JOSHUA TREE SOLAR FARM
CONDITIONAL USE PERMIT
AIR QUALITY AND GREENHOUSE GAS
TECHNICAL REPORT

Prepared for:

JOSHUA TREE SOLAR FARM, LLC

Prepared by:

Tetra Tech EC, Inc.
17885 Von Karman Avenue, Site 500
Irvine, CA 92614-6213

August 2012

TABLE OF CONTENTS

Section **Page**

1.0 EXECUTIVE SUMMARY 1
2.0 DESCRIPTION OF PROJECT 2
2.1 Project Location 2
2.2 Project Description 2
3.0 EXISTING AND AFFECTED ENVIRONMENT 4
3.1 Existing Air Quality Standards 4
3.2 Climate 7
3.3 Air Pollutant Constituents and Attainment Status 7
3.4 Greenhouse Gases 10
4.0 METHODOLOGY AND THRESHOLDS 14
4.1 Threshold of Significance 14
4.2 Direct Impacts 15
4.2.1 Criteria Air Emissions 15
4.2.2 Greenhouse Gas Emissions 17
4.2.3 Health Risk 17
4.3 Indirect Impacts on Air Quality 20
4.4 Cumulative Impacts 20
4.5 Conformity Impacts 21
5.0 DIRECT IMPACTS ON AIR QUALITY 24
5.1 Direct Impacts from Project Construction and Operation 24
5.2 Greenhouse Gas Emission Impacts 27
6.0 MITIGATION MEASURES 34
7.0 REFERENCES 35

TABLE OF CONTENTS (CONT.)

List of Tables

Table 1. State and Federal Air Quality Standards 5
Table 2. Criteria Pollutants Attainment Status in the Mojave Desert Air Basin 8
Table 3. Significant Emission Thresholds 15
Table 4. Construction Emissions 31
Table 5. Operation Emissions 32
Table 6. Health Risk Assessment 33

List of Figures

Figure 1. Project Location 3
Figure 2. Construction Schedule 22
Figure 3. Construction Equipment 23

Appendices

A. URBEMIS MODEL OUTPUTS
B. HEALTH RISK MODEL OUTPUTS

ABBREVIATION

AC	Alternating current
MDAQMD	Mojave Desert Air Quality Management District
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards (CAAQS)
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
CH_4	Methane
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DC	Direct current
EPA	Environmental Protection Agency
H_2S	Hydrogen sulfide
HI	Hazardous Index
HARP	CARB Hotspots Analysis and Reporting Program
HRA	Health Risk Assessment
HFCs	Hydrofluorocarbons
kV	Kilovolt
MDAB	Mojave Desert Air Basin
mph	Miles per hour
MW	Megawatts
NAAQS	National Ambient Air Quality Standards
N_2O	Nitrous oxide
NO_2	Nitrogen dioxide
O&M	Operations and maintenance
O_3	Ozone
OEHHA	Office of Environmental Health and Hazard Assessment
OPR	Office of Planning and Research
Pb	Lead
PFCs	Perfluorocarbons
PM_{10}	Fine particulate matter equal to or less than 10 microns
$PM_{2.5}$	Fine particulate matter equal to or less than 2.5 microns
PV	Photovoltaic
ROG	Reactive organic gases
RPS	Renewable Portfolio Standards
SCAB	South Coast Air Basin
SCE	Southern California Edison
SF_6	Sulfur hexafluoride

SO_2	Sulfur dioxide
TACs	Toxic air contaminants
TSP	Total suspended particulate

SECTION 1

EXECUTIVE SUMMARY

Joshua Tree Solar Farm, LLC proposes to develop, own, and operate a 20 megawatt (MW) photovoltaic (PV) solar energy project in the County of San Bernardino, California. The Joshua Tree Solar Farm (Project) will consist of a solar energy generating facility that employs photovoltaic (PV) panels to convert sunlight directly into electrical energy without using heat transfer fluid or cooling water.

The Project facility will operate year-round, producing electric power during daytime hours. Construction is expected to occur for five months, during the 2013 and 2014 period.

The air quality analysis presented in this report analyzes the potential air quality impacts associated with the proposed Project. A health risk assessment (HRA) was performed to determine the health effects from construction activities to the nearest sensitive receptors. Since the Project site is located within the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD), the air quality analysis follows the MDAQMD's guidelines.

This report also provides estimates of greenhouse gas (GHG) emissions from the combustion of fossil fuels, primarily from construction of the proposed facility and demonstrates that operating the facility will reduce GHG emissions. In addition, the analysis addresses the effects of GHGs on climate change.

In summary, the air quality and GHG analysis concludes that emissions during short-term construction and during long-term operation of the project do not exceed the significant thresholds established by the MDAQMD. The HRA concludes that the construction activities would result in a less-than-significant impact. The project does not pose significant adverse impacts on local air quality or global climate change.

This report has been prepared to support an environmental review required by the California Environmental Quality Act (CEQA), with San Bernardino County as lead CEQA agency for the Project. The California Air Resources Board (CARB), MDAQMD, and San Bernardino County methods, standards, and significance thresholds used in this analysis are considered appropriate for determining impacts.

SECTION 2

DESCRIPTION OF PROJECT

2.1 Project Location

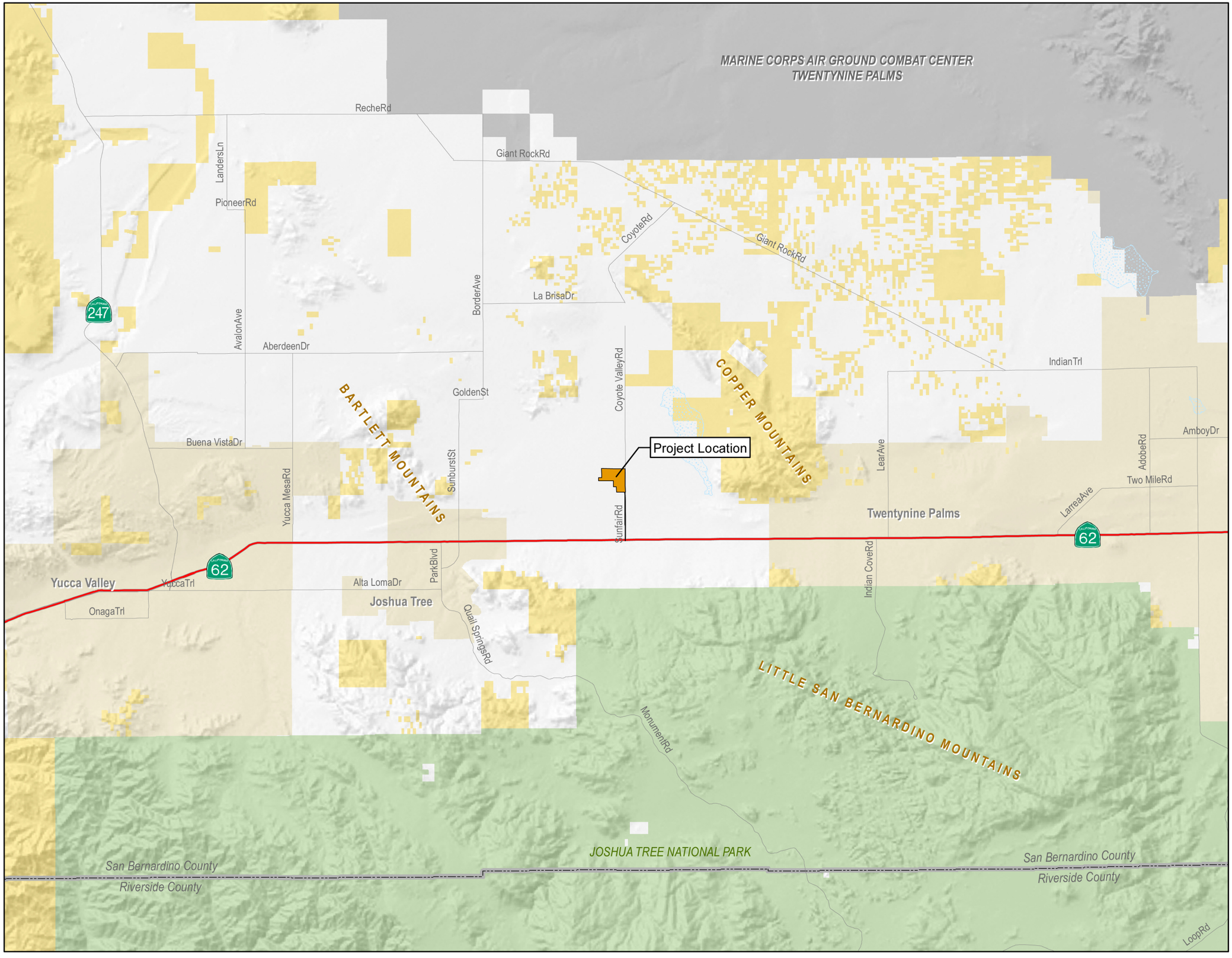
The proposed Project is located on 115 acres of a recently de-activated private airport in an unincorporated section of San Bernardino County. The site is located approximately 3.5 miles east of the City of Joshua Tree and 1.3 miles north of Twentynine Palms Highway. The Project site is accessed through Sunfair Road, a paved county road that runs along the eastern border of the site. The Project is bordered by Two Mile Road to the south, unpaved Fourth Street to the north, and unmaintained vacant land to the south and west. Figure 1 presents the Project location.

2.2 Project Description

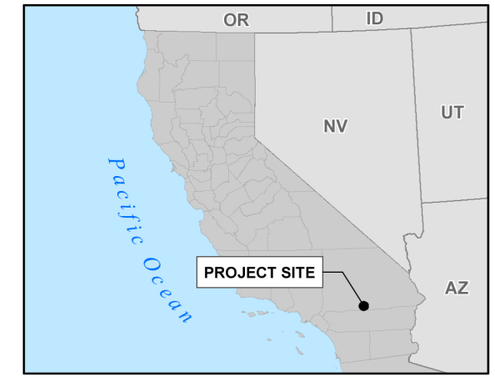
The proposed solar energy generating facility will produce approximately 20 megawatts (MW) of electricity and will consist of the following components:

- PV modules
- PV module mounting system
- Electrical boxes (e.g., combiner boxes, electrical disconnects)
- Electrical inverters and transformers
- Electrical AC collection system, including switchgear
- Data monitoring equipment
- Access roads and chain link perimeter security fencing
- Southern California Edison (SCE) generation line extension

File Path: P:\GIS\Projects\4448_BP_Solar\ArcGIS\1_Regional.mxd



JOSHUA TREE SOLAR FARM
SAN BERNARDINO COUNTY, CA



Legend

- Project site

Transportation Features

- State Highway
- Major Roads
- County Boundary
- Dry Lakes

Land Jurisdiction

- Bureau of Land Management
- Miitary
- National Park Service
- Towns/Places

0 1 2 4
Miles

FIGURE 1
PROJECT LOCATION MAP

TETRA TECH EC, INC.

SECTION 3

EXISTING AND AFFECTED ENVIRONMENT

3.1 Existing Air Quality Standards

In California, local responsibility for air quality is assigned to air quality management districts and air pollution control districts. The Project site is located in the northern portion of San Bernardino County, which is under the jurisdiction of the MDAQMD. The impact analysis contained in this section was prepared according to the methodologies provided by the MDAQMD [Ref. 1].

The Federal Clean Air Act (42 USC Section 7401-7671q; CAA) requires the adoption of the National Ambient Air Quality Standards (NAAQS) to protect the public health and welfare from the effects of air pollution. Current standards include Sulfur Dioxide (SO_2), Carbon Monoxide (CO), Nitrogen Dioxide (NO_2), Ozone (O_3), Fine Particulate Matter equal to or less than 10 microns (PM_{10}), Fine Particulate Matter equal to or less than 2.5 microns ($PM_{2.5}$), and Lead (Pb). These pollutants are designated criteria pollutants.

CARB has established additional state standards for the criteria pollutants that are generally more restrictive than the NAAQS. Federal and state standards are shown in Table 1, *State and Federal Air Quality Standards*.

Table 1. State and Federal Air Quality Standards

Pollutant	Averaging Time	California Standards [a]		Federal Standards [b]		
		Concentration [c]	Method [d]	Primary [c,e]	Secondary [c,f]	Method [g]
Ozone (O^3)	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.075 ppm (147 µg/m^3)		
Respirable Particulate Matter (PM_{10})	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter ($PM_{2.5}$)	24 Hour	No Separate State Standard		35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	15 µg/m^3		
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m^3)	None	Non-Dispersive Infrared Photometry (NDIR)
	1 Hour	20 ppm (23 mg/m^3)		35 ppm (40 mg/m^3)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	—
Nitrogen Dioxide (NO_2)	Annual Arithmetic Mean	0.03 ppm (56 µg/m^3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m^3)	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m^3)		0.10 ppm	None	
Sulfur Dioxide (SO_2)	24 Hour	0.04 ppm (105 µg/m^3)	Ultraviolet Fluorescence	0.14 ppm (365 µg/m^3)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)[9]
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	1 Hour	0.25 ppm (655 µg/m^3)		0.075 ppm (196 µg/m^3)	—	
Lead (Pb) [h]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	—
	Calendar Quarter	—		1.5 µg/m^3	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average	—		0.15 µg/m^3		

Pollutant	Averaging Time	California Standards [a]		Federal Standards [b]		
		Concentration [c]	Method [d]	Primary [c,e]	Secondary [c,f]	Method [g]
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per kilometer — visibility of ten miles or more (0.07 — 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent. Method: Beta Attenuation and Transmittance through Filter Tape.		**No Federal Standards**		
Sulfates (SO_4)	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride [h]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

[a] *California standards for ozone, carbon monoxide (except Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, suspended particulate matter (PM_{10}, and $PM_{2.5}$) and visibility reducing particles, are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.*

[b] *National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest eight-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m^3 is equal to or less than one. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the USEPA for further clarification and current federal policies.*

[c] *Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. The torr (symbol: Torr) is a non-SI unit of pressure with the ratio of 760 to 1 standard atmosphere, chosen to be roughly equal to the fluid pressure exerted by a millimeter of mercury, i.e., a pressure of 1 Torr is approximately equal to one millimeter of mercury. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.*

[d] *Any equivalent procedure which can be shown to the satisfaction of the California Air Resources Board (CARB) to give equivalent results at or near the level of the air quality standard may be used.*

[e] *National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect public health.*

[f] *National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.*

[g] *Reference method as described by the EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the EPA.*

[h] *CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects that are determined. These actions allow implementing control measures at levels below the ambient concentrations specified for these pollutants.*

Source: California Air Resources Board (http://www.arb.ca.gov/research/aaqs/aaqs2.pdf, updated 09/08/10), and U.S. Environmental Protection Agency (http://www.epa.gov/air/criteria.html and http://www.epa.gov/air/lead/pdfs/20081015_pb_naaqs_final.pdf [see "FR Notices" at http://www.epa.gov/ttn/naaqs/standards/pb/s_pb_index.html], accessed March 2012]

3.2 Climate

Air quality in the planning area is not only affected by various emission sources (mobile, industry, etc.) but also by atmospheric conditions such as wind speed, wind direction, temperature, and rainfall, etc.

The Mojave Desert Air Basin (MDAB) is an assemblage of mountain ranges interspersed with long broad valleys that often contain dry lakes. Many of the lower mountains that dot the vast terrain rise from 1,000 to 4,000 feet above the valley floor. Prevailing winds in the MDAB are from the west and southwest. These prevailing winds are due to the proximity of the MDAB to coastal and central regions and the blocking nature of the Sierra Nevada Mountains to the north; air masses pushed onshore in southern California by differential heating are channeled through the MDAB. The MDAB is separated from the southern California coastal and central California valley regions by mountains (highest elevation approximately 10,000 feet), whose passes form the main channels for these air masses. The Mojave Desert is bordered on the southwest by the San Bernardino Mountains, separated from the San Gabriel Mountains by the Cajon Pass (4,200 feet).

The MDAB lies in the semi-permanent high-pressure zone of the eastern Pacific. As a result, the climate is mild, tempered by cool sea breezes. The usually mild climatological pattern is interrupted infrequently by periods of extremely hot weather, winter storms, or Santa Ana winds. The extent and severity of the air pollution problem in the MDAB is a function of the area's natural physical characteristics (weather and topography), as well as man-made influences (development patterns and lifestyle). During the summer the MDAB is generally influenced by a Pacific Subtropical High cell that sits off the coast, inhibiting cloud formation and encouraging daytime solar heating. Most desert moisture arrives from infrequent warm, moist, and unstable air masses from the south. The MDAB averages between three and seven inches of precipitation per year (from 16 to 30 days with at least 0.01 inches of precipitation). The MDAB is classified as a dry-hot desert climate (BWh), with portions classified as dry-very hot desert (BWhh), to indicate at least three months have maximum average temperatures over 100.4° F.

3.3 Air Pollutant Constituents and Attainment Status

A state or region is given the status of "attainment" or "unclassified" if either the federal or state ambient air quality standards have not been exceeded. A status of "nonattainment" for particular criteria pollutants is assigned if the ambient air quality standard for that pollutant has been exceeded. Once designated as nonattainment, attainment status may be achieved after three years of data showing non-exceedance of the standard. When an area is reclassified from nonattainment to attainment, it is designated as a maintenance area, which requires establishing and enforcing a plan to maintain attainment with the standard.

The MDAB has been designated as a non-attainment area as it does not meet the NAAQS for certain pollutants regulated under the Federal Clean Air Act (CAA). The MDAB fails to meet national standards for O_3, PM_{10} and $PM_{2.5}$ and therefore is considered a Federal "non-attainment" area for these pollutants [Ref. 2].

Table 2 lists criteria air pollutants and their attainment status in the MDAB.

Table 2. Criteria Pollutants Attainment Status in the Mojave Desert Air Basin

Air Pollutants	State	Federal
Ozone (1-Hour)	Nonattainment, classified Moderate	Non-attainment; classified Severe17
Ozone (8-Hour)	-	Non-attainment (expected)
$PM_{2.5}$	Unclassified/attainment	Non-attainment; classified moderate
PM_{10}	Non-attainment	Non-attainment; classified Moderate
NO_2	Attainment/unclassified	Attainment/unclassified
CO	Attainment	Attainment
SO_2	Attainment/unclassified	Attainment/unclassified
Lead	Attainment	Attainment
Particulate Sulfate	Unclassified	-
Hydrogen Sulfide	Unclassified	-
Visibility Reducing Particles	Unclassified	-

Source: MDAQMD, 2011.

The MDAQMD has prepared a 2010 Annual Monitoring Network Plan to assess the extent of air pollution, ensure compliance with national legislation, and provide data for air quality modeling. The closest monitoring stations within this network to the Project area are from the CARB Joshua Tree-National Monument Monitoring Station and the Victorville- 14306 Park Avenue Monitoring Station. The most recent ambient air quality data with data available from these representative monitoring stations encompass the years 2009 to 2011, and indicate the following pollutant trends [Ref. 3]:

Ozone

Ozone (O_3) is a problematic air contaminant in the MDAB because a significant portion of the ozone (and ozone precursors) in the basin is transported from the heavily populated South Coast Air Basin (SCAB). Maximum ozone concentrations in the SCAB and in the MDAB usually are recorded during summer months.

The 2011 measured data at the Joshua Tree-National Monument monitoring station shows that state air quality standards of 1-hour ozone and 8-hour ozone exceeded annual thresholds on 21 days respectively in that year. The federal air quality standard for 8-hour ozone was exceeded on 56 days in that year. Under the state standards, the MDAB is classified as a nonattainment area for ozone.

Nitrogen Dioxide

The monitoring data shows that the annual average NO_2 concentration in the MDAB has been within the federal standards for the last three years. The highest annual average concentration has remained nearly constant at 0.015 micrograms per cubic meter. The 2011 measured data at the Victorville- 14306 Park Avenue monitoring station shows that the state standard for nitrogen dioxide standard was not exceeded in that year. The MDAB is in attainment status under California and federal standards.

Carbon Monoxide

Carbon monoxide (CO) is a product of inefficient combustion, principally from automobiles and other mobile sources of pollution. In many areas of California, CO emissions from sources such as wood-burning stoves and fireplaces also can be measurable contributors during cold-weather months. Industrial sources of pollution generally contribute less than 10 percent of ambient CO levels. Peak CO levels occur typically during winter months because of a combination of seasonal contributions from home heating devices and stagnant weather conditions. CO reduces the oxygen-carrying capacity of the blood and in high concentrations can cause death. At lower concentrations, people exposed experience dizziness and headaches.

The 2011 measured data at the Victorville- 14306 Park Avenue monitoring station shows that the federal and state standard for CO was not exceeded that year. The MDAB is an attainment area for CO for purposes of state and federal air quality planning.

Sulfur Dioxide

Sulfur Dioxide (SO_2) is produced when any sulfur-containing fuel is burned. Chemical plants that treat or refine sulfur or sulfur-containing chemicals also emit SO_2. Because of the complexity of the chemical reactions that convert SO_2 to other compounds (such as sulfates), peak concentrations of SO_2 occur at different times of the year in different parts of the state, depending on local fuel characteristics, weather, and topography. SO_2 can cause bronchia constriction and may aggravate respiratory diseases. In moist environments, SO_2 may combine with water to form sulfuric acid, a component of acid deposition. SO_2 data monitored at the Victorville- 14306 Park Avenue monitoring location shows that the federal and state standards were not exceeded. The MDAB is an attainment area of the state and federal governments for SO_2 standards.

Fine Particulates (PM_{10}**,** $PM_{2.5}$**)**

Particulate matter in the air is composed of windblown fugitive dust; particles emitted from combustion sources (usually carbon particles); and organic, sulfate, and nitrate aerosols formed in the air from emitted hydrocarbons, sulfur oxides, and oxides of nitrogen. In 1984, CARB adopted standards for fine particulate (PM_{10} - particulate matter of less than 10 microns), and phased out the total suspended particulate (TSP) standards used up to that time. PM_{10} standards were substituted for TSP standards because PM_{10} corresponds to the size range of inhalable particulate related to human health. In 1987, the Environmental Protection Agency (EPA) also replaced national TSP standards with PM_{10} standards. In July 1997, the EPA adopted new standards for $PM_{2.5}$.

Particulates are a public health and welfare concern for several reasons. Particulates may be intrinsically toxic because of their inherent chemical and/or physical characteristics. Particulate matter may interfere with one or more of the mechanisms that normally clear the respiratory tract. Finally, fine particulates, which are easily carried deep into the lungs, may act as carriers of absorbed toxic substances. Thus elevated particulate concentrations may exacerbate pre-existing respiratory diseases such as bronchitis. Particulate matter, especially fine particulate, also interferes with visibility. The MDAB is a nonattainment area of the state's PM_{10} standards. The 2011 measured data at the Victorville- 14306 Park Avenue monitoring station shows an annual average of 20.2 micrograms per cubic meter in 2011 and zero days above the 24-hour PM_{10} state and federal standards for 2011. For $PM_{2.5,}$ an annual average was not recorded in 2011, but shows no exceedances above the 24-hour $PM_{2.5}$ federal standard in that year.

Lead

Lead is found in old paints and coatings, plumbing, and various other materials. Once in the blood stream, lead can cause damage to the brain, nervous system, and other body systems. Children are highly susceptible to the effects of lead. The MDAB is an attainment area for the federal and State AAQS for lead.

3.4 Greenhouse Gases

Certain gases in the Earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. A GHG is any gas in the atmosphere that absorbs infrared radiation. As solar radiation enters the earth's atmosphere, a portion of the radiation is absorbed by the earth's surface, and a portion is reflected back through the atmosphere into space. The absorbed radiation is eventually emitted from the earth into the atmosphere, not as solar radiation, but as infrared radiation. Most solar radiation passes through GHGs; infrared radiation is selectively absorbed or "trapped" by GHGs as heat and then reradiated back toward the earth's surface, warming the lower atmosphere and the earth's surface. This phenomenon, known as the "greenhouse effect," is beneficial for maintaining a habitable climate on the earth. As the atmospheric concentrations of GHGs rise, however, the average temperature of the lower atmosphere gradually increases, thereby increasing the potential for indirect effects

such as a decrease in precipitation as snow, a rise in sea level, and changes to plant and animal species and habitat.

GHGs are emitted by natural processes and human activities. Water vapor is the most abundant and variable GHG in the atmosphere and is not considered a pollutant. The main source of water vapor is evaporation from the oceans (approximately 85 percent); other sources include evaporation from other water bodies, sublimation (change from solid to gas) from ice and snow, and transpiration from plant leaves. Carbon dioxide (CO_2) also is a naturally emitted GHG.

Natural GHG sources include the following: decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing.

GHGs also are emitted from human activities, including industrial/manufacturing, utilities, transportation, residential, and agricultural activities. Prominent GHGs contributing to the greenhouse effect are CO_2, methane (CH_4), nitrous oxide (N_2O), and fluorinated compounds. Ozone (O_3) is a GHG; O_3 in the lower atmosphere, however, is relatively short-lived and therefore is not global in nature. Emissions of CO_2 are by-products of fossil fuel combustion. CH_4, a highly potent GHG, results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) largely associated with agricultural practices and landfills. CO_2 is sequestered through photosynthesis and absorption from ocean uptake and vegetation. More CO_2 is currently emitted into the atmosphere than is sequestered by ocean uptake and vegetation.

Human-caused emissions of these GHGs, which exceed natural ambient concentrations, intensify the greenhouse effect and have led to a trend of unnatural warming of the earth's climate, known as global climate change or global warming. Explaining global climate change during the past 50 years cogently is extremely unlikely without the contribution from human activities [Ref. 4]. Therefore, GHGs are global pollutants, unlike criteria air pollutants and TACs, which are pollutants of regional and local concern.

Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one year to several thousand years). GHGs persist in the atmosphere long enough to be dispersed globally. Although the exact lifetime of any particular GHG molecule depends on multiple variables and cannot be pinpointed, scientific evidence reveals that more CO_2 is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, and other forms of sequestration. Of the total annual human-caused CO_2 emissions, approximately 54 percent is sequestered through ocean uptake, uptake by northern hemisphere forest regrowth, and other terrestrial sinks within a year, whereas the remaining 46 percent of human-caused CO_2 emissions remains stored in the atmosphere [Ref. 5]. The quantity of GHGs that it takes to ultimately result in climate change is not known precisely; suffice to say that the quantity is enormous, and no single project would be expected to contribute measurably to a noticeable incremental change in the global average temperature, or to global, local, or microclimate.

While climate change has been a concern since at least 1988, the efforts devoted to GHG emissions reduction and climate change policy have increased dramatically in recent years. In 2002, California passed Assembly Bill (AB) 1493, which requires CARB to develop and implement regulations to reduce automobile and light truck GHG emissions beginning with the 2009 model year. In June 2005, Executive Order S-3-05 was signed to reduce California's GHG emissions to: (1) 2000 levels by 2010; (2) 1990 levels by the 2020; and (3) 80 percent below the 1990 levels by the year 2050. In 2006, this goal was further reinforced with the passage of AB32, the Global Warming Solutions Act of 2006. AB 32 sets the same overall GHG emissions reduction goals while further mandating that CARB create a plan, which includes market mechanisms, and implement rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." Executive Order S-20-06 further directs state agencies to begin implementing AB 32, including recommendations of the state's Climate Action Team. Senate Bill 97 acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA.

CEQA requires that lead agencies consider the reasonably foreseeable adverse environmental effects of projects they are considering for approval. GHG emissions can affect the environment adversely because they contribute, cumulatively, to global climate change. In turn, global climate change could result in rising sea levels, potentially inundating low-lying areas; affect rain and snowfall, leading to changes in water supply; and affect habitats, leading to adverse effects on biological and other resources. Thus, GHG emissions require consideration in CEQA documents.

Federal Legislation

The U.S. Supreme Court ruled on April 2, 2007, that CO_2 is an air pollutant as defined under the CAA, and that the EPA has the authority to regulate emissions of GHGs. Nevertheless, there are no federal regulations or policies regarding GHG emissions applicable to the Project at the time of this writing. Responding to the mounting issue of climate change, the EPA has taken actions to regulate, monitor, and potentially reduce GHG emissions.

Mandatory Greenhouse Gas Reporting Rule

On September 22, 2009, the EPA issued a final rule for mandatory reporting of GHGs from large GHG emissions sources in the United States. In general, this national reporting requirement will provide the EPA with accurate and timely GHG emissions data from facilities that emit 25,000 metric tons or more of CO_2 per year. This publically available data will allow the reporters to track their own emissions, compare them to similar facilities, and help identify cost effective opportunities to reduce emissions in the future. Reporting is at the facility level, except that certain suppliers of fossil fuels and industrial GHGs along with vehicle and engine manufacturers will report at the corporate level. An estimated 85 percent of the total U.S. GHG emissions, from approximately 10,000 facilities, are covered by this final rule.

Endangerment and Cause or Contribute Findings for Greenhouse Gases under the Clean Air Act

On December 7, 2009, the EPA adopted its Proposed Endangerment and Cause or Contribute Findings for Greenhouse Gases under the CAA (Endangerment Finding). The Endangerment Finding is based on Section 202(a) of the CAA, which states that the Administrator (of EPA) should regulate and develop standards for "emission[s] of air pollution from any class of classes of new motor vehicles or new motor vehicle engines, which in [its] judgment cause, or contribute to, air pollution which may reasonably be anticipated to endanger public health or welfare." The rule addresses Section 202(a) in two distinct findings. The first addresses whether the concentrations of the six key GHGs (carbon dioxide [CO_2], methane [CH_4], nitrous oxide [N_2O], hydrofluorocarbons [HFCs], perfluorocarbons [PFCs], and sulfur hexafluoride [SF_6]) in the atmosphere threaten the health and welfare of current and future generations. The second addresses whether the combined emissions of GHGs from new motor vehicles and motor vehicle engines contribute to atmospheric concentrations of GHGs and therefore the threat of climate change.

The Administrator found that atmospheric concentrations of GHGs endanger the public health and welfare within the meaning of Section 202(a) of the CAA. The evidence supporting this finding consists of human activity resulting in "high atmospheric levels" of GHG emissions, which are most likely responsible for increases in average temperatures and other climatic changes. Furthermore, the observed and projected results of climate change (e.g., higher likelihood of heat waves, wild fires, droughts, sea level rise, and higher intensity storms) are a threat to the public health and welfare. Therefore, GHGs were found to endanger the public health and welfare of current and future generations.

The Administrator also found that GHG emissions from new motor vehicles and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. EPA's final findings respond to the 2007 U.S. Supreme Court decision that GHGs fit within the CAA definition of air pollutants. The findings do not in and of themselves impose any emission reduction requirements but rather allow the EPA to define the GHG standards proposed earlier in 2009 for new light-duty vehicles as part of the joint rulemaking with the Department of Transportation.

CARB is the agency responsible for coordinating and overseeing state and local air pollution control programs in California and for implementing the California Clean Air Act (CCAA), which was adopted in 1988. Various statewide and local initiatives to reduce the state's contribution to GHG emissions have raised awareness that, even though the various contributors to and consequences of global climate change are not yet fully understood, global climate change is underway, and there is a real potential for severe adverse environmental, social, and economic effects in the long term.

SECTION 4

METHODOLOGY AND THRESHOLDS

This section describes the methodologies used to determine the air quality impacts associated with the proposed Project.

MDAQMD recommends that air quality analysis for a proposed project shall include direct impacts, indirect impacts, cumulative impacts, and conformity impacts.

Direct impacts result from Project construction and operation activities on air quality. Indirect impacts result from air quality changes that would not occur without the Projectproject, e.g. building and operating a retail establishment nearby to support the Project. Cumulative impacts are the combined effect on air quality from the Project'soperation and other emissions sources in the MDAB. Conformity impacts determine whether the Project's operation complies with all applicable MDAQMD's rules and regulations.

4.1 Threshold of Significance

To meet federal requirements, impact significance is related to conformance with the EPA-approved SIP and with NAAQS. Air quality impacts would be significant if they exceed these standards or contribute to non-conformance. MDAQMD has published thresholds of significance for air quality and global climate change.

A project has significant air quality impact, if the following occurs:

1. Generates total emissions exceeding the MDAQMD significant thresholds shown in Table 3, *Significant Emission Thresholds*; and/or

2. Generates a violation of any ambient air quality standard when added to the local air quality background; and/or

3. Does not conform with the applicable attainment or maintenance plan(s); and/or

4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1.

A significant project must incorporate mitigation sufficient to reduce its impact to a level that is not significant. A project that cannot be mitigated to a level that is not significant must incorporate all feasible mitigation.

Table 3. Significant Emission Thresholds

Criteria Pollutant	Annual Threshold (tons)	Daily Threshold (pounds)
Carbon Monoxide (CO)	100	548
Oxides of Nitrogen (NOx)	25	137
Reactive Organic Gases (ROG)	25	137
Oxides of Sulfur (SOx)	25	137
Particulate Matter (PM_{10})	15	82
Particulate Matter ($PM_{2.5}$)	15	82
Hydrogen Sulfide (H_2S)	10	54
Lead	0.6	3
Greenhouse Gases (CO_2e)	100,000	548,000

Source: MDAQMD, 2011

4.2 Direct Impacts

4.2.1 Criteria Air Emissions

Air quality and global climate change impacts associated with the proposed Project are related to emissions that would occur during construction and subsequent operation of the proposed Project. The principal sources of pollutants during construction would be earth-moving activities, construction equipment, trucks bringing materials to the site, and construction crew commuting vehicles. The sources of pollutants during Project operations would be limited to the vehicles and equipment used by the operations and maintenance staff. There are numerous air quality modeling tools available to assess air quality impacts of the Project. Emissions during construction and operation were estimated based on the air emission modeling software package, CARB's URBEMIS. [Ref. 6] The model contains data specific to each California air basin.

<u>Construction</u>

The construction process will be conducted in phases. The URBEMIS model divides the construction processes into phases, including mass site grading, fine site grading, fencing/infrastructure construction (trenching, transmission line construction, paving), and PV installation. These model settings can be modified to fit applicable features of a specific project. Construction of the Project will take five to six months during the 2013 to 2014 period. For purposes of this analysis, a conservative construction schedule was assumed to occur for five months. This timeframe is important since construction emissions are related directly to the intensity of construction activities (emissions increase as the overall amount of construction activity increases). Actual construction may proceed at a less intensive pace, which would result

in lower daily emissions. For this Project, the following construction phases are assumed:

Phase 1: Demolition;

Phase 2: Mass Site Grading;

Phase 3: Fencing/Infrastructure Construction; and

Phase 4: PV Installation.

Each construction phase has the potential to generate the following: (1) fugitive dust emissions resulting from soil disturbance activity; (2) emissions of air pollutants from fuel combustion in construction equipment; and (3) emissions of air pollutants from fuel combustion in vehicles used for worker commute and material hauling and construction debris disposal. Joshua Tree Solar Farm, LLC is committed to implementing "Best Practices" during all construction phases of the Project to further reduce emissions. Figure 2 shows the construction schedule and Figure 3 shows the construction equipment assumed for this analysis.

During construction, the proposed Project would be subject to MDAQMD Rule 403 (Fugitive Dust). The purpose of Rule 403 is to reduce man-made fugitive dust. Rule 403 requires implementing control measures to prevent, reduce, or mitigate fugitive dust emissions and includes a performance standard that prohibits visible emissions from crossing any property line [Ref. 7]. Dust control measures, such as water application or chemical stabilizers on dry soil, and reducing vehicle travel on unpaved roads, are standard mitigation techniques. The Project construction will be required to comply with Rule 403. Implementing the dust suppression techniques specified in Rule 403 can reduce the fugitive dust generation (and thus the PM_{10} component) by 50 percent or more. Therefore, estimating fugitive dust emissions during Project construction is based on compliance with MDAQMD Rule 403 requirements for fugitive dust suppression. Moreover, to further reduce dust emissions during construction, grading shall be limited to no more than three acres per day.

Operations

During operation, the Project does not require the types of equipment that emit a large amount of air pollutants. The sources of pollutants would be limited to the vehicles used by the operations and maintenance staff.

The URBEMIS software was used to compile the vehicle emissions during long-term Project operations. In calculating mobile source emissions, the URBEMIS assumptions were applied to arrive at the annual vehicle miles traveled (VMT).

The proposed Project will be subject to MDAQMD's Regulation II (Permits) and Regulation XIII (New Source Review). These regulations ensure that all equipment with the potential to emit

air pollutants (including air toxics and hazardous air pollutants) at the Project site would be subject to the MDAQMD's review and approval before installation [Ref. 8].

4.2.2 Greenhouse Gas Emissions

For this Project, the major source of GHG is the combustion of fuel in construction equipment, in vehicles used to haul materials, and in vehicles used by workers commuting to/from the site.

There are three types of GHG from fuel combustion, including carbon dioxide (CO_2), methane (CH_4) and nitrous oxide (N_2O). GHG emissions are presented as carbon dioxide equivalents (CO_2e). CO_2e is computed based on global warming equivalence. The CH_4 global warming equivalence is 21 times that of CO_2, and the N_2O global warming equivalence is 310 times that of CO_2.

Mathematically, the CO_{2e} can be represented by the following equation:

CO_2e Emissions = CO_2 Emissions + 21 x CH_4 Emissions + 310 x N_2O Emissions

The URBEMIS model was used to estimate the GHG emissions during the construction phase of the proposed Project. Based on the construction schedule, types and quantities of construction equipment, and haul trucks, etc., the maximum CO_2e emissions were estimated.

The URBEMIS model provides a CO_2 profile only and does not quantify CO_2e, CH_4 and N_2O emissions. The analysis assumed that the CO_2 emissions are CO_2e. For typical diesel-fueled combustion equipment used in construction activities, the emissions factors adjusted with global warming equivalence are the following:

1. CO_2 emission factors are 22.4 pounds of CO_2e per gallon consumed;
2. CH_4 emission factors are 0.065 pounds of CO_2e per gallon consumed; and
3. N_2O emission factors are 0.068 pounds of CO_2e per gallon consumed.

As shown in these emission factors, the CO_2 profile is 99 percent of the total GHG emissions generated in combustion equipment. Therefore, the CO_2 emissions were assumed to be equivalent to the CO_2e emissions levels.

4.2.3 Health Risk

During construction, toxic emissions are generated mainly from fuel combustion in the construction equipment. To determine the health impacts of these toxic emissions to sensitive receptors, a health risk assessment (HRA) was performed using CARB's HARP model.

A HRA is an estimate of the probability that adverse health effects could occur due to exposure to toxic pollutants. A facility's air emissions, stack information, operation schedule, local weather conditions, chemical dose-response data, etc. are entered into a computer model to

produce an estimate of the health risks to nearby sensitive receptors. Sensitive receptors are populations that are more susceptible to the effects of air pollution than are the population at large. While the ambient air quality standards are designed to protect public health and are generally regarded as conservative for healthy adults, there is greater concern to protect adults who are ill or have long-term respiratory problems, and young children whose lungs are not fully developed. According to CARB, sensitive receptors include children less than 14 years of age, the elderly more than 65 years of age, athletes, and people with cardiovascular and chronic respiratory diseases. The SCAQMD identify the following as locations that may contain a high concentration of sensitive receptors; long-term health care facilities, rehabilitation centers, convalescent centers, retirement homes, residences, schools, playgrounds, childcare centers, and athletic facilities. The closest sensitive receptor to the Project is a single family residence located approximately 250 feet from the southeast corner of the Project site, on the east side of Coyote Valley Road and south of 2 Mile Road. A HRA is performed in three steps: hazard identification, exposure assessment, and risk characterization.

Hazard Identification

Hazard identification refers to identifying substances as carcinogens, reproductive toxins, chronic toxins, or acute toxins, or identifying a type of exposure as hazardous. The toxic air contaminants (TACs) used in the HRA includes diesel particulate matter (DPM) for cancer and chronic assessment and VOC speciation for acute assessment. DPM are exhausts of diesel fuel combustion. VOCs are also exhausts from diesel engines and gasoline vehicles, and some of the VOC's speciation chemicals are considered as TACs. The CARB speciation profiles were used to determine these TACs emissions. [Ref. 9]

Exposure Assessment

Exposure assessment identifies and quantifies all routes of human exposure to substances of concern. The Hotspots Analysis and Reporting Program (HARP) model issued by CARB was used for estimating offsite concentrations of TACs. Based on land use surrounding the proposed Project and EPA guidelines, a rural profile was assumed. Construction activities were modeled as area sources placed over the area of Project site. Appendix B provides the HARP and health risk modeling runs.

Risk Characterization

Risk characterization is the final step of the HRA. It quantifies the human health risk based on the exposure assessment and dose-response relationships (cancer potency factors and reference exposure levels). In this assessment, three types of human health effects were considered: (1) cancer; (2) chronic effects; and (3) acute effects. Health risks including cancer, chronic, and acute risks are calculated based on the Office of Environmental Health and Hazard Assessment (OEHHA) guidelines. Farm diesel equipment source profile was used to calculate DPM emissions, while the gasoline source profile was used to calculate the gasoline vehicle emissions of TACs. Peak daily VOC and diesel PM emissions from URBEMIS, together with the

TAC speciation were calculated to formulate the emission rates for input into HARP. Cancer risk estimates from one year construction activity were converted to the 70-year lifetime exposure. Speciation profiles and HARP Output files are included in Appendix B.

Following is a summary of the OEHHA method to determine the cancer, chronic and acute health risk:

Cancer Risk

The cancer risks were calculated as the individual excess lifetime cancer risk (i.e., the probability that an individual may develop cancer from a lifetime exposure to the chemicals of concern). There are different pathways that a toxicant can enter a human body. Gaseous toxicants can enter a human body through the inhalation pathway. Gaseous toxicants also can be deposited on soil, surface water, or plants, which then can enter a human body through ingestion and dermal pathways. Semi-volatile and metal toxicants can enter the body through inhalation, ingestion, and dermal pathways.

For inhalation pathway, the cancer risk is computed using the following equation:

$$CRinh = (GLC \times CP \times BR \times EF \times ED \times 10^{-6}) / AT \qquad \text{Eq. 1}$$

Where:

CRinh = Cancer Risk through inhalation
GLC = Annual Average Ground-level concentration (from air dispersion model)
CP = Cancer Potency factor
BR = Daily Breathing Rate
EF = Exposure frequency
ED = Exposure Duration
AT = Average Time Period

For the proposed Project, contribution from non-inhalation pathways would not contribute to the overall risk such that the total risk would be above 10 in one million once the multi-pathway risks are added, thus non-inhalation pathway risk estimates are negligible.

Chronic Risk

The potential for long-term chronic health effects is quantified by comparing the predicted level of exposure to a reference exposure level (REL). This ratio of predicted exposure to reference exposure is referred to as a chronic hazard index (HIc). HIc is calculated by summing the ratios of each toxic substance over its REL. The equation for estimating HIc is as follows:

$$HIc = \sum Ci / \text{chronic } RELi$$

Where:

Ci = Ground-level concentration of substance i (annual average concentration)
RELi = Chronic Reference Exposure Level for substance i.

Acute Risk

In the same manner as the quantification of chronic health effects, the potential for short-term acute health effects was quantified using a hazard index. The acute hazard index (HIa) is calculated by dividing the maximum estimated hourly concentration of each toxic air pollutant by its reference short-term exposure levels. The equation for estimating HIa is as follows:

$$HIa = \sum Ci / \text{Acute } RELi$$

Where:

Ci = Maximum hourly ground-level concentration of substance i
RELi = Acute Reference Exposure Level for substance i.

4.3 Indirect Impacts on Air Quality

Indirect impacts are the result of air quality changes that would not occur without the Project. The Project does not have any permanent on-site staff. There will not be construction and operation of retail establishment to support the Project. Therefore, indirect impact on air quality is expected to be minimal.

4.4 Cumulative Impacts

Cumulative impacts are the combined effect on air quality from the Project's operation and other emissions sources in the MDAB. In the operation phase, the Project operation has no major emissions sources. Operating equipment that emits regulated air pollutants, or requires MDAQMD permits, is not planned at the Project. The Project will not conflict with or obstruct implementing the applicable air quality plan, which in this case is the Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area). [Ref. 10] A project is deemed inconsistent with air quality plans if it results in population and/or employment growth that exceeds growth estimates in the applicable air quality plan. The ozone attainment plan relies upon future year emission inventories consistent with CARB, which in turn relies upon adopted General Plan growth projections. As the proposed Project is not part of an ongoing regulatory program, the MDAQMD recommends that project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality. As discussed above, peak daily emissions of operation-related pollutants will not exceed MDAQMD significance thresholds.

Moreover, estimates state that while the Project would generate air and greenhouse gas emissions during construction and a minimal amount of GHG emissions during operations, the solar energy provided by the Project is a much cleaner source of energy than traditional sources used for generating electricity, such as burning coal, fuel oil, or natural gas. The amount of CO_2 reductions from proposed solar energy generation depends on the type of electric generation to be displaced by the addition of the solar energy. The energy produced by the proposed 20 MW Project is estimated to displace approximately 34,050 tons of CO_2e that would otherwise be emitted by fossil fuel fired power plants. This is more than enough to offset the Project's air and GHG emissions.

As a result, the emissions of non-attainment pollutants and precursors generated by Project operation exceeding the MDAQMD project-level thresholds will be less than significant. Cumulative impact on air quality is expected to be minimal.

4.5 Conformity Impacts

The Project is required to comply with all applicable rules and regulations of the MDAQMD. The Project does not conflict with or delay implementation of any applicable attainment or maintenance plan; therefore, non-conformity is not expected.

Figure 2. Joshua Tree Solar Farm- Construction Schedule[1]

Joshua Tree Solar Farm - Construction Schedule
Construction Assumptions

Construction Schedule

Year	2013											
Month*	1	2	3	4	5	6	7	8	9	10	11	12
Overall Duration												
Demolition												
Mass Site Grading												
Trenching/Infrastructure Construction												
PV Installation												

[a] 22 days per month (URBEMIS Default)

Demolition	
Start Date	6/1/2013
End Date	6/15/2013
Duration (months)	0
Duration (days)	10.27

Mass Site Grading	
Start Date	6/16/2013
End Date	7/1/2013
Duration (months)	1
Duration (days)	11.00
Total Acreage To Be Graded	30.00
Max Daily Acreage Disturbed	3.00
Round Trips per Day (Material & Equipment Delivery)	5
Rule 403- 2x water per day	
Soil will be balanced on-site	

Trenching/Infrastructure Construction	
Start Date	7/2/2013
End Date	7/31/2013
Duration (months)	1
Duration (days)	21.27

PV Installation	
Start Date	6/1/2013
End Date	11/1/2013
Duration (months)	5
Duration (days)	120

1. Construction of the Project will take five to six months to complete, and expected to occur sometime during the 2013 to 2014 period. For purposes of a quantitative analysis, the conservative schedule above was assumed.

Figure 3. Construction Equipment

Joshua Tree Solar Farm Construction Equipment

Phase: Demolition

2 Rubber Tired Dozers

1 Tractor/Loader/Backhoe

Phase: Mass Grading

2 Graders

1 Rubber Tired Dozer

1 Water Truck

Phase: Trenching/Infrastructure Construction

2 Pile Drivers (Other Equipment)

1 Tractor/Loader/Backhoe

Phase: Building Construction- PV Installation

1 Bore/Drill Rig

1 Crane

1 Tractor/Loader/Backhoe

SECTION 5

DIRECT IMPACTS ON AIR QUALITY

This section presents the direct impacts on air quality associated with the proposed Project. The following sections present information on potentially significant impacts on air quality environment resulting from the Project's implementation. Mitigation measures are proposed that can reduce or eliminate any such impacts.

5.1 Direct Impacts from Project Construction and Operation

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

No Impact. The MDAQMD is required, pursuant to the CAA, to reduce emissions of criteria pollutants for which the MDAB is in non-attainment. The Project would be subject to the MDAQMD's Air Quality Attainment Plans: Mojave Desert Planning Area Federal Particulate Matter Attainment Plan and the Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area).[1] The attainment plans contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving ambient air quality standards.

The County of San Bernardino also contains an Air Quality Management Plan (AQMP). These strategies are developed, in part, based on regional population, housing, and employment projections prepared by the Southern California Association of Governments (SCAG). SCAG is the regional planning agency for San Bernardino County and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG prepares the Regional Transportation Plan (RTP), which forms the basis of the land use and transportation control portions of the AQMP. SCAG's RTP is used in preparing the air quality forecasts and the air quality consistency analysis that is included in the AQMP.

A project is consistent with the AQMP if it is consistent with the population, housing, and employment assumptions that were used in developing the AQMP. The 2007 AQMP, the most recent AQMP adopted by the MDAQMD, incorporates SCAG's RTP socioeconomic forecast projections of regional population and employment growth. The Project would not result in a permanent regional increase in jobs and it is estimated that a majority of the construction workforce would be sourced locally, and therefore is not expected to exceed AQMP projections. Because it would not affect population or employment, the Project is consistent with the population forecasts for the sub-region as adopted by SCAG. Because the Project is

[1] Mojave Desert Air Quality Management District CEQA and Federal Conformity Guidelines, August 2011.

consistent with the MDAQMD's projections incorporated into the AQMP, it can be concluded that the Project would be consistent with the projections in the AQMP.

Based on the above discussion, implementing the Project would cause no impact related to implementing the applicable air quality plans. Further analysis of this issue is not necessary.

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Construction Impacts

Less Than Significant Impact. The MDAQMD has established daily significance thresholds that address pollution sources associated with general construction activities, such as the operation of on-site construction equipment, fugitive dust from site grading activities, and travel by construction workers. Project construction emissions were calculated using the URBEMIS2007 emissions inventory model, originally developed by the CARB. The analysis assumed that construction activities would comply with applicable portions of MDAQMD Rule 403 regarding the control of fugitive dust. Short-term air quality impacts would occur during the construction of the project site. Three major sources of emissions during constructions include the following:

- Fugitive dust emissions - Dust is generally associated with excavation, windblown unpaved areas, vehicle and equipment travel on unpaved roads, and dirt/debris pushing. Dust generated during construction activities would vary substantially depending on the level of activity, the specific operations, and weather conditions;

- Construction Equipment - Construction requires using heavy-duty equipment, such as bulldozers, excavators, loaders, etc. Exhaust emissions from this equipment during construction activities would vary daily as activity levels change; and

- Vehicles – Transport vehicles travelling to and from the site, including delivery trucks hauling materials and automobiles carrying workers, generate exhaust emission.

The URBEMIS model runs, which estimate the construction emissions, are presented in Appendix A. Table 4, *Construction Emissions,* summarizes emissions during construction. As shown, the short-term emissions during the construction phase will not exceed MDAQMD significant thresholds. As such, the project will not conflict with or obstruct implementation of the air quality plan or result in violating air quality standards or contribute substantially to an existing or projected air quality violation.

Operational Impacts

Less Than Significant Impact. The URBEMIS model runs, which estimate the operation emissions, are presented in Appendix A. Table 5, *Operation Emissions,* summarizes the operation emission calculation compared with the annual threshold, since operation is long-

term. The primary sources of emissions during operation are vehicles used by facility maintenance staff to and from the site. For worst-case analysis, maintenance activities would consist of one water truck and one light duty truck for bi-annual panel washing. Localized operational emissions are expected to be minimal as the Project would not contain on-site stationary combustion equipment. As shown in Table 5, *Operation Emissions*, emissions during the long-term operation do not exceed MDAQMD significant thresholds. The Project would not result in new long-term stationary sources or in a significant number of net new vehicular trips. Accordingly, impacts related to localized mobile-source CO emissions would be less than significant. As such, the Project would have a less than significant impact on regional air quality.

The Project would contribute to local and regional air pollutant emissions. MDAQMD regional and local significance thresholds for construction and operation were used. Based on the analysis, implementing the Project would result in less than significant impacts relative to the daily significance thresholds for criteria air pollutant construction emissions established by the MDAQMD. Therefore, constructing and operating the Project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation.

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)?

Less Than Significant Impact. Although the Project results in an increase in short-term emissions related to construction and minor increases in long-term emission related to security and maintenance services, the regional emissions, as presented in Table 4, *Construction Emissions,* and Table 5, *Operation Emissions,* for those pollutants and precursors for which the Basin is non-attainment are less than the applicable MDAQMD thresholds. These thresholds are designed to assist the region in attaining the applicable State and national ambient air quality standards and apply to primary (criteria and precursor) and secondary pollutants. Although the Project site is located in a region that is in non-attainment for O_3, PM_{10}, and $PM_{2.5}$, the cumulative emissions associated with the Project would not be considerable as the emissions would fall below MDAQMD thresholds. Therefore, impacts would be less than significant in this regard. Further analysis of this issue is not necessary.

d) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. Nearby sensitive receptors to the Project were identified. The closest receptor location is as follows:

a. Southeast Receptor- A Single Family Residence located approximately 250 feet southeast of the project site, on the east side of Coyote Valley Road and south of 2 Mile Road.

Health risk impacts were conservatively assessed for all construction activities regardless of location or actual source-receptor distance. Table 6, *Health Risk Assessment*, summarizes the health risk assessment from construction activities. Note that the CARB HARP model uses conservative assumptions; therefore, actual concentration levels are expected to be less than what was analyzed in this report. As shown in Table 6, *Health Risk Assessment*, the highest residential and worker receptor risks from construction TACs result in concentrations well below the MDAQMD Risk Significance Level. Short-term concentration levels during the construction phase do not expose sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1. As described above, construction and operation of the Project would not result in emissions of criteria pollutants in excessive of established thresholds. Because emissions of TACs from diesel-powered construction equipment is expected to be minimal, intermittent, and of short duration, the Project is not expected to increase substantially ambient concentrations of TACs regionally or locally. Therefore, the Project would not expose sensitive receptors to substantial pollutant concentrations. As such, localized impacts to off-site sensitive receptors would be less than significant. Further analysis of this issue is not necessary.

e) Create objectionable odors affecting a substantial number of people?

Less Than Significant Impact. During Project-related construction activities, various diesel-powered vehicles and equipment could create minor odors. These odors are not likely to be noticeable beyond the immediate vicinity and would be temporary and short-lived. Therefore, construction odor impacts would be less than significant. Long-term odors are associated typically with industrial projects involving use of chemicals, solvents, petroleum products, and other strong-smelling elements used in manufacturing processes. Odors also are associated with such uses as sewage treatment facilities and landfills. The Project involves no elements related to these types of uses. Therefore, no long-term odor impacts would occur with Project implementation. Further analysis of this issue is not necessary.

5.2 Greenhouse Gas Emission Impacts

Would the Project:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment, based on any applicable threshold of significance?

Impact Analysis

Construction Impacts

Less Than Significant Impact. Construction of the Project would increase GHG generation, which can contribute to global climate change. This analysis is provided in response to recent heightened interest in the subject of global climate change and, specifically, in the California legislature's passage and the Governor's signing of AB 32, which is intended to control and reduce the emission of global warming gases in California; and SB 97, which directs the Office of Planning and Research (OPR) and the California Resources Agency to develop CEQA Guidelines on how local agencies should analyze and, if necessary, mitigate for GHG emissions.

Construction emissions would be associated with vehicle engine exhaust from construction equipment and vehicles, vendor trips, and construction worker commuting trips. Construction-related GHG emissions are considered temporary and short term. As shown in Table 4, *Construction Emissions,* short-term construction CO_2e emissions will not exceed the daily GHG threshold.

Operational Impacts

Less Than Significant Impact. Operation of the project is expected to result in minor increases in GHG emissions. The Joshua Tree Solar Farm's GHG emissions were calculated for the project, consistent with CEQA requirements. As mentioned above, the Project's facility operation will be limited to general maintenance, panel washing, and security. Operation and maintenance will use one water truck for bi-annual panel washing and one light duty truck as needed. This produces about 17.39 tons of CO_2e annually. According to EPA 2007 GHG Inventory guidance, a 20 MW solar generation facility is calculated to reduce 34,050 tons of CO_2e per year. Taking into account the solar generation facility emissions and reductions, facility operation will displace approximately 34,033 tons of CO_2e annually, as shown in Table 5, *Operation Emissions*.

Because construction-related and operational emissions will be temporary and finite, below those levels being considered and/or discussed by other government agencies and associations and consistent with the AB 32 Scoping Plan, the Project's construction-related GHG emissions cumulatively are not a considerable contribution to climate change and, therefore, are less than significant. The Project's operation-related GHG emissions will be negligible and cumulatively are not a considerable contribution to climate change and, therefore, are less than significant.

Due to the complex physical, chemical, and atmospheric mechanisms involved in global climate change, there is no basis for concluding that the Project's theoretically small emissions increase could actually cause a measurable increase in global GHG emissions necessary to influence global climate change. The GHG emissions of the Project alone will likely not cause a direct physical change in the environment. It is global emissions in their aggregate that contribute to climate change, not any one source of emissions alone. Therefore, due to the incremental amount of GHG emissions estimated for this Project, the lack of any evidence for concluding that the project's GHG emissions could cause any measurable increase in global GHG emissions necessary to force global climate change and that the project incorporates design features to

reduce potential GHG emissions, the Project is considered not hindering the goals of AB32. Thus, because the Project would result in total GHG emissions less than the MDAQMD 100,000 tons CO_2e annual threshold, it is not considered to have a significant impact on a cumulative level.

b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

No Impact. The County of San Bernardino has not yet developed a Greenhouse Gas Reduction Plan that meets the requirements set forth in the latest OPR guidelines; however, the MDAQMD has established a CO_2e annual threshold.

When considering net GHG emissions from converting the Project site from operating as an agricultural farm to operating a 20-MW solar PV power-generating facility, there will be a positive impact of a substantial net reduction in GHG emissions at the Project site. In addition, generating power from solar energy is a substantial reduction in GHG emissions over conventional power generation from the combustion of fossil fuels. The solar energy produced by the proposed Project is estimated at 20 MW and would provide an estimated reduction 34,050 tons of CO_2e per year during operation. After analyzing the the Project's operation emissions of 17.39 tons of CO_2e annually, the net operation emissions would displace approximately 34,033 tons of CO_2e each year during operation, which would provide a net benefit to the environment.

The Project also will accord with the state's need for the construction of renewable energy power plants to meet the state's GHG reduction objectives including the following:

- California's Renewable Portfolio Standard (RPS) that requires California's investor-owned electric utilities to obtain, from renewable sources, 20 percent of the electricity that they supply;

- Executive Order S-14-08 that established RPS targets for California that "all retail sellers of electricity shall serve 33 percent of their load with renewable energy by 2020";

- Executive Order S-03-05 on climate change to advance renewable energy and other solutions to reduce California's GHG emissions; and

- The California Global Warming Solutions Act of 2006 (Assembly Bill 32) that established a comprehensive program of regulatory and market mechanisms to reduce GHG emissions to 1990 levels by the year 2020.

As discussed above, the Project is not expected to produce a significant increase above the

MDAQMD threshold. The Project would not conflict with any applicable plan, policy, or regulation to reduce GHG emissions but would provide an added benefit to the State's GHG reduction objectives.

Table 4. Construction Emissions[a]

Joshua Tree Solar Farm	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$	CO_2e
Daily Emissions (lbs/day)							
Demolition	4	32	17	0	3	2	3,547
PV Installation	2	19	15	0	1	1	4,338
Concurrent emissions	**6**	**50**	**32**	**0**	**3**	**2**	**7,885**
Mass Site Grading	7	73	32	0	37	10	12,501
PV Installation	2	19	15	0	1	1	4,338
Concurrent emissions	**9**	**92**	**46**	**0**	**38**	**11**	**16,839**
PV Installation	2	19	15	0	1	1	4,338
Concurrent emissions	**3**	**27**	**18**	**0**	**1**	**1**	**5,895**
Maximum Concurrent Emissions	**9**	**92**	**46**	**0**	**38**	**11**	**16,839**
MDAQMD Significance Threshold (lbs/day)	**137**	**137**	**548**	**137**	**82**	**82**	**548,000**
Over (Under)	(128)	(45)	(502)	(137)	(44)	(71)	(531,161)
Exceed Threshold?	No	No	No	No	No	No	No
Annual Emissions (tons/year)							
2013	0.22	2.03	1.33	0.00	0.32	0.13	410.87
MDAQMD Significance Threshold (tons/year)	**25**	**25**	**100**	**25**	**15**	**15**	**100,000**
Over (Under)	(25)	(23)	(99)	(25)	(15)	(15)	(99,589)
Exceed Threshold?	No	No	No	No	No	No	No

** Values may not exactly add up due to rounding.*

a. Compiled using the URBEMIS emissions inventory model. The equipment mix and use assumption for each phase is provided in Figure 3.

b. PM_{10} emissions estimates are based on compliance with MDAQMD Rule 403 requirements for fugitive dust suppression.

Source: Tetra Tech, 2012

Table 5. Operation Emissions

Joshua Tree Solar Farm	ROG	NOx	CO	SO_2	PM_{10}	$PM_{2.5}$	CO_2e
Daily Emissions (lbs/day)							
Area[a]	0.02	0.00	0.28	0.00	0.00	0.00	0.51
Energy[b]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile[c]	0.11	0.00	0.02	0.00	0.00	0.00	2.34
Water[d]	0.00	0.00	0.00	0.00	0.00	0.00	8.15
Operation Phase (lbs/day)	**0.13**	**0.00**	**0.30**	**0.00**	**0.00**	**0.00**	**11.00**
Energy Reduction[b]	0.00	0.00	0.00	0.00	0.00	0.00	-163
Net Annual Emissions	0.13	0.00	0.30	0.00	0.00	0.00	(152)
MDAQMD Regional Emissions Threshold (lbs/day)	**25**	**25**	**100**	**25**	**15**	**15**	**548,000**
Over / (Under)	(25)	(25)	(100)	(25)	(15)	(15)	(548,152)
Exceed Threshold?	No	No	No	No	No	No	No
Annual Emissions (tons/year)							
Area[a]	0.12	0.02	1.55	0.00	0.01	0.01	2.81
Energy[b]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile[c]	0.71	0.01	0.11	0.00	0.02	0.00	13.22
Water[d]	0.00	0.00	0.00	0.00	0.00	0.00	1.36
Operation Phase	**0.83**	**0.03**	**1.66**	**0.00**	**0.03**	**0.01**	**17.39**
Energy Reduction[b]	0.00	0.00	0.00	0.00	0.00	0.00	-34,050.00
Net Annual Emissions	**0.83**	**0.03**	**1.66**	**0.00**	**0.03**	**0.01**	**(34,033)**
MDAQMD Regional Emissions Threshold	**25**	**25**	**100**	**25**	**15**	**15**	**100,000**
Over / (Under)	(24)	(25)	(98)	(25)	(15)	(15)	(134,033)
Exceed Threshold?	No	No	No	No	No	No	No

**All values were calculated using URBEMIS, unless otherwise stated. Values may not exactly add up due to rounding.*

a. Area sources related to the project include minimal consumer products.
b. Project will generate solar energy only and will not use electricity or natural gas. Emissions were calculated outside of URBEMIS.

c. Mobile emissions are based on project's trip generation. Client indicated two trips per year to the site for maintenance and security. A maximum of 10 trips per year was assumed. The Project Trip Rate is 0.01.

Source: Tetra Tech, 2012

Table 6. Health Risk Assessment

Receptor	Long-Term Risk		Acute Risk		Chronic Risk	
	HARP Output: 70-Year Cancer Risk[b]	SIGNIFICANCE LEVEL[a]	Acute Risk Hazard Index	SIGNIFICANCE LEVEL[a]	Chronic Risk Hazard Index	SIGNIFICANCE LEVEL[a]
Residential	3.44E-06	10E-06	1.78E-02	1	2.58E-03	1
Worker	1.29E-06	10E-06	2.39E-02	1	4.92E-03	1

a. Significance levels from MDAQMD CEQA Guidelines, August 2011

b. Converted one year construction activity to 70-year lifetime exposure.

c. Residential Receptor is Receptor #282 on HARP Outputs.

d. Worker Receptors are located along the fenceline.

Tetra Tech, 2012.

	Residential Risk	Worker Risk
Cancer Risk from Exposure (Chance in a million)	**3.44E-06**	**1.29E-06**
Cancer risk greater than or equal to 10 in a million?	No	No
Acute Risk from Exposure	**1.78E-02**	**2.39E-02**
Hazard Index (HI) (non-cancerous) greater than or equal to 1?	No	No
Chronic Risk from Exposure	**2.58E-03**	**4.92E-03**
Hazard Index (HI) (non-cancerous) greater than or equal to 1?	No	No

SECTION 6

MITIGATION MEASURES

The Project will be required to comply with regional rules that help reduce air pollutant emissions. MDAQMD Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, MDAQMD Rule 402 requires implementing dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Implementing these dust suppression techniques will reduce the fugitive dust generation (and thus the PM_{10} component). Compliance with these rules will reduce impacts on nearby sensitive receptors. Applicable dust suppression techniques include the following:

AQ-1 During construction, apply nontoxic chemical soil stabilizers according to manufacturers' specifications or water active sites at least twice daily (locations where grading is to occur will be thoroughly watered before earthmoving);

AQ-2 All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least two feet of freeboard according to the requirements of California Vehicle Code (CVC) section 23114 (freeboard means vertical space between the top of the load and top of the trailer);

AQ-3 During construction, the off-road equipment, vehicles, and trucks shall not run on idle more than five minutes in any one hour;

AQ-4 The off-road construction equipment drivers shall have proper training in operating equipment efficiently, taking into account ways to reduce the hours of operation of the equipment and/or operate the equipment at a lower load factor;

AQ-5 Traffic speeds on all unpaved roads shall be reduced to 15 mph or less; and

AQ-6 During construction, there shall be carpools, vanpools, and/or shuttles provided for construction employees.

The air quality emissions before mitigation are well below the MDAQMD daily and annual thresholds, as discussed in the impact assessment above. Implementing these mitigation measures will thus further reduce emissions below MDAQMD thresholds.

SECTION 7

REFERENCES

1. Mojave Desert Air Quality Management District, "California Environmental Quality Act and Federal Conformity Guidelines," August 2011.

2. California Air Resources Board Area Designations. Available at www.arb.ca.gov/desig/desig.htm.

3. California Air Resources Board iADAM: Air Quality Data Statistics Select 8 Summary. Accessed online at: http://www.arb.ca.gov/ada/select8/sc8start.php.

4. Intergovernmental Panel on Climate Change (IPCC). Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the IPCC. Geneva, Switzerland.

5. Seinfeld and Pandis. Atmospheric Chemistry and Physics from Air Pollution to Climate Change, 1998.

6. CARB's Urban Emission Model 2007, Version 9.2.4, http://www.urbemis.com/.

7. Mojave Desert Air Quality Management District Rule 403, http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=37

8. Mojave Desert Air Quality Management District Regulation II and XIII, http://www.mdaqmd.ca.gov/index.aspx?page=138.

9. California Air Resources Board (ARB). Speciation Profiles. Available online at: http://www.arb.ca.gov/ei/speciate/interopt01.htm.

10. MDAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area), June 9, 2008, http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=40.

APPENDIX A

URBEMIS MODEL OUTPUTS

- **Annual Outputs**
- **Summer Outputs**
- **Winter Outputs**

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

Project Name: BP Solar- Joshua Tree Solar Farm

Project Location: San Bernadino County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2013 TOTALS (tons/year unmitigated)	0.22	2.03	1.33	0.00	0.40	0.08	0.49	0.09	0.08	0.16	410.87
2013 TOTALS (tons/year mitigated)	0.22	2.03	1.33	0.00	0.23	0.08	0.32	0.05	0.08	0.13	410.87
Percent Reduction	0.00	0.00	0.00	0.00	41.91	0.00	34.71	41.46	0.00	21.80	0.00

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.02	0.00	0.28	0.00	0.00	0.00	0.51

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.11	0.00	0.02	0.00	0.00	0.00	2.34

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	0.13	0.00	0.30	0.00	0.00	0.00	2.85

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2013	0.22	2.03	1.33	0.00	0.40	0.08	0.49	0.09	0.08	0.16	410.87
Building 06/01/2013-11/01/2013	0.14	1.23	0.97	0.00	0.00	0.05	0.06	0.00	0.05	0.05	286.32
Building Off Road Diesel	0.11	0.91	0.45	0.00	0.00	0.04	0.04	0.00	0.04	0.04	169.90
Building Vendor Trips	0.03	0.30	0.23	0.00	0.00	0.01	0.01	0.00	0.01	0.01	75.57
Building Worker Trips	0.01	0.02	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.85
Demolition 06/01/2013-06/15/2013	0.02	0.21	0.11	0.00	0.01	0.01	0.02	0.00	0.01	0.01	23.06
Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demo Off Road Diesel	0.02	0.19	0.10	0.00	0.00	0.01	0.01	0.00	0.01	0.01	18.32
Demo On Road Diesel	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.13
Demo Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Mass Grading 06/16/2013-07/01/2013	0.04	0.48	0.21	0.00	0.39	0.02	0.41	0.08	0.02	0.10	81.26
Mass Grading Dust	0.00	0.00	0.00	0.00	0.39	0.00	0.39	0.08	0.00	0.08	0.00
Mass Grading Off Road Diesel	0.02	0.15	0.08	0.00	0.00	0.01	0.01	0.00	0.01	0.01	15.91
Mass Grading On Road Diesel	0.03	0.33	0.12	0.00	0.00	0.01	0.01	0.00	0.01	0.01	64.54
Mass Grading Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
Trenching 07/02/2013-07/31/2013	0.01	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.24
Trenching Off Road Diesel	0.01	0.11	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.03
Trenching Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20

Phase Assumptions

Phase: Demolition 6/1/2013 - 6/15/2013 - Default Demolition Description
Building Volume Total (cubic feet): 5000
Building Volume Daily (cubic feet): 2700
On Road Truck Travel (VMT): 150
Off-Road Equipment:
2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Mass Grading 6/16/2013 - 7/1/2013 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 26
Maximum Daily Acreage Disturbed: 3
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 2342.86
Off-Road Equipment:
2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day
1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 7/2/2013 - 7/31/2013 - Trenching/Infrastructure Construction
Off-Road Equipment:
2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Building Construction 6/1/2013 - 11/1/2013 - Default Building Construction Description
Off-Road Equipment:
1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day
1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Mitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
2013	0.22	2.03	1.33	0.00	0.23	0.08	0.32	0.05	0.08	0.13	410.87

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

Project Name: BP Solar- Joshua Tree Solar Farm

Project Location: San Bernadino County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2013-6/15/2013 Active Days: 13	5.93	50.47	32.08	0.02	1.23	2.19	3.42	0.27	2.01	2.28	7,885.32
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Demolition 06/01/2013-06/15/2013	3.76	31.86	17.45	0.01	1.16	1.40	2.56	0.24	1.29	1.54	3,547.08
Fugitive Dust	0.00	0.00	0.00	0.00	1.13	0.00	1.13	0.24	0.00	0.24	0.00
Demo Off Road Diesel	3.48	28.57	15.59	0.00	0.00	1.28	1.28	0.00	1.18	1.18	2,818.65
Demo On Road Diesel	0.26	3.25	1.21	0.01	0.02	0.12	0.14	0.01	0.11	0.12	635.76
Demo Worker Trips	0.02	0.04	0.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.68
Time Slice 6/17/2013-7/1/2013 Active Days: 13	**8.96**	**91.87**	**46.39**	**0.11**	**60.41**	**3.72**	**64.12**	**12.66**	**3.42**	**16.08**	**16,839.28**
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Mass Grading 06/16/2013-07/01/2013	6.79	73.26	31.76	0.09	60.34	2.93	63.27	12.64	2.70	15.34	12,501.03
Mass Grading Dust	0.00	0.00	0.00	0.00	60.00	0.00	60.00	12.53	0.00	12.53	0.00
Mass Grading Off Road Diesel	2.74	22.43	12.04	0.00	0.00	1.03	1.03	0.00	0.95	0.95	2,447.50
Mass Grading On Road Diesel	4.03	50.79	18.85	0.09	0.33	1.90	2.23	0.11	1.75	1.86	9,929.97
Mass Grading Worker Trips	0.03	0.05	0.87	0.00	0.01	0.00	0.01	0.00	0.00	0.01	123.57
Time Slice 7/2/2013-7/31/2013 Active Days: 26	3.02	27.40	18.31	0.02	0.07	1.08	1.15	0.03	0.99	1.02	5,895.00
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Trenching 07/02/2013-07/31/2013	0.85	8.80	3.68	0.00	0.00	0.29	0.30	0.00	0.27	0.27	1,556.76
Trenching Off Road Diesel	0.83	8.76	3.03	0.00	0.00	0.29	0.29	0.00	0.27	0.27	1,464.08
Trenching Worker Trips	0.02	0.04	0.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.68
Time Slice 8/1/2013-11/1/2013 Active Days: 80	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01

Phase Assumptions

Phase: Demolition 6/1/2013 - 6/15/2013 - Default Demolition Description
Building Volume Total (cubic feet): 5000
Building Volume Daily (cubic feet): 2700
On Road Truck Travel (VMT): 150
Off-Road Equipment:
2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Mass Grading 6/16/2013 - 7/1/2013 - Default Mass Site Grading/Excavation Description
Total Acres Disturbed: 26
Maximum Daily Acreage Disturbed: 3
Fugitive Dust Level of Detail: Default
20 lbs per acre-day
On Road Truck Travel (VMT): 2342.86
Off-Road Equipment:
2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day
1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day
1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 7/2/2013 - 7/31/2013 - Trenching/Infrastructure Construction
Off-Road Equipment:
2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Building Construction 6/1/2013 - 11/1/2013 - Default Building Construction Description
Off-Road Equipment:
1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day
1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2013-6/15/2013 Active Days: 13	5.93	50.47	32.08	0.02	1.23	2.19	3.42	0.27	2.01	2.28	7,885.32
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Demolition 06/01/2013-06/15/2013	3.76	31.86	17.45	0.01	1.16	1.40	2.56	0.24	1.29	1.54	3,547.08
Fugitive Dust	0.00	0.00	0.00	0.00	1.13	0.00	1.13	0.24	0.00	0.24	0.00
Demo Off Road Diesel	3.48	28.57	15.59	0.00	0.00	1.28	1.28	0.00	1.18	1.18	2,818.65
Demo On Road Diesel	0.26	3.25	1.21	0.01	0.02	0.12	0.14	0.01	0.11	0.12	635.76

Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

Project Name: BP Solar- Joshua Tree Solar Farm

Project Location: San Bernadino County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2013-6/15/2013 Active Days: 13	5.93	50.47	32.08	0.02	1.23	2.19	3.42	0.27	2.01	2.28	7,885.32
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Demolition 06/01/2013-06/15/2013	3.76	31.86	17.45	0.01	1.16	1.40	2.56	0.24	1.29	1.54	3,547.08
Fugitive Dust	0.00	0.00	0.00	0.00	1.13	0.00	1.13	0.24	0.00	0.24	0.00
Demo Off Road Diesel	3.48	28.57	15.59	0.00	0.00	1.28	1.28	0.00	1.18	1.18	2,818.65
Demo On Road Diesel	0.26	3.25	1.21	0.01	0.02	0.12	0.14	0.01	0.11	0.12	635.76
Demo Worker Trips	0.02	0.04	0.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.68
Time Slice 6/17/2013-7/1/2013 Active Days: 13	**8.96**	**91.87**	**46.39**	**0.11**	**60.41**	**3.72**	**64.12**	**12.66**	**3.42**	**16.08**	**16,839.28**
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Mass Grading 06/16/2013-07/01/2013	6.79	73.26	31.76	0.09	60.34	2.93	63.27	12.64	2.70	15.34	12,501.03
Mass Grading Dust	0.00	0.00	0.00	0.00	60.00	0.00	60.00	12.53	0.00	12.53	0.00
Mass Grading Off Road Diesel	2.74	22.43	12.04	0.00	0.00	1.03	1.03	0.00	0.95	0.95	2,447.50
Mass Grading On Road Diesel	4.03	50.79	18.85	0.09	0.33	1.90	2.23	0.11	1.75	1.86	9,929.97
Mass Grading Worker Trips	0.03	0.05	0.87	0.00	0.01	0.00	0.01	0.00	0.00	0.01	123.57
Time Slice 7/2/2013-7/31/2013 Active Days: 26	3.02	27.40	18.31	0.02	0.07	1.08	1.15	0.03	0.99	1.02	5,895.00
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Trenching 07/02/2013-07/31/2013	0.85	8.80	3.68	0.00	0.00	0.29	0.30	0.00	0.27	0.27	1,556.76
Trenching Off Road Diesel	0.83	8.76	3.03	0.00	0.00	0.29	0.29	0.00	0.27	0.27	1,464.08
Trenching Worker Trips	0.02	0.04	0.65	0.00	0.00	0.00	0.01	0.00	0.00	0.00	92.68
Time Slice 8/1/2013-11/1/2013 Active Days: 80	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01

Phase Assumptions

Phase: Demolition 6/1/2013 - 6/15/2013 - Default Demolition Description

Building Volume Total (cubic feet): 5000

Building Volume Daily (cubic feet): 2700

On Road Truck Travel (VMT): 150

Off-Road Equipment:

2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Mass Grading 6/16/2013 - 7/1/2013 - Default Mass Site Grading/Excavation Description

Total Acres Disturbed: 26

Maximum Daily Acreage Disturbed: 3

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 2342.86

Off-Road Equipment:

2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

1 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

1 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Trenching 7/2/2013 - 7/31/2013 - Trenching/Infrastructure Construction

Off-Road Equipment:

2 Other Equipment (190 hp) operating at a 0.62 load factor for 8 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 0 hours per day

Phase: Building Construction 6/1/2013 - 11/1/2013 - Default Building Construction Description

Off-Road Equipment:

1 Bore/Drill Rigs (291 hp) operating at a 0.75 load factor for 8 hours per day

1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

	ROG	NOx	CO	SO2	PM10 Dust	PM10 Exhaust	PM10	PM2.5 Dust	PM2.5 Exhaust	PM2.5	CO2
Time Slice 6/1/2013-6/15/2013 Active Days: 13	5.93	50.47	32.08	0.02	1.23	2.19	3.42	0.27	2.01	2.28	7,885.32
Building 06/01/2013-11/01/2013	2.17	18.61	14.63	0.02	0.07	0.79	0.86	0.02	0.72	0.74	4,338.24
Building Off Road Diesel	1.63	13.83	6.78	0.00	0.00	0.59	0.59	0.00	0.54	0.54	2,574.22
Building Vendor Trips	0.40	4.53	3.50	0.01	0.04	0.18	0.22	0.01	0.16	0.18	1,145.02
Building Worker Trips	0.13	0.25	4.35	0.01	0.03	0.02	0.05	0.01	0.02	0.03	619.01
Demolition 06/01/2013-06/15/2013	3.76	31.86	17.45	0.01	1.16	1.40	2.56	0.24	1.29	1.54	3,547.08
Fugitive Dust	0.00	0.00	0.00	0.00	1.13	0.00	1.13	0.24	0.00	0.24	0.00
Demo Off Road Diesel	3.48	28.57	15.59	0.00	0.00	1.28	1.28	0.00	1.18	1.18	2,818.65
Demo On Road Diesel	0.26	3.25	1.21	0.01	0.02	0.12	0.14	0.01	0.11	0.12	635.76

APPENDIX B

HEALTH RISK MODEL OUTPUTS

TAC SPECIATION

Source Type: Farm equipment - diesel - light & heavy - (ems=actual weight)

lbs/day	3.717011402
lb/hr	0.37170114
lb/yr	490.6455051

CHEM_NAME	CAS	CARB?	Speciation Fraction	Acute lb/hr
1,3-butadiene	106990	YES	0.0019	0.0007062
acetaldehyde	75070	YES	0.07353	0.0273312
benzene	71432	YES	0.02001	0.0074377
formaldehyde	50000	YES	0.14714	0.0546921
methanol	67561	YES	0.0003	0.0001115
m-xylene	108383	YES	0.00611	0.0022711
naphthalene	91203	YES	0.00085	0.0003159
o-xylene	95476	YES	0.00335	0.0012452
p-xylene	106423	YES	0.00095	0.0003531
styrene	100425	YES	0.00058	0.0002156
toluene	108883	YES	0.01473	0.0054752
ARSENIC	7440382	YES	0.000005	1.859E-06
BROMINE	7726956	YES	0.000018	6.691E-06
CADMIUM	7440439	YES	0.00004	1.487E-05
CHLORINE	7782505	YES	0.000344	0.0001279
CHROMIUM VI	18540299	YES	0.0000006	2.23E-07
LEAD	7439921	YES	0.000042	1.561E-05
MANGANESE	7439965	YES	0.00004	1.487E-05
MERCURY	7439976	YES	0.00003	1.115E-05
NICKEL	7440020	YES	0.000019	7.062E-06
SELENIUM	7782492	YES	0.00001	3.717E-06
VANADIUM	7440622	YES	0.000029	1.078E-05

Source: CARB Speciation Profiles, 2011, http://www.arb.ca.gov/ei/speciate/speciate.htm.

TAC SPECIATION

Source Type: Gasoline Vehicles- Catalyst; PM Profile ID: 400

lbs/day	0.559134164
lb/hr	0.055913416
lb/yr	73.80570961

CHEMICAL NAME	CAS	WEIGHT % of PM 10	WEIGHT of PM 10	CARB?	Acute lb/hr	lb/yr	Cancer/ Chronic 70-yr Avg.
BROMINE	7726956	0.0005	0.05	YES	2.8E-05	0.036903	0.000527
CHLORINE	7782505	0.07	7	YES	0.003914	5.1664	0.073806
CHROMIUM	7440473	0.0005	0.05	NO	2.8E-05	0.036903	0.000527
COBALT	7440484	0.0005	0.05	NO	2.8E-05	0.036903	0.000527
COPPER	7440508	0.0005	0.05	YES	2.8E-05	0.036903	0.000527
MANGANESE	7439965	0.0005	0.05	YES	2.8E-05	0.036903	0.000527
NICKEL	7440020	0.0005	0.05	YES	2.8E-05	0.036903	0.000527
SULFATES	9960	0.45	45	YES	0.025161	33.21257	0.474465
ZINC	7440666	0.0005	0.05	NO	2.8E-05	0.036903	0.000527

Source: CARB Speciation Profiles, 2011, http://www.arb.ca.gov/ei/speciate/speciate.htm.

RESIDENTIAL- CANCER RISK

This file: Rep_Can_70yr_DerAdj_AllRec_AllSrc_AllCh_ByRec_Site.txt

Created by HARP Version 1.4e Build 23.10.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 7/17/2012 2:13:55 PM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\ Desktop\WG-JTREE\test\JTREE.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: none
Site parameters file: C:\ Desktop\WG-JTREE\test\project.sit

Coordinate system: UTM NAD83

Screening mode is OFF

Exposure duration: 70 year (adult resident)
Analysis method: Derived (Adjusted) Method
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.02

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

HUMAN INGESTION
Fraction of ingested leafy vegetable
from home grown source 0.15
Fraction of ingested exposed vegetable
from home grown source 0.15
Fraction of ingested protected vegetable
from home grown source 0.15
Fraction of ingested root vegetable
from home grown source 0.15

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway enabled ***

SOIL INGESTION

*** Pathway enabled ***

MOTHER'S MILK

*** Pathway enabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	107028	Acrolein	Acrolein	0.000E+00
0002	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0003	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0004	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0005	7440382	Arsenic	Arsenic	0.000E+00
0006	71432	Benzene	Benzene	0.000E+00
0007	7726956	Bromine	Bromine	0.000E+00
0008	7440439	Cadmium	Cadmium	0.000E+00
0009	7782505	Chlorine	Chlorine	0.000E+00
0010	7440473	Chromium	Chromium	0.000E+00
0011	7440484	Cobalt	Cobalt	0.000E+00
0012	7440508	Copper	Copper	0.000E+00
0013	50000	Formaldehyde	Formaldehyde	0.000E+00
0014	7439921	Lead	Lead	0.000E+00
0015	7439965	Manganese	Manganese	0.000E+00
0016	7439976	Mercury	Mercury	0.000E+00
0017	67561	Methanol	Methanol	0.000E+00
0018	108383	m-Xylene	m-Xylene	0.000E+00
0019	91203	Naphthalene	Naphthalene	0.000E+00
0020	7440020	Nickel	Nickel	0.000E+00
0021	95476	o-Xylene	o-Xylene	0.000E+00
0022	106423	p-Xylene	p-Xylene	0.000E+00
0023	7782492	Selenium	Selenium	0.000E+00
0024	100425	Styrene	Styrene	0.000E+00
0025	9960	SULFATES	SULFATES	0.000E+00
0026	108883	Toluene	Toluene	0.000E+00
0027	7440622	Vanadium	Vanadium (fume or dust)	0.000E+00
0028	7440666	Zinc	Zinc	0.000E+00

CHEMICAL HEALTH VALUES

CHEM	CAS	ABBREVIATION	CancerPF(Inh) (mg/kg-d)^-1	CancerPF(Oral) (mg/kg-d)^-1	ChronicREL(Inh) ug/m^3	ChronicREL(Oral) mg/kg-d	AcuteREL ug/m^3
0001	107028	Acrolein	*	*	3.50E-01	*	2.50E+00
0002	9901	DieselExhPM	1.10E+00	*	5.00E+00	*	*
0003	106990	1,3-Butadiene	6.00E-01	*	2.00E+01	*	*
0004	75070	Acetaldehyde	1.00E-02	*	1.40E+02	*	4.70E+02
0005	7440382	Arsenic	1.20E+01	1.50E+00	1.50E-02	3.50E-06	2.00E-01
0006	71432	Benzene	1.00E-01	*	6.00E+01	*	1.30E+03
0007	7726956	Bromine	*	*	*	*	*
0008	7440439	Cadmium	1.50E+01	*	2.00E-02	5.00E-04	*
0009	7782505	Chlorine	*	*	2.00E-01	*	2.10E+02
0010	7440473	Chromium	*	*	*	*	*
0011	7440484	Cobalt	*	*	*	*	*
0012	7440508	Copper	*	*	*	*	1.00E+02
0013	50000	Formaldehyde	2.10E-02	*	9.00E+00	*	5.50E+01
0014	7439921	Lead	4.20E-02	8.50E-03	*	*	*
0015	7439965	Manganese	*	*	9.00E-02	*	*
0016	7439976	Mercury	*	*	3.00E-02	1.60E-04	6.00E-01
0017	67561	Methanol	*	*	4.00E+03	*	2.80E+04
0018	108383	m-Xylene	*	*	7.00E+02	*	2.20E+04
0019	91203	Naphthalene	1.20E-01	*	9.00E+00	*	*
0020	7440020	Nickel	9.10E-01	*	5.00E-02	5.00E-02	6.00E+00
0021	95476	o-Xylene	*	*	7.00E+02	*	2.20E+04
0022	106423	p-Xylene	*	*	7.00E+02	*	2.20E+04
0023	7782492	Selenium	*	*	2.00E+01	*	*
0024	100425	Styrene	*	*	9.00E+02	*	2.10E+04
0025	9960	SULFATES	*	*	*	*	1.20E+02
0026	108883	Toluene	*	*	3.00E+02	*	3.70E+04
0027	7440622	Vanadium	*	*	*	*	3.00E+01
0028	7440666	Zinc	*	*	*	*	*

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\ Desktop\WG-JTREE\test\JTREE1.EMS
EMISSION RATES HAVE BEEN MANUALLY EDITED BY USER
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=PM10EXH EMS (lbs/yr)
SOURCE MULTIPLIER=1

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0	5.00E+00	5.60E-04
9901	DieselExhPM	1	0	3.75E+02	4.00E-02

106990	1,3-Butadiene	1	0		7.06E-04
75070	Acetaldehyde	1	0		2.73E-02
7440382	Arsenic	1	0		1.86E-06
71432	Benzene	1	0		7.44E-03
7726956	Bromine	1	0	5.27E-04	3.46E-05
7440439	Cadmium	1	0		1.49E-05
7782505	Chlorine	1	0	7.38E-02	1.56E-04
7440473	Chromium	1	0	5.27E-04	2.80E-05
7440484	Cobalt	1		5.27E-04	2.80E-05
7440508	Copper	1	0	5.27E-04	3.72E-05
50000	Formaldehyde	1	0		5.47E-02
7439921	Lead	1	0		1.56E-05
7439965	Manganese	1	0	5.27E-04	4.28E-05
7439976	Mercury	1	0		1.12E-05
67561	Methanol	1	0		1.12E-04
108383	m-Xylene	1			2.27E-03
91203	Naphthalene	1	0		3.16E-04
7440020	Nickel	1	0	5.27E-04	3.50E-05
95476	o-Xylene	1	0		1.25E-03
106423	p-Xylene	1	0		3.53E-04
7782492	Selenium	1	0		3.72E-06
100425	Styrene	1	0		2.16E-04
9960	SULFATES	1	0	4.74E-01	2.52E-02
108883	Toluene	1	0		5.48E-03
7440622	Vanadium	1	0		1.08E-05
7440666	Zinc	1	0	5.27E-04	2.80E-05

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=ACRLN EMS (lbs/yr)
SOURCE MULTIPLIER=0

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0		
9901	DieselExhPM	1	0		
106990	1,3-Butadiene	1	0		
75070	Acetaldehyde	1	0		
7440382	Arsenic	1	0		
71432	Benzene	1	0		
7726956	Bromine	1	0		
7440439	Cadmium	1	0		
7782505	Chlorine	1	0		
7440473	Chromium	1	0		
7440484	Cobalt	1			
7440508	Copper	1	0		
50000	Formaldehyde	1	0		
7439921	Lead	1	0		
7439965	Manganese	1	0		
7439976	Mercury	1	0		
67561	Methanol	1	0		
108383	m-Xylene	1			
91203	Naphthalene	1	0		
7440020	Nickel	1	0		
95476	o-Xylene	1	0		
106423	p-Xylene	1	0		
7782492	Selenium	1	0		
100425	Styrene	1	0		
9960	SULFATES	1	0		
108883	Toluene	1	0		
7440622	Vanadium	1	0		
7440666	Zinc	1	0		

CANCER RISK REPORT

REC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL
0001	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-07
0002	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-07
0003	3.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-07
0004	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-07
0005	4.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-07
0006	4.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-07
0007	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-07
0008	4.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-07
0009	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-07
0010	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-07
0011	2.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-07
0012	2.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-07
0013	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-07
0014	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-07

0015	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-07
0016	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07
0017	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07
0018	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-07
0019	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-07
0020	9.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-08
0021	9.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-08
0022	3.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-07
0023	3.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-07
0024	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-07
0025	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-07
0026	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-07
0027	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-07
0028	4.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-07
0029	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-07
0030	4.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-07
0031	4.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-07
0032	3.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-07
0033	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-07
0034	2.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-07
0035	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-07
0036	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-07
0037	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-07
0038	1.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-07
0039	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-07
0040	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07
0041	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-07
0042	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-07
0043	3.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-07
0044	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-07
0045	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-07
0046	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-07
0047	5.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-07
0048	5.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-07
0049	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-07
0050	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-07
0051	5.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-07
0052	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-07
0053	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-07
0054	3.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-07
0055	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-07
0056	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-07
0057	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-07
0058	1.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-07
0059	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-07
0060	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-07
0061	1.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-07
0062	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-07
0063	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07
0064	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-07
0065	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-07
0066	4.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-07
0067	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-07
0068	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-07
0069	6.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-07
0070	6.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-07
0071	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-07
0072	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-07
0073	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-07
0074	5.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-07
0075	4.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-07
0076	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-07
0077	3.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-07
0078	2.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-07
0079	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-07
0080	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-07
0081	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07
0082	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-07
0083	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-07
0084	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-07
0085	3.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-07
0086	4.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-07
0087	5.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-07
0088	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-07
0089	6.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-07

0090	6.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-07
0091	7.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-07
0092	8.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-07
0093	8.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-07
0094	8.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-07
0095	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-07
0096	6.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-07
0097	5.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-07
0098	3.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-07
0099	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-07
0100	2.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-07
0101	2.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-07
0102	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-07
0103	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-07
0104	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-07
0105	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-07
0106	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07
0107	4.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-07
0108	5.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-07
0109	5.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-07
0110	6.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-07
0111	7.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-07
0112	8.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-07
0113	9.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-07
0114	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-06
0115	1.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-06
0116	1.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-06
0117	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-06
0118	7.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-07
0119	5.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-07
0120	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-07
0121	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-07
0122	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-07
0123	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-07
0124	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-07
0125	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07
0126	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-07
0127	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-07
0128	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-07
0129	5.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-07
0130	6.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-07
0131	7.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-07
0132	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-07
0133	9.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-07
0134	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-06
0135	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-06
0136	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06
0137	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-06
0138	1.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-06
0139	1.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-06
0140	9.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-07
0141	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-07
0142	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-07
0143	3.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-07
0144	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-07
0145	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-07
0146	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07
0147	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-07
0148	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-07
0149	4.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-07
0150	5.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-07
0151	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-07
0152	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-07
0153	9.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-07
0154	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06
0155	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06
0156	1.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06
0157	2.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-06
0158	3.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-06
0159	4.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06
0160	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06
0161	3.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-06
0162	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-06
0163	6.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-07
0164	4.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-07

0165	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-07
0166	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-07
0167	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-07
0168	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-07
0169	4.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-07
0170	4.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-07
0171	6.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-07
0172	7.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-07
0173	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-07
0174	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-06
0175	1.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06
0176	1.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06
0177	1.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-06
0178	2.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-06
0179	2.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-06
0180	9.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-07
0181	5.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-07
0182	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-07
0183	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-07
0184	2.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-07
0185	1.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-07
0186	3.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-07
0187	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-07
0188	6.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-07
0189	7.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-07
0190	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06
0191	1.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-06
0192	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-06
0193	1.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-06
0194	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-06
0195	2.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06
0196	3.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06
0197	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-06
0198	6.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-07
0199	4.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-07
0200	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-07
0201	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-07
0202	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07
0203	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-07
0204	4.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-07
0205	6.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-07
0206	7.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-07
0207	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-06
0208	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06
0209	1.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-06
0210	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-06
0211	2.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-06
0212	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06
0213	3.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-06
0214	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-06
0215	8.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-07
0216	5.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-07
0217	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-07
0218	2.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-07
0219	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-07
0220	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-07
0221	4.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-07
0222	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-07
0223	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-07
0224	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-06
0225	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-06
0226	2.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-06
0227	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-06
0228	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-06
0229	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06
0230	3.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-06
0231	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-06
0232	9.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-07
0233	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-07
0234	3.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-07
0235	2.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-07
0236	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07
0237	3.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-07
0238	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-07
0239	5.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-07

0240	7.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-07
0241	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-06
0242	2.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-06
0243	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-06
0244	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-06
0245	9.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-07
0246	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-07
0247	4.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-07
0248	3.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-07
0249	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-07
0250	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-07
0251	4.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-07
0252	5.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-07
0253	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-07
0254	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-06
0255	1.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-06
0256	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06
0257	1.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-06
0258	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-06
0259	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-07
0260	4.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-07
0261	3.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-07
0262	2.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-07
0263	3.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-07
0264	4.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-07
0265	5.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-07
0266	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-07
0267	9.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-07
0268	1.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-06
0269	3.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-06
0270	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-06
0271	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06
0272	6.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-07
0273	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07
0274	3.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-07
0275	2.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-07
0276	3.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-07
0277	3.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-07
0278	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-07
0279	5.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-07
0280	7.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-07
0281	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-06
0282	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-06
0283	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-06
0284	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-06
0285	7.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-07
0286	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-07
0287	3.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-07
0288	3.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-07
0289	2.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-07
0290	3.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-07
0291	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-07
0292	4.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-07
0293	5.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-07
0294	7.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-07
0295	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06
0296	1.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-06
0297	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-06
0298	2.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-06
0299	2.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-06
0300	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-06
0301	2.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-06
0302	2.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06
0303	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-06
0304	1.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-06
0305	9.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-07
0306	6.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-07
0307	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-07
0308	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07
0309	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-07
0310	2.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-07
0311	2.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-07
0312	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-07
0313	3.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-07
0314	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-07

0315	5.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-07
0316	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-07
0317	9.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-07
0318	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-06
0319	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-06
0320	1.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06
0321	1.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-06
0322	1.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-06
0323	1.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-06
0324	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-06
0325	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-06
0326	8.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-07
0327	6.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-07
0328	5.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-07
0329	4.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-07
0330	3.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-07
0331	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-07
0332	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-07
0333	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-07
0334	2.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-07
0335	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-07
0336	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-07
0337	4.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-07
0338	6.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-07
0339	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-07
0340	8.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-07
0341	9.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-07
0342	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-06
0343	1.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-06
0344	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-06
0345	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-07
0346	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-07
0347	7.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-07
0348	5.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-07
0349	4.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-07
0350	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-07
0351	3.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-07
0352	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-07
0353	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07
0354	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-07
0355	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-07
0356	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-07
0357	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-07
0358	3.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-07
0359	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-07
0360	5.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-07
0361	5.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-07
0362	6.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-07
0363	7.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-07
0364	7.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-07
0365	7.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-07
0366	7.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-07
0367	6.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-07
0368	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-07
0369	5.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-07
0370	4.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-07
0371	3.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-07
0372	3.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-07
0373	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-07
0374	1.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-07
0375	1.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-07
0376	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-07
0377	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-07
0378	2.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-07
0379	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-07
0380	3.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-07
0381	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-07
0382	4.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-07
0383	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-07
0384	5.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-07
0385	5.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-07
0386	5.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-07
0387	5.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-07
0388	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-07
0389	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-07

0390	4.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-07
0391	4.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-07
0392	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-07
0393	3.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-07
0394	5.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-06
0395	2.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-06
0396	2.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-06
0397	6.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-06
0398	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-06
0399	1.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-06
0400	5.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-06

RESIDENTIAL- CHRONIC RISK

This file: C:\ Desktop\WG-JTREE\test\Rep_Chr_Res_Avg_AllRec_AllSrc_AllCh_ByRec_Site.txt

Created by HARP Version 1.4e Build 23.10.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 7/17/2012 2:12:21 PM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\ Desktop\WG-JTREE\test\JTREE.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: none
Site parameters file: C:\ Desktop\WG-JTREE\test\project.sit

Coordinate system: UTM NAD83

Screening mode is OFF

Exposure duration: resident
Analysis method: Average point estimate
Health effect: Chronic HI
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.02

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

HUMAN INGESTION
Fraction of ingested leafy vegetable
from home grown source 0.15
Fraction of ingested exposed vegetable
from home grown source 0.15
Fraction of ingested protected vegetable
from home grown source 0.15
Fraction of ingested root vegetable
from home grown source 0.15

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway enabled ***

SOIL INGESTION

*** Pathway enabled ***

MOTHER'S MILK

*** Pathway enabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	107028	Acrolein	Acrolein	0.000E+00
0002	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0003	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0004	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0005	7440382	Arsenic	Arsenic	0.000E+00
0006	71432	Benzene	Benzene	0.000E+00
0007	7726956	Bromine	Bromine	0.000E+00
0008	7440439	Cadmium	Cadmium	0.000E+00
0009	7782505	Chlorine	Chlorine	0.000E+00
0010	7440473	Chromium	Chromium	0.000E+00
0011	7440484	Cobalt	Cobalt	0.000E+00
0012	7440508	Copper	Copper	0.000E+00
0013	50000	Formaldehyde	Formaldehyde	0.000E+00
0014	7439921	Lead	Lead	0.000E+00
0015	7439965	Manganese	Manganese	0.000E+00
0016	7439976	Mercury	Mercury	0.000E+00
0017	67561	Methanol	Methanol	0.000E+00
0018	108383	m-Xylene	m-Xylene	0.000E+00
0019	91203	Naphthalene	Naphthalene	0.000E+00
0020	7440020	Nickel	Nickel	0.000E+00
0021	95476	o-Xylene	o-Xylene	0.000E+00
0022	106423	p-Xylene	p-Xylene	0.000E+00
0023	7782492	Selenium	Selenium	0.000E+00
0024	100425	Styrene	Styrene	0.000E+00
0025	9960	SULFATES	SULFATES	0.000E+00
0026	108883	Toluene	Toluene	0.000E+00
0027	7440622	Vanadium	Vanadium (fume or dust)	0.000E+00
0028	7440666	Zinc	Zinc	0.000E+00

CHEMICAL HEALTH VALUES

CHEM	CAS	ABBREVIATION	CancerPF(Inh) (mg/kg-d)^-1	CancerPF(Oral) (mg/kg-d)^-1	ChronicREL(Inh) ug/m^3	ChronicREL(Oral) mg/kg-d	AcuteREL ug/m^3
0001	107028	Acrolein	*	*	3.50E-01	*	2.50E+00
0002	9901	DieselExhPM	1.10E+00	*	5.00E+00	*	*
0003	106990	1,3-Butadiene	6.00E-01	*	2.00E+01	*	*
0004	75070	Acetaldehyde	1.00E-02	*	1.40E+02	*	4.70E+02
0005	7440382	Arsenic	1.20E+01	1.50E+00	1.50E-02	3.50E-06	2.00E-01
0006	71432	Benzene	1.00E-01	*	6.00E+01	*	1.30E+03
0007	7726956	Bromine	*	*	*	*	*
0008	7440439	Cadmium	1.50E+01	*	2.00E-02	5.00E-04	*
0009	7782505	Chlorine	*	*	2.00E-01	*	2.10E+02
0010	7440473	Chromium	*	*	*	*	*
0011	7440484	Cobalt	*	*	*	*	*
0012	7440508	Copper	*	*	*	*	1.00E+02
0013	50000	Formaldehyde	2.10E-02	*	9.00E+00	*	5.50E+01
0014	7439921	Lead	4.20E-02	8.50E-03	*	*	*
0015	7439965	Manganese	*	*	9.00E-02	*	*
0016	7439976	Mercury	*	*	3.00E-02	1.60E-04	6.00E-01
0017	67561	Methanol	*	*	4.00E+03	*	2.80E+04
0018	108383	m-Xylene	*	*	7.00E+02	*	2.20E+04
0019	91203	Naphthalene	1.20E-01	*	9.00E+00	*	*
0020	7440020	Nickel	9.10E-01	*	5.00E-02	5.00E-02	6.00E+00
0021	95476	o-Xylene	*	*	7.00E+02	*	2.20E+04
0022	106423	p-Xylene	*	*	7.00E+02	*	2.20E+04
0023	7782492	Selenium	*	*	2.00E+01	*	*
0024	100425	Styrene	*	*	9.00E+02	*	2.10E+04
0025	9960	SULFATES	*	*	*	*	1.20E+02
0026	108883	Toluene	*	*	3.00E+02	*	3.70E+04
0027	7440622	Vanadium	*	*	*	*	3.00E+01
0028	7440666	Zinc	*	*	*	*	*

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\ Desktop\WG-JTREE\test\JTREE1.EMS
EMISSION RATES HAVE BEEN MANUALLY EDITED BY USER
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=PM10EXH EMS (lbs/yr)
SOURCE MULTIPLIER=1

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0	5.00E+00	5.60E-04

9901	DieselExhPM	1	0	3.75E+02	4.00E-02
106990	1,3-Butadiene	1	0		7.06E-04
75070	Acetaldehyde	1	0		2.73E-02
7440382	Arsenic	1	0		1.86E-06
71432	Benzene	1	0		7.44E-03
7726956	Bromine	1	0	5.27E-04	3.46E-05
7440439	Cadmium	1	0		1.49E-05
7782505	Chlorine	1	0	7.38E-02	1.56E-04
7440473	Chromium	1	0	5.27E-04	2.80E-05
7440484	Cobalt	1		5.27E-04	2.80E-05
7440508	Copper	1	0	5.27E-04	3.72E-05
50000	Formaldehyde	1	0		5.47E-02
7439921	Lead	1	0		1.56E-05
7439965	Manganese	1	0	5.27E-04	4.28E-05
7439976	Mercury	1	0		1.12E-05
67561	Methanol	1	0		1.12E-04
108383	m-Xylene	1			2.27E-03
91203	Naphthalene	1	0		3.16E-04
7440020	Nickel	1	0	5.27E-04	3.50E-05
95476	o-Xylene	1	0		1.25E-03
106423	p-Xylene	1	0		3.53E-04
7782492	Selenium	1	0		3.72E-06
100425	Styrene	1	0		2.16E-04
9960	SULFATES	1	0	4.74E-01	2.52E-02
108883	Toluene	1	0		5.48E-03
7440622	Vanadium	1	0		1.08E-05
7440666	Zinc	1	0	5.27E-04	2.80E-05

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=ACRLN EMS (lbs/yr)
SOURCE MULTIPLIER=0

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0		
9901	DieselExhPM	1	0		
106990	1,3-Butadiene	1	0		
75070	Acetaldehyde	1	0		
7440382	Arsenic	1	0		
71432	Benzene	1	0		
7726956	Bromine	1	0		
7440439	Cadmium	1	0		
7782505	Chlorine	1	0		
7440473	Chromium	1	0		
7440484	Cobalt	1			
7440508	Copper	1	0		
50000	Formaldehyde	1	0		
7439921	Lead	1	0		
7439965	Manganese	1	0		
7439976	Mercury	1	0		
67561	Methanol	1	0		
108383	m-Xylene	1			
91203	Naphthalene	1	0		
7440020	Nickel	1	0		
95476	o-Xylene	1	0		
106423	p-Xylene	1	0		
7782492	Selenium	1	0		
100425	Styrene	1	0		
9960	SULFATES	1	0		
108883	Toluene	1	0		
7440622	Vanadium	1	0		
7440666	Zinc	1	0		

CHRONIC HI REPORT

REC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
0001	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	2.97E-08	2.53E-04
0002	0.00E+00	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-10	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	3.21E-08	2.73E-04
0003	0.00E+00	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-10	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	3.41E-08	2.90E-04
0004	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	3.59E-08	3.05E-04
0005	0.00E+00	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-10	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	3.70E-08	3.15E-04
0006	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	3.77E-08	3.20E-04
0007	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	3.76E-08	3.20E-04
0008	0.00E+00	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-10	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	3.64E-08	3.09E-04
0009	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	3.39E-08	2.88E-04
0010	0.00E+00	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	2.98E-08	2.54E-04
0011	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-10	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	2.55E-08	2.17E-04
0012	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-10	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	2.14E-08	1.82E-04
0013	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	1.82E-08	1.55E-04

0014	0.00E+00	8.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-10	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	1.59E-08	1.35E-04
0015	0.00E+00	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-10	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	1.43E-08	1.22E-04
0016	0.00E+00	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-11	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	1.28E-08	1.09E-04
0017	0.00E+00	6.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-11	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	1.16E-08	9.90E-05
0018	0.00E+00	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-11	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	1.05E-08	8.96E-05
0019	0.00E+00	5.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-11	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	9.57E-09	8.14E-05
0020	0.00E+00	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-11	0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	8.72E-09	7.42E-05
0021	0.00E+00	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-11	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	8.01E-09	6.81E-05
0022	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-10	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	3.12E-08	2.65E-04
0023	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-10	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	3.41E-08	2.90E-04
0024	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	3.69E-08	3.14E-04
0025	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.94E-08	3.36E-04
0026	0.00E+00	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-10	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	4.13E-08	3.51E-04
0027	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	4.27E-08	3.63E-04
0028	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-10	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	4.35E-08	3.70E-04
0029	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-10	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	4.30E-08	3.66E-04
0030	0.00E+00	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-10	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	4.10E-08	3.49E-04
0031	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	3.69E-08	3.14E-04
0032	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-10	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	3.15E-08	2.68E-04
0033	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-10	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	2.60E-08	2.22E-04
0034	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-10	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	2.17E-08	1.84E-04
0035	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-10	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	1.86E-08	1.58E-04
0036	0.00E+00	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-10	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	1.64E-08	1.40E-04
0037	0.00E+00	8.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-10	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	1.46E-08	1.24E-04
0038	0.00E+00	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-11	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	1.31E-08	1.11E-04
0039	0.00E+00	6.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-11	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	1.17E-08	9.98E-05
0040	0.00E+00	5.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-11	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	1.06E-08	9.01E-05
0041	0.00E+00	5.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-11	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	9.61E-09	8.18E-05
0042	0.00E+00	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-11	0.00E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	8.83E-09	7.51E-05
0043	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-10	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	3.25E-08	2.76E-04
0044	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-10	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	3.60E-08	3.06E-04
0045	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.94E-08	3.36E-04
0046	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-10	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	4.28E-08	3.64E-04
0047	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-10	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	4.57E-08	3.88E-04
0048	0.00E+00	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	4.81E-08	4.09E-04
0049	0.00E+00	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	5.01E-08	4.26E-04
0050	0.00E+00	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-10	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	5.11E-08	4.35E-04
0051	0.00E+00	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-10	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	5.01E-08	4.27E-04
0052	0.00E+00	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	4.62E-08	3.93E-04
0053	0.00E+00	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-10	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	3.98E-08	3.38E-04
0054	0.00E+00	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-10	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	3.27E-08	2.78E-04
0055	0.00E+00	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-10	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	2.65E-08	2.26E-04
0056	0.00E+00	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-10	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	2.21E-08	1.88E-04
0057	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-10	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	1.93E-08	1.64E-04
0058	0.00E+00	9.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-10	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	1.69E-08	1.44E-04
0059	0.00E+00	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-10	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	1.49E-08	1.27E-04
0060	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-11	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	1.32E-08	1.13E-04
0061	0.00E+00	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-11	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	1.18E-08	1.01E-04
0062	0.00E+00	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-11	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	1.07E-08	9.14E-05
0063	0.00E+00	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-11	0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	9.89E-09	8.41E-05
0064	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	3.35E-08	2.85E-04
0065	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	3.76E-08	3.20E-04
0066	0.00E+00	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-10	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	4.19E-08	3.57E-04
0067	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-10	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	4.61E-08	3.92E-04
0068	0.00E+00	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-10	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	5.00E-08	4.25E-04
0069	0.00E+00	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-10	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	5.36E-08	4.56E-04
0070	0.00E+00	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-10	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	5.74E-08	4.88E-04
0071	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-10	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	6.07E-08	5.16E-04
0072	0.00E+00	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	6.18E-08	5.26E-04
0073	0.00E+00	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-10	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	5.89E-08	5.01E-04
0074	0.00E+00	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	5.18E-08	4.41E-04
0075	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	4.29E-08	3.65E-04
0076	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	3.39E-08	2.88E-04
0077	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-10	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	2.72E-08	2.32E-04
0078	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-10	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	2.32E-08	1.97E-04
0079	0.00E+00	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-10	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	1.99E-08	1.69E-04
0080	0.00E+00	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-10	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	1.72E-08	1.47E-04
0081	0.00E+00	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-10	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	1.52E-08	1.29E-04
0082	0.00E+00	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-11	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	1.35E-08	1.15E-04
0083	0.00E+00	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-11	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	1.22E-08	1.03E-04
0084	0.00E+00	6.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-11	0.00E+00	0.00E+00	0.00E+00	9.40E-05	0.00E+00	1.11E-08	9.40E-05
0085	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-10	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	3.45E-08	2.94E-04
0086	0.00E+00	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	3.92E-08	3.33E-04
0087	0.00E+00	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-10	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	4.42E-08	3.76E-04
0088	0.00E+00	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-10	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	4.93E-08	4.19E-04

0089	0.00E+00	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-10	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	5.44E-08	4.63E-04
0090	0.00E+00	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-10	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	5.93E-08	5.04E-04
0091	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-10	0.00E+00	0.00E+00	0.00E+00	5.52E-04	0.00E+00	6.48E-08	5.52E-04
0092	0.00E+00	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-10	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	7.13E-08	6.06E-04
0093	0.00E+00	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-10	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	7.64E-08	6.50E-04
0094	0.00E+00	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-10	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	7.70E-08	6.55E-04
0095	0.00E+00	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-10	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	7.02E-08	5.97E-04
0096	0.00E+00	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-10	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	5.96E-08	5.07E-04
0097	0.00E+00	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	4.62E-08	3.93E-04
0098	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-10	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	3.52E-08	3.00E-04
0099	0.00E+00	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	2.88E-08	2.45E-04
0100	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-10	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	2.42E-08	2.06E-04
0101	0.00E+00	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-10	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	2.05E-08	1.75E-04
0102	0.00E+00	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-10	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	1.77E-08	1.51E-04
0103	0.00E+00	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-10	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	1.55E-08	1.32E-04
0104	0.00E+00	7.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-11	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	1.37E-08	1.17E-04
0105	0.00E+00	6.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-11	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	1.22E-08	1.04E-04
0106	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	3.53E-08	3.01E-04
0107	0.00E+00	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-10	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	4.06E-08	3.46E-04
0108	0.00E+00	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-10	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	4.67E-08	3.97E-04
0109	0.00E+00	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-10	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	5.29E-08	4.50E-04
0110	0.00E+00	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-10	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	5.90E-08	5.02E-04
0111	0.00E+00	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-10	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	6.50E-08	5.53E-04
0112	0.00E+00	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-10	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	7.21E-08	6.13E-04
0113	0.00E+00	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-10	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	8.16E-08	6.94E-04
0114	0.00E+00	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-10	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	9.32E-08	7.93E-04
0115	0.00E+00	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-10	0.00E+00	0.00E+00	0.00E+00	8.70E-04	0.00E+00	1.02E-07	8.70E-04
0116	0.00E+00	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-10	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	9.96E-08	8.47E-04
0117	0.00E+00	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-10	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	8.84E-08	7.52E-04
0118	0.00E+00	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-10	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	6.97E-08	5.93E-04
0119	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	4.98E-08	4.23E-04
0120	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	3.84E-08	3.26E-04
0121	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-10	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	3.06E-08	2.60E-04
0122	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-10	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	2.50E-08	2.12E-04
0123	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-10	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	2.09E-08	1.77E-04
0124	0.00E+00	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-10	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	1.77E-08	1.50E-04
0125	0.00E+00	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-10	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	1.52E-08	1.29E-04
0126	0.00E+00	7.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-11	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.32E-08	1.12E-04
0127	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	3.59E-08	3.05E-04
0128	0.00E+00	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-10	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	4.20E-08	3.58E-04
0129	0.00E+00	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-10	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	4.92E-08	4.19E-04
0130	0.00E+00	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-10	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	5.65E-08	4.81E-04
0131	0.00E+00	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-10	0.00E+00	0.00E+00	0.00E+00	5.48E-04	0.00E+00	6.44E-08	5.48E-04
0132	0.00E+00	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-10	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	7.18E-08	6.11E-04
0133	0.00E+00	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-10	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	8.02E-08	6.82E-04
0134	0.00E+00	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-10	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	9.23E-08	7.85E-04
0135	0.00E+00	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-10	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	1.11E-07	9.45E-04
0136	0.00E+00	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-10	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	1.39E-07	1.18E-03
0137	0.00E+00	8.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	1.53E-07	1.30E-03
0138	0.00E+00	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	1.47E-07	1.25E-03
0139	0.00E+00	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-10	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	1.24E-07	1.05E-03
0140	0.00E+00	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-10	0.00E+00	0.00E+00	0.00E+00	7.38E-04	0.00E+00	8.68E-08	7.38E-04
0141	0.00E+00	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-10	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	5.61E-08	4.78E-04
0142	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	4.03E-08	3.43E-04
0143	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	3.05E-08	2.59E-04
0144	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-10	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	2.41E-08	2.05E-04
0145	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-10	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	1.97E-08	1.68E-04
0146	0.00E+00	9.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-10	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	1.65E-08	1.40E-04
0147	0.00E+00	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-11	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	1.40E-08	1.19E-04
0148	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-10	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	3.61E-08	3.07E-04
0149	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-10	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	4.31E-08	3.67E-04
0150	0.00E+00	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-10	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	5.15E-08	4.38E-04
0151	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-10	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	6.13E-08	5.21E-04
0152	0.00E+00	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-10	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	7.13E-08	6.07E-04
0153	0.00E+00	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-10	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	8.07E-08	6.86E-04
0154	0.00E+00	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-10	0.00E+00	0.00E+00	0.00E+00	7.70E-04	0.00E+00	9.05E-08	7.70E-04
0155	0.00E+00	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-10	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	1.05E-07	8.91E-04
0156	0.00E+00	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-10	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	1.30E-07	1.10E-03
0157	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	1.84E-07	1.56E-03
0158	0.00E+00	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-09	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	3.16E-07	2.69E-03
0159	0.00E+00	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-09	0.00E+00	0.00E+00	0.00E+00	3.25E-03	0.00E+00	3.82E-07	3.25E-03
0160	0.00E+00	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-09	0.00E+00	0.00E+00	0.00E+00	3.08E-03	0.00E+00	3.62E-07	3.08E-03
0161	0.00E+00	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-09	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	3.08E-07	2.62E-03
0162	0.00E+00	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-10	0.00E+00	0.00E+00	0.00E+00	9.11E-04	0.00E+00	1.07E-07	9.11E-04
0163	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-10	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	5.49E-08	4.67E-04

0164	0.00E+00	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	3.72E-08	3.17E-04
0165	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-10	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	2.79E-08	2.37E-04
0166	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-10	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	2.20E-08	1.87E-04
0167	0.00E+00	9.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-10	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	1.79E-08	1.52E-04
0168	0.00E+00	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-10	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	1.49E-08	1.27E-04
0169	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	3.59E-08	3.05E-04
0170	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-10	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	4.36E-08	3.71E-04
0171	0.00E+00	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-10	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	5.35E-08	4.55E-04
0172	0.00E+00	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-10	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	6.57E-08	5.59E-04
0173	0.00E+00	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-10	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	7.99E-08	6.80E-04
0174	0.00E+00	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-10	0.00E+00	0.00E+00	0.00E+00	7.88E-04	0.00E+00	9.27E-08	7.88E-04
0175	0.00E+00	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-10	0.00E+00	0.00E+00	0.00E+00	8.94E-04	0.00E+00	1.05E-07	8.94E-04
0176	0.00E+00	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-10	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	1.21E-07	1.03E-03
0177	0.00E+00	8.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	1.50E-07	1.28E-03
0178	0.00E+00	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-09	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	2.22E-07	1.89E-03
0179	0.00E+00	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	2.46E-07	2.10E-03
0180	0.00E+00	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-10	0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	8.13E-08	6.92E-04
0181	0.00E+00	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-10	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	4.70E-08	4.00E-04
0182	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	3.25E-08	2.77E-04
0183	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-10	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	2.44E-08	2.08E-04
0184	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-10	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	1.92E-08	1.64E-04
0185	0.00E+00	8.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-10	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	1.57E-08	1.33E-04
0186	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-10	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	3.49E-08	2.97E-04
0187	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	4.29E-08	3.65E-04
0188	0.00E+00	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-10	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	5.41E-08	4.60E-04
0189	0.00E+00	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-10	0.00E+00	0.00E+00	0.00E+00	5.91E-04	0.00E+00	6.95E-08	5.91E-04
0190	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-10	0.00E+00	0.00E+00	0.00E+00	7.56E-04	0.00E+00	8.88E-08	7.56E-04
0191	0.00E+00	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-10	0.00E+00	0.00E+00	0.00E+00	9.28E-04	0.00E+00	1.09E-07	9.28E-04
0192	0.00E+00	6.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-10	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	1.25E-07	1.06E-03
0193	0.00E+00	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	1.42E-07	1.21E-03
0194	0.00E+00	9.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	1.71E-07	1.46E-03
0195	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	2.45E-07	2.09E-03
0196	0.00E+00	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-09	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	3.05E-07	2.59E-03
0197	0.00E+00	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-10	0.00E+00	0.00E+00	0.00E+00	9.38E-04	0.00E+00	1.10E-07	9.38E-04
0198	0.00E+00	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-10	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	5.96E-08	5.07E-04
0199	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	3.84E-08	3.26E-04
0200	0.00E+00	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-10	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	2.74E-08	2.33E-04
0201	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-10	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	2.08E-08	1.77E-04
0202	0.00E+00	9.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-10	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	1.65E-08	1.41E-04
0203	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-10	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	3.39E-08	2.89E-04
0204	0.00E+00	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-10	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	4.20E-08	3.57E-04
0205	0.00E+00	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-10	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	5.34E-08	4.54E-04
0206	0.00E+00	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-10	0.00E+00	0.00E+00	0.00E+00	6.00E-04	0.00E+00	7.05E-08	6.00E-04
0207	0.00E+00	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-10	0.00E+00	0.00E+00	0.00E+00	8.24E-04	0.00E+00	9.69E-08	8.24E-04
0208	0.00E+00	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-10	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	1.31E-07	1.11E-03
0209	0.00E+00	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	1.59E-07	1.35E-03
0210	0.00E+00	9.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	1.79E-07	1.53E-03
0211	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	2.05E-07	1.75E-03
0212	0.00E+00	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-09	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	2.70E-07	2.29E-03
0213	0.00E+00	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-09	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	3.35E-07	2.85E-03
0214	0.00E+00	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-10	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	1.32E-07	1.12E-03
0215	0.00E+00	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-10	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	7.18E-08	6.11E-04
0216	0.00E+00	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-10	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	4.49E-08	3.82E-04
0217	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	3.09E-08	2.63E-04
0218	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-10	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	2.28E-08	1.94E-04
0219	0.00E+00	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-10	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	1.77E-08	1.50E-04
0220	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	3.36E-08	2.85E-04
0221	0.00E+00	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-10	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	4.09E-08	3.48E-04
0222	0.00E+00	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	5.21E-08	4.43E-04
0223	0.00E+00	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-10	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	7.01E-08	5.97E-04
0224	0.00E+00	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-10	0.00E+00	0.00E+00	0.00E+00	8.54E-04	0.00E+00	1.00E-07	8.54E-04
0225	0.00E+00	8.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	1.58E-07	1.34E-03
0226	0.00E+00	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-09	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	2.42E-07	2.06E-03
0227	0.00E+00	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	2.84E-07	2.42E-03
0228	0.00E+00	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-09	0.00E+00	0.00E+00	0.00E+00	2.68E-03	0.00E+00	3.15E-07	2.68E-03
0229	0.00E+00	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-03	0.00E+00	3.63E-07	3.09E-03
0230	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-09	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	3.47E-07	2.95E-03
0231	0.00E+00	8.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	1.45E-07	1.23E-03
0232	0.00E+00	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-10	0.00E+00	0.00E+00	0.00E+00	6.91E-04	0.00E+00	8.12E-08	6.91E-04
0233	0.00E+00	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-10	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	5.11E-08	4.35E-04
0234	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-10	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	3.47E-08	2.95E-04
0235	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-10	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	2.51E-08	2.14E-04
0236	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	1.91E-08	1.63E-04
0237	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	3.34E-08	2.84E-04
0238	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	4.03E-08	3.43E-04

0239	0.00E+00	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-10	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	5.08E-08	4.32E-04
0240	0.00E+00	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-10	0.00E+00	0.00E+00	0.00E+00	5.83E-04	0.00E+00	6.85E-08	5.83E-04
0241	0.00E+00	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-10	0.00E+00	0.00E+00	0.00E+00	8.64E-04	0.00E+00	1.02E-07	8.64E-04
0242	0.00E+00	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-09	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	1.77E-07	1.51E-03
0243	0.00E+00	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-09	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	3.52E-07	2.99E-03
0244	0.00E+00	8.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	1.51E-07	1.28E-03
0245	0.00E+00	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-10	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	8.72E-08	7.42E-04
0246	0.00E+00	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-10	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	5.59E-08	4.76E-04
0247	0.00E+00	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	3.82E-08	3.25E-04
0248	0.00E+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-10	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	2.76E-08	2.35E-04
0249	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-10	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	2.09E-08	1.78E-04
0250	0.00E+00	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-10	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	3.30E-08	2.81E-04
0251	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.95E-08	3.36E-04
0252	0.00E+00	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-10	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	4.92E-08	4.18E-04
0253	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-10	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	6.47E-08	5.51E-04
0254	0.00E+00	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-10	0.00E+00	0.00E+00	0.00E+00	8.07E-04	0.00E+00	9.49E-08	8.07E-04
0255	0.00E+00	9.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-09	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	1.71E-07	1.46E-03
0256	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-09	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	3.48E-07	2.96E-03
0257	0.00E+00	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	1.52E-07	1.30E-03
0258	0.00E+00	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-10	0.00E+00	0.00E+00	0.00E+00	7.67E-04	0.00E+00	9.02E-08	7.67E-04
0259	0.00E+00	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	5.92E-08	5.04E-04
0260	0.00E+00	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-10	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	4.13E-08	3.51E-04
0261	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-10	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	3.02E-08	2.57E-04
0262	0.00E+00	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-10	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	2.30E-08	1.95E-04
0263	0.00E+00	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-10	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	3.20E-08	2.72E-04
0264	0.00E+00	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-10	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	3.79E-08	3.22E-04
0265	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-10	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	4.60E-08	3.91E-04
0266	0.00E+00	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-10	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	5.90E-08	5.02E-04
0267	0.00E+00	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-10	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	8.23E-08	7.00E-04
0268	0.00E+00	8.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	1.45E-07	1.23E-03
0269	0.00E+00	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-09	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	3.37E-07	2.87E-03
0270	0.00E+00	8.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-09	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	1.49E-07	1.27E-03
0271	0.00E+00	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-10	0.00E+00	0.00E+00	0.00E+00	7.71E-04	0.00E+00	9.06E-08	7.71E-04
0272	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-10	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	6.13E-08	5.21E-04
0273	0.00E+00	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-10	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	4.38E-08	3.73E-04
0274	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	3.26E-08	2.77E-04
0275	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-10	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	2.49E-08	2.12E-04
0276	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	2.97E-08	2.53E-04
0277	0.00E+00	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-10	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	3.43E-08	2.92E-04
0278	0.00E+00	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-10	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	4.08E-08	3.47E-04
0279	0.00E+00	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-10	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	5.03E-08	4.28E-04
0280	0.00E+00	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-10	0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	6.68E-08	5.68E-04
0281	0.00E+00	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-10	0.00E+00	0.00E+00	0.00E+00	9.02E-04	0.00E+00	1.06E-07	9.02E-04
0282	0.00E+00	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-09	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	3.03E-07	2.58E-03
0283	0.00E+00	7.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-10	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	1.41E-07	1.20E-03
0284	0.00E+00	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-10	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	8.88E-08	7.55E-04
0285	0.00E+00	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	6.18E-08	5.26E-04
0286	0.00E+00	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-10	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	4.53E-08	3.85E-04
0287	0.00E+00	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	3.43E-08	2.91E-04
0288	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-10	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	2.66E-08	2.26E-04
0289	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-10	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	2.61E-08	2.22E-04
0290	0.00E+00	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	2.94E-08	2.50E-04
0291	0.00E+00	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	3.37E-08	2.87E-04
0292	0.00E+00	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	3.98E-08	3.39E-04
0293	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-10	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	4.96E-08	4.22E-04
0294	0.00E+00	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-10	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	6.70E-08	5.70E-04
0295	0.00E+00	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-10	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	1.08E-07	9.15E-04
0296	0.00E+00	9.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	1.67E-07	1.42E-03
0297	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-09	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	2.07E-07	1.76E-03
0298	0.00E+00	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-09	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	2.29E-07	1.95E-03
0299	0.00E+00	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-09	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	2.42E-07	2.06E-03
0300	0.00E+00	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	2.50E-07	2.13E-03
0301	0.00E+00	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-09	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	2.48E-07	2.11E-03
0302	0.00E+00	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-09	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	2.35E-07	2.00E-03
0303	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-09	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	1.85E-07	1.58E-03
0304	0.00E+00	6.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-10	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	1.22E-07	1.03E-03
0305	0.00E+00	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-10	0.00E+00	0.00E+00	0.00E+00	7.11E-04	0.00E+00	8.35E-08	7.11E-04
0306	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-10	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	6.06E-08	5.16E-04
0307	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-10	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	4.57E-08	3.89E-04
0308	0.00E+00	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	3.54E-08	3.01E-04
0309	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-10	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	2.79E-08	2.38E-04
0310	0.00E+00	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-10	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	2.22E-08	1.89E-04
0311	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-10	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	2.43E-08	2.07E-04
0312	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-10	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	2.70E-08	2.30E-04
0313	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	3.09E-08	2.63E-04

0314	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	3.70E-08	3.14E-04
0315	0.00E+00	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-10	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	4.65E-08	3.96E-04
0316	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-10	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	6.13E-08	5.21E-04
0317	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-10	0.00E+00	0.00E+00	0.00E+00	7.05E-04	0.00E+00	8.29E-08	7.05E-04
0318	0.00E+00	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-10	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	1.04E-07	8.83E-04
0319	0.00E+00	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-10	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.20E-07	1.02E-03
0320	0.00E+00	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-10	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	1.31E-07	1.11E-03
0321	0.00E+00	7.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-10	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	1.37E-07	1.16E-03
0322	0.00E+00	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-10	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	1.37E-07	1.17E-03
0323	0.00E+00	7.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-10	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	1.31E-07	1.12E-03
0324	0.00E+00	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-10	0.00E+00	0.00E+00	0.00E+00	9.98E-04	0.00E+00	1.17E-07	9.98E-04
0325	0.00E+00	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-10	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	9.55E-08	8.12E-04
0326	0.00E+00	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-10	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	7.41E-08	6.30E-04
0327	0.00E+00	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-10	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	5.73E-08	4.87E-04
0328	0.00E+00	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-10	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	4.49E-08	3.82E-04
0329	0.00E+00	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-10	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	3.57E-08	3.03E-04
0330	0.00E+00	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	2.87E-08	2.45E-04
0331	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-10	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	1.84E-08	1.57E-04
0332	0.00E+00	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-10	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	1.99E-08	1.69E-04
0333	0.00E+00	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-10	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	2.18E-08	1.85E-04
0334	0.00E+00	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-10	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	2.48E-08	2.11E-04
0335	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	2.91E-08	2.48E-04
0336	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-10	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	3.50E-08	2.98E-04
0337	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	4.30E-08	3.65E-04
0338	0.00E+00	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-10	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	5.33E-08	4.54E-04
0339	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-10	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	6.48E-08	5.51E-04
0340	0.00E+00	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-10	0.00E+00	0.00E+00	0.00E+00	6.40E-04	0.00E+00	7.52E-08	6.40E-04
0341	0.00E+00	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-10	0.00E+00	0.00E+00	0.00E+00	7.08E-04	0.00E+00	8.33E-08	7.08E-04
0342	0.00E+00	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-10	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	8.84E-08	7.52E-04
0343	0.00E+00	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-10	0.00E+00	0.00E+00	0.00E+00	7.68E-04	0.00E+00	9.02E-08	7.68E-04
0344	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-10	0.00E+00	0.00E+00	0.00E+00	7.54E-04	0.00E+00	8.86E-08	7.54E-04
0345	0.00E+00	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-10	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	8.32E-08	7.07E-04
0346	0.00E+00	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-10	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	7.39E-08	6.29E-04
0347	0.00E+00	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-10	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	6.29E-08	5.35E-04
0348	0.00E+00	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-10	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	5.21E-08	4.43E-04
0349	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	4.27E-08	3.63E-04
0350	0.00E+00	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-10	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	3.51E-08	2.98E-04
0351	0.00E+00	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-10	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	2.89E-08	2.46E-04
0352	0.00E+00	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-10	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	1.53E-08	1.31E-04
0353	0.00E+00	9.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-10	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	1.65E-08	1.40E-04
0354	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	1.82E-08	1.55E-04
0355	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-10	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	2.08E-08	1.77E-04
0356	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-10	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	2.41E-08	2.05E-04
0357	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-10	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	2.81E-08	2.39E-04
0358	0.00E+00	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-10	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	3.30E-08	2.80E-04
0359	0.00E+00	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	3.91E-08	3.33E-04
0360	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-10	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	4.57E-08	3.89E-04
0361	0.00E+00	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-10	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	5.23E-08	4.45E-04
0362	0.00E+00	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-10	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	5.79E-08	4.93E-04
0363	0.00E+00	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-10	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	6.20E-08	5.27E-04
0364	0.00E+00	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-10	0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	6.43E-08	5.47E-04
0365	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-10	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	6.47E-08	5.51E-04
0366	0.00E+00	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-10	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	6.27E-08	5.33E-04
0367	0.00E+00	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	5.84E-08	4.97E-04
0368	0.00E+00	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-10	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	5.27E-08	4.48E-04
0369	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	4.61E-08	3.93E-04
0370	0.00E+00	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-10	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	3.96E-08	3.37E-04
0371	0.00E+00	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	3.37E-08	2.87E-04
0372	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-10	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	2.85E-08	2.43E-04
0373	0.00E+00	7.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-11	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.31E-08	1.12E-04
0374	0.00E+00	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-10	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	1.43E-08	1.22E-04
0375	0.00E+00	8.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-10	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	1.60E-08	1.36E-04
0376	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	1.82E-08	1.55E-04
0377	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-10	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	2.07E-08	1.76E-04
0378	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-10	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	2.35E-08	2.00E-04
0379	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-10	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	2.69E-08	2.29E-04
0380	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-10	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	3.08E-08	2.62E-04
0381	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-10	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	3.49E-08	2.97E-04
0382	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-10	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	3.90E-08	3.31E-04
0383	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-10	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	4.28E-08	3.64E-04
0384	0.00E+00	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-10	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	4.59E-08	3.91E-04
0385	0.00E+00	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-10	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	4.83E-08	4.11E-04
0386	0.00E+00	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-10	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	4.95E-08	4.21E-04
0387	0.00E+00	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-10	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	4.90E-08	4.17E-04
0388	0.00E+00	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-10	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	4.71E-08	4.01E-04

0389	0.00E+00	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-10	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	4.41E-08	3.75E-04
0390	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	4.03E-08	3.43E-04
0391	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-10	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	3.60E-08	3.07E-04
0392	0.00E+00	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-10	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	3.17E-08	2.70E-04
0393	0.00E+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-10	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	2.76E-08	2.35E-04
0394	0.00E+00	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-09	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	4.72E-07	4.02E-03
0395	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	1.85E-07	1.57E-03
0396	0.00E+00	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-09	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	2.62E-07	2.23E-03
0397	0.00E+00	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-09	0.00E+00	0.00E+00	0.00E+00	4.92E-03	0.00E+00	5.78E-07	4.92E-03
0398	0.00E+00	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-09	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	2.84E-07	2.41E-03
0399	0.00E+00	8.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-09	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	1.61E-07	1.37E-03
0400	0.00E+00	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-09	0.00E+00	0.00E+00	0.00E+00	4.16E-03	0.00E+00	4.89E-07	4.16E-03

RESIDENTIAL AND WORKER- ACUTE RISK

This file: Rep_Acu_AllRec_AllSrc_AllCh_ByRec.txt

Created by HARP Version 1.4e Build 23.10.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 7/17/2012 2:12:37 PM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\ Desktop\WG-JTREE\test\JTREE.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: none
Site parameters file: C:\ Desktop\WG-JTREE\test\project.sit

Coordinate system: UTM NAD83

Screening mode is OFF

Analysis method: Point Estimate
Health effect: Acute HI Simple (Concurrent Max.)
Receptor(s): All
Sources(s): All
Chemicals(s): All

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	107028	Acrolein	Acrolein	0.000E+00
0002	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0003	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0004	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0005	7440382	Arsenic	Arsenic	0.000E+00
0006	71432	Benzene	Benzene	0.000E+00
0007	7726956	Bromine	Bromine	0.000E+00
0008	7440439	Cadmium	Cadmium	0.000E+00
0009	7782505	Chlorine	Chlorine	0.000E+00
0010	7440473	Chromium	Chromium	0.000E+00
0011	7440484	Cobalt	Cobalt	0.000E+00
0012	7440508	Copper	Copper	0.000E+00
0013	50000	Formaldehyde	Formaldehyde	0.000E+00
0014	7439921	Lead	Lead	0.000E+00
0015	7439965	Manganese	Manganese	0.000E+00
0016	7439976	Mercury	Mercury	0.000E+00
0017	67561	Methanol	Methanol	0.000E+00
0018	108383	m-Xylene	m-Xylene	0.000E+00
0019	91203	Naphthalene	Naphthalene	0.000E+00
0020	7440020	Nickel	Nickel	0.000E+00
0021	95476	o-Xylene	o-Xylene	0.000E+00
0022	106423	p-Xylene	p-Xylene	0.000E+00
0023	7782492	Selenium	Selenium	0.000E+00
0024	100425	Styrene	Styrene	0.000E+00
0025	9960	SULFATES	SULFATES	0.000E+00
0026	108883	Toluene	Toluene	0.000E+00
0027	7440622	Vanadium	Vanadium (fume or dust)	0.000E+00
0028	7440666	Zinc	Zinc	0.000E+00

CHEMICAL HEALTH VALUES

CHEM	CAS	ABBREVIATION	CancerPF(Inh) (mg/kg-d)^-1	CancerPF(Oral) (mg/kg-d)^-1	ChronicREL(Inh) ug/m^3	ChronicREL(Oral) mg/kg-d	AcuteREL ug/m^3
0001	107028	Acrolein	*	*	3.50E-01	*	2.50E+00
0002	9901	DieselExhPM	1.10E+00	*	5.00E+00	*	*
0003	106990	1,3-Butadiene	6.00E-01	*	2.00E+01	*	*
0004	75070	Acetaldehyde	1.00E-02	*	1.40E+02	*	4.70E+02
0005	7440382	Arsenic	1.20E+01	1.50E+00	1.50E-02	3.50E-06	2.00E-01
0006	71432	Benzene	1.00E-01	*	6.00E+01	*	1.30E+03
0007	7726956	Bromine	*	*	*	*	*
0008	7440439	Cadmium	1.50E+01	*	2.00E-02	5.00E-04	*
0009	7782505	Chlorine	*	*	2.00E-01	*	2.10E+02
0010	7440473	Chromium	*	*	*	*	*
0011	7440484	Cobalt	*	*	*	*	*

0012	7440508	Copper	*	*	*	*	1.00E+02
0013	50000	Formaldehyde	2.10E-02	*	9.00E+00	*	5.50E+01
0014	7439921	Lead	4.20E-02	8.50E-03	*	*	*
0015	7439965	Manganese	*	*	9.00E-02	*	*
0016	7439976	Mercury	*	*	3.00E-02	1.60E-04	6.00E-01
0017	67561	Methanol	*	*	4.00E+03	*	2.80E+04
0018	108383	m-Xylene	*	*	7.00E+02	*	2.20E+04
0019	91203	Naphthalene	1.20E-01	*	9.00E+00	*	*
0020	7440020	Nickel	9.10E-01	*	5.00E-02	5.00E-02	6.00E+00
0021	95476	o-Xylene	*	*	7.00E+02	*	2.20E+04
0022	106423	p-Xylene	*	*	7.00E+02	*	2.20E+04
0023	7782492	Selenium	*	*	2.00E+01	*	*
0024	100425	Styrene	*	*	9.00E+02	*	2.10E+04
0025	9960	SULFATES	*	*	*	*	1.20E+02
0026	108883	Toluene	*	*	3.00E+02	*	3.70E+04
0027	7440622	Vanadium	*	*	*	*	3.00E+01
0028	7440666	Zinc	*	*	*	*	*

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\ Desktop\WG-JTREE\test\JTREE1.EMS
EMISSION RATES HAVE BEEN MANUALLY EDITED BY USER
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=PM10EXH EMS (lbs/yr)
SOURCE MULTIPLIER=1

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0	5.00E+00	5.60E-04
9901	DieselExhPM	1	0	3.75E+02	4.00E-02
106990	1,3-Butadiene	1	0		7.06E-04
75070	Acetaldehyde	1	0		2.73E-02
7440382	Arsenic	1	0		1.86E-06
71432	Benzene	1	0		7.44E-03
7726956	Bromine	1	0	5.27E-04	3.46E-05
7440439	Cadmium	1	0		1.49E-05
7782505	Chlorine	1	0	7.38E-02	1.56E-04
7440473	Chromium	1	0	5.27E-04	2.80E-05
7440484	Cobalt	1		5.27E-04	2.80E-05
7440508	Copper	1	0	5.27E-04	3.72E-05
50000	Formaldehyde	1	0		5.47E-02
7439921	Lead	1	0		1.56E-05
7439965	Manganese	1	0	5.27E-04	4.28E-05
7439976	Mercury	1	0		1.12E-05
67561	Methanol	1	0		1.12E-04
108383	m-Xylene	1			2.27E-03
91203	Naphthalene	1	0		3.16E-04
7440020	Nickel	1	0	5.27E-04	3.50E-05
95476	o-Xylene	1	0		1.25E-03
106423	p-Xylene	1	0		3.53E-04
7782492	Selenium	1	0		3.72E-06
100425	Styrene	1	0		2.16E-04
9960	SULFATES	1	0	4.74E-01	2.52E-02
108883	Toluene	1	0		5.48E-03
7440622	Vanadium	1	0		1.08E-05
7440666	Zinc	1	0	5.27E-04	2.80E-05

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=ACRLN EMS (lbs/yr)
SOURCE MULTIPLIER=0

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0		
9901	DieselExhPM	1	0		
106990	1,3-Butadiene	1	0		
75070	Acetaldehyde	1	0		
7440382	Arsenic	1	0		
71432	Benzene	1	0		
7726956	Bromine	1	0		
7440439	Cadmium	1	0		
7782505	Chlorine	1	0		
7440473	Chromium	1	0		
7440484	Cobalt	1			
7440508	Copper	1	0		
50000	Formaldehyde	1	0		
7439921	Lead	1	0		
7439965	Manganese	1	0		
7439976	Mercury	1	0		
67561	Methanol	1	0		
108383	m-Xylene	1			

91203	Naphthalene	1	0
7440020	Nickel	1	0
95476	o-Xylene	1	0
106423	p-Xylene	1	0
7782492	Selenium	1	0
100425	Styrene	1	0
9960	SULFATES	1	0
108883	Toluene	1	0
7440622	Vanadium	1	0
7440666	Zinc	1	0

ACUTE HI REPORT

REC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
0001	2.96E-05	8.94E-05	0.00E+00	1.08E-04	0.00E+00	4.06E-03	0.00E+00	3.67E-05	0.00E+00	1.87E-05	1.59E-03	0.00E+00	1.82E-05	4.06E-03
0002	3.15E-05	9.51E-05	0.00E+00	1.14E-04	0.00E+00	4.32E-03	0.00E+00	3.91E-05	0.00E+00	1.99E-05	1.69E-03	0.00E+00	1.94E-05	4.32E-03
0003	3.36E-05	1.01E-04	0.00E+00	1.22E-04	0.00E+00	4.61E-03	0.00E+00	4.17E-05	0.00E+00	2.12E-05	1.80E-03	0.00E+00	2.07E-05	4.61E-03
0004	3.65E-05	1.10E-04	0.00E+00	1.33E-04	0.00E+00	5.02E-03	0.00E+00	4.54E-05	0.00E+00	2.31E-05	1.96E-03	0.00E+00	2.25E-05	5.02E-03
0005	3.97E-05	1.20E-04	0.00E+00	1.44E-04	0.00E+00	5.45E-03	0.00E+00	4.93E-05	0.00E+00	2.51E-05	2.13E-03	0.00E+00	2.44E-05	5.45E-03
0006	4.31E-05	1.30E-04	0.00E+00	1.57E-04	0.00E+00	5.92E-03	0.00E+00	5.36E-05	0.00E+00	2.72E-05	2.32E-03	0.00E+00	2.65E-05	5.92E-03
0007	4.72E-05	1.43E-04	0.00E+00	1.72E-04	0.00E+00	6.48E-03	0.00E+00	5.86E-05	0.00E+00	2.98E-05	2.53E-03	0.00E+00	2.90E-05	6.48E-03
0008	5.11E-05	1.55E-04	0.00E+00	1.86E-04	0.00E+00	7.02E-03	0.00E+00	6.35E-05	0.00E+00	3.23E-05	2.75E-03	0.00E+00	3.15E-05	7.02E-03
0009	5.41E-05	1.64E-04	0.00E+00	1.97E-04	0.00E+00	7.43E-03	0.00E+00	6.72E-05	0.00E+00	3.41E-05	2.91E-03	0.00E+00	3.33E-05	7.43E-03
0010	5.64E-05	1.70E-04	0.00E+00	2.05E-04	0.00E+00	7.75E-03	0.00E+00	7.01E-05	0.00E+00	3.56E-05	3.03E-03	0.00E+00	3.47E-05	7.75E-03
0011	5.74E-05	1.74E-04	0.00E+00	2.09E-04	0.00E+00	7.89E-03	0.00E+00	7.13E-05	0.00E+00	3.62E-05	3.09E-03	0.00E+00	3.53E-05	7.89E-03
0012	5.82E-05	1.76E-04	0.00E+00	2.12E-04	0.00E+00	8.00E-03	0.00E+00	7.23E-05	0.00E+00	3.68E-05	3.13E-03	0.00E+00	3.58E-05	8.00E-03
0013	5.82E-05	1.76E-04	0.00E+00	2.12E-04	0.00E+00	8.00E-03	0.00E+00	7.24E-05	0.00E+00	3.68E-05	3.13E-03	0.00E+00	3.58E-05	8.00E-03
0014	5.93E-05	1.79E-04	0.00E+00	2.16E-04	0.00E+00	8.15E-03	0.00E+00	7.37E-05	0.00E+00	3.74E-05	3.19E-03	0.00E+00	3.65E-05	8.15E-03
0015	5.91E-05	1.79E-04	0.00E+00	2.15E-04	0.00E+00	8.12E-03	0.00E+00	7.34E-05	0.00E+00	3.73E-05	3.18E-03	0.00E+00	3.64E-05	8.12E-03
0016	5.90E-05	1.78E-04	0.00E+00	2.15E-04	0.00E+00	8.11E-03	0.00E+00	7.33E-05	0.00E+00	3.73E-05	3.17E-03	0.00E+00	3.63E-05	8.11E-03
0017	5.82E-05	1.76E-04	0.00E+00	2.12E-04	0.00E+00	8.00E-03	0.00E+00	7.23E-05	0.00E+00	3.67E-05	3.13E-03	0.00E+00	3.58E-05	8.00E-03
0018	5.78E-05	1.75E-04	0.00E+00	2.10E-04	0.00E+00	7.95E-03	0.00E+00	7.19E-05	0.00E+00	3.65E-05	3.11E-03	0.00E+00	3.56E-05	7.95E-03
0019	5.78E-05	1.75E-04	0.00E+00	2.10E-04	0.00E+00	7.95E-03	0.00E+00	7.19E-05	0.00E+00	3.65E-05	3.11E-03	0.00E+00	3.56E-05	7.95E-03
0020	5.51E-05	1.66E-04	0.00E+00	2.00E-04	0.00E+00	7.57E-03	0.00E+00	6.84E-05	0.00E+00	3.48E-05	2.96E-03	0.00E+00	3.39E-05	7.57E-03
0021	5.21E-05	1.58E-04	0.00E+00	1.90E-04	0.00E+00	7.17E-03	0.00E+00	6.48E-05	0.00E+00	3.29E-05	2.80E-03	0.00E+00	3.21E-05	7.17E-03
0022	2.98E-05	9.00E-05	0.00E+00	1.08E-04	0.00E+00	4.09E-03	0.00E+00	3.70E-05	0.00E+00	1.88E-05	1.60E-03	0.00E+00	1.83E-05	4.09E-03
0023	3.15E-05	9.53E-05	0.00E+00	1.15E-04	0.00E+00	4.33E-03	0.00E+00	3.91E-05	0.00E+00	1.99E-05	1.69E-03	0.00E+00	1.94E-05	4.33E-03
0024	3.39E-05	1.02E-04	0.00E+00	1.23E-04	0.00E+00	4.65E-03	0.00E+00	4.21E-05	0.00E+00	2.14E-05	1.82E-03	0.00E+00	2.08E-05	4.65E-03
0025	3.65E-05	1.10E-04	0.00E+00	1.33E-04	0.00E+00	5.02E-03	0.00E+00	4.54E-05	0.00E+00	2.31E-05	1.96E-03	0.00E+00	2.25E-05	5.02E-03
0026	4.02E-05	1.22E-04	0.00E+00	1.46E-04	0.00E+00	5.53E-03	0.00E+00	5.00E-05	0.00E+00	2.54E-05	2.16E-03	0.00E+00	2.47E-05	5.53E-03
0027	4.42E-05	1.34E-04	0.00E+00	1.61E-04	0.00E+00	6.07E-03	0.00E+00	5.49E-05	0.00E+00	2.79E-05	2.37E-03	0.00E+00	2.72E-05	6.07E-03
0028	4.90E-05	1.48E-04	0.00E+00	1.78E-04	0.00E+00	6.73E-03	0.00E+00	6.09E-05	0.00E+00	3.09E-05	2.63E-03	0.00E+00	3.01E-05	6.73E-03
0029	5.33E-05	1.61E-04	0.00E+00	1.94E-04	0.00E+00	7.33E-03	0.00E+00	6.63E-05	0.00E+00	3.37E-05	2.87E-03	0.00E+00	3.28E-05	7.33E-03
0030	5.71E-05	1.73E-04	0.00E+00	2.08E-04	0.00E+00	7.84E-03	0.00E+00	7.09E-05	0.00E+00	3.60E-05	3.07E-03	0.00E+00	3.51E-05	7.84E-03
0031	6.08E-05	1.84E-04	0.00E+00	2.21E-04	0.00E+00	8.36E-03	0.00E+00	7.56E-05	0.00E+00	3.84E-05	3.27E-03	0.00E+00	3.74E-05	8.36E-03
0032	6.20E-05	1.87E-04	0.00E+00	2.26E-04	0.00E+00	8.52E-03	0.00E+00	7.70E-05	0.00E+00	3.91E-05	3.33E-03	0.00E+00	3.82E-05	8.52E-03
0033	6.30E-05	1.90E-04	0.00E+00	2.29E-04	0.00E+00	8.65E-03	0.00E+00	7.82E-05	0.00E+00	3.97E-05	3.38E-03	0.00E+00	3.87E-05	8.65E-03
0034	6.31E-05	1.91E-04	0.00E+00	2.30E-04	0.00E+00	8.68E-03	0.00E+00	7.85E-05	0.00E+00	3.99E-05	3.39E-03	0.00E+00	3.89E-05	8.68E-03
0035	6.42E-05	1.94E-04	0.00E+00	2.34E-04	0.00E+00	8.82E-03	0.00E+00	7.98E-05	0.00E+00	4.05E-05	3.45E-03	0.00E+00	3.95E-05	8.82E-03
0036	6.39E-05	1.93E-04	0.00E+00	2.32E-04	0.00E+00	8.78E-03	0.00E+00	7.94E-05	0.00E+00	4.03E-05	3.43E-03	0.00E+00	3.93E-05	8.78E-03
0037	6.30E-05	1.90E-04	0.00E+00	2.29E-04	0.00E+00	8.66E-03	0.00E+00	7.83E-05	0.00E+00	3.98E-05	3.38E-03	0.00E+00	3.88E-05	8.66E-03
0038	6.20E-05	1.87E-04	0.00E+00	2.26E-04	0.00E+00	8.52E-03	0.00E+00	7.70E-05	0.00E+00	3.91E-05	3.33E-03	0.00E+00	3.81E-05	8.52E-03
0039	6.39E-05	1.93E-04	0.00E+00	2.33E-04	0.00E+00	8.78E-03	0.00E+00	7.94E-05	0.00E+00	4.04E-05	3.43E-03	0.00E+00	3.93E-05	8.78E-03
0040	6.17E-05	1.87E-04	0.00E+00	2.25E-04	0.00E+00	8.48E-03	0.00E+00	7.67E-05	0.00E+00	3.90E-05	3.32E-03	0.00E+00	3.80E-05	8.48E-03
0041	5.79E-05	1.75E-04	0.00E+00	2.11E-04	0.00E+00	7.96E-03	0.00E+00	7.19E-05	0.00E+00	3.66E-05	3.11E-03	0.00E+00	3.56E-05	7.96E-03
0042	5.47E-05	1.65E-04	0.00E+00	1.99E-04	0.00E+00	7.52E-03	0.00E+00	6.80E-05	0.00E+00	3.45E-05	2.94E-03	0.00E+00	3.37E-05	7.52E-03
0043	3.07E-05	9.27E-05	0.00E+00	1.12E-04	0.00E+00	4.22E-03	0.00E+00	3.81E-05	0.00E+00	1.94E-05	1.65E-03	0.00E+00	1.89E-05	4.22E-03
0044	3.16E-05	9.57E-05	0.00E+00	1.15E-04	0.00E+00	4.35E-03	0.00E+00	3.93E-05	0.00E+00	2.00E-05	1.70E-03	0.00E+00	1.95E-05	4.35E-03
0045	3.37E-05	1.02E-04	0.00E+00	1.23E-04	0.00E+00	4.64E-03	0.00E+00	4.19E-05	0.00E+00	2.13E-05	1.81E-03	0.00E+00	2.08E-05	4.64E-03
0046	3.67E-05	1.11E-04	0.00E+00	1.34E-04	0.00E+00	5.05E-03	0.00E+00	4.56E-05	0.00E+00	2.32E-05	1.97E-03	0.00E+00	2.26E-05	5.05E-03
0047	4.00E-05	1.21E-04	0.00E+00	1.46E-04	0.00E+00	5.50E-03	0.00E+00	4.97E-05	0.00E+00	2.53E-05	2.15E-03	0.00E+00	2.46E-05	5.50E-03
0048	4.47E-05	1.35E-04	0.00E+00	1.63E-04	0.00E+00	6.15E-03	0.00E+00	5.56E-05	0.00E+00	2.83E-05	2.40E-03	0.00E+00	2.75E-05	6.15E-03
0049	4.97E-05	1.50E-04	0.00E+00	1.81E-04	0.00E+00	6.84E-03	0.00E+00	6.18E-05	0.00E+00	3.14E-05	2.67E-03	0.00E+00	3.06E-05	6.84E-03
0050	5.63E-05	1.70E-04	0.00E+00	2.05E-04	0.00E+00	7.74E-03	0.00E+00	7.00E-05	0.00E+00	3.56E-05	3.03E-03	0.00E+00	3.47E-05	7.74E-03
0051	6.23E-05	1.88E-04	0.00E+00	2.27E-04	0.00E+00	8.56E-03	0.00E+00	7.74E-05	0.00E+00	3.93E-05	3.35E-03	0.00E+00	3.83E-05	8.56E-03
0052	6.64E-05	2.01E-04	0.00E+00	2.42E-04	0.00E+00	9.12E-03	0.00E+00	8.25E-05	0.00E+00	4.19E-05	3.57E-03	0.00E+00	4.08E-05	9.12E-03
0053	6.78E-05	2.05E-04	0.00E+00	2.47E-04	0.00E+00	9.31E-03	0.00E+00	8.42E-05	0.00E+00	4.28E-05	3.64E-03	0.00E+00	4.17E-05	9.31E-03
0054	6.86E-05	2.07E-04	0.00E+00	2.50E-04	0.00E+00	9.43E-03	0.00E+00	8.53E-05	0.00E+00	4.33E-05	3.69E-03	0.00E+00	4.22E-05	9.43E-03
0055	6.88E-05	2.08E-04	0.00E+00	2.50E-04	0.00E+00	9.45E-03	0.00E+00	8.55E-05	0.00E+00	4.34E-05	3.70E-03	0.00E+00	4.23E-05	9.45E-03
0056	6.98E-05	2.11E-04	0.00E+00	2.54E-04	0.00E+00	9.60E-03	0.00E+00	8.68E-05	0.00E+00	4.41E-05	3.75E-03	0.00E+00	4.30E-05	9.60E-03
0057	6.96E-05	2.10E-04	0.00E+00	2.53E-04	0.00E+00	9.56E-03	0.00E+00	8.65E-05	0.00E+00	4.39E-05	3.74E-03	0.00E+00	4.28E-05	9.56E-03
0058	6.92E-05	2.09E-04	0.00E+00	2.52E-04	0.00E+00	9.51E-03	0.00E+00	8.60E-05	0.00E+00	4.37E-05	3.72E-03	0.00E+00	4.26E-05	9.51E-03
0059	7.01E-05	2.12E-04	0.00E+00	2.55E-04	0.00E+00	9.64E-03	0.00E+00	8.72E-05	0.00E+00	4.43E-05	3.77E-03	0.00E+00	4.32E-05	9.64E-03
0060	6.90E-05	2.09E-04	0.00E+00	2.51E-04	0.00E+00	9.48E-03	0.00E+00	8.57E-05	0.00E+00	4.35E-05	3.71E-03	0.00E+00	4.24E-05	9.48E-03
0061	6.47E-05	1.96E-04	0.00E+00	2.35E-04	0.00E+00	8.89E-03	0.00E+00	8.04E-05	0.00E+00	4.08E-05	3.48E-03	0.00E+00	3.98E-05	8.89E-03
0062	6.06E-05	1.83E-04	0.00E+00	2.20E-04	0.00E+00	8.33E-03	0.00E+00	7.53E-05	0.00E+00	3.83E-05	3.26E-03	0.00E+00	3.73E-05	8.33E-03

0063	5.79E-05	1.75E-04	0.00E+00	2.11E-04	0.00E+00	7.96E-03	0.00E+00	7.19E-05	0.00E+00	3.66E-05	3.11E-03	0.00E+00	3.56E-05	7.96E-03
0064	3.24E-05	9.79E-05	0.00E+00	1.18E-04	0.00E+00	4.45E-03	0.00E+00	4.02E-05	0.00E+00	2.04E-05	1.74E-03	0.00E+00	1.99E-05	4.45E-03
0065	3.27E-05	9.88E-05	0.00E+00	1.19E-04	0.00E+00	4.49E-03	0.00E+00	4.06E-05	0.00E+00	2.06E-05	1.76E-03	0.00E+00	2.01E-05	4.49E-03
0066	3.38E-05	1.02E-04	0.00E+00	1.23E-04	0.00E+00	4.65E-03	0.00E+00	4.20E-05	0.00E+00	2.14E-05	1.82E-03	0.00E+00	2.08E-05	4.65E-03
0067	3.64E-05	1.10E-04	0.00E+00	1.33E-04	0.00E+00	5.01E-03	0.00E+00	4.53E-05	0.00E+00	2.30E-05	1.96E-03	0.00E+00	2.24E-05	5.01E-03
0068	4.01E-05	1.21E-04	0.00E+00	1.46E-04	0.00E+00	5.51E-03	0.00E+00	4.99E-05	0.00E+00	2.53E-05	2.16E-03	0.00E+00	2.47E-05	5.51E-03
0069	4.44E-05	1.34E-04	0.00E+00	1.62E-04	0.00E+00	6.11E-03	0.00E+00	5.52E-05	0.00E+00	2.81E-05	2.39E-03	0.00E+00	2.73E-05	6.11E-03
0070	5.09E-05	1.54E-04	0.00E+00	1.85E-04	0.00E+00	6.99E-03	0.00E+00	6.32E-05	0.00E+00	3.21E-05	2.73E-03	0.00E+00	3.13E-05	6.99E-03
0071	5.85E-05	1.77E-04	0.00E+00	2.13E-04	0.00E+00	8.04E-03	0.00E+00	7.27E-05	0.00E+00	3.69E-05	3.14E-03	0.00E+00	3.60E-05	8.04E-03
0072	6.67E-05	2.02E-04	0.00E+00	2.43E-04	0.00E+00	9.17E-03	0.00E+00	8.29E-05	0.00E+00	4.21E-05	3.59E-03	0.00E+00	4.11E-05	9.17E-03
0073	7.31E-05	2.21E-04	0.00E+00	2.66E-04	0.00E+00	1.01E-02	0.00E+00	9.09E-05	0.00E+00	4.62E-05	3.93E-03	0.00E+00	4.50E-05	1.01E-02
0074	7.48E-05	2.26E-04	0.00E+00	2.72E-04	0.00E+00	1.03E-02	0.00E+00	9.29E-05	0.00E+00	4.72E-05	4.02E-03	0.00E+00	4.60E-05	1.03E-02
0075	7.56E-05	2.28E-04	0.00E+00	2.75E-04	0.00E+00	1.04E-02	0.00E+00	9.39E-05	0.00E+00	4.77E-05	4.06E-03	0.00E+00	4.65E-05	1.04E-02
0076	7.56E-05	2.29E-04	0.00E+00	2.75E-04	0.00E+00	1.04E-02	0.00E+00	9.40E-05	0.00E+00	4.77E-05	4.06E-03	0.00E+00	4.65E-05	1.04E-02
0077	7.67E-05	2.32E-04	0.00E+00	2.79E-04	0.00E+00	1.05E-02	0.00E+00	9.53E-05	0.00E+00	4.84E-05	4.12E-03	0.00E+00	4.72E-05	1.05E-02
0078	7.67E-05	2.32E-04	0.00E+00	2.79E-04	0.00E+00	1.05E-02	0.00E+00	9.53E-05	0.00E+00	4.84E-05	4.12E-03	0.00E+00	4.72E-05	1.05E-02
0079	7.59E-05	2.30E-04	0.00E+00	2.76E-04	0.00E+00	1.04E-02	0.00E+00	9.43E-05	0.00E+00	4.79E-05	4.08E-03	0.00E+00	4.67E-05	1.04E-02
0080	7.67E-05	2.32E-04	0.00E+00	2.79E-04	0.00E+00	1.05E-02	0.00E+00	9.54E-05	0.00E+00	4.84E-05	4.12E-03	0.00E+00	4.72E-05	1.05E-02
0081	7.30E-05	2.21E-04	0.00E+00	2.65E-04	0.00E+00	1.00E-02	0.00E+00	9.07E-05	0.00E+00	4.61E-05	3.92E-03	0.00E+00	4.49E-05	1.00E-02
0082	6.74E-05	2.04E-04	0.00E+00	2.45E-04	0.00E+00	9.27E-03	0.00E+00	8.38E-05	0.00E+00	4.26E-05	3.62E-03	0.00E+00	4.15E-05	9.27E-03
0083	6.33E-05	1.91E-04	0.00E+00	2.30E-04	0.00E+00	8.70E-03	0.00E+00	7.87E-05	0.00E+00	4.00E-05	3.40E-03	0.00E+00	3.90E-05	8.70E-03
0084	5.86E-05	1.77E-04	0.00E+00	2.13E-04	0.00E+00	8.05E-03	0.00E+00	7.28E-05	0.00E+00	3.70E-05	3.15E-03	0.00E+00	3.60E-05	8.05E-03
0085	3.47E-05	1.05E-04	0.00E+00	1.26E-04	0.00E+00	4.77E-03	0.00E+00	4.31E-05	0.00E+00	2.19E-05	1.86E-03	0.00E+00	2.14E-05	4.77E-03
0086	3.48E-05	1.05E-04	0.00E+00	1.27E-04	0.00E+00	4.79E-03	0.00E+00	4.33E-05	0.00E+00	2.20E-05	1.87E-03	0.00E+00	2.14E-05	4.79E-03
0087	3.50E-05	1.06E-04	0.00E+00	1.27E-04	0.00E+00	4.81E-03	0.00E+00	4.35E-05	0.00E+00	2.21E-05	1.88E-03	0.00E+00	2.16E-05	4.81E-03
0088	3.64E-05	1.10E-04	0.00E+00	1.32E-04	0.00E+00	5.00E-03	0.00E+00	4.52E-05	0.00E+00	2.30E-05	1.96E-03	0.00E+00	2.24E-05	5.00E-03
0089	3.97E-05	1.20E-04	0.00E+00	1.45E-04	0.00E+00	5.46E-03	0.00E+00	4.94E-05	0.00E+00	2.51E-05	2.14E-03	0.00E+00	2.45E-05	5.46E-03
0090	4.44E-05	1.34E-04	0.00E+00	1.62E-04	0.00E+00	6.10E-03	0.00E+00	5.52E-05	0.00E+00	2.80E-05	2.39E-03	0.00E+00	2.73E-05	6.10E-03
0091	5.07E-05	1.53E-04	0.00E+00	1.85E-04	0.00E+00	6.97E-03	0.00E+00	6.30E-05	0.00E+00	3.20E-05	2.73E-03	0.00E+00	3.12E-05	6.97E-03
0092	5.98E-05	1.81E-04	0.00E+00	2.17E-04	0.00E+00	8.21E-03	0.00E+00	7.43E-05	0.00E+00	3.77E-05	3.21E-03	0.00E+00	3.68E-05	8.21E-03
0093	7.06E-05	2.13E-04	0.00E+00	2.57E-04	0.00E+00	9.70E-03	0.00E+00	8.77E-05	0.00E+00	4.46E-05	3.79E-03	0.00E+00	4.34E-05	9.70E-03
0094	7.97E-05	2.41E-04	0.00E+00	2.90E-04	0.00E+00	1.10E-02	0.00E+00	9.91E-05	0.00E+00	5.03E-05	4.28E-03	0.00E+00	4.91E-05	1.10E-02
0095	8.37E-05	2.53E-04	0.00E+00	3.04E-04	0.00E+00	1.15E-02	0.00E+00	1.04E-04	0.00E+00	5.28E-05	4.50E-03	0.00E+00	5.15E-05	1.15E-02
0096	8.46E-05	2.56E-04	0.00E+00	3.08E-04	0.00E+00	1.16E-02	0.00E+00	1.05E-04	0.00E+00	5.34E-05	4.54E-03	0.00E+00	5.20E-05	1.16E-02
0097	8.51E-05	2.57E-04	0.00E+00	3.10E-04	0.00E+00	1.17E-02	0.00E+00	1.06E-04	0.00E+00	5.37E-05	4.57E-03	0.00E+00	5.24E-05	1.17E-02
0098	8.54E-05	2.58E-04	0.00E+00	3.11E-04	0.00E+00	1.17E-02	0.00E+00	1.06E-04	0.00E+00	5.39E-05	4.59E-03	0.00E+00	5.26E-05	1.17E-02
0099	8.54E-05	2.58E-04	0.00E+00	3.11E-04	0.00E+00	1.17E-02	0.00E+00	1.06E-04	0.00E+00	5.39E-05	4.59E-03	0.00E+00	5.25E-05	1.17E-02
0100	8.78E-05	2.65E-04	0.00E+00	3.19E-04	0.00E+00	1.21E-02	0.00E+00	1.09E-04	0.00E+00	5.54E-05	4.72E-03	0.00E+00	5.40E-05	1.21E-02
0101	8.36E-05	2.53E-04	0.00E+00	3.04E-04	0.00E+00	1.15E-02	0.00E+00	1.04E-04	0.00E+00	5.28E-05	4.49E-03	0.00E+00	5.15E-05	1.15E-02
0102	7.67E-05	2.32E-04	0.00E+00	2.79E-04	0.00E+00	1.05E-02	0.00E+00	9.53E-05	0.00E+00	4.84E-05	4.12E-03	0.00E+00	4.72E-05	1.05E-02
0103	7.02E-05	2.12E-04	0.00E+00	2.56E-04	0.00E+00	9.65E-03	0.00E+00	8.73E-05	0.00E+00	4.43E-05	3.77E-03	0.00E+00	4.32E-05	9.65E-03
0104	6.40E-05	1.94E-04	0.00E+00	2.33E-04	0.00E+00	8.80E-03	0.00E+00	7.96E-05	0.00E+00	4.04E-05	3.44E-03	0.00E+00	3.94E-05	8.80E-03
0105	5.97E-05	1.81E-04	0.00E+00	2.17E-04	0.00E+00	8.20E-03	0.00E+00	7.42E-05	0.00E+00	3.77E-05	3.21E-03	0.00E+00	3.67E-05	8.20E-03
0106	3.73E-05	1.13E-04	0.00E+00	1.36E-04	0.00E+00	5.13E-03	0.00E+00	4.64E-05	0.00E+00	2.36E-05	2.01E-03	0.00E+00	2.30E-05	5.13E-03
0107	3.77E-05	1.14E-04	0.00E+00	1.37E-04	0.00E+00	5.18E-03	0.00E+00	4.68E-05	0.00E+00	2.38E-05	2.02E-03	0.00E+00	2.32E-05	5.18E-03
0108	3.77E-05	1.14E-04	0.00E+00	1.37E-04	0.00E+00	5.19E-03	0.00E+00	4.69E-05	0.00E+00	2.38E-05	2.03E-03	0.00E+00	2.32E-05	5.19E-03
0109	3.79E-05	1.15E-04	0.00E+00	1.38E-04	0.00E+00	5.20E-03	0.00E+00	4.71E-05	0.00E+00	2.39E-05	2.03E-03	0.00E+00	2.33E-05	5.20E-03
0110	3.96E-05	1.20E-04	0.00E+00	1.44E-04	0.00E+00	5.44E-03	0.00E+00	4.92E-05	0.00E+00	2.50E-05	2.13E-03	0.00E+00	2.44E-05	5.44E-03
0111	4.38E-05	1.33E-04	0.00E+00	1.59E-04	0.00E+00	6.02E-03	0.00E+00	5.45E-05	0.00E+00	2.77E-05	2.36E-03	0.00E+00	2.70E-05	6.02E-03
0112	4.99E-05	1.51E-04	0.00E+00	1.82E-04	0.00E+00	6.86E-03	0.00E+00	6.20E-05	0.00E+00	3.15E-05	2.68E-03	0.00E+00	3.07E-05	6.86E-03
0113	5.92E-05	1.79E-04	0.00E+00	2.15E-04	0.00E+00	8.13E-03	0.00E+00	7.35E-05	0.00E+00	3.74E-05	3.18E-03	0.00E+00	3.64E-05	8.13E-03
0114	7.23E-05	2.19E-04	0.00E+00	2.63E-04	0.00E+00	9.94E-03	0.00E+00	8.99E-05	0.00E+00	4.57E-05	3.89E-03	0.00E+00	4.45E-05	9.94E-03
0115	9.01E-05	2.72E-04	0.00E+00	3.28E-04	0.00E+00	1.24E-02	0.00E+00	1.12E-04	0.00E+00	5.69E-05	4.84E-03	0.00E+00	5.54E-05	1.24E-02
0116	9.59E-05	2.90E-04	0.00E+00	3.49E-04	0.00E+00	1.32E-02	0.00E+00	1.19E-04	0.00E+00	6.05E-05	5.15E-03	0.00E+00	5.90E-05	1.32E-02
0117	9.66E-05	2.92E-04	0.00E+00	3.52E-04	0.00E+00	1.33E-02	0.00E+00	1.20E-04	0.00E+00	6.10E-05	5.19E-03	0.00E+00	5.95E-05	1.33E-02
0118	9.78E-05	2.96E-04	0.00E+00	3.56E-04	0.00E+00	1.34E-02	0.00E+00	1.22E-04	0.00E+00	6.17E-05	5.26E-03	0.00E+00	6.02E-05	1.34E-02
0119	9.77E-05	2.95E-04	0.00E+00	3.55E-04	0.00E+00	1.34E-02	0.00E+00	1.21E-04	0.00E+00	6.17E-05	5.25E-03	0.00E+00	6.01E-05	1.34E-02
0120	9.97E-05	3.01E-04	0.00E+00	3.63E-04	0.00E+00	1.37E-02	0.00E+00	1.24E-04	0.00E+00	6.29E-05	5.36E-03	0.00E+00	6.14E-05	1.37E-02
0121	9.93E-05	3.00E-04	0.00E+00	3.61E-04	0.00E+00	1.36E-02	0.00E+00	1.23E-04	0.00E+00	6.27E-05	5.33E-03	0.00E+00	6.11E-05	1.36E-02
0122	8.93E-05	2.70E-04	0.00E+00	3.25E-04	0.00E+00	1.23E-02	0.00E+00	1.11E-04	0.00E+00	5.64E-05	4.80E-03	0.00E+00	5.50E-05	1.23E-02
0123	7.94E-05	2.40E-04	0.00E+00	2.89E-04	0.00E+00	1.09E-02	0.00E+00	9.87E-05	0.00E+00	5.01E-05	4.27E-03	0.00E+00	4.89E-05	1.09E-02
0124	7.05E-05	2.13E-04	0.00E+00	2.56E-04	0.00E+00	9.69E-03	0.00E+00	8.76E-05	0.00E+00	4.45E-05	3.79E-03	0.00E+00	4.34E-05	9.69E-03
0125	6.55E-05	1.98E-04	0.00E+00	2.38E-04	0.00E+00	9.00E-03	0.00E+00	8.14E-05	0.00E+00	4.14E-05	3.52E-03	0.00E+00	4.03E-05	9.00E-03
0126	5.94E-05	1.80E-04	0.00E+00	2.16E-04	0.00E+00	8.17E-03	0.00E+00	7.38E-05	0.00E+00	3.75E-05	3.19E-03	0.00E+00	3.66E-05	8.17E-03
0127	4.13E-05	1.25E-04	0.00E+00	1.50E-04	0.00E+00	5.67E-03	0.00E+00	5.13E-05	0.00E+00	2.61E-05	2.22E-03	0.00E+00	2.54E-05	5.67E-03
0128	4.12E-05	1.25E-04	0.00E+00	1.50E-04	0.00E+00	5.67E-03	0.00E+00	5.12E-05	0.00E+00	2.60E-05	2.22E-03	0.00E+00	2.54E-05	5.67E-03
0129	4.14E-05	1.25E-04	0.00E+00	1.51E-04	0.00E+00	5.69E-03	0.00E+00	5.15E-05	0.00E+00	2.62E-05	2.23E-03	0.00E+00	2.55E-05	5.69E-03
0130	4.12E-05	1.25E-04	0.00E+00	1.50E-04	0.00E+00	5.66E-03	0.00E+00	5.12E-05	0.00E+00	2.60E-05	2.21E-03	0.00E+00	2.54E-05	5.66E-03
0131	4.14E-05	1.25E-04	0.00E+00	1.50E-04	0.00E+00	5.68E-03	0.00E+00	5.14E-05	0.00E+00	2.61E-05	2.22E-03	0.00E+00	2.54E-05	5.68E-03
0132	4.36E-05	1.32E-04	0.00E+00	1.59E-04	0.00E+00	5.99E-03	0.00E+00	5.41E-05	0.00E+00	2.75E-05	2.34E-03	0.00E+00	2.68E-05	5.99E-03
0133	4.93E-05	1.49E-04	0.00E+00	1.79E-04	0.00E+00	6.78E-03	0.00E+00	6.13E-05	0.00E+00	3.11E-05	2.65E-03	0.00E+00	3.03E-05	6.78E-03
0134	5.77E-05	1.75E-04	0.00E+00	2.10E-04	0.00E+00	7.93E-03	0.00E+00	7.17E-05	0.00E+00	3.64E-05	3.10E-03	0.00E+00	3.55E-05	7.93E-03
0135	7.21E-05	2.18E-04	0.00E+00	2.62E-04	0.00E+00	9.91E-03	0.00E+00	8.96E-05	0.00E+00	4.55E-05	3.87E-03	0.00E+00	4.44E-05	9.91E-03
0136	9.75E-05	2.95E-04	0.00E+00	3.55E-04	0.00E+00	1.34E-02	0.00E+00	1.21E-04	0.00E+00	6.15E-05	5.24E-03	0.00E+00	6.00E-05	1.34E-02
0137	1.15E-04	3.49E-04	0.00E+00	4.20E-04	0.00E+00	1.58E-02	0.00E+00	1.43E-04	0.00E+00	7.28E-05	6.20E-03	0.00E+00	7.10E-05	1.58E-02

0138	1.16E-04	3.50E-04	0.00E+00	4.21E-04	0.00E+00	1.59E-02	0.00E+00	1.44E-04	0.00E+00	7.31E-05	6.22E-03	0.00E+00	7.12E-05	1.59E-02
0139	1.17E-04	3.55E-04	0.00E+00	4.27E-04	0.00E+00	1.61E-02	0.00E+00	1.46E-04	0.00E+00	7.41E-05	6.31E-03	0.00E+00	7.23E-05	1.61E-02
0140	1.18E-04	3.56E-04	0.00E+00	4.28E-04	0.00E+00	1.62E-02	0.00E+00	1.46E-04	0.00E+00	7.43E-05	6.32E-03	0.00E+00	7.24E-05	1.62E-02
0141	1.23E-04	3.71E-04	0.00E+00	4.46E-04	0.00E+00	1.69E-02	0.00E+00	1.52E-04	0.00E+00	7.74E-05	6.59E-03	0.00E+00	7.55E-05	1.69E-02
0142	1.09E-04	3.29E-04	0.00E+00	3.96E-04	0.00E+00	1.50E-02	0.00E+00	1.35E-04	0.00E+00	6.87E-05	5.85E-03	0.00E+00	6.70E-05	1.50E-02
0143	9.20E-05	2.78E-04	0.00E+00	3.35E-04	0.00E+00	1.26E-02	0.00E+00	1.14E-04	0.00E+00	5.81E-05	4.94E-03	0.00E+00	5.66E-05	1.26E-02
0144	7.99E-05	2.42E-04	0.00E+00	2.91E-04	0.00E+00	1.10E-02	0.00E+00	9.93E-05	0.00E+00	5.04E-05	4.29E-03	0.00E+00	4.92E-05	1.10E-02
0145	7.21E-05	2.18E-04	0.00E+00	2.62E-04	0.00E+00	9.91E-03	0.00E+00	8.96E-05	0.00E+00	4.55E-05	3.87E-03	0.00E+00	4.44E-05	9.91E-03
0146	6.57E-05	1.99E-04	0.00E+00	2.39E-04	0.00E+00	9.03E-03	0.00E+00	8.16E-05	0.00E+00	4.15E-05	3.53E-03	0.00E+00	4.04E-05	9.03E-03
0147	6.01E-05	1.82E-04	0.00E+00	2.19E-04	0.00E+00	8.26E-03	0.00E+00	7.47E-05	0.00E+00	3.80E-05	3.23E-03	0.00E+00	3.70E-05	8.26E-03
0148	4.53E-05	1.37E-04	0.00E+00	1.65E-04	0.00E+00	6.22E-03	0.00E+00	5.63E-05	0.00E+00	2.86E-05	2.43E-03	0.00E+00	2.79E-05	6.22E-03
0149	4.63E-05	1.40E-04	0.00E+00	1.69E-04	0.00E+00	6.37E-03	0.00E+00	5.76E-05	0.00E+00	2.92E-05	2.49E-03	0.00E+00	2.85E-05	6.37E-03
0150	4.63E-05	1.40E-04	0.00E+00	1.69E-04	0.00E+00	6.37E-03	0.00E+00	5.76E-05	0.00E+00	2.92E-05	2.49E-03	0.00E+00	2.85E-05	6.37E-03
0151	4.61E-05	1.39E-04	0.00E+00	1.68E-04	0.00E+00	6.34E-03	0.00E+00	5.73E-05	0.00E+00	2.91E-05	2.48E-03	0.00E+00	2.84E-05	6.34E-03
0152	4.58E-05	1.39E-04	0.00E+00	1.67E-04	0.00E+00	6.30E-03	0.00E+00	5.69E-05	0.00E+00	2.89E-05	2.46E-03	0.00E+00	2.82E-05	6.30E-03
0153	4.58E-05	1.39E-04	0.00E+00	1.67E-04	0.00E+00	6.30E-03	0.00E+00	5.69E-05	0.00E+00	2.89E-05	2.46E-03	0.00E+00	2.82E-05	6.30E-03
0154	4.88E-05	1.48E-04	0.00E+00	1.78E-04	0.00E+00	6.70E-03	0.00E+00	6.06E-05	0.00E+00	3.08E-05	2.62E-03	0.00E+00	3.00E-05	6.70E-03
0155	5.70E-05	1.72E-04	0.00E+00	2.07E-04	0.00E+00	7.83E-03	0.00E+00	7.08E-05	0.00E+00	3.60E-05	3.06E-03	0.00E+00	3.51E-05	7.83E-03
0156	7.05E-05	2.13E-04	0.00E+00	2.56E-04	0.00E+00	9.69E-03	0.00E+00	8.76E-05	0.00E+00	4.45E-05	3.79E-03	0.00E+00	4.34E-05	9.69E-03
0157	9.66E-05	2.92E-04	0.00E+00	3.52E-04	0.00E+00	1.33E-02	0.00E+00	1.20E-04	0.00E+00	6.10E-05	5.19E-03	0.00E+00	5.95E-05	1.33E-02
0158	1.47E-04	4.46E-04	0.00E+00	5.36E-04	0.00E+00	2.03E-02	0.00E+00	1.83E-04	0.00E+00	9.31E-05	7.92E-03	0.00E+00	9.07E-05	2.03E-02
0159	1.56E-04	4.72E-04	0.00E+00	5.68E-04	0.00E+00	2.15E-02	0.00E+00	1.94E-04	0.00E+00	9.86E-05	8.39E-03	0.00E+00	9.61E-05	2.15E-02
0160	1.60E-04	4.84E-04	0.00E+00	5.82E-04	0.00E+00	2.20E-02	0.00E+00	1.99E-04	0.00E+00	1.01E-04	8.60E-03	0.00E+00	9.85E-05	2.20E-02
0161	1.70E-04	5.13E-04	0.00E+00	6.18E-04	0.00E+00	2.33E-02	0.00E+00	2.11E-04	0.00E+00	1.07E-04	9.12E-03	0.00E+00	1.04E-04	2.33E-02
0162	1.47E-04	4.45E-04	0.00E+00	5.35E-04	0.00E+00	2.02E-02	0.00E+00	1.83E-04	0.00E+00	9.29E-05	7.91E-03	0.00E+00	9.05E-05	2.02E-02
0163	1.10E-04	3.34E-04	0.00E+00	4.02E-04	0.00E+00	1.52E-02	0.00E+00	1.37E-04	0.00E+00	6.97E-05	5.93E-03	0.00E+00	6.79E-05	1.52E-02
0164	9.25E-05	2.80E-04	0.00E+00	3.36E-04	0.00E+00	1.27E-02	0.00E+00	1.15E-04	0.00E+00	5.84E-05	4.97E-03	0.00E+00	5.69E-05	1.27E-02
0165	8.04E-05	2.43E-04	0.00E+00	2.92E-04	0.00E+00	1.10E-02	0.00E+00	9.99E-05	0.00E+00	5.07E-05	4.32E-03	0.00E+00	4.95E-05	1.10E-02
0166	7.25E-05	2.19E-04	0.00E+00	2.64E-04	0.00E+00	9.96E-03	0.00E+00	9.01E-05	0.00E+00	4.58E-05	3.90E-03	0.00E+00	4.46E-05	9.96E-03
0167	6.54E-05	1.98E-04	0.00E+00	2.38E-04	0.00E+00	8.99E-03	0.00E+00	8.13E-05	0.00E+00	4.13E-05	3.51E-03	0.00E+00	4.03E-05	8.99E-03
0168	5.97E-05	1.80E-04	0.00E+00	2.17E-04	0.00E+00	8.20E-03	0.00E+00	7.41E-05	0.00E+00	3.77E-05	3.21E-03	0.00E+00	3.67E-05	8.20E-03
0169	5.03E-05	1.52E-04	0.00E+00	1.83E-04	0.00E+00	6.92E-03	0.00E+00	6.26E-05	0.00E+00	3.18E-05	2.70E-03	0.00E+00	3.10E-05	6.92E-03
0170	5.25E-05	1.59E-04	0.00E+00	1.91E-04	0.00E+00	7.21E-03	0.00E+00	6.52E-05	0.00E+00	3.31E-05	2.82E-03	0.00E+00	3.23E-05	7.21E-03
0171	5.29E-05	1.60E-04	0.00E+00	1.92E-04	0.00E+00	7.27E-03	0.00E+00	6.57E-05	0.00E+00	3.34E-05	2.84E-03	0.00E+00	3.25E-05	7.27E-03
0172	5.31E-05	1.60E-04	0.00E+00	1.93E-04	0.00E+00	7.29E-03	0.00E+00	6.59E-05	0.00E+00	3.35E-05	2.85E-03	0.00E+00	3.27E-05	7.29E-03
0173	5.25E-05	1.59E-04	0.00E+00	1.91E-04	0.00E+00	7.22E-03	0.00E+00	6.52E-05	0.00E+00	3.31E-05	2.82E-03	0.00E+00	3.23E-05	7.22E-03
0174	5.20E-05	1.57E-04	0.00E+00	1.89E-04	0.00E+00	7.14E-03	0.00E+00	6.46E-05	0.00E+00	3.28E-05	2.79E-03	0.00E+00	3.20E-05	7.14E-03
0175	5.19E-05	1.57E-04	0.00E+00	1.89E-04	0.00E+00	7.13E-03	0.00E+00	6.45E-05	0.00E+00	3.28E-05	2.79E-03	0.00E+00	3.19E-05	7.13E-03
0176	5.61E-05	1.70E-04	0.00E+00	2.04E-04	0.00E+00	7.72E-03	0.00E+00	6.98E-05	0.00E+00	3.54E-05	3.02E-03	0.00E+00	3.45E-05	7.72E-03
0177	6.88E-05	2.08E-04	0.00E+00	2.50E-04	0.00E+00	9.45E-03	0.00E+00	8.55E-05	0.00E+00	4.34E-05	3.70E-03	0.00E+00	4.23E-05	9.45E-03
0178	9.44E-05	2.86E-04	0.00E+00	3.44E-04	0.00E+00	1.30E-02	0.00E+00	1.17E-04	0.00E+00	5.96E-05	5.07E-03	0.00E+00	5.81E-05	1.30E-02
0179	1.47E-04	4.46E-04	0.00E+00	5.36E-04	0.00E+00	2.03E-02	0.00E+00	1.83E-04	0.00E+00	9.31E-05	7.92E-03	0.00E+00	9.07E-05	2.03E-02
0180	1.11E-04	3.35E-04	0.00E+00	4.03E-04	0.00E+00	1.52E-02	0.00E+00	1.37E-04	0.00E+00	6.98E-05	5.94E-03	0.00E+00	6.81E-05	1.52E-02
0181	9.29E-05	2.81E-04	0.00E+00	3.38E-04	0.00E+00	1.28E-02	0.00E+00	1.15E-04	0.00E+00	5.87E-05	4.99E-03	0.00E+00	5.72E-05	1.28E-02
0182	8.04E-05	2.43E-04	0.00E+00	2.93E-04	0.00E+00	1.10E-02	0.00E+00	9.99E-05	0.00E+00	5.08E-05	4.32E-03	0.00E+00	4.95E-05	1.10E-02
0183	7.17E-05	2.17E-04	0.00E+00	2.61E-04	0.00E+00	9.85E-03	0.00E+00	8.91E-05	0.00E+00	4.53E-05	3.85E-03	0.00E+00	4.41E-05	9.85E-03
0184	6.56E-05	1.98E-04	0.00E+00	2.39E-04	0.00E+00	9.01E-03	0.00E+00	8.15E-05	0.00E+00	4.14E-05	3.52E-03	0.00E+00	4.03E-05	9.01E-03
0185	6.06E-05	1.83E-04	0.00E+00	2.20E-04	0.00E+00	8.32E-03	0.00E+00	7.53E-05	0.00E+00	3.82E-05	3.25E-03	0.00E+00	3.73E-05	8.32E-03
0186	5.45E-05	1.65E-04	0.00E+00	1.98E-04	0.00E+00	7.49E-03	0.00E+00	6.77E-05	0.00E+00	3.44E-05	2.93E-03	0.00E+00	3.36E-05	7.49E-03
0187	5.85E-05	1.77E-04	0.00E+00	2.13E-04	0.00E+00	8.04E-03	0.00E+00	7.27E-05	0.00E+00	3.69E-05	3.14E-03	0.00E+00	3.60E-05	8.04E-03
0188	6.12E-05	1.85E-04	0.00E+00	2.23E-04	0.00E+00	8.41E-03	0.00E+00	7.61E-05	0.00E+00	3.86E-05	3.29E-03	0.00E+00	3.77E-05	8.41E-03
0189	6.30E-05	1.91E-04	0.00E+00	2.29E-04	0.00E+00	8.66E-03	0.00E+00	7.83E-05	0.00E+00	3.98E-05	3.39E-03	0.00E+00	3.88E-05	8.66E-03
0190	6.32E-05	1.91E-04	0.00E+00	2.30E-04	0.00E+00	8.69E-03	0.00E+00	7.85E-05	0.00E+00	3.99E-05	3.40E-03	0.00E+00	3.89E-05	8.69E-03
0191	6.15E-05	1.86E-04	0.00E+00	2.24E-04	0.00E+00	8.46E-03	0.00E+00	7.65E-05	0.00E+00	3.89E-05	3.31E-03	0.00E+00	3.79E-05	8.46E-03
0192	6.09E-05	1.84E-04	0.00E+00	2.21E-04	0.00E+00	8.37E-03	0.00E+00	7.56E-05	0.00E+00	3.84E-05	3.27E-03	0.00E+00	3.75E-05	8.37E-03
0193	6.05E-05	1.83E-04	0.00E+00	2.20E-04	0.00E+00	8.31E-03	0.00E+00	7.51E-05	0.00E+00	3.82E-05	3.25E-03	0.00E+00	3.72E-05	8.31E-03
0194	6.75E-05	2.04E-04	0.00E+00	2.46E-04	0.00E+00	9.27E-03	0.00E+00	8.39E-05	0.00E+00	4.26E-05	3.63E-03	0.00E+00	4.15E-05	9.27E-03
0195	9.15E-05	2.77E-04	0.00E+00	3.33E-04	0.00E+00	1.26E-02	0.00E+00	1.14E-04	0.00E+00	5.77E-05	4.91E-03	0.00E+00	5.63E-05	1.26E-02
0196	1.45E-04	4.39E-04	0.00E+00	5.28E-04	0.00E+00	2.00E-02	0.00E+00	1.80E-04	0.00E+00	9.17E-05	7.80E-03	0.00E+00	8.93E-05	2.00E-02
0197	1.10E-04	3.33E-04	0.00E+00	4.00E-04	0.00E+00	1.51E-02	0.00E+00	1.37E-04	0.00E+00	6.94E-05	5.91E-03	0.00E+00	6.77E-05	1.51E-02
0198	9.17E-05	2.77E-04	0.00E+00	3.34E-04	0.00E+00	1.26E-02	0.00E+00	1.14E-04	0.00E+00	5.79E-05	4.93E-03	0.00E+00	5.65E-05	1.26E-02
0199	8.07E-05	2.44E-04	0.00E+00	2.94E-04	0.00E+00	1.11E-02	0.00E+00	1.00E-04	0.00E+00	5.10E-05	4.34E-03	0.00E+00	4.97E-05	1.11E-02
0200	7.21E-05	2.18E-04	0.00E+00	2.62E-04	0.00E+00	9.91E-03	0.00E+00	8.96E-05	0.00E+00	4.55E-05	3.88E-03	0.00E+00	4.44E-05	9.91E-03
0201	6.51E-05	1.97E-04	0.00E+00	2.37E-04	0.00E+00	8.95E-03	0.00E+00	8.09E-05	0.00E+00	4.11E-05	3.50E-03	0.00E+00	4.01E-05	8.95E-03
0202	5.83E-05	1.76E-04	0.00E+00	2.12E-04	0.00E+00	8.01E-03	0.00E+00	7.24E-05	0.00E+00	3.68E-05	3.13E-03	0.00E+00	3.59E-05	8.01E-03
0203	5.82E-05	1.76E-04	0.00E+00	2.12E-04	0.00E+00	7.99E-03	0.00E+00	7.23E-05	0.00E+00	3.67E-05	3.12E-03	0.00E+00	3.58E-05	7.99E-03
0204	6.36E-05	1.92E-04	0.00E+00	2.31E-04	0.00E+00	8.74E-03	0.00E+00	7.90E-05	0.00E+00	4.02E-05	3.42E-03	0.00E+00	3.91E-05	8.74E-03
0205	6.89E-05	2.08E-04	0.00E+00	2.51E-04	0.00E+00	9.47E-03	0.00E+00	8.56E-05	0.00E+00	4.35E-05	3.70E-03	0.00E+00	4.24E-05	9.47E-03
0206	7.51E-05	2.27E-04	0.00E+00	2.73E-04	0.00E+00	1.03E-02	0.00E+00	9.34E-05	0.00E+00	4.74E-05	4.04E-03	0.00E+00	4.62E-05	1.03E-02
0207	7.98E-05	2.41E-04	0.00E+00	2.90E-04	0.00E+00	1.10E-02	0.00E+00	9.91E-05	0.00E+00	5.04E-05	4.29E-03	0.00E+00	4.91E-05	1.10E-02
0208	7.91E-05	2.39E-04	0.00E+00	2.88E-04	0.00E+00	1.09E-02	0.00E+00	9.83E-05	0.00E+00	4.99E-05	4.25E-03	0.00E+00	4.87E-05	1.09E-02
0209	7.77E-05	2.35E-04	0.00E+00	2.83E-04	0.00E+00	1.07E-02	0.00E+00	9.65E-05	0.00E+00	4.90E-05	4.17E-03	0.00E+00	4.78E-05	1.07E-02
0210	7.55E-05	2.28E-04	0.00E+00	2.75E-04	0.00E+00	1.04E-02	0.00E+00	9.38E-05	0.00E+00	4.76E-05	4.05E-03	0.00E+00	4.64E-05	1.04E-02
0211	7.45E-05	2.25E-04	0.00E+00	2.71E-04	0.00E+00	1.02E-02	0.00E+00	9.26E-05	0.00E+00	4.71E-05	4.01E-03	0.00E+00	4.59E-05	1.02E-02
0212	8.88E-05	2.68E-04	0.00E+00	3.23E-04	0.00E+00	1.22E-02	0.00E+00	1.10E-04	0.00E+00	5.60E-05	4.77E-03	0.00E+00	5.46E-05	1.22E-02

0213	1.43E-04	4.32E-04	0.00E+00	5.20E-04	0.00E+00	1.96E-02	0.00E+00	1.78E-04	0.00E+00	9.03E-05	7.68E-03	0.00E+00	8.80E-05	1.96E-02
0214	1.09E-04	3.30E-04	0.00E+00	3.97E-04	0.00E+00	1.50E-02	0.00E+00	1.35E-04	0.00E+00	6.88E-05	5.86E-03	0.00E+00	6.71E-05	1.50E-02
0215	9.18E-05	2.78E-04	0.00E+00	3.34E-04	0.00E+00	1.26E-02	0.00E+00	1.14E-04	0.00E+00	5.80E-05	4.93E-03	0.00E+00	5.65E-05	1.26E-02
0216	7.92E-05	2.39E-04	0.00E+00	2.88E-04	0.00E+00	1.09E-02	0.00E+00	9.84E-05	0.00E+00	5.00E-05	4.26E-03	0.00E+00	4.87E-05	1.09E-02
0217	6.86E-05	2.08E-04	0.00E+00	2.50E-04	0.00E+00	9.43E-03	0.00E+00	8.53E-05	0.00E+00	4.33E-05	3.69E-03	0.00E+00	4.22E-05	9.43E-03
0218	6.11E-05	1.85E-04	0.00E+00	2.22E-04	0.00E+00	8.40E-03	0.00E+00	7.59E-05	0.00E+00	3.86E-05	3.28E-03	0.00E+00	3.76E-05	8.40E-03
0219	5.71E-05	1.73E-04	0.00E+00	2.08E-04	0.00E+00	7.85E-03	0.00E+00	7.10E-05	0.00E+00	3.61E-05	3.07E-03	0.00E+00	3.51E-05	7.85E-03
0220	6.10E-05	1.84E-04	0.00E+00	2.22E-04	0.00E+00	8.38E-03	0.00E+00	7.58E-05	0.00E+00	3.85E-05	3.28E-03	0.00E+00	3.75E-05	8.38E-03
0221	6.66E-05	2.01E-04	0.00E+00	2.42E-04	0.00E+00	9.16E-03	0.00E+00	8.28E-05	0.00E+00	4.21E-05	3.58E-03	0.00E+00	4.10E-05	9.16E-03
0222	7.33E-05	2.22E-04	0.00E+00	2.67E-04	0.00E+00	1.01E-02	0.00E+00	9.11E-05	0.00E+00	4.63E-05	3.94E-03	0.00E+00	4.51E-05	1.01E-02
0223	8.21E-05	2.48E-04	0.00E+00	2.99E-04	0.00E+00	1.13E-02	0.00E+00	1.02E-04	0.00E+00	5.18E-05	4.41E-03	0.00E+00	5.05E-05	1.13E-02
0224	9.51E-05	2.87E-04	0.00E+00	3.46E-04	0.00E+00	1.31E-02	0.00E+00	1.18E-04	0.00E+00	6.00E-05	5.11E-03	0.00E+00	5.85E-05	1.31E-02
0225	1.12E-04	3.39E-04	0.00E+00	4.08E-04	0.00E+00	1.54E-02	0.00E+00	1.39E-04	0.00E+00	7.07E-05	6.02E-03	0.00E+00	6.89E-05	1.54E-02
0226	1.16E-04	3.52E-04	0.00E+00	4.23E-04	0.00E+00	1.60E-02	0.00E+00	1.45E-04	0.00E+00	7.34E-05	6.25E-03	0.00E+00	7.16E-05	1.60E-02
0227	1.13E-04	3.41E-04	0.00E+00	4.10E-04	0.00E+00	1.55E-02	0.00E+00	1.40E-04	0.00E+00	7.12E-05	6.06E-03	0.00E+00	6.94E-05	1.55E-02
0228	1.09E-04	3.30E-04	0.00E+00	3.97E-04	0.00E+00	1.50E-02	0.00E+00	1.36E-04	0.00E+00	6.90E-05	5.87E-03	0.00E+00	6.72E-05	1.50E-02
0229	1.06E-04	3.21E-04	0.00E+00	3.86E-04	0.00E+00	1.46E-02	0.00E+00	1.32E-04	0.00E+00	6.70E-05	5.71E-03	0.00E+00	6.53E-05	1.46E-02
0230	1.42E-04	4.28E-04	0.00E+00	5.15E-04	0.00E+00	1.95E-02	0.00E+00	1.76E-04	0.00E+00	8.94E-05	7.61E-03	0.00E+00	8.72E-05	1.95E-02
0231	1.06E-04	3.21E-04	0.00E+00	3.87E-04	0.00E+00	1.46E-02	0.00E+00	1.32E-04	0.00E+00	6.71E-05	5.71E-03	0.00E+00	6.54E-05	1.46E-02
0232	8.69E-05	2.63E-04	0.00E+00	3.16E-04	0.00E+00	1.19E-02	0.00E+00	1.08E-04	0.00E+00	5.49E-05	4.67E-03	0.00E+00	5.35E-05	1.19E-02
0233	7.67E-05	2.32E-04	0.00E+00	2.79E-04	0.00E+00	1.05E-02	0.00E+00	9.53E-05	0.00E+00	4.84E-05	4.12E-03	0.00E+00	4.72E-05	1.05E-02
0234	6.90E-05	2.09E-04	0.00E+00	2.51E-04	0.00E+00	9.49E-03	0.00E+00	8.58E-05	0.00E+00	4.36E-05	3.71E-03	0.00E+00	4.25E-05	9.49E-03
0235	6.29E-05	1.90E-04	0.00E+00	2.29E-04	0.00E+00	8.65E-03	0.00E+00	7.82E-05	0.00E+00	3.97E-05	3.38E-03	0.00E+00	3.87E-05	8.65E-03
0236	5.85E-05	1.77E-04	0.00E+00	2.13E-04	0.00E+00	8.03E-03	0.00E+00	7.27E-05	0.00E+00	3.69E-05	3.14E-03	0.00E+00	3.60E-05	8.03E-03
0237	6.16E-05	1.86E-04	0.00E+00	2.24E-04	0.00E+00	8.47E-03	0.00E+00	7.66E-05	0.00E+00	3.89E-05	3.31E-03	0.00E+00	3.79E-05	8.47E-03
0238	6.72E-05	2.03E-04	0.00E+00	2.45E-04	0.00E+00	9.24E-03	0.00E+00	8.36E-05	0.00E+00	4.25E-05	3.61E-03	0.00E+00	4.14E-05	9.24E-03
0239	7.44E-05	2.25E-04	0.00E+00	2.71E-04	0.00E+00	1.02E-02	0.00E+00	9.24E-05	0.00E+00	4.70E-05	4.00E-03	0.00E+00	4.58E-05	1.02E-02
0240	8.35E-05	2.53E-04	0.00E+00	3.04E-04	0.00E+00	1.15E-02	0.00E+00	1.04E-04	0.00E+00	5.27E-05	4.49E-03	0.00E+00	5.14E-05	1.15E-02
0241	9.63E-05	2.91E-04	0.00E+00	3.50E-04	0.00E+00	1.32E-02	0.00E+00	1.20E-04	0.00E+00	6.08E-05	5.18E-03	0.00E+00	5.93E-05	1.32E-02
0242	1.17E-04	3.55E-04	0.00E+00	4.27E-04	0.00E+00	1.61E-02	0.00E+00	1.46E-04	0.00E+00	7.42E-05	6.31E-03	0.00E+00	7.23E-05	1.61E-02
0243	1.38E-04	4.19E-04	0.00E+00	5.04E-04	0.00E+00	1.90E-02	0.00E+00	1.72E-04	0.00E+00	8.74E-05	7.44E-03	0.00E+00	8.52E-05	1.90E-02
0244	1.07E-04	3.23E-04	0.00E+00	3.88E-04	0.00E+00	1.47E-02	0.00E+00	1.33E-04	0.00E+00	6.74E-05	5.73E-03	0.00E+00	6.57E-05	1.47E-02
0245	9.03E-05	2.73E-04	0.00E+00	3.28E-04	0.00E+00	1.24E-02	0.00E+00	1.12E-04	0.00E+00	5.70E-05	4.85E-03	0.00E+00	5.56E-05	1.24E-02
0246	7.95E-05	2.40E-04	0.00E+00	2.89E-04	0.00E+00	1.09E-02	0.00E+00	9.88E-05	0.00E+00	5.02E-05	4.27E-03	0.00E+00	4.89E-05	1.09E-02
0247	7.15E-05	2.16E-04	0.00E+00	2.60E-04	0.00E+00	9.83E-03	0.00E+00	8.89E-05	0.00E+00	4.51E-05	3.84E-03	0.00E+00	4.40E-05	9.83E-03
0248	6.52E-05	1.97E-04	0.00E+00	2.37E-04	0.00E+00	8.96E-03	0.00E+00	8.10E-05	0.00E+00	4.12E-05	3.50E-03	0.00E+00	4.01E-05	8.96E-03
0249	6.01E-05	1.82E-04	0.00E+00	2.19E-04	0.00E+00	8.26E-03	0.00E+00	7.47E-05	0.00E+00	3.79E-05	3.23E-03	0.00E+00	3.70E-05	8.26E-03
0250	6.23E-05	1.88E-04	0.00E+00	2.27E-04	0.00E+00	8.56E-03	0.00E+00	7.74E-05	0.00E+00	3.93E-05	3.35E-03	0.00E+00	3.83E-05	8.56E-03
0251	6.80E-05	2.06E-04	0.00E+00	2.47E-04	0.00E+00	9.34E-03	0.00E+00	8.45E-05	0.00E+00	4.29E-05	3.65E-03	0.00E+00	4.18E-05	9.34E-03
0252	7.50E-05	2.27E-04	0.00E+00	2.73E-04	0.00E+00	1.03E-02	0.00E+00	9.33E-05	0.00E+00	4.74E-05	4.03E-03	0.00E+00	4.62E-05	1.03E-02
0253	8.40E-05	2.54E-04	0.00E+00	3.06E-04	0.00E+00	1.15E-02	0.00E+00	1.04E-04	0.00E+00	5.30E-05	4.51E-03	0.00E+00	5.17E-05	1.15E-02
0254	9.67E-05	2.92E-04	0.00E+00	3.52E-04	0.00E+00	1.33E-02	0.00E+00	1.20E-04	0.00E+00	6.11E-05	5.20E-03	0.00E+00	5.95E-05	1.33E-02
0255	1.18E-04	3.56E-04	0.00E+00	4.29E-04	0.00E+00	1.62E-02	0.00E+00	1.46E-04	0.00E+00	7.44E-05	6.33E-03	0.00E+00	7.25E-05	1.62E-02
0256	1.38E-04	4.18E-04	0.00E+00	5.04E-04	0.00E+00	1.90E-02	0.00E+00	1.72E-04	0.00E+00	8.74E-05	7.44E-03	0.00E+00	8.52E-05	1.90E-02
0257	1.07E-04	3.23E-04	0.00E+00	3.88E-04	0.00E+00	1.47E-02	0.00E+00	1.33E-04	0.00E+00	6.74E-05	5.73E-03	0.00E+00	6.57E-05	1.47E-02
0258	8.99E-05	2.72E-04	0.00E+00	3.27E-04	0.00E+00	1.24E-02	0.00E+00	1.12E-04	0.00E+00	5.67E-05	4.83E-03	0.00E+00	5.53E-05	1.24E-02
0259	7.85E-05	2.37E-04	0.00E+00	2.86E-04	0.00E+00	1.08E-02	0.00E+00	9.76E-05	0.00E+00	4.96E-05	4.22E-03	0.00E+00	4.83E-05	1.08E-02
0260	6.99E-05	2.11E-04	0.00E+00	2.54E-04	0.00E+00	9.61E-03	0.00E+00	8.69E-05	0.00E+00	4.41E-05	3.76E-03	0.00E+00	4.30E-05	9.61E-03
0261	6.29E-05	1.90E-04	0.00E+00	2.29E-04	0.00E+00	8.65E-03	0.00E+00	7.82E-05	0.00E+00	3.97E-05	3.38E-03	0.00E+00	3.87E-05	8.65E-03
0262	5.70E-05	1.72E-04	0.00E+00	2.07E-04	0.00E+00	7.84E-03	0.00E+00	7.09E-05	0.00E+00	3.60E-05	3.06E-03	0.00E+00	3.51E-05	7.84E-03
0263	6.30E-05	1.91E-04	0.00E+00	2.29E-04	0.00E+00	8.66E-03	0.00E+00	7.83E-05	0.00E+00	3.98E-05	3.39E-03	0.00E+00	3.88E-05	8.66E-03
0264	6.88E-05	2.08E-04	0.00E+00	2.50E-04	0.00E+00	9.45E-03	0.00E+00	8.55E-05	0.00E+00	4.34E-05	3.70E-03	0.00E+00	4.23E-05	9.45E-03
0265	7.57E-05	2.29E-04	0.00E+00	2.76E-04	0.00E+00	1.04E-02	0.00E+00	9.41E-05	0.00E+00	4.78E-05	4.07E-03	0.00E+00	4.66E-05	1.04E-02
0266	8.50E-05	2.57E-04	0.00E+00	3.09E-04	0.00E+00	1.17E-02	0.00E+00	1.06E-04	0.00E+00	5.37E-05	4.57E-03	0.00E+00	5.23E-05	1.17E-02
0267	9.80E-05	2.96E-04	0.00E+00	3.57E-04	0.00E+00	1.35E-02	0.00E+00	1.22E-04	0.00E+00	6.19E-05	5.27E-03	0.00E+00	6.03E-05	1.35E-02
0268	1.20E-04	3.64E-04	0.00E+00	4.38E-04	0.00E+00	1.65E-02	0.00E+00	1.49E-04	0.00E+00	7.59E-05	6.46E-03	0.00E+00	7.40E-05	1.65E-02
0269	1.31E-04	3.97E-04	0.00E+00	4.77E-04	0.00E+00	1.80E-02	0.00E+00	1.63E-04	0.00E+00	8.28E-05	7.05E-03	0.00E+00	8.07E-05	1.80E-02
0270	1.01E-04	3.05E-04	0.00E+00	3.67E-04	0.00E+00	1.38E-02	0.00E+00	1.25E-04	0.00E+00	6.36E-05	5.42E-03	0.00E+00	6.20E-05	1.38E-02
0271	8.37E-05	2.53E-04	0.00E+00	3.04E-04	0.00E+00	1.15E-02	0.00E+00	1.04E-04	0.00E+00	5.28E-05	4.50E-03	0.00E+00	5.15E-05	1.15E-02
0272	7.16E-05	2.16E-04	0.00E+00	2.61E-04	0.00E+00	9.84E-03	0.00E+00	8.90E-05	0.00E+00	4.52E-05	3.85E-03	0.00E+00	4.41E-05	9.84E-03
0273	6.20E-05	1.87E-04	0.00E+00	2.25E-04	0.00E+00	8.51E-03	0.00E+00	7.70E-05	0.00E+00	3.91E-05	3.33E-03	0.00E+00	3.81E-05	8.51E-03
0274	5.40E-05	1.63E-04	0.00E+00	1.96E-04	0.00E+00	7.42E-03	0.00E+00	6.71E-05	0.00E+00	3.41E-05	2.90E-03	0.00E+00	3.32E-05	7.42E-03
0275	4.75E-05	1.44E-04	0.00E+00	1.73E-04	0.00E+00	6.53E-03	0.00E+00	5.91E-05	0.00E+00	3.00E-05	2.55E-03	0.00E+00	2.92E-05	6.53E-03
0276	6.33E-05	1.91E-04	0.00E+00	2.30E-04	0.00E+00	8.70E-03	0.00E+00	7.87E-05	0.00E+00	4.00E-05	3.40E-03	0.00E+00	3.90E-05	8.70E-03
0277	6.91E-05	2.09E-04	0.00E+00	2.51E-04	0.00E+00	9.49E-03	0.00E+00	8.58E-05	0.00E+00	4.36E-05	3.71E-03	0.00E+00	4.25E-05	9.49E-03
0278	7.61E-05	2.30E-04	0.00E+00	2.77E-04	0.00E+00	1.05E-02	0.00E+00	9.45E-05	0.00E+00	4.80E-05	4.09E-03	0.00E+00	4.68E-05	1.05E-02
0279	8.59E-05	2.60E-04	0.00E+00	3.13E-04	0.00E+00	1.18E-02	0.00E+00	1.07E-04	0.00E+00	5.43E-05	4.62E-03	0.00E+00	5.29E-05	1.18E-02
0280	1.00E-04	3.04E-04	0.00E+00	3.65E-04	0.00E+00	1.38E-02	0.00E+00	1.25E-04	0.00E+00	6.34E-05	5.40E-03	0.00E+00	6.18E-05	1.38E-02
0281	1.24E-04	3.75E-04	0.00E+00	4.51E-04	0.00E+00	1.70E-02	0.00E+00	1.54E-04	0.00E+00	7.83E-05	6.67E-03	0.00E+00	7.63E-05	1.70E-02
0282	1.30E-04	3.92E-04	0.00E+00	4.72E-04	0.00E+00	1.78E-02	0.00E+00	1.61E-04	0.00E+00	8.19E-05	6.97E-03	0.00E+00	7.98E-05	1.78E-02
0283	1.01E-04	3.06E-04	0.00E+00	3.69E-04	0.00E+00	1.39E-02	0.00E+00	1.26E-04	0.00E+00	6.40E-05	5.45E-03	0.00E+00	6.24E-05	1.39E-02
0284	8.61E-05	2.60E-04	0.00E+00	3.13E-04	0.00E+00	1.18E-02	0.00E+00	1.07E-04	0.00E+00	5.44E-05	4.63E-03	0.00E+00	5.30E-05	1.18E-02
0285	7.57E-05	2.29E-04	0.00E+00	2.76E-04	0.00E+00	1.04E-02	0.00E+00	9.41E-05	0.00E+00	4.78E-05	4.07E-03	0.00E+00	4.66E-05	1.04E-02
0286	6.78E-05	2.05E-04	0.00E+00	2.47E-04	0.00E+00	9.31E-03	0.00E+00	8.42E-05	0.00E+00	4.28E-05	3.64E-03	0.00E+00	4.17E-05	9.31E-03
0287	6.12E-05	1.85E-04	0.00E+00	2.23E-04	0.00E+00	8.42E-03	0.00E+00	7.61E-05	0.00E+00	3.87E-05	3.29E-03	0.00E+00	3.77E-05	8.42E-03

0288	5.55E-05	1.68E-04	0.00E+00	2.02E-04	0.00E+00	7.63E-03	0.00E+00	6.90E-05	0.00E+00	3.51E-05	2.98E-03	0.00E+00	3.42E-05	7.63E-03
0289	6.36E-05	1.92E-04	0.00E+00	2.32E-04	0.00E+00	8.75E-03	0.00E+00	7.91E-05	0.00E+00	4.02E-05	3.42E-03	0.00E+00	3.92E-05	8.75E-03
0290	6.96E-05	2.10E-04	0.00E+00	2.53E-04	0.00E+00	9.56E-03	0.00E+00	8.64E-05	0.00E+00	4.39E-05	3.74E-03	0.00E+00	4.28E-05	9.56E-03
0291	7.76E-05	2.34E-04	0.00E+00	2.82E-04	0.00E+00	1.07E-02	0.00E+00	9.64E-05	0.00E+00	4.90E-05	4.17E-03	0.00E+00	4.77E-05	1.07E-02
0292	8.76E-05	2.65E-04	0.00E+00	3.19E-04	0.00E+00	1.20E-02	0.00E+00	1.09E-04	0.00E+00	5.53E-05	4.71E-03	0.00E+00	5.39E-05	1.20E-02
0293	1.02E-04	3.07E-04	0.00E+00	3.69E-04	0.00E+00	1.40E-02	0.00E+00	1.26E-04	0.00E+00	6.41E-05	5.46E-03	0.00E+00	6.25E-05	1.40E-02
0294	1.19E-04	3.60E-04	0.00E+00	4.33E-04	0.00E+00	1.64E-02	0.00E+00	1.48E-04	0.00E+00	7.51E-05	6.40E-03	0.00E+00	7.32E-05	1.64E-02
0295	1.21E-04	3.65E-04	0.00E+00	4.39E-04	0.00E+00	1.66E-02	0.00E+00	1.50E-04	0.00E+00	7.62E-05	6.49E-03	0.00E+00	7.43E-05	1.66E-02
0296	1.22E-04	3.68E-04	0.00E+00	4.43E-04	0.00E+00	1.67E-02	0.00E+00	1.51E-04	0.00E+00	7.68E-05	6.54E-03	0.00E+00	7.49E-05	1.67E-02
0297	1.23E-04	3.73E-04	0.00E+00	4.49E-04	0.00E+00	1.70E-02	0.00E+00	1.53E-04	0.00E+00	7.79E-05	6.63E-03	0.00E+00	7.59E-05	1.70E-02
0298	1.23E-04	3.71E-04	0.00E+00	4.47E-04	0.00E+00	1.69E-02	0.00E+00	1.53E-04	0.00E+00	7.75E-05	6.60E-03	0.00E+00	7.56E-05	1.69E-02
0299	1.22E-04	3.69E-04	0.00E+00	4.44E-04	0.00E+00	1.68E-02	0.00E+00	1.52E-04	0.00E+00	7.70E-05	6.56E-03	0.00E+00	7.51E-05	1.68E-02
0300	1.22E-04	3.68E-04	0.00E+00	4.43E-04	0.00E+00	1.67E-02	0.00E+00	1.51E-04	0.00E+00	7.69E-05	6.54E-03	0.00E+00	7.49E-05	1.67E-02
0301	1.23E-04	3.72E-04	0.00E+00	4.48E-04	0.00E+00	1.69E-02	0.00E+00	1.53E-04	0.00E+00	7.77E-05	6.62E-03	0.00E+00	7.58E-05	1.69E-02
0302	1.22E-04	3.68E-04	0.00E+00	4.43E-04	0.00E+00	1.67E-02	0.00E+00	1.51E-04	0.00E+00	7.69E-05	6.55E-03	0.00E+00	7.50E-05	1.67E-02
0303	1.13E-04	3.41E-04	0.00E+00	4.10E-04	0.00E+00	1.55E-02	0.00E+00	1.40E-04	0.00E+00	7.11E-05	6.06E-03	0.00E+00	6.93E-05	1.55E-02
0304	8.71E-05	2.63E-04	0.00E+00	3.17E-04	0.00E+00	1.20E-02	0.00E+00	1.08E-04	0.00E+00	5.50E-05	4.68E-03	0.00E+00	5.36E-05	1.20E-02
0305	8.11E-05	2.45E-04	0.00E+00	2.95E-04	0.00E+00	1.11E-02	0.00E+00	1.01E-04	0.00E+00	5.12E-05	4.36E-03	0.00E+00	4.99E-05	1.11E-02
0306	7.23E-05	2.19E-04	0.00E+00	2.63E-04	0.00E+00	9.94E-03	0.00E+00	8.99E-05	0.00E+00	4.57E-05	3.89E-03	0.00E+00	4.45E-05	9.94E-03
0307	6.28E-05	1.90E-04	0.00E+00	2.28E-04	0.00E+00	8.63E-03	0.00E+00	7.80E-05	0.00E+00	3.96E-05	3.37E-03	0.00E+00	3.86E-05	8.63E-03
0308	5.70E-05	1.72E-04	0.00E+00	2.07E-04	0.00E+00	7.83E-03	0.00E+00	7.08E-05	0.00E+00	3.60E-05	3.06E-03	0.00E+00	3.51E-05	7.83E-03
0309	5.44E-05	1.64E-04	0.00E+00	1.98E-04	0.00E+00	7.47E-03	0.00E+00	6.76E-05	0.00E+00	3.43E-05	2.92E-03	0.00E+00	3.35E-05	7.47E-03
0310	6.41E-05	1.94E-04	0.00E+00	2.33E-04	0.00E+00	8.81E-03	0.00E+00	7.97E-05	0.00E+00	4.05E-05	3.45E-03	0.00E+00	3.95E-05	8.81E-03
0311	6.97E-05	2.11E-04	0.00E+00	2.53E-04	0.00E+00	9.57E-03	0.00E+00	8.66E-05	0.00E+00	4.40E-05	3.74E-03	0.00E+00	4.29E-05	9.57E-03
0312	7.73E-05	2.34E-04	0.00E+00	2.81E-04	0.00E+00	1.06E-02	0.00E+00	9.60E-05	0.00E+00	4.88E-05	4.15E-03	0.00E+00	4.75E-05	1.06E-02
0313	8.64E-05	2.61E-04	0.00E+00	3.14E-04	0.00E+00	1.19E-02	0.00E+00	1.07E-04	0.00E+00	5.46E-05	4.64E-03	0.00E+00	5.32E-05	1.19E-02
0314	9.52E-05	2.88E-04	0.00E+00	3.46E-04	0.00E+00	1.31E-02	0.00E+00	1.18E-04	0.00E+00	6.01E-05	5.12E-03	0.00E+00	5.86E-05	1.31E-02
0315	9.67E-05	2.92E-04	0.00E+00	3.52E-04	0.00E+00	1.33E-02	0.00E+00	1.20E-04	0.00E+00	6.11E-05	5.20E-03	0.00E+00	5.95E-05	1.33E-02
0316	9.95E-05	3.01E-04	0.00E+00	3.62E-04	0.00E+00	1.37E-02	0.00E+00	1.24E-04	0.00E+00	6.28E-05	5.35E-03	0.00E+00	6.12E-05	1.37E-02
0317	1.00E-04	3.03E-04	0.00E+00	3.65E-04	0.00E+00	1.38E-02	0.00E+00	1.25E-04	0.00E+00	6.33E-05	5.39E-03	0.00E+00	6.17E-05	1.38E-02
0318	1.02E-04	3.07E-04	0.00E+00	3.70E-04	0.00E+00	1.40E-02	0.00E+00	1.26E-04	0.00E+00	6.41E-05	5.46E-03	0.00E+00	6.25E-05	1.40E-02
0319	9.99E-05	3.02E-04	0.00E+00	3.63E-04	0.00E+00	1.37E-02	0.00E+00	1.24E-04	0.00E+00	6.31E-05	5.37E-03	0.00E+00	6.15E-05	1.37E-02
0320	1.00E-04	3.04E-04	0.00E+00	3.66E-04	0.00E+00	1.38E-02	0.00E+00	1.25E-04	0.00E+00	6.34E-05	5.40E-03	0.00E+00	6.18E-05	1.38E-02
0321	9.89E-05	2.99E-04	0.00E+00	3.60E-04	0.00E+00	1.36E-02	0.00E+00	1.23E-04	0.00E+00	6.24E-05	5.31E-03	0.00E+00	6.09E-05	1.36E-02
0322	1.01E-04	3.04E-04	0.00E+00	3.66E-04	0.00E+00	1.38E-02	0.00E+00	1.25E-04	0.00E+00	6.35E-05	5.40E-03	0.00E+00	6.19E-05	1.38E-02
0323	9.65E-05	2.92E-04	0.00E+00	3.51E-04	0.00E+00	1.33E-02	0.00E+00	1.20E-04	0.00E+00	6.09E-05	5.19E-03	0.00E+00	5.94E-05	1.33E-02
0324	9.47E-05	2.86E-04	0.00E+00	3.44E-04	0.00E+00	1.30E-02	0.00E+00	1.18E-04	0.00E+00	5.98E-05	5.09E-03	0.00E+00	5.83E-05	1.30E-02
0325	7.92E-05	2.39E-04	0.00E+00	2.88E-04	0.00E+00	1.09E-02	0.00E+00	9.84E-05	0.00E+00	5.00E-05	4.25E-03	0.00E+00	4.87E-05	1.09E-02
0326	7.01E-05	2.12E-04	0.00E+00	2.55E-04	0.00E+00	9.64E-03	0.00E+00	8.72E-05	0.00E+00	4.43E-05	3.77E-03	0.00E+00	4.32E-05	9.64E-03
0327	6.01E-05	1.82E-04	0.00E+00	2.19E-04	0.00E+00	8.26E-03	0.00E+00	7.47E-05	0.00E+00	3.80E-05	3.23E-03	0.00E+00	3.70E-05	8.26E-03
0328	5.94E-05	1.79E-04	0.00E+00	2.16E-04	0.00E+00	8.16E-03	0.00E+00	7.38E-05	0.00E+00	3.75E-05	3.19E-03	0.00E+00	3.65E-05	8.16E-03
0329	5.72E-05	1.73E-04	0.00E+00	2.08E-04	0.00E+00	7.86E-03	0.00E+00	7.11E-05	0.00E+00	3.61E-05	3.07E-03	0.00E+00	3.52E-05	7.86E-03
0330	5.26E-05	1.59E-04	0.00E+00	1.92E-04	0.00E+00	7.23E-03	0.00E+00	6.54E-05	0.00E+00	3.32E-05	2.83E-03	0.00E+00	3.24E-05	7.23E-03
0331	6.38E-05	1.93E-04	0.00E+00	2.32E-04	0.00E+00	8.76E-03	0.00E+00	7.92E-05	0.00E+00	4.02E-05	3.43E-03	0.00E+00	3.92E-05	8.76E-03
0332	6.73E-05	2.03E-04	0.00E+00	2.45E-04	0.00E+00	9.24E-03	0.00E+00	8.36E-05	0.00E+00	4.25E-05	3.61E-03	0.00E+00	4.14E-05	9.24E-03
0333	7.55E-05	2.28E-04	0.00E+00	2.75E-04	0.00E+00	1.04E-02	0.00E+00	9.38E-05	0.00E+00	4.76E-05	4.05E-03	0.00E+00	4.64E-05	1.04E-02
0334	8.08E-05	2.44E-04	0.00E+00	2.94E-04	0.00E+00	1.11E-02	0.00E+00	1.00E-04	0.00E+00	5.10E-05	4.34E-03	0.00E+00	4.97E-05	1.11E-02
0335	8.07E-05	2.44E-04	0.00E+00	2.94E-04	0.00E+00	1.11E-02	0.00E+00	1.00E-04	0.00E+00	5.10E-05	4.34E-03	0.00E+00	4.97E-05	1.11E-02
0336	8.57E-05	2.59E-04	0.00E+00	3.12E-04	0.00E+00	1.18E-02	0.00E+00	1.06E-04	0.00E+00	5.41E-05	4.60E-03	0.00E+00	5.27E-05	1.18E-02
0337	8.66E-05	2.62E-04	0.00E+00	3.15E-04	0.00E+00	1.19E-02	0.00E+00	1.08E-04	0.00E+00	5.47E-05	4.65E-03	0.00E+00	5.33E-05	1.19E-02
0338	8.73E-05	2.64E-04	0.00E+00	3.18E-04	0.00E+00	1.20E-02	0.00E+00	1.09E-04	0.00E+00	5.51E-05	4.69E-03	0.00E+00	5.38E-05	1.20E-02
0339	8.68E-05	2.62E-04	0.00E+00	3.16E-04	0.00E+00	1.19E-02	0.00E+00	1.08E-04	0.00E+00	5.48E-05	4.66E-03	0.00E+00	5.34E-05	1.19E-02
0340	8.63E-05	2.61E-04	0.00E+00	3.14E-04	0.00E+00	1.19E-02	0.00E+00	1.07E-04	0.00E+00	5.45E-05	4.64E-03	0.00E+00	5.31E-05	1.19E-02
0341	8.72E-05	2.64E-04	0.00E+00	3.17E-04	0.00E+00	1.20E-02	0.00E+00	1.08E-04	0.00E+00	5.50E-05	4.68E-03	0.00E+00	5.37E-05	1.20E-02
0342	8.53E-05	2.58E-04	0.00E+00	3.10E-04	0.00E+00	1.17E-02	0.00E+00	1.06E-04	0.00E+00	5.38E-05	4.58E-03	0.00E+00	5.25E-05	1.17E-02
0343	8.71E-05	2.63E-04	0.00E+00	3.17E-04	0.00E+00	1.20E-02	0.00E+00	1.08E-04	0.00E+00	5.50E-05	4.68E-03	0.00E+00	5.36E-05	1.20E-02
0344	8.00E-05	2.42E-04	0.00E+00	2.91E-04	0.00E+00	1.10E-02	0.00E+00	9.94E-05	0.00E+00	5.05E-05	4.30E-03	0.00E+00	4.92E-05	1.10E-02
0345	8.45E-05	2.56E-04	0.00E+00	3.07E-04	0.00E+00	1.16E-02	0.00E+00	1.05E-04	0.00E+00	5.34E-05	4.54E-03	0.00E+00	5.20E-05	1.16E-02
0346	7.52E-05	2.27E-04	0.00E+00	2.74E-04	0.00E+00	1.03E-02	0.00E+00	9.35E-05	0.00E+00	4.75E-05	4.04E-03	0.00E+00	4.63E-05	1.03E-02
0347	6.37E-05	1.93E-04	0.00E+00	2.32E-04	0.00E+00	8.75E-03	0.00E+00	7.91E-05	0.00E+00	4.02E-05	3.42E-03	0.00E+00	3.92E-05	8.75E-03
0348	5.86E-05	1.77E-04	0.00E+00	2.13E-04	0.00E+00	8.05E-03	0.00E+00	7.28E-05	0.00E+00	3.70E-05	3.15E-03	0.00E+00	3.61E-05	8.05E-03
0349	5.42E-05	1.64E-04	0.00E+00	1.97E-04	0.00E+00	7.45E-03	0.00E+00	6.73E-05	0.00E+00	3.42E-05	2.91E-03	0.00E+00	3.33E-05	7.45E-03
0350	4.65E-05	1.41E-04	0.00E+00	1.69E-04	0.00E+00	6.39E-03	0.00E+00	5.78E-05	0.00E+00	2.94E-05	2.50E-03	0.00E+00	2.86E-05	6.39E-03
0351	4.63E-05	1.40E-04	0.00E+00	1.69E-04	0.00E+00	6.37E-03	0.00E+00	5.76E-05	0.00E+00	2.93E-05	2.49E-03	0.00E+00	2.85E-05	6.37E-03
0352	6.17E-05	1.86E-04	0.00E+00	2.24E-04	0.00E+00	8.47E-03	0.00E+00	7.66E-05	0.00E+00	3.89E-05	3.31E-03	0.00E+00	3.79E-05	8.47E-03
0353	6.70E-05	2.02E-04	0.00E+00	2.44E-04	0.00E+00	9.20E-03	0.00E+00	8.32E-05	0.00E+00	4.23E-05	3.60E-03	0.00E+00	4.12E-05	9.20E-03
0354	7.07E-05	2.14E-04	0.00E+00	2.57E-04	0.00E+00	9.71E-03	0.00E+00	8.78E-05	0.00E+00	4.46E-05	3.80E-03	0.00E+00	4.35E-05	9.71E-03
0355	7.03E-05	2.12E-04	0.00E+00	2.56E-04	0.00E+00	9.66E-03	0.00E+00	8.73E-05	0.00E+00	4.44E-05	3.78E-03	0.00E+00	4.32E-05	9.66E-03
0356	7.55E-05	2.28E-04	0.00E+00	2.75E-04	0.00E+00	1.04E-02	0.00E+00	9.38E-05	0.00E+00	4.76E-05	4.05E-03	0.00E+00	4.64E-05	1.04E-02
0357	7.58E-05	2.29E-04	0.00E+00	2.76E-04	0.00E+00	1.04E-02	0.00E+00	9.42E-05	0.00E+00	4.79E-05	4.07E-03	0.00E+00	4.66E-05	1.04E-02
0358	7.58E-05	2.29E-04	0.00E+00	2.76E-04	0.00E+00	1.04E-02	0.00E+00	9.42E-05	0.00E+00	4.78E-05	4.07E-03	0.00E+00	4.66E-05	1.04E-02
0359	7.82E-05	2.37E-04	0.00E+00	2.85E-04	0.00E+00	1.08E-02	0.00E+00	9.72E-05	0.00E+00	4.94E-05	4.20E-03	0.00E+00	4.81E-05	1.08E-02
0360	7.73E-05	2.34E-04	0.00E+00	2.81E-04	0.00E+00	1.06E-02	0.00E+00	9.61E-05	0.00E+00	4.88E-05	4.15E-03	0.00E+00	4.76E-05	1.06E-02
0361	7.66E-05	2.32E-04	0.00E+00	2.79E-04	0.00E+00	1.05E-02	0.00E+00	9.52E-05	0.00E+00	4.84E-05	4.12E-03	0.00E+00	4.71E-05	1.05E-02
0362	7.76E-05	2.35E-04	0.00E+00	2.82E-04	0.00E+00	1.07E-02	0.00E+00	9.64E-05	0.00E+00	4.90E-05	4.17E-03	0.00E+00	4.78E-05	1.07E-02

0363	7.57E-05	2.29E-04	0.00E+00	2.75E-04	0.00E+00	1.04E-02	0.00E+00	9.40E-05	0.00E+00	4.78E-05	4.07E-03	0.00E+00	4.66E-05	1.04E-02
0364	7.76E-05	2.35E-04	0.00E+00	2.82E-04	0.00E+00	1.07E-02	0.00E+00	9.64E-05	0.00E+00	4.90E-05	4.17E-03	0.00E+00	4.77E-05	1.07E-02
0365	6.88E-05	2.08E-04	0.00E+00	2.50E-04	0.00E+00	9.46E-03	0.00E+00	8.55E-05	0.00E+00	4.35E-05	3.70E-03	0.00E+00	4.24E-05	9.46E-03
0366	7.51E-05	2.27E-04	0.00E+00	2.73E-04	0.00E+00	1.03E-02	0.00E+00	9.33E-05	0.00E+00	4.74E-05	4.03E-03	0.00E+00	4.62E-05	1.03E-02
0367	6.93E-05	2.10E-04	0.00E+00	2.52E-04	0.00E+00	9.52E-03	0.00E+00	8.61E-05	0.00E+00	4.38E-05	3.72E-03	0.00E+00	4.27E-05	9.52E-03
0368	6.18E-05	1.87E-04	0.00E+00	2.25E-04	0.00E+00	8.49E-03	0.00E+00	7.68E-05	0.00E+00	3.90E-05	3.32E-03	0.00E+00	3.80E-05	8.49E-03
0369	5.31E-05	1.60E-04	0.00E+00	1.93E-04	0.00E+00	7.29E-03	0.00E+00	6.60E-05	0.00E+00	3.35E-05	2.85E-03	0.00E+00	3.27E-05	7.29E-03
0370	5.02E-05	1.52E-04	0.00E+00	1.83E-04	0.00E+00	6.90E-03	0.00E+00	6.24E-05	0.00E+00	3.17E-05	2.70E-03	0.00E+00	3.09E-05	6.90E-03
0371	4.87E-05	1.47E-04	0.00E+00	1.77E-04	0.00E+00	6.69E-03	0.00E+00	6.05E-05	0.00E+00	3.07E-05	2.62E-03	0.00E+00	3.00E-05	6.69E-03
0372	4.38E-05	1.32E-04	0.00E+00	1.59E-04	0.00E+00	6.02E-03	0.00E+00	5.44E-05	0.00E+00	2.76E-05	2.35E-03	0.00E+00	2.69E-05	6.02E-03
0373	6.00E-05	1.81E-04	0.00E+00	2.18E-04	0.00E+00	8.24E-03	0.00E+00	7.45E-05	0.00E+00	3.79E-05	3.22E-03	0.00E+00	3.69E-05	8.24E-03
0374	6.30E-05	1.90E-04	0.00E+00	2.29E-04	0.00E+00	8.66E-03	0.00E+00	7.83E-05	0.00E+00	3.98E-05	3.38E-03	0.00E+00	3.88E-05	8.66E-03
0375	6.27E-05	1.90E-04	0.00E+00	2.28E-04	0.00E+00	8.62E-03	0.00E+00	7.79E-05	0.00E+00	3.96E-05	3.37E-03	0.00E+00	3.86E-05	8.62E-03
0376	6.73E-05	2.03E-04	0.00E+00	2.45E-04	0.00E+00	9.24E-03	0.00E+00	8.36E-05	0.00E+00	4.25E-05	3.61E-03	0.00E+00	4.14E-05	9.24E-03
0377	6.73E-05	2.03E-04	0.00E+00	2.45E-04	0.00E+00	9.24E-03	0.00E+00	8.36E-05	0.00E+00	4.25E-05	3.61E-03	0.00E+00	4.14E-05	9.24E-03
0378	6.93E-05	2.09E-04	0.00E+00	2.52E-04	0.00E+00	9.52E-03	0.00E+00	8.61E-05	0.00E+00	4.37E-05	3.72E-03	0.00E+00	4.26E-05	9.52E-03
0379	7.01E-05	2.12E-04	0.00E+00	2.55E-04	0.00E+00	9.63E-03	0.00E+00	8.71E-05	0.00E+00	4.43E-05	3.77E-03	0.00E+00	4.31E-05	9.63E-03
0380	6.94E-05	2.10E-04	0.00E+00	2.53E-04	0.00E+00	9.54E-03	0.00E+00	8.63E-05	0.00E+00	4.38E-05	3.73E-03	0.00E+00	4.27E-05	9.54E-03
0381	6.95E-05	2.10E-04	0.00E+00	2.53E-04	0.00E+00	9.55E-03	0.00E+00	8.64E-05	0.00E+00	4.39E-05	3.74E-03	0.00E+00	4.28E-05	9.55E-03
0382	6.95E-05	2.10E-04	0.00E+00	2.53E-04	0.00E+00	9.56E-03	0.00E+00	8.64E-05	0.00E+00	4.39E-05	3.74E-03	0.00E+00	4.28E-05	9.56E-03
0383	6.99E-05	2.11E-04	0.00E+00	2.54E-04	0.00E+00	9.61E-03	0.00E+00	8.69E-05	0.00E+00	4.42E-05	3.76E-03	0.00E+00	4.30E-05	9.61E-03
0384	6.84E-05	2.07E-04	0.00E+00	2.49E-04	0.00E+00	9.40E-03	0.00E+00	8.50E-05	0.00E+00	4.32E-05	3.68E-03	0.00E+00	4.21E-05	9.40E-03
0385	7.03E-05	2.12E-04	0.00E+00	2.56E-04	0.00E+00	9.66E-03	0.00E+00	8.73E-05	0.00E+00	4.44E-05	3.78E-03	0.00E+00	4.32E-05	9.66E-03
0386	6.15E-05	1.86E-04	0.00E+00	2.24E-04	0.00E+00	8.45E-03	0.00E+00	7.64E-05	0.00E+00	3.88E-05	3.31E-03	0.00E+00	3.79E-05	8.45E-03
0387	6.65E-05	2.01E-04	0.00E+00	2.42E-04	0.00E+00	9.14E-03	0.00E+00	8.27E-05	0.00E+00	4.20E-05	3.58E-03	0.00E+00	4.09E-05	9.14E-03
0388	6.11E-05	1.85E-04	0.00E+00	2.22E-04	0.00E+00	8.40E-03	0.00E+00	7.59E-05	0.00E+00	3.86E-05	3.28E-03	0.00E+00	3.76E-05	8.40E-03
0389	5.82E-05	1.76E-04	0.00E+00	2.12E-04	0.00E+00	8.00E-03	0.00E+00	7.23E-05	0.00E+00	3.67E-05	3.13E-03	0.00E+00	3.58E-05	8.00E-03
0390	5.27E-05	1.59E-04	0.00E+00	1.92E-04	0.00E+00	7.24E-03	0.00E+00	6.55E-05	0.00E+00	3.33E-05	2.83E-03	0.00E+00	3.24E-05	7.24E-03
0391	4.61E-05	1.39E-04	0.00E+00	1.68E-04	0.00E+00	6.34E-03	0.00E+00	5.73E-05	0.00E+00	2.91E-05	2.48E-03	0.00E+00	2.84E-05	6.34E-03
0392	4.42E-05	1.34E-04	0.00E+00	1.61E-04	0.00E+00	6.08E-03	0.00E+00	5.49E-05	0.00E+00	2.79E-05	2.38E-03	0.00E+00	2.72E-05	6.08E-03
0393	4.37E-05	1.32E-04	0.00E+00	1.59E-04	0.00E+00	6.00E-03	0.00E+00	5.42E-05	0.00E+00	2.76E-05	2.35E-03	0.00E+00	2.69E-05	6.00E-03
0394	1.52E-04	4.60E-04	0.00E+00	5.53E-04	0.00E+00	2.09E-02	0.00E+00	1.89E-04	0.00E+00	9.60E-05	8.17E-03	0.00E+00	9.36E-05	2.09E-02
0395	1.54E-04	4.65E-04	0.00E+00	5.59E-04	0.00E+00	2.11E-02	0.00E+00	1.91E-04	0.00E+00	9.70E-05	8.26E-03	0.00E+00	9.46E-05	2.11E-02
0396	1.36E-04	4.13E-04	0.00E+00	4.96E-04	0.00E+00	1.88E-02	0.00E+00	1.70E-04	0.00E+00	8.61E-05	7.33E-03	0.00E+00	8.40E-05	1.88E-02
0397	1.23E-04	3.71E-04	0.00E+00	4.47E-04	0.00E+00	1.69E-02	0.00E+00	1.53E-04	0.00E+00	7.75E-05	6.60E-03	0.00E+00	7.56E-05	1.69E-02
0398	1.47E-04	4.45E-04	0.00E+00	5.36E-04	0.00E+00	2.02E-02	0.00E+00	1.83E-04	0.00E+00	9.30E-05	7.91E-03	0.00E+00	9.06E-05	2.02E-02
0399	1.74E-04	5.27E-04	0.00E+00	6.34E-04	0.00E+00	2.39E-02	0.00E+00	2.16E-04	0.00E+00	1.10E-04	9.36E-03	0.00E+00	1.07E-04	2.39E-02
0400	1.52E-04	4.59E-04	0.00E+00	5.52E-04	0.00E+00	2.09E-02	0.00E+00	1.89E-04	0.00E+00	9.58E-05	8.16E-03	0.00E+00	9.34E-05	2.09E-02

WORKER- CANCER RISK

This file: Rep_Can_WRK_Avg_AllRec_AllSrc_AllCh_ByRec_Site.txt

Created by HARP Version 1.4e Build 23.10.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 7/17/2012 2:15:10 PM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\ Desktop\WG-JTREE\test\JTREE.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: none
Site parameters file: C:\ Desktop\WG-JTREE\test\project.sit

Coordinate system: UTM NAD83

Screening mode is OFF

Exposure duration: Standard work schedule (49 wks/yr, 5 days/wk, 8 hrs/day, 40 yrs)
Analysis method: Point estimate
Health effect: Cancer Risk
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.02

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

HUMAN INGESTION
Fraction of ingested leafy vegetable
from home grown source 0.15
Fraction of ingested exposed vegetable
from home grown source 0.15
Fraction of ingested protected vegetable
from home grown source 0.15
Fraction of ingested root vegetable
from home grown source 0.15

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway enabled ***

SOIL INGESTION

*** Pathway enabled ***

MOTHER'S MILK

*** Pathway enabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	107028	Acrolein	Acrolein	0.000E+00
0002	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0003	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0004	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0005	7440382	Arsenic	Arsenic	0.000E+00
0006	71432	Benzene	Benzene	0.000E+00
0007	7726956	Bromine	Bromine	0.000E+00
0008	7440439	Cadmium	Cadmium	0.000E+00
0009	7782505	Chlorine	Chlorine	0.000E+00
0010	7440473	Chromium	Chromium	0.000E+00
0011	7440484	Cobalt	Cobalt	0.000E+00
0012	7440508	Copper	Copper	0.000E+00
0013	50000	Formaldehyde	Formaldehyde	0.000E+00
0014	7439921	Lead	Lead	0.000E+00
0015	7439965	Manganese	Manganese	0.000E+00
0016	7439976	Mercury	Mercury	0.000E+00
0017	67561	Methanol	Methanol	0.000E+00
0018	108383	m-Xylene	m-Xylene	0.000E+00
0019	91203	Naphthalene	Naphthalene	0.000E+00
0020	7440020	Nickel	Nickel	0.000E+00
0021	95476	o-Xylene	o-Xylene	0.000E+00
0022	106423	p-Xylene	p-Xylene	0.000E+00
0023	7782492	Selenium	Selenium	0.000E+00
0024	100425	Styrene	Styrene	0.000E+00
0025	9960	SULFATES	SULFATES	0.000E+00
0026	108883	Toluene	Toluene	0.000E+00
0027	7440622	Vanadium	Vanadium (fume or dust)	0.000E+00
0028	7440666	Zinc	Zinc	0.000E+00

CHEMICAL HEALTH VALUES

CHEM	CAS	ABBREVIATION	CancerPF(Inh) (mg/kg-d)^-1	CancerPF(Oral) (mg/kg-d)^-1	ChronicREL(Inh) ug/m^3	ChronicREL(Oral) mg/kg-d	AcuteREL ug/m^3
0001	107028	Acrolein	*	*	3.50E-01	*	2.50E+00
0002	9901	DieselExhPM	1.10E+00	*	5.00E+00	*	*
0003	106990	1,3-Butadiene	6.00E-01	*	2.00E+01	*	*
0004	75070	Acetaldehyde	1.00E-02	*	1.40E+02	*	4.70E+02
0005	7440382	Arsenic	1.20E+01	1.50E+00	1.50E-02	3.50E-06	2.00E-01
0006	71432	Benzene	1.00E-01	*	6.00E+01	*	1.30E+03
0007	7726956	Bromine	*	*	*	*	*
0008	7440439	Cadmium	1.50E+01	*	2.00E-02	5.00E-04	*
0009	7782505	Chlorine	*	*	2.00E-01	*	2.10E+02
0010	7440473	Chromium	*	*	*	*	*
0011	7440484	Cobalt	*	*	*	*	*
0012	7440508	Copper	*	*	*	*	1.00E+02
0013	50000	Formaldehyde	2.10E-02	*	9.00E+00	*	5.50E+01
0014	7439921	Lead	4.20E-02	8.50E-03	*	*	*
0015	7439965	Manganese	*	*	9.00E-02	*	*
0016	7439976	Mercury	*	*	3.00E-02	1.60E-04	6.00E-01
0017	67561	Methanol	*	*	4.00E+03	*	2.80E+04
0018	108383	m-Xylene	*	*	7.00E+02	*	2.20E+04
0019	91203	Naphthalene	1.20E-01	*	9.00E+00	*	*
0020	7440020	Nickel	9.10E-01	*	5.00E-02	5.00E-02	6.00E+00
0021	95476	o-Xylene	*	*	7.00E+02	*	2.20E+04
0022	106423	p-Xylene	*	*	7.00E+02	*	2.20E+04
0023	7782492	Selenium	*	*	2.00E+01	*	*
0024	100425	Styrene	*	*	9.00E+02	*	2.10E+04
0025	9960	SULFATES	*	*	*	*	1.20E+02
0026	108883	Toluene	*	*	3.00E+02	*	3.70E+04
0027	7440622	Vanadium	*	*	*	*	3.00E+01
0028	7440666	Zinc	*	*	*	*	*

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\ Desktop\WG-JTREE\test\JTREE1.EMS
EMISSION RATES HAVE BEEN MANUALLY EDITED BY USER
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=PM10EXH EMS (lbs/yr)
SOURCE MULTIPLIER=1

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0	5.00E+00	5.60E-04

9901	DieselExhPM	1	0	3.75E+02	4.00E-02
106990	1,3-Butadiene	1	0		7.06E-04
75070	Acetaldehyde	1	0		2.73E-02
7440382	Arsenic	1	0		1.86E-06
71432	Benzene	1	0		7.44E-03
7726956	Bromine	1	0	5.27E-04	3.46E-05
7440439	Cadmium	1	0		1.49E-05
7782505	Chlorine	1	0	7.38E-02	1.56E-04
7440473	Chromium	1	0	5.27E-04	2.80E-05
7440484	Cobalt	1		5.27E-04	2.80E-05
7440508	Copper	1	0	5.27E-04	3.72E-05
50000	Formaldehyde	1	0		5.47E-02
7439921	Lead	1	0		1.56E-05
7439965	Manganese	1	0	5.27E-04	4.28E-05
7439976	Mercury	1	0		1.12E-05
67561	Methanol	1	0		1.12E-04
108383	m-Xylene	1			2.27E-03
91203	Naphthalene	1	0		3.16E-04
7440020	Nickel	1	0	5.27E-04	3.50E-05
95476	o-Xylene	1	0		1.25E-03
106423	p-Xylene	1	0		3.53E-04
7782492	Selenium	1	0		3.72E-06
100425	Styrene	1	0		2.16E-04
9960	SULFATES	1	0	4.74E-01	2.52E-02
108883	Toluene	1	0		5.48E-03
7440622	Vanadium	1	0		1.08E-05
7440666	Zinc	1	0	5.27E-04	2.80E-05

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=ACRLN EMS (lbs/yr)
SOURCE MULTIPLIER=0

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0		
9901	DieselExhPM	1	0		
106990	1,3-Butadiene	1	0		
75070	Acetaldehyde	1	0		
7440382	Arsenic	1	0		
71432	Benzene	1	0		
7726956	Bromine	1	0		
7440439	Cadmium	1	0		
7782505	Chlorine	1	0		
7440473	Chromium	1	0		
7440484	Cobalt	1			
7440508	Copper	1	0		
50000	Formaldehyde	1	0		
7439921	Lead	1	0		
7439965	Manganese	1	0		
7439976	Mercury	1	0		
67561	Methanol	1	0		
108383	m-Xylene	1			
91203	Naphthalene	1	0		
7440020	Nickel	1	0		
95476	o-Xylene	1	0		
106423	p-Xylene	1	0		
7782492	Selenium	1	0		
100425	Styrene	1	0		
9960	SULFATES	1	0		
108883	Toluene	1	0		
7440622	Vanadium	1	0		
7440666	Zinc	1	0		

CANCER RISK REPORT

REC	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL
0001	6.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-08
0002	7.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-08
0003	7.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-08
0004	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-08
0005	8.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-08
0006	8.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-08
0007	8.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-08
0008	8.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-08
0009	7.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-08
0010	6.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-08
0011	5.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-08
0012	4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-08
0013	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-08

0014	3.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-08
0015	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-08
0016	2.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-08
0017	2.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-08
0018	2.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-08
0019	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-08
0020	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-08
0021	1.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-08
0022	6.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-08
0023	7.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-08
0024	8.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-08
0025	8.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-08
0026	9.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-08
0027	9.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-08
0028	9.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-08
0029	9.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-08
0030	9.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-08
0031	8.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-08
0032	7.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-08
0033	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-08
0034	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-08
0035	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-08
0036	3.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-08
0037	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-08
0038	2.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-08
0039	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-08
0040	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-08
0041	2.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-08
0042	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-08
0043	7.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-08
0044	8.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-08
0045	8.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-08
0046	9.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-08
0047	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-07
0048	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-07
0049	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07
0050	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-07
0051	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07
0052	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07
0053	8.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-08
0054	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-08
0055	5.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-08
0056	4.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-08
0057	4.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-08
0058	3.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-08
0059	3.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-08
0060	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-08
0061	2.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-08
0062	2.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-08
0063	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-08
0064	7.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-08
0065	8.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-08
0066	9.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-08
0067	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07
0068	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07
0069	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07
0070	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-07
0071	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-07
0072	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-07
0073	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07
0074	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-07
0075	9.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-08
0076	7.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-08
0077	6.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-08
0078	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-08
0079	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-08
0080	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-08
0081	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-08
0082	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-08
0083	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-08
0084	2.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-08
0085	7.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-08
0086	8.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-08
0087	9.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-08
0088	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07

0089	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-07
0090	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-07
0091	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07
0092	1.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-07
0093	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-07
0094	1.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07
0095	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07
0096	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-07
0097	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07
0098	7.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-08
0099	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-08
0100	5.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-08
0101	4.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-08
0102	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-08
0103	3.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-08
0104	3.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-08
0105	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-08
0106	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-08
0107	9.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-08
0108	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-07
0109	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-07
0110	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07
0111	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07
0112	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-07
0113	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-07
0114	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-07
0115	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-07
0116	2.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-07
0117	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-07
0118	1.56E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-07
0119	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07
0120	8.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-08
0121	6.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-08
0122	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-08
0123	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-08
0124	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-08
0125	3.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-08
0126	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-08
0127	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-08
0128	9.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-08
0129	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07
0130	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-07
0131	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07
0132	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-07
0133	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-07
0134	2.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-07
0135	2.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-07
0136	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-07
0137	3.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-07
0138	3.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-07
0139	2.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-07
0140	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-07
0141	1.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-07
0142	9.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-08
0143	6.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-08
0144	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-08
0145	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-08
0146	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-08
0147	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-08
0148	8.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-08
0149	9.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-08
0150	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-07
0151	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-07
0152	1.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-07
0153	1.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-07
0154	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-07
0155	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-07
0156	2.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-07
0157	4.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-07
0158	7.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-07
0159	8.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-07
0160	8.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-07
0161	6.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-07
0162	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-07
0163	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-07

0164	8.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-08
0165	6.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-08
0166	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-08
0167	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-08
0168	3.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-08
0169	8.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-08
0170	9.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-08
0171	1.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-07
0172	1.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07
0173	1.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-07
0174	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-07
0175	2.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-07
0176	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-07
0177	3.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-07
0178	4.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-07
0179	5.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-07
0180	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-07
0181	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07
0182	7.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-08
0183	5.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-08
0184	4.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-08
0185	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-08
0186	7.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-08
0187	9.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-08
0188	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-07
0189	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-07
0190	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-07
0191	2.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-07
0192	2.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-07
0193	3.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-07
0194	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-07
0195	5.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-07
0196	6.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-07
0197	2.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-07
0198	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-07
0199	8.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-08
0200	6.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-08
0201	4.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-08
0202	3.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-08
0203	7.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-08
0204	9.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-08
0205	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-07
0206	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-07
0207	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07
0208	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-07
0209	3.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-07
0210	4.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-07
0211	4.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-07
0212	6.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-07
0213	7.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-07
0214	2.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-07
0215	1.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-07
0216	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-07
0217	6.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-08
0218	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-08
0219	3.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-08
0220	7.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-08
0221	9.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-08
0222	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-07
0223	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07
0224	2.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-07
0225	3.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-07
0226	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-07
0227	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-07
0228	7.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-07
0229	8.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-07
0230	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-07
0231	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-07
0232	1.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-07
0233	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-07
0234	7.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-08
0235	5.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-08
0236	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-08
0237	7.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-08
0238	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-08

0239	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-07
0240	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-07
0241	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-07
0242	3.96E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-07
0243	7.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-07
0244	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-07
0245	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-07
0246	1.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-07
0247	8.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-08
0248	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-08
0249	4.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-08
0250	7.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-08
0251	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-08
0252	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07
0253	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07
0254	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-07
0255	3.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-07
0256	7.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-07
0257	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-07
0258	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-07
0259	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07
0260	9.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-08
0261	6.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-08
0262	5.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-08
0263	7.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-08
0264	8.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-08
0265	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07
0266	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07
0267	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-07
0268	3.24E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-07
0269	7.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-07
0270	3.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-07
0271	2.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-07
0272	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-07
0273	9.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-08
0274	7.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-08
0275	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-08
0276	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-08
0277	7.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-08
0278	9.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-08
0279	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-07
0280	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-07
0281	2.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-07
0282	6.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-07
0283	3.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-07
0284	1.99E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-07
0285	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-07
0286	1.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07
0287	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-08
0288	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-08
0289	5.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-08
0290	6.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-08
0291	7.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-08
0292	8.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-08
0293	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07
0294	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-07
0295	2.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-07
0296	3.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-07
0297	4.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-07
0298	5.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-07
0299	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-07
0300	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-07
0301	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-07
0302	5.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-07
0303	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-07
0304	2.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-07
0305	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-07
0306	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-07
0307	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-07
0308	7.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-08
0309	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-08
0310	4.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-08
0311	5.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-08
0312	6.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-08
0313	6.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-08

0314	8.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-08
0315	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-07
0316	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-07
0317	1.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-07
0318	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-07
0319	2.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07
0320	2.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-07
0321	3.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-07
0322	3.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-07
0323	2.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-07
0324	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-07
0325	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-07
0326	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-07
0327	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-07
0328	1.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-07
0329	7.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-08
0330	6.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-08
0331	4.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-08
0332	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-08
0333	4.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-08
0334	5.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-08
0335	6.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-08
0336	7.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-08
0337	9.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-08
0338	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-07
0339	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07
0340	1.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-07
0341	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-07
0342	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-07
0343	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-07
0344	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-07
0345	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-07
0346	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-07
0347	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-07
0348	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-07
0349	9.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-08
0350	7.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-08
0351	6.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-08
0352	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-08
0353	3.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-08
0354	4.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-08
0355	4.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-08
0356	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-08
0357	6.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-08
0358	7.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-08
0359	8.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-08
0360	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-07
0361	1.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-07
0362	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-07
0363	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-07
0364	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07
0365	1.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-07
0366	1.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-07
0367	1.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-07
0368	1.18E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-07
0369	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07
0370	8.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-08
0371	7.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-08
0372	6.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-08
0373	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-08
0374	3.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-08
0375	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-08
0376	4.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-08
0377	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-08
0378	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-08
0379	6.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-08
0380	6.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-08
0381	7.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-08
0382	8.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-08
0383	9.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-08
0384	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07
0385	1.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-07
0386	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07
0387	1.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07
0388	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07

0389	9.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-08
0390	9.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-08
0391	8.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-08
0392	7.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-08
0393	6.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-08
0394	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-06
0395	4.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-07
0396	5.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-07
0397	1.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-06
0398	6.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-07
0399	3.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-07
0400	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06

WORKER- CHRONIC RISK

This file: Rep_Chr_Wrk_PtEst_AllRec_AllSrc_AllCh_ByRec_Site.txt

Created by HARP Version 1.4e Build 23.10.01
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 7/17/2012 2:15:38 PM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file: C:\ Desktop\WG-JTREE\test\JTREE.SRC
Averaging period adjustment factors file: not applicable
Emission rates file: none
Site parameters file: C:\ Desktop\WG-JTREE\test\project.sit

Coordinate system: UTM NAD83

Screening mode is OFF

Exposure duration: Standard work schedule (49 wks/yr, 5 days/wk, 8 hrs/day, 40 yrs)
Analysis method: Point estimate
Health effect: Chronic HI
Receptor(s): All
Sources(s): All
Chemicals(s): All

SITE PARAMETERS

DEPOSITION

Deposition rate (m/s) 0.02

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

HUMAN INGESTION
Fraction of ingested leafy vegetable
from home grown source 0.15
Fraction of ingested exposed vegetable
from home grown source 0.15
Fraction of ingested protected vegetable
from home grown source 0.15
Fraction of ingested root vegetable
from home grown source 0.15

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway enabled ***

SOIL INGESTION

*** Pathway enabled ***

MOTHER'S MILK

*** Pathway enabled ***

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	107028	Acrolein	Acrolein	0.000E+00
0002	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0003	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0004	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0005	7440382	Arsenic	Arsenic	0.000E+00
0006	71432	Benzene	Benzene	0.000E+00
0007	7726956	Bromine	Bromine	0.000E+00
0008	7440439	Cadmium	Cadmium	0.000E+00
0009	7782505	Chlorine	Chlorine	0.000E+00
0010	7440473	Chromium	Chromium	0.000E+00
0011	7440484	Cobalt	Cobalt	0.000E+00
0012	7440508	Copper	Copper	0.000E+00
0013	50000	Formaldehyde	Formaldehyde	0.000E+00
0014	7439921	Lead	Lead	0.000E+00
0015	7439965	Manganese	Manganese	0.000E+00
0016	7439976	Mercury	Mercury	0.000E+00
0017	67561	Methanol	Methanol	0.000E+00
0018	108383	m-Xylene	m-Xylene	0.000E+00
0019	91203	Naphthalene	Naphthalene	0.000E+00
0020	7440020	Nickel	Nickel	0.000E+00
0021	95476	o-Xylene	o-Xylene	0.000E+00
0022	106423	p-Xylene	p-Xylene	0.000E+00
0023	7782492	Selenium	Selenium	0.000E+00
0024	100425	Styrene	Styrene	0.000E+00
0025	9960	SULFATES	SULFATES	0.000E+00
0026	108883	Toluene	Toluene	0.000E+00
0027	7440622	Vanadium	Vanadium (fume or dust)	0.000E+00
0028	7440666	Zinc	Zinc	0.000E+00

CHEMICAL HEALTH VALUES

CHEM	CAS	ABBREVIATION	CancerPF(Inh) (mg/kg-d)^-1	CancerPF(Oral) (mg/kg-d)^-1	ChronicREL(Inh) ug/m^3	ChronicREL(Oral) mg/kg-d	AcuteREL ug/m^3
0001	107028	Acrolein	*	*	3.50E-01	*	2.50E+00
0002	9901	DieselExhPM	1.10E+00	*	5.00E+00	*	*
0003	106990	1,3-Butadiene	6.00E-01	*	2.00E+01	*	*
0004	75070	Acetaldehyde	1.00E-02	*	1.40E+02	*	4.70E+02
0005	7440382	Arsenic	1.20E+01	1.50E+00	1.50E-02	3.50E-06	2.00E-01
0006	71432	Benzene	1.00E-01	*	6.00E+01	*	1.30E+03
0007	7726956	Bromine	*	*	*	*	*
0008	7440439	Cadmium	1.50E+01	*	2.00E-02	5.00E-04	*
0009	7782505	Chlorine	*	*	2.00E-01	*	2.10E+02
0010	7440473	Chromium	*	*	*	*	*
0011	7440484	Cobalt	*	*	*	*	*
0012	7440508	Copper	*	*	*	*	1.00E+02
0013	50000	Formaldehyde	2.10E-02	*	9.00E+00	*	5.50E+01
0014	7439921	Lead	4.20E-02	8.50E-03	*	*	*
0015	7439965	Manganese	*	*	9.00E-02	*	*
0016	7439976	Mercury	*	*	3.00E-02	1.60E-04	6.00E-01
0017	67561	Methanol	*	*	4.00E+03	*	2.80E+04
0018	108383	m-Xylene	*	*	7.00E+02	*	2.20E+04
0019	91203	Naphthalene	1.20E-01	*	9.00E+00	*	*
0020	7440020	Nickel	9.10E-01	*	5.00E-02	5.00E-02	6.00E+00
0021	95476	o-Xylene	*	*	7.00E+02	*	2.20E+04
0022	106423	p-Xylene	*	*	7.00E+02	*	2.20E+04
0023	7782492	Selenium	*	*	2.00E+01	*	*
0024	100425	Styrene	*	*	9.00E+02	*	2.10E+04
0025	9960	SULFATES	*	*	*	*	1.20E+02
0026	108883	Toluene	*	*	3.00E+02	*	3.70E+04
0027	7440622	Vanadium	*	*	*	*	3.00E+01
0028	7440666	Zinc	*	*	*	*	*

EMISSIONS DATA SOURCE: Emission rates loaded from file: C:\ Desktop\WG-JTREE\test\JTREE1.EMS
EMISSION RATES HAVE BEEN MANUALLY EDITED BY USER
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=1 NAME=PM10EXH EMS (lbs/yr)
SOURCE MULTIPLIER=1

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0	5.00E+00	5.60E-04

9901	DieselExhPM	1	0	3.75E+02	4.00E-02
106990	1,3-Butadiene	1	0		7.06E-04
75070	Acetaldehyde	1	0		2.73E-02
7440382	Arsenic	1	0		1.86E-06
71432	Benzene	1	0		7.44E-03
7726956	Bromine	1	0	5.27E-04	3.46E-05
7440439	Cadmium	1	0		1.49E-05
7782505	Chlorine	1	0	7.38E-02	1.56E-04
7440473	Chromium	1	0	5.27E-04	2.80E-05
7440484	Cobalt	1		5.27E-04	2.80E-05
7440508	Copper	1	0	5.27E-04	3.72E-05
50000	Formaldehyde	1	0		5.47E-02
7439921	Lead	1	0		1.56E-05
7439965	Manganese	1	0	5.27E-04	4.28E-05
7439976	Mercury	1	0		1.12E-05
67561	Methanol	1	0		1.12E-04
108383	m-Xylene	1			2.27E-03
91203	Naphthalene	1	0		3.16E-04
7440020	Nickel	1	0	5.27E-04	3.50E-05
95476	o-Xylene	1	0		1.25E-03
106423	p-Xylene	1	0		3.53E-04
7782492	Selenium	1	0		3.72E-06
100425	Styrene	1	0		2.16E-04
9960	SULFATES	1	0	4.74E-01	2.52E-02
108883	Toluene	1	0		5.48E-03
7440622	Vanadium	1	0		1.08E-05
7440666	Zinc	1	0	5.27E-04	2.80E-05

EMISSIONS FOR FACILITY FAC=1 DEV=* PRO=* STK=2 NAME=ACRLN EMS (lbs/yr)
SOURCE MULTIPLIER=0

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)
107028	Acrolein	1	0		
9901	DieselExhPM	1	0		
106990	1,3-Butadiene	1	0		
75070	Acetaldehyde	1	0		
7440382	Arsenic	1	0		
71432	Benzene	1	0		
7726956	Bromine	1	0		
7440439	Cadmium	1	0		
7782505	Chlorine	1	0		
7440473	Chromium	1	0		
7440484	Cobalt	1			
7440508	Copper	1	0		
50000	Formaldehyde	1	0		
7439921	Lead	1	0		
7439965	Manganese	1	0		
7439976	Mercury	1	0		
67561	Methanol	1	0		
108383	m-Xylene	1			
91203	Naphthalene	1	0		
7440020	Nickel	1	0		
95476	o-Xylene	1	0		
106423	p-Xylene	1	0		
7782492	Selenium	1	0		
100425	Styrene	1	0		
9960	SULFATES	1	0		
108883	Toluene	1	0		
7440622	Vanadium	1	0		
7440666	Zinc	1	0		

CHRONIC HI REPORT

REC	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
0001	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	2.97E-08	2.53E-04
0002	0.00E+00	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-10	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	3.21E-08	2.73E-04
0003	0.00E+00	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-10	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	3.41E-08	2.90E-04
0004	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	3.59E-08	3.05E-04
0005	0.00E+00	2.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-10	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	3.70E-08	3.15E-04
0006	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	3.77E-08	3.20E-04
0007	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	3.76E-08	3.20E-04
0008	0.00E+00	2.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-10	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	3.64E-08	3.09E-04
0009	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	3.39E-08	2.88E-04
0010	0.00E+00	1.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-10	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	2.98E-08	2.54E-04
0011	0.00E+00	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-10	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	2.55E-08	2.17E-04
0012	0.00E+00	1.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-10	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	2.14E-08	1.82E-04
0013	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	1.82E-08	1.55E-04

0014	0.00E+00	8.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-10	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	1.59E-08	1.35E-04
0015	0.00E+00	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-10	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	1.43E-08	1.22E-04
0016	0.00E+00	7.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-10	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	1.28E-08	1.09E-04
0017	0.00E+00	6.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-11	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	1.16E-08	9.90E-05
0018	0.00E+00	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-11	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	1.05E-08	8.96E-05
0019	0.00E+00	5.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-11	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	9.57E-09	8.14E-05
0020	0.00E+00	4.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-11	0.00E+00	0.00E+00	0.00E+00	7.42E-05	0.00E+00	8.72E-09	7.42E-05
0021	0.00E+00	4.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-11	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	8.01E-09	6.81E-05
0022	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-10	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	3.12E-08	2.65E-04
0023	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-10	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	3.41E-08	2.90E-04
0024	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	3.69E-08	3.14E-04
0025	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.94E-08	3.36E-04
0026	0.00E+00	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-10	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	4.13E-08	3.51E-04
0027	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	4.27E-08	3.63E-04
0028	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-10	0.00E+00	0.00E+00	0.00E+00	3.70E-04	0.00E+00	4.35E-08	3.70E-04
0029	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-10	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	4.30E-08	3.66E-04
0030	0.00E+00	2.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-10	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	4.10E-08	3.49E-04
0031	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	3.69E-08	3.14E-04
0032	0.00E+00	1.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-10	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	3.15E-08	2.68E-04
0033	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-10	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	2.60E-08	2.22E-04
0034	0.00E+00	1.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-10	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	2.17E-08	1.84E-04
0035	0.00E+00	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-10	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	1.86E-08	1.58E-04
0036	0.00E+00	9.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-10	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	1.64E-08	1.40E-04
0037	0.00E+00	8.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-10	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	1.46E-08	1.24E-04
0038	0.00E+00	7.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-10	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	1.31E-08	1.11E-04
0039	0.00E+00	6.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-11	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	1.17E-08	9.98E-05
0040	0.00E+00	5.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-11	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	1.06E-08	9.01E-05
0041	0.00E+00	5.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-11	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	9.61E-09	8.18E-05
0042	0.00E+00	4.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-11	0.00E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	8.83E-09	7.51E-05
0043	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-10	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	3.25E-08	2.76E-04
0044	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-10	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	3.60E-08	3.06E-04
0045	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.94E-08	3.36E-04
0046	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-10	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	4.28E-08	3.64E-04
0047	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-10	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	4.57E-08	3.88E-04
0048	0.00E+00	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-10	0.00E+00	0.00E+00	0.00E+00	4.09E-04	0.00E+00	4.81E-08	4.09E-04
0049	0.00E+00	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-10	0.00E+00	0.00E+00	0.00E+00	4.26E-04	0.00E+00	5.01E-08	4.26E-04
0050	0.00E+00	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	5.11E-08	4.35E-04
0051	0.00E+00	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-10	0.00E+00	0.00E+00	0.00E+00	4.27E-04	0.00E+00	5.01E-08	4.27E-04
0052	0.00E+00	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	4.62E-08	3.93E-04
0053	0.00E+00	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-10	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	3.98E-08	3.38E-04
0054	0.00E+00	1.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-10	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	3.27E-08	2.78E-04
0055	0.00E+00	1.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-10	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	2.65E-08	2.26E-04
0056	0.00E+00	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-10	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	2.21E-08	1.88E-04
0057	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-10	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	1.93E-08	1.64E-04
0058	0.00E+00	9.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-10	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	1.69E-08	1.44E-04
0059	0.00E+00	8.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-10	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	1.49E-08	1.27E-04
0060	0.00E+00	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-10	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	1.32E-08	1.13E-04
0061	0.00E+00	6.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-11	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	1.18E-08	1.01E-04
0062	0.00E+00	5.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-11	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	1.07E-08	9.14E-05
0063	0.00E+00	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-11	0.00E+00	0.00E+00	0.00E+00	8.41E-05	0.00E+00	9.89E-09	8.41E-05
0064	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	3.35E-08	2.85E-04
0065	0.00E+00	2.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-10	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	3.76E-08	3.20E-04
0066	0.00E+00	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-10	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	4.19E-08	3.57E-04
0067	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-10	0.00E+00	0.00E+00	0.00E+00	3.92E-04	0.00E+00	4.61E-08	3.92E-04
0068	0.00E+00	2.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-10	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	5.00E-08	4.25E-04
0069	0.00E+00	2.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-10	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	5.36E-08	4.56E-04
0070	0.00E+00	3.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-10	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	5.74E-08	4.88E-04
0071	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-10	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	6.07E-08	5.16E-04
0072	0.00E+00	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-10	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	6.18E-08	5.26E-04
0073	0.00E+00	3.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-10	0.00E+00	0.00E+00	0.00E+00	5.01E-04	0.00E+00	5.89E-08	5.01E-04
0074	0.00E+00	2.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-10	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	5.18E-08	4.41E-04
0075	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	4.29E-08	3.65E-04
0076	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-10	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	3.39E-08	2.88E-04
0077	0.00E+00	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-10	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	2.72E-08	2.32E-04
0078	0.00E+00	1.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-10	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	2.32E-08	1.97E-04
0079	0.00E+00	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-10	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	1.99E-08	1.69E-04
0080	0.00E+00	9.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-10	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	1.72E-08	1.47E-04
0081	0.00E+00	8.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-10	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	1.52E-08	1.29E-04
0082	0.00E+00	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-10	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	1.35E-08	1.15E-04
0083	0.00E+00	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-11	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	1.22E-08	1.03E-04
0084	0.00E+00	6.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-11	0.00E+00	0.00E+00	0.00E+00	9.40E-05	0.00E+00	1.11E-08	9.40E-05
0085	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-10	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	3.45E-08	2.94E-04
0086	0.00E+00	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	3.92E-08	3.33E-04
0087	0.00E+00	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-10	0.00E+00	0.00E+00	0.00E+00	3.76E-04	0.00E+00	4.42E-08	3.76E-04
0088	0.00E+00	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-10	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	4.93E-08	4.19E-04

0089	0.00E+00	3.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-10	0.00E+00	0.00E+00	0.00E+00	4.63E-04	0.00E+00	5.44E-08	4.63E-04
0090	0.00E+00	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-10	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	5.93E-08	5.04E-04
0091	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	5.52E-04	0.00E+00	6.48E-08	5.52E-04
0092	0.00E+00	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-10	0.00E+00	0.00E+00	0.00E+00	6.06E-04	0.00E+00	7.13E-08	6.06E-04
0093	0.00E+00	4.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-10	0.00E+00	0.00E+00	0.00E+00	6.50E-04	0.00E+00	7.64E-08	6.50E-04
0094	0.00E+00	4.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-10	0.00E+00	0.00E+00	0.00E+00	6.55E-04	0.00E+00	7.70E-08	6.55E-04
0095	0.00E+00	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-10	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	7.02E-08	5.97E-04
0096	0.00E+00	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-10	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	5.96E-08	5.07E-04
0097	0.00E+00	2.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	4.62E-08	3.93E-04
0098	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-10	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	3.52E-08	3.00E-04
0099	0.00E+00	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	2.88E-08	2.45E-04
0100	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-10	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	2.42E-08	2.06E-04
0101	0.00E+00	1.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-10	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	2.05E-08	1.75E-04
0102	0.00E+00	9.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-10	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	1.77E-08	1.51E-04
0103	0.00E+00	8.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-10	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	1.55E-08	1.32E-04
0104	0.00E+00	7.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-10	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	1.37E-08	1.17E-04
0105	0.00E+00	6.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-11	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	1.22E-08	1.04E-04
0106	0.00E+00	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	3.53E-08	3.01E-04
0107	0.00E+00	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-10	0.00E+00	0.00E+00	0.00E+00	3.46E-04	0.00E+00	4.06E-08	3.46E-04
0108	0.00E+00	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-10	0.00E+00	0.00E+00	0.00E+00	3.97E-04	0.00E+00	4.67E-08	3.97E-04
0109	0.00E+00	2.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-10	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	5.29E-08	4.50E-04
0110	0.00E+00	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-10	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	5.90E-08	5.02E-04
0111	0.00E+00	3.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-10	0.00E+00	0.00E+00	0.00E+00	5.53E-04	0.00E+00	6.50E-08	5.53E-04
0112	0.00E+00	4.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-10	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	7.21E-08	6.13E-04
0113	0.00E+00	4.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-10	0.00E+00	0.00E+00	0.00E+00	6.94E-04	0.00E+00	8.16E-08	6.94E-04
0114	0.00E+00	5.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-10	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	9.32E-08	7.93E-04
0115	0.00E+00	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-10	0.00E+00	0.00E+00	0.00E+00	8.70E-04	0.00E+00	1.02E-07	8.70E-04
0116	0.00E+00	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-10	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	9.96E-08	8.47E-04
0117	0.00E+00	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-10	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	8.84E-08	7.52E-04
0118	0.00E+00	3.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-10	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	6.97E-08	5.93E-04
0119	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-10	0.00E+00	0.00E+00	0.00E+00	4.23E-04	0.00E+00	4.98E-08	4.23E-04
0120	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	3.84E-08	3.26E-04
0121	0.00E+00	1.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-10	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	3.06E-08	2.60E-04
0122	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-10	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	2.50E-08	2.12E-04
0123	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-10	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	2.09E-08	1.77E-04
0124	0.00E+00	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-10	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	1.77E-08	1.50E-04
0125	0.00E+00	8.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-10	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	1.52E-08	1.29E-04
0126	0.00E+00	7.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-10	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.32E-08	1.12E-04
0127	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	3.59E-08	3.05E-04
0128	0.00E+00	2.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-10	0.00E+00	0.00E+00	0.00E+00	3.58E-04	0.00E+00	4.20E-08	3.58E-04
0129	0.00E+00	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-10	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	4.92E-08	4.19E-04
0130	0.00E+00	3.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-10	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	5.65E-08	4.81E-04
0131	0.00E+00	3.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-10	0.00E+00	0.00E+00	0.00E+00	5.48E-04	0.00E+00	6.44E-08	5.48E-04
0132	0.00E+00	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-10	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	7.18E-08	6.11E-04
0133	0.00E+00	4.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-10	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	8.02E-08	6.82E-04
0134	0.00E+00	5.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-10	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	9.23E-08	7.85E-04
0135	0.00E+00	6.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-10	0.00E+00	0.00E+00	0.00E+00	9.45E-04	0.00E+00	1.11E-07	9.45E-04
0136	0.00E+00	7.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-09	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	1.39E-07	1.18E-03
0137	0.00E+00	8.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	1.53E-07	1.30E-03
0138	0.00E+00	8.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-09	0.00E+00	0.00E+00	0.00E+00	1.25E-03	0.00E+00	1.47E-07	1.25E-03
0139	0.00E+00	6.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-10	0.00E+00	0.00E+00	0.00E+00	1.05E-03	0.00E+00	1.24E-07	1.05E-03
0140	0.00E+00	4.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-10	0.00E+00	0.00E+00	0.00E+00	7.38E-04	0.00E+00	8.68E-08	7.38E-04
0141	0.00E+00	3.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-10	0.00E+00	0.00E+00	0.00E+00	4.78E-04	0.00E+00	5.61E-08	4.78E-04
0142	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	4.03E-08	3.43E-04
0143	0.00E+00	1.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-10	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	3.05E-08	2.59E-04
0144	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-10	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	2.41E-08	2.05E-04
0145	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-10	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	1.97E-08	1.68E-04
0146	0.00E+00	9.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-10	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	1.65E-08	1.40E-04
0147	0.00E+00	7.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-10	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	1.40E-08	1.19E-04
0148	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-10	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	3.61E-08	3.07E-04
0149	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-10	0.00E+00	0.00E+00	0.00E+00	3.67E-04	0.00E+00	4.31E-08	3.67E-04
0150	0.00E+00	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-10	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	5.15E-08	4.38E-04
0151	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-10	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	6.13E-08	5.21E-04
0152	0.00E+00	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-10	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	7.13E-08	6.07E-04
0153	0.00E+00	4.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-10	0.00E+00	0.00E+00	0.00E+00	6.86E-04	0.00E+00	8.07E-08	6.86E-04
0154	0.00E+00	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-10	0.00E+00	0.00E+00	0.00E+00	7.70E-04	0.00E+00	9.05E-08	7.70E-04
0155	0.00E+00	5.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-10	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	1.05E-07	8.91E-04
0156	0.00E+00	7.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-09	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	1.30E-07	1.10E-03
0157	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-09	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	1.84E-07	1.56E-03
0158	0.00E+00	1.76E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-09	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	3.16E-07	2.69E-03
0159	0.00E+00	2.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-09	0.00E+00	0.00E+00	0.00E+00	3.25E-03	0.00E+00	3.82E-07	3.25E-03
0160	0.00E+00	2.01E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-09	0.00E+00	0.00E+00	0.00E+00	3.08E-03	0.00E+00	3.62E-07	3.08E-03
0161	0.00E+00	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-09	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	3.08E-07	2.62E-03
0162	0.00E+00	5.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-10	0.00E+00	0.00E+00	0.00E+00	9.11E-04	0.00E+00	1.07E-07	9.11E-04
0163	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-10	0.00E+00	0.00E+00	0.00E+00	4.67E-04	0.00E+00	5.49E-08	4.67E-04

0164	0.00E+00	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-10	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	3.72E-08	3.17E-04
0165	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-10	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	2.79E-08	2.37E-04
0166	0.00E+00	1.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-10	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	2.20E-08	1.87E-04
0167	0.00E+00	9.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-10	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	1.79E-08	1.52E-04
0168	0.00E+00	8.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-10	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	1.49E-08	1.27E-04
0169	0.00E+00	1.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-10	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	3.59E-08	3.05E-04
0170	0.00E+00	2.42E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-10	0.00E+00	0.00E+00	0.00E+00	3.71E-04	0.00E+00	4.36E-08	3.71E-04
0171	0.00E+00	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-10	0.00E+00	0.00E+00	0.00E+00	4.55E-04	0.00E+00	5.35E-08	4.55E-04
0172	0.00E+00	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-10	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	6.57E-08	5.59E-04
0173	0.00E+00	4.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-10	0.00E+00	0.00E+00	0.00E+00	6.80E-04	0.00E+00	7.99E-08	6.80E-04
0174	0.00E+00	5.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-10	0.00E+00	0.00E+00	0.00E+00	7.88E-04	0.00E+00	9.27E-08	7.88E-04
0175	0.00E+00	5.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-10	0.00E+00	0.00E+00	0.00E+00	8.94E-04	0.00E+00	1.05E-07	8.94E-04
0176	0.00E+00	6.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-10	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	1.21E-07	1.03E-03
0177	0.00E+00	8.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	1.50E-07	1.28E-03
0178	0.00E+00	1.23E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-09	0.00E+00	0.00E+00	0.00E+00	1.89E-03	0.00E+00	2.22E-07	1.89E-03
0179	0.00E+00	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	2.10E-03	0.00E+00	2.46E-07	2.10E-03
0180	0.00E+00	4.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-10	0.00E+00	0.00E+00	0.00E+00	6.92E-04	0.00E+00	8.13E-08	6.92E-04
0181	0.00E+00	2.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-10	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	4.70E-08	4.00E-04
0182	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	3.25E-08	2.77E-04
0183	0.00E+00	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-10	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	2.44E-08	2.08E-04
0184	0.00E+00	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-10	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	1.92E-08	1.64E-04
0185	0.00E+00	8.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-10	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	1.57E-08	1.33E-04
0186	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-10	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	3.49E-08	2.97E-04
0187	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	4.29E-08	3.65E-04
0188	0.00E+00	3.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-10	0.00E+00	0.00E+00	0.00E+00	4.60E-04	0.00E+00	5.41E-08	4.60E-04
0189	0.00E+00	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-10	0.00E+00	0.00E+00	0.00E+00	5.91E-04	0.00E+00	6.95E-08	5.91E-04
0190	0.00E+00	4.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-10	0.00E+00	0.00E+00	0.00E+00	7.56E-04	0.00E+00	8.88E-08	7.56E-04
0191	0.00E+00	6.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-10	0.00E+00	0.00E+00	0.00E+00	9.28E-04	0.00E+00	1.09E-07	9.28E-04
0192	0.00E+00	6.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-10	0.00E+00	0.00E+00	0.00E+00	1.06E-03	0.00E+00	1.25E-07	1.06E-03
0193	0.00E+00	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-09	0.00E+00	0.00E+00	0.00E+00	1.21E-03	0.00E+00	1.42E-07	1.21E-03
0194	0.00E+00	9.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	1.71E-07	1.46E-03
0195	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	2.45E-07	2.09E-03
0196	0.00E+00	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-09	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	3.05E-07	2.59E-03
0197	0.00E+00	6.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-10	0.00E+00	0.00E+00	0.00E+00	9.38E-04	0.00E+00	1.10E-07	9.38E-04
0198	0.00E+00	3.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-10	0.00E+00	0.00E+00	0.00E+00	5.07E-04	0.00E+00	5.96E-08	5.07E-04
0199	0.00E+00	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-10	0.00E+00	0.00E+00	0.00E+00	3.26E-04	0.00E+00	3.84E-08	3.26E-04
0200	0.00E+00	1.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-10	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	2.74E-08	2.33E-04
0201	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-10	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	2.08E-08	1.77E-04
0202	0.00E+00	9.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-10	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	1.65E-08	1.41E-04
0203	0.00E+00	1.88E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-10	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	3.39E-08	2.89E-04
0204	0.00E+00	2.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-10	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	4.20E-08	3.57E-04
0205	0.00E+00	2.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-10	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	5.34E-08	4.54E-04
0206	0.00E+00	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-10	0.00E+00	0.00E+00	0.00E+00	6.00E-04	0.00E+00	7.05E-08	6.00E-04
0207	0.00E+00	5.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-10	0.00E+00	0.00E+00	0.00E+00	8.24E-04	0.00E+00	9.69E-08	8.24E-04
0208	0.00E+00	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	1.31E-07	1.11E-03
0209	0.00E+00	8.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-09	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	1.59E-07	1.35E-03
0210	0.00E+00	9.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-09	0.00E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	1.79E-07	1.53E-03
0211	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-09	0.00E+00	0.00E+00	0.00E+00	1.75E-03	0.00E+00	2.05E-07	1.75E-03
0212	0.00E+00	1.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-09	0.00E+00	0.00E+00	0.00E+00	2.29E-03	0.00E+00	2.70E-07	2.29E-03
0213	0.00E+00	1.86E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-09	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	3.35E-07	2.85E-03
0214	0.00E+00	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	1.32E-07	1.12E-03
0215	0.00E+00	3.99E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-10	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	7.18E-08	6.11E-04
0216	0.00E+00	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-10	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	4.49E-08	3.82E-04
0217	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	3.09E-08	2.63E-04
0218	0.00E+00	1.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-10	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	2.28E-08	1.94E-04
0219	0.00E+00	9.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-10	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	1.77E-08	1.50E-04
0220	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-10	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	3.36E-08	2.85E-04
0221	0.00E+00	2.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-10	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	4.09E-08	3.48E-04
0222	0.00E+00	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-10	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	5.21E-08	4.43E-04
0223	0.00E+00	3.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-10	0.00E+00	0.00E+00	0.00E+00	5.97E-04	0.00E+00	7.01E-08	5.97E-04
0224	0.00E+00	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-10	0.00E+00	0.00E+00	0.00E+00	8.54E-04	0.00E+00	1.00E-07	8.54E-04
0225	0.00E+00	8.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	1.58E-07	1.34E-03
0226	0.00E+00	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	2.42E-07	2.06E-03
0227	0.00E+00	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-09	0.00E+00	0.00E+00	0.00E+00	2.42E-03	0.00E+00	2.84E-07	2.42E-03
0228	0.00E+00	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-09	0.00E+00	0.00E+00	0.00E+00	2.68E-03	0.00E+00	3.15E-07	2.68E-03
0229	0.00E+00	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-09	0.00E+00	0.00E+00	0.00E+00	3.09E-03	0.00E+00	3.63E-07	3.09E-03
0230	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-09	0.00E+00	0.00E+00	0.00E+00	2.95E-03	0.00E+00	3.47E-07	2.95E-03
0231	0.00E+00	8.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	1.45E-07	1.23E-03
0232	0.00E+00	4.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-10	0.00E+00	0.00E+00	0.00E+00	6.91E-04	0.00E+00	8.12E-08	6.91E-04
0233	0.00E+00	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-10	0.00E+00	0.00E+00	0.00E+00	4.35E-04	0.00E+00	5.11E-08	4.35E-04
0234	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-10	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	3.47E-08	2.95E-04
0235	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-10	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	2.51E-08	2.14E-04
0236	0.00E+00	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	1.91E-08	1.63E-04
0237	0.00E+00	1.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-10	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	3.34E-08	2.84E-04
0238	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	4.03E-08	3.43E-04

0239	0.00E+00	2.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-10	0.00E+00	0.00E+00	0.00E+00	4.32E-04	0.00E+00	5.08E-08	4.32E-04
0240	0.00E+00	3.80E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-10	0.00E+00	0.00E+00	0.00E+00	5.83E-04	0.00E+00	6.85E-08	5.83E-04
0241	0.00E+00	5.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-10	0.00E+00	0.00E+00	0.00E+00	8.64E-04	0.00E+00	1.02E-07	8.64E-04
0242	0.00E+00	9.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-09	0.00E+00	0.00E+00	0.00E+00	1.51E-03	0.00E+00	1.77E-07	1.51E-03
0243	0.00E+00	1.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-09	0.00E+00	0.00E+00	0.00E+00	2.99E-03	0.00E+00	3.52E-07	2.99E-03
0244	0.00E+00	8.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-09	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	1.51E-07	1.28E-03
0245	0.00E+00	4.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-10	0.00E+00	0.00E+00	0.00E+00	7.42E-04	0.00E+00	8.72E-08	7.42E-04
0246	0.00E+00	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-10	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	5.59E-08	4.76E-04
0247	0.00E+00	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-10	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	3.82E-08	3.25E-04
0248	0.00E+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-10	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	2.76E-08	2.35E-04
0249	0.00E+00	1.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-10	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	2.09E-08	1.78E-04
0250	0.00E+00	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-10	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	3.30E-08	2.81E-04
0251	0.00E+00	2.19E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.95E-08	3.36E-04
0252	0.00E+00	2.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-10	0.00E+00	0.00E+00	0.00E+00	4.18E-04	0.00E+00	4.92E-08	4.18E-04
0253	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-10	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	6.47E-08	5.51E-04
0254	0.00E+00	5.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-10	0.00E+00	0.00E+00	0.00E+00	8.07E-04	0.00E+00	9.49E-08	8.07E-04
0255	0.00E+00	9.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	1.71E-07	1.46E-03
0256	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-09	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	3.48E-07	2.96E-03
0257	0.00E+00	8.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-09	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	1.52E-07	1.30E-03
0258	0.00E+00	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-10	0.00E+00	0.00E+00	0.00E+00	7.67E-04	0.00E+00	9.02E-08	7.67E-04
0259	0.00E+00	3.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-10	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	5.92E-08	5.04E-04
0260	0.00E+00	2.29E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-10	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	4.13E-08	3.51E-04
0261	0.00E+00	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-10	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	3.02E-08	2.57E-04
0262	0.00E+00	1.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-10	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	2.30E-08	1.95E-04
0263	0.00E+00	1.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-10	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	3.20E-08	2.72E-04
0264	0.00E+00	2.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-10	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	3.79E-08	3.22E-04
0265	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-10	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	4.60E-08	3.91E-04
0266	0.00E+00	3.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-10	0.00E+00	0.00E+00	0.00E+00	5.02E-04	0.00E+00	5.90E-08	5.02E-04
0267	0.00E+00	4.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-10	0.00E+00	0.00E+00	0.00E+00	7.00E-04	0.00E+00	8.23E-08	7.00E-04
0268	0.00E+00	8.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	1.23E-03	0.00E+00	1.45E-07	1.23E-03
0269	0.00E+00	1.87E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-09	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	3.37E-07	2.87E-03
0270	0.00E+00	8.28E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-09	0.00E+00	0.00E+00	0.00E+00	1.27E-03	0.00E+00	1.49E-07	1.27E-03
0271	0.00E+00	5.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-10	0.00E+00	0.00E+00	0.00E+00	7.71E-04	0.00E+00	9.06E-08	7.71E-04
0272	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-10	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	6.13E-08	5.21E-04
0273	0.00E+00	2.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-10	0.00E+00	0.00E+00	0.00E+00	3.73E-04	0.00E+00	4.38E-08	3.73E-04
0274	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-10	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	3.26E-08	2.77E-04
0275	0.00E+00	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-10	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	2.49E-08	2.12E-04
0276	0.00E+00	1.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-10	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	2.97E-08	2.53E-04
0277	0.00E+00	1.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-10	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	3.43E-08	2.92E-04
0278	0.00E+00	2.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-10	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	4.08E-08	3.47E-04
0279	0.00E+00	2.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-10	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	5.03E-08	4.28E-04
0280	0.00E+00	3.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-10	0.00E+00	0.00E+00	0.00E+00	5.68E-04	0.00E+00	6.68E-08	5.68E-04
0281	0.00E+00	5.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-10	0.00E+00	0.00E+00	0.00E+00	9.02E-04	0.00E+00	1.06E-07	9.02E-04
0282	0.00E+00	1.69E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-09	0.00E+00	0.00E+00	0.00E+00	2.58E-03	0.00E+00	3.03E-07	2.58E-03
0283	0.00E+00	7.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-09	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	1.41E-07	1.20E-03
0284	0.00E+00	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-10	0.00E+00	0.00E+00	0.00E+00	7.55E-04	0.00E+00	8.88E-08	7.55E-04
0285	0.00E+00	3.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-10	0.00E+00	0.00E+00	0.00E+00	5.26E-04	0.00E+00	6.18E-08	5.26E-04
0286	0.00E+00	2.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-10	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	4.53E-08	3.85E-04
0287	0.00E+00	1.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-10	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	3.43E-08	2.91E-04
0288	0.00E+00	1.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-10	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	2.66E-08	2.26E-04
0289	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-10	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	2.61E-08	2.22E-04
0290	0.00E+00	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-10	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	2.94E-08	2.50E-04
0291	0.00E+00	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	3.37E-08	2.87E-04
0292	0.00E+00	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-04	0.00E+00	3.98E-08	3.39E-04
0293	0.00E+00	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-10	0.00E+00	0.00E+00	0.00E+00	4.22E-04	0.00E+00	4.96E-08	4.22E-04
0294	0.00E+00	3.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-10	0.00E+00	0.00E+00	0.00E+00	5.70E-04	0.00E+00	6.70E-08	5.70E-04
0295	0.00E+00	5.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-10	0.00E+00	0.00E+00	0.00E+00	9.15E-04	0.00E+00	1.08E-07	9.15E-04
0296	0.00E+00	9.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-09	0.00E+00	0.00E+00	0.00E+00	1.42E-03	0.00E+00	1.67E-07	1.42E-03
0297	0.00E+00	1.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-09	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	2.07E-07	1.76E-03
0298	0.00E+00	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-09	0.00E+00	0.00E+00	0.00E+00	1.95E-03	0.00E+00	2.29E-07	1.95E-03
0299	0.00E+00	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-09	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	2.42E-07	2.06E-03
0300	0.00E+00	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-09	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	2.50E-07	2.13E-03
0301	0.00E+00	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-09	0.00E+00	0.00E+00	0.00E+00	2.11E-03	0.00E+00	2.48E-07	2.11E-03
0302	0.00E+00	1.30E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-09	0.00E+00	0.00E+00	0.00E+00	2.00E-03	0.00E+00	2.35E-07	2.00E-03
0303	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	1.58E-03	0.00E+00	1.85E-07	1.58E-03
0304	0.00E+00	6.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-10	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	1.22E-07	1.03E-03
0305	0.00E+00	4.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-10	0.00E+00	0.00E+00	0.00E+00	7.11E-04	0.00E+00	8.35E-08	7.11E-04
0306	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-10	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	6.06E-08	5.16E-04
0307	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-10	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	4.57E-08	3.89E-04
0308	0.00E+00	1.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-10	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	3.54E-08	3.01E-04
0309	0.00E+00	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-10	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	2.79E-08	2.38E-04
0310	0.00E+00	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-10	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	2.22E-08	1.89E-04
0311	0.00E+00	1.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-10	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	2.43E-08	2.07E-04
0312	0.00E+00	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-10	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	2.70E-08	2.30E-04
0313	0.00E+00	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-10	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	3.09E-08	2.63E-04

0314	0.00E+00	2.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-10	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	3.70E-08	3.14E-04
0315	0.00E+00	2.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-10	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	4.65E-08	3.96E-04
0316	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-10	0.00E+00	0.00E+00	0.00E+00	5.21E-04	0.00E+00	6.13E-08	5.21E-04
0317	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-10	0.00E+00	0.00E+00	0.00E+00	7.05E-04	0.00E+00	8.29E-08	7.05E-04
0318	0.00E+00	5.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-10	0.00E+00	0.00E+00	0.00E+00	8.83E-04	0.00E+00	1.04E-07	8.83E-04
0319	0.00E+00	6.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-10	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.20E-07	1.02E-03
0320	0.00E+00	7.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-09	0.00E+00	0.00E+00	0.00E+00	1.11E-03	0.00E+00	1.31E-07	1.11E-03
0321	0.00E+00	7.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	1.37E-07	1.16E-03
0322	0.00E+00	7.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-09	0.00E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	1.37E-07	1.17E-03
0323	0.00E+00	7.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-09	0.00E+00	0.00E+00	0.00E+00	1.12E-03	0.00E+00	1.31E-07	1.12E-03
0324	0.00E+00	6.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-10	0.00E+00	0.00E+00	0.00E+00	9.98E-04	0.00E+00	1.17E-07	9.98E-04
0325	0.00E+00	5.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-10	0.00E+00	0.00E+00	0.00E+00	8.12E-04	0.00E+00	9.55E-08	8.12E-04
0326	0.00E+00	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-10	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	7.41E-08	6.30E-04
0327	0.00E+00	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-10	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	5.73E-08	4.87E-04
0328	0.00E+00	2.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-10	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	4.49E-08	3.82E-04
0329	0.00E+00	1.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-10	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	3.57E-08	3.03E-04
0330	0.00E+00	1.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-10	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	2.87E-08	2.45E-04
0331	0.00E+00	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-10	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	1.84E-08	1.57E-04
0332	0.00E+00	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-10	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	1.99E-08	1.69E-04
0333	0.00E+00	1.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-10	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	2.18E-08	1.85E-04
0334	0.00E+00	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-10	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	2.48E-08	2.11E-04
0335	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-10	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	2.91E-08	2.48E-04
0336	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-10	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	3.50E-08	2.98E-04
0337	0.00E+00	2.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-10	0.00E+00	0.00E+00	0.00E+00	3.65E-04	0.00E+00	4.30E-08	3.65E-04
0338	0.00E+00	2.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-10	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	5.33E-08	4.54E-04
0339	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-10	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	6.48E-08	5.51E-04
0340	0.00E+00	4.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-10	0.00E+00	0.00E+00	0.00E+00	6.40E-04	0.00E+00	7.52E-08	6.40E-04
0341	0.00E+00	4.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-10	0.00E+00	0.00E+00	0.00E+00	7.08E-04	0.00E+00	8.33E-08	7.08E-04
0342	0.00E+00	4.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-10	0.00E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	8.84E-08	7.52E-04
0343	0.00E+00	5.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-10	0.00E+00	0.00E+00	0.00E+00	7.68E-04	0.00E+00	9.02E-08	7.68E-04
0344	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-10	0.00E+00	0.00E+00	0.00E+00	7.54E-04	0.00E+00	8.86E-08	7.54E-04
0345	0.00E+00	4.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-10	0.00E+00	0.00E+00	0.00E+00	7.07E-04	0.00E+00	8.32E-08	7.07E-04
0346	0.00E+00	4.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-10	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	7.39E-08	6.29E-04
0347	0.00E+00	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-10	0.00E+00	0.00E+00	0.00E+00	5.35E-04	0.00E+00	6.29E-08	5.35E-04
0348	0.00E+00	2.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-10	0.00E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	5.21E-08	4.43E-04
0349	0.00E+00	2.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-10	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	4.27E-08	3.63E-04
0350	0.00E+00	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-10	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	3.51E-08	2.98E-04
0351	0.00E+00	1.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-10	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	2.89E-08	2.46E-04
0352	0.00E+00	8.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-10	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	1.53E-08	1.31E-04
0353	0.00E+00	9.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-10	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	1.65E-08	1.40E-04
0354	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	1.82E-08	1.55E-04
0355	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-10	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	2.08E-08	1.77E-04
0356	0.00E+00	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-10	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	2.41E-08	2.05E-04
0357	0.00E+00	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-10	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	2.81E-08	2.39E-04
0358	0.00E+00	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-10	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	3.30E-08	2.80E-04
0359	0.00E+00	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-10	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	3.91E-08	3.33E-04
0360	0.00E+00	2.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-10	0.00E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	4.57E-08	3.89E-04
0361	0.00E+00	2.91E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-10	0.00E+00	0.00E+00	0.00E+00	4.45E-04	0.00E+00	5.23E-08	4.45E-04
0362	0.00E+00	3.22E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-10	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	5.79E-08	4.93E-04
0363	0.00E+00	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-10	0.00E+00	0.00E+00	0.00E+00	5.27E-04	0.00E+00	6.20E-08	5.27E-04
0364	0.00E+00	3.57E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.02E-10	0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	6.43E-08	5.47E-04
0365	0.00E+00	3.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-10	0.00E+00	0.00E+00	0.00E+00	5.51E-04	0.00E+00	6.47E-08	5.51E-04
0366	0.00E+00	3.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-10	0.00E+00	0.00E+00	0.00E+00	5.33E-04	0.00E+00	6.27E-08	5.33E-04
0367	0.00E+00	3.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-10	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	5.84E-08	4.97E-04
0368	0.00E+00	2.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-10	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	5.27E-08	4.48E-04
0369	0.00E+00	2.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-10	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	4.61E-08	3.93E-04
0370	0.00E+00	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-10	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	3.96E-08	3.37E-04
0371	0.00E+00	1.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-10	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	3.37E-08	2.87E-04
0372	0.00E+00	1.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-10	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	2.85E-08	2.43E-04
0373	0.00E+00	7.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-10	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	1.31E-08	1.12E-04
0374	0.00E+00	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-10	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	1.43E-08	1.22E-04
0375	0.00E+00	8.87E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-10	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	1.60E-08	1.36E-04
0376	0.00E+00	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-10	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	1.82E-08	1.55E-04
0377	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-10	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	2.07E-08	1.76E-04
0378	0.00E+00	1.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-10	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	2.35E-08	2.00E-04
0379	0.00E+00	1.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-10	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	2.69E-08	2.29E-04
0380	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-10	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	3.08E-08	2.62E-04
0381	0.00E+00	1.94E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-10	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	3.49E-08	2.97E-04
0382	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-10	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	3.90E-08	3.31E-04
0383	0.00E+00	2.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-10	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	4.28E-08	3.64E-04
0384	0.00E+00	2.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-10	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	4.59E-08	3.91E-04
0385	0.00E+00	2.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-10	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	4.83E-08	4.11E-04
0386	0.00E+00	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-10	0.00E+00	0.00E+00	0.00E+00	4.21E-04	0.00E+00	4.95E-08	4.21E-04
0387	0.00E+00	2.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-10	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	4.90E-08	4.17E-04
0388	0.00E+00	2.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-10	0.00E+00	0.00E+00	0.00E+00	4.01E-04	0.00E+00	4.71E-08	4.01E-04

0389	0.00E+00	2.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-10	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	4.41E-08	3.75E-04
0390	0.00E+00	2.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-10	0.00E+00	0.00E+00	0.00E+00	3.43E-04	0.00E+00	4.03E-08	3.43E-04
0391	0.00E+00	2.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-10	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	3.60E-08	3.07E-04
0392	0.00E+00	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-10	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	3.17E-08	2.70E-04
0393	0.00E+00	1.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-10	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	2.76E-08	2.35E-04
0394	0.00E+00	2.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-09	0.00E+00	0.00E+00	0.00E+00	4.02E-03	0.00E+00	4.72E-07	4.02E-03
0395	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-09	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	1.85E-07	1.57E-03
0396	0.00E+00	1.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-09	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	2.62E-07	2.23E-03
0397	0.00E+00	3.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-09	0.00E+00	0.00E+00	0.00E+00	4.92E-03	0.00E+00	5.78E-07	4.92E-03
0398	0.00E+00	1.58E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-09	0.00E+00	0.00E+00	0.00E+00	2.41E-03	0.00E+00	2.84E-07	2.41E-03
0399	0.00E+00	8.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-09	0.00E+00	0.00E+00	0.00E+00	1.37E-03	0.00E+00	1.61E-07	1.37E-03
0400	0.00E+00	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-09	0.00E+00	0.00E+00	0.00E+00	4.16E-03	0.00E+00	4.89E-07	4.16E-03