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Certificate of Analysis

Client Report For: MyExposome
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USA
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Project Name: MyExposome PO 225
Project Number: F20-08
Report Date: July 13 2020
Analysis Approval Date:
Sample Received Date: 03/13/20

7-16-20
QC Review **Date**

7/25/2020
FSES Director Approval: Kim A. Anderson **Date**

Methodology:

SOP 418.00:

SOP 430.00 VOCs and SVOCs:

Unit Conversions:
ppb = parts per billion
ppm = parts per million
ppt = parts per trillion
ng/g = ppb
ng/L = ppt
ng/mL = ppb
ng/µL = ppm
ng/g(Wristband) = ppb
pg/µL = ppb
µg/mL = ppm

Abbreviations:
J flag: Indicates lower precision in quantitation due to values near limits of detection or matrix effects.
B flag: The sample was background corrected.
U* flag: Indicates confirmed presence of the chemical but inability to quantify due to matrix interference.
Y flag: Indicates a chemical is present but quantitation is not possible.
< 123.45 U: Detection limit, indicates value was below limit of detection.

COA Notes:
PAHs
Continuing calibration verification (CV) analysis was performed at the start and end of every analytical batch; or after a maximum of 15 samples. A total of four CVs were analyzed as part of the complete project; in all cases, CVs met FSES data quality objectives (DQOs) with an average of 83% of the target analytes being with 30% of the known value.

Perylene-D12, the method internal standard, had less than 48% variation across the entire project.

Instrument blanks (IBs) were analyzed after each CV and after a maximum of six samples. A total of seven IBs were analyzed, in all cases all target analytes were below the method limits of quantitation, meeting FSES DQO's.
To demonstrate instrument accuracy one over-spike analysis was performed where the sample was spiked with target compounds post extraction. Average percent recovery was 107%, meeting FSES DQO's.
Lab processing and reagent blanks were analyzed. The lab processing blank was used for background subtraction when appropriate.

VOPAH
Continuing calibration verification (CV) analysis was performed at the start and end of every analytical batch; or after a maximum of 15 samples. A total of four CVs were analyzed as part of the complete project; in all cases, CVs met FSES data quality objectives (DQOs) with an average of 84% of the target analytes being with 30% of the known value.

1,4 Dichlorobenzene, a method internal standard, had less than 10% variation across the entire project.
9-Fluorenone, a method internal standard, had less than 33% variation across the entire project.
Phenanthrene D10, a method internal standard, had less than 22% variation across the entire project
Perylene D-12, a method internal standard, had less than 72% variation across the entire project.

Instrument blanks (IBs) were analyzed after each CV and after a maximum of six samples. A total of 13 IBs were analyzed, in all cases all target analytes were below the method limits of quantitation, meeting FSES DQO's.
To demonstrate instrument accuracy one over-spike analysis was performed where the sample was spiked with target compounds post extraction. Average percent recovery was 132%.
To demonstrate precision, a duplicate analysis was performed on one sample. The average relative percent deviation was 9.5%. Lab processing and reagent blanks were analyzed. The lab processing blank was used for background subtraction when appropriate.

Client Sample Name:	DCA_1103	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200555	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.57 U	0.19 U	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	28.80 B	3.46 B	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	13.00 B	1.57 B	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	46.20	7.22	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	77.10 B	12.0 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	38.30 B	5.45 B	fluoranthene	229.00	46.2
1-methylphenanthrene	83.60	16.1	fluorene	91.80	15.3
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	0.19 U	0.03 U	n-Decane	1.34 U	0.19 U
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	307.00 B	52.4 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	16000.00	4520
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	13600.00 B	3270 B
2-methylnaphthalene	75.00 B	10.6 B	n-Hexadecane	10900.00 B	2470 B
2-methylphenanthrene	122.00	23.4	n-Nonane	1160.00 B	149 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	20400.00	5180
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	11400.00 B	2410 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.55 JB	0.19 JB
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	6700.00 B	1330 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1.24 U	0.19 U
9-Fluorenone	0.15 U	0.03 U	naphthalene	0.19 U	0.02 U
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	29.80	3.16
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	180.00 B	24.1 B
anthracene	1.04 U	0.19 U	phenanthrene	783.00	140
benz[a]anthracene	1.40 U	0.32 U	pyrene	196.00	39.6
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	139.00	14.5
benzo[a]pyrene	0.92 U	0.23 U	TCEP	567.00 J	162 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	1030.00 B	443 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	7.28 U	1.84 U	TPP	5810.00 J	1900 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	3.18 J	0.85 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	3860.00 J	1680 J
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	78.00	8.28

Client Sample Name:	KDA_1118	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200556	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	13.90 B	1.67 B	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	53.10 B	6.38 B	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	7.96 B	0.96 B	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	90.40 B	14.1 B	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	51.20	7.99	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	58.30 B	9.11 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	58.10 B	8.26 B	fluoranthene	552.00	112
1-methylphenanthrene	1.05 U	0.20 U	fluorene	111.00	18.4
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	51.20	8.00	n-Decane	432.00 B	61.4 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	356.00 B	60.6 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	118000.00	33200
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	84100.00 B	20200 B
2-methylnaphthalene	86.50 B	12.3 B	n-Hexadecane	30200.00 B	6840 B
2-methylphenanthrene	0.15 U	0.03 U	n-Nonane	2130.00 B	273 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	160000.00 J	40700 J
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	17200.00 B	3650 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	8020.00 B	1590 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1560.00 B	244 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	14.10	1.81
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	58.60	8.61
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	59.60 B	8 B
anthracene	1.04 U	0.19 U	phenanthrene	637.00	113
benz[a]anthracene	1.40 U	0.32 U	pyrene	448.00	90.6
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	167.00	17.4
benzo[a]pyrene	0.92 U	0.23 U	TCEP	566.00 J	162 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	8.12 U	3.50 U
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	7.28 U	1.84 U	TPP	810.00 J	264 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	687.00 J	183 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	KPU_0816	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200557	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	4.86 JB	0.58 JB	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	37.60 B	4.52 B	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	12.80 B	1.54 B	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	60.00 B	9.37 B	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	0.20 U	0.03 U	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	41.50 B	6.48 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	40.40 B	5.74 B	fluoranthene	733.00	148
1-methylphenanthrene	1.05 U	0.20 U	fluorene	206.00	34.2
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	40.50	6.32	n-Decane	446.00 B	63.5 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	337.00 B	57.4 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	67400.00	19000
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	24800.00 B	5960 B
2-methylnaphthalene	69.00 B	9.81 B	n-Hexadecane	19700.00 B	4450 B
2-methylphenanthrene	207.00	39.8	n-Nonane	3640.00 B	467 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	27000.00	6880
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	11400.00 B	2420 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	6620.00 B	1310 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1080.00 B	168 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	84.60	10.8
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	5440.00	799
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	55.80 B	7.50 B
anthracene	1.04 U	0.19 U	phenanthrene	1160.00	207
benz[a]anthracene	1.40 U	0.32 U	pyrene	490.00	99.1
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	133.00	13.9
benzo[a]pyrene	236.00	59.6	TCEP	323.00 J	92.2 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	8.12 U	3.50 U
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	172.00	43.3	TPP	3890.00 J	1270 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	3.18 U	0.85 U
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	DDA_0823	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200558	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.77 JB	0.21 JB	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	49.30	8.95	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	35.40 B	4.25 B	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	12.20 B	1.46 B	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	38.40	6.00	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	22.80 B	3.56 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	20.00	2.12
1-methylnaphthalene	40.90 B	5.82 B	fluoranthene	297.00	60.0
1-methylphenanthrene	1.05 U	0.20 U	fluorene	105.00	17.5
1-methylpyrene	151.00	32.6	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	0.19 U	0.03 U	n-Decane	921.00 B	131 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	384.00 B	65.4 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	40000.00	11300
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	18100.00 B	4360 B
2-methylnaphthalene	70.50 B	10.0 B	n-Hexadecane	8920.00 B	2020 B
2-methylphenanthrene	381.00	73.3	n-Nonane	13000.00 B	1660 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	17500.00	4460
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	8710.00 B	1850 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	5160.00 B	1020 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1200.00 B	187 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	0.19 U	0.02 U
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	83.40 B	11.2 B
anthracene	1.04 U	0.19 U	phenanthrene	592.00	105
benz[a]anthracene	1.40 U	0.32 U	pyrene	331.00	66.9
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	163.00	17.0
benzo[a]pyrene	0.92 U	0.23 U	TCEP	204.00 J	58.2 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	2160.00 B	932 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	7.28 U	1.84 U	TPP	5540.00 J	1810 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	683.00 J	182 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	27.40	3.09	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	35.20	3.74

Client Sample Name:	DDA_0117	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200559	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	0.96 U	0.17 U	chrysene	1.82 U	0.42 U
1,2,3-Trimethylbenzene	6.76 JB	0.81 JB	coronene	11.60 U	3.49 U
1,2,4-Trichlorobenzene	0.95 U	0.17 U	Cumene	1.39 U	0.17 U
1,2,4-Trimethylbenzene	31.80 B	3.82 B	cyclopenta[cd]pyrene	0.94 U	0.21 U
1,2-dimethylnaphthalene	0.17 U	0.03 U	dibenzo[a,e]fluoranthene	16.00 U	4.83 U
1,3,5-Trimethylbenzene	1.37 U	0.16 U	dibenzo[a,e]pyrene	14.10 U	4.26 U
1,3-Dichlorobenzene	1.10 U	0.16 U	dibenzo[a,h]anthracene	59.80 U	16.6 U
1,3-dimethylnaphthalene	63.40 B	9.91 B	dibenzo[a,h]pyrene	711.00 U	215 U
1,4-dimethylnaphthalene	21.20	3.32	dibenzo[a,i]pyrene	711.00 U	215 U
1,5-dimethylnaphthalene	0.26 U	0.04 U	dibenzo[a,l]pyrene	11.20 U	3.39 U
1,6-dimethylnaphthalene	40.80 B	6.38 B	dibenzothiophene	0.56 U	0.10 U
1,8-dimethylnaphthalene	0.17 U	0.03 U	Ethylbenzene	1.73 U	0.18 U
1-methylnaphthalene	52.50 B	7.46 B	fluoranthene	288.00	58.3
1-methylphenanthrene	0.94 U	0.18 U	fluorene	79.10	13.2
1-methylpyrene	72.10	15.6	indeno[1,2,3-cd]pyrene	5.36 U	1.48 U
2,3-dimethylanthracene	8.16 U	1.68 U	n-Butylbenzene	1.28 U	0.17 U
2,6-dimethylnaphthalene	32.30	5.04	n-Decane	276.00 B	39.2 B
2-Chlorotoluene	1.32 U	0.17 U	n-Dodecane	285.00 B	48.5 B
2-Ethylanthraquinone	5.36 U	1.27 U	n-Eicosane	44800.00 J	12600 J
2-methylanthracene	5.40 U	1.04 U	n-Heptadecane	33200.00 B	7990 B
2-methylnaphthalene	90.10 B	12.8 B	n-Hexadecane	20600.00 B	4680 B
2-methylphenanthrene	176.00	33.9	n-Nonane	2010.00 B	257 B
3,6-dimethylphenanthrene	0.70 U	0.14 U	n-Octadecane	36700.00	9350
4-Chlorotoluene	1.28 U	0.16 U	n-Pentadecane	13800.00 B	2930 B
5-methylchrysene	1.80 U	0.44 U	n-Propylbenzene	2.78 JB	0.33 JB
6-methylchrysene	1.29 U	0.31 U	n-Tetradecane	11400.00 B	2270 B
9,10-Anthraquinone	8.84 U	1.84 U	n-Undecane	858.00 B	134 B
9-Fluorenone	0.13 U	0.02 U	naphthalene	21.50	2.75
9-methylanthracene	8.74 U	1.68 U	o-Dichlorobenzene	1.12 U	0.16 U
acenaphthene	0.20 U	0.03 U	o-Xylene	1.82 U	0.19 U
acenaphthylene	0.20 U	0.03 U	p-Dichlorobenzene	61.50	9.04
anthanthrene	51.90 U	14.3 U	p-Isopropyltoluene	23.70 B	3.18 B
anthracene	0.94 U	0.17 U	phenanthrene	648.00	115
benz[a]anthracene	1.26 U	0.29 U	pyrene	445.00	90.1
Benzanthrone	4.47 U	1.03 U	retene	0.07 U	0.02 U
benzo[a]chrysene	43.20 U	12.0 U	sec-Butylbenzene	1.25 U	0.17 U
benzo[a]fluorene	0.19 U	0.04 U	Styrene	78.80	8.21
benzo[a]pyrene	0.82 U	0.21 U	TCEP	270.00 J	77.2 J

benzo[b+c]fluorene	error	0.03 U	TDCPP	1150.00 B	496 B
benzo[b+k]fluoranthene	error	3.35 U	tert-Butylbenzene	1.28 U	0.17 U
benzo[e]pyrene	6.55 U	1.65 U	TPP	3060.00 J	998 J
benzo[ghi]perylene	0.67 U	0.19 U	Tributyl phosphate	1140.00 J	303 J
benzo[j]fluoranthene	7.29 U	1.84 U	tricresyl phosphate	22.00 U	8.10 U
Benzofluorenone	3.70 U	0.85 U	triphenylene	1.29 U	0.29 U
Bromobenzene	0.99 U	0.16 U	Tris(2-ethylhexyl) phosphate	1.63 U	0.71 U
Chlorobenzene	1.66 U	0.19 U	Xanthone	739.00	145
Chromone	12.60 U	1.84 U	Xylenes (m and p)	1.64 U	0.17 U

Client Sample Name:	KPU_0307	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200560	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	46.20 B	5.55 B	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	133.00 B	15.9 B	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	28.30 B	3.40 B	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	74.60 B	11.6 B	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	84.30	13.2	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	58.50 B	9.14 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	66.50 B	9.46 B	fluoranthene	240.00	48.6
1-methylphenanthrene	1.05 U	0.20 U	fluorene	55.40	9.20
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	52.20	8.16	n-Decane	837.00 B	119 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	1120.00 B	191 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	107000.00	30300
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	31300.00 B	7530 B
2-methylnaphthalene	113.00 B	16.0 B	n-Hexadecane	30500.00 B	6900 B
2-methylphenanthrene	126.00	24.2	n-Nonane	5440.00 B	698 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	35300.00	8980
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	21100.00 B	4480 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	13.00 B	1.57 B
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	17300.00 B	3440 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1360.00 B	213 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	45.20	5.80
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	742.00	109
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	58.20 B	7.81 B
anthracene	1.04 U	0.19 U	phenanthrene	499.00	89.0
benz[a]anthracene	1.40 U	0.32 U	pyrene	0.17 U	0.03 U
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	134.00	13.9
benzo[a]pyrene	68.40	17.2	TCEP	227.00 J	64.8 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	1650.00 B	711 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	240.00	60.6	TPP	3320.00 J	1080 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	3.18 U	0.85 U
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	ARO_0702	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200561	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	8.62 B	1.04 B	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	44.20 B	5.32 B	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	16.80 B	2.02 B	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	51.50	8.05	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	59.50 B	9.30 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	83.00 B	11.8 B	fluoranthene	256.00	51.8
1-methylphenanthrene	1.05 U	0.20 U	fluorene	78.40	13.0
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	0.19 U	0.03 U	n-Decane	536.00 B	76.3 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	1770.00 B	302 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	57000.00	16100
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	18100.00 B	4360 B
2-methylnaphthalene	117.00 B	16.6 B	n-Hexadecane	15700.00 B	3550 B
2-methylphenanthrene	0.15 U	0.03 U	n-Nonane	4650.00 B	597 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	47500.00	12100
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	11900.00 B	2530 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	7770.00 B	1540 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1940.00 B	303 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	2.30	0.30
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	89.30 B	12.0 B
anthracene	1.04 U	0.19 U	phenanthrene	514.00	91.7
benz[a]anthracene	1.40 U	0.32 U	pyrene	0.17 U	0.03 U
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	132.00	13.8
benzo[a]pyrene	0.92 U	0.23 U	TCEP	3230.00 J	921 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	2480.00 B	1070 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	7.28 U	1.84 U	TPP	5540.00 J	1810 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	311.00 J	82.9 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	14300.00 J	5270 J
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	ARO_1213	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200562	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.57 U	0.19 U	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	1.55 U	0.19 U	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	1.52 U	0.18 U	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	0.20 U	0.03 U	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	0.17 U	0.03 U	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	0.93 JB	0.13 JB	fluoranthene	120.00	24.3
1-methylphenanthrene	1.05 U	0.20 U	fluorene	37.90	6.30
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	0.19 U	0.03 U	n-Decane	120.00 B	17.0 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	139.00 B	23.6 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	46100.00	13000
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	17300.00 B	4150 B
2-methylnaphthalene	0.22 U	0.03 U	n-Hexadecane	12500.00 B	2830 B
2-methylphenanthrene	0.15 U	0.03 U	n-Nonane	1440.00 B	185 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	47300.00	12000
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	7000.00 B	1490 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	4650.00 B	922 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1.24 U	0.19 U
9-Fluorenone	0.15 U	0.03 U	naphthalene	0.19 U	0.02 U
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	36.80 B	4.94 B
anthracene	1.04 U	0.19 U	phenanthrene	273.00	48.6
benz[a]anthracene	1.40 U	0.32 U	pyrene	104.00	21.0
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	68.30	7.11
benzo[a]pyrene	864.00	218	TCEP	575.00 J	164 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	1270.00 B	547 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	2310.00	583	TPP	6740.00 J	2200 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	203.00 J	54.2 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	JRI_0607	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200563	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	0.96 U	0.17 U	chrysene	1.82 U	0.42 U
1,2,3-Trimethylbenzene	1.41 U	0.17 U	coronene	11.60 U	3.49 U
1,2,4-Trichlorobenzene	0.95 U	0.17 U	Cumene	1.39 U	0.17 U
1,2,4-Trimethylbenzene	1.39 U	0.17 U	cyclopenta[cd]pyrene	0.94 U	0.21 U
1,2-dimethylnaphthalene	0.17 U	0.03 U	dibenzo[a,e]fluoranthene	16.00 U	4.83 U
1,3,5-Trimethylbenzene	1.37 U	0.16 U	dibenzo[a,e]pyrene	14.10 U	4.26 U
1,3-Dichlorobenzene	1.10 U	0.16 U	dibenzo[a,h]anthracene	59.80 U	16.6 U
1,3-dimethylnaphthalene	74.80 B	11.7 B	dibenzo[a,h]pyrene	711.00 U	215 U
1,4-dimethylnaphthalene	47.60	7.43	dibenzo[a,i]pyrene	711.00 U	215 U
1,5-dimethylnaphthalene	0.26 U	0.04 U	dibenzo[a,l]pyrene	11.20 U	3.39 U
1,6-dimethylnaphthalene	40.40 B	6.31 B	dibenzothiophene	0.56 U	0.10 U
1,8-dimethylnaphthalene	0.17 U	0.03 U	Ethylbenzene	1.73 U	0.18 U
1-methylnaphthalene	45.70 B	6.50 B	fluoranthene	198.00	40.1
1-methylphenanthrene	0.94 U	0.18 U	fluorene	56.70	9.42
1-methylpyrene	71.40	15.4	indeno[1,2,3-cd]pyrene	5.36 U	1.48 U
2,3-dimethylanthracene	8.16 U	1.68 U	n-Butylbenzene	1.28 U	0.17 U
2,6-dimethylnaphthalene	43.60	6.81	n-Decane	808.00 B	115 B
2-Chlorotoluene	1.32 U	0.17 U	n-Dodecane	1090.00 B	186 B
2-Ethylanthraquinone	5.36 U	1.27 U	n-Eicosane	75100.00	21200
2-methylanthracene	5.40 U	1.04 U	n-Heptadecane	31200.00 B	7510 B
2-methylnaphthalene	52.80 B	7.51 B	n-Hexadecane	22300.00 B	5060 B
2-methylphenanthrene	194.00	37.3	n-Nonane	13800.00 B	1770 B
3,6-dimethylphenanthrene	0.70 U	0.14 U	n-Octadecane	36400.00	9280
4-Chlorotoluene	1.28 U	0.16 U	n-Pentadecane	11100.00 B	2350 B
5-methylchrysene	1.80 U	0.44 U	n-Propylbenzene	1.37 U	0.16 U
6-methylchrysene	1.29 U	0.31 U	n-Tetradecane	7890.00 B	1560 B
9,10-Anthraquinone	8.84 U	1.84 U	n-Undecane	1.12 U	0.17 U
9-Fluorenone	0.13 U	0.02 U	naphthalene	0.17 U	0.02 U
9-methylanthracene	8.74 U	1.68 U	o-Dichlorobenzene	1.12 U	0.16 U
acenaphthene	0.20 U	0.03 U	o-Xylene	1.82 U	0.19 U
acenaphthylene	0.20 U	0.03 U	p-Dichlorobenzene	50.00	7.34
anthanthrene	51.90 U	14.3 U	p-Isopropyltoluene	828.00 B	111 B
anthracene	0.94 U	0.17 U	phenanthrene	1180.00	211
benz[a]anthracene	1.26 U	0.29 U	pyrene	336.00	67.9
Benzanthrone	4.47 U	1.03 U	retene	0.07 U	0.02 U
benzo[a]chrysene	43.20 U	12.0 U	sec-Butylbenzene	1.25 U	0.17 U
benzo[a]fluorene	0.19 U	0.04 U	Styrene	101.00	10.6
benzo[a]pyrene	0.82 U	0.21 U	TCEP	739.00 J	211 J

benzo[b+c]fluorene	error	0.03 U	TDCPP	7.31 U	3.15 U
benzo[b+k]fluoranthene	error	3.35 U	tert-Butylbenzene	1.28 U	0.17 U
benzo[e]pyrene	197.00	49.7	TPP	3190.00 J	1040 J
benzo[ghi]perylene	0.67 U	0.19 U	Tributyl phosphate	452.00 J	120 J
benzo[j]fluoranthene	7.29 U	1.84 U	tricresyl phosphate	22.00 U	8.10 U
Benzofluorenone	3.70 U	0.85 U	triphenylene	1.29 U	0.29 U
Bromobenzene	0.99 U	0.16 U	Tris(2-ethylhexyl) phosphate	1.63 U	0.71 U
Chlorobenzene	1.66 U	0.19 U	Xanthone	0.51 U	0.10 U
Chromone	12.60 U	1.84 U	Xylenes (m and p)	1.64 U	0.17 U

Client Sample Name:	JRI_1115	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200564	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.57 U	0.19 U	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	1.55 U	0.19 U	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	1.52 U	0.18 U	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	0.20 U	0.03 U	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	37.60 B	5.87 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	0.20 U	0.03 U	fluoranthene	0.13 U	0.03 U
1-methylphenanthrene	1.05 U	0.20 U	fluorene	0.29 U	0.05 U
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	0.19 U	0.03 U	n-Decane	478.00 B	68.0 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	807.00 B	137 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	47700.00	13500
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	18000.00 B	4340 B
2-methylnaphthalene	57.80 B	8.21 B	n-Hexadecane	12600.00 B	2860 B
2-methylphenanthrene	0.15 U	0.03 U	n-Nonane	7950.00 B	1020 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	25300.00	6430
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	5810.00 B	1230 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	5250.00 B	1040 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1430.00 B	223 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	0.19 U	0.02 U
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	204.00 B	27.3 B
anthracene	1.04 U	0.19 U	phenanthrene	750.00	134
benz[a]anthracene	1.40 U	0.32 U	pyrene	0.17 U	0.03 U
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	88.90	9.26
benzo[a]pyrene	0.92 U	0.23 U	TCEP	822.00 J	235 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	8.12 U	3.50 U
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	7.28 U	1.84 U	TPP	801.00 J	261 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	463.00 J	123 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	KDA_0820	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200565	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	3.54 JB	0.42 JB	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	1.55 U	0.19 U	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	1.52 U	0.18 U	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	88.40 B	13.8 B	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	54.80	8.55	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	67.90 B	10.6 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	45.00 B	6.40 B	fluoranthene	261.00	52.9
1-methylphenanthrene	1.05 U	0.20 U	fluorene	76.60	12.7
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	42.20	6.59	n-Decane	310.00 B	44.1 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	456.00 B	77.6 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	123000.00 J	34800 J
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	27200.00 B	6540 B
2-methylnaphthalene	63.70 B	9.06 B	n-Hexadecane	20400.00 B	4610 B
2-methylphenanthrene	120.00	23.1	n-Nonane	3100.00 B	398 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	46800.00	11900
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	18600.00 B	3940 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	12500.00 B	2480 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1770.00 B	276 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	157.00	20.1
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	56.10	8.24
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	101.00 B	13.6 B
anthracene	1.04 U	0.19 U	phenanthrene	444.00	79.2
benz[a]anthracene	1.40 U	0.32 U	pyrene	181.00	36.6
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	126.00	13.1
benzo[a]pyrene	174.00	43.9	TCEP	322.00 J	92.0 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	3010.00 B	1300 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	349.00	88.0	TPP	9690.00 J	3160 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	272.00 J	72.5 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	DCA_0726	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200566	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.57 U	0.19 U	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	1.55 U	0.19 U	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	1.52 U	0.18 U	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	0.20 U	0.03 U	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	94.10 B	14.7 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	47.70 B	6.78 B	fluoranthene	0.13 U	0.03 U
1-methylphenanthrene	1.05 U	0.20 U	fluorene	79.20	13.2
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	0.19 U	0.03 U	n-Decane	327.00 B	46.5 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	412.00 B	70.2 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	0.79 J	0.22 J
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	39900.00 B	9600 B
2-methylnaphthalene	61.70 B	8.77 B	n-Hexadecane	14200.00 B	3200 B
2-methylphenanthrene	0.15 U	0.03 U	n-Nonane	5130.00 B	658 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	0.87 U	0.22 U
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	11000.00 B	2340 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	8280.00 B	1640 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1.24 U	0.19 U
9-Fluorenone	0.15 U	0.03 U	naphthalene	0.19 U	0.02 U
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	461.00 B	61.9 B
anthracene	1.04 U	0.19 U	phenanthrene	0.16 U	0.03 U
benz[a]anthracene	1.40 U	0.32 U	pyrene	0.17 U	0.03 U
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	105.00	10.9
benzo[a]pyrene	0.92 U	0.23 U	TCEP	12.10 U	3.46 U

benzo[b+c]fluorene	error	0.04 U	TDCPP	8.12 Y	3.50 Y
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	925.00	124
benzo[e]pyrene	7.28 U	1.84 U	TPP	3.32 Y	1.08 Y
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	3.18 U	0.85 U
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	YPA_0611	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200567	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.57 U	0.19 U	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	1.55 U	0.19 U	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	1.52 U	0.18 U	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	4.34 B	0.68 B	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	38.60	6.03	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	165.00	25.7	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	33.30 B	5.21 B	dibenzothiophene	151.00	27.8
1,8-dimethylnaphthalene	347.00	54.2	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	40.20 B	5.71 B	fluoranthene	14.70	2.98
1-methylphenanthrene	133.00	25.6	fluorene	107.00	17.7
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	38.40	5.15
2,6-dimethylnaphthalene	46.40	7.25	n-Decane	1.34 U	0.19 U
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	225.00 B	38.3 B
2-Ethylanthraquinone	3030.00	716	n-Eicosane	309000.00	87200
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	8650.00 B	2080 B
2-methylnaphthalene	0.22 U	0.03 U	n-Hexadecane	3000.00 B	680 B
2-methylphenanthrene	222.00	42.8	n-Nonane	2.01 U	0.26 U
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	23900.00	6090
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	77900.00 B	16500 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	5200.00 B	1030 B
9,10-Anthraquinone	4500.00	936	n-Undecane	826.00 B	129 B
9-Fluorenone	497.00	89.5	naphthalene	0.19 U	0.02 U
9-methylanthracene	879.00	169	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	145.00	22.4	o-Xylene	2.03 U	0.22 U
acenaphthylene	43.40	6.61	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	40.60 B	5.45 B
anthracene	345.00	61.5	phenanthrene	344.00	61.4
benz[a]anthracene	1.40 U	0.32 U	pyrene	0.17 U	0.03 U
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	42.80	5.74
benzo[a]fluorene	20.20	4.37	Styrene	105.00	10.9
benzo[a]pyrene	0.92 U	0.23 U	TCEP	44.90 J	12.8 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	1860.00 B	802 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	7.28 U	1.84 U	TPP	237.00 J	77.3 J
benzo[ghi]perylene	730.00	202	Tributyl phosphate	411.00 J	109 J
benzo[j]fluoranthene	12.00 J	3.03 J	tricresyl phosphate	591.00 J	217 J
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	112.00 J	48.6 J
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	YPA_0107	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200568	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	0.96 U	0.17 U	chrysene	1.82 U	0.42 U
1,2,3-Trimethylbenzene	12.70 B	1.53 B	coronene	11.60 U	3.49 U
1,2,4-Trichlorobenzene	0.95 U	0.17 U	Cumene	1.39 U	0.17 U
1,2,4-Trimethylbenzene	47.70 B	5.74 B	cyclopenta[cd]pyrene	0.94 U	0.21 U
1,2-dimethylnaphthalene	0.17 U	0.03 U	dibenzo[a,e]fluoranthene	16.00 U	4.83 U
1,3,5-Trimethylbenzene	11.10 B	1.34 B	dibenzo[a,e]pyrene	14.10 U	4.26 U
1,3-Dichlorobenzene	1.10 U	0.16 U	dibenzo[a,h]anthracene	59.80 U	16.6 U
1,3-dimethylnaphthalene	47.10 B	7.35 B	dibenzo[a,h]pyrene	711.00 U	215 U
1,4-dimethylnaphthalene	28.10	4.39	dibenzo[a,i]pyrene	711.00 U	215 U
1,5-dimethylnaphthalene	0.26 U	0.04 U	dibenzo[a,l]pyrene	11.20 U	3.39 U
1,6-dimethylnaphthalene	36.60 B	5.71 B	dibenzothiophene	0.56 U	0.10 U
1,8-dimethylnaphthalene	0.17 U	0.03 U	Ethylbenzene	37.20	3.95
1-methylnaphthalene	45.60 B	6.48 B	fluoranthene	291.00	58.8
1-methylphenanthrene	0.94 U	0.18 U	fluorene	54.30	9.02
1-methylpyrene	0.14 U	0.03 U	indeno[1,2,3-cd]pyrene	5.36 U	1.48 U
2,3-dimethylanthracene	8.16 U	1.68 U	n-Butylbenzene	1.28 U	0.17 U
2,6-dimethylnaphthalene	40.20	6.28	n-Decane	205.00 B	29.2 B
2-Chlorotoluene	1.32 U	0.17 U	n-Dodecane	168.00 B	28.7 B
2-Ethylanthraquinone	5.36 U	1.27 U	n-Eicosane	68700.00	19400
2-methylanthracene	5.40 U	1.04 U	n-Heptadecane	50900.00 B	12200 B
2-methylnaphthalene	78.00 B	11.1 B	n-Hexadecane	59500.00 B	13500 B
2-methylphenanthrene	271.00	52.1	n-Nonane	2300.00 B	295 B
3,6-dimethylphenanthrene	0.70 U	0.14 U	n-Octadecane	41100.00	10500
4-Chlorotoluene	1.28 U	0.16 U	n-Pentadecane	93200.00 B	19800 B
5-methylchrysene	1.80 U	0.44 U	n-Propylbenzene	10.90 B	1.31 B
6-methylchrysene	1.29 U	0.31 U	n-Tetradecane	59900.00 B	11900 B
9,10-Anthraquinone	8.84 U	1.84 U	n-Undecane	428.00 B	66.9 B
9-Fluorenone	0.13 U	0.02 U	naphthalene	4.68	0.60
9-methylanthracene	8.74 U	1.68 U	o-Dichlorobenzene	1.12 U	0.16 U
acenaphthene	0.20 U	0.03 U	o-Xylene	1.82 U	0.19 U
acenaphthylene	0.20 U	0.03 U	p-Dichlorobenzene	66.00	9.71
anthanthrene	51.90 U	14.3 U	p-Isopropyltoluene	8.73 B	1.17 B
anthracene	0.94 U	0.17 U	phenanthrene	590.00	105
benz[a]anthracene	1.26 U	0.29 U	pyrene	0.15 U	0.03 U
Benzanthrone	4.47 U	1.03 U	retene	0.07 U	0.02 U
benzo[a]chrysene	43.20 U	12.0 U	sec-Butylbenzene	1.25 U	0.17 U
benzo[a]fluorene	0.19 U	0.04 U	Styrene	253.00	26.4
benzo[a]pyrene	108.00	27.3	TCEP	353.00 J	101 J

benzo[b+c]fluorene	error	0.03 U	TDCPP	2770.00 B	1190 B
benzo[b+k]fluoranthene	error	3.35 U	tert-Butylbenzene	1.28 U	0.17 U
benzo[e]pyrene	517.00	130	TPP	5510.00 J	1800 J
benzo[ghi]perylene	0.67 U	0.19 U	Tributyl phosphate	319.00 J	85.1 J
benzo[j]fluoranthene	7.29 U	1.84 U	tricresyl phosphate	9680.00 J	3560 J
Benzofluorenone	3.70 U	0.85 U	triphenylene	1.29 U	0.29 U
Bromobenzene	0.99 U	0.16 U	Tris(2-ethylhexyl) phosphate	1.63 U	0.71 U
Chlorobenzene	1.66 U	0.19 U	Xanthone	0.51 U	0.10 U
Chromone	12.60 U	1.84 U	Xylenes (m and p)	71.50	7.60

Client Sample Name:	MNO_0410	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200569	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.57 U	0.19 U	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	1.55 U	0.19 U	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	1.52 U	0.18 U	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	42.10 B	6.58 B	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	44.70	6.98	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	217.00	34.0	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	34.20 B	5.34 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	18.90 B	2.68 B	fluoranthene	359.00	72.5
1-methylphenanthrene	165.00	31.7	fluorene	61.10	10.2
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	0.19 U	0.03 U	n-Decane	319.00 B	45.4 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	242.00 B	41.2 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	114000.00	32200
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	28500.00 B	6860 B
2-methylnaphthalene	10.80 B	1.54 B	n-Hexadecane	16900.00 B	3820 B
2-methylphenanthrene	163.00	31.3	n-Nonane	3470.00 B	445 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	47300.00	12000
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	6480.00 B	1380 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	3580.00 B	710 B
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	721.00 B	113 B
9-Fluorenone	0.15 U	0.03 U	naphthalene	0.19 U	0.02 U
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	26.10 B	3.51 B
anthracene	1.04 U	0.19 U	phenanthrene	416.00	74.1
benz[a]anthracene	1.40 U	0.32 U	pyrene	274.00	55.5
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	113.00	11.8
benzo[a]pyrene	123.00	31.1	TCEP	486.00 J	139 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	8.12 U	3.50 U
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	275.00	69.4	TPP	3730.00 J	1220 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	3.18 U	0.85 U
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	MNO_1022	**Test Method:**	VOC and SVOC by Thermal Desorption
FSES Sample ID:	A200570	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2,3-Trichlorobenzene	1.07 U	0.19 U	chrysene	2.02 U	0.46 U
1,2,3-Trimethylbenzene	1.57 U	0.19 U	coronene	12.90 U	3.88 U
1,2,4-Trichlorobenzene	1.05 U	0.19 U	Cumene	1.55 U	0.19 U
1,2,4-Trimethylbenzene	1.55 U	0.19 U	cyclopenta[cd]pyrene	1.04 U	0.24 U
1,2-dimethylnaphthalene	0.19 U	0.03 U	dibenzo[a,e]fluoranthene	17.80 U	5.37 U
1,3,5-Trimethylbenzene	1.52 U	0.18 U	dibenzo[a,e]pyrene	15.70 U	4.73 U
1,3-Dichlorobenzene	1.23 U	0.18 U	dibenzo[a,h]anthracene	66.50 U	18.5 U
1,3-dimethylnaphthalene	62.70 B	9.79 B	dibenzo[a,h]pyrene	790.00 U	239 U
1,4-dimethylnaphthalene	0.20 U	0.03 U	dibenzo[a,i]pyrene	790.00 U	239 U
1,5-dimethylnaphthalene	0.29 U	0.04 U	dibenzo[a,l]pyrene	12.50 U	3.77 U
1,6-dimethylnaphthalene	34.70 B	5.42 B	dibenzothiophene	0.62 U	0.11 U
1,8-dimethylnaphthalene	0.19 U	0.03 U	Ethylbenzene	1.93 U	0.20 U
1-methylnaphthalene	25.60 B	3.64 B	fluoranthene	301.00	60.8
1-methylphenanthrene	1.05 U	0.20 U	fluorene	70.50	11.7
1-methylpyrene	0.16 U	0.03 U	indeno[1,2,3-cd]pyrene	5.95 U	1.64 U
2,3-dimethylanthracene	9.07 U	1.87 U	n-Butylbenzene	1.42 U	0.19 U
2,6-dimethylnaphthalene	38.30	5.98	n-Decane	131.00 B	18.6 B
2-Chlorotoluene	1.47 U	0.19 U	n-Dodecane	345.00 B	58.7 B
2-Ethylanthraquinone	5.96 U	1.41 U	n-Eicosane	95000.00	26800
2-methylanthracene	6.00 U	1.15 U	n-Heptadecane	44900.00 B	10800 B
2-methylnaphthalene	27.10 B	3.85 B	n-Hexadecane	60700.00 B	13800 B
2-methylphenanthrene	112.00	21.6	n-Nonane	837.00 B	107 B
3,6-dimethylphenanthrene	0.77 U	0.16 U	n-Octadecane	42800.00	10900
4-Chlorotoluene	1.43 U	0.18 U	n-Pentadecane	186000.00 B	39500 B
5-methylchrysene	2.01 U	0.49 U	n-Propylbenzene	1.52 U	0.18 U
6-methylchrysene	1.44 U	0.35 U	n-Tetradecane	238000.00 J	47200 J
9,10-Anthraquinone	9.83 U	2.05 U	n-Undecane	1.24 U	0.19 U
9-Fluorenone	0.15 U	0.03 U	naphthalene	1.97	0.25
9-methylanthracene	9.72 U	1.87 U	o-Dichlorobenzene	1.25 U	0.18 U
acenaphthene	0.22 U	0.03 U	o-Xylene	2.03 U	0.22 U
acenaphthylene	0.23 U	0.03 U	p-Dichlorobenzene	6.13 U	0.90 U
anthanthrene	57.70 U	15.9 U	p-Isopropyltoluene	41.20 B	5.53 B
anthracene	1.04 U	0.19 U	phenanthrene	344.00	61.4
benz[a]anthracene	1.40 U	0.32 U	pyrene	235.00	47.5
Benzanthrone	4.97 U	1.14 U	retene	0.08 U	0.02 U
benzo[a]chrysene	48.00 U	13.4 U	sec-Butylbenzene	1.39 U	0.19 U
benzo[a]fluorene	0.21 U	0.04 U	Styrene	85.10	8.86
benzo[a]pyrene	0.92 U	0.23 U	TCEP	359.00 J	102 J

benzo[b+c]fluorene	error	0.04 U	TDCPP	2880.00 B	1240 B
benzo[b+k]fluoranthene	error	3.72 U	tert-Butylbenzene	1.42 U	0.19 U
benzo[e]pyrene	7.28 U	1.84 U	TPP	5280.00 J	1720 J
benzo[ghi]perylene	0.75 U	0.21 U	Tributyl phosphate	515.00 J	137 J
benzo[j]fluoranthene	8.10 U	2.04 U	tricresyl phosphate	24.50 U	9.01 U
Benzofluorenone	4.11 U	0.95 U	triphenylene	1.43 U	0.33 U
Bromobenzene	1.10 U	0.17 U	Tris(2-ethylhexyl) phosphate	1.82 U	0.79 U
Chlorobenzene	1.84 U	0.21 U	Xanthone	0.57 U	0.11 U
Chromone	14.00 U	2.05 U	Xylenes (m and p)	1.83 U	0.19 U

Client Sample Name:	DCA_1103	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200555	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	31.60	7.96
1,6 and 1,3-Dimethylnaphthalene	38.60 B	6.03 B	benzo[ghi]perylene	< 0.33 U	< 0.09 U
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	12.30	3.10
1-methylnaphthalene	29.70 B	4.22 B	benzo[k]fluoranthene	9.08	2.29
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	37.40	8.55
1-methylpyrene	26.70	5.77	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	13.30 B	2.07 B	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	79.20	15.2	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	57.00 B	8.11 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	105.00	20.2	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	21.30	3.92
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	175.00	35.3
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	87.10	14.5
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	35.40 B	4.54 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	22.70	5.19	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	801.00	143
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	120.00	24.3
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	16.30	3.82
benzo[b]fluoranthene	24.10	6.08	triphenylene	19.70	4.50
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	KDA_1118	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200556	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	182.00	45.9
1,6 and 1,3-Dimethylnaphthalene	51.50 B	8.04 B	benzo[ghi]perylene	81.80	22.6
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	116.00	29.2
1-methylnaphthalene	35.30 B	5.02 B	benzo[k]fluoranthene	101.00	25.5
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	46.80	10.1	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	18.20 B	2.83 B	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	< 0.65 U	< 0.12 U	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	51.60 B	7.34 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	157.00	30.2	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	< 0.35 U	< 0.06 U
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	368.00	74.4
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	90.50	15.0
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	54.30	15.0
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	48.80 B	6.26 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	644.00	115
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	346.00	70.0
benzo[a]pyrene	14.20	3.59	retene	< 0.95 U	< 0.22 U
benzo[b]fluoranthene	234.00	59.0	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	KPU_0816	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200557	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	16.60	3.58
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	175.00	44.1
1,6 and 1,3-Dimethylnaphthalene	36.40 B	5.69 B	benzo[ghi]perylene	105.00	29.0
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	120.00	30.3
1-methylnaphthalene	28.20 B	4.01 B	benzo[k]fluoranthene	111.00	27.9
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	18.80	4.06	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	12.30 B	1.91 B	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	98.20	18.9	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	52.30 B	7.44 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	149.00	28.6	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	62.10	11.4
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	686.00	139
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	173.00	28.7
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	79.50	22.0
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	139.00 B	17.8 B
acenaphthene	113.00	17.4	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	111.00	19.8	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	63.70	14.5	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	14.00	3.52
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	1050.00	188
benzo[a]fluorene	42.30	9.14	pyrene	380.00	76.9
benzo[a]pyrene	51.60	13.0	retene	34.30	8.03
benzo[b]fluoranthene	211.00	53.1	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	36.20	7.83			

Client Sample Name:	DDA_0823	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200558	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	135.00	34.1
1,6 and 1,3-Dimethylnaphthalene	27.50 B	4.29 B	benzo[ghi]perylene	34.20	9.45
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	81.70	20.6
1-methylnaphthalene	24.80 B	3.52 B	benzo[k]fluoranthene	55.40	14.0
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	217.00	46.8	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	12.90 B	2.02 B	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	128.00	24.6	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	39.50 B	5.61 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	220.00	42.2	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	60.90	12.6	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	21.50	3.96
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	202.00	40.8
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	59.80	9.94
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	51.80 B	6.64 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	39.50	9.01	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	404.00	72.0
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	498.00	101
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	< 0.95 U	< 0.22 U
benzo[b]fluoranthene	135.00	34.1	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	DDA_0117	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200559	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.44 U	< 0.22 U	benzo[b]perylene	< 1.32 U	< 0.40 U
1,4-dimethylnaphthalene	< 1.90 U	< 0.30 U	benzo[c]fluorene	< 0.33 U	< 0.07 U
1,5-dimethylnaphthalene	< 1.82 U	< 0.28 U	benzo[e]pyrene	136.00	34.4
1,6 and 1,3-Dimethylnaphthalene	35.70 B	5.57 B	benzo[ghi]perylene	33.90	9.37
1,8-dimethylnaphthalene	< 1.27 U	< 0.20 U	benzo[j]fluoranthene	81.70	20.6
1-methylnaphthalene	38.40 B	5.46 B	benzo[k]fluoranthene	54.00	13.6
1-methylphenanthrene	< 1.32 U	< 0.25 U	chrysene	< 0.52 U	< 0.12 U
1-methylpyrene	117.00	25.4	coronene	< 0.56 U	< 0.17 U
2,3-dimethylanthracene	< 0.39 U	< 0.08 U	cyclopenta[cd]pyrene	< 0.56 U	< 0.13 U
2,6-diethylnaphthalene	< 1.05 U	< 0.19 U	dibenzo[a,e]fluoranthene	< 0.37 U	< 0.11 U
2,6-dimethylnaphthalene	< 1.36 U	< 0.21 U	dibenzo[a,e]pyrene	< 5.09 U	< 1.54 U
2-ethylnaphthalene	14.40 B	2.25 B	dibenzo[a,h]anthracene	< 0.88 U	< 0.24 U
2-methylanthracene	97.40	18.7	dibenzo[a,h]pyrene	< 0.41 U	< 0.12 U
2-methylnaphthalene	73.50 B	10.4 B	dibenzo[a,i]pyrene	< 1.12 U	< 0.34 U
2-methylphenanthrene	143.00	27.4	dibenzo[a,l]pyrene	< 0.38 U	< 0.11 U
3,6-dimethylphenanthrene	32.80	6.77	dibenzo[e,l]pyrene	< 1.32 U	< 0.40 U
5-methylchrysene	< 1.65 U	< 0.40 U	dibenzothiophene	32.50	5.99
6-methylchrysene	49.40	12.0	fluoranthene	233.00	47.2
7,12-dimethylbenz[a]anthracene	< 0.88 U	< 0.22 U	fluorene	63.20	10.5
9,10-dimethylanthracene	< 0.98 U	< 0.20 U	indeno[1,2,3-cd]pyrene	< 0.22 U	< 0.06 U
9-methylanthracene	< 1.08 U	< 0.21 U	naphthalene	83.00 B	10.6 B
acenaphthene	< 1.66 U	< 0.26 U	naphtho[1,2-b]fluoranthene	< 1.32 U	< 0.40 U
acenaphthylene	< 3.66 U	< 0.56 U	naphtho[2,3-a]pyrene	< 1.32 U	< 0.40 U
anthanthrene	< 0.28 U	< 0.08 U	naphtho[2,3-e]pyrene	< 1.32 U	< 0.40 U
anthracene	< 1.41 U	< 0.25 U	naphtho[2,3-j]fluoranthene	< 1.32 U	< 0.40 U
benz[a]anthracene	< 0.78 U	< 0.18 U	naphtho[2,3-k]fluoranthene	< 1.32 U	< 0.40 U
benz[j] and [e]aceanthrylene	error	< 0.40 U	perylene	< 0.95 U	< 0.24 U
benzo[a]chrysene	< 0.64 U	< 0.18 U	phenanthrene	546.00	97.2
benzo[a]fluorene	< 1.85 U	< 0.40 U	pyrene	568.00	115
benzo[a]pyrene	< 1.12 U	< 0.28 U	retene	132.00	31.0
benzo[b]fluoranthene	149.00	37.6	triphenylene	< 0.43 U	< 0.10 U
benzo[b]fluorene	< 1.85 U	< 0.40 U			

Client Sample Name:	KPU_0307	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200560	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	40.80	10.3
1,6 and 1,3-Dimethylnaphthalene	48.50 B	7.57 B	benzo[ghi]perylene	21.70	6.00
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	23.30	5.89
1-methylnaphthalene	49.60 B	7.06 B	benzo[k]fluoranthene	20.00	5.05
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	17.70	3.84	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	27.50 B	4.29 B	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	62.10	11.9	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	86.00 B	12.2 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	86.60	16.6	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	16.90	3.11
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	172.00	34.8
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	44.00	7.32
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	107.00 B	13.7 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	383.00	68.2
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	124.00	25.0
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	34.10	7.99
benzo[b]fluoranthene	45.50	11.5	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	ARO_0702	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200561	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	162.00	40.8
1,6 and 1,3-Dimethylnaphthalene	42.80 B	6.69 B	benzo[ghi]perylene	31.50	8.71
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	102.00	25.7
1-methylnaphthalene	50.70 B	7.21 B	benzo[k]fluoranthene	76.80	19.4
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	61.70	13.4	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	18.80 B	2.94 B	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	74.40	14.3	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	88.20 B	12.5 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	103.00	19.8	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	17.70	3.27
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	191.00	38.6
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	56.40	9.38
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	22.20	6.14
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	64.00 B	8.20 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	419.00	74.6
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	388.00	78.4
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	117.00	27.4
benzo[b]fluoranthene	181.00	45.6	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	ARO_1213	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200562	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	28.30	7.15
1,6 and 1,3-Dimethylnaphthalene	7.33 B	1.14 B	benzo[ghi]perylene	15.50	4.29
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	< 0.59 U	< 0.15 U
1-methylnaphthalene	< 0.52 U	< 0.07 U	benzo[k]fluoranthene	< 0.56 U	< 0.14 U
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	18.90	4.08	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	< 1.65 U	< 0.26 U	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	45.40	8.72	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	< 1.31 U	< 0.19 U	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	59.90	11.5	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	< 0.35 U	< 0.06 U
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	93.90	19.0
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	< 1.26 U	< 0.21 U
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	< 2.16 U	< 0.28 U
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	56.20	10.0	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	269.00	48.0
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	69.50	14.0
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	18.50	4.33
benzo[b]fluoranthene	29.00	7.31	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	JRI_0607	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200563	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.44 U	< 0.22 U	benzo[b]perylene	< 1.32 U	< 0.40 U
1,4-dimethylnaphthalene	< 1.90 U	< 0.30 U	benzo[c]fluorene	< 0.33 U	< 0.07 U
1,5-dimethylnaphthalene	< 1.82 U	< 0.28 U	benzo[e]pyrene	< 0.67 U	< 0.17 U
1,6 and 1,3-Dimethylnaphthalene	42.60 B	6.65 B	benzo[ghi]perylene	< 0.29 U	< 0.08 U
1,8-dimethylnaphthalene	< 1.27 U	< 0.20 U	benzo[j]fluoranthene	< 0.53 U	< 0.13 U
1-methylnaphthalene	29.50 B	4.20 B	benzo[k]fluoranthene	< 0.50 U	< 0.13 U
1-methylphenanthrene	< 1.32 U	< 0.25 U	chrysene	< 0.52 U	< 0.12 U
1-methylpyrene	130.00	28.1	coronene	< 0.56 U	< 0.17 U
2,3-dimethylanthracene	< 0.39 U	< 0.08 U	cyclopenta[cd]pyrene	< 0.56 U	< 0.13 U
2,6-diethylnaphthalene	< 1.05 U	< 0.19 U	dibenzo[a,e]fluoranthene	< 0.37 U	< 0.11 U
2,6-dimethylnaphthalene	< 1.36 U	< 0.21 U	dibenzo[a,e]pyrene	< 5.09 U	< 1.54 U
2-ethylnaphthalene	< 1.48 U	< 0.23 U	dibenzo[a,h]anthracene	< 0.88 U	< 0.24 U
2-methylanthracene	156.00	30.0	dibenzo[a,h]pyrene	< 0.41 U	< 0.12 U
2-methylnaphthalene	46.30 B	6.58 B	dibenzo[a,i]pyrene	< 1.12 U	< 0.34 U
2-methylphenanthrene	201.00	38.6	dibenzo[a,l]pyrene	< 0.38 U	< 0.11 U
3,6-dimethylphenanthrene	17.80	3.67	dibenzo[e,l]pyrene	< 1.32 U	< 0.40 U
5-methylchrysene	< 1.65 U	< 0.40 U	dibenzothiophene	31.90	5.88
6-methylchrysene	< 0.88 U	< 0.21 U	fluoranthene	182.00	36.7
7,12-dimethylbenz[a]anthracene	< 0.88 U	< 0.22 U	fluorene	54.40	9.05
9,10-dimethylanthracene	< 0.98 U	< 0.20 U	indeno[1,2,3-cd]pyrene	< 0.22 U	< 0.06 U
9-methylanthracene	< 1.08 U	< 0.21 U	naphthalene	36.00 B	4.61 B
acenaphthene	< 1.66 U	< 0.26 U	naphtho[1,2-b]fluoranthene	< 1.32 U	< 0.40 U
acenaphthylene	< 3.66 U	< 0.56 U	naphtho[2,3-a]pyrene	< 1.32 U	< 0.40 U
anthanthrene	< 0.28 U	< 0.08 U	naphtho[2,3-e]pyrene	< 1.32 U	< 0.40 U
anthracene	< 1.41 U	< 0.25 U	naphtho[2,3-j]fluoranthene	< 1.32 U	< 0.40 U
benz[a]anthracene	< 0.78 U	< 0.18 U	naphtho[2,3-k]fluoranthene	< 1.32 U	< 0.40 U
benz[j] and [e]aceanthrylene	error	< 0.40 U	perylene	< 0.95 U	< 0.24 U
benzo[a]chrysene	< 0.64 U	< 0.18 U	phenanthrene	1160.00	207
benzo[a]fluorene	< 1.85 U	< 0.40 U	pyrene	377.00	76.2
benzo[a]pyrene	< 1.12 U	< 0.28 U	retene	84.00	19.7
benzo[b]fluoranthene	39.60	10.0	triphenylene	< 0.43 U	< 0.10 U
benzo[b]fluorene	< 1.85 U	< 0.40 U			

Client Sample Name:	JRI_1115	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200564	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	< 0.75 U	< 0.19 U
1,6 and 1,3-Dimethylnaphthalene	< 1.38 U	< 0.22 U	benzo[ghi]perylene	< 0.33 U	< 0.09 U
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	< 0.59 U	< 0.15 U
1-methylnaphthalene	27.10 B	3.86 B	benzo[k]fluoranthene	< 0.56 U	< 0.14 U
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	< 0.47 U	< 0.10 U	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	< 1.65 U	< 0.26 U	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	74.20	14.2	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	43.40 B	6.17 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	92.50	17.8	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	20.00	3.69
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	85.10	17.2
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	50.00	8.31
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	68.90 B	8.83 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	715.00	128
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	37.80	7.64
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	11.30	2.64
benzo[b]fluoranthene	< 0.39 U	< 0.10 U	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	KDA_0820	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200565	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	38.50	9.70
1,6 and 1,3-Dimethylnaphthalene	54.20 B	8.47 B	benzo[ghi]perylene	21.40	5.92
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	23.70	5.97
1-methylnaphthalene	31.00 B	4.41 B	benzo[k]fluoranthene	20.60	5.20
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	15.20	3.28	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	18.00 B	2.81 B	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	91.20	17.5	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	46.40 B	6.60 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	123.00	23.7	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	27.30	5.04
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	175.00	35.5
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	53.70	8.93
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	189.00 B	24.2 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	435.00	77.4
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	106.00	21.4
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	28.70	6.72
benzo[b]fluoranthene	45.90	11.6	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	DCA_0726	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200566	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	14.90	3.76
1,6 and 1,3-Dimethylnaphthalene	64.90 B	10.1 B	benzo[ghi]perylene	< 0.33 U	< 0.09 U
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	< 0.59 U	< 0.15 U
1-methylnaphthalene	26.70 B	3.80 B	benzo[k]fluoranthene	< 0.56 U	< 0.14 U
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	15.30	3.32	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	< 1.65 U	< 0.26 U	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	< 0.65 U	< 0.12 U	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	45.10 B	6.42 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	< 0.54 U	< 0.10 U	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	< 0.35 U	< 0.06 U
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	132.00	26.7
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	< 1.26 U	< 0.21 U
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	31.90 B	4.09 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	< 0.68 U	< 0.12 U
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	91.60	18.5
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	25.50	5.98
benzo[b]fluoranthene	16.00	4.03	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	YPA_0611	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200567	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	31.00	7.82
1,6 and 1,3-Dimethylnaphthalene	33.50 B	5.23 B	benzo[ghi]perylene	< 0.33 U	< 0.09 U
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	17.80	4.49
1-methylnaphthalene	25.60 B	3.64 B	benzo[k]fluoranthene	10.50	2.65
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	42.80	9.76
1-methylpyrene	19.90	4.30	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	6.92 JB	1.08 JB	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	194.00	37.3	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	47.70 B	6.78 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	194.00	37.3	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	36.70	7.56	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	40.50	7.46
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	147.00	29.7
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	49.10	8.17
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	< 0.25 U	< 0.07 U
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	< 2.16 U	< 0.28 U
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	484.00	86.3
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	104.00	21.1
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	52.20	12.2
benzo[b]fluoranthene	32.20	8.13	triphenylene	23.50	5.36
benzo[b]fluorene	< 2.05 U	< 0.44 U			

Client Sample Name:	YPA_0107	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200568	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.44 U	< 0.22 U	benzo[b]perylene	< 1.32 U	< 0.40 U
1,4-dimethylnaphthalene	6.48 J	1.01 J	benzo[c]fluorene	< 0.33 U	< 0.07 U
1,5-dimethylnaphthalene	< 1.82 U	< 0.28 U	benzo[e]pyrene	139.00	35.0
1,6 and 1,3-Dimethylnaphthalene	27.00 B	4.22 B	benzo[ghi]perylene	< 0.29 U	< 0.08 U
1,8-dimethylnaphthalene	< 1.27 U	< 0.20 U	benzo[j]fluoranthene	94.80	23.9
1-methylnaphthalene	29.30 B	4.17 B	benzo[k]fluoranthene	67.30	17.0
1-methylphenanthrene	< 1.32 U	< 0.25 U	chrysene	< 0.52 U	< 0.12 U
1-methylpyrene	71.80	15.5	coronene	< 0.56 U	< 0.17 U
2,3-dimethylanthracene	< 0.39 U	< 0.08 U	cyclopenta[cd]pyrene	< 0.56 U	< 0.13 U
2,6-diethylnaphthalene	< 1.05 U	< 0.19 U	dibenzo[a,e]fluoranthene	< 0.37 U	< 0.11 U
2,6-dimethylnaphthalene	< 1.36 U	< 0.21 U	dibenzo[a,e]pyrene	< 5.09 U	< 1.54 U
2-ethylnaphthalene	5.54 JB	0.86 JB	dibenzo[a,h]anthracene	< 0.88 U	< 0.24 U
2-methylanthracene	181.00	34.8	dibenzo[a,h]pyrene	< 0.41 U	< 0.12 U
2-methylnaphthalene	53.70 B	7.64 B	dibenzo[a,i]pyrene	< 1.12 U	< 0.34 U
2-methylphenanthrene	195.00	37.5	dibenzo[a,l]pyrene	< 0.38 U	< 0.11 U
3,6-dimethylphenanthrene	31.90	6.59	dibenzo[e,l]pyrene	< 1.32 U	< 0.40 U
5-methylchrysene	< 1.65 U	< 0.40 U	dibenzothiophene	38.30	7.06
6-methylchrysene	< 0.88 U	< 0.21 U	fluoranthene	234.00	47.2
7,12-dimethylbenz[a]anthracene	< 0.88 U	< 0.22 U	fluorene	51.30	8.52
9,10-dimethylanthracene	< 0.98 U	< 0.20 U	indeno[1,2,3-cd]pyrene	< 0.22 U	< 0.06 U
9-methylanthracene	< 1.08 U	< 0.21 U	naphthalene	70.60 B	9.05 B
acenaphthene	< 1.66 U	< 0.26 U	naphtho[1,2-b]fluoranthene	< 1.32 U	< 0.40 U
acenaphthylene	< 3.66 U	< 0.56 U	naphtho[2,3-a]pyrene	< 1.32 U	< 0.40 U
anthanthrene	< 0.28 U	< 0.08 U	naphtho[2,3-e]pyrene	< 1.32 U	< 0.40 U
anthracene	42.40	7.55	naphtho[2,3-j]fluoranthene	< 1.32 U	< 0.40 U
benz[a]anthracene	< 0.78 U	< 0.18 U	naphtho[2,3-k]fluoranthene	< 1.32 U	< 0.40 U
benz[j] and [e]aceanthrylene	error	< 0.40 U	perylene	< 0.95 U	< 0.24 U
benzo[a]chrysene	< 0.64 U	< 0.18 U	phenanthrene	565.00	101
benzo[a]fluorene	< 1.85 U	< 0.40 U	pyrene	519.00	105
benzo[a]pyrene	< 1.12 U	< 0.28 U	retene	222.00	51.9
benzo[b]fluoranthene	163.00	41.2	triphenylene	84.30	19.2
benzo[b]fluorene	< 1.85 U	< 0.40 U			

Client Sample Name:	MNO_0410	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200569	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.64 U	< 0.26 U	benzo[b]perylene	< 1.50 U	< 0.45 U
1,4-dimethylnaphthalene	< 2.16 U	< 0.34 U	benzo[c]fluorene	< 0.38 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.07 U	< 0.32 U	benzo[e]pyrene	68.00	17.1
1,6 and 1,3-Dimethylnaphthalene	26.60 B	4.15 B	benzo[ghi]perylene	49.80	13.8
1,8-dimethylnaphthalene	< 1.45 U	< 0.23 U	benzo[j]fluoranthene	38.40	9.68
1-methylnaphthalene	9.89 B	1.41 B	benzo[k]fluoranthene	33.30	8.41
1-methylphenanthrene	< 1.50 U	< 0.29 U	chrysene	< 0.60 U	< 0.14 U
1-methylpyrene	32.50	7.02	coronene	< 0.63 U	< 0.19 U
2,3-dimethylanthracene	< 0.45 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.64 U	< 0.14 U
2,6-diethylnaphthalene	< 1.20 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.42 U	< 0.13 U
2,6-dimethylnaphthalene	< 1.55 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.80 U	< 1.75 U
2-ethylnaphthalene	< 1.69 U	< 0.26 U	dibenzo[a,h]anthracene	< 1.00 U	< 0.28 U
2-methylanthracene	89.00	17.1	dibenzo[a,h]pyrene	< 0.47 U	< 0.14 U
2-methylnaphthalene	9.13 B	1.30 B	dibenzo[a,i]pyrene	< 1.28 U	< 0.39 U
2-methylphenanthrene	102.00	19.7	dibenzo[a,l]pyrene	< 0.43 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.55 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.50 U	< 0.45 U
5-methylchrysene	< 1.88 U	< 0.45 U	dibenzothiophene	25.40	4.68
6-methylchrysene	< 1.00 U	< 0.24 U	fluoranthene	240.00	48.5
7,12-dimethylbenz[a]anthracene	< 1.00 U	< 0.26 U	fluorene	58.20	9.68
9,10-dimethylanthracene	< 1.12 U	< 0.23 U	indeno[1,2,3-cd]pyrene	34.00	9.39
9-methylanthracene	< 1.23 U	< 0.24 U	naphthalene	32.70 B	4.19 B
acenaphthene	< 1.89 U	< 0.29 U	naphtho[1,2-b]fluoranthene	< 1.50 U	< 0.45 U
acenaphthylene	< 4.17 U	< 0.63 U	naphtho[2,3-a]pyrene	< 1.50 U	< 0.45 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.50 U	< 0.45 U
anthracene	< 1.60 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.50 U	< 0.45 U
benz[a]anthracene	< 0.89 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.50 U	< 0.45 U
benz[j] and [e]aceanthrylene	error	< 0.45 U	perylene	< 1.08 U	< 0.27 U
benzo[a]chrysene	< 0.72 U	< 0.20 U	phenanthrene	462.00	82.4
benzo[a]fluorene	< 2.10 U	< 0.45 U	pyrene	168.00	34.0
benzo[a]pyrene	< 1.27 U	< 0.32 U	retene	42.20	9.88
benzo[b]fluoranthene	73.50	18.5	triphenylene	< 0.49 U	< 0.11 U
benzo[b]fluorene	< 2.10 U	< 0.45 U			

Client Sample Name:	MNO_1022	**Test Method:**	Parent and Alkyl Substituted PAHs by GC-MS/MS
FSES Sample ID:	A200570	**Date Received:**	03/13/20
		Matrix:	Passive Sampling Device - Personal

Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)	Chemical Name	Molar Concentration (pMol/g)	Concentration (ng/g)
1,2-dimethylnaphthalene	< 1.60 U	< 0.25 U	benzo[b]perylene	< 1.47 U	< 0.44 U
1,4-dimethylnaphthalene	< 2.11 U	< 0.33 U	benzo[c]fluorene	< 0.37 U	< 0.08 U
1,5-dimethylnaphthalene	< 2.02 U	< 0.32 U	benzo[e]pyrene	45.40	11.4
1,6 and 1,3-Dimethylnaphthalene	< 1.38 U	< 0.22 U	benzo[ghi]perylene	35.30	9.74
1,8-dimethylnaphthalene	< 1.41 U	< 0.22 U	benzo[j]fluoranthene	27.50	6.94
1-methylnaphthalene	14.00 B	1.99 B	benzo[k]fluoranthene	22.60	5.71
1-methylphenanthrene	< 1.46 U	< 0.28 U	chrysene	< 0.58 U	< 0.13 U
1-methylpyrene	19.10	4.12	coronene	< 0.62 U	< 0.19 U
2,3-dimethylanthracene	< 0.44 U	< 0.09 U	cyclopenta[cd]pyrene	< 0.62 U	< 0.14 U
2,6-diethylnaphthalene	< 1.17 U	< 0.22 U	dibenzo[a,e]fluoranthene	< 0.41 U	< 0.12 U
2,6-dimethylnaphthalene	< 1.51 U	< 0.24 U	dibenzo[a,e]pyrene	< 5.66 U	< 1.71 U
2-ethylnaphthalene	< 1.65 U	< 0.26 U	dibenzo[a,h]anthracene	< 0.97 U	< 0.27 U
2-methylanthracene	86.70	16.7	dibenzo[a,h]pyrene	< 0.46 U	< 0.14 U
2-methylnaphthalene	16.10 B	2.28 B	dibenzo[a,i]pyrene	< 1.25 U	< 0.38 U
2-methylphenanthrene	103.00	19.8	dibenzo[a,l]pyrene	< 0.42 U	< 0.13 U
3,6-dimethylphenanthrene	< 0.54 U	< 0.11 U	dibenzo[e,l]pyrene	< 1.47 U	< 0.44 U
5-methylchrysene	< 1.83 U	< 0.44 U	dibenzothiophene	33.90	6.25
6-methylchrysene	< 0.98 U	< 0.24 U	fluoranthene	202.00	40.9
7,12-dimethylbenz[a]anthracene	< 0.97 U	< 0.25 U	fluorene	55.30	9.19
9,10-dimethylanthracene	< 1.10 U	< 0.22 U	indeno[1,2,3-cd]pyrene	23.60	6.52
9-methylanthracene	< 1.20 U	< 0.23 U	naphthalene	84.40 B	10.8 B
acenaphthene	< 1.84 U	< 0.28 U	naphtho[1,2-b]fluoranthene	< 1.47 U	< 0.44 U
acenaphthylene	< 4.07 U	< 0.62 U	naphtho[2,3-a]pyrene	< 1.47 U	< 0.44 U
anthanthrene	< 0.32 U	< 0.09 U	naphtho[2,3-e]pyrene	< 1.47 U	< 0.44 U
anthracene	< 1.56 U	< 0.28 U	naphtho[2,3-j]fluoranthene	< 1.47 U	< 0.44 U
benz[a]anthracene	< 0.87 U	< 0.20 U	naphtho[2,3-k]fluoranthene	< 1.47 U	< 0.44 U
benz[j] and [e]aceanthrylene	error	< 0.44 U	perylene	< 1.05 U	< 0.26 U
benzo[a]chrysene	< 0.71 U	< 0.20 U	phenanthrene	353.00	62.9
benzo[a]fluorene	< 2.05 U	< 0.44 U	pyrene	136.00	27.5
benzo[a]pyrene	< 1.24 U	< 0.31 U	retene	33.30	7.80
benzo[b]fluoranthene	52.10	13.1	triphenylene	< 0.48 U	< 0.11 U
benzo[b]fluorene	< 2.05 U	< 0.44 U			