

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122619\
 Data File : VY001079.D
 Acq On : 26 Dec 2019 17:48
 Operator : SY/MD
 Sample : K6438-02MS
 Misc : 5.24G/5ML/MSVOA Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DUNR-BF001-01MS

Manual Integrations
 APPROVED

apatel
 12/27/2019 11:04:42 AM

Quant Time: Dec 27 06:31:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	70464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	131902	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	124032	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	52240	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	43266	62.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.52%	
35) Dibromofluoromethane	7.73	113	39591	50.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.94%	
50) Toluene-d8	10.18	98	146936	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	
62) 4-Bromofluorobenzene	12.48	95	54231	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.90	85	25161	40.978	ug/l	96
3) Chloromethane	2.12	50	33199	39.728	ug/l	98
4) Vinyl Chloride	2.26	62	32191	39.666	ug/l	100
5) Bromomethane	2.66	94	23470	45.627	ug/l	91
6) Chloroethane	2.80	64	22534	44.581	ug/l	93
7) Trichlorofluoromethane	3.13	101	50642	42.545	ug/l	100
8) Diethyl Ether	3.54	74	30537	62.848	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.90	101	33319	42.613	ug/l	99
10) Methyl Iodide	4.10	142	45223	41.861	ug/l	99
11) Tert butyl alcohol	4.97	59	28286	370.167	ug/l #	94
12) 1,1-Dichloroethene	3.88	96	33906	42.832	ug/l	94
13) Acrolein	3.74	56	8995	95.005	ug/l	98
14) Allyl chloride	4.49	41	55330	44.993	ug/l	97
15) Acrylonitrile	5.18	53	91725	377.725	ug/l	98
16) Acetone	3.96	43	62265	388.907	ug/l	95
17) Carbon Disulfide	4.20	76	89202	34.484	ug/l #	94
18) Methyl Acetate	4.49	43	141140	229.779	ug/l	98
19) Methyl tert-butyl Ether	5.24	73	137804	67.447	ug/l	97
20) Methylene Chloride	4.73	84	50867	53.978	ug/l #	87
21) trans-1,2-Dichloroethene	5.23	96	41291	47.066	ug/l	96
22) Diisopropyl ether	6.14	45	145322	58.464	ug/l	90
23) Vinyl Acetate	6.08	43	55430	35.310	ug/l #	91
24) 1,1-Dichloroethane	6.04	63	73941	50.337	ug/l	96
25) 2-Butanone	7.00	43	110415	392.574	ug/l	91
26) 2,2-Dichloropropane	7.00	77	54753	45.369	ug/l	97
27) cis-1,2-Dichloroethene	7.00	96	52263	54.224	ug/l	95
28) Bromochloromethane	7.34	49	41417	72.264	ug/l	99
29) Tetrahydrofuran	7.36	42	76372	381.732	ug/l	98
30) Chloroform	7.52	83	76014	54.727	ug/l	98
31) Cyclohexane	7.79	56	56180	36.372	ug/l	96
32) 1,1,1-Trichloroethane	7.71	97	56430	47.626	ug/l	98
36) 1,1-Dichloropropene	7.93	75	53002	42.121	ug/l	99
37) Ethyl Acetate	7.08	43	33988	48.781	ug/l #	77
38) Carbon Tetrachloride	7.91	117	45563	41.328	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122619\
 Data File : VY001079.D
 Acq On : 26 Dec 2019 17:48
 Operator : SY/MD
 Sample : K6438-02MS
 Misc : 5.24G/5ML/MSVOA Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DUNR-BF001-01MS

Manual Integrations
 APPROVED

apatel
 12/27/2019 11:04:42 AM

Quant Time: Dec 27 06:31:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	57723	34.544	ug/l	97
40) Benzene	8.17	78	180730	47.608	ug/l	98
41) Methacrylonitrile	7.32	41	19337m	64.013	ug/l	
42) 1,2-Dichloroethane	8.25	62	53991	59.487	ug/l	100
43) Isopropyl Acetate	8.28	43	68397	53.029	ug/l	99
44) Trichloroethene	8.94	130	47616	47.605	ug/l	96
45) 1,2-Dichloropropane	9.22	63	50737	53.276	ug/l	94
46) Dibromomethane	9.32	93	31091	63.332	ug/l	99
47) Bromodichloromethane	9.50	83	63282	55.649	ug/l #	92
48) Methyl methacrylate	9.30	41	43311	78.689	ug/l	95
49) 1,4-Dioxane	9.30	88	11868	1652.606	ug/l	96
51) 4-Methyl-2-Pentanone	10.07	43	237990	354.013	ug/l	98
52) Toluene	10.24	92	108026	46.233	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	69884	56.626	ug/l	99
54) cis-1,3-Dichloropropene	9.93	75	80784	54.437	ug/l	98
55) 1,1,2-Trichloroethane	10.64	97	48654	66.386	ug/l	98
56) Ethyl methacrylate	10.51	69	45268	43.399	ug/l	99
57) 1,3-Dichloropropane	10.79	76	82009	63.839	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.78	63	116791	289.893	ug/l	98
59) 2-Hexanone	10.83	43	157769	339.166	ug/l	99
60) Dibromochloromethane	10.99	129	46359	59.218	ug/l	99
61) 1,2-Dibromoethane	11.09	107	46039	65.691	ug/l	97
64) Tetrachloroethene	10.72	164	50945	47.471	ug/l	96
65) Chlorobenzene	11.52	112	115981	45.080	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.59	131	43725	51.499	ug/l	98
67) Ethyl Benzene	11.59	91	197029	42.577	ug/l	99
68) m/p-Xylenes	11.70	106	148342	84.425	ug/l	100
69) o-Xylene	12.03	106	73455	44.437	ug/l	97
70) Styrene	12.04	104	128003	45.541	ug/l	99
71) Bromoform	12.20	173	26921	56.945	ug/l #	94
73) Isopropylbenzene	12.33	105	176586	43.682	ug/l	99
74) N-amyl acetate	12.14	43	16456	15.495	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.58	83	52360	65.747	ug/l	99
76) 1,2,3-Trichloropropane	12.63	75	46970m	72.933	ug/l	
77) Bromobenzene	12.61	156	46854	51.534	ug/l	92
78) n-propylbenzene	12.67	91	207804	42.186	ug/l	99
79) 2-Chlorotoluene	12.75	91	121981	44.841	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	146399	44.180	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	17440	57.756	ug/l	99
82) 4-Chlorotoluene	12.85	91	127357	45.074	ug/l	100
83) tert-Butylbenzene	13.07	119	117266	42.158	ug/l	97
84) 1,2,4-Trimethylbenzene	13.12	105	149679	44.951	ug/l	99
85) sec-Butylbenzene	13.25	105	161239	39.320	ug/l	98
86) p-Isopropyltoluene	13.37	119	141912	39.994	ug/l	98
87) 1,3-Dichlorobenzene	13.36	146	78452	44.928	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	81463	46.246	ug/l	99
89) n-Butylbenzene	13.69	91	127526	35.722	ug/l	99
90) Hexachloroethane	13.96	117	26609	39.803	ug/l	96
91) 1,2-Dichlorobenzene	13.73	146	79997	49.664	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.35	75	7967	59.794	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122619\
Data File : VY001079.D
Acq On : 26 Dec 2019 17:48
Operator : SY/MD
Sample : K6438-02MS
Misc : 5.24G/5ML/MSVOA Y/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
DUNR-BF001-01MS

Manual Integrations
APPROVED

apatel
12/27/2019 11:04:42 AM

Quant Time: Dec 27 06:31:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
Quant Title : SW846 8260
QLast Update : Mon Dec 23 12:07:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	41854	38.496	ug/l	99
94) Hexachlorobutadiene	15.11	225	15614	30.179	ug/l	98
95) Naphthalene	15.23	128	136756	53.486	ug/l	99
96) 1,2,3-Trichlorobenzene	15.42	180	39673	40.917	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122619\
 Data File : VY001079.D
 Acq On : 26 Dec 2019 17:48
 Operator : SY/MD
 Sample : K6438-02MS
 Misc : 5.24G/5ML/MSVOA Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DUNR-BF001-01MS

Manual Integrations
 APPROVED

apatel
 12/27/2019 11:04:42 AM

Quant Time: Dec 27 06:31:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

