

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081418\
 Data File : VF059964.D
 Acq On : 15 Aug 2018 1:09
 Operator : VA/AP
 Sample : J3762-02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Manual Integrations
 APPROVED

apatel
 8/16/2018 12:19:37 PM

Quant Time: Aug 15 12:03:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 15 09:20:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	128612	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.79	114	177908	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.94	117	180161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	116940	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	115486	51.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.72%	
35) Dibromofluoromethane	4.32	113	91779	51.48	ug/l	0.01
Spiked Amount	50.000		Recovery	=	102.96%	
50) Toluene-d8	7.73	98	193977	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	
62) 4-Bromofluorobenzene	11.53	95	110540	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	18107	9.50	ug/l	95
3) Chloromethane	1.09	50	8647	10.65	ug/l	97
4) Vinyl Chloride	1.17	62	8292	8.89	ug/l	95
5) Bromomethane	1.35	94	7298	8.69	ug/l	86
6) Chloroethane	1.44	64	5513	9.10	ug/l	96
7) Trichlorofluoromethane	1.54	101	22947	8.42	ug/l	91
8) Diethyl Ether	1.71	74	3972	10.60	ug/l	70
9) 1,1,2-Trichlorotrifluoroet	1.92	101	13212	9.61	ug/l	94
10) Methyl Iodide	1.97	142	21686	10.10	ug/l	91
11) Tert butyl alcohol	2.70	59	4451	49.83	ug/l	96
12) 1,1-Dichloroethene	1.87	96	9538	9.36	ug/l #	82
13) Acrolein	2.09	56	1708	46.63	ug/l #	63
14) Allyl chloride	2.20	41	14258	9.83	ug/l	96
15) Acrylonitrile	3.09	53	6537	48.27	ug/l #	85
16) Acetone	2.35	43	19898	44.58	ug/l	99
17) Carbon Disulfide	1.89	76	25169	9.64	ug/l	97
18) Methyl Acetate	2.47	43	6115	9.85	ug/l	95
19) Methyl tert-butyl Ether	2.55	73	27570	9.42	ug/l	96
20) Methylene Chloride	2.29	84	12865m	9.47	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	10020	10.11	ug/l	95
22) Diisopropyl ether	2.94	45	32642	9.79	ug/l	98
23) Vinyl Acetate	3.34	43	80958	48.90	ug/l #	95
24) 1,1-Dichloroethane	3.02	63	23953	10.16	ug/l	99
25) 2-Butanone	4.53	43	21608	47.87	ug/l	92
26) 1,2-Dichloropropane	3.79	77	14988	9.77	ug/l	96
27) cis-1,2-Dichloroethene	3.66	96	10645	9.72	ug/l	86
28) Bromochloromethane	3.91	49	8951	10.20	ug/l	98
29) Tetrahydrofuran	4.27	42	8022	51.74	ug/l	95
30) Chloroform	4.05	83	31404	9.70	ug/l	87
31) Cyclohexane	3.89	56	11748	9.97	ug/l	93
32) 1,1,1-Trichloroethane	4.29	97	24787	9.31	ug/l	96
36) 1,1-Dichloropropene	4.48	75	18489	9.35	ug/l	92
37) Ethyl Acetate	4.30	43	9383	11.10	ug/l #	82
38) Carbon Tetrachloride	4.19	117	31289	9.51	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	13938	9.70	µg/l	89
40) Benzene	4.83	78	32244	9.64	µg/l	99
41) Methacrylonitrile	4.93	41	4214	10.10	µg/l	95
42) 1,2-Dichloroethane	5.14	62	26422	9.94	µg/l #	86
43) Isopropyl Acetate	7.13	43	8154	8.84	µg/l #	89
44) Trichloroethene	5.69	130	13729	10.66	µg/l	100
45) 1,2-Dichloropropane	6.42	63	8783	9.93	µg/l	94
46) Dibromomethane	6.27	93	7878	9.02	µg/l #	85
47) Bromodichloromethane	6.57	83	24941	9.90	µg/l	97
48) Methyl methacrylate	6.89	41	6169	8.98	µg/l #	88
49) 1,4-Dioxane	6.88	88	1085	208.95	µg/l	92
51) 4-Methyl-2-Pentanone	8.43	43	44540	49.87	µg/l	100
52) Toluene	7.80	92	24884	10.04	µg/l	85
53) t-1,3-Dichloropropene	8.44	75	18663	9.06	µg/l	92
54) cis-1,3-Dichloropropene	7.47	75	18492	9.33	µg/l	96
55) 1,1,2-Trichloroethane	8.66	97	8576	10.13	µg/l	93
56) Ethyl methacrylate	8.78	69	7416	8.15	µg/l	96
57) 1,3-Dichloropropane	9.02	76	14371	9.21	µg/l	100
58) 2-Chloroethyl Vinyl ether	7.80	63	5446	44.50	µg/l	100
59) 2-Hexanone	9.65	43	31356	48.13	µg/l	94
60) Dibromochloromethane	8.87	129	15034	8.97	µg/l	99
61) 1,2-Dibromoethane	9.15	107	10570	10.01	µg/l	81
64) Tetrachloroethene	8.32	164	13965	9.96	µg/l	97
65) Chlorobenzene	9.96	112	34173	9.82	µg/l	100
66) 1,1,1,2-Tetrachloroethane	10.09	131	16736	9.95	µg/l	98
67) Ethyl Benzene	10.06	91	58837	9.57	µg/l	94
68) m/p-Xylenes	10.28	106	42233	20.43	µg/l	94
69) o-Xylene	10.85	106	21215	9.45	µg/l	94
70) Styrene	10.91	104	30999	9.33	µg/l	93
71) Bromoform	10.90	173	9469	9.06	µg/l	96
73) Isopropylbenzene	11.24	105	70352	9.57	µg/l	96
74) N-amyl acetate	11.48	43	15697	9.68	µg/l	96
75) 1,1,2,2-Tetrachloroethane	11.80	83	12319	9.96	µg/l	86
76) 1,2,3-Trichloropropane	11.90	75	10316	9.68	µg/l	94
77) Bromobenzene	11.60	156	18549	9.61	µg/l	92
78) n-propylbenzene	11.70	91	84218	9.76	µg/l	97
79) 2-Chlorotoluene	11.82	91	54712	10.12	µg/l	95
80) 1,3,5-Trimethylbenzene	11.92	105	65875	9.62	µg/l	98
81) trans-1,4-Dichloro-2-buten	11.97	75	2944	6.76	µg/l	94
82) 4-Chlorotoluene	12.00	91	53691	9.00	µg/l	99
83) tert-Butylbenzene	12.23	119	63740	9.45	µg/l	92
84) 1,2,4-Trimethylbenzene	12.30	105	68322	9.90	µg/l	99
85) sec-Butylbenzene	12.40	105	82760	9.63	µg/l	96
86) p-Isopropyltoluene	12.55	119	70562	9.32	µg/l	100
87) 1,3-Dichlorobenzene	12.57	146	36090	9.86	µg/l	94
88) 1,4-Dichlorobenzene	12.66	146	35645	9.89	µg/l	100
89) n-Butylbenzene	12.94	91	65851	9.03	µg/l	98
90) Hexachloroethane	13.00	117	18540	9.89	µg/l	69
91) 1,2-Dichlorobenzene	13.03	146	35114	9.89	µg/l	95
92) 1,2-Dibromo-3-Chloropropan	13.72	75	2963	8.85	µg/l	78

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	27761	9.76	µg/l	89
94) Hexachlorobutadiene	14.27	225	18004	8.85	µg/l	94
95) Naphthalene	14.53	128	40481	8.71	µg/l	98
96) 1,2,3-Trichlorobenzene	14.68	180	25280	9.31	µg/l	95

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

