

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122818\
 Data File : VF061235.D
 Acq On : 28 Dec 2018 14:51
 Operator : VA/AP
 Sample : J6515-03MSD
 Misc : 6.08g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S72-0050MSD

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 11:52:18 AM

Quant Time: Dec 29 02:02:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	191926	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.61	114	355252	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	259306	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	128403	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	103593	41.97	ug/l	0.02
Spiked Amount	50.000		Recovery	=	83.94%	
35) Dibromofluoromethane	4.13	113	116346	40.88	ug/l	0.02
Spiked Amount	50.000		Recovery	=	81.76%	
50) Toluene-d8	7.57	98	321545	39.87	ug/l	0.02
Spiked Amount	50.000		Recovery	=	79.74%	
62) 4-Bromofluorobenzene	11.42	95	142626	38.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	177865	41.690	ug/l	97
3) Chloromethane	1.10	50	131999	54.013	ug/l	90
4) Vinyl Chloride	1.15	62	120790	53.280	ug/l	91
5) Bromomethane	1.35	94	78445	49.887	ug/l	88
6) Chloroethane	1.41	64	55495	53.125	ug/l #	87
7) Trichlorofluoromethane	1.50	101	193824m	44.777	ug/l	
8) Diethyl Ether	1.63	74	35721	60.262	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.85	101	106743	47.560	ug/l	92
10) Methyl Iodide	1.92	142	175503m	49.608	ug/l	
11) Tert butyl alcohol	2.58	59	27945	280.533	ug/l	95
12) 1,1-Dichloroethene	1.81	96	89878	53.125	ug/l	90
13) Acrolein	2.01	56	31770	441.369	ug/l #	81
14) Allyl chloride	2.10	41	184247	104.649	ug/l #	70
15) Acrylonitrile	2.96	53	87606	380.323	ug/l	95
16) Acetone	2.25	43	184767m	374.416	ug/l	
17) Carbon Disulfide	1.85	76	249404m	48.781	ug/l	
18) Methyl Acetate	2.36	43	131481	128.781	ug/l	95
19) Methyl tert-butyl Ether	2.44	73	193990	51.658	ug/l #	90
20) Methylene Chloride	2.27	84	86206m	55.128	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	58662	32.419	ug/l	95
22) Diisopropyl ether	2.81	45	338452	57.711	ug/l	93
23) Vinyl Acetate	3.20	43	580373	214.516	ug/l	97
24) 1,1-Dichloroethane	2.88	63	179538	51.669	ug/l	99
25) 2-Butanone	4.35	43	220660	275.711	ug/l #	89
26) 2,2-Dichloropropane	3.62	77	79175	39.705	ug/l	92
27) cis-1,2-Dichloroethene	3.49	96	141495	51.078	ug/l	98
28) Bromochloromethane	3.73	49	79192	44.916	ug/l	94
29) Tetrahydrofuran	4.09	42	122671	376.588	ug/l #	65
30) Chloroform	3.87	83	259221	49.753	ug/l	90
31) Cyclohexane	3.76	56	398159	110.426	ug/l #	53
32) 1,1,1-Trichloroethane	4.11	97	112594	36.054	ug/l	93
36) 1,1-Dichloropropene	4.30	75	182620	42.587	ug/l	97
37) Ethyl Acetate	4.02	43	744091	Below Cal	#	10
38) Carbon Tetrachloride	4.01	117	109131	33.418	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	280318	72.866	ug/l	97
40) Benzene	4.65	78	396463	42.993	ug/l	96
41) Methacrylonitrile	4.69	41	482786	533.106	ug/l #	50
42) 1,2-Dichloroethane	4.96	62	150409	42.936	ug/l #	68
43) Isopropyl Acetate	6.97	43	187642	90.625	ug/l #	74
44) Trichloroethene	5.52	130	125716	43.241	ug/l	100
45) 1,2-Dichloropropane	6.25	63	112808	44.963	ug/l	99
46) Dibromomethane	6.10	93	67122	41.249	ug/l	97
47) Bromodichloromethane	6.40	83	167136	39.531	ug/l	97
48) Methyl methacrylate	6.72	41	117186m	81.072	ug/l	
49) 1,4-Dioxane	6.72	88	8675	827.124	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	505651	356.089	ug/l #	84
52) Toluene	7.64	92	272864	44.701	ug/l	98
53) t-1,3-Dichloropropene	8.29	75	138518	40.612	ug/l	95
54) cis-1,3-Dichloropropene	7.32	75	170608	39.855	ug/l #	87
55) 1,1,2-Trichloroethane	8.51	97	74385	40.648	ug/l #	86
56) Ethyl methacrylate	8.64	69	200486	101.247	ug/l	100
57) 1,3-Dichloropropane	8.86	76	131821	39.828	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.32	63	56498	148.560	ug/l	93
59) 2-Hexanone	9.51	43	224062	218.188	ug/l	99
60) Dibromochloromethane	8.74	129	108577	41.391	ug/l	94
61) 1,2-Dibromoethane	9.00	107	75070	38.411	ug/l	100
64) Tetrachloroethene	8.16	164	97013	48.635	ug/l	97
65) Chlorobenzene	9.81	112	257810	48.127	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.95	131	110196	50.338	ug/l	98
67) Ethyl Benzene	9.92	91	972400	99.638	ug/l	94
68) m/p-Xylenes	10.15	106	718829	209.295	ug/l	92
69) o-Xylene	10.73	106	184476	48.430	ug/l	92
70) Styrene	10.80	104	264965	57.852	ug/l	97
71) Bromoform	10.79	173	54198	53.513	ug/l #	98
73) Isopropylbenzene	11.13	105	773599	69.913	ug/l	98
74) N-amyl acetate	11.38	43	157332	64.043	ug/l #	84
75) 1,1,2,2-Tetrachloroethane	11.71	83	87701	47.756	ug/l	95
76) 1,2,3-Trichloropropane	11.80	75	89062	65.167	ug/l	94
77) Bromobenzene	11.51	156	117194	49.201	ug/l	89
78) n-propylbenzene	11.61	91	1716269	Below Cal		92
79) 2-Chlorotoluene	11.72	91	726236	95.674	ug/l #	60
80) 1,3,5-Trimethylbenzene	11.83	105	2072387	227.452	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.88	75	30183m	51.395	ug/l	
82) 4-Chlorotoluene	11.91	91	354576	45.155	ug/l	99
83) tert-Butylbenzene	12.14	119	424832	45.312	ug/l	98
84) 1,2,4-Trimethylbenzene	12.22	105	3458071	380.596	ug/l	88
85) sec-Butylbenzene	12.32	105	754093	61.632	ug/l	85
86) p-Isopropyltoluene	12.47	119	861019	84.779	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	203818	52.725	ug/l	96
88) 1,4-Dichlorobenzene	12.57	146	204900	46.847	ug/l	96
89) n-Butylbenzene	12.85	91	911616	Below Cal	#	64
90) Hexachloroethane	12.93	117	112223	44.725	ug/l	93
91) 1,2-Dichlorobenzene	12.95	146	196643	46.179	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	18525	54.971	ug/l	74

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	103783	34.366	ug/l	97
94) Hexachlorobutadiene	14.20	225	38969	20.260	ug/l	97
95) Naphthalene	14.47	128	659270	119.551	ug/l	97
96) 1,2,3-Trichlorobenzene	14.62	180	99458	35.625	ug/l	97

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

