

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052119\
 Data File : VF062680.D
 Acq On : 21 May 2019 13:54
 Operator : FY/SY
 Sample : K2970-02
 Misc : 3.10g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-11-S2

Quant Time: May 22 03:55:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	159	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	175	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.97	117	217	50.00	ug/l	0.05
72) 1,4-Dichlorobenzene-d4	12.76	152	248	50.00	ug/l	0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	319	283.92	ug/l	-0.03
Spiked Amount			Recovery	=	567.84%	
35) Dibromofluoromethane	4.33	113	160	119.48	ug/l	0.00
Spiked Amount			Recovery	=	238.96%	
50) Toluene-d8	7.69	98	234	73.19	ug/l	-0.03
Spiked Amount			Recovery	=	146.38%	
62) 4-Bromofluorobenzene	11.47	95	83	68.45	ug/l	-0.03
Spiked Amount			Recovery	=	136.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.05	85	271	125.246	ug/l	73
3) Chloromethane	1.13	50	663	332.773	ug/l #	40
4) Vinyl Chloride	1.18	62	292	159.220	ug/l #	41
5) Bromomethane	1.44	94	348	346.862	ug/l	97
6) Chloroethane	1.29	64	687	1019.980	ug/l	92
7) Trichlorofluoromethane	1.56	101	121	49.138	ug/l	87
8) Diethyl Ether	1.72	74	817	1674.770	ug/l	66
9) 1,1,2-Trichlorotrifluoroet	1.89	101	175	111.609	ug/l #	19
10) Methyl Iodide	1.96	142	70	22.726	ug/l #	1
11) Tert butyl alcohol	2.70	59	501	6753.916	ug/l #	1
12) 1,1-Dichloroethene	1.90	96	1153	807.231	ug/l #	1
13) Acrolein	2.12	56	456	5889.000	ug/l	94
14) Allyl chloride	2.19	41	1058	818.424	ug/l #	65
15) Acrylonitrile	3.09	53	587	2805.304	ug/l #	14
16) Acetone	2.37	43	1092	3746.258	ug/l #	61
17) Carbon Disulfide	1.94	76	471	111.254	ug/l #	1
18) Methyl Acetate	2.48	43	567	1237.832	ug/l #	52
19) Methyl tert-butyl Ether	2.50	73	862	337.592	ug/l	99
20) Methylene Chloride	2.36	84	308	210.803	ug/l #	62
21) trans-1,2-Dichloroethene	2.43	96	428	306.571	ug/l #	1
22) Diisopropyl ether	2.97	45	611	191.635	ug/l #	26
23) Vinyl Acetate	3.39	43	1143	531.434	ug/l #	73
24) 1,1-Dichloroethane	3.02	63	163	69.688	ug/l #	1
25) 2-Butanone	4.52	43	256	411.068	ug/l #	50
26) 2,2-Dichloropropane	3.78	77	643	480.467	ug/l #	60
27) cis-1,2-Dichloroethene	3.65	96	1114	485.100	ug/l	15
28) Bromochloromethane	3.86	49	70	53.361	ug/l	95
29) Tetrahydrofuran	4.24	42	519	2059.418	ug/l #	54
30) Chloroform	3.96	83	319	98.231	ug/l	98
31) Cyclohexane	3.86	56	884	281.479	ug/l #	7
32) 1,1,1-Trichloroethane	4.33	97	203	94.125	ug/l #	23
36) 1,1-Dichloropropene	4.33	75	354	197.411	ug/l	90
37) Ethyl Acetate	4.33	43	571	779.873	ug/l #	6
38) Carbon Tetrachloride	4.19	117	553	410.045	ug/l #	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.66	83	337	156.186	ug/l #	54
40) Benzene	4.81	78	445	91.092	ug/l #	53
41) Methacrylonitrile	4.91	41	1512	3938.971	ug/l #	52
42) 1,2-Dichloroethane	5.14	62	210	215.565	ug/l	71
43) Isopropyl Acetate	7.09	43	1383	1458.008	ug/l #	43
44) Trichloroethene	5.65	130	263	191.551	ug/l	85
45) 1,2-Dichloropropane	6.40	63	374	303.277	ug/l #	5
46) Dibromomethane	6.27	93	137	192.228	ug/l #	41
47) Bromodichloromethane	6.54	83	489	330.503	ug/l #	72
48) Methyl methacrylate	6.84	41	373	752.330	ug/l	86
49) 1,4-Dioxane	6.85	88	154	24251.656	ug/l #	1
51) 4-Methyl-2-Pentanone	8.46	43	556	857.531	ug/l	87
52) Toluene	7.80	92	137	53.473	ug/l	99
53) t-1,3-Dichloropropene	8.45	75	219	180.923	ug/l #	44
54) cis-1,3-Dichloropropene	7.40	75	550	324.591	ug/l #	1
55) 1,1,2-Trichloroethane	8.61	97	65	85.687	ug/l #	15
56) Ethyl methacrylate	8.74	69	202	223.513	ug/l #	19
57) 1,3-Dichloropropane	8.96	76	374	289.454	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.42	63	150	509.906	ug/l #	51
59) 2-Hexanone	9.76	43	1206	3059.210	ug/l	78
60) Dibromochloromethane	8.89	129	98	99.123	ug/l #	12
61) 1,2-Dibromoethane	9.12	107	71	88.119	ug/l #	3
64) Tetrachloroethene	8.31	164	60	34.901	ug/l #	14
65) Chlorobenzene	9.92	112	294	68.980	ug/l #	41
66) 1,1,1,2-Tetrachloroethane	10.06	131	84	49.094	ug/l #	53
67) Ethyl Benzene	10.05	91	374	50.512	ug/l #	42
68) m/p-Xylenes	10.28	106	153	54.980	ug/l #	1
69) o-Xylene	10.81	106	79	27.561	ug/l #	1
70) Styrene	10.89	104	155	35.578	ug/l #	1
71) Bromoform	10.88	173	144	168.041	ug/l #	27
73) Isopropylbenzene	11.22	105	526	29.593	ug/l #	45
74) N-amyl acetate	11.46	43	1807	441.849	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	11.75	83	106	29.181	ug/l #	87
76) 1,2,3-Trichloropropane	11.98	75	356	149.156	ug/l	90
77) Bromobenzene	11.56	156	83	18.786	ug/l #	51
78) n-propylbenzene	11.69	91	343	16.306	ug/l #	50
79) 2-Chlorotoluene	11.81	91	518	43.695	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.89	105	167	11.717	ug/l	87
81) trans-1,4-Dichloro-2-buten	11.98	75	356	335.554	ug/l #	26
82) 4-Chlorotoluene	11.96	91	606	51.837	ug/l #	68
83) tert-Butylbenzene	12.20	119	567	39.212	ug/l #	18
84) 1,2,4-Trimethylbenzene	12.21	105	86	6.234	ug/l #	25
85) sec-Butylbenzene	12.39	105	282	14.532	ug/l #	54
86) p-Isopropyltoluene	12.51	119	386	23.603	ug/l #	1
87) 1,3-Dichlorobenzene	12.53	146	71	8.882	ug/l #	23
88) 1,4-Dichlorobenzene	12.65	146	143	19.063	ug/l #	24
89) n-Butylbenzene	12.89	91	73	4.527	ug/l #	25
90) Hexachloroethane	12.95	117	88	22.431	ug/l #	20
91) 1,2-Dichlorobenzene	12.99	146	74	10.386	ug/l #	23
92) 1,2-Dibromo-3-Chloropropan	13.69	75	374	863.063	ug/l #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	71	13.921	ug/l #	1
94) Hexachlorobutadiene	14.21	225	108	30.343	ug/l #	58
95) Naphthalene	14.48	128	148	15.973	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.64	180	176	36.431	ug/l #	11

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

