

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061363.D
 Acq On : 11 Jan 2019 12:50
 Operator : VA/AP
 Sample : VF0111SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0111SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/14/2019 1:16:38 PM

Quant Time: Jan 12 03:44:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	177571	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	309091	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	297226	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.53	152	146440	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	110873	56.10	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	112.20%	
35) Dibromofluoromethane	4.09	113	131313	55.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	111.04%	
50) Toluene-d8	7.53	98	366360	52.35	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	104.70%	
62) 4-Bromofluorobenzene	11.39	95	164340	53.77	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	107.54%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.95	85	68742	20.987	ug/l	99
3) Chloromethane	1.08	50	57650	19.751	ug/l	90
4) Vinyl Chloride	1.13	62	47006	18.031	ug/l	96
5) Bromomethane	1.30	94	33702	17.303	ug/l	94
6) Chloroethane	1.37	64	19673	15.454	ug/l #	84
7) Trichlorofluoromethane	1.46	101	92008	20.819	ug/l	98
8) Diethyl Ether	1.62	74	10289	15.855	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.81	101	45451	19.477	ug/l	95
10) Methyl Iodide	1.88	142	65572m	17.936	ug/l	
11) Tert butyl alcohol	2.56	59	6211	78.487	ug/l #	80
12) 1,1-Dichloroethene	1.77	96	35373	18.957	ug/l	94
13) Acrolein	1.99	56	7130	67.375	ug/l	87
14) Allyl chloride	2.09	41	59147	17.341	ug/l	89
15) Acrylonitrile	2.93	53	21283	75.867	ug/l	98
16) Acetone	2.23	43	49268	107.157	ug/l #	86
17) Carbon Disulfide	1.79	76	109145	17.709	ug/l	100
18) Methyl Acetate	2.34	43	16571	18.319	ug/l #	89
19) Methyl tert-butyl Ether	2.41	73	62621	17.611	ug/l	98
20) Methylene Chloride	2.17	84	37015m	19.030	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	36114	18.264	ug/l	94
22) Diisopropyl ether	2.79	45	114826	17.402	ug/l	99
23) Vinyl Acetate	3.17	43	184519	95.619	ug/l	97
24) 1,1-Dichloroethane	2.86	63	73019	19.130	ug/l	97
25) 2-Butanone	4.31	43	71984	97.275	ug/l	97
26) 2,2-Dichloropropane	3.59	77	44966	17.629	ug/l	95
27) cis-1,2-Dichloroethene	3.46	96	48339	17.510	ug/l	98
28) Bromochloromethane	3.70	49	37708	22.406	ug/l #	96
29) Tetrahydrofuran	4.06	42	30188	97.569	ug/l	97
30) Chloroform	3.84	83	100049	20.648	ug/l	95
31) Cyclohexane	3.69	56	82207	20.529	ug/l	98
32) 1,1,1-Trichloroethane	4.08	97	75957	19.407	ug/l	91
36) 1,1-Dichloropropene	4.26	75	71664	19.855	ug/l	97
37) Ethyl Acetate	4.09	43	25328	19.269	ug/l #	79
38) Carbon Tetrachloride	3.97	117	67024	19.606	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	83625	18.516	ug/l	98
40) Benzene	4.61	78	170609	20.246	ug/l	99
41) Methacrylonitrile	4.72	41	15240	20.762	ug/l	96
42) 1,2-Dichloroethane	4.92	62	55748	21.249	ug/l	99
43) Isopropyl Acetate	6.94	43	34627	19.954	ug/l #	96
44) Trichloroethene	5.48	130	53357	21.636	ug/l	94
45) 1,2-Dichloropropane	6.21	63	41075	19.168	ug/l	99
46) Dibromomethane	6.06	93	25974	19.741	ug/l	94
47) Bromodichloromethane	6.36	83	72722	22.224	ug/l	95
48) Methyl methacrylate	6.70	41	20772	18.441	ug/l	96
49) 1,4-Dioxane	6.70	88	2779	390.999	ug/l	88
51) 4-Methyl-2-Pentanone	8.23	43	127888	97.637	ug/l	100
52) Toluene	7.60	92	109632	20.241	ug/l	98
53) t-1,3-Dichloropropene	8.25	75	56378	21.939	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	72811	21.369	ug/l	98
55) 1,1,2-Trichloroethane	8.47	97	30745	20.285	ug/l	96
56) Ethyl methacrylate	8.60	69	32781	19.352	ug/l	93
57) 1,3-Dichloropropane	8.84	76	57749	21.529	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.28	63	6102	84.530	ug/l	99
59) 2-Hexanone	9.48	43	98385	106.024	ug/l	100
60) Dibromochloromethane	8.70	129	43922	21.763	ug/l	91
61) 1,2-Dibromoethane	8.96	107	30770	19.916	ug/l	98
64) Tetrachloroethene	8.14	164	46254	21.374	ug/l	96
65) Chlorobenzene	9.78	112	122818	20.463	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	50029	20.428	ug/l	99
67) Ethyl Benzene	9.88	91	240289	20.764	ug/l	93
68) m/p-Xylenes	10.11	106	162825	40.336	ug/l	98
69) o-Xylene	10.70	106	92407	20.493	ug/l	98
70) Styrene	10.77	104	128479	21.388	ug/l	97
71) Bromoform	10.76	173	19763	19.745	ug/l	94
73) Isopropylbenzene	11.10	105	273450	21.221	ug/l	99
74) N-amyl acetate	11.36	43	56325	19.229	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	41189	20.160	ug/l	99
76) 1,2,3-Trichloropropane	11.78	75	30015	20.030	ug/l	96
77) Bromobenzene	11.48	156	55066	21.480	ug/l	93
78) n-propylbenzene	11.58	91	318701	20.743	ug/l	99
79) 2-Chlorotoluene	11.71	91	178676	20.874	ug/l	100
80) 1,3,5-Trimethylbenzene	11.80	105	219218	21.380	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.85	75	13284m	20.286	ug/l	
82) 4-Chlorotoluene	11.88	91	178443	20.515	ug/l	97
83) tert-Butylbenzene	12.12	119	219212	21.459	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	214046	21.026	ug/l	95
85) sec-Butylbenzene	12.29	105	292647	20.120	ug/l	96
86) p-Isopropyltoluene	12.45	119	245805	20.777	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	103274	20.629	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	101649	21.120	ug/l	96
89) n-Butylbenzene	12.83	91	264026	21.720	ug/l	95
90) Hexachloroethane	12.90	117	57878	21.387	ug/l	91
91) 1,2-Dichlorobenzene	12.93	146	98426	20.598	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7335	21.248	ug/l	73

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	67704	20.589	ug/l	99
94) Hexachlorobutadiene	14.18	225	42822	20.228	ug/l	96
95) Naphthalene	14.45	128	109104	17.606	ug/l	97
96) 1,2,3-Trichlorobenzene	14.59	180	58150	18.773	ug/l	97

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

