

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122818\
 Data File : VF061236.D
 Acq On : 28 Dec 2018 15:20
 Operator : VA/AP
 Sample : VF1228SBS02
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1228SBS02

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 11:52:32 AM

Quant Time: Dec 31 22:58:59 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	4.88	168	219009	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	369419	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	349193	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	163876	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	129923	46.12	ug/l	0.02
Spiked Amount 50.000			Recovery	=	92.24%	
35) Dibromofluoromethane	4.13	113	147383	49.80	ug/l	0.02
Spiked Amount 50.000			Recovery	=	99.60%	
50) Toluene-d8	7.56	98	409281	48.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.42	95	186150	48.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.30%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	75413	15.490	ug/l	93
3) Chloromethane	1.10	50	48763	17.486	ug/l	97
4) Vinyl Chloride	1.15	62	47282	18.277	ug/l	93
5) Bromomethane	1.36	94	37839	21.088	ug/l	98
6) Chloroethane	1.40	64	25092	21.050	ug/l	91
7) Trichlorofluoromethane	1.49	101	88593m	17.936	ug/l	
8) Diethyl Ether	1.63	74	13555	20.040	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.86	101	49242	19.227	ug/l #	90
10) Methyl Iodide	1.92	142	83291m	20.632	ug/l	
11) Tert butyl alcohol	2.59	59	11109	97.730	ug/l #	89
12) 1,1-Dichloroethene	1.80	96	37352	19.348	ug/l	93
13) Acrolein	2.01	56	7852	95.595	ug/l	88
14) Allyl chloride	2.10	41	40326	20.072	ug/l	92
15) Acrylonitrile	2.95	53	29776	113.281	ug/l	94
16) Acetone	2.24	43	49915	88.641	ug/l	100
17) Carbon Disulfide	1.86	76	112872m	19.347	ug/l	
18) Methyl Acetate	2.35	43	22547	19.353	ug/l	99
19) Methyl tert-butyl Ether	2.44	73	95132	22.200	ug/l	98
20) Methylene Chloride	2.26	84	42942m	21.284	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	39764m	19.258	ug/l	
22) Diisopropyl ether	2.81	45	154326	23.061	ug/l	94
23) Vinyl Acetate	3.20	43	347598	112.590	ug/l	100
24) 1,1-Dichloroethane	2.88	63	85104	21.463	ug/l	99
25) 2-Butanone	4.35	43	101035	110.630	ug/l	96
26) 2,2-Dichloropropane	3.62	77	45739	20.101	ug/l	98
27) cis-1,2-Dichloroethene	3.49	96	67371	21.312	ug/l	98
28) Bromochloromethane	3.73	49	43135	21.440	ug/l	94
29) Tetrahydrofuran	4.09	42	44417	119.494	ug/l	96
30) Chloroform	3.87	83	121164	20.379	ug/l	93
31) Cyclohexane	3.70	56	91633m	22.271	ug/l	
32) 1,1,1-Trichloroethane	4.11	97	66878	18.767	ug/l	93
36) 1,1-Dichloropropene	4.29	75	86724	19.449	ug/l	97
37) Ethyl Acetate	4.12	43	37794	19.626	ug/l	88
38) Carbon Tetrachloride	4.00	117	65237	19.211	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.47	83	89884	22.469	ug/l	97
40) Benzene	4.64	78	223546	23.312	ug/l	98
41) Methacrylonitrile	4.77	41	21155	22.464	ug/l	95
42) 1,2-Dichloroethane	4.96	62	70441	19.337	ug/l	99
43) Isopropyl Acetate	6.98	43	50531	23.469	ug/l #	97
44) Trichloroethene	5.52	130	68644	22.705	ug/l	98
45) 1,2-Dichloropropane	6.25	63	56047	21.483	ug/l	97
46) Dibromomethane	6.10	93	34640	20.471	ug/l	98
47) Bromodichloromethane	6.40	83	87535	19.910	ug/l	99
48) Methyl methacrylate	6.73	41	32247	21.454	ug/l	99
49) 1,4-Dioxane	6.72	88	4204	385.462	ug/l #	88
51) 4-Methyl-2-Pentanone	8.27	43	167040	113.122	ug/l	99
52) Toluene	7.64	92	137906	21.725	ug/l	95
53) t-1,3-Dichloropropene	8.29	75	72592	20.467	ug/l	95
54) cis-1,3-Dichloropropene	7.31	75	94660	21.265	ug/l	98
55) 1,1,2-Trichloroethane	8.51	97	41350	21.730	ug/l	91
56) Ethyl methacrylate	8.64	69	48260	23.437	ug/l	96
57) 1,3-Dichloropropane	8.86	76	75590	21.963	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.30	63	29121	73.636	ug/l	97
59) 2-Hexanone	9.50	43	122647	114.852	ug/l	97
60) Dibromochloromethane	8.74	129	52880	19.386	ug/l	94
61) 1,2-Dibromoethane	9.00	107	43030	21.173	ug/l	100
64) Tetrachloroethene	8.16	164	55979	20.840	ug/l	96
65) Chlorobenzene	9.81	112	154298	21.389	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.95	131	61530	20.872	ug/l	94
67) Ethyl Benzene	9.91	91	293945	22.366	ug/l	99
68) m/p-Xylenes	10.15	106	198518	42.922	ug/l	96
69) o-Xylene	10.73	106	110698	21.580	ug/l	96
70) Styrene	10.80	104	147324	20.709	ug/l	100
71) Bromoform	10.79	173	27934	20.481	ug/l	96
73) Isopropylbenzene	11.13	105	322005	22.802	ug/l	98
74) N-amyl acetate	11.38	43	83530	26.642	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	53866	22.982	ug/l	96
76) 1,2,3-Trichloropropane	11.80	75	39830	22.835	ug/l	98
77) Bromobenzene	11.51	156	63898	21.019	ug/l	89
78) n-propylbenzene	11.61	91	375917	20.543	ug/l	100
79) 2-Chlorotoluene	11.72	91	214155	22.106	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	258264	22.210	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.88	75	16067m	21.436	ug/l	
82) 4-Chlorotoluene	11.91	91	209276	20.882	ug/l	99
83) tert-Butylbenzene	12.14	119	259494	21.686	ug/l	99
84) 1,2,4-Trimethylbenzene	12.22	105	248873	21.462	ug/l	99
85) sec-Butylbenzene	12.32	105	332292	21.279	ug/l	99
86) p-Isopropyltoluene	12.46	119	277921	21.442	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	120067	21.091	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	121782	21.816	ug/l	98
89) n-Butylbenzene	12.85	91	289047	19.420	ug/l	95
90) Hexachloroethane	12.93	117	65368	20.412	ug/l	84
91) 1,2-Dichlorobenzene	12.95	146	112840	20.763	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.66	75	7933	18.445	ug/l	73

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	80394	20.858	µg/l	95
94) Hexachlorobutadiene	14.20	225	46898	19.104	µg/l	95
95) Naphthalene	14.47	128	162539	23.094	µg/l	97
96) 1,2,3-Trichlorobenzene	14.61	180	74814	20.997	µg/l	97

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

