

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062118.D
 Acq On : 23 Mar 2019 15:39
 Operator : VA/AP
 Sample : K2045-03MSD
 Misc : 5.82g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 12:40:38 PM

Quant Time: Mar 25 04:11:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	57399	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	69956	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	43898	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	17767	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	10830	25.37	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	50.74%	
35) Dibromofluoromethane	4.11	113	21018	44.41	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	88.82%	
50) Toluene-d8	7.55	98	70526	49.93	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.41	95	18493	33.91	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	67.82%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.97	85	51703	70.313	ug/l	96
3) Chloromethane	1.09	50	38000	49.388	ug/l	97
4) Vinyl Chloride	1.14	62	45733	64.260	ug/l	94
5) Bromomethane	1.31	94	29996	58.633	ug/l	95
6) Chloroethane	1.38	64	21536	60.112	ug/l	98
7) Trichlorofluoromethane	1.47	101	67655	78.712	ug/l	92
8) Diethyl Ether	1.64	74	3932	20.026	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	42418	72.338	ug/l	93
10) Methyl Iodide	1.85	142	50939m	45.713	ug/l	
11) Tert butyl alcohol	2.57	59	1742	74.156	ug/l #	28
12) 1,1-Dichloroethene	1.76	96	34226	61.860	ug/l	92
13) Acrolein	2.01	56	2825	100.007	ug/l #	84
14) Allyl chloride	2.10	41	36015	60.969	ug/l	93
15) Acrylonitrile	2.94	53	6337	76.714	ug/l #	71
16) Acetone	2.25	43	12789	142.328	ug/l #	86
17) Carbon Disulfide	1.77	76	110604	65.556	ug/l	100
18) Methyl Acetate	2.35	43	5059	23.602	ug/l #	82
19) Methyl tert-butyl Ether	2.44	73	16347	18.694	ug/l #	91
20) Methylene Chloride	2.18	84	19410	34.961	ug/l #	91
21) trans-1,2-Dichloroethene	2.31	96	30496	57.286	ug/l	92
22) Diisopropyl ether	2.80	45	40560	26.189	ug/l #	98
23) Vinyl Acetate	3.20	43	38615	60.897	ug/l	97
24) 1,1-Dichloroethane	2.87	63	43392	46.720	ug/l	97
25) 2-Butanone	4.38	43	25533	136.114	ug/l #	65
26) 2,2-Dichloropropane	3.60	77	32933	87.455	ug/l	97
27) cis-1,2-Dichloroethene	3.47	96	26875	38.098	ug/l	95
28) Bromochloromethane	3.73	49	9755	25.707	ug/l	86
29) Tetrahydrofuran	4.08	42	6597	80.886	ug/l #	84
30) Chloroform	3.87	83	38977	39.710	ug/l	98
31) Cyclohexane	3.70	56	60174	62.035	ug/l	89
32) 1,1,1-Trichloroethane	4.10	97	45785	76.683	ug/l	96
36) 1,1-Dichloropropene	4.29	75	48911	73.403	ug/l	95
37) Ethyl Acetate	4.12	43	6703	23.018	ug/l #	1
38) Carbon Tetrachloride	4.00	117	45206	99.540	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	56939	73.627	ug/l	94
40) Benzene	4.64	78	94306	52.794	ug/l	98
41) Methacrylonitrile	4.75	41	3051	19.801	ug/l #	76
42) 1,2-Dichloroethane	4.94	62	12767	30.224	ug/l	93
43) Isopropyl Acetate	6.96	43	5687	16.126	ug/l #	86
44) Trichloroethene	5.50	130	33091	60.592	ug/l	97
45) 1,2-Dichloropropane	6.23	63	16241	38.120	ug/l	97
46) Dibromomethane	6.08	93	5981	22.960	ug/l #	83
47) Bromodichloromethane	6.38	83	21036	36.457	ug/l #	82
48) Methyl methacrylate	6.72	41	3962	19.731	ug/l #	79
49) 1,4-Dioxane	6.71	88	577	327.482	ug/l #	87
51) 4-Methyl-2-Pentanone	8.26	43	17503	74.152	ug/l	99
52) Toluene	7.62	92	58108	56.163	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	12103	26.720	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	20089	30.996	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	7107	24.183	ug/l	88
56) Ethyl methacrylate	8.62	69	6416	18.306	ug/l	96
57) 1,3-Dichloropropane	8.86	76	12494	25.615	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	2672	50.240	ug/l	92
59) 2-Hexanone	9.50	43	9640	55.723	ug/l	92
60) Dibromochloromethane	8.72	129	11025	26.986	ug/l	95
61) 1,2-Dibromoethane	8.99	107	6548	20.884	ug/l	86
64) Tetrachloroethene	8.16	164	27928	82.348	ug/l	95
65) Chlorobenzene	9.80	112	50629	61.640	ug/l	93
66) 1,1,1,2-Tetrachloroethane	9.93	131	18053	54.718	ug/l	90
67) Ethyl Benzene	9.90	91	108006	75.612	ug/l	97
68) m/p-Xylenes	10.14	106	75369	141.171	ug/l	96
69) o-Xylene	10.71	106	34426	61.567	ug/l	97
70) Styrene	10.79	104	40743	48.090	ug/l	97
71) Bromoform	10.77	173	4425	26.222	ug/l	97
73) Isopropylbenzene	11.12	105	122138	97.695	ug/l	99
74) N-amyl acetate	11.41	43	490	1.645	ug/l #	6
75) 1,1,2,2-Tetrachloroethane	11.70	83	8709	40.571	ug/l	96
76) 1,2,3-Trichloropropane	11.79	75	5690	37.665	ug/l	97
77) Bromobenzene	11.50	156	17503	57.304	ug/l	91
78) n-propylbenzene	11.60	91	139811	96.308	ug/l	97
79) 2-Chlorotoluene	11.72	91	63533	78.738	ug/l	92
80) 1,3,5-Trimethylbenzene	11.82	105	81527	79.280	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	1579m	25.651	ug/l	
82) 4-Chlorotoluene	11.90	91	57870	69.948	ug/l	96
83) tert-Butylbenzene	12.13	119	95353	88.578	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	71914	71.336	ug/l	100
85) sec-Butylbenzene	12.31	105	120441	86.486	ug/l	97
86) p-Isopropyltoluene	12.46	119	100550	83.339	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	36249	63.878	ug/l	91
88) 1,4-Dichlorobenzene	12.56	146	33872	61.169	ug/l	99
89) n-Butylbenzene	12.85	91	86164	74.854	ug/l	96
90) Hexachloroethane	12.92	117	22185	77.222	ug/l	91
91) 1,2-Dichlorobenzene	12.94	146	29863	56.043	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	922	28.347	ug/l	77

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	8794	23.680	ug/l	97
94) Hexachlorobutadiene	14.19	225	9970	40.376	ug/l	96
95) Naphthalene	14.46	128	6376	9.797	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.60	180	5741	16.515	ug/l	95

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

