

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120618\
 Data File : VV008870.D
 Acq On : 06 Dec 2018 22:11
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.00g/10.0 mL/MSVOA_V/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

sam
 12/11/2018 4:26:03 PM

Quant Time: Dec 07 15:53:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 07 01:37:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	198698	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	179964	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	73438	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	50094	24.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.44%
7) Chloroethane-d5	1.58	69	38868	25.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.36%
10) 1,1-Dichloroethene-d2	2.13	63	96598	18.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.16%
20) 2-Butanone-d5	3.93	46	42992	57.43	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.86%
24) Chloroform-d	4.40	84	110087	23.05	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.20%
26) 1,2-Dichloroethane-d4	5.08	65	66379	25.46	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.84%
29) Benzene-d6	5.10	84	232333	23.11	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.44%
33) 1,2-Dichloropropane-d6	6.12	67	67057	23.83	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.32%
37) Toluene-d8	7.36	98	209689	22.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.16%
38) trans-1,3-Dichloropropene-	7.67	79	28223	22.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.32%
39) 2-Hexanone-d5	8.14	63	26563	51.53	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.06%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	57166	24.22	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.88%
61) 1,2-Dichlorobenzene-d4	11.68	152	67266	24.41	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.64%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	3766	1.156 ug/L	97
3) Chloromethane	1.25	50	2304	1.029 ug/L	84
5) Vinyl chloride	1.32	62	2354	0.942 ug/L #	47
6) Bromomethane	1.53	94	1457	1.213 ug/L	90
8) Chloroethane	1.60	64	1805	1.290 ug/L	87
9) Trichlorofluoromethane	1.77	101	5011	1.171 ug/L	94
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3558	1.212 ug/L #	88
12) 1,1-Dichloroethene	2.14	96	3163	1.235 ug/L #	1
13) Acetone	2.19	43	3530	3.200 ug/L	90
14) Carbon disulfide	2.32	76	7339	0.892 ug/L	99
15) Methyl Acetate	2.46	43	1506	1.077 ug/L #	90
16) Methylene chloride	2.53	84	8066	2.411 ug/L	93
17) Methyl tert-butyl Ether	2.80	73	5822	1.001 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	2511	0.907 ug/L	85
19) 1,1-Dichloroethane	3.23	63	4286	0.955 ug/L	91
21) 2-Butanone	4.03	43	1065m	1.030 ug/L	
22) cis-1,2-Dichloroethene	3.96	96	2764	0.958 ug/L	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.31	128	1272	0.935	ug/L	96
25) Chloroform	4.42	83	6702	1.392	ug/L	77
27) 1,2-Dichloroethane	5.18	62	3499	1.067	ug/L	97
30) Cyclohexane	4.72	56	4054m	0.895	ug/L	
31) 1,1,1-Trichloroethane	4.66	97	4195	0.904	ug/L #	90
32) Carbon tetrachloride	4.88	117	3496	0.825	ug/L	94
34) Benzene	5.15	78	9944	0.922	ug/L	100
35) Trichloroethene	5.96	95	3241	0.997	ug/L	96
36) Methylcyclohexane	6.18	83	4628	0.893	ug/L #	87
40) 1,2-Dichloropropane	6.23	63	2399	0.927	ug/L #	93
41) Bromodichloromethane	6.55	83	2908	0.853	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	3588	0.947	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	4508	2.577	ug/L	90
44) Toluene	7.43	91	11039	0.976	ug/L	94
45) trans-1,3-Dichloropropene	7.69	75	2972	0.900	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	2051	0.951	ug/L	88
47) Tetrachloroethene	8.02	164	2505	0.948	ug/L	87
49) 2-Hexanone	8.19	43	3840	2.654	ug/L #	82
50) Dibromochloromethane	8.29	129	2024	0.819	ug/L	86
51) 1,2-Dibromoethane	8.40	107	2001	0.924	ug/L #	98
52) Chlorobenzene	8.93	112	6947	0.944	ug/L	93
53) Ethylbenzene	9.06	91	10218	0.833	ug/L	90
54) m,p-Xylene	9.18	106	3740	0.805	ug/L	95
55) o-xylene	9.59	106	3843	0.891	ug/L	82
56) Styrene	9.61	104	5617	0.807	ug/L	95
57) Isopropylbenzene	9.98	105	9145	0.780	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	2693	1.155	ug/L #	97
59) 1,2,3-Trichloropropane	10.32	75	2107	1.045	ug/L	96
62) Bromoform	9.78	173	1131	0.853	ug/L #	96
63) 1,3-Dichlorobenzene	11.23	146	4687	0.990	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	5063	1.040	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	4561	1.046	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	361m	1.010	ug/L	
67) 1,3,5-Trichlorobenzene	12.69	180	2835	0.829	ug/L	96
68) 1,2,4-trichlorobenzene	13.31	180	1726	0.721	ug/L	93
69) Naphthalene	13.56	128	2724	0.660	ug/L #	74
70) 1,2,3-Trichlorobenzene	13.80	180	1653	0.747	ug/L #	94

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

