

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100219\
 Data File : VV013029.D
 Acq On : 02 Oct 2019 12:45
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:10:51 PM

Quant Time: Oct 03 04:18:02 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M

Quant Title : VOC Analysis

QLast Update : Thu Oct 03 03:55:32 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	674996	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	687059	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	352657	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	206755	21.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.64%
7) Chloroethane-d5	1.58	69	182830	22.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.32%
11) 1,1-Dichloroethene-d2	2.13	63	287053	17.26	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	69.04%
21) 2-Butanone-d5	3.95	46	185105	54.29	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.58%
24) Chloroform-d	4.40	84	421458	23.18	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.72%
26) 1,2-Dichloroethane-d4	5.08	65	255556	24.70	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.10	84	862505	22.76	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.04%
36) 1,2-Dichloropropane-d6	6.12	67	283194	23.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.36%
41) Toluene-d8	7.36	98	768904	22.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.88%
43) trans-1,3-Dichloropropene-	7.66	79	109847	22.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	88.12%
47) 2-Hexanone-d5	8.14	63	125060	49.93	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.86%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	268626	24.17	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.68%
66) 1,2-Dichlorobenzene-d4	11.67	152	320164	23.54	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.16%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	11562	1.599 ug/L	100
3) Chloromethane	1.25	50	17804	1.934 ug/L	95
5) Vinyl chloride	1.32	62	18268	1.926 ug/L #	80
6) Bromomethane	1.53	94	13357	2.192 ug/L	95
8) Chloroethane	1.60	64	12204	2.035 ug/L	99
9) Trichlorofluoromethane	1.77	101	27507	2.141 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	19235	2.335 ug/L	88
12) 1,1-Dichloroethene	2.14	96	17327	2.240 ug/L #	1
13) Acetone	2.21	43	17851	4.967 ug/L	100
14) Carbon disulfide	2.32	76	46307	1.950 ug/L	99
15) Methyl Acetate	2.47	43	12216	2.203 ug/L	98
16) Methylene chloride	2.53	84	31786	2.875 ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	18934	2.076 ug/L	98
18) Methyl tert-butyl Ether	2.80	73	48248	2.103 ug/L	96
19) 1,1-Dichloroethane	3.23	63	35204	2.103 ug/L	100
20) cis-1,2-Dichloroethene	3.97	96	21732	2.143 ug/L	93
22) 2-Butanone	4.05	43	14736m	3.741 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	10619	2.136	ug/L	97
25) Chloroform	4.42	83	44645	2.559	ug/L	92
27) 1,2-Dichloroethane	5.18	62	25719	2.144	ug/L	99
29) Cyclohexane	4.72	56	25459	1.683	ug/L #	92
30) 1,1,1-Trichloroethane	4.66	97	27445	1.956	ug/L	97
31) Carbon tetrachloride	4.87	117	24301	1.924	ug/L	99
33) Benzene	5.14	78	81234	2.068	ug/L	100
34) Trichloroethene	5.96	95	22605	2.124	ug/L	96
35) Methylcyclohexane	6.17	83	28359	1.698	ug/L	93
37) 1,2-Dichloropropane	6.22	63	21114	2.095	ug/L	97
38) Bromodichloromethane	6.55	83	27675	2.103	ug/L #	98
39) cis-1,3-Dichloropropene	7.07	75	30167	1.988	ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	33803	4.196	ug/L	97
42) Toluene	7.43	91	89348	2.139	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	25724m	2.064	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	18981	2.220	ug/L	95
46) Tetrachloroethene	8.02	164	18158	2.062	ug/L	96
48) 2-Hexanone	8.19	43	27342	4.662	ug/L	99
49) Dibromochloromethane	8.29	129	20626	2.116	ug/L	94
50) 1,2-Dibromoethane	8.40	107	18220	2.160	ug/L	97
51) Chlorobenzene	8.92	112	60217	2.125	ug/L	99
52) Ethylbenzene	9.05	91	87771	1.912	ug/L	99
53) m,p-Xylene	9.18	106	31798	1.812	ug/L	94
54) o-Xylene	9.59	106	30085	1.792	ug/L	99
55) Styrene	9.60	104	49229	1.675	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	25042	2.402	ug/L	96
59) Bromoform	9.77	173	12969	2.147	ug/L	99
60) Isopropylbenzene	9.97	105	74777	1.759	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	18569	2.313	ug/L #	95
62) 1,3,5-Trimethylbenzene	10.58	105	57571	1.681	ug/L	97
63) 1,2,4-Trimethylbenzene	10.96	105	55266	1.607	ug/L	100
64) 1,3-Dichlorobenzene	11.23	146	44623	2.000	ug/L	98
65) 1,4-Dichlorobenzene	11.32	146	50682	2.163	ug/L	99
67) 1,2-Dichlorobenzene	11.69	146	47568	2.233	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.47	75	3717	2.135	ug/L #	85
69) 1,3,5-Trichlorobenzene	12.69	180	37382	2.081	ug/L	97
70) 1,2,4-trichlorobenzene	13.31	180	29369	1.891	ug/L	96
71) Naphthalene	13.55	128	51204	1.693	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	30378	2.028	ug/L	99

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

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