

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
 Data File : VY000667.D
 Acq On : 13 Nov 2019 12:59
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:59:18 AM

Quant Time: Nov 14 08:12:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 13 16:30:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	341626	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	309637	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	145652	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	111846	23.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.72%
7) Chloroethane-d5	2.77	69	102068	23.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.24%
10) 1,1-Dichloroethene-d2	3.86	63	151679	17.02	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	68.08%
20) 2-Butanone-d5	6.90	46	102667	51.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.14%
24) Chloroform-d	7.49	84	201779	22.51	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.04%
26) 1,2-Dichloroethane-d4	8.15	65	124850	24.02	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.08%
29) Benzene-d6	8.12	84	432561	24.06	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.24%
33) 1,2-Dichloropropane-d6	9.13	67	134004	23.78	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.12%
37) Toluene-d8	10.18	98	389102	23.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.64%
38) trans-1,3-Dichloropropene-	10.44	79	63005	23.96	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.84%
39) 2-Hexanone-d5	10.79	63	75017	49.25	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.50%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	127356	23.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.92%
61) 1,2-Dichlorobenzene-d4	13.72	152	136512	23.44	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.91	85	2735	0.606	ug/L	89
3) Chloromethane	2.12	50	3186	0.563	ug/L	89
5) Vinyl chloride	2.26	62	3567	0.632	ug/L #	39
6) Bromomethane	2.66	94	1974	0.640	ug/L	99
8) Chloroethane	2.80	64	1895	0.535	ug/L	99
9) Trichlorofluoromethane	3.13	101	4549m	0.569	ug/L	
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	2804m	0.618	ug/L	
12) 1,1-Dichloroethene	3.87	96	3726m	0.841	ug/L	
13) Acetone	3.96	43	4766	3.272	ug/L	95
14) Carbon disulfide	4.21	76	6587	0.482	ug/L	98
15) Methyl Acetate	4.49	43	1710	0.512	ug/L	96
16) Methylene chloride	4.74	84	12754m	2.262	ug/L	
17) Methyl tert-butyl Ether	5.22	73	6769m	0.502	ug/L	
18) trans-1,2-Dichloroethene	5.23	96	2961m	0.599	ug/L	
19) 1,1-Dichloroethane	6.04	63	4623	0.531	ug/L #	84
22) cis-1,2-Dichloroethene	7.00	96	3150m	0.576	ug/L	
23) Bromochloromethane	7.35	128	1470	0.615	ug/L #	67

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25) Chloroform	7.52	83	11660	1.243	ug/L	92
27) 1,2-Dichloroethane	8.25	62	3617	0.577	ug/L #	93
30) Cyclohexane	7.80	56	4755	0.563	ug/L #	37
31) 1,1,1-Trichloroethane	7.71	97	3527	0.462	ug/L #	81
32) Carbon tetrachloride	7.90	117	3612m	0.543	ug/L	
34) Benzene	8.17	78	10248	0.506	ug/L	100
35) Trichloroethene	8.96	95	2949	0.556	ug/L #	78
36) Methylcyclohexane	9.19	83	4322	0.476	ug/L	93
40) 1,2-Dichloropropane	9.22	63	2628	0.512	ug/L #	95
41) Bromodichloromethane	9.51	83	4010	0.607	ug/L #	69
42) cis-1,3-Dichloropropene	9.93	75	3971	0.480	ug/L #	79
43) 4-Methyl-2-pentanone	10.08	43	6559	1.337	ug/L	95
44) Toluene	10.25	91	12640	0.578	ug/L	93
45) trans-1,3-Dichloropropene	10.47	75	2852	0.402	ug/L	92
46) 1,1,2-Trichloroethane	10.64	97	2157	0.513	ug/L	82
47) Tetrachloroethene	10.72	164	2328	0.587	ug/L #	72
49) 2-Hexanone	10.83	43	6203	1.623	ug/L #	93
50) Dibromochloromethane	10.99	129	2202	0.463	ug/L #	62
51) 1,2-Dibromoethane	11.10	107	2235	0.546	ug/L #	62
52) Chlorobenzene	11.52	112	6778	0.488	ug/L	98
53) Ethylbenzene	11.60	91	12570	0.508	ug/L	92
54) m,p-Xylene	11.70	106	5155	0.550	ug/L	100
55) o-xylene	12.03	106	4939	0.537	ug/L	89
56) Styrene	12.05	104	6508	0.426	ug/L	90
57) Isopropylbenzene	12.33	105	11215	0.469	ug/L #	94
58) 1,1,2,2-Tetrachloroethane	12.58	83	3731	0.711	ug/L #	85
59) 1,2,3-Trichloropropane	12.64	75	2265	0.531	ug/L	98
62) Bromoform	12.21	173	1249	0.452	ug/L #	77
63) 1,3-Dichlorobenzene	13.36	146	6097	0.587	ug/L #	78
64) 1,4-Dichlorobenzene	13.45	146	6282	0.605	ug/L	95
65) 1,2-Dichlorobenzene	13.74	146	5416	0.563	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.36	75	483m	0.528	ug/L	
67) 1,3,5-Trichlorobenzene	14.50	180	3997	0.552	ug/L	96
68) 1,2,4-trichlorobenzene	15.00	180	4097	0.633	ug/L #	84
69) Naphthalene	15.24	128	8638	0.535	ug/L	98
70) 1,2,3-Trichlorobenzene	15.42	180	3452	0.574	ug/L #	90

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

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