

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111219\
 Data File : VY000657.D
 Acq On : 12 Nov 2019 15:40
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 3:07:10 PM

Quant Time: Nov 13 10:13:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 13 03:17:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	360046	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	325908	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	153915	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	118249	23.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.00%
7) Chloroethane-d5	2.76	69	107435	23.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.12%
10) 1,1-Dichloroethene-d2	3.85	63	164222	17.49	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	69.96%
20) 2-Butanone-d5	6.90	46	100401	47.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.70%
24) Chloroform-d	7.49	84	211678	22.41	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.64%
26) 1,2-Dichloroethane-d4	8.15	65	127766	23.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.28%
29) Benzene-d6	8.12	84	449559	23.75	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.00%
33) 1,2-Dichloropropane-d6	9.13	67	136258	22.97	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.88%
37) Toluene-d8	10.18	98	405756	22.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.80%
38) trans-1,3-Dichloropropene-	10.44	79	62735	22.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.68%
39) 2-Hexanone-d5	10.79	63	75675	47.20	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.40%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	129267	22.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	89.60%
61) 1,2-Dichlorobenzene-d4	13.72	152	141728	23.02	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.08%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.90	85	5862	1.232	ug/L	100
3) Chloromethane	2.11	50	7209	1.209	ug/L #	80
5) Vinyl chloride	2.25	62	7369	1.238	ug/L #	63
6) Bromomethane	2.66	94	3632	1.117	ug/L	65
8) Chloroethane	2.80	64	4396	1.178	ug/L #	75
9) Trichlorofluoromethane	3.13	101	9902m	1.175	ug/L	
11) 1,1,2-Trichloro-1,2,2-trif	3.89	101	6376m	1.333	ug/L	
12) 1,1-Dichloroethene	3.87	96	6080m	1.303	ug/L	
13) Acetone	3.96	43	6303	4.106	ug/L	81
14) Carbon disulfide	4.21	76	14309	0.993	ug/L #	94
15) Methyl Acetate	4.49	43	3869m	1.100	ug/L	
16) Methylene chloride	4.72	84	13239m	2.227	ug/L	
17) Methyl tert-butyl Ether	5.24	73	16017	1.128	ug/L #	62
18) trans-1,2-Dichloroethene	5.23	96	5774	1.108	ug/L	94
19) 1,1-Dichloroethane	6.02	63	10175	1.109	ug/L	95
21) 2-Butanone	7.00	43	8455	3.126	ug/L	84
22) cis-1,2-Dichloroethene	7.00	96	6372	1.105	ug/L	90

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

23) Bromochloromethane	7.35	128	2703	1.074	ug/L	79
25) Chloroform	7.52	83	17525	1.772	ug/L	98
27) 1,2-Dichloroethane	8.25	62	7678	1.162	ug/L #	87
30) Cyclohexane	7.79	56	10433	1.173	ug/L	97
31) 1,1,1-Trichloroethane	7.71	97	8657	1.078	ug/L	95
32) Carbon tetrachloride	7.91	117	7840m	1.120	ug/L	
34) Benzene	8.17	78	24629	1.156	ug/L	100
35) Trichloroethene	8.94	95	6905m	1.236	ug/L	
36) Methylcyclohexane	9.19	83	9901	1.035	ug/L	96
40) 1,2-Dichloropropane	9.22	63	5933	1.099	ug/L	98
41) Bromodichloromethane	9.50	83	7455	1.073	ug/L #	90
42) cis-1,3-Dichloropropene	9.93	75	9846	1.132	ug/L	98
43) 4-Methyl-2-pentanone	10.07	43	12811	2.481	ug/L	95
44) Toluene	10.25	91	26189	1.137	ug/L	98
45) trans-1,3-Dichloropropene	10.47	75	8119m	1.086	ug/L	
46) 1,1,2-Trichloroethane	10.65	97	5364	1.211	ug/L	94
47) Tetrachloroethene	10.72	164	5018	1.203	ug/L	95
49) 2-Hexanone	10.83	43	11112	2.763	ug/L	94
50) Dibromochloromethane	10.99	129	5027	1.005	ug/L	87
51) 1,2-Dibromoethane	11.09	107	4652	1.079	ug/L #	96
52) Chlorobenzene	11.52	112	16278	1.114	ug/L	99
53) Ethylbenzene	11.59	91	28023	1.075	ug/L	92
54) m,p-Xylene	11.70	106	10698	1.085	ug/L	85
55) o-xylene	12.03	106	10914	1.128	ug/L	95
56) Styrene	12.04	104	16031	0.997	ug/L	96
57) Isopropylbenzene	12.33	105	25778	1.024	ug/L #	97
58) 1,1,1,2,2-Tetrachloroethane	12.58	83	6898	1.248	ug/L #	90
59) 1,2,3-Trichloropropane	12.63	75	5176	1.152	ug/L	100
62) Bromoform	12.20	173	2981	1.020	ug/L #	91
63) 1,3-Dichlorobenzene	13.36	146	11702	1.066	ug/L	99
64) 1,4-Dichlorobenzene	13.44	146	12830	1.169	ug/L	95
65) 1,2-Dichlorobenzene	13.74	146	11580	1.139	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.36	75	1289	1.334	ug/L #	79
67) 1,3,5-Trichlorobenzene	14.50	180	9135	1.194	ug/L	94
68) 1,2,4-trichlorobenzene	15.01	180	7520	1.099	ug/L	95
69) Naphthalene	15.23	128	18339	1.076	ug/L	98
70) 1,2,3-Trichlorobenzene	15.42	180	7292	1.146	ug/L	98

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

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