

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
 Data File : VY000668.D
 Acq On : 13 Nov 2019 13:21
 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
 11/19/2019 11:59:23 AM

Quant Time: Nov 14 08:37:13 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	333474	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	297960	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	140480	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	110943	23.56	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.24%
7) Chloroethane-d5	2.77	69	100372	23.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.96%
10) 1,1-Dichloroethene-d2	3.86	63	152391	17.52	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	70.08%
20) 2-Butanone-d5	6.91	46	93046	47.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.76%
24) Chloroform-d	7.49	84	203821	23.29	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.16%
26) 1,2-Dichloroethane-d4	8.16	65	123435	24.33	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.32%
29) Benzene-d6	8.12	84	431197	24.92	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.68%
33) 1,2-Dichloropropane-d6	9.13	67	135381	24.96	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.84%
37) Toluene-d8	10.18	98	389811	24.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.48%
38) trans-1,3-Dichloropropene-	10.44	79	63565	25.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.48%
39) 2-Hexanone-d5	10.79	63	72817	49.68	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.36%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	124131	23.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.12%
61) 1,2-Dichlorobenzene-d4	13.72	152	138425	24.64	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.56%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.90	85	3042	0.690 ug/L #	79
3) Chloromethane	2.12	50	3711	0.672 ug/L	92
5) Vinyl chloride	2.26	62	3011	0.546 ug/L #	67
6) Bromomethane	2.66	94	2132m	0.708 ug/L	
8) Chloroethane	2.80	64	2161m	0.625 ug/L	
9) Trichlorofluoromethane	3.14	101	4963	0.636 ug/L	93
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	3015	0.681 ug/L #	65
12) 1,1-Dichloroethene	3.87	96	3561	0.824 ug/L #	1
13) Acetone	3.98	43	2910m	2.047 ug/L	
14) Carbon disulfide	4.21	76	6922	0.519 ug/L #	91
15) Methyl Acetate	4.49	43	2009	0.617 ug/L #	82
16) Methylene chloride	4.73	84	11794	2.142 ug/L	85
17) Methyl tert-butyl Ether	5.24	73	7688m	0.584 ug/L	
18) trans-1,2-Dichloroethene	5.22	96	3382m	0.700 ug/L	
19) 1,1-Dichloroethane	6.04	63	4636	0.546 ug/L #	80
21) 2-Butanone	7.00	43	5695m	2.274 ug/L	
22) cis-1,2-Dichloroethene	7.00	96	3025	0.566 ug/L #	83

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

23) Bromochloromethane	7.35	128	1344m	0.576	ug/L	
25) Chloroform	7.52	83	11637	1.271	ug/L #	64
27) 1,2-Dichloroethane	8.24	62	3845m	0.628	ug/L	
30) Cyclohexane	7.79	56	5013	0.617	ug/L	94
31) 1,1,1-Trichloroethane	7.71	97	4382m	0.597	ug/L	
32) Carbon tetrachloride	7.92	117	3373	0.527	ug/L	92
34) Benzene	8.17	78	11569	0.594	ug/L	100
35) Trichloroethene	8.95	95	3129	0.613	ug/L #	73
36) Methylcyclohexane	9.19	83	5492	0.628	ug/L	95
40) 1,2-Dichloropropane	9.24	63	2885m	0.584	ug/L	
41) Bromodichloromethane	9.51	83	3945	0.621	ug/L #	87
42) cis-1,3-Dichloropropene	9.94	75	4952	0.623	ug/L	86
43) 4-Methyl-2-pentanone	10.08	43	6331	1.341	ug/L	95
44) Toluene	10.24	91	13834	0.657	ug/L	92
45) trans-1,3-Dichloropropene	10.47	75	3591	0.526	ug/L	90
46) 1,1,2-Trichloroethane	10.64	97	2671	0.660	ug/L #	80
47) Tetrachloroethene	10.72	164	2770	0.726	ug/L #	68
49) 2-Hexanone	10.83	43	6091	1.656	ug/L #	86
50) Dibromochloromethane	10.99	129	2710	0.592	ug/L	95
51) 1,2-Dibromoethane	11.09	107	2082	0.528	ug/L #	94
52) Chlorobenzene	11.52	112	8122	0.608	ug/L	97
53) Ethylbenzene	11.59	91	14565	0.611	ug/L	92
54) m,p-Xylene	11.70	106	5256	0.583	ug/L	94
55) o-xylene	12.03	106	5008	0.566	ug/L	79
56) Styrene	12.04	104	7718	0.525	ug/L	95
57) Isopropylbenzene	12.33	105	13393	0.582	ug/L	97
58) 1,1,1,2,2-Tetrachloroethane	12.58	83	3723	0.737	ug/L #	87
59) 1,2,3-Trichloropropane	12.63	75	2419	0.589	ug/L	98
62) Bromoform	12.20	173	1477m	0.554	ug/L	
63) 1,3-Dichlorobenzene	13.36	146	5976	0.596	ug/L #	83
64) 1,4-Dichlorobenzene	13.45	146	6685	0.667	ug/L	95
65) 1,2-Dichlorobenzene	13.73	146	5733	0.618	ug/L #	78
66) 1,2-Dibromo-3-chloropropan	14.36	75	480m	0.544	ug/L	
67) 1,3,5-Trichlorobenzene	14.50	180	4723	0.676	ug/L	89
68) 1,2,4-trichlorobenzene	15.00	180	3915	0.627	ug/L	93
69) Naphthalene	15.23	128	8699	0.559	ug/L #	95
70) 1,2,3-Trichlorobenzene	15.42	180	3274	0.564	ug/L #	91

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

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