

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\
 Data File : VU033504.D
 Acq On : 30 Jul 2019 19:57
 Operator : JC/SP
 Sample : MDL04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 7/31/2019 10:34:08 AM

Quant Time: Jul 31 08:28:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:02:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	304676	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	301558	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	148400	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	106560	48.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.20%
7) Chloroethane-d5	1.67	69	91241	48.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.02%
11) 1,1-Dichloroethene-d2	2.26	63	147347	36.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.30%
21) 2-Butanone-d5	4.15	46	153711	104.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.77%
24) Chloroform-d	4.62	84	180445	48.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.29	65	118793	50.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.04%
32) Benzene-d6	5.32	84	375901	50.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.58%
36) 1,2-Dichloropropane-d6	6.31	67	117162	50.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.00%
41) Toluene-d8	7.55	98	340590	48.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.24%
43) trans-1,3-Dichloropropene-	7.83	79	56279	48.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.82%
47) 2-Hexanone-d5	8.30	63	111113	99.87	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.87%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	175561	48.59	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.18%
64) 1,2-Dichlorobenzene-d4	11.85	152	136742	50.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.64%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	6119	2.130 ug/L	99
3) Chloromethane	1.32	50	7319	2.529 ug/L	96
5) Vinyl chloride	1.40	62	7407	2.387 ug/L #	65
6) Bromomethane	1.62	94	4750	1.735 ug/L	95
8) Chloroethane	1.69	64	5703m	3.025 ug/L	
9) Trichlorofluoromethane	1.87	101	9677	2.384 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	5882	2.859 ug/L #	62
12) 1,1-Dichloroethene	2.27	96	5408	2.741 ug/L #	1
13) Acetone	2.31	43	6353	4.232 ug/L	96
14) Carbon disulfide	2.46	76	14445	2.334 ug/L	98
15) Methyl Acetate	2.61	43	5301	2.218 ug/L	96
16) Methylene chloride	2.68	84	5580	2.476 ug/L	96
17) trans-1,2-Dichloroethene	2.97	96	4512	2.183 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	13218	2.097 ug/L	96
19) 1,1-Dichloroethane	3.42	63	8941	2.304 ug/L	94
20) cis-1,2-Dichloroethene	4.20	96	5143	2.217 ug/L	96
22) 2-Butanone	4.25	43	7340m	4.096 ug/L	

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

23) Bromochloromethane	4.52	128	2719	2.246	ug/L	94
25) Chloroform	4.65	83	13535	3.315	ug/L	98
27) 1,2-Dichloroethane	5.39	62	7309	2.325	ug/L	99
29) Cyclohexane	4.97	56	6882	2.092	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	7669	2.210	ug/L	97
31) Carbon tetrachloride	5.12	117	6624	2.192	ug/L #	55
33) Benzene	5.37	78	19122	2.198	ug/L	100
34) Trichloroethene	6.17	95	5095	2.220	ug/L	93
35) Methylcyclohexane	6.40	83	6854	1.914	ug/L	96
37) 1,2-Dichloropropane	6.41	63	4840	2.078	ug/L #	95
38) Bromodichloromethane	6.74	83	6666	2.214	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	7594	2.089	ug/L	95
40) 4-Methyl-2-pentanone	7.45	43	12906	4.014	ug/L	97
42) Toluene	7.62	91	20840	2.228	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	7012	2.135	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	5032	2.276	ug/L	90
46) Tetrachloroethene	8.21	164	3722	1.987	ug/L	92
48) 2-Hexanone	8.35	43	10854	4.177	ug/L #	96
49) Dibromochloromethane	8.46	129	5485	2.181	ug/L	93
50) 1,2-Dibromoethane	8.57	107	5169	2.111	ug/L #	89
51) Chlorobenzene	9.10	112	13783	2.251	ug/L	96
52) Ethylbenzene	9.24	91	19768	1.962	ug/L	97
53) m,p-Xylene	9.36	106	7655	1.980	ug/L	91
54) o-xylene	9.76	106	6906	1.841	ug/L	95
55) Styrene	9.78	104	11409	1.791	ug/L	99
56) Isopropylbenzene	10.15	105	17500	1.785	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	9686	2.429	ug/L	97
59) 1,2,3-Trichloropropane	10.48	75	6800	2.212	ug/L	100
61) Bromoform	9.94	173	3782	2.110	ug/L	95
62) 1,3-Dichlorobenzene	11.40	146	10134	2.224	ug/L	91
63) 1,4-Dichlorobenzene	11.49	146	11042	2.332	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	11045	2.397	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.64	75	1730	2.032	ug/L #	82
67) 1,3,5-Trichlorobenzene	12.88	180	7093	1.929	ug/L	95
68) 1,2,4-trichlorobenzene	13.50	180	5045	1.606	ug/L	96
69) Naphthalene	13.74	128	12293	1.364	ug/L	95
70) 1,2,3-Trichlorobenzene	13.98	180	5313	1.608	ug/L	98

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

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