

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020620\
 Data File : VU036687.D
 Acq On : 06 Feb 2020 15:43
 Operator : JC/MD
 Sample : MDL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 2/7/2020 1:21:53 PM

Quant Time: Feb 07 05:33:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 04:51:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	271345	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	252198	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	113304	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	85460	47.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.44%
7) Chloroethane-d5	1.93	69	78782	46.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.90%
11) 1,1-Dichloroethene-d2	2.59	63	122606	35.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.78%
21) 2-Butanone-d5	4.68	46	159156	103.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.09%
24) Chloroform-d	5.11	84	155794	47.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.14%
26) 1,2-Dichloroethane-d4	5.75	65	110473	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.64%
32) Benzene-d6	5.77	84	332171	50.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.20%
36) 1,2-Dichloropropane-d6	6.73	67	109065	49.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.10%
41) Toluene-d8	7.93	98	301220	49.61	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.22%
43) trans-1,3-Dichloropropene-	8.21	79	50667	48.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.16%
47) 2-Hexanone-d5	8.67	63	125904	100.23	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.23%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	156413	48.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.44%
66) 1,2-Dichlorobenzene-d4	12.21	152	103676	50.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4462	2.380 ug/L	99
3) Chloromethane	1.54	50	5434	2.446 ug/L	98
5) Vinyl chloride	1.62	62	6262	2.618 ug/L #	77
6) Bromomethane	1.87	94	3853	2.569 ug/L	99
8) Chloroethane	1.95	64	4167	2.745 ug/L	91
9) Trichlorofluoromethane	2.16	101	7056	2.482 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	5199	3.054 ug/L #	86
12) 1,1-Dichloroethene	2.61	96	4986	3.008 ug/L #	1
13) Acetone	2.67	43	11608	7.078 ug/L	99
14) Carbon disulfide	2.82	76	12619	2.548 ug/L #	93
15) Methyl Acetate	2.99	43	5596	2.360 ug/L	98
16) Methylene chloride	3.08	84	5953	2.910 ug/L	90
17) trans-1,2-Dichloroethene	3.39	96	4335	2.458 ug/L	98
18) Methyl tert-butyl Ether	3.41	73	14981	2.448 ug/L	99
19) 1,1-Dichloroethane	3.92	63	8710	2.479 ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	5093	2.534 ug/L	85
22) 2-Butanone	4.76	43	9863	5.067 ug/L	99

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

23) Bromochloromethane	5.02	128	2206m	2.343	ug/L	
25) Chloroform	5.13	83	9873	2.889	ug/L	92
27) 1,2-Dichloroethane	5.84	62	7671	2.669	ug/L #	93
29) Cyclohexane	5.43	56	7666	2.366	ug/L	93
30) 1,1,1-Trichloroethane	5.36	97	6921	2.583	ug/L	96
31) Carbon tetrachloride	5.57	117	5267	2.428	ug/L	99
33) Benzene	5.82	78	19296	2.530	ug/L	100
34) Trichloroethene	6.58	95	4673	2.477	ug/L	93
35) Methylcyclohexane	6.80	83	7755	2.334	ug/L	97
37) 1,2-Dichloropropane	6.83	63	4994	2.428	ug/L #	92
38) Bromodichloromethane	7.14	83	5851	2.341	ug/L	95
39) cis-1,3-Dichloropropene	7.64	75	7710	2.346	ug/L	97
40) 4-Methyl-2-pentanone	7.83	43	15913	4.896	ug/L	97
42) Toluene	8.00	91	20959	2.543	ug/L	95
44) trans-1,3-Dichloropropene	8.24	75	6944m	2.419	ug/L	
45) 1,1,2-Trichloroethane	8.43	97	4587	2.444	ug/L	96
46) Tetrachloroethene	8.58	164	3491	2.637	ug/L	87
48) 2-Hexanone	8.72	43	14807	5.585	ug/L	98
49) Dibromochloromethane	8.84	129	4289	2.337	ug/L	98
50) 1,2-Dibromoethane	8.95	107	4688	2.378	ug/L #	91
51) Chlorobenzene	9.47	112	12229	2.464	ug/L	96
52) Ethylbenzene	9.60	91	21439	2.367	ug/L	100
53) m,p-Xylene	9.72	106	8038	2.406	ug/L	97
54) o-xylene	10.12	106	7606	2.298	ug/L	95
55) Styrene	10.14	104	12486	2.264	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.81	83	8253	2.441	ug/L	97
59) Bromoform	10.32	173	2631	2.102	ug/L #	96
60) 1,2,3-Trichloropropane	10.85	75	6603	2.477	ug/L	97
61) Isopropylbenzene	10.51	105	19989	2.369	ug/L	97
62) 1,3,5-Trimethylbenzene	11.11	105	16380	2.264	ug/L	97
63) 1,2,4-Trimethylbenzene	11.49	105	16289	2.255	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	9174	2.586	ug/L	97
65) 1,4-Dichlorobenzene	11.86	146	9241	2.587	ug/L	97
67) 1,2-Dichlorobenzene	12.23	146	9143	2.545	ug/L	95
68) 1,2-Dibromo-3-chloropropan	13.02	75	1649	2.165	ug/L	96
69) 1,3,5-Trichlorobenzene	13.24	180	5779	2.349	ug/L	97
70) 1,2,4-trichlorobenzene	13.85	180	4866	2.372	ug/L	97
71) Naphthalene	14.10	128	13689	1.893	ug/L	98
72) 1,2,3-Trichlorobenzene	14.34	180	4185	2.048	ug/L	97

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

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