

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073019\
 Data File : VU033484.D
 Acq On : 30 Jul 2019 11:01
 Operator : JC/SP
 Sample : MDL03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 3:14:43 PM

Quant Time: Jul 31 08:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	305279	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	311468	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	153783	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	118285	42.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.34%
7) Chloroethane-d5	1.67	69	102195	44.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.24%
11) 1,1-Dichloroethene-d2	2.26	63	185923	36.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.36%
21) 2-Butanone-d5	4.15	46	147375	92.78	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.78%
24) Chloroform-d	4.62	84	182259	43.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.86%
26) 1,2-Dichloroethane-d4	5.29	65	126082	47.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.22%
32) Benzene-d6	5.32	84	388780	46.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.31	67	120739	46.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.10%
41) Toluene-d8	7.55	98	352353	44.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.66%
43) trans-1,3-Dichloropropene-	7.83	79	56904	44.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.80%
47) 2-Hexanone-d5	8.30	63	105080	97.54	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.54%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	184485	46.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.70%
66) 1,2-Dichlorobenzene-d4	11.85	152	144740	48.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.96%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	8573	2.815 ug/L	99
3) Chloromethane	1.32	50	10426	3.428 ug/L #	36
5) Vinyl chloride	1.40	62	9662	2.778 ug/L #	73
6) Bromomethane	1.62	94	5970	2.456 ug/L	98
8) Chloroethane	1.69	64	5727	2.685 ug/L	97
9) Trichlorofluoromethane	1.87	101	12083	2.649 ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	8434	3.680 ug/L	90
12) 1,1-Dichloroethene	2.27	96	8245	3.692 ug/L #	1
13) Acetone	2.31	43	10507	6.674 ug/L	96
14) Carbon disulfide	2.46	76	18102	2.720 ug/L	98
15) Methyl Acetate	2.60	43	6819	2.701 ug/L	97
16) Methylene chloride	2.68	84	7244	2.952 ug/L	91
17) trans-1,2-Dichloroethene	2.96	96	5806	2.617 ug/L	92
18) Methyl tert-butyl Ether	2.98	73	16312	2.492 ug/L	99
19) 1,1-Dichloroethane	3.42	63	11299	2.705 ug/L	93
20) cis-1,2-Dichloroethene	4.20	96	6565	2.681 ug/L	83
22) 2-Butanone	4.25	43	9540	5.100 ug/L	75

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

23) Bromochloromethane	4.53	128	3466	2.665	ug/L	87
25) Chloroform	4.65	83	22595	5.102	ug/L	97
27) 1,2-Dichloroethane	5.39	62	9867	2.869	ug/L #	92
29) Cyclohexane	4.97	56	7838m	2.291	ug/L	
30) 1,1,1-Trichloroethane	4.89	97	9842	2.654	ug/L	99
31) Carbon tetrachloride	5.12	117	8309	2.517	ug/L	92
33) Benzene	5.37	78	25262	2.714	ug/L	100
34) Trichloroethene	6.17	95	6653	2.743	ug/L	96
35) Methylcyclohexane	6.40	83	9048	2.453	ug/L	99
37) 1,2-Dichloropropane	6.41	63	6755	2.698	ug/L #	97
38) Bromodichloromethane	6.74	83	8873	2.692	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	8776	2.351	ug/L #	81
40) 4-Methyl-2-pentanone	7.45	43	16733	5.071	ug/L	98
42) Toluene	7.62	91	28058	2.801	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	9198m	2.714	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	6363	2.665	ug/L	98
46) Tetrachloroethene	8.21	164	5221	2.645	ug/L	96
48) 2-Hexanone	8.35	43	18384	6.839	ug/L #	90
49) Dibromochloromethane	8.46	129	7220	2.700	ug/L	97
50) 1,2-Dibromoethane	8.57	107	7025	2.712	ug/L	95
51) Chlorobenzene	9.11	112	19908	2.991	ug/L	98
52) Ethylbenzene	9.24	91	28211	2.598	ug/L	99
53) m,p-Xylene	9.36	106	9479	2.321	ug/L	96
54) o-xylene	9.76	106	9622	2.403	ug/L	95
55) Styrene	9.78	104	15437	2.272	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.44	83	12734	3.000	ug/L #	96
59) Bromoform	9.95	173	5324	2.768	ug/L	98
60) 1,2,3-Trichloropropane	10.48	75	9153	2.921	ug/L	98
61) Isopropylbenzene	10.15	105	23942	2.431	ug/L	98
62) 1,3,5-Trimethylbenzene	10.76	105	22004	2.757	ug/L	98
63) 1,2,4-Trimethylbenzene	11.13	105	18642	2.355	ug/L	97
64) 1,3-Dichlorobenzene	11.40	146	14010	2.790	ug/L	92
65) 1,4-Dichlorobenzene	11.49	146	14037	2.706	ug/L	93
67) 1,2-Dichlorobenzene	11.86	146	14882	2.958	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.64	75	3011	3.457	ug/L	84
69) 1,3,5-Trichlorobenzene	12.88	180	10283	2.697	ug/L	98
70) 1,2,4-trichlorobenzene	13.49	180	7570	2.379	ug/L	96
71) Naphthalene	13.74	128	18695	2.032	ug/L	98
72) 1,2,3-Trichlorobenzene	13.98	180	8536	2.561	ug/L	96

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

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