

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\
 Data File : VU033503.D
 Acq On : 30 Jul 2019 19:34
 Operator : JC/SP
 Sample : MDL03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 7/31/2019 10:34:03 AM

Quant Time: Jul 31 08:27:28 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	335040	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	333257	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	165120	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	103457	42.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.94%
7) Chloroethane-d5	1.67	69	89419	42.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.56%
11) 1,1-Dichloroethene-d2	2.26	63	144126	32.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.20%
21) 2-Butanone-d5	4.15	46	150580	93.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.33%
24) Chloroform-d	4.62	84	179709	44.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.02%
26) 1,2-Dichloroethane-d4	5.28	65	118077	45.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.32%
32) Benzene-d6	5.32	84	374040	45.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.56%
36) 1,2-Dichloropropane-d6	6.31	67	117891	45.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.04%
41) Toluene-d8	7.55	98	337103	43.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.08%
43) trans-1,3-Dichloropropene-	7.83	79	55940	43.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.10%
47) 2-Hexanone-d5	8.29	63	111555	90.73	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.73%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	174420	43.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.36%
64) 1,2-Dichlorobenzene-d4	11.85	152	136814	45.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	7645	2.420 ug/L	100
3) Chloromethane	1.32	50	8679	2.727 ug/L	96
5) Vinyl chloride	1.39	62	8747	2.564 ug/L #	65
6) Bromomethane	1.62	94	5574	1.852 ug/L	93
8) Chloroethane	1.69	64	5465	2.636 ug/L	90
9) Trichlorofluoromethane	1.87	101	11331	2.539 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6804	3.007 ug/L #	82
12) 1,1-Dichloroethene	2.27	96	6715	3.095 ug/L #	1
13) Acetone	2.31	43	7728	4.682 ug/L	99
14) Carbon disulfide	2.46	76	18008	2.646 ug/L	96
15) Methyl Acetate	2.60	43	6216	2.365 ug/L	97
16) Methylene chloride	2.68	84	6445	2.601 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	5502	2.420 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	15809	2.281 ug/L	97
19) 1,1-Dichloroethane	3.43	63	10456	2.451 ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	6616	2.593 ug/L	98
22) 2-Butanone	4.25	43	8259	4.191 ug/L #	67

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3260	2.449	ug/L	82
25) Chloroform	4.65	83	15630	3.481	ug/L	96
27) 1,2-Dichloroethane	5.39	62	9165	2.651	ug/L	96
29) Cyclohexane	4.97	56	8158	2.244	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	9244	2.411	ug/L	97
31) Carbon tetrachloride	5.11	117	8033	2.406	ug/L	99
33) Benzene	5.37	78	24542	2.553	ug/L	100
34) Trichloroethene	6.17	95	6243	2.462	ug/L	96
35) Methylcyclohexane	6.39	83	8921	2.254	ug/L	98
37) 1,2-Dichloropropane	6.41	63	7084	2.753	ug/L #	92
38) Bromodichloromethane	6.74	83	7954	2.391	ug/L	96
39) cis-1,3-Dichloropropene	7.25	75	10000	2.490	ug/L	96
40) 4-Methyl-2-pentanone	7.44	43	16509	4.646	ug/L	99
42) Toluene	7.62	91	25389	2.456	ug/L	94
44) trans-1,3-Dichloropropene	7.86	75	8783m	2.420	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	6103	2.498	ug/L	94
46) Tetrachloroethene	8.21	164	5236	2.529	ug/L	99
48) 2-Hexanone	8.35	43	14174	4.935	ug/L	98
49) Dibromochloromethane	8.46	129	6449	2.320	ug/L	96
50) 1,2-Dibromoethane	8.58	107	6515	2.408	ug/L #	86
51) Chlorobenzene	9.10	112	17182	2.539	ug/L	95
52) Ethylbenzene	9.23	91	24614	2.211	ug/L	99
53) m,p-Xylene	9.36	106	9406	2.201	ug/L	98
54) o-xylene	9.76	106	8738	2.108	ug/L	97
55) Styrene	9.78	104	14201	2.017	ug/L	96
56) Isopropylbenzene	10.15	105	22612	2.088	ug/L	97
58) 1,1,1,2,2-Tetrachloroethane	10.44	83	11592	2.631	ug/L #	88
59) 1,2,3-Trichloropropane	10.48	75	8428	2.481	ug/L	100
61) Bromoform	9.94	173	4578	2.295	ug/L #	94
62) 1,3-Dichlorobenzene	11.40	146	12863	2.537	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	13779	2.615	ug/L	95
65) 1,2-Dichlorobenzene	11.86	146	13966	2.724	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	2303	2.431	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	9333	2.281	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	6862	1.963	ug/L	93
69) Naphthalene	13.74	128	15621	1.558	ug/L	94
70) 1,2,3-Trichlorobenzene	13.98	180	7160	1.948	ug/L	97

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

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