

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU051119\
 Data File : VU031931.D
 Acq On : 11 May 2019 15:37
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Manual Integrations
 APPROVED

MMDadoda
 5/13/2019 1:02:34 PM

Quant Time: May 13 05:10:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon May 13 01:54:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1077508	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1082640	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	480543	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	387342	42.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.90%
7) Chloroethane-d5	1.67	69	337657	48.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.90%
11) 1,1-Dichloroethene-d2	2.27	63	744539	41.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.92%
21) 2-Butanone-d5	4.17	46	718297	87.91	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.91%
24) Chloroform-d	4.64	84	732895	44.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.76%
26) 1,2-Dichloroethane-d4	5.30	65	461084	42.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.46%
32) Benzene-d6	5.33	84	1469592	44.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.40%
36) 1,2-Dichloropropane-d6	6.32	67	491437	42.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.04%
41) Toluene-d8	7.56	98	1329197	45.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	7.85	79	217930	43.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.82%
47) 2-Hexanone-d5	8.31	63	484436	95.69	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.69%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	748661	47.69	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.38%
64) 1,2-Dichlorobenzene-d4	11.85	152	469087	46.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.84%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	510686	43.101	ug/L 100
3) Chloromethane	1.32	50	581264	40.546	ug/L 99
5) Vinyl chloride	1.40	62	596266	44.488	ug/L 100
6) Bromomethane	1.61	94	330379	46.742	ug/L 96
8) Chloroethane	1.69	64	351031	47.913	ug/L 98
9) Trichlorofluoromethane	1.88	101	652831	42.728	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	379526	43.941	ug/L 98
12) 1,1-Dichloroethene	2.28	96	383691	45.640	ug/L 86
13) Acetone	2.32	43	563515	61.227	ug/L 95
14) Carbon disulfide	2.47	76	1204964	43.193	ug/L 99
15) Methyl Acetate	2.61	43	517051m	37.128	ug/L
16) Methylene chloride	2.69	84	461500	46.517	ug/L 92
17) trans-1,2-Dichloroethene	2.98	96	398402	45.481	ug/L 93
18) Methyl tert-butyl Ether	2.99	73	1309812	46.932	ug/L 96
19) 1,1-Dichloroethane	3.44	63	811177	43.970	ug/L 100
20) cis-1,2-Dichloroethene	4.22	96	452377	48.143	ug/L 95
22) 2-Butanone	4.25	43	778910	76.388	ug/L 88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	216172	47.344	ug/L	85
25) Chloroform	4.67	83	777292	44.061	ug/L	97
27) 1,2-Dichloroethane	5.40	62	616163	43.000	ug/L	100
29) Cyclohexane	4.99	56	729402	42.569	ug/L	92
30) 1,1,1-Trichloroethane	4.91	97	616019	40.611	ug/L	100
31) Carbon tetrachloride	5.13	117	513503	39.606	ug/L	99
33) Benzene	5.38	78	1800139	45.225	ug/L	100
34) Trichloroethene	6.18	95	439953	45.597	ug/L	97
35) Methylcyclohexane	6.41	83	685351	47.396	ug/L	93
37) 1,2-Dichloropropane	6.43	63	487933	43.179	ug/L	100
38) Bromodichloromethane	6.75	83	580737	42.386	ug/L	96
39) cis-1,3-Dichloropropene	7.26	75	693342	46.434	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1418855	81.611	ug/L	94
42) Toluene	7.63	91	1907128	48.099	ug/L	96
44) trans-1,3-Dichloropropene	7.87	75	615850	45.474	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	435841	46.785	ug/L	99
46) Tetrachloroethene	8.22	164	295150	44.870	ug/L	98
48) 2-Hexanone	8.36	43	1160976	82.565	ug/L #	95
49) Dibromochloromethane	8.47	129	424565	43.802	ug/L	97
50) 1,2-Dibromoethane	8.58	107	457993	46.550	ug/L	100
51) Chlorobenzene	9.12	112	1116759	47.662	ug/L	97
52) Ethylbenzene	9.24	91	2015365	49.000	ug/L	98
53) m,p-Xylene	9.37	106	732758	51.134	ug/L	93
54) o-xylene	9.77	106	742616	52.272	ug/L	93
55) Styrene	9.79	104	1281977	52.817	ug/L	96
56) Isopropylbenzene	10.16	105	1890064	50.593	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	783247	47.381	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	610574	45.573	ug/L	99
61) Bromoform	9.95	173	306984	43.096	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	782934	49.220	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	798828	48.491	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	830992	49.155	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	168400	42.920	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	559240	46.940	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	463758	49.169	ug/L	99
69) Naphthalene	13.74	128	1772986	55.133	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	524635	48.857	ug/L	100

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

