

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034006.D
 Acq On : 3 Jul 2019 9:46
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:47 PM

Quant Time: Jul 03 10:23:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 10:23:48 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1010961	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2606158	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	3143258m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2315680	8.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1605193	7.694	ppbv	97
3) Chlorodifluoromethane	3.00	51	1239192	9.926	ppbv	99
4) Chloromethane	3.16	50	701753	9.776	ppbv	100
5) Vinyl Chloride	3.27	62	766606	9.497	ppbv	92
6) Bromomethane	3.49	94	490584	10.306	ppbv	98
7) Chloroethane	3.58	64	299262	10.373	ppbv	100
8) Dichlorotetrafluoroethane	3.20	85	2020691	9.934	ppbv	99
9) Propene	3.02	41	451294	9.827	ppbv	98
10) Heptane	8.22	43	1256557	10.928	ppbv	99
11) Trichlorofluoromethane	3.98	101	2185956	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1608505	9.687	ppbv	98
13) Ethanol	3.63	45	137044m	9.606	ppbv	
14) Bromoethene	3.77	108	687194	11.082	ppbv	99
15) Acetone	3.88	43	1437366	8.456	ppbv	99
16) 1,3-Butadiene	3.35	39	654935	10.912	ppbv	99
17) tert-Butyl alcohol	4.34	59	1464911	10.810	ppbv	98
18) 1,1-Dichloroethene	4.33	96	728621	9.852	ppbv	94
19) Isopropyl Alcohol	4.00	45	1144559	10.032	ppbv	99
20) Methylene Chloride	4.39	84	647693	8.737	ppbv	98
21) Allyl Chloride	4.46	41	1072714	10.122	ppbv	98
22) trans-1,2-Dichloroethene	4.94	96	749853	10.641	ppbv	98
23) Vinyl Acetate	5.13	43	1831603	10.796	ppbv	99
24) 1,1-Dichloroethane	5.07	63	1506285	10.018	ppbv	98
25) Ethyl Acetate	5.74	43	2427884	10.444	ppbv	100
26) Hexane	5.75	57	1087578	10.223	ppbv	98
27) Carbon Disulfide	4.60	76	1942526	10.741	ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	1947479	10.809	ppbv	99
29) Chloroform	5.82	83	1985984	9.933	ppbv	97
30) Cyclohexane	7.22	84	914490	11.131	ppbv	97
31) cis-1,2-Dichloroethene	5.62	61	1149926	11.188	ppbv	96
32) 1,1,1-Trichloroethane	6.59	97	1938667	9.567	ppbv	99
34) 2-Butanone	5.30	43	1461740	10.598	ppbv	100
35) Carbon Tetrachloride	7.10	117	2063225	10.000	ppbv	99
36) Benzene	6.98	78	2202920	10.803	ppbv	97
37) 1,2-Dichloroethane	6.38	62	1520602	10.122	ppbv	100
38) Trichloroethene	7.93	130	999301	11.013	ppbv	96
39) 1,2-Dichloropropane	7.70	63	806021	10.629	ppbv	99
40) 1,4-Dioxane	7.93	88	349962	9.996	ppbv #	98
41) Tetrahydrofuran	6.12	42	785263	11.609	ppbv	99
42) Bromodichloromethane	7.88	83	2110989	10.473	ppbv	95
43) Methyl Methacrylate	8.10	69	905078	11.698	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	3725306	10.583	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	1340242	13.247	ppbv	100
46) cis-1,3-Dichloropropene	8.80	75	1467947	12.528	ppbv	97
47) 1,1,2-Trichloroethane	9.58	97	1024522	10.746	ppbv	96
48) Dibromochloromethane	10.42	129	1892526	10.403	ppbv	99
49) Bromoform	13.17	173	1893621	12.184	ppbv	99
50) 4-Methyl-2-Pentanone	8.84	43	2300681	11.241	ppbv	99
51) 2-Hexanone	10.24	43	1883784	11.412	ppbv #	99
52) Tetrachloroethene	11.34	164	1027625	11.708	ppbv	97
53) Toluene	9.91	91	2905523	12.447	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1589666	11.298	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.24	131	1342183	9.554	ppbv	99
57) Chlorobenzene	12.26	112	2363908	9.446	ppbv	95
58) Ethyl Benzene	12.83	91	4145887	10.968	ppbv	98
59) m/p-Xylene	13.11	91	6911905m	20.195	ppbv	
60) o-Xylene	13.81	91	3459328	10.104	ppbv	99
61) Styrene	13.65	104	2569098	11.338	ppbv	100
62) Isopropylbenzene	14.79	105	4587785	8.716	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.80	83	2373279	8.955	ppbv	100
64) n-propylbenzene	15.69	120	1163145	8.522	ppbv	97
65) tert-Butylbenzene	16.88	119	4182965	9.346	ppbv	100
66) Benzyl Chloride	17.12	91	2329955	10.174	ppbv	100
67) sec-Butylbenzene	17.42	105	5923724	9.429	ppbv	100
69) p-Isopropyltoluene	17.78	119	4918932	9.496	ppbv	99
70) n-Butylbenzene	18.68	91	4944651	9.087	ppbv	98
71) 2-Chlorotoluene	15.58	91	3453083	8.964	ppbv	100
72) 4-Ethyltoluene	15.97	105	4004653	9.108	ppbv	99
73) 1,3,5-Trimethylbenzene	16.12	105	3864174	9.445	ppbv	97
74) 1,2,4-Trimethylbenzene	16.89	105	4079349	9.003	ppbv #	88
75) 1,3-Dichlorobenzene	17.13	146	2456643	8.535	ppbv	99
76) 1,4-Dichlorobenzene	17.27	146	2435293	8.983	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	2313397	8.680	ppbv	99
78) Hexachloro-1,3-Butadiene	23.51	225	2145030	9.458	ppbv	98
79) Naphthalene	22.37	128	3761441	9.873	ppbv	98
80) Naphthalene, 2-methyl-	25.09	142	2003060	14.449	ppbv	97
81) 1,2,4-Trichlorobenzene	22.09	180	2240439	9.157	ppbv	99

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

