

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034577.D
 Acq On : 4 Feb 2020 11:42
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 2:50:05 PM

Quant Time: Feb 05 05:58:12 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1194033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2440872	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2582395	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2170845	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	2239988	8.517	ppbv	99
3) Chlorodifluoromethane	2.95	51	1258052	8.720	ppbv	100
4) Chloromethane	3.11	50	757510	8.581	ppbv	99
5) Vinyl Chloride	3.22	62	707824	8.394	ppbv	98
6) Bromomethane	3.44	94	389530	8.882	ppbv	96
7) Chloroethane	3.53	64	274398	8.751	ppbv	96
8) Dichlorotetrafluoroethane	3.16	85	1766560	8.594	ppbv	99
9) Propene	2.98	41	498291	8.870	ppbv	100
10) Heptane	8.14	43	1344263	9.509	ppbv	98
11) Trichlorofluoromethane	3.93	101	2070687	8.667	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1399477	8.978	ppbv	99
13) Ethanol	3.58	45	109384	7.269	ppbv	99
14) Bromoethene	3.71	108	558539	9.135	ppbv	97
15) Acetone	3.83	43	1435890	8.182	ppbv	100
16) 1,3-Butadiene	3.29	39	655095	9.401	ppbv	100
17) tert-Butyl alcohol	4.28	59	1173600	9.094	ppbv	100
18) 1,1-Dichloroethene	4.27	96	623115	9.470	ppbv	98
19) Isopropyl Alcohol	3.95	45	876584	8.560	ppbv	99
20) Methylene Chloride	4.33	84	532250	7.965	ppbv	98
21) Allyl Chloride	4.39	41	1023323	9.389	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	631294	9.161	ppbv	97
23) Vinyl Acetate	5.07	43	1861751	9.299	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1487639	8.899	ppbv	99
25) Ethyl Acetate	5.67	43	2500820	8.803	ppbv	100
26) Hexane	5.69	57	1079621	9.073	ppbv	98
27) Carbon Disulfide	4.53	76	1619268	10.085	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1926561	9.493	ppbv	99
29) Chloroform	5.75	83	1838927	8.739	ppbv	98
30) Cyclohexane	7.14	84	870925	9.877	ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1154923	9.341	ppbv	97
32) 1,1,1-Trichloroethane	6.52	97	1950650	8.634	ppbv	99
34) 2-Butanone	5.24	43	1579449	8.912	ppbv	100
35) Carbon Tetrachloride	7.03	117	2113666	9.058	ppbv	97
36) Benzene	6.90	78	2051571	9.451	ppbv	96
37) 1,2-Dichloroethane	6.32	62	1628714	8.993	ppbv	100
38) Trichloroethene	7.86	130	888269	9.708	ppbv	94
39) 1,2-Dichloropropane	7.63	63	814442	9.051	ppbv	95
40) 1,4-Dioxane	7.84	88	303333	8.769	ppbv	91
41) Tetrahydrofuran	6.05	42	865153	9.357	ppbv	99
42) Bromodichloromethane	7.81	83	2077654	9.321	ppbv	97
43) Methyl Methacrylate	8.03	69	864272	9.899	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3596743	9.133	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1250500	10.939	ppbv	98
46) cis-1,3-Dichloropropene	8.73	75	1356656	10.441	ppbv	96
47) 1,1,2-Trichloroethane	9.50	97	889790	9.130	ppbv	95
48) Dibromochloromethane	10.34	129	1740558	9.746	ppbv	100
49) Bromoform	13.09	173	1575119	10.045	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2363558	9.352	ppbv	100
51) 2-Hexanone	10.16	43	1966600	9.884	ppbv #	99
52) Tetrachloroethene	11.26	164	794974	9.117	ppbv	97
53) Toluene	9.84	91	2369569	9.937	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1351331	9.252	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.17	131	1155330	9.062	ppbv #	63
57) Chlorobenzene	12.19	112	1893382	8.910	ppbv	99
58) Ethyl Benzene	12.75	91	3297913	9.544	ppbv	96
59) m/p-Xylene	13.03	91	5515237m	18.055	ppbv	
60) o-Xylene	13.73	91	2841316	9.262	ppbv	99
61) Styrene	13.57	104	2038360	9.965	ppbv	98
62) Isopropylbenzene	14.71	105	3628366	9.127	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	1972908	8.315	ppbv	100
64) n-propylbenzene	15.61	120	954517	9.333	ppbv	99
65) tert-Butylbenzene	16.80	119	3292403	9.141	ppbv	99
66) Benzyl Chloride	17.04	91	1622484	10.743	ppbv	99
67) sec-Butylbenzene	17.34	105	4431319	8.953	ppbv	99
69) p-Isopropyltoluene	17.70	119	3712895	9.238	ppbv	99
70) n-Butylbenzene	18.60	91	3833530	8.986	ppbv	100
71) 2-Chlorotoluene	15.50	91	2802162	9.286	ppbv	99
72) 4-Ethyltoluene	15.89	105	3172648	9.415	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	3054564	9.276	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	3182348	8.730	ppbv #	91
75) 1,3-Dichlorobenzene	17.05	146	1795160	8.553	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1791200	8.659	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1682791	8.346	ppbv	98
78) Hexachloro-1,3-Butadiene	23.43	225	1586979	8.231	ppbv	99
79) Naphthalene	22.27	128	2703032	9.419	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	1349282	12.221	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	1650198	9.327	ppbv	99

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

