

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036052.D
 Acq On : 3 Dec 2020 13:36
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:26 PM

Quant Time: Dec 03 14:22:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 03 2020
 QLast Update : Thu Dec 03 12:00:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1156676	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4159033	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	4248123m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	3270502	10.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	2273612	10.440	ppbv	99
3) Chlorodifluoromethane	2.97	51	1882689	13.592	ppbv	99
4) Chloromethane	3.13	50	915949	13.612	ppbv	99
5) Vinyl Chloride	3.24	62	1197781	13.964	ppbv	100
6) Bromomethane	3.46	94	975623	14.142	ppbv	100
7) Chloroethane	3.54	64	435674	14.431	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	3174666	12.738	ppbv	99
9) Propene	3.00	41	724516	14.291	ppbv	100
10) Heptane	8.11	43	2150227	15.355	ppbv	100
11) Trichlorofluoromethane	3.94	101	3759030	13.747	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2884928	14.170	ppbv	99
13) Ethanol	3.59	45	98813	8.984	ppbv	98
14) Bromoethene	3.73	108	1260030	13.448	ppbv	100
15) Acetone	3.84	43	1604379	12.974	ppbv	100
16) 1,3-Butadiene	3.31	39	772217	14.504	ppbv	100
17) tert-Butyl alcohol	4.28	59	1667385	10.174	ppbv	100
18) 1,1-Dichloroethene	4.28	96	1332734	14.258	ppbv	97
19) Isopropyl Alcohol	3.96	45	772771	10.169	ppbv	99
20) Methylene Chloride	4.33	84	1116694	12.828	ppbv	98
21) Allyl Chloride	4.40	41	981389	14.675	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	1369702	14.454	ppbv	98
23) Vinyl Acetate	5.06	43	2311522	13.335	ppbv	100
24) 1,1-Dichloroethane	5.00	63	2277061	13.789	ppbv	100
25) Ethyl Acetate	5.67	43	3513475	14.423	ppbv	100
26) Hexane	5.67	57	1868877	13.911	ppbv	99
27) Carbon Disulfide	4.54	76	3004792	14.926	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	2921916	12.111	ppbv	100
29) Chloroform	5.74	83	3515497	13.313	ppbv	97
30) Cyclohexane	7.12	84	1936954	13.237	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1918155	13.879	ppbv	99
32) 1,1,1-Trichloroethane	6.50	97	3379493	12.264	ppbv	100
34) 2-Butanone	5.23	43	2198676	16.289	ppbv	99
35) Carbon Tetrachloride	7.01	117	3400835	15.304	ppbv	98
36) Benzene	6.88	78	4426271	14.315	ppbv	99
37) 1,2-Dichloroethane	6.30	62	2236210	15.964	ppbv	99
38) Trichloroethene	7.83	130	2061051	13.647	ppbv	99
39) 1,2-Dichloropropane	7.61	63	1614724	15.512	ppbv	99
40) 1,4-Dioxane	7.82	88	546788	11.083	ppbv	92
41) Tetrahydrofuran	6.04	42	1281050	16.705	ppbv	99
42) Bromodichloromethane	7.79	83	3766497	15.936	ppbv	98
43) Methyl Methacrylate	8.01	69	1906902	16.169	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	6157788	15.050	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	2040851	16.324	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	2505539	15.824	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	2084950	14.699	ppbv	98
48) Dibromochloromethane	10.30	129	3355329	15.484	ppbv	99
49) Bromoform	13.04	173	2699061	14.761	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	3516294	17.037	ppbv	98
51) 2-Hexanone	10.13	43	2874093	17.335	ppbv #	98
52) Tetrachloroethene	11.22	164	1856109	12.671	ppbv	98
53) Toluene	9.80	91	5354885	14.353	ppbv	99
54) 1,2-Dibromoethane	10.61	107	3139950	14.556	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	2578777	13.525	ppbv #	69
57) Chlorobenzene	12.14	112	4286851	12.692	ppbv	96
58) Ethyl Benzene	12.71	91	6773064	13.091	ppbv	94
59) m/p-Xylene	12.99	91	11575229m	26.443	ppbv	
60) o-Xylene	13.69	91	5716270	13.424	ppbv	98
61) Styrene	13.52	104	4123690	13.217	ppbv	98
62) Isopropylbenzene	14.66	105	8130946	12.148	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.67	83	4112303	12.463	ppbv	100
64) n-propylbenzene	15.56	120	2448101	12.654	ppbv	87
65) tert-Butylbenzene	16.74	119	7119506	11.687	ppbv	98
66) Benzyl Chloride	16.99	91	2314951	11.496	ppbv	99
67) sec-Butylbenzene	17.29	105	9334212	11.370	ppbv	96
69) p-Isopropyltoluene	17.65	119	7667186	11.317	ppbv	97
70) n-Butylbenzene	18.55	91	7613782	11.670	ppbv	97
71) 2-Chlorotoluene	15.45	91	6184036	12.632	ppbv	97
72) 4-Ethyltoluene	15.84	105	6489542	12.565	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	5953514	12.596	ppbv	95
74) 1,2,4-Trimethylbenzene	16.76	105	6143303	12.131	ppbv	96
75) 1,3-Dichlorobenzene	17.00	146	3706388	11.494	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	3609237	11.603	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	3462149	11.014	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	1963927	13.390	ppbv	99
79) Naphthalene	22.19	128	4324965	12.251	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	1428351	24.827	ppbv	99
81) 1,2,4-Trichlorobenzene	21.92	180	2533237	12.843	ppbv	99

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

