

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035710.D
 Acq On : 23 Sep 2020 7:11
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 9/24/2020 1:35:24 PM

Quant Time: Sep 23 07:42:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1231934	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4775455	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5077833	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3676910	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2210727	10.370	ppbv	97
3) Chlorodifluoromethane	2.98	51	1765700	13.116	ppbv	99
4) Chloromethane	3.13	50	968905	13.438	ppbv	98
5) Vinyl Chloride	3.25	62	1156566	12.927	ppbv	96
6) Bromomethane	3.47	94	992778	13.345	ppbv	98
7) Chloroethane	3.56	64	430582	13.674	ppbv	99
8) Dichlorotetrafluoroethane	3.18	85	2928093	11.465	ppbv	100
9) Propene	3.01	41	706569	13.631	ppbv	100
10) Heptane	8.14	43	2051925	14.499	ppbv	99
11) Trichlorofluoromethane	3.95	101	3681433	11.984	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2834144	12.249	ppbv	99
13) Ethanol	3.61	45	151714	11.797	ppbv	97
14) Bromoethene	3.74	108	1299806	13.139	ppbv	100
15) Acetone	3.85	43	1601217	11.975	ppbv	99
16) 1,3-Butadiene	3.32	39	733898	14.575	ppbv	99
17) tert-Butyl alcohol	4.30	59	1886103	11.713	ppbv	100
18) 1,1-Dichloroethene	4.29	96	1347655	13.238	ppbv	99
19) Isopropyl Alcohol	3.97	45	953307	12.111	ppbv	98
20) Methylene Chloride	4.35	84	1133872	11.260	ppbv	97
21) Allyl Chloride	4.41	41	961390	15.189	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	1414954	13.035	ppbv	99
23) Vinyl Acetate	5.08	43	2492748	14.463	ppbv	99
24) 1,1-Dichloroethane	5.02	63	2395556	13.421	ppbv	99
25) Ethyl Acetate	5.69	43	3277017	13.614	ppbv	99
26) Hexane	5.70	57	1854510	13.634	ppbv	99
27) Carbon Disulfide	4.55	76	2977309	15.339	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	3117161	13.475	ppbv	99
29) Chloroform	5.76	83	3626478	13.194	ppbv	99
30) Cyclohexane	7.14	84	2064468	14.398	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	1988634	14.414	ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	3562212	13.402	ppbv	99
34) 2-Butanone	5.25	43	2311532	15.908	ppbv	99
35) Carbon Tetrachloride	7.03	117	3678720	15.243	ppbv	99
36) Benzene	6.91	78	4562182	14.603	ppbv	98
37) 1,2-Dichloroethane	6.32	62	2290752	15.232	ppbv	99
38) Trichloroethene	7.85	130	2275886	12.687	ppbv	99
39) 1,2-Dichloropropane	7.63	63	1618022	15.230	ppbv	99
40) 1,4-Dioxane	7.84	88	724767	13.991	ppbv #	1
41) Tetrahydrofuran	6.06	42	1323902	17.206	ppbv	100
42) Bromodichloromethane	7.81	83	3844499	15.851	ppbv	98
43) Methyl Methacrylate	8.03	69	2019152	16.581	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5990919	14.382	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	2326500	18.920	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2706282	17.715	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	2276575	14.635	ppbv	99
48) Dibromochloromethane	10.33	129	3828852	15.771	ppbv	99
49) Bromoform	13.07	173	3452748	15.968	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3414290	16.173	ppbv	99
51) 2-Hexanone	10.15	43	2951725	17.092	ppbv #	98
52) Tetrachloroethene	11.25	164	2178165	12.245	ppbv	97
53) Toluene	9.83	91	5642523	14.412	ppbv	98
54) 1,2-Dibromoethane	10.64	107	3572808	14.593	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	2928771	14.041	ppbv	97
57) Chlorobenzene	12.18	112	4754528	12.553	ppbv	97
58) Ethyl Benzene	12.74	91	7258195	13.611	ppbv	95
59) m/p-Xylene	13.03	91	11751296m	26.202	ppbv	
60) o-Xylene	13.72	91	6147242	13.629	ppbv	98
61) Styrene	13.56	104	4997168	14.671	ppbv	98
62) Isopropylbenzene	14.70	105	8840584	12.308	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.71	83	4540881	13.008	ppbv	99
64) n-propylbenzene	15.59	120	2980879	13.706	ppbv	84
65) tert-Butylbenzene	16.78	119	8287798	12.466	ppbv	97
66) Benzyl Chloride	17.02	91	3632821	21.285	ppbv	98
67) sec-Butylbenzene	17.33	105	10647079	11.950	ppbv	95
69) p-Isopropyltoluene	17.69	119	9313448	12.025	ppbv	96
70) n-Butylbenzene	18.59	91	9339852	12.401	ppbv	95
71) 2-Chlorotoluene	15.48	91	7123294	13.561	ppbv	97
72) 4-Ethyltoluene	15.87	105	7549981	13.305	ppbv	97
73) 1,3,5-Trimethylbenzene	16.03	105	7060708	13.439	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	7194721	12.457	ppbv	92
75) 1,3-Dichlorobenzene	17.03	146	4953108	11.811	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	5030498	12.162	ppbv	98
77) 1,2-Dichlorobenzene	17.85	146	4912787	12.100	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	2815855	11.085	ppbv	100
79) Naphthalene	22.24	128	8051466	12.984	ppbv	96
80) Naphthalene, 2-methyl-	25.00	142	3084263	15.282	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	4156272	11.430	ppbv	99

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

