

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035936.D
 Acq On : 13 Nov 2020 8:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 11/16/2020 2:31:38 PM

Quant Time: Nov 13 11:31:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	2060402	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	7191775	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	7035828m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	5481508	10.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2055952	5.300	ppbv	100
3) Chlorodifluoromethane	2.98	51	1315928	5.333	ppbv	99
4) Chloromethane	3.13	50	661707	5.520	ppbv	99
5) Vinyl Chloride	3.25	62	813816	5.326	ppbv	98
6) Bromomethane	3.47	94	665388	5.415	ppbv	98
7) Chloroethane	3.55	64	306353	5.697	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	2340584	5.272	ppbv	97
9) Propene	3.00	41	474925	5.259	ppbv	98
10) Heptane	8.12	43	1475844	5.917	ppbv	99
11) Trichlorofluoromethane	3.94	101	2799970	5.748	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2089386	5.761	ppbv	99
13) Ethanol	3.60	45	92715	4.732	ppbv	93
14) Bromoethene	3.73	108	860653	5.157	ppbv	99
15) Acetone	3.84	43	1217882	5.529	ppbv	99
16) 1,3-Butadiene	3.32	39	529412	5.582	ppbv	96
17) tert-Butyl alcohol	4.29	59	1355997	4.645	ppbv	99
18) 1,1-Dichloroethene	4.28	96	925668	5.559	ppbv	94
19) Isopropyl Alcohol	3.96	45	638441	4.716	ppbv #	95
20) Methylene Chloride	4.34	84	806165	5.199	ppbv	99
21) Allyl Chloride	4.41	41	688517	5.780	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	958595	5.679	ppbv	99
23) Vinyl Acetate	5.07	43	1618014	5.240	ppbv	98
24) 1,1-Dichloroethane	5.01	63	1623954	5.521	ppbv	100
25) Ethyl Acetate	5.68	43	2428498	5.596	ppbv	99
26) Hexane	5.68	57	1282731	5.360	ppbv	97
27) Carbon Disulfide	4.55	76	2032713	5.669	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2148769	5.000	ppbv	100
29) Chloroform	5.75	83	2545111	5.411	ppbv	98
30) Cyclohexane	7.13	84	1352539	5.189	ppbv	94
31) cis-1,2-Dichloroethene	5.55	61	1327641	5.393	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	2461547	5.015	ppbv	99
34) 2-Butanone	5.24	43	1585915	6.795	ppbv	96
35) Carbon Tetrachloride	7.02	117	2464342	6.413	ppbv	100
36) Benzene	6.89	78	3160067	5.910	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1606048	6.631	ppbv	98
38) Trichloroethene	7.84	130	1477974	5.659	ppbv	98
39) 1,2-Dichloropropane	7.62	63	1125976	6.255	ppbv	99
40) 1,4-Dioxane	7.83	88	476185	5.582	ppbv	74
41) Tetrahydrofuran	6.05	42	897230	6.766	ppbv	96
42) Bromodichloromethane	7.80	83	2611186	6.389	ppbv	98
43) Methyl Methacrylate	8.02	69	1320335	6.474	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4470736	6.319	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	1398531	6.469	ppbv	98
46) cis-1,3-Dichloropropene	8.71	75	1727665	6.310	ppbv	96
47) 1,1,2-Trichloroethane	9.48	97	1486513	6.061	ppbv	99
48) Dibromochloromethane	10.31	129	2431791	6.490	ppbv	99
49) Bromoform	13.05	173	2090208	6.611	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2515247	7.047	ppbv	98
51) 2-Hexanone	10.14	43	2063556	7.198	ppbv #	97
52) Tetrachloroethene	11.23	164	1352328	5.339	ppbv	99
53) Toluene	9.81	91	3864869	5.991	ppbv	99
54) 1,2-Dibromoethane	10.62	107	2258203	6.054	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.13	131	1919699	6.079	ppbv #	31
57) Chlorobenzene	12.16	112	3226332	5.767	ppbv	99
58) Ethyl Benzene	12.72	91	5124616	5.980	ppbv	100
59) m/p-Xylene	13.00	91	8857484m	12.217	ppbv	
60) o-Xylene	13.70	91	4365568	6.190	ppbv	98
61) Styrene	13.54	104	3223927	6.239	ppbv	99
62) Isopropylbenzene	14.68	105	6469432	5.836	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	3255135	5.957	ppbv	99
64) n-propylbenzene	15.57	120	1924606	6.007	ppbv	95
65) tert-Butylbenzene	16.75	119	5982414	5.929	ppbv	97
66) Benzyl Chloride	17.00	91	2204789	6.611	ppbv	99
67) sec-Butylbenzene	17.30	105	8128512	5.978	ppbv	99
69) p-Isopropyltoluene	17.66	119	6836490	6.093	ppbv	98
70) n-Butylbenzene	18.56	91	7055169	6.529	ppbv	99
71) 2-Chlorotoluene	15.46	91	5011543	6.181	ppbv	97
72) 4-Ethyltoluene	15.85	105	5252160	6.140	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	4916463	6.281	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	5207293	6.208	ppbv	99
75) 1,3-Dichlorobenzene	17.01	146	3251353	6.088	ppbv	98
76) 1,4-Dichlorobenzene	17.15	146	3165287	6.144	ppbv	98
77) 1,2-Dichlorobenzene	17.83	146	3180867	6.110	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	1864875	7.677	ppbv	99
79) Naphthalene	22.21	128	4744770	8.115	ppbv	100
80) Naphthalene, 2-methyl-	24.98	142	1202474	12.620	ppbv	99
81) 1,2,4-Trichlorobenzene	21.94	180	2388378	7.311	ppbv	99

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

