

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
 Data File : VL035040.D
 Acq On : 15 May 2020 10:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/18/2020 1:35:35 PM

Quant Time: May 16 00:45:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1105463	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2613638	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2718490	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2119148	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1352797	8.622	ppbv 99
3) Chlorodifluoromethane	2.94	51	1176392	9.321	ppbv 100
4) Chloromethane	3.10	50	673230	9.308	ppbv 95
5) Vinyl Chloride	3.21	62	659268	9.343	ppbv 95
6) Bromomethane	3.43	94	381889	9.064	ppbv 85
7) Chloroethane	3.52	64	240287	9.482	ppbv 99
8) Dichlorotetrafluoroethane	3.14	85	1481642	9.125	ppbv 99
9) Propene	2.96	41	517372	9.447	ppbv 99
10) Heptane	8.13	43	1378650	10.048	ppbv 100
11) Trichlorofluoromethane	3.92	101	1514638	9.363	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1037234	9.004	ppbv 100
13) Ethanol	3.57	45	144458	7.993	ppbv 99
14) Bromoethene	3.70	108	467178	9.814	ppbv 98
15) Acetone	3.82	43	1242250	8.500	ppbv 98
16) 1,3-Butadiene	3.29	39	603825	9.601	ppbv 99
17) tert-Butyl alcohol	4.26	59	1237828	9.519	ppbv 99
18) 1,1-Dichloroethene	4.26	96	496511	9.935	ppbv 97
19) Isopropyl Alcohol	3.93	45	887864	9.110	ppbv 100
20) Methylene Chloride	4.32	84	426611	8.818	ppbv 96
21) Allyl Chloride	4.38	41	827100	10.019	ppbv 97
22) trans-1,2-Dichloroethene	4.86	96	477648	9.649	ppbv 97
23) Vinyl Acetate	5.05	43	1871758	10.100	ppbv 99
24) 1,1-Dichloroethane	4.99	63	1318166	9.235	ppbv 99
25) Ethyl Acetate	5.66	43	2384279	9.712	ppbv 100
26) Hexane	5.67	57	1036768	9.742	ppbv 99
27) Carbon Disulfide	4.52	76	1187087	9.463	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1571680	9.696	ppbv 99
29) Chloroform	5.74	83	1590919	9.136	ppbv 97
30) Cyclohexane	7.13	84	858435	10.452	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	1062794	10.235	ppbv 96
32) 1,1,1-Trichloroethane	6.51	97	1514828	9.633	ppbv 100
34) 2-Butanone	5.22	43	1555640	9.577	ppbv 100
35) Carbon Tetrachloride	7.02	117	1536463	9.314	ppbv 98
36) Benzene	6.89	78	2081949	9.662	ppbv 99
37) 1,2-Dichloroethane	6.30	62	1247508	9.385	ppbv 100
38) Trichloroethene	7.84	130	792461	9.493	ppbv 98
39) 1,2-Dichloropropane	7.62	63	832832	9.641	ppbv 98
40) 1,4-Dioxane	7.83	88	317932	9.055	ppbv 93
41) Tetrahydrofuran	6.04	42	868268	10.152	ppbv 99
42) Bromodichloromethane	7.80	83	1659899	9.259	ppbv 99
43) Methyl Methacrylate	8.02	69	945176	10.388	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3569119	9.316	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1030156	11.219	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1231528	10.924	ppbv	99
47) 1,1,2-Trichloroethane	9.49	97	838474	9.198	ppbv	95
48) Dibromochloromethane	10.33	129	1337279	9.540	ppbv	100
49) Bromoform	13.08	173	1109983	9.202	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2302374	9.940	ppbv	99
51) 2-Hexanone	10.15	43	1885088	10.405	ppbv #	99
52) Tetrachloroethene	11.25	164	727979	9.501	ppbv	97
53) Toluene	9.82	91	2376137	10.402	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1283817	9.591	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	1011676	8.252	ppbv #	57
57) Chlorobenzene	12.18	112	1752569	8.138	ppbv	98
58) Ethyl Benzene	12.74	91	3157774	9.394	ppbv	97
59) m/p-Xylene	13.02	91	5159930m	17.446	ppbv	
60) o-Xylene	13.73	91	2549778	8.736	ppbv	100
61) Styrene	13.56	104	1825787	9.885	ppbv	99
62) Isopropylbenzene	14.70	105	3756244	8.620	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1750638	7.620	ppbv	100
64) n-propylbenzene	15.60	120	974405	8.718	ppbv	98
65) tert-Butylbenzene	16.78	119	3232273	8.553	ppbv	100
66) Benzyl Chloride	17.03	91	1165007	9.080	ppbv	98
67) sec-Butylbenzene	17.33	105	4678380	8.672	ppbv	99
69) p-Isopropyltoluene	17.69	119	3919279	8.980	ppbv	99
70) n-Butylbenzene	18.59	91	4262663	9.176	ppbv	99
71) 2-Chlorotoluene	15.49	91	2914388	8.860	ppbv	99
72) 4-Ethyltoluene	15.87	105	2974619	9.135	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2791274	8.809	ppbv	100
74) 1,2,4-Trimethylbenzene	16.80	105	2915556	8.429	ppbv	98
75) 1,3-Dichlorobenzene	17.04	146	1703169	8.386	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1701721	8.818	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1673847	8.747	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	1549727	9.500	ppbv	98
79) Naphthalene	22.25	128	3419451	12.695	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1075417	16.243	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1799683	11.018	ppbv	100

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

