

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035076.D
 Acq On : 20 May 2020 11:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:28:51 PM

Quant Time: May 20 14:16:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 20
 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	1148300	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2737631	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	2724281m	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2183800	9.90	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1425709	8.748	ppbv 99
3) Chlorodifluoromethane	2.93	51	1308593	9.981	ppbv 98
4) Chloromethane	3.09	50	759680	10.111	ppbv 100
5) Vinyl Chloride	3.20	62	738281	10.073	ppbv 98
6) Bromomethane	3.42	94	423224	9.671	ppbv 92
7) Chloroethane	3.51	64	265602	10.090	ppbv 95
8) Dichlorotetrafluoroethane	3.14	85	1584546	9.395	ppbv 98
9) Propene	2.96	41	638621	11.226	ppbv 100
10) Heptane	8.11	43	1596617	11.202	ppbv 97
11) Trichlorofluoromethane	3.91	101	1574579	9.370	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1129638	9.441	ppbv 98
13) Ethanol	3.56	45	168634	8.983	ppbv 99
14) Bromoethene	3.69	108	510481	10.324	ppbv 98
15) Acetone	3.80	43	1341867	8.839	ppbv 99
16) 1,3-Butadiene	3.28	39	690082	10.563	ppbv 97
17) tert-Butyl alcohol	4.25	59	1348962	9.987	ppbv 98
18) 1,1-Dichloroethene	4.25	96	526796	10.148	ppbv 96
19) Isopropyl Alcohol	3.93	45	993520	9.814	ppbv 99
20) Methylene Chloride	4.30	84	453452	9.023	ppbv 95
21) Allyl Chloride	4.37	41	924064	10.776	ppbv 98
22) trans-1,2-Dichloroethene	4.85	96	521154	10.135	ppbv 94
23) Vinyl Acetate	5.04	43	2142565	11.130	ppbv 98
24) 1,1-Dichloroethane	4.98	63	1445138	9.746	ppbv 98
25) Ethyl Acetate	5.65	43	2717077	10.655	ppbv 100
26) Hexane	5.66	57	1177608	10.652	ppbv 98
27) Carbon Disulfide	4.51	76	1287442	9.881	ppbv 99
28) Methyl tert-Butyl Ether	5.00	73	1742722	10.351	ppbv 98
29) Chloroform	5.73	83	1725167	9.538	ppbv 99
30) Cyclohexane	7.11	84	982012	11.511	ppbv 98
31) cis-1,2-Dichloroethene	5.52	61	1193990	11.069	ppbv 96
32) 1,1,1-Trichloroethane	6.49	97	1639563	10.037	ppbv 99
34) 2-Butanone	5.21	43	1817584	10.682	ppbv 99
35) Carbon Tetrachloride	7.01	117	1645361	9.522	ppbv 96
36) Benzene	6.88	78	2358941	10.451	ppbv 98
37) 1,2-Dichloroethane	6.29	62	1331133	9.561	ppbv 99
38) Trichloroethene	7.83	130	885384	10.126	ppbv 98
39) 1,2-Dichloropropane	7.60	63	927826	10.254	ppbv 96
40) 1,4-Dioxane	7.82	88	359114	9.765	ppbv 92
41) Tetrahydrofuran	6.02	42	1054410	11.770	ppbv 98
42) Bromodichloromethane	7.78	83	1812849	9.654	ppbv 97
43) Methyl Methacrylate	8.01	69	1060449	11.127	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4045542	10.082	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1148346	11.939	ppbv	97
46) cis-1,3-Dichloropropene	8.70	75	1374598	11.641	ppbv	96
47) 1,1,2-Trichloroethane	9.48	97	947427	9.923	ppbv	94
48) Dibromochloromethane	10.31	129	1480314	10.082	ppbv	100
49) Bromoform	13.06	173	1234490	9.771	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2623407	10.812	ppbv	99
51) 2-Hexanone	10.13	43	2155218	11.357	ppbv	98
52) Tetrachloroethene	11.23	164	807107	10.057	ppbv	99
53) Toluene	9.81	91	2703110	11.298	ppbv	100
54) 1,2-Dibromoethane	10.62	107	1427915	10.184	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.13	131	1125438	9.161	ppbv	99
57) Chlorobenzene	12.16	112	1967826	9.118	ppbv	98
58) Ethyl Benzene	12.72	91	3513699	10.430	ppbv	100
59) m/p-Xylene	12.98	91	5759765m	19.433	ppbv	
60) o-Xylene	13.71	91	2817310	9.633	ppbv	100
61) Styrene	13.54	104	2066714	11.166	ppbv	98
62) Isopropylbenzene	14.68	105	4169783	9.549	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	1930838	8.386	ppbv	99
64) n-propylbenzene	15.58	120	1106547	9.879	ppbv	98
65) tert-Butylbenzene	16.77	119	3604185	9.516	ppbv	99
66) Benzyl Chloride	17.01	91	1330160	10.345	ppbv	97
67) sec-Butylbenzene	17.32	105	5177391	9.576	ppbv	100
69) p-Isopropyltoluene	17.67	119	4324186	9.886	ppbv	99
70) n-Butylbenzene	18.57	91	4657325	10.005	ppbv	99
71) 2-Chlorotoluene	15.47	91	3252521	9.867	ppbv	99
72) 4-Ethyltoluene	15.86	105	3342533	10.243	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	3109507	9.792	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	3205892	9.249	ppbv	99
75) 1,3-Dichlorobenzene	17.02	146	1901509	9.342	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1889092	9.768	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	1865990	9.730	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	1725346	10.554	ppbv	99
79) Naphthalene	22.23	128	3864727m	14.318	ppbv	
80) Naphthalene, 2-methyl-	24.99	142	1209170	18.224	ppbv	98
81) 1,2,4-Trichlorobenzene	21.97	180	2025143	12.372	ppbv	100

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

