

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035042.D
 Acq On : 19 May 2020 12:09
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:26:46 PM

Quant Time: May 20 04:58:20 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	1165171	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2700809	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2708726	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2194514	10.01	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1221508	7.387	ppbv 99
3) Chlorodifluoromethane	2.93	51	1201245	9.030	ppbv 100
4) Chloromethane	3.09	50	692727	9.086	ppbv 99
5) Vinyl Chloride	3.21	62	684921	9.209	ppbv 99
6) Bromomethane	3.43	94	403981	9.097	ppbv 92
7) Chloroethane	3.51	64	245755	9.201	ppbv # 89
8) Dichlorotetrafluoroethane	3.14	85	1518630	8.874	ppbv 100
9) Propene	2.96	41	512095	8.871	ppbv 98
10) Heptane	8.12	43	1404272	9.710	ppbv 99
11) Trichlorofluoromethane	3.91	101	1580733	9.270	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1093188	9.004	ppbv 98
13) Ethanol	3.56	45	160740	8.438	ppbv 98
14) Bromoethene	3.70	108	477120	9.509	ppbv 97
15) Acetone	3.81	43	1244361	8.078	ppbv 100
16) 1,3-Butadiene	3.28	39	618220	9.326	ppbv 100
17) tert-Butyl alcohol	4.25	59	1239745	9.046	ppbv 100
18) 1,1-Dichloroethene	4.25	96	507432	9.633	ppbv 92
19) Isopropyl Alcohol	3.92	45	951647	9.264	ppbv # 99
20) Methylene Chloride	4.31	84	439669	8.622	ppbv 91
21) Allyl Chloride	4.38	41	852697	9.800	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	493323	9.455	ppbv 97
23) Vinyl Acetate	5.04	43	1868187	9.564	ppbv 99
24) 1,1-Dichloroethane	4.98	63	1382055	9.186	ppbv 99
25) Ethyl Acetate	5.65	43	2410892	9.318	ppbv 100
26) Hexane	5.66	57	1067636	9.518	ppbv 100
27) Carbon Disulfide	4.51	76	1263913	9.560	ppbv 99
28) Methyl tert-Butyl Ether	5.00	73	1580572	9.252	ppbv 100
29) Chloroform	5.73	83	1649793	8.989	ppbv 99
30) Cyclohexane	7.12	84	884500	10.218	ppbv 99
31) cis-1,2-Dichloroethene	5.53	61	1077870	9.848	ppbv 97
32) 1,1,1-Trichloroethane	6.50	97	1559728	9.410	ppbv 99
34) 2-Butanone	5.21	43	1574614	9.380	ppbv 99
35) Carbon Tetrachloride	7.01	117	1612242	9.458	ppbv 99
36) Benzene	6.88	78	2133081	9.580	ppbv 99
37) 1,2-Dichloroethane	6.29	62	1306991	9.515	ppbv 99
38) Trichloroethene	7.83	130	817672	9.479	ppbv 99
39) 1,2-Dichloropropane	7.61	63	830917	9.309	ppbv 98
40) 1,4-Dioxane	7.82	88	347452	9.576	ppbv 95
41) Tetrahydrofuran	6.03	42	871277	9.859	ppbv 99
42) Bromodichloromethane	7.79	83	1761676	9.510	ppbv 98
43) Methyl Methacrylate	8.01	69	978191	10.403	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	3677784	9.290	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1071490	11.292	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1270631	10.907	ppbv	97
47) 1,1,2-Trichloroethane	9.48	97	903541	9.592	ppbv	97
48) Dibromochloromethane	10.31	129	1442218	9.956	ppbv	100
49) Bromoform	13.06	173	1254220	10.063	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	2350232	9.819	ppbv	99
51) 2-Hexanone	10.13	43	1937280	10.348	ppbv #	99
52) Tetrachloroethene	11.23	164	731201	9.235	ppbv	99
53) Toluene	9.81	91	2443461	10.352	ppbv	100
54) 1,2-Dibromoethane	10.62	107	1345920	9.730	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.14	131	1082620	8.863	ppbv	97
57) Chlorobenzene	12.16	112	1840621	8.577	ppbv	99
58) Ethyl Benzene	12.73	91	3306982	9.873	ppbv	100
59) m/p-Xylene	12.99	91	5444027m	18.473	ppbv	
60) o-Xylene	13.71	91	2708645	9.314	ppbv	100
61) Styrene	13.55	104	1945878	10.573	ppbv	99
62) Isopropylbenzene	14.69	105	3996617	9.205	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	1917416	8.376	ppbv	99
64) n-propylbenzene	15.58	120	1037519	9.316	ppbv	98
65) tert-Butylbenzene	16.77	119	3417208	9.075	ppbv	100
66) Benzyl Chloride	17.02	91	1271613	9.947	ppbv	98
67) sec-Butylbenzene	17.32	105	4893753	9.104	ppbv	99
69) p-Isopropyltoluene	17.68	119	4004624	9.208	ppbv	99
70) n-Butylbenzene	18.58	91	4232232	9.144	ppbv	99
71) 2-Chlorotoluene	15.47	91	3073603	9.378	ppbv	100
72) 4-Ethyltoluene	15.86	105	3145428	9.695	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	2920883	9.251	ppbv	100
74) 1,2,4-Trimethylbenzene	16.79	105	3041872	8.826	ppbv	99
75) 1,3-Dichlorobenzene	17.03	146	1703987	8.420	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1738607	9.042	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1647246	8.639	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1377516	8.475	ppbv	100
79) Naphthalene	22.24	128	3029262	11.287	ppbv	100
80) Naphthalene, 2-methyl-	25.00	142	1351178	20.481	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	1572884	9.665	ppbv	100

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

