

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034702.D
 Acq On : 27 Feb 2020 00:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:20:21 PM

Quant Time: Feb 27 08:49:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 27 2020
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1008752	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2118686	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2241901	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1799835	9.79	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1331526	8.367	ppbv	96
3) Chlorodifluoromethane	2.97	51	1060290	9.740	ppbv	99
4) Chloromethane	3.12	50	600564	9.855	ppbv	91
5) Vinyl Chloride	3.24	62	587266	9.823	ppbv	98
6) Bromomethane	3.46	94	348585	9.952	ppbv	97
7) Chloroethane	3.54	64	216801	9.768	ppbv	92
8) Dichlorotetrafluoroethane	3.17	85	1319970	9.378	ppbv	100
9) Propene	2.99	41	452136	9.936	ppbv	99
10) Heptane	8.16	43	1204467	10.283	ppbv	99
11) Trichlorofluoromethane	3.94	101	1359834	9.756	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	940951	9.577	ppbv	99
13) Ethanol	3.60	45	143870	10.008	ppbv	96
14) Bromoethene	3.73	108	412862	10.072	ppbv	99
15) Acetone	3.84	43	1110779	9.663	ppbv	99
16) 1,3-Butadiene	3.31	39	534890	10.052	ppbv	99
17) tert-Butyl alcohol	4.29	59	1076411	12.220	ppbv	100
18) 1,1-Dichloroethene	4.29	96	438074	9.932	ppbv	91
19) Isopropyl Alcohol	3.96	45	795932	11.625	ppbv #	99
20) Methylene Chloride	4.34	84	376051	8.796	ppbv	92
21) Allyl Chloride	4.41	41	774361	10.182	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	435621	10.129	ppbv	95
23) Vinyl Acetate	5.09	43	1696728	10.858	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1212909	9.719	ppbv	99
25) Ethyl Acetate	5.70	43	2050496	10.077	ppbv	99
26) Hexane	5.71	57	919892	9.809	ppbv	98
27) Carbon Disulfide	4.56	76	1121234	10.532	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1425400	10.639	ppbv	99
29) Chloroform	5.77	83	1425959	9.543	ppbv	99
30) Cyclohexane	7.17	84	766010	10.539	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	955768	10.356	ppbv	93
32) 1,1,1-Trichloroethane	6.54	97	1394894	9.997	ppbv	99
34) 2-Butanone	5.26	43	1345546	10.090	ppbv	98
35) Carbon Tetrachloride	7.05	117	1420601	10.012	ppbv	100
36) Benzene	6.92	78	1814578	9.916	ppbv	96
37) 1,2-Dichloroethane	6.34	62	1154933	10.012	ppbv	100
38) Trichloroethene	7.88	130	674804	9.567	ppbv	97
39) 1,2-Dichloropropane	7.65	63	734479	10.089	ppbv	96
40) 1,4-Dioxane	7.87	88	279708m	11.298	ppbv	
41) Tetrahydrofuran	6.07	42	746169	10.601	ppbv	100
42) Bromodichloromethane	7.83	83	1522807	10.084	ppbv	98
43) Methyl Methacrylate	8.05	69	830650	10.792	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3150892	9.852	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	989420	11.780	ppbv	98
46) cis-1,3-Dichloropropene	8.75	75	1139450	11.312	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	732737	9.811	ppbv	99
48) Dibromochloromethane	10.36	129	1195023	10.290	ppbv	98
49) Bromoform	13.11	173	1026866	10.198	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	1983354	10.500	ppbv	100
51) 2-Hexanone	10.18	43	1613584	10.855	ppbv	99
52) Tetrachloroethene	11.28	164	621430	9.265	ppbv	97
53) Toluene	9.86	91	2053044	10.549	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1110105	9.963	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.19	131	900846	9.435	ppbv	98
57) Chlorobenzene	12.21	112	1487068	8.974	ppbv	98
58) Ethyl Benzene	12.78	91	2715882m	10.013	ppbv	
59) m/p-Xylene	13.06	91	4527447m	19.138	ppbv	
60) o-Xylene	13.76	91	2206991	9.401	ppbv	100
61) Styrene	13.60	104	1571671	10.422	ppbv	98
62) Isopropylbenzene	14.74	105	3189885	9.315	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1555596	8.502	ppbv	100
64) n-propylbenzene	15.63	120	830760	9.410	ppbv	94
65) tert-Butylbenzene	16.82	119	2749525	9.298	ppbv	99
66) Benzyl Chloride	17.07	91	1250709	11.339	ppbv	99
67) sec-Butylbenzene	17.37	105	3958470	9.303	ppbv	99
69) p-Isopropyltoluene	17.73	119	3277047	9.356	ppbv	100
70) n-Butylbenzene	18.63	91	3574277	9.371	ppbv	100
71) 2-Chlorotoluene	15.52	91	2489676	9.387	ppbv	100
72) 4-Ethyltoluene	15.91	105	2559767	9.797	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2428624	9.662	ppbv	96
74) 1,2,4-Trimethylbenzene	16.84	105	2548097	9.179	ppbv	93
75) 1,3-Dichlorobenzene	17.07	146	1434876	8.955	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1445321	9.015	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1426121	9.206	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1267928	9.400	ppbv	99
79) Naphthalene	22.30	128	2562998	10.491	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	1107501	14.698	ppbv	97
81) 1,2,4-Trichlorobenzene	22.03	180	1450242	9.946	ppbv	99

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

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