

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034878.D
 Acq On : 10 Mar 2020 22:50
 Operator : SY/AP
 Sample : L1161-15 0.1 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:17:49 PM

Quant Time: Mar 11 07:59:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	872987	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1935932	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1878518	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1558781	10.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	23693	0.198	ppbv	88
3) Chlorodifluoromethane	2.95	51	13420	0.138	ppbv #	87
4) Chloromethane	3.10	50	6994m	0.127	ppbv	
5) Vinyl Chloride	3.22	62	7042m	0.133	ppbv	
6) Bromomethane	3.45	94	4260m	0.138	ppbv	
7) Chloroethane	3.53	64	2898m	0.151	ppbv	
8) Dichlorotetrafluoroethane	3.15	85	19121	0.154	ppbv	98
9) Propene	2.97	41	7553m	0.162	ppbv	
10) Heptane	8.14	43	10731m	0.094	ppbv	
11) Trichlorofluoromethane	3.92	101	20597m	0.162	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	13616	0.153	ppbv	95
13) Ethanol	3.60	45	2305m	0.163	ppbv	
14) Bromoethene	3.71	108	5207m	0.135	ppbv	
15) Acetone	3.85	43	25444	0.225	ppbv #	85
16) 1,3-Butadiene	3.29	39	7249m	0.142	ppbv	
17) tert-Butyl alcohol	4.31	59	16062m	0.147	ppbv	
18) 1,1-Dichloroethene	4.27	96	5856m	0.149	ppbv	
19) Isopropyl Alcohol	3.97	45	10822m	0.151	ppbv	
20) Methylene Chloride	4.32	84	9093	0.254	ppbv #	75
21) Allyl Chloride	4.39	41	7632m	0.105	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	5246m	0.131	ppbv	
23) Vinyl Acetate	5.07	43	14844m	0.089	ppbv	
24) 1,1-Dichloroethane	4.99	63	16854	0.150	ppbv	98
25) Ethyl Acetate	5.68	43	21245m	0.105	ppbv	
26) Hexane	5.68	57	10619m	0.122	ppbv	
27) Carbon Disulfide	4.53	76	7927m	0.080	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	16381m	0.113	ppbv	
29) Chloroform	5.74	83	18632m	0.141	ppbv	
30) Cyclohexane	7.13	84	5069m	0.070	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	10417m	0.117	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	14820	0.115	ppbv	93
34) 2-Butanone	5.26	43	16502m	0.128	ppbv	
35) Carbon Tetrachloride	7.01	117	14396m	0.120	ppbv	
36) Benzene	6.90	78	18793	0.109	ppbv #	89
37) 1,2-Dichloroethane	6.30	62	14627m	0.150	ppbv	
38) Trichloroethene	7.84	130	7744m	0.118	ppbv	
39) 1,2-Dichloropropane	7.61	63	9571m	0.140	ppbv	
40) 1,4-Dioxane	7.90	88	2396m	0.093	ppbv	
41) Tetrahydrofuran	6.09	42	6088m	0.087	ppbv	
42) Bromodichloromethane	7.80	83	13596m	0.103	ppbv	
43) Methyl Methacrylate	8.03	69	7180m	0.099	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	26184m	0.090	ppbv	
45) t-1,3-Dichloropropene	9.29	75	4172m	0.049	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	7797m	0.077	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	10081m	0.144	ppbv	
48) Dibromochloromethane	10.33	129	8686m	0.076	ppbv	
49) Bromoform	13.07	173	7490m	0.074	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	16348m	0.088	ppbv	
51) 2-Hexanone	10.19	43	11713m	0.078	ppbv	
52) Tetrachloroethene	11.25	164	7546m	0.111	ppbv	
53) Toluene	9.82	91	16794m	0.084	ppbv	
54) 1,2-Dibromoethane	10.64	107	12121m	0.115	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	10188m	0.121	ppbv	
57) Chlorobenzene	12.18	112	20050m	0.136	ppbv	
58) Ethyl Benzene	12.73	91	23424m	0.092	ppbv	
59) m/p-Xylene	13.01	91	35871m	0.168	ppbv	
60) o-Xylene	13.71	91	18329m	0.088	ppbv	
61) Styrene	13.55	104	10675m	0.073	ppbv	
62) Isopropylbenzene	14.70	105	32371m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	17563m	0.124	ppbv	
64) n-propylbenzene	15.59	120	7015m	0.086	ppbv	
65) tert-Butylbenzene	16.80	119	14919m	0.054	ppbv	
66) Benzyl Chloride	17.04	91	6643m	0.058	ppbv	
67) sec-Butylbenzene	17.33	105	25201m	0.066	ppbv	
69) p-Isopropyltoluene	17.70	119	17832m	0.056	ppbv	
70) n-Butylbenzene	18.59	91	19560m	0.060	ppbv	
71) 2-Chlorotoluene	15.48	91	20649m	0.087	ppbv	
72) 4-Ethyltoluene	15.87	105	16478m	0.067	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	14236m	0.062	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	15305m	0.065	ppbv	
75) 1,3-Dichlorobenzene	17.04	146	17676m	0.124	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	15314m	0.107	ppbv	
77) 1,2-Dichlorobenzene	17.87	146	15030m	0.108	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	15302m	0.132	ppbv	
79) Naphthalene	22.28	128	7193m	0.039	ppbv	
81) 1,2,4-Trichlorobenzene	22.00	180	7148m	0.061	ppbv	

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

