

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034949.D
 Acq On : 6 May 2020 19:33
 Operator : SY/AP
 Sample : L2182-13 0.1PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:31:12 PM

Quant Time: May 07 07:27:14 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	5.66	49	1142294	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2622875	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2453671	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2053892	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	23816m	0.147	ppbv	
3) Chlorodifluoromethane	2.95	51	16469	0.126	ppbv	94
4) Chloromethane	3.11	50	8250	0.110	ppbv #	77
5) Vinyl Chloride	3.22	62	8672	0.119	ppbv	95
6) Bromomethane	3.45	94	5037	0.116	ppbv #	61
7) Chloroethane	3.53	64	3682m	0.141	ppbv	
8) Dichlorotetrafluoroethane	3.15	85	20054	0.120	ppbv	93
9) Propene	2.98	41	7871m	0.139	ppbv	
10) Heptane	8.14	43	9181m	0.065	ppbv	
11) Trichlorofluoromethane	3.92	101	18939	0.113	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.47	101	13483m	0.113	ppbv	
13) Ethanol	3.59	45	2714m	0.145	ppbv	
14) Bromoethene	3.71	108	4735m	0.096	ppbv	
15) Acetone	3.84	43	38863	0.257	ppbv #	90
16) 1,3-Butadiene	3.29	39	5363	0.083	ppbv #	80
17) tert-Butyl alcohol	4.29	59	16798m	0.125	ppbv	
18) 1,1-Dichloroethene	4.27	96	7179m	0.139	ppbv	
19) Isopropyl Alcohol	3.96	45	15000m	0.149	ppbv	
20) Methylene Chloride	4.33	84	12742m	0.255	ppbv	
21) Allyl Chloride	4.39	41	9376m	0.110	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	5695m	0.111	ppbv	
23) Vinyl Acetate	5.07	43	17946	0.094	ppbv #	81
24) 1,1-Dichloroethane	5.00	63	18249m	0.124	ppbv	
25) Ethyl Acetate	5.68	43	25883	0.102	ppbv #	89
26) Hexane	5.69	57	11251m	0.102	ppbv	
27) Carbon Disulfide	4.54	76	11786m	0.091	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	14512m	0.087	ppbv	
29) Chloroform	5.74	83	21464m	0.119	ppbv	
30) Cyclohexane	7.14	84	4161m	0.049	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	9286m	0.087	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	17835m	0.110	ppbv	
34) 2-Butanone	5.25	43	15977m	0.098	ppbv	
35) Carbon Tetrachloride	7.02	117	16559m	0.100	ppbv	
36) Benzene	6.89	78	18016m	0.083	ppbv	
37) 1,2-Dichloroethane	6.31	62	16783m	0.126	ppbv	
38) Trichloroethene	7.85	130	7334m	0.088	ppbv	
39) 1,2-Dichloropropane	7.64	63	10454m	0.121	ppbv	
41) Tetrahydrofuran	6.09	42	5504m	0.064	ppbv	
42) Bromodichloromethane	7.81	83	17613m	0.098	ppbv	
43) Methyl Methacrylate	8.03	69	6540	0.072	ppbv	91
44) 2,2,4-Trimethylpentane	7.89	57	23902m	0.062	ppbv	

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45) t-1,3-Dichloropropene	9.30	75	5458m	0.059	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	7879m	0.070	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	9711m	0.106	ppbv	
48) Dibromochloromethane	10.33	129	10644m	0.076	ppbv	
49) Bromoform	13.08	173	8643m	0.071	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	16665m	0.072	ppbv	
51) 2-Hexanone	10.18	43	9222m	0.051	ppbv	
52) Tetrachloroethene	11.26	164	6749m	0.088	ppbv	
53) Toluene	9.83	91	12658m	0.055	ppbv	
54) 1,2-Dibromoethane	10.65	107	11807m	0.088	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	9912m	0.090	ppbv	
57) Chlorobenzene	12.19	112	21581m	0.111	ppbv	
58) Ethyl Benzene	12.75	91	17117m	0.056	ppbv	
59) m/p-Xylene	13.03	91	31299m	0.117	ppbv	
60) o-Xylene	13.72	91	14671m	0.056	ppbv	
61) Styrene	13.56	104	8103m	0.049	ppbv	
62) Isopropylbenzene	14.71	105	27291m	0.069	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	20440m	0.099	ppbv	
64) n-propylbenzene	15.60	120	5248m	0.052	ppbv	
65) tert-Butylbenzene	16.80	119	17309m	0.051	ppbv	
66) Benzyl Chloride	17.04	91	8723m	0.075	ppbv	
67) sec-Butylbenzene	17.34	105	26805m	0.055	ppbv	
69) p-Isopropyltoluene	17.71	119	19620m	0.050	ppbv	
70) n-Butylbenzene	18.60	91	24104m	0.057	ppbv	
71) 2-Chlorotoluene	15.49	91	19227m	0.065	ppbv	
72) 4-Ethyltoluene	15.88	105	17864m	0.061	ppbv	
73) 1,3,5-Trimethylbenzene	16.04	105	15006m	0.052	ppbv	
74) 1,2,4-Trimethylbenzene	16.81	105	16499m	0.053	ppbv	
75) 1,3-Dichlorobenzene	17.04	146	20888m	0.114	ppbv	
76) 1,4-Dichlorobenzene	17.19	146	15574m	0.089	ppbv	
77) 1,2-Dichlorobenzene	17.87	146	15141m	0.088	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	19343m	0.131	ppbv	
81) 1,2,4-Trichlorobenzene	22.01	180	11443m	0.078	ppbv	

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

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