

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050720\
 Data File : VL034980.D
 Acq On : 7 May 2020 23:10
 Operator : SY/AP
 Sample : L2182-15 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 5:22:53 PM

Quant Time: May 08 15:16:17 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	5.67	49	1001332	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2316812	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2130515	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1788973	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	26910m	0.189	ppbv	
3) Chlorodifluoromethane	2.95	51	14747	0.129	ppbv #	89
4) Chloromethane	3.11	50	8370	0.128	ppbv #	88
5) Vinyl Chloride	3.23	62	7352m	0.115	ppbv	
6) Bromomethane	3.45	94	5959m	0.156	ppbv	
7) Chloroethane	3.53	64	3136m	0.137	ppbv	
8) Dichlorotetrafluoroethane	3.15	85	18814	0.128	ppbv	88
9) Propene	2.98	41	7086m	0.143	ppbv	
10) Heptane	8.13	43	8019m	0.065	ppbv	
11) Trichlorofluoromethane	3.93	101	19419m	0.133	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	14683m	0.141	ppbv	
13) Ethanol	3.60	45	2432m	0.149	ppbv	
14) Bromoethene	3.72	108	4391m	0.102	ppbv	
15) Acetone	3.84	43	38086m	0.288	ppbv	
16) 1,3-Butadiene	3.30	39	7855m	0.138	ppbv	
17) tert-Butyl alcohol	4.31	59	15755m	0.134	ppbv	
18) 1,1-Dichloroethene	4.28	96	5971m	0.132	ppbv	
19) Isopropyl Alcohol	3.97	45	12707m	0.144	ppbv	
20) Methylene Chloride	4.33	84	11782	0.269	ppbv #	79
21) Allyl Chloride	4.39	41	8691m	0.116	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	6342m	0.141	ppbv	
23) Vinyl Acetate	5.08	43	15760m	0.094	ppbv	
24) 1,1-Dichloroethane	5.01	63	16935m	0.131	ppbv	
25) Ethyl Acetate	5.68	43	23847m	0.107	ppbv	
26) Hexane	5.69	57	10403m	0.108	ppbv	
27) Carbon Disulfide	4.53	76	13469m	0.119	ppbv	
28) Methyl tert-Butyl Ether	5.05	73	13862m	0.094	ppbv	
29) Chloroform	5.74	83	20461m	0.130	ppbv	
30) Cyclohexane	7.15	84	4281m	0.058	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	9014m	0.096	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	18703m	0.131	ppbv	
34) 2-Butanone	5.26	43	16692m	0.116	ppbv	
35) Carbon Tetrachloride	7.03	117	16565m	0.113	ppbv	
36) Benzene	6.90	78	14660m	0.077	ppbv	
37) 1,2-Dichloroethane	6.31	62	14359m	0.122	ppbv	
38) Trichloroethene	7.85	130	7534m	0.102	ppbv	
39) 1,2-Dichloropropane	7.63	63	8749m	0.114	ppbv	
40) 1,4-Dioxane	7.91	88	2695m	0.087	ppbv	
41) Tetrahydrofuran	6.08	42	5192m	0.068	ppbv	
42) Bromodichloromethane	7.81	83	16569m	0.104	ppbv	
43) Methyl Methacrylate	8.04	69	5672m	0.070	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	22548m	0.066	ppbv	
45) t-1,3-Dichloropropene	9.30	75	4893m	0.060	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	7444m	0.074	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	8672m	0.107	ppbv	
48) Dibromochloromethane	10.33	129	10627m	0.086	ppbv	
49) Bromoform	13.08	173	8243m	0.077	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	13811m	0.067	ppbv	
51) 2-Hexanone	10.20	43	8933m	0.056	ppbv	
52) Tetrachloroethene	11.26	164	7551m	0.111	ppbv	
53) Toluene	9.83	91	12493m	0.062	ppbv	
54) 1,2-Dibromoethane	10.65	107	11218m	0.095	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.16	131	10825m	0.113	ppbv	
57) Chlorobenzene	12.19	112	21228m	0.126	ppbv	
58) Ethyl Benzene	12.74	91	17045m	0.065	ppbv	
59) m/p-Xylene	12.99	91	27918m	0.120	ppbv	
60) o-Xylene	13.73	91	14189m	0.062	ppbv	
61) Styrene	13.57	104	7247m	0.050	ppbv	
62) Isopropylbenzene	14.71	105	24915m	0.073	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	20835m	0.116	ppbv	
64) n-propylbenzene	15.61	120	4982m	0.057	ppbv	
65) tert-Butylbenzene	16.80	119	14469m	0.049	ppbv	
66) Benzyl Chloride	17.07	91	8194m	0.081	ppbv	
67) sec-Butylbenzene	17.34	105	25999m	0.061	ppbv	
69) p-Isopropyltoluene	17.72	119	16803m	0.049	ppbv	
70) n-Butylbenzene	18.60	91	17545m	0.048	ppbv	
71) 2-Chlorotoluene	15.50	91	16615m	0.064	ppbv	
72) 4-Ethyltoluene	15.88	105	13527m	0.053	ppbv	
73) 1,3,5-Trimethylbenzene	16.06	105	11701m	0.047	ppbv	
74) 1,2,4-Trimethylbenzene	16.81	105	13561m	0.050	ppbv	
75) 1,3-Dichlorobenzene	17.05	146	23789m	0.149	ppbv	
76) 1,4-Dichlorobenzene	17.19	146	15683m	0.104	ppbv	
77) 1,2-Dichlorobenzene	17.87	146	14040m	0.094	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	17713m	0.139	ppbv	
79) Naphthalene	22.28	128	7640m	0.036	ppbv	
81) 1,2,4-Trichlorobenzene	22.01	180	6226m	0.049	ppbv	

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

