

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034951.D
 Acq On : 7 May 2020 2:03
 Operator : SY/AP
 Sample : L2182-14 0.5PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:31:44 PM

Quant Time: May 07 07:51:16 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	1162027	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2661756	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2461870	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2049701	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	98032	0.594	ppbv	94
3) Chlorodifluoromethane	2.95	51	75786	0.571	ppbv	95
4) Chloromethane	3.11	50	43674	0.574	ppbv	94
5) Vinyl Chloride	3.23	62	39133	0.528	ppbv	94
6) Bromomethane	3.45	94	26863	0.607	ppbv	98
7) Chloroethane	3.53	64	15595m	0.585	ppbv	
8) Dichlorotetrafluoroethane	3.15	85	102137	0.598	ppbv	98
9) Propene	2.98	41	25426	0.442	ppbv	96
10) Heptane	8.14	43	63259	0.439	ppbv	98
11) Trichlorofluoromethane	3.93	101	99832	0.587	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	63881	0.528	ppbv	98
13) Ethanol	3.59	45	12055m	0.635	ppbv	
14) Bromoethene	3.72	108	25361	0.507	ppbv	93
15) Acetone	3.84	43	96440	0.628	ppbv	95
16) 1,3-Butadiene	3.30	39	29822m	0.451	ppbv	
17) tert-Butyl alcohol	4.29	59	67230m	0.492	ppbv	
18) 1,1-Dichloroethene	4.28	96	30153	0.574	ppbv	96
19) Isopropyl Alcohol	3.95	45	56365	0.550	ppbv #	91
20) Methylene Chloride	4.33	84	33359	0.656	ppbv #	74
21) Allyl Chloride	4.40	41	43197	0.498	ppbv	92
22) trans-1,2-Dichloroethene	4.87	96	26684	0.513	ppbv	90
23) Vinyl Acetate	5.07	43	85109	0.437	ppbv #	93
24) 1,1-Dichloroethane	5.01	63	80998m	0.540	ppbv	
25) Ethyl Acetate	5.68	43	135284	0.524	ppbv #	98
26) Hexane	5.68	57	55818m	0.499	ppbv	
27) Carbon Disulfide	4.54	76	65756	0.499	ppbv #	85
28) Methyl tert-Butyl Ether	5.04	73	74382	0.437	ppbv	98
29) Chloroform	5.75	83	100404	0.549	ppbv	86
30) Cyclohexane	7.15	84	31456m	0.364	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	48188m	0.441	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	90125	0.545	ppbv	99
34) 2-Butanone	5.25	43	76523	0.463	ppbv	100
35) Carbon Tetrachloride	7.03	117	90010	0.536	ppbv	95
36) Benzene	6.90	78	94226	0.429	ppbv	92
37) 1,2-Dichloroethane	6.31	62	73449m	0.543	ppbv	
38) Trichloroethene	7.85	130	36223	0.426	ppbv	89
39) 1,2-Dichloropropane	7.63	63	43338	0.493	ppbv	94
40) 1,4-Dioxane	7.88	88	14129m	0.395	ppbv	
41) Tetrahydrofuran	6.07	42	33340m	0.383	ppbv	
42) Bromodichloromethane	7.81	83	94710	0.519	ppbv	86
43) Methyl Methacrylate	8.03	69	37723m	0.407	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	180081	0.462	ppbv	93
45) t-1,3-Dichloropropene	9.31	75	31859m	0.341	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	45226m	0.394	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	46543m	0.501	ppbv	
48) Dibromochloromethane	10.34	129	68061	0.477	ppbv	99
49) Bromoform	13.08	173	55660m	0.453	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	100003	0.424	ppbv	93
51) 2-Hexanone	10.19	43	69234m	0.375	ppbv	
52) Tetrachloroethene	11.26	164	37839m	0.485	ppbv	
53) Toluene	9.83	91	82524	0.355	ppbv	97
54) 1,2-Dibromoethane	10.64	107	64511m	0.473	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.17	131	63715m	0.574	ppbv	
57) Chlorobenzene	12.19	112	109863m	0.563	ppbv	
58) Ethyl Benzene	12.75	91	115496	0.379	ppbv	92
59) m/p-Xylene	13.04	91	243669m	0.910	ppbv	
60) o-Xylene	13.74	91	118668	0.449	ppbv	98
61) Styrene	13.57	104	56036m	0.335	ppbv	
62) Isopropylbenzene	14.72	105	188291	0.477	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	115325m	0.554	ppbv	
64) n-propylbenzene	15.61	120	46444m	0.459	ppbv	
65) tert-Butylbenzene	16.80	119	148480m	0.434	ppbv	
66) Benzyl Chloride	17.04	91	47650m	0.410	ppbv	
67) sec-Butylbenzene	17.34	105	235112	0.481	ppbv	96
69) p-Isopropyltoluene	17.71	119	169603	0.429	ppbv	96
70) n-Butylbenzene	18.60	91	193546m	0.460	ppbv	
71) 2-Chlorotoluene	15.50	91	119002	0.400	ppbv	100
72) 4-Ethyltoluene	15.89	105	125773m	0.427	ppbv	
73) 1,3,5-Trimethylbenzene	16.04	105	124959m	0.435	ppbv	
74) 1,2,4-Trimethylbenzene	16.82	105	153542	0.490	ppbv	89
75) 1,3-Dichlorobenzene	17.05	146	106749m	0.580	ppbv	
76) 1,4-Dichlorobenzene	17.19	146	94782m	0.542	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	87019	0.502	ppbv	93
78) Hexachloro-1,3-Butadiene	23.44	225	72237m	0.489	ppbv	
79) Naphthalene	22.27	128	74349m	0.305	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	7559	0.126	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.01	180	60774m	0.411	ppbv	

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

