

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033667.D
 Acq On : 6 May 2019 20:27
 Operator : SY/AP
 Sample : K2241-13 0.1PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:07:04 PM

Quant Time: May 07 04:45:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 07 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	910781	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2220289	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2158869	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1848642	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	25967	0.122 ppbv	93
3) Chlorodifluoromethane	3.01	51	14484m	0.110 ppbv	
4) Chloromethane	3.17	50	7934	0.116 ppbv #	78
5) Vinyl Chloride	3.29	62	7272	0.109 ppbv #	81
6) Bromomethane	3.51	94	4378m	0.104 ppbv	
7) Chloroethane	3.60	64	2779m	0.115 ppbv	
8) Dichlorotetrafluoroethane	3.22	85	18778	0.107 ppbv	91
9) Propene	3.04	41	5905m	0.118 ppbv	
10) Heptane	8.25	43	7946m	0.064 ppbv	
11) Trichlorofluoromethane	4.00	101	22199	0.111 ppbv #	81
12) 1,1,2-Trichlorotrifluoroet	4.55	101	15245	0.114 ppbv	95
13) Ethanol	3.67	45	2492m	0.166 ppbv	
14) Bromoethene	3.78	108	5018m	0.095 ppbv	
15) Acetone	3.92	43	18693	0.138 ppbv	92
16) 1,3-Butadiene	3.37	39	5711	0.098 ppbv #	78
17) tert-Butyl alcohol	4.39	59	11510m	0.112 ppbv	
18) 1,1-Dichloroethene	4.35	96	5651m	0.098 ppbv	
19) Isopropyl Alcohol	4.05	45	10042m	0.121 ppbv	
20) Methylene Chloride	4.40	84	7854m	0.153 ppbv	
21) Allyl Chloride	4.47	41	8471m	0.103 ppbv	
22) trans-1,2-Dichloroethene	4.96	96	6435	0.111 ppbv	91
23) Vinyl Acetate	5.16	43	14835m	0.084 ppbv	
24) 1,1-Dichloroethane	5.09	63	12960m	0.097 ppbv	
25) Ethyl Acetate	5.78	43	21802	0.099 ppbv	99
26) Hexane	5.77	57	8859	0.093 ppbv #	83
27) Carbon Disulfide	4.62	76	10723m	0.083 ppbv	
28) Methyl tert-Butyl Ether	5.13	73	11145m	0.070 ppbv	
29) Chloroform	5.84	83	18663	0.110 ppbv	98
30) Cyclohexane	7.24	84	3741m	0.047 ppbv	
31) cis-1,2-Dichloroethene	5.64	61	6748	0.072 ppbv #	79
32) 1,1,1-Trichloroethane	6.62	97	17895m	0.102 ppbv	
34) 2-Butanone	5.35	43	11104m	0.078 ppbv	
35) Carbon Tetrachloride	7.13	117	18914m	0.104 ppbv	
36) Benzene	6.99	78	14152m	0.071 ppbv	
37) 1,2-Dichloroethane	6.41	62	13277	0.096 ppbv	98
38) Trichloroethene	7.95	130	6374m	0.087 ppbv	
39) 1,2-Dichloropropane	7.73	63	7740m	0.104 ppbv	
40) 1,4-Dioxane	8.01	88	1046m	0.035 ppbv	
41) Tetrahydrofuran	6.17	42	4874m	0.066 ppbv	
42) Bromodichloromethane	7.91	83	16936m	0.094 ppbv	
43) Methyl Methacrylate	8.14	69	4509m	0.060 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	19288m	0.057	ppbv	
45) t-1,3-Dichloropropene	9.41	75	6078m	0.066	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	6668m	0.058	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	8936m	0.105	ppbv	
48) Dibromochloromethane	10.45	129	9075m	0.063	ppbv	
49) Bromoform	13.18	173	9009m	0.072	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	15640m	0.073	ppbv	
51) 2-Hexanone	10.30	43	7891m	0.047	ppbv	
52) Tetrachloroethene	11.36	164	6716m	0.095	ppbv	
53) Toluene	9.94	91	11192m	0.052	ppbv	
54) 1,2-Dibromoethane	10.75	107	9425m	0.073	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	10247m	0.103	ppbv	
57) Chlorobenzene	12.30	112	19325	0.109	ppbv	# 76
58) Ethyl Benzene	12.86	91	17310m	0.061	ppbv	
59) m/p-Xylene	13.14	91	27467m	0.111	ppbv	
60) o-Xylene	13.85	91	14375m	0.057	ppbv	
61) Styrene	13.67	104	8546m	0.051	ppbv	
62) Isopropylbenzene	14.82	105	22475	0.066	ppbv	# 73
63) 1,1,2,2-Tetrachloroethane	13.83	83	19549m	0.107	ppbv	
64) n-propylbenzene	15.72	120	2543m	0.029	ppbv	
65) tert-Butylbenzene	16.91	119	15339m	0.049	ppbv	
66) Benzyl Chloride	17.15	91	10234m	0.072	ppbv	
67) sec-Butylbenzene	17.45	105	25405m	0.058	ppbv	
69) p-Isopropyltoluene	17.81	119	15892m	0.044	ppbv	
70) n-Butylbenzene	18.70	91	20470m	0.053	ppbv	
71) 2-Chlorotoluene	15.62	91	15169m	0.060	ppbv	
72) 4-Ethyltoluene	15.99	105	14446m	0.049	ppbv	
73) 1,3,5-Trimethylbenzene	16.15	105	14316m	0.050	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	15420m	0.049	ppbv	
75) 1,3-Dichlorobenzene	17.16	146	22879m	0.119	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	15830m	0.087	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	12382m	0.070	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	16759m	0.119	ppbv	
79) Naphthalene	22.42	128	15404m	0.053	ppbv	
80) Naphthalene, 2-methyl-	25.13	142	4771	0.044	ppbv	97
81) 1,2,4-Trichlorobenzene	22.12	180	12192m	0.073	ppbv	

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

