

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041223\
 Data File : VL040350.D
 Acq On : 13 Apr 2023 00:02
 Operator : SY/MD
 Sample : 02213-15 0.1 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2023

Quant Time: Apr 13 08:05:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Tue Apr 11 04:15:53 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/13/2023
 Supervised By : Mahesh Dadoda 04/13/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.192	49	955792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2336254	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2125659	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1741099	9.781	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	20268	0.108	ppbv #	88
3) Chlorodifluoromethane	2.668	51	12669	0.105	ppbv	97
4) Chloromethane	2.803	50	8061	0.109	ppbv #	86
5) Vinyl Chloride	2.912	62	5986	0.100	ppbv	94
6) Bromomethane	3.111	94	1937	0.093	ppbv	95
7) Chloroethane	3.185	64	2699m	0.117	ppbv	
8) Dichlorotetrafluoroethane	2.844	85	16978	0.106	ppbv	99
9) Propene	2.693	41	8139m	0.177	ppbv	
10) Heptane	7.584	43	5952m	0.054	ppbv	
11) Trichlorofluoromethane	3.558	101	18309m	0.108	ppbv	
12) 1,1,2-Trichlorotrifluo...	4.060	101	13961m	0.109	ppbv	
13) Ethanol	3.250	45	619m	0.183	ppbv	
14) Bromoethene	3.359	108	4635	0.097	ppbv #	85
15) Acetone	3.488	43	20551	0.177	ppbv #	66
16) 1,3-Butadiene	2.980	39	6541m	0.124	ppbv	
17) tert-Butyl alcohol	3.899	59	11178m	0.101	ppbv	
18) 1,1-Dichloroethene	3.870	96	5601m	0.102	ppbv	
19) Isopropyl Alcohol	3.597	45	6181m	0.111	ppbv	
20) Methylene Chloride	3.931	84	13160	0.269	ppbv	87
21) Allyl Chloride	3.992	41	6350m	0.084	ppbv	
22) trans-1,2-Dichloroethene	4.436	96	5651m	0.101	ppbv	
23) Vinyl Acetate	4.639	43	4988m	0.154	ppbv	
24) 1,1-Dichloroethane	4.561	63	10213	0.088	ppbv	99
25) Ethyl Acetate	5.224	43	17953m	0.082	ppbv	
26) Hexane	5.214	57	7525m	0.084	ppbv	
27) Carbon Disulfide	4.121	76	8627m	0.069	ppbv	
28) Methyl tert-Butyl Ether	4.603	73	9583m	0.093	ppbv	
29) Chloroform	5.269	83	16273	0.103	ppbv	88
30) Cyclohexane	6.603	84	4020m	0.057	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	7452m	0.086	ppbv	
32) 1,1,1-Trichloroethane	5.999	97	14610m	0.097	ppbv	
34) 2-Butanone	4.809	43	13517m	0.117	ppbv	
35) Carbon Tetrachloride	6.494	117	14267m	0.097	ppbv	
36) Benzene	6.372	78	14755	0.083	ppbv	94
37) 1,2-Dichloroethane	5.809	62	11517m	0.099	ppbv	
38) Trichloroethene	7.294	130	8493m	0.087	ppbv	
39) 1,2-Dichloropropane	7.076	63	7506m	0.107	ppbv	
40) 1,4-Dioxane	7.343	88	2343m	0.085	ppbv	
41) Tetrahydrofuran	5.600	42	4038m	0.061	ppbv	
42) Bromodichloromethane	7.253	83	14156m	0.089	ppbv	
43) Methyl Methacrylate	7.487	69	4154m	0.063	ppbv	
44) 2,2,4-Trimethylpentane	7.327	57	18838m	0.063	ppbv	
45) t-1,3-Dichloropropene	8.716	75	3293m	0.057	ppbv	

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Apr 11 04:15:53 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.156	75	4980m	0.061	ppbv	
47) 1,1,2-Trichloroethane	8.909	97	7522m	0.101	ppbv	
48) Dibromochloromethane	9.709	129	8901m	0.073	ppbv	
49) Bromoform	12.416	173	5532m	0.060	ppbv	
50) 4-Methyl-2-Pentanone	8.217	43	11235m	0.063	ppbv	
51) 2-Hexanone	9.590	43	8272m	0.060	ppbv	
52) Tetrachloroethene	10.629	164	4938m	0.092	ppbv	
53) Toluene	9.230	91	10828m	0.058	ppbv	
54) 1,2-Dibromoethane	10.015	107	6215m	0.081	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.519	131	8555m	0.096	ppbv	
57) Chlorobenzene	11.539	112	15507m	0.103	ppbv	
58) Ethyl Benzene	12.101	91	13770m	0.057	ppbv	
59) m/p-Xylene	12.355	91	20898m	0.094	ppbv	
60) o-Xylene	13.066	91	9914m	0.047	ppbv	
61) Styrene	12.921	104	4678m	0.043	ppbv	
62) Isopropylbenzene	14.043	105	19789m	0.066	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.076	83	7587m	0.102	ppbv	
64) n-propylbenzene	14.947	120	3682m	0.050	ppbv	
65) tert-Butylbenzene	16.111	119	13027m	0.050	ppbv	
66) Benzyl Chloride	16.362	91	860m	0.051	ppbv	
67) sec-Butylbenzene	16.648	105	19582m	0.053	ppbv	
69) p-Isopropyltoluene	17.024	119	13666m	0.047	ppbv	
70) n-Butylbenzene	17.908	91	16052m	0.050	ppbv	
71) 2-Chlorotoluene	14.818	91	13493m	0.059	ppbv	
72) 4-Ethyltoluene	15.207	105	12040m	0.052	ppbv	
73) 1,3,5-Trimethylbenzene	15.371	105	9959m	0.047	ppbv	
74) 1,2,4-Trimethylbenzene	16.120	105	11239m	0.047	ppbv	
75) 1,3-Dichlorobenzene	16.358	146	8584m	0.066	ppbv	
76) 1,4-Dichlorobenzene	16.484	146	9431m	0.076	ppbv	
77) 1,2-Dichlorobenzene	17.169	146	7875m	0.063	ppbv	
78) Hexachloro-1,3-Butadiene	22.654	225	8916m	0.098	ppbv	
79) Naphthalene	21.419	128	6104m	0.043	ppbv	
81) 1,2,4-Trichlorobenzene	21.156	180	4696m	0.054	ppbv	

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

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