

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040803.D
 Acq On : 25 Oct 2023 16:54
 Operator : SY/MD
 Sample : 04699-15 0.1 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/26/2023
 Supervised By :Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 03:53:16 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	935036	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2465752	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	2242063	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.754 95 1782832 10.807 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.100%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.742	85	22405m	0.136	ppbv	
3) Chlorodifluoromethane	2.687	51	17121	0.125	ppbv #	86
4) Chloromethane	2.825	50	7076m	0.130	ppbv	
5) Vinyl Chloride	2.928	62	5620	0.100	ppbv	98
6) Bromomethane	3.131	94	3193m	0.138	ppbv	
7) Chloroethane	3.205	64	2381	0.130	ppbv	100
8) Dichlorotetrafluoroethane	2.870	85	16376	0.131	ppbv	95
9) Propene	2.706	41	8249m	0.162	ppbv	
10) Heptane	7.568	43	12834m	0.100	ppbv	
11) Trichlorofluoromethane	3.568	101	15922	0.125	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	4.067	101	9864m	0.109	ppbv	
13) Ethanol	3.279	45	2110m	0.183	ppbv	
14) Bromoethene	3.375	108	4410m	0.114	ppbv	
15) Acetone	3.501	43	21828m	0.226	ppbv	
16) 1,3-Butadiene	2.996	39	8153m	0.161	ppbv	
17) tert-Butyl alcohol	3.909	59	10070m	0.102	ppbv	
18) 1,1-Dichloroethene	3.883	96	5332m	0.131	ppbv	
19) Isopropyl Alcohol	3.610	45	7553m	0.121	ppbv	
20) Methylene Chloride	3.938	84	12548	0.312	ppbv #	72
21) Allyl Chloride	3.999	41	7920	0.124	ppbv	88
22) trans-1,2-Dichloroethene	4.436	96	4910m	0.114	ppbv	
23) Vinyl Acetate	4.639	43	11876m	0.096	ppbv	
24) 1,1-Dichloroethane	4.562	63	10305m	0.111	ppbv	
25) Ethyl Acetate	5.221	43	24950m	0.118	ppbv	
26) Hexane	5.208	57	12972	0.134	ppbv #	5
27) Carbon Disulfide	4.124	76	9383	0.088	ppbv #	1
28) Methyl tert-Butyl Ether	4.603	73	7198m	0.096	ppbv	
29) Chloroform	5.266	83	16128	0.115	ppbv	98
30) Cyclohexane	6.587	84	9034m	0.110	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	9569m	0.107	ppbv	
32) 1,1,1-Trichloroethane	5.999	97	15726m	0.105	ppbv	
34) 2-Butanone	4.809	43	14782m	0.132	ppbv	
35) Carbon Tetrachloride	6.478	117	14946m	0.108	ppbv	
36) Benzene	6.359	78	20057	0.106	ppbv #	84
37) 1,2-Dichloroethane	5.803	62	11706m	0.121	ppbv	
38) Trichloroethene	7.279	130	8684m	0.103	ppbv	
39) 1,2-Dichloropropane	7.054	63	11593m	0.156	ppbv	
40) 1,4-Dioxane	7.320	88	3210m	0.114	ppbv	
41) Tetrahydrofuran	5.597	42	8648m	0.112	ppbv	
42) Bromodichloromethane	7.240	83	15873m	0.109	ppbv	
43) Methyl Methacrylate	7.472	69	6088m	0.080	ppbv	
44) 2,2,4-Trimethylpentane	7.314	57	34500m	0.108	ppbv	
45) t-1,3-Dichloropropene	8.703	75	3774m	0.062	ppbv	

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.140	75	6884m	0.093	ppbv	
47) 1,1,2-Trichloroethane	8.893	97	8818m	0.113	ppbv	
48) Dibromochloromethane	9.697	129	10844m	0.083	ppbv	
49) Bromoform	12.391	173	7691m	0.073	ppbv	
50) 4-Methyl-2-Pentanone	8.205	43	17605m	0.092	ppbv	
51) 2-Hexanone	9.578	43	10396m	0.072	ppbv	
52) Tetrachloroethene	10.587	164	8132m	0.106	ppbv	
53) Toluene	9.201	91	21376m	0.095	ppbv	
54) 1,2-Dibromoethane	9.989	107	9911m	0.091	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.491	131	10172m	0.111	ppbv	
57) Chlorobenzene	11.504	112	18408m	0.115	ppbv	
58) Ethyl Benzene	12.060	91	25552m	0.091	ppbv	
59) m/p-Xylene	12.343	91	44749m	0.193	ppbv	
60) o-Xylene	13.034	91	19351m	0.087	ppbv	
61) Styrene	12.883	104	9780m	0.080	ppbv	
62) Isopropylbenzene	14.008	105	30625	0.090	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.037	83	18189m	0.110	ppbv	
64) n-propylbenzene	14.899	120	8518m	0.093	ppbv	
65) tert-Butylbenzene	16.072	119	27111m	0.088	ppbv	
66) Benzyl Chloride	16.336	91	1627m	0.053	ppbv	
67) sec-Butylbenzene	16.616	105	42771m	0.102	ppbv	
69) p-Isopropyltoluene	16.982	119	27731m	0.079	ppbv	
70) n-Butylbenzene	17.876	91	29737m	0.086	ppbv	
71) 2-Chlorotoluene	14.783	91	26926m	0.105	ppbv	
72) 4-Ethyltoluene	15.172	105	24385m	0.094	ppbv	
73) 1,3,5-Trimethylbenzene	15.336	105	21997m	0.096	ppbv	
74) 1,2,4-Trimethylbenzene	16.089	105	23512m	0.094	ppbv	
75) 1,3-Dichlorobenzene	16.310	146	16648m	0.107	ppbv	
76) 1,4-Dichlorobenzene	16.462	146	15869m	0.103	ppbv	
77) 1,2-Dichlorobenzene	17.117	146	14585m	0.096	ppbv	
78) Hexachloro-1,3-Butadiene	22.603	225	11454m	0.105	ppbv	
79) Naphthalene	21.387	128	8216m	0.041	ppbv	
81) 1,2,4-Trichlorobenzene	21.140	180	6866m	0.062	ppbv	

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

