

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040806.D
 Acq On : 25 Oct 2023 18:50
 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 03:54:13 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	5.192	49	916187	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2387536	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.445	117	2183536	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.757 95 1700555 10.584 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.754	85	22427	0.139	ppbv	100
3) Chlorodifluoromethane	2.697	51	18539	0.138	ppbv	98
4) Chloromethane	2.838	50	7450m	0.140	ppbv	
5) Vinyl Chloride	2.944	62	5513	0.100	ppbv #	25
6) Bromomethane	3.140	94	2425m	0.107	ppbv	
7) Chloroethane	3.217	64	1978	0.111	ppbv #	72
8) Dichlorotetrafluoroethane	2.880	85	15753m	0.129	ppbv	
9) Propene	2.716	41	7763m	0.155	ppbv	
10) Heptane	7.568	43	13435m	0.107	ppbv	
11) Trichlorofluoromethane	3.571	101	14944	0.120	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	4.076	101	10623	0.120	ppbv	94
13) Ethanol	3.279	45	2462m	0.218	ppbv	
14) Bromoethene	3.388	108	4140m	0.109	ppbv	
15) Acetone	3.504	43	19595	0.207	ppbv #	80
16) 1,3-Butadiene	3.005	39	5363	0.108	ppbv #	73
17) tert-Butyl alcohol	3.918	59	10416m	0.107	ppbv	
18) 1,1-Dichloroethene	3.893	96	4737m	0.119	ppbv	
19) Isopropyl Alcohol	3.623	45	8995m	0.148	ppbv	
20) Methylene Chloride	3.941	84	13981m	0.354	ppbv	
21) Allyl Chloride	4.002	41	6935m	0.111	ppbv	
22) trans-1,2-Dichloroethene	4.455	96	4487m	0.106	ppbv	
23) Vinyl Acetate	4.645	43	12290m	0.102	ppbv	
24) 1,1-Dichloroethane	4.565	63	10827m	0.119	ppbv	
25) Ethyl Acetate	5.214	43	24283m	0.117	ppbv	
26) Hexane	5.211	57	14003m	0.148	ppbv	
27) Carbon Disulfide	4.134	76	11339m	0.108	ppbv	
28) Methyl tert-Butyl Ether	4.610	73	7901	0.107	ppbv	94
29) Chloroform	5.269	83	17768m	0.129	ppbv	
30) Cyclohexane	6.594	84	6347m	0.079	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	10959m	0.125	ppbv	
32) 1,1,1-Trichloroethane	5.999	97	14148m	0.097	ppbv	
34) 2-Butanone	4.815	43	15279m	0.141	ppbv	
35) Carbon Tetrachloride	6.484	117	14197m	0.106	ppbv	
36) Benzene	6.362	78	20301	0.111	ppbv #	81
37) 1,2-Dichloroethane	5.806	62	11738m	0.125	ppbv	
38) Trichloroethene	7.278	130	6979m	0.086	ppbv	
39) 1,2-Dichloropropane	7.066	63	10022m	0.140	ppbv	
40) 1,4-Dioxane	7.330	88	3764m	0.139	ppbv	
41) Tetrahydrofuran	5.587	42	6716m	0.090	ppbv	
42) Bromodichloromethane	7.240	83	14096	0.100	ppbv #	55
43) Methyl Methacrylate	7.478	69	6143m	0.084	ppbv	
44) 2,2,4-Trimethylpentane	7.317	57	31017	0.100	ppbv #	86
45) t-1,3-Dichloropropene	8.696	75	3808m	0.065	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	8.127	75	6064m	0.085	ppbv	
47) 1,1,2-Trichloroethane	8.886	97	8301m	0.110	ppbv	
48) Dibromochloromethane	9.700	129	10533m	0.083	ppbv	
49) Bromoform	12.381	173	8210m	0.080	ppbv	
50) 4-Methyl-2-Pentanone	8.204	43	15856m	0.086	ppbv	
52) Tetrachloroethene	10.603	164	7804m	0.105	ppbv	
53) Toluene	9.201	91	19102m	0.087	ppbv	
54) 1,2-Dibromoethane	9.992	107	11614m	0.110	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.490	131	9714m	0.109	ppbv	
57) Chlorobenzene	11.507	112	17781	0.114	ppbv #	56
58) Ethyl Benzene	12.063	91	25528m	0.093	ppbv	
59) m/p-Xylene	12.342	91	41214m	0.182	ppbv	
60) o-Xylene	13.047	91	19359m	0.090	ppbv	
61) Styrene	12.873	104	7837m	0.066	ppbv	
62) Isopropylbenzene	14.008	105	34627m	0.104	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.034	83	17261m	0.107	ppbv	
64) n-propylbenzene	14.908	120	8612m	0.097	ppbv	
65) tert-Butylbenzene	16.069	119	26641m	0.089	ppbv	
66) Benzyl Chloride	16.349	91	1307m	0.043	ppbv	
67) sec-Butylbenzene	16.622	105	42183m	0.103	ppbv	
69) p-Isopropyltoluene	16.982	119	26405m	0.077	ppbv	
70) n-Butylbenzene	17.860	91	28714m	0.085	ppbv	
71) 2-Chlorotoluene	14.773	91	23909m	0.096	ppbv	
72) 4-Ethyltoluene	15.178	105	23660m	0.094	ppbv	
73) 1,3,5-Trimethylbenzene	15.333	105	19835m	0.089	ppbv	
74) 1,2,4-Trimethylbenzene	16.072	105	22089m	0.091	ppbv	
75) 1,3-Dichlorobenzene	16.326	146	16446m	0.109	ppbv	
76) 1,4-Dichlorobenzene	16.461	146	14952m	0.100	ppbv	
77) 1,2-Dichlorobenzene	17.137	146	15130m	0.102	ppbv	
78) Hexachloro-1,3-Butadiene	22.612	225	11250m	0.106	ppbv	
79) Naphthalene	21.377	128	6545m	0.033	ppbv	
81) 1,2,4-Trichlorobenzene	21.130	180	5022m	0.047	ppbv	

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

