

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	120542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 265161 10.032 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv	92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv #	84
4) Chloromethane	1.531	50	4534	0.538	ppbv	97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv	97
6) Bromomethane	1.667	94	2394	0.602	ppbv	95
7) Chloroethane	1.703	64	1824	0.550	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv	99
9) Propene	1.483	41	5303	0.574	ppbv	93
10) Heptane	4.978	43	14728m	0.593	ppbv	
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv	93
13) Ethanol	1.719	45	1656m	2.194	ppbv	
14) Bromoethene	1.780	108	3238	0.519	ppbv #	93
15) Acetone	1.835	43	11859	0.601	ppbv #	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv #	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv #	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv #	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv	93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv #	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv	92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv #	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv #	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv #	93
26) Hexane	2.823	57	11448	0.581	ppbv	91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv #	32
29) Chloroform	2.848	83	14815	0.532	ppbv	93
30) Cyclohexane	3.852	84	8572	0.541	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv	97
34) 2-Butanone	2.560	43	15640	0.560	ppbv	97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv	87
36) Benzene	3.651	78	20233	0.531	ppbv	97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv #	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv #	78
39) 1,2-Dichloropropane	4.308	63	7790m	0.548	ppbv	
40) 1,4-Dioxane	4.599	88	4637m	0.603	ppbv	
41) Tetrahydrofuran	3.062	42	9144m	0.567	ppbv	
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv #	91
43) Methyl Methacrylate	4.881	69	9620m	0.563	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv	91
45) t-1,3-Dichloropropene	6.415	75	9073m	0.517	ppbv	

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

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10827m	0.505	ppbv	
47) 1,1,2-Trichloroethane	6.577	97	7466m	0.516	ppbv	
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	27206m	0.585	ppbv	
51) 2-Hexanone	7.441	43	23684	0.564	ppbv	98
52) Tetrachloroethene	8.221	164	7412	0.503	ppbv #	88
53) Toluene	6.927	91	24200	0.529	ppbv	97
54) 1,2-Dibromoethane	7.645	107	10282	0.499	ppbv	84
56) 1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv #	1
57) Chlorobenzene	8.917	112	18149m	0.543	ppbv	
58) Ethyl Benzene	9.351	91	32624	0.512	ppbv	97
59) m/p-Xylene	9.532	91	54197m	1.053	ppbv	
60) o-Xylene	9.963	91	27983	0.541	ppbv	99
61) Styrene	9.869	104	12736	0.516	ppbv	96
62) Isopropylbenzene	10.539	105	40481	0.533	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv	99
64) n-propylbenzene	10.985	120	10369	0.544	ppbv	97
65) tert-Butylbenzene	11.529	119	37294	0.535	ppbv	93
66) Benzyl Chloride	11.613	91	3878	0.506	ppbv #	91
67) sec-Butylbenzene	11.765	105	52139	0.537	ppbv	97
69) p-Isopropyltoluene	11.924	119	45574	0.541	ppbv	98
70) n-Butylbenzene	12.280	91	48004	0.547	ppbv	99
71) 2-Chlorotoluene	10.898	91	31709	0.533	ppbv	100
72) 4-Ethyltoluene	11.125	105	33048	0.523	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv	96
77) 1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv	98
79) Naphthalene	13.513	128	38521	0.494	ppbv #	92
80) Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv	97

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

