

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022125\
 Data File : VL042036.D
 Acq On : 21 Feb 2025 11:54
 Operator : SY/MD
 Sample : VL0221ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0221ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2025
 Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 21 21:51:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	87230	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.952	114	234490	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.878	117	217352	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 187789 10.474 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	156627	10.430	ppbv	93
3) Chlorodifluoromethane	1.473	51	191339	11.526	ppbv	100
4) Chloromethane	1.531	50	62127	10.646	ppbv	100
5) Vinyl Chloride	1.576	62	57710	8.270	ppbv	99
6) Bromomethane	1.667	94	27239	10.070	ppbv	100
7) Chloroethane	1.703	64	23440	10.307	ppbv	95
8) Dichlorotetrafluoroethane	1.550	85	133162	10.081	ppbv	99
9) Propene	1.483	41	77353	10.808	ppbv	99
10) Heptane	4.975	43	223148	11.228	ppbv	100
11) Trichlorofluoromethane	1.874	101	156561	10.360	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	125116	10.617	ppbv	97
13) Ethanol	1.719	45	4444	5.505	ppbv	89
14) Bromoethene	1.780	108	43759	9.943	ppbv	96
15) Acetone	1.832	43	130243	9.046	ppbv	96
16) 1,3-Butadiene	1.605	39	65240	9.552	ppbv	97
17) tert-Butyl alcohol	2.039	59	174387	9.789	ppbv	97
18) 1,1-Dichloroethene	2.033	96	52944	9.401	ppbv	99
19) Isopropyl Alcohol	1.884	45	73318	9.081	ppbv	98
20) Methylene Chloride	2.059	84	50993	9.408	ppbv	97
21) Allyl Chloride	2.094	41	104113	9.988	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	63330	10.363	ppbv	99
23) Vinyl Acetate	2.460	43	85661	10.987	ppbv	98
24) 1,1-Dichloroethane	2.405	63	126212	10.172	ppbv	99
25) Ethyl Acetate	2.832	43	450097	11.390	ppbv	100
26) Hexane	2.822	57	188468	11.884	ppbv	96
27) Carbon Disulfide	2.146	76	157760	10.577	ppbv #	91
28) Methyl tert-Butyl Ether	2.437	73	91678	9.457	ppbv	99
29) Chloroform	2.845	83	268628	11.696	ppbv	93
30) Cyclohexane	3.852	84	155350	12.076	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	184559	11.775	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	277983	10.913	ppbv	98
34) 2-Butanone	2.554	43	257422	12.760	ppbv	100
35) Carbon Tetrachloride	3.758	117	270032	11.859	ppbv	98
36) Benzene	3.654	78	361009	12.710	ppbv	99
37) 1,2-Dichloroethane	3.217	62	214103	13.241	ppbv	98
38) Trichloroethene	4.541	130	132838	11.511	ppbv	94
39) 1,2-Dichloropropane	4.308	63	131324	12.611	ppbv	92
40) 1,4-Dioxane	4.583	88	59088	10.904	ppbv #	77
41) Tetrahydrofuran	3.052	42	150679	13.069	ppbv	99
42) Bromodichloromethane	4.486	83	301730	13.773	ppbv	95
43) Methyl Methacrylate	4.878	69	148081	11.436	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	621047	12.880	ppbv	100
45) t-1,3-Dichloropropene	6.409	75	158483	12.965	ppbv	97

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	200863m	12.951	ppbv	
47) 1,1,2-Trichloroethane	6.580	97	137710	12.565	ppbv	97
48) Dibromochloromethane	7.383	129	226972	12.365	ppbv	98
49) Bromoform	9.480	173	185384	12.313	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376694	12.150	ppbv	100
51) 2-Hexanone	7.435	43	309742	12.215	ppbv #	97
52) Tetrachloroethene	8.224	164	107025	10.803	ppbv	90
53) Toluene	6.927	91	418778	12.373	ppbv	100
54) 1,2-Dibromoethane	7.648	107	186165	12.337	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.920	131	170287	10.946	ppbv	97
57) Chlorobenzene	8.917	112	297261	11.626	ppbv	99
58) Ethyl Benzene	9.351	91	582870	12.253	ppbv	99
59) m/p-Xylene	9.548	91	917136m	24.478	ppbv	
60) o-Xylene	9.963	91	457674	12.078	ppbv	98
61) Styrene	9.865	104	213332	11.806	ppbv	98
62) Isopropylbenzene	10.539	105	673139	11.832	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.959	83	281403	11.510	ppbv	100
64) n-propylbenzene	10.985	120	162043	11.592	ppbv	96
65) tert-Butylbenzene	11.529	119	567503	11.443	ppbv	97
66) Benzyl Chloride	11.616	91	55223	11.108	ppbv	96
67) sec-Butylbenzene	11.765	105	822537	11.807	ppbv	97
69) p-Isopropyltoluene	11.924	119	647398	11.353	ppbv	98
70) n-Butylbenzene	12.280	91	678198	12.073	ppbv	99
71) 2-Chlorotoluene	10.901	91	513737	11.991	ppbv	98
72) 4-Ethyltoluene	11.124	105	530991	11.960	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	449841	11.746	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	476903	11.603	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	253168	11.443	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	250798	11.624	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	242336	11.458	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	162727	9.300	ppbv	99
79) Naphthalene	13.513	128	379912	9.397	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	123985	6.774	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	164496	10.009	ppbv	99

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

