

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	151226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 312013 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv	95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv	100
4) Chloromethane	1.534	50	7546	0.974	ppbv	94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv	97
6) Bromomethane	1.674	94	4139	1.107	ppbv #	81
7) Chloroethane	1.709	64	3093	1.013	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv	100
9) Propene	1.486	41	8719	0.981	ppbv	93
10) Heptane	5.001	43	24438	1.029	ppbv	96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv	95
13) Ethanol	1.725	45	650	0.998	ppbv #	29
14) Bromoethene	1.787	108	6736	1.096	ppbv #	88
15) Acetone	1.842	43	19681	1.084	ppbv	95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv	98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv	95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv	
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv #	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv #	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv	96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv	97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv	98
26) Hexane	2.836	57	18893	0.975	ppbv	86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv #	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv	98
29) Chloroform	2.858	83	31155	1.017	ppbv	97
30) Cyclohexane	3.871	84	18048	1.074	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv	99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv	98
34) 2-Butanone	2.570	43	29280	1.015	ppbv	99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv	96
36) Benzene	3.671	78	43023	1.035	ppbv	93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv	98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv	
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv	98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv	
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv	
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv	
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv	
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv	100
49) Bromoform	9.497	173	17876	0.912	ppbv	100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv	
51) 2-Hexanone	7.464	43	28999	0.959	ppbv #	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv #	80
53) Toluene	6.956	91	45140m	0.996	ppbv	
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv	94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv	98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv	99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv	
60) o-Xylene	9.972	91	48888	0.998	ppbv	98
61) Styrene	9.882	104	20285	0.923	ppbv	99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv	97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv	99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv	98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv	
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv	97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv	98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv	99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv	99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv	97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv	99
79) Naphthalene	13.523	128	66232	1.174	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv	99

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

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