

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122023\
 Data File : VL040916.D
 Acq On : 20 Dec 2023 12:25
 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 12/21/2023
 Supervised By : Mahesh Dadoda 12/21/2023

Quant Time: Dec 21 07:09:16 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

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

QLast Update : Thu Dec 21 07:06:17 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1257402	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	3234029	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2908234	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.748 95 2129885 9.943 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.729	85	256549	1.071	ppbv	96
3) Chlorodifluoromethane	2.678	51	204234	1.079	ppbv	100
4) Chloromethane	2.816	50	76891	1.102	ppbv #	88
5) Vinyl Chloride	2.922	62	72990	1.124	ppbv	96
6) Bromomethane	3.118	94	29429	0.987	ppbv	98
7) Chloroethane	3.198	64	23607	0.983	ppbv #	85
8) Dichlorotetrafluoroethane	2.858	85	187024	1.084	ppbv	96
9) Propene	2.697	41	65089	1.043	ppbv	94
10) Heptane	7.558	43	161778	1.042	ppbv	96
11) Trichlorofluoromethane	3.559	101	199197	1.064	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.057	101	144550	0.994	ppbv	97
13) Ethanol	3.256	45	17375m	1.245	ppbv	
14) Bromoethene	3.362	108	56119	1.053	ppbv	94
15) Acetone	3.472	43	173272	1.149	ppbv	97
16) 1,3-Butadiene	2.983	39	72405	1.115	ppbv	95
17) tert-Butyl alcohol	3.880	59	116607	1.045	ppbv	95
18) 1,1-Dichloroethene	3.870	96	63177	1.052	ppbv	93
19) Isopropyl Alcohol	3.581	45	86129m	1.080	ppbv	
20) Methylene Chloride	3.928	84	54843	1.010	ppbv	88
21) Allyl Chloride	3.989	41	85976	0.965	ppbv	90
22) trans-1,2-Dichloroethene	4.436	96	75347	1.089	ppbv	95
23) Vinyl Acetate	4.616	43	163950	0.962	ppbv #	98
24) 1,1-Dichloroethane	4.552	63	158705	1.066	ppbv	99
25) Ethyl Acetate	5.195	43	274232	1.049	ppbv	97
26) Hexane	5.198	57	123334	1.057	ppbv	97
27) Carbon Disulfide	4.118	76	150911	0.963	ppbv	97
28) Methyl tert-Butyl Ether	4.581	73	113076	1.052	ppbv	99
29) Chloroform	5.256	83	203699	1.042	ppbv	91
30) Cyclohexane	6.584	84	103376	1.071	ppbv	92
31) cis-1,2-Dichloroethene	5.063	61	123189	1.036	ppbv	95
32) 1,1,1-Trichloroethane	5.986	97	201528	1.082	ppbv	99
34) 2-Butanone	4.784	43	178110	1.041	ppbv	99
35) Carbon Tetrachloride	6.475	117	211167	1.039	ppbv	98
36) Benzene	6.349	78	264404	1.046	ppbv	94
37) 1,2-Dichloroethane	5.787	62	152110	1.004	ppbv	100
38) Trichloroethene	7.269	130	99297	1.021	ppbv	93
39) 1,2-Dichloropropane	7.054	63	100597	1.010	ppbv	94
40) 1,4-Dioxane	7.282	88	43862m	1.064	ppbv	
41) Tetrahydrofuran	5.558	42	104180m	1.003	ppbv	
42) Bromodichloromethane	7.224	83	221877	1.016	ppbv	98
43) Methyl Methacrylate	7.459	69	97672m	0.991	ppbv	
44) 2,2,4-Trimethylpentane	7.301	57	456135	1.062	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	64631m	0.884	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.118	75	89037	0.978	ppbv	98
47) 1,1,2-Trichloroethane	8.873	97	108091	1.014	ppbv	91
48) Dibromochloromethane	9.684	129	178669	0.993	ppbv	99
49) Bromoform	12.375	173	133889	0.961	ppbv	98
50) 4-Methyl-2-Pentanone	8.172	43	249241	0.960	ppbv	98
51) 2-Hexanone	9.549	43	189081m	1.012	ppbv	
52) Tetrachloroethene	10.590	164	90707m	1.064	ppbv	
53) Toluene	9.195	91	291871	1.033	ppbv	99
54) 1,2-Dibromoethane	9.979	107	144097	0.990	ppbv	89
56) 1,1,1,2-Tetrachloroethane	11.481	131	134808	1.060	ppbv #	1
57) Chlorobenzene	11.504	112	227231m	1.059	ppbv	
58) Ethyl Benzene	12.060	91	403837	1.081	ppbv	98
59) m/p-Xylene	12.343	91	681316m	2.144	ppbv	
60) o-Xylene	13.031	91	324412	1.084	ppbv	99
61) Styrene	12.870	104	141707	0.992	ppbv	99
62) Isopropylbenzene	14.002	105	477758	1.076	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.015	83	237144m	1.103	ppbv	
64) n-propylbenzene	14.889	120	116613m	1.041	ppbv	
65) tert-Butylbenzene	16.060	119	413081	1.077	ppbv	97
66) Benzyl Chloride	16.298	91	20757m	0.799	ppbv	
67) sec-Butylbenzene	16.606	105	598744	1.092	ppbv	97
69) p-Isopropyltoluene	16.970	119	454179m	1.067	ppbv	
70) n-Butylbenzene	17.857	91	460975	1.042	ppbv	98
71) 2-Chlorotoluene	14.770	91	366417	1.072	ppbv	98
72) 4-Ethyltoluene	15.163	105	337313	1.027	ppbv	96
73) 1,3,5-Trimethylbenzene	15.323	105	288738	1.018	ppbv	95
74) 1,2,4-Trimethylbenzene	16.076	105	325070	1.030	ppbv #	90
75) 1,3-Dichlorobenzene	16.301	146	182110	1.007	ppbv	95
76) 1,4-Dichlorobenzene	16.445	146	188518m	1.067	ppbv	
77) 1,2-Dichlorobenzene	17.117	146	184599m	1.058	ppbv	
78) Hexachloro-1,3-Butadiene	22.603	225	124187	1.147	ppbv	98
79) Naphthalene	21.362	128	147247m	0.998	ppbv	
80) Naphthalene,2-methyl-	24.445	142	24844m	0.963	ppbv	
81) 1,2,4-Trichlorobenzene	21.117	180	80230m	0.907	ppbv	

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

