

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091423\
 Data File : VL040682.D
 Acq On : 14 Sep 2023 13:08
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/15/2023
 Supervised By : Mahesh Dadoda 09/15/2023

Quant Time: Sep 14 13:55:15 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Wed Aug 16 05:43:50 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	993651	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.642	114	2709395	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.458	117	2310771	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 1928099 10.492 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.719	85	136482	0.638	ppbv	97
3) Chlorodifluoromethane	2.668	51	98323	0.603	ppbv	97
4) Chloromethane	2.806	50	35771	0.562	ppbv #	80
5) Vinyl Chloride	2.912	62	36000	0.533	ppbv	91
6) Bromomethane	3.115	94	21568	0.609	ppbv #	73
7) Chloroethane	3.186	64	14883	0.604	ppbv #	81
8) Dichlorotetrafluoroethane	2.848	85	108288	0.625	ppbv	96
9) Propene	2.687	41	19289	0.382	ppbv #	78
10) Heptane	7.571	43	41962	0.360	ppbv	86
11) Trichlorofluoromethane	3.552	101	117922	0.682	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.057	101	89029	0.694	ppbv	100
13) Ethanol	3.247	45	8212m	0.582	ppbv	
14) Bromoethene	3.359	108	29756	0.571	ppbv #	85
15) Acetone	3.472	43	76833	0.632	ppbv	93
16) 1,3-Butadiene	2.973	39	28392	0.470	ppbv	90
17) tert-Butyl alcohol	3.890	59	62656	0.486	ppbv #	92
18) 1,1-Dichloroethene	3.867	96	35993	0.619	ppbv	84
19) Isopropyl Alcohol	3.581	45	33111	0.430	ppbv #	81
20) Methylene Chloride	3.925	84	50550	0.851	ppbv	92
21) Allyl Chloride	3.986	41	42030	0.523	ppbv #	84
22) trans-1,2-Dichloroethene	4.439	96	34335	0.602	ppbv	86
23) Vinyl Acetate	4.623	43	62657	0.452	ppbv #	90
24) 1,1-Dichloroethane	4.555	63	74747	0.631	ppbv #	97
25) Ethyl Acetate	5.205	43	104843	0.459	ppbv	97
26) Hexane	5.205	57	45299	0.410	ppbv #	77
27) Carbon Disulfide	4.118	76	68770	0.523	ppbv #	80
28) Methyl tert-Butyl Ether	4.591	73	48290	0.566	ppbv	98
29) Chloroform	5.263	83	96475	0.552	ppbv	96
30) Cyclohexane	6.587	84	40741m	0.482	ppbv	
31) cis-1,2-Dichloroethene	5.066	61	41319	0.415	ppbv	88
32) 1,1,1-Trichloroethane	5.992	97	96071	0.574	ppbv	97
34) 2-Butanone	4.793	43	63766	0.467	ppbv	100
35) Carbon Tetrachloride	6.484	117	96542	0.569	ppbv	93
36) Benzene	6.362	78	83907	0.389	ppbv	95
37) 1,2-Dichloroethane	5.796	62	66100	0.508	ppbv	100
38) Trichloroethene	7.285	130	37192m	0.446	ppbv	
39) 1,2-Dichloropropane	7.070	63	36626m	0.447	ppbv	
40) 1,4-Dioxane	7.311	88	11937m	0.384	ppbv	
41) Tetrahydrofuran	5.574	42	25872m	0.335	ppbv	
42) Bromodichloromethane	7.237	83	90658	0.501	ppbv	96
43) Methyl Methacrylate	7.481	69	25646m	0.318	ppbv	
44) 2,2,4-Trimethylpentane	7.320	57	133201	0.382	ppbv #	82
45) t-1,3-Dichloropropene	8.703	75	19746m	0.306	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091423\
 Data File : VL040682.D
 Acq On : 14 Sep 2023 13:08
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2023
 Supervised By :Mahesh Dadoda 09/15/2023

Quant Time: Sep 14 13:55:15 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Wed Aug 16 05:43:50 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	26020m	0.331	ppbv	
47) 1,1,2-Trichloroethane	8.893	97	40309	0.435	ppbv #	85
48) Dibromochloromethane	9.706	129	67828	0.468	ppbv	99
49) Bromoform	12.397	173	51749m	0.446	ppbv	
50) 4-Methyl-2-Pentanone	8.192	43	73780m	0.370	ppbv	
51) 2-Hexanone	9.568	43	45899m	0.326	ppbv	
52) Tetrachloroethene	10.610	164	28588m	0.424	ppbv	
53) Toluene	9.214	91	71923m	0.314	ppbv	
54) 1,2-Dibromoethane	9.999	107	49349m	0.418	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.503	131	62399m	0.584	ppbv	
57) Chlorobenzene	11.516	112	97315m	0.546	ppbv	
58) Ethyl Benzene	12.082	91	92184	0.331	ppbv	100
59) m/p-Xylene	12.365	91	203029m	0.799	ppbv	
60) o-Xylene	13.056	91	94973m	0.394	ppbv	
61) Styrene	12.899	104	28137m	0.267	ppbv	
62) Isopropylbenzene	14.021	105	165219m	0.453	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.047	83	101969	0.565	ppbv	97
64) n-propylbenzene	14.918	120	36018m	0.391	ppbv	
65) tert-Butylbenzene	16.089	119	133112	0.421	ppbv	86
66) Benzyl Chloride	16.333	91	17030m	0.429	ppbv	
67) sec-Butylbenzene	16.625	105	210005m	0.455	ppbv	
69) p-Isopropyltoluene	16.992	119	146613	0.406	ppbv #	93
70) n-Butylbenzene	17.886	91	156389	0.397	ppbv	96
71) 2-Chlorotoluene	14.796	91	103929	0.384	ppbv	96
72) 4-Ethyltoluene	15.198	105	101856m	0.375	ppbv	
73) 1,3,5-Trimethylbenzene	15.349	105	104467m	0.430	ppbv	
74) 1,2,4-Trimethylbenzene	16.098	105	140679m	0.495	ppbv	
75) 1,3-Dichlorobenzene	16.320	146	82009m	0.500	ppbv	
76) 1,4-Dichlorobenzene	16.468	146	78716m	0.490	ppbv	
77) 1,2-Dichlorobenzene	17.133	146	88245m	0.546	ppbv	
78) Hexachloro-1,3-Butadiene	22.625	225	67598m	0.552	ppbv	
79) Naphthalene	21.384	128	65051m	0.347	ppbv	
80) Naphthalene,2-methyl-	24.371	142	10488m	0.194	ppbv	
81) 1,2,4-Trichlorobenzene	21.130	180	45413m	0.368	ppbv	

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

Manual Integrations APPROVED

Quant Time: Sep 14 13:55:15 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Aug 16 05:43:50 2023
Response via : Initial Calibration

