

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040437.D
 Acq On : 16 May 2023 13:33
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/17/2023
 Supervised By : Mahesh Dadoda 05/17/2023

Quant Time: May 16 14:03:52 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M

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

QLast Update : Tue May 16 13:37:58 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1070772	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.668	114	2634492	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.487	117	2485736	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.799 95 2117523 10.302 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.726	85	2387532	12.367	ppbv	99
3) Chlorodifluoromethane	2.671	51	1852910	13.243	ppbv	99
4) Chloromethane	2.809	50	1187610	13.436	ppbv	96
5) Vinyl Chloride	2.919	62	1008535	13.823	ppbv	97
6) Bromomethane	3.118	94	317821	13.222	ppbv	95
7) Chloroethane	3.198	64	386773	14.000	ppbv	96
8) Dichlorotetrafluoroethane	2.854	85	2533518	13.428	ppbv	99
9) Propene	2.690	41	742519	13.433	ppbv	100
10) Heptane	7.594	43	1952094	15.539	ppbv	100
11) Trichlorofluoromethane	3.565	101	2631865	13.466	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.070	101	1892040	13.841	ppbv	99
13) Ethanol	3.243	45	47927	10.386	ppbv	98
14) Bromoethene	3.365	108	827631	14.807	ppbv	97
15) Acetone	3.468	43	1806364	11.911	ppbv	100
16) 1,3-Butadiene	2.983	39	907562	14.460	ppbv	98
17) tert-Butyl alcohol	3.880	59	1744850	12.529	ppbv	100
18) 1,1-Dichloroethene	3.883	96	867269	14.068	ppbv	97
19) Isopropyl Alcohol	3.574	45	869775	12.569	ppbv	99
20) Methylene Chloride	3.935	84	723356	11.947	ppbv	99
21) Allyl Chloride	3.999	41	1276419	14.812	ppbv	98
22) trans-1,2-Dichloroethene	4.452	96	897724	14.565	ppbv	98
23) Vinyl Acetate	4.632	43	503982	13.052	ppbv #	95
24) 1,1-Dichloroethane	4.568	63	1804169	14.039	ppbv	99
25) Ethyl Acetate	5.214	43	3624704	14.203	ppbv	100
26) Hexane	5.221	57	1511093	14.046	ppbv	100
27) Carbon Disulfide	4.127	76	2197672	15.785	ppbv	99
28) Methyl tert-Butyl Ether	4.590	73	1597690	14.386	ppbv	99
29) Chloroform	5.285	83	2654883	13.853	ppbv	97
30) Cyclohexane	6.613	84	1287334	15.450	ppbv	99
31) cis-1,2-Dichloroethene	5.086	61	1594739	14.955	ppbv	99
32) 1,1,1-Trichloroethane	6.015	97	2698026	14.489	ppbv	100
34) 2-Butanone	4.793	43	2149004	15.128	ppbv	99
35) Carbon Tetrachloride	6.507	117	2796150	15.077	ppbv	97
36) Benzene	6.385	78	3218600	14.974	ppbv	98
37) 1,2-Dichloroethane	5.819	62	2120272	15.017	ppbv	100
38) Trichloroethene	7.307	130	2056370	16.810	ppbv	97
39) 1,2-Dichloropropane	7.089	63	1250963	14.791	ppbv	98
40) 1,4-Dioxane	7.298	88	487849	15.061	ppbv #	96
41) Tetrahydrofuran	5.565	42	1218791	15.666	ppbv	99
42) Bromodichloromethane	7.266	83	2975454	15.432	ppbv	97
43) Methyl Methacrylate	7.491	69	1325616	16.605	ppbv	99
44) 2,2,4-Trimethylpentane	7.343	57	5315904	14.807	ppbv	99
45) t-1,3-Dichloropropene	8.725	75	1356398	19.021	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051623\
 Data File : VL040437.D
 Acq On : 16 May 2023 13:33
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/17/2023
 Supervised By : Mahesh Dadoda 05/17/2023

Quant Time: May 16 14:03:52 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051623AIR.M

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

QLast Update : Tue May 16 13:37:58 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.159	75	1764329	17.775	ppbv	98
47) 1,1,2-Trichloroethane	8.918	97	1394868	15.042	ppbv	99
48) Dibromochloromethane	9.732	129	2442545	16.356	ppbv	99
49) Bromoform	12.429	173	2016376	17.311	ppbv	100
50) 4-Methyl-2-Pentanone	8.195	43	3421966	15.887	ppbv	100
51) 2-Hexanone	9.568	43	2726399	17.130	ppbv	100
52) Tetrachloroethene	10.635	164	1143593	17.009	ppbv	97
53) Toluene	9.240	91	3766287	16.528	ppbv	100
54) 1,2-Dibromoethane	10.031	107	1544105	16.424	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.529	131	1754765	15.466	ppbv	98
57) Chlorobenzene	11.548	112	2979283	15.308	ppbv	98
58) Ethyl Benzene	12.108	91	5187427	16.965	ppbv	97
59) m/p-Xylene	12.397	91	9075362m	32.274	ppbv	
60) o-Xylene	13.082	91	4380359	16.231	ppbv	99
61) Styrene	12.921	104	2584990	19.122	ppbv	99
62) Isopropylbenzene	14.053	105	6132180	15.778	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.069	83	1334512	13.512	ppbv	100
64) n-propylbenzene	14.937	120	1599695	16.727	ppbv	92
65) tert-Butylbenzene	16.114	119	5376528	15.723	ppbv	99
66) Benzyl Chloride	16.349	91	374708	17.699	ppbv	99
67) sec-Butylbenzene	16.661	105	7586730	15.447	ppbv	98
69) p-Isopropyltoluene	17.018	119	6168851	16.085	ppbv	99
70) n-Butylbenzene	17.908	91	6747437	15.871	ppbv	99
71) 2-Chlorotoluene	14.825	91	4822548	16.162	ppbv	99
72) 4-Ethyltoluene	15.214	105	5074092	17.031	ppbv	99
73) 1,3,5-Trimethylbenzene	15.375	105	4515330	16.407	ppbv	99
74) 1,2,4-Trimethylbenzene	16.133	105	4938140	15.699	ppbv	94
75) 1,3-Dichlorobenzene	16.355	146	2785449	16.167	ppbv	99
76) 1,4-Dichlorobenzene	16.497	146	2720564	15.982	ppbv	99
77) 1,2-Dichlorobenzene	17.169	146	2658981	15.608	ppbv	100
78) Hexachloro-1,3-Butadiene	22.660	225	1851994	13.560	ppbv	100
79) Naphthalene	21.407	128	3909872	18.414	ppbv	99
80) Naphthalene,2-methyl-	24.394	142	1299151	20.555	ppbv	97
81) 1,2,4-Trichlorobenzene	21.162	180	2052845	15.733	ppbv	99

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

