

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072623\
 Data File : VL040567.D
 Acq On : 27 Jul 2023 9:31
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/27/2023
 Supervised By : Mahesh Dadoda 07/27/2023

Quant Time: Jul 27 10:08:21 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

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

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1078540	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2777046	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.465	117	2827349m	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.774 95 2090837 9.344 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	2014416	9.337	ppbv	100
3) Chlorodifluoromethane	2.658	51	1781519	10.421	ppbv	98
4) Chloromethane	2.796	50	709644	10.479	ppbv	93
5) Vinyl Chloride	2.906	62	774689	10.894	ppbv	98
6) Bromomethane	3.105	94	335424	11.175	ppbv	94
7) Chloroethane	3.182	64	276754	11.092	ppbv	98
8) Dichlorotetrafluoroethane	2.841	85	1906505	10.741	ppbv	99
9) Propene	2.678	41	584025	9.979	ppbv	99
10) Heptane	7.571	43	1442064	11.159	ppbv	100
11) Trichlorofluoromethane	3.549	101	1933014	11.104	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.054	101	1377293	11.234	ppbv	97
13) Ethanol	3.227	45	137847	10.826	ppbv	99
14) Bromoethene	3.353	108	597982	11.344	ppbv	99
15) Acetone	3.452	43	1348148	10.859	ppbv	99
16) 1,3-Butadiene	2.970	39	681694	10.884	ppbv	99
17) tert-Butyl alcohol	3.861	59	1588413	12.370	ppbv	99
18) 1,1-Dichloroethene	3.867	96	646013	11.462	ppbv	98
19) Isopropyl Alcohol	3.559	45	886903	12.444	ppbv #	97
20) Methylene Chloride	3.919	84	550454	10.424	ppbv	98
21) Allyl Chloride	3.983	41	792275	11.175	ppbv	98
22) trans-1,2-Dichloroethene	4.433	96	637982	11.473	ppbv	99
23) Vinyl Acetate	4.613	43	1297376	10.969	ppbv	99
24) 1,1-Dichloroethane	4.549	63	1316511	10.966	ppbv	99
25) Ethyl Acetate	5.195	43	2537226	10.735	ppbv	99
26) Hexane	5.202	57	1154579	10.515	ppbv	99
27) Carbon Disulfide	4.112	76	1572680	12.176	ppbv	100
28) Methyl tert-Butyl Ether	4.575	73	966876	10.938	ppbv	99
29) Chloroform	5.263	83	1962495	10.776	ppbv	100
30) Cyclohexane	6.594	84	997489	10.917	ppbv	96
31) cis-1,2-Dichloroethene	5.066	61	1208430	11.134	ppbv	99
32) 1,1,1-Trichloroethane	5.992	97	1948255	10.933	ppbv	99
34) 2-Butanone	4.774	43	1538059	11.208	ppbv	99
35) Carbon Tetrachloride	6.484	117	1990038	11.907	ppbv	99
36) Benzene	6.362	78	2467124	11.041	ppbv	98
37) 1,2-Dichloroethane	5.796	62	1485570	11.301	ppbv	99
38) Trichloroethene	7.285	130	993540	11.755	ppbv	99
39) 1,2-Dichloropropane	7.063	63	932705	10.843	ppbv	96
40) 1,4-Dioxane	7.282	88	327053	12.156	ppbv #	32
41) Tetrahydrofuran	5.546	42	916735	11.448	ppbv	99
42) Bromodichloromethane	7.240	83	2131943	11.661	ppbv	96
43) Methyl Methacrylate	7.465	69	990270	11.840	ppbv	98
44) 2,2,4-Trimethylpentane	7.320	57	3946808	10.978	ppbv	98
45) t-1,3-Dichloropropene	8.706	75	726735	13.546	ppbv	98

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 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

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 Supervised By : Mahesh Dadoda 07/27/2023

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

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	875893	12.724	ppbv	96
47) 1,1,2-Trichloroethane	8.893	97	1040423	10.963	ppbv	98
48) Dibromochloromethane	9.706	129	1758656	11.985	ppbv	99
49) Bromoform	12.407	173	1439483	12.374	ppbv	99
50) 4-Methyl-2-Pentanone	8.176	43	2364807	11.861	ppbv	97
51) 2-Hexanone	9.545	43	1747354	12.393	ppbv #	99
52) Tetrachloroethene	10.613	164	863168	11.929	ppbv	96
53) Toluene	9.217	91	2820248	11.620	ppbv	100
54) 1,2-Dibromoethane	10.005	107	1419420	12.033	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.507	131	1306545	10.318	ppbv	96
57) Chlorobenzene	11.526	112	2227317	10.101	ppbv	97
58) Ethyl Benzene	12.085	91	3883868	10.946	ppbv	100
59) m/p-Xylene	12.372	91	6691967m	21.131	ppbv	
60) o-Xylene	13.060	91	3225895	10.693	ppbv	99
61) Styrene	12.896	104	1652125	11.872	ppbv	99
62) Isopropylbenzene	14.028	105	4702957	10.401	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.047	83	2263608	10.714	ppbv	100
64) n-propylbenzene	14.918	120	1233830	10.547	ppbv	94
65) tert-Butylbenzene	16.092	119	4182657	10.449	ppbv	97
66) Benzyl Chloride	16.330	91	334460	11.811	ppbv	99
67) sec-Butylbenzene	16.635	105	6094522	10.362	ppbv	99
69) p-Isopropyltoluene	16.995	119	5086084	10.464	ppbv	99
70) n-Butylbenzene	17.889	91	5716981	10.547	ppbv	99
71) 2-Chlorotoluene	14.802	91	3714502	10.659	ppbv	99
72) 4-Ethyltoluene	15.191	105	3863443	10.925	ppbv	98
73) 1,3,5-Trimethylbenzene	15.349	105	3408995	10.936	ppbv	96
74) 1,2,4-Trimethylbenzene	16.108	105	3812192	10.489	ppbv	96
75) 1,3-Dichlorobenzene	16.330	146	2243192	10.180	ppbv	100
76) 1,4-Dichlorobenzene	16.474	146	2198911	10.177	ppbv	99
77) 1,2-Dichlorobenzene	17.140	146	2174887	10.322	ppbv	99
78) Hexachloro-1,3-Butadiene	22.632	225	1849310	9.346	ppbv	100
79) Naphthalene	21.384	128	3881386	12.622	ppbv	99
80) Naphthalene,2-methyl-	24.371	142	1608041	12.683	ppbv	97
81) 1,2,4-Trichlorobenzene	21.140	180	2269168	10.708	ppbv	100

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

