

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040863.D
 Acq On : 15 Nov 2023 7:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/17/2023
 Supervised By :Semsettin Yesilyurt 11/17/2023

Quant Time: Nov 15 08:26:06 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

QLast Update : Mon Nov 13 15:42:46 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	894798	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.642	114	2759400	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2738929m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.741 95 2057302 9.594 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 95.900%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.758	85	1992293m	10.983	ppbv
3) Chlorodifluoromethane	2.703	51	1597384	11.181	ppbv 99
4) Chloromethane	2.838	50	591636	11.516	ppbv 100
5) Vinyl Chloride	2.944	62	614638	12.029	ppbv 99
6) Bromomethane	3.140	94	219611	11.260	ppbv 97
7) Chloroethane	3.217	64	209411	11.836	ppbv 93
8) Dichlorotetrafluoroethane	2.883	85	1476329	11.272	ppbv 99
9) Propene	2.722	41	558168	11.593	ppbv 100
10) Heptane	7.561	43	1363234	11.510	ppbv 99
11) Trichlorofluoromethane	3.574	101	1587718	11.391	ppbv 99
12) 1,1,2-Trichlorotrifluo...	4.073	101	1152314	11.638	ppbv 99
13) Ethanol	3.256	45	102895	11.006	ppbv # 100
14) Bromoethene	3.381	108	478277	12.009	ppbv 98
15) Acetone	3.481	43	1093446	11.474	ppbv 99
16) 1,3-Butadiene	3.008	39	601979	12.486	ppbv 100
17) tert-Butyl alcohol	3.886	59	1087810	13.348	ppbv 99
18) 1,1-Dichloroethene	3.889	96	492827	11.167	ppbv 99
19) Isopropyl Alcohol	3.590	45	767605	13.384	ppbv # 99
20) Methylene Chloride	3.941	84	417821	10.624	ppbv 98
21) Allyl Chloride	4.005	41	746375	12.238	ppbv 99
22) trans-1,2-Dichloroethene	4.449	96	543184	10.845	ppbv 93
23) Vinyl Acetate	4.626	43	1352000	10.987	ppbv 99
24) 1,1-Dichloroethane	4.565	63	1089232	9.931	ppbv 98
25) Ethyl Acetate	5.198	43	1930543	9.784	ppbv 99
26) Hexane	5.208	57	833920	9.549	ppbv 98
27) Carbon Disulfide	4.131	76	1281765	11.574	ppbv 98
28) Methyl tert-Butyl Ether	4.587	73	809131	10.245	ppbv 99
29) Chloroform	5.269	83	1375116	9.290	ppbv 98
30) Cyclohexane	6.587	84	869411	11.572	ppbv 99
31) cis-1,2-Dichloroethene	5.076	61	840890	9.730	ppbv 97
32) 1,1,1-Trichloroethane	5.992	97	1633301	11.827	ppbv 100
34) 2-Butanone	4.783	43	1234521	8.782	ppbv 99
35) Carbon Tetrachloride	6.481	117	1735741	10.252	ppbv 97
36) Benzene	6.359	78	2139914	9.555	ppbv 99
37) 1,2-Dichloroethane	5.799	62	1257993	9.524	ppbv 99
38) Trichloroethene	7.272	130	840130	9.651	ppbv 98
39) 1,2-Dichloropropane	7.057	63	842868	9.492	ppbv 97
40) 1,4-Dioxane	7.266	88	345187	9.797	ppbv # 95
41) Tetrahydrofuran	5.552	42	864506	9.989	ppbv 99
42) Bromodichloromethane	7.230	83	1841048	9.740	ppbv 96
43) Methyl Methacrylate	7.455	69	891186	10.443	ppbv 99
44) 2,2,4-Trimethylpentane	7.311	57	3550849	9.545	ppbv 100
45) t-1,3-Dichloropropene	8.687	75	577076	11.507	ppbv 99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.121	75	712641	10.959	ppbv	96
47) 1,1,2-Trichloroethane	8.876	97	902457	9.699	ppbv	96
48) Dibromochloromethane	9.680	129	1607861	10.414	ppbv	100
49) Bromoform	12.375	173	1245839	10.729	ppbv	99
50) 4-Methyl-2-Pentanone	8.159	43	2243550	10.313	ppbv	99
51) 2-Hexanone	9.523	43	1664216	10.852	ppbv #	100
52) Tetrachloroethene	10.587	164	751066	9.959	ppbv	97
53) Toluene	9.195	91	2465520	10.005	ppbv	100
54) 1,2-Dibromoethane	9.979	107	1226503	10.243	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.478	131	1131497	9.653	ppbv	97
57) Chlorobenzene	11.497	112	1900470	9.361	ppbv	98
58) Ethyl Benzene	12.060	91	3344677	9.359	ppbv	99
59) m/p-Xylene	12.339	91	5574777m	18.319	ppbv	
60) o-Xylene	13.024	91	2630415	9.080	ppbv	100
61) Styrene	12.867	104	1403045	10.043	ppbv	99
62) Isopropylbenzene	13.995	105	3915474	9.148	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.015	83	1886031	9.185	ppbv	100
64) n-propylbenzene	14.883	120	1037508	9.672	ppbv	96
65) tert-Butylbenzene	16.056	119	3405461	9.436	ppbv	98
66) Benzyl Chloride	16.291	91	131492	9.888	ppbv #	98
67) sec-Butylbenzene	16.603	105	4772714	9.258	ppbv	100
69) p-Isopropyltoluene	16.963	119	3894567	9.474	ppbv	99
70) n-Butylbenzene	17.850	91	4054278	9.340	ppbv	99
71) 2-Chlorotoluene	14.767	91	3023479	9.267	ppbv	98
72) 4-Ethyltoluene	15.159	105	3089337	9.701	ppbv	99
73) 1,3,5-Trimethylbenzene	15.317	105	2648137	9.402	ppbv	98
74) 1,2,4-Trimethylbenzene	16.072	105	2874197	9.144	ppbv	97
75) 1,3-Dichlorobenzene	16.294	146	1653856	9.529	ppbv	99
76) 1,4-Dichlorobenzene	16.439	146	1607496	9.675	ppbv	99
77) 1,2-Dichlorobenzene	17.108	146	1583836	9.386	ppbv	99
78) Hexachloro-1,3-Butadiene	22.590	225	897635	8.496	ppbv	100
79) Naphthalene	21.349	128	2058501	12.742	ppbv	98
80) Naphthalene,2-methyl-	24.348	142	441256	15.473	ppbv	96
81) 1,2,4-Trichlorobenzene	21.104	180	1023887	10.425	ppbv	98

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

