

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061523\
 Data File : VL040464.D
 Acq On : 15 Jun 2023 11:44
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Jun 16 05:34:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Tue Jun 06 06:22:12 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 06/16/2023
 Supervised By : Mahesh Dadoda 06/16/2023

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

Internal Standards						
1) Bromochloromethane	5.198	49	1083664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2713235	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2752396m	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	2159890	9.508	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	2047361	8.681	ppbv	99
3) Chlorodifluoromethane	2.668	51	1638583	9.232	ppbv	98
4) Chloromethane	2.806	50	641160	9.332	ppbv	97
5) Vinyl Chloride	2.915	62	697388	10.171	ppbv	99
6) Bromomethane	3.115	94	344425	9.703	ppbv	94
7) Chloroethane	3.192	64	246278	9.618	ppbv	99
8) Dichlorotetrafluoroethane	2.851	85	1737633	9.329	ppbv	100
9) Propene	2.687	41	513633	9.384	ppbv	100
10) Heptane	7.593	43	1294385	10.448	ppbv	100
11) Trichlorofluoromethane	3.558	101	1778821	9.262	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.066	101	1289901	9.615	ppbv	99
13) Ethanol	3.237	45	108530	9.575	ppbv	94
14) Bromoethene	3.362	108	539127	9.608	ppbv	100
15) Acetone	3.465	43	1157824	8.858	ppbv	99
16) 1,3-Butadiene	2.980	39	620956	9.761	ppbv	99
17) tert-Butyl alcohol	3.877	59	1076689	10.021	ppbv	99
18) 1,1-Dichloroethene	3.880	96	578762	9.682	ppbv	100
19) Isopropyl Alcohol	3.571	45	631230	10.020	ppbv	100
20) Methylene Chloride	3.931	84	483817	8.673	ppbv	97
21) Allyl Chloride	3.996	41	731999	9.915	ppbv	99
22) trans-1,2-Dichloroethene	4.449	96	584434	9.529	ppbv	99
23) Vinyl Acetate	4.629	43	1256615	9.843	ppbv	98
24) 1,1-Dichloroethane	4.565	63	1229341	9.600	ppbv	100
25) Ethyl Acetate	5.211	43	2261860	9.550	ppbv	100
26) Hexane	5.217	57	1047196	9.337	ppbv	98
27) Carbon Disulfide	4.124	76	1480917	10.558	ppbv	100
28) Methyl tert-Butyl Ether	4.587	73	901666	10.443	ppbv	99
29) Chloroform	5.278	83	1801586	9.430	ppbv	99
30) Cyclohexane	6.613	84	872385	9.653	ppbv	99
31) cis-1,2-Dichloroethene	5.082	61	1095823	10.213	ppbv	97
32) 1,1,1-Trichloroethane	6.012	97	1832757	9.719	ppbv	99
34) 2-Butanone	4.787	43	1225689	9.368	ppbv	99
35) Carbon Tetrachloride	6.504	117	1896715	10.258	ppbv	96
36) Benzene	6.378	78	2194198	10.167	ppbv	98
37) 1,2-Dichloroethane	5.815	62	1386752	9.863	ppbv	100
38) Trichloroethene	7.304	130	880993	10.774	ppbv	99
39) 1,2-Dichloropropane	7.085	63	836924	10.060	ppbv	98
40) 1,4-Dioxane	7.304	88	223528	9.485	ppbv #	100
41) Tetrahydrofuran	5.565	42	739944	10.347	ppbv	99
42) Bromodichloromethane	7.262	83	1977615	10.214	ppbv	99
43) Methyl Methacrylate	7.487	69	867568	11.190	ppbv	99
44) 2,2,4-Trimethylpentane	7.340	57	3563831	10.104	ppbv	100
45) t-1,3-Dichloropropene	8.722	75	693829	12.120	ppbv	97

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M

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

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.159	75	809261	11.596	ppbv	96
47) 1,1,2-Trichloroethane	8.915	97	917501	10.034	ppbv	96
48) Dibromochloromethane	9.728	129	1559806	10.670	ppbv	99
49) Bromoform	12.426	173	1202162	10.869	ppbv	99
50) 4-Methyl-2-Pentanone	8.195	43	1855157	10.587	ppbv	99
51) 2-Hexanone	9.564	43	1329104	10.925	ppbv	99
52) Tetrachloroethene	10.629	164	757538	11.179	ppbv	96
53) Toluene	9.237	91	2499599	10.996	ppbv	99
54) 1,2-Dibromoethane	10.024	107	1329518	11.091	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.529	131	1183540	9.149	ppbv	99
57) Chlorobenzene	11.545	112	1925326	9.255	ppbv	100
58) Ethyl Benzene	12.108	91	3431555	10.290	ppbv	100
59) m/p-Xylene	12.391	91	5989007m	19.541	ppbv	
60) o-Xylene	13.079	91	2874370	9.888	ppbv	100
61) Styrene	12.915	104	1443826	11.541	ppbv	100
62) Isopropylbenzene	14.050	105	4175172	9.662	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.066	83	1753787	9.317	ppbv	99
64) n-propylbenzene	14.934	120	1066166	9.718	ppbv	97
65) tert-Butylbenzene	16.108	119	3609752	9.737	ppbv	99
66) Benzyl Chloride	16.346	91	278961	9.764	ppbv	99
67) sec-Butylbenzene	16.654	105	5199654	9.618	ppbv	100
69) p-Isopropyltoluene	17.014	119	4273088	9.946	ppbv	99
70) n-Butylbenzene	17.905	91	4691351	9.783	ppbv	100
71) 2-Chlorotoluene	14.822	91	3223780	10.047	ppbv	100
72) 4-Ethyltoluene	15.211	105	3384607	10.337	ppbv	99
73) 1,3,5-Trimethylbenzene	15.371	105	2916994	10.080	ppbv	98
74) 1,2,4-Trimethylbenzene	16.127	105	3270221	9.606	ppbv	98
75) 1,3-Dichlorobenzene	16.352	146	1835453	9.611	ppbv	99
76) 1,4-Dichlorobenzene	16.493	146	1802917	9.709	ppbv	100
77) 1,2-Dichlorobenzene	17.162	146	1704570	9.449	ppbv	99
78) Hexachloro-1,3-Butadiene	22.660	225	1219756m	8.767	ppbv	
79) Naphthalene	21.406	128	2440988	12.449	ppbv	100
80) Naphthalene,2-methyl-	24.387	142	767413	13.042	ppbv	98
81) 1,2,4-Trichlorobenzene	21.159	180	1388096	11.428	ppbv	99

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

