

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091423\
 Data File : VL040689.D
 Acq On : 14 Sep 2023 17:45
 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 09/15/2023
 Supervised By : Mahesh Dadoda 09/15/2023

Quant Time: Sep 14 19:41:49 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 : Thu Sep 14 17:47:09 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1169827	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2933279	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3072237m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2269866 9.290 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.722	85	2966690	11.774	ppbv	100
3) Chlorodifluoromethane	2.668	51	2483122	12.928	ppbv	99
4) Chloromethane	2.806	50	951909	12.706	ppbv	99
5) Vinyl Chloride	2.912	62	1115806	14.027	ppbv	98
6) Bromomethane	3.115	94	563224	13.506	ppbv	99
7) Chloroethane	3.192	64	391241	13.483	ppbv	100
8) Dichlorotetrafluoroethane	2.851	85	2812908	13.793	ppbv	100
9) Propene	2.687	41	728141	12.234	ppbv	98
10) Heptane	7.574	43	1884270	13.749	ppbv	98
11) Trichlorofluoromethane	3.555	101	3130681	15.391	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.060	101	2234651	14.800	ppbv	99
13) Ethanol	3.234	45	170135	10.243	ppbv	99
14) Bromoethene	3.359	108	956533	15.602	ppbv	99
15) Acetone	3.459	43	1984099	13.866	ppbv	98
16) 1,3-Butadiene	2.980	39	963166	13.536	ppbv	97
17) tert-Butyl alcohol	3.870	59	2018822	13.304	ppbv	100
18) 1,1-Dichloroethene	3.873	96	1011970	14.790	ppbv	94
19) Isopropyl Alcohol	3.568	45	1138004	12.543	ppbv #	98
20) Methylene Chloride	3.925	84	881118	12.601	ppbv	97
21) Allyl Chloride	3.989	41	1354167	14.308	ppbv	99
22) trans-1,2-Dichloroethene	4.439	96	1048300	15.607	ppbv	97
23) Vinyl Acetate	4.619	43	2450290	15.028	ppbv	99
24) 1,1-Dichloroethane	4.555	63	2065625	14.815	ppbv	99
25) Ethyl Acetate	5.198	43	3463673	12.889	ppbv	99
26) Hexane	5.205	57	1503761	11.566	ppbv	100
27) Carbon Disulfide	4.118	76	2587345	16.715	ppbv	99
28) Methyl tert-Butyl Ether	4.578	73	1456582	14.491	ppbv	99
29) Chloroform	5.269	83	2772614	13.472	ppbv	98
30) Cyclohexane	6.597	84	1316838	13.237	ppbv	99
31) cis-1,2-Dichloroethene	5.073	61	1605779	13.685	ppbv	98
32) 1,1,1-Trichloroethane	5.999	97	2895294	14.692	ppbv	99
34) 2-Butanone	4.780	43	2046044	13.832	ppbv	99
35) Carbon Tetrachloride	6.487	117	3034707	16.534	ppbv	99
36) Benzene	6.365	78	3186964	13.657	ppbv	97
37) 1,2-Dichloroethane	5.803	62	2150066	15.277	ppbv	100
38) Trichloroethene	7.285	130	1397248	15.463	ppbv	98
39) 1,2-Dichloropropane	7.069	63	1221925	13.764	ppbv	96
40) 1,4-Dioxane	7.278	88	476675	14.172	ppbv #	95
41) Tetrahydrofuran	5.549	42	1156126	13.828	ppbv	98
42) Bromodichloromethane	7.243	83	3101126	15.830	ppbv	99
43) Methyl Methacrylate	7.468	69	1368448	15.662	ppbv	99
44) 2,2,4-Trimethylpentane	7.320	57	5298691	14.048	ppbv	100
45) t-1,3-Dichloropropene	8.703	75	1235142	17.701	ppbv	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	1381222	16.227	ppbv	98
47) 1,1,2-Trichloroethane	8.892	97	1439063	14.349	ppbv	98
48) Dibromochloromethane	9.703	129	2656411	16.925	ppbv	100
49) Bromoform	12.404	173	2244229	17.847	ppbv	99
50) 4-Methyl-2-Pentanone	8.172	43	3234341	14.967	ppbv	98
51) 2-Hexanone	9.542	43	2394882	15.729	ppbv #	99
52) Tetrachloroethene	10.609	164	1204487	16.481	ppbv	96
53) Toluene	9.217	91	3870711	15.609	ppbv	100
54) 1,2-Dibromoethane	10.002	107	2108636	16.514	ppbv	96
56) 1,1,1,2-Tetrachloroethane	11.503	131	1975819	13.900	ppbv #	74
57) Chlorobenzene	11.523	112	3164623	13.347	ppbv	95
58) Ethyl Benzene	12.082	91	5357729	14.462	ppbv	98
59) m/p-Xylene	12.368	91	9572801m	28.327	ppbv	
60) o-Xylene	13.053	91	4683735	14.622	ppbv	99
61) Styrene	12.892	104	2304869	16.422	ppbv	99
62) Isopropylbenzene	14.024	105	6669750	13.759	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.043	83	3362968	14.018	ppbv	99
64) n-propylbenzene	14.908	120	1771016	14.456	ppbv	94
65) tert-Butylbenzene	16.085	119	6062981	14.431	ppbv	99
66) Benzyl Chloride	16.320	91	837837	15.858	ppbv	99
67) sec-Butylbenzene	16.628	105	8452619	13.789	ppbv	100
69) p-Isopropyltoluene	16.989	119	6916843	14.421	ppbv	99
70) n-Butylbenzene	17.879	91	7490043	14.304	ppbv	99
71) 2-Chlorotoluene	14.796	91	5241947	14.574	ppbv	98
72) 4-Ethyltoluene	15.188	105	5375207	14.865	ppbv	99
73) 1,3,5-Trimethylbenzene	15.346	105	4696830	14.531	ppbv	96
74) 1,2,4-Trimethylbenzene	16.101	105	5349210	14.171	ppbv	98
75) 1,3-Dichlorobenzene	16.326	146	3078599	14.105	ppbv	99
76) 1,4-Dichlorobenzene	16.468	146	3001069	14.065	ppbv	100
77) 1,2-Dichlorobenzene	17.140	146	2949612	13.736	ppbv	100
78) Hexachloro-1,3-Butadiene	22.625	225	2121929	13.024	ppbv	99
79) Naphthalene	21.378	128	4511170	18.095	ppbv	98
80) Naphthalene,2-methyl-	24.368	142	1415917	19.737	ppbv	97
81) 1,2,4-Trichlorobenzene	21.130	180	2408494	14.678	ppbv	99

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

