

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040804.D
 Acq On : 25 Oct 2023 17:33
 Operator : SY/MD
 Sample : 04699-15 0.45 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/26/2023
 Supervised By :Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 03:53:31 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

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

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	927048	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2451821	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.449	117	2262749	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.754 95 1815217 10.902 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 109.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.742	85	88174	0.540	ppbv	91
3) Chlorodifluoromethane	2.687	51	76768	0.563	ppbv	99
4) Chloromethane	2.825	50	25292	0.470	ppbv	97
5) Vinyl Chloride	2.932	62	23906	0.430	ppbv	99
6) Bromomethane	3.131	94	11511m	0.501	ppbv	
7) Chloroethane	3.205	64	10176m	0.562	ppbv	
8) Dichlorotetrafluoroethane	2.870	85	68866	0.556	ppbv	99
9) Propene	2.710	41	24409	0.482	ppbv	98
10) Heptane	7.562	43	56415m	0.444	ppbv	
11) Trichlorofluoromethane	3.568	101	67549	0.536	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.070	101	46167	0.514	ppbv	100
13) Ethanol	3.266	45	7229m	0.633	ppbv	
14) Bromoethene	3.372	108	18445	0.479	ppbv #	86
15) Acetone	3.488	43	61404	0.641	ppbv	94
16) 1,3-Butadiene	2.993	39	24008	0.478	ppbv	92
17) tert-Butyl alcohol	3.899	59	37567	0.382	ppbv #	93
18) 1,1-Dichloroethene	3.880	96	19020	0.472	ppbv	97
19) Isopropyl Alcohol	3.600	45	33735m	0.547	ppbv	
20) Methylene Chloride	3.941	84	24864m	0.623	ppbv	
21) Allyl Chloride	4.002	41	29678	0.470	ppbv	96
22) trans-1,2-Dichloroethene	4.443	96	18606	0.434	ppbv #	80
23) Vinyl Acetate	4.629	43	57507m	0.471	ppbv	
24) 1,1-Dichloroethane	4.562	63	41942	0.455	ppbv	98
25) Ethyl Acetate	5.211	43	87895	0.419	ppbv #	94
26) Hexane	5.214	57	44442m	0.463	ppbv	
27) Carbon Disulfide	4.131	76	42444	0.401	ppbv #	71
28) Methyl tert-Butyl Ether	4.597	73	29562m	0.396	ppbv	
29) Chloroform	5.272	83	75803m	0.546	ppbv	
30) Cyclohexane	6.594	84	33813m	0.414	ppbv	
31) cis-1,2-Dichloroethene	5.070	61	41747	0.472	ppbv	95
32) 1,1,1-Trichloroethane	5.996	97	66787	0.452	ppbv #	92
34) 2-Butanone	4.793	43	56804	0.512	ppbv	93
35) Carbon Tetrachloride	6.484	117	66135m	0.481	ppbv	
36) Benzene	6.359	78	86384	0.458	ppbv	96
37) 1,2-Dichloroethane	5.800	62	52898	0.548	ppbv	98
38) Trichloroethene	7.279	130	34423m	0.412	ppbv	
39) 1,2-Dichloropropane	7.060	63	37904m	0.514	ppbv	
40) 1,4-Dioxane	7.308	88	16388m	0.588	ppbv	
41) Tetrahydrofuran	5.581	42	34520m	0.449	ppbv	
42) Bromodichloromethane	7.240	83	71891	0.497	ppbv #	93
43) Methyl Methacrylate	7.465	69	26212	0.347	ppbv #	72
44) 2,2,4-Trimethylpentane	7.314	57	152443	0.478	ppbv	95
45) t-1,3-Dichloropropene	8.693	75	17980m	0.299	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.127	75	26720m	0.363	ppbv	
47) 1,1,2-Trichloroethane	8.889	97	38447m	0.497	ppbv	
48) Dibromochloromethane	9.697	129	55977m	0.432	ppbv	
49) Bromoform	12.391	173	40329m	0.383	ppbv	
50) 4-Methyl-2-Pentanone	8.192	43	85958m	0.453	ppbv	
51) 2-Hexanone	9.568	43	55784m	0.386	ppbv	
52) Tetrachloroethene	10.594	164	33166m	0.433	ppbv	
53) Toluene	9.208	91	92966m	0.414	ppbv	
54) 1,2-Dibromoethane	9.992	107	49135m	0.453	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.487	131	43833m	0.475	ppbv	
57) Chlorobenzene	11.507	112	82059	0.506	ppbv	95
58) Ethyl Benzene	12.069	91	131466m	0.461	ppbv	
59) m/p-Xylene	12.349	91	225389m	0.961	ppbv	
60) o-Xylene	13.040	91	103152	0.462	ppbv	100
61) Styrene	12.876	104	48014m	0.388	ppbv	
62) Isopropylbenzene	14.008	105	164166	0.478	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.034	83	88582m	0.529	ppbv	
64) n-propylbenzene	14.899	120	42285	0.458	ppbv	68
65) tert-Butylbenzene	16.079	119	145065m	0.468	ppbv	
66) Benzyl Chloride	16.310	91	7705m	0.247	ppbv	
67) sec-Butylbenzene	16.616	105	203450	0.479	ppbv	96
69) p-Isopropyltoluene	16.979	119	158048m	0.444	ppbv	
70) n-Butylbenzene	17.870	91	166938	0.478	ppbv	95
71) 2-Chlorotoluene	14.780	91	119772	0.464	ppbv	100
72) 4-Ethyltoluene	15.175	105	112414	0.430	ppbv #	93
73) 1,3,5-Trimethylbenzene	15.336	105	102358	0.444	ppbv	95
74) 1,2,4-Trimethylbenzene	16.085	105	117157	0.466	ppbv #	88
75) 1,3-Dichlorobenzene	16.314	146	66032	0.422	ppbv	86
76) 1,4-Dichlorobenzene	16.452	146	66064	0.426	ppbv	88
77) 1,2-Dichlorobenzene	17.127	146	67146	0.437	ppbv	93
78) Hexachloro-1,3-Butadiene	22.596	225	53575m	0.488	ppbv	
79) Naphthalene	21.375	128	47074m	0.230	ppbv	
81) 1,2,4-Trichlorobenzene	21.130	180	35152m	0.316	ppbv	

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

