

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041223\
 Data File : VL040349.D
 Acq On : 12 Apr 2023 23:23
 Operator : SY/MD
 Sample : 02213-15 0.40 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2023

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/13/2023
 Supervised By : Mahesh Dadoda 04/13/2023

Quant Time: Apr 13 05:43:05 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Tue Apr 11 04:15:53 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	924773	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2395992	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2140705	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.790 95 1837310 10.249 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.716	85	87696	0.483	ppbv	95
3) Chlorodifluoromethane	2.665	51	52650	0.453	ppbv	100
4) Chloromethane	2.803	50	32654	0.455	ppbv	98
5) Vinyl Chloride	2.909	62	25794	0.444	ppbv #	87
6) Bromomethane	3.108	94	10275m	0.510	ppbv	
7) Chloroethane	3.182	64	10866m	0.487	ppbv	
8) Dichlorotetrafluoroethane	2.845	85	72478	0.467	ppbv	99
9) Propene	2.681	41	20706	0.465	ppbv	97
10) Heptane	7.590	43	36048	0.336	ppbv	98
11) Trichlorofluoromethane	3.552	101	77296	0.470	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.054	101	52906	0.429	ppbv	100
13) Ethanol	3.250	45	2067m	0.633	ppbv	
14) Bromoethene	3.359	108	19094	0.415	ppbv	87
15) Acetone	3.472	43	65522	0.582	ppbv	90
16) 1,3-Butadiene	2.973	39	22906	0.448	ppbv	92
17) tert-Butyl alcohol	3.890	59	45663	0.427	ppbv	99
18) 1,1-Dichloroethene	3.874	96	22215	0.419	ppbv #	84
19) Isopropyl Alcohol	3.587	45	23812m	0.442	ppbv	
20) Methylene Chloride	3.928	84	25229	0.533	ppbv	98
21) Allyl Chloride	3.993	41	29315	0.402	ppbv	98
22) trans-1,2-Dichloroethene	4.443	96	21090	0.391	ppbv #	83
23) Vinyl Acetate	4.632	43	18152m	0.580	ppbv	
24) 1,1-Dichloroethane	4.558	63	44694	0.400	ppbv	98
25) Ethyl Acetate	5.208	43	83071	0.394	ppbv	99
26) Hexane	5.211	57	31587	0.365	ppbv #	79
27) Carbon Disulfide	4.118	76	41344	0.342	ppbv #	88
28) Methyl tert-Butyl Ether	4.597	73	35958	0.362	ppbv #	87
29) Chloroform	5.272	83	69633	0.456	ppbv	93
30) Cyclohexane	6.610	84	23880m	0.350	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	31714	0.376	ppbv	93
32) 1,1,1-Trichloroethane	6.002	97	65100	0.445	ppbv	98
34) 2-Butanone	4.796	43	53327	0.451	ppbv	99
35) Carbon Tetrachloride	6.494	117	64484m	0.429	ppbv	
36) Benzene	6.365	78	66687	0.365	ppbv	98
37) 1,2-Dichloroethane	5.809	62	50747m	0.427	ppbv	
38) Trichloroethene	7.295	130	38014	0.381	ppbv	90
39) 1,2-Dichloropropane	7.076	63	27584	0.385	ppbv	98
40) 1,4-Dioxane	7.340	88	9364m	0.330	ppbv	
41) Tetrahydrofuran	5.581	42	23661m	0.347	ppbv	
42) Bromodichloromethane	7.250	83	64536	0.397	ppbv #	98
43) Methyl Methacrylate	7.484	69	20693m	0.305	ppbv	
44) 2,2,4-Trimethylpentane	7.333	57	108270	0.356	ppbv	93
45) t-1,3-Dichloropropene	8.722	75	15138m	0.256	ppbv	

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

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

QLast Update : Tue Apr 11 04:15:53 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	24080m	0.287	ppbv	
47) 1,1,2-Trichloroethane	8.906	97	30828m	0.403	ppbv	
48) Dibromochloromethane	9.719	129	42687	0.339	ppbv	94
49) Bromoform	12.413	173	31807m	0.337	ppbv	
50) 4-Methyl-2-Pentanone	8.208	43	62082m	0.339	ppbv	
51) 2-Hexanone	9.584	43	41091m	0.290	ppbv	
52) Tetrachloroethene	10.629	164	23238m	0.421	ppbv	
53) Toluene	9.227	91	55634m	0.291	ppbv	
54) 1,2-Dibromoethane	10.021	107	31300m	0.398	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.523	131	39078	0.434	ppbv #	1
57) Chlorobenzene	11.529	112	65963m	0.433	ppbv	
58) Ethyl Benzene	12.095	91	75546m	0.310	ppbv	
59) m/p-Xylene	12.381	91	147232m	0.659	ppbv	
60) o-Xylene	13.073	91	69904m	0.327	ppbv	
61) Styrene	12.912	104	27882m	0.257	ppbv	
62) Isopropylbenzene	14.047	105	110425	0.363	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.069	83	33977m	0.452	ppbv	
64) n-propylbenzene	14.928	120	25629m	0.345	ppbv	
65) tert-Butylbenzene	16.111	119	85593	0.327	ppbv	89
66) Benzyl Chloride	16.343	91	7169m	0.421	ppbv	
67) sec-Butylbenzene	16.651	105	125389	0.335	ppbv	97
69) p-Isopropyltoluene	17.011	119	91554	0.314	ppbv	94
70) n-Butylbenzene	17.908	91	107417	0.334	ppbv	94
71) 2-Chlorotoluene	14.815	91	71788	0.310	ppbv	96
72) 4-Ethyltoluene	15.211	105	70809	0.303	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.362	105	65657	0.311	ppbv	92
74) 1,2,4-Trimethylbenzene	16.121	105	87224	0.362	ppbv	95
75) 1,3-Dichlorobenzene	16.355	146	51134m	0.392	ppbv	
76) 1,4-Dichlorobenzene	16.494	146	50064m	0.402	ppbv	
77) 1,2-Dichlorobenzene	17.156	146	50446m	0.402	ppbv	
78) Hexachloro-1,3-Butadiene	22.654	225	40589m	0.441	ppbv	
79) Naphthalene	21.413	128	37293m	0.261	ppbv	
80) Naphthalene,2-methyl-	24.400	142	6847m	0.190	ppbv	
81) 1,2,4-Trichlorobenzene	21.162	180	26489m	0.302	ppbv	

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

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