

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121724\
 Data File : VL041775.D
 Acq On : 17 Dec 2024 13:10
 Operator : SY/MD
 Sample : MDL 0.4
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL 0.4

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2024
 Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 21 03:01:48 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	57944	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	152011	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	130372	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.386 95 108670 10.003 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	5413	0.525	ppbv	97
3) Chlorodifluoromethane	1.476	51	4377	0.463	ppbv #	91
4) Chloromethane	1.534	50	2152	0.533	ppbv	98
5) Vinyl Chloride	1.583	62	1895	0.466	ppbv	96
6) Bromomethane	1.670	94	877	0.457	ppbv	92
7) Chloroethane	1.706	64	797	0.505	ppbv	91
8) Dichlorotetrafluoroethane	1.557	85	4519	0.490	ppbv	98
9) Propene	1.486	41	1675	0.409	ppbv	95
10) Heptane	4.994	43	3222	0.306	ppbv	97
11) Trichlorofluoromethane	1.881	101	5556	0.507	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	4346	0.522	ppbv	100
13) Ethanol	1.725	45	2081	6.136	ppbv	94
14) Bromoethene	1.784	108	1309	0.465	ppbv #	88
15) Acetone	1.839	43	7303	0.648	ppbv	98
16) 1,3-Butadiene	1.609	39	2460	0.554	ppbv	92
17) tert-Butyl alcohol	2.046	59	5240	0.469	ppbv	100
18) 1,1-Dichloroethene	2.036	96	1720	0.493	ppbv	97
19) Isopropyl Alcohol	1.890	45	5040	0.745	ppbv #	34
20) Methylene Chloride	2.062	84	2088	0.649	ppbv	90
21) Allyl Chloride	2.097	41	2969	0.486	ppbv #	85
22) trans-1,2-Dichloroethene	2.343	96	1814m	0.454	ppbv	
23) Vinyl Acetate	2.466	43	1795m	0.343	ppbv	
24) 1,1-Dichloroethane	2.415	63	3883	0.480	ppbv #	88
25) Ethyl Acetate	2.845	43	8372	0.399	ppbv	98
26) Hexane	2.829	57	2791	0.351	ppbv #	80
27) Carbon Disulfide	2.156	76	1951	0.272	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	2841	0.440	ppbv	93
29) Chloroform	2.852	83	6076	0.501	ppbv	93
30) Cyclohexane	3.861	84	2194m	0.324	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	3276	0.398	ppbv #	80
32) 1,1,1-Trichloroethane	3.373	97	4720	0.383	ppbv	92
34) 2-Butanone	2.567	43	5420	0.443	ppbv	97
35) Carbon Tetrachloride	3.774	117	4653	0.431	ppbv	96
36) Benzene	3.667	78	6579	0.418	ppbv	96
37) 1,2-Dichloroethane	3.227	62	5063	0.517	ppbv	97
38) Trichloroethene	4.561	130	2322	0.348	ppbv	90
39) 1,2-Dichloropropane	4.324	63	2625m	0.462	ppbv	
40) 1,4-Dioxane	4.612	88	1107m	0.398	ppbv	
41) Tetrahydrofuran	3.075	42	2331	0.340	ppbv	96
42) Bromodichloromethane	4.496	83	3983	0.354	ppbv #	81
43) Methyl Methacrylate	4.894	69	1784m	0.298	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	9146m	0.341	ppbv	
45) t-1,3-Dichloropropene	6.425	75	1551m	0.250	ppbv	

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QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	2430m	0.309	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	2727	0.459	ppbv #	70
48) Dibromochloromethane	7.399	129	2678m	0.330	ppbv	
49) Bromoform	9.490	173	1773m	0.267	ppbv	
50) 4-Methyl-2-Pentanone	5.781	43	5354m	0.322	ppbv	
51) 2-Hexanone	7.461	43	3612	0.268	ppbv #	97
52) Tetrachloroethene	8.237	164	2468m	0.422	ppbv	
53) Toluene	6.943	91	5795m	0.325	ppbv	
54) 1,2-Dibromoethane	7.668	107	3439m	0.420	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.933	131	2907	0.421	ppbv #	1
57) Chlorobenzene	8.933	112	6292	0.472	ppbv	90
58) Ethyl Benzene	9.360	91	7132	0.304	ppbv #	88
59) m/p-Xylene	9.561	91	11946m	0.633	ppbv	
60) o-Xylene	9.975	91	6035	0.319	ppbv	96
61) Styrene	9.882	104	2124	0.260	ppbv #	86
62) Isopropylbenzene	10.548	105	9966	0.350	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.972	83	5108	0.431	ppbv	96
64) n-propylbenzene	10.998	120	2145	0.298	ppbv	87
65) tert-Butylbenzene	11.539	119	8123	0.317	ppbv	99
66) Benzyl Chloride	11.626	91	718	0.318	ppbv #	86
67) sec-Butylbenzene	11.778	105	11072	0.312	ppbv #	90
69) p-Isopropyltoluene	11.934	119	8109	0.277	ppbv	95
70) n-Butylbenzene	12.290	91	7927	0.280	ppbv	96
71) 2-Chlorotoluene	10.911	91	6998	0.322	ppbv	97
72) 4-Ethyltoluene	11.131	105	6663	0.298	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	5566	0.300	ppbv #	81
74) 1,2,4-Trimethylbenzene	11.545	105	5877	0.295	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	5526	0.435	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	4955	0.395	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	5316	0.435	ppbv	96
78) Hexachloro-1,3-Butadiene	13.889	225	4270	0.471	ppbv	96
79) Naphthalene	13.520	128	2985	0.215	ppbv #	88
80) Naphthalene,2-methyl-	14.465	142	297	0.069	ppbv	87
81) 1,2,4-Trichlorobenzene	13.448	180	2041	0.269	ppbv	91

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

