

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL122023AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Thu Dec 21 07:32:42 2023

Response Via : Initial Calibration

Calibration Files

0.03=VL040919.D 0.1 =VL040918.D 0.5 =VL040917.D 1 =VL040916.D 2 =VL040915.D 10 =VL040914.D 15 =VL040920.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			2.087	2.040	1.981	1.709	1.706	1.905	9.65
3) Chlorodifluoro...			1.652	1.624	1.562	1.345	1.340	1.505	10.07
4) Chloromethane			0.596	0.612	0.560	0.497	0.510	0.555	9.11
5) T Vinyl Chloride	0.492	0.523	0.551	0.580	0.584	0.504	0.515	0.536	6.82
6) T Bromomethane			0.261	0.234	0.243	0.224	0.226	0.238	6.39
7) Chloroethane			0.207	0.188	0.206	0.175	0.179	0.191	7.82
8) T Dichlorotetra...			1.475	1.487	1.397	1.244	1.259	1.372	8.44
9) T Propene			0.510	0.518	0.535	0.469	0.452	0.497	7.05
10) T Heptane			1.237	1.287	1.326	1.166	1.156	1.234	5.99
11) T Trichlorofluor...			1.558	1.584	1.561	1.370	1.373	1.489	7.25
12) T 1,1,2-Trichlor...			1.165	1.150	1.320	0.992	1.155	1.156	10.04
13) Ethanol			0.153	0.138	0.126	0.103	0.106	0.125	16.85
14) T Bromoethene			0.421	0.446	0.446	0.396	0.409	0.424	5.21
15) T Acetone			1.373	1.378	1.344	0.952	0.950	1.199	18.94
16) T 1,3-Butadiene			0.475	0.576	0.539	0.490	0.502	0.516	7.88
17) tert-Butyl alc...			0.947	0.927	0.883	0.839	0.839	0.887	5.59
18) T 1,1-Dichloroet...			0.505	0.502	0.487	0.428	0.464	0.477	6.66
19) T Isopropyl Alcohol			0.655	0.685	0.657	0.567	0.566	0.626	8.91
20) T Methylene Chlo...			0.476	0.436	0.447	0.362	0.416	0.428	9.90
21) T Allyl Chloride			0.676	0.684	0.804	0.663	0.718	0.709	8.05
22) T trans-1,2-Dich...			0.449	0.599	0.572	0.547	0.555	0.544	10.48
23) T Vinyl Acetate			1.088	1.304	1.387	1.401	1.436	1.323	10.60
24) T 1,1-Dichloroet...			1.058	1.262	1.317	1.131	1.149	1.184	8.83
25) T Ethyl Acetate			2.097	2.181	2.169	1.986	1.957	2.078	4.95
26) T Hexane			0.938	0.981	0.985	0.857	0.845	0.921	7.27
27) T Carbon Disulfide			1.115	1.200	1.462	1.093	1.362	1.246	12.83
28) T Methyl tert-Bu...			0.770	0.899	0.947	0.834	0.823	0.855	8.07
29) T Chloroform			1.599	1.620	1.672	1.436	1.444	1.554	6.93
30) T Cyclohexane			0.749	0.822	0.822	0.733	0.713	0.768	6.68
31) T cis-1,2-Dichlo...			0.926	0.980	1.006	0.910	0.908	0.946	4.70
32) T 1,1,1-Trichlor...	1.468	1.385	1.552	1.603	1.637	1.421	1.453	1.503	6.35

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.506	0.551	0.557	0.515	0.517	0.529	4.34
35) T Carbon Tetrach...	0.595	0.586	0.623	0.653	0.676	0.618	0.632	0.626	5.00
36) T Benzene			0.787	0.818	0.835	0.742	0.728	0.782	5.95
37) T 1,2-Dichloroet...			0.479	0.470	0.484	0.450	0.459	0.468	2.98
38) T Trichloroethene	0.308	0.265	0.296	0.307	0.316	0.280	0.284	0.294	6.23
39) T 1,2-Dichloropr...			0.335	0.311	0.308	0.290	0.292	0.307	5.89

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40)	T	1,4-Dioxane		0.147	0.136	0.131	0.116	0.119	0.130	9.77
41)	T	Tetrahydrofuran		0.331	0.322	0.335	0.312	0.309	0.322	3.53
42)	T	Bromodichlorom...		0.672	0.686	0.710	0.648	0.661	0.676	3.54
43)		Methyl Methacr...		0.289	0.302	0.316	0.311	0.314	0.307	3.59
44)	T	2,2,4-Trimethy...		1.366	1.410	1.433	1.221	1.208	1.328	7.99
45)	T	t-1,3-Dichloro...		0.185	0.200	0.229	0.254	0.269	0.227	15.58
46)	T	cis-1,3-Dichlo...		0.246	0.275	0.294	0.292	0.301	0.282	7.82
47)	T	1,1,2-Trichlor...		0.331	0.334	0.345	0.306	0.314	0.326	4.87
48)	T	Dibromochlorom...		0.527	0.552	0.592	0.549	0.561	0.556	4.22
49)	T	Bromoform		0.374	0.414	0.460	0.441	0.457	0.429	8.38
50)	T	4-Methyl-2-Pen...		0.805	0.771	0.863	0.780	0.787	0.801	4.61
51)	T	2-Hexanone		0.513	0.585	0.613	0.585	0.589	0.577	6.54
52)	T	Tetrachloroethene	0.238 0.243	0.286	0.280	0.280	0.256	0.259	0.263	7.33
53)	T	Toluene		0.810	0.902	0.940	0.842	0.839	0.867	6.14
54)	T	1,2-Dibromoethane	0.387	0.441	0.446	0.491	0.451	0.467	0.447	7.74
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.449	0.464	0.460	0.400	0.415	0.437	6.51
57)	T	Chlorobenzene		0.763	0.781	0.798	0.658	0.682	0.736	8.50
58)	T	Ethyl Benzene		1.279	1.389	1.383	1.171	1.201	1.284	7.82
59)	T	m/p-Xylene		1.130	1.171	1.171	0.984	1.005	1.093	8.34
60)	T	o-Xylene		1.025	1.115	1.113	0.932	0.962	1.029	8.20
61)	T	Styrene		0.419	0.487	0.528	0.494	0.518	0.489	8.77
62)		Isopropylbenzene		1.580	1.643	1.645	1.365	1.400	1.527	8.83
63)	T	1,1,2,2-Tetrac...	0.747 0.660	0.797	0.815	0.793	0.678	0.701	0.742	8.44
64)		n-propylbenzene		0.380	0.401	0.407	0.357	0.369	0.383	5.50
65)		tert-Butylbenzene		1.218	1.420	1.429	1.192	1.229	1.298	9.00
66)	T	Benzyl Chloride		0.070	0.071	0.080	0.101	0.121	0.089	24.67
67)		sec-Butylbenzene		1.931	2.059	2.045	1.679	1.714	1.886	9.53
68)	S	1-Bromo-4-Fluo...	0.743 0.760	0.737	0.732	0.716	0.722	0.747	0.737	2.06
69)		p-Isopropyltol...		1.400	1.562	1.595	1.368	1.404	1.466	7.14
70)		n-Butylbenzene		1.489	1.585	1.623	1.428	1.483	1.522	5.26
71)		2-Chlorotoluene		1.189	1.260	1.261	1.068	1.100	1.176	7.59
72)	T	4-Ethyltoluene		1.097	1.160	1.195	1.081	1.116	1.130	4.16
73)	T	1,3,5-Trimethy...		0.930	0.993	1.058	0.931	0.963	0.975	5.45
74)	T	1,2,4-Trimethy...		1.085	1.118	1.154	1.020	1.050	1.085	4.89
75)	T	1,3-Dichlorobe...		0.627	0.626	0.656	0.581	0.609	0.620	4.46
76)	T	1,4-Dichlorobe...		0.587	0.648	0.638	0.564	0.595	0.606	5.87
77)	T	1,2-Dichlorobe...		0.581	0.635	0.631	0.559	0.580	0.597	5.64
78)	T	Hexachloro-1,3...		0.400	0.427	0.395	0.301	0.314	0.367	15.29
79)	T	Naphthalene	0.279	0.447	0.506	0.581	0.633	0.691	0.523	28.30
80)	T	Naphthalene,2-...		0.058	0.085	0.113	0.101	0.120	0.096	25.92
81)	T	1,2,4-Trichlor...		0.240	0.276	0.310	0.327	0.349	0.300	14.32

(#) = Out of Range