

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

Method File : VL021523AIR.M

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

Last Update : Wed Feb 15 17:01:01 2023

Response Via : Initial Calibration

Calibration Files

0.03=VL040174.D 0.1 =VL040178.D 0.5 =VL040177.D 1 =VL040171.D 2 =VL040170.D 10 =VL040169.D 15 =VL040175.D

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...			2.037	2.111	2.031	1.458	1.682	1.864	15.09
3)	Chlorodifluoro...			1.296	1.263	1.266	1.088	1.060	1.195	9.30
4)	Chloromethane			0.839	0.780	0.782	0.680	0.671	0.750	9.66
5) T	Vinyl Chloride	0.558	0.551	0.642	0.604	0.690	0.586	0.590	0.603	8.08
6) T	Bromomethane			0.226	0.223	0.232	0.204	0.204	0.218	5.97
7)	Chloroethane			0.257	0.255	0.251	0.215	0.217	0.239	8.85
8) T	Dichlorotetra...			1.798	1.677	1.681	1.467	1.406	1.606	10.19
9) T	Propene			0.481	0.526	0.521	0.455	0.451	0.487	7.33
10) T	Heptane			1.033	1.177	1.270	1.157	1.157	1.159	7.29
11) T	Trichlorofluor...			1.899	1.723	1.722	1.496	1.521	1.672	9.93
12) T	1,1,2-Trichlor...			1.322	1.282	1.316	1.123	1.125	1.234	8.22
13)	Ethanol			0.056	0.059	0.051	0.032	0.027	0.045#	33.06
14) T	Bromoethene			0.503	0.469	0.481	0.460	0.453	0.473	4.15
15) T	Acetone			1.353	1.236	1.376	1.023	1.031	1.204	14.11
16) T	1,3-Butadiene			0.540	0.569	0.581	0.539	0.520	0.550	4.52
17)	tert-Butyl alc...			1.206	1.156	1.109	1.092	0.927	1.098	9.61
18) T	1,1-Dichloroet...			0.554	0.569	0.557	0.494	0.507	0.536	6.20
19) T	Isopropyl Alcohol			0.682	0.601	0.613	0.519	0.447	0.572	15.89
20) T	Methylene Chlo...			0.785	0.735	0.766	0.428	0.419	0.627	29.73
21) T	Allyl Chloride			0.686	0.763	0.779	0.743	0.721	0.738	4.97
22) T	trans-1,2-Dich...			0.570	0.548	0.589	0.530	0.538	0.555	4.41
23) T	Vinyl Acetate			0.354	0.362	0.386	0.366	0.359	0.365	3.34
24) T	1,1-Dichloroet...			1.165	1.198	1.216	1.072	1.059	1.142	6.37
25) T	Ethyl Acetate			2.172	2.292	2.517	2.111	2.097	2.238	7.78
26) T	Hexane			0.912	1.062	1.060	0.884	0.885	0.961	9.59
27) T	Carbon Disulfide			1.147	1.115	1.276	1.270	1.287	1.219	6.68
28) T	Methyl tert-Bu...			1.051	1.074	1.087	0.975	0.959	1.029	5.68
29) T	Chloroform			1.726	1.699	1.775	1.519	1.529	1.650	7.15
30) T	Cyclohexane			0.617	0.813	0.829	0.756	0.757	0.754	11.07
31) T	cis-1,2-Dichlo...			0.863	0.953	0.988	0.827	0.934	0.913	7.27
32) T	1,1,1-Trichlor...	1.422	1.460	1.639	1.600	1.681	1.525	1.522	1.550	6.09

33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone			0.486	0.537	0.527	0.455	0.461	0.493	7.56
35) T	Carbon Tetrach...	0.484	0.535	0.597	0.631	0.650	0.607	0.635	0.591	10.21
36) T	Benzene			0.737	0.822	0.834	0.743	0.756	0.778	5.88
37) T	1,2-Dichloroet...			0.498	0.503	0.504	0.455	0.474	0.487	4.49
38) T	Trichloroethene	0.356	0.400	0.423	0.458	0.471	0.442	0.451	0.429	9.26
39) T	1,2-Dichloropr...			0.307	0.310	0.323	0.282	0.292	0.303	5.29

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40)	T	1,4-Dioxane		0.128	0.128	0.129	0.113	0.107	0.121	8.35
41)	T	Tetrahydrofuran		0.243	0.303	0.309	0.285	0.290	0.286	9.10
42)	T	Bromodichlorom...		0.655	0.667	0.707	0.649	0.681	0.672	3.46
43)		Methyl Methacr...		0.238	0.287	0.311	0.295	0.309	0.288	10.24
44)	T	2,2,4-Trimethy...		1.255	1.380	1.407	1.214	1.240	1.299	6.78
45)	T	t-1,3-Dichloro...		0.194	0.219	0.260	0.289	0.315	0.255	19.38
46)	T	cis-1,3-Dichlo...		0.272	0.325	0.381	0.388	0.413	0.356	15.93
47)	T	1,1,2-Trichlor...		0.325	0.336	0.347	0.308	0.321	0.327	4.49
48)	T	Dibromochlorom...		0.455	0.501	0.553	0.538	0.571	0.524	8.82
49)	T	Bromoform		0.349	0.376	0.428	0.430	0.460	0.409	11.03
50)	T	4-Methyl-2-Pen...		0.656	0.785	0.848	0.755	0.787	0.766	9.19
51)	T	2-Hexanone		0.497	0.582	0.645	0.593	0.628	0.589	9.72
52)	T	Tetrachloroethene	0.189 0.221	0.240	0.265	0.270	0.253	0.263	0.243	11.98
53)	T	Toluene		0.675	0.849	0.919	0.849	0.875	0.834	11.16
54)	T	1,2-Dibromoethane	0.290	0.315	0.342	0.378	0.351	0.368	0.341	9.64
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.427	0.417	0.452	0.399	0.403	0.420	5.05
57)	T	Chlorobenzene		0.745	0.762	0.769	0.687	0.690	0.731	5.36
58)	T	Ethyl Benzene		1.037	1.267	1.339	1.216	1.216	1.215	9.17
59)	T	m/p-Xylene		0.998	1.131	1.166	1.044	1.043	1.076	6.45
60)	T	o-Xylene		0.945	1.089	1.130	1.004	1.009	1.035	7.10
61)	T	Styrene		0.390	0.547	0.599	0.586	0.596	0.544	16.22
62)		Isopropylbenzene		1.382	1.590	1.639	1.410	1.410	1.486	8.01
63)	T	1,1,2,2-Tetrac...	0.395 0.353	0.389	0.403	0.402	0.331	0.339	0.373	8.30
64)		n-propylbenzene		0.334	0.376	0.401	0.364	0.364	0.368	6.62
65)		tert-Butylbenzene		1.162	1.383	1.443	1.235	1.237	1.292	9.03
66)	T	Benzyl Chloride		0.082	0.080	0.082	0.085	0.100	0.086	9.14
67)		sec-Butylbenzene		1.730	1.983	2.084	1.742	1.725	1.853	9.11
68)	S	1-Bromo-4-Fluo...	0.821 0.823	0.836	0.816	0.791	0.833	0.836	0.822	1.93
69)		p-Isopropyltol...		1.316	1.530	1.682	1.411	1.406	1.469	9.61
70)		n-Butylbenzene		1.438	1.693	1.835	1.501	1.505	1.594	10.36
71)		2-Chlorotoluene		1.030	1.202	1.256	1.091	1.105	1.137	7.98
72)	T	4-Ethyltoluene		0.969	1.186	1.276	1.139	1.154	1.145	9.74
73)	T	1,3,5-Trimethy...		0.982	1.128	1.170	1.017	1.028	1.065	7.48
74)	T	1,2,4-Trimethy...		1.124	1.235	1.284	1.102	1.105	1.170	7.20
75)	T	1,3-Dichlorobe...		0.632	0.645	0.707	0.606	0.612	0.640	6.28
76)	T	1,4-Dichlorobe...		0.607	0.633	0.703	0.595	0.599	0.627	7.17
77)	T	1,2-Dichlorobe...		0.639	0.673	0.707	0.577	0.584	0.636	8.81
78)	T	Hexachloro-1,3...		0.464	0.484	0.482	0.369	0.385	0.437	12.69
79)	T	Naphthalene	0.290	0.522	0.705	0.855	0.767	0.804	0.657	32.51
80)	T	Naphthalene,2-...		0.163	0.125	0.171	0.227	0.248	0.187	26.74
81)	T	1,2,4-Trichlor...		0.352	0.419	0.456	0.403	0.427	0.411	9.37

(#) = Out of Range