

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\

Method File : VL031219AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 13 07:17:55 2019

Last Update : Wed Mar 13 07:17:55 2019

Response Via : Initial Calibration

Calibration Files

0.03=VL033277.D 0.1 =VL033276.D 0.5 =VL033279.D 1 =VL033274.D 2 =VL033273.D 10 =VL033272.D 15 =VL033278.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
-----ISTD-----									
1) I Bromochloromethane									
2) T Dichlorodifluo...			1.510	2.123	1.994	2.806	1.664	2.020	24.95
3) Chlorodifluoro...			1.279	1.259	1.241	1.758	1.094	1.326	19.01
4) Chloromethane			0.698	0.642	0.664	0.950	0.593	0.709	19.70
5) T Vinyl Chloride	0.816	0.632	0.629	0.617	0.647	0.924	0.583	0.693	18.30
6) T Bromomethane			0.395	0.399	0.396	0.571	0.355	0.423	19.95
7) Chloroethane			0.233	0.242	0.236	0.329	0.211	0.250	18.19
8) T Dichlorotetra...			1.652	1.641	1.614	2.234	1.397	1.707	18.29
9) T Propene			0.615	0.556	0.559	0.799	0.494	0.605	19.30
10) T Heptane			1.397	1.398	1.424	1.310	1.281	1.362	4.59
11) T Trichlorofluor...			1.733	2.832	1.841	2.021	1.568	1.999	24.71
12) T 1,1,2-Trichlor...			1.171	1.203	1.214	1.088	1.044	1.144	6.55
13) Ethanol			0.217	0.225	0.214	0.155	0.111	0.184	26.85
14) T Bromoethene			0.484	0.761	0.500	0.466	0.457	0.534	24.05
15) T Acetone			1.580	2.312	1.405	1.322	1.051	1.534	30.95
16) T 1,3-Butadiene			0.506	0.483	0.514	0.753	0.515	0.554	20.18
17) tert-Butyl alc...			0.208	0.212	0.217	0.197	0.195	0.206	4.57
18) T 1,1-Dichloroet...			0.510	0.500	0.563	0.488	0.472	0.506	6.81
19) T Isopropyl Alcohol			0.954	1.325	0.814	0.829	0.713	0.927	25.69
20) T Methylene Chlo...			0.564	0.555	0.590	0.430	0.411	0.510	16.27
21) T Allyl Chloride			0.763	0.733	0.810	0.766	0.741	0.763	3.93
22) T trans-1,2-Dich...			0.499	0.551	0.557	0.585	0.508	0.540	6.67
23) T Vinyl Acetate			1.970	1.908	2.055	1.874	1.803	1.922	4.97
24) T 1,1-Dichloroet...			1.413	1.403	1.422	1.518	1.212	1.394	8.00
25) T Ethyl Acetate			2.482	2.524	2.496	2.179	2.137	2.364	7.99
26) T Hexane			1.181	1.217	1.208	0.984	0.958	1.110	11.50
27) T Carbon Disulfide			1.048	1.139	1.246	1.232	1.220	1.177	7.08
28) T Methyl tert-Bu...			1.627	1.582	1.643	1.616	1.405	1.575	6.20
29) T Chloroform			1.785	1.780	1.722	1.590	1.563	1.688	6.23
30) T Cyclohexane			0.924	0.870	0.890	0.816	0.801	0.860	5.98
31) T cis-1,2-Dichlo...			1.087	1.088	1.105	1.019	1.020	1.064	3.87
32) T 1,1,1-Trichlor...	1.864	1.558	1.647	1.649	1.651	1.600	1.545	1.645	6.45
-----ISTD-----									
33) I 1,4-Difluorobenzene									
34) T 2-Butanone			0.668	0.703	0.684	0.623	0.629	0.661	5.28
35) T Carbon Tetrach...	0.889	0.664	0.672	0.721	0.739	0.702	0.728	0.731	10.28
36) T Benzene			0.940	0.961	0.955	0.869	0.886	0.922	4.53
37) T 1,2-Dichloroet...			0.545	0.585	0.567	0.524	0.545	0.553	4.21
38) T Trichloroethene	0.440	0.344	0.355	0.360	0.364	0.327	0.326	0.359	10.71
39) T 1,2-Dichloropr...			0.350	0.356	0.358	0.335	0.337	0.347	3.13

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40)	T	1,4-Dioxane	0.129	0.150	0.130	0.114	0.131	0.131	9.70	
41)	T	Tetrahydrofuran	0.364	0.382	0.368	0.357	0.363	0.367	2.57	
42)	T	Bromodichlorom...	0.741	0.768	0.780	0.750	0.767	0.761	2.05	
43)		Methyl Methacr...	0.354	0.358	0.359	0.356	0.370	0.359	1.79	
44)	T	2,2,4-Trimethy...	1.624	1.658	1.643	1.444	1.465	1.567	6.60	
45)	T	t-1,3-Dichloro...	0.372	0.401	0.457	0.470	0.509	0.442	12.40	
46)	T	cis-1,3-Dichlo...	0.459	0.508	0.523	0.542	0.559	0.518	7.36	
47)	T	1,1,2-Trichlor...	0.368	0.390	0.376	0.352	0.367	0.371	3.75	
48)	T	Dibromochlorom...	0.556	0.601	0.621	0.620	0.640	0.608	5.29	
49)	T	Bromoform	0.431	0.464	0.508	0.529	0.531	0.493	8.86	
50)	T	4-Methyl-2-Pen...	0.933	0.985	0.983	0.904	0.913	0.944	4.05	
51)	T	2-Hexanone	0.683	0.724	0.763	0.706	0.727	0.720	4.09	
52)	T	Tetrachloroethene	0.367	0.319	0.353	0.345	0.339	0.320	0.338	5.43
53)	T	Toluene	1.073	1.069	1.110	1.017	1.046	1.063	3.24	
54)	T	1,2-Dibromoethane	0.560	0.574	0.591	0.554	0.570	0.570	2.51	

55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.442	0.448	0.441	0.395	0.399	0.425	6.07
57)	T	Chlorobenzene			0.818	0.810	0.782	0.683	0.678	0.754	9.09
58)	T	Ethyl Benzene			1.380	1.434	1.442	1.315	1.300	1.374	4.78
59)	T	m/p-Xylene			1.178	1.202	1.211	1.088	1.066	1.149	5.85
60)	T	o-Xylene			1.149	1.162	1.161	1.028	1.024	1.105	6.54
61)	T	Styrene			0.774	0.797	0.821	0.767	0.776	0.787	2.80
62)		Isopropylbenzene			1.585	1.644	1.621	1.428	1.420	1.540	6.98
63)	T	1,1,2,2-Tetrac...	0.736	0.741	0.806	0.787	0.779	0.671	0.665	0.741	7.51
64)		n-propylbenzene			0.394	0.391	0.386	0.363	0.360	0.379	4.21
65)		tert-Butylbenzene			1.287	1.384	1.396	1.219	1.212	1.299	6.75
66)	T	Benzyl Chloride			0.398	0.384	0.484	0.601	0.649	0.503	23.64
67)		sec-Butylbenzene			1.847	1.952	1.971	1.738	1.739	1.849	6.04
68)	S	1-Bromo-4-Fluo...	0.789	0.802	0.773	0.776	0.758	0.750	0.758	0.772	2.41
69)		p-Isopropyltol...			1.454	1.540	1.580	1.452	1.445	1.494	4.15
70)		n-Butylbenzene			1.582	1.614	1.695	1.570	1.561	1.604	3.39
71)		2-Chlorotoluene			1.211	1.199	1.212	1.086	1.094	1.160	5.55
72)	T	4-Ethyltoluene			1.148	1.228	1.252	1.165	1.173	1.193	3.73
73)	T	1,3,5-Trimethy...			1.128	1.129	1.157	1.102	1.105	1.125	1.97
74)	T	1,2,4-Trimethy...			1.107	1.178	1.192	1.130	1.119	1.145	3.30
75)	T	1,3-Dichlorobe...			0.701	0.703	0.730	0.649	0.649	0.686	5.29
76)	T	1,4-Dichlorobe...			0.706	0.667	0.703	0.657	0.661	0.679	3.49
77)	T	1,2-Dichlorobe...			0.718	0.699	0.712	0.641	0.646	0.683	5.42
78)	T	Hexachloro-1,3...			0.803	0.572	0.522	0.468	0.481	0.569	23.98
79)	T	Naphthalene			1.051	0.850	0.927	1.677	1.695	1.240	33.36
80)	T	Naphthalene,2-...			0.351	0.024	0.045	0.651	0.628	0.340	89.11
81)	T	1,2,4-Trichlor...			0.638	0.525	0.542	0.778	0.781	0.653	18.87

 (#) = Out of Range