

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

Method File : VL011623AIR.M

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

Last Update : Mon Jan 16 14:40:47 2023

Response Via : Initial Calibration

Calibration Files

0.03=VL040096.D 0.1 =VL040095.D 0.5 =VL040094.D 1 =VL040093.D 2 =VL040092.D 10 =VL040091.D 15 =VL040097.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			2.007	2.020	1.499	1.550	1.690	1.753	14.13
3) Chlorodifluoro...			1.279	1.292	1.273	1.118	1.036	1.199	9.65
4) Chloromethane			0.804	0.770	0.777	0.710	0.645	0.741	8.57
5) T Vinyl Chloride	0.658	0.602	0.625	0.669	0.657	0.618	0.570	0.628	5.66
6) T Bromomethane			0.243	0.248	0.235	0.219	0.202	0.229	8.31
7) Chloroethane			0.243	0.269	0.253	0.224	0.212	0.240	9.47
8) T Dichlorotetra...			1.798	1.745	1.662	1.560	1.418	1.637	9.26
9) T Propene			0.533	0.533	0.522	0.467	0.437	0.498	8.77
10) T Heptane			1.012	1.199	1.197	1.204	1.131	1.149	7.12
11) T Trichlorofluor...			1.823	1.869	1.854	1.708	1.496	1.750	8.89
12) T 1,1,2-Trichlor...			1.374	1.419	1.389	1.266	1.129	1.316	9.06
13) Ethanol			0.051	0.058	0.055	0.036	0.030	0.046#	26.59
14) T Bromoethene			0.507	0.503	0.497	0.488	0.446	0.488	5.06
15) T Acetone			1.290	1.309	1.287	1.105	1.005	1.199	11.39
16) T 1,3-Butadiene			0.554	0.597	0.580	0.544	0.521	0.559	5.38
17) tert-Butyl alc...			1.197	1.238	1.060	1.158	0.930	1.117	11.06
18) T 1,1-Dichloroet...			0.609	0.595	0.593	0.555	0.505	0.572	7.38
19) T Isopropyl Alcohol			0.653	0.635	0.598	0.567	0.480	0.587	11.65
20) T Methylene Chlo...			0.616	0.576	0.556	0.471	0.428	0.529	14.64
21) T Allyl Chloride			0.718	0.806	0.835	0.776	0.715	0.770	6.89
22) T trans-1,2-Dich...			0.571	0.636	0.607	0.575	0.531	0.584	6.82
23) T Vinyl Acetate			0.385	0.416	0.390	0.390	0.364	0.389	4.73
24) T 1,1-Dichloroet...			1.221	1.261	1.205	1.160	1.040	1.177	7.21
25) T Ethyl Acetate			2.065	2.151	2.242	2.079	2.027	2.113	4.04
26) T Hexane			0.972	0.955	0.939	0.882	0.875	0.925	4.74
27) T Carbon Disulfide			0.993	1.139	1.234	1.363	1.261	1.198	11.67
28) T Methyl tert-Bu...			1.034	1.109	1.084	1.025	0.949	1.040	5.92
29) T Chloroform			1.520	1.476	1.501	1.408	1.487	1.478	2.90
30) T Cyclohexane			0.617	0.815	0.762	0.758	0.723	0.735	10.06
31) T cis-1,2-Dichlo...			0.901	0.928	0.919	0.880	0.848	0.895	3.59
32) T 1,1,1-Trichlor...	1.329	1.286	1.556	1.641	1.639	1.589	1.478	1.503	9.64

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.448	0.498	0.477	0.476	0.467	0.473	3.84
35) T Carbon Tetrach...	0.485	0.479	0.532	0.576	0.623	0.639	0.624	0.565	11.97
36) T Benzene			0.717	0.731	0.770	0.739	0.744	0.740	2.65
37) T 1,2-Dichloroet...			0.475	0.473	0.490	0.470	0.470	0.476	1.77
38) T Trichloroethene	0.433	0.358	0.413	0.414	0.437	0.439	0.446	0.420	7.18
39) T 1,2-Dichloropr...			0.283	0.294	0.293	0.288	0.289	0.289	1.56

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40)	T	1,4-Dioxane			0.117	0.113	0.114	0.118	0.112	0.115	2.28
41)	T	Tetrahydrofuran			0.259	0.271	0.272	0.277	0.285	0.273	3.48
42)	T	Bromodichlorom...			0.581	0.606	0.661	0.690	0.673	0.642	7.20
43)		Methyl Methacr...			0.215	0.259	0.276	0.303	0.305	0.272	13.62
44)	T	2,2,4-Trimethy...			1.141	1.243	1.297	1.247	1.225	1.231	4.60
45)	T	t-1,3-Dichloro...			0.180	0.191	0.228	0.296	0.316	0.242	25.24
46)	T	cis-1,3-Dichlo...			0.241	0.275	0.335	0.395	0.408	0.331	22.00
47)	T	1,1,2-Trichlor...			0.282	0.298	0.313	0.313	0.318	0.305	4.88
48)	T	Dibromochlorom...			0.389	0.450	0.491	0.558	0.560	0.490	14.89
49)	T	Bromoform			0.279	0.321	0.375	0.453	0.459	0.377	21.00
50)	T	4-Methyl-2-Pen...			0.658	0.716	0.770	0.790	0.785	0.744	7.56
51)	T	2-Hexanone			0.452	0.526	0.583	0.631	0.626	0.564	13.34
52)	T	Tetrachloroethene	0.245	0.209	0.233	0.241	0.250	0.255	0.261	0.242	7.18
53)	T	Toluene			0.661	0.759	0.811	0.854	0.862	0.789	10.47
54)	T	1,2-Dibromoethane	0.239		0.299	0.315	0.329	0.362	0.370	0.319	14.96
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.368	0.389	0.399	0.409	0.382	0.389	4.05
57)	T	Chlorobenzene			0.692	0.684	0.697	0.681	0.654	0.682	2.44
58)	T	Ethyl Benzene			0.965	1.101	1.162	1.211	1.140	1.116	8.34
59)	T	m/p-Xylene			0.892	1.020	1.060	1.060	0.986	1.003	6.93
60)	T	o-Xylene			0.834	0.939	1.010	1.020	0.958	0.952	7.82
61)	T	Styrene			0.382	0.437	0.514	0.583	0.565	0.496	17.21
62)		Isopropylbenzene			1.272	1.400	1.438	1.424	1.316	1.370	5.28
63)	T	1,1,2,2-Tetrac...	0.387	0.297	0.348	0.357	0.356	0.346	0.330	0.346	7.96
64)		n-propylbenzene			0.300	0.339	0.353	0.363	0.348	0.341	7.12
65)		tert-Butylbenzene			1.019	1.185	1.251	1.247	1.162	1.173	8.03
66)	T	BenzyI Chloride			0.066	0.072	0.068	0.099	0.095	0.080	19.53
67)		sec-Butylbenzene			1.456	1.688	1.798	1.759	1.613	1.663	8.14
68)	S	1-Bromo-4-Fluo...	0.835	0.833	0.838	0.827	0.815	0.857	0.812	0.831	1.82
69)		p-Isopropyltol...			1.078	1.298	1.423	1.421	1.313	1.307	10.76
70)		n-Butylbenzene			1.164	1.391	1.568	1.523	1.399	1.409	11.15
71)		2-Chlorotoluene			0.939	1.064	1.109	1.112	1.044	1.054	6.67
72)	T	4-Ethyltoluene			0.922	1.020	1.097	1.163	1.082	1.057	8.59
73)	T	1,3,5-Trimethy...			0.818	0.939	1.011	1.028	0.962	0.952	8.73
74)	T	1,2,4-Trimethy...			0.919	1.049	1.147	1.119	1.038	1.054	8.40
75)	T	1,3-Dichlorobe...			0.546	0.564	0.615	0.616	0.585	0.585	5.29
76)	T	1,4-Dichlorobe...			0.530	0.592	0.584	0.603	0.569	0.576	4.91
77)	T	1,2-Dichlorobe...			0.518	0.564	0.586	0.584	0.549	0.560	4.99
78)	T	Hexachloro-1,3...			0.422	0.441	0.442	0.377	0.369	0.410	8.56
79)	T	Naphthalene	0.318		0.442	0.591	0.748	0.761	0.763	0.604	31.35
80)	T	Naphthalene,2- ...			0.163	0.144	0.240	0.229	0.240	0.203	22.71
81)	T	1,2,4-Trichlor...			0.302	0.355	0.406	0.399	0.400	0.372	11.92

(#) = Out of Range