

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

Method File : VL060523AIR.M

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

Last Update : Tue Jun 06 06:22:12 2023

Response Via : Initial Calibration

Calibration Files

0.03=VL040460.D 0.1 =VL040459.D 0.5 =VL040458.D 1 =VL040457.D 2 =VL040456.D 10 =VL040455.D 15 =VL040461.D

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...			2.260	2.393	2.271	1.992	1.966	2.176	8.63
3)	Chlorodifluoro...			1.727	1.768	1.753	1.500	1.441	1.638	9.44
4)	Chloromethane			0.685	0.656	0.678	0.588	0.563	0.634	8.72
5) T	Vinyl Chloride	0.548	0.572	0.671	0.674	0.709	0.637	0.618	0.633	9.13
6) T	Bromomethane			0.337	0.343	0.333	0.315	0.310	0.328	4.41
7)	Chloroethane			0.262	0.239	0.234	0.222	0.225	0.236	6.79
8) T	Dichlorotetra...			1.753	1.797	1.885	1.621	1.538	1.719	8.08
9) T	Propene			0.562	0.499	0.550	0.459	0.456	0.505	9.82
10) T	Heptane			1.009	1.097	1.233	1.195	1.183	1.143	7.89
11) T	Trichlorofluor...			1.877	1.876	1.873	1.663	1.572	1.772	8.18
12) T	1,1,2-Trichlor...			1.237	1.280	1.301	1.208	1.165	1.238	4.40
13)	Ethanol			0.096	0.113	0.111	0.102	0.101	0.105	6.99
14) T	Bromoethene			0.538	0.508	0.537	0.507	0.499	0.518	3.60
15) T	Acetone			1.307	1.342	1.299	1.054	1.029	1.206	12.57
16) T	1,3-Butadiene			0.618	0.548	0.629	0.571	0.568	0.587	5.96
17)	tert-Butyl alc...			1.097	1.072	0.989	0.942	0.857	0.992	9.86
18) T	1,1-Dichloroet...			0.522	0.556	0.602	0.545	0.533	0.552	5.59
19) T	Isopropyl Alcohol			0.616	0.615	0.593	0.566	0.516	0.581	7.19
20) T	Methylene Chlo...			0.583	0.581	0.526	0.443	0.440	0.515	13.73
21) T	Allyl Chloride			0.683	0.683	0.713	0.669	0.658	0.681	3.02
22) T	trans-1,2-Dich...			0.550	0.560	0.594	0.574	0.551	0.566	3.27
23) T	Vinyl Acetate			1.087	1.138	1.287	1.202	1.176	1.178	6.36
24) T	1,1-Dichloroet...			1.204	1.267	1.204	1.130	1.103	1.182	5.53
25) T	Ethyl Acetate			2.158	2.267	2.394	2.087	2.022	2.186	6.75
26) T	Hexane			1.029	1.138	1.127	0.947	0.933	1.035	9.31
27) T	Carbon Disulfide			1.190	1.195	1.346	1.384	1.356	1.294	7.27
28) T	Methyl tert-Bu...			0.789	0.762	0.871	0.796	0.765	0.797	5.56
29) T	Chloroform			1.822	1.838	1.850	1.681	1.624	1.763	5.87
30) T	Cyclohexane			0.903	0.884	0.812	0.794	0.778	0.834	6.67
31) T	cis-1,2-Dichlo...			0.932	1.010	1.042	0.996	0.972	0.990	4.17
32) T	1,1,1-Trichlor...	1.682	1.591	1.817	1.848	1.872	1.714	1.657	1.740	6.12
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone			0.483	0.482	0.511	0.461	0.474	0.482	3.82
35) T	Carbon Tetrach...	0.642	0.600	0.695	0.693	0.741	0.703	0.695	0.681	6.74
36) T	Benzene			0.757	0.794	0.856	0.793	0.778	0.795	4.66
37) T	1,2-Dichloroet...			0.505	0.506	0.555	0.512	0.513	0.518	3.99
38) T	Trichloroethene	0.249	0.261	0.294	0.319	0.332	0.325	0.330	0.301	11.40
39) T	1,2-Dichloropr...			0.323	0.291	0.315	0.301	0.303	0.307	3.98

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40)	T	1,4-Dioxane			0.088	0.089	0.092	0.084	0.081	0.087	4.97
41)	T	Tetrahydrofuran			0.245	0.246	0.291	0.267	0.269	0.264	7.28
42)	T	Bromodichlorom...			0.663	0.725	0.734	0.729	0.717	0.714	4.03
43)		Methyl Methacr...			0.238	0.255	0.301	0.316	0.319	0.286	12.96
44)	T	2,2,4-Trimethy...			1.162	1.346	1.404	1.304	1.284	1.300	6.91
45)	T	t-1,3-Dichloro...			0.160	0.166	0.214	0.250	0.266	0.211	22.58
46)	T	cis-1,3-Dichlo...			0.204	0.233	0.258	0.291	0.301	0.257	15.72
47)	T	1,1,2-Trichlor...			0.337	0.329	0.348	0.333	0.338	0.337	2.13
48)	T	Dibromochlorom...			0.457	0.507	0.563	0.583	0.584	0.539	10.32
49)	T	Bromoform			0.335	0.374	0.420	0.454	0.456	0.408	12.89
50)	T	4-Methyl-2-Pen...			0.564	0.602	0.686	0.687	0.690	0.646	9.11
51)	T	2-Hexanone			0.360	0.423	0.471	0.489	0.499	0.448	12.85
52)	T	Tetrachloroethene	0.191	0.218	0.240	0.261	0.279	0.275	0.283	0.250	14.03
53)	T	Toluene			0.670	0.801	0.889	0.911	0.918	0.838	12.51
54)	T	1,2-Dibromoethane	0.330		0.405	0.443	0.480	0.493	0.499	0.442	14.74
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.488	0.491	0.480	0.447	0.444	0.470	4.82
57)	T	Chlorobenzene			0.791	0.764	0.772	0.729	0.723	0.756	3.84
58)	T	Ethyl Benzene			0.994	1.205	1.291	1.289	1.279	1.212	10.47
59)	T	m/p-Xylene			0.982	1.128	1.203	1.139	1.117	1.114	7.26
60)	T	o-Xylene			0.884	1.066	1.158	1.092	1.080	1.056	9.70
61)	T	Styrene			0.299	0.395	0.483	0.544	0.552	0.455	23.66
62)		Isopropylbenzene			1.458	1.579	1.683	1.576	1.553	1.570	5.11
63)	T	1,1,2,2-Tetrac...	0.703	0.603	0.683	0.717	0.737	0.675	0.669	0.684	6.28
64)		n-propylbenzene			0.363	0.402	0.407	0.411	0.411	0.399	5.15
65)		tert-Butylbenzene			1.146	1.384	1.489	1.365	1.351	1.347	9.27
66)	T	Benzyl Chloride			0.095	0.092	0.104	0.109	0.118	0.104	10.08
67)		sec-Butylbenzene			1.756	1.985	2.172	1.978	1.930	1.964	7.56
68)	S	1-Bromo-4-Fluo...	0.822	0.826	0.839	0.823	0.799	0.835	0.833	0.825	1.58
69)		p-Isopropyltol...			1.305	1.563	1.731	1.616	1.589	1.561	10.05
70)		n-Butylbenzene			1.478	1.754	1.940	1.795	1.745	1.742	9.60
71)		2-Chlorotoluene			0.992	1.127	1.270	1.224	1.216	1.166	9.43
72)	T	4-Ethyltoluene			0.993	1.144	1.258	1.283	1.271	1.190	10.37
73)	T	1,3,5-Trimethy...			0.854	1.049	1.143	1.110	1.102	1.051	11.00
74)	T	1,2,4-Trimethy...			1.115	1.260	1.337	1.247	1.226	1.237	6.48
75)	T	1,3-Dichlorobe...			0.664	0.683	0.735	0.692	0.694	0.694	3.72
76)	T	1,4-Dichlorobe...			0.648	0.638	0.715	0.683	0.690	0.675	4.69
77)	T	1,2-Dichlorobe...			0.652	0.664	0.666	0.649	0.646	0.655	1.39
78)	T	Hexachloro-1,3...			0.542	0.526	0.520	0.461	0.478	0.506	6.81
79)	T	Naphthalene	0.310		0.532	0.687	0.878	0.925	0.943	0.712	35.55
80)	T	Naphthalene,2-...			0.108	0.134	0.215	0.294	0.318	0.214	43.68
81)	T	1,2,4-Trichlor...			0.401	0.461	0.283	0.523	0.539	0.441	23.58

(#) = Out of Range