

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

Method File : VL030619AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 06 08:43:44 2019

Last Update : Wed Mar 06 08:43:44 2019

Response Via : Initial Calibration

Calibration Files

0.03=VL033245.D 0.1 =VL033244.D 0.5 =VL033243.D 1 =VL033242.D 2 =VL033241.D 10 =VL033240.D 15 =VL033246.D

Compound		0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...			1.884	1.519	1.415	1.096	1.151	1.413	22.44
3)	Chlorodifluoro...			1.120	1.076	1.295	0.995	1.236	1.144	10.57
4)	Chloromethane			0.578	0.561	0.642	0.514	0.650	0.589	9.71
5) T	Vinyl Chloride	0.998	0.754	0.546	0.548	0.651	0.505	0.622	0.661	25.79
6) T	Bromomethane			0.416	0.401	0.385	0.309	0.378	0.378	10.86
7)	Chloroethane			0.238	0.233	0.229	0.184	0.220	0.221	9.86
8) T	Dichlorotetra...			1.434	1.391	1.556	1.217	1.383	1.396	8.72
9) T	Propene			0.475	0.495	0.570	0.447	0.562	0.510	10.59
10) T	Heptane			1.245	1.385	1.646	1.333	1.328	1.388	11.03
11) T	Trichlorofluor...			1.809	1.794	1.713	1.329	1.648	1.659	11.80
12) T	1,1,2-Trichlor...			1.118	1.159	1.156	0.895	1.049	1.075	10.22
13)	Ethanol			0.216	0.174	0.187	0.100	0.085	0.152	37.30
14) T	Bromoethene			0.491	0.455	0.471	0.386	0.462	0.453	8.78
15) T	Acetone			1.623	1.464	1.366	0.893	1.089	1.287	22.83
16) T	1,3-Butadiene			0.591	0.493	0.496	0.453	0.536	0.514	10.12
17)	tert-Butyl alc...			0.227	0.242	0.203	0.196	0.181	0.210	11.72
18) T	1,1-Dichloroet...			0.503	0.497	0.499	0.396	0.500	0.479	9.70
19) T	Isopropyl Alcohol			0.952	0.884	0.678	0.700	0.612	0.765	18.97
20) T	Methylene Chlo...			0.586	0.554	0.526	0.351	0.421	0.488	20.21
21) T	Allyl Chloride			0.729	0.734	0.736	0.642	0.750	0.718	6.00
22) T	trans-1,2-Dich...			0.514	0.489	0.514	0.451	0.475	0.489	5.49
23) T	Vinyl Acetate			1.867	1.967	1.964	1.838	1.856	1.898	3.28
24) T	1,1-Dichloroet...			1.391	1.410	1.437	1.282	1.247	1.353	6.20
25) T	Ethyl Acetate			2.348	2.512	2.551	2.201	2.184	2.359	7.22
26) T	Hexane			1.151	1.202	1.214	0.972	0.975	1.103	10.91
27) T	Carbon Disulfide			0.947	1.041	1.132	1.021	1.175	1.063	8.56
28) T	Methyl tert-Bu...			1.518	1.524	1.628	1.497	1.437	1.521	4.54
29) T	Chloroform			1.766	1.794	1.813	1.593	1.611	1.715	6.11
30) T	Cyclohexane			0.819	0.807	0.901	0.804	0.799	0.826	5.15
31) T	cis-1,2-Dichlo...			1.038	1.069	1.137	1.039	1.042	1.065	3.95
32) T	1,1,1-Trichlor...	1.925	1.650	1.572	1.599	1.706	1.588	1.608	1.664	7.43
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone			0.717	0.712	0.726	0.639	0.670	0.693	5.34
35) T	Carbon Tetrach...	0.835	0.789	0.710	0.755	0.783	0.703	0.718	0.756	6.48
36) T	Benzene			0.932	0.974	1.004	0.885	0.897	0.939	5.35
37) T	1,2-Dichloroet...			0.599	0.597	0.620	0.545	0.560	0.584	5.25
38) T	Trichloroethene	0.308	0.340	0.353	0.366	0.448	0.333	0.333	0.354	12.73
39) T	1,2-Dichloropr...			0.343	0.360	0.441	0.343	0.345	0.366	11.52

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40)	T	1,4-Dioxane	0.158	0.148	0.140	0.128	0.105	0.136	15.02		
41)	T	Tetrahydrofuran	0.345	0.399	0.404	0.371	0.384	0.381	6.29		
42)	T	Bromodichlorom...	0.772	0.821	0.977	0.769	0.792	0.826	10.52		
43)		Methyl Methacr...	0.332	0.353	0.465	0.368	0.380	0.380	13.37		
44)	T	2,2,4-Trimethy...	1.587	1.684	2.029	1.497	1.502	1.660	13.24		
45)	T	t-1,3-Dichloro...	0.337	0.405	0.541	0.495	0.521	0.459	18.74		
46)	T	cis-1,3-Dichlo...	0.457	0.498	0.645	0.560	0.580	0.548	13.38		
47)	T	1,1,2-Trichlor...	0.373	0.391	0.475	0.365	0.368	0.394	11.74		
48)	T	Dibromochlorom...	0.562	0.596	0.756	0.630	0.650	0.639	11.55		
49)	T	Bromoform	0.421	0.470	0.605	0.522	0.534	0.510	13.58		
50)	T	4-Methyl-2-Pen...	0.964	1.012	1.240	0.949	0.959	1.025	11.98		
51)	T	2-Hexanone	0.663	0.745	0.924	0.738	0.763	0.767	12.54		
52)	T	Tetrachloroethene	0.359	0.358	0.323	0.353	0.414	0.321	0.319	0.350	9.60
53)	T	Toluene	0.959	1.043	1.312	1.047	1.065	1.085	12.27		
54)	T	1,2-Dibromoethane	0.559	0.592	0.699	0.564	0.581	0.599	9.59		

55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.443	0.465	0.463	0.400	0.400	0.434	7.47
57)	T	Chlorobenzene			0.841	0.853	0.830	0.687	0.682	0.779	11.05
58)	T	Ethyl Benzene			1.312	1.457	1.522	1.319	1.306	1.383	7.24
59)	T	m/p-Xylene			1.193	1.272	1.273	1.074	1.081	1.179	8.31
60)	T	o-Xylene			1.123	1.212	1.218	1.034	1.032	1.124	8.10
61)	T	Styrene			0.743	0.793	0.851	0.776	0.790	0.790	4.97
62)		Isopropylbenzene			1.616	1.649	1.709	1.424	1.436	1.567	8.26
63)	T	1,1,2,2-Tetrac...	1.004	0.802	0.811	0.828	0.819	0.660	0.673	0.800	14.30
64)		n-propylbenzene			0.388	0.419	0.416	0.357	0.363	0.388	7.43
65)		tert-Butylbenzene			1.344	1.452	1.492	1.209	1.191	1.338	10.24
66)	T	Benzyl Chloride			0.375	0.425	0.531	0.612	0.644	0.517	22.48
67)		sec-Butylbenzene			1.946	2.026	2.109	1.730	1.725	1.907	9.11
68)	S	1-Bromo-4-Fluo...	0.779	0.783	0.777	0.756	0.745	0.734	0.738	0.759	2.77
69)		p-Isopropyltol...			1.518	1.632	1.697	1.426	1.438	1.542	7.74
70)		n-Butylbenzene			1.631	1.830	1.869	1.555	1.560	1.689	8.89
71)		2-Chlorotoluene			1.187	1.298	1.318	1.091	1.095	1.198	9.01
72)	T	4-Ethyltoluene			1.161	1.282	1.359	1.165	1.173	1.228	7.22
73)	T	1,3,5-Trimethy...			1.127	1.257	1.304	1.099	1.108	1.179	8.02
74)	T	1,2,4-Trimethy...			1.259	1.347	1.371	1.115	1.104	1.239	10.14
75)	T	1,3-Dichlorobe...			0.767	0.779	0.799	0.639	0.639	0.725	10.90
76)	T	1,4-Dichlorobe...			0.734	0.760	0.795	0.645	0.656	0.718	9.10
77)	T	1,2-Dichlorobe...			0.724	0.746	0.767	0.633	0.647	0.704	8.53
78)	T	Hexachloro-1,3...			0.554	0.543	0.525	0.424	0.444	0.498	12.01
79)	T	Naphthalene			1.202	1.423	1.538	1.674	1.740	1.515	14.11
80)	T	Naphthalene,2-...			0.164	0.251	0.350	0.731	0.768	0.453	61.66
81)	T	1,2,4-Trichlor...			0.691	0.757	0.790	0.778	0.791	0.761	5.46

 (#) = Out of Range