

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N030521W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Mar 05 15:32:08 2021
 Response Via : Initial Calibration

Calibration Files

5 =VN066131.D 20 =VN066132.D 50 =VN066133.D 100 =VN066134.D 150 =VN066135.D

	Compound	5	20	50	100	150	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoro...	1.656	1.281	1.426	1.489	1.453	1.461	9.23
3) M	Chloromethane	2.092	1.823	1.988	2.051	1.911	1.973	5.48
4) M	Vinyl Chloride	1.965	1.772	2.093	2.165	2.219	2.043	8.77
5) M	Bromomethane	1.396	1.300	1.433	1.507	1.533	1.433	6.48
6) M	Chloroethane	1.116	1.073	1.247	1.283	1.314	1.207	8.78
7) M	Trichlorofluorom...	3.033	2.771	3.132	3.388	3.289	3.123	7.68
8) T	Diethyl Ether	0.989	0.951	1.106	1.140	1.128	1.063	8.16
9)	1,1,2-Trichlorot...	1.254	1.188	1.331	1.419	1.357	1.310	6.89
10) M	1,1-Dichloroethene	1.340	1.354	1.540	1.620	1.593	1.489	8.95
11)	Methyl Iodide	1.926	2.017	2.429	2.538	2.619	2.306	13.62
12)	Methyl Acetate	1.421	1.495	1.681	1.692	1.724	1.603	8.45
13) M	Acrolein	0.298	0.255	0.280	0.286	0.278	0.279	5.60
14) M	Acrylonitrile	0.684	0.703	0.809	0.824	0.858	0.776	9.99
15) M	Acetone	0.251	0.222	0.229	0.221	0.217	0.228	5.93
16) M	Carbon Disulfide	4.094	3.944	4.446	4.671	4.716	4.374	7.87
17)	Allyl chloride	2.498	2.441	2.787	2.859	2.879	2.693	7.72
18) M	Methylene Chloride	1.683	1.671	1.928	1.944	1.983	1.842	8.25
19) M	trans-1,2-Dichlo...	1.560	1.554	1.781	1.821	1.831	1.709	8.22
20) T	Diisopropyl ether	4.587	4.778	5.461	5.631	5.684	5.228	9.74
21) M	1,1-Dichloroethane	3.057	2.987	3.399	3.516	3.481	3.288	7.53
22) M	cis-1,2-Dichloro...	1.921	1.861	2.134	2.209	2.214	2.068	8.02
23) M	tert-Butyl Alcohol	0.323	0.322	0.365	0.350	0.371	0.346	6.67
24) M	Methyl tert-Buty...	5.529	5.584	6.242	6.457	6.484	6.059	7.73
25) M	Chloroform	3.228	3.197	3.731	3.810	3.812	3.556	8.86
26)	Cyclohexane	2.308	2.231	2.551	2.732	2.715	2.508	9.18
27) s	1,2-Dichloroetha...	2.649	2.595	2.633	2.588	2.558	2.605	1.41
28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.396	0.402	0.444	0.470	0.491	0.440	9.39
30) M	2-Butanone	0.172	0.172	0.182	0.179	0.191	0.179	4.47
31)	2,2-Dichloropropane	0.564	0.540	0.588	0.595	0.601	0.577	4.38
32) M	1,1,1-Trichloroe...	0.518	0.531	0.588	0.607	0.611	0.571	7.61
33) M	Carbon Tetrachlo...	0.432	0.451	0.499	0.528	0.536	0.489	9.42
34) M	Benzene	1.222	1.221	1.363	1.397	1.467	1.334	8.19
35)	Methacrylonitrile	0.197	0.176	0.198	0.214	0.220	0.201	8.54
36) M	1,2-Dichloroethane	0.510	0.504	0.553	0.571	0.589	0.546	6.88
37) M	Trichloroethene	0.335	0.327	0.370	0.379	0.398	0.362	8.27
38)	Methylcyclohexane	0.423	0.427	0.476	0.510	0.526	0.472	9.95
39) M	1,2-Dichloropropane	0.321	0.308	0.343	0.353	0.371	0.339	7.42
40)	Dibromomethane	0.209	0.219	0.236	0.246	0.255	0.233	8.19
41) M	Bromodichloromet...	0.459	0.473	0.541	0.552	0.582	0.522	10.12
42) M	Vinyl Acetate	0.720	0.739	0.827	0.832	0.865	0.796	7.97
43)	Ethyl Acetate	0.360	0.329	0.391	0.390	0.407	0.375	8.28
44)	Isopropyl Acetate	0.614	0.632	0.694	0.711	0.755	0.681	8.48
45) T	1,4-Dioxane	0.005	0.006	0.007	0.006	0.007	0.006#	13.02
46)	Methyl methacrylate	0.269	0.297	0.331	0.338	0.366	0.320	11.76
47)	n-amyl Acetate	0.273	0.389	0.526	0.597	0.661	0.489	32.19
48) M	t-1,3-Dichloropr...	0.526	0.538	0.622	0.637	0.686	0.602	11.31
49) T	cis-1,3-Dichloro...	0.558	0.567	0.633	0.658	0.695	0.622	9.48
50) M	1,1,2-Trichloroe...	0.282	0.294	0.339	0.344	0.369	0.326	11.10
51)	Ethyl methacrylate	0.406	0.427	0.511	0.532	0.582	0.492	14.99
52)	1,3-Dichloropropane	0.501	0.517	0.581	0.603	0.645	0.569	10.52
53) M	Dibromochloromet...	0.344	0.352	0.410	0.422	0.460	0.398	12.27
54) M	1,2-Dibromoethane	0.290	0.312	0.351	0.365	0.401	0.344	12.70
55) M	2-Chloroethyl vi...	0.133	0.166	0.182	0.191	0.194	0.173	14.43
56) M	Bromoform	0.200	0.232	0.279	0.285	0.320	0.263	18.00

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		-----ISTD-----							
57) I	Chlorobenzene-d5								
58) M	4-Methyl-2-Penta...	0.362	0.378	0.408	0.414	0.425	0.397		6.67
59) M	2-Hexanone	0.231	0.250	0.289	0.297	0.315	0.276		12.48
60) S	4-Bromofluoroben...	0.490	0.505	0.534	0.526	0.543	0.520		4.21
61) M	Tetrachloroethene	0.382	0.373	0.397	0.398	0.381	0.386		2.78
62) M	Toluene	1.419	1.421	1.597	1.648	1.664	1.550		7.81
63) S	Toluene-d8	1.384	1.379	1.344	1.358	1.296	1.352		2.62
64) M	Chlorobenzene	0.912	0.903	1.034	1.058	1.121	1.006		9.45
65)	1,1,1,2-Tetrachl...	0.350	0.352	0.401	0.411	0.421	0.387		8.70
66) M	Ethyl Benzene	1.592	1.620	1.825	1.895	1.957	1.778		9.22
67) M	m/p-Xylenes	0.604	0.626	0.715	0.734	0.769	0.689		10.33
68) M	o-Xylene	0.600	0.613	0.702	0.718	0.750	0.677		9.83
69) M	Styrene	0.919	0.974	1.153	1.200	1.295	1.108		14.18
70)	Isopropylbenzene	1.578	1.591	1.816	1.878	1.971	1.767		9.91
71) M	1,1,2,2-Tetrachl...	0.418	0.452	0.504	0.502	0.530	0.481		9.43
72)	1,2,3-Trichlorop...	0.384	0.606	0.528	0.526	0.531	0.515		15.61
73)	Bromobenzene	0.372	0.379	0.441	0.451	0.484	0.425		11.41
74)	n-propylbenzene	1.581	1.743	2.059	2.137	2.251	1.954		14.39
75)	2-Chlorotoluene	1.038	1.115	1.323	1.335	1.433	1.249		13.24
76)	1,3,5-Trimethylb...	1.377	1.420	1.641	1.688	1.806	1.587		11.48
77)	t-1,4-Dichloro-2...	0.117	0.145	0.184	0.195	0.210	0.170		22.55
78)	4-Chlorotoluene	0.999	1.129	1.337	1.400	1.496	1.272		16.01
79)	tert-butylbenzene	1.148	1.202	1.355	1.408	1.494	1.321		10.90
80)	1,2,4-Trimethylb...	1.305	1.382	1.622	1.685	1.807	1.560		13.49
81)	sec-Butylbenzene	1.341	1.457	1.718	1.798	1.924	1.648		14.70
82)	p-Isopropyltoluene	1.273	1.387	1.642	1.712	1.818	1.566		14.58
83) M	1,3-Dichlorobenzene	0.576	0.643	0.781	0.826	0.857	0.737		16.47
84) M	1,4-Dichlorobenzene	0.501	0.612	0.768	0.816	0.859	0.711		21.07
85)	n-Butylbenzene	0.908	1.024	1.297	1.421	1.506	1.231		20.84
86) T	Hexachloroethane	0.187	0.199	0.256	0.278	0.300	0.244		20.21
87) M	1,2-Dichlorobenzene	0.596	0.654	0.765	0.812	0.819	0.729		13.67
88)	1,2-Dibromo-3-Ch...	0.086	0.099	0.117	0.134	0.137	0.115		19.04
89)	1,2,4-Trichlorob...	0.250	0.307	0.414	0.492	0.506	0.394		28.73
90)	Hexachlorobutadiene	0.154	0.163	0.180	0.202	0.195	0.179		11.51
91) M	Naphthalene	0.642	0.931	1.216	1.445	1.525	1.152		31.85
92)	1,2,3-Trichlorob...	0.259	0.332	0.421	0.489	0.507	0.401		26.23

(#) = Out of Range