

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N081420W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Aug 14 06:20:27 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN062927.D 20 =VN062928.D 50 =VN062929.D
 100 =VN062930.D 150 =VN062931.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.940	2.758	2.783	2.689	2.690	2.572	13.83
3) M	Chloromethane	2.058	2.059	2.159	2.719	2.143	2.228	12.51
4) M	Vinyl Chloride	2.054	2.060	2.156	3.435	2.063	2.354	25.76
5) M	Bromomethane	2.250	2.030	2.068	1.851	1.950	2.030	7.32
6) M	Chloroethane	2.021	2.092	2.178	1.962	1.952	2.041	4.64
7) M	Trichlorofluorometh	4.542	5.075	4.622	4.083	4.623	4.589	7.68
8) T	Diethyl Ether	1.102	0.968	1.012	0.957	0.983	1.004	5.79
9)	1,1,2-Trichlorotrif	1.735	1.469	1.528	1.352	1.466	1.510	9.36
10) M	1,1-Dichloroethene	1.586	1.325	1.387	1.255	1.368	1.384	8.94
11)	Methyl Iodide	1.796	1.792	2.033	1.903	2.088	1.922	7.03
12)	Methyl Acetate	2.182	2.014	2.122	2.123	2.040	2.096	3.26
13) M	Acrolein	0.291	0.232	0.282	0.262	0.272	0.268	8.52
14) M	Acrylonitrile	0.790	0.859	0.973	0.994	0.959	0.915	9.52
15) M	Acetone	0.240	0.244	0.253	0.236	0.248	0.244	2.76
16) M	Carbon Disulfide	5.060	3.564	3.736	3.658	3.720	3.948	15.85
17)	Allyl chloride	2.493	2.173	2.348	2.495	2.413	2.384	5.59
18) M	Methylene Chloride	2.062	1.705	1.777	1.712	1.698	1.791	8.65
19) M	trans-1,2-Dichloroe	1.761	1.435	1.551	1.473	1.509	1.546	8.25
20) T	Diisopropyl ether	5.027	5.467	5.873	5.882	5.658	5.582	6.34
21) M	1,1-Dichloroethane	3.488	3.243	3.265	3.175	3.163	3.267	4.01
22) M	cis-1,2-Dichloroeth	1.917	1.775	1.895	1.819	1.835	1.848	3.11
23) M	tert-Butyl Alcohol	0.382	0.383	0.396	0.393	0.403	0.392	2.32
24) M	Methyl tert-Butyl E	5.498	5.786	6.416	6.102	6.271	6.015	6.18
25) M	Chloroform	3.735	3.453	3.689	3.383	3.465	3.545	4.42
26)	Cyclohexane	2.399	2.577	2.937	2.984	2.932	2.766	9.49
27) s	1,2-Dichloroethane-	2.698	2.728	2.754	2.607	2.612	2.680	2.51

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.464	0.433	0.443	0.436	0.437	0.443	2.82
30) M	2-Butanone	0.219	0.221	0.233	0.242	0.227	0.228	4.04
31)	2,2-Dichloropropane	0.506	0.444	0.441	0.409	0.403	0.441	9.26
32) M	1,1,1-Trichloroetha	0.674	0.599	0.618	0.563	0.577	0.606	7.15
33) M	Carbon Tetrachlorid	0.611	0.533	0.547	0.489	0.508	0.538	8.68
34) M	Benzene	1.462	1.301	1.322	1.294	1.273	1.330	5.67
35)	Methacrylonitrile	0.165	0.174	0.246	0.219	0.209	0.203	16.32
36) M	1,2-Dichloroethane	0.665	0.573	0.584	0.528	0.539	0.578	9.38
37) M	Trichloroethene	0.369	0.326	0.321	0.316	0.317	0.330	6.76
38)	Methylcyclohexane	0.484	0.504	0.542	0.555	0.562	0.529	6.41
39) M	1,2-Dichloropropane	0.368	0.356	0.369	0.368	0.354	0.363	1.95
40)	Dibromomethane	0.271	0.245	0.247	0.236	0.231	0.246	6.18
41) M	Bromodichloromethan	0.577	0.549	0.567	0.527	0.540	0.552	3.64
42) M	Vinyl Acetate	0.828	0.716	0.774	0.793	0.750	0.772	5.48
43)	Ethyl Acetate	0.515	0.426	0.441	0.448	0.414	0.449	8.72
44)	Isopropyl Acetate	0.745	0.679	0.745	0.763	0.732	0.733	4.35
45) T	1,4-Dioxane	0.007	0.007	0.007	0.007	0.007	0.007#	2.11
46)	Methyl methacrylate	0.367	0.341	0.372	0.379	0.375	0.366	4.14
47)	n-amyl Acetate	0.575	0.602	0.661	0.721	0.710	0.654	9.87
48) M	t-1,3-Dichloroprope	0.581	0.557	0.592	0.570	0.583	0.577	2.32
49) T	cis-1,3-Dichloropro	0.583	0.553	0.593	0.584	0.586	0.580	2.68
50) M	1,1,2-Trichloroetha	0.373	0.351	0.354	0.348	0.341	0.354	3.46
51)	Ethyl methacrylate	0.466	0.497	0.568	0.579	0.581	0.538	9.88
52)	1,3-Dichloropropane	0.644	0.603	0.613	0.600	0.594	0.611	3.22

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.426	0.417	0.434	0.411	0.424	0.423	2.11
54) M	1,2-Dibromoethane	0.385	0.347	0.367	0.354	0.356	0.362	4.10
55) M	2-Chloroethyl vinyl	0.111	0.108	0.137	0.150	0.146	0.130	15.07
56) M	Bromoform	0.293	0.291	0.303	0.302	0.311	0.300	2.70
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.519	0.499	0.534	0.546	0.513	0.522	3.52
59) M	2-Hexanone	0.353	0.363	0.399	0.405	0.385	0.381	5.91
60) S	4-Bromofluorobenzen	0.518	0.497	0.550	0.528	0.548	0.528	4.17
61) M	Tetrachloroethene	0.368	0.296	0.313	0.289	0.285	0.310	11.04
62) M	Toluene	1.760	1.523	1.598	1.533	1.495	1.582	6.72
63) S	Toluene-d8	1.424	1.402	1.418	1.399	1.372	1.403	1.44
64) M	Chlorobenzene	1.084	0.946	0.997	0.964	0.969	0.992	5.51
65)	1,1,1,2-Tetrachloro	0.449	0.402	0.416	0.389	0.395	0.410	5.85
66) M	Ethyl Benzene	1.743	1.637	1.838	1.787	1.799	1.761	4.38
67) M	m/p-Xylenes	0.616	0.631	0.685	0.663	0.665	0.652	4.28
68) M	o-Xylene	0.592	0.584	0.657	0.647	0.649	0.626	5.57
69) M	Styrene	1.013	1.060	1.167	1.153	1.163	1.111	6.33
70)	Isopropylbenzene	1.731	1.680	1.877	1.780	1.836	1.781	4.44
71) M	1,1,2,2-Tetrachloro	0.655	0.561	0.591	0.569	0.553	0.586	7.04
72)	1,2,3-Trichloroprop	0.640	0.589	0.600	0.538	0.535	0.580	7.66
73)	Bromobenzene	0.466	0.411	0.446	0.424	0.436	0.437	4.74
74)	n-propylbenzene	1.991	1.898	2.143	2.112	2.130	2.055	5.19
75)	2-Chlorotoluene	1.321	1.224	1.315	1.290	1.300	1.290	3.00
76)	1,3,5-Trimethylbenz	1.505	1.467	1.679	1.621	1.645	1.583	5.81
77)	t-1,4-Dichloro-2-bu	0.189	0.167	0.192	0.193	0.193	0.187	6.10
78)	4-Chlorotoluene	1.275	1.217	1.362	1.338	1.369	1.312	4.93
79)	tert-butylbenzene	1.216	1.213	1.387	1.342	1.381	1.308	6.65
80)	1,2,4-Trimethylbenz	1.382	1.423	1.652	1.618	1.662	1.547	8.67
81)	sec-Butylbenzene	1.617	1.575	1.818	1.788	1.835	1.727	7.02
82)	p-Isopropyltoluene	1.325	1.396	1.664	1.637	1.698	1.544	11.06
83) M	1,3-Dichlorobenzene	0.719	0.709	0.807	0.782	0.809	0.765	6.29
84) M	1,4-Dichlorobenzene	0.668	0.675	0.790	0.824	0.800	0.751	9.84
85)	n-Butylbenzene	0.988	1.038	1.299	1.796	1.459	1.316	25.08
86) T	Hexachloroethane	0.342	0.293	0.316	0.406	0.316	0.334	12.99
87) M	1,2-Dichlorobenzene	0.723	0.694	0.788	0.968	0.775	0.790	13.52
88)	1,2-Dibromo-3-Chlor	0.131	0.108	0.138	0.172	0.141	0.138	16.61
89)	1,2,4-Trichlorobenz	0.200	0.278	0.378	0.507	0.455	0.364	34.50
90)	Hexachlorobutadiene	0.237	0.214	0.245	0.282	0.237	0.243	10.24
91) M	Naphthalene	0.497	0.696	1.021	1.429	1.280	0.985	39.58
92)	1,2,3-Trichlorobenz	0.216	0.282	0.387	0.490	0.446	0.364	31.24

(#) = Out of Range