

Method Path : Z:\VOASRV\HPCHEM1\MSV0A X\METHOD\
 Method File : 624X032719W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Wed Mar 27 12:01:15 2019
 Response Via : Initial Calibration

Calibration Files

5 =VX008471.D 20 =VX008472.D 50 =VX008473.D
 100 =VX008474.D 150 =VX008475.D

Compound		5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	2.082	2.059	2.028	2.107	1.981	2.051	2.39
3) M	Chloromethane	2.792	2.723	2.629	2.680	2.614	2.688	2.71
4) M	Vinyl Chloride	2.852	2.689	2.632	2.760	2.613	2.709	3.62
5) M	Bromomethane	1.386	1.278	1.371	1.513	1.470	1.404	6.51
6) M	Chloroethane	2.480	1.663	1.611	1.617	1.495	1.773	22.55
7) M	Trichlorofluorometh	3.200	3.008	2.960	3.026	2.841	3.007	4.31
8) T	Diethyl Ether	1.529	1.433	1.384	1.405	1.339	1.418	5.02
9)	1,1,2-Trichlorotrif	2.062	1.825	1.834	1.871	1.770	1.873	5.98
10) M	1,1-Dichloroethene	1.975	1.878	1.873	1.930	1.842	1.900	2.77
11)	Methyl Iodide	1.588	1.769	2.012	2.269	2.198	1.967	14.60
12)	Methyl Acetate	1.605	1.538	1.501	1.563	1.492	1.540	3.00
13) M	Acrolein	0.442	0.430	0.420	0.482	0.435	0.442	5.42
14) M	Acrylonitrile	1.459	1.406	1.394	1.464	1.395	1.424	2.44
15) M	Acetone	0.430	0.483	0.443	0.437	0.403	0.439	6.60
16) M	Carbon Disulfide	6.133	5.780	5.748	6.048	5.841	5.910	2.89
17)	Allyl chloride	4.366	4.131	4.191	4.419	4.241	4.270	2.82
18) M	Methylene Chloride	2.454	2.263	2.203	2.274	2.161	2.271	4.93
19) M	trans-1,2-Dichloroe	2.140	2.000	1.979	2.060	1.969	2.030	3.51
20) T	Diisopropyl ether	8.713	8.221	8.103	8.433	8.083	8.310	3.18
21) M	1,1-Dichloroethane	4.347	4.140	4.080	4.254	4.035	4.171	3.07
22) M	cis-1,2-Dichloroeth	2.478	2.291	2.297	2.382	2.279	2.345	3.61
23) M	tert-Butyl Alcohol	0.576	0.564	0.569	0.594	0.570	0.575	2.05
24) M	Methyl tert-Butyl E	7.263	6.913	6.820	7.113	6.801	6.982	2.86
25) M	Chloroform	3.995	3.782	3.660	3.816	3.640	3.778	3.78
26)	Cyclohexane	4.378	3.948	3.963	4.091	3.883	4.052	4.86
27) s	1,2-Dichloroethane-	2.511	2.540	2.493	2.471	2.533	2.510	1.13

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.517	0.495	0.504	0.525	0.483	0.505	3.36
30) M	2-Butanone	0.367	0.382	0.373	0.383	0.351	0.371	3.51
31)	2,2-Dichloropropane	0.505	0.490	0.503	0.530	0.492	0.504	3.18
32) M	1,1,1-Trichloroetha	0.539	0.515	0.520	0.543	0.503	0.524	3.19
33) M	Carbon Tetrachlorid	0.446	0.426	0.436	0.458	0.426	0.439	3.13
34) M	Benzene	1.628	1.532	1.523	1.578	1.453	1.543	4.24
35)	Methacrylonitrile	0.395	0.365	0.370	0.393	0.364	0.377	4.06
36) M	1,2-Dichloroethane	0.594	0.546	0.544	0.554	0.512	0.550	5.32
37) M	Trichloroethene	0.372	0.344	0.350	0.367	0.341	0.355	3.89
38)	Methylcyclohexane	0.676	0.619	0.632	0.654	0.599	0.636	4.67
39) M	1,2-Dichloropropane	0.469	0.434	0.429	0.447	0.409	0.438	5.07
40)	Dibromomethane	0.270	0.247	0.250	0.261	0.240	0.253	4.56
41) M	Bromodichloromethan	0.492	0.485	0.499	0.526	0.491	0.498	3.25
42) M	Vinyl Acetate	1.275	1.252	1.263	1.302	1.198	1.258	3.06
43)	Ethyl Acetate	0.649	0.677	0.667	0.701	0.646	0.668	3.33
44)	Isopropyl Acetate	1.050	1.057	1.075	1.143	1.075	1.080	3.40
45) T	1,4-Dioxane	0.011	0.011	0.011	0.011	0.010	0.011#	5.03
46)	Methyl methacrylate	0.532	0.534	0.545	0.585	0.547	0.549	3.87
47)	n-amyl Acetate	0.893	0.925	1.019	1.061	1.007	0.981	7.08
48) M	t-1,3-Dichloroprope	0.501	0.524	0.565	0.629	0.597	0.563	9.23
49) T	cis-1,3-Dichloropro	0.586	0.605	0.639	0.682	0.636	0.630	5.81
50) M	1,1,2-Trichloroetha	0.398	0.361	0.371	0.386	0.365	0.376	4.13
51)	Ethyl methacrylate	0.682	0.665	0.693	0.751	0.711	0.700	4.68
52)	1,3-Dichloropropane	0.695	0.662	0.658	0.689	0.643	0.670	3.27

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.357	0.349	0.366	0.401	0.379	0.370	5.47
54) M	1,2-Dibromoethane	0.398	0.377	0.381	0.402	0.381	0.388	2.89
55) M	2-Chloroethyl vinyl	0.321	0.314	0.354	0.418	0.360	0.353	11.65
56) M	Bromoform	0.239	0.246	0.270	0.305	0.290	0.270	10.35
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.797	0.790	0.789	0.824	0.758	0.791	3.01
59) M	2-Hexanone	0.615	0.646	0.642	0.639	0.585	0.625	4.08
60) S	4-Bromofluorobenzene	0.516	0.520	0.523	0.524	0.530	0.523	0.96
61) M	Tetrachloroethene	0.360	0.328	0.321	0.329	0.302	0.328	6.41
62) M	Toluene	1.965	1.823	1.793	1.823	1.678	1.816	5.63
63) S	Toluene-d8	1.439	1.469	1.432	1.402	1.378	1.424	2.46
64) M	Chlorobenzene	1.109	1.049	1.055	1.089	1.020	1.064	3.31
65)	1,1,1,2-Tetrachloro	0.376	0.365	0.372	0.394	0.370	0.375	2.96
66) M	Ethyl Benzene	2.100	2.003	2.003	2.062	1.913	2.016	3.52
67) M	m/p-Xylenes	0.757	0.728	0.727	0.760	0.706	0.735	3.09
68) M	o-Xylene	0.746	0.715	0.713	0.736	0.687	0.720	3.16
69) M	Styrene	1.245	1.216	1.245	1.318	1.237	1.252	3.07
70)	Isopropylbenzene	2.002	1.867	1.883	1.937	1.802	1.898	3.96
71) M	1,1,2,2-Tetrachloro	0.720	0.702	0.722	0.726	0.676	0.709	2.90
72)	1,2,3-Trichloroprop	0.612	0.612	0.611	0.607	0.556	0.599	4.11
73)	Bromobenzene	0.454	0.438	0.450	0.474	0.443	0.452	3.13
74)	n-propylbenzene	2.321	2.210	2.242	2.339	2.194	2.261	2.89
75)	2-Chlorotoluene	1.397	1.323	1.329	1.389	1.289	1.345	3.44
76)	1,3,5-Trimethylbenz	1.676	1.587	1.594	1.679	1.578	1.623	3.11
77)	t-1,4-Dichloro-2-bu	0.179	0.206	0.238	0.270	0.257	0.230	16.30
78)	4-Chlorotoluene	1.594	1.486	1.525	1.616	1.521	1.548	3.50
79)	tert-butylbenzene	1.702	1.622	1.635	1.727	1.607	1.658	3.16
80)	1,2,4-Trimethylbenz	1.669	1.580	1.604	1.677	1.561	1.618	3.24
81)	sec-Butylbenzene	1.936	1.812	1.824	1.910	1.789	1.854	3.49
82)	p-Isopropyltoluene	1.702	1.622	1.635	1.727	1.607	1.658	3.16
83) M	1,3-Dichlorobenzene	0.821	0.768	0.792	0.843	0.785	0.802	3.76
84) M	1,4-Dichlorobenzene	0.816	0.764	0.799	0.842	0.785	0.801	3.70
85)	n-Butylbenzene	1.525	1.501	1.567	1.690	1.596	1.576	4.68
86) T	Hexachloroethane	0.255	0.259	0.275	0.305	0.292	0.277	7.65
87) M	1,2-Dichlorobenzene	0.836	0.778	0.814	0.832	0.780	0.808	3.42
88)	1,2-Dibromo-3-Chlor	0.149	0.156	0.163	0.163	0.155	0.157	3.81
89)	1,2,4-Trichlorobenz	0.552	0.527	0.571	0.584	0.551	0.557	3.93
90)	Hexachlorobutadiene	0.278	0.259	0.271	0.275	0.259	0.268	3.27
91) M	Naphthalene	1.902	1.927	1.949	1.939	1.829	1.909	2.52
92)	1,2,3-Trichlorobenz	0.576	0.551	0.568	0.571	0.541	0.561	2.61

(#) = Out of Range