

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\
 Method File : 624X112020W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Nov 19 18:08:03 2020
 Response Via : Initial Calibration

Calibration Files

5 =VX019468.D 20 =VX019469.D 50 =VX019470.D
 100 =VX019471.D 150 =VX019472.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.524	1.713	1.648	1.755	1.697	1.668	5.31
3) M	Chloromethane	1.842	1.882	1.861	1.848	1.836	1.854	1.00
4) M	Vinyl Chloride	2.034	2.026	1.990	2.101	2.066	2.043	2.06
5) M	Bromomethane	0.867	0.793	0.784	0.741		0.796	6.55
6) M	Chloroethane	0.621	0.751	0.598	0.480	0.454	0.581	20.58
7) M	Trichlorofluorometh	2.918	2.849	2.863	2.980	2.946	2.911	1.89
8) T	Diethyl Ether	1.212	1.150	1.159	1.213	1.204	1.188	2.56
9)	1,1,2-Trichlorotrif	1.721	1.601	1.589	1.680	1.652	1.649	3.33
10) M	1,1-Dichloroethene	1.666	1.610	1.609	1.716	1.704	1.661	3.04
11)	Methyl Iodide	1.746	1.921	2.173	2.335	2.344	2.104	12.52
12)	Methyl Acetate	1.992	1.913	1.936	2.066	2.050	1.991	3.38
13) M	Acrolein	0.323	0.273	0.286	0.305	0.302	0.298	6.41
14) M	Acrylonitrile	0.962	0.935	0.967	1.007	0.986	0.971	2.79
15) M	Acetone	0.294	0.272	0.275	0.289	0.281	0.282	3.23
16) M	Carbon Disulfide	4.193	4.090	4.248	4.708	4.742	4.396	6.95
17)	Allyl chloride	2.359	2.334	2.446	2.658	2.687	2.497	6.65
18) M	Methylene Chloride	2.103	1.983	1.948	2.020	1.990	2.009	2.90
19) M	trans-1,2-Dichloroe	1.812	1.766	1.805	1.959	1.933	1.855	4.61
20) T	Diisopropyl ether	5.171	5.114	5.286	5.606	5.629	5.361	4.52
21) M	1,1-Dichloroethane	3.259	3.137	3.171	3.393	3.352	3.262	3.40
22) M	cis-1,2-Dichloroeth	2.114	2.042	2.089	2.259	2.230	2.147	4.35
23) M	tert-Butyl Alcohol	0.402	0.439	0.410	0.424	0.411	0.417	3.48
24) M	Methyl tert-Butyl E	5.428	5.414	5.593	6.082	6.037	5.711	5.71
25) M	Chloroform	3.458	3.305	3.370	3.507	3.493	3.427	2.52
26)	Cyclohexane	2.727	2.638	2.729	2.955	2.914	2.793	4.85
27) s	1,2-Dichloroethane-	2.180	2.179	2.112	2.138	2.172	2.156	1.41

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.462	0.434	0.458	0.484	0.468	0.461	3.91
30) M	2-Butanone	0.236	0.228	0.235	0.238	0.227	0.233	2.21
31)	2,2-Dichloropropane	0.510	0.499	0.511	0.544	0.527	0.518	3.36
32) M	1,1,1-Trichloroetha	0.547	0.518	0.533	0.559	0.547	0.541	2.92
33) M	Carbon Tetrachlorid	0.442	0.433	0.461	0.485	0.473	0.459	4.68
34) M	Benzene	1.459	1.389	1.419	1.466	1.427	1.432	2.18
35)	Methacrylonitrile	0.243	0.230	0.237	0.250	0.241	0.240	3.08
36) M	1,2-Dichloroethane	0.522	0.486	0.488	0.499	0.484	0.496	3.24
37) M	Trichloroethene	0.390	0.366	0.374	0.389	0.381	0.380	2.66
38)	Methylcyclohexane	0.540	0.525	0.552	0.595	0.573	0.557	4.91
39) M	1,2-Dichloropropane	0.349	0.347	0.349	0.367	0.356	0.354	2.32
40)	Dibromomethane	0.243	0.244	0.245	0.252	0.245	0.246	1.46
41) M	Bromodichloromethan	0.461	0.458	0.487	0.512	0.498	0.483	4.82
42) M	Vinyl Acetate	0.781	0.796	0.848	0.893	0.870	0.838	5.74
43)	Ethyl Acetate	0.450	0.424	0.445	0.469	0.453	0.448	3.63
44)	Isopropyl Acetate	0.720	0.690	0.727	0.761	0.739	0.727	3.56
45) T	1,4-Dioxane	0.008	0.008	0.008	0.008	0.008	0.008#	2.75
46)	Methyl methacrylate	0.340	0.336	0.362	0.377	0.365	0.356	4.84
47)	n-amyl Acetate	0.520	0.563	0.632	0.661	0.659	0.607	10.37
48) M	t-1,3-Dichloroprope	0.477	0.494	0.538	0.560	0.555	0.525	7.09
49) T	cis-1,3-Dichloropro	0.548	0.546	0.588	0.615	0.602	0.580	5.45
50) M	1,1,2-Trichloroetha	0.385	0.370	0.370	0.365	0.352	0.368	3.21
51)	Ethyl methacrylate	0.485	0.491	0.544	0.557	0.558	0.527	6.85
52)	1,3-Dichloropropane	0.636	0.608	0.624	0.618	0.590	0.615	2.79

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.338	0.350	0.381	0.385	0.381	0.367	5.79
54) M	1,2-Dibromoethane	0.383	0.378	0.390	0.382	0.372	0.381	1.80
55) M	2-Chloroethyl vinyl	0.288	0.280	0.291	0.300	0.292	0.290	2.57
56) M	Bromoform	0.221	0.239	0.271	0.285	0.285	0.260	11.01
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.459	0.454	0.485	0.509	0.489	0.479	4.70
59) M	2-Hexanone	0.354	0.348	0.376	0.393	0.378	0.370	5.02
60) S	4-Bromofluorobenzene	0.465	0.482	0.497	0.502	0.500	0.489	3.21
61) M	Tetrachloroethene	0.416	0.394	0.375	0.399	0.371	0.391	4.69
62) M	Toluene	1.680	1.583	1.668	1.754	1.704	1.678	3.73
63) S	Toluene-d8	1.333	1.338	1.325	1.354	1.337	1.337	0.81
64) M	Chlorobenzene	1.020	0.979	1.023	1.064	1.025	1.022	2.95
65)	1,1,1,2-Tetrachloro	0.357	0.355	0.376	0.400	0.394	0.376	5.49
66) M	Ethyl Benzene	1.760	1.747	1.863	1.948	1.874	1.839	4.59
67) M	m/p-Xylenes	0.647	0.656	0.707	0.733	0.700	0.689	5.26
68) M	o-Xylene	0.612	0.616	0.660	0.700	0.676	0.653	5.88
69) M	Styrene	0.985	1.044	1.143	1.207	1.182	1.112	8.49
70)	Isopropylbenzene	1.674	1.696	1.787	1.863	1.826	1.769	4.62
71) M	1,1,2,2-Tetrachloro	0.582	0.573	0.600	0.641	0.625	0.604	4.70
72)	1,2,3-Trichloroprop	0.538	0.516	0.543	0.573	0.545	0.543	3.79
73)	Bromobenzene	0.440	0.417	0.433	0.461	0.454	0.441	3.97
74)	n-propylbenzene	1.903	1.950	2.105	2.211	2.118	2.057	6.19
75)	2-Chlorotoluene	1.193	1.187	1.240	1.297	1.252	1.234	3.68
76)	1,3,5-Trimethylbenz	1.381	1.411	1.541	1.601	1.562	1.499	6.49
77)	t-1,4-Dichloro-2-bu	0.139	0.160	0.192	0.220	0.220	0.186	19.38
78)	4-Chlorotoluene	1.344	1.371	1.461	1.544	1.489	1.442	5.77
79)	tert-butylbenzene	1.315	1.333	1.466	1.553	1.524	1.438	7.57
80)	1,2,4-Trimethylbenz	1.369	1.420	1.556	1.629	1.559	1.507	7.16
81)	sec-Butylbenzene	1.586	1.648	1.750	1.853	1.794	1.726	6.29
82)	p-Isopropyltoluene	1.410	1.470	1.589	1.718	1.662	1.570	8.22
83) M	1,3-Dichlorobenzene	0.793	0.778	0.796	0.873	0.830	0.814	4.70
84) M	1,4-Dichlorobenzene	0.777	0.785	0.824	0.877	0.856	0.824	5.28
85)	n-Butylbenzene	1.240	1.299	1.461	1.596	1.566	1.433	11.04
86) T	Hexachloroethane	0.216	0.237	0.266	0.300	0.302	0.264	14.37
87) M	1,2-Dichlorobenzene	0.765	0.766	0.812	0.851	0.831	0.805	4.80
88)	1,2-Dibromo-3-Chlor	0.108	0.113	0.128	0.144	0.143	0.127	13.16
89)	1,2,4-Trichlorobenz	0.456	0.480	0.547	0.599	0.603	0.537	12.49
90)	Hexachlorobutadiene	0.223	0.234	0.234	0.258	0.258	0.241	6.43
91) M	Naphthalene	1.349	1.533	1.756	1.970	1.937	1.709	15.56
92)	1,2,3-Trichlorobenz	0.457	0.490	0.546	0.606	0.587	0.537	11.76

(#) = Out of Range