

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X090122W.M
 Title : SW846 8260
 Last Update : Fri Sep 02 02:49:21 2022
 Response Via : Initial Calibration

Calibration Files

1 =VX031019.D 5 =VX031020.D 20 =VX031022.D 50 =VX031023.D 100 =VX031024.D 10 =VX031021.D

	Compound	1	5	20	50	100	10	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.548	0.531	0.549	0.524	0.445	0.490	0.514	7.84
3) P	Chloromethane	0.583	0.441	0.432	0.427	0.346	0.411	0.440	17.71
4) C	Vinyl Chloride	0.585	0.551	0.546	0.558	0.475	0.510	0.537	7.22#
5) T	Bromomethane		0.256	0.232	0.253	0.205	0.254	0.240	9.04
6) T	Chloroethane	0.322	0.244	0.302	0.292	0.164	0.293	0.269	21.40
7) T	Trichlorofluor...	0.943	0.928	0.932	0.943	0.823	0.879	0.908	5.26
8) T	Diethyl Ether	0.340	0.321	0.323	0.330	0.283	0.304	0.317	6.40
9) T	1,1,2-Trichlor...	0.646	0.617	0.630	0.612	0.535	0.569	0.602	6.89
10) T	Methyl Iodide		0.351	0.478	0.621	0.593	0.372	0.483	25.58
11) T	Tert butyl alc...		0.197	0.148	0.141	0.122	0.158	0.153	18.16
12) CM	1,1-Dichloroet...	0.603	0.570	0.597	0.621	0.540	0.554	0.581	5.40#
13) T	Acrolein		0.114	0.118	0.126	0.115	0.116	0.118	4.12
14) T	Allyl chloride	0.817	0.783	0.794	0.813	0.699	0.723	0.771	6.37
15) T	Acrylonitrile	0.303	0.297	0.317	0.319	0.272	0.303	0.302	5.59
16) T	Acetone	0.294	0.241	0.250	0.252	0.212	0.241	0.248	10.69
17) T	Carbon Disulfide	1.840	1.435	1.489	1.545	1.361	1.380	1.509	11.68
18) T	Methyl Acetate	0.764	0.746	0.737	0.738	0.616	0.682	0.714	7.74
19) T	Methyl tert-bu...	1.792	1.754	1.870	1.926	1.663	1.728	1.789	5.37
20) T	Methylene Chlo...	0.885	0.707	0.678	0.675	0.573	0.638	0.693	15.14
21) T	trans-1,2-Dich...	0.772	0.617	0.648	0.655	0.566	0.620	0.646	10.71
22) T	Diisopropyl ether	1.489	1.549	1.655	1.666	1.408	1.558	1.554	6.32
23) T	Vinyl Acetate	1.197	1.208	1.345	1.371	1.180	1.232	1.256	6.48
24) P	1,1-Dichloroet...	1.092	1.042	1.084	1.124	0.938	1.004	1.047	6.47
25) T	2-Butanone	0.399	0.376	0.401	0.405	0.345	0.375	0.383	6.03
26) T	2,2-Dichloropr...	0.982	0.805	0.844	0.862	0.746	0.776	0.836	9.99
27) T	cis-1,2-Dichlo...	0.799	0.699	0.743	0.758	0.659	0.688	0.724	7.10
28) T	Bromochloromet...	0.332	0.321	0.346	0.317	0.278	0.267	0.310	9.95
29) T	Tetrahydrofuran	0.271	0.247	0.259	0.257	0.218	0.231	0.247	7.88
30) C	Chloroform	1.221	1.123	1.189	1.188	1.026	1.143	1.149	6.06#
31) T	Cyclohexane		0.869	0.926	0.943	0.810	0.846	0.879	6.28
32) T	1,1,1-Trichlor...	0.963	0.984	1.044	1.060	0.921	0.936	0.985	5.77
33) S	1,2-Dichloroet...		0.663	0.675	0.633	0.622	0.623	0.643	3.81
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.380	0.381	0.350	0.360	0.353	0.365	4.02
36) T	1,1-Dichloropr...	0.606	0.506	0.523	0.497	0.454	0.480	0.511	10.23
37) T	Ethyl Acetate	0.522	0.417	0.444	0.457	0.397	0.428	0.444	9.83
38) T	Carbon Tetrach...	0.586	0.529	0.540	0.541	0.488	0.499	0.531	6.56
39) T	Methylcyclohexane	0.617	0.637	0.662	0.660	0.601	0.624	0.633	3.86
40) TM	Benzene	1.467	1.466	1.560	1.513	1.348	1.449	1.467	4.83
41) T	Methacrylonitrile	0.232	0.242	0.243	0.248	0.220	0.237	0.237	4.17
42) TM	1,2-Dichloroet...	0.515	0.480	0.505	0.493	0.438	0.473	0.484	5.64
43) T	Isopropyl Acetate	0.709	0.677	0.708	0.709	0.663	0.699	0.694	2.84
44) TM	Trichloroethene	0.484	0.480	0.485	0.480	0.436	0.422	0.464	6.01
45) C	1,2-Dichloropr...	0.416	0.357	0.397	0.392	0.335	0.359	0.376	8.11#
46) T	Dibromomethane	0.291	0.287	0.294	0.280	0.267	0.270	0.282	3.89
47) T	Bromodichlorom...	0.561	0.501	0.546	0.560	0.479	0.510	0.526	6.53
48) T	Methyl methacr...	0.373	0.343	0.376	0.359	0.328	0.323	0.350	6.41
49) T	1,4-Dioxane	0.011	0.010	0.012	0.011	0.010	0.010	0.011	7.88
50) S	Toluene-d8		1.363	1.411	1.362	1.319	1.260	1.343	4.24
51) T	4-Methyl-2-Pen...	0.454	0.441	0.476	0.458	0.409	0.440	0.446	5.06
52) CM	Toluene	0.982	0.967	0.988	0.987	0.874	0.912	0.952	4.97#
53) T	t-1,3-Dichloro...	0.499	0.501	0.544	0.571	0.520	0.488	0.521	6.07
54) T	cis-1,3-Dichlo...	0.566	0.561	0.625	0.628	0.566	0.548	0.582	5.98
55) T	1,1,2-Trichlor...	0.436	0.405	0.419	0.411	0.371	0.386	0.405	5.76
56) T	Ethyl methacry...	0.518	0.530	0.605	0.598	0.541	0.526	0.553	6.96

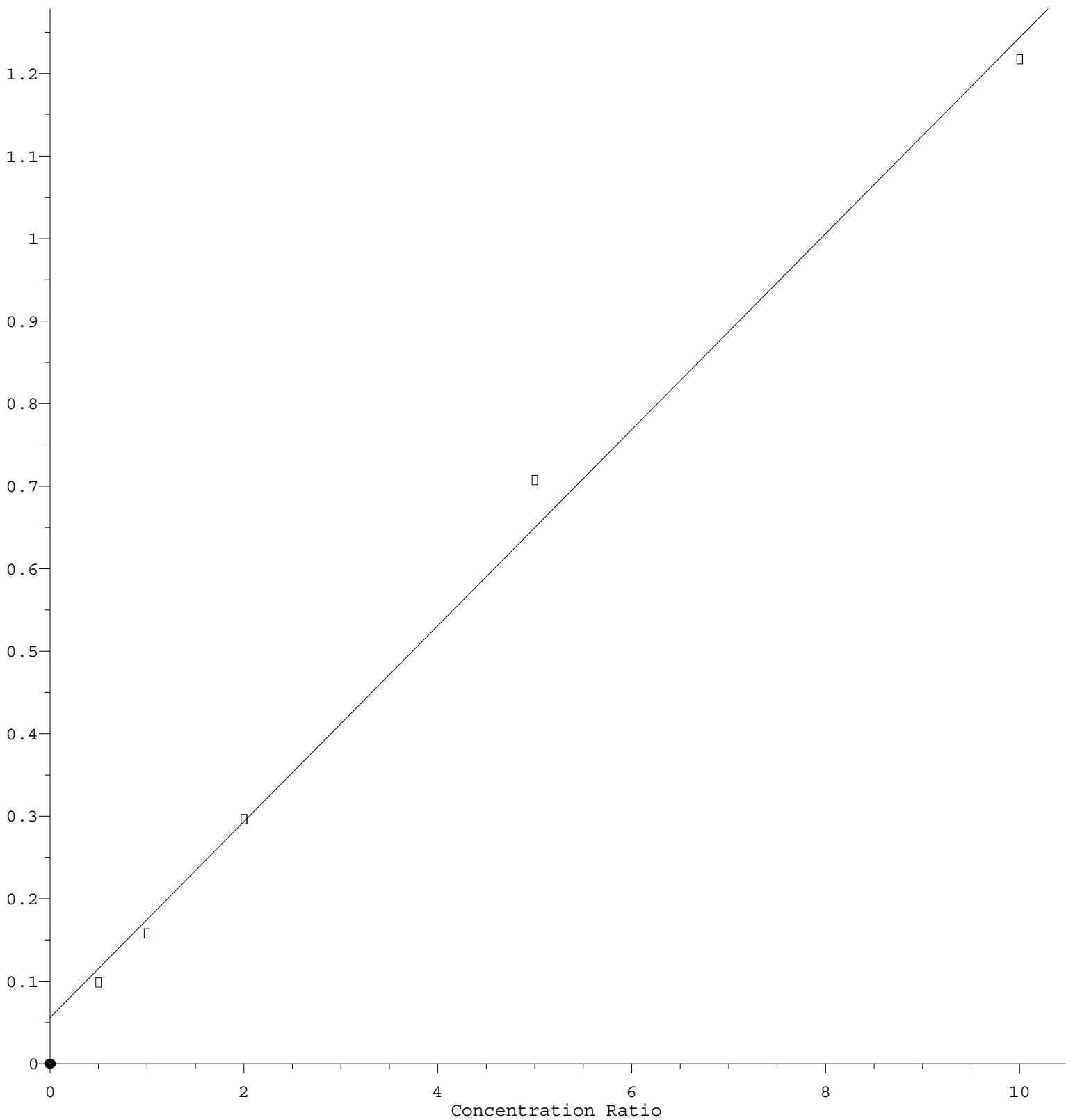
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57)	T	1,3-Dichloropr...	0.666	0.627	0.687	0.652	0.581	0.625	0.640	5.83
58)	T	2-Chloroethyl ...	0.249	0.240	0.314	0.310	0.285	0.260	0.276	11.38
59)	T	2-Hexanone	0.317	0.337	0.381	0.355	0.298	0.336	0.337	8.58
60)	T	Dibromochlorom...	0.409	0.391	0.436	0.463	0.414	0.407	0.420	6.07
61)	T	1,2-Dibromoethane	0.418	0.422	0.450	0.438	0.410	0.425	0.427	3.43
62)	S	4-Bromofluorob...	0.463	0.500	0.490	0.476	0.442	0.474	4.79	
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.523	0.492	0.509	0.527	0.456	0.488	0.499	5.26
65)	PM	Chlorobenzene	1.289	1.185	1.211	1.257	1.074	1.148	1.194	6.50
66)	T	1,1,1,2-Tetrac...	0.475	0.409	0.450	0.468	0.419	0.425	0.441	6.18
67)	C	Ethyl Benzene	2.027	1.975	2.149	2.218	1.910	1.996	2.046	5.65#
68)	T	m/p-Xylenes	0.778	0.781	0.843	0.864	0.753	0.794	0.802	5.28
69)	T	o-Xylene	0.746	0.767	0.867	0.844	0.743	0.755	0.787	6.90
70)	T	Styrene	1.138	1.213	1.375	1.413	1.234	1.267	1.273	8.10
71)	P	Bromoform	0.327	0.319	0.348	0.389	0.345	0.328	0.343	7.43
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.952	4.056	4.231	4.404	3.628	3.913	4.031	6.69
74)	T	N-amyl acetate	1.169	1.179	1.273	1.360	1.151	1.169	1.217	6.77
75)	P	1,1,2,2-Tetrac...	1.482	1.257	1.283	1.303	1.081	1.328	1.289	10.01
76)	T	1,2,3-Trichlor...	1.197	1.163	1.224	1.229	1.018	1.261	1.182	7.34
77)	T	Bromobenzene	1.212	0.978	1.068	1.090	0.930	0.958	1.039	10.14
78)	T	n-propylbenzene	4.544	4.522	4.729	4.949	4.416	4.384	4.591	4.65
79)	T	2-Chlorotoluene	2.923	2.835	2.951	2.951	2.514	2.786	2.827	5.91
80)	T	1,3,5-Trimethy...	3.397	3.389	3.572	3.596	3.093	3.304	3.392	5.45
81)	T	trans-1,4-Dich...	0.365	0.367	0.425	0.380	0.343	0.376	8.08	
82)	T	4-Chlorotoluene	3.325	3.172	3.263	3.280	2.885	3.051	3.163	5.29
83)	T	tert-Butylbenzene	3.419	3.206	3.576	3.666	3.038	3.350	3.376	6.88
84)	T	1,2,4-Trimethy...	3.007	3.428	3.593	3.599	3.356	3.245	3.371	6.67
85)	T	sec-Butylbenzene	3.982	4.504	4.783	4.921	4.122	4.218	4.422	8.53
86)	T	p-Isopropyltol...	2.943	3.457	3.892	3.914	3.501	3.305	3.502	10.49
87)	T	1,3-Dichlorobe...	2.075	2.025	2.032	2.153	1.811	1.848	1.991	6.71
88)	T	1,4-Dichlorobe...	2.236	2.114	1.980	2.042	1.709	1.813	1.982	9.80
89)	T	n-Butylbenzene	3.030	2.902	3.252	3.707	3.209	2.846	3.157	9.93
90)	T	Hexachloroethane	0.640	0.562	0.671	0.703	0.629	0.603	0.635	7.87
91)	T	1,2-Dichlorobe...	2.268	1.937	2.178	2.254	1.777	1.836	2.042	10.70
92)	T	1,2-Dibromo-3-...	0.325	0.300	0.322	0.339	0.300	0.299	0.314	5.38
93)	T	1,2,4-Trichlor...	1.229	1.275	1.329	1.459	1.265	1.195	1.292	7.24
94)	T	Hexachlorobuta...	0.670	0.536	0.566	0.586	0.507	0.530	0.566	10.27
95)	T	Naphthalene	4.780	4.176	4.660	4.906	4.304	4.366	4.532	6.42
96)	T	1,2,3-Trichlor...	1.376	1.312	1.408	1.463	1.301	1.273	1.355	5.38

(#) = Out of Range

Tert butyl alcohol

Response Ratio



$$\text{Response} = 1.188\text{e-}001 * \text{Amt} + 5.591\text{e-}002$$

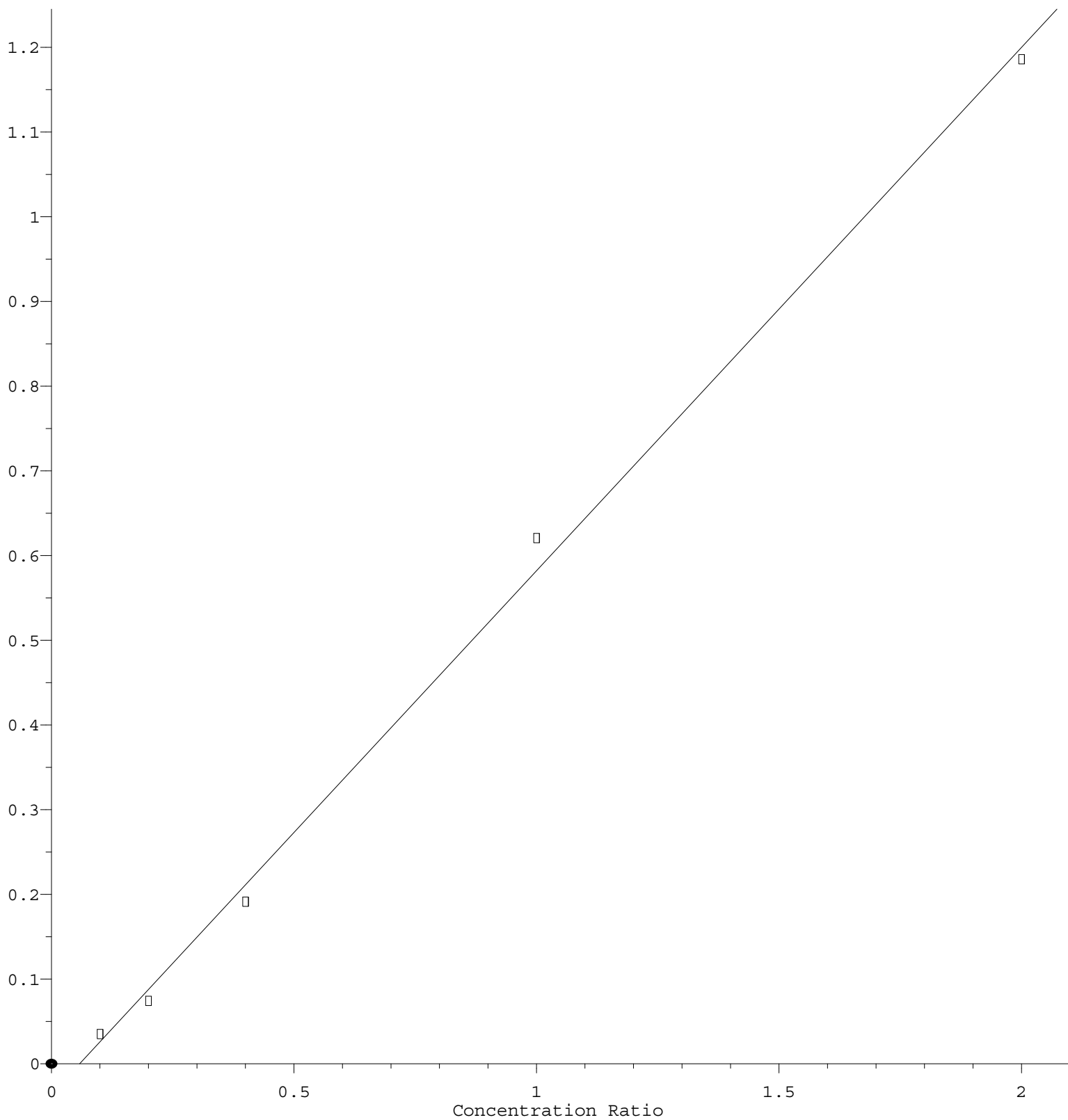
Coef of Det (r^2) = 0.994771 Curve Fit: Linear

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Methyl Iodide

Response Ratio



$$\text{Response} = 6.181\text{e-}001 * \text{Amt} - 3.596\text{e-}002$$

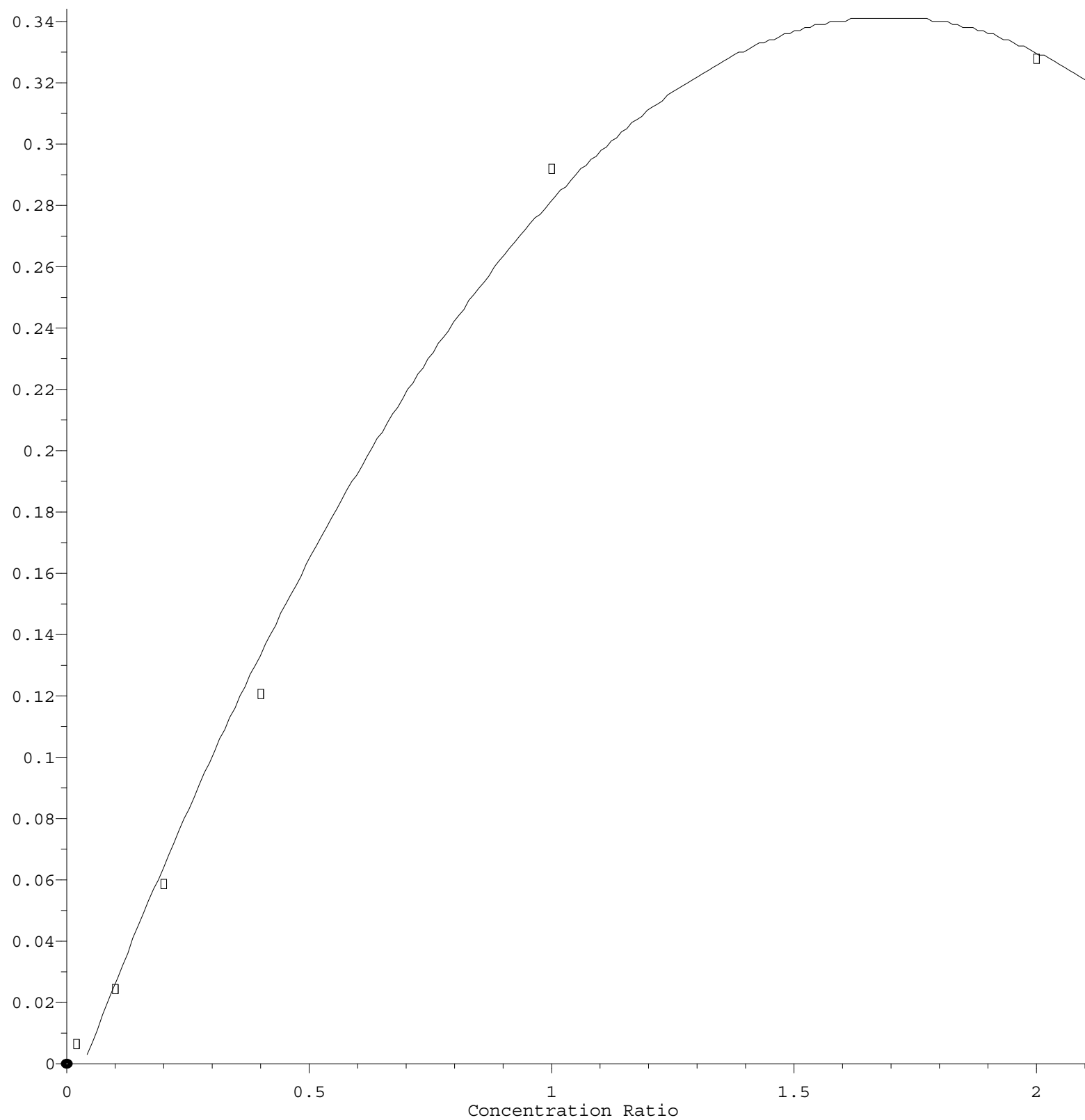
Coef of Det (r^2) = 0.997518 Curve Fit: Linear

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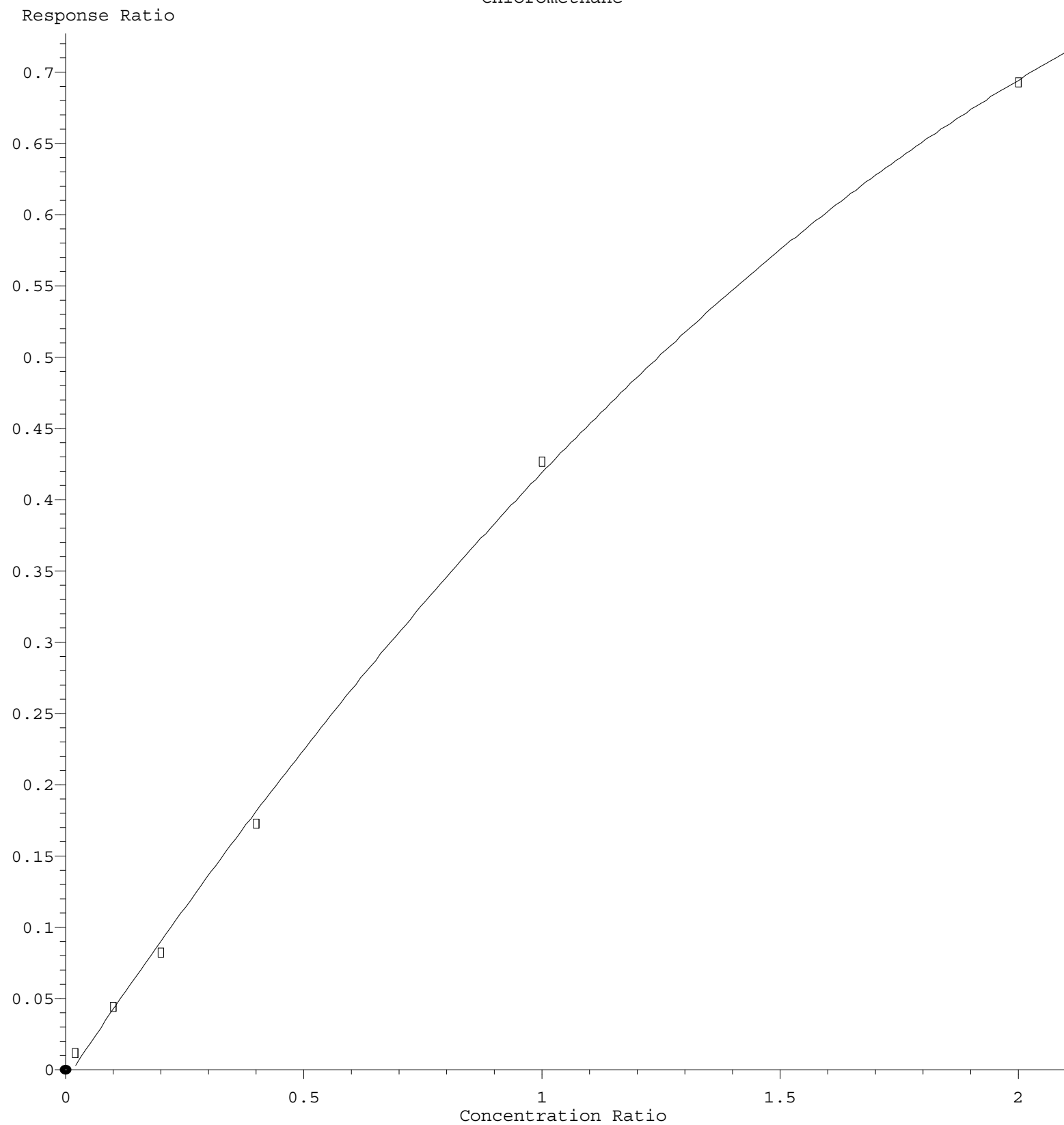
Chloroethane

Response Ratio



$R = -1.239e-001 A^2 + 4.199e-001 A - 1.447e-002$
 Coef of Det (r^2) = 0.995044 Curve Fit: Quadratic
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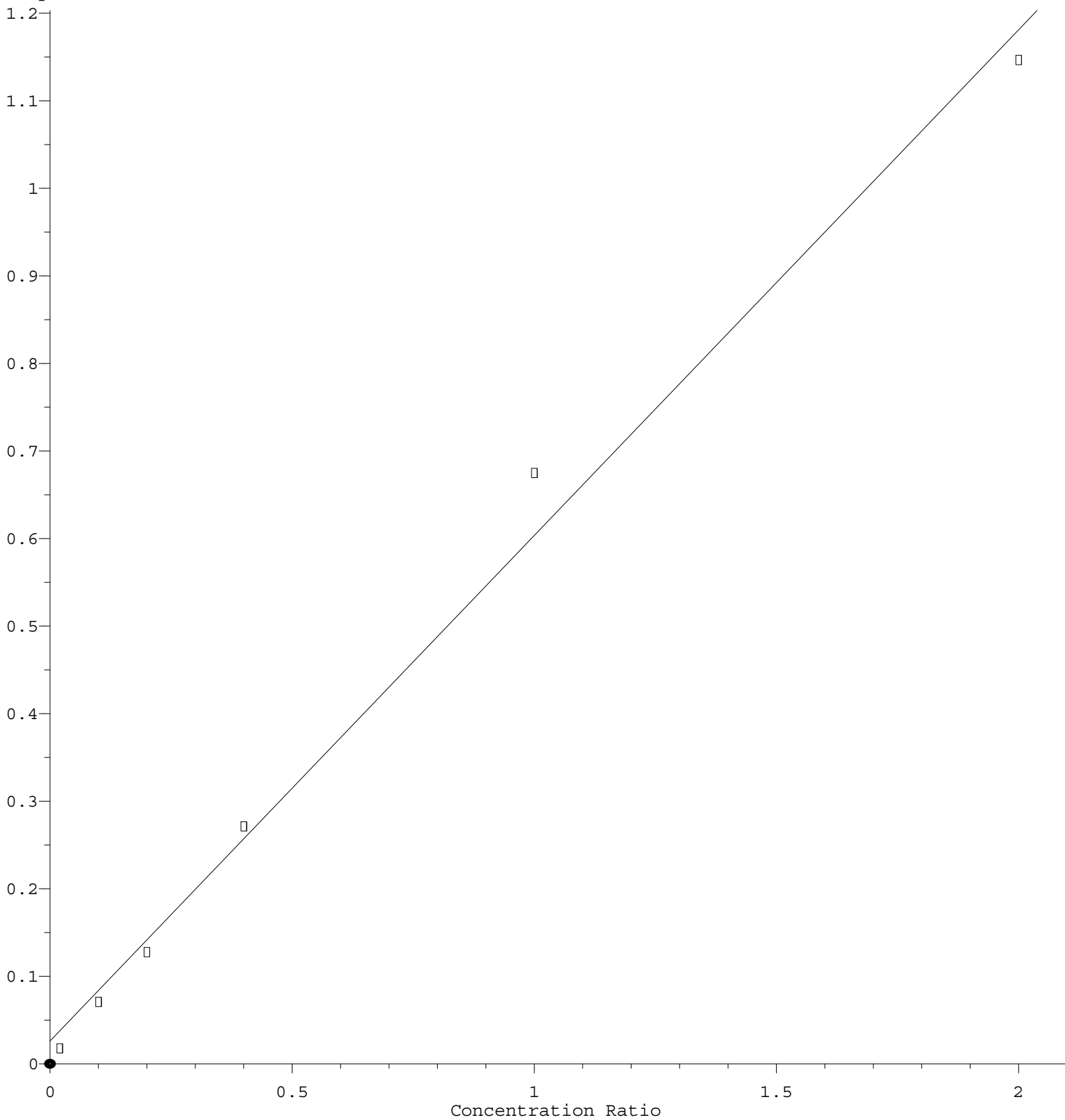
Chloromethane



$R = -7.515e-002 A^2 + 5.010e-001 A - 7.003e-003$
Coef of Det (r^2) = 0.999220 Curve Fit: Quadratic
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Methylene Chloride

Response Ratio



$$\text{Response} = 5.778\text{e-}001 * \text{Amt} + 2.648\text{e-}002$$

Coef of Det (r^2) = 0.992602 Curve Fit: Linear

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