

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X011123W.M
 Title : SW846 8260
 Last Update : Wed Jan 11 14:48:42 2023
 Response Via : Initial Calibration

Calibration Files

1 =VX033690.D 5 =VX033691.D 20 =VX033692.D 50 =VX033693.D 100 =VX033694.D 150 =VX033695.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.418	0.375	0.402	0.408	0.390	0.379	0.395	4.29
3) P	Chloromethane	0.570	0.370	0.360	0.501	0.417	0.439	0.443	18.10
4) C	Vinyl Chloride	0.491	0.366	0.346	0.491	0.425	0.423	0.424	14.32#
5) T	Bromomethane	0.237	0.229	0.235	0.246	0.270	0.243		6.56
6) T	Chloroethane	0.271	0.276	0.258	0.272	0.258	0.236	0.262	5.66
7) T	Trichlorofluor...	0.800	0.727	0.732	0.710	0.605	0.548	0.687	13.53
8) T	Diethyl Ether	0.238	0.220	0.215	0.208	0.232	0.237	0.225	5.53
9) T	1,1,2-Trichlor...	0.547	0.471	0.444	0.311	0.422	0.397	0.432	18.15
10) T	Methyl Iodide	0.543	0.596	0.439	0.612	0.587	0.555		12.58
11) T	Tert butyl alc...	0.112	0.092	0.090	0.085	0.078	0.091		14.23
12) CM	1,1-Dichloroet...	0.478	0.436	0.424	0.299	0.415	0.389	0.407	14.79#
13) T	Acrolein	0.093	0.099	0.069	0.087	0.075	0.084		14.83
14) T	Allyl chloride	0.893	0.797	0.791	0.634	0.771	0.719	0.767	11.28
15) T	Acrylonitrile	0.260	0.248	0.244	0.247	0.232	0.212	0.241	6.96
16) T	Acetone	0.348	0.250	0.245	0.169	0.202	0.180	0.232	28.21
17) T	Carbon Disulfide	1.308	1.052	1.082	0.789	1.112	1.052	1.066	15.56
18) T	Methyl Acetate	0.831	0.758	0.737	0.741	0.699	0.642	0.735	8.56
19) T	Methyl tert-bu...	1.578	1.407	1.407	1.440	1.360	1.286	1.413	6.85
20) T	Methylene Chlo...	0.663	0.531	0.496	0.487	0.462	0.432	0.512	15.83
21) T	trans-1,2-Dich...	0.545	0.482	0.474	0.473	0.454	0.426	0.476	8.33
22) T	Diisopropyl ether	1.719	1.579	1.599	1.575	1.437	1.354	1.544	8.36
23) T	Vinyl Acetate	1.208	1.152	1.200	1.221	1.129	1.064	1.162	5.14
24) P	1,1-Dichloroet...	0.956	0.865	0.836	0.851	0.807	0.753	0.845	7.99
25) T	2-Butanone	0.416	0.350	0.352	0.345	0.315	0.285	0.344	12.73
26) T	2,2-Dichloropr...	0.667	0.592	0.593	0.616	0.593	0.569	0.605	5.59
27) T	cis-1,2-Dichlo...	0.604	0.558	0.546	0.556	0.524	0.494	0.547	6.76
28) T	Bromochloromet...	0.388	0.402	0.404	0.382	0.365	0.367	0.385	4.29
29) T	Tetrahydrofuran	0.240	0.225	0.223	0.223	0.203	0.187	0.217	8.58
30) C	Chloroform	0.966	0.908	0.889	0.872	0.802	0.754	0.865	8.81#
31) T	Cyclohexane	0.810	0.802	0.807	0.752	0.702	0.775		6.06
32) T	1,1,1-Trichlor...	0.811	0.732	0.740	0.757	0.717	0.675	0.739	6.11
33) S	1,2-Dichloroet...	0.596	0.521	0.511	0.500	0.505	0.526		7.51
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.327	0.297	0.302	0.313	0.314	0.310		3.79
36) T	1,1-Dichloropr...	0.517	0.460	0.453	0.454	0.432	0.403	0.453	8.35
37) T	Ethyl Acetate	0.687	0.504	0.483	0.461	0.435	0.406	0.496	20.12
38) T	Carbon Tetrach...	0.504	0.467	0.472	0.483	0.458	0.431	0.469	5.17
39) T	Methylcyclohexane	0.616	0.548	0.557	0.564	0.554	0.519	0.560	5.68
40) TM	Benzene	1.482	1.349	1.317	1.335	1.257	1.185	1.321	7.53
41) T	Methacrylonitrile	0.241	0.249	0.267	0.263	0.246	0.231	0.250	5.43
42) TM	1,2-Dichloroet...	0.522	0.491	0.487	0.471	0.434	0.403	0.468	9.19
43) T	Isopropyl Acetate	0.739	0.706	0.709	0.732	0.717	0.689	0.715	2.53
44) TM	Trichloroethene	0.373	0.375	0.373	0.375	0.369	0.352	0.369	2.43
45) C	1,2-Dichloropr...	0.350	0.328	0.340	0.337	0.323	0.306	0.331	4.64#
46) T	Dibromomethane	0.249	0.235	0.234	0.232	0.225	0.212	0.231	5.22
47) T	Bromodichlorom...	0.452	0.438	0.459	0.463	0.445	0.415	0.445	3.88
48) T	Methyl methacr...	0.363	0.343	0.375	0.382	0.360	0.339	0.360	4.76
49) T	1,4-Dioxane	0.008	0.008	0.008	0.008	0.008	0.007	0.008	6.94
50) S	Toluene-d8	1.164	1.094	1.118	1.133	1.147	1.131		2.38
51) T	4-Methyl-2-Pen...	0.445	0.453	0.474	0.464	0.419	0.382	0.439	7.70
52) CM	Toluene	0.934	0.859	0.866	0.868	0.823	0.769	0.853	6.41#
53) T	t-1,3-Dichloro...	0.403	0.400	0.451	0.481	0.478	0.460	0.445	8.02
54) T	cis-1,3-Dichlo...	0.446	0.467	0.511	0.536	0.531	0.503	0.499	7.14
55) T	1,1,2-Trichlor...	0.378	0.344	0.338	0.340	0.323	0.303	0.338	7.30
56) T	Ethyl methacry...	0.430	0.451	0.497	0.513	0.496	0.465	0.475	6.70

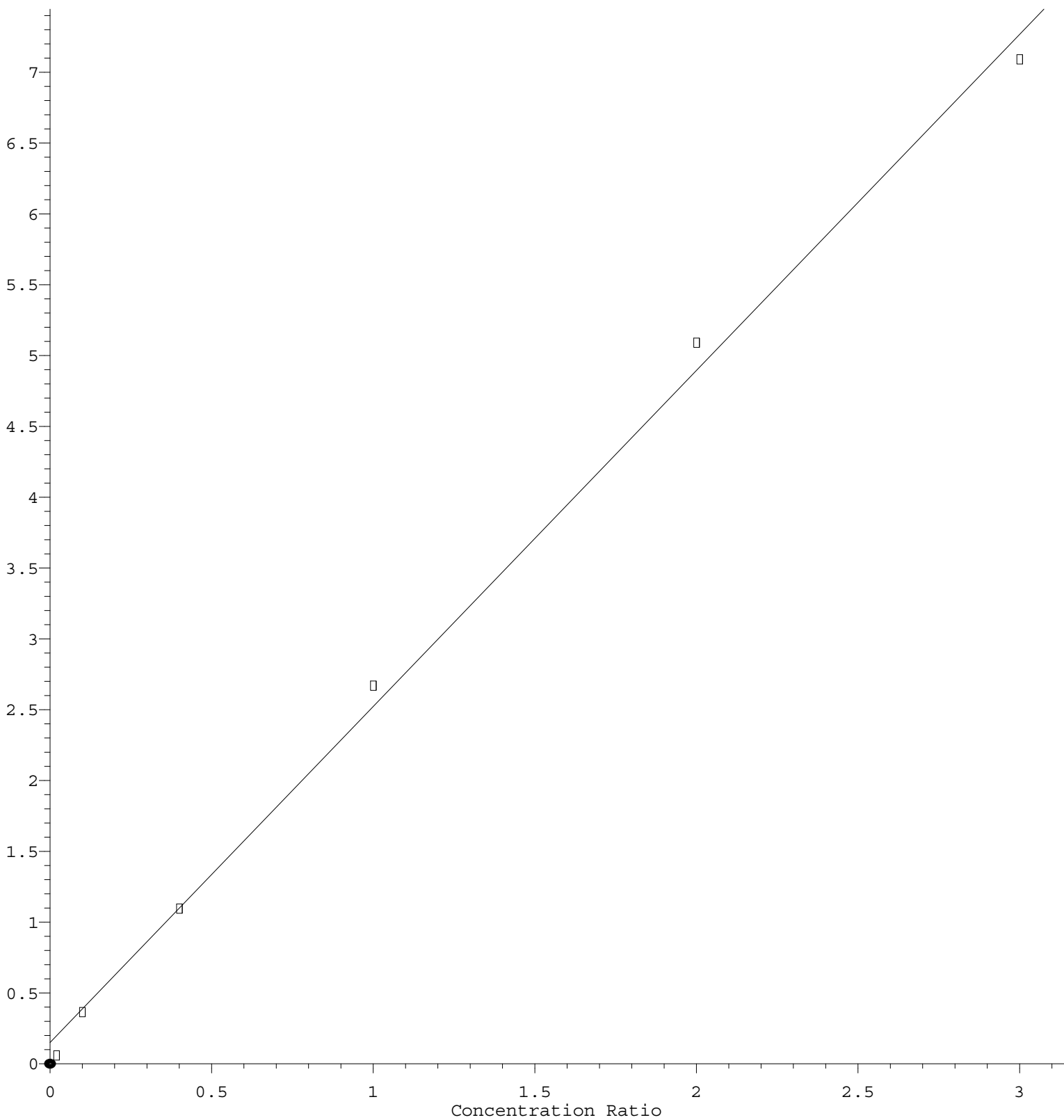
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 Method File : 82X011123W.M

57)	T	1,3-Dichloropr...	0.509	0.570	0.584	0.577	0.540	0.505	0.547	6.39
58)	T	2-Chloroethyl ...	0.243	0.231	0.241	0.242	0.237	0.211	0.234	5.23
59)	T	2-Hexanone	0.241	0.323	0.348	0.339	0.305	0.279	0.306	13.11
60)	T	Dibromochlorom...	0.265	0.348	0.371	0.384	0.375	0.356	0.350	12.42
61)	T	1,2-Dibromoethane	0.266	0.345	0.360	0.372	0.350	0.329	0.337	11.19
62)	S	4-Bromofluorob...	0.434	0.405	0.418	0.420	0.423	0.420		2.54
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.500	0.365	0.356	0.373	0.355	0.339	0.381	15.48
65)	PM	Chlorobenzene	1.179	1.044	1.025	1.035	0.993	0.935	1.035	7.82
66)	T	1,1,1,2-Tetrac...	0.394	0.376	0.379	0.390	0.382	0.364	0.381	2.80
67)	C	Ethyl Benzene	1.913	1.788	1.799	1.822	1.720	1.621	1.777	5.56#
68)	T	m/p-Xylenes	0.708	0.707	0.714	0.716	0.686	0.640	0.695	4.14
69)	T	o-Xylene	0.732	0.684	0.708	0.711	0.673	0.628	0.689	5.34
70)	T	Styrene	1.124	1.105	1.156	1.187	1.118	1.038	1.121	4.51
71)	P	Bromoform	0.357	0.272	0.309	0.334	0.331	0.312	0.319	9.07
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.880	4.637	3.472	3.429	3.348	3.104	3.645	15.02
74)	T	N-amyl acetate	1.206	1.543	1.289	1.328	1.288	1.224	1.313	9.23
75)	P	1,1,2,2-Tetrac...	1.188	1.436	1.075	1.020	0.966	0.896	1.097	17.64
76)	T	1,2,3-Trichlor...	1.040	1.109	0.860	0.822	0.880	0.801	0.919	13.67
77)	T	Bromobenzene	1.098	1.234	0.915	0.931	0.898	0.843	0.986	15.07
78)	T	n-propylbenzene	4.130	5.120	3.953	3.940	3.797	3.540	4.080	13.39
79)	T	2-Chlorotoluene	2.687	3.207	2.387	2.336	2.218	2.067	2.483	16.50
80)	T	1,3,5-Trimethy...	3.106	3.823	2.945	2.856	2.749	2.573	3.009	14.55
81)	T	trans-1,4-Dich...	0.297	0.272	0.296	0.312	0.302	0.296		5.00
82)	T	4-Chlorotoluene	2.949	3.645	2.739	2.669	2.545	2.364	2.818	15.95
83)	T	tert-Butylbenzene	3.174	3.114	3.004	2.991	2.915	2.727	2.987	5.28
84)	T	1,2,4-Trimethy...	2.943	2.952	2.923	2.907	2.767	2.583	2.846	5.11
85)	T	sec-Butylbenzene	3.743	3.612	3.644	3.672	3.500	3.267	3.573	4.75
86)	T	p-Isopropyltol...	3.115	3.013	3.158	3.172	3.042	2.854	3.059	3.87
87)	T	1,3-Dichlorobe...	1.934	1.627	1.687	1.702	1.645	1.542	1.689	7.83
88)	T	1,4-Dichlorobe...	2.006	1.724	1.706	1.704	1.644	1.543	1.721	8.97
89)	T	n-Butylbenzene	2.538	2.332	2.585	2.609	2.546	2.406	2.503	4.37
90)	T	Hexachloroethane	0.532	0.430	0.501	0.528	0.525	0.504	0.503	7.60
91)	T	1,2-Dichlorobe...	1.849	1.579	1.676	1.645	1.567	1.465	1.630	7.94
92)	T	1,2-Dibromo-3-...	0.213	0.187	0.212	0.208	0.208	0.196	0.204	5.02
93)	T	1,2,4-Trichlor...	1.151	0.942	1.092	1.168	1.153	1.084	1.098	7.66
94)	T	Hexachlorobuta...	0.613	0.481	0.535	0.545	0.540	0.514	0.538	8.07
95)	T	Naphthalene	3.273	2.714	3.316	3.326	3.255	3.072	3.159	7.50
96)	T	1,2,3-Trichlor...	1.174	0.976	1.107	1.139	1.124	1.073	1.099	6.28

(#) = Out of Range

4-Chlorotoluene

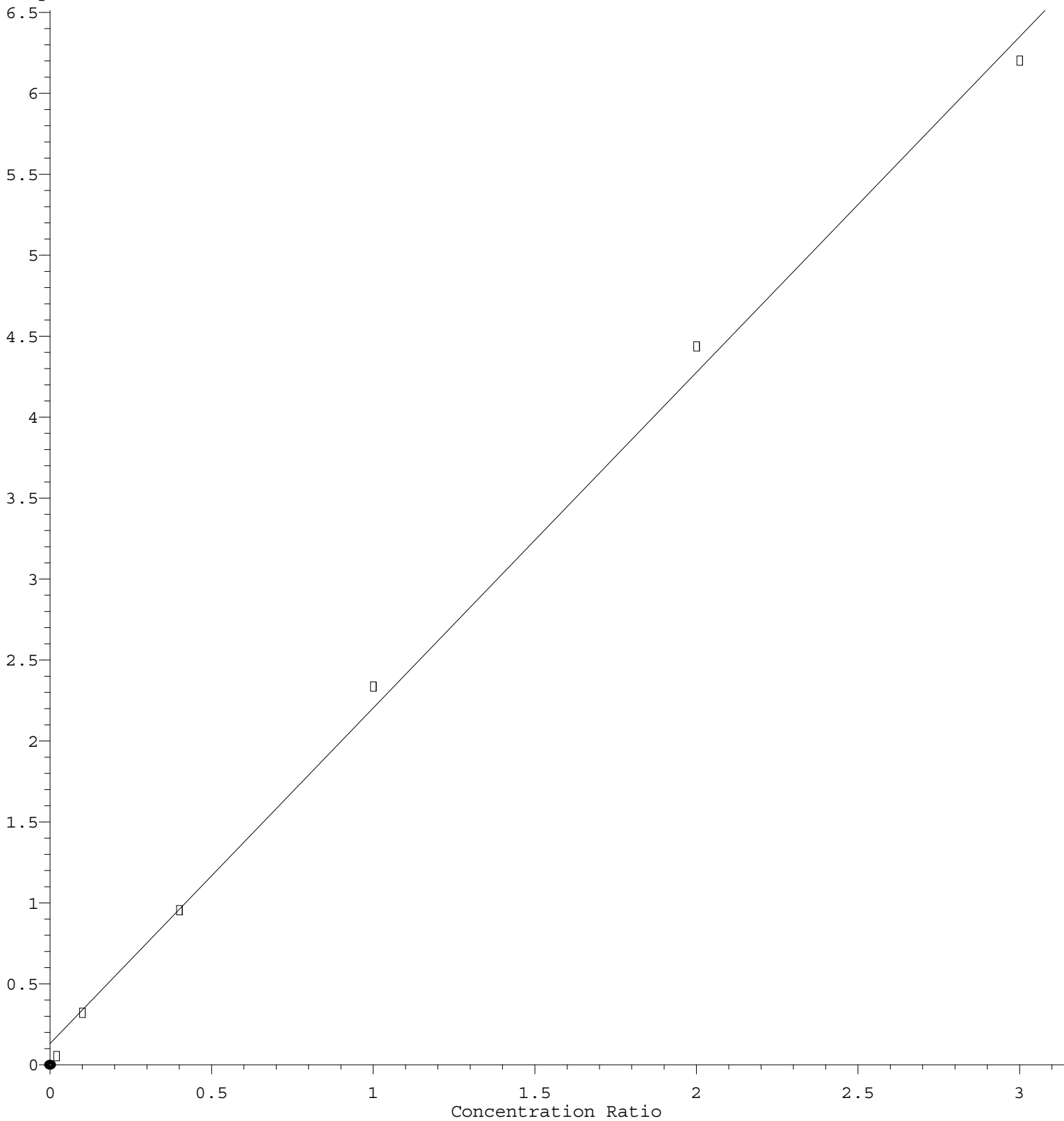
Response Ratio



$\text{Response} = 2.373\text{e}+000 * \text{Amt} + 1.501\text{e}-001$
 Coef of Det (r^2) = 0.997233 Curve Fit: Linear
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2-Chlorotoluene

Response Ratio



$$\text{Response} = 2.073\text{e}+000 * \text{Amt} + 1.314\text{e}-001$$

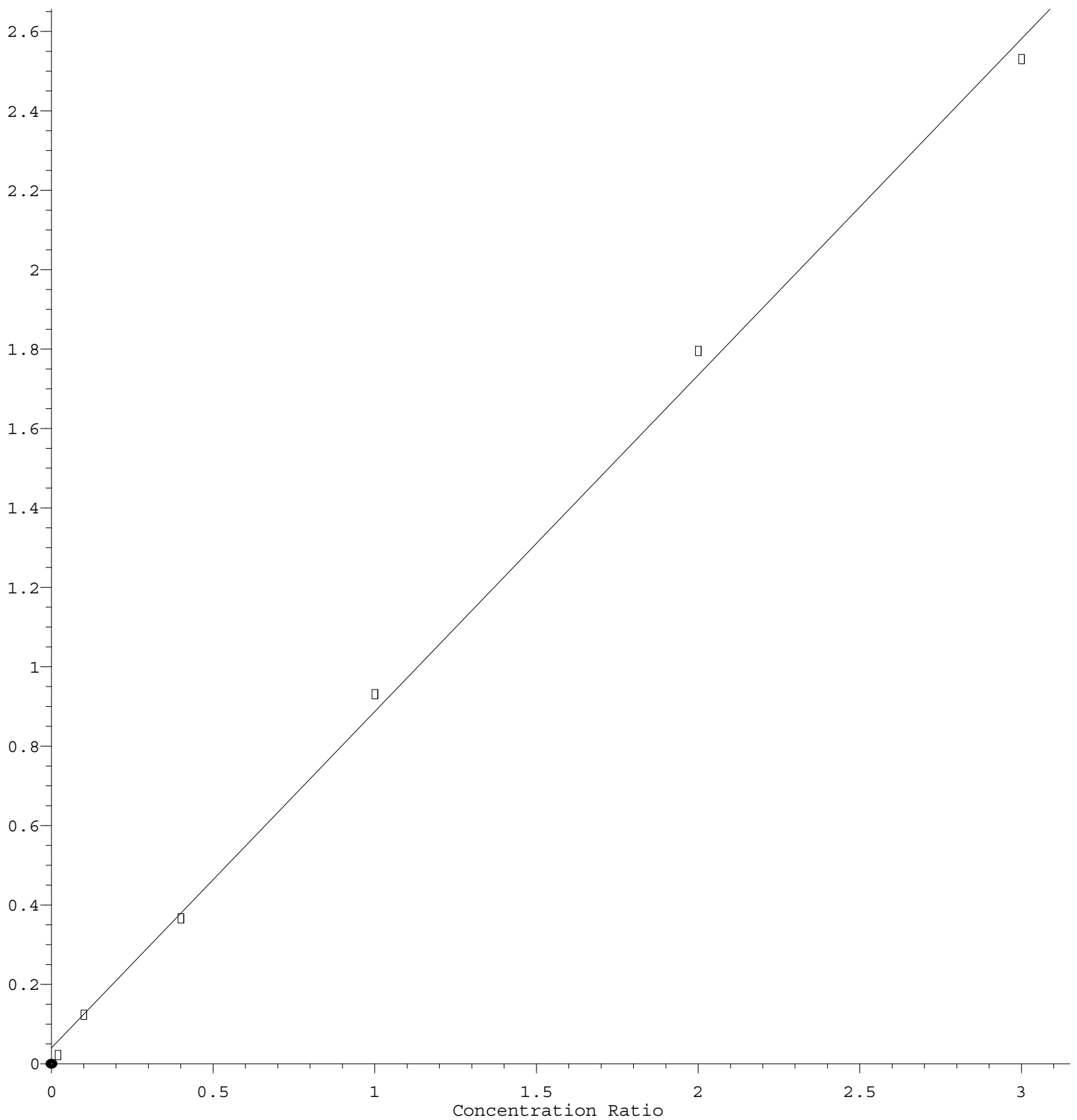
Coef of Det (r^2) = 0.997409 Curve Fit: Linear

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Bromobenzene

Response Ratio



$$\text{Response} = 8.473\text{e-}001 * \text{Amt} + 4.048\text{e-}002$$

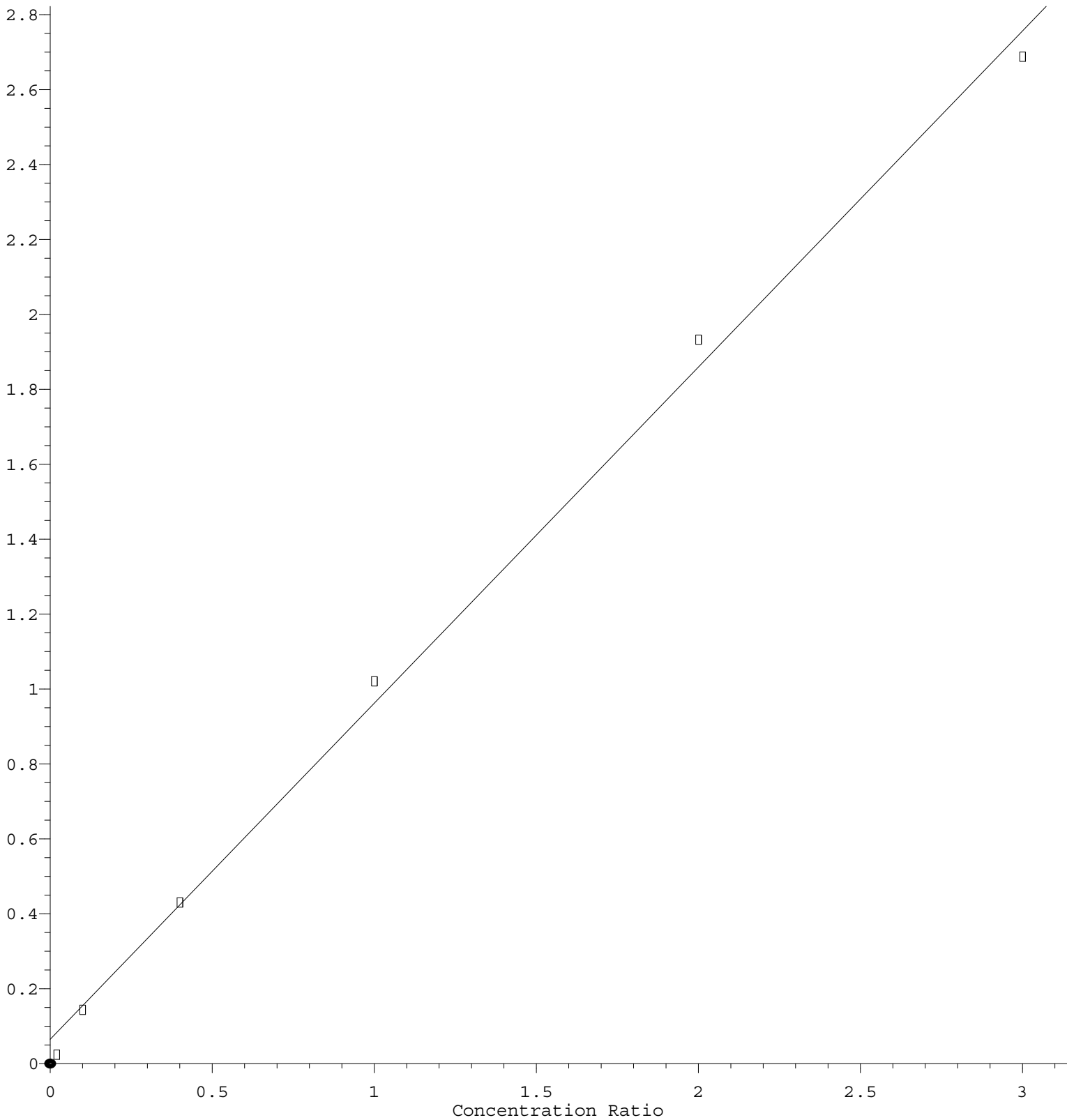
Coef of Det (r^2) = 0.998112 Curve Fit: Linear

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1,1,2,2-Tetrachloroethane

Response Ratio



$$\text{Response} = 8.972\text{e-}001 * \text{Amt} + 6.477\text{e-}002$$

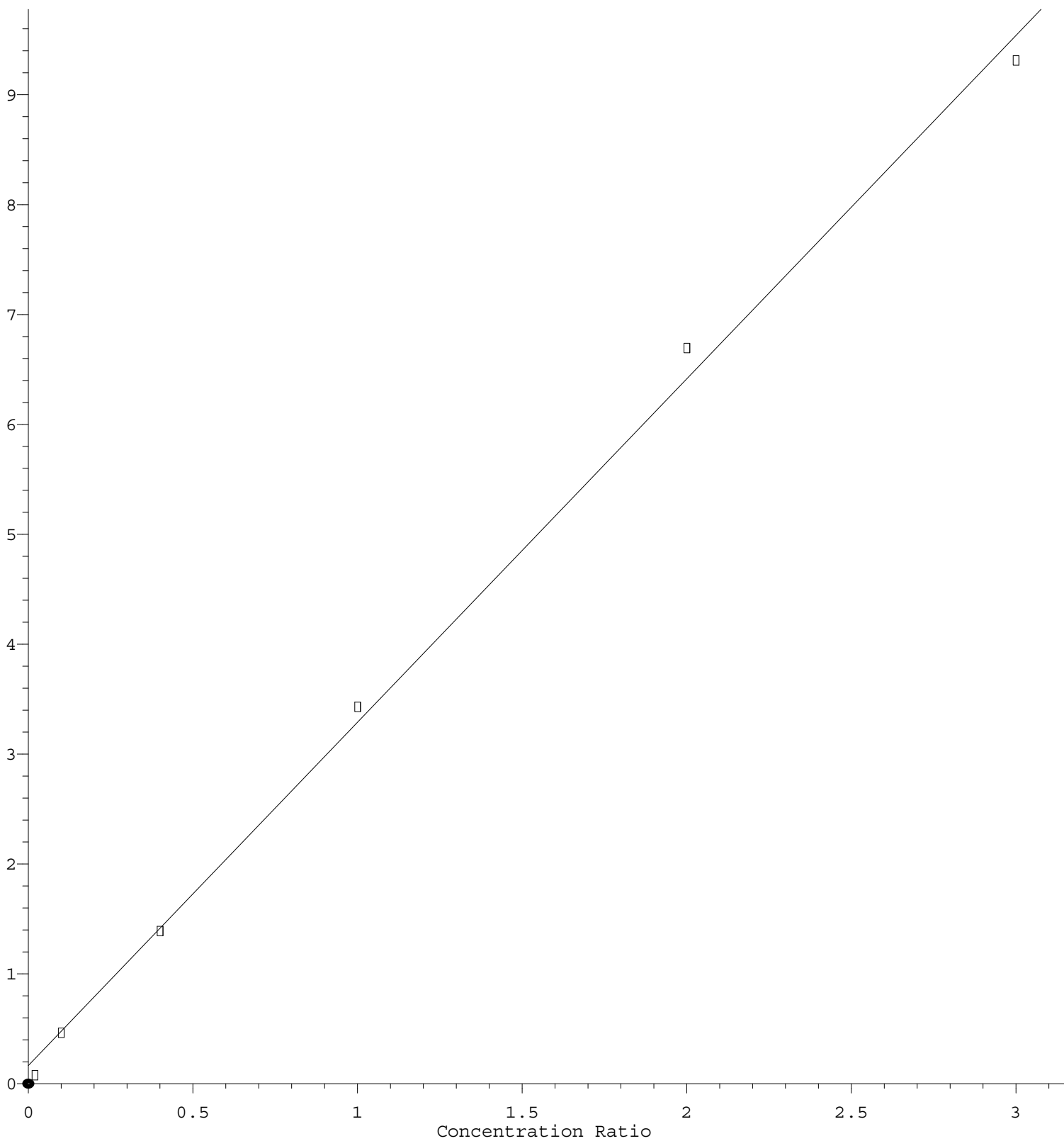
Coef of Det (r^2) = 0.997005 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X011123W.M

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Isopropylbenzene

Response Ratio



$$\text{Response} = 3.125 \times 10^0 \times \text{Amt} + 1.654 \times 10^{-1}$$

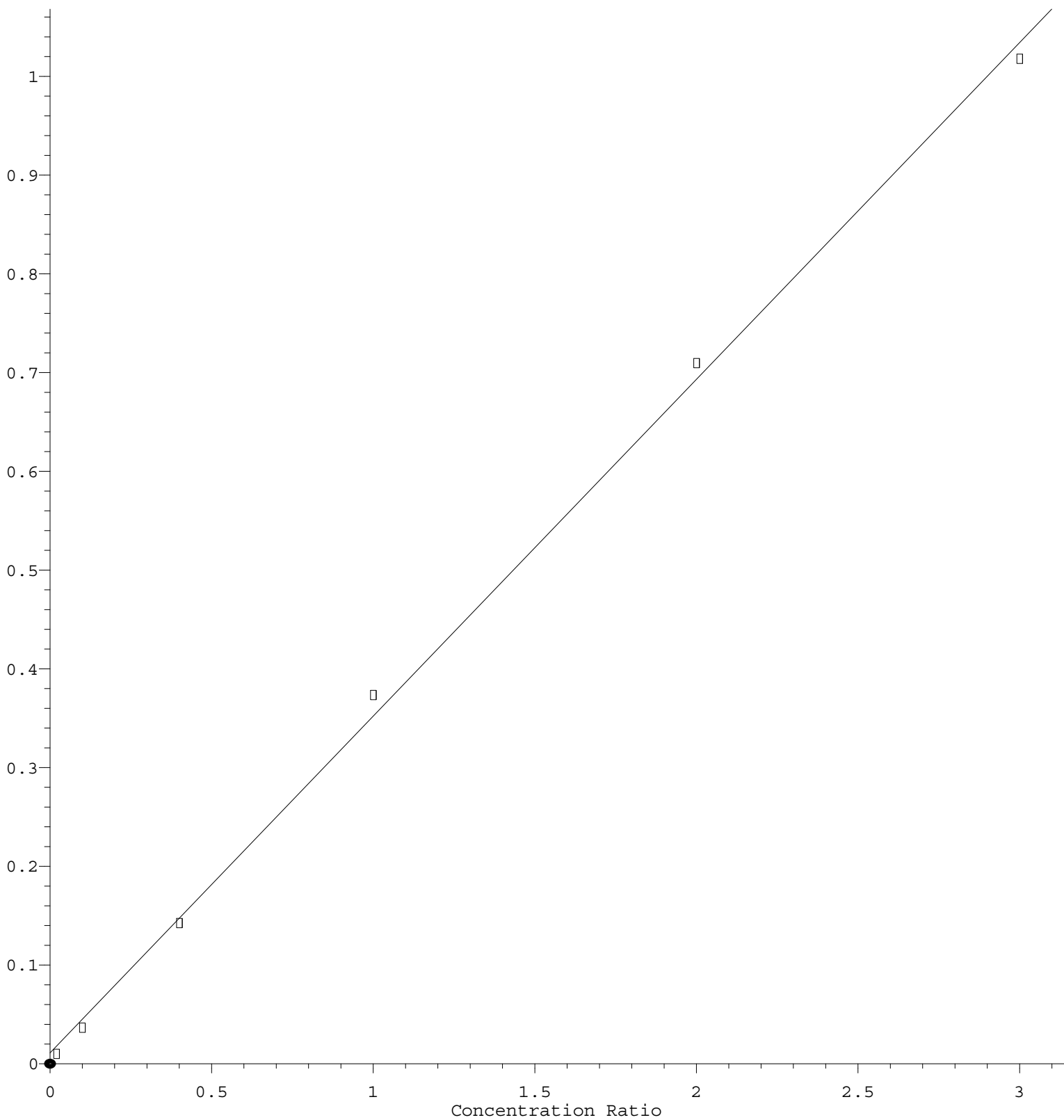
Coef of Det (r^2) = 0.997504 Curve Fit: Linear

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Tetrachloroethene

Response Ratio



$$\text{Response} = 3.413\text{e-}001 * \text{Amt} + 1.071\text{e-}002$$

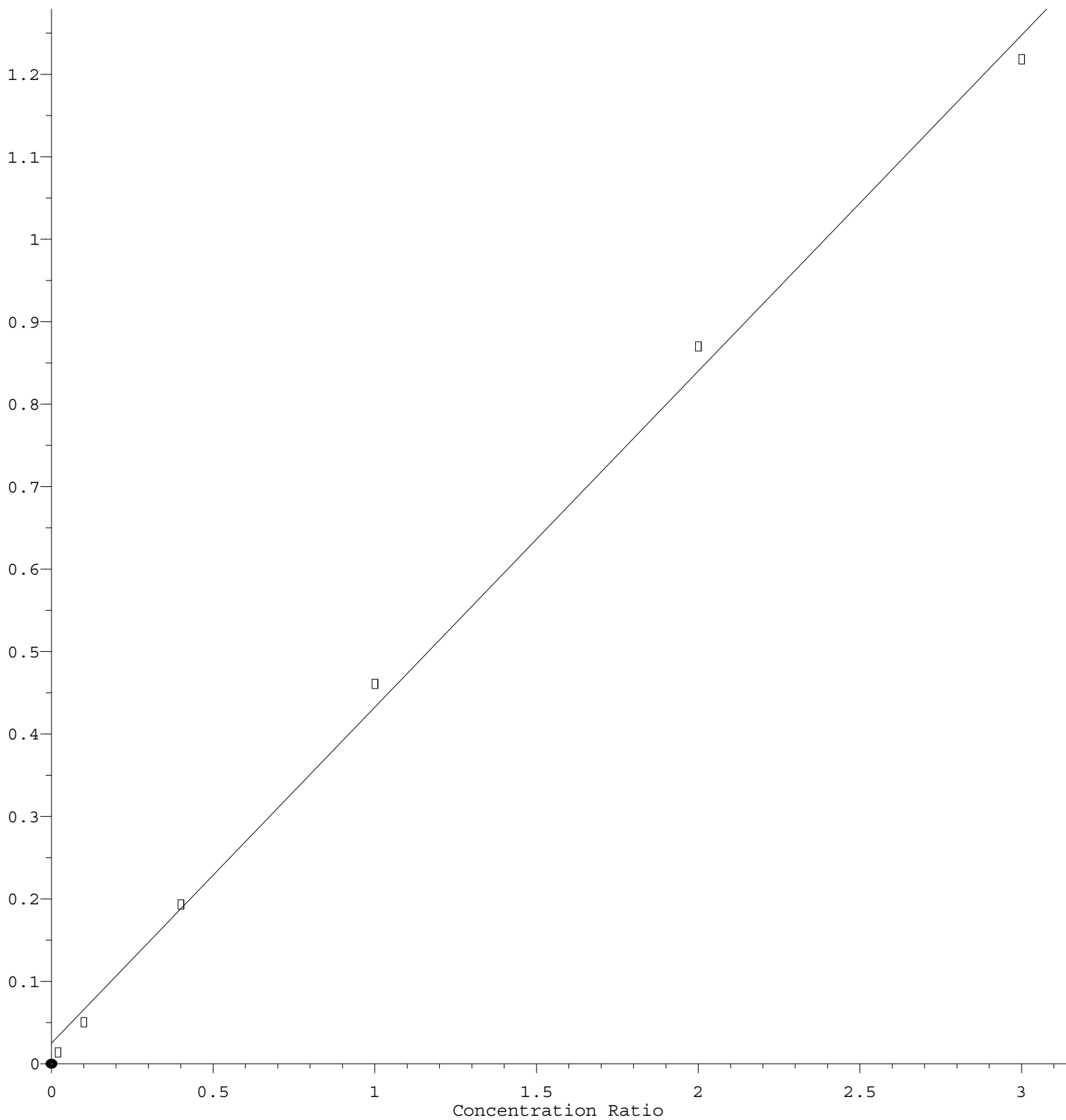
Coef of Det (r^2) = 0.998600 Curve Fit: Linear

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Ethyl Acetate

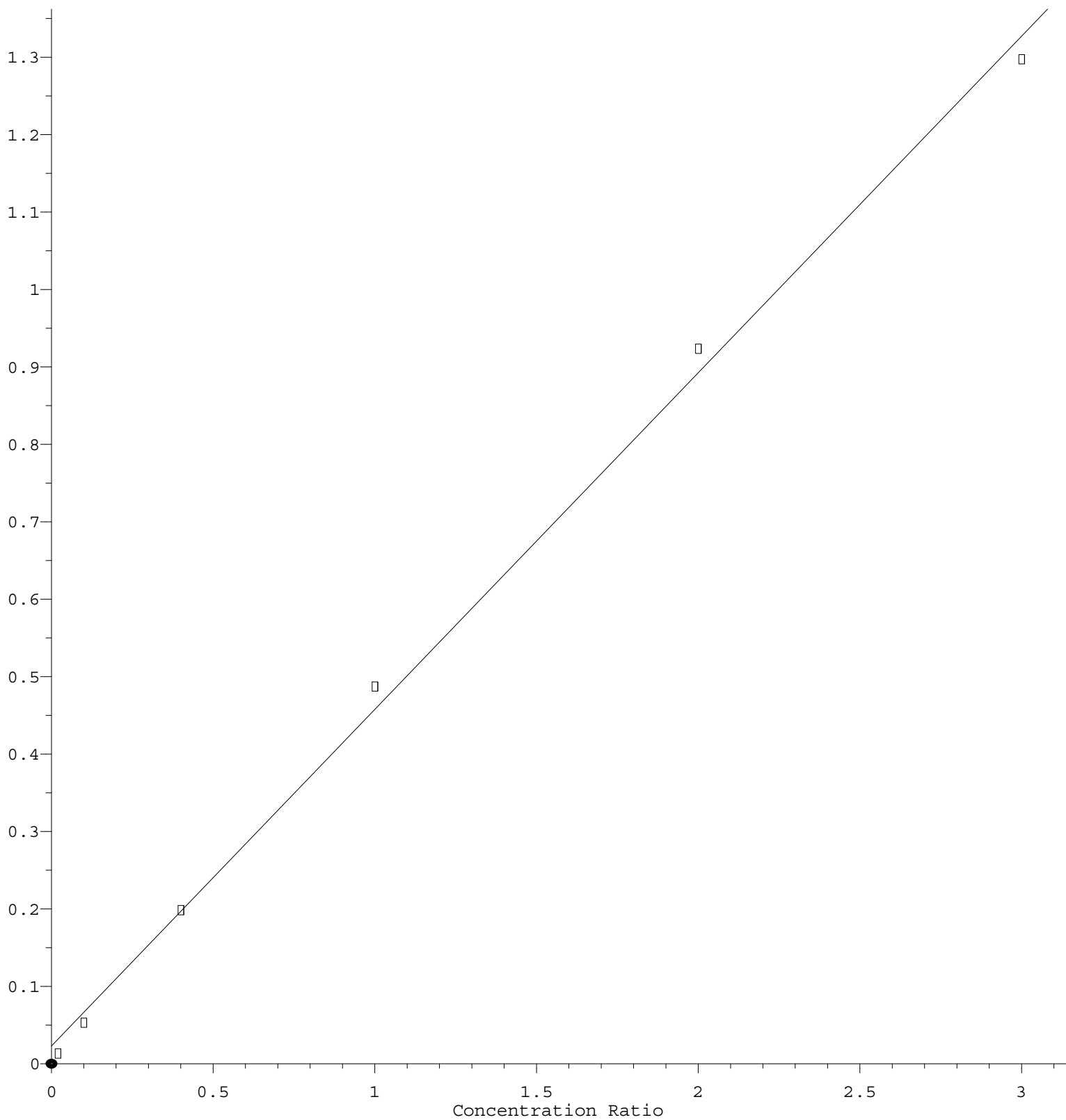
Response Ratio



Response = $4.076e-001 * Amt + 2.471e-002$
Coef of Det (r^2) = 0.997292 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA X\Method\82X011123W.M
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Methylene Chloride

Response Ratio



$$\text{Response} = 4.348\text{e-}001 * \text{Amt} + 2.294\text{e-}002$$

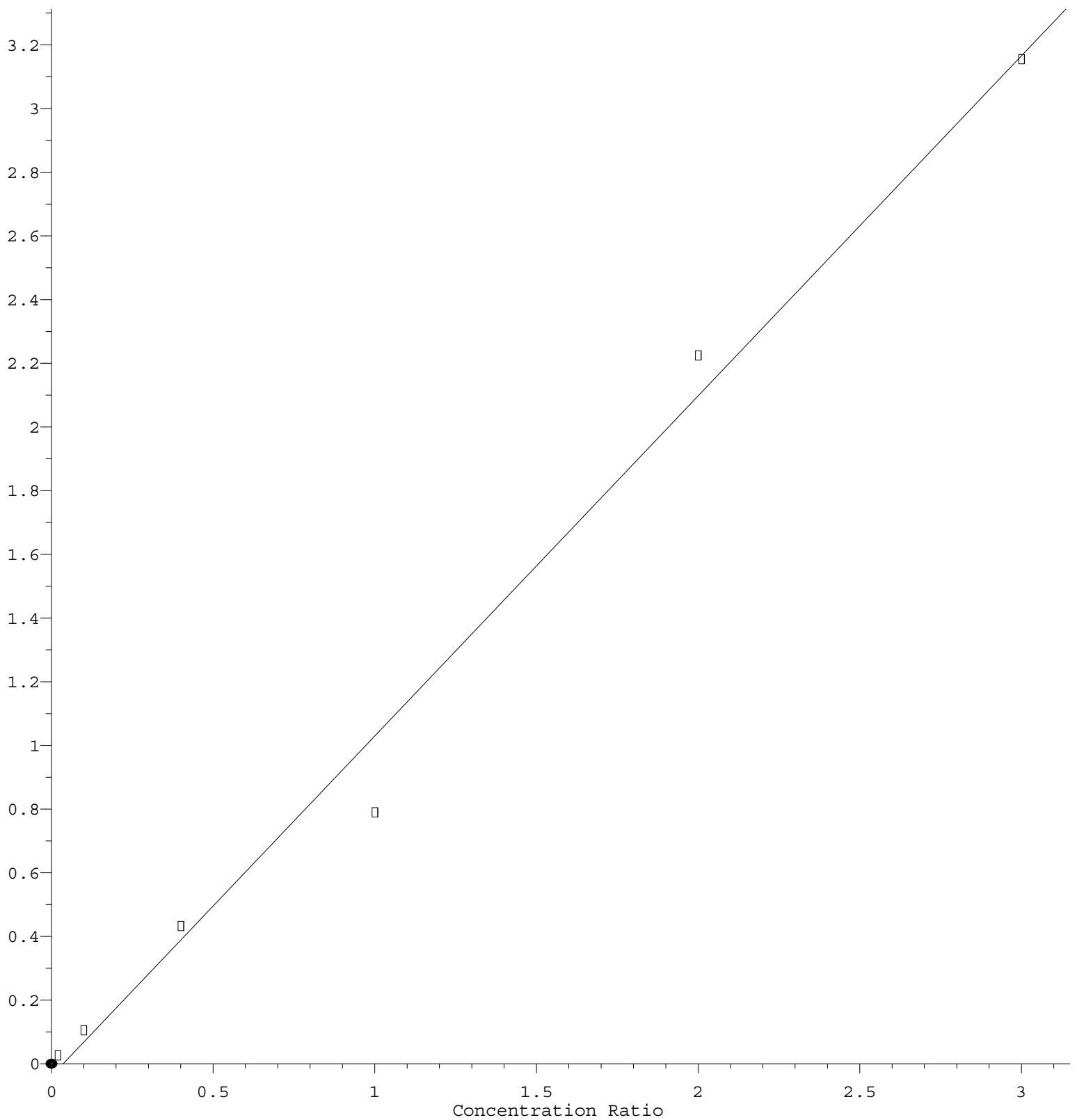
Coef of Det (r^2) = 0.997590 Curve Fit: Linear

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Carbon Disulfide

Response Ratio



$$\text{Response} = 1.069\text{e}+000 * \text{Amt} - 3.894\text{e}-002$$

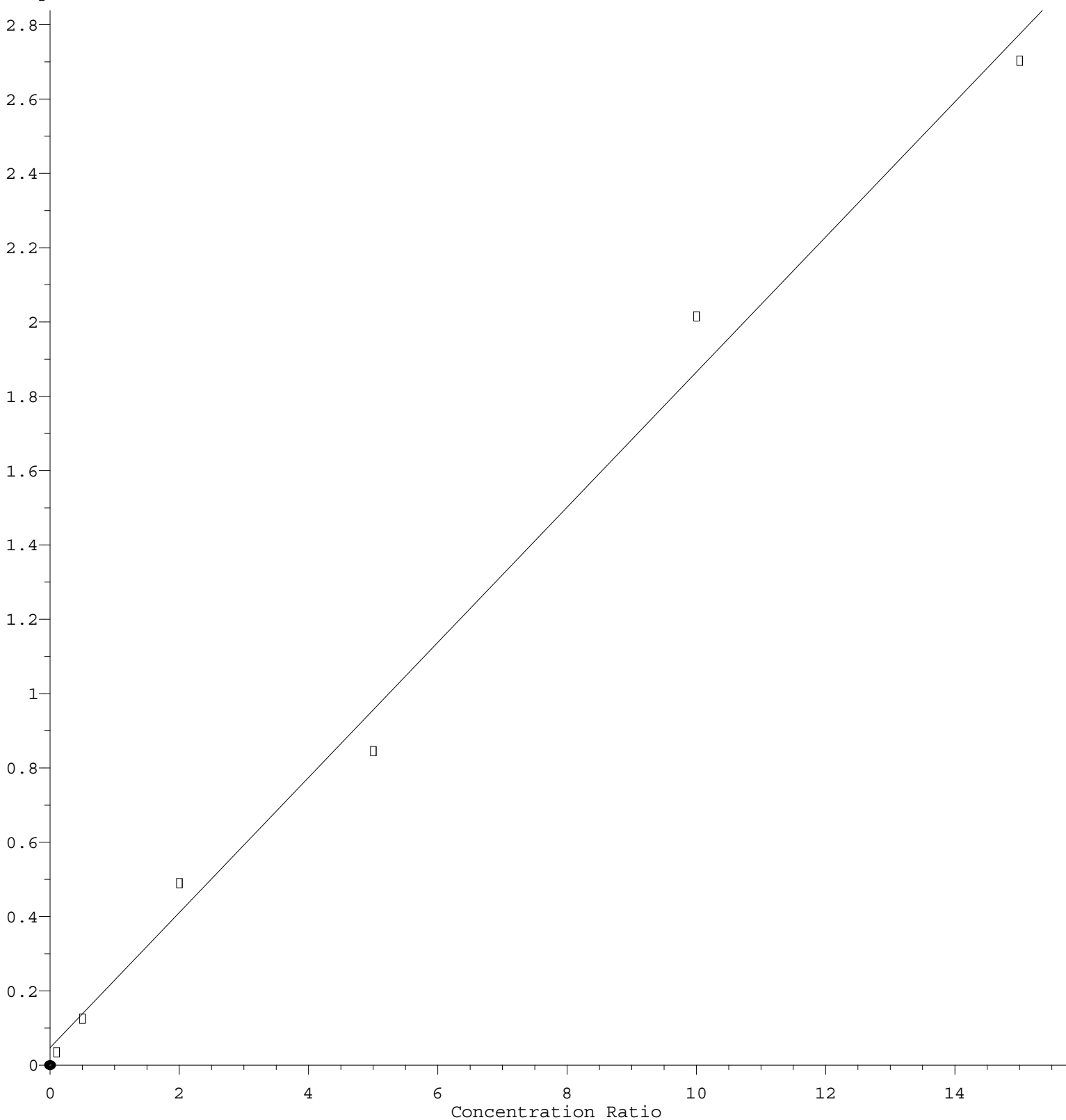
Coef of Det (r^2) = 0.990323 Curve Fit: Linear

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Acetone

Response Ratio



$$\text{Response} = 1.818\text{e-}001 * \text{Amt} + 4.740\text{e-}002$$

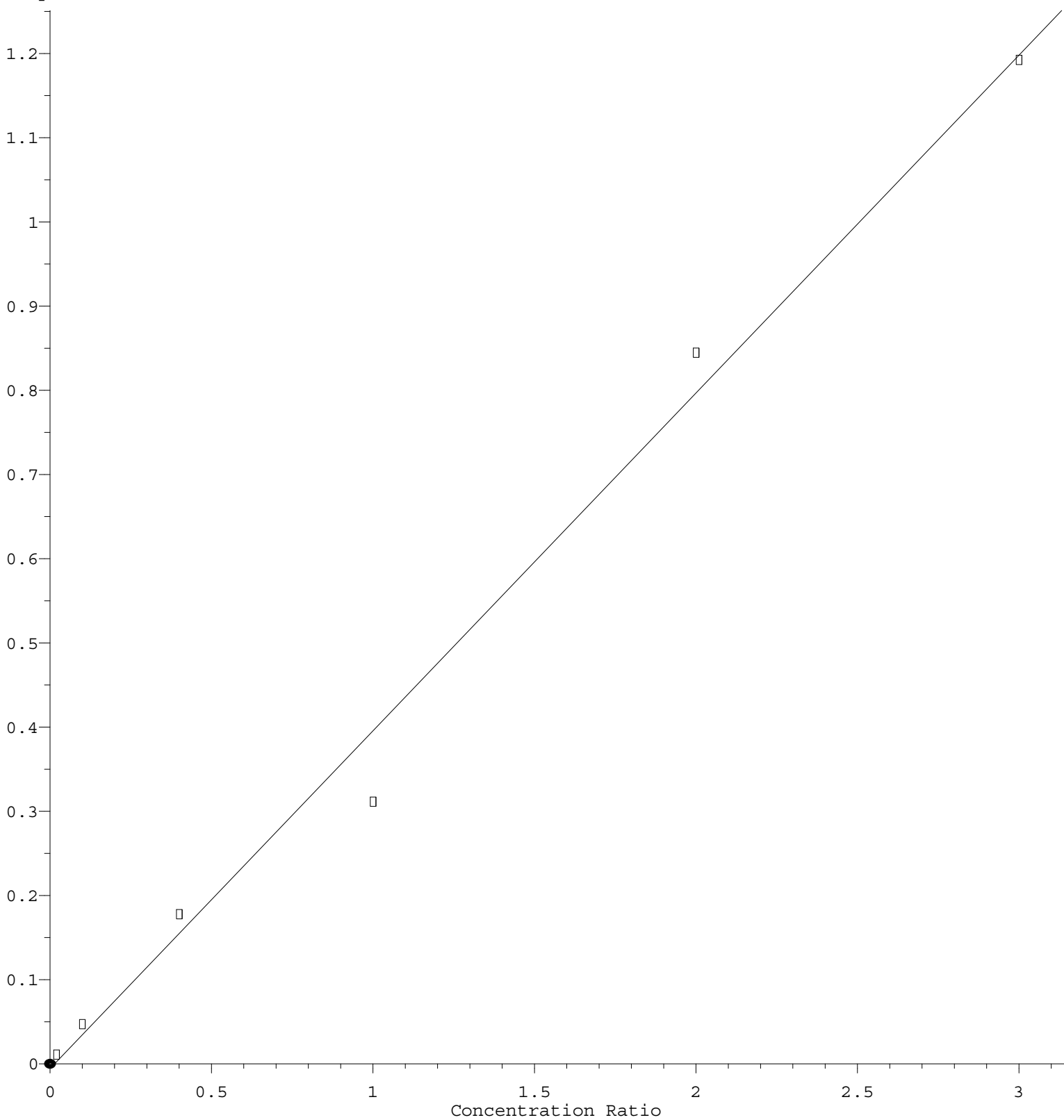
Coef of Det (r^2) = 0.992001 Curve Fit: Linear

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1,1,2-Trichlorotrifluoroethane

Response Ratio



$$\text{Response} = 4.016\text{e-}001 * \text{Amt} - 5.772\text{e-}003$$

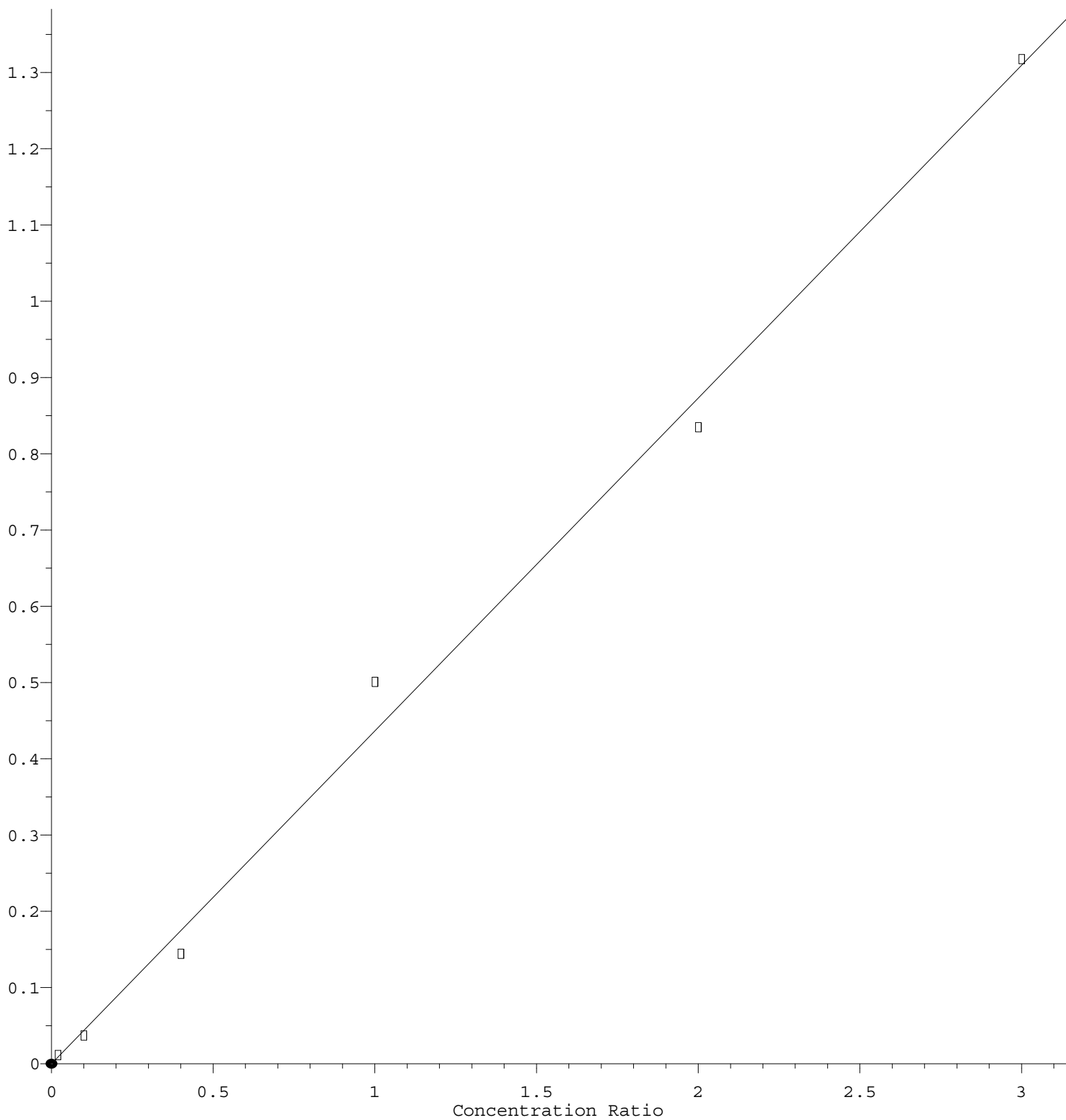
Coef of Det (r^2) = 0.991173 Curve Fit: Linear

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Chloromethane

Response Ratio



$$\text{Response} = 4.364\text{e-}001 * \text{Amt} + 3.482\text{e-}005$$

Coef of Det (r^2) = 0.995109 Curve Fit: Linear

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