

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
 Method File : 524U080524DW.M
 Title : METHOD 524.2 VOLATILES DRINKING WATER
 Last Update : Tue Aug 06 11:07:28 2024
 Response Via : Initial Calibration

Calibration Files

0.5 =VU060305.D 1 =VU060306.D 2 =VU060307.D 5 =VU060308.D 10 =VU060309.D 15 =VU060310.D

Compound		0.5	1	2	5	10	15	Avg	%RSD

1) i	Fluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.346	0.411	0.372	0.389	0.398	0.390	0.385	5.90
3) t	Chloromethane	0.461	0.469	0.427	0.427	0.432	0.422	0.440	4.54
4) Rt	Vinyl Chloride	0.422	0.462	0.412	0.442	0.451	0.449	0.440	4.27
5) T	Bromomethane	0.285	0.270	0.259	0.265	0.274	0.268	0.270	3.29
6) T	Chloroethane	0.276	0.284	0.243	0.262	0.272	0.260	0.266	5.47
7) T	Trichlorofluor...	0.511	0.550	0.505	0.534	0.548	0.534	0.530	3.50
8)	1,1,2-Trichlor...	0.274	0.303	0.279	0.294	0.297	0.284	0.289	3.87
9) Rt	1,1-Dichloroet...	0.297	0.314	0.281	0.302	0.300	0.301	0.299	3.53
10) t	Iodomethane		0.453	0.413	0.446	0.455	0.448	0.443	3.92
11) t	Allyl Chloride	0.409	0.417	0.384	0.413	0.420	0.416	0.410	3.27
12) t	Acrylonitrile	0.078	0.084	0.081	0.080	0.074	0.071	0.078	6.22
13) T	Acetone	0.119	0.109	0.076	0.098	0.072		0.095	21.58
14) T	Carbon Disulfide	1.015	1.064	0.964	1.007	1.030	1.002	1.014	3.24
15) RT	Methylene Chlo...	0.402	0.414	0.355	0.354	0.365	0.355	0.374	7.13
16) RT	trans-1,2-Dich...	0.330	0.321	0.307	0.319	0.330	0.315	0.320	2.74
17) t	1,1-Dichloroet...	0.604	0.657	0.594	0.615	0.621	0.604	0.616	3.62
18) T	2-Butanone	0.131	0.124	0.100	0.121	0.095	0.085	0.110	16.86
19)	Cyclohexane	0.490	0.567	0.502	0.538	0.553	0.535	0.531	5.56
20)	Methylcyclohexane	0.353	0.393	0.358	0.425	0.496	0.503	0.421	15.64
21) T	2,2-Dichloropr...	0.494	0.505	0.459	0.482	0.477	0.461	0.480	3.80
22) RT	cis-1,2-Dichlo...	0.347	0.349	0.323	0.348	0.353	0.338	0.343	3.16
23) t	Diethyl Ether	0.236	0.259	0.236	0.247	0.241	0.238	0.243	3.65
24) t	tert-Butyl Alc...		0.036	0.032	0.032	0.027	0.025	0.030	13.31
25) t	Methyl tert-Bu...	0.714	0.775	0.723	0.749	0.730	0.713	0.734	3.24
26) t	Bromochloromet...	0.148	0.152	0.140	0.145	0.147	0.140	0.145	3.20
27) t	Chloroform	0.592	0.656	0.580	0.602	0.601	0.585	0.603	4.57
28) RT	1,1,1-Trichlor...	0.473	0.542	0.482	0.510	0.504	0.493	0.501	4.92
29) T	1,1-Dichloropr...	0.416	0.411	0.374	0.392	0.411	0.403	0.401	3.91
30) RT	Carbon Tetrach...	0.380	0.434	0.394	0.410	0.419	0.411	0.408	4.63
31) t	Isopropyl Ether	0.895	0.943	0.845	0.906	0.915	0.899	0.900	3.55
32)	Ethyl-t-butyl ...	0.835	0.918	0.838	0.886	0.880	0.865	0.870	3.60
33)	Tert-Amyl meth...	0.542	0.632	0.552	0.632	0.660	0.688	0.618	9.49
34) t	Propionitrile	0.031	0.036	0.032	0.033	0.028	0.027	0.031	10.98
35) RT	Benzene	1.174	1.247	1.159	1.258	1.305	1.274	1.236	4.68
36) RT	1,2-Dichloroet...	0.325	0.372	0.341	0.346	0.345	0.332	0.343	4.73
37) RT	Trichloroethene	0.297	0.310	0.286	0.306	0.320	0.316	0.306	4.11
38) Rt	1,2-Dichloropr...	0.318	0.328	0.319	0.342	0.353	0.347	0.334	4.42
39) t	Methacrylonitrile	0.125	0.123	0.112	0.114	0.104	0.102	0.113	8.25
40) t	Methyl acrylate	0.202	0.238	0.198	0.194	0.182	0.178	0.199	10.74
41) t	Tetrahydrofuran	0.072	0.075	0.059	0.060	0.053	0.052	0.062	15.68
42) t	1-Chlorobutane	0.540	0.563	0.537	0.554	0.570	0.554	0.553	2.33
43) T	Dibromomethane	0.157	0.187	0.158	0.175	0.171	0.167	0.169	6.65
44) T	Bromodichlorom...	0.392	0.417	0.388	0.414	0.417	0.408	0.406	3.14
45) T	4-Methyl-2-Pen...	0.140	0.155	0.149	0.174	0.168	0.168	0.159	8.36
46) t	t-1,4-Dichloro...	0.070	0.094	0.087	0.095	0.094	0.094	0.089	10.87
47) t	Methyl methacr...	0.097	0.132	0.130	0.153	0.154	0.158	0.137	16.77
48) t	Ethyl methacry...	0.182	0.215	0.202	0.254	0.268	0.279	0.233	16.82
49) Rt	Toluene	0.546	0.627	0.618	0.736	0.797	0.788	0.685	14.98
50) T	t-1,3-Dichloro...	0.277	0.320	0.319	0.357	0.369	0.369	0.335	10.88
51) T	cis-1,3-Dichlo...	0.347	0.410	0.380	0.411	0.437	0.435	0.403	8.58
52) RT	1,1,2-Trichlor...	0.232	0.263	0.253	0.253	0.249	0.240	0.248	4.39
53) t	1,3-Dichloropr...	0.353	0.401	0.384	0.417	0.414	0.409	0.396	6.15
54) t	2-Hexanone	0.118	0.121	0.107	0.143	0.128	0.122	0.123	9.61
55) t	Dibromochlorom...	0.254	0.287	0.257	0.280	0.283	0.274	0.272	5.14
56) T	1,2-Dibromoethane	0.220	0.225	0.207	0.232	0.230	0.222	0.223	3.95
57) S	4-Bromofluorob...	0.289	0.303	0.336	0.363	0.381	0.372	0.341	11.17

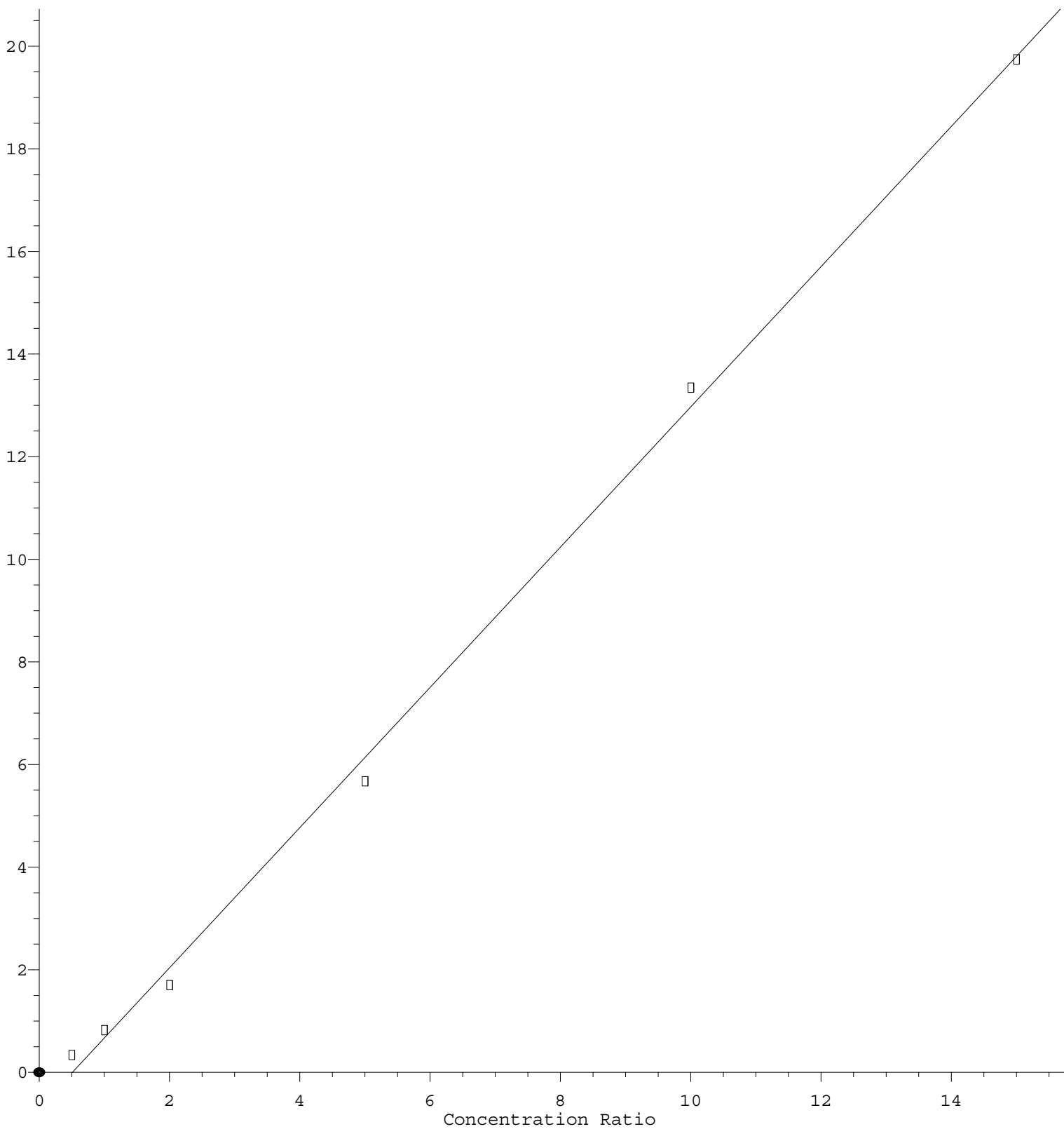
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58)	RT	Tetrachloroethene	0.238	0.287	0.256	0.285	0.290	0.284	0.273	7.76
59)	Rt	Chlorobenzene	0.620	0.732	0.676	0.772	0.824	0.829	0.742	11.23
60)	T	1,1,1,2-Tetrac...	0.273	0.311	0.273	0.295	0.303	0.300	0.292	5.50
61)	t	Pentachloroethane	0.237	0.252	0.235	0.258	0.265	0.251	0.250	4.72
62)	t	Hexachloroethane	0.207	0.252	0.227	0.246	0.260	0.257	0.241	8.58
63)	Rt	Ethyl Benzene	0.860	0.990	0.987	1.237	1.434	1.468	1.163	21.91
64)	RT	m/p-Xylenes	0.320	0.375	0.391	0.522	0.588	0.580	0.463	24.89
65)	RT	o-Xylene	0.313	0.376	0.387	0.488	0.547	0.552	0.444	22.33
66)	RT	Styrene	0.485	0.606	0.626	0.839	0.951	0.943	0.742	26.36
67)	t	Bromoform	0.142	0.165	0.156	0.170	0.161	0.163	0.160	6.22
68)	S	1,2-Dichlorobe...	0.321	0.345	0.371	0.388	0.393	0.402	0.370	8.51
69)	T	Isopropylbenzene	0.792	0.963	0.979	1.230	1.413	1.428	1.134	23.13
70)	T	1,1,2,2-Tetrac...	0.324	0.331	0.329	0.345	0.333	0.320	0.330	2.59
71)	T	1,2,3-Trichlor...	0.210	0.255	0.229	0.261	0.269	0.245	0.245	9.00
72)	t	Bromobenzene	0.250	0.285	0.281	0.327	0.345	0.339	0.305	12.49
73)	t	n-propylbenzene	0.215	0.255	0.267	0.356	0.413	0.407	0.319	26.45
74)	t	2-Chlorotoluene	0.199	0.260	0.271	0.338	0.368	0.354	0.298	22.08
75)	t	1,3,5-Trimethy...	0.653	0.775	0.853	1.140	1.281	1.261	0.994	26.96
76)	t	4-Chlorotoluene	0.211	0.261	0.275	0.354	0.387	0.371	0.310	22.88
77)	t	tert-Butylbenzene	0.671	0.859	0.850	1.046	1.187	1.203	0.969	21.79
78)	t	1,2,4-Trimethy...	0.587	0.812	0.881	1.166	1.327	1.321	1.016	29.72
79)	t	sec-Butylbenzene	0.822	1.062	1.142	1.457	1.653	1.636	1.295	26.12
80)		Nitrobenzene	0.011	0.015	0.015	0.015	0.015	0.016	0.015	10.57
81)	t	p-Isopropyltol...	0.646	0.848	0.875	1.179	1.377	1.366	1.049	28.85
82)	t	1,3-Dichlorobe...	0.491	0.608	0.609	0.677	0.728	0.702	0.636	13.53
83)	Rt	1,4-Dichlorobe...	0.461	0.599	0.593	0.692	0.737	0.704	0.631	16.10
84)	t	n-Butylbenzene	0.673	0.821	0.850	1.134	1.334	1.316	1.021	27.30
85)	Rt	1,2-Dichlorobe...	0.491	0.593	0.570	0.663	0.693	0.680	0.615	12.70
86)	t	1,2-Dibromo-3-...	0.047	0.046	0.047	0.052	0.049	0.048	0.048	4.25
87)	Rt	1,2,4-Trichlor...	0.282	0.319	0.319	0.361	0.409	0.420	0.352	15.65
88)	t	Hexachlorobuta...	0.199	0.225	0.203	0.230	0.257	0.249	0.227	10.30
89)	t	Naphthalene	0.501	0.508	0.629	0.700	0.772	0.622		19.08
90)	t	1,2,3-Trichlor...	0.279	0.310	0.298	0.366	0.403	0.403	0.343	15.97

(#) = Out of Range

n-Butylbenzene

Response Ratio



$$\text{Response} = 1.367\text{e}+000 * \text{Amt} - 6.975\text{e}-001$$

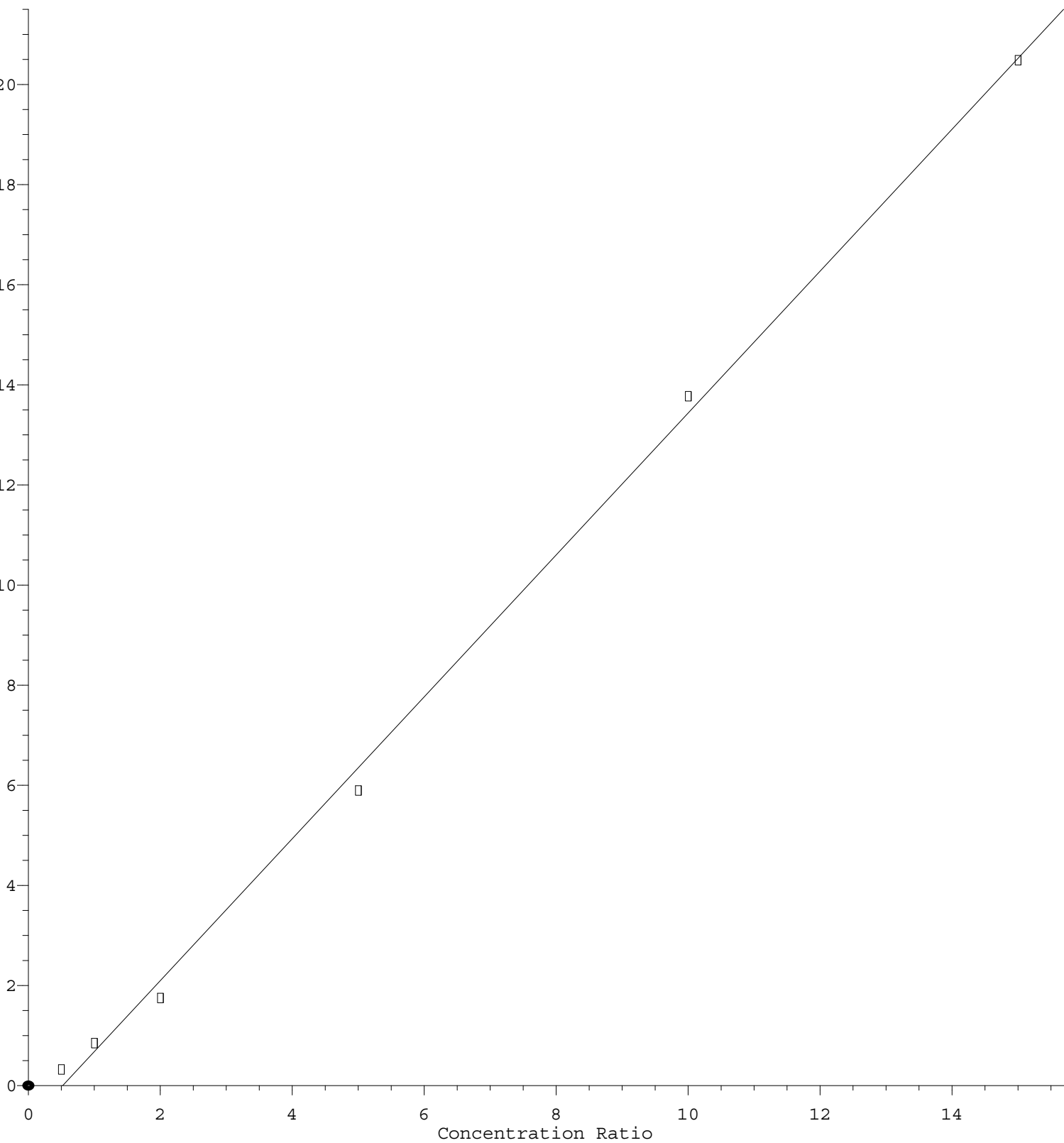
Coef of Det (r^2) = 0.998034 Curve Fit: Linear

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p-Isopropyltoluene

Response Ratio



$$\text{Response} = 1.418\text{e}+000 * \text{Amt} - 7.368\text{e}-001$$

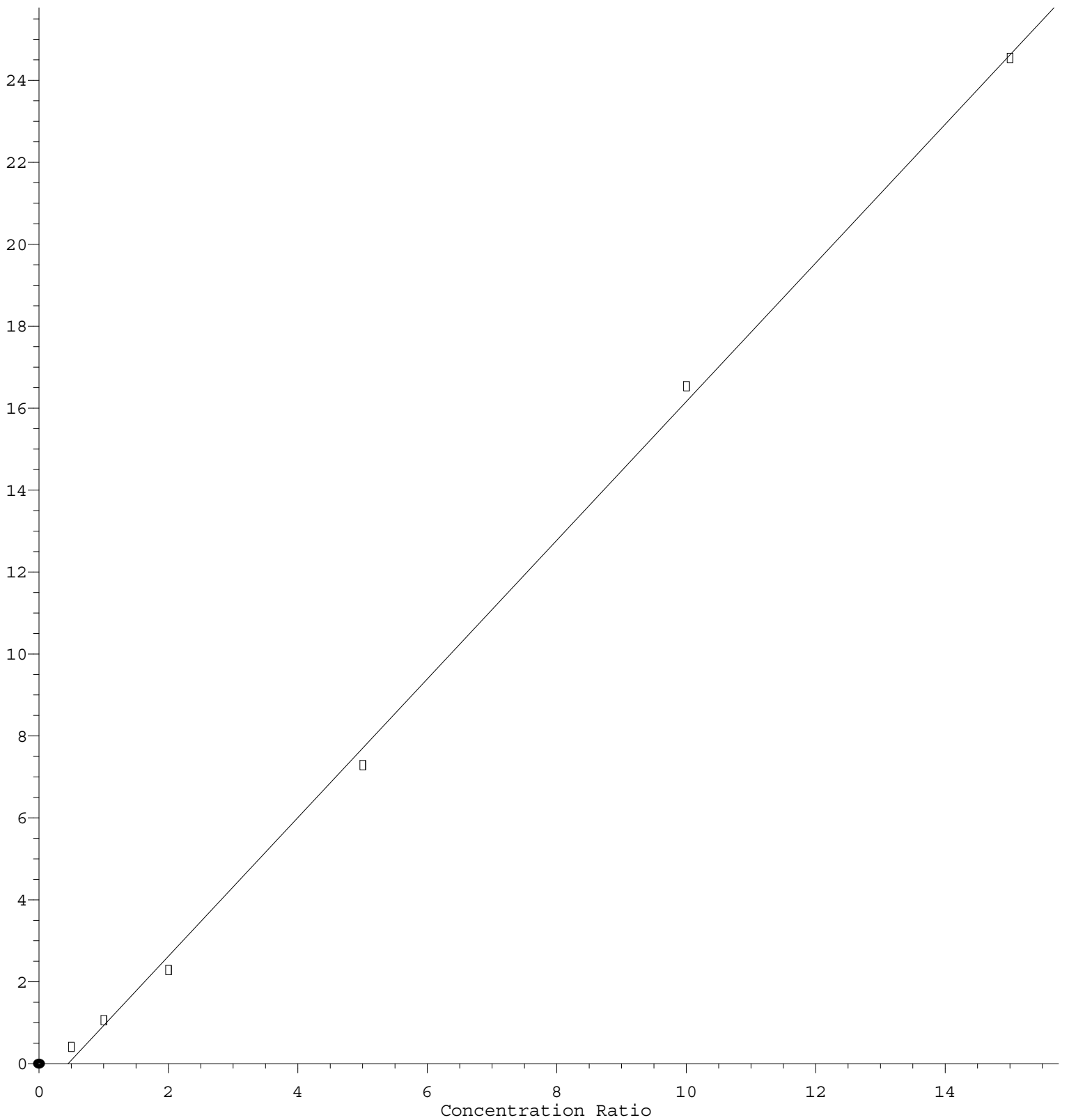
Coef of Det (r^2) = 0.998251 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

Calibration Table Last Updated: Tue Aug 06 11:07:28 2024

sec-Butylbenzene

Response Ratio



$$\text{Response} = 1.693\text{e}+000 * \text{Amt} - 7.658\text{e}-001$$

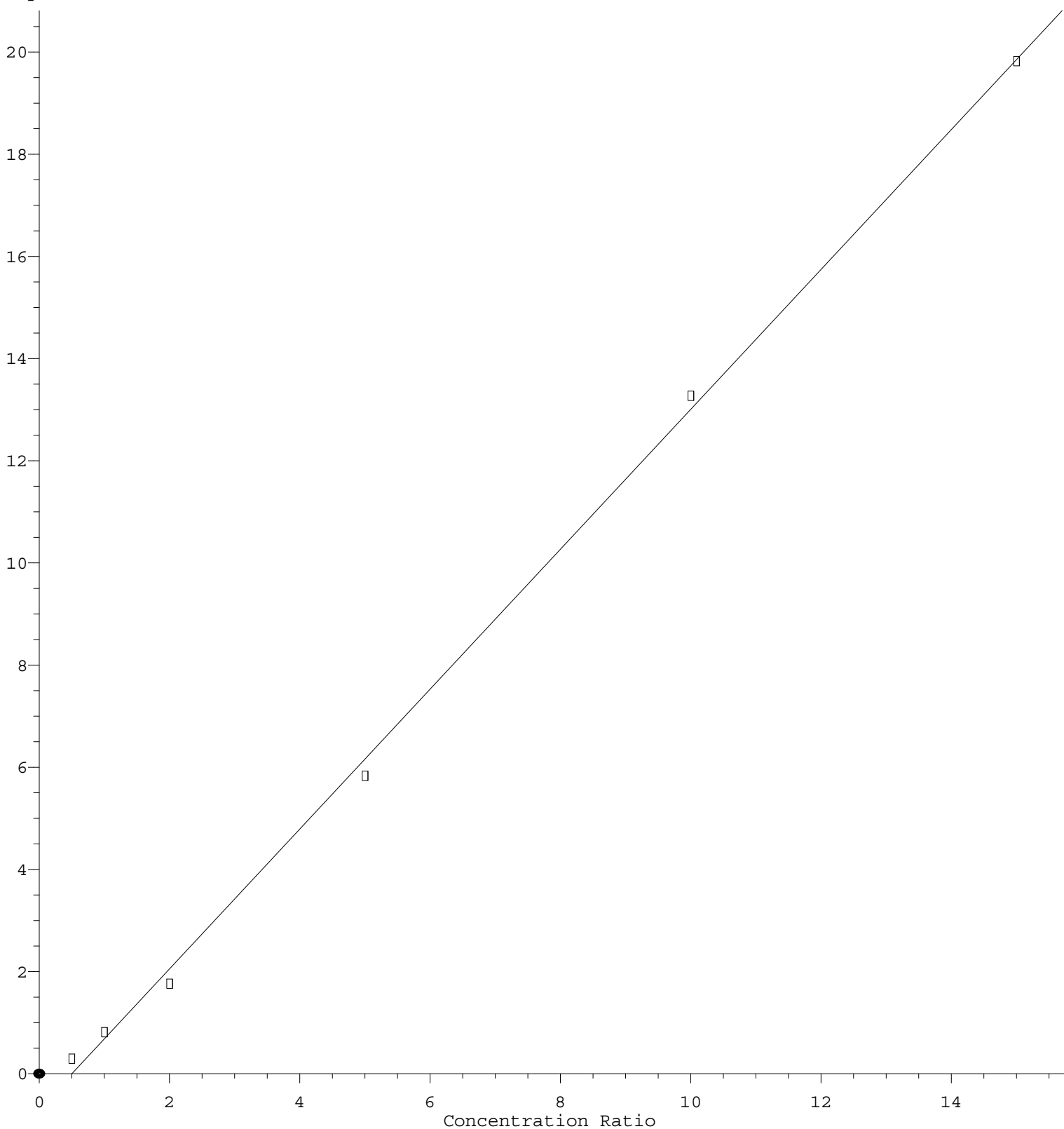
Coef of Det (r^2) = 0.998850 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

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1,2,4-Trimethylbenzene

Response Ratio



$$\text{Response} = 1.369\text{e}+000 * \text{Amt} - 6.800\text{e}-001$$

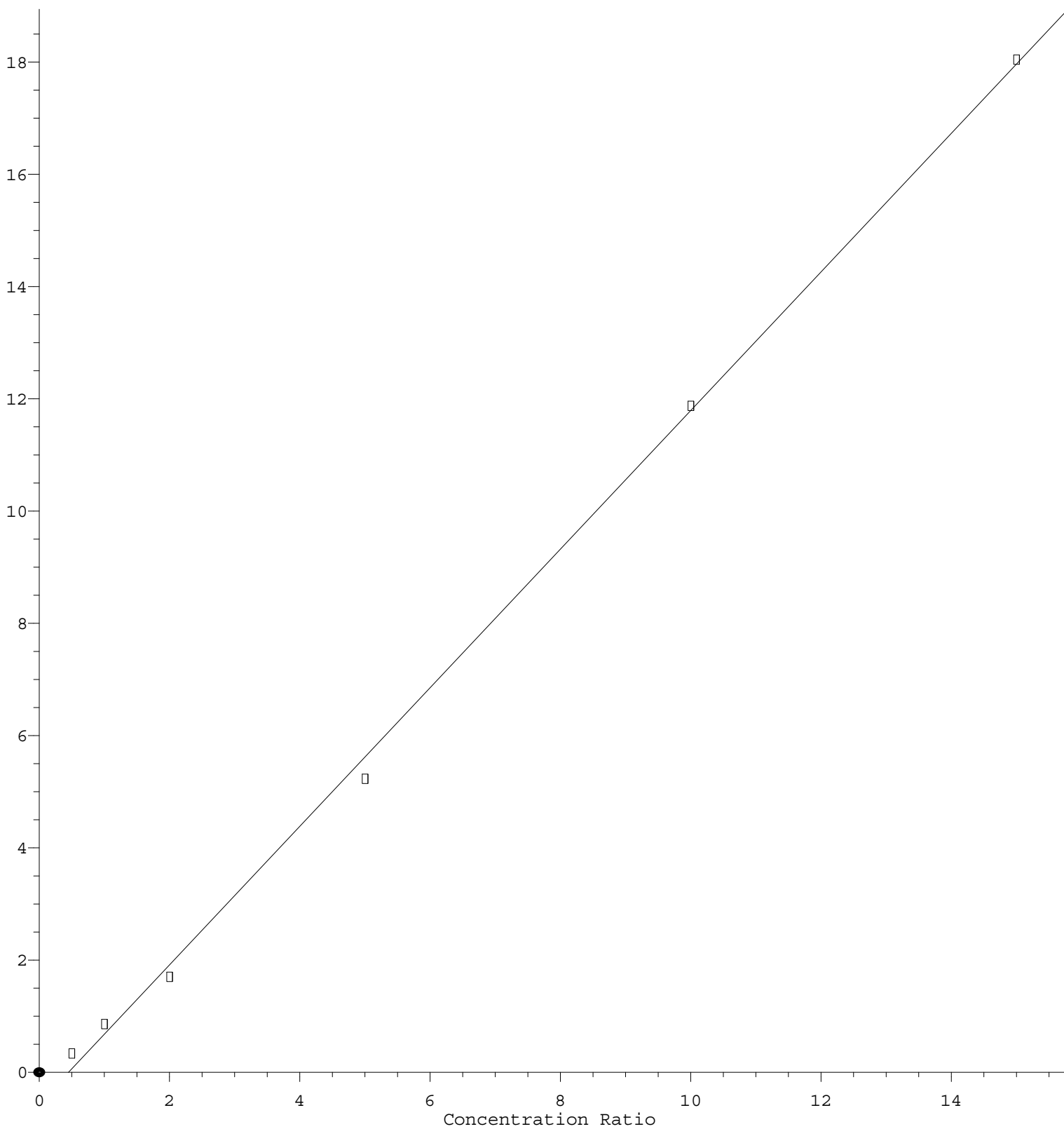
Coef of Det (r^2) = 0.998841 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

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tert-Butylbenzene

Response Ratio



$$\text{Response} = 1.234\text{e}+000 * \text{Amt} - 5.494\text{e}-001$$

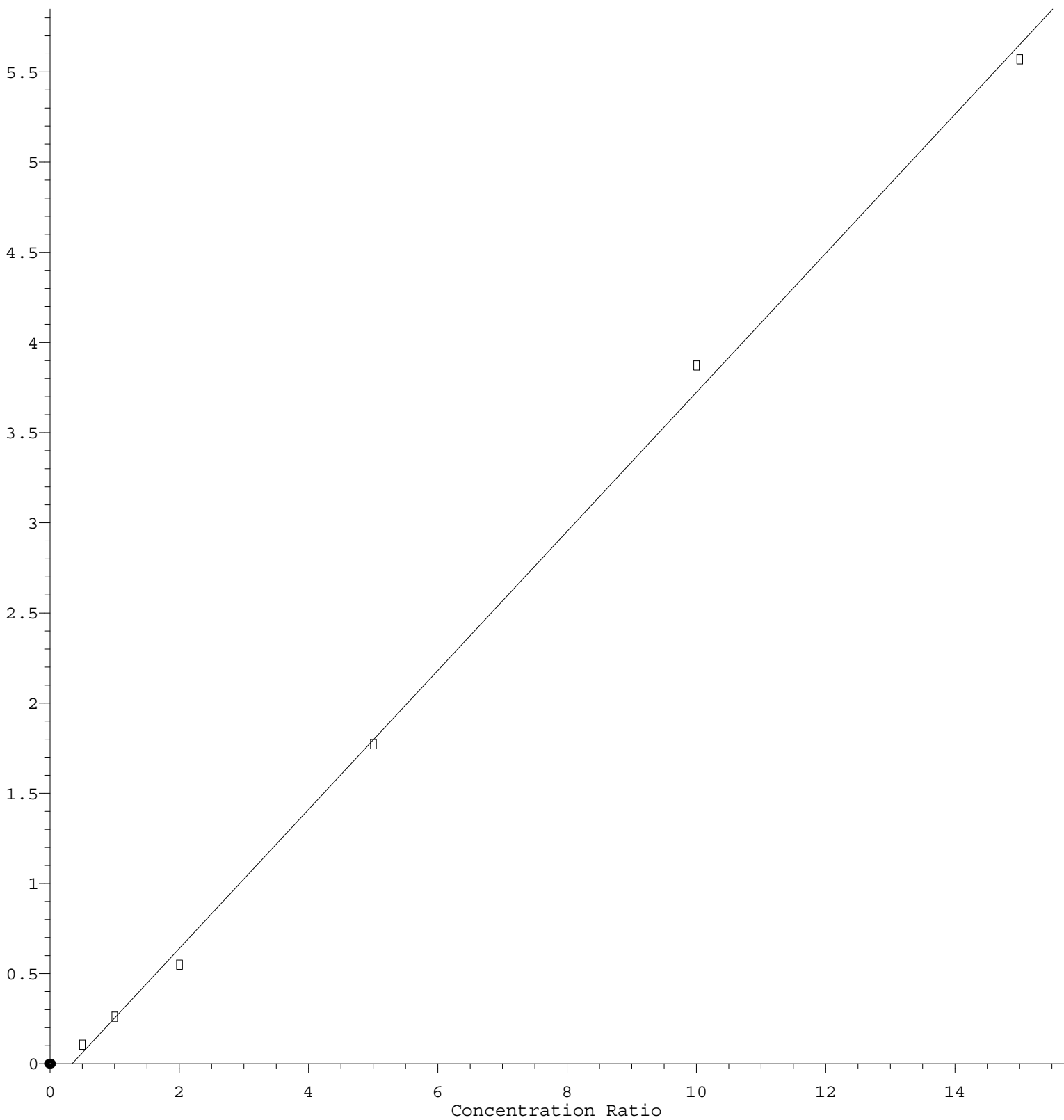
Coef of Det (r^2) = 0.998764 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

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4-Chlorotoluene

Response Ratio



$$\text{Response} = 3.853\text{e-}001 * \text{Amt} - 1.298\text{e-}001$$

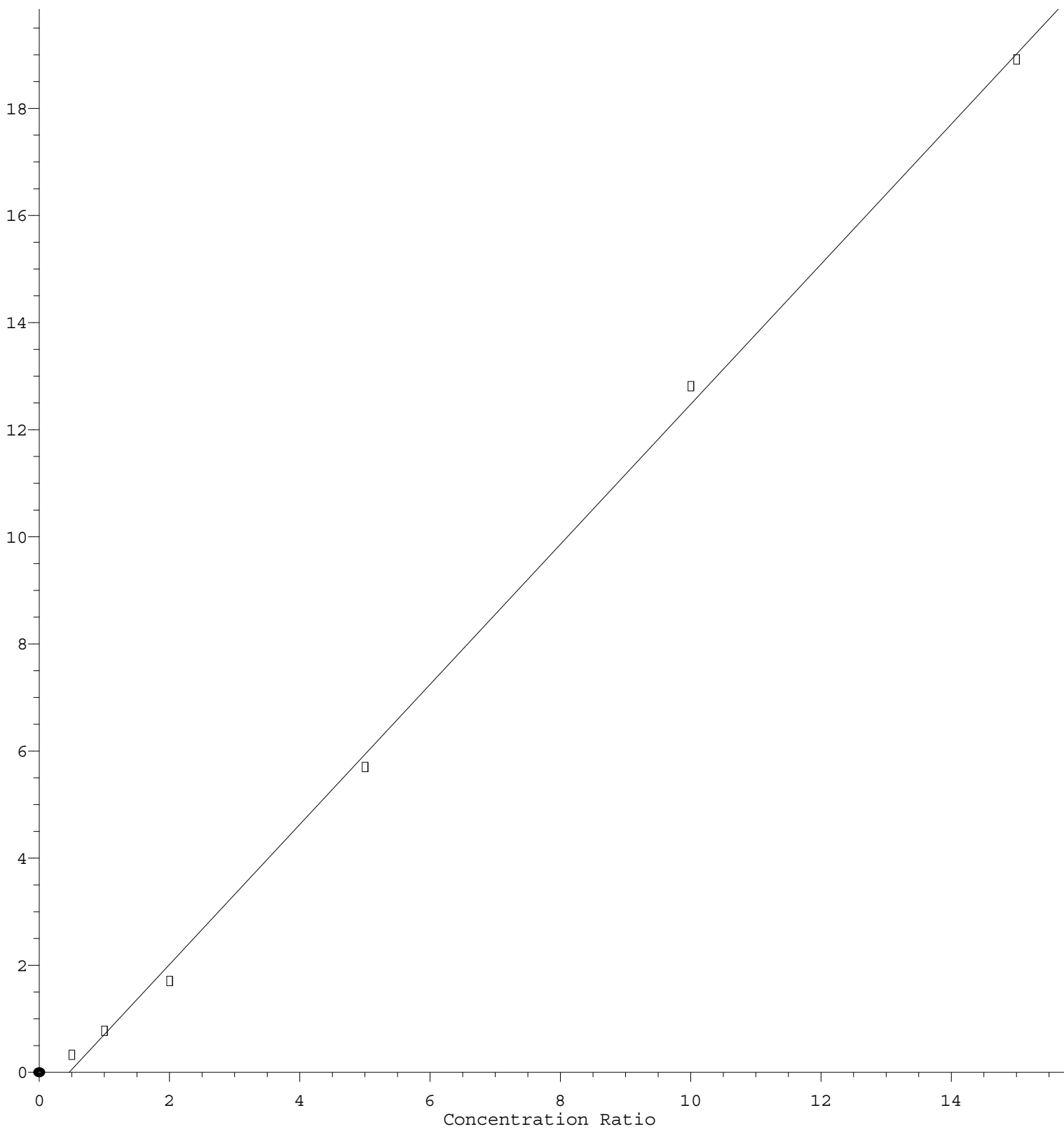
Coef of Det (r^2) = 0.998419 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

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1,3,5-Trimethylbenzene

Response Ratio



$$\text{Response} = 1.308\text{e}+000 * \text{Amt} - 5.980\text{e}-001$$

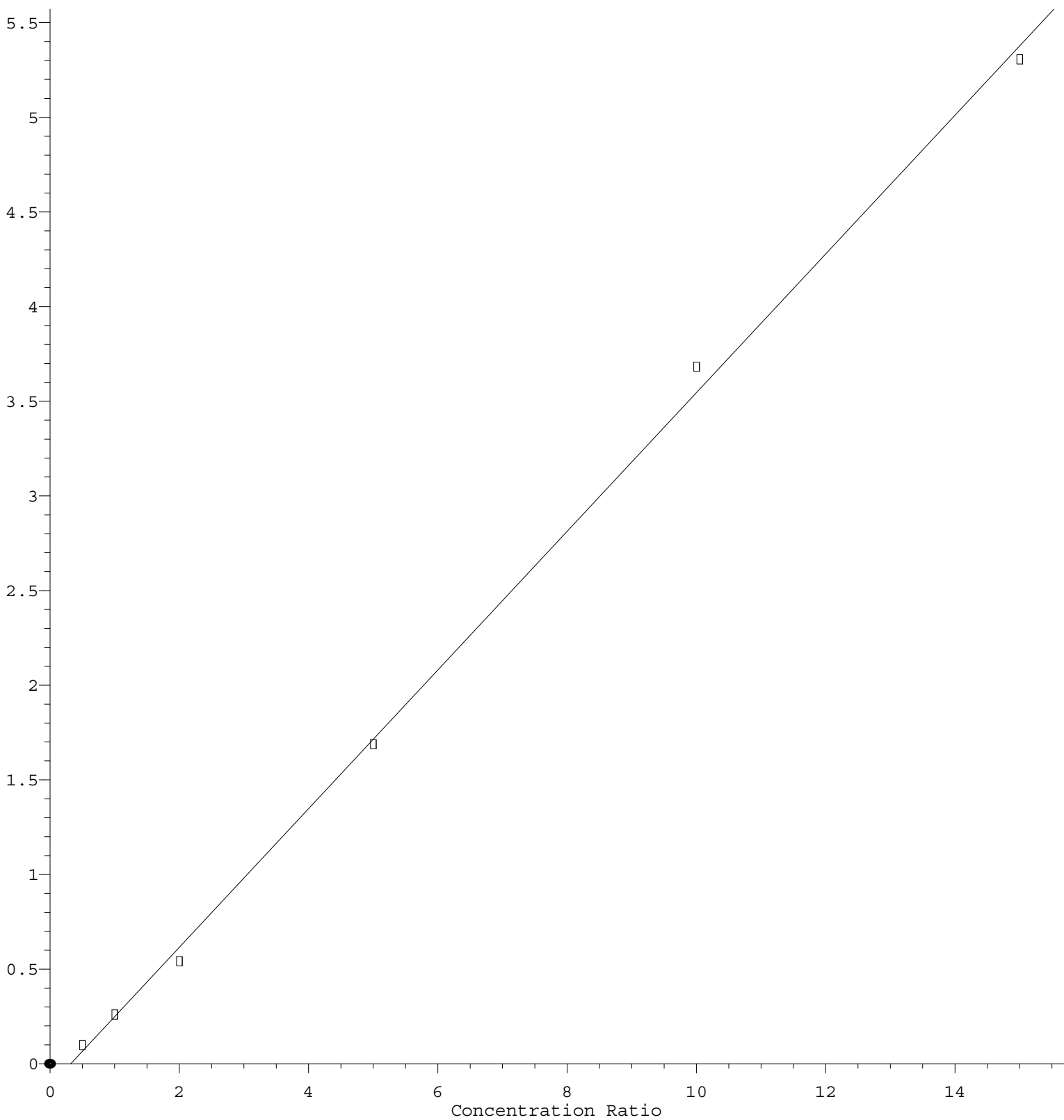
Coef of Det (r^2) = 0.998772 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

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2-Chlorotoluene

Response Ratio



$$\text{Response} = 3.662\text{e-}001 * \text{Amt} - 1.154\text{e-}001$$

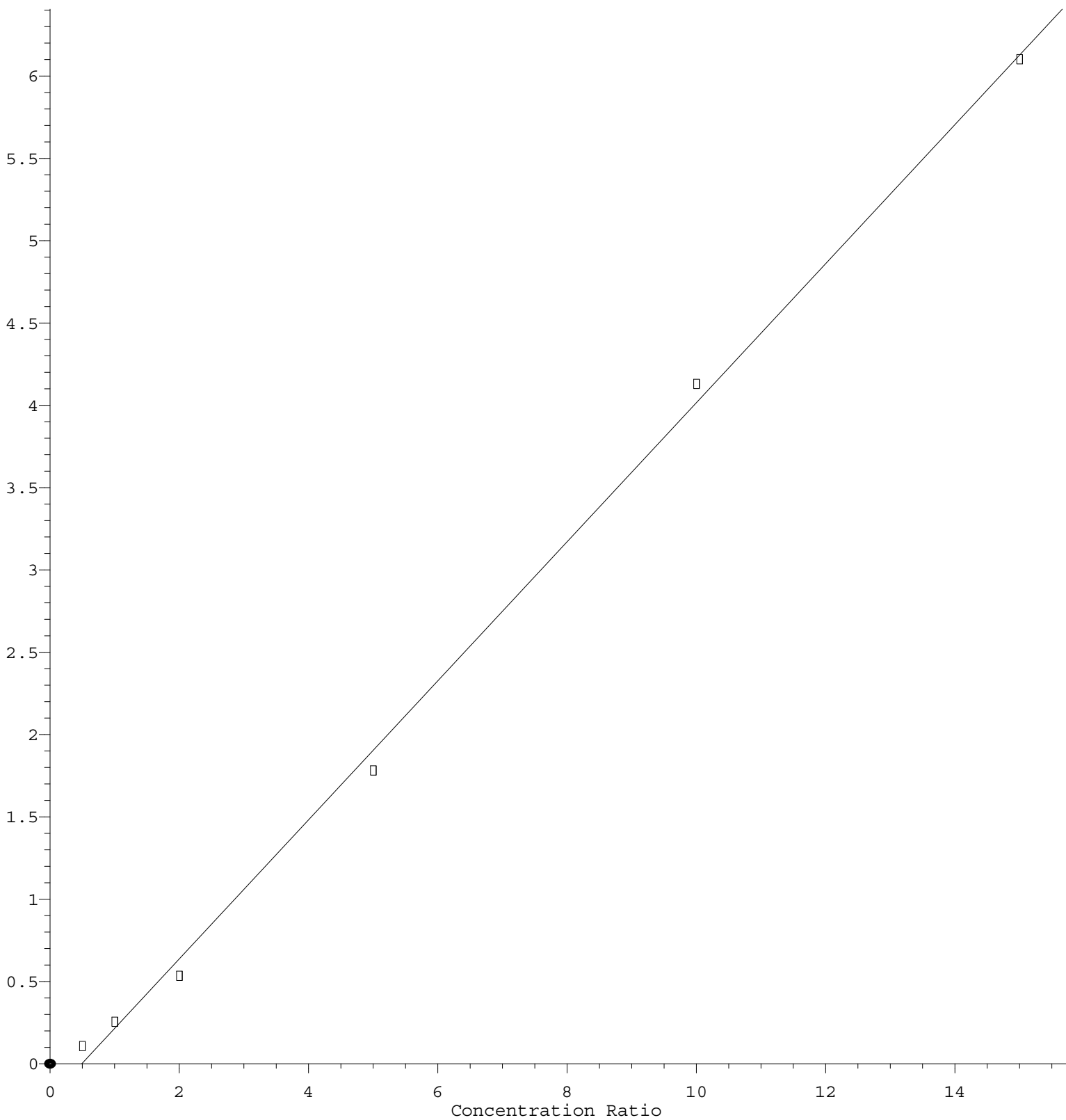
Coef of Det (r^2) = 0.998629 Curve Fit: Linear

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n-propylbenzene

Response Ratio



$$\text{Response} = 4.223\text{e-}001 * \text{Amt} - 2.061\text{e-}001$$

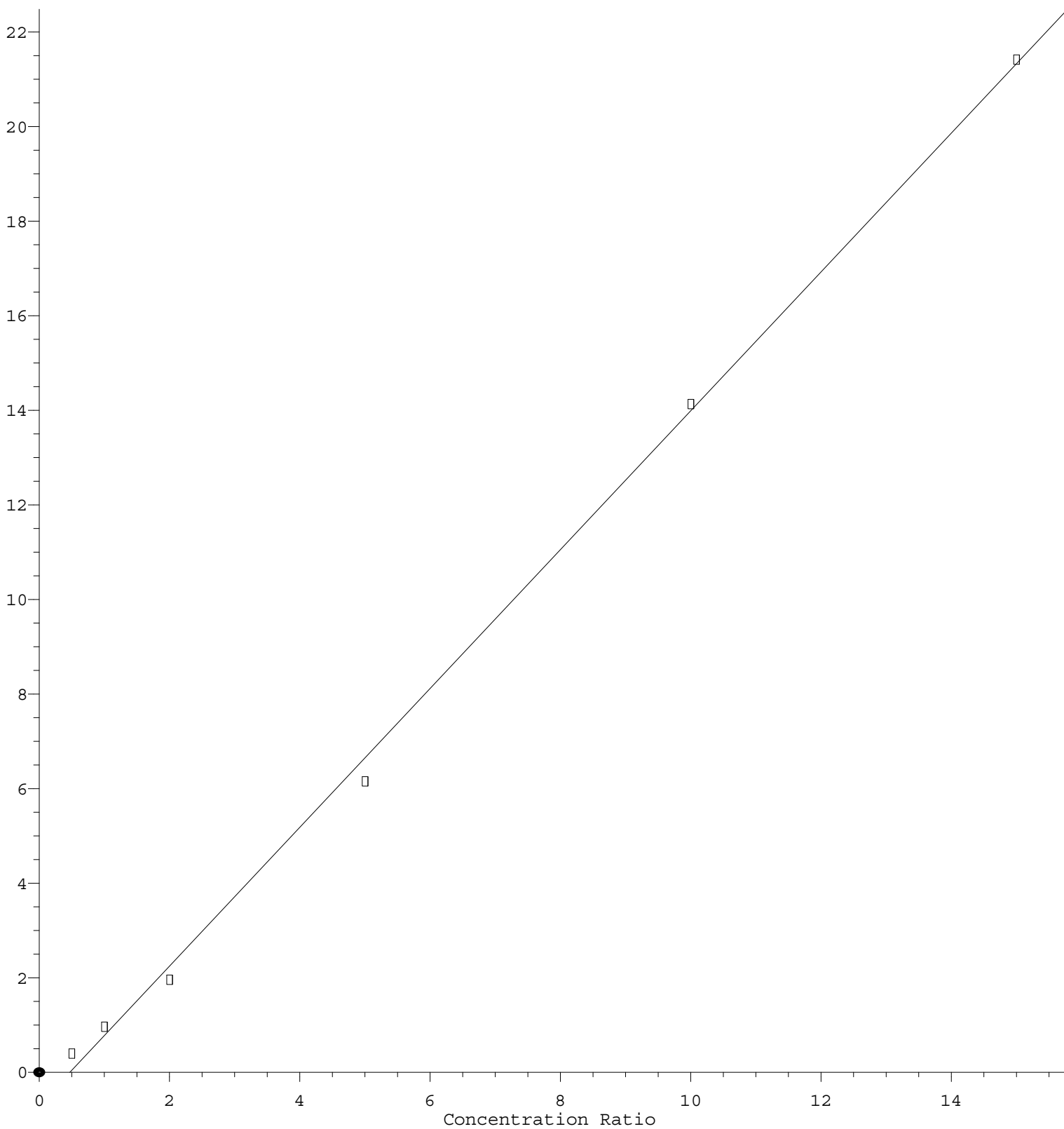
Coef of Det (r^2) = 0.998282 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

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Isopropylbenzene

Response Ratio



$$\text{Response} = 1.469\text{e}+000 * \text{Amt} - 6.973\text{e}-001$$

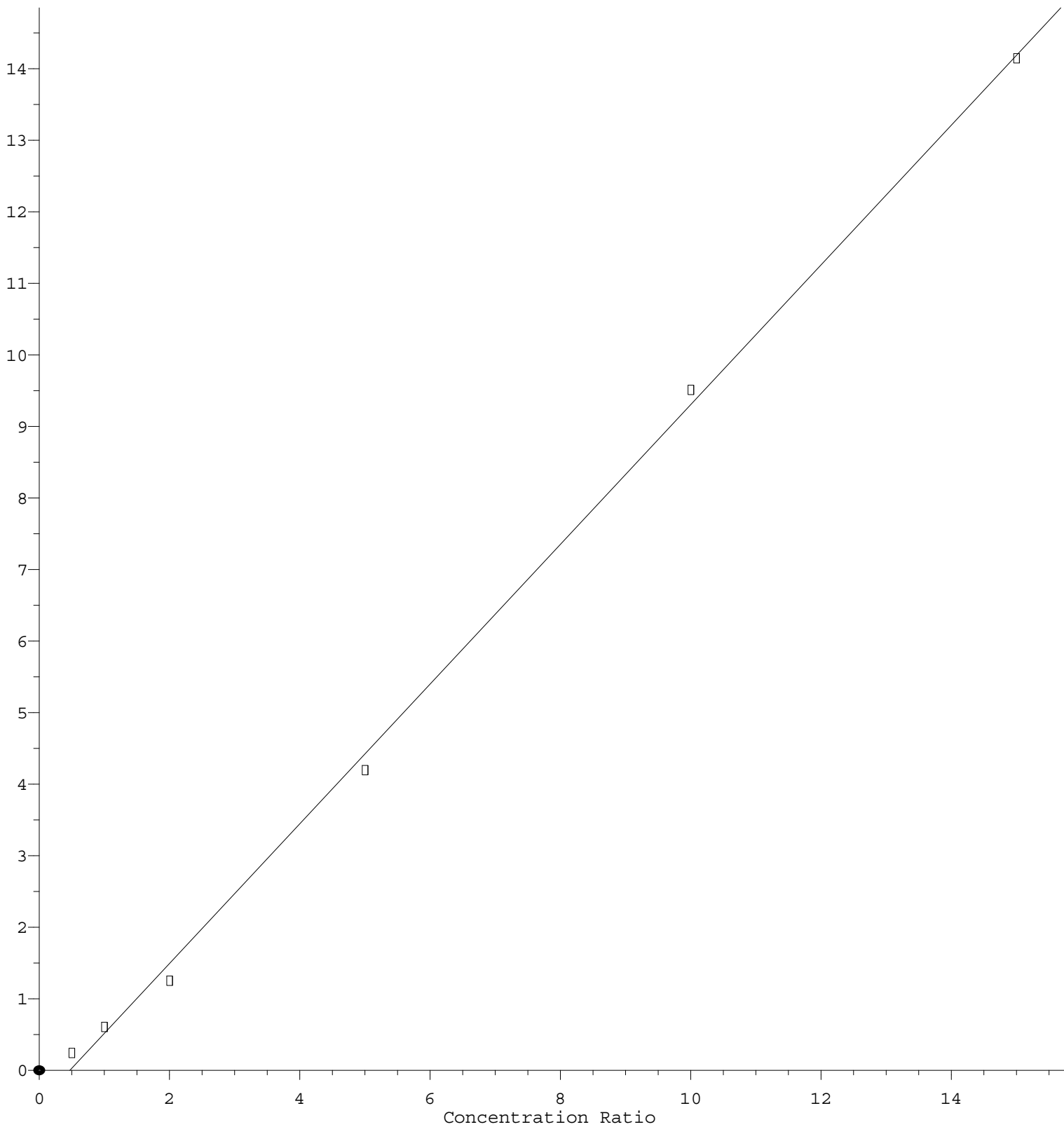
Coef of Det (r^2) = 0.998582 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA U\Method\524U080524DW.M

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Styrene

Response Ratio



$$\text{Response} = 9.764\text{e-}001 * \text{Amt} - 4.597\text{e-}001$$

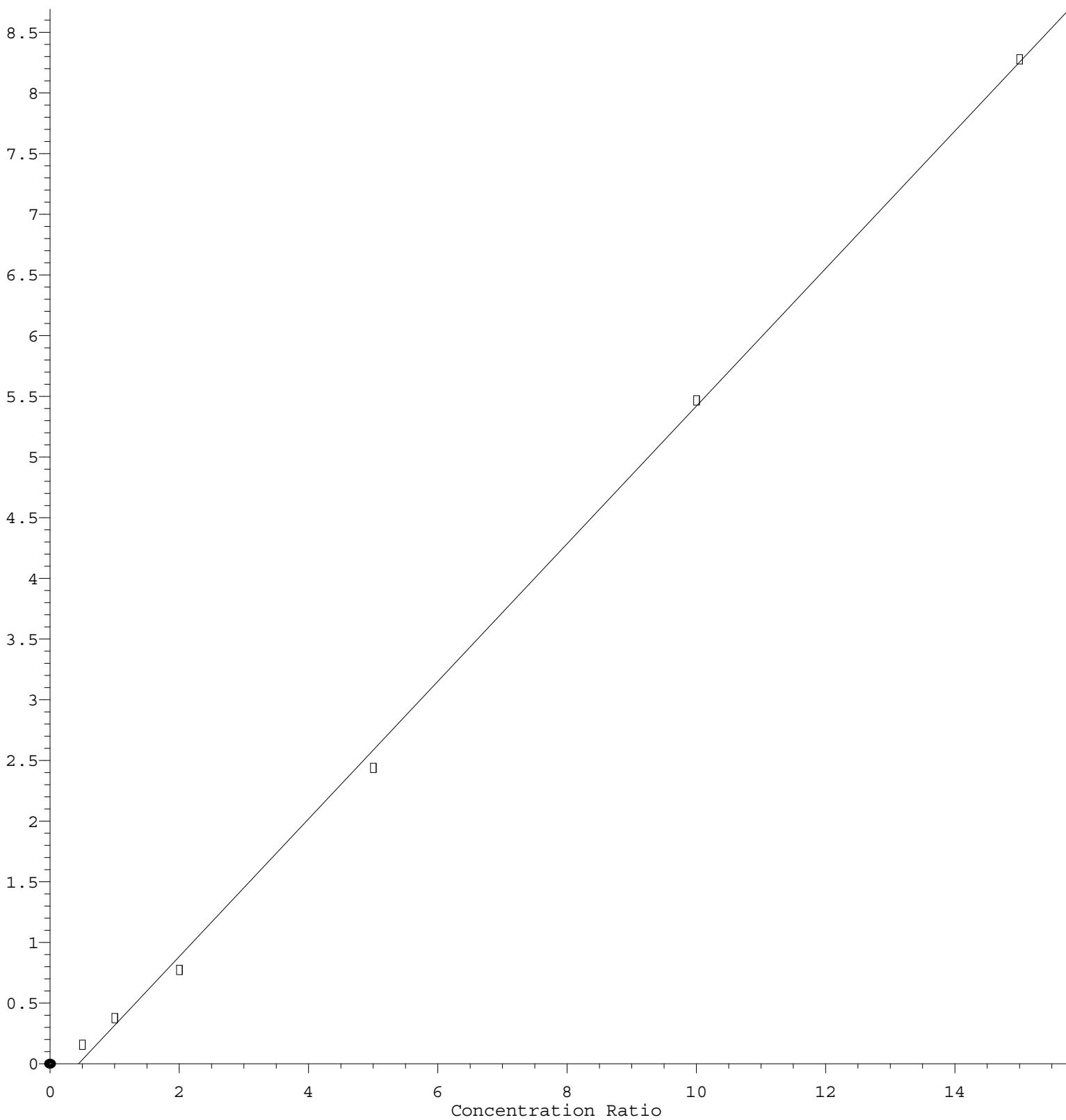
Coef of Det (r^2) = 0.998712 Curve Fit: Linear

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o-Xylene

Response Ratio



$$\text{Response} = 5.670\text{e-}001 * \text{Amt} - 2.512\text{e-}001$$

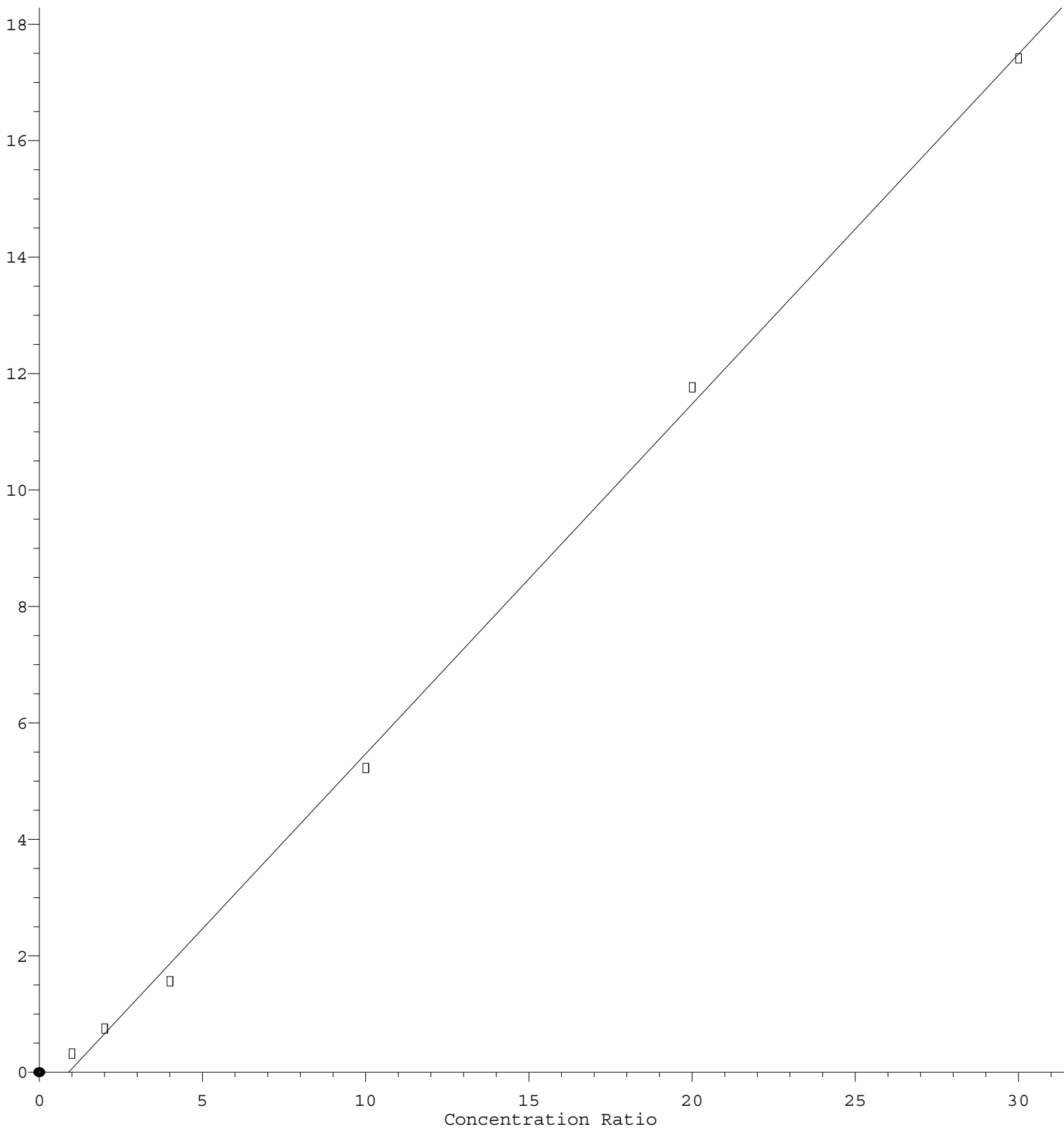
Coef of Det (r^2) = 0.998979 Curve Fit: Linear

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m/p-Xylenes

Response Ratio



$$\text{Response} = 6.010\text{e-}001 * \text{Amt} - 5.398\text{e-}001$$

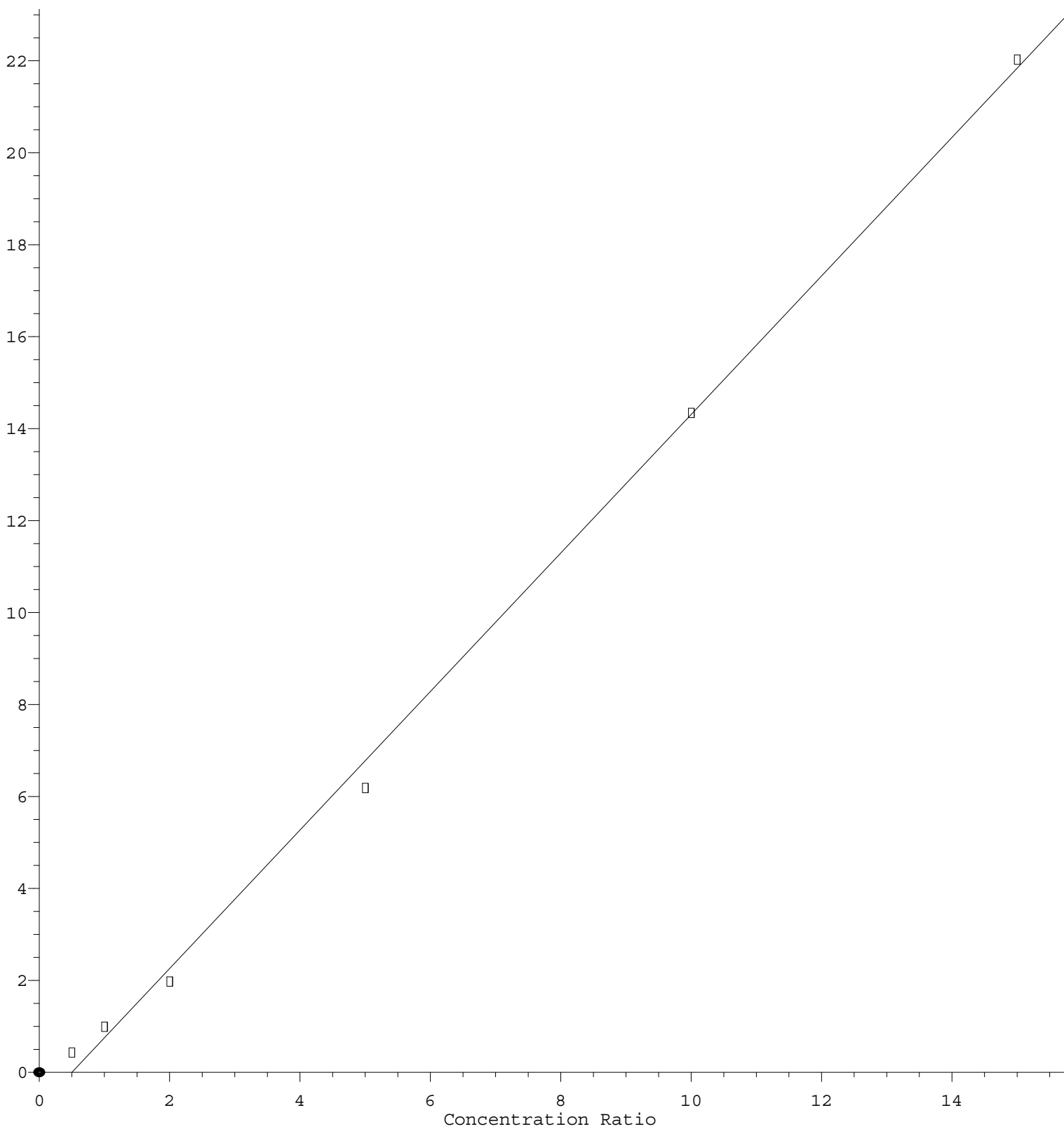
Coef of Det (r^2) = 0.998717 Curve Fit: Linear

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Ethyl Benzene

Response Ratio



$$\text{Response} = 1.506\text{e}+000 * \text{Amt} - 7.514\text{e}-001$$

Coef of Det (r^2) = 0.998142 Curve Fit: Linear

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