

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
 Method File : 82D022123S.M
 Title : SW846 8260
 Last Update : Tue Feb 21 16:26:04 2023
 Response Via : Initial Calibration

Calibration Files

10 =VD075375.D 5 =VD075374.D 20 =VD075376.D 50 =VD075377.D 100 =VD075378.D 150 =VD075379.D

Compound		10	5	20	50	100	150	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.604	0.587	0.630	0.504	0.518	0.511	0.559	9.76
3) P	Chloromethane	0.912	0.944	0.865	0.741	0.739	0.707	0.818	12.41
4) C	Vinyl Chloride	0.899	0.918	0.890	0.842	0.829	0.832	0.868	4.46#
5) T	Bromomethane	0.503	0.528	0.469	0.462	0.471	0.525	0.493	6.02
6) T	Chloroethane	0.667	0.705	0.586	0.559	0.547	0.535	0.600	11.64
7) T	Trichlorofluor...	1.075	1.068	1.044	0.988	0.964	0.980	1.020	4.74
8) T	Diethyl Ether	0.259	0.201	0.233	0.238	0.249	0.244	0.237	8.37
9) T	1,1,2-Trichlor...	0.601	0.612	0.594	0.559	0.567	0.554	0.581	4.15
10) T	Methyl Iodide	0.383	0.290	0.469	0.595	0.664	0.697	0.516	31.42
11) T	Tert butyl alc...	0.045	0.048	0.042	0.028	0.028	0.027	0.036	27.21
12) CM	1,1-Dichloroet...	0.560	0.538	0.543	0.538	0.534	0.538	0.542	1.74#
13) T	Acrolein	0.018	0.014	0.017	0.008	0.008	0.008	0.012	38.00
14) T	Allyl chloride	0.868	0.812	0.852	0.861	0.868	0.880	0.857	2.79
15) T	Acrylonitrile	0.122	0.109	0.117	0.114	0.114	0.112	0.115	3.87
16) T	Acetone	0.129	0.127	0.127	0.135	0.136	0.123	0.129	3.94
17) T	Carbon Disulfide	2.041	2.012	1.932	1.854	1.808	1.804	1.908	5.39
18) T	Methyl Acetate	0.413	0.452	0.407	0.373	0.398	0.390	0.406	6.56
19) T	Methyl tert-bu...	1.070	1.064	1.086	1.118	1.129	1.114	1.097	2.48
20) T	Methylene Chlo...	0.910	1.075	0.763	0.643	0.591	0.565	0.758	26.54
21) T	trans-1,2-Dich...	0.605	0.607	0.633	0.597	0.598	0.594	0.606	2.38
22) T	Diisopropyl ether	1.671	1.568	1.598	1.654	1.664	1.665	1.637	2.64
23) T	Vinyl Acetate	0.521	0.412	0.481	0.588	0.629	0.817	0.575	24.65
24) P	1,1-Dichloroet...	1.133	1.142	1.069	1.053	1.038	1.014	1.075	4.81
25) T	2-Butanone	0.165	0.170	0.156	0.158	0.163	0.155	0.161	3.55
26) T	2,2-Dichloropr...	0.979	0.975	0.890	0.916	0.921	0.929	0.935	3.75
27) T	cis-1,2-Dichlo...	0.637	0.669	0.649	0.640	0.640	0.631	0.644	2.06
28) T	Bromochloromet...	0.282	0.338	0.261	0.223	0.202	0.204	0.252	21.12
29) T	Tetrahydrofuran	0.089	0.087	0.090	0.093	0.095	0.092	0.091	3.09
30) C	Chloroform	1.181	1.109	1.077	1.055	1.040	1.014	1.079	5.47#
31) T	Cyclohexane	1.020	1.176	0.999	0.963	0.966	0.964	1.015	8.13
32) T	1,1,1-Trichlor...	1.025	0.985	1.023	0.990	0.968	0.970	0.994	2.51
33) S	1,2-Dichloroet...	0.544	0.540	0.529	0.418	0.418	0.412	0.477	14.01
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.326	0.312	0.329	0.274	0.272	0.268	0.297	9.57
36) T	1,1-Dichloropr...	0.522	0.525	0.530	0.534	0.535	0.545	0.532	1.54
37) T	Ethyl Acetate	0.213	0.192	0.217	0.211	0.210	0.206	0.208	4.21
38) T	Carbon Tetrach...	0.541	0.509	0.520	0.540	0.541	0.547	0.533	2.83
39) T	Methylcyclohexane	0.583	0.603	0.600	0.650	0.652	0.674	0.627	5.76
40) TM	Benzene	1.468	1.482	1.438	1.447	1.462	1.441	1.456	1.19
41) T	Methacrylonitrile	0.122	0.115	0.112	0.113	0.118	0.137	0.119	7.89
42) TM	1,2-Dichloroet...	0.400	0.402	0.415	0.404	0.410	0.408	0.407	1.39
43) T	Isopropyl Acetate	0.383	0.362	0.392	0.386	0.414	0.411	0.391	4.93
44) TM	Trichloroethene	0.399	0.391	0.386	0.384	0.391	0.389	0.390	1.37
45) C	1,2-Dichloropr...	0.358	0.350	0.358	0.358	0.361	0.346	0.355	1.65#
46) T	Dibromomethane	0.195	0.196	0.193	0.192	0.195	0.189	0.193	1.43
47) T	Bromodichlorom...	0.501	0.492	0.495	0.493	0.486	0.486	0.492	1.14
48) T	Methyl methacr...	0.195	0.174	0.202	0.200	0.206	0.203	0.197	6.03
49) T	1,4-Dioxane	0.001	0.001	0.002	0.002	0.002	0.002	0.002	19.52
50) S	Toluene-d8	1.204	1.155	1.211	0.945	0.961	0.951	1.071	12.27
51) T	4-Methyl-2-Pen...	0.193	0.172	0.195	0.202	0.215	0.212	0.198	7.86
52) CM	Toluene	0.842	0.863	0.892	0.913	0.935	0.934	0.897	4.25#
53) T	t-1,3-Dichloro...	0.375	0.345	0.376	0.422	0.448	0.452	0.403	10.86
54) T	cis-1,3-Dichlo...	0.473	0.430	0.472	0.501	0.522	0.533	0.488	7.78
55) T	1,1,2-Trichlor...	0.255	0.254	0.252	0.249	0.252	0.241	0.251	2.14
56) T	Ethyl methacry...	0.272	0.228	0.257	0.294	0.312	0.309	0.279	11.84

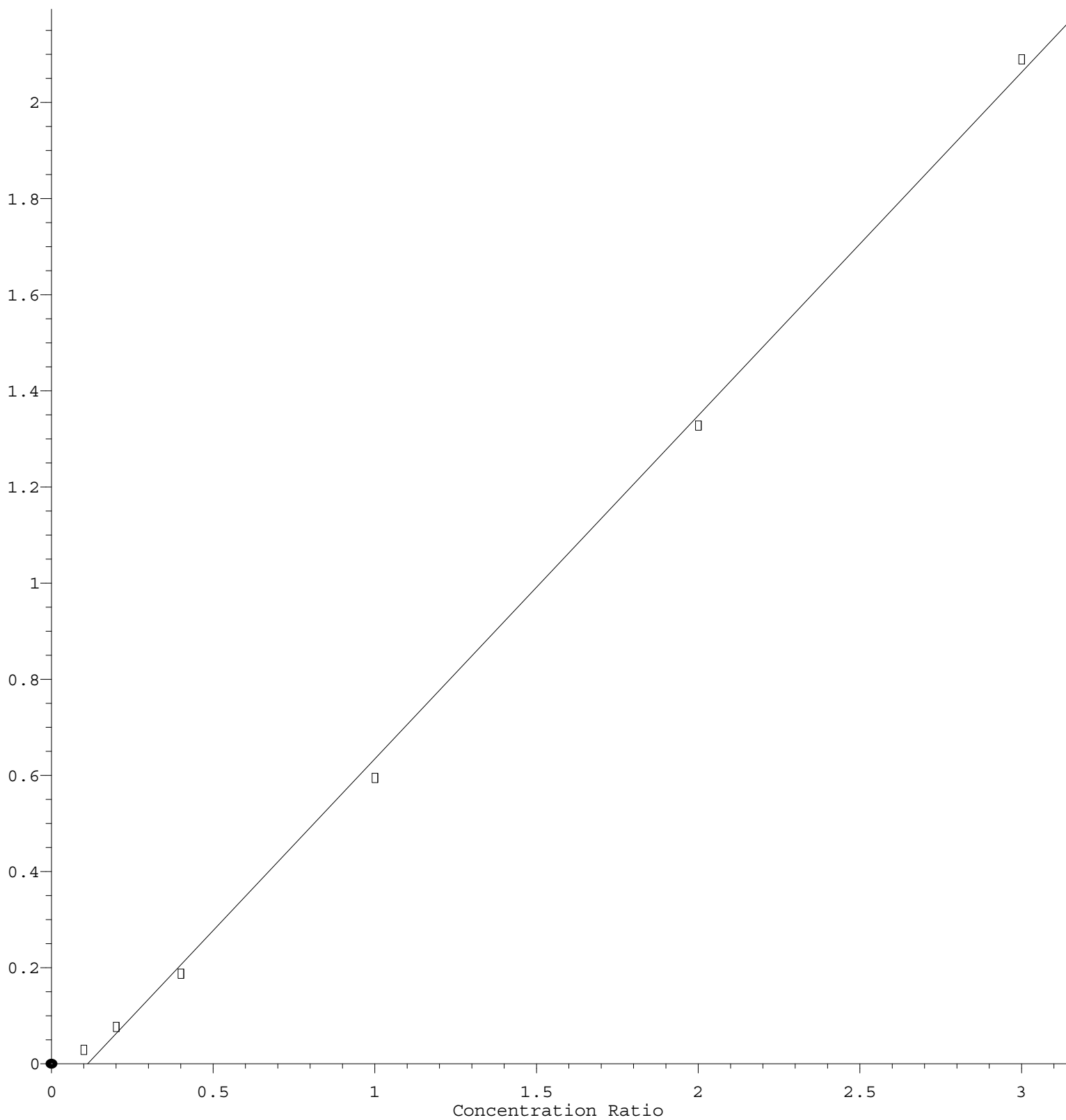
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57)	T	1,3-Dichloropr...	0.435	0.430	0.432	0.429	0.434	0.429	0.432	0.64
58)	T	2-Chloroethyl ...	0.054	0.045	0.057	0.060	0.069	0.076	0.060	18.19
59)	T	2-Hexanone	0.135	0.112	0.139	0.148	0.154	0.151	0.140	11.09
60)	T	Dibromochlorom...	0.323	0.332	0.311	0.316	0.326	0.314	0.320	2.53
61)	T	1,2-Dibromoethane	0.241	0.227	0.242	0.238	0.242	0.235	0.238	2.58
62)	S	4-Bromofluorob...	0.376	0.376	0.391	0.326	0.343	0.347	0.360	6.90
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.384	0.358	0.352	0.349	0.352	0.352	0.358	3.61
65)	PM	Chlorobenzene	1.116	1.091	0.999	1.026	1.026	1.018	1.046	4.43
66)	T	1,1,1,2-Tetrac...	0.382	0.387	0.371	0.375	0.383	0.380	0.380	1.48
67)	C	Ethyl Benzene	1.853	1.688	1.856	1.941	1.987	2.055	1.897	6.77#
68)	T	m/p-Xylenes	0.732	0.678	0.738	0.752	0.775	0.786	0.743	5.16
69)	T	o-Xylene	0.659	0.655	0.646	0.692	0.713	0.719	0.681	4.63
70)	T	Styrene	1.091	0.989	1.139	1.163	1.209	1.227	1.136	7.68
71)	P	Bromoform	0.194	0.180	0.194	0.197	0.204	0.199	0.195	4.25
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.676	3.595	3.581	3.878	3.851	4.039	3.770	4.83
74)	T	N-amyl acetate	0.780	0.685	0.769	0.836	0.865	0.909	0.807	9.84
75)	P	1,1,2,2-Tetrac...	0.674	0.644	0.623	0.627	0.606	0.617	0.632	3.85
76)	T	1,2,3-Trichlor...	0.443	0.779	0.442	0.430	0.400	0.530	0.504	28.07
77)	T	Bromobenzene	0.939	0.885	0.806	0.828	0.820	0.834	0.852	5.90
78)	T	n-propylbenzene	4.739	4.356	4.558	4.837	4.796	5.017	4.717	4.89
79)	T	2-Chlorotoluene	2.552	2.503	2.466	2.540	2.565	2.659	2.547	2.57
80)	T	1,3,5-Trimethy...	3.078	2.770	3.044	3.208	3.251	3.369	3.120	6.68
81)	T	trans-1,4-Dich...	0.114	0.096	0.123	0.139	0.151	0.173	0.133	20.80
82)	T	4-Chlorotoluene	2.636	2.653	2.647	2.708	2.694	2.788	2.687	2.11
83)	T	tert-Butylbenzene	2.626	2.405	2.637	2.744	2.834	2.982	2.705	7.32
84)	T	1,2,4-Trimethy...	3.015	2.747	3.021	3.185	3.204	3.318	3.082	6.52
85)	T	sec-Butylbenzene	4.064	3.972	3.961	4.285	4.259	4.459	4.167	4.78
86)	T	p-Isopropyltol...	3.169	2.961	3.284	3.551	3.586	3.759	3.385	8.81
87)	T	1,3-Dichlorobe...	1.920	1.737	1.709	1.719	1.707	1.738	1.755	4.67
88)	T	1,4-Dichlorobe...	1.838	1.783	1.704	1.682	1.654	1.669	1.722	4.22
89)	T	n-Butylbenzene	3.199	3.108	3.223	3.443	3.431	3.575	3.330	5.39
90)	T	Hexachloroethane	0.686	0.692	0.685	0.668	0.668	0.676	0.679	1.47
91)	T	1,2-Dichlorobe...	1.481	1.535	1.459	1.466	1.439	1.449	1.472	2.32
92)	T	1,2-Dibromo-3-...	0.079	0.085	0.094	0.096	0.093	0.097	0.091	7.64
93)	T	1,2,4-Trichlor...	0.947	0.796	0.886	0.891	0.918	0.930	0.895	6.00
94)	T	Hexachlorobuta...	0.478	0.570	0.515	0.524	0.510	0.511	0.518	5.77
95)	T	Naphthalene	1.498	1.409	1.528	1.619	1.705	1.740	1.583	8.07
96)	T	1,2,3-Trichlor...	0.764	0.709	0.729	0.766	0.776	0.796	0.757	4.23

(#) = Out of Range

Methyl Iodide

Response Ratio



$$\text{Response} = 7.141\text{e-}001 * \text{Amt} - 7.993\text{e-}002$$

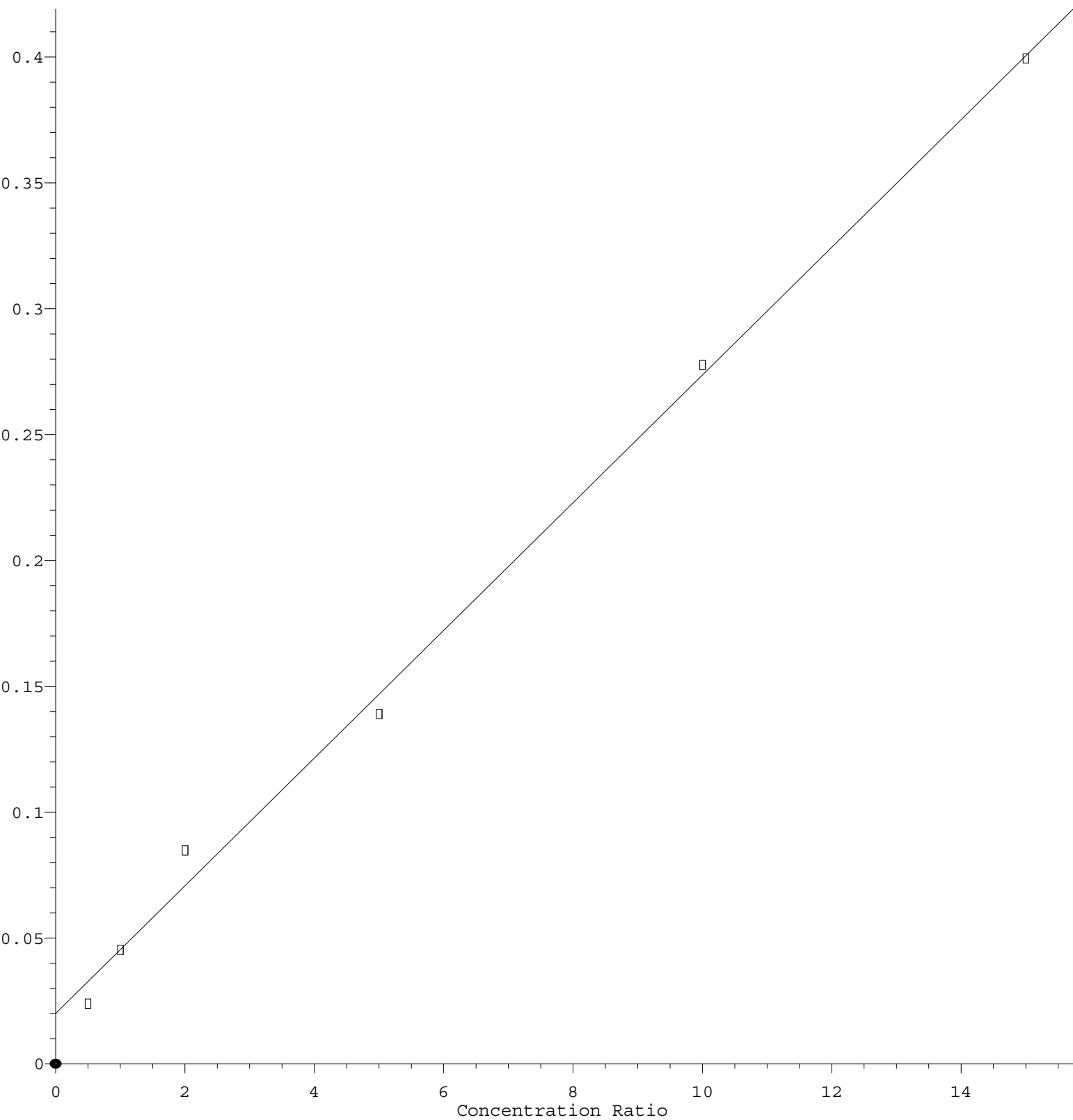
Coef of Det (r^2) = 0.998644 Curve Fit: Linear

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Tert butyl alcohol

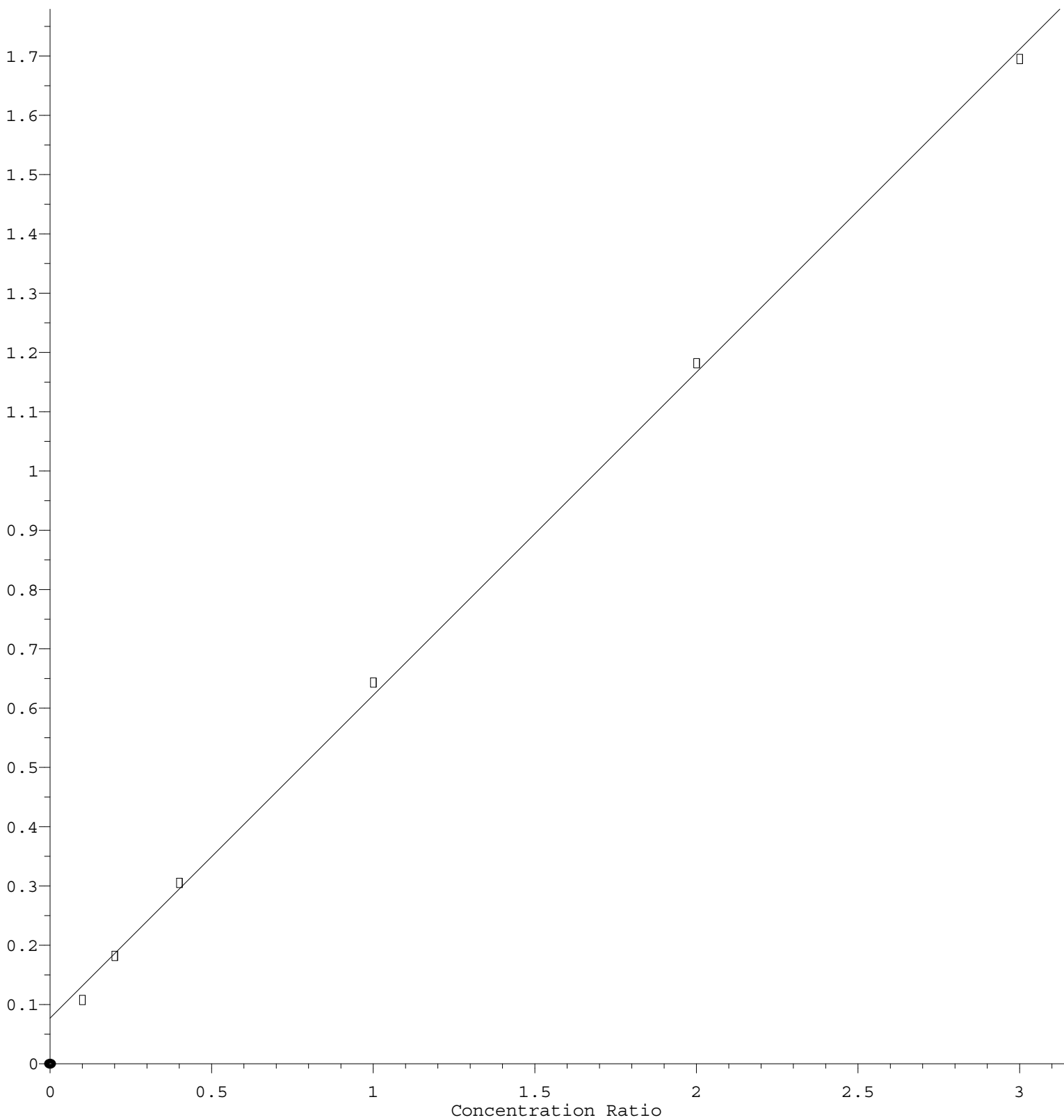
Response Ratio



Response = 2.541e-002 * Amt + 1.978e-002
 Coef of Det (r^2) = 0.996775 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M
 Calibration Table Last Updated: Tue Feb 21 16:26:04 2023

Methylene Chloride

Response Ratio



$$\text{Response} = 5.449\text{e-}001 * \text{Amt} + 7.724\text{e-}002$$

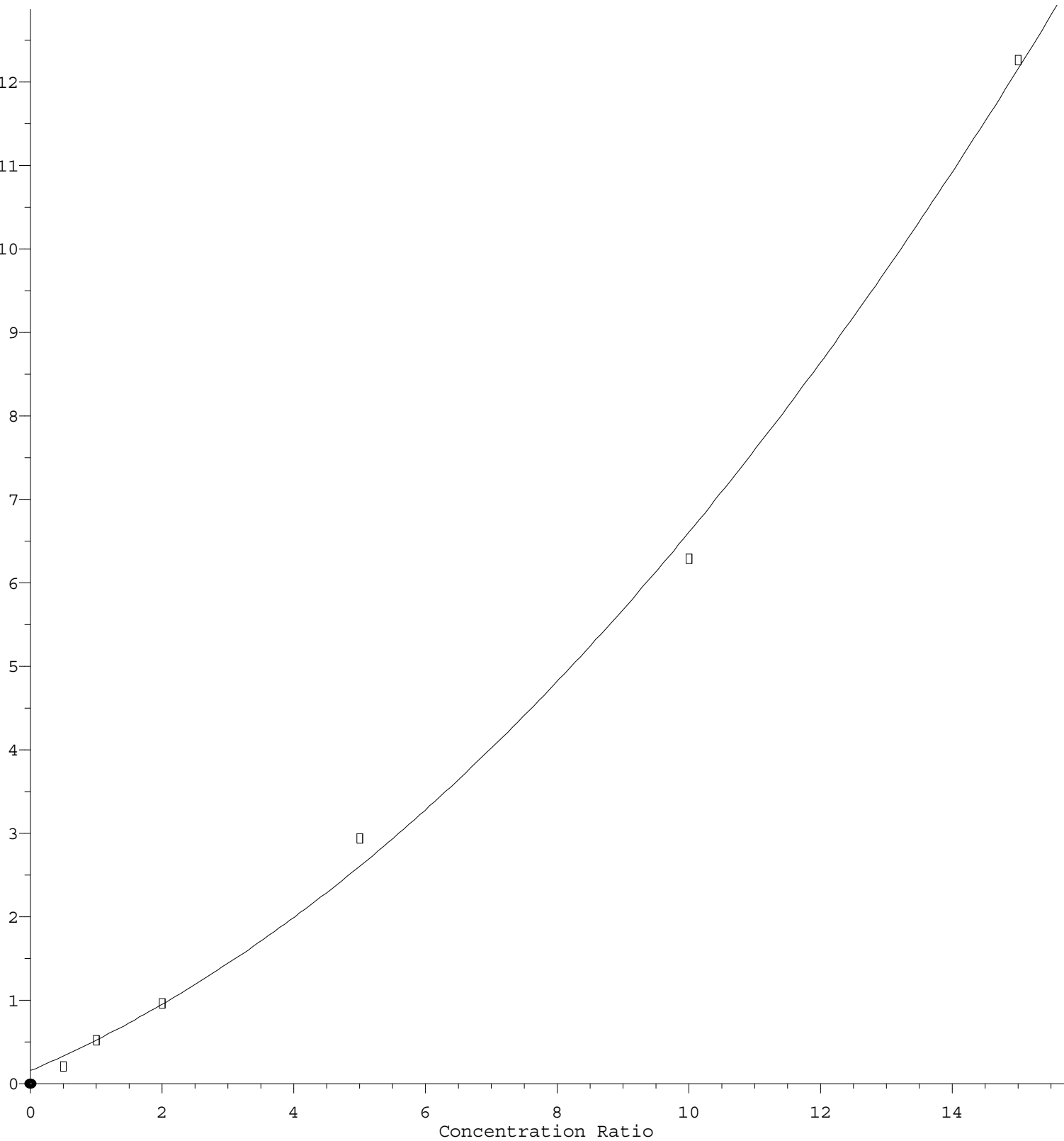
Coef of Det (r^2) = 0.999180 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M

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Vinyl Acetate

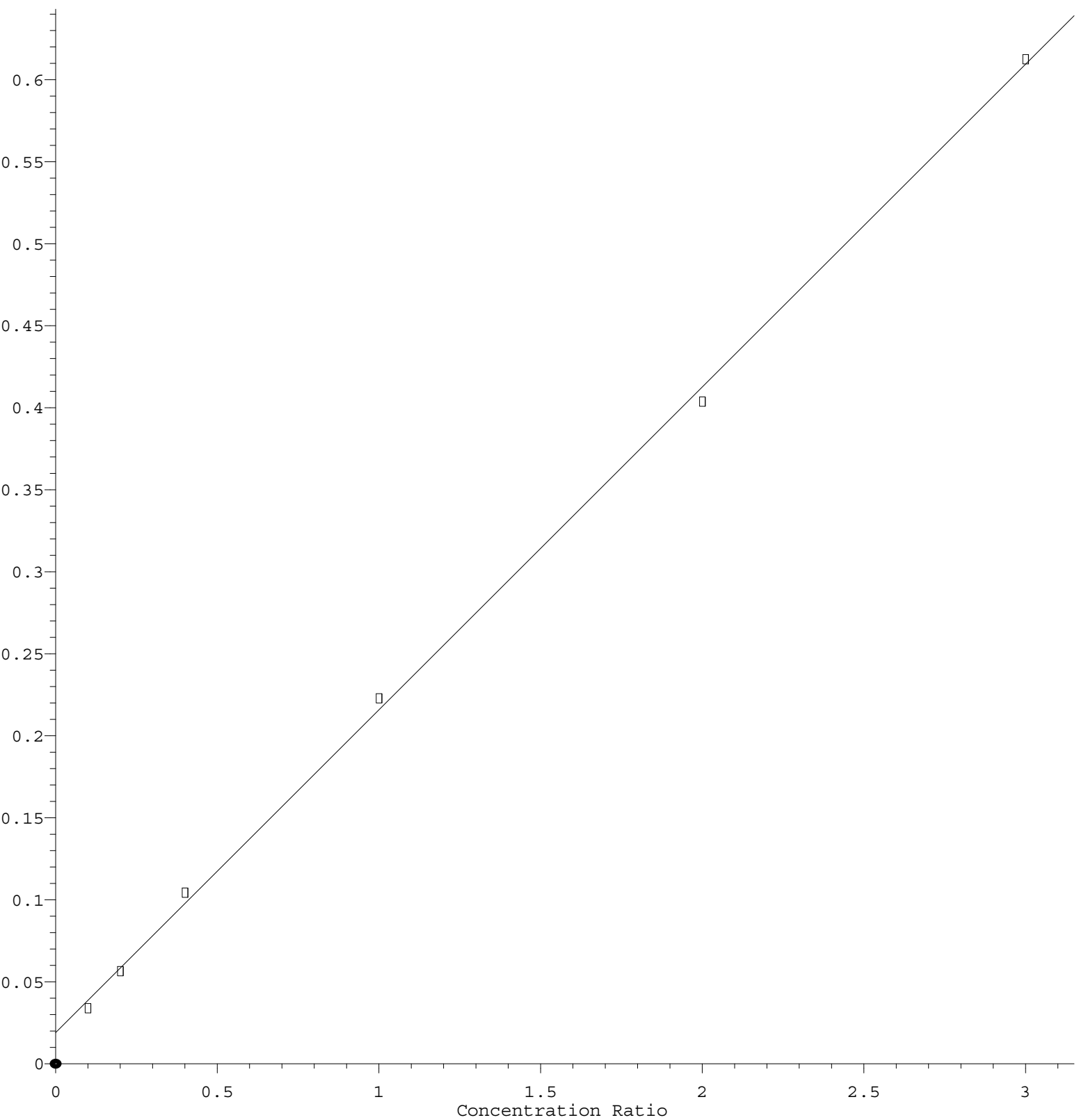
Response Ratio



$R = 3.102e-002 A^2 + 3.346e-001 A + 1.575e-001$
 Coef of Det (r^2) = 0.997830 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M
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Bromochloromethane

Response Ratio



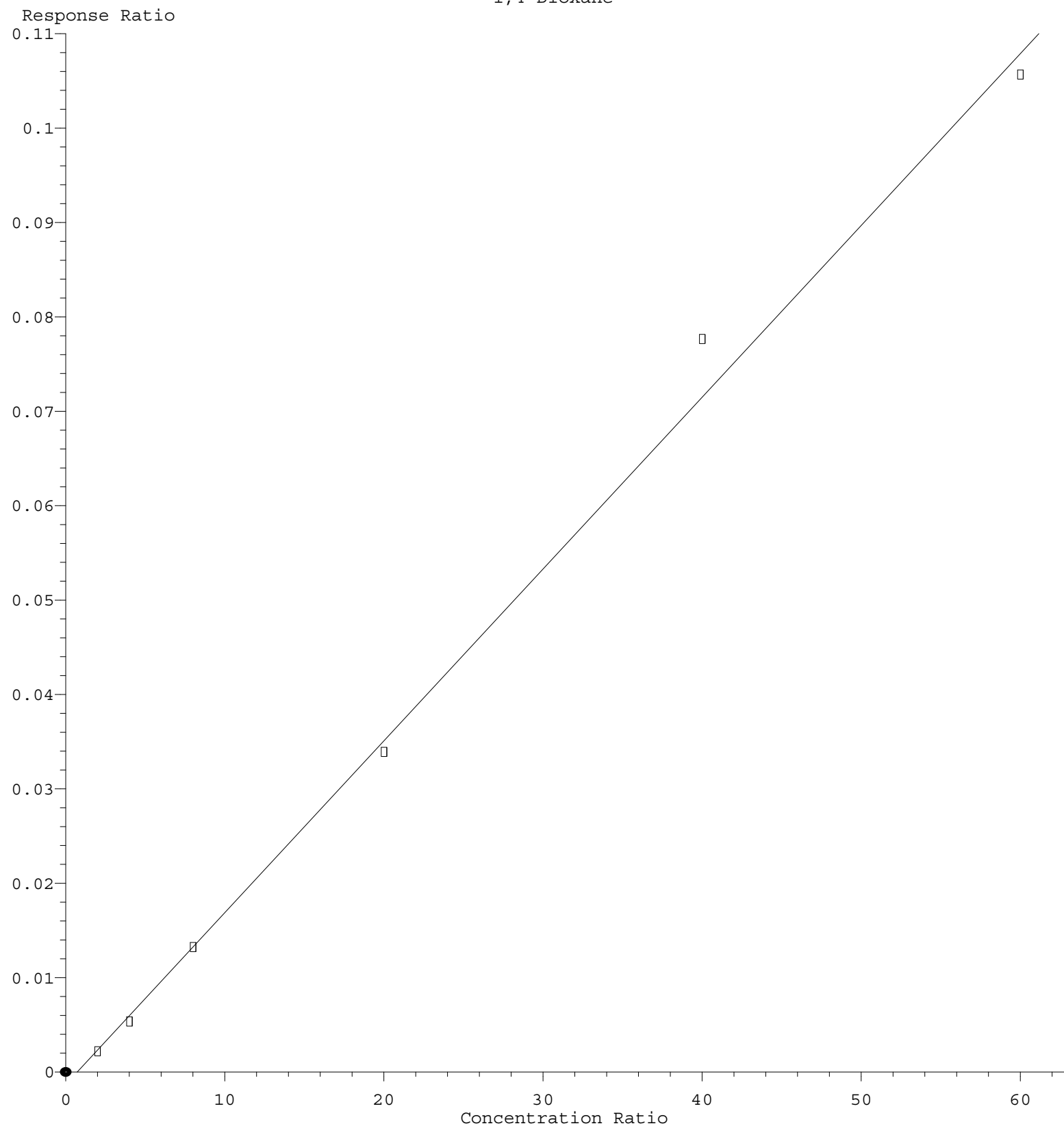
$$\text{Response} = 1.966\text{e-}001 * \text{Amt} + 1.934\text{e-}002$$

Coef of Det (r^2) = 0.999205 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M

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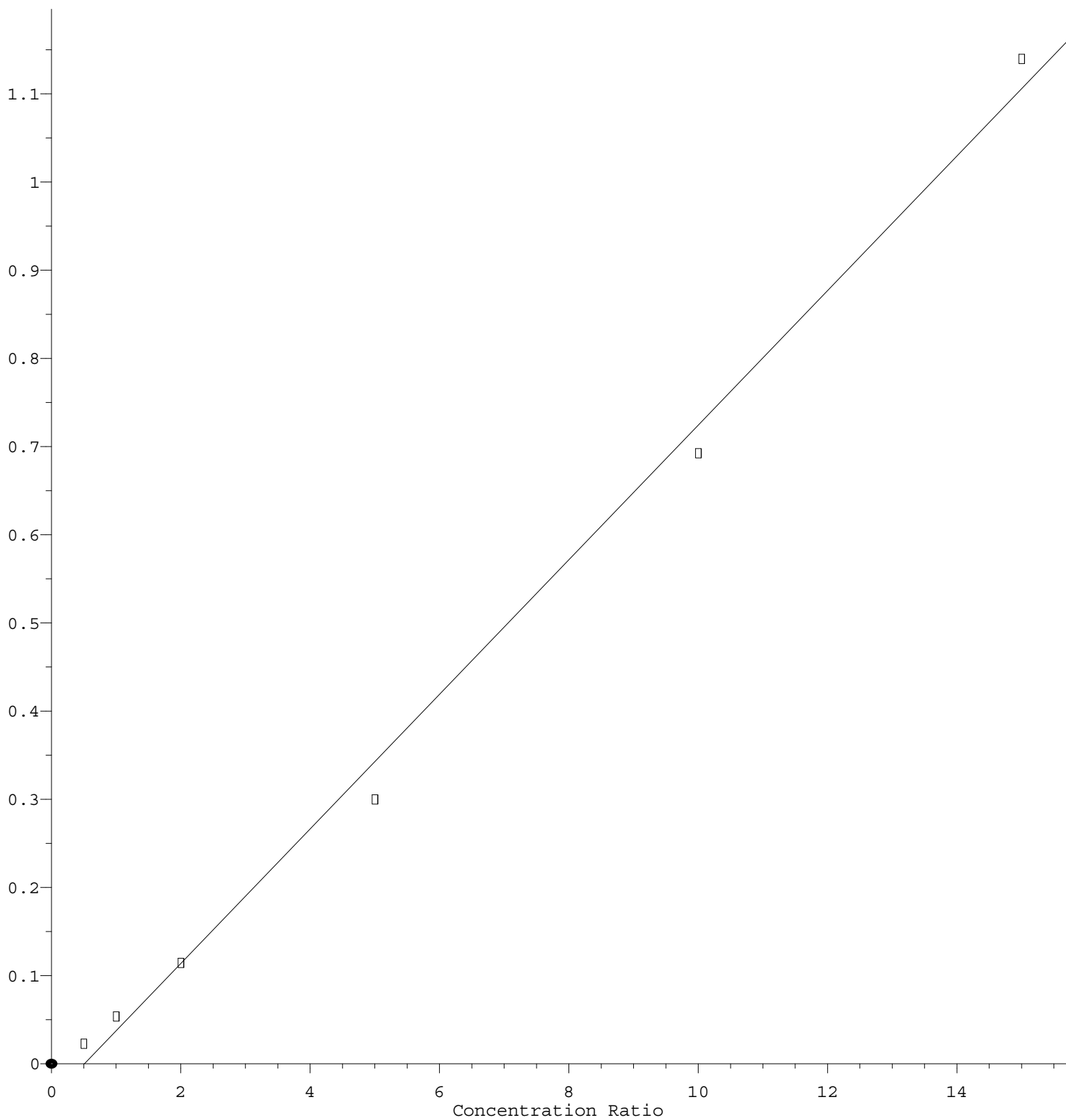
1,4-Dioxane



$\text{Response} = 1.836\text{e-}003 * \text{Amt} - 1.327\text{e-}003$
 Coef of Det (r^2) = 0.995236 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M
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2-Chloroethyl Vinyl ether

Response Ratio



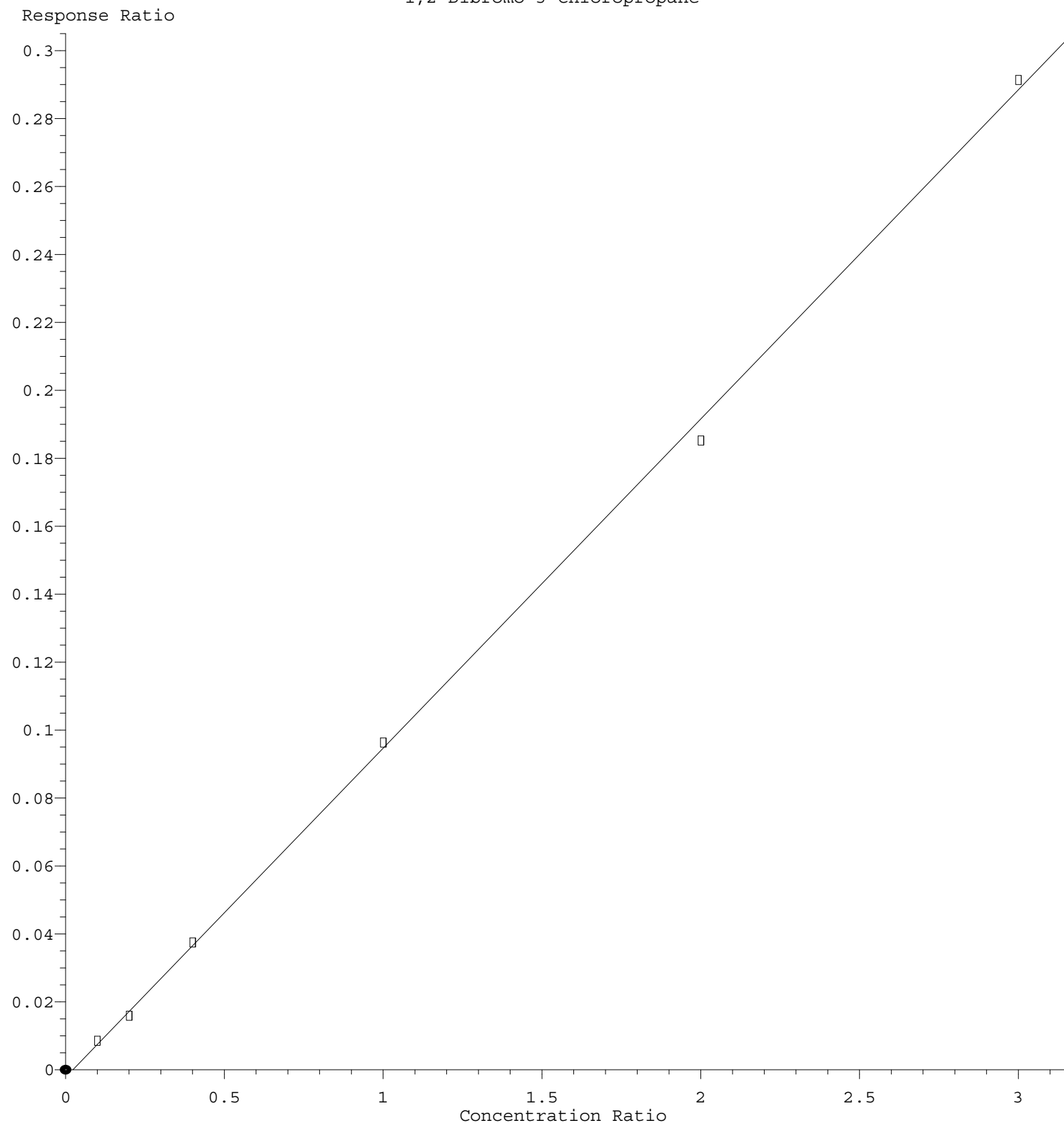
$$\text{Response} = 7.635\text{e-}002 * \text{Amt} - 3.922\text{e-}002$$

Coef of Det (r^2) = 0.995119 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M

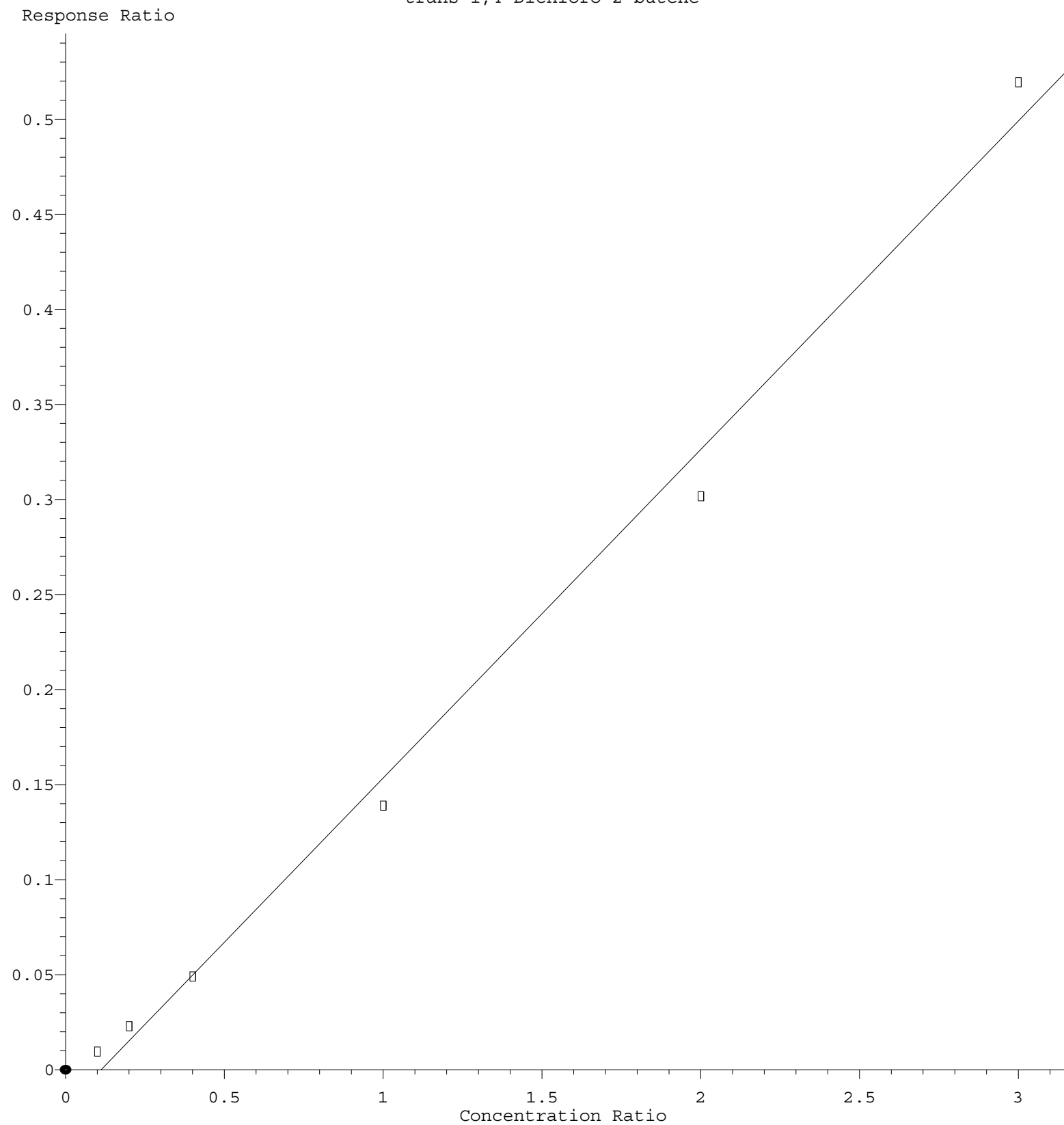
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1,2-Dibromo-3-Chloropropane



Response = $9.675 \times 10^{-2} \times \text{Amt} - 2.241 \times 10^{-3}$
 Coef of Det (r^2) = 0.999133 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M
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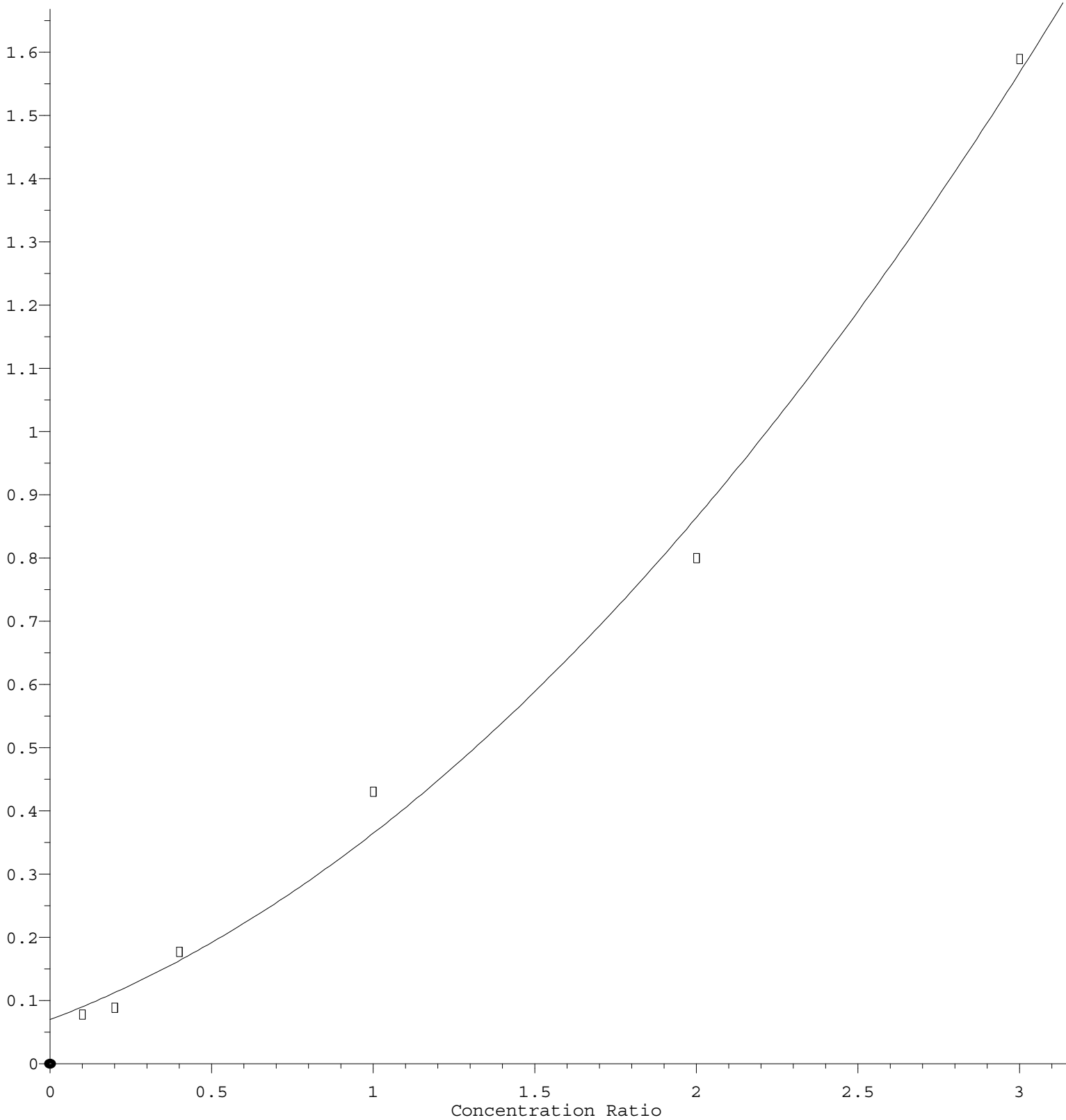
trans-1,4-Dichloro-2-butene



Response = $1.728 \times 10^{-1} \times \text{Amt} - 1.938 \times 10^{-2}$
Coef of Det (r^2) = 0.992952 Curve Fit: Linear
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1,2,3-Trichloropropane

Response Ratio



$R = 1.023e-001 A^2 + 1.924e-001 A + 6.988e-002$
 Coef of Det (r^2) = 0.994343 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D022123S.M
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