

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y111022S.M
 Title : SW846 8260
 Last Update : Thu Nov 10 17:47:26 2022
 Response Via : Initial Calibration

Calibration Files

5 =VY011378.D 10 =VY011379.D 20 =VY011380.D 50 =VY011385.D 100 =VY011382.D 150 =VY011383.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.406	0.426	0.428	0.278	0.277	0.282	0.350	22.13
3) P	Chloromethane	0.467	0.441	0.437	0.357	0.353	0.357	0.402	12.88
4) C	Vinyl Chloride	0.544	0.517	0.500	0.425	0.423	0.432	0.474	11.26#
5) T	Bromomethane	0.406	0.374	0.352	0.323	0.300	0.302	0.343	12.41
6) T	Chloroethane	0.348	0.338	0.327	0.289	0.292	0.294	0.315	8.31
7) T	Trichlorofluor...	0.810	0.786	0.789	0.687	0.701	0.710	0.747	7.18
8) T	Diethyl Ether	0.268	0.257	0.257	0.264	0.263	0.266	0.262	1.81
9) T	1,1,2-Trichlor...	0.494	0.457	0.464	0.427	0.435	0.442	0.453	5.37
10) T	Methyl Iodide	0.594	0.603	0.621	0.559	0.628	0.621	0.604	4.26
11) T	Tert butyl alc...	0.103	0.061	0.063	0.055	0.048	0.047	0.063	33.00
12) CM	1,1-Dichloroet...	0.483	0.459	0.457	0.425	0.431	0.437	0.449	4.89#
13) T	Acrolein	0.019	0.020	0.021	0.012	0.011	0.012	0.016	28.80
14) T	Allyl chloride	0.596	0.606	0.605	0.598	0.612	0.616	0.605	1.27
15) T	Acrylonitrile	0.120	0.116	0.124	0.133	0.129	0.130	0.125	5.23
16) T	Acetone	0.107	0.098	0.104	0.122	0.112	0.121	0.111	8.79
17) T	Carbon Disulfide	1.494	1.402	1.378	1.233	1.256	1.255	1.336	7.82
18) T	Methyl Acetate	0.427	0.304	0.324	0.308	0.298	0.304	0.328	15.07
19) T	Methyl tert-bu...	1.108	1.103	1.159	1.221	1.221	1.228	1.173	4.98
20) T	Methylene Chlo...	0.997	1.075	0.623	0.653	0.591	0.522	0.743	31.20
21) T	trans-1,2-Dich...	0.547	0.515	0.516	0.494	0.501	0.497	0.512	3.82
22) T	Diisopropyl ether	1.251	1.282	1.304	1.309	1.315	1.292	1.292	1.81
23) T	Vinyl Acetate	0.614	0.701	0.754	0.825	0.822	0.819	0.756	11.25
24) P	1,1-Dichloroet...	0.875	0.855	0.845	0.823	0.827	0.823	0.841	2.50
25) T	2-Butanone	0.146	0.145	0.153	0.171	0.161	0.169	0.157	7.26
26) T	2,2-Dichloropr...	0.846	0.821	0.779	0.758	0.758	0.760	0.787	4.81
27) T	cis-1,2-Dichlo...	0.581	0.579	0.580	0.570	0.573	0.571	0.576	0.87
28) T	Bromochloromet...	0.306	0.300	0.293	0.318	0.311	0.305	0.306	2.83
29) T	Tetrahydrofuran	0.086	0.083	0.094	0.105	0.101	0.103	0.095	9.28
30) C	Chloroform	0.903	0.917	0.892	0.878	0.880	0.870	0.890	1.98#
31) T	Cyclohexane	0.872	0.755	0.758	0.697	0.716	0.719	0.753	8.38
32) T	1,1,1-Trichlor...	0.841	0.804	0.820	0.780	0.790	0.794	0.805	2.75
33) S	1,2-Dichloroet...	0.469	0.459	0.440	0.388	0.379	0.378	0.419	10.04
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.297	0.298	0.294	0.265	0.265	0.263	0.280	6.26
36) T	1,1-Dichloropr...	0.449	0.435	0.441	0.418	0.438	0.430	0.435	2.39
37) T	Ethyl Acetate	0.194	0.191	0.211	0.222	0.218	0.218	0.209	6.43
38) T	Carbon Tetrach...	0.487	0.471	0.479	0.457	0.475	0.469	0.473	2.12
39) T	Methylcyclohexane	0.516	0.513	0.544	0.520	0.549	0.546	0.531	3.11
40) TM	Benzene	1.336	1.315	1.314	1.259	1.299	1.269	1.299	2.26
41) T	Methacrylonitrile	0.091	0.089	0.105	0.122	0.120	0.122	0.108	14.41
42) TM	1,2-Dichloroet...	0.342	0.338	0.341	0.340	0.345	0.336	0.340	0.90
43) T	Isopropyl Acetate	0.344	0.339	0.368	0.404	0.401	0.406	0.377	8.18
44) TM	Trichloroethene	0.372	0.368	0.366	0.355	0.366	0.361	0.365	1.58
45) C	1,2-Dichloropr...	0.307	0.313	0.312	0.304	0.314	0.306	0.309	1.29#
46) T	Dibromomethane	0.181	0.174	0.179	0.183	0.183	0.180	0.180	1.89
47) T	Bromodichlorom...	0.431	0.427	0.429	0.430	0.440	0.431	0.431	1.06
48) T	Methyl methacr...	0.138	0.151	0.170	0.180	0.188	0.189	0.169	12.29
49) T	1,4-Dioxane	0.002	0.002	0.002	0.003	0.003	0.003	0.002	11.54
50) S	Toluene-d8	1.149	1.192	1.165	0.972	0.982	0.963	1.070	10.15
51) T	4-Methyl-2-Pen...	0.176	0.176	0.200	0.225	0.220	0.220	0.203	11.10
52) CM	Toluene	0.828	0.830	0.839	0.816	0.845	0.817	0.829	1.40#
53) T	t-1,3-Dichloro...	0.416	0.424	0.444	0.453	0.468	0.462	0.445	4.70
54) T	cis-1,3-Dichlo...	0.491	0.503	0.511	0.517	0.533	0.524	0.513	2.89
55) T	1,1,2-Trichlor...	0.251	0.256	0.262	0.265	0.268	0.261	0.261	2.39
56) T	Ethyl methacry...	0.282	0.293	0.328	0.369	0.370	0.368	0.335	12.08

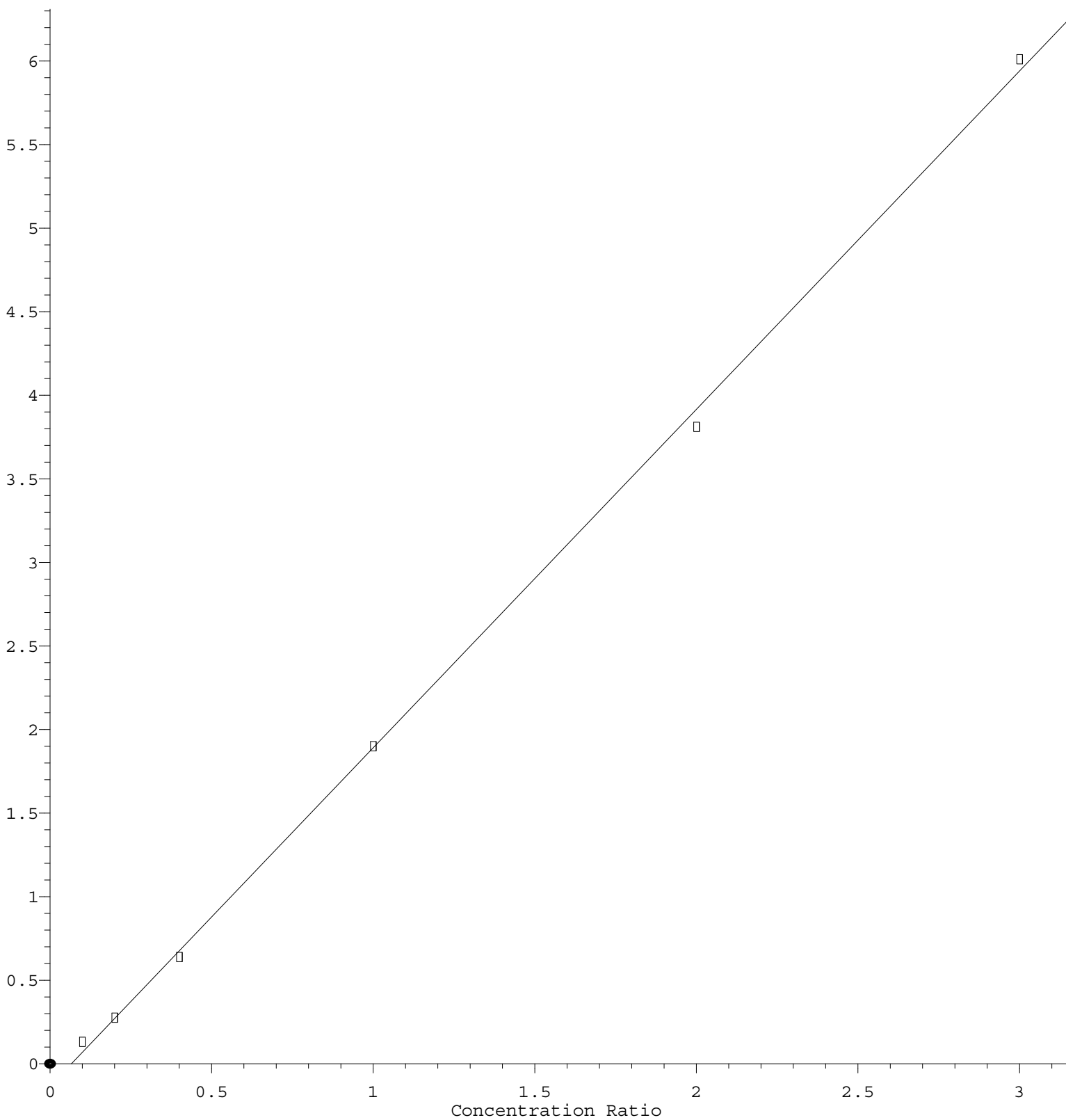
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57)	T	1,3-Dichloropr...	0.420	0.422	0.434	0.446	0.450	0.438	0.435	2.82
58)	T	2-Chloroethyl ...	0.139	0.137	0.156	0.167	0.165	0.165	0.155	8.72
59)	T	2-Hexanone	0.119	0.120	0.140	0.165	0.158	0.160	0.144	14.36
60)	T	Dibromochlorom...	0.313	0.314	0.318	0.327	0.333	0.324	0.322	2.44
61)	T	1,2-Dibromoethane	0.241	0.245	0.248	0.258	0.258	0.252	0.251	2.79
62)	S	4-Bromofluorob...	0.392	0.401	0.388	0.354	0.356	0.349	0.373	6.07
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.422	0.398	0.408	0.383	0.397	0.390	0.400	3.40
65)	PM	Chlorobenzene	1.020	1.015	1.019	0.977	0.991	0.983	1.001	1.93
66)	T	1,1,1,2-Tetrac...	0.381	0.375	0.377	0.368	0.377	0.368	0.374	1.36
67)	C	Ethyl Benzene	1.740	1.726	1.775	1.724	1.772	1.755	1.749	1.28#
68)	T	m/p-Xylenes	0.668	0.680	0.711	0.680	0.692	0.682	0.686	2.12
69)	T	o-Xylene	0.619	0.628	0.665	0.649	0.664	0.655	0.647	3.01
70)	T	Styrene	1.014	1.050	1.109	1.113	1.127	1.108	1.087	4.08
71)	P	Bromoform	0.224	0.221	0.234	0.241	0.237	0.237	0.232	3.44
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.381	3.353	3.527	3.406	3.529	3.539	3.456	2.45
74)	T	N-amyl acetate	0.613	0.622	0.716	0.799	0.797	0.816	0.727	12.64
75)	P	1,1,2,2-Tetrac...	0.641	0.641	0.664	0.687	0.671	0.681	0.664	2.95
76)	T	1,2,3-Trichlor...	0.603	0.511	0.511	0.613	0.615	0.620	0.579	9.15
77)	T	Bromobenzene	0.818	0.821	0.820	0.823	0.836	0.841	0.826	1.12
78)	T	n-propylbenzene	4.070	4.043	4.232	4.048	4.169	4.179	4.124	1.94
79)	T	2-Chlorotoluene	2.339	2.341	2.407	2.309	2.369	2.384	2.358	1.51
80)	T	1,3,5-Trimethy...	2.840	2.889	3.043	2.870	2.913	2.933	2.915	2.44
81)	T	trans-1,4-Dich...	0.221	0.228	0.237	0.250	0.250	0.259	0.241	6.23
82)	T	4-Chlorotoluene	2.447	2.480	2.505	2.377	2.437	2.442	2.448	1.77
83)	T	tert-Butylbenzene	2.436	2.433	2.587	2.506	2.565	2.593	2.520	2.90
84)	T	1,2,4-Trimethy...	2.759	2.814	2.970	2.839	2.890	2.895	2.861	2.57
85)	T	sec-Butylbenzene	3.670	3.634	3.848	3.642	3.728	3.738	3.710	2.16
86)	T	p-Isopropyltol...	3.024	3.016	3.233	3.074	3.151	3.159	3.110	2.76
87)	T	1,3-Dichlorobe...	1.706	1.645	1.679	1.612	1.633	1.623	1.650	2.17
88)	T	1,4-Dichlorobe...	1.704	1.643	1.660	1.584	1.600	1.598	1.631	2.82
89)	T	n-Butylbenzene	2.713	2.699	2.886	2.767	2.835	2.863	2.794	2.83
90)	T	Hexachloroethane	0.636	0.603	0.630	0.581	0.596	0.604	0.608	3.47
91)	T	1,2-Dichlorobe...	1.494	1.479	1.472	1.440	1.448	1.447	1.463	1.47
92)	T	1,2-Dibromo-3-...	0.098	0.098	0.109	0.113	0.114	0.117	0.108	7.60
93)	T	1,2,4-Trichlor...	0.796	0.788	0.858	0.889	0.906	0.939	0.863	7.05
94)	T	Hexachlorobuta...	0.536	0.489	0.527	0.488	0.504	0.515	0.510	3.90
95)	T	Naphthalene	1.312	1.378	1.597	1.900	1.905	2.003	1.683	17.56
96)	T	1,2,3-Trichlor...	0.668	0.681	0.740	0.777	0.787	0.818	0.745	8.08

(#) = Out of Range

Naphthalene

Response Ratio



$$\text{Response} = 2.024\text{e}+000 * \text{Amt} - 1.326\text{e}-001$$

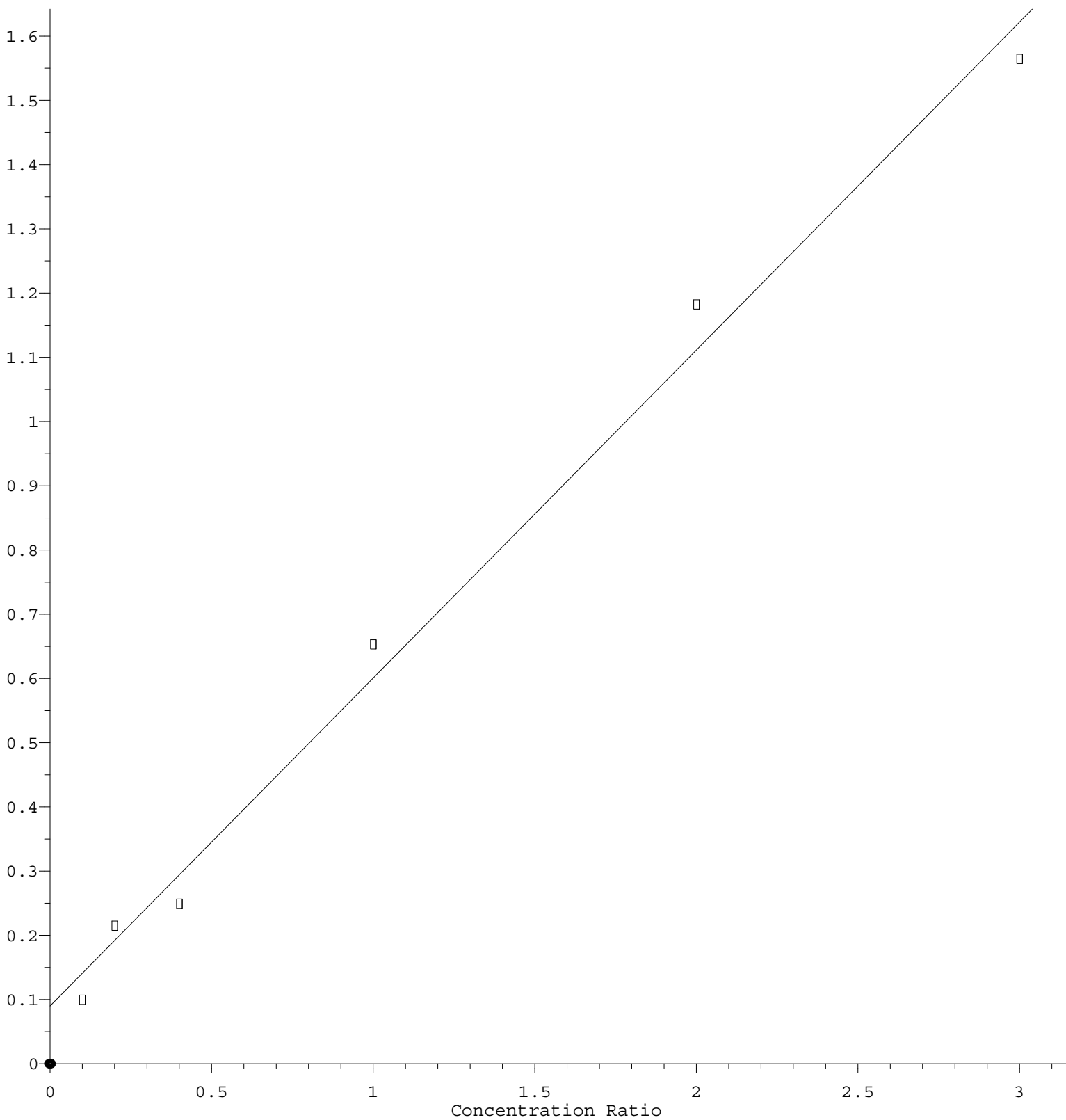
Coef of Det (r^2) = 0.999227 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$$\text{Response} = 5.110\text{e-}001 * \text{Amt} + 9.005\text{e-}002$$

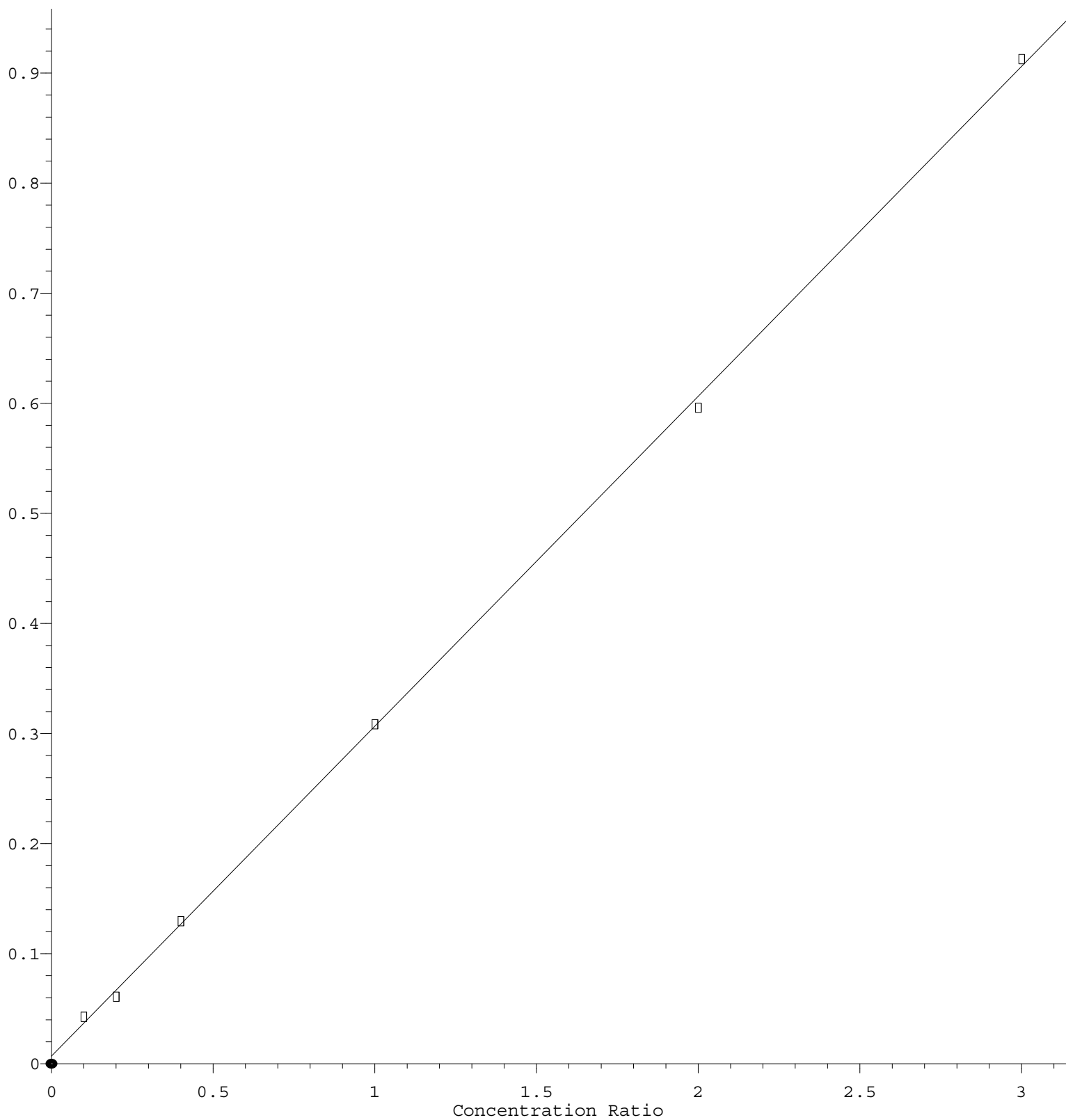
Coef of Det (r^2) = 0.991345 Curve Fit: Linear

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Methyl Acetate

Response Ratio



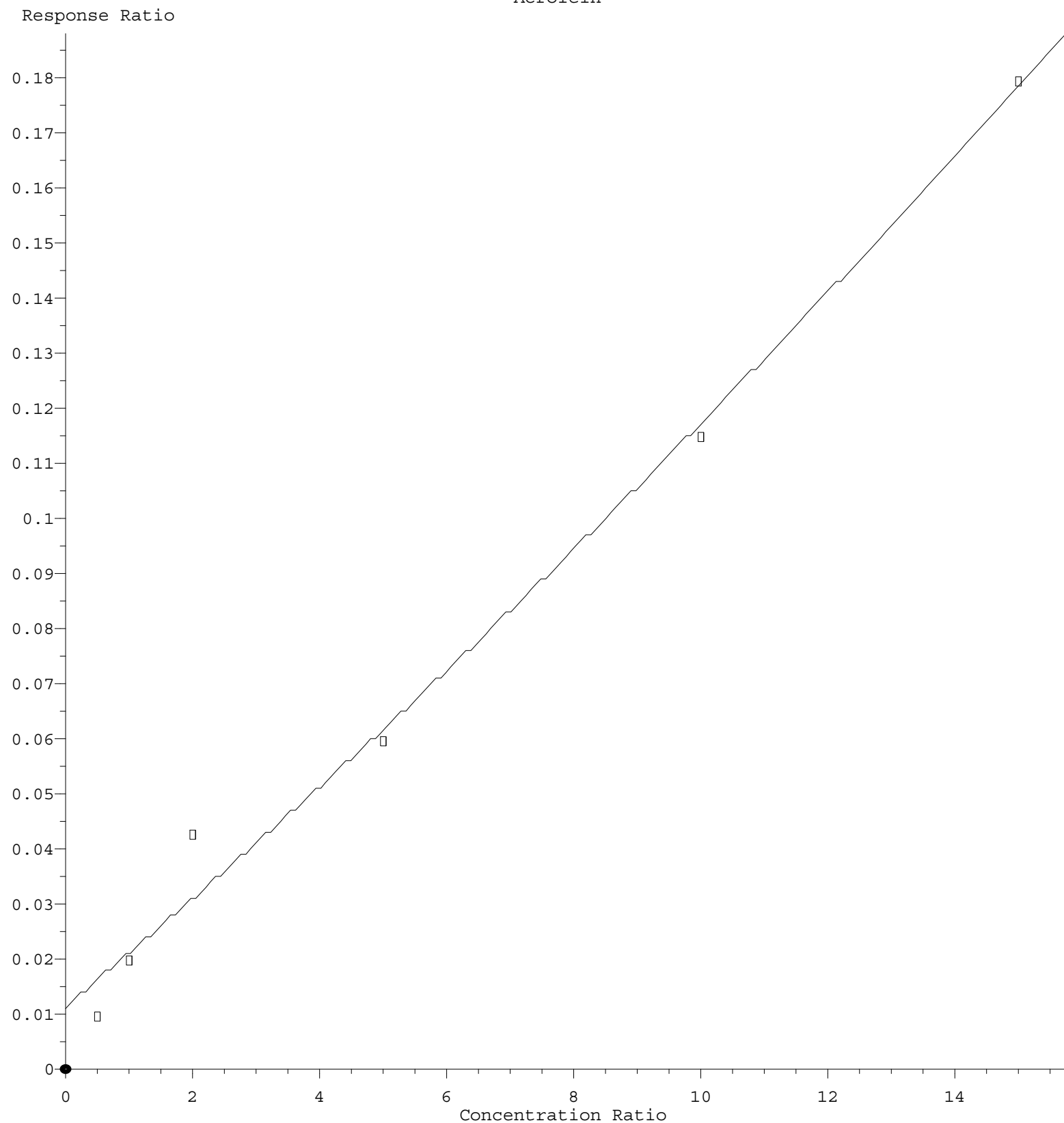
$$\text{Response} = 2.998\text{e-}001 * \text{Amt} + 6.874\text{e-}003$$

Coef of Det (r^2) = 0.999619 Curve Fit: Linear

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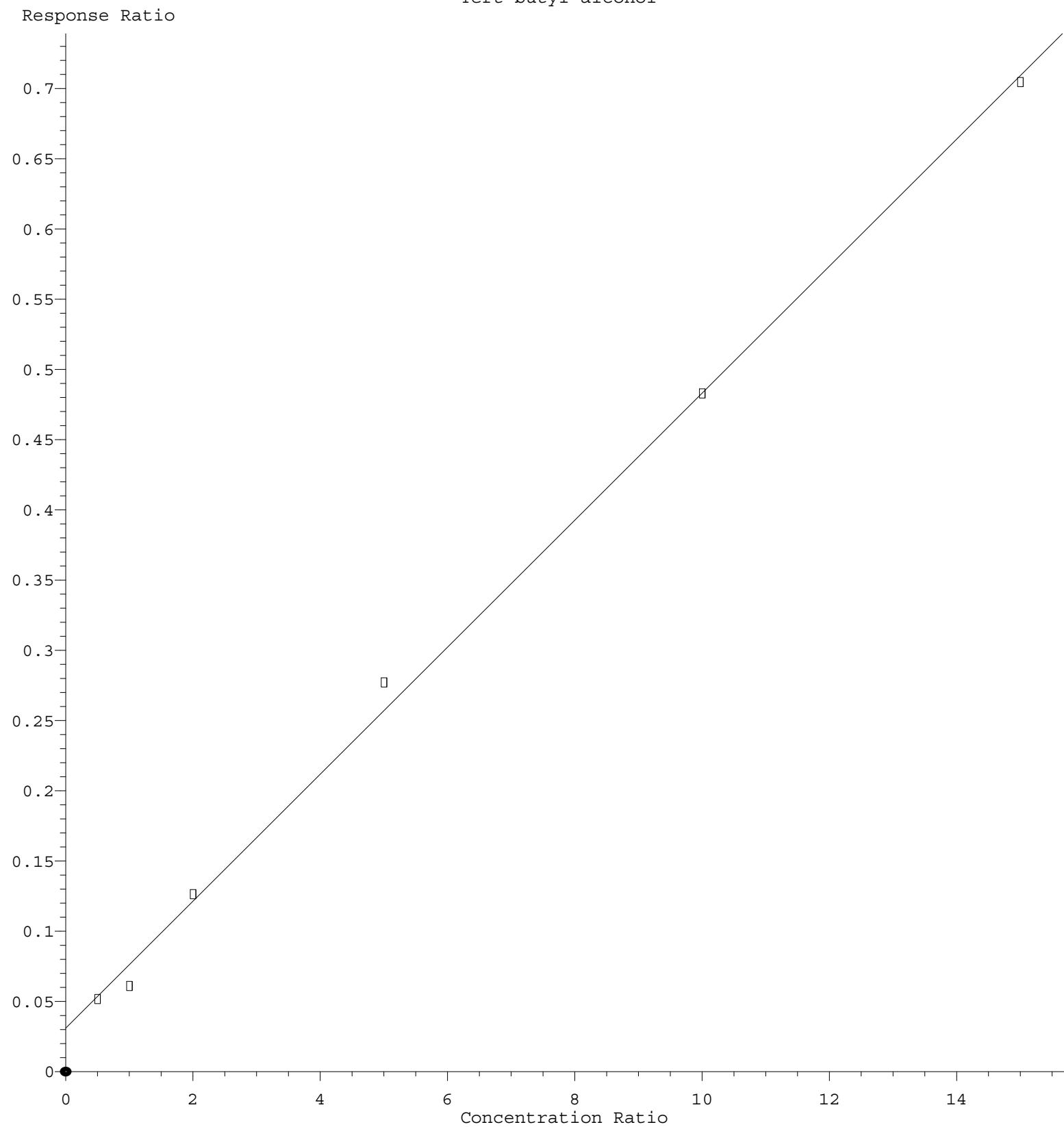
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Acrolein



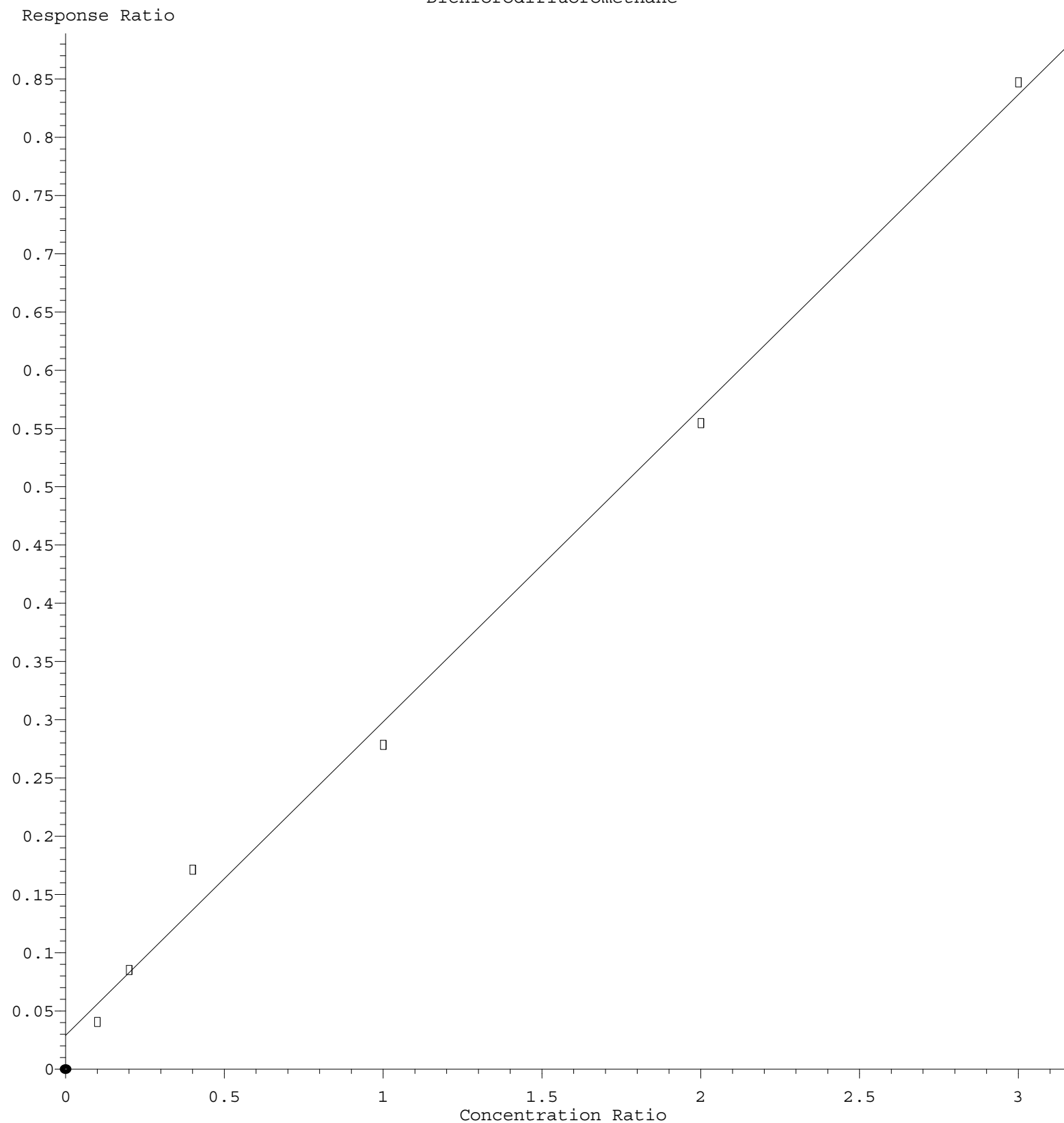
$R = 1.068 \times 10^{-4} A^2 + 9.510 \times 10^{-3} A + 1.149 \times 10^{-2}$
 Coef of Det (r^2) = 0.990735 Curve Fit: Quadratic
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Tert butyl alcohol



Response = $4.524 \times 10^{-2} \times \text{Amt} + 3.129 \times 10^{-2}$
Coef of Det (r^2) = 0.998025 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y111022S.M
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Dichlorodifluoromethane



Response = 2.692e-001 * Amt + 2.895e-002
 Coef of Det (r^2) = 0.995704 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y111022S.M
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