

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL072325AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Thu Jul 24 05:24:41 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042752.D 0.1 =VL042754.D 0.5 =VL042750.D 1 =VL042749.D 2 =VL042748.D 10 =VL042747.D 15 =VL042753.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

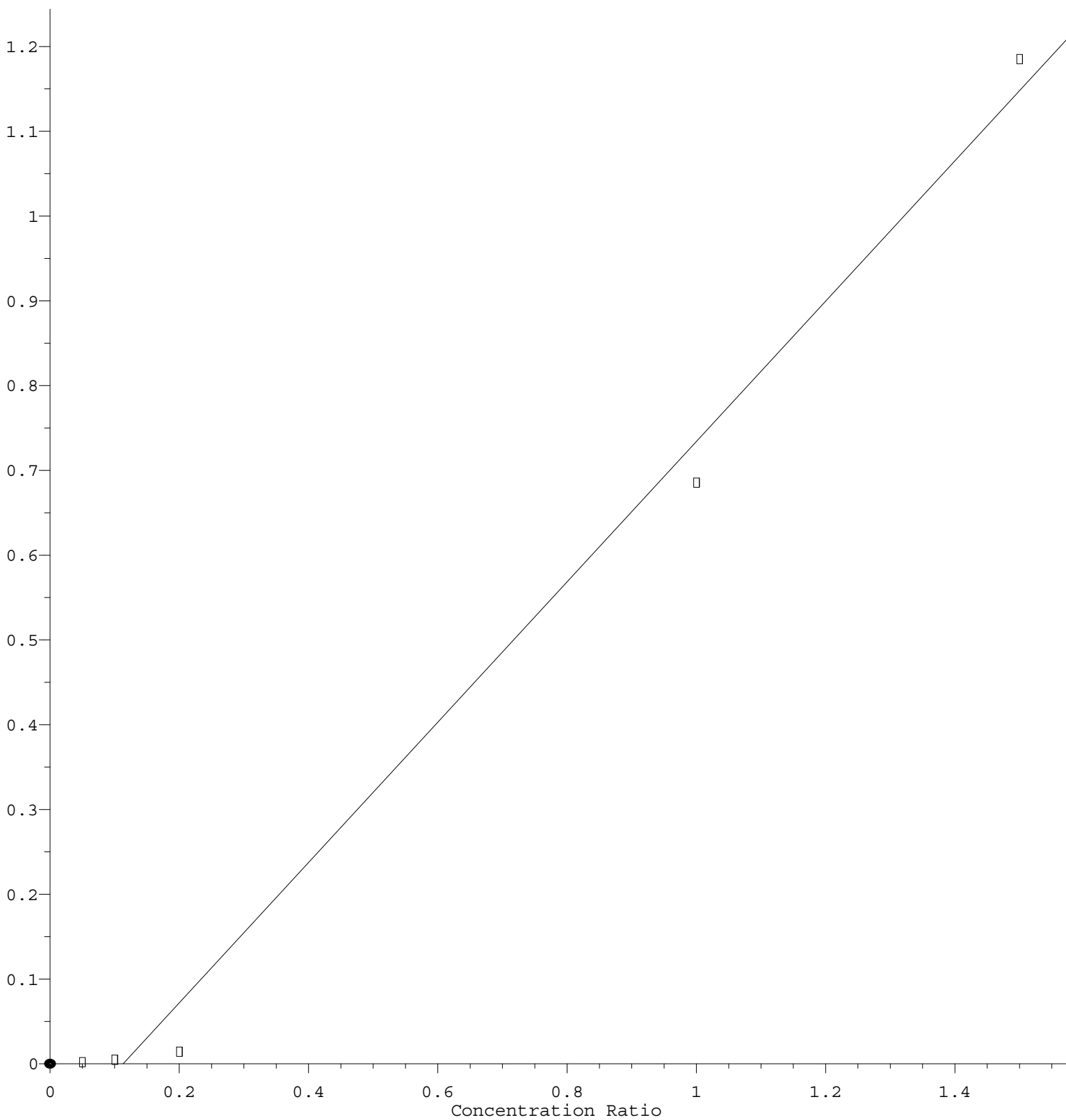
1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.468	1.339	1.377	1.198	1.229	1.322	8.34
3) Chlorodifluoro...			1.890	1.757	1.772	1.625	1.567	1.722	7.41
4) Chloromethane			0.585	0.579	0.531	0.484	0.495	0.535	8.70
5) T Vinyl Chloride	0.825	0.549	0.516	0.476	0.485	0.411	0.437	0.528	26.27
6) T Bromomethane			0.227	0.239	0.181	0.178	0.196	0.204	13.52
7) Chloroethane			0.278	0.196	0.189	0.177	0.181	0.204	20.51
8) T Dichlorotetra...			1.186	1.130	1.123	0.980	1.017	1.087	7.89
9) T Propene			0.621	0.662	0.681	0.594	0.572	0.626	7.25
10) T Heptane			1.719	1.672	1.780	1.633	1.635	1.688	3.68
11) T Trichlorofluor...			1.457	1.435	1.412	1.226	1.285	1.363	7.47
12) T 1,1,2-Trichlor...			1.115	1.063	1.069	0.940	0.991	1.036	6.67
13) Ethanol			0.141	0.104	0.073	0.050	0.049	0.083	46.80
14) T Bromoethene			0.393	0.379	0.381	0.337	0.343	0.367	6.76
15) T Acetone			1.853	1.479	1.521	0.998	1.054	1.381	25.75
16) T 1,3-Butadiene			0.726	0.602	0.583	0.509	0.524	0.589	14.57
17) tert-Butyl alc...			1.366	1.275	1.265	1.165	1.156	1.245	7.01
18) T 1,1-Dichloroet...			0.536	0.530	0.453	0.404	0.417	0.468	13.20
19) T Isopropyl Alcohol			0.857	0.764	0.726	0.659	0.663	0.734	11.12
20) T Methylene Chlo...			0.595	0.458	0.419	0.337	0.367	0.435	23.16
21) T Allyl Chloride			0.903	0.856	0.876	0.798	0.821	0.851	4.92
22) T trans-1,2-Dich...			0.553	0.506	0.523	0.460	0.475	0.503	7.46
23) T Vinyl Acetate			1.643	1.502	1.688	1.704	1.833	1.674	7.14
24) T 1,1-Dichloroet...			1.053	1.117	1.071	0.945	0.981	1.033	6.75
25) T Ethyl Acetate			3.125	3.122	3.212	2.954	2.870	3.056	4.57
26) T Hexane			1.325	1.425	1.433	1.281	1.240	1.341	6.43
27) T Carbon Disulfide			1.146	1.183	1.165	1.088	1.157	1.148	3.13
28) T Methyl tert-Bu...			0.653	0.613	0.650	0.556	0.696	0.633	8.28
29) T Chloroform			2.261	2.104	2.136	1.915	1.943	2.072	6.92
30) T Cyclohexane			1.137	1.140	1.201	1.125	1.083	1.137	3.74
31) T cis-1,2-Dichlo...			1.459	1.406	1.414	1.306	1.304	1.378	5.05
32) T 1,1,1-Trichlor...	2.522	2.330	2.133	2.048	2.132	1.957	1.985	2.158	9.39
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.730	0.713	0.761	0.663	0.675	0.708	5.64
35) T Carbon Tetrach...	0.950	0.692	0.681	0.709	0.735	0.701	0.731	0.743	12.56
36) T Benzene			0.976	0.971	0.995	0.896	0.900	0.948	4.86
37) T 1,2-Dichloroet...			0.595	0.585	0.584	0.537	0.553	0.571	4.34
38) T Trichloroethene	0.511	0.503	0.452	0.459	0.445	0.408	0.409	0.455	8.97
39) T 1,2-Dichloropr...			0.371	0.362	0.363	0.324	0.330	0.350	6.13

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40) T	1,4-Dioxane		0.177	0.170	0.174	0.141	0.153	0.163	9.36
41) T	Tetrahydrofuran		0.361	0.350	0.367	0.362	0.362	0.360	1.74
42) T	Bromodichlorom...		0.720	0.761	0.755	0.723	0.759	0.744	2.75
43) T	Methyl Methacr...		0.321	0.324	0.331	0.348	0.361	0.337	5.05
44) T	2,2,4-Trimethy...		1.515	1.585	1.634	1.486	1.503	1.545	4.03
45) T	t-1,3-Dichloro...		0.357	0.340	0.375	0.402	0.415	0.378	8.21
46) T	cis-1,3-Dichlo...		0.435	0.459	0.479	0.507	0.514	0.479	6.95
47) T	1,1,2-Trichlor...		0.393	0.384	0.385	0.347	0.356	0.373	5.41
48) T	Dibromochlorom...		0.569	0.571	0.600	0.600	0.619	0.592	3.61
49) T	Bromoform		0.483	0.502	0.517	0.529	0.549	0.516	4.87
50) T	4-Methyl-2-Pen...		0.876	0.907	0.956	0.895	0.928	0.912	3.39
51) T	2-Hexanone		0.573	0.647	0.744	0.726	0.757	0.690	11.25
52) T	Tetrachloroethene	0.504 0.422	0.374	0.394	0.378	0.339	0.339	0.393	14.53
53) T	Toluene		0.954	0.993	1.074	1.022	1.045	1.018	4.55
54) T	1,2-Dibromoethane	0.498	0.550	0.531	0.539	0.514	0.529	0.527	3.51
-----ISTD-----									
55) I	Chlorobenzene-d5								
56) T	1,1,1,2-Tetrac...		0.548	0.520	0.541	0.484	0.508	0.520	4.96
57) T	Chlorobenzene		1.019	1.019	1.016	0.879	0.905	0.968	7.22
58) T	Ethyl Benzene		1.426	1.548	1.744	1.551	1.627	1.579	7.40
59) T	m/p-Xylene		1.151	1.275	1.354	1.234	1.296	1.262	6.00
60) T	o-Xylene		1.155	1.280	1.381	1.225	1.264	1.261	6.55
61) T	Styrene		0.450	0.495	0.552	0.561	0.594	0.531	10.81
62) T	Isopropylbenzene		1.722	1.885	2.034	1.793	1.866	1.860	6.27
63) T	1,1,2,2-Tetrac...	1.105 0.785	0.761	0.795	0.803	0.693	0.726	0.810	16.82
64) T	n-propylbenzene		0.437	0.490	0.533	0.469	0.496	0.485	7.31
65) T	tert-Butylbenzene		1.496	1.669	1.839	1.606	1.652	1.652	7.52
66) T	Benzyl Chloride		0.114	0.115	0.128	0.159	0.163	0.136	17.43
67) T	sec-Butylbenzene		2.162	2.474	2.592	2.225	2.297	2.350	7.61
68) S	1-Bromo-4-Fluo...	0.780 0.759	0.782	0.799	0.805	0.801	0.818	0.792	2.50
69) T	p-Isopropyltol...		1.620	1.907	2.137	1.928	1.989	1.916	9.83
70) T	n-Butylbenzene		1.422	1.811	2.090	1.939	1.994	1.851	14.06
71) T	2-Chlorotoluene		1.331	1.444	1.522	1.385	1.451	1.426	5.08
72) T	4-Ethyltoluene		1.292	1.493	1.632	1.524	1.589	1.506	8.74
73) T	1,3,5-Trimethy...		1.096	1.193	1.315	1.275	1.321	1.240	7.70
74) T	1,2,4-Trimethy...		1.115	1.345	1.489	1.384	1.432	1.353	10.61
75) T	1,3-Dichlorobe...		0.914	0.970	1.038	0.887	0.933	0.948	6.14
76) T	1,4-Dichlorobe...		0.862	0.927	1.016	0.896	0.940	0.928	6.19
77) T	1,2-Dichlorobe...		0.920	0.996	1.002	0.848	0.894	0.932	7.10
78) T	Hexachloro-1,3...		0.897	0.908	0.953	0.712	0.748	0.844	12.62
79) T	Naphthalene	0.638	0.485	0.727	0.964	1.417	1.517	0.958	44.34
80) T	Naphthalene,2-...		0.036	0.048	0.071	0.685	0.790	0.326	115.91
81) T	1,2,4-Trichlor...		0.365	0.535	0.627	0.800	0.849	0.635	31.11

(#) = Out of Range

Naphthalene, 2-methyl-

Response Ratio



$$\text{Response} = 8.275\text{e-}001 * \text{Amt} - 9.337\text{e-}002$$

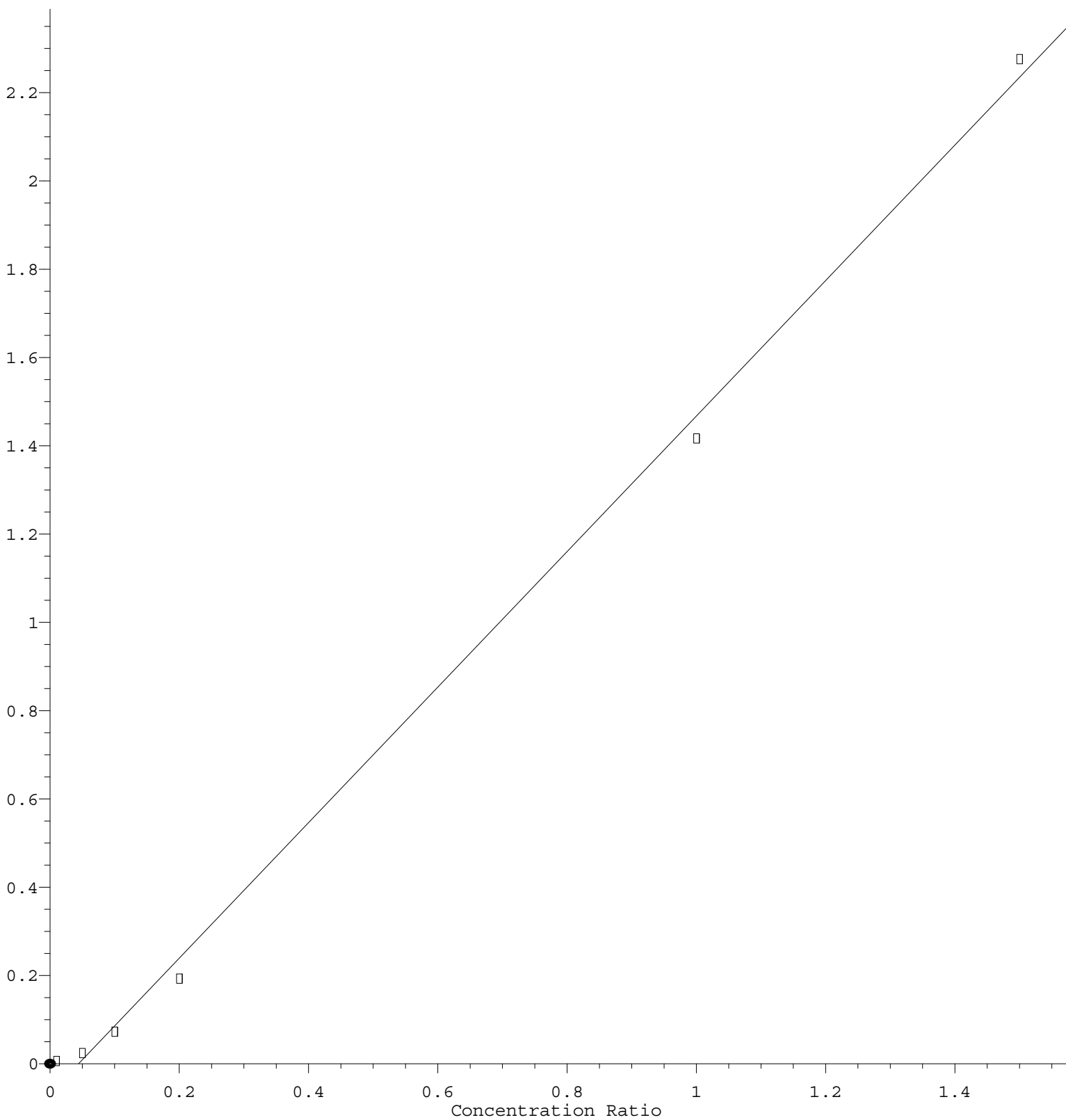
Coef of Det (r^2) = 0.991172 Curve Fit: Linear

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Naphthalene

Response Ratio



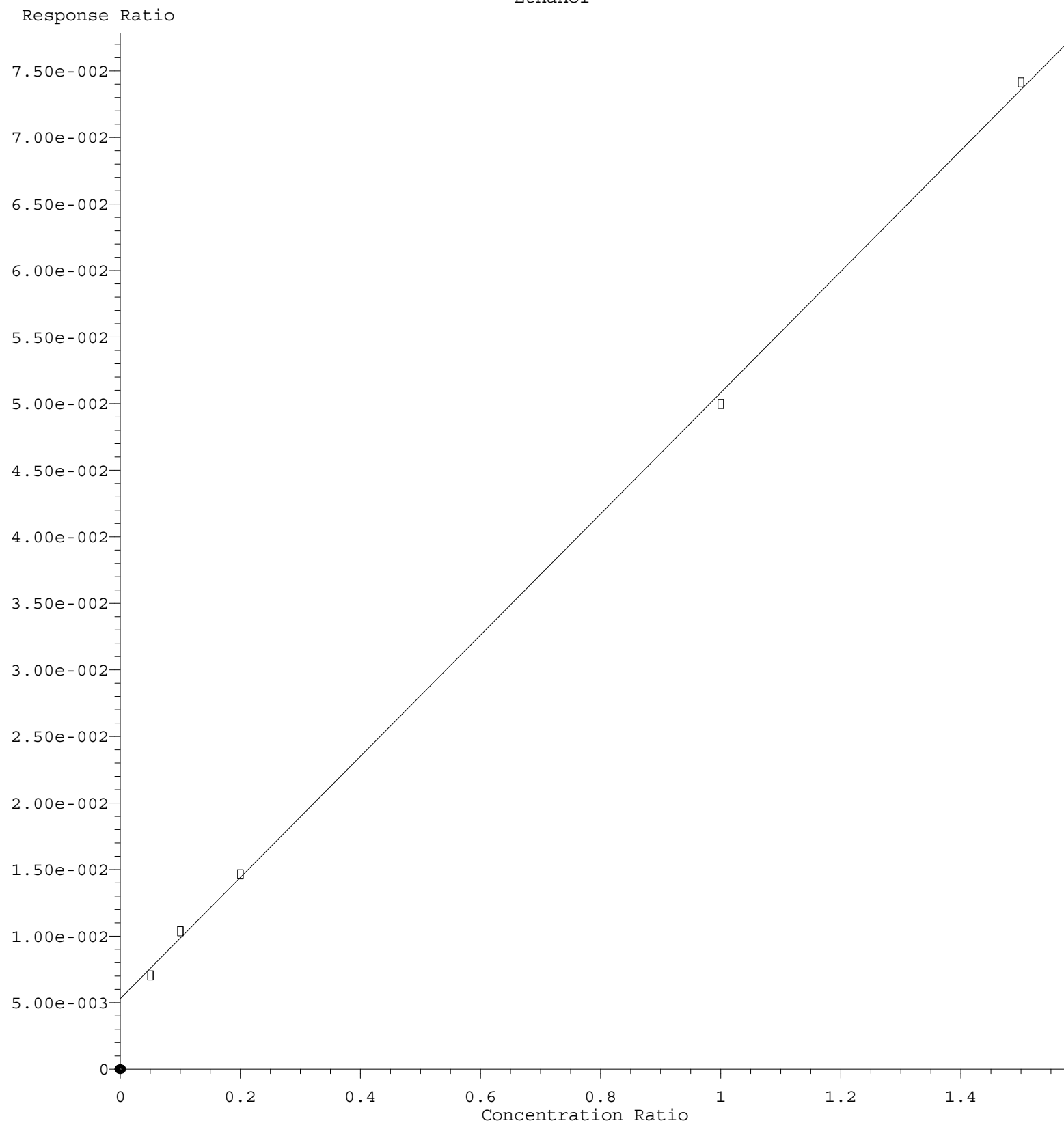
$$\text{Response} = 1.535\text{e}+000 * \text{Amt} - 6.678\text{e}-002$$

Coef of Det (r^2) = 0.997757 Curve Fit: Linear

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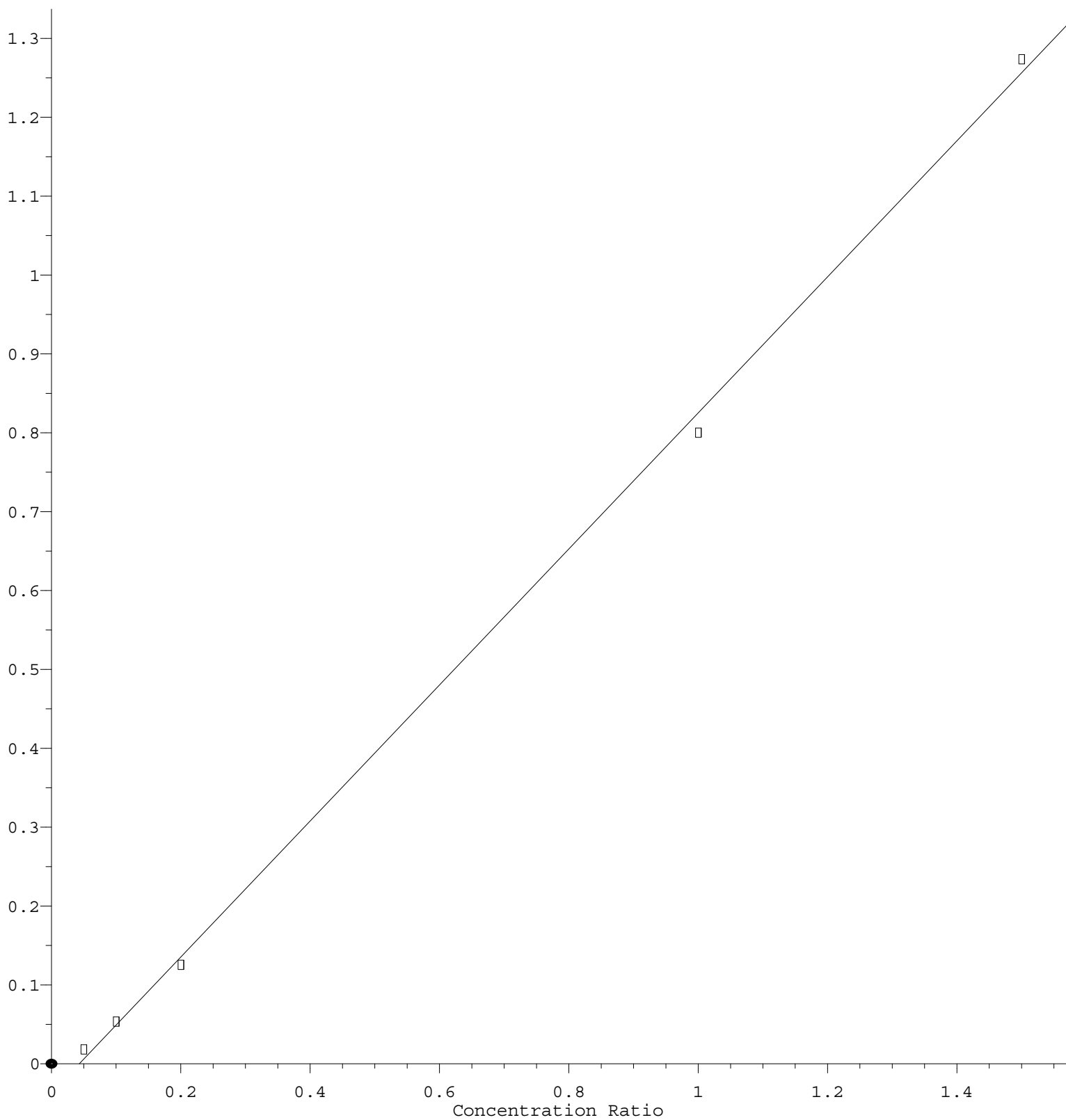
Ethanol



Response = 4.558e-002 * Amt + 5.251e-003
 Coef of Det (r^2) = 0.999534 Curve Fit: Linear
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1,2,4-Trichlorobenzene

Response Ratio



$$\text{Response} = 8.625\text{e-}001 * \text{Amt} - 3.751\text{e-}002$$

Coef of Det (r^2) = 0.999044 Curve Fit: Linear

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