Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 29 00:19:24 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BM041158.D 5 =BM041159.D 10 =BM041160.D 20 =BM041161.D 40 =BM041162.D 50 =BM041163.D 60 =BM041164.D 80 =BM0411
65.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.598	0.607	0.601	0.572	0.543	0.562	0.524	0.572	5.54
3)		Pyridine		1.372	1.497	1.610	1.565	1.488	1.538	1.467	1.505	5.09
4)		n-Nitrosodimet...		0.696	0.712	0.741	0.705	0.665	0.695	0.658	0.696	4.05
5)	S	2-Fluorophenol		1.294	1.392	1.395	1.361	1.305	1.348	1.274	1.338	3.59
6)		Aniline		1.995	2.050	2.173	2.060	1.966	2.031	1.935	2.030	3.81
7)	S	Phenol-d6		1.706	1.763	1.842	1.752	1.678	1.751	1.651	1.735	3.65
8)		2-Chlorophenol		1.342	1.345	1.385	1.313	1.247	1.292	1.221	1.306	4.41
9)		Benzaldehyde			1.086	1.006	0.883	0.795	0.806		0.915	13.90
10)	C	Phenol		1.664	1.717	1.775	1.684	1.612	1.688	1.586	1.675	3.78
11)		bis(2-Chloroet...		1.354	1.416	1.443	1.366	1.283	1.356	1.276	1.356	4.56
12)		1,3-Dichlorobe...		1.462	1.495	1.508	1.416	1.353	1.401	1.319	1.422	4.99
13)	C	1,4-Dichlorobe...		1.487	1.501	1.500	1.418	1.363	1.409	1.327	1.429	4.85
14)		1,2-Dichlorobe...		1.444	1.444	1.440	1.363	1.301	1.342	1.259	1.370	5.47
15)		Benzyl Alcohol		1.115	1.002	1.114	1.109	1.087	1.150	1.090	1.095	4.21
16)		2,2'-oxybis(1-...		1.909	1.876	1.941	1.807	1.699	1.770	1.645	1.807	6.08
17)		2-Methylphenol		1.152	1.136	1.217	1.165	1.103	1.155	1.084	1.145	3.78
18)		Hexachloroethane		0.538	0.531	0.560	0.544	0.514	0.533	0.505	0.532	3.49
19)	P	n-Nitroso-di-n...	1.022	1.024	1.037	1.140	1.082	1.029	1.096	0.999	1.054	4.50
20)		3+4-Methylphenols		1.453	1.524	1.643	1.562	1.489	1.571	1.471	1.530	4.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.511	0.513	0.545	0.539	0.521	0.547	0.531	0.530	2.80
23)	S	Nitrobenzene-d5		0.395	0.420	0.442	0.442	0.429	0.448	0.435	0.430	4.24
24)		Nitrobenzene		0.409	0.430	0.449	0.446	0.428	0.447	0.436	0.435	3.30
25)		Isophorone		0.653	0.682	0.752	0.752	0.731	0.787	0.753	0.730	6.39
26)	C	2-Nitrophenol		0.139	0.148	0.169	0.180	0.177	0.188	0.188	0.170	11.40
27)		2,4-Dimethylph...		0.271	0.290	0.309	0.309	0.298	0.308	0.308	0.299	4.82
28)		bis(2-Chloroet...		0.433	0.448	0.474	0.469	0.447	0.474	0.455	0.457	3.44
29)	C	2,4-Dichloroph...		0.262	0.285	0.312	0.313	0.303	0.322	0.313	0.302	6.97
30)		1,2,4-Trichlor...		0.324	0.328	0.338	0.336	0.328	0.343	0.338	0.333	2.09
31)		Naphthalene		1.089	1.087	1.118	1.089	1.048	1.100	1.066	1.085	2.08
32)		Benzoic acid			0.118	0.167	0.205	0.213	0.243	0.242	0.198	24.33
33)		4-Chloroaniline		0.389	0.418	0.443	0.446	0.431	0.465	0.445	0.434	5.66
34)	C	Hexachlorobuta...		0.196	0.192	0.204	0.204	0.197	0.205	0.204	0.200	2.61
35)		Caprolactam			0.071	0.082	0.089	0.088	0.100	0.093	0.087	11.31
36)	C	4-Chloro-3-met...		0.287	0.297	0.325	0.326	0.318	0.344	0.326	0.318	6.07
37)		2-Methylnaphth...		0.707	0.716	0.751	0.737	0.712	0.764	0.734	0.732	2.88
38)		1-Methylnaphth...		0.673	0.670	0.701	0.689	0.666	0.713	0.682	0.685	2.51

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39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.637	0.663	0.661	0.644	0.660	0.670	0.649	3.16
41)	P	Hexachlorocycl...		0.266	0.320	0.361	0.357	0.362	0.396	0.344	13.11
42)	S	2,4,6-Tribromo...	0.241	0.258	0.285	0.292	0.286	0.313	0.305	0.283	8.96
43)	C	2,4,6-Trichlor...	0.353	0.390	0.425	0.434	0.421	0.444	0.447	0.416	8.15
44)		2,4,5-Trichlor...	0.414	0.455	0.490	0.497	0.489	0.514	0.514	0.482	7.43
45)	S	2-Fluorobiphenyl	1.537	1.543	1.618	1.622	1.552	1.614	1.597	1.583	2.39
46)		1,1'-Biphenyl	1.568	1.603	1.667	1.648	1.585	1.649	1.629	1.621	2.26
47)		2-Chloronaphth...	1.172	1.200	1.240	1.230	1.182	1.225	1.226	1.211	2.17
48)		2-Nitroaniline	0.296	0.330	0.387	0.415	0.406	0.439	0.431	0.386	13.83
49)		Acenaphthylene	1.783	1.890	2.017	2.018	1.930	2.037	2.003	1.954	4.74
50)		Dimethylphthalate	1.429	1.464	1.532	1.524	1.477	1.588	1.518	1.504	3.48
51)		2,6-Dinitrotol...	0.261	0.289	0.318	0.325	0.317	0.342	0.330	0.312	8.87
52)	C	Acenaphthene	1.139	1.153	1.204	1.193	1.153	1.210	1.188	1.177	2.41
53)		3-Nitroaniline	0.231	0.276	0.332	0.354	0.346	0.377	0.368	0.326	16.40
54)	P	2,4-Dinitrophenol		0.118	0.163	0.187	0.189	0.213	0.212	0.180	19.75
55)		Dibenzofuran	1.880	1.907	1.969	1.936	1.865	1.974	1.915	1.921	2.16
56)	P	4-Nitrophenol		0.191	0.246	0.269	0.266	0.297	0.289	0.260	14.63
57)		2,4-Dinitrotol...	0.283	0.341	0.408	0.430	0.427	0.471	0.454	0.402	16.61
58)		Fluorene	1.449	1.458	1.548	1.533	1.487	1.590	1.540	1.515	3.41
59)		2,3,4,6-Tetrac...	0.355	0.367	0.398	0.397	0.390	0.418	0.405	0.390	5.55
60)		Diethylphthalate	1.349	1.387	1.463	1.480	1.444	1.578	1.483	1.455	5.07
61)		4-Chlorophenyl...	0.694	0.721	0.766	0.775	0.753	0.818	0.789	0.759	5.48
62)		4-Nitroaniline	0.166	0.215	0.273	0.313	0.322	0.353	0.346	0.284	24.77
63)		Azobenzene	1.364	1.505	1.650	1.666	1.610	1.722	1.639	1.594	7.60
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.089	0.114	0.127	0.126	0.136	0.135	0.121	14.65
66)	c	n-Nitrosodiphe...	0.578	0.606	0.636	0.644	0.614	0.643	0.634	0.622	3.87
67)		4-Bromophenyl-...	0.200	0.209	0.222	0.225	0.220	0.231	0.228	0.219	5.08
68)		Hexachlorobenzene	0.234	0.238	0.246	0.247	0.239	0.253	0.250	0.244	2.83
69)		Atrazine	0.151	0.164	0.171	0.169	0.164	0.163	0.161	0.163	4.09
70)	C	Pentachlorophenol	0.132	0.150	0.168	0.180	0.176	0.190	0.187	0.169	12.55
71)		Phenanthrene	1.081	1.102	1.122	1.126	1.083	1.145	1.119	1.111	2.14
72)		Anthracene	0.981	1.047	1.115	1.142	1.092	1.168	1.148	1.099	5.99
73)		Carbazole	0.870	0.952	1.005	1.039	1.001	1.061	1.035	0.995	6.54
74)		Di-n-butylphth...	0.892	0.992	1.099	1.196	1.180	1.297	1.212	1.124	12.48
75)	C	Fluoranthene	1.111	1.191	1.239	1.285	1.253	1.348	1.311	1.248	6.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.214	0.253	0.243	0.331	0.287	0.285	0.294	0.273	14.14
78)		Pyrene	1.339	1.317	1.445	1.432	1.388	1.458	1.411	1.399	3.82
79)	S	Terphenyl-d14	1.023	1.028	1.125	1.146	1.120	1.187	1.115	1.106	5.44
80)		Butylbenzylpht...	0.385	0.432	0.504	0.550	0.550	0.593	0.562	0.511	14.84
81)		Benzo(a)anthra...	1.253	1.301	1.389	1.390	1.351	1.420	1.386	1.356	4.35
82)		3,3'-Dichlorob...	0.350	0.407	0.448	0.476	0.458	0.488	0.470	0.442	10.92
83)		Chrysene	1.269	1.286	1.339	1.322	1.282	1.365	1.318	1.311	2.64
84)		Bis(2-ethylhex...	0.511	0.613	0.712	0.794	0.798	0.872	0.810	0.730	17.46
85)	c	Di-n-octyl pht...		1.040	1.185	1.335	1.340	1.475	1.370	1.291	11.95

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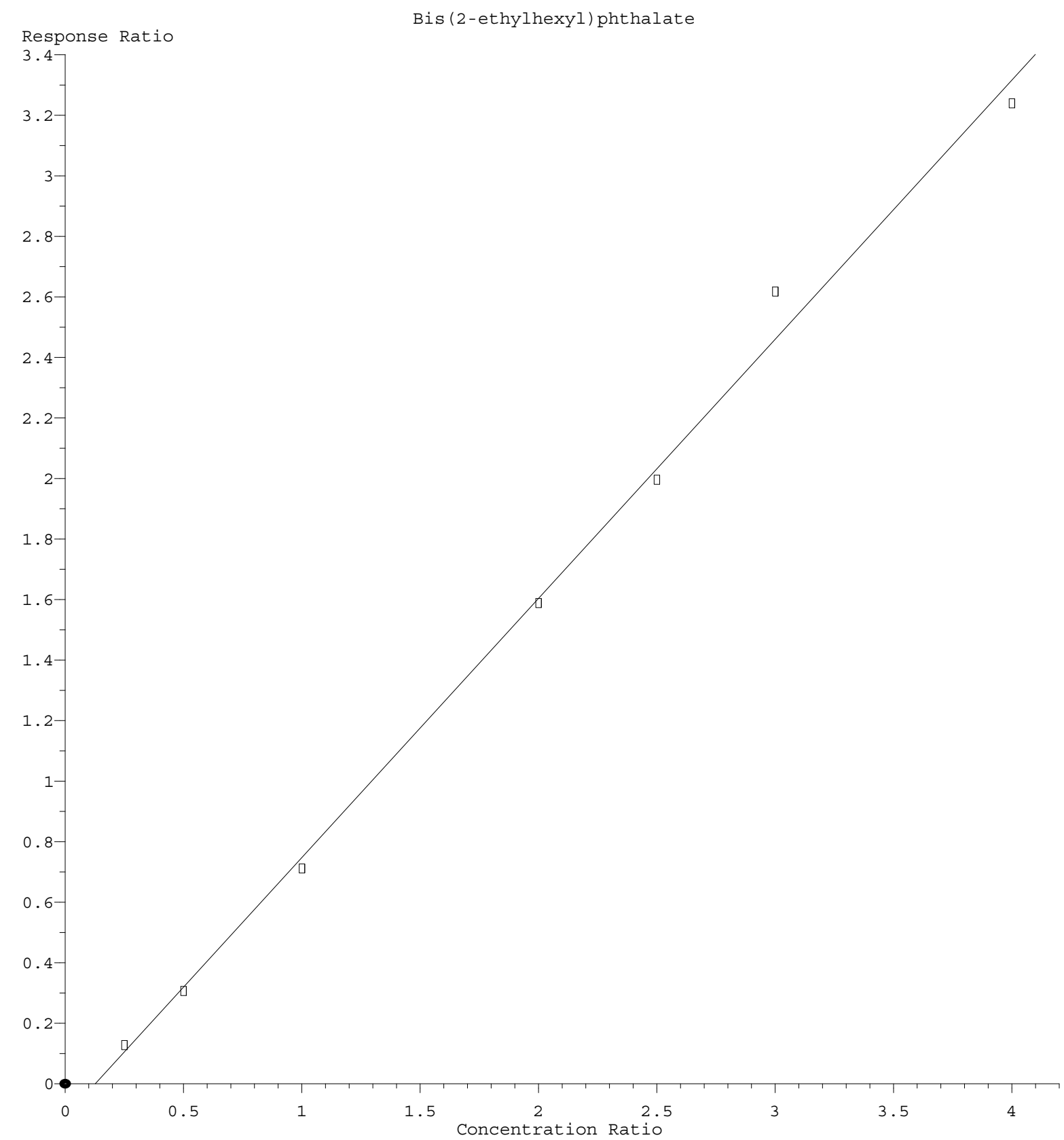
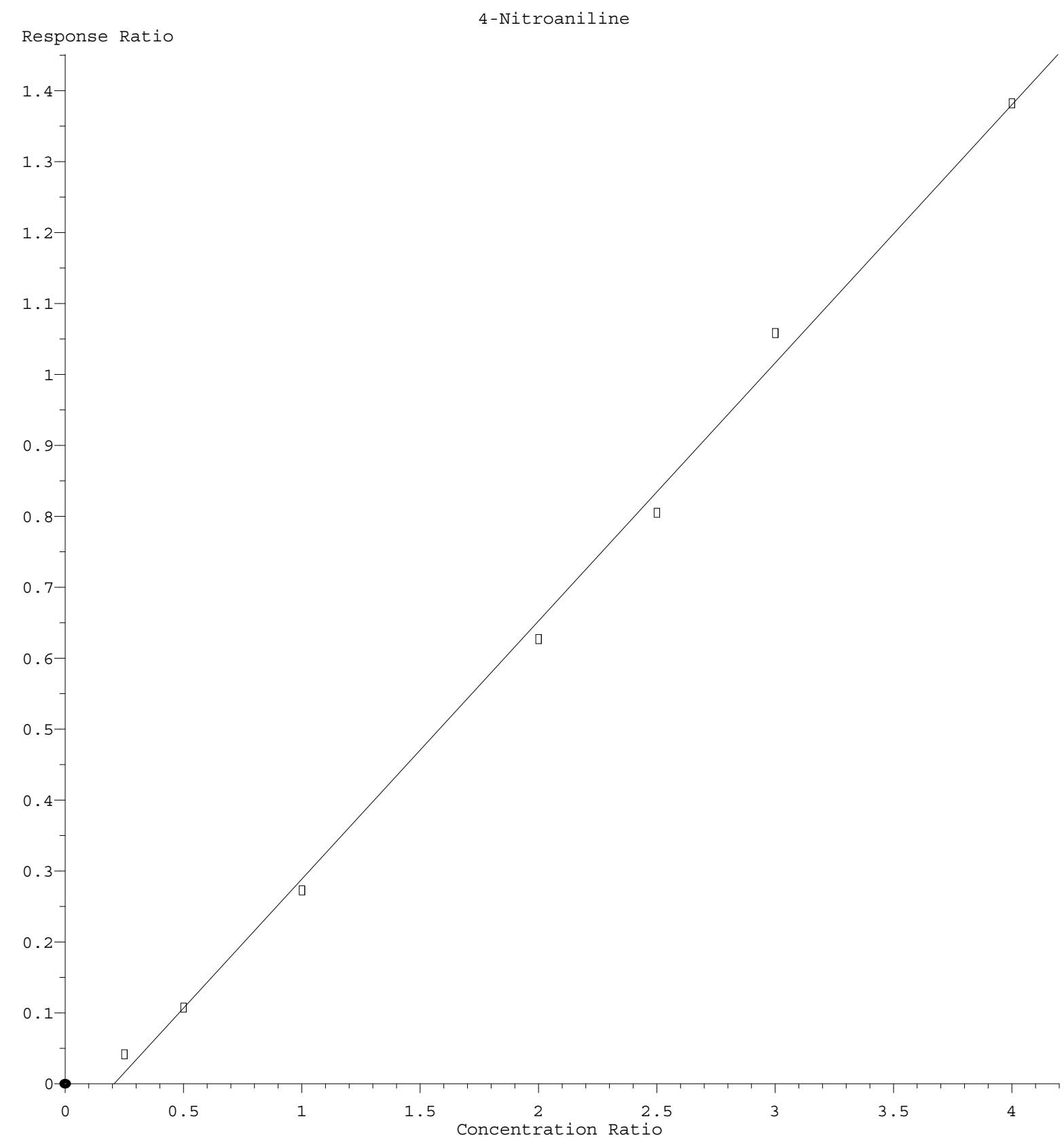
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.322	1.387	1.477	1.519	1.482	1.559	1.546	1.470	5.89
88)		Benzo(b)fluora...	1.097	1.138	1.180	1.211	1.192	1.268	1.231	1.188	4.81
89)		Benzo(k)fluora...	1.096	1.139	1.243	1.291	1.211	1.272	1.255	1.215	5.94
90)	C	Benzo(a)pyrene	1.014	1.059	1.149	1.189	1.164	1.215	1.202	1.142	6.69
91)		Dibenzo(a,h)an...	1.081	1.153	1.221	1.266	1.245	1.312	1.308	1.226	6.85
92)		Benzo(g,h,i)pe...	1.126	1.161	1.219	1.234	1.187	1.247	1.227	1.200	3.67

(#) = Out of Range



Response = 8.564e-001 * Amt - 1.087e-001
Coef of Det (r^2) = 0.995959 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 3.639e-001 * Amt - 7.547e-002
Coef of Det (r^2) = 0.997240 Curve Fit: Linear
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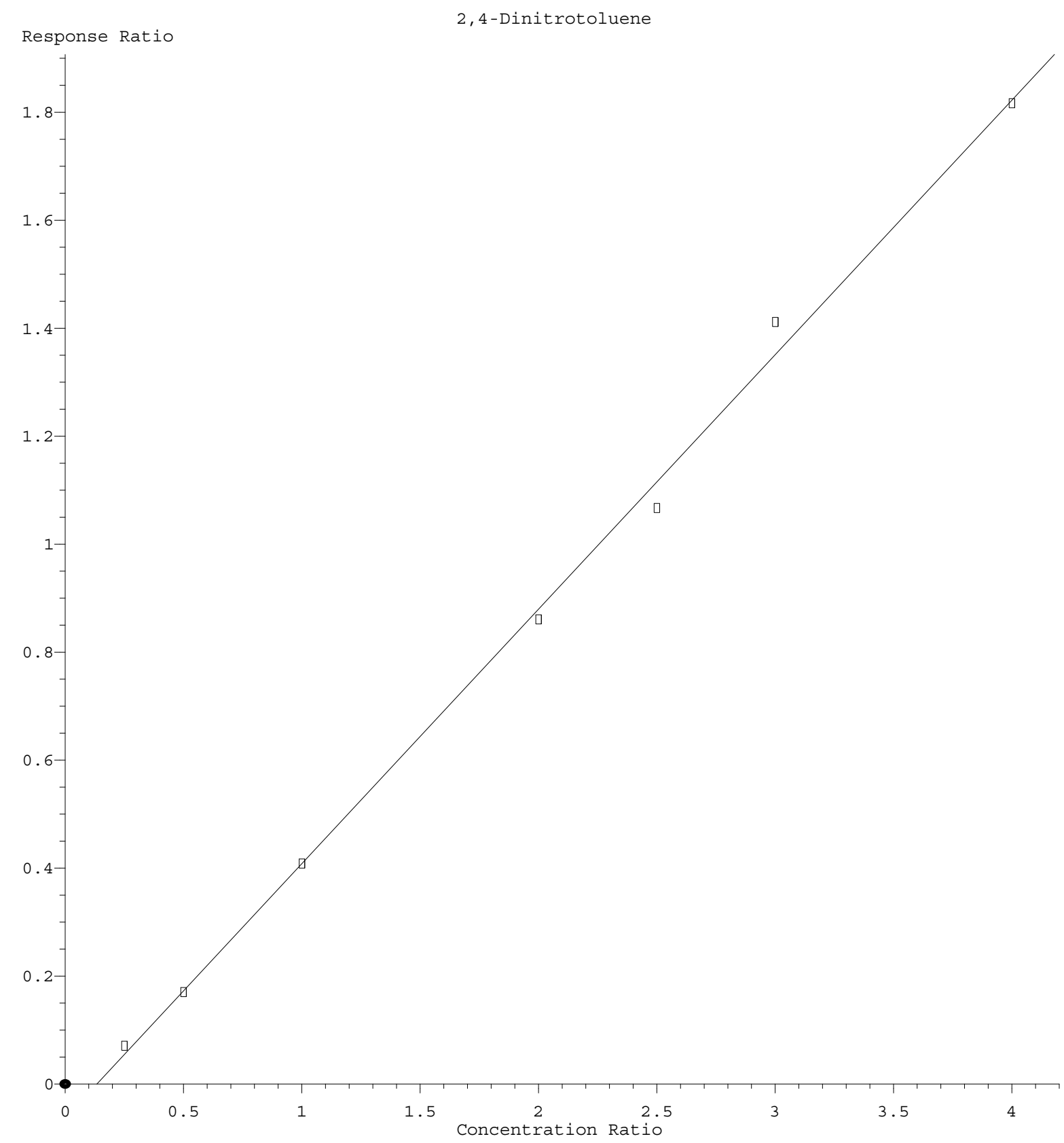
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 4.714e-001 * Amt - 6.294e-002
Coef of Det (r^2) = 0.997396 Curve Fit: Linear
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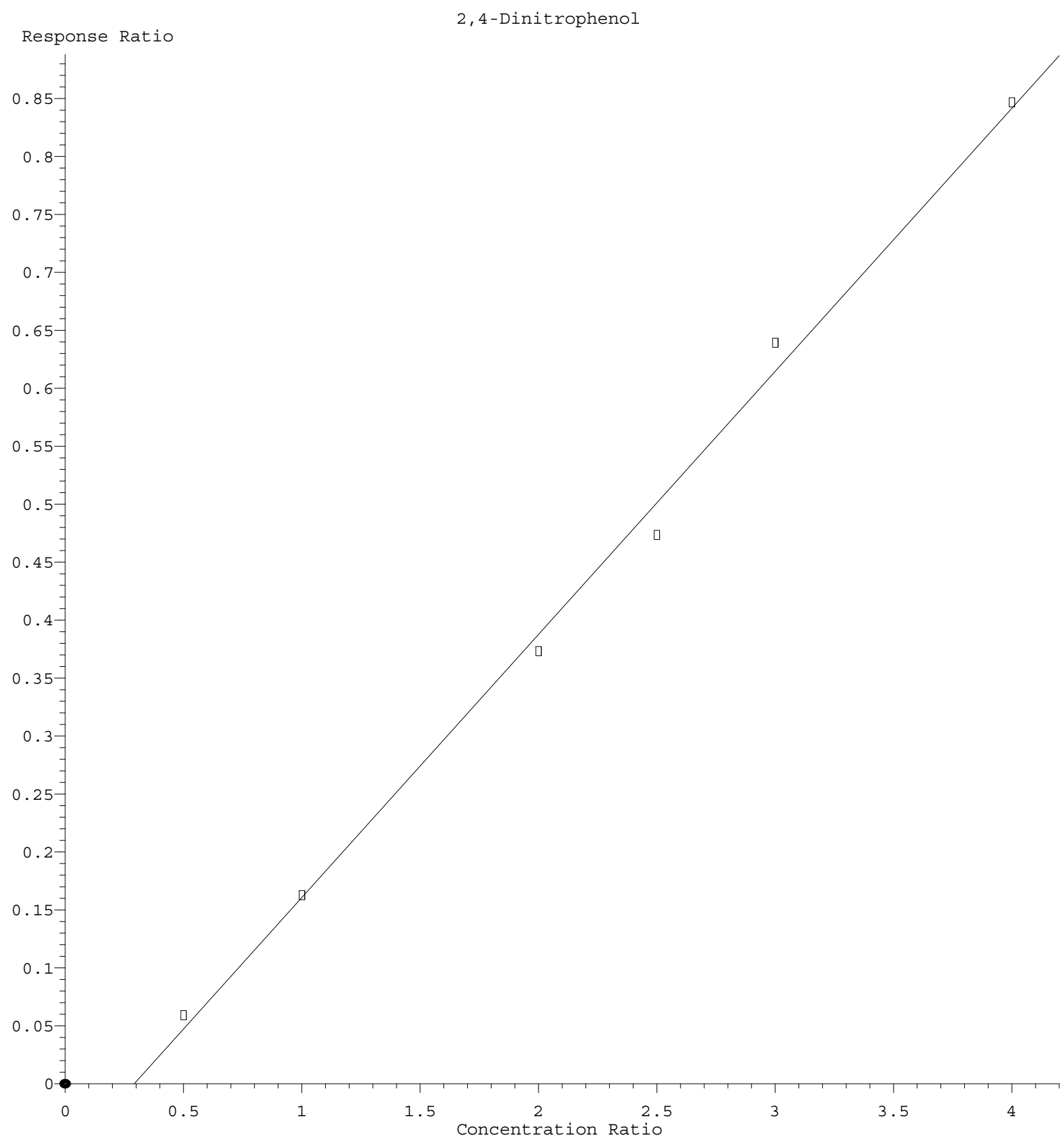
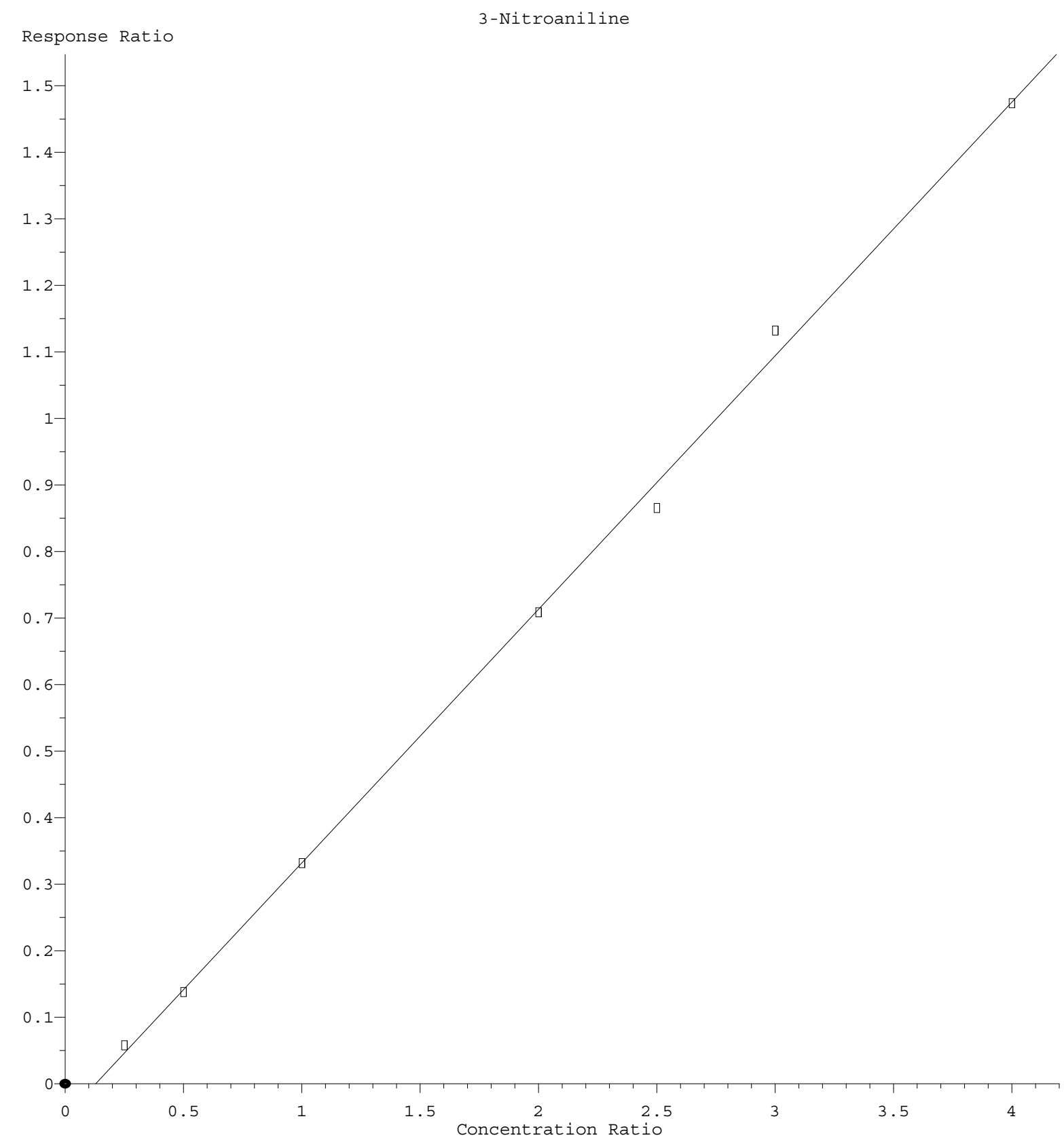
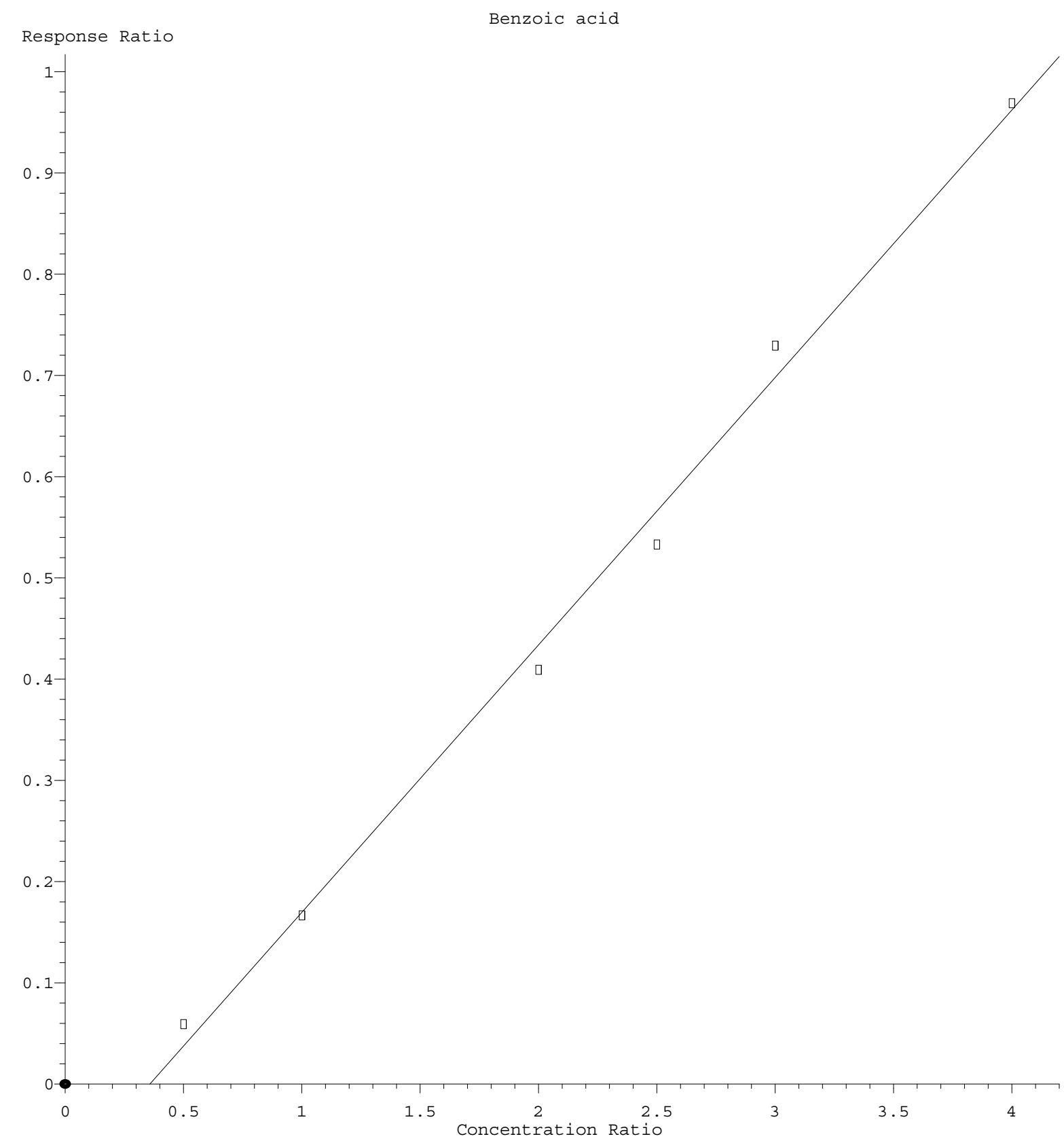
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 2.271e-001 * Amt - 6.624e-002
Coef of Det (r^2) = 0.995929 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 3.812e-001 * Amt - 4.912e-002
Coef of Det (r^2) = 0.998168 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 2.641e-001 * Amt - 9.447e-002
Coef of Det (r^2) = 0.994531 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023