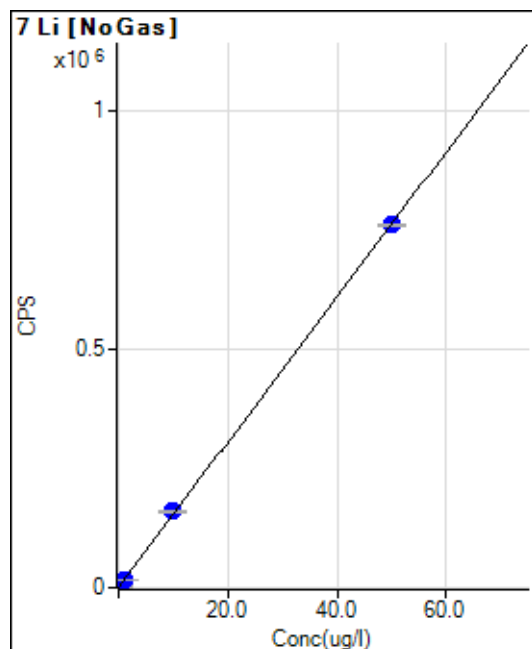


Calibration for 015SMPL.d

Batch Folder: D:\Dane\Batch\Studia Podyplomowe\241012 analiza wielopierwiastkowa.b\
 Analysis File: 241012 analiza wielopierwiastkowa.batch.bin
 DA Date-Time: 10/15/2024 4:13:36 PM
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	009CALB.d	blank1%	10/12/2024 4:42:19 PM
2	010CALS.d	wz. 0.1 ug/L	10/12/2024 4:44:22 PM
3	011CALS.d	wz. 1 ug/L	10/12/2024 4:46:25 PM
4	012CALS.d	wz. 10 ug/L	10/12/2024 4:48:27 PM
5	013CALS.d	wz. 50 ug/L	10/12/2024 4:50:52 PM
6			
7			
8			
9			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	540		P	13.1
2	<input type="checkbox"/>	0.100	0.109	2 195		P	4.2
3	<input type="checkbox"/>	1.000	1.059	16 663		P	1.6
4	<input type="checkbox"/>	10.000	10.428	159 354		P	0.5
5	<input type="checkbox"/>	50.000	49.913	760 665		P	0.4
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 15228.9679 * x + 540.0167$$

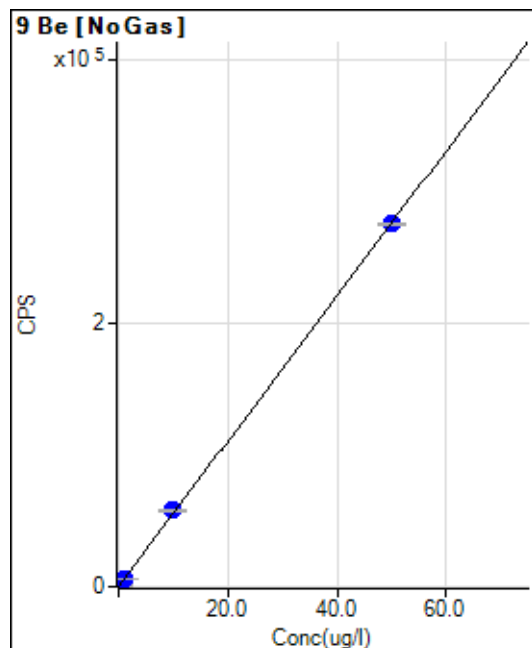
$$R = 1.0000$$

$$DL = 0.01398$$

$$BEC = 0.03546$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	43		P	13.3
2	<input type="checkbox"/>	0.100	0.125	732		P	9.3
3	<input type="checkbox"/>	1.000	1.103	6 132		P	0.6
4	<input type="checkbox"/>	10.000	10.489	57 921		P	1.3
5	<input type="checkbox"/>	50.000	49.900	275 400		P	0.5
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 5518.1451 * x + 43.3367$$

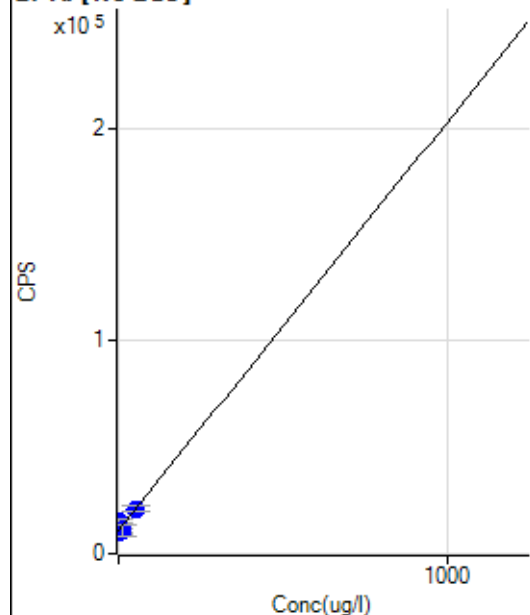
$$R = 0.9999$$

$$DL = 0.003139$$

$$BEC = 0.007853$$

Weight: <None>

Min Conc: <None>

27 Al [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	10 977		P	19.0
2	<input type="checkbox"/>	0.100	-3.590	10 287		P	20.3
3	<input type="checkbox"/>	1.000	22.218	15 251		P	13.9
4	<input type="checkbox"/>	10.000	-1.165	10 753		P	44.7
5	<input type="checkbox"/>	50.000	51.816	20 943		P	12.6
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 192.3359 * x + 10977.2533$$

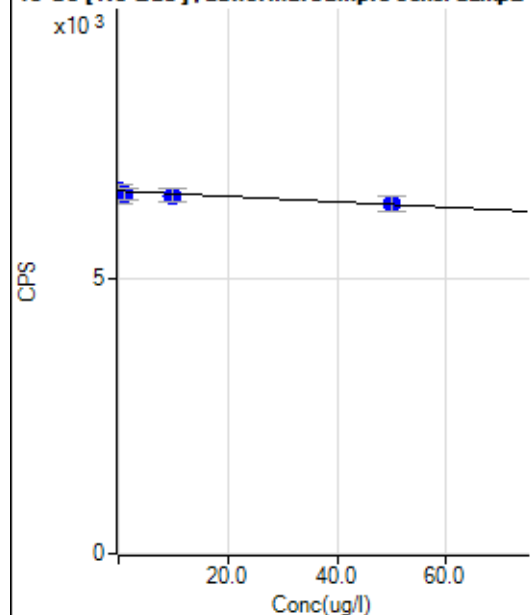
$$R = 0.8622$$

$$DL = 32.59$$

$$BEC = 57.07$$

Weight: <None>

Min Conc: <None>

45 Sc [No Gas] , abnormal sample conc. Samp_

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	6 589		P	3.4
2	<input type="checkbox"/>	0.100	22.065	6 480		P	4.2
3	<input type="checkbox"/>	1.000	11.932	6 530		P	3.1
4	<input type="checkbox"/>	10.000	15.537	6 512		P	3.6
5	<input type="checkbox"/>	50.000	48.630	6 349		P	4.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = -4.9367 * x + 6589.0967$$

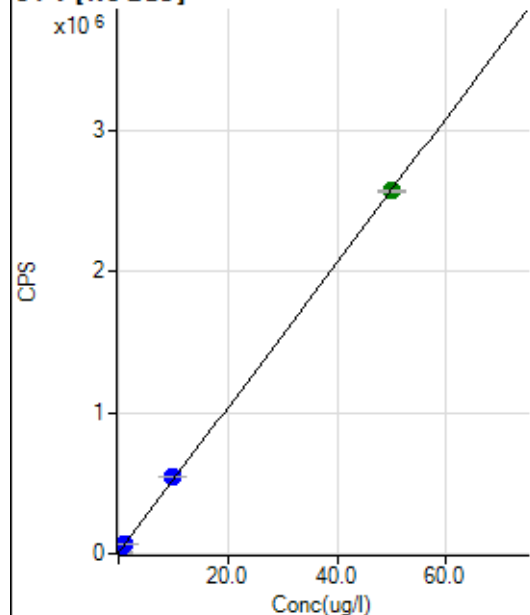
$$R = -0.8998$$

$$DL = -134.8$$

$$BEC = -1335$$

Weight: <None>

Min Conc: <None>

51 V [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	6 192		P	7.6
2	<input type="checkbox"/>	0.100	0.117	12 196		P	10.8
3	<input type="checkbox"/>	1.000	1.133	64 360		P	2.0
4	<input type="checkbox"/>	10.000	10.523	546 429		P	0.4
5	<input type="checkbox"/>	50.000	49.893	2 567 672		A	0.5
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 51339.7361 * x + 6191.5133$$

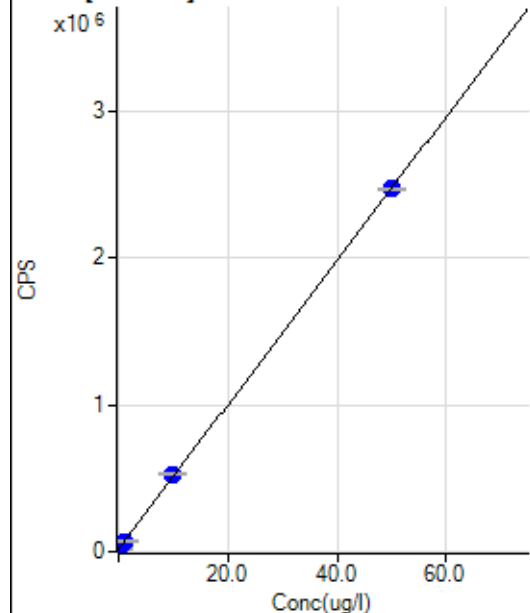
$$R = 0.9999$$

$$DL = 0.02757$$

$$BEC = 0.1206$$

Weight: <None>

Min Conc: <None>

52 Cr [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	18 279		P	2.5
2	<input type="checkbox"/>	0.100	0.118	24 089		P	1.8
3	<input type="checkbox"/>	1.000	1.085	71 569		P	1.4
4	<input type="checkbox"/>	10.000	10.418	529 876		P	0.2
5	<input type="checkbox"/>	50.000	49.915	2 469 561		P	0.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 49109.3682 * x + 18278.6900$$

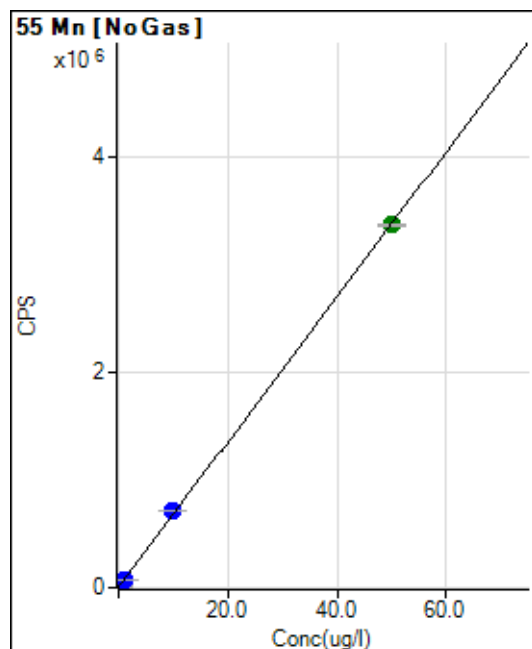
$$R = 1.0000$$

$$DL = 0.02789$$

$$BEC = 0.3722$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	3 161		P	8.9
2	<input type="checkbox"/>	0.100	0.120	11 218		P	5.1
3	<input type="checkbox"/>	1.000	1.101	77 285		P	2.1
4	<input type="checkbox"/>	10.000	10.555	713 770		P	0.5
5	<input type="checkbox"/>	50.000	49.887	3 361 654		A	0.6
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 67322.1669 * x + 3161.4433$$

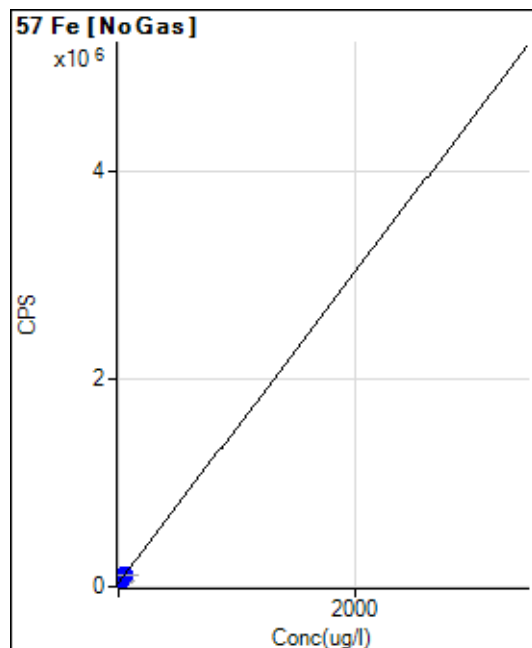
$$R = 0.9999$$

$$DL = 0.01255$$

$$BEC = 0.04696$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	34 866		P	1.7
2	<input type="checkbox"/>	0.100	0.716	35 942		P	0.8
3	<input type="checkbox"/>	1.000	2.395	38 464		P	1.4
4	<input type="checkbox"/>	10.000	10.903	51 248		P	1.5
5	<input type="checkbox"/>	50.000	49.790	109 671		P	1.1
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 1502.4012 * x + 34866.3000$$

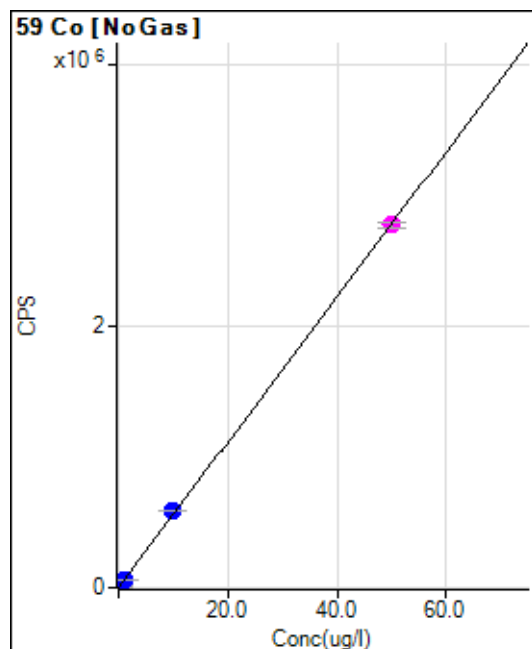
$$R = 0.9997$$

$$DL = 1.149$$

$$BEC = 23.21$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	1 041		P	19.6
2	<input type="checkbox"/>	0.100	0.114	7 402		P	6.8
3	<input type="checkbox"/>	1.000	1.077	60 904		P	1.3
4	<input type="checkbox"/>	10.000	10.481	583 854		P	0.3
5	<input type="checkbox"/>	50.000	49.902	2 776 003		M	1.6
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 55607.9051 * x + 1041.1600$$

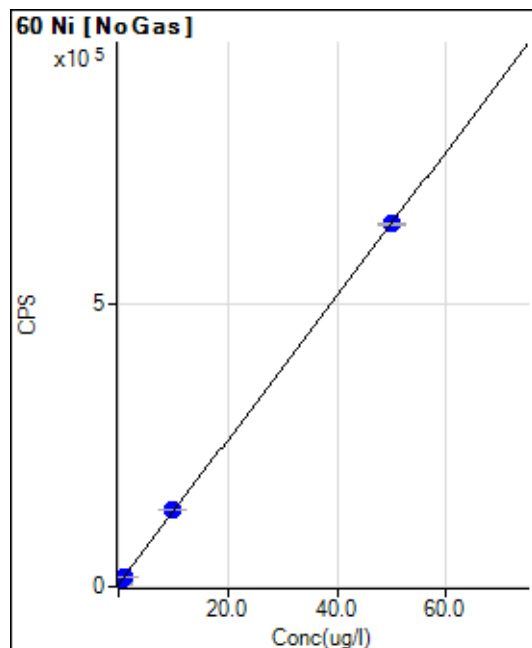
$$R = 1.0000$$

$$DL = 0.011$$

$$BEC = 0.01872$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	3 943		P	9.5
2	<input type="checkbox"/>	0.100	0.135	5 670		P	6.6
3	<input type="checkbox"/>	1.000	1.081	17 754		P	2.7
4	<input type="checkbox"/>	10.000	10.306	135 642		P	0.4
5	<input type="checkbox"/>	50.000	49.937	642 082		P	0.3
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 12778.8532 * x + 3942.7300$$

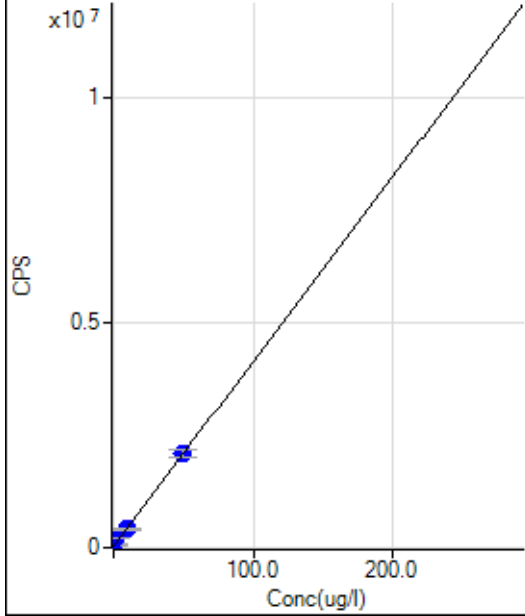
$$R = 1.0000$$

$$DL = 0.08805$$

$$BEC = 0.3085$$

Weight: <None>

Min Conc: <None>

63 Cu [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	30 704		P	36.9
2	<input type="checkbox"/>	0.100	0.943	69 332		P	64.8
3	<input type="checkbox"/>	1.000	4.584	218 401		P	14.3
4	<input type="checkbox"/>	10.000	9.217	408 078		P	9.0
5	<input type="checkbox"/>	50.000	50.083	2 081 237		P	7.1
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 40942.5378 * x + 30703.7500$$

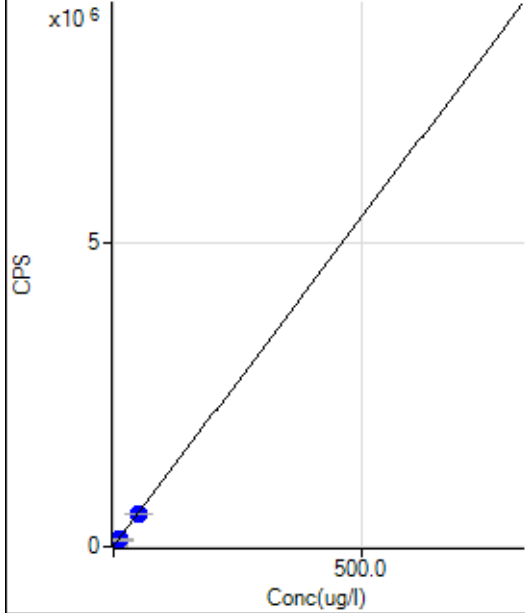
$$R = 0.9971$$

$$DL = 0.8302$$

$$BEC = 0.7499$$

Weight: <None>

Min Conc: <None>

66 Zn [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	6 503		P	35.5
2	<input type="checkbox"/>	0.100	1.349	21 136		P	66.6
3	<input type="checkbox"/>	1.000	1.268	20 259		P	8.3
4	<input type="checkbox"/>	10.000	9.887	113 754		P	6.8
5	<input type="checkbox"/>	50.000	50.015	549 033		P	1.1
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 10847.4197 * x + 6502.5600$$

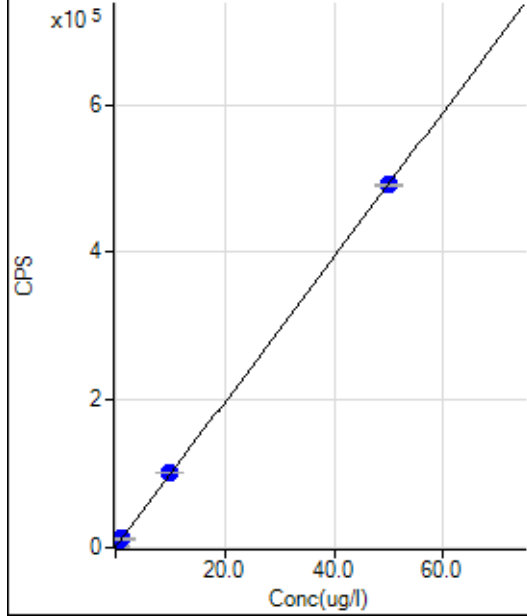
$$R = 0.9997$$

$$DL = 0.6387$$

$$BEC = 0.5995$$

Weight: <None>

Min Conc: <None>

75 As [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	412		P	16.5
2	<input type="checkbox"/>	0.100	0.105	1 450		P	5.2
3	<input type="checkbox"/>	1.000	1.153	11 758		P	2.0
4	<input type="checkbox"/>	10.000	10.373	102 446		P	0.4
5	<input type="checkbox"/>	50.000	49.922	491 474		P	0.6
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 9836.5144 * x + 412.3167$$

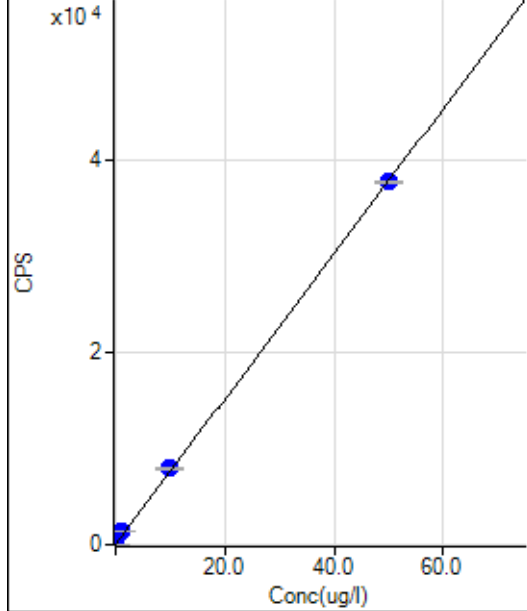
$$R = 1.0000$$

$$DL = 0.0208$$

$$BEC = 0.04192$$

Weight: <None>

Min Conc: <None>

82 Se [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	20		P	105.2
2	<input type="checkbox"/>	0.100	0.039	50		P	44.1
3	<input type="checkbox"/>	1.000	1.922	1 472		P	0.8
4	<input type="checkbox"/>	10.000	10.470	7 928		P	3.7
5	<input type="checkbox"/>	50.000	49.888	37 700		P	0.5
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 755.2947 * x + 20.3867$$

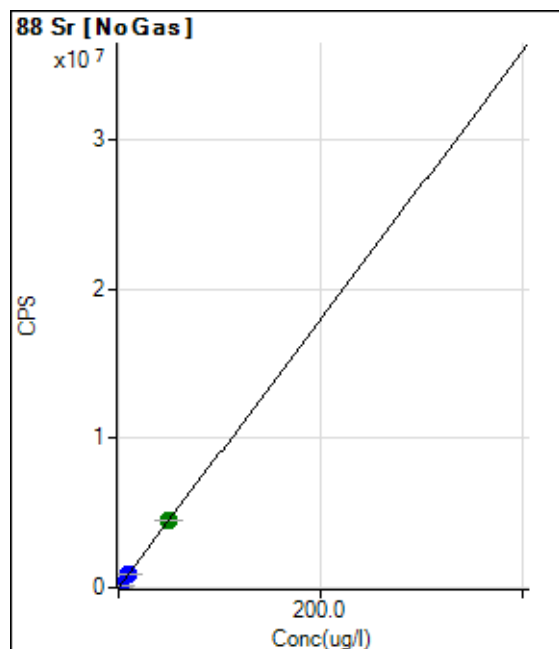
$$R = 0.9998$$

$$DL = 0.08519$$

$$BEC = 0.02699$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	4 718		P	16.0
2	<input type="checkbox"/>	0.100	0.099	13 593		P	7.4
3	<input type="checkbox"/>	1.000	1.078	101 432		P	2.4
4	<input type="checkbox"/>	10.000	10.559	952 304		P	0.5
5	<input type="checkbox"/>	50.000	49.887	4 481 486		A	0.7
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 89738.9515 * x + 4717.5967$$

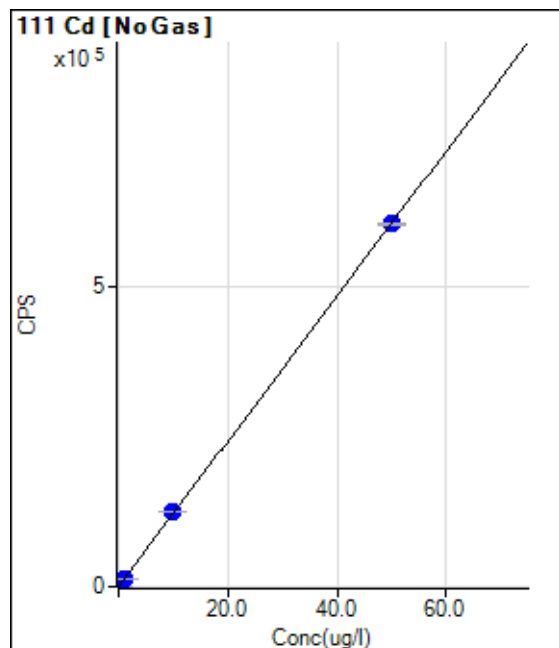
$$R = 0.9999$$

$$DL = 0.02527$$

$$BEC = 0.05257$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	99		P	54.0
2	<input type="checkbox"/>	0.100	0.106	1 381		P	8.5
3	<input type="checkbox"/>	1.000	1.050	12 845		P	1.5
4	<input type="checkbox"/>	10.000	10.287	124 911		P	0.5
5	<input type="checkbox"/>	50.000	49.942	606 058		P	0.3
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 12133.3255 * x + 99.2867$$

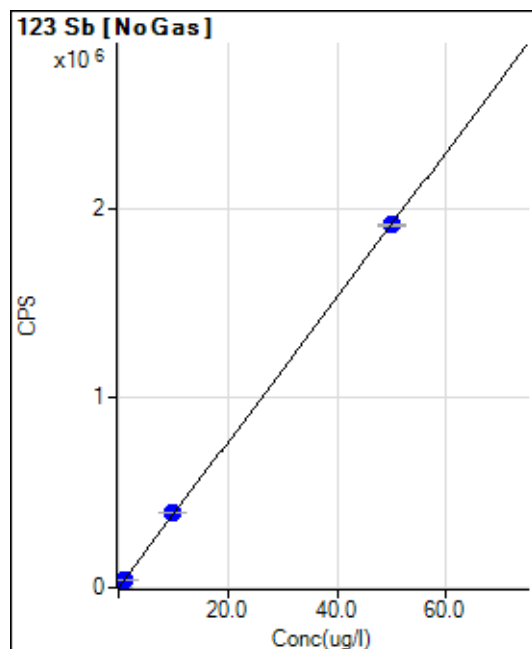
$$R = 1.0000$$

$$DL = 0.01325$$

$$BEC = 0.008183$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	280		P	36.5
2	<input type="checkbox"/>	0.100	0.113	4 617		P	6.7
3	<input type="checkbox"/>	1.000	1.040	40 058		P	2.9
4	<input type="checkbox"/>	10.000	10.246	392 163		P	0.5
5	<input type="checkbox"/>	50.000	49.950	1 910 744		P	0.4
6	<input type="checkbox"/>	1.000					
7	<input type="checkbox"/>	1.000					
8	<input type="checkbox"/>	1.000					
9	<input type="checkbox"/>	1.000					

$$y = 38247.5497 * x + 280.0067$$

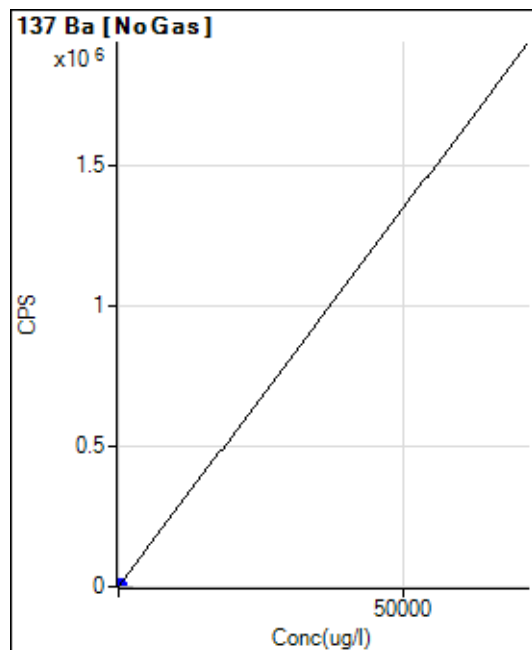
$$R = 1.0000$$

$$DL = 0.008012$$

$$BEC = 0.007321$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	440		P	13.6
2	<input type="checkbox"/>	0.100	-8.049	223		P	21.2
3	<input type="checkbox"/>	1.000	6.068	603		P	32.7
4	<input type="checkbox"/>	10.000	3.220	527		P	9.0
5	<input type="checkbox"/>	50.000	51.271	1 820		P	9.1
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 26.9192 * x + 440.0233$$

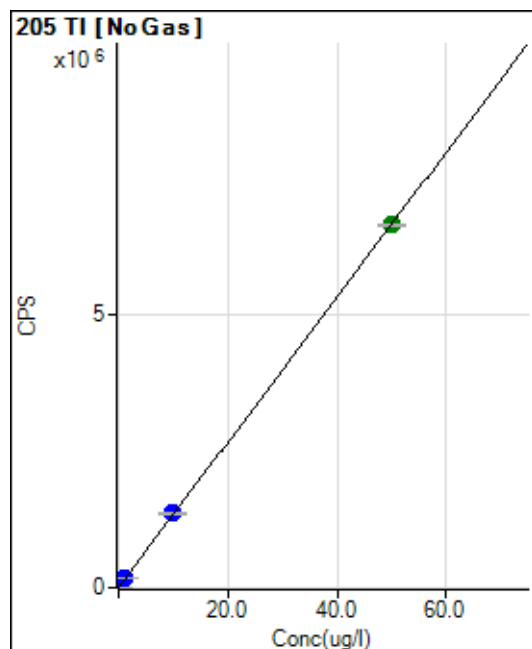
$$R = 0.9724$$

$$DL = 6.687$$

$$BEC = 16.35$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	1 759		P	13.6
2	<input type="checkbox"/>	0.100	0.106	15 924		P	3.0
3	<input type="checkbox"/>	1.000	1.200	161 545		P	1.8
4	<input type="checkbox"/>	10.000	10.215	1 361 819		P	0.8
5	<input type="checkbox"/>	50.000	49.953	6 652 649		A	0.4
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 133143.0115 * x + 1759.0167$$

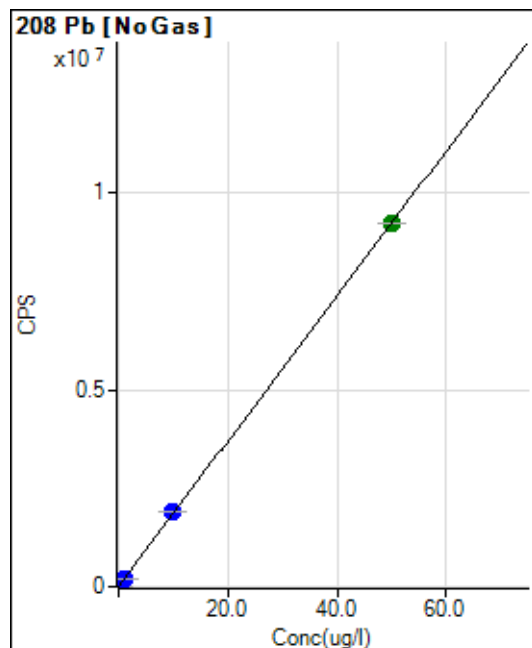
$$R = 1.0000$$

$$DL = 0.005397$$

$$BEC = 0.01321$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	3 597		P	31.3
2	<input type="checkbox"/>	0.100	0.103	22 657		P	7.6
3	<input type="checkbox"/>	1.000	1.050	197 382		P	1.5
4	<input type="checkbox"/>	10.000	10.397	1 922 667		P	0.5
5	<input type="checkbox"/>	50.000	49.920	9 217 304		A	0.1
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 184571.2892 * x + 3596.8933$$

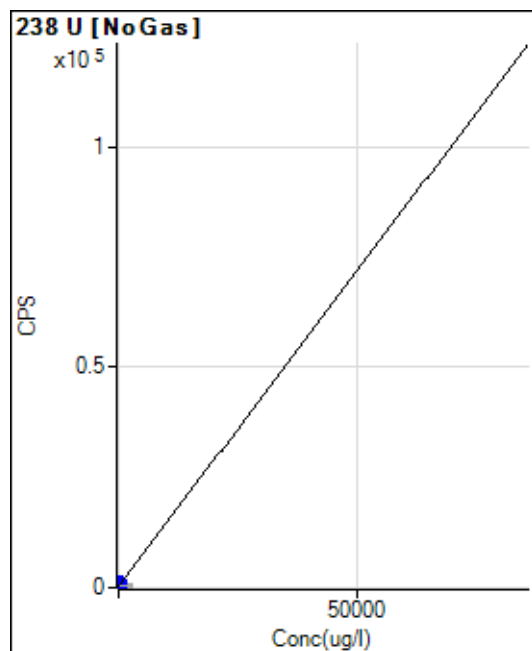
$$R = 1.0000$$

$$DL = 0.01831$$

$$BEC = 0.01949$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	264		P	50.3
2	<input type="checkbox"/>	0.100	377.333	807		P	40.3
3	<input type="checkbox"/>	1.000	-65.719	170		P	10.9
4	<input type="checkbox"/>	10.000	-131.443	76		P	25.1
5	<input type="checkbox"/>	50.000	78.868	378		P	7.3
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 1.4371 * x + 264.4500$$

$$R = -0.0331$$

$$DL = 277.9$$

$$BEC = 184$$

Weight: <None>

Min Conc: <None>