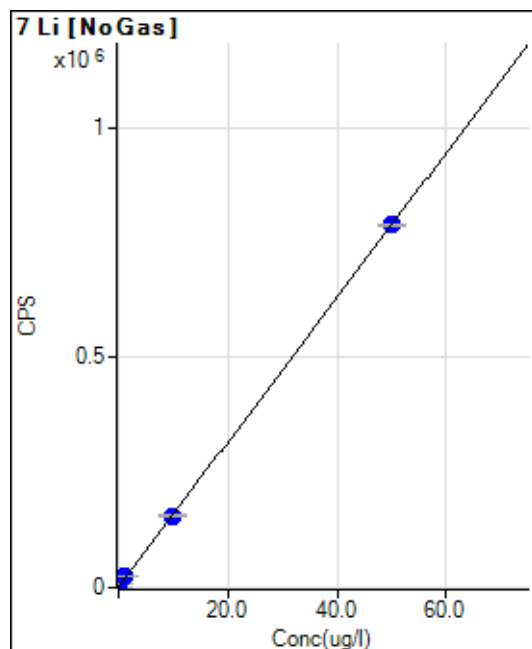


Calibration for 003CALS.d

Batch Folder: D:\Dane\Batch\Studia Podyplomowe\241012 analiza wielopierwiastkowa.b\
 Analysis File: 241012 analiza wielopierwiastkowa.batch.bin
 DA Date-Time: 10/15/2024 4:03:09 PM
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	001CALB.d	blank1%	10/12/2024 4:19:17 PM
2	002CALS.d	wz. 0.1 ug/L	10/12/2024 4:21:25 PM
3	003CALS.d	wz. 1 ug/L	10/12/2024 4:23:42 PM
4	004CALS.d	wz. 10 ug/L	10/12/2024 4:26:04 PM
5	005CALS.d	wz. 50 ug/L	10/12/2024 4:28:08 PM
6			
7			
8			
9			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	1 143		P	7.1
2	<input type="checkbox"/>	0.100	0.492	8 896		P	1.9
3	<input type="checkbox"/>	1.000	1.496	24 713		P	2.6
4	<input type="checkbox"/>	10.000	9.872	156 646		P	0.5
5	<input type="checkbox"/>	50.000	50.015	789 010		P	0.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 15752.6077 * x + 1143.3833$$

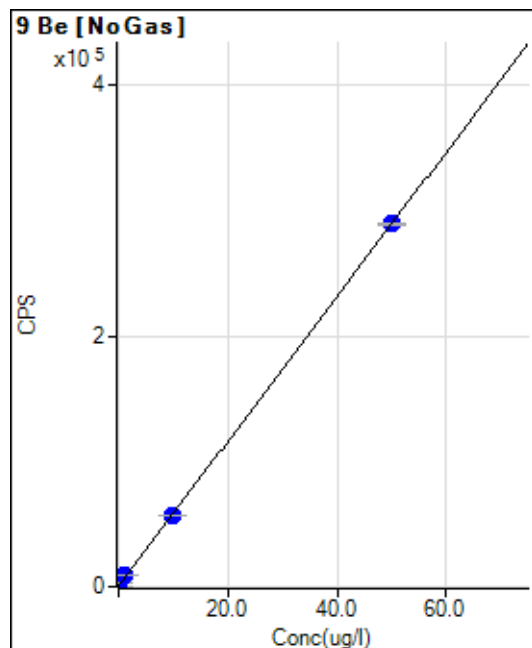
$$R = 0.9999$$

$$DL = 0.01539$$

$$BEC = 0.07258$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	317		P	16.4
2	<input type="checkbox"/>	0.100	0.500	3 210		P	9.0
3	<input type="checkbox"/>	1.000	1.438	8 633		P	1.3
4	<input type="checkbox"/>	10.000	9.733	56 597		P	0.9
5	<input type="checkbox"/>	50.000	50.044	289 684		P	0.6
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 5782.2730 * x + 316.6733$$

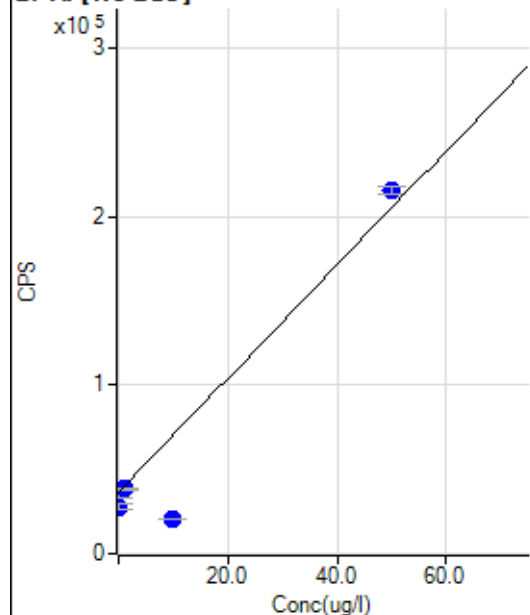
$$R = 0.9999$$

$$DL = 0.02702$$

$$BEC = 0.05477$$

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	36 577		P	16.7
2	<input type="checkbox"/>	0.100	-2.603	27 787		P	12.3
3	<input type="checkbox"/>	1.000	0.583	38 544		P	1.6
4	<input type="checkbox"/>	10.000	-4.690	20 740		P	2.9
5	<input type="checkbox"/>	50.000	52.952	215 398		P	2.3
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 3377.0674 * x + 36576.9000$$

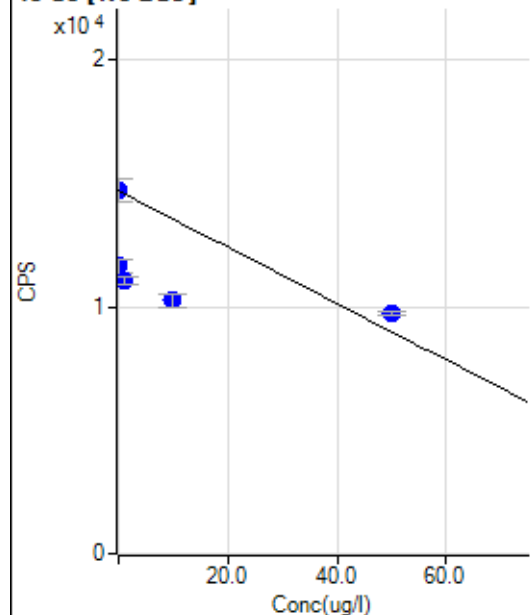
$$R = 0.9640$$

$$DL = 5.413$$

$$BEC = 10.83$$

Weight: <None>

Min Conc: <None>

45 Sc [No Gas]

	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	14 702		P	6.3
2	<input type="checkbox"/>	0.100	26.678	11 656		P	4.2
3	<input type="checkbox"/>	1.000	31.634	11 090		P	3.0
4	<input type="checkbox"/>	10.000	38.704	10 283		P	5.3
5	<input type="checkbox"/>	50.000	43.593	9 725		P	1.4
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = -114.1667 * x + 14701.9233$$

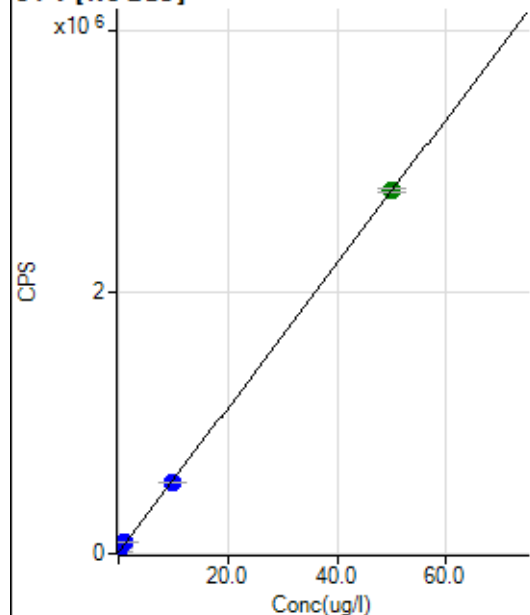
$$R = -0.6028$$

$$DL = -24.22$$

$$BEC = -128.8$$

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	10 583		P	6.4
2	<input type="checkbox"/>	0.100	0.499	38 126		P	6.4
3	<input type="checkbox"/>	1.000	1.400	87 787		P	0.9
4	<input type="checkbox"/>	10.000	9.746	547 968		P	0.7
5	<input type="checkbox"/>	50.000	50.042	2 769 992		A	1.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 55141.7709 * x + 10582.6600$$

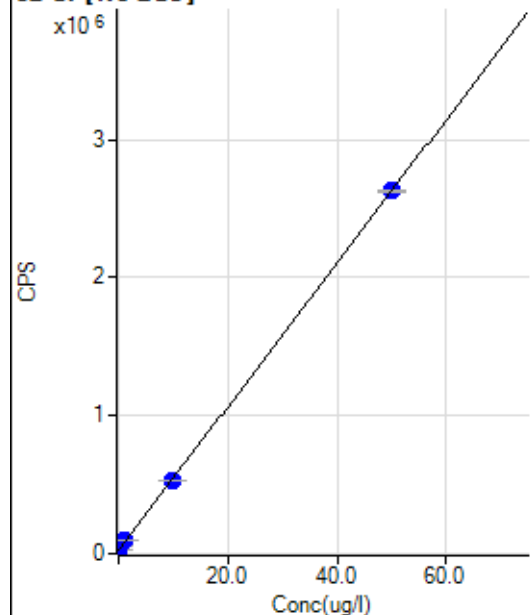
$$R = 0.9999$$

$$DL = 0.03666$$

$$BEC = 0.1919$$

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	23 613		P	0.5
2	<input type="checkbox"/>	0.100	0.534	51 397		P	2.1
3	<input type="checkbox"/>	1.000	1.401	96 496		P	0.5
4	<input type="checkbox"/>	10.000	9.714	529 111		P	1.4
5	<input type="checkbox"/>	50.000	50.048	2 627 938		P	0.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 52036.2918 * x + 23612.9367$$

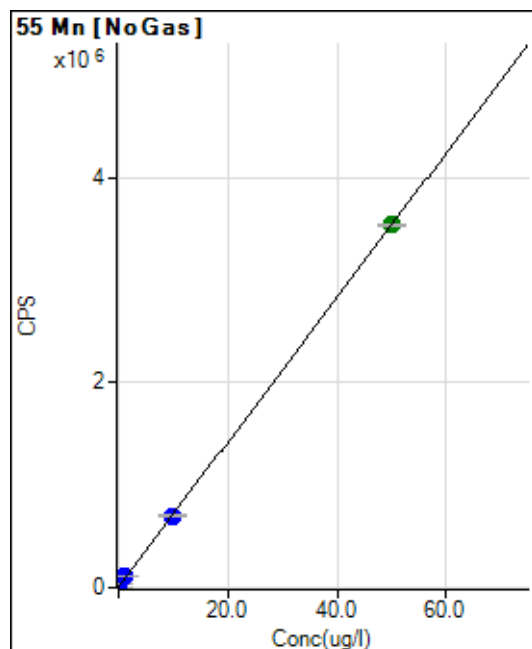
$$R = 0.9999$$

$$DL = 0.007041$$

$$BEC = 0.4538$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	7 189		P	2.7
2	<input type="checkbox"/>	0.100	0.518	43 762		P	5.0
3	<input type="checkbox"/>	1.000	1.529	115 128		P	0.8
4	<input type="checkbox"/>	10.000	9.847	702 431		P	1.4
5	<input type="checkbox"/>	50.000	50.019	3 538 791		A	0.8
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 70604.9066 * x + 7189.3667$$

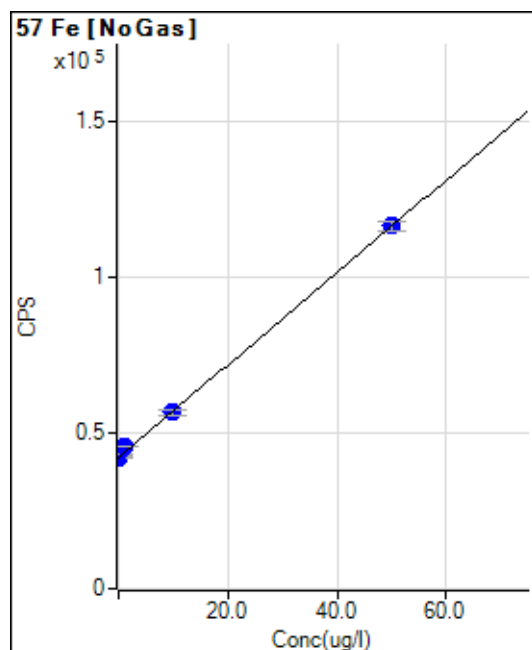
$$R = 0.9999$$

$$DL = 0.008251$$

$$BEC = 0.1018$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	42 193		P	2.4
2	<input type="checkbox"/>	0.100	1.144	43 891		P	2.0
3	<input type="checkbox"/>	1.000	2.359	45 692		P	1.0
4	<input type="checkbox"/>	10.000	9.652	56 514		P	3.8
5	<input type="checkbox"/>	50.000	50.040	116 439		P	2.5
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 1483.7278 * x + 42192.6000$$

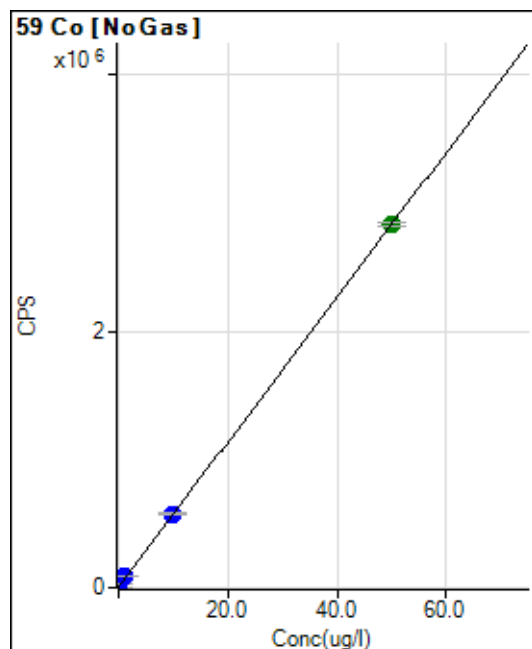
$$R = 0.9995$$

$$DL = 2.048$$

$$BEC = 28.44$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	3 782		P	2.8
2	<input type="checkbox"/>	0.100	0.514	32 890		P	5.2
3	<input type="checkbox"/>	1.000	1.429	84 651		P	1.2
4	<input type="checkbox"/>	10.000	10.087	574 572		P	1.2
5	<input type="checkbox"/>	50.000	49.973	2 831 706		A	1.1
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 56588.7582 * x + 3781.5800$$

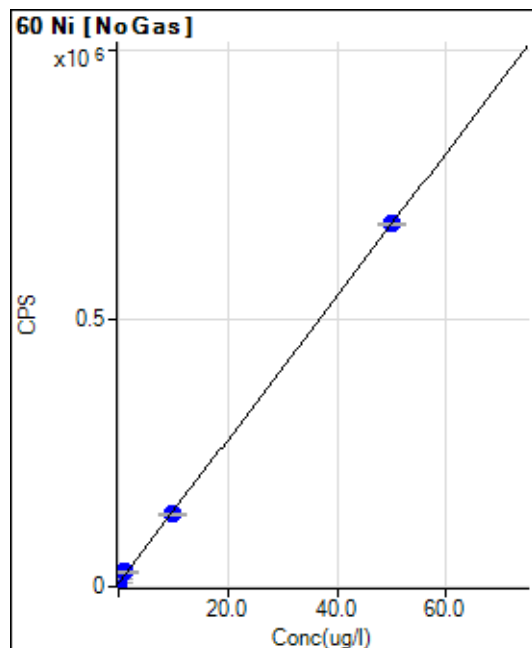
$$R = 1.0000$$

$$DL = 0.005651$$

$$BEC = 0.06683$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	6 181		P	6.6
2	<input type="checkbox"/>	0.100	0.508	12 979		P	6.2
3	<input type="checkbox"/>	1.000	1.553	26 965		P	1.9
4	<input type="checkbox"/>	10.000	9.623	134 975		P	1.1
5	<input type="checkbox"/>	50.000	50.064	676 225		P	0.6
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 13383.8797 * x + 6181.2067$$

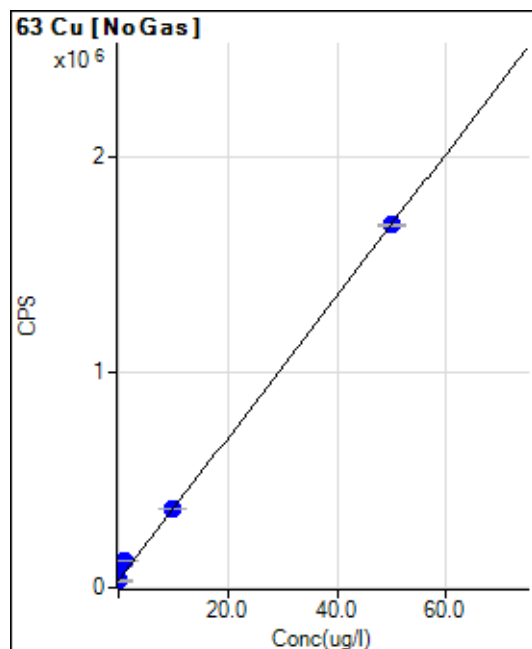
$$R = 0.9999$$

$$DL = 0.09089$$

$$BEC = 0.4618$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	33 737		P	16.7
2	<input type="checkbox"/>	0.100	1.981	99 116		P	2.4
3	<input type="checkbox"/>	1.000	2.862	128 161		P	0.6
4	<input type="checkbox"/>	10.000	10.057	365 570		P	1.6
5	<input type="checkbox"/>	50.000	49.948	1 681 801		P	0.4
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 32995.8306 * x + 33737.3467$$

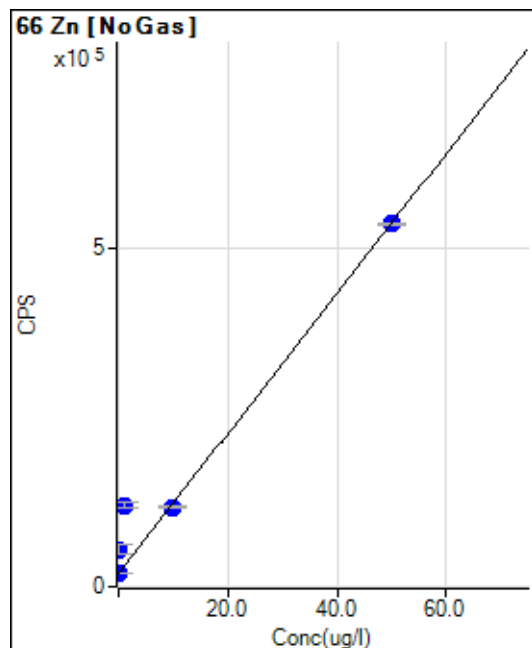
$$R = 0.9991$$

$$DL = 0.5134$$

$$BEC = 1.022$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	19 377		P	5.3
2	<input type="checkbox"/>	0.100	3.421	54 799		P	23.2
3	<input type="checkbox"/>	1.000	9.714	119 952		P	6.8
4	<input type="checkbox"/>	10.000	9.465	117 368		P	2.8
5	<input type="checkbox"/>	50.000	49.926	536 271		P	0.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 10353.1791 * x + 19376.7167$$

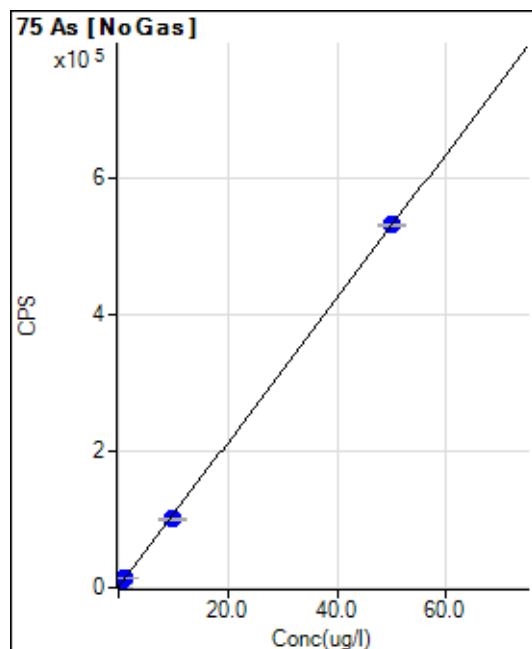
$$R = 0.9844$$

$$DL = 0.2994$$

$$BEC = 1.872$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	1 032		P	8.4
2	<input type="checkbox"/>	0.100	0.351	4 749		P	2.5
3	<input type="checkbox"/>	1.000	1.213	13 884		P	2.3
4	<input type="checkbox"/>	10.000	9.397	100 564		P	2.1
5	<input type="checkbox"/>	50.000	50.116	531 839		P	0.4
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 10591.6297 * x + 1031.5100$$

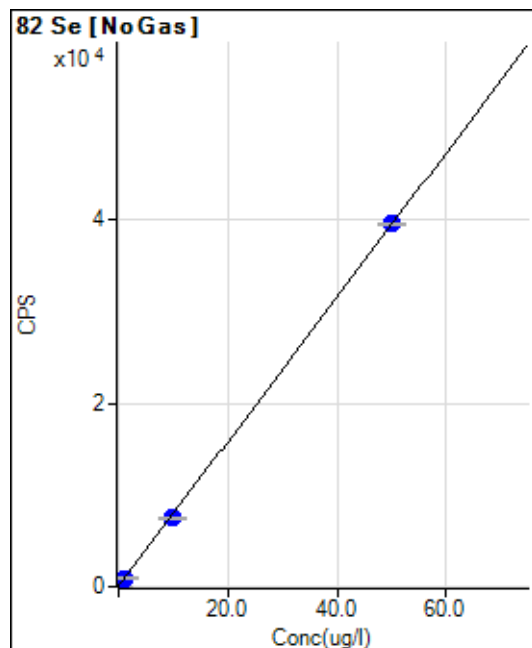
$$R = 0.9999$$

$$DL = 0.02467$$

$$BEC = 0.09739$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	39		P	69.9
2	<input type="checkbox"/>	0.100	0.376	336		P	10.5
3	<input type="checkbox"/>	1.000	1.127	929		P	11.3
4	<input type="checkbox"/>	10.000	9.409	7 466		P	2.5
5	<input type="checkbox"/>	50.000	50.115	39 597		P	0.6
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 789.3372 * x + 39.1667$$

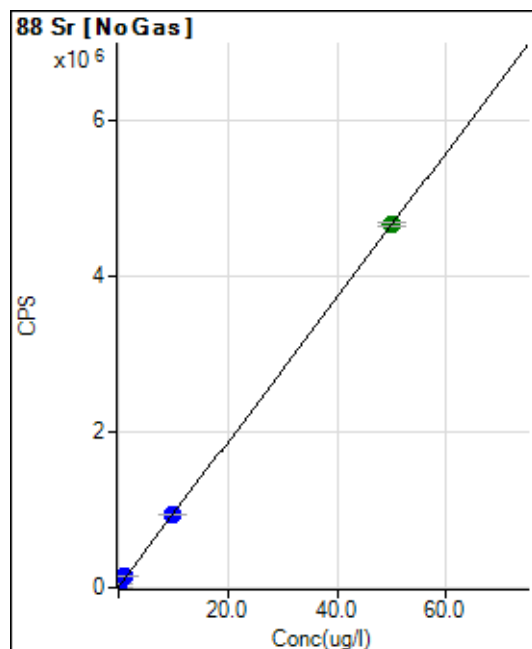
$$R = 0.9999$$

$$DL = 0.104$$

$$BEC = 0.04962$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	10 804		P	4.5
2	<input type="checkbox"/>	0.100	0.495	56 831		P	6.2
3	<input type="checkbox"/>	1.000	1.510	151 135		P	0.1
4	<input type="checkbox"/>	10.000	9.917	932 366		P	0.9
5	<input type="checkbox"/>	50.000	50.006	4 657 835		A	0.9
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 92930.0928 * x + 10803.8767$$

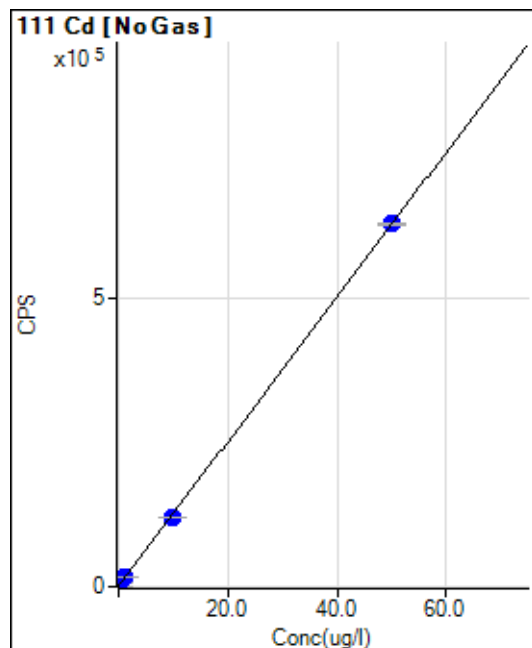
$$R = 0.9999$$

$$DL = 0.01583$$

$$BEC = 0.1163$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	609		P	13.4
2	<input type="checkbox"/>	0.100	0.472	6 515		P	4.1
3	<input type="checkbox"/>	1.000	1.291	16 753		P	1.0
4	<input type="checkbox"/>	10.000	9.521	119 680		P	1.7
5	<input type="checkbox"/>	50.000	50.089	627 026		P	0.7
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 12506.0315 * x + 608.6367$$

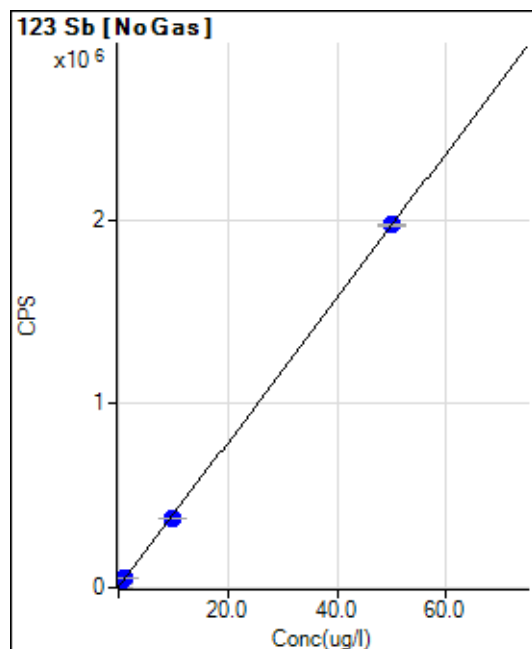
$$R = 0.9999$$

$$DL = 0.01955$$

$$BEC = 0.04867$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	2 067		P	2.5
2	<input type="checkbox"/>	0.100	0.409	18 168		P	4.1
3	<input type="checkbox"/>	1.000	1.331	54 449		P	0.4
4	<input type="checkbox"/>	10.000	9.550	378 015		P	1.1
5	<input type="checkbox"/>	50.000	50.083	1 973 726		P	0.5
6	<input type="checkbox"/>	1.000					
7	<input type="checkbox"/>	1.000					
8	<input type="checkbox"/>	1.000					
9	<input type="checkbox"/>	1.000					

$$y = 39367.9412 * x + 2066.8333$$

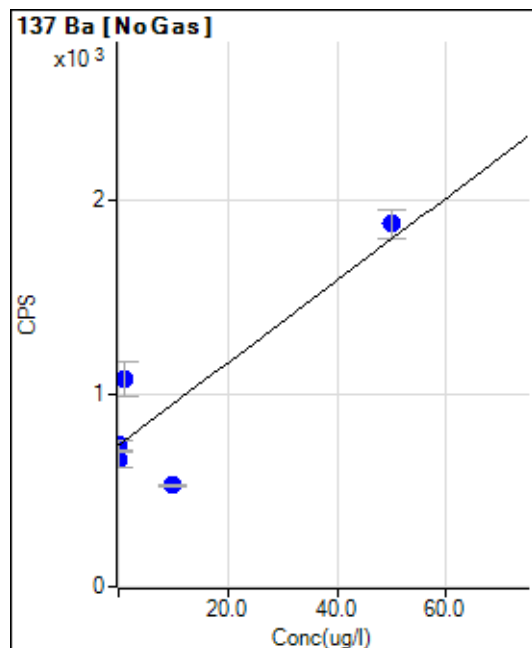
$$R = 0.9999$$

$$DL = 0.003969$$

$$BEC = 0.0525$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	733		P	6.7
2	<input type="checkbox"/>	0.100	-3.431	660		P	11.8
3	<input type="checkbox"/>	1.000	15.905	1 073		P	16.8
4	<input type="checkbox"/>	10.000	-9.668	527		P	2.2
5	<input type="checkbox"/>	50.000	53.643	1 880		P	8.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 21.3785 * x + 733.3900$$

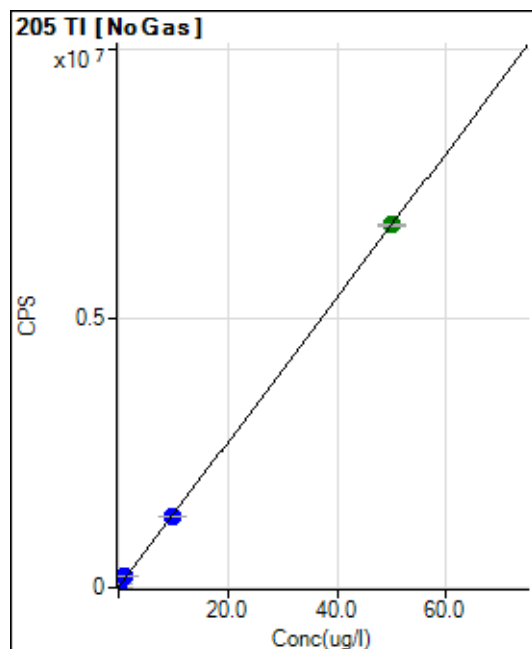
$$R = 0.8707$$

$$DL = 6.923$$

$$BEC = 34.31$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	8 402		P	2.5
2	<input type="checkbox"/>	0.100	0.365	57 584		P	1.3
3	<input type="checkbox"/>	1.000	1.541	215 817		P	1.5
4	<input type="checkbox"/>	10.000	9.721	1 317 071		P	0.8
5	<input type="checkbox"/>	50.000	50.044	6 745 232		A	0.7
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 134617.1329 * x + 8402.4133$$

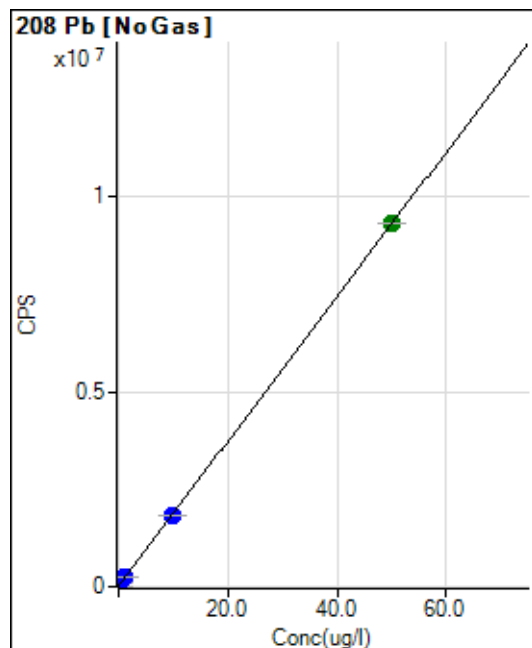
$$R = 0.9999$$

$$DL = 0.00464$$

$$BEC = 0.06242$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	13 927		P	10.2
2	<input type="checkbox"/>	0.100	0.419	91 799		P	3.5
3	<input type="checkbox"/>	1.000	1.238	243 812		P	1.2
4	<input type="checkbox"/>	10.000	9.692	1 813 531		P	1.0
5	<input type="checkbox"/>	50.000	50.056	9 308 711		A	0.2
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$$y = 185686.6812 * x + 13927.1267$$

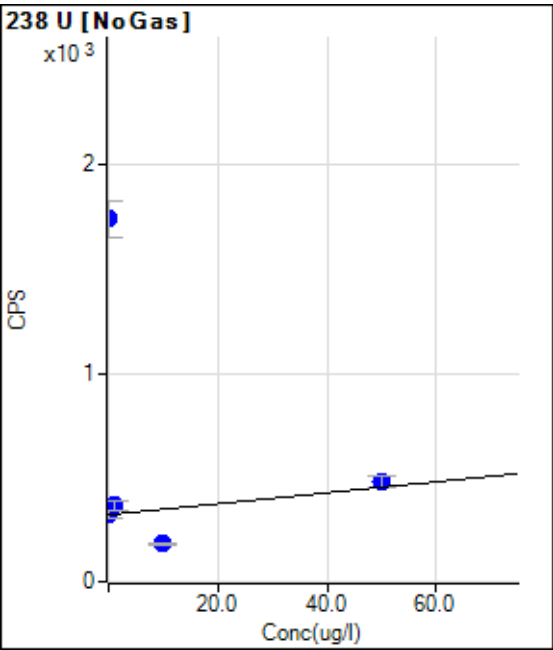
$$R = 0.9999$$

$$DL = 0.02287$$

$$BEC = 0.075$$

Weight: <None>

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	<input type="checkbox"/>	0.000	0.000	321		P	12.4
2	<input type="checkbox"/>	0.100	537.768	1 740		P	10.4
3	<input type="checkbox"/>	1.000	16.424	364		P	10.7
4	<input type="checkbox"/>	10.000	-52.215	183		P	5.5
5	<input type="checkbox"/>	50.000	61.059	482		P	11.4
6	<input type="checkbox"/>						
7	<input type="checkbox"/>						
8	<input type="checkbox"/>						
9	<input type="checkbox"/>						

$y = 2.6387 * x + 321.1200$
R = -0.2061
DL = 45.22
BEC = 121.7

Weight: <None>
Min Conc: <None>