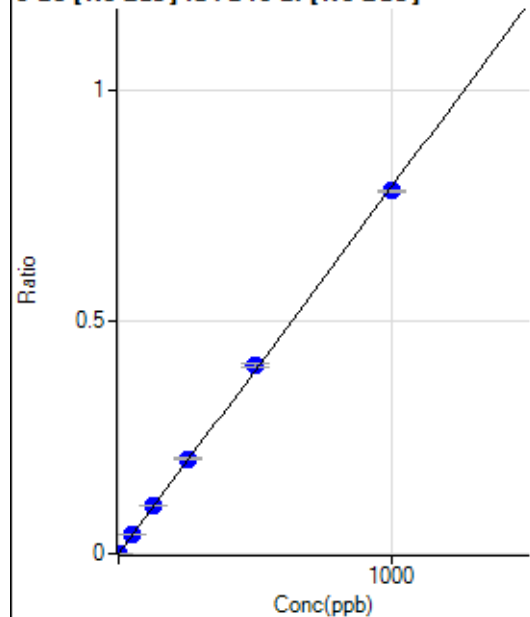


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7062824-MS.b\
Analysis File: P7062824-MS.batch.bin
DA Date-Time: 2024-06-28 18:44:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-06-28 16:15:49
2	005CALS.d	S02	2024-06-28 16:19:09
3	006CALS.d	S03	2024-06-28 16:22:30
4	007CALS.d	S04	2024-06-28 16:25:46
5	008CALS.d	S05	2024-06-28 16:28:54
6	009CALS.d	S06	2024-06-28 16:32:09
7	010CALS.d	S07	2024-06-28 16:35:06
8	011CALS.d	S08	2024-06-28 16:37:59

9 Be [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.33	0.0000	P	49.4
2	☐	1.000	1.097	607.79	0.0009	P	4.8
3	☐	50.000	54.238	29375.52	0.0429	P	0.8
4	☐	125.000	131.585	69522.22	0.1040	P	1.1
5	☐	250.000	258.772	132991.77	0.2045	P	1.6
6	☐	500.000	514.743	254377.33	0.4068	P	1.9
7	☐	1000.000	989.400	495907.37	0.7820	P	0.6
8	☐			728.91	0.0011	P	23.6

$$y = 7.9035\text{E-}004 * x + 1.9437\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.03644$$

$$BEC = 0.02459$$

Weight: <None>

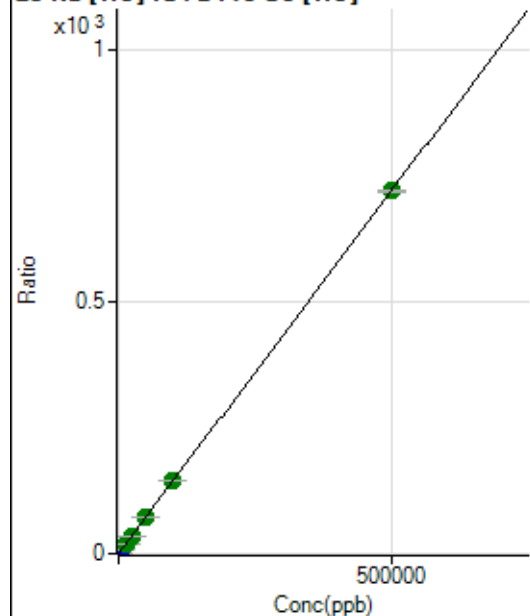
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

23 Na [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6360.25	0.0478	P	4.7
2	☐	500.000	486.210	99283.76	0.7474	P	1.6
3	☐	5000.000	5151.043	977031.49	7.4594	P	0.4
4	☐	12500.000	13015.677	2242187.41	18.7755	A	1.2
5	☐	25000.000	24792.492	4304187.78	35.7206	A	0.7
6	☐	50000.000	50099.588	8489205.91	72.1339	A	0.7
7	☐	100000.00	100763.94	16655811.14	145.0326	A	0.1
8	☐	500000.00	499833.24	84454440.41	719.2358	A	0.7

$$y = 0.0014 * x + 0.0478$$

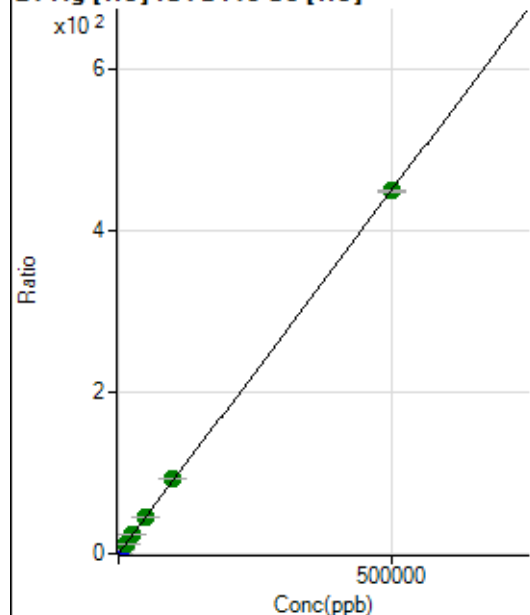
$$R = 1.0000$$

$$DL = 4.643$$

$$BEC = 33.2$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	925.59	0.0070	P	7.8
2	☐	500.000	489.109	59318.12	0.4465	P	1.1
3	☐	5000.000	5299.564	624707.53	4.7695	P	0.4
4	☐	12500.000	13404.728	1439377.64	12.0534	A	1.8
5	☐	25000.000	25762.902	2790607.46	23.1593	A	0.5
6	☐	50000.000	50503.425	5342057.70	45.3928	A	1.8
7	☐	100000.00	102161.20	10544307.83	91.8160	A	0.3
8	☐	500000.00	499453.66	52705018.10	448.8501	A	0.3

$$y = 8.9867\text{E-}004 * x + 0.0070$$

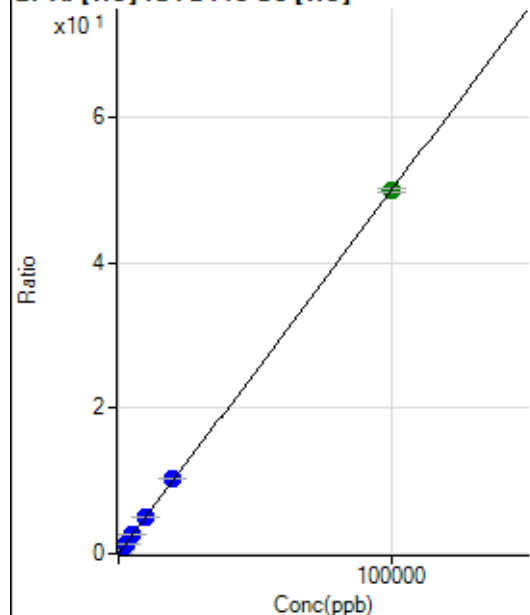
$$R = 1.0000$$

$$DL = 1.811$$

$$BEC = 7.736$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	160.00	0.0012	P	15.9
2	☐	20.000	19.257	1436.75	0.0108	P	3.2
3	☐	1000.000	1038.895	68081.06	0.5198	P	0.4
4	☐	2500.000	2708.373	161595.43	1.3531	P	0.9
5	☐	5000.000	5114.780	307784.27	2.5543	P	0.7
6	☐	10000.000	10230.699	601151.14	5.1080	P	0.5
7	☐	20000.000	20681.330	1185680.66	10.3246	P	1.0
8	☐	100000.00	99829.327	5851472.83	49.8327	A	1.0

$$y = 4.9917\text{E-}004 * x + 0.0012$$

$$R = 1.0000$$

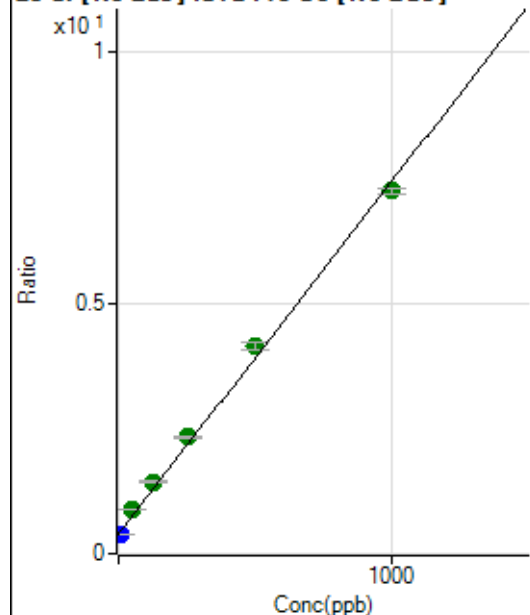
$$DL = 1.149$$

$$BEC = 2.408$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	730711.61	0.3946	P	2.3
2	☐	10.000	0.529	734357.83	0.3984	P	1.3
3	☐	50.000	70.376	1632102.74	0.8895	A	0.3
4	☐	125.000	148.457	2544732.15	1.4386	A	0.7
5	☐	250.000	275.064	3989232.06	2.3289	A	1.3
6	☐	500.000	532.232	6779375.25	4.1373	A	3.3
7	☐	1000.000	973.762	11929700.10	7.2422	A	1.9
8	☐			753019.11	0.4517	P	1.6

$$y = 0.0070 * x + 0.3946$$

$$R = 0.9984$$

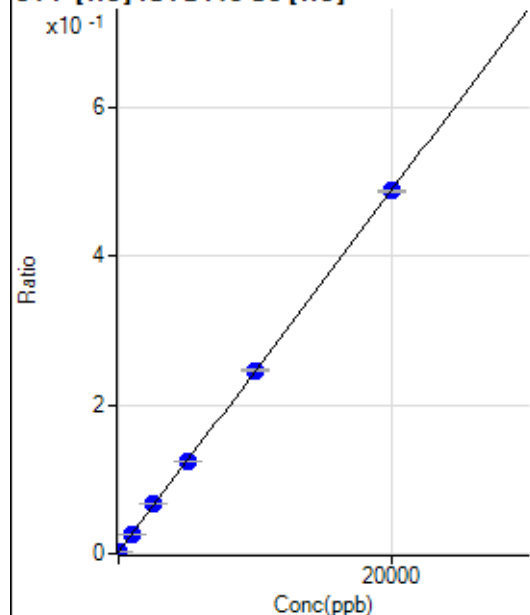
$$DL = 3.86$$

$$BEC = 56.12$$

Weight: <None>

Min Conc: 0

31 P [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.973	278.90	0.0021	P	0.8
2	☐	0.000	11.973	355.56	0.0027	P	16.5
3	☐	1000.000	1000.832	3497.10	0.0267	P	1.4
4	☐	2500.000	2645.259	7958.82	0.0666	P	1.8
5	☐	5000.000	4989.403	14891.78	0.1236	P	1.3
6	☐	10000.000	10039.606	28985.25	0.2463	P	0.7
7	☐	20000.000	19964.647	55971.73	0.4874	P	0.5
8	☐			273.34	0.0023	P	7.3

$$y = 2.4293E-005 * x + 0.0024$$

$$R = 1.0000$$

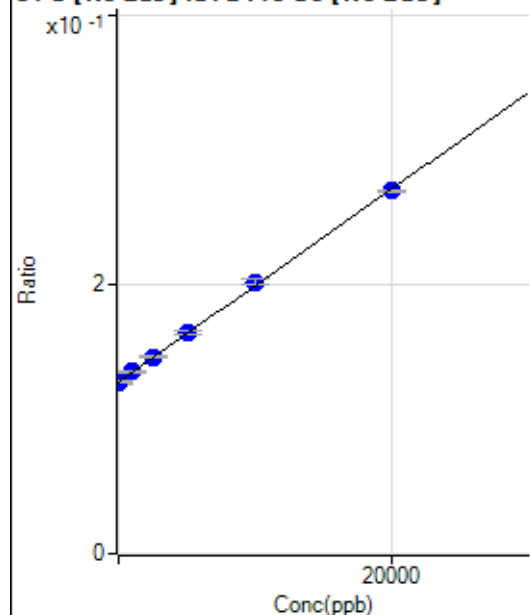
$$DL = 28.28$$

$$BEC = 98.2$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-67.008	235119.17	0.1270	P	2.3
2	☐	0.000	67.008	235881.65	0.1280	P	1.2
3	☐	1000.000	1053.832	247734.39	0.1350	P	0.4
4	☐	2500.000	2615.266	258626.47	0.1462	P	0.9
5	☐	5000.000	5068.965	280554.32	0.1638	P	1.4
6	☐	10000.000	10339.662	330306.45	0.2015	P	2.1
7	☐	20000.000	19795.828	443616.34	0.2693	P	0.5
8	☐			220244.44	0.1321	P	1.2

$$y = 7.1641\text{E-}006 * x + 0.1275$$

$$R = 0.9998$$

$$DL = 923.8$$

$$BEC = 1.779\text{E}+04$$

Weight: <None>

Min Conc: 0

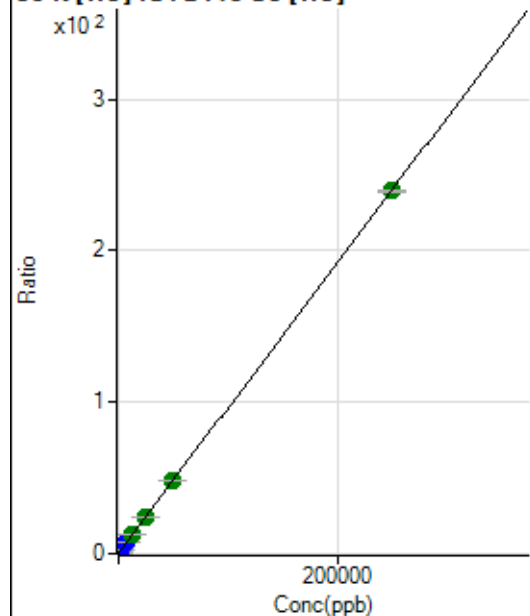
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

39 K [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	59384.14	0.4460	P	0.6
2	☐	500.000	487.835	121197.39	0.9123	P	0.8
3	☐	2500.000	2659.919	391426.19	2.9885	P	0.8
4	☐	6250.000	6875.850	838122.64	7.0182	P	1.1
5	☐	12500.000	12632.250	1508750.01	12.5205	A	1.1
6	☐	25000.000	24835.478	2846265.30	24.1848	A	0.4
7	☐	50000.000	50203.797	5562118.18	48.4330	A	0.2
8	☐	250000.00	249951.85	28106372.92	239.3611	A	0.5

$$y = 9.5584\text{E-}004 * x + 0.4460$$

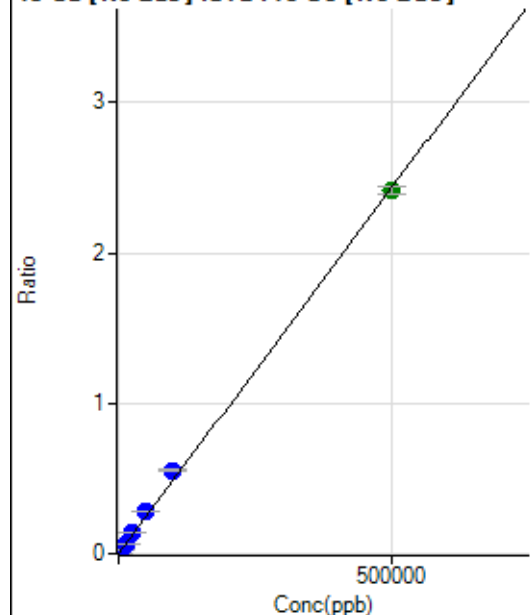
$$R = 1.0000$$

$$DL = 9.097$$

$$BEC = 466.6$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	235.56	0.0001	P	11.2
2	☐	500.000	496.784	4688.54	0.0025	P	0.9
3	☐	5000.000	5781.102	51819.16	0.0282	P	0.9
4	☐	12500.000	14382.266	123950.77	0.0701	P	0.2
5	☐	25000.000	28567.753	238185.25	0.1391	P	1.7
6	☐	50000.000	58063.564	462911.05	0.2825	P	3.2
7	☐	100000.00	113818.01	912063.84	0.5536	P	1.4
8	☐	500000.00	496196.78	4023699.87	2.4132	A	2.0

$$y = 4.8632\text{E-}006 * x + 1.2732\text{E-}004$$

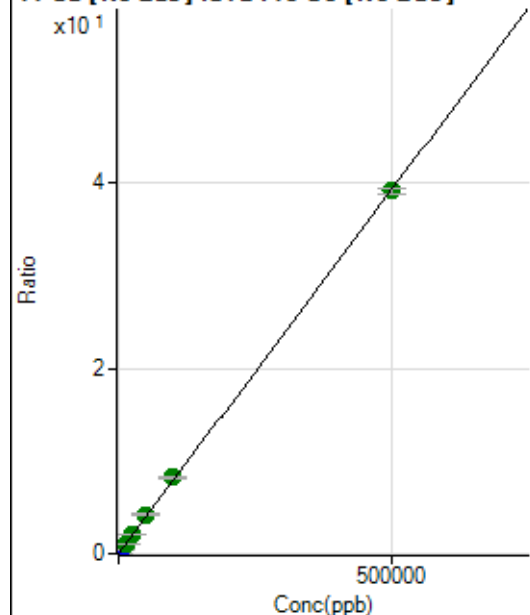
$$R = 0.9995$$

$$DL = 8.821$$

$$BEC = 26.18$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18332.30	0.0099	P	2.4
2	☐	500.000	500.326	90575.84	0.0491	P	1.1
3	☐	5000.000	5588.751	822212.63	0.4481	P	0.2
4	☐	12500.000	13082.982	1832176.00	1.0358	A	0.3
5	☐	25000.000	26236.894	3541356.27	2.0672	A	1.3
6	☐	50000.000	53055.692	6832517.33	4.1701	A	3.9
7	☐	100000.00	104383.46	13500165.21	8.1948	A	1.2
8	☐	500000.00	498735.43	65217098.47	39.1165	A	1.9

$$y = 7.8412\text{E-}005 * x + 0.0099$$

$$R = 0.9999$$

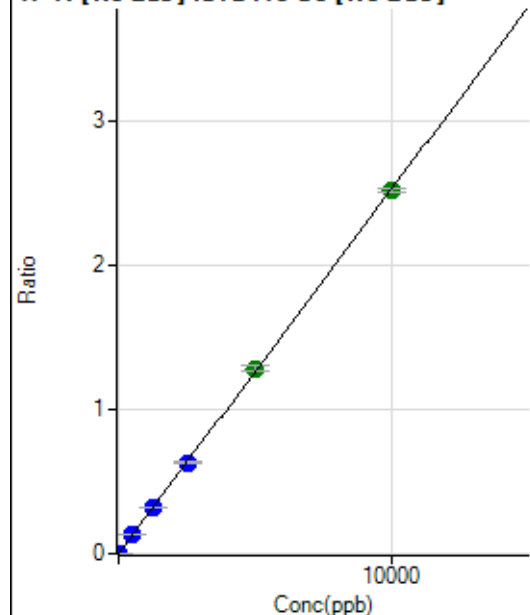
$$DL = 9.195$$

$$BEC = 126.3$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0001	P	28.2
2	☐	5.000	4.004	1964.59	0.0011	P	2.2
3	☐	500.000	506.476	234934.40	0.1280	P	0.1
4	☐	1250.000	1256.933	561972.55	0.3177	P	0.2
5	☐	2500.000	2502.741	1083434.70	0.6325	P	1.7
6	☐	5000.000	5084.551	2105440.33	1.2850	A	3.5
7	☐	10000.000	9955.849	4144796.33	2.5160	A	1.2
8	☐			1693.44	0.0010	P	24.2

$$y = 2.5271E-004 * x + 5.3534E-005$$

$$R = 0.9999$$

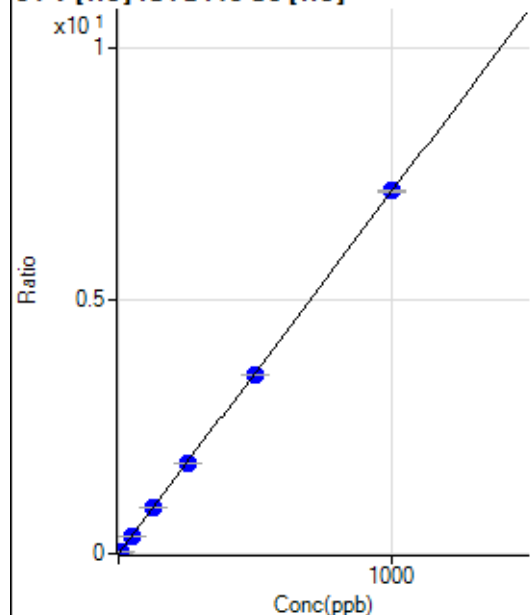
$$DL = 0.1792$$

$$BEC = 0.2118$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0001	P	49.4
2	☐	5.000	4.723	4489.60	0.0338	P	3.4
3	☐	50.000	49.635	46442.36	0.3546	P	1.2
4	☐	125.000	129.634	110583.41	0.9260	P	0.5
5	☐	250.000	248.372	213768.11	1.7741	P	0.4
6	☐	500.000	494.638	415803.42	3.5330	P	0.2
7	☐	1000.000	1002.529	822327.80	7.1606	P	0.8
8	☐			293.34	0.0025	P	6.3

$$y = 0.0071 * x + 5.8368E-005$$

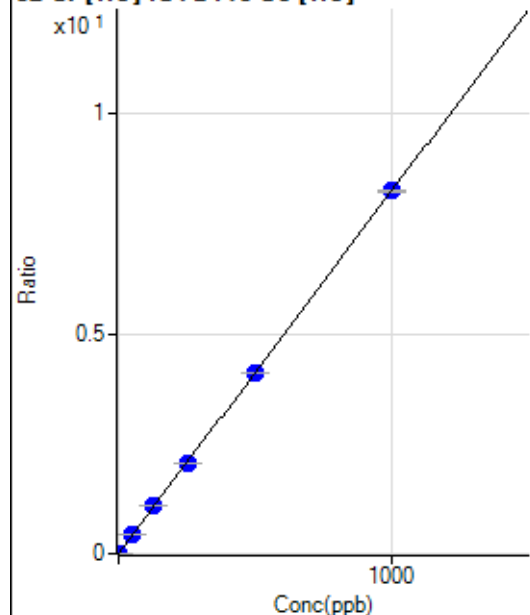
$$R = 1.0000$$

$$DL = 0.01211$$

$$BEC = 0.008172$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	273.34	0.0021	P	7.9
2	☐	2.000	1.864	2313.53	0.0174	P	2.8
3	☐	50.000	50.678	54961.85	0.4196	P	0.7
4	☐	125.000	130.350	128512.73	1.0761	P	0.4
5	☐	250.000	250.284	248735.87	2.0643	P	0.9
6	☐	500.000	497.390	482565.76	4.1004	P	0.6
7	☐	1000.000	1000.532	946992.81	8.2461	P	0.4
8	☐			8986.13	0.0765	P	0.9

$$y = 0.0082 * x + 0.0021$$

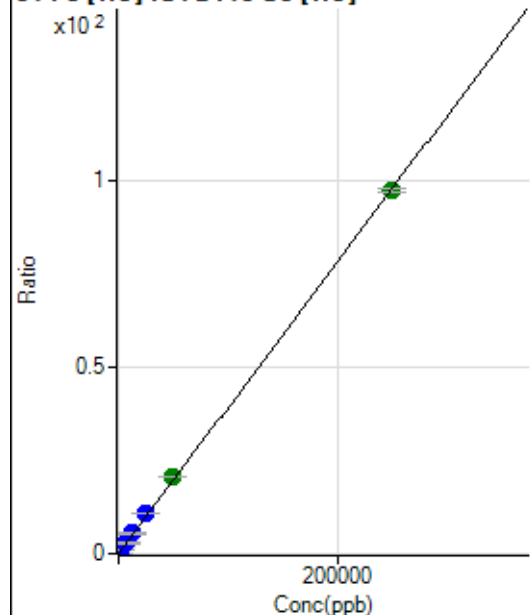
$$R = 1.0000$$

$$DL = 0.05872$$

$$BEC = 0.2491$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	993.38	0.0075	P	2.7
2	☐	50.000	52.053	3689.38	0.0278	P	2.6
3	☐	2500.000	2799.059	144029.23	1.0996	P	0.3
4	☐	6250.000	7253.442	338881.09	2.8377	P	1.0
5	☐	12500.000	13845.520	651860.39	5.4098	P	0.6
6	☐	25000.000	27437.116	1260798.31	10.7131	P	0.5
7	☐	50000.000	52796.206	2366564.69	20.6079	A	1.9
8	☐	250000.00	249101.69	11413908.17	97.2041	A	1.1

$$y = 3.9019E-004 * x + 0.0075$$

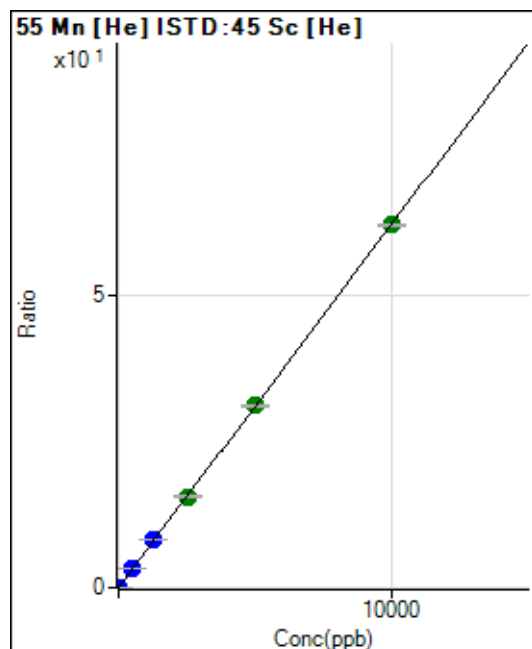
$$R = 0.9999$$

$$DL = 1.556$$

$$BEC = 19.12$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	123.34	0.0009	P	16.5
2	☐	1.000	0.853	825.59	0.0062	P	5.1
3	☐	500.000	509.908	414412.14	3.1639	P	0.3
4	☐	1250.000	1324.072	980983.18	8.2143	P	0.9
5	☐	2500.000	2501.679	1869947.23	15.5191	A	1.1
6	☐	5000.000	5007.294	3655806.68	31.0616	A	1.3
7	☐	10000.000	9986.179	7113889.55	61.9461	A	0.8
8	☐			4435.14	0.0378	P	3.2

$$y = 0.0062 * x + 9.2640E-004$$

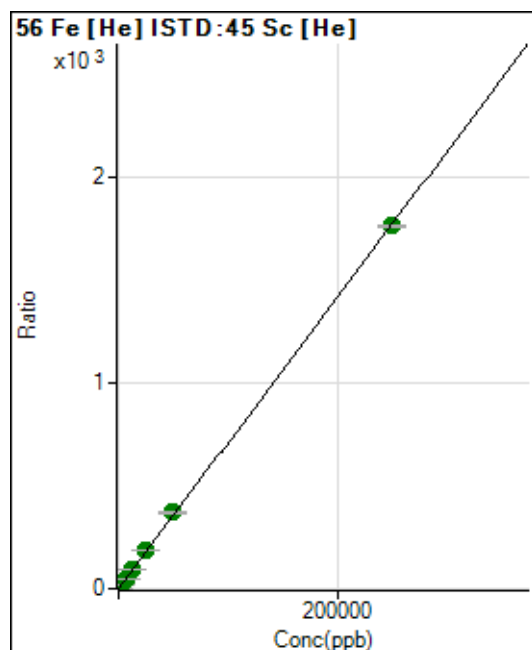
$$R = 1.0000$$

$$DL = 0.07414$$

$$BEC = 0.1493$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6078.04	0.0456	P	2.4
2	☐	50.000	51.184	54102.42	0.4072	P	1.1
3	☐	2500.000	2628.902	2438530.21	18.6176	A	0.4
4	☐	6250.000	6842.233	5778198.73	48.3828	A	1.7
5	☐	12500.000	13124.272	11177299.83	92.7624	A	0.9
6	☐	25000.000	26055.115	21667411.90	184.1127	A	0.9
7	☐	50000.000	52249.394	42394918.26	369.1629	A	0.7
8	☐	250000.00	249397.30	206888681.3	1.761919	A	0.3

$$y = 0.0071 * x + 0.0456$$

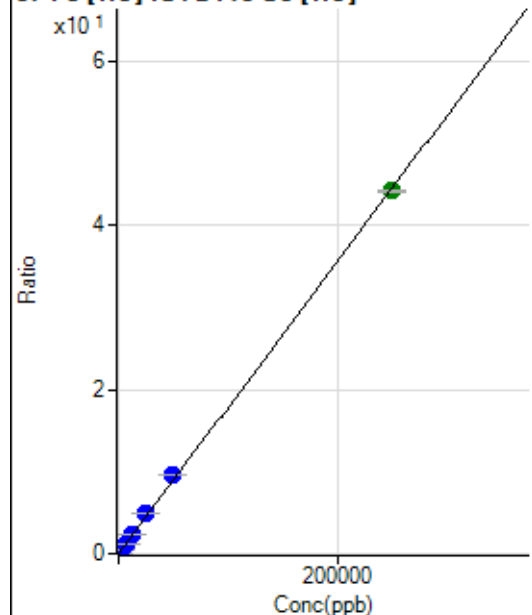
$$R = 1.0000$$

$$DL = 0.4661$$

$$BEC = 6.462$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	251.12	0.0019	P	19.4
2	☐	50.000	55.282	1554.54	0.0117	P	5.0
3	☐	2500.000	2746.522	64115.96	0.4895	P	0.5
4	☐	6250.000	7143.723	151685.89	1.2702	P	1.1
5	☐	12500.000	13714.652	293609.80	2.4368	P	1.2
6	☐	25000.000	27175.419	568032.02	4.8266	P	0.4
7	☐	50000.000	54510.526	1111616.36	9.6796	P	0.6
8	☐	250000.00	248794.81	5186868.50	44.1727	A	0.4

$$y = 1.7754\text{E-}004 * x + 0.0019$$

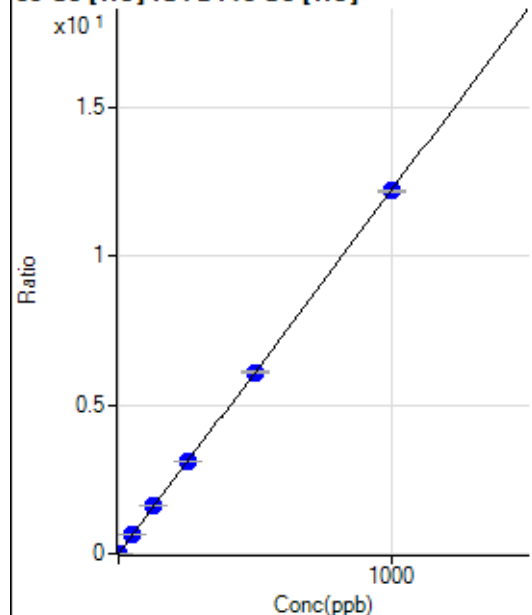
$$R = 0.9998$$

$$DL = 6.19$$

$$BEC = 10.63$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0002	P	37.9
2	☐	1.000	1.062	1746.79	0.0131	P	5.8
3	☐	50.000	51.454	82374.29	0.6289	P	0.8
4	☐	125.000	133.178	194349.72	1.6275	P	1.6
5	☐	250.000	254.153	374214.45	3.1057	P	1.0
6	☐	500.000	499.356	718116.48	6.1019	P	0.5
7	☐	1000.000	998.189	1400727.93	12.1972	P	0.7
8	☐			4059.47	0.0346	P	2.0

$$y = 0.0122 * x + 1.6694\text{E-}004$$

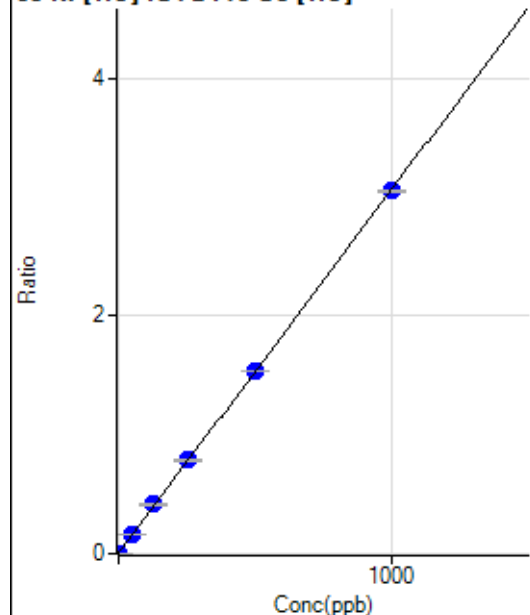
$$R = 1.0000$$

$$DL = 0.01554$$

$$BEC = 0.01366$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	361.12	0.0027	P	8.5
2	☐	1.000	0.970	754.47	0.0057	P	2.5
3	☐	50.000	52.240	21280.72	0.1625	P	2.1
4	☐	125.000	134.340	49386.48	0.4136	P	2.3
5	☐	250.000	256.269	94763.39	0.7865	P	0.9
6	☐	500.000	501.187	180708.53	1.5355	P	0.6
7	☐	1000.000	996.559	350320.70	3.0505	P	0.7
8	☐			3195.93	0.0272	P	2.8

$$y = 0.0031 * x + 0.0027$$

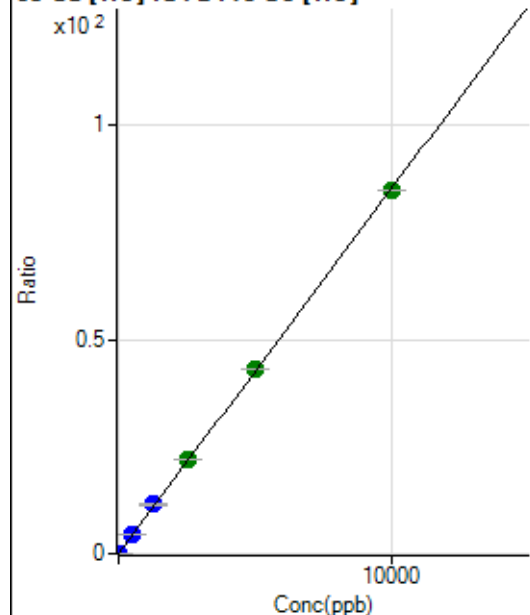
$$R = 0.9999$$

$$DL = 0.2258$$

$$BEC = 0.8868$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	707.80	0.0053	P	9.6
2	☐	2.000	1.988	2956.99	0.0223	P	6.2
3	☐	500.000	521.998	583212.97	4.4527	P	0.7
4	☐	1250.000	1343.761	1367837.67	11.4541	P	1.4
5	☐	2500.000	2594.681	2664501.26	22.1119	A	0.8
6	☐	5000.000	5050.644	5064843.12	43.0367	A	0.6
7	☐	10000.000	9938.188	9724618.88	84.6784	A	0.1
8	☐			4645.21	0.0396	P	5.8

$$y = 0.0085 * x + 0.0053$$

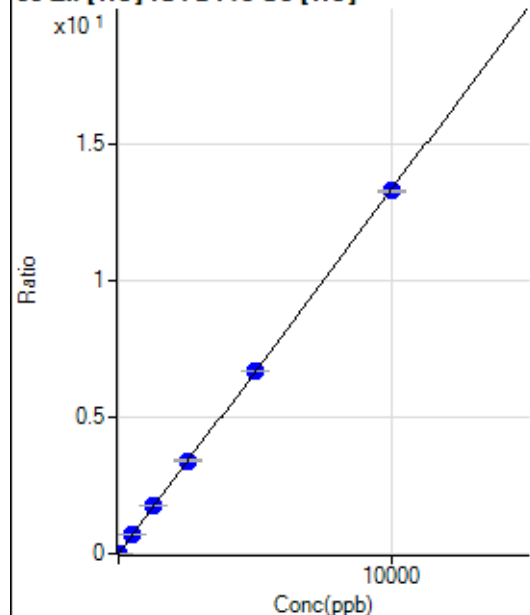
$$R = 0.9999$$

$$DL = 0.1802$$

$$BEC = 0.6239$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	177.78	0.0013	P	15.2
2	☐	5.000	4.841	1035.60	0.0078	P	10.8
3	☐	500.000	515.255	90207.92	0.6887	P	1.3
4	☐	1250.000	1336.562	213093.17	1.7844	P	1.0
5	☐	2500.000	2559.102	411528.85	3.4153	P	0.8
6	☐	5000.000	5017.071	787847.94	6.6944	P	0.7
7	☐	10000.000	9965.106	1526864.63	13.2954	P	0.4
8	☐			682.25	0.0058	P	12.2

$$y = 0.0013 * x + 0.0013$$

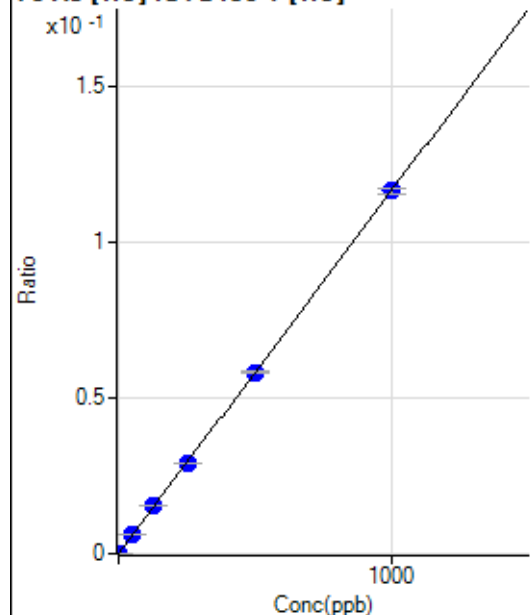
$$R = 1.0000$$

$$DL = 0.4566$$

$$BEC = 1.001$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	1.000	1.092	128.89	0.0001	P	29.8
3	☐	50.000	52.251	6033.50	0.0061	P	2.2
4	☐	125.000	130.154	13918.84	0.0152	P	0.2
5	☐	250.000	249.981	27184.88	0.0291	P	0.7
6	☐	500.000	499.314	52790.08	0.0582	P	0.7
7	☐	1000.000	999.591	103882.25	0.1165	P	1.3
8	☐			93.34	0.0001	P	6.0

$$y = 1.1651E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

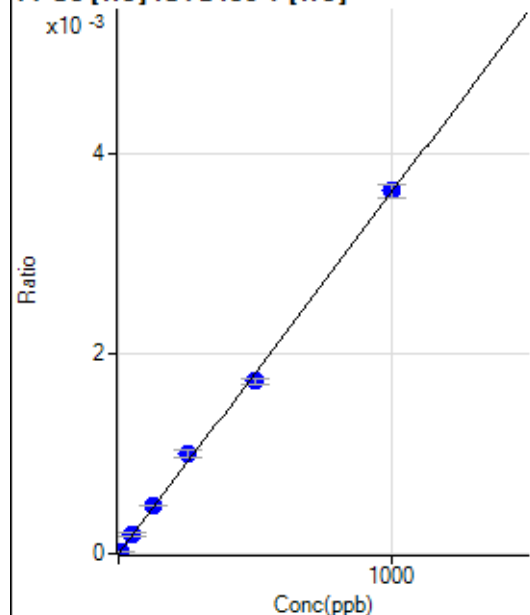
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.852	17.78	0.0000	P	47.1
3	☐	50.000	52.726	188.89	0.0002	P	13.6
4	☐	125.000	131.587	436.68	0.0005	P	0.9
5	☐	250.000	275.616	930.04	0.0010	P	7.3
6	☐	500.000	477.554	1566.76	0.0017	P	3.5
7	☐	1000.000	1003.860	3237.05	0.0036	P	3.8
8	☐			1.11	0.0000	P	173.

$$y = 3.6154\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9993$$

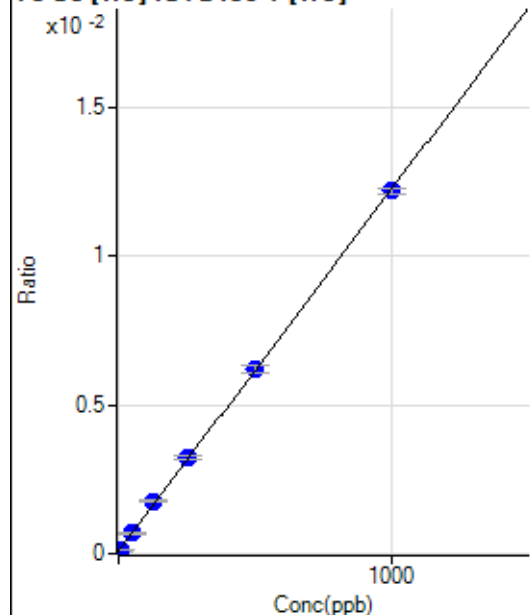
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	87.78	0.0001	P	5.5
2	☐	5.000	3.370	128.89	0.0001	P	24.5
3	☐	50.000	50.324	691.14	0.0007	P	5.7
4	☐	125.000	136.833	1604.55	0.0017	P	4.1
5	☐	250.000	256.596	2989.22	0.0032	P	4.3
6	☐	500.000	502.861	5620.01	0.0062	P	3.8
7	☐	1000.000	995.433	10860.74	0.0122	P	1.6
8	☐			53.33	0.0001	P	32.3

$$y = 1.2145\text{E-}005 * x + 8.6255\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.172$$

$$BEC = 7.102$$

Weight: <None>

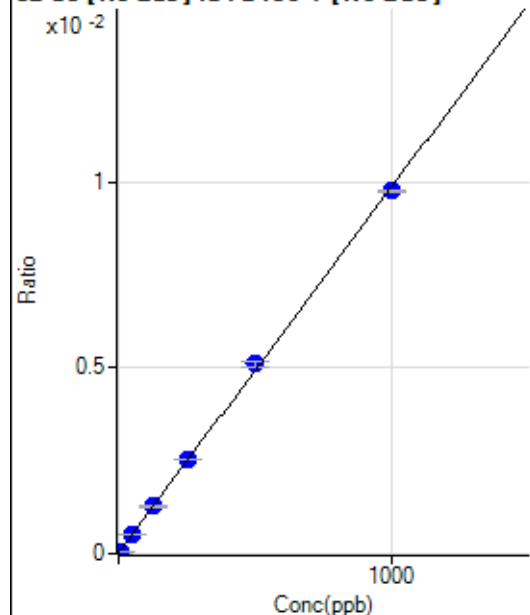
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19943.56		P	0.6
2	☐			20332.98		P	0.8
3	☐			19696.57		P	0.7
4	☐			18525.04		P	2.1
5	☐			18172.42		P	3.4
6	☐			16969.88		P	2.2
7	☐			17066.63		P	1.0
8	☐			17779.71		P	2.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	36.1
2	☐			24.44		P	34.3
3	☐			28.89		P	6.7
4	☐			26.67		P	33.1
5	☐			28.89		P	24.0
6	☐			28.89		P	37.1
7	☐			41.11		P	4.7
8	☐			34.44		P	43.6

82 Se [No Gas] ISTD:89 Y [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.06	0.0000	P	19.2
2	☐	5.000	5.060	309.80	0.0001	P	9.5
3	☐	50.000	51.441	2403.50	0.0005	P	0.9
4	☐	125.000	127.595	5597.43	0.0013	P	2.4
5	☐	250.000	256.443	10999.88	0.0025	P	0.8
6	☐	500.000	516.175	21159.60	0.0051	P	2.5
7	☐	1000.000	989.905	41362.75	0.0098	P	0.7
8	☐			121.52	0.0000	P	14.3

$$y = 9.8412\text{E-}006 * x + 1.7993\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.054$$

$$BEC = 1.828$$

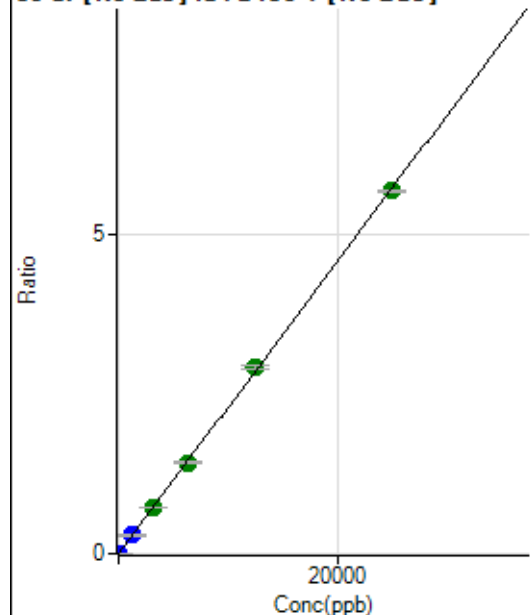
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			53.33		P	12.5
2	☐			40.00		P	28.9
3	☐			33.33		P	20.0
4	☐			52.22		P	9.7
5	☐			32.22		P	57.0
6	☐			55.55		P	12.5
7	☐			61.11		P	3.1
8	☐			45.56		P	11.2

86 Sr [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	19.7
2	☐	1.000	0.960	1076.72	0.0002	P	4.6
3	☐	1250.000	1254.169	1315930.80	0.2870	P	0.3
4	☐	3125.000	3148.608	3166728.53	0.7205	A	0.3
5	☐	6250.000	6240.687	6180340.46	1.4281	A	1.6
6	☐	12500.000	12760.574	12121581.35	2.9201	A	2.2
7	☐	25000.000	24868.882	24119234.36	5.6909	A	0.8
8	☐			9070.74	0.0022	P	24.4

$$y = 2.2884\text{E-}004 * x + 1.5871\text{E-}005$$

$$R = 0.9999$$

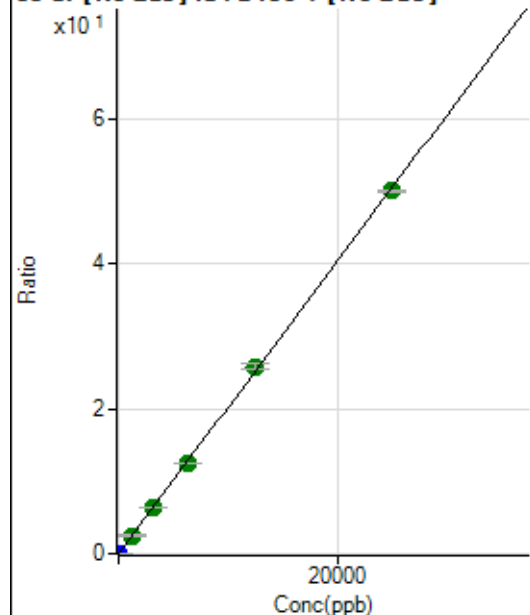
$$DL = 0.04097$$

$$BEC = 0.06936$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.34	0.0000	P	7.5
2	☐	1.000	0.946	8883.86	0.0019	P	1.9
3	☐	1250.000	1250.576	11559512.47	2.5212	A	0.3
4	☐	3125.000	3150.300	27912290.97	6.3510	A	0.4
5	☐	6250.000	6221.714	54281974.19	12.5429	A	0.9
6	☐	12500.000	12830.255	107360655.0	25.8656	A	2.6
7	☐	25000.000	24838.753	212223727.9	50.0746	A	0.5
8	☐			79445.35	0.0192	P	25.6

$$y = 0.0020 * x + 3.5887\text{E-}005$$

$$R = 0.9999$$

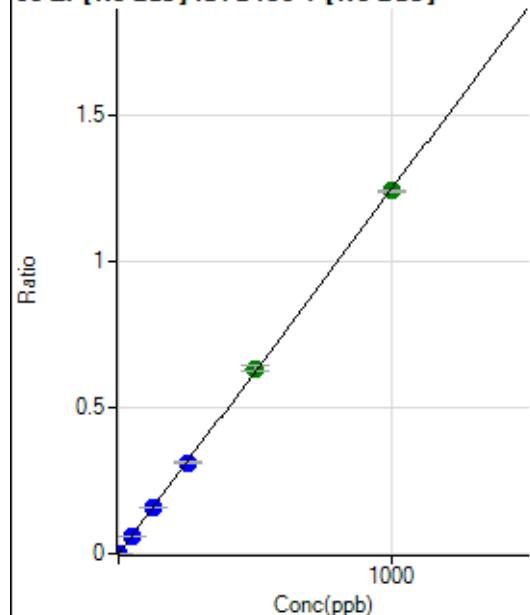
$$DL = 0.004006$$

$$BEC = 0.0178$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	194.45	0.0000	P	12.0
2	☐	1.000	0.843	5006.47	0.0011	P	5.4
3	☐	50.000	49.843	285345.81	0.0622	P	0.1
4	☐	125.000	125.277	687196.97	0.1564	P	0.2
5	☐	250.000	249.033	1344907.70	0.3108	P	1.9
6	☐	500.000	508.805	2635595.72	0.6349	A	2.4
7	☐	1000.000	995.813	5266273.81	1.2426	A	0.5
8	☐			4057.27	0.0010	P	14.0

$$y = 0.0012 * x + 4.2665E-005$$

$$R = 0.9999$$

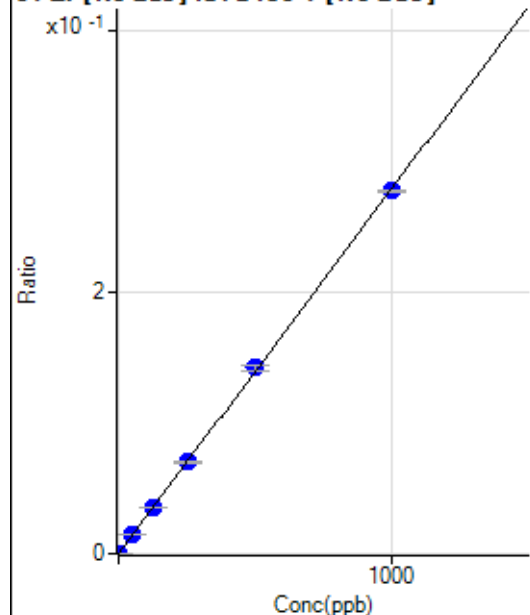
$$DL = 0.01228$$

$$BEC = 0.03419$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.67	0.0000	P	25.0
2	☐	1.000	0.811	1062.27	0.0002	P	0.8
3	☐	50.000	50.199	64286.50	0.0140	P	0.3
4	☐	125.000	125.553	154089.79	0.0351	P	0.4
5	☐	250.000	250.947	303235.75	0.0701	P	1.8
6	☐	500.000	509.115	590068.06	0.1422	P	2.3
7	☐	1000.000	995.127	1177542.84	0.2778	P	0.4
8	☐			908.93	0.0002	P	14.7

$$y = 2.7920E-004 * x + 5.8576E-006$$

$$R = 0.9999$$

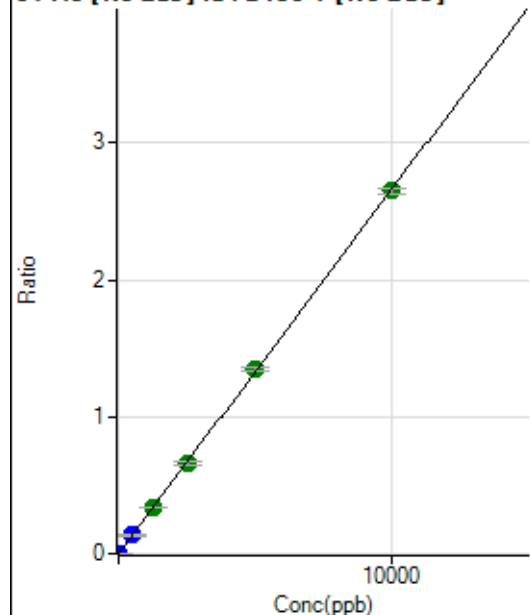
$$DL = 0.01575$$

$$BEC = 0.02098$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	116.67	0.0000	P	23.2
2	☐	5.000	5.024	6225.82	0.0014	P	2.7
3	☐	500.000	502.181	612470.60	0.1336	P	0.4
4	☐	1250.000	1268.155	1482477.39	0.3373	A	1.3
5	☐	2500.000	2484.922	2860089.89	0.6609	A	2.3
6	☐	5000.000	5070.089	5597309.08	1.3485	A	2.4
7	☐	10000.000	9966.347	11234323.44	2.6507	A	1.4
8	☐			8154.58	0.0020	P	13.5

$$y = 2.6596E-004 * x + 2.5656E-005$$

$$R = 1.0000$$

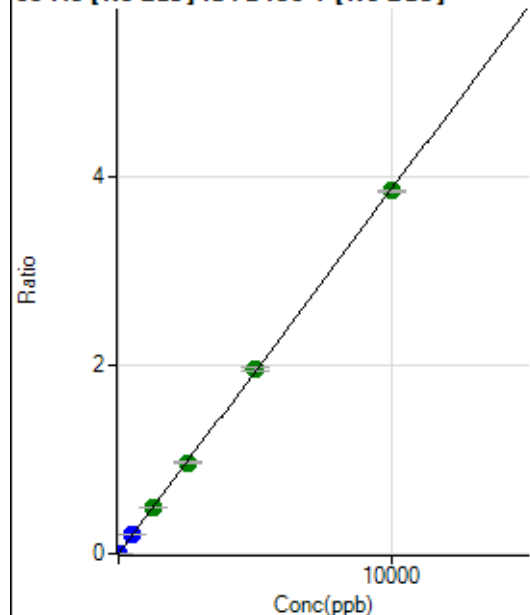
$$DL = 0.06709$$

$$BEC = 0.09647$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	178.89	0.0000	P	10.0
2	☐	5.000	4.200	7612.04	0.0017	P	2.3
3	☐	500.000	503.663	894090.46	0.1950	P	0.4
4	☐	1250.000	1270.145	2161061.88	0.4917	A	0.4
5	☐	2500.000	2505.721	4197981.53	0.9700	A	0.4
6	☐	5000.000	5077.640	8159111.27	1.9656	A	2.7
7	☐	10000.000	9957.049	16335596.01	3.8544	A	0.6
8	☐			11496.87	0.0028	P	14.0

$$y = 3.8710E-004 * x + 3.9267E-005$$

$$R = 1.0000$$

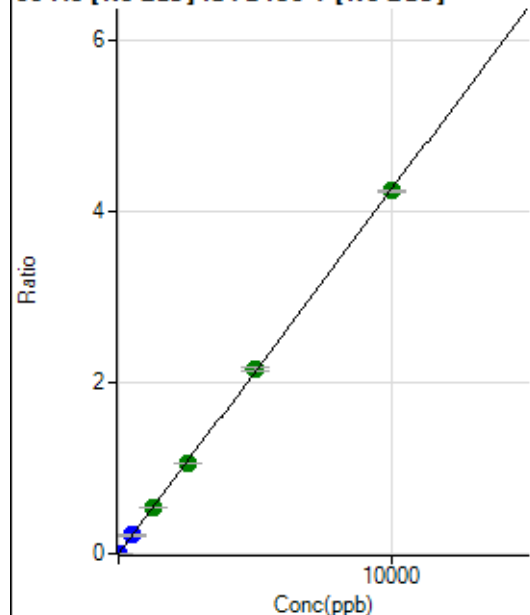
$$DL = 0.03055$$

$$BEC = 0.1014$$

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	73.33	0.0000	P	16.6
2	☐	5.000	4.301	8454.73	0.0018	P	2.0
3	☐	500.000	501.555	980249.78	0.2138	P	0.2
4	☐	1250.000	1261.978	2364214.22	0.5379	A	0.7
5	☐	2500.000	2484.967	4583855.11	1.0592	A	1.5
6	☐	5000.000	5084.157	8995356.88	2.1671	A	2.5
7	☐	10000.000	9960.105	17992157.93	4.2454	A	0.8
8	☐			14004.68	0.0034	P	15.3

$$y = 4.2624\text{E-}004 * x + 1.6118\text{E-}005$$

$$R = 0.9999$$

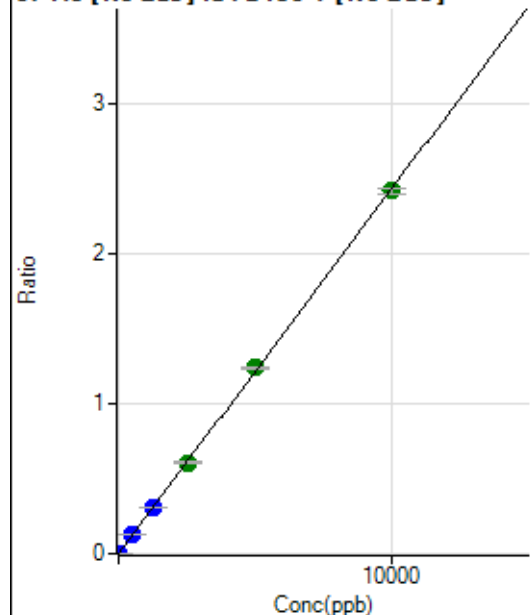
$$DL = 0.01882$$

$$BEC = 0.03781$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	20.6
2	☐	5.000	4.250	4759.72	0.0010	P	0.9
3	☐	500.000	505.054	562621.63	0.1227	P	0.5
4	☐	1250.000	1269.459	1355514.77	0.3084	P	0.4
5	☐	2500.000	2501.549	2630094.06	0.6078	A	1.9
6	☐	5000.000	5096.870	5140293.05	1.2383	A	1.6
7	☐	10000.000	9948.493	10243735.61	2.4170	A	1.4
8	☐			7354.15	0.0018	P	14.3

$$y = 2.4295\text{E-}004 * x + 8.5490\text{E-}006$$

$$R = 0.9999$$

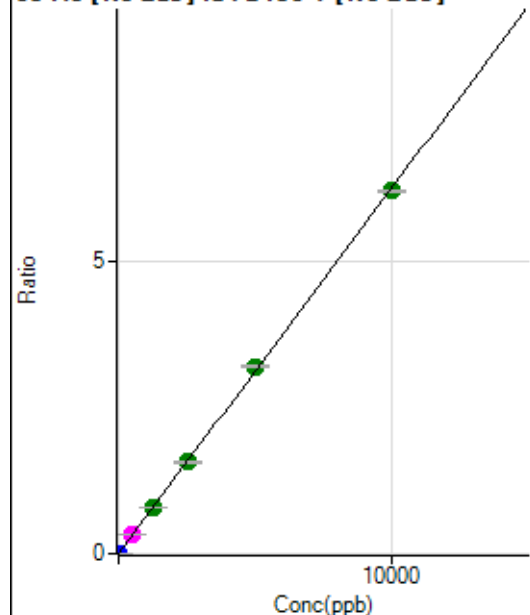
$$DL = 0.02174$$

$$BEC = 0.03519$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	21.2
2	☐	5.000	4.241	12201.84	0.0027	P	1.5
3	☐	500.000	504.779	1450453.36	0.3164	M	0.6
4	☐	1250.000	1259.726	3469792.55	0.7895	A	0.7
5	☐	2500.000	2501.463	6784256.43	1.5677	A	1.5
6	☐	5000.000	5128.187	13341088.00	3.2139	A	1.6
7	☐	10000.000	9934.086	26385542.39	6.2258	A	0.8
8	☐			18362.89	0.0044	P	15.0

$$y = 6.2671E-004 * x + 1.0996E-005$$

$$R = 0.9999$$

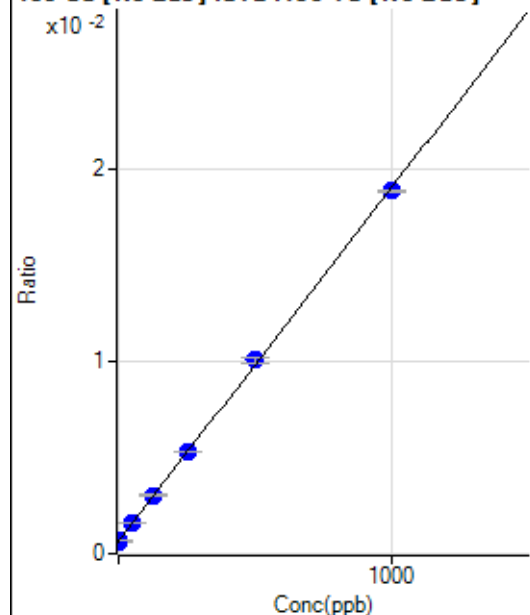
$$DL = 0.01118$$

$$BEC = 0.01755$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD:159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3405.99	0.0006	P	3.5
2	☐	1.000	0.942	3519.35	0.0007	P	1.2
3	☐	50.000	51.517	8561.47	0.0016	P	3.6
4	☐	125.000	130.073	16048.95	0.0030	P	2.8
5	☐	250.000	255.173	27872.30	0.0053	P	0.3
6	☐	500.000	513.187	50849.70	0.0101	P	3.1
7	☐	1000.000	991.403	97480.67	0.0189	P	0.4
8	☐			3193.71	0.0006	P	3.3

$$y = 1.8368E-005 * x + 6.4744E-004$$

$$R = 0.9998$$

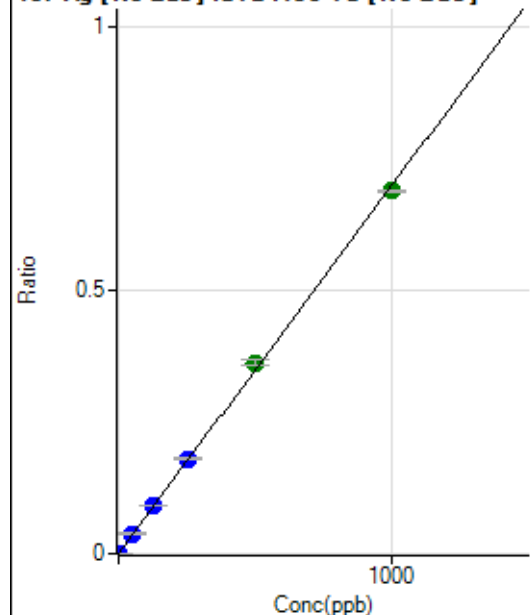
$$DL = 3.655$$

$$BEC = 35.25$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	14.3
2	☐	1.000	0.967	3622.71	0.0007	P	1.2
3	☐	50.000	54.618	204876.10	0.0381	P	1.1
4	☐	125.000	132.363	488392.43	0.0924	P	1.1
5	☐	250.000	258.595	943117.67	0.1805	P	1.0
6	☐	500.000	520.115	1832498.74	0.3630	A	2.6
7	☐	1000.000	986.643	3559912.62	0.6887	A	0.6
8	☐			1304.52	0.0003	P	25.4

$$y = 6.9800\text{E-}004 * x + 9.5131\text{E-}006$$

$$R = 0.9996$$

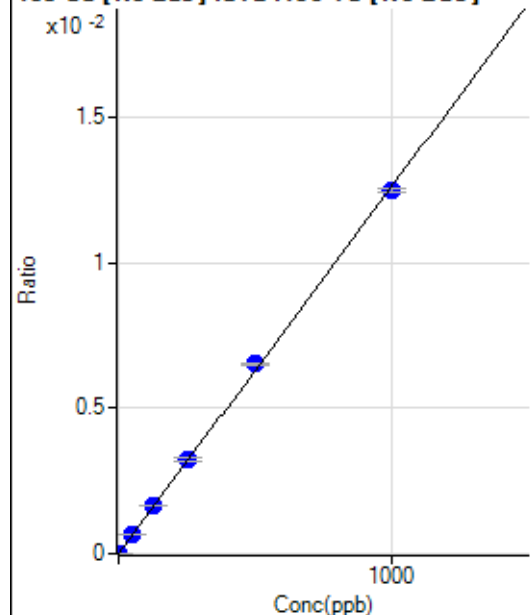
$$DL = 0.005855$$

$$BEC = 0.01363$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	1.030	71.11	0.0000	P	55.7
3	☐	50.000	53.812	3651.61	0.0007	P	0.7
4	☐	125.000	130.782	8727.14	0.0017	P	3.1
5	☐	250.000	256.662	16926.65	0.0032	P	3.3
6	☐	500.000	516.617	32919.58	0.0065	P	1.5
7	☐	1000.000	989.113	64537.14	0.0125	P	1.0
8	☐			134.45	0.0000	P	14.8

$$y = 1.2622\text{E-}005 * x + 4.2037\text{E-}007$$

$$R = 0.9998$$

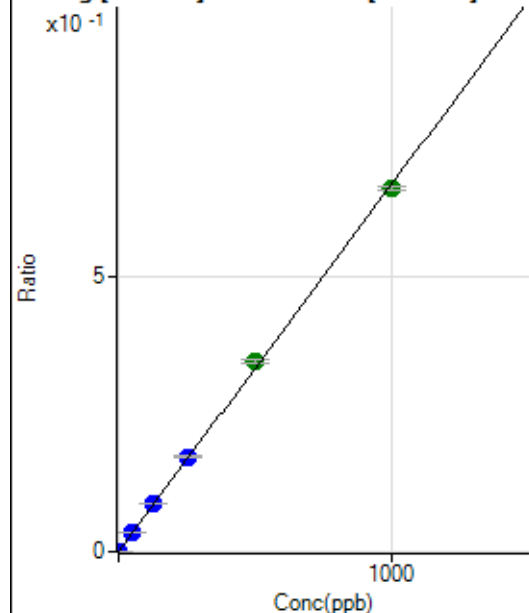
$$DL = 0.08654$$

$$BEC = 0.0333$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.56	0.0000	P	91.6
2	☐	1.000	0.982	3483.78	0.0007	P	0.6
3	☐	50.000	54.181	194832.48	0.0363	P	1.0
4	☐	125.000	132.284	467973.12	0.0885	P	1.3
5	☐	250.000	258.624	904362.32	0.1731	P	1.5
6	☐	500.000	517.400	1747958.40	0.3463	A	2.3
7	☐	1000.000	988.024	3418239.43	0.6613	A	1.0
8	☐			1212.29	0.0002	P	29.8

$$y = 6.6929\text{E-}004 * x + 1.0627\text{E-}006$$

$$R = 0.9997$$

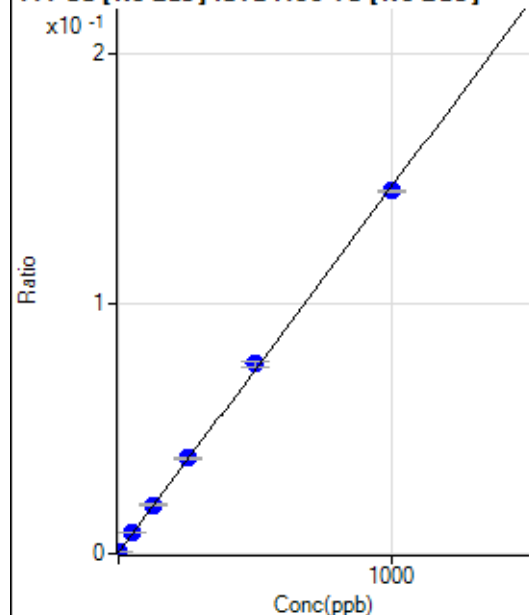
$$DL = 0.004362$$

$$BEC = 0.001588$$

Weight: <None>

Min Conc: 0

111 Cd [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2383.75	0.0005	P	3.5
2	☐	1.000	0.979	3157.13	0.0006	P	3.5
3	☐	50.000	53.493	44478.17	0.0083	P	1.0
4	☐	125.000	130.584	103366.41	0.0196	P	1.1
5	☐	250.000	257.786	199398.24	0.0382	P	1.5
6	☐	500.000	516.420	383620.32	0.0760	P	2.8
7	☐	1000.000	988.971	750197.81	0.1451	P	0.4
8	☐			2470.39	0.0005	P	6.5

$$y = 1.4629\text{E-}004 * x + 4.5313\text{E-}004$$

$$R = 0.9998$$

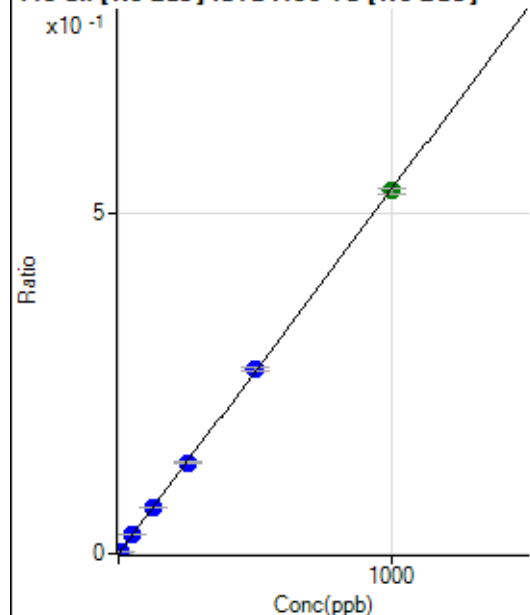
$$DL = 0.3257$$

$$BEC = 3.097$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	711.14	0.0001	P	2.4
2	☐	5.000	4.716	14103.67	0.0027	P	1.3
3	☐	50.000	51.373	148707.00	0.0277	P	0.7
4	☐	125.000	126.291	358591.73	0.0678	P	1.6
5	☐	250.000	249.743	700268.42	0.1340	P	1.6
6	☐	500.000	507.553	1374221.79	0.2723	P	2.7
7	☐	1000.000	996.059	2761179.72	0.5342	A	1.6
8	☐			2602.48	0.0005	P	5.3

$$y = 5.3613\text{E-}004 * x + 1.3519\text{E-}004$$

$$R = 1.0000$$

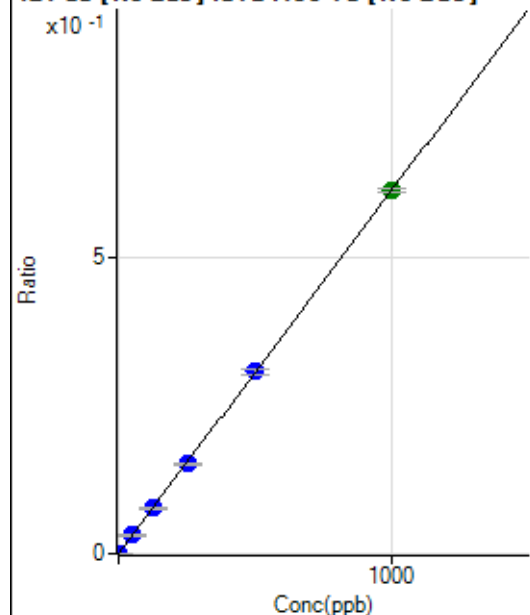
$$DL = 0.0185$$

$$BEC = 0.2522$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0000	P	33.4
2	☐	2.000	1.921	6265.86	0.0012	P	1.5
3	☐	50.000	50.625	167026.76	0.0311	P	1.3
4	☐	125.000	124.947	405548.08	0.0767	P	0.8
5	☐	250.000	247.805	795004.55	0.1522	P	1.4
6	☐	500.000	502.085	1556142.16	0.3083	P	2.8
7	☐	1000.000	999.482	3172401.38	0.6137	A	0.9
8	☐			2846.98	0.0006	P	4.2

$$y = 6.1403\text{E-}004 * x + 3.8006\text{E-}006$$

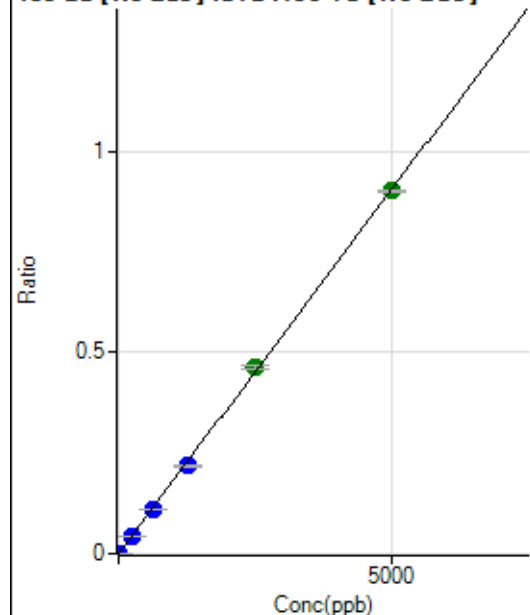
$$R = 1.0000$$

$$DL = 0.006211$$

$$BEC = 0.00619$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24.44	0.0000	P	33.3
2	☐	10.000	9.272	8909.53	0.0017	P	1.1
3	☐	250.000	246.726	239946.57	0.0447	P	0.9
4	☐	625.000	606.314	580067.87	0.1097	P	1.0
5	☐	1250.000	1208.083	1142432.46	0.2187	P	1.3
6	☐	2500.000	2558.328	2337168.19	0.4630	A	2.7
7	☐	5000.000	4983.816	4662888.37	0.9020	A	0.5
8	☐			2435.79	0.0005	P	20.0

$$y = 1.8099\text{E-}004 * x + 4.6363\text{E-}006$$

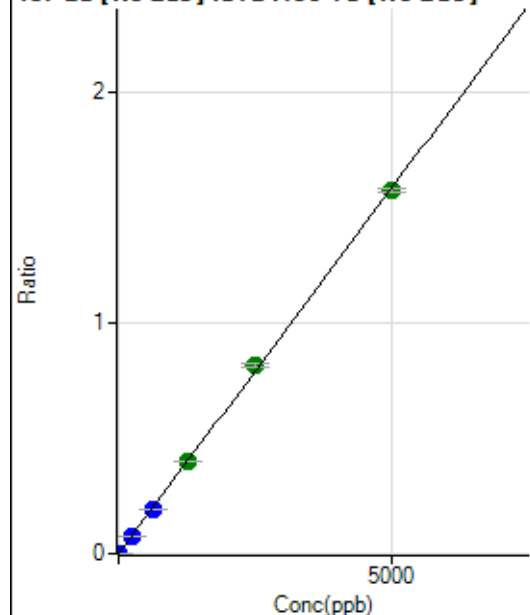
$$R = 0.9999$$

$$DL = 0.02556$$

$$BEC = 0.02562$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD :159 Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	28.89	0.0000	P	17.4
2	☐	10.000	9.311	15626.43	0.0030	P	1.7
3	☐	250.000	246.905	419769.98	0.0781	P	0.5
4	☐	625.000	610.639	1021279.21	0.1932	P	1.2
5	☐	1250.000	1258.387	2080336.78	0.3982	A	1.1
6	☐	2500.000	2569.318	4103861.60	0.8130	A	1.8
7	☐	5000.000	4965.195	8121494.19	1.5710	A	0.9
8	☐			4229.57	0.0009	P	19.4

$$y = 3.1641\text{E-}004 * x + 5.4888\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.009072$$

$$BEC = 0.01735$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			4.44		P	114.
3	☐			77.78		P	20.3
4	☐			202.23		P	5.8
5	☐			345.56		P	8.9
6	☐			668.91		P	11.2
7	☐			1403.42		P	7.1
8	☐			97.78		P	14.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			18.89		P	71.3
4	☐			20.00		P	28.9
5	☐			51.11		P	3.8
6	☐			110.00		P	9.1
7	☐			210.01		P	19.2
8	☐			35.56		P	14.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			8.89		P	94.4
3	☐			20.00		P	57.7
4	☐			30.00		P	11.1
5	☐			66.67		P	15.0
6	☐			131.12		P	14.9
7	☐			215.56		P	12.6
8	☐			162.23		P	7.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.44		P	114.
3	☐			12.22		P	41.7
4	☐			26.67		P	25.0
5	☐			62.22		P	29.5
6	☐			98.89		P	25.5
7	☐			210.00		P	9.7
8	☐			115.56		P	13.0

160 Gd [No Gas] Noavailable calibration poin...

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	18.2
2	☐			26.67		P	12.5
3	☐			25.55		P	15.1
4	☐			37.78		P	43.5
5	☐			31.11		P	16.4
6	☐			71.11		P	2.7
7	☐			88.89		P	8.7
8	☐			147.78		P	20.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			180.00		P	7.4
2	☐			171.12		P	21.5
3	☐			150.00		P	5.9
4	☐			203.34		P	17.7
5	☐			152.22		P	19.9
6	☐			193.34		P	4.6
7	☐			215.56		P	4.7
8	☐			245.56		P	20.9

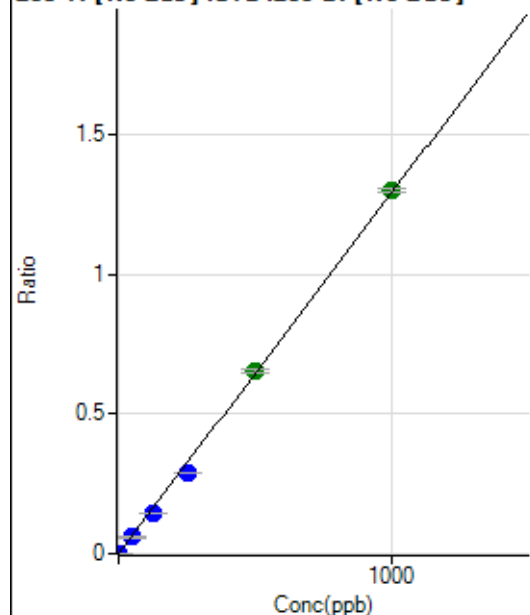
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.55		P	19.5
2	☐			45.56		P	36.1
3	☐			37.78		P	13.5
4	☐			51.11		P	19.9
5	☐			46.67		P	18.9
6	☐			63.33		P	5.3
7	☐			90.00		P	22.2
8	☐			162.23		P	7.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	52.9
2	☐			33.33		P	36.1
3	☐			41.11		P	44.7
4	☐			38.89		P	19.8
5	☐			32.22		P	41.8
6	☐			44.44		P	48.2
7	☐			57.78		P	20.3
8	☐			87.78		P	15.3

203 Tl [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	45.8
2	☐	1.000	0.849	4076.21	0.0011	P	2.6
3	☐	50.000	45.328	218043.41	0.0586	P	0.6
4	☐	125.000	112.105	533454.17	0.1448	P	0.5
5	☐	250.000	224.656	1054585.25	0.2903	P	0.9
6	☐	500.000	505.561	2290429.65	0.6532	A	2.2
7	☐	1000.000	1005.401	4491833.41	1.2990	A	1.2
8	☐			1260.08	0.0004	P	42.1

$$y = 0.0013 * x + 6.0192E-006$$

$$R = 0.9996$$

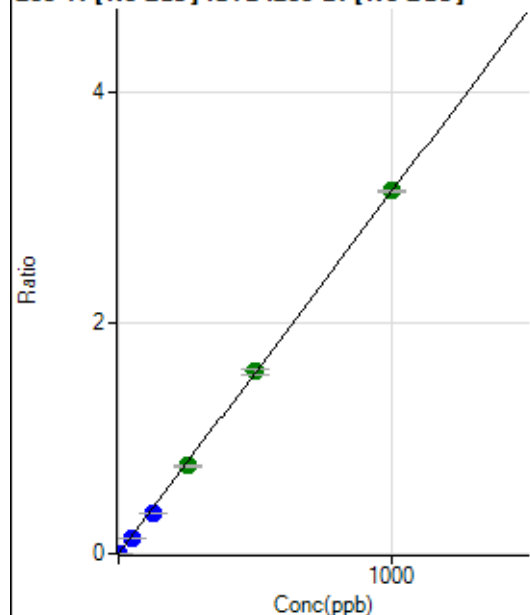
$$DL = 0.006403$$

$$BEC = 0.004659$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	62.22	0.0000	P	25.4
2	☐	1.000	0.831	9700.21	0.0026	P	1.2
3	☐	50.000	44.768	522768.25	0.1404	P	1.0
4	☐	125.000	111.037	1282675.07	0.3483	P	0.3
5	☐	250.000	242.250	2760541.76	0.7598	A	1.0
6	☐	500.000	502.658	5527914.92	1.5766	A	2.6
7	☐	1000.000	1002.616	10874149.98	3.1447	A	0.7
8	☐			3002.61	0.0010	P	33.2

$$y = 0.0031 * x + 1.6882E-005$$

$$R = 0.9999$$

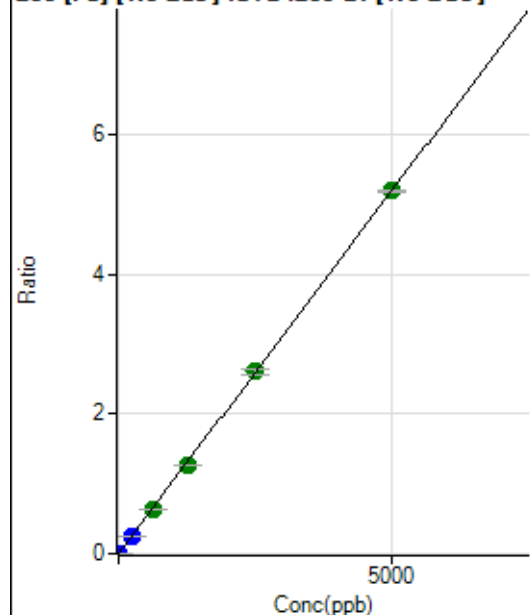
$$DL = 0.004108$$

$$BEC = 0.005383$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	187.78	0.0001	P	26.3
2	☐	1.000	0.869	3522.72	0.0010	P	3.6
3	☐	250.000	230.046	889642.37	0.2390	P	1.0
4	☐	625.000	610.243	2334432.01	0.6339	A	1.2
5	☐	1250.000	1212.005	4573660.49	1.2589	A	0.8
6	☐	2500.000	2517.814	9168474.45	2.6151	A	3.2
7	☐	5000.000	5003.434	17969901.40	5.1967	A	0.8
8	☐			10597.64	0.0035	P	18.2

$$y = 0.0010 * x + 5.0950E-005$$

$$R = 1.0000$$

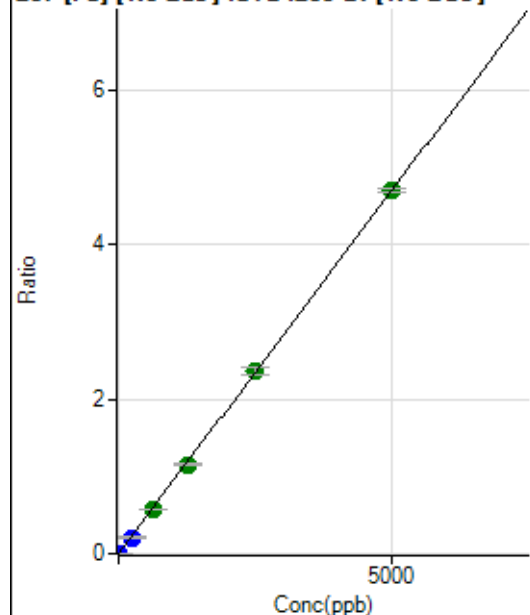
$$DL = 0.03874$$

$$BEC = 0.04906$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	148.89	0.0000	P	12.7
2	☐	1.000	0.831	3034.81	0.0008	P	0.9
3	☐	250.000	224.938	786900.76	0.2114	P	1.2
4	☐	625.000	615.386	2129532.97	0.5782	A	0.9
5	☐	1250.000	1225.240	4182593.59	1.1512	A	1.5
6	☐	2500.000	2516.106	8287363.56	2.3641	A	4.1
7	☐	5000.000	5000.592	16246719.62	4.6984	A	0.9
8	☐			9028.68	0.0030	P	16.0

$$y = 9.3956E-004 * x + 4.0366E-005$$

$$R = 1.0000$$

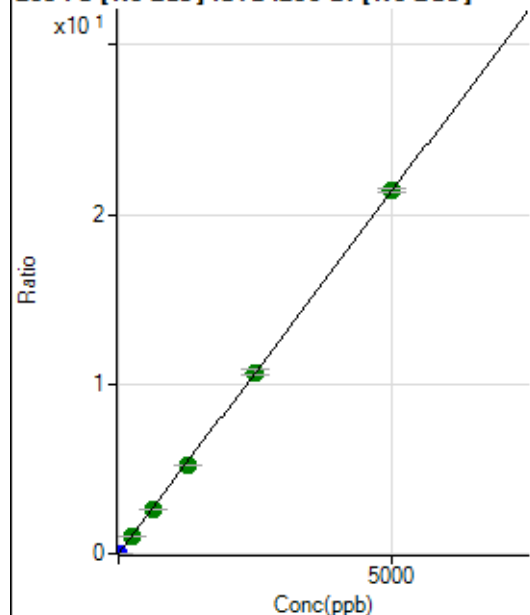
$$DL = 0.01635$$

$$BEC = 0.04296$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	750.02	0.0002	P	12.2
2	☐	1.000	0.826	13793.97	0.0037	P	2.0
3	☐	250.000	235.763	3749333.87	1.0072	A	1.0
4	☐	625.000	610.934	9610645.46	2.6096	A	0.6
5	☐	1250.000	1217.062	18886541.56	5.1984	A	1.4
6	☐	2500.000	2504.261	37497719.09	10.6961	A	3.8
7	☐	5000.000	5008.575	73973750.42	21.3923	A	1.0
8	☐			42273.29	0.0139	P	16.4

$$y = 0.0043 * x + 2.0339E-004$$

$$R = 1.0000$$

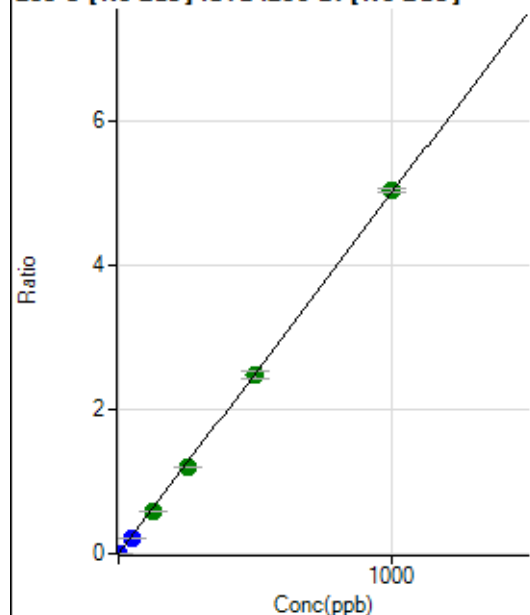
$$DL = 0.01746$$

$$BEC = 0.04762$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0000	P	57.6
2	☐	1.000	0.792	14660.40	0.0040	P	0.8
3	☐	50.000	42.701	795892.81	0.2138	P	1.3
4	☐	125.000	118.338	2182136.39	0.5925	A	0.5
5	☐	250.000	240.582	4376353.16	1.2046	A	0.6
6	☐	500.000	495.025	8688829.59	2.4785	A	3.9
7	☐	1000.000	1006.040	17417906.55	5.0371	A	1.0
8	☐			4187.43	0.0014	P	37.1

$$y = 0.0050 * x + 2.4104E-006$$

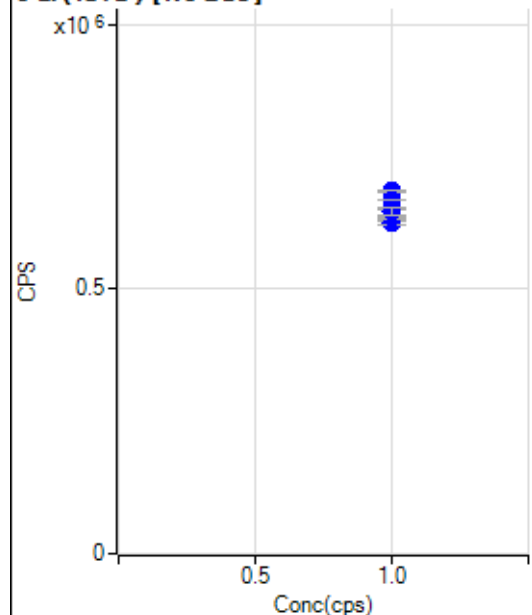
$$R = 0.9999$$

$$DL = 0.0008323$$

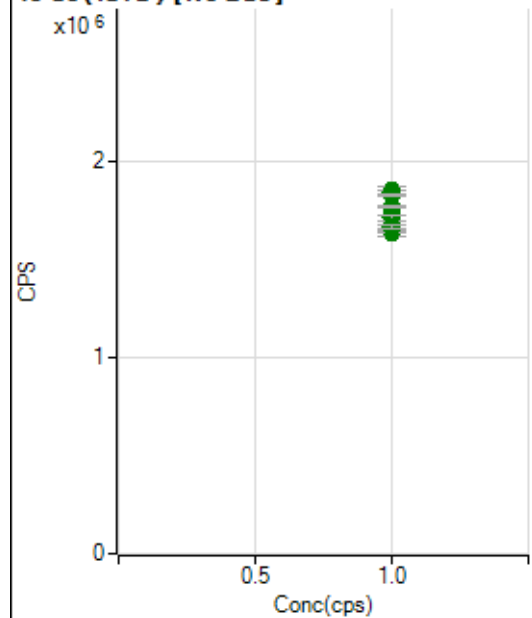
$$BEC = 0.0004814$$

Weight: <None>

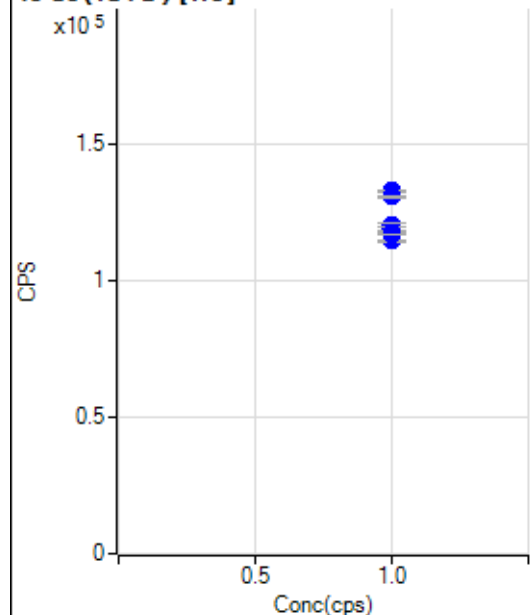
Min Conc: 0

6 Li (ISTD) [No Gas]

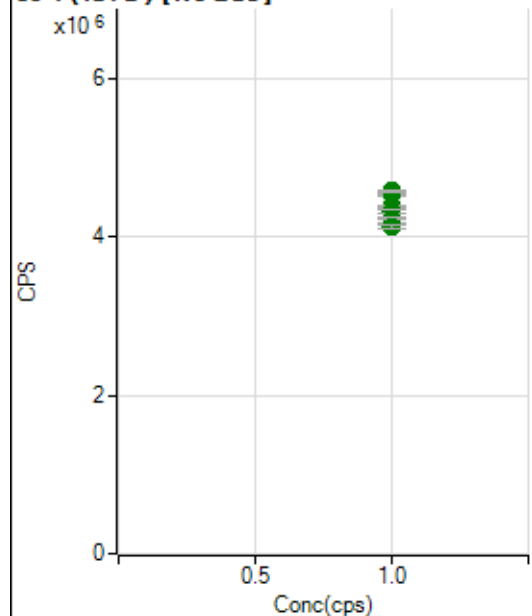
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		684220.29		P	0.8
2	☐	1.000		685426.91		P	0.5
3	☐	1.000		684945.06		P	0.9
4	☐	1.000		668371.61		P	0.2
5	☐	1.000		650219.03		P	0.3
6	☐	1.000		625343.34		P	1.5
7	☐	1.000		634160.28		P	0.1
8	☐	1.000		645655.88		P	2.0

45 Sc (ISTD) [No Gas]

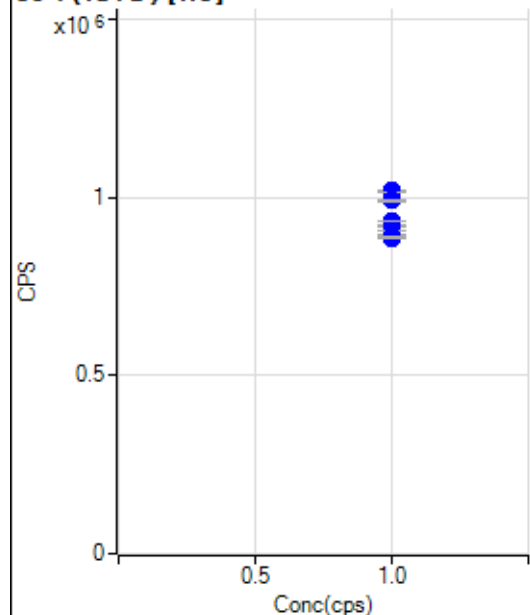
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1852013.07		A	2.0
2	☐	1.000		1843663.13		A	1.4
3	☐	1.000		1834797.50		A	0.5
4	☐	1.000		1768932.40		A	0.4
5	☐	1.000		1713185.03		A	1.8
6	☐	1.000		1639324.58		A	2.1
7	☐	1.000		1647373.43		A	0.6
8	☐	1.000		1667314.21		A	1.2

45 Sc (ISTD) [He]

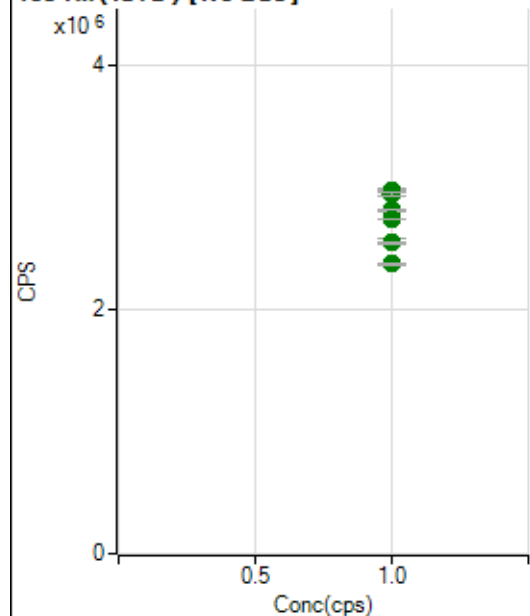
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		133151.86		P	0.2
2	☐	1.000		132852.49		P	0.4
3	☐	1.000		130980.98		P	0.4
4	☐	1.000		119427.64		P	1.0
5	☐	1.000		120500.83		P	1.1
6	☐	1.000		117690.13		P	0.7
7	☐	1.000		114841.91		P	0.3
8	☐	1.000		117422.23		P	0.1

89 Y (ISTD) [No Gas]

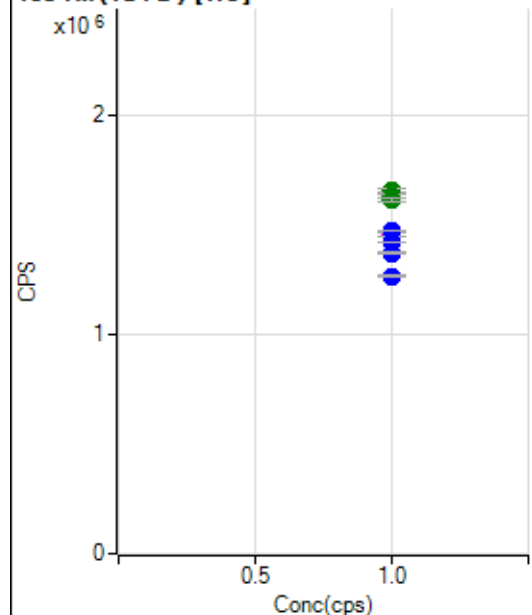
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4554664.62		A	1.4
2	☐	1.000		4571765.45		A	0.7
3	☐	1.000		4584921.11		A	0.5
4	☐	1.000		4395002.82		A	0.5
5	☐	1.000		4327789.66		A	0.8
6	☐	1.000		4151673.76		A	1.6
7	☐	1.000		4238047.19		A	0.7
8	☐	1.000		4136828.10		A	1.3

89 Y(ISTD) [He]

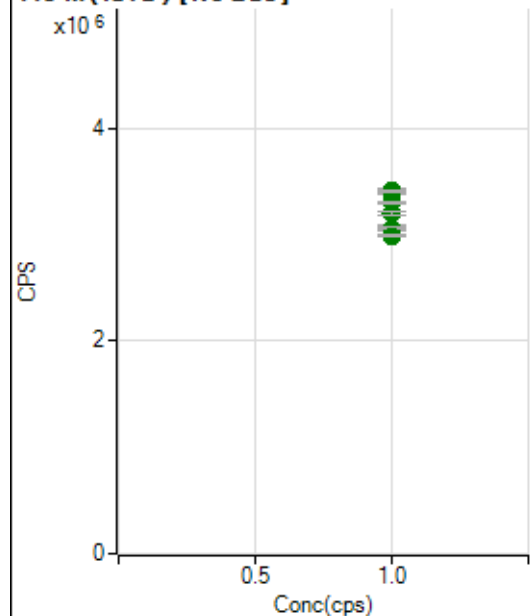
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1017526.43		P	0.3
2	☐	1.000		1013292.09		P	0.2
3	☐	1.000		991121.22		P	0.5
4	☐	1.000		917859.05		P	0.6
5	☐	1.000		933367.41		P	0.1
6	☐	1.000		907432.29		P	0.1
7	☐	1.000		891989.51		P	0.4
8	☐	1.000		885348.10		P	0.5

103 Rh(ISTD) [No Gas]

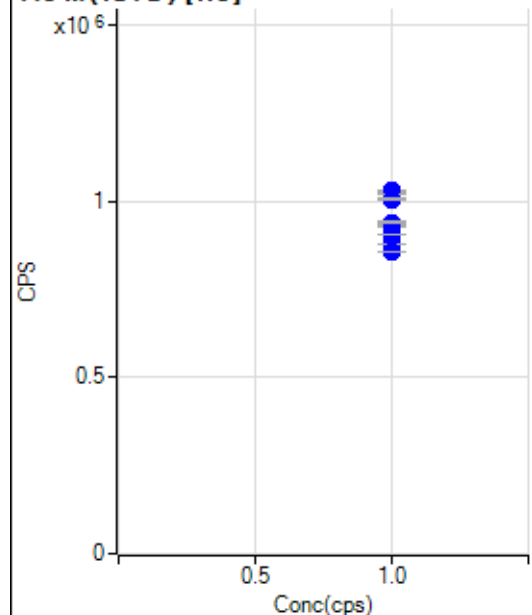
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2966801.00		A	1.1
2	☐	1.000		2967192.80		A	0.2
3	☐	1.000		2939547.80		A	0.8
4	☐	1.000		2814141.94		A	0.6
5	☐	1.000		2732826.69		A	0.2
6	☐	1.000		2551382.16		A	1.7
7	☐	1.000		2541328.90		A	0.6
8	☐	1.000		2368745.09		A	0.3

103 Rh (ISTD) [He]

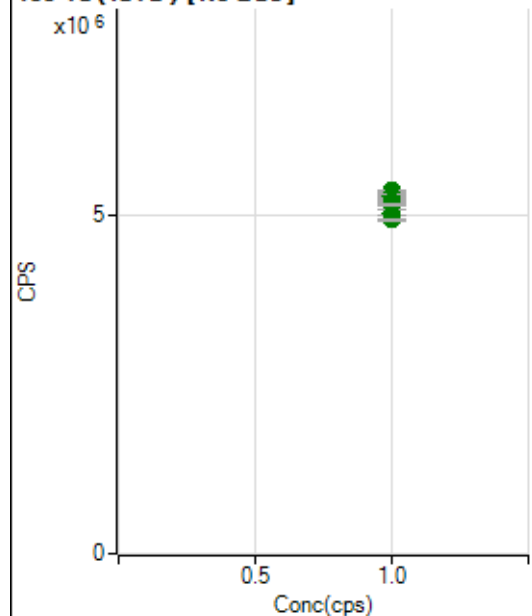
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1658463.79		A	0.9
2	☐	1.000		1637266.92		A	1.0
3	☐	1.000		1620968.15		A	1.1
4	☐	1.000		1461518.22		M	0.9
5	☐	1.000		1477611.02		P	0.4
6	☐	1.000		1424330.01		P	0.1
7	☐	1.000		1375412.60		P	0.5
8	☐	1.000		1267751.01		P	0.7

115 In (ISTD) [No Gas]

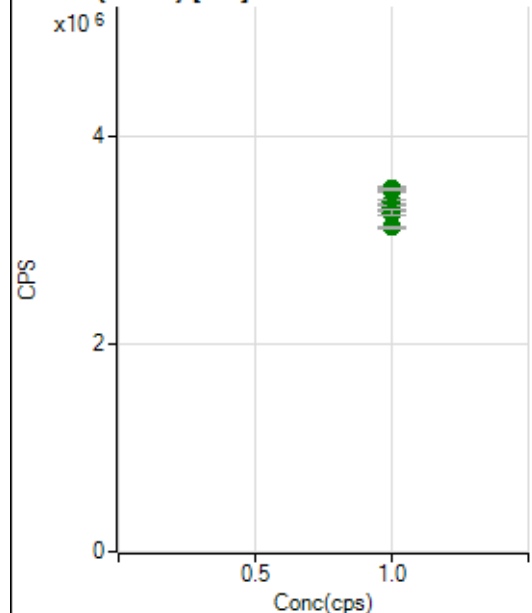
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3399348.52		A	1.0
2	☐	1.000		3413837.73		A	1.0
3	☐	1.000		3409948.22		A	0.8
4	☐	1.000		3305508.45		A	0.3
5	☐	1.000		3206771.71		A	0.9
6	☐	1.000		3064057.74		A	1.5
7	☐	1.000		3065072.71		A	0.5
8	☐	1.000		2990437.32		A	0.3

115 In (ISTD) [He]

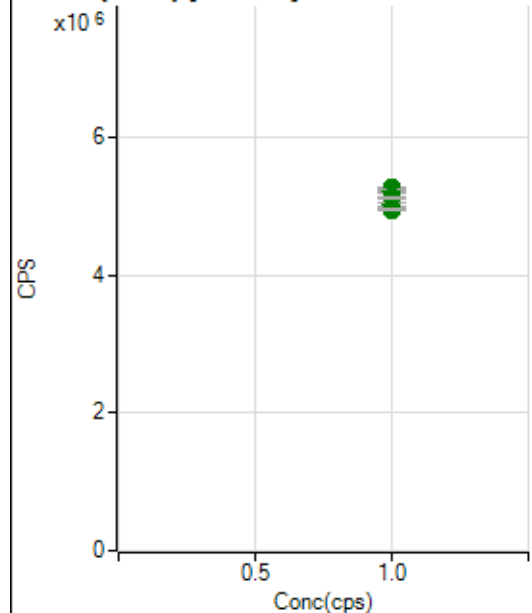
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1029420.94		P	0.3
2	☐	1.000		1021588.49		P	0.2
3	☐	1.000		1005429.35		P	0.5
4	☐	1.000		927745.05		P	0.6
5	☐	1.000		940784.28		P	0.3
6	☐	1.000		907036.86		P	0.2
7	☐	1.000		878390.08		P	0.2
8	☐	1.000		856874.53		P	0.5

159 Tb (ISTD) [No Gas]

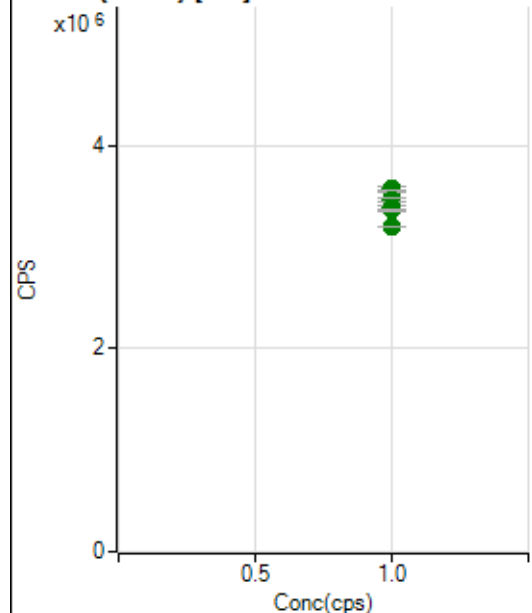
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5261096.24		A	1.1
2	☐	1.000		5294850.96		A	1.2
3	☐	1.000		5372907.00		A	0.7
4	☐	1.000		5286050.93		A	1.0
5	☐	1.000		5224919.23		A	0.7
6	☐	1.000		5049028.85		A	1.8
7	☐	1.000		5169270.48		A	0.7
8	☐	1.000		4949598.36		A	0.8

159 Tb (ISTD) [He]

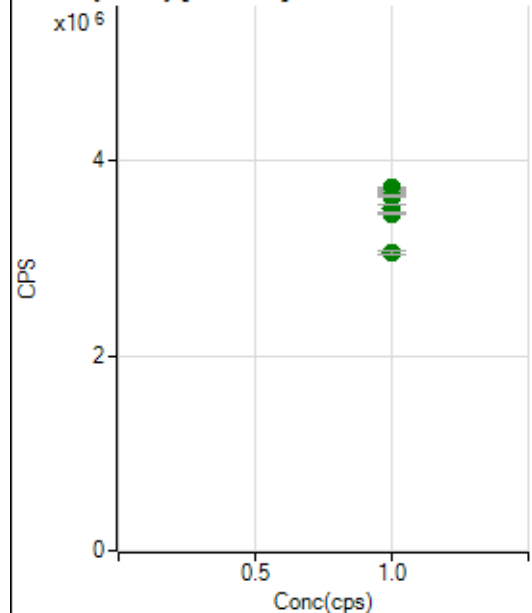
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3482613.98		A	0.5
2	☐	1.000		3485086.24		A	1.6
3	☐	1.000		3489135.85		A	0.7
4	☐	1.000		3279302.87		A	0.6
5	☐	1.000		3366327.97		A	1.4
6	☐	1.000		3311974.78		A	1.0
7	☐	1.000		3262522.52		A	1.5
8	☐	1.000		3116881.79		A	1.0

165 Ho (ISTD) [No Gas]

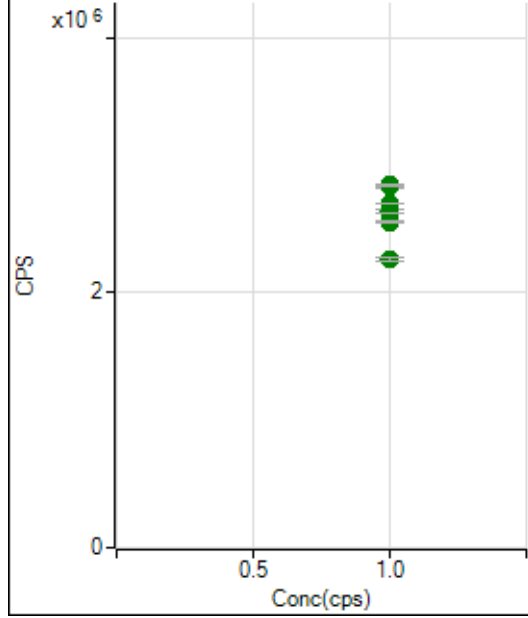
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5239363.81		A	0.8
2	☐	1.000		5239084.23		A	0.2
3	☐	1.000		5273816.97		A	0.5
4	☐	1.000		5242121.55		A	0.7
5	☐	1.000		5224990.27		A	1.1
6	☐	1.000		5034766.94		A	1.1
7	☐	1.000		5136226.66		A	0.7
8	☐	1.000		4958826.38		A	0.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3553806.99		A	0.5
2	☐	1.000		3574954.25		A	1.4
3	☐	1.000		3554321.72		A	0.6
4	☐	1.000		3364530.51		A	0.2
5	☐	1.000		3462749.46		A	1.1
6	☐	1.000		3396791.44		A	1.3
7	☐	1.000		3364276.30		A	0.2
8	☐	1.000		3204915.96		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3689530.50		A	0.8
2	☐	1.000		3695926.72		A	1.3
3	☐	1.000		3722829.74		A	0.7
4	☐	1.000		3682870.67		A	0.3
5	☐	1.000		3633164.67		A	0.5
6	☐	1.000		3507529.53		A	2.1
7	☐	1.000		3457934.60		A	0.7
8	☐	1.000		3055104.40		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2847171.76		A	0.5
2	☐	1.000		2834774.75		A	0.5
3	☐	1.000		2844029.16		A	0.4
4	☐	1.000		2639441.94		A	1.6
5	☐	1.000		2702428.71		A	0.4
6	☐	1.000		2626373.19		A	0.2
7	☐	1.000		2555246.04		A	0.6
8	☐	1.000		2267387.93		A	1.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7062824-MS.b

Acq. Date-Time 2024-06-28 12:23:08

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3596	35957.98			0.521	5.000
24		36467	364674.31			0.618	5.000
25		4699	46989.76			0.756	5.000
26		5427	54272.19			0.959	5.000
59		33978	339784.83			0.583	5.000
113		5169	51694.50			0.549	5.000
115		64590	645900.91			0.717	5.000
206		20123	201234.34			0.764	5.000
207		18670	186698.57			0.618	5.000
208		43490	434901.15			0.838	5.000
220		0	0.90			60.858	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

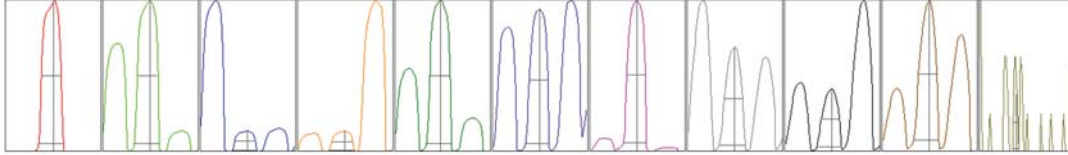
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3580	3591	3600	3626	3582
24	36147	36328	36609	36553	36700
25	4668	4664	4697	4749	4718
26	5363	5380	5463	5477	5454
59	33645	33974	34029	34153	34092
113	5125	5179	5166	5202	5175
115	63803	64613	64702	64838	64994
206	19892	20065	20180	20300	20180
207	18520	18748	18586	18800	18694
208	42979	43416	43438	43981	43637

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6091.36	9.05	8.90 - 9.10	
24	57258.09	24.00	23.90 - 24.10	
25	7477.40	25.00	24.90 - 25.10	
26	8360.06	26.00	25.90 - 26.10	
59	54793.92	58.95	58.90 - 59.10	
113	9094.44	113.00	112.90 - 113.10	
115	115296.67	115.00	114.90 - 115.10	
206	36016.30	206.00	205.90 - 206.10	
207	32744.84	207.00	206.90 - 207.10	
208	78636.45	208.00	207.90 - 208.10	
220	0.15	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.778	0.900	
24	0.66	0.789	0.900	
25	0.66	0.774	0.900	
26	0.66	0.789	0.900	
59	0.64	0.792	0.900	
113	0.57	0.745	0.900	
115	0.57	0.739	0.900	
206	0.57	0.828	0.900	
207	0.57	0.780	0.900	
208	0.57	0.796	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	15.0 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.5 mm
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EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1401 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9712	97115.51			2.216	
89		12986	129860.81			2.408	
205		21341	213414.34			2.202	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9859	9334	9803	9818	9744
89	13187	12435	13114	13153	13041
205	21751	20550	21393	21634	21378

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.1 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-120.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.5 mm
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EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1401 V
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