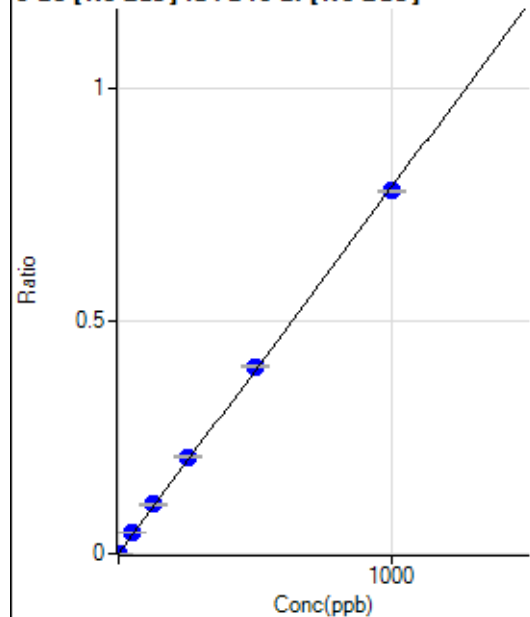


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7061424-MS1.b\
Analysis File: P7061424-MS1.batch.bin
DA Date-Time: 2024-06-18 13:32:48
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-06-14 12:57:21
2	005CALS.d	S02	2024-06-14 13:00:40
3	006CALS.d	S03	2024-06-14 13:04:01
4	007CALS.d	S04	2024-06-14 13:07:14
5	008CALS.d	S05	2024-06-14 13:10:21
6	009CALS.d	S06	2024-06-14 13:13:20
7	010CALS.d	S07	2024-06-14 13:16:15
8	011CALS.d	S08	2024-06-14 13:19:05

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	84.45	0.0001	P	31.6
2	☐	1.000	1.093	900.04	0.0009	P	6.2
3	☐	50.000	55.214	41317.01	0.0435	P	0.1
4	☐	125.000	134.392	98729.49	0.1058	P	1.8
5	☐	250.000	262.851	192503.48	0.2068	P	2.2
6	☐	500.000	510.065	367750.78	0.4012	P	1.1
7	☐	1000.000	990.320	720062.62	0.7789	P	0.8
8	☐			762.25	0.0008	P	17.0

$$y = 7.8639E-004 * x + 8.8620E-005$$

$$R = 0.9998$$

$$DL = 0.1068$$

$$BEC = 0.1127$$

Weight: <None>

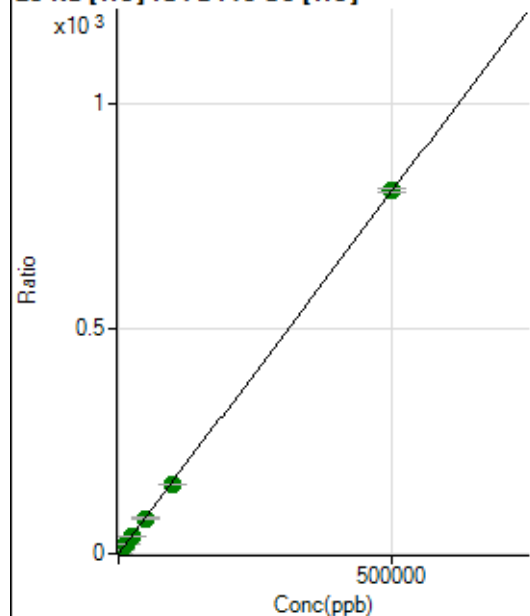
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj 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	8837.06	0.0560	P	0.9
2	☐	500.000	466.448	126563.60	0.8064	P	1.7
3	☐	5000.000	5227.887	1230819.66	8.4657	A	8.7
4	☐	12500.000	12084.857	2915324.75	19.4959	A	0.2
5	☐	25000.000	24334.329	5781500.05	39.2006	A	1.0
6	☐	50000.000	48654.963	11128991.50	78.3232	A	3.7
7	☐	100000.00	95734.346	22041991.90	154.0558	A	0.7
8	☐	500000.00	501029.05	118625578.2	806.0191	A	1.2

$$y = 0.0016 * x + 0.0560$$

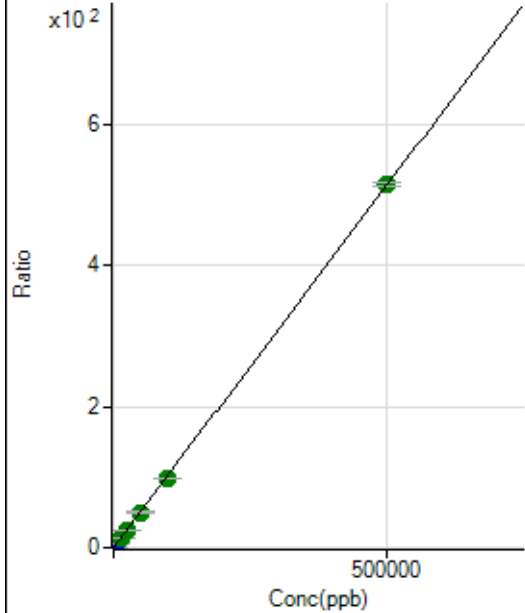
$$R = 1.0000$$

$$DL = 0.9264$$

$$BEC = 34.83$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1174.50	0.0074	P	3.5
2	☐	500.000	468.362	76595.91	0.4880	P	1.0
3	☐	5000.000	5440.807	812819.07	5.5899	P	8.5
4	☐	12500.000	12381.404	1900782.87	12.7112	A	1.9
5	☐	25000.000	24412.064	3695245.15	25.0551	A	1.0
6	☐	50000.000	48987.402	7143716.07	50.2703	A	3.4
7	☐	100000.00	95376.492	14002829.24	97.8672	A	0.6
8	☐	500000.00	501053.94	75665038.87	514.1070	A	0.9

$$y = 0.0010 * x + 0.0074$$

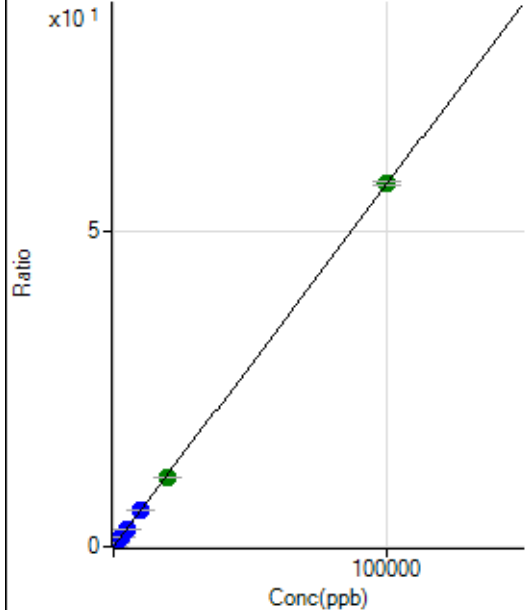
$$R = 1.0000$$

$$DL = 0.7701$$

$$BEC = 7.258$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	122.23	0.0008	P	21.9
2	☐	20.000	18.894	1821.24	0.0116	P	5.0
3	☐	1000.000	1074.705	89670.93	0.6167	P	8.6
4	☐	2500.000	2514.869	215649.69	1.4421	P	0.6
5	☐	5000.000	5014.716	424019.49	2.8749	P	0.4
6	☐	10000.000	10115.493	823982.93	5.7983	P	3.2
7	☐	20000.000	18992.422	1557606.33	10.8861	A	0.6
8	☐	100000.00	100188.11	8451539.46	57.4224	A	1.0

$$y = 5.7314E-004 * x + 7.7483E-004$$

$$R = 0.9999$$

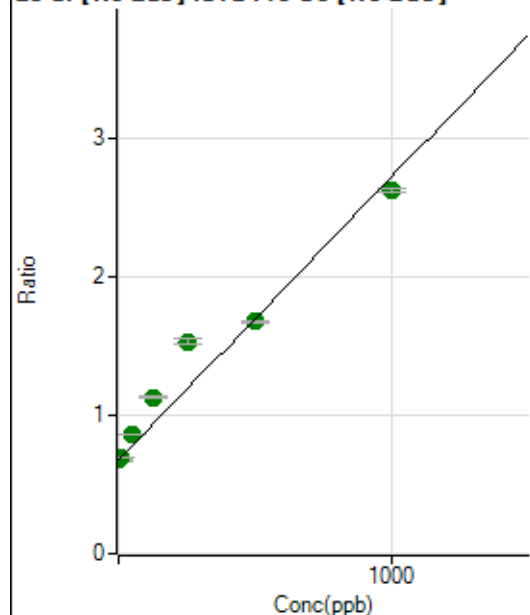
$$DL = 0.8887$$

$$BEC = 1.352$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1291761.43	0.6754	A	2.0
2	☐	10.000	11.726	1334098.32	0.6994	A	0.2
3	☐	50.000	93.380	1649214.85	0.8666	A	0.0
4	☐	125.000	221.733	2100634.33	1.1293	A	1.7
5	☐	250.000	417.566	2822815.44	1.5302	A	3.0
6	☐	500.000	488.348	2984750.30	1.6751	A	1.3
7	☐	1000.000	949.656	4622030.97	2.6193	A	0.9
8	☐			1331705.03	0.7474	A	4.1

$$y = 0.0020 * x + 0.6754$$

$$R = 0.9800$$

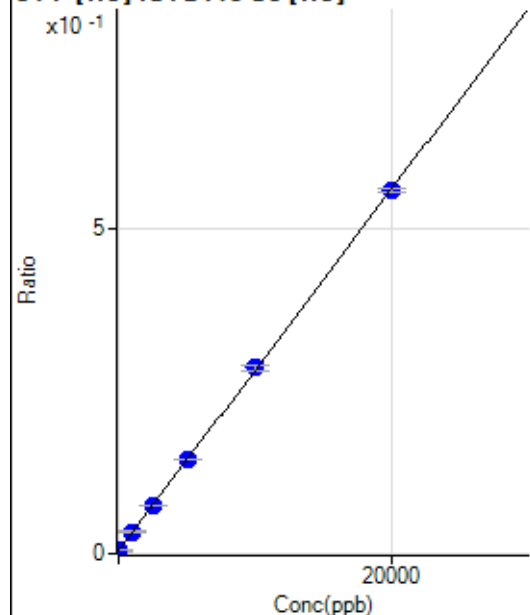
$$DL = 19.88$$

$$BEC = 330$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-14.534	675.58	0.0043	P	2.3
2	☐	0.000	14.534	798.92	0.0051	P	1.4
3	☐	1000.000	1051.755	4925.28	0.0339	P	8.6
4	☐	2500.000	2529.025	11196.40	0.0749	P	0.4
5	☐	5000.000	5059.071	21398.38	0.1451	P	1.2
6	☐	10000.000	10121.133	40587.07	0.2856	P	2.9
7	☐	20000.000	19918.450	79762.81	0.5575	P	1.0
8	☐			747.80	0.0051	P	3.8

$$y = 2.7753E-005 * x + 0.0047$$

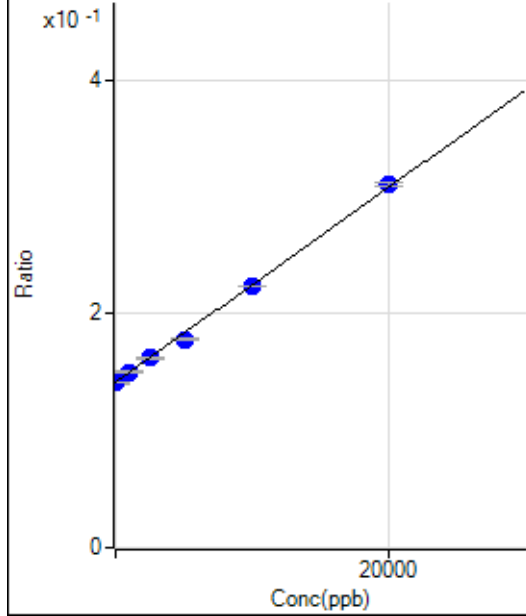
$$R = 1.0000$$

$$DL = 9.278$$

$$BEC = 168.9$$

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	-32.560	270651.90	0.1415	P	1.6
2	☐	0.000	32.560	270961.55	0.1421	P	0.3
3	☐	1000.000	1049.678	286477.95	0.1505	P	1.0
4	☐	2500.000	2462.408	301918.22	0.1623	P	1.5
5	☐	5000.000	4393.192	329165.19	0.1784	P	1.6
6	☐	10000.000	9822.131	398507.11	0.2236	P	0.2
7	☐	20000.000	20242.852	547874.83	0.3105	P	1.2
8	☐			263663.45	0.1479	P	1.6

$$y = 8.3339\text{E-}006 * x + 0.1418$$

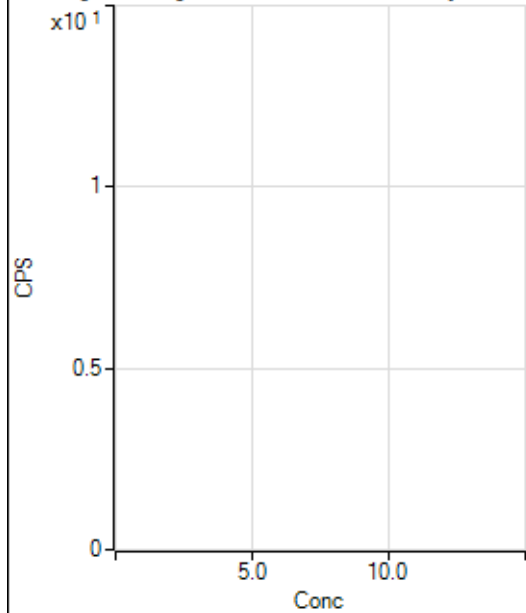
$$R = 0.9994$$

$$DL = 475$$

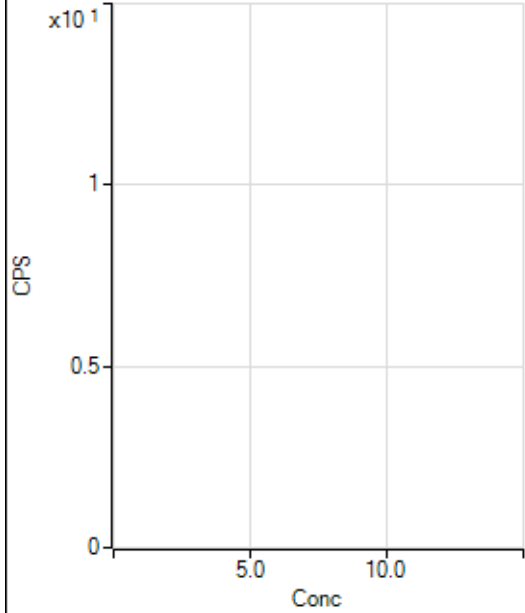
$$BEC = 1.701\text{E}+04$$

Weight: <None>

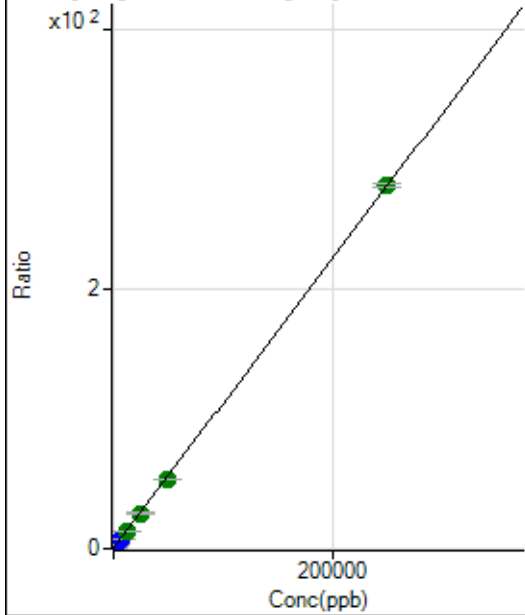
Min Conc: 0

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	76259.73	0.4835	P	0.7
2	☐	500.000	478.518	159509.60	1.0162	P	0.4
3	☐	2500.000	2779.526	520241.68	3.5780	P	8.5
4	☐	6250.000	6450.578	1146182.50	7.6650	P	0.3
5	☐	12500.000	12045.521	2049150.51	13.8938	A	0.8
6	☐	25000.000	24065.380	3876522.79	27.2756	A	3.2
7	☐	50000.000	47636.829	7657212.52	53.5178	A	1.2
8	☐	250000.00	250581.05	41129813.55	279.4564	A	0.9

$$y = 0.0011 * x + 0.4835$$

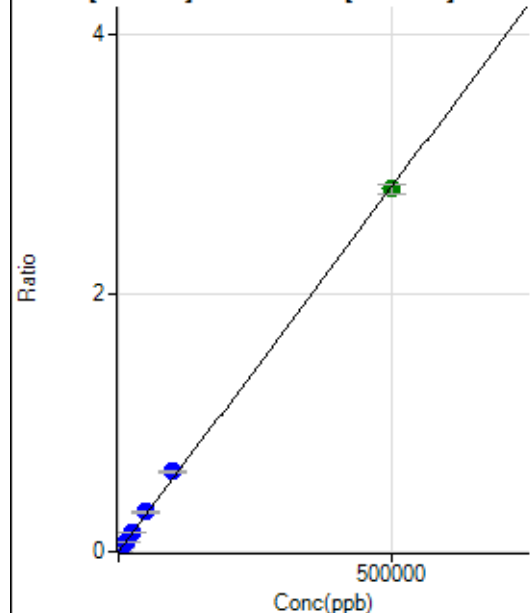
$$R = 0.9999$$

$$DL = 9.315$$

$$BEC = 434.3$$

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	205.56	0.0001	P	3.8
2	☐	500.000	472.239	5286.53	0.0028	P	3.1
3	☐	5000.000	5615.372	60493.22	0.0318	P	0.4
4	☐	12500.000	13767.534	144650.20	0.0778	P	3.0
5	☐	25000.000	27134.171	282589.66	0.1532	P	3.0
6	☐	50000.000	54258.185	545618.41	0.3062	P	0.8
7	☐	100000.00	109483.05	1090026.30	0.6178	P	1.7
8	☐	500000.00	497533.04	5002615.69	2.8069	A	2.9

$$y = 5.6415\text{E-}006 * x + 1.0749\text{E-}004$$

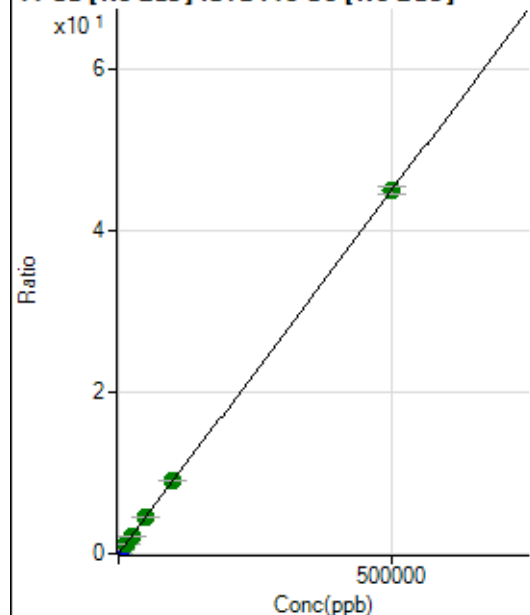
$$R = 0.9998$$

$$DL = 2.166$$

$$BEC = 19.05$$

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	19774.11	0.0103	P	0.2
2	☐	500.000	483.348	102547.79	0.0538	P	0.5
3	☐	5000.000	5413.343	945253.74	0.4967	P	0.1
4	☐	12500.000	12579.146	2121192.73	1.1405	A	2.4
5	☐	25000.000	24477.893	4076349.59	2.2095	A	2.2
6	☐	50000.000	49596.069	7958075.99	4.4661	A	0.9
7	☐	100000.00	100950.74	16021689.90	9.0799	A	1.5
8	☐	500000.00	499870.25	80059731.58	44.9192	A	2.0

$$y = 8.9841\text{E-}005 * x + 0.0103$$

$$R = 1.0000$$

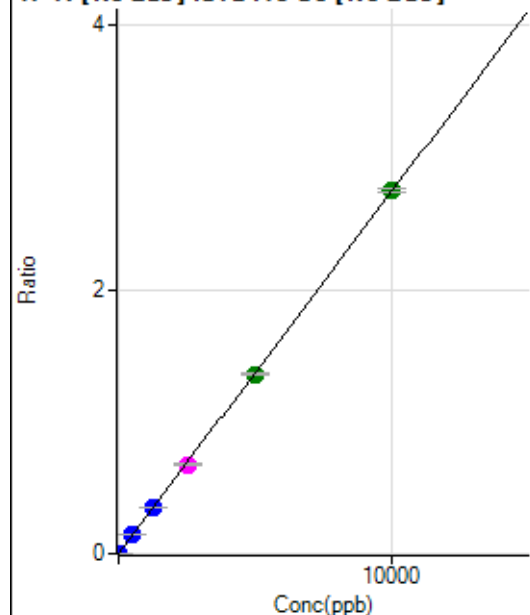
$$DL = 0.712$$

$$BEC = 115.1$$

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	81.11	0.0000	P	20.4
2	☐	5.000	4.299	2327.98	0.0012	P	1.6
3	☐	500.000	514.394	268355.14	0.1410	P	1.0
4	☐	1250.000	1270.593	647741.05	0.3482	P	2.1
5	☐	2500.000	2467.931	1247780.90	0.6764	M	2.9
6	☐	5000.000	4958.412	2421348.96	1.3589	A	1.3
7	☐	10000.000	10025.518	4848091.18	2.7475	A	1.2
8	☐			1047.83	0.0006	P	25.3

$$y = 2.7404\text{E-}004 * x + 4.2414\text{E-}005$$

$$R = 1.0000$$

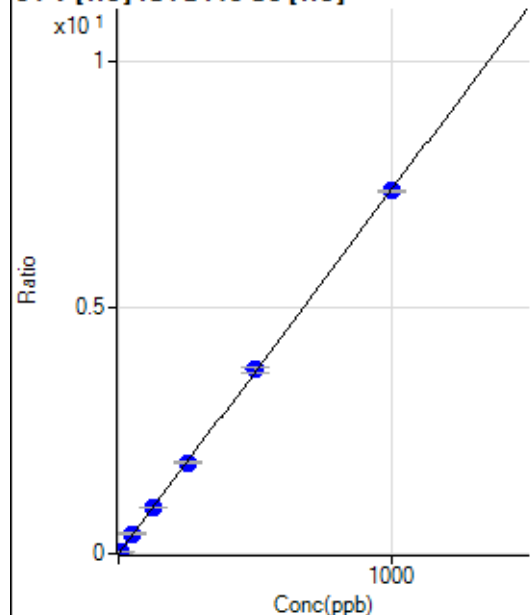
$$DL = 0.09453$$

$$BEC = 0.1548$$

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	18.89	0.0001	P	36.8
2	☐	5.000	4.890	5695.57	0.0363	P	1.0
3	☐	50.000	53.250	57254.64	0.3940	P	9.4
4	☐	125.000	126.689	140138.69	0.9372	P	0.6
5	☐	250.000	250.274	273033.29	1.8513	P	0.9
6	☐	500.000	505.184	531009.26	3.7367	P	3.2
7	☐	1000.000	996.966	1055081.67	7.3741	P	0.5
8	☐			392.23	0.0027	P	1.4

$$y = 0.0074 * x + 1.1978\text{E-}004$$

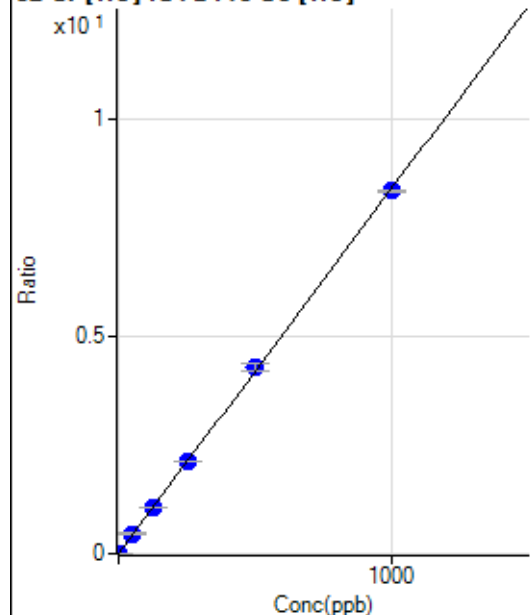
$$R = 1.0000$$

$$DL = 0.01789$$

$$BEC = 0.01619$$

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	0.0017	P	5.2
2	☐	2.000	1.918	2804.73	0.0179	P	4.5
3	☐	50.000	54.733	67177.57	0.4621	P	8.8
4	☐	125.000	128.239	161540.14	1.0803	P	0.3
5	☐	250.000	251.602	312342.11	2.1178	P	1.0
6	☐	500.000	509.912	609613.98	4.2903	P	3.7
7	☐	1000.000	994.002	1196377.18	8.3617	P	0.5
8	☐			11862.55	0.0806	P	1.9

$$y = 0.0084 * x + 0.0017$$

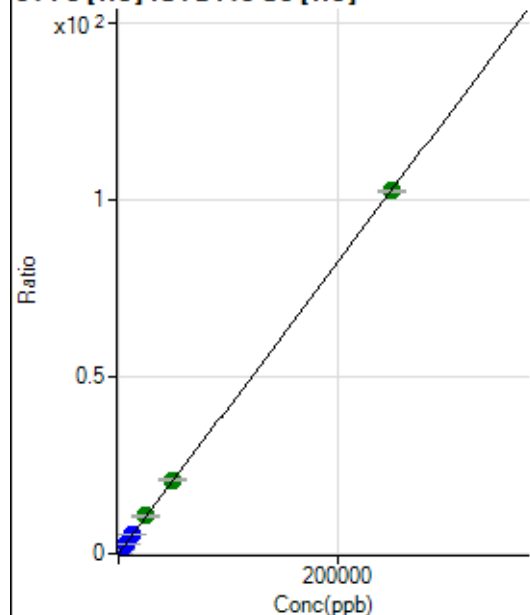
$$R = 0.9999$$

$$DL = 0.03244$$

$$BEC = 0.2061$$

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	1095.61	0.0069	P	9.4
2	☐	50.000	53.836	4561.84	0.0291	P	4.7
3	☐	2500.000	2967.624	178252.00	1.2263	P	9.0
4	☐	6250.000	6932.435	426968.31	2.8553	P	0.5
5	☐	12500.000	13702.579	831365.07	5.6369	P	0.9
6	☐	25000.000	25998.707	1518922.15	10.6890	A	3.4
7	☐	50000.000	50806.070	2987706.34	20.8817	A	0.8
8	☐	250000.00	249657.04	15098445.89	102.5837	A	0.6

$$y = 4.1087E-004 * x + 0.0069$$

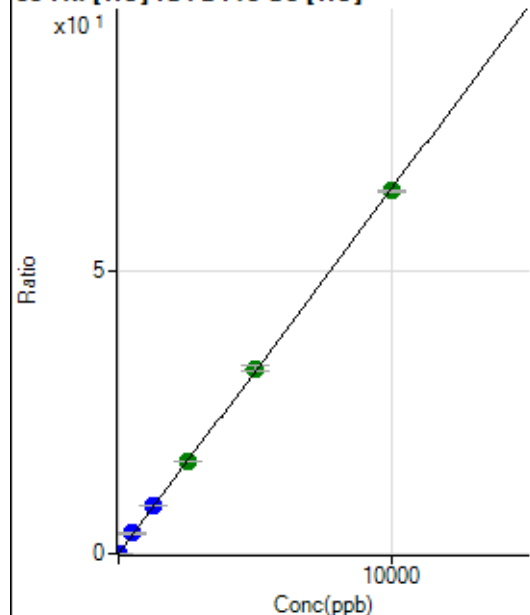
$$R = 1.0000$$

$$DL = 4.786$$

$$BEC = 16.91$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	153.34	0.0010	P	11.4
2	☐	1.000	1.279	1447.86	0.0092	P	5.4
3	☐	500.000	561.413	526619.72	3.6231	P	9.1
4	☐	1250.000	1316.210	1269972.63	8.4928	P	0.4
5	☐	2500.000	2524.078	2401958.13	16.2856	A	0.9
6	☐	5000.000	5072.459	4650884.86	32.7271	A	3.2
7	☐	10000.000	9946.404	9181766.25	64.1724	A	0.6
8	☐			5985.69	0.0407	P	1.9

$$y = 0.0065 * x + 9.7210E-004$$

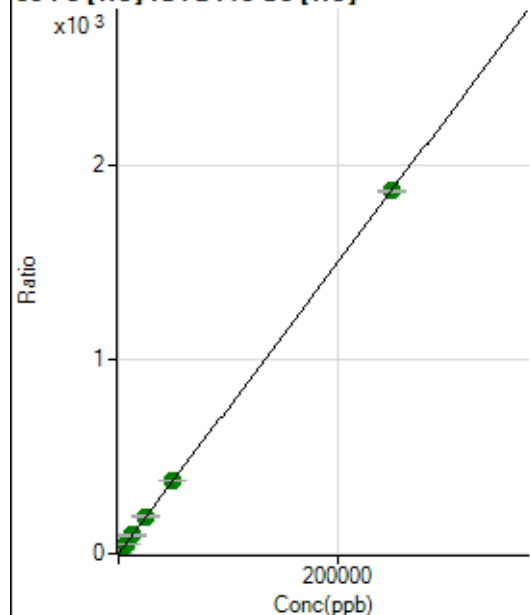
$$R = 0.9999$$

$$DL = 0.05144$$

$$BEC = 0.1507$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5594.41	0.0355	P	2.4
2	☐	50.000	50.923	65247.32	0.4157	P	0.8
3	☐	2500.000	2742.649	2983224.54	20.5136	A	8.2
4	☐	6250.000	6393.977	7144279.20	47.7764	A	0.9
5	☐	12500.000	12592.820	13872536.88	94.0604	A	1.0
6	☐	25000.000	25564.217	27132204.04	190.9120	A	2.8
7	☐	50000.000	50180.819	53613645.87	374.7131	A	0.5
8	☐	250000.00	249896.74	274630211.4	1,865.902	A	0.6

$$y = 0.0075 * x + 0.0355$$

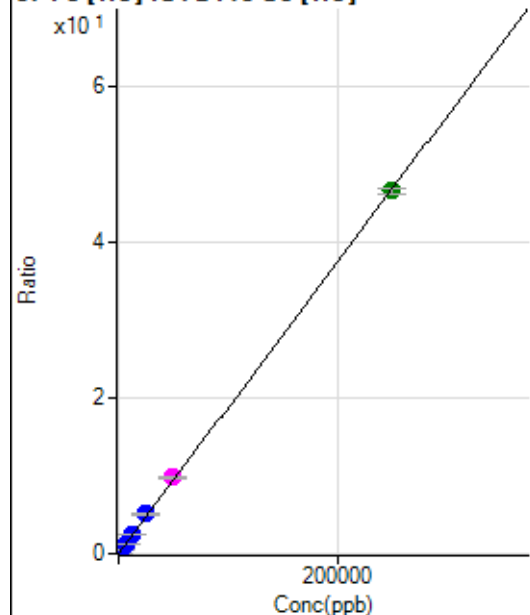
$$R = 1.0000$$

$$DL = 0.3371$$

$$BEC = 4.751$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	230.00	0.0015	P	2.8
2	☐	50.000	52.661	1775.68	0.0113	P	5.2
3	☐	2500.000	2922.406	79729.79	0.5484	P	8.7
4	☐	6250.000	6861.845	192250.49	1.2857	P	0.6
5	☐	12500.000	13520.478	373407.41	2.5318	P	0.8
6	☐	25000.000	27152.230	722292.24	5.0830	P	3.5
7	☐	50000.000	52271.017	1399919.93	9.7840	M	3.2
8	☐	250000.00	249260.02	6865742.19	46.6506	A	1.4

$$y = 1.8715\text{E-}004 * x + 0.0015$$

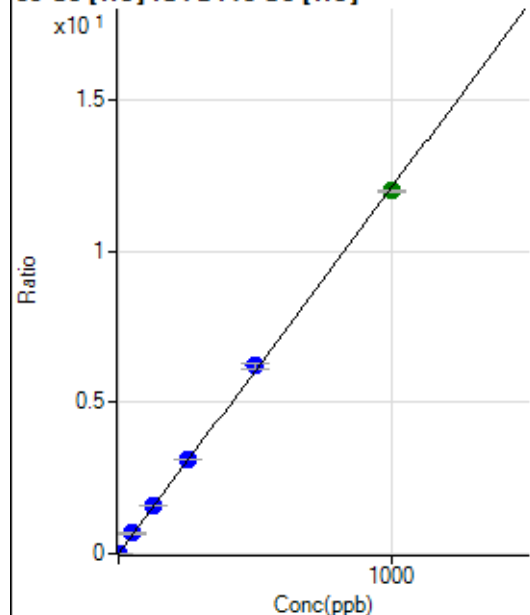
$$R = 0.9999$$

$$DL = 0.6491$$

$$BEC = 7.792$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.89	0.0004	P	18.3
2	☐	1.000	1.009	1974.60	0.0126	P	6.7
3	☐	50.000	55.986	98505.93	0.6777	P	9.2
4	☐	125.000	130.374	235931.15	1.5778	P	0.5
5	☐	250.000	255.918	456724.87	3.0967	P	0.9
6	☐	500.000	512.463	881064.74	6.2007	P	3.7
7	☐	1000.000	991.318	1716174.45	11.9944	A	0.8
8	☐			5484.38	0.0373	P	1.3

$$y = 0.0121 * x + 3.7343\text{E-}004$$

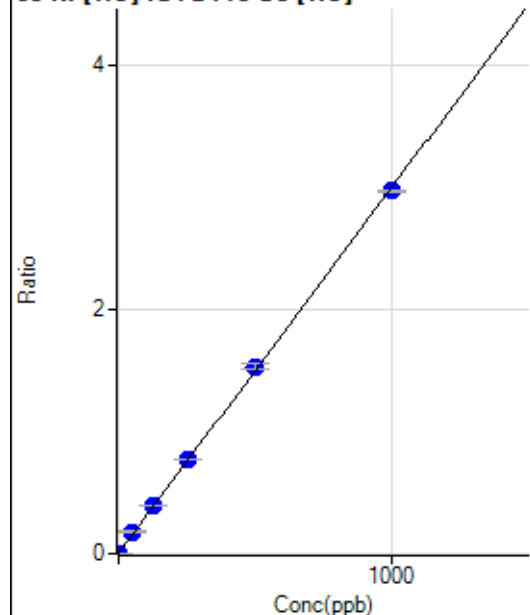
$$R = 0.9999$$

$$DL = 0.01694$$

$$BEC = 0.03086$$

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	632.24	0.0040	P	4.5
2	☐	1.000	1.018	1106.72	0.0071	P	7.9
3	☐	50.000	57.364	25498.42	0.1754	P	9.3
4	☐	125.000	131.189	59228.49	0.3961	P	0.9
5	☐	250.000	257.691	114175.68	0.7741	P	0.9
6	☐	500.000	510.788	217496.19	1.5306	P	3.4
7	☐	1000.000	991.541	424568.02	2.9673	P	0.2
8	☐			4097.26	0.0278	P	3.0

$$y = 0.0030 * x + 0.0040$$

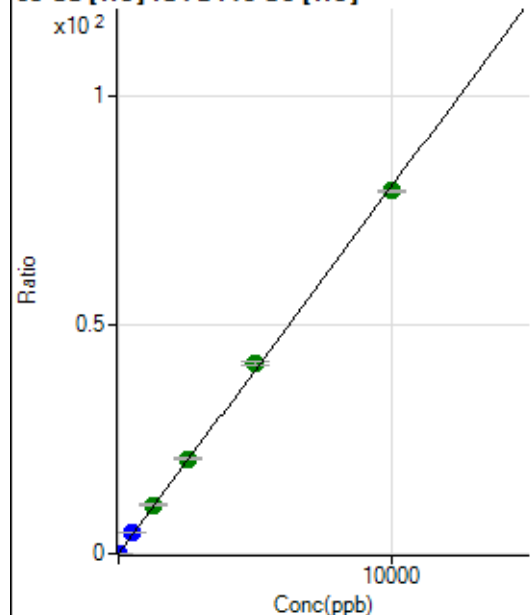
$$R = 0.9999$$

$$DL = 0.1798$$

$$BEC = 1.341$$

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	1063.55	0.0067	P	5.4
2	☐	2.000	1.997	3568.87	0.0227	P	2.1
3	☐	500.000	575.128	670757.09	4.6140	P	8.8
4	☐	1250.000	1327.708	1591492.60	10.6427	A	1.3
5	☐	2500.000	2591.682	3062981.24	20.7682	A	1.1
6	☐	5000.000	5164.994	5882120.59	41.3825	A	2.1
7	☐	10000.000	9881.113	11326739.65	79.1624	A	0.7
8	☐			5248.81	0.0357	P	1.5

$$y = 0.0080 * x + 0.0067$$

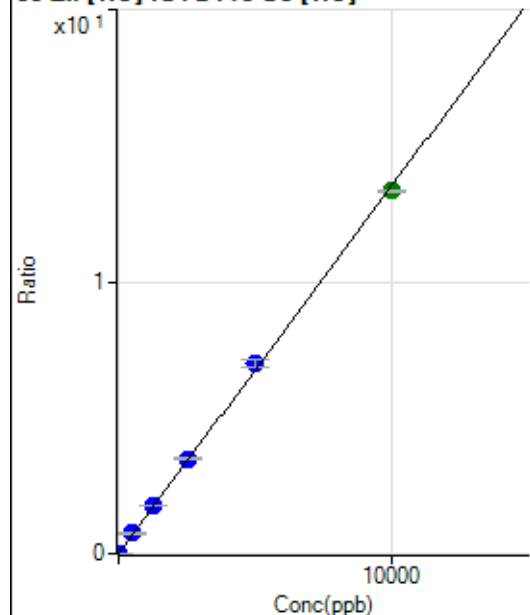
$$R = 0.9997$$

$$DL = 0.1376$$

$$BEC = 0.8417$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.34	0.0010	P	26.2
2	☐	5.000	5.895	1403.41	0.0089	P	6.3
3	☐	500.000	566.979	111527.85	0.7675	P	9.7
4	☐	1250.000	1314.938	265995.18	1.7788	P	0.1
5	☐	2500.000	2589.020	516422.80	3.5014	P	0.4
6	☐	5000.000	5184.135	996193.70	7.0101	P	3.2
7	☐	10000.000	9874.211	1910291.27	13.3512	A	0.6
8	☐			1055.60	0.0072	P	5.7

$$y = 0.0014 * x + 9.7237E-004$$

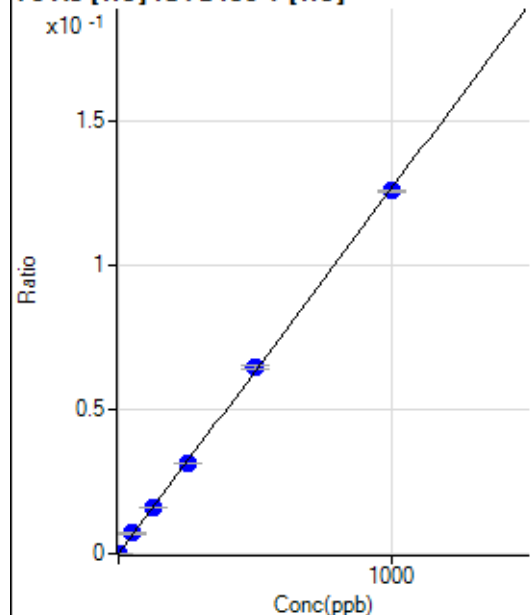
$$R = 0.9997$$

$$DL = 0.5645$$

$$BEC = 0.7192$$

Weight: <None>

Min Conc: 0

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

	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	0.946	138.89	0.0001	P	6.1
3	☐	50.000	55.587	7453.06	0.0071	P	10.7
4	☐	125.000	128.569	17864.16	0.0163	P	0.6
5	☐	250.000	248.512	34245.04	0.0315	P	1.2
6	☐	500.000	512.519	68023.79	0.0650	P	1.9
7	☐	1000.000	993.387	133708.86	0.1260	P	0.3
8	☐			114.44	0.0001	P	32.6

$$y = 1.2686E-004 * x + 1.9324E-006$$

$$R = 0.9999$$

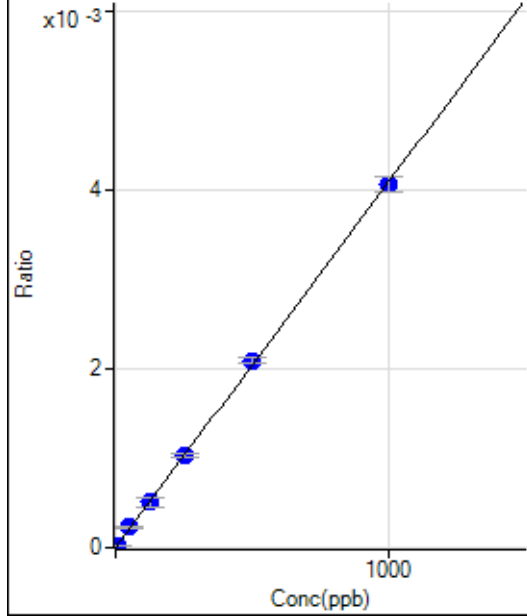
$$DL = 0.03958$$

$$BEC = 0.01523$$

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	4.531	21.11	0.0000	P	8.8
3	☐	50.000	55.889	241.12	0.0002	P	14.1
4	☐	125.000	123.710	554.46	0.0005	P	17.7
5	☐	250.000	254.014	1128.95	0.0010	P	3.3
6	☐	500.000	512.318	2194.63	0.0021	P	2.5
7	☐	1000.000	992.707	4309.56	0.0041	P	4.3
8	☐			7.78	0.0000	P	99.7

$$y = 4.0918\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

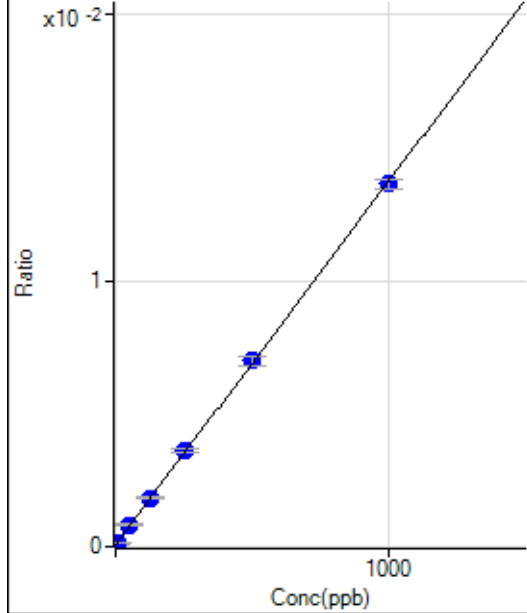
$$DL = 0$$

$$BEC = 0$$

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	82.22	0.0001	P	26.8
2	☐	5.000	6.196	177.78	0.0002	P	4.9
3	☐	50.000	54.307	857.81	0.0008	P	12.4
4	☐	125.000	128.230	1994.60	0.0018	P	2.5
5	☐	250.000	261.164	3948.34	0.0036	P	3.6
6	☐	500.000	505.876	7292.96	0.0070	P	4.8
7	☐	1000.000	993.646	14460.46	0.0136	P	2.7
8	☐			97.78	0.0001	P	17.2

$$y = 1.3645\text{E-}005 * x + 7.1573\text{E-}005$$

$$R = 0.9999$$

$$DL = 4.224$$

$$BEC = 5.245$$

Weight: <None>

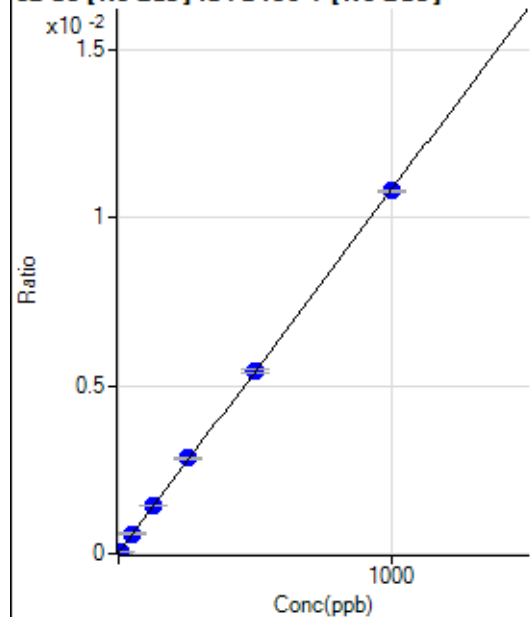
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16650.60		P	1.5
2	☐			16116.69		P	2.0
3	☐			16193.44		P	3.5
4	☐			15667.32		P	0.6
5	☐			14928.75		P	1.5
6	☐			15002.16		P	2.0
7	☐			15095.59		P	0.7
8	☐			16168.96		P	1.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.34		P	24.7
2	☐			20.00		P	16.7
3	☐			25.55		P	15.1
4	☐			23.34		P	24.7
5	☐			36.67		P	36.4
6	☐			30.00		P	29.4
7	☐			43.33		P	15.4
8	☐			35.55		P	37.9

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	131.65	0.0000	P	8.0
2	☐	5.000	4.809	372.35	0.0001	P	3.5
3	☐	50.000	52.551	2761.71	0.0006	P	1.9
4	☐	125.000	129.621	6471.21	0.0014	P	0.7
5	☐	250.000	259.582	12699.52	0.0028	P	1.7
6	☐	500.000	500.834	24351.40	0.0054	P	2.5
7	☐	1000.000	996.483	48450.30	0.0108	P	0.5
8	☐			224.90	0.0001	P	8.7

$$y = 1.0811\text{E-}005 * x + 2.8263\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.6266$$

$$BEC = 2.614$$

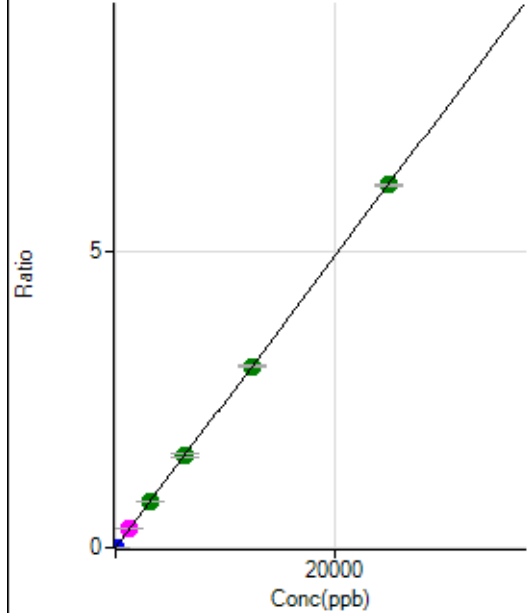
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			36.67		P	24.1
2	☐			40.00		P	30.0
3	☐			45.56		P	21.1
4	☐			50.00		P	24.0
5	☐			38.89		P	17.8
6	☐			60.00		P	5.5
7	☐			75.56		P	33.1
8	☐			50.00		P	24.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0000	P	31.2
2	☐	1.000	0.994	1227.84	0.0003	P	6.0
3	☐	1250.000	1295.034	1470700.72	0.3176	M	0.9
4	☐	3125.000	3213.684	3566812.24	0.7881	A	1.8
5	☐	6250.000	6359.542	6985478.92	1.5596	A	3.1
6	☐	12500.000	12480.306	13694366.19	3.0606	A	1.4
7	☐	25000.000	24969.124	27466310.98	6.1232	A	0.3
8	☐			5880.13	0.0014	P	14.2

$$y = 2.4523\text{E-}004 * x + 2.0958\text{E-}005$$

$$R = 1.0000$$

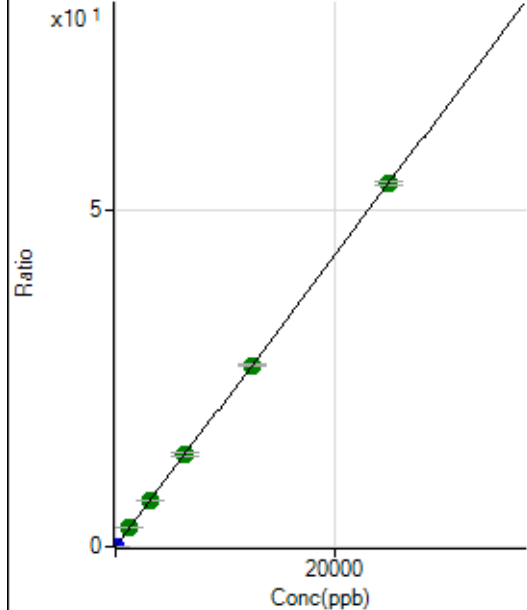
$$DL = 0.07994$$

$$BEC = 0.08546$$

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	198.89	0.0000	P	6.9
2	☐	1.000	1.004	10258.10	0.0022	P	1.0
3	☐	1250.000	1277.735	12776024.25	2.7590	A	1.0
4	☐	3125.000	3187.908	31153248.98	6.8836	A	1.7
5	☐	6250.000	6344.787	61369404.64	13.7001	A	2.5
6	☐	12500.000	12484.632	120617845.9	26.9576	A	1.7
7	☐	25000.000	24974.737	241899129.7	53.9270	A	1.1
8	☐			52055.60	0.0122	P	14.8

$$y = 0.0022 * x + 4.2727\text{E-}005$$

$$R = 1.0000$$

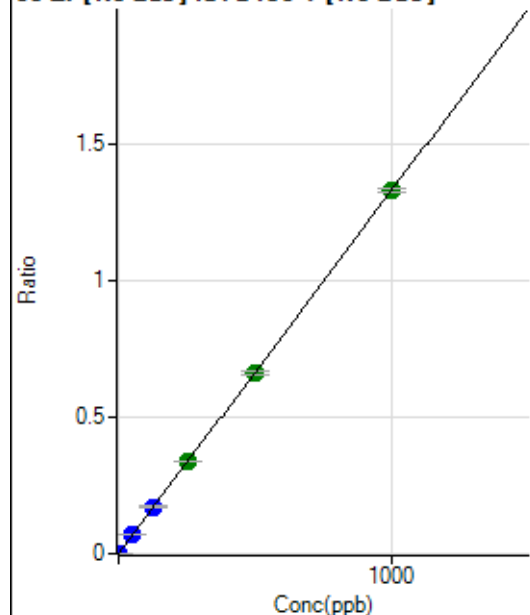
$$DL = 0.004096$$

$$BEC = 0.01979$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	210.00	0.0000	P	8.1
2	☐	1.000	0.941	6022.40	0.0013	P	1.5
3	☐	50.000	51.548	317975.93	0.0687	P	0.9
4	☐	125.000	128.684	775423.25	0.1714	P	2.4
5	☐	250.000	253.689	1513188.69	0.3378	A	1.7
6	☐	500.000	498.719	2970895.72	0.6640	A	1.5
7	☐	1000.000	999.180	5966824.63	1.3302	A	0.9
8	☐			3507.12	0.0008	P	5.9

$$y = 0.0013 * x + 4.5107E-005$$

$$R = 1.0000$$

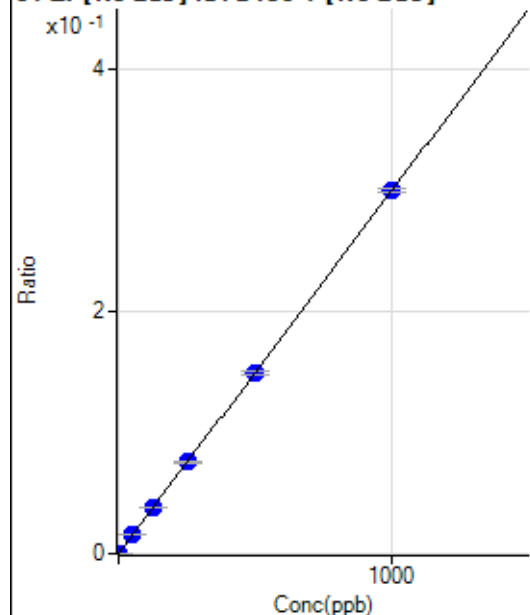
$$DL = 0.008269$$

$$BEC = 0.03388$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.66	0.0000	P	24.3
2	☐	1.000	0.920	1324.52	0.0003	P	4.1
3	☐	50.000	51.358	71259.49	0.0154	P	0.8
4	☐	125.000	126.906	172012.36	0.0380	P	2.2
5	☐	250.000	252.913	339275.34	0.0757	P	2.7
6	☐	500.000	497.296	666307.80	0.1489	P	1.9
7	☐	1000.000	1000.318	1343653.57	0.2995	P	0.9
8	☐			802.25	0.0002	P	14.5

$$y = 2.9944E-004 * x + 1.0013E-005$$

$$R = 1.0000$$

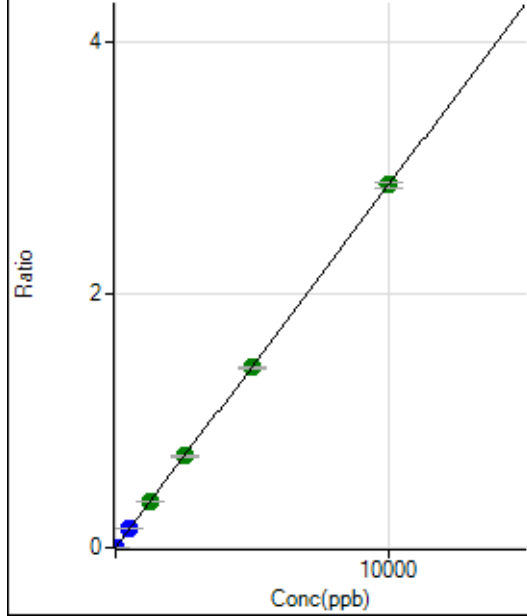
$$DL = 0.02438$$

$$BEC = 0.03344$$

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	142.23	0.0000	P	20.0
2	☐	5.000	5.174	7016.18	0.0015	P	0.3
3	☐	500.000	520.506	690289.94	0.1491	P	0.3
4	☐	1250.000	1272.602	1649049.45	0.3644	A	2.7
5	☐	2500.000	2526.022	3239818.84	0.7233	A	3.2
6	☐	5000.000	4966.773	6363617.48	1.4222	A	1.4
7	☐	10000.000	10006.258	12852298.70	2.8652	A	1.7
8	☐			6176.91	0.0014	P	5.9

$$y = 2.8633\text{E-}004 * x + 3.0562\text{E-}005$$

$$R = 1.0000$$

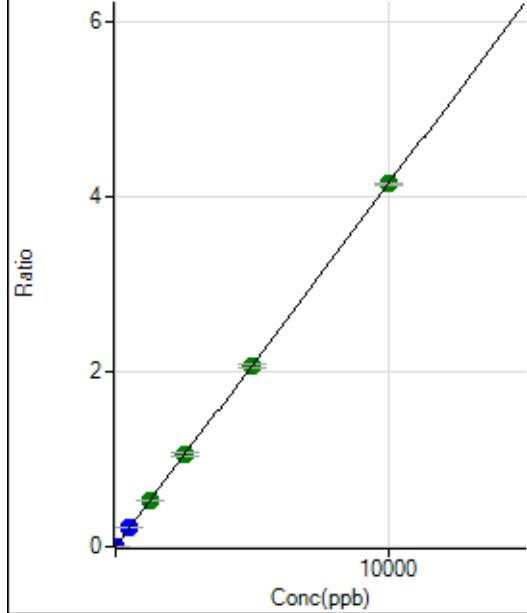
$$DL = 0.06398$$

$$BEC = 0.1067$$

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	247.78	0.0001	P	17.5
2	☐	5.000	4.480	8856.09	0.0019	P	1.3
3	☐	500.000	521.756	1000999.53	0.2162	P	0.4
4	☐	1250.000	1277.386	2394442.40	0.5292	A	2.8
5	☐	2500.000	2545.722	4723778.26	1.0545	A	2.3
6	☐	5000.000	4973.229	9217276.95	2.0600	A	1.5
7	☐	10000.000	9997.444	18575354.72	4.1410	A	0.7
8	☐			8639.30	0.0020	P	7.8

$$y = 4.1421\text{E-}004 * x + 5.3175\text{E-}005$$

$$R = 1.0000$$

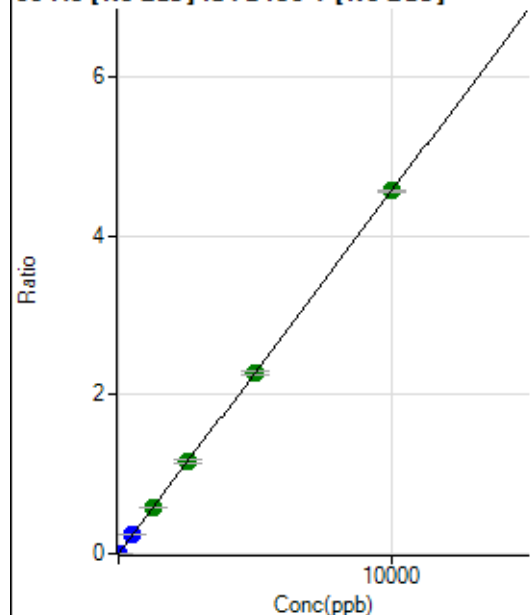
$$DL = 0.06723$$

$$BEC = 0.1284$$

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	68.89	0.0000	P	19.6
2	☐	5.000	4.495	9578.79	0.0021	P	1.6
3	☐	500.000	521.438	1101081.36	0.2378	P	0.6
4	☐	1250.000	1265.402	2611132.72	0.5770	A	2.4
5	☐	2500.000	2541.060	5189917.39	1.1587	A	3.1
6	☐	5000.000	4966.512	10132538.81	2.2646	A	2.0
7	☐	10000.000	10003.482	20460883.86	4.5614	A	0.6
8	☐			10697.35	0.0025	P	8.2

$$y = 4.5598\text{E-}004 * x + 1.4784\text{E-}005$$

$$R = 1.0000$$

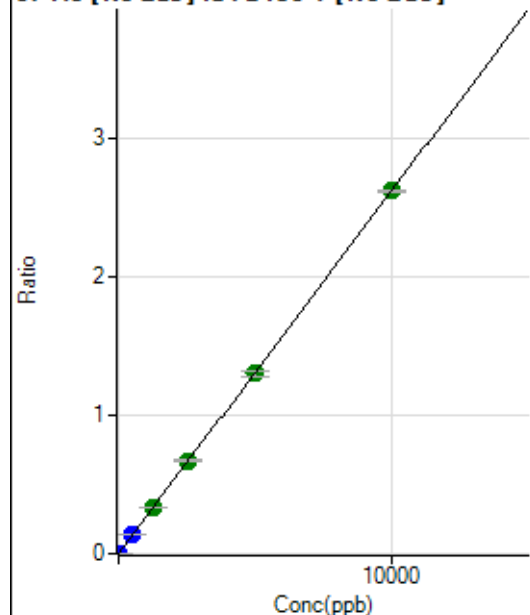
$$DL = 0.01905$$

$$BEC = 0.03242$$

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	55.55	0.0000	P	46.5
2	☐	5.000	4.343	5329.92	0.0011	P	3.7
3	☐	500.000	520.574	630946.52	0.1363	P	0.5
4	☐	1250.000	1279.036	1514933.01	0.3348	A	2.5
5	☐	2500.000	2544.963	2983816.41	0.6661	A	2.1
6	☐	5000.000	4964.152	5812506.65	1.2992	A	3.0
7	☐	10000.000	10002.025	11742019.96	2.6177	A	0.6
8	☐			5315.47	0.0012	P	11.7

$$y = 2.6171\text{E-}004 * x + 1.1960\text{E-}005$$

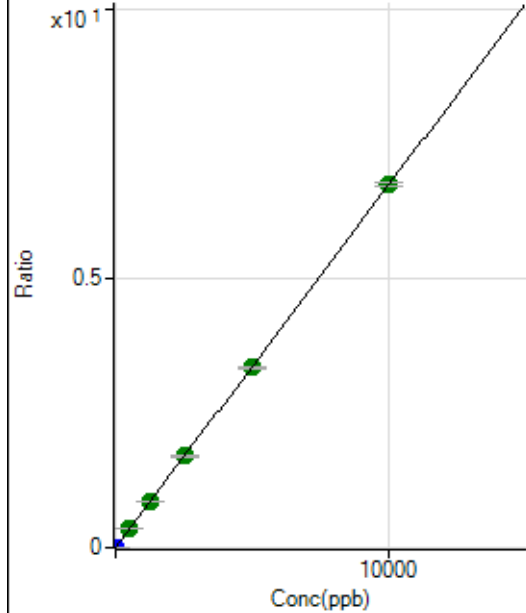
$$R = 1.0000$$

$$DL = 0.06374$$

$$BEC = 0.0457$$

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	55.55	0.0000	P	19.1
2	☐	5.000	4.404	13829.97	0.0030	P	2.1
3	☐	500.000	509.029	1589207.29	0.3432	A	1.0
4	☐	1250.000	1269.794	3873734.80	0.8561	A	3.0
5	☐	2500.000	2525.576	7627419.19	1.7027	A	2.4
6	☐	5000.000	4962.084	14968229.50	3.3454	A	2.0
7	☐	10000.000	10009.639	30271082.60	6.7484	A	1.0
8	☐			13516.41	0.0032	P	7.6

$$y = 6.7419\text{E-}004 * x + 1.1928\text{E-}005$$

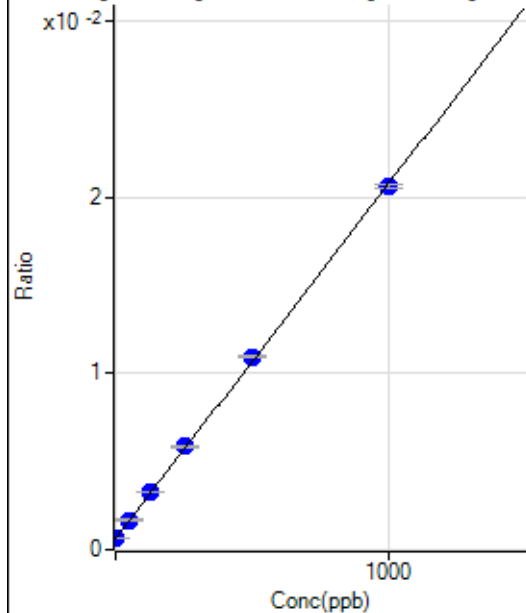
$$R = 1.0000$$

$$DL = 0.01016$$

$$BEC = 0.01769$$

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	3378.21	0.0006	P	1.9
2	☐	1.000	-0.003	3363.76	0.0006	P	4.8
3	☐	50.000	51.987	8854.99	0.0017	P	3.1
4	☐	125.000	129.509	16826.49	0.0033	P	1.4
5	☐	250.000	258.368	30720.31	0.0058	P	1.5
6	☐	500.000	512.130	56028.51	0.0110	P	0.8
7	☐	1000.000	991.181	106827.72	0.0206	P	0.9
8	☐			2995.90	0.0006	P	6.1

$$y = 2.0134\text{E-}005 * x + 6.4285\text{E-}004$$

$$R = 0.9998$$

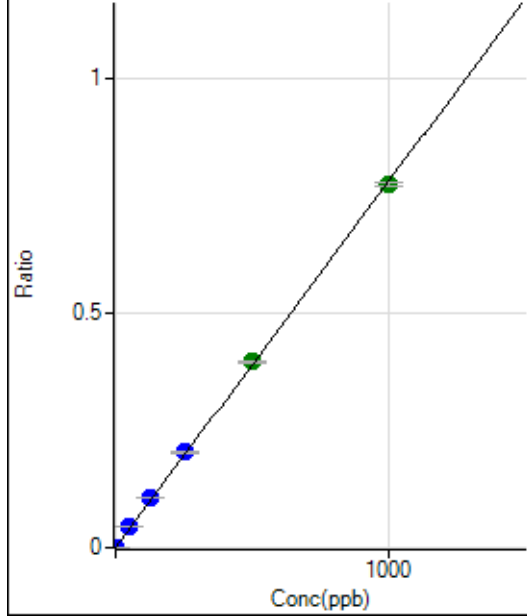
$$DL = 1.774$$

$$BEC = 31.93$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	18.5
2	☐	1.000	1.014	4180.64	0.0008	P	2.3
3	☐	50.000	55.656	227426.72	0.0434	P	0.8
4	☐	125.000	135.487	546829.84	0.1056	P	1.5
5	☐	250.000	261.152	1070094.96	0.2036	P	1.8
6	☐	500.000	508.917	2029461.24	0.3968	A	1.0
7	☐	1000.000	991.160	4007185.63	0.7727	A	1.0
8	☐			882.26	0.0002	P	11.5

$$y = 7.7960\text{E-}004 * x + 8.4549\text{E-}006$$

$$R = 0.9998$$

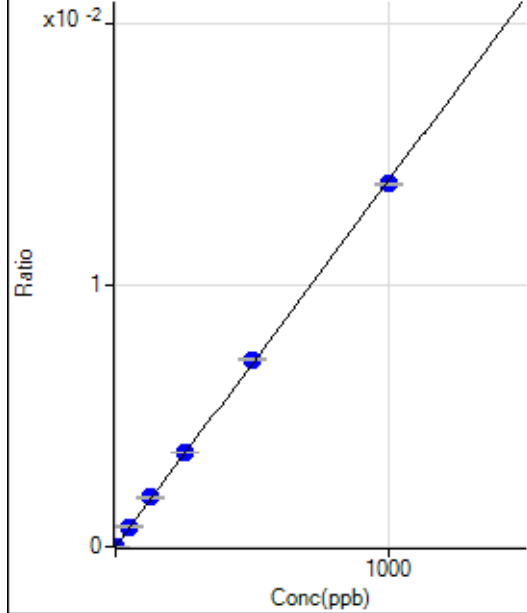
$$DL = 0.006035$$

$$BEC = 0.01085$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	0.7
2	☐	1.000	1.167	88.89	0.0000	P	36.3
3	☐	50.000	54.801	4023.94	0.0008	P	3.3
4	☐	125.000	134.289	9735.57	0.0019	P	1.4
5	☐	250.000	257.531	18953.57	0.0036	P	1.2
6	☐	500.000	511.041	36597.20	0.0072	P	1.2
7	☐	1000.000	991.195	71963.87	0.0139	P	0.8
8	☐			132.22	0.0000	P	26.8

$$y = 1.4000\text{E-}005 * x + 6.3371\text{E-}007$$

$$R = 0.9999$$

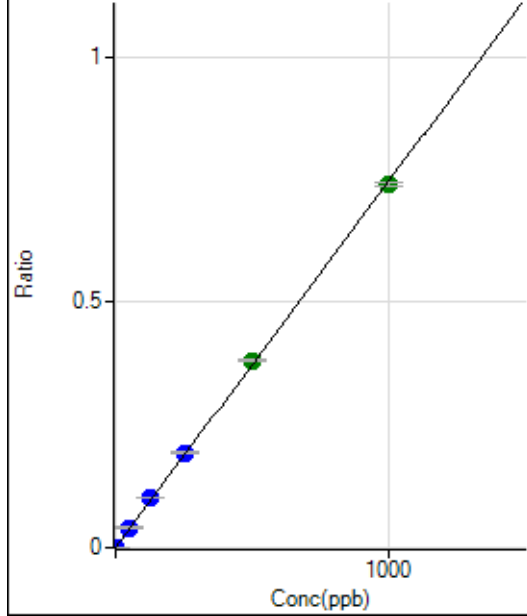
$$DL = 0.0009983$$

$$BEC = 0.04527$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	56.6
2	☐	1.000	1.002	3923.90	0.0007	P	1.8
3	☐	50.000	55.098	215450.61	0.0411	P	0.5
4	☐	125.000	134.891	521032.22	0.1006	P	1.2
5	☐	250.000	259.488	1017593.61	0.1936	P	1.8
6	☐	500.000	510.342	1947588.11	0.3808	A	1.1
7	☐	1000.000	990.966	3834328.83	0.7394	A	1.0
8	☐			817.81	0.0002	P	21.6

$$y = 7.4613\text{E-}004 * x + 2.3259\text{E-}006$$

$$R = 0.9998$$

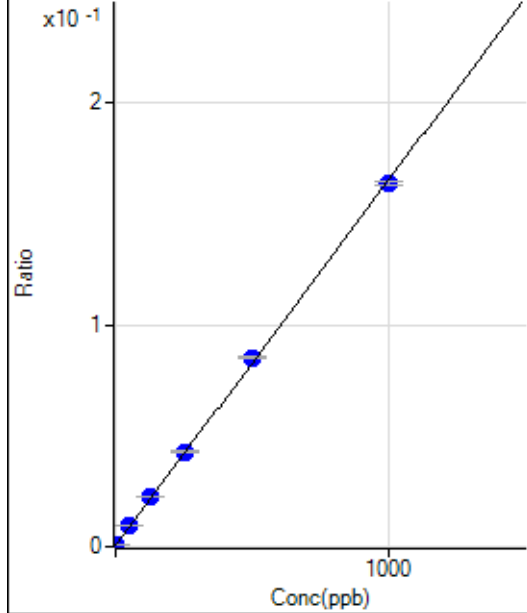
$$DL = 0.00529$$

$$BEC = 0.003117$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2369.08	0.0005	P	2.0
2	☐	1.000	1.006	3225.78	0.0006	P	4.6
3	☐	50.000	53.739	48705.73	0.0093	P	1.3
4	☐	125.000	132.675	115354.68	0.0223	P	1.6
5	☐	250.000	257.349	224945.78	0.0428	P	1.9
6	☐	500.000	513.523	434540.42	0.0850	P	0.9
7	☐	1000.000	990.255	847419.77	0.1634	P	0.9
8	☐			2292.35	0.0005	P	4.5

$$y = 1.6456\text{E-}004 * x + 4.5082\text{E-}004$$

$$R = 0.9998$$

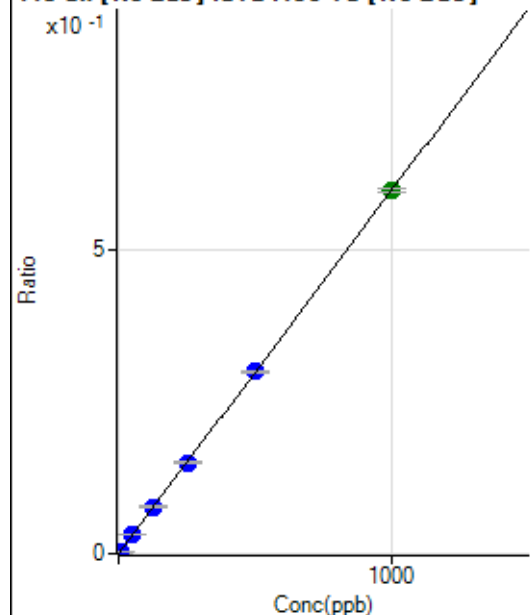
$$DL = 0.1609$$

$$BEC = 2.74$$

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	586.69	0.0001	P	5.1
2	☐	5.000	5.089	16514.01	0.0032	P	1.5
3	☐	50.000	52.637	165542.70	0.0316	P	0.3
4	☐	125.000	128.746	399132.58	0.0771	P	1.6
5	☐	250.000	250.501	787912.69	0.1499	P	1.7
6	☐	500.000	500.352	1530997.55	0.2993	P	1.0
7	☐	1000.000	999.098	3099056.76	0.5976	A	1.2
8	☐			2835.86	0.0006	P	2.5

$$y = 5.9801\text{E-}004 * x + 1.1162\text{E-}004$$

$$R = 1.0000$$

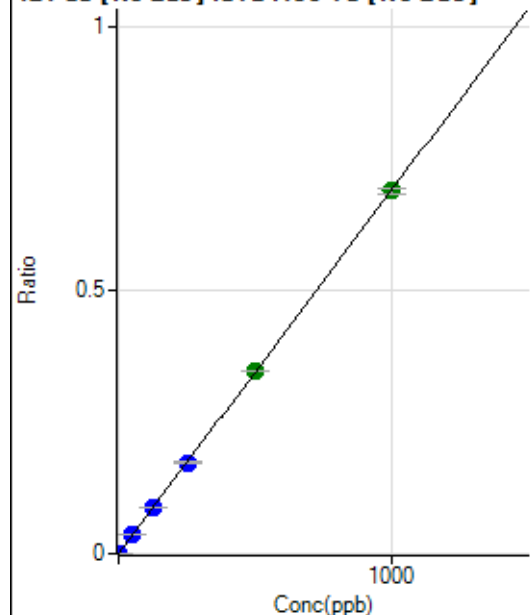
$$DL = 0.02829$$

$$BEC = 0.1866$$

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	16.67	0.0000	P	0.7
2	☐	2.000	1.947	7045.12	0.0013	P	2.8
3	☐	50.000	52.223	188744.35	0.0360	P	0.1
4	☐	125.000	128.307	458039.41	0.0885	P	1.7
5	☐	250.000	249.782	905309.50	0.1723	P	1.9
6	☐	500.000	502.424	1772251.74	0.3465	A	0.6
7	☐	1000.000	998.318	3570014.15	0.6884	A	1.4
8	☐			2681.39	0.0006	P	2.5

$$y = 6.8960\text{E-}004 * x + 3.1723\text{E-}006$$

$$R = 1.0000$$

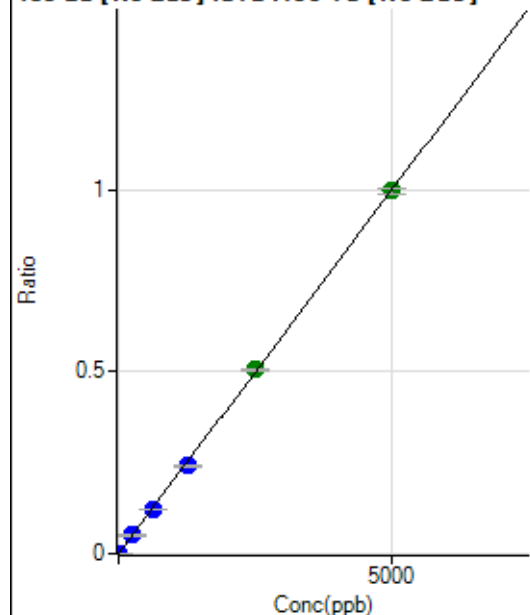
$$DL = 0.0001015$$

$$BEC = 0.0046$$

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	21.11	0.0000	P	39.4
2	☐	10.000	9.335	9774.55	0.0019	P	2.7
3	☐	250.000	251.724	263362.54	0.0503	P	0.3
4	☐	625.000	615.767	636350.96	0.1229	P	1.4
5	☐	1250.000	1212.068	1271687.21	0.2420	P	2.1
6	☐	2500.000	2532.865	2586055.01	0.5056	A	1.4
7	☐	5000.000	4994.120	5170177.73	0.9970	A	1.8
8	☐			1939.05	0.0004	P	11.7

$$y = 1.9963E-004 * x + 4.0145E-006$$

$$R = 0.9999$$

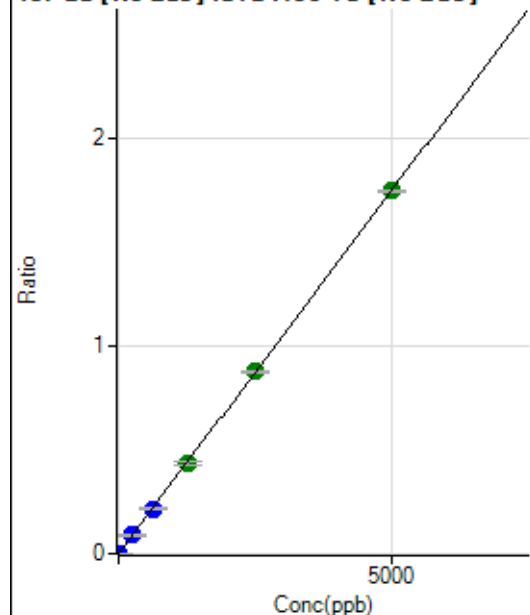
$$DL = 0.02374$$

$$BEC = 0.02011$$

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	21.11	0.0000	P	74.4
2	☐	10.000	9.389	17219.39	0.0033	P	1.6
3	☐	250.000	252.242	462654.55	0.0883	P	0.8
4	☐	625.000	621.361	1125734.70	0.2175	P	2.0
5	☐	1250.000	1243.028	2286310.94	0.4350	A	3.0
6	☐	2500.000	2506.727	4487285.84	0.8773	A	1.3
7	☐	5000.000	4998.724	9072721.60	1.7495	A	0.7
8	☐			3342.65	0.0007	P	6.5

$$y = 3.4998E-004 * x + 4.0026E-006$$

$$R = 1.0000$$

$$DL = 0.02553$$

$$BEC = 0.01144$$

Weight: <None>

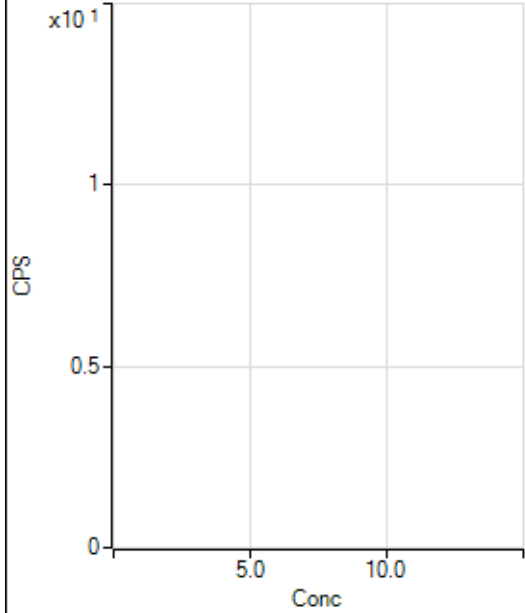
Min Conc: 0

150 Nd [No Gas] No available calibration points

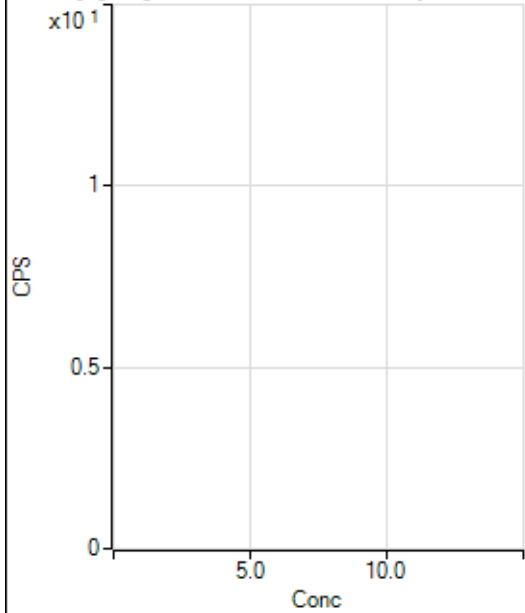
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	173.
3	☐			68.89		P	12.2
4	☐			200.00		P	7.3
5	☐			327.79		P	5.6
6	☐			700.03		P	15.5
7	☐			1524.54		P	6.1
8	☐			84.45		P	31.7

150 Nd [He] No available calibration points

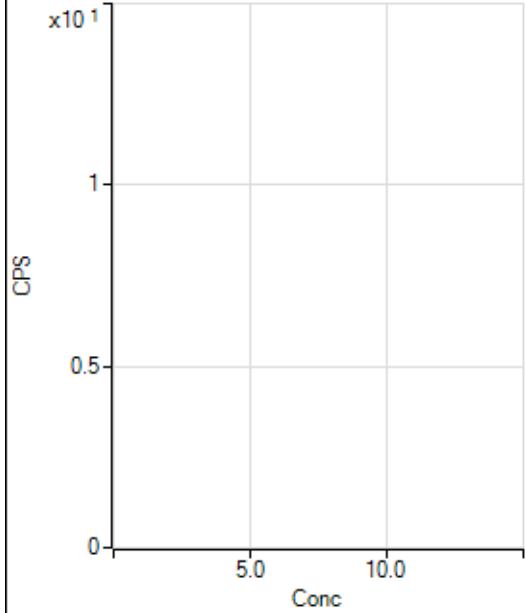
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	173.
3	☐			14.44		P	70.5
4	☐			47.78		P	20.1
5	☐			43.33		P	20.3
6	☐			133.33		P	4.3
7	☐			286.67		P	8.1
8	☐			45.56		P	33.0

156 Dy [No Gas] No available calibration points

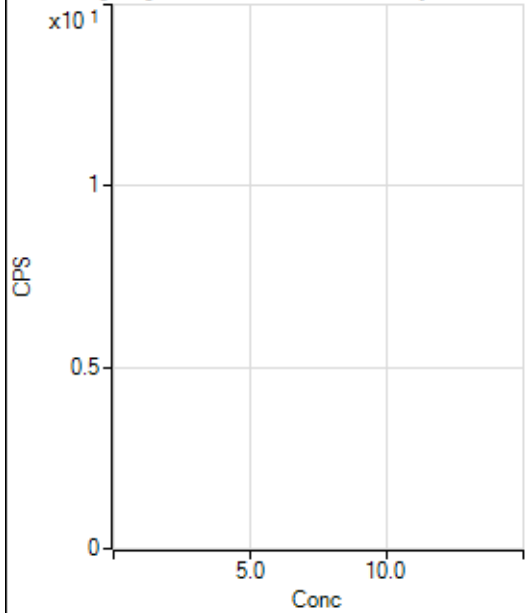
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			6.67		P	100.
3	☐			17.78		P	28.6
4	☐			25.56		P	45.8
5	☐			55.56		P	40.0
6	☐			145.56		P	11.3
7	☐			284.45		P	9.5
8	☐			212.23		P	5.9

156 Dy [He] No available calibration points

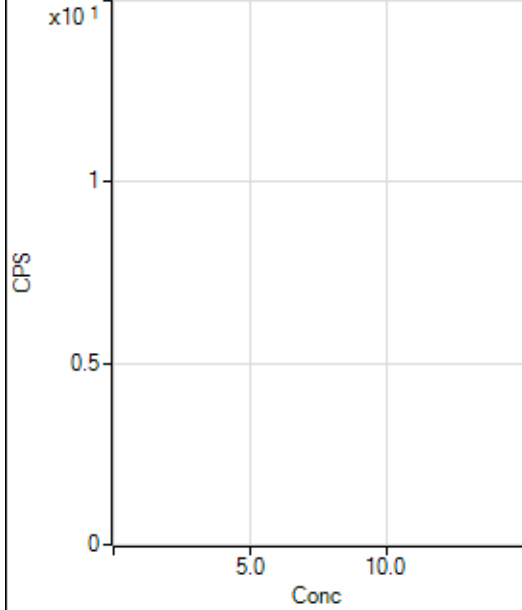
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			4.44		P	114.
3	☐			16.67		P	52.9
4	☐			33.34		P	34.6
5	☐			58.89		P	14.2
6	☐			127.78		P	14.8
7	☐			274.45		P	12.4
8	☐			146.67		P	7.9

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

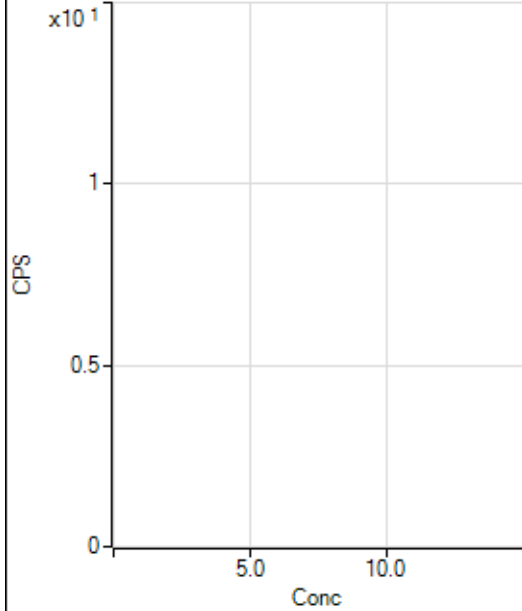
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	16.4
2	☐			31.11		P	50.6
3	☐			42.22		P	31.9
4	☐			24.45		P	43.8
5	☐			33.33		P	52.9
6	☐			57.78		P	23.3
7	☐			107.78		P	19.9
8	☐			157.78		P	30.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			176.67		P	11.8
2	☐			182.23		P	19.2
3	☐			175.56		P	14.7
4	☐			190.00		P	12.3
5	☐			193.34		P	20.3
6	☐			194.45		P	6.0
7	☐			242.23		P	6.2
8	☐			240.01		P	21.7

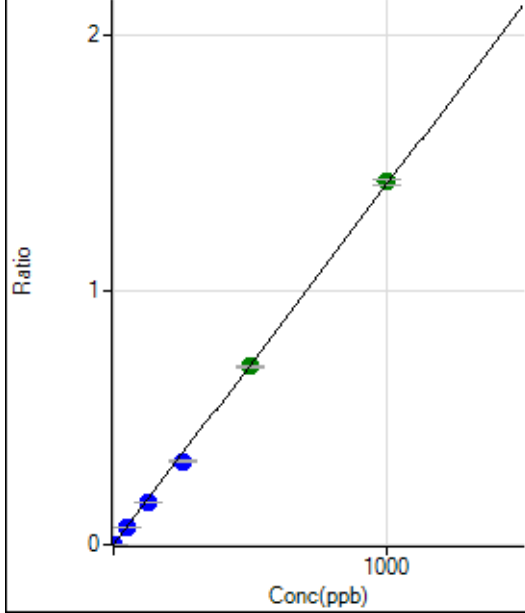
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	30.1
2	☐			38.89		P	4.9
3	☐			37.78		P	33.4
4	☐			42.22		P	12.1
5	☐			48.89		P	21.9
6	☐			64.44		P	13.0
7	☐			100.00		P	18.6
8	☐			194.45		P	12.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	36.7
2	☐			21.11		P	24.1
3	☐			24.45		P	28.4
4	☐			23.33		P	14.3
5	☐			24.44		P	7.9
6	☐			41.11		P	40.0
7	☐			67.78		P	27.1
8	☐			128.89		P	6.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0000	P	13.2
2	☐	1.000	0.875	4431.88	0.0013	P	4.1
3	☐	50.000	46.677	232235.55	0.0660	P	0.5
4	☐	125.000	115.680	564808.02	0.1636	P	0.8
5	☐	250.000	231.153	1131216.45	0.3270	P	2.2
6	☐	500.000	495.125	2355535.38	0.7003	A	0.5
7	☐	1000.000	1008.480	4731256.22	1.4264	A	1.9
8	☐			666.69	0.0002	P	32.0

$$y = 0.0014 * x + 2.0216E-005$$

$$R = 0.9998$$

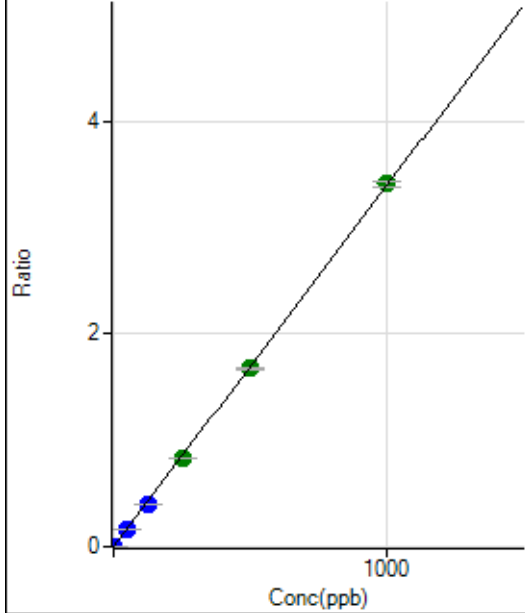
$$DL = 0.005641$$

$$BEC = 0.01429$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	157.78	0.0000	P	12.8
2	☐	1.000	0.862	10449.65	0.0030	P	1.5
3	☐	50.000	46.479	554021.93	0.1575	P	0.6
4	☐	125.000	115.473	1350729.19	0.3913	P	0.7
5	☐	250.000	245.060	2873337.70	0.8304	A	2.0
6	☐	500.000	494.040	5630929.78	1.6741	A	0.9
7	☐	1000.000	1005.582	11302896.36	3.4075	A	1.3
8	☐			1663.46	0.0006	P	26.4

$$y = 0.0034 * x + 4.4166E-005$$

$$R = 0.9999$$

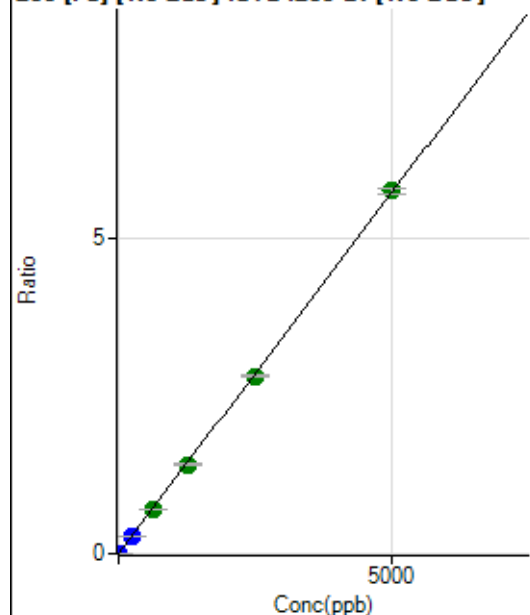
$$DL = 0.005001$$

$$BEC = 0.01303$$

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	134.45	0.0000	P	12.6
2	☐	1.000	0.868	3639.41	0.0010	P	4.1
3	☐	250.000	235.883	950903.54	0.2704	P	1.3
4	☐	625.000	611.307	2418625.24	0.7007	A	1.1
5	☐	1250.000	1231.677	4884544.41	1.4118	A	2.1
6	☐	2500.000	2458.901	9479748.40	2.8184	A	1.0
7	☐	5000.000	5027.548	19114750.55	5.7625	A	1.4
8	☐			8112.50	0.0029	P	7.0

$$y = 0.0011 * x + 3.7634E-005$$

$$R = 0.9999$$

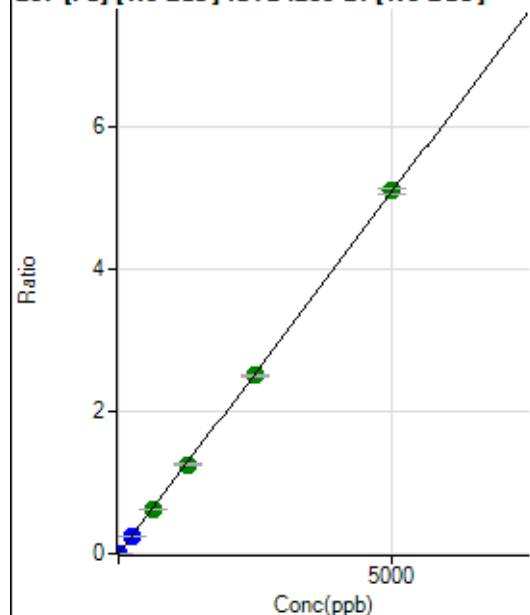
$$DL = 0.01241$$

$$BEC = 0.03283$$

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	124.44	0.0000	P	7.9
2	☐	1.000	0.886	3293.77	0.0009	P	4.5
3	☐	250.000	233.562	834256.46	0.2372	P	1.0
4	☐	625.000	615.196	2156623.84	0.6248	A	0.6
5	☐	1250.000	1232.757	4331832.23	1.2520	A	1.6
6	☐	2500.000	2470.192	8437651.68	2.5087	A	1.5
7	☐	5000.000	5021.262	16914956.69	5.0994	A	1.5
8	☐			7093.03	0.0025	P	6.0

$$y = 0.0010 * x + 3.4840E-005$$

$$R = 1.0000$$

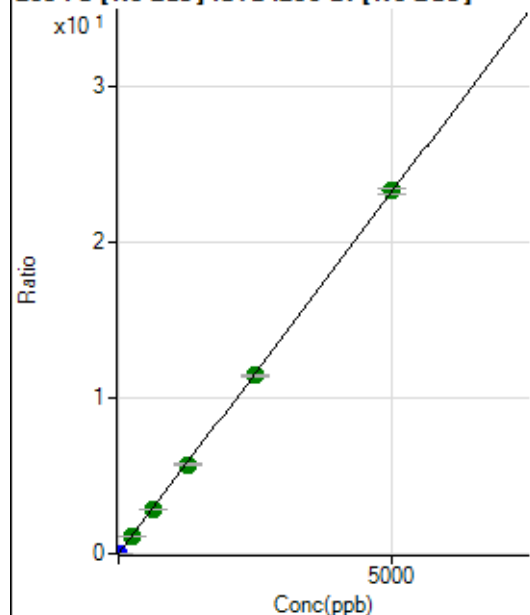
$$DL = 0.00811$$

$$BEC = 0.03431$$

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	574.45	0.0002	P	10.8
2	☐	1.000	0.878	14933.39	0.0042	P	1.2
3	☐	250.000	242.058	3952640.36	1.1240	A	0.9
4	☐	625.000	617.023	9888470.60	2.8648	A	1.1
5	☐	1250.000	1233.345	19812258.98	5.7263	A	2.1
6	☐	2500.000	2469.757	38567408.66	11.4666	A	1.4
7	☐	5000.000	5020.679	77319244.68	23.3099	A	1.7
8	☐			32877.16	0.0117	P	6.8

$$y = 0.0046 * x + 1.6082E-004$$

$$R = 1.0000$$

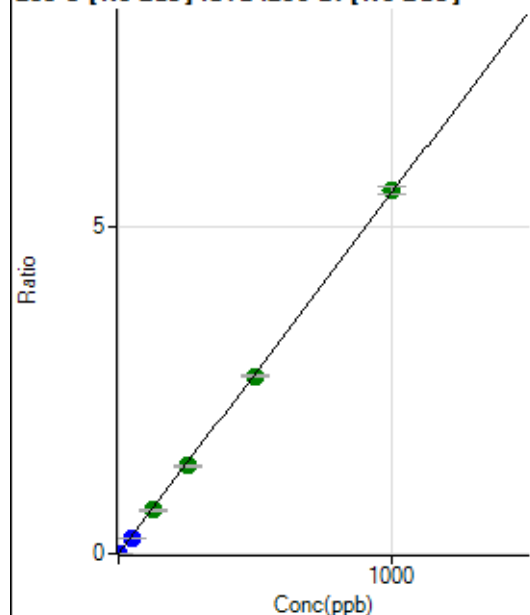
$$DL = 0.01127$$

$$BEC = 0.03464$$

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	14.44	0.0000	P	53.5
2	☐	1.000	0.803	15653.71	0.0044	P	0.4
3	☐	50.000	43.963	854889.04	0.2431	P	1.0
4	☐	125.000	120.410	2298169.53	0.6658	A	0.8
5	☐	250.000	243.007	4649219.06	1.3437	A	2.0
6	☐	500.000	493.129	9171500.07	2.7268	A	0.9
7	☐	1000.000	1006.060	18452579.31	5.5630	A	2.0
8	☐			1595.68	0.0006	P	31.5

$$y = 0.0055 * x + 4.0459E-006$$

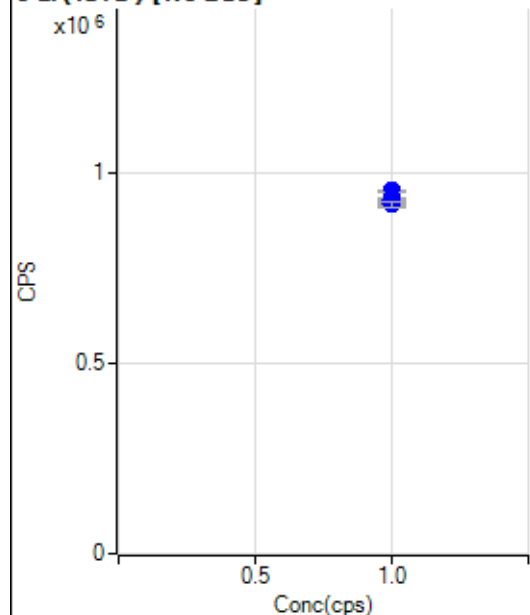
$$R = 0.9999$$

$$DL = 0.001174$$

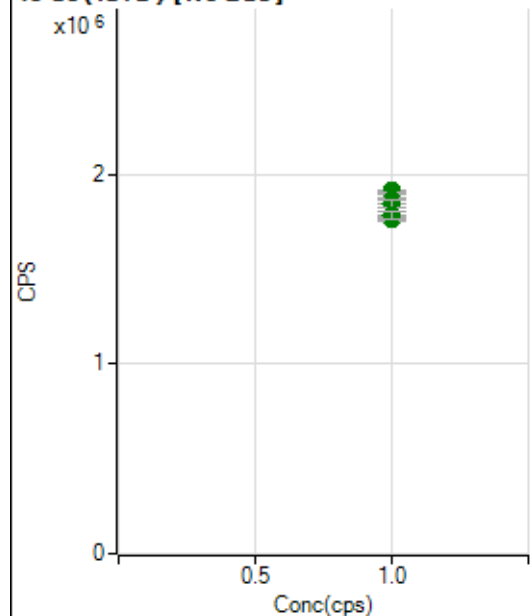
$$BEC = 0.0007317$$

Weight: <None>

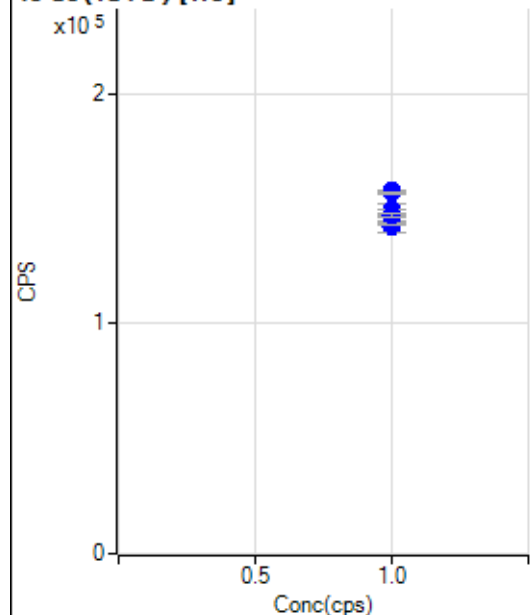
Min Conc: 0

6 Li (ISTD) [No Gas]

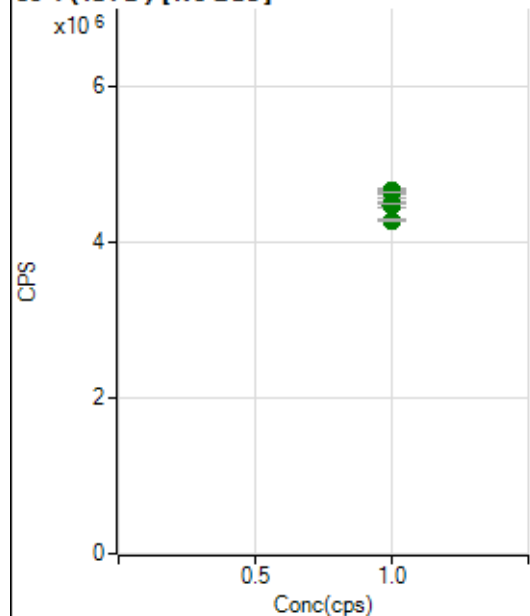
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		952784.13		P	0.1
2	☐	1.000		949339.03		P	0.2
3	☐	1.000		949632.34		P	0.1
4	☐	1.000		933477.93		P	0.6
5	☐	1.000		931043.27		P	1.0
6	☐	1.000		916634.49		P	0.4
7	☐	1.000		924501.47		P	0.5
8	☐	1.000		916933.66		P	1.5

45 Sc (ISTD) [No Gas]

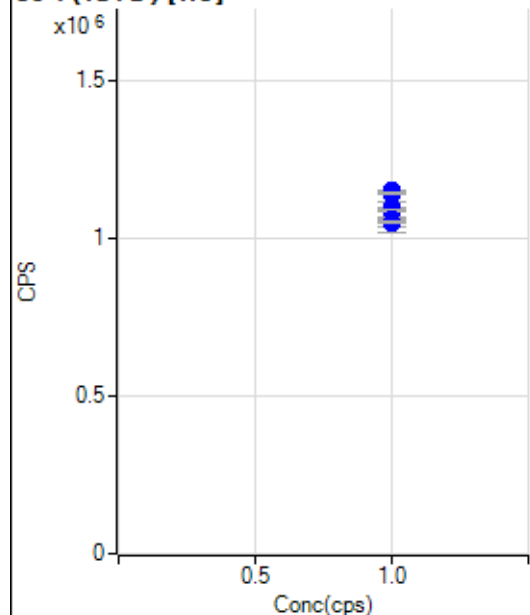
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1912640.89		A	0.6
2	☐	1.000		1907398.79		A	0.0
3	☐	1.000		1903138.55		A	0.5
4	☐	1.000		1860501.59		A	1.8
5	☐	1.000		1845461.59		A	1.9
6	☐	1.000		1781891.83		A	0.2
7	☐	1.000		1764680.79		A	0.9
8	☐	1.000		1782703.37		A	2.1

45 Sc (ISTD) [He]

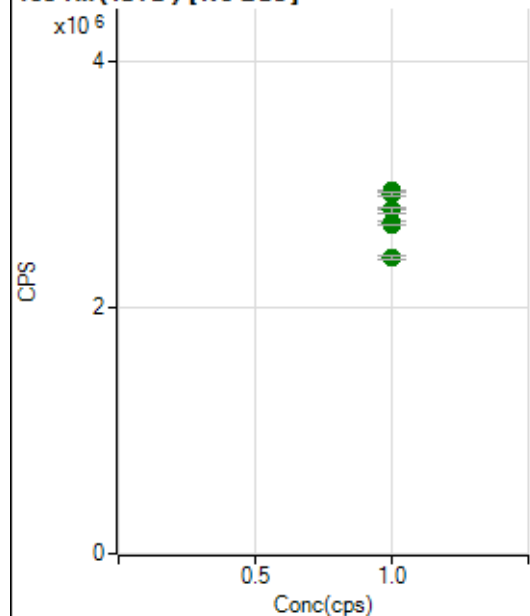
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		157722.79		P	0.1
2	☐	1.000		156961.62		P	0.4
3	☐	1.000		146114.78		P	8.6
4	☐	1.000		149535.55		P	0.2
5	☐	1.000		147492.62		P	0.8
6	☐	1.000		142205.29		P	3.2
7	☐	1.000		143080.78		P	0.4
8	☐	1.000		147189.53		P	1.3

89 Y (ISTD) [No Gas]

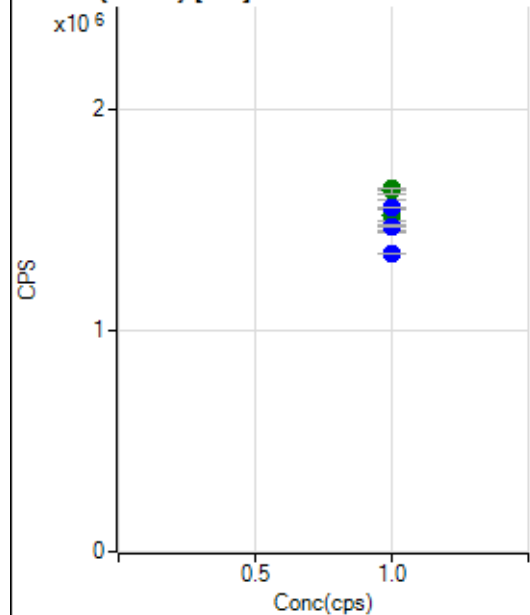
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4656247.81		A	1.0
2	☐	1.000		4639723.02		A	0.6
3	☐	1.000		4630675.42		A	0.1
4	☐	1.000		4526750.14		A	2.1
5	☐	1.000		4480941.53		A	2.0
6	☐	1.000		4474980.42		A	1.2
7	☐	1.000		4485620.18		A	0.2
8	☐	1.000		4277019.87		A	0.7

89 Y(ISTD) [He]

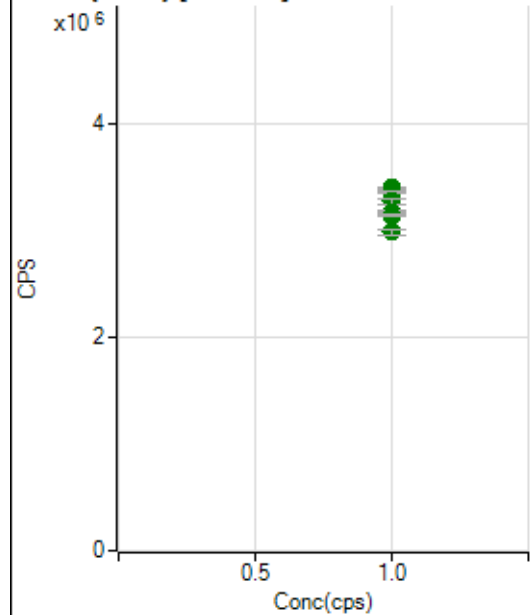
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1148446.11		P	0.2
2	☐	1.000		1138558.41		P	0.5
3	☐	1.000		1063561.29		P	9.3
4	☐	1.000		1095134.98		P	0.2
5	☐	1.000		1086165.44		P	0.3
6	☐	1.000		1046560.79		P	2.8
7	☐	1.000		1060982.32		P	0.3
8	☐	1.000		1049409.55		P	0.7

103 Rh(ISTD) [No Gas]

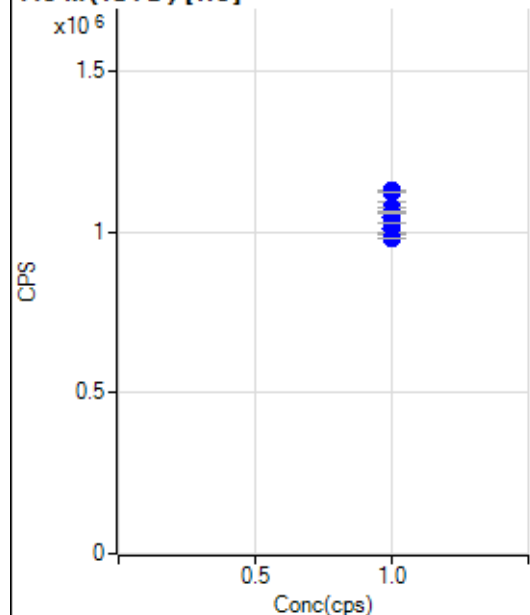
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2951735.69		A	0.7
2	☐	1.000		2947384.54		A	0.8
3	☐	1.000		2927699.02		A	0.8
4	☐	1.000		2807644.44		A	0.4
5	☐	1.000		2793824.85		A	2.0
6	☐	1.000		2690958.50		A	0.7
7	☐	1.000		2673548.08		A	0.4
8	☐	1.000		2409794.01		A	1.7

103 Rh (ISTD) [He]

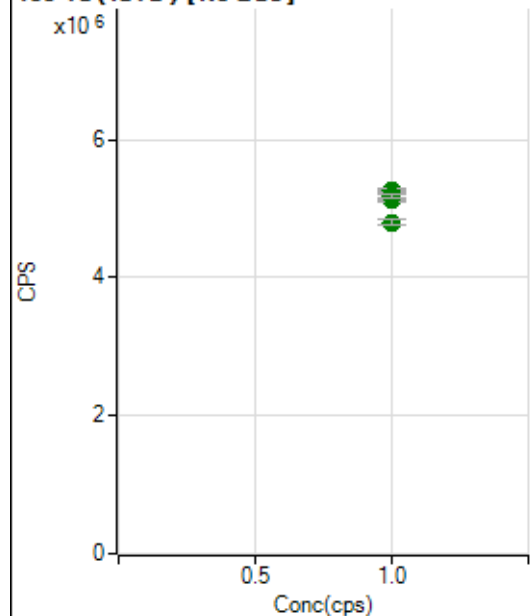
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1639450.15		A	0.5
2	☐	1.000		1631423.93		A	1.7
3	☐	1.000		1519731.05		A	9.7
4	☐	1.000		1548456.12		A	0.4
5	☐	1.000		1552323.33		P	0.1
6	☐	1.000		1471273.92		P	3.0
7	☐	1.000		1471435.07		P	0.4
8	☐	1.000		1348587.79		P	0.3

115 In (ISTD) [No Gas]

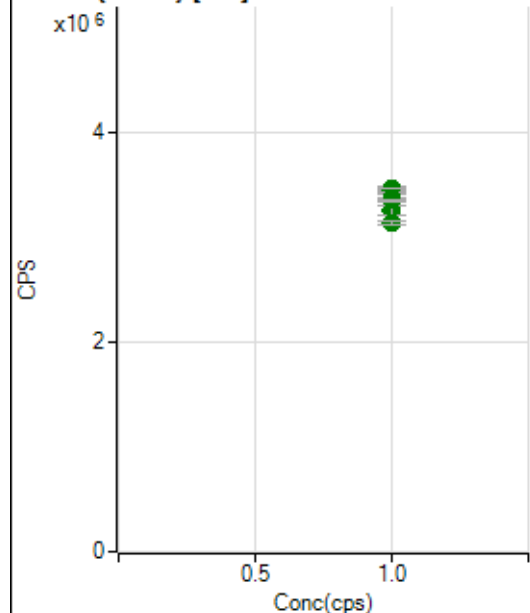
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3398270.51		A	0.2
2	☐	1.000		3382735.83		A	0.7
3	☐	1.000		3359173.62		A	0.0
4	☐	1.000		3275681.91		A	1.6
5	☐	1.000		3270634.90		A	2.0
6	☐	1.000		3177517.63		A	0.9
7	☐	1.000		3141330.86		A	0.6
8	☐	1.000		2985693.08		A	1.8

115 In (ISTD) [He]

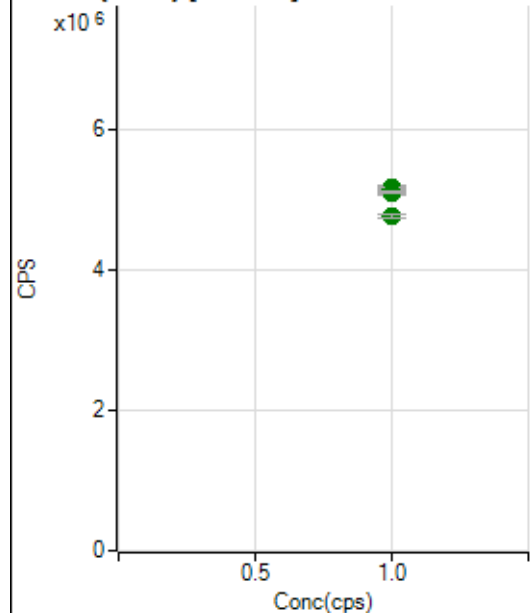
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1128922.49		P	0.5
2	☐	1.000		1123432.02		P	0.2
3	☐	1.000		1045025.88		P	9.1
4	☐	1.000		1076168.70		P	0.4
5	☐	1.000		1060797.10		P	0.4
6	☐	1.000		1009891.06		P	3.3
7	☐	1.000		1001033.92		P	0.1
8	☐	1.000		980436.29		P	0.3

159 Tb (ISTD) [No Gas]

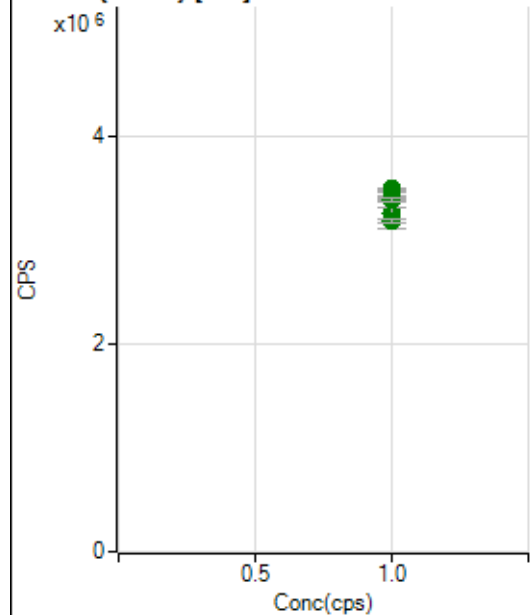
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5254987.42		A	0.7
2	☐	1.000		5234207.63		A	0.8
3	☐	1.000		5240560.48		A	0.5
4	☐	1.000		5177112.98		A	0.9
5	☐	1.000		5256395.79		A	1.0
6	☐	1.000		5114961.11		A	0.9
7	☐	1.000		5186044.57		A	0.8
8	☐	1.000		4805121.84		A	1.6

159 Tb (ISTD) [He]

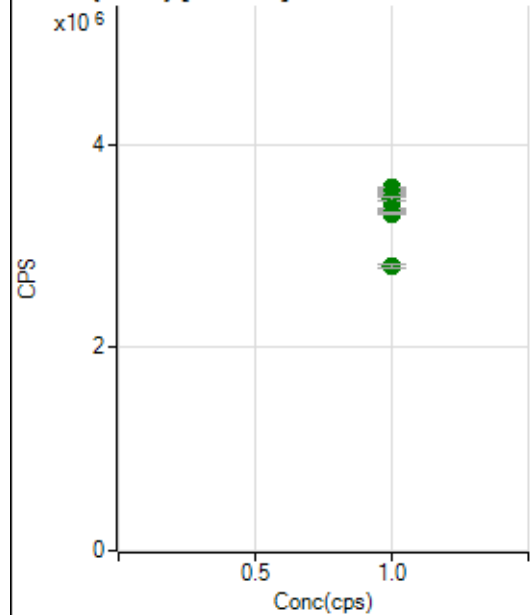
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3459449.43		A	0.9
2	☐	1.000		3448320.89		A	0.7
3	☐	1.000		3269939.36		A	8.8
4	☐	1.000		3369520.13		A	0.7
5	☐	1.000		3349597.69		A	0.7
6	☐	1.000		3253603.46		A	3.2
7	☐	1.000		3351569.25		A	0.7
8	☐	1.000		3132591.86		A	1.0

165 Ho (ISTD) [No Gas]

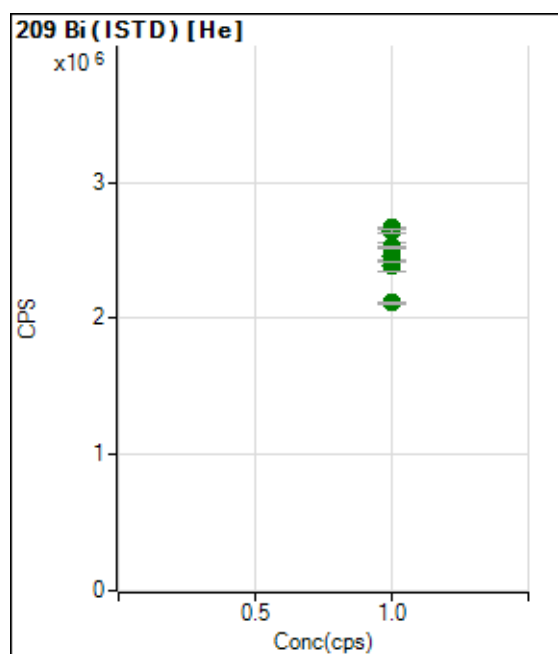
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5168411.31		A	0.6
2	☐	1.000		5139594.37		A	0.8
3	☐	1.000		5166498.64		A	1.4
4	☐	1.000		5112531.38		A	0.3
5	☐	1.000		5148153.78		A	0.8
6	☐	1.000		5094033.85		A	1.2
7	☐	1.000		5105649.58		A	0.5
8	☐	1.000		4776590.41		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3491248.63		A	0.8
2	☐	1.000		3460341.13		A	0.3
3	☐	1.000		3255890.51		A	9.0
4	☐	1.000		3403597.00		A	0.7
5	☐	1.000		3414443.73		A	0.6
6	☐	1.000		3254467.07		A	3.6
7	☐	1.000		3386878.70		A	1.3
8	☐	1.000		3180960.13		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3572116.13		A	0.2
2	☐	1.000		3524040.40		A	1.3
3	☐	1.000		3516797.83		A	0.7
4	☐	1.000		3451711.76		A	0.2
5	☐	1.000		3460480.54		A	1.3
6	☐	1.000		3363677.00		A	0.8
7	☐	1.000		3317245.51		A	0.6
8	☐	1.000		2805402.03		A	1.1



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2663959.75		A	0.5
2	☐	1.000		2640522.48		A	0.7
3	☐	1.000		2454019.43		A	8.5
4	☐	1.000		2522298.94		A	0.5
5	☐	1.000		2518280.55		A	0.3
6	☐	1.000		2384320.02		A	3.2
7	☐	1.000		2412653.99		A	0.4
8	☐	1.000		2114258.42		A	0.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7061424-MS1.b

Acq. Date-Time 2024-06-14 12:18:23

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		3983	39825.64			0.765	5.000
24		35062	350615.69			0.551	5.000
25		4469	44687.57			0.591	5.000
26		5124	51241.01			0.334	5.000
59		31415	314150.00			0.532	5.000
113		4769	47693.77			0.694	5.000
115		59148	591480.45			0.579	5.000
206		17262	172619.58			0.219	5.000
207		16027	160270.22			0.315	5.000
208		37977	379765.65			0.542	5.000
220		0	1.20			22.822	

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

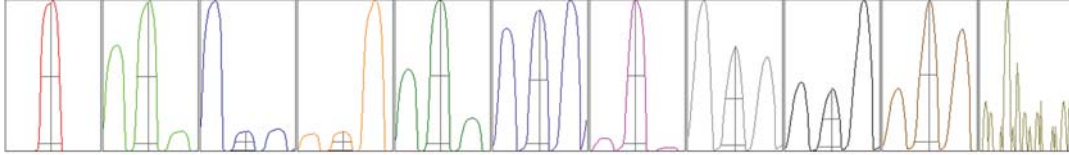
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4022	4005	3978	3960	3949
24	34751	35101	35282	35063	35110
25	4445	4436	4481	4485	4496
26	5124	5122	5153	5114	5108
59	31363	31403	31704	31309	31297
113	4747	4797	4807	4768	4728
115	59144	59481	59492	58890	58732
206	17263	17324	17255	17245	17223
207	16028	16104	16039	15979	15985
208	37827	37946	38337	37884	37888

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	6868.51	8.95	8.90 - 9.10	
24	59361.45	23.95	23.90 - 24.10	
25	7632.00	24.95	24.90 - 25.10	
26	8680.78	25.95	25.90 - 26.10	
59	54264.33	58.95	58.90 - 59.10	
113	8856.34	113.00	112.90 - 113.10	
115	112445.66	114.95	114.90 - 115.10	
206	33540.48	206.05	205.90 - 206.10	
207	30122.68	207.00	206.90 - 207.10	
208	72575.28	208.00	207.90 - 208.10	
220	0.00	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.735	0.900	
24	0.61	0.741	0.900	
25	0.60	0.736	0.900	
26	0.60	0.735	0.900	
59	0.60	0.743	0.900	
113	0.55	0.725	0.900	
115	0.54	0.737	0.900	
206	0.54	0.778	0.900	
207	0.54	0.758	0.900	
208	0.54	0.771	0.900	
220	0.18	0.175		

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	8.3 V	Deflect	15.6 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 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	133	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.3 mm
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EM

Discriminator	4.6 mV	Analog HV	2313 V	Pulse HV	1394 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9373	93725.92			0.364	
89		13646	136461.03			0.602	
205		18156	181555.05			0.430	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9393	9374	9370	9407	9318
89	13773	13628	13676	13569	13584
205	18222	18254	18127	18094	18080

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	8.9 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 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	133	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.3 mm
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EM

Discriminator	4.6 mV	Analog HV	2313 V	Pulse HV	1394 V
---------------	--------	-----------	--------	----------	--------