

# TRIP Intercomparison Results: December 11, 2017

Second Semester QC Sample Results Reference time: 17:00 UTC, October 18, 2017

<sup>125</sup> I	Sample activity in Bq	Uncertainty in Bq
Certified value	1.01E+04	2.17E+02

## I-125 Results

<sup>125</sup> I	Lowest value – 25%	Highest value +50%	Root Mean Squared Error of relative bias and relative precision
ANSI 13.30 acceptance criteria	7.60E+03	1.52E+04	<0.25

Facility code	Facility average result in Bq	Facility average uncertainty in Bq	ANSI 13.30 1996 calculated bias	ANSI N13.30 2011 RMSE*	Meets ANSI 13.30 1996 acceptance criteria –25% to +50%	Meets ANSI 13.30 2011 acceptance criteria RMSE <0.25*
5	9.47E+03	9.43E+01	-0.07	0.08	Yes	Yes
10	1.07E+04	4.80E+03	0.05	0.07	Yes	Yes
15	9.58E+03	9.10E+01	-0.05	0.05	Yes	Yes
20	NR	NR	NR	NR	NR	NR
29	9.68E+03	1.50E+02	-0.04	0.04	Yes	Yes
30	7.38E+03	5.90E+02	-0.27	0.28	No	No
35	9.84E+03	9.32E+02	-0.03	0.03	Yes	Yes
39	9.91E+03	2.74E+03	-0.02	0.04	Yes	Yes
40	1.13E+04	1.82E+03	0.11	0.11	Yes	Yes
45	1.08E+04	1.08E+02	0.07	0.07	Yes	Yes
50	NR	NR	NR	NR	NR	NR
55	1.04E+04	2.46E+02	0.02	0.04	Yes	Yes
75	1.02E+04	5.05E+02	0.01	0.03	Yes	Yes
95	9.23E+03	2.82E+02	-0.09	0.09	Yes	Yes
97	9.76E+03	3.31E+02	-0.04	0.04	Yes	Yes
99	9.53E+03	8.75E+02	-0.06	0.07	Yes	Yes

\*Five replicates required for RMSE NR = Not reported

<sup>131</sup> I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	2.45E+04	3.91E+02

## I-131 Results

<sup>131</sup> I	Lowest value (Bq) – 25%	Highest value (Bq) +50%	Root Mean Squared Error of relative bias and relative precision
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ANSI 13.30 acceptance criteria	1.84E+04	3.68E+04	<0.25
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Facility code	Facility average result in Bq	Facility average uncertainty in Bq	ANSI 13.30 1996 calculated bias	ANSI N13.30 2011 RMSE*	Meets ANSI 13.30 1996 acceptance criteria –25% to +50%	Meets ANSI 13.30 2011 acceptance criteria RMSE <0.25*
5	2.54E+04	3.16E+02	0.03	0.05	Yes	Yes
10-802	2.62E+04	3.94E+03	0.07	0.07	Yes	Yes
10-falcon	2.53E+04	3.60E+03	0.03	0.03	Yes	Yes
10-thermo	2.74E+04	2.75E+03	0.12	0.12	Yes	Yes
15	2.90E+04	5.70E+02	0.18	0.18	Yes	Yes
20	NR	NR	NR	NR	NR	NR
29	3.01E+04	1.01E+03	0.23	0.23	Yes	Yes
30	2.51E+04	2.06E+03	0.02	0.11	Yes	Yes
35	2.69E+04	1.20E+03	0.09	0.09	Yes	Yes
39	2.54E+04	6.22E+03	0.04	0.04	Yes	Yes
40	2.68E+04	4.09E+03	0.09	0.09	Yes	Yes
45	2.31E+04	4.54E+02	-0.06	0.06	Yes	Yes
50	NR	NR	NR	NR	NR	NR
55	NR	NR	NR	NR	NR	NR
75	1.99E+04	7.06E+02	-0.19	0.19	Yes	Yes
95	2.69E+04	1.64E+03	0.10	0.10	Yes	Yes
97	2.75E+04	1.12E+03	0.12	0.12	Yes	Yes
99	2.65E+04	2.63E+02	0.08	0.08	Yes	Yes

\*Five replicates required for RMSE NR = Not reported