

# TRIP Intercomparison Results: June 30, 2015

First Semester QC Sample Results Reference time: 12:00 PDT, April 27, 2015

<sup>125</sup> I	Sample activity in Bq	Uncertainty in Bq
Certified value	1.13E+04	6.90E+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	8.48E+03	1.70E+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	1.15E+04	1.31E+02	0.02	0.03	Yes	Yes
10	NR	NR	NR	NR	NR	NR
15	1.13E+04	9.41E+01	0.00	0.09	Yes	Yes
25	1.08E+04	4.73E+03	-0.04	0.04	Yes	Yes
29	1.13E+04	1.87E+02	0.00	0.00	Yes	Yes
35	1.11E+04	6.28E+02	-0.02	0.02	Yes	Yes
39	NR	NR	NR	NR	NR	NR
45	1.50E+04	2.73E+02	0.32	0.32	Yes	No
55	1.05E+04	2.18E+02	-0.07	0.08	Yes	Yes
65	1.02E+04	1.20E+03	-0.09	0.10	Yes	Yes
75	1.26E+04	5.62E+02	0.12	0.12	Yes	Yes
95**	1.15E+04	1.24E+02	0.02	0.03	Yes	Yes
97	1.14E+04	4.70E+02	0.01	0.01	Yes	Yes
99	1.08E+04	9.74E+02	-0.05	0.05	Yes	Yes

\*Five replicates required for RMSE \*\* Sample analyzed by facility 5 NR = Not reported

<sup>131</sup> I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	1.65E+04	5.90E+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
ANSI 13.30 acceptance criteria	1.24E+04	2.48E+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	1.81E+04	2.32E+02	0.10	0.10	Yes	Yes
10	1.77E+04	1.77E+03	0.07	0.09	Yes	Yes
15	1.68E+04	2.94E+02	0.02	0.04	Yes	Yes
25	1.62E+04	7.10E+03	-0.02	0.02	Yes	Yes
29	1.68E+04	2.30E+03	0.02	0.06	Yes	Yes
35	1.62E+04	3.61E+02	-0.02	0.02	Yes	Yes
39	NR	NR	NR	NR	NR	NR
45	1.46E+04	2.60E+02	-0.11	0.11	Yes	Yes
65	1.31E+04	8.44E+02	-0.21	0.21	Yes	Yes
75	1.90E+04	6.90E+02	0.15	0.16	Yes	Yes
95**	1.73E+04	3.12E+02	0.05	0.05	Yes	Yes
97	1.72E+04	6.38E+02	0.04	0.04	Yes	Yes
99	1.66E+04	3.69E+02	0.01	0.01	Yes	Yes

\*Five replicates required for RMSE \*\* Sample analyzed by facility 5 NR = Not reported