

# TRIP Intercomparison Results: June 9, 2014

First Semester QC Sample Results Reference time: 12:00 PDT, April 18, 2014

<sup>125</sup> I	Sample activity in Bq	Uncertainty in Bq
Certified value	2.24E+04	1.00E+03

## 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	1.68E+04	3.36E+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	2.50E+04	1.36E+02	0.12	0.12	Yes	Yes
15	1.94E+04	1.22E+02	-0.13	0.13	Yes	Yes
25	2.11E+04	9.24E+03	-0.06	0.06	Yes	Yes
29	1.59E+04	2.93E+02	-0.29	0.29	No	No
35	2.11E+04	4.27E+02	-0.06	0.06	Yes	Yes
45B	2.37E+04	1.84E+01	0.06	0.06	Yes	Yes
45A	1.82E+04	1.62E+01	-0.19	0.19	Yes	Yes
55	2.29E+04	3.17E+02	0.02	0.14	Yes	Yes
65	2.27E+04	2.66E+03	0.01	0.02	Yes	Yes
75	2.36E+04	6.49E+02	0.05	0.05	Yes	Yes
85	NR	NR	NR	NR	NR	NR
87	NR	NR	NR	NR	NR	NR
95	NR	NR	NR	NR	NR	NR
99	2.17E+04	2.41E+03	-0.03	0.01	Yes	Yes

\*Five replicates required for RMSE NR = Not reported

<sup>131</sup> I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	3.03E+04	9.20E+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	2.27E+04	4.55E+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	3.18E+04	3.67E+02	0.05	0.05	Yes	Yes
15	3.32E+04	3.92E+02	0.10	0.10	Yes	Yes
25	3.00E+04	1.31E+03	-0.01	0.02	Yes	Yes
29	8.25E+03	1.24E+03	-0.73	0.32	No	No
35	3.02E+04	6.26E+02	0.00	0.01	Yes	Yes
45A	2.72E+04	1.72E+01	-0.10	0.10	Yes	No
45B	3.03E+04	1.74E+01	0.00	0.01	Yes	Yes
65	2.91E+04	2.90E+03	-0.04	0.04	Yes	Yes
75	3.40E+04	7.00E+02	0.12	0.12	Yes	Yes
95	NR	NR	NR	NR	NR	NR
99	3.09E+04	1.27E+03	0.02	0.01	Yes	Yes

\*Five replicates required for RMSE NR = Not reported