

TRIP Intercomparison Results: May 3, 2013

First Semester QC Sample Results Reference time: 12:00 EST, March 25, 2013

¹²⁵ I	Sample activity in Bq	Uncertainty in Bq
Certified value*	1.66E+04	5.80E+02

I-125 Results

¹²⁵ I	Lowest value – 25%	Highest value +50%	Root Mean Squared Error of relative bias and relative precision
ANSI 13.30 acceptance criteria	1.21E+04	2.42E+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 RSME*	Meets ANSI 13.30 1996 acceptance criteria –25% to +50%	Meets ANSI 13.30 2011 acceptance criteria RMSE <0.25*
5	1.60E+04	1.14E+02	-0.01	0.05	Yes	Yes
15	1.55E+04	1.10E+02	-0.04	0.04	Yes	Yes
25	1.50E+04	5.97E+03	-0.07	0.07	Yes	Yes
35	1.56E+04	1.30E+03	-0.03	0.04	Yes	Yes
45	1.63E+04	3.00E+04	0.01	0.02	Yes	Yes
55	1.67E+04	2.69E+02	0.04	0.15	Yes	Yes
65	1.92E+04	9.73E+03	0.19	0.19	Yes	Yes
75	1.87E+04	5.78E+02	0.16	0.16	Yes	Yes
85	1.70E+04	3.91E+02	0.05	0.05	Yes	Yes
87	1.22E+04	3.32E+02	-0.24	0.24	Yes	Yes
95	1.86E+04	2.46E+03	0.15	0.16	Yes	Yes
99	1.65E+04	3.54E+02	0.03	0.03	Yes	Yes

*Five replicates required for RSME NR = Not reported

¹³¹ I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	2.16E+04	7.10E+02

I-131 Results

¹³¹ I	Lowest value (Bq) – 25%	Highest value (Bq) +50%	Root Mean Squared Error of relative bias and relative precision
ANSI 13.30 acceptance criteria	1.62E+04	3.24E+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*
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5	2.10E+04	2.70E+02	-0.03	0.03	Yes	Yes
15	2.36E+04	3.31E+02	0.09	0.09	Yes	Yes
25	2.31E+04	1.01E+04	0.07	0.07	Yes	Yes
35	2.32E+04	1.19E+03	0.07	0.08	Yes	Yes
45	2.17E+04	1.80E+01	0.00	0.01	Yes	Yes
65	2.06E+04	3.38E+03	-0.05	0.05	Yes	Yes
75	2.53E+04	6.73E+02	0.17	0.17	Yes	Yes
95	2.00E+04	5.29E+03	-0.07	0.09	Yes	Yes
99	2.12E+04	2.45E+02	-0.02	0.02	Yes	Yes

*Five replicates required for RSME NR = Not reported