

TRIP Intercomparison Results: December 7, 2012

Second Semester QC Sample Results Reference time: 12:00 EST, October 12, 2012

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	1.25E+04	2.50E+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	1.58E+04	3.81E+02	-0.05	0.05	Yes	Yes
15	1.36E+04	1.02E+02	-0.18	0.18	Yes	Yes
25	1.52E+04	6.66E+03	-0.08	0.08	Yes	Yes
35	1.40E+04	1.41E+03	-0.16	0.16	Yes	Yes
45	1.64E+04	1.55E+01	-0.01	0.04	Yes	Yes
55	1.89E+04	2.83E+02	0.14	0.16	Yes	Yes
65	1.72E+04	7.07E+03	0.03	0.04	Yes	Yes
75	1.91E+04	6.91E+02	0.15	0.15	Yes	Yes
85	1.72E+04	3.93E+02	0.03	0.03	Yes	Yes
87	1.65E+04	3.85E+02	-0.01	0.01	Yes	Yes
95	1.83E+04	2.39E+03	0.10	0.10	Yes	Yes
99	1.67E+04	1.50E+03	0.00	0.01	Yes	Yes

*Five replicates required for RSME NR = Not reported

¹³¹ I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	2.14E+04	7.40E+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	1.59E+04	3.18E+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	1.92E+04	2.61E+02	-0.10	0.10	Yes	Yes
15	2.04E+04	3.09E+02	-0.04	0.04	Yes	Yes
25	2.10E+04	9.18E+03	-0.01	0.01	Yes	Yes
35	2.14E+04	4.59E+02	0.01	0.01	Yes	Yes
45	2.08E+04	1.63E+01	-0.02	0.04	Yes	Yes
65	2.04E+04	1.32E+03	-0.04	0.04	Yes	Yes
75	2.43E+04	7.79E+02	0.14	0.15	Yes	Yes
95	1.80E+04	4.76E+03	-0.15	0.15	Yes	Yes
99	2.13E+04	1.48E+03	0.00	0.02	Yes	Yes

*Five replicates required for RSME NR = Not reported