

TRIP Intercomparison Results: December 31, 2015

Second Semester QC Sample Results Reference time: 12:00 PDT, November 9, 2015

¹²⁵ I	Sample activity in Bq	Uncertainty in Bq
Certified value	1.25E+04	2.56E+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	9.38E+03	1.88E+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	1.42E+04	1.06E+02	0.14	0.14	Yes	Yes
10	NR	NR	NR	NR	NR	NR
15	1.24E+04	1.07E+02	-0.01	0.01	Yes	Yes
20	NR	NR	NR	NR	NR	NR
25	1.18E+04	5.16E+03	-0.06	0.06	Yes	Yes
29	1.33E+04	2.23E+03	0.06	0.06	Yes	Yes
35	1.14E+04	1.13E+03	-0.08	0.09	Yes	Yes
39	1.22E+04	3.74E+03	-0.03	0.03	Yes	Yes
45	1.47E+04	1.06E+03	0.17	0.18	Yes	Yes
55	1.46E+04	2.46E+02	0.17	0.17	Yes	Yes
65	1.10E+04	2.59E+03	-0.12	0.12	Yes	Yes
75	1.98E+04	7.03E+02	0.58	0.58	No	No
95	1.12E+04	3.90E+02	-0.10	0.10	Yes	Yes
97	1.24E+04	1.15E+03	0.00	0.02	Yes	Yes
99	1.23E+04	1.02E+03	-0.01	0.03	Yes	Yes

*Five replicates required for RMSE NR = Not reported

¹³¹ I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	1.26E+04	1.80E+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	9.45E+03	1.89E+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	1.40E+04	2.60E+02	0.11	0.11	Yes	Yes
10	1.19E+04	9.95E+02	-0.06	0.06	Yes	Yes
15	1.06E+04	1.99E+02	-0.16	0.16	Yes	Yes
20	1.26E+04	1.60E+03	0.00	0.04	Yes	Yes
25	1.35E+04	5.90E+03	0.07	0.07	Yes	Yes
29	1.14E+04	3.79E+03	-0.10	0.15	Yes	Yes
35	1.22E+04	1.78E+02	-0.03	0.03	Yes	Yes
39	1.13E+04	2.80E+03	-0.10	0.10	Yes	Yes
45	1.12E+04	2.60E+02	-0.11	0.11	Yes	Yes
55	NR	NR	NR	NR	NR	NR
65	7.50E+03	9.84E+02	-0.40	0.40	No	No
75	1.43E+04	5.97E+02	0.13	0.14	Yes	Yes
95	1.13E+04	7.68E+02	-0.11	0.11	Yes	Yes
97	1.29E+04	5.87E+02	0.03	0.03	Yes	Yes
99	1.27E+04	2.86E+02	0.01	0.02	Yes	Yes
*Five replicates required for RMSE NR = Not reported						