

TRIP Intercomparison Results: January 31, 2017

Second Semester QC Sample Results Reference time: 12:00 PDT, November 8, 2016

¹²⁵ I	Sample activity in Bq	Uncertainty in Bq
Certified value	1.17E+04	2.34E+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	8.75E+03	1.75E+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	1.22E+04	1.54E+02	0.05	0.06	Yes	Yes
10	1.20E+04	4.55E+03	0.03	0.06	Yes	Yes
15	1.02E+04	1.01E+02	-0.12	0.12	Yes	Yes
20	NR	NR	NR	NR	NR	NR
25	1.09E+04	4.77E+03	-0.07	0.07	Yes	Yes
29	1.33E+04	1.83E+02	0.14	0.14	Yes	Yes
35	1.16E+04	1.32E+03	-0.01	0.04	Yes	Yes
39	1.03E+04	3.20E+03	-0.11	0.11	Yes	Yes
40	1.23E+04	1.98E+03	0.05	0.05	Yes	Yes
45	1.11E+04	1.38E+02	-0.05	0.05	Yes	Yes
50	NR	NR	NR	NR	NR	NR
55	1.35E+04	2.41E+02	0.16	0.17	Yes	Yes
65	NR	NR	NR	NR	NR	NR
75	1.27E+04	5.64E+02	0.09	0.09	Yes	Yes
95	1.24E+04	4.23E+02	0.06	0.06	Yes	Yes
97	1.15E+04	3.78E+02	-0.01	0.02	Yes	Yes
99	1.12E+04	9.36E+02	-0.04	0.04	Yes	Yes

*Five replicates required for RMSE NR = Not reported

¹³¹ I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	1.60E+04	2.24E+02

I-131 Results

¹³¹ I	Lowest value (Bq) – 25%	Highest value (Bq) +50%	Root Mean Squared Error of relative bias and relative precision
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ANSI 13.30 acceptance criteria	1.20E+04	2.40E+04	<0.25
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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	1.84E+04	2.35E+02	0.15	0.15	Yes	Yes
10A	1.76E+04	1.78E+03	0.10	0.10	Yes	Yes
10B	1.56E+04	1.42E+03	-0.02	0.03	Yes	Yes
10C	1.63E+04	1.66E+03	0.02	0.02	Yes	Yes
15	1.62E+04	7.62E+02	0.01	0.04	Yes	Yes
20	1.42E+04	5.79E+02	-0.11	0.11	Yes	Yes
25	1.80E+04	7.89E+03	0.13	0.13	Yes	Yes
29	1.86E+04	5.54E+02	0.16	0.16	Yes	Yes
35	1.75E+04	7.26E+02	0.10	0.10	Yes	Yes
39	1.55E+04	3.80E+03	-0.03	0.05	Yes	Yes
40	1.65E+04	2.83E+03	0.03	0.04	Yes	Yes
45	1.34E+04	1.86E+02	-0.16	0.16	Yes	Yes
50	NR	NR	NR	NR	NR	NR
55	NR	NR	NR	NR	NR	NR
65	NR	NR	NR	NR	NR	NR
75	1.99E+04	7.05E+02	0.24	0.25	Yes	(Yes)
95	1.78E+04	1.01E+03	0.11	0.11	Yes	Yes
97	1.80E+04	4.20E+02	0.12	0.12	Yes	Yes
99	1.73E+04	2.91E+02	0.08	0.08	Yes	Yes

*Five replicates required for RMSE NR = Not reported