

TRIP Intercomparison Results: January 14, 2018

Second Semester QC Sample Results Reference time: 17:00 UTC, October 17, 2018

¹²⁵ I	Sample activity in Bq	Uncertainty in Bq
Certified value	9.58E+03	4.19E+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	7.19E+03	1.44E+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	9.83E+03	7.40E+01	0.03	0.03	yes	yes
10	1.06E+04	2.40E+03	0.11	0.14	yes	yes
15	8.61E+03	8.56E+01	-0.10	0.10	yes	yes
25	9.59E+03	1.63E+02	0.00	0.00	yes	yes
30	N.R.	N.R.	N.R.	N.R.	NR	NR
35	8.92E+03	9.08E+02	-0.07	0.07	yes	yes
39	9.29E+03	1.91E+03	-0.03	0.08	yes	yes
40	9.78E+03	1.59E+03	0.02	0.04	yes	yes
45	8.70E+03	1.00E+02	-0.09	0.09	yes	yes
50	7.93E+03	4.32E+02	-0.17	0.17	yes	yes
55	1.19E+04	2.48E+02	0.24	0.25	yes	no
65	9.30E+03	4.82E+02	-0.03	0.03	yes	yes
75-A-1	1.25E+04	1.57E+03	0.31	0.31	yes	no
75-A-3	1.33E+04	2.24E+03	0.39	0.39	yes	no
75-D	1.23E+04	2.58E+03	0.28	0.30	yes	no
75-E	1.14E+04	1.77E+03	0.19	0.19	yes	yes
75-F	7.61E+03	1.45E+03	-0.21	0.22	yes	yes
75-G-1	1.08E+04	1.64E+03	0.13	0.14	yes	yes
75-G-2	1.13E+04	1.46E+03	0.18	0.19	yes	yes
75-G-3	9.67E+03	1.21E+03	0.01	0.01	yes	yes
75-H	1.12E+04	1.37E+03	0.16	0.17	yes	yes
75-I-2	9.95E+03	1.28E+03	0.04	0.04	yes	yes
75-J	1.03E+04	1.26E+03	0.07	0.07	yes	yes

75-K	1.08E+04	1.39E+03	0.13	0.13	yes	yes
95	8.77E+03	9.16E+02	-0.08	0.09	yes	yes
97	9.88E+03	4.08E+02	0.03	0.04	yes	yes
99	9.16E+03	8.48E+02	-0.04	0.06	yes	yes
*Five replicates required for RMSE NR = Not reported						

¹³¹ I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	2.23E+04	3.56E+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	1.67E+04	3.35E+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	2.19E+04	2.96E+02	-0.02	0.02	yes	yes
10-HPGe	2.25E+04	1.62E+03	0.01	0.01	yes	yes
10-LaBr3	2.25E+04	3.35E+03	0.01	0.02	yes	yes
10-NaI	2.47E+04	1.84E+03	0.11	0.11	yes	yes
15	2.18E+04	4.54E+02	-0.02	0.03	yes	yes
25	2.34E+04	8.56E+02	0.05	0.05	yes	yes
30	NR	NR	NR	NR	NR	NR
35	2.17E+04	9.69E+02	-0.03	0.03	yes	yes
39	2.15E+04	4.16E+03	-0.04	0.04	yes	yes
40	2.23E+04	3.38E+03	0.00	0.04	yes	yes
45	1.76E+04	2.39E+02	-0.21	0.21	yes	yes
50	2.05E+04	1.86E+03	-0.08	0.09	yes	yes
65	2.23E+04	7.47E+02	0.00	0.04	yes	yes
75-A-1	2.19E+04	2.60E+03	-0.02	0.04	yes	yes
75-A-2	2.21E+04	2.40E+03	-0.01	0.01	yes	yes
75-A-3	2.27E+05	3.24E+04	9.16	9.16	no	no
75-B	2.16E+04	2.34E+03	-0.03	0.03	yes	yes
75-C	2.06E+04	3.10E+03	-0.08	0.08	yes	yes

