

# Individual Evaluation Report

for the Proficiency Test IAEA-TEL-2020-05 Part II

## Individual Evaluation Report for Laboratory Nr. 20

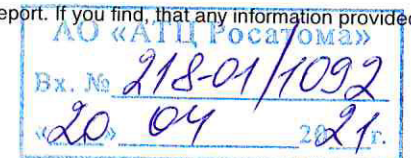
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# Proficiency Test IAEA-TEL-2020-05 Evaluation Report Part II

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Created on 2021-04-19

Evaluation Tables for Labcode 20. (Values and uncertainties expressed in Bq/kg)

Evaluation Result Table for Sample 1

Sample Code	Analyte	Target Value	Target Unc.	MARB	Rep. Value	Rep. Unc	Rel. Bias	Robust SD	Z-Score	Accuracy	P	Precision	Final Score
1	Ba-133	44.3	1.2	25 %	46	5	3.84 %	2.46	0.69	A	11.20	A	A
1	Co-60	106.5	2.5	20 %	105	11	-1.41 %	3.16	0.47	A	10.74	A	A
1	Cs-137	91.1	2.4	20 %	91	9	-0.11 %	1.44	0.07	A	10.23	A	A

Values and uncertainties expressed in Bq/kg d.w.

Evaluation Result Table for Sample 3

Sample Code	Analyte	Target Value	Target Unc.	MARB	Rep. Value	Rep. Unc	Rel. Bias	Robust SD	Z-Score	Accuracy	P	Precision	Final Score
3	Ra-226	750	30	30 %	740	90	-1.33 %	112	0.09	A	12.80	A	A

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Values and uncertainties for sample 4,5,6 expressed in Bq/filter

Evaluation Result Table for Sample 4

Sample Code	Analyte	Target Value	Target Unc.	MARB	Rep. Value	Rep. Unc	Rel. Bias	Robust SD	Z-Score	Accuracy	P	Precision	Final Score
4	Cs-134	15.8	0.8	30 %	14.0	2.0	-11.39 %	1.49	1.21	A	15.16	A	A
4	Cs-137	37.6	1.9	30 %	37	5	-1.60 %	3.12	0.19	A	14.43	A	A

Evaluation Result Table for Sample 5

Sample Code	Analyte	Target Value	Target Unc.	MARB	Rep. Value	Rep. Unc	Rel. Bias	Robust SD	Z-Score	Accuracy	P	Precision	Final Score
5	Cs-134	11.2	0.6	30 %	10.9	1.4	-2.68 %	0.95	0.32	A	13.92	A	A
5	Cs-137	29.3	1.5	30 %	29	4	-1.02 %	2.34	0.13	A	14.71	A	A

Evaluation Result Table for Sample 6

Sample Code	Analyte	Target Value	Target Unc.	MARB	Rep. Value	Rep. Unc	Rel. Bias	Robust SD	Z-Score	Accuracy	P	Precision	Final Score
6	Cs-134	20.5	1.1	30 %	17.5	2.3	-14.63 %	2.01	1.49	A	14.20	A	A
6	Cs-137	28.6	1.5	30 %	27	3	-5.59 %	2.12	0.75	A	12.29	A	A

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