



NOTE BY THE DIRECTOR-GENERAL

**EVALUATION OF THE RESULTS
OF THE FORTY-FIFTH OFFICIAL OPCW PROFICIENCY TEST**

1. The Director-General wishes to inform the Member States of the results of the Forty-Fifth Official OPCW Proficiency Test, which was conducted by the Technical Secretariat (hereinafter “the Secretariat”) from March to July 2019. The OPCW Laboratory is accredited by the Raad voor Accreditatie (RvA), the Netherlands, to conduct proficiency testing in compliance with the criteria laid down in International Organization for Standardization/International Electrotechnical Commission standard ISO/IEC 17043. The test was conducted according to the following quality management system documents:
 - (a) “Standard Operating Procedure for the Organisation of OPCW Proficiency Tests” (QDOC/LAB/SOP/PT01 (Issue 3, Revision 2, dated 11 March 2019));
 - (b) “Work Instruction for the Preparation of Samples for OPCW Proficiency Tests” (QDOC/LAB/WI/PT02 (Issue 3, Revision 2, dated 11 March 2019));
 - (c) “Work Instruction for the Evaluation of the Results of OPCW Proficiency Tests” (QDOC/LAB/WI/PT03 (Issue 3, Revision 4, dated 11 March 2019)); and
 - (d) “Work Instruction for the Reporting of the Results of the OPCW Proficiency Tests” (QDOC/LAB/WI/PT04 (Issue 3, Revision 0, dated 11 March 2019)).
2. In order to retain their designation, designated laboratories must demonstrate once per calendar year that they have maintained their capabilities in a proficiency test organised by the Secretariat, unless the additional guidelines in decision C-20/DEC.4 (dated 2 December 2015) are applicable.
3. The Bundeswehr Research Institute for Protective Technologies and NBC Protection (WIS), Germany, prepared the test samples and the Laboratorio de Verificación de Armas Químicas (LAVEMA) INTA Campus La Marañosa, Spain, evaluated the results of the Forty-Fifth Proficiency Test.
4. Thirteen laboratories nominated from 13 Member States, including the two assisting laboratories, participated in the test. One laboratory opted to participate in this test on a trial basis.



5. The preliminary evaluation report was discussed at a meeting between Secretariat staff and the test participants on 18 June 2019. The participants were given two weeks to comment on the results and to inform the Secretariat whether they accepted their performance evaluation.
6. The evaluating laboratory submitted its final evaluation report to the Secretariat on 4 July 2019.
7. The principal results of the Forty-Fifth Official OPCW Proficiency Test can be summarised as follows:
 - (a) All test participants submitted their analytical report within the test period.
 - (b) Four regular participants identified and reported all of the spiking chemicals with sufficient analytical data for all of the spiking chemicals.
 - (c) Six participants identified and reported six out of the seven spiking chemicals with sufficient analytical data for all of the reported chemicals.
 - (d) One false positive chemical and two non-scoring chemicals were reported.
 - (e) No score was given for the trial participant.
 - (f) The sample preparation and the evaluating laboratories submitted their report and are awarded the maximum performance rating of "A".
 - (g) There are six As and six Bs in the test score for the 10 regular participants and the two assisting laboratories.
8. The final results for all of the laboratories participating in the test are presented in the table in the Annex hereto.
9. The participating laboratories are reminded that if they have made any errors or reported false positives or false negatives (arising from a failure to find a spiking chemical or to provide sufficient supporting data for a chemical that is found), they should take immediate remedial action. Before participating in the next test, each such laboratory is required to submit a detailed follow-up report to the Secretariat stating the cause of the problem and any remedial action it has taken. Any such laboratory failing to submit the required report, including details of the remedial action it has taken, will not be permitted to participate in the next proficiency test.

Annex: Final Results of the Forty-Fifth Official OPCW Proficiency Test

Annex

**FINAL RESULTS OF THE FORTY-FIFTH
OFFICIAL OPCW PROFICIENCY TEST**

Participant Laboratory Code	No. of Spiking Chemicals¹ Reported	No. of Chemicals Scored	Rating	Comments
Australia Defence Science and Technology (DST) Group (18)	6	6	B	Spiking chemical D was not reported; two non-scoring chemicals J and K were reported.
Brazil Centro Tecnológico do Exército, CTEEx (08)	7	7	A	One non-scoring chemical J was reported.
Germany Bundeswehr Research Institute for Protective Technologies and NBC Protection	-	-	A	Sample preparation assistance.
India Centre for Analysis of Chemical Toxins (CACT), CSIR-Indian Institute of Chemical Technology (12)	6	6	B	Spiking chemical D was not reported; one non-scoring chemical J was reported.
Japan Chemical School, Ministry of Defense (01)	6	6	B	Spiking chemical D was not reported.

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The spiking chemicals were as follows:

Sample L113:	(A)	N,N-Dimethylphosphoramidic difluoride
Sample L111:	(B)	Diethyl methylphosphonate
Sample L111:	(C)	Diisopropyl methylphosphonate
Sample S114	(D)	Cyanide anion
Sample S116:	(E)	Triethanolamine
Sample S116:	(F)	2-(N,N-Diisopropylamino)ethanol
Sample S116:	(G)	Diethyl methylphosphonate

Participant Laboratory Code	No. of Spiking Chemicals¹ Reported	No. of Chemicals Scored	Rating	Comments
Poland Military University of Technology, Faculty of Advanced Technologies and Chemistry (19)	5	0	#	No score given for trial participation.
Republic of Korea Chemical, Biological, and Radiological Defense Research Institute (20)	6	6	B	Spiking chemical D was not reported.
Russian Federation Laboratory for the Chemical and Analytical Control of the Military Research Centre (11)	7	7	A	-
Singapore Verification Laboratory, Defence Medical and Environmental Research Institute, DSO National Laboratories (21)	6	6	B	Spiking chemical D was not reported.
Spain LAVEMA (Laboratorio de Verificación de Armas Químicas), INTA Campus La Marañosa	-	-	A	Evaluation assistance.
South Africa Protechnik Laboratories, a division of Armscor Defence Institutes (Pty) Ltd. (06)	6	6	B	Spiking chemical D was not reported; one non-scoring chemical J was reported.

Participant Laboratory Code	No. of Spiking Chemicals ¹ Reported	No. of Chemicals Scored	Rating	Comments
Sweden FOI, CBRN Defence and Security, Swedish Defence Research Agency (05)	7	7	A	-
United States of America ECBC Forensic Analytical Center, U.S. Army (02)	7	7	A	-