



Verification Division
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REPORT OF THE TWENTY-SECOND MEETING OF THE VALIDATION GROUP FOR THE UPDATING OF THE OPCW CENTRAL ANALYTICAL DATABASE 13 AND 14 DECEMBER 2005

1. The Validation Group (hereinafter “the Group”) met for the twenty-second time on 13 and 14 December 2005 to discuss the evaluation of new analytical data for possible inclusion in the OPCW Central Analytical Database (OCAD), and to consider matters related to it. Mr Gary Mallard of the United States of America chaired the Meeting.
2. The evaluators for analytical techniques evaluated new data and sent their written reports to the coordinators. The names of the coordinators who were present at the meeting are listed hereunder, along with the techniques for which they are responsible:

Mass spectrometry (MS): Mr Edward White (the United States of America)

Nuclear magnetic resonance (NMR): Mr Luigi Abis (Italy)

Gas chromatography (retention index) (GC(RI)): Mr Martin Söderström (Finland)

These coordinators provided an evaluation summary to the Group for discussion at the Meeting. The evaluators finalised the evaluation of the analytical data and confirmed that the data approved are technically valid.

3. The Group forwarded the validated analytical data to the Director-General for appropriate action.
4. The Group discussed the naming of unscheduled compounds, and decided to use the common names used by the Scientific Advisory Board (SAB) in its recommendations for additions to the OCAD (Annex 4 to SAB-IV/1, dated 6 February 2001). For example, the name “meta-xylem bromide” will be used rather than that used by the International Union of Pure and Applied Chemistry (IUPAC), “1-bromomethyl-3-methylbenzene”. However, the Group also decided that unscheduled degradation products should be named according to IUPAC rules.
5. The Group noted that the Conference of the States Parties had approved two groups of unscheduled compounds for inclusion in the OCAD (C-I/DEC.64, dated 22 May 1997, and Corr.1, dated 13 October 1997):



- (a) standard compounds—that is, compounds that are used in the performance mixture referred to in the OPCW standard operating procedures on analytical methods; and
 - (b) analytical derivatives of scheduled compounds (DS) that are needed for on-site analysis according to the OPCW's methods.
6. A number of compounds for which data were submitted for evaluation at this meeting were unscheduled. The Group classified them on the basis of the SAB's recommendations on including unscheduled compounds in the OCAD. Data other than those for DS were divided into three categories:
 - (a) category A: data on riot-control agents, as well as on degradation products of scheduled compounds and their analytical derivatives, which may be recommended for inclusion in the OCAD if found to be technically valid;
 - (b) category B: data on chemical weapons-related compounds found during any analysis that is carried out during destruction, whose technical evaluation was requested by the Technical Secretariat (hereinafter "the Secretariat"), and which are not currently recommended for inclusion in the OCAD; and
 - (c) category C: data on compounds that are not relevant to the Chemical Weapons Convention and that will therefore not be considered.
7. Data from these categories that have been found to be technically valid but that are not currently recommended for inclusion in the OCAD were given to the Secretariat, as were a list of compounds for which data have been submitted and the Group's rationale for the categories above.
8. The Group requested confirmation from the Secretariat that the compounds in category A above are of no commercial interest. The Group recommended that compounds found to be of commercial interest should be moved from category A to category B before the data for those compounds are submitted to the Executive Council.
9. The Secretariat informed the Group that it had started incorporating IUPAC chemical identifiers into the OCAD, and that these identifiers had been developed for all of the chemicals in the most recent version of the OCAD.
10. The GC subgroup discussed the calculation of GC(RI) values for chemicals for which no GC(RI) data are available. The Chairman of the Group presented a draft version of the introduction to the paper describing the method of calculation. Three groups were established to calculate GC(RI) values for these chemicals, and a timetable for the calculation of the data needed from these groups was established. The paper will be presented at the next meeting of the Group.

11. The following new analytical data are available for evaluation:
 - MS: 04-2-0400 to 04-2-0449
 - IR: 04-1-0222v to 04-1-0271v
 - GC(RI): 04-4-0209 to 04-4-0258, and 16-4-0061 to 16-4-0066
 - NMR: 25-3-0001 to 25-3-0040

12. The Group appointed evaluators for the analytical techniques, and they are listed in Annex 1 to this report. The evaluators for each technique undertook to send their evaluation reports to the respective coordinators no later than 1 April 2006. The coordinators undertook to send summary evaluation reports to the Group's Chairman and to the evaluators no later than 7 April 2006, so that the reports can be discussed at the Group's next meeting, which is scheduled for 11 and 12 April 2006. The evaluators agreed to come to that meeting prepared to finalise the evaluation of the analytical data referred to in paragraph 11 above.

13. The Group would like to express its profound gratitude for the work of its former Chairman, Mr Eric Wils of the Netherlands. From the moment the Group was established, his leadership was exceptional. His wisdom, skill, and humour will be sorely missed. The Group hopes that he will be able to join it for future meetings, so that its members can renew their acquaintance with him and so that the Group as a whole can continue to benefit from his experience and insights.

Annex: Lists of Evaluators by Analytical Technique

Annex

LISTS OF EVALUATORS BY ANALYTICAL TECHNIQUE

Note: Evaluators whose names are followed by an asterisk in the following tables attended the Twenty-Second Meeting of the Validation Group.

TABLE 1. IR EVALUATORS

Name	State Party	Address	Phone/Fax/E-Mail	Speciality
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Martin Söderström*	Finland	VERIFIN P.O. Box 55 00014 University of Helsinki Finland	+358 9 1915 0438 +358 9 1915 0437 martin.soderstrom@helsinki.fi	GC, IR
Stefan Kremer	Germany	WIS 29623, Munster, Germany	+49 5192 136 433 +49 5192 136 355 stefankremer@bwb.org	IR
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Name	State Party	Address	Phone/Fax/E-Mail	Speciality
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TABLE 2. MS EVALUATORS

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TABLE 3. NMR EVALUATORS

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TABLE 4. GC (RI) EVALUATORS

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* Present at the Twenty-Second Meeting of the Validation Group.

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