

REPORT No 12046

Date of issue: August 27, 2026

Status: FINAL REPORT

IEC 60754-2

TEST ON GASES EVOLVED DURING COMBUSTION OF MATERIALS FROM CABLES DETERMINATION OF ACIDITY (BY pH MEASUREMENT) AND CONDUCTIVITY Program: SQ-2501

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Prepared by:	Reviewed by:	Approved by:
Mateo Giovanni Assistant Technician	Eng. Erika Brest Chemistry expert	Eng. Emiliano Medina Quality Assurance Lead

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1. FOREWORD

This report summarizes the results of the **SQ-2501** proficiency testing program for determining the corrosivity potential of gases emitted during the combustion of electric cables. This program is conducted in a bilateral format, following the “split-sample” design described in clause A.4.2 of ISO/IEC 17043: 2023 (Alternative interlaboratory comparisons).

South Quality conducted the testing program in May/June 2026 with the aim of assessing the laboratory's ability to competently perform the designated tests.

2. ORGANIZATION

Program Coordinator: Eng. Erika Brest
Assistant Technician: Mateo Giovanni
Statistics: Lic. Manuel Tozaki
Supervision: Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to determine pH and conductivity values in accordance with the following standard:

Standard
IEC 60754-2: 2011 + AMD 1: 2019

To verify this, batches of cables were selected.

Participants in this program have not been previously informed about the expected values or value ranges of the samples they receive.

4. PARTICIPANT

Company: **METCAB UYGUNLUK DEGERLENDIRME LIMITED SIRKETI**
Laboratory: **METCAB TEST LABORATORY**
Country: Türkiye
Client ID: S362
Contact person: Ersin Gök
Technical Manager
egok@metcab.org

5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was applied, and samples were selected using random number generation software.

The results of this test are presented below:

Size of each batch: **50 units**

Tested samples from each batch: **15 units**

DETERMINATION	SHEATH - HOMOGENEITY OF RESULTS IN THE SAMPLES ANALYZED		
	BATCH: LEM1916	BATCH: LEM1917	BATCH: LEM1918
pH	YES	NO	YES
CONDUCTIVITY	YES	NO	YES

Size of each batch: **50 units**

Tested samples from each batch: **15 units**

DETERMINATION	SHEATH - HOMOGENEITY OF RESULTS IN THE SAMPLES ANALYZED		
	BATCH: LEM3805	BATCH: LEM3806	BATCH: LEM3807
pH	YES	YES	YES
CONDUCTIVITY	YES	YES	YES

The samples for this program are taken from the selected batches identified as **LEM1918** and **LEM3805**.

For the indicated batches, the values determined in the homogeneity study are utilized as the assigned values.

The analysis of the test data indicated that the selected samples exhibited sufficient homogeneity for the program. Therefore, the results of participants identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

The following samples were sent for testing:

Batch:	LEM1918
Sample ID:	10 + 27 + 46
Characteristics:	Round cable - 2 x 1.5 mm ² - 10 cm

Batch:	LEM3805
Sample ID:	04 + 30 + 42
Characteristics:	Round cable - 2 x 2.5 mm ² - 10 cm

7. IMAGES



8. ASSIGNED VALUES

BATCH: LEM1918		
PROPERTY	RESULT - AVG	SD
pH	2.62	0.05
Conductivity ($\mu\text{S}/\text{mm}$)	147.61	9.32

BATCH: LEM3805		
PROPERTY	RESULT - AVG	SD
pH	5.57	0.08
Conductivity ($\mu\text{S}/\text{mm}$)	0.563	0.071

9. PARTICIPANT RESULTS (SEE APPENDICES B AND C)

BATCH: LEM1918	
PROPERTY	RESULT - AVG
pH	2.55
Conductivity ($\mu\text{S}/\text{mm}$)	138.00

BATCH: LEM3805	
PROPERTY	RESULT - AVG
pH	5.46
Conductivity ($\mu\text{S}/\text{mm}$)	0.540

10. STATISTICS

The results must be treated as quantitative.

According to B.4.1.3 of ISO 17043 the appropriate technique is to compare participant results with the assigned values. The results can be compared using **z score**.

$$z = \frac{x - X}{\hat{\sigma}}$$

x is the participant's result

X is the assigned value

$\hat{\sigma}$ is the standard deviation

The performance evaluation of each sample is carried out with the following criteria:

$|z| \leq 2.0$ indicates “satisfactory” performance and generates no signal;

$2.0 < |z| < 3.0$ indicates “questionable” performance and generates a warning signal;

$|z| \geq 3.0$ indicates “unsatisfactory” performance and generates an action signal;

11. EVALUATION OF PERFORMANCE

PROPERTY	BATCH: LEM1918		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
pH	2.55	2.62	1.40	SATISFACTORY
CONDUCTIVITY (μS/mm)	138.00	147.61	1.03	SATISFACTORY

PROPERTY	BATCH: LEM3805		z score	PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE		
pH	5.46	5.57	1.38	SATISFACTORY
CONDUCTIVITY (μS/mm)	0.540	0.563	0.32	SATISFACTORY

12. CONCLUSIONS

The overall performance of this **SQ-2501** program from the participant laboratory **METCAB UYGUNLUK DEGERLENDIRME LIMITED SIRKETI - METCAB TEST LABORATORY**, is **SUFFICIENT** based on expected results.

The criteria used for evaluating the overall performance are as follows:

- **SUFFICIENT** performance: No unsatisfactory/questionable results were obtained.
- **ALMOST SUFFICIENT** performance: No unsatisfactory results were obtained, but one questionable result was found.
- **INSUFFICIENT** performance: An unsatisfactory result or two questionable results were obtained.

APPENDIX A

INSTRUCTIONS



INSTRUCTIONS

PROGRAM:	Test on gases evolved during combustion of materials from cables - Determination of acidity (by pH measurement) and conductivity -
CODE:	SQ-2501
VERSION:	-
STANDARD:	IEC 60754-2
COORDINATOR:	Eng. Erika Brest (ebrest@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-2501** program.

2 - Standard

IEC 60754-2: 2011 + AMD 1: 2019

3 - Tests involved

TEST
Determination of the potential corrosivity of gases evolved during the combustion of electric cables

4 - Samples

CODE	SAMPLE	QUANTITY
LEM1918-XX	Round cable - 2 x 1.5 mm ² - 10 cm	3
LEM3805-XX	Round cable - 2 x 2.5 mm ² - 10 cm	3

5 - Notes

- Being a bilateral program there is no deadline to accomplish sending results.
- The participant must submit the results using the usual report employed by their laboratory.
- The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to **IEC 60754-2**.
- Samples must be retained until the end of the program, which concludes with the submission of the final report.
- To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

PHOTOGRAPHS

DSQ-012 - REV 06 -

SQ-2501

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APPENDIX B

PARTICIPANT RESULTS (BATCH: LEM1918)

Rapor no:/TS20260513_113155

METCAB DENEY LABORATUVARI	
METCAB UYGUNLUK DEĞERLENDİRME LTD. ŞTİ. DENEY LABORATORY (SİLİVRİ) Selimpaşa, 6093. Sk. No:18, 34590 Silivri/İstanbul Web: www.metcab.org	
DENEY RAPORU TEST REPORT	
Deneysel Talep Eden Customer	SOUTH QUALITY
Deneysel Talep Tarihi/No Order Date/No	18.04.2026 / SQ-2501
Numunenin Tanımı Sample Description	LEM1918 ID 10 PROGRAM SQ-2501 CLIENT S362
Numune Kabul Tarihi Test Item Receipt Date	4.05.2026
Deneysel Yapıldığı Tarih Date of Test	13.05.2026
Uygulanan Standard/Metod Applied Standard/Method	EN 60754-2:2014+/A1:2020
Rapor No/Sayfa Sayısı Number of pages of the report	2
Açıklamalar Remarks	Proficiency Testing
Deneysel ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deneysel metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report	
 Mühür Seal	Tarih Date 30.06.2026
Deneysel yapan Experimenter	Gözetmen Supervisor
Şenol Sarı Lab. Staff	Onaylayan Approved by SEMİH GENÇEL Lab. Manager

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.

Bu rapor, sadece deneysel yapılan numune için geçerlidir.

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1/2

Rapor no: TS20260513_113155

DENEY SONUÇLARI TEST RESULTS		
DENEYLER/TESTS	UYGULANAN METOD/STANDART- APPLIED METHOD/STANDARD	SONUÇ/RESULTS
pH	EN 60754-2:2014+/A1:2020	2,54
İletkenlik, $\mu\text{S}/\text{mm}$ olarak / Conductivity, as $\mu\text{S}/\text{mm}$	EN 60754-2:2014+/A1:2020	135,97

Yeterlilik deneyi amacıyla LEM1918 ID 10 PROGRAM SQ-2501 CLIENT S362 numunesi üzerinde yukarıda belirtilen standartlara göre deneyler uygulanmış ve yukarıdaki sonuçlar alınmıştır. / For Proficiency Testing purposes, tests were performed on a specimen with a cross-sectional area of LEM1918 ID 10 PROGRAM SQ-2501 CLIENT S362 in accordance with the standards specified above, and the results presented above were obtained

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2/2

Rapor no:/TS20260513_134023

METCAB DENEY LABORATUVARI

METCAB UYGUNLUK DEĞERLENDİRME LTD. ŞTİ. DENEY LABORATORY (SİLİVRİ)
Selimpaşa, 6093. Sk. No:18, 34590 Silivri/Istanbul
Web: www.metcab.org

**DENEY RAPORU
TEST REPORT**

Deneyi Talep Eden Customer	SOUTH QUALITY
Deney Talep Tarihi/No Order Date/No	18.04.2026 / SQ-2501
Numunenin Tanımı Sample Description	LEM1918 ID 27 PROGRAM SQ-2501 CLIENT S362
Numune Kabul Tarihi Test Item Receipt Date	4.05.2026
Deneyin Yapıldığı Tarih Date of Test	13.05.2026
Uygulanan Standard/Metod Applied Standard/Method	EN 60754-2:2014+/A1:2020
Rapor No/Sayfa Sayısı Number of pages of the report	2
Açıklamalar Remarks	Proficiency Testing

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report



Deneyi yapan
Experimenter

Şenol Sarı
Lab. Staff

Gözetmen
Supervisor

Onaylayan
Approved by

SEMIH GENÇEL
Lab. Manager

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.
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1/2

Rapor no:/TS20260513_134023

DENEY SONUÇLARI TEST RESULTS		
DENEYLER/TESTS	UYGULANAN METOD/STANDART- APPLIED METHOD/STANDARD	SONUÇ/RESULTS
pH	EN 60754-2:2014+/A1:2020	2,5
İletkenlik, $\mu\text{S}/\text{mm}$ olarak / Conductivity, as $\mu\text{S}/\text{mm}$	EN 60754-2:2014+/A1:2020	153,52

Yeterlilik deneyi amacıyla LEM1918 ID 27 PROGRAM SQ-2501 CLIENT S362 numunesi üzerinde yukarıda belirtilen standartlara göre deneyler uygulanmış ve yukarıdaki sonuçlar alınmıştır. / For Proficiency Testing purposes, tests were performed on a specimen with a cross-sectional area of LEM1918 ID 27 PROGRAM SQ-2501 CLIENT S362 in accordance with the standards specified above, and the results presented above were obtained

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2/2

Rapor no:/TS20260513_162241

METCAB DENEY LABORATUVARI

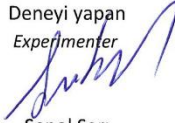
METCAB UYGUNLUK DEĞERLENDİRME LTD. ŞTİ. DENEY LABORATORY (SİLİVRİ)
Selimpaşa, 6093. Sk. No:18, 34590 Silivri/İstanbul
Web: www.metcab.org

**DENEY RAPORU
TEST REPORT**

Deneyi Talep Eden Customer	SOUTH QUALITY
Deney Talep Tarihi/No Order Date/No	18.04.2026 / SQ-2501
Numunenin Tanımı Sample Description	LEM1918 ID 46 PROGRAM SQ-2501 CLIENT S362
Numune Kabul Tarihi Test Item Receipt Date	4.05.2026
Deneyin Yapıldığı Tarih Date of Test	13.05.2026
Uygulanan Standard/Metod Applied Standard/Method	EN 60754-2:2014+/A1:2020
Rapor No/Sayfa Sayısı Number of pages of the report	2
Açıklamalar Remarks	Proficiency Testing

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report



Deneyi yapan
Experimenter

Şenol Sarı
Lab. Staff

Gözetmen
Supervisor

Onaylayan
Approved by

SEMİH GENÇEL
Lab. Manager

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Rapor no:/TS20260513_162241

DENEY SONUÇLARI TEST RESULTS		
DENEYLER/TESTS	UYGULANAN METOD/STANDART- APPLIED METHOD/STANDARD	SONUÇ/RESULTS
pH	EN 60754-2:2014+/A1:2020	2,62
İletkenlik, $\mu\text{S}/\text{mm}$ olarak / Conductivity, as $\mu\text{S}/\text{mm}$	EN 60754-2:2014+/A1:2020	124,52

Yeterlilik deneyi amacıyla LEM1918 ID 46 PROGRAM SQ-2501 CLIENT S362 numunesi üzerinde yukarıda belirtilen standartlara göre deneyler uygulanmış ve yukarıdaki sonuçlar alınmıştır. / For Proficiency Testing purposes, tests were performed on a specimen with a cross-sectional area of LEM1918 ID 46 PROGRAM SQ-2501 CLIENT S362 in accordance with the standards specified above, and the results presented above were obtained

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APPENDIX C

PARTICIPANT RESULTS (BATCH: LEM3805)

Rapor no: TS20260512_154114

METCAB DENEY LABORATUVARI	
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DENEY RAPORU TEST REPORT	
Deneysel Talep Eden Customer	SOUTH QUALITY
Deneysel Talep Tarihi/No Order Date/No	18.04.2026 / SQ-2501
Numunenin Tanımı Sample Description	LEM3805 ID 04 PROGRAM SQ-2501 CLIENT S362
Numune Kabul Tarihi Test Item Receipt Date	4.05.2026
Deneysel Yapıldığı Tarih Date of Test	12.05.2026
Uygulanan Standard/Metod Applied Standard/Method	EN 60754-2:2014+/A1:2020
Rapor No/Sayfa Sayısı Number of pages of the report	2
Açıklamalar Remarks	Proficiency Testing
Deneysel ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deneysel metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report	
 Mühür Seal Tarih Date 30.06.2026	Deneysel Yapan Experimenter  Şenol Sarı Lab. Staff
	Gözetmen Supervisor
	Onaylayan Approved by  SEMİH GENÇEL Lab. Manager

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü raporlar geçersizdir.
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1/2

Rapor no:/TS20260512_154114

DENEY SONUÇLARI TEST RESULTS		
DENEYLER/TESTS	UYGULANAN METOD/STANDART- APPLIED METHOD/STANDARD	SONUÇ/RESULTS
pH	EN 60754-2:2014+/A1:2020	5,28
İletkenlik, $\mu\text{S}/\text{mm}$ olarak / Conductivity, as $\mu\text{S}/\text{mm}$	EN 60754-2:2014+/A1:2020	0,654

Yeterlilik deneyi amacıyla LEM3805 ID 04 PROGRAM SQ-2501 CLIENT S362 numunesi üzerinde yukarıda belirtilen standartlara göre deneyler uygulanmış ve yukarıdaki sonuçlar alınmıştır. / For Proficiency Testing purposes, tests were performed on a specimen with a cross-sectional area of LEM3805 ID 04 PROGRAM SQ-2501 CLIENT S362 in accordance with the standards specified above, and the results presented above were obtained

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2/2

Rapor no:/TS20260512_111245

METCAB DENEY LABORATUVARI

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Selimpaşa, 6093. Sk. No:18, 34590 Silivri/İstanbul
Web: www.metcab.org

**DENEY RAPORU
TEST REPORT**

Deneyi Talep Eden Customer	SOUTH QUALITY
Deney Talep Tarihi/No Order Date/No	18.04.2026 / SQ-2501
Numunenin Tanımı Sample Description	LEM3805 ID 30 PROGRAM SQ-2501 CLIENT S362
Numune Kabul Tarihi Test Item Receipt Date	4.05.2026
Deneyin Yapıldığı Tarih Date of Test	12.05.2026
Uygulanan Standard/Metod Applied Standard/Method	EN 60754-2:2014+/A1:2020
Rapor No/Sayfa Sayısı Number of pages of the report	2
Açıklamalar Remarks	Proficiency Testing

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
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Deneyi yapan
Experimenter

Şenol Sarı
Lab. Staff

Gözetmen
Supervisor

Onaylayan
Approved by

SEMİH GENÇEL
Lab. Manager

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1/2

Rapor no:/TS20260512_111245

DENEY SONUÇLARI TEST RESULTS		
DENEYLER/TESTS	UYGULANAN METOD/STANDART- APPLIED METHOD/STANDARD	SONUÇ/RESULTS
pH	EN 60754-2:2014+/A1:2020	5,63
İletkenlik, $\mu\text{S}/\text{mm}$ olarak / Conductivity, as $\mu\text{S}/\text{mm}$	EN 60754-2:2014+/A1:2020	0,478

Yeterlilik deneyi amacıyla LEM3805 ID 30 PROGRAM SQ-2501 CLIENT S362 numunesi üzerinde yukarıda belirtilen standartlara göre deneyler uygulanmış ve yukarıdaki sonuçlar alınmıştır. / For Proficiency Testing purposes, tests were performed on a specimen with a cross-sectional area of LEM3805 ID 30 PROGRAM SQ-2501 CLIENT S362 in accordance with the standards specified above, and the results presented above were obtained

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2/2

Rapor no:/TS20260512_093332

METCAB DENEY LABORATUVARI

METCAB UYGUNLUK DEĞERLENDİRME LTD. ŞTİ. DENEY LABORATORY (SİLİVRİ)
Selimpaşa, 6093. Sk. No:18, 34590 Silivri/İstanbul
Web: www.metcab.org

**DENEY RAPORU
TEST REPORT**

Deneyi Talep Eden Customer	SOUTH QUALITY
Deney Talep Tarihi/No Order Date/No	18.04.2026 / SQ-2501
Numunenin Tanımı Sample Description	LEM3805 ID 42 PROGRAM SQ-2501 CLIENT S362
Numune Kabul Tarihi Test Item Receipt Date	4.05.2026
Deneyin Yapıldığı Tarih Date of Test	12.05.2026
Uygulanan Standard/Metod Applied Standard/Method	EN 60754-2:2014+/A1:2020
Rapor No/Sayfa Sayısı Number of pages of the report	2
Açıklamalar Remarks	Proficiency Testing

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
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Deneyi yapan
Experimenter

Şenol Sarı
Lab. Staff

Gözetmen
Supervisor

Onaylayan
Approved by

SEMİH GENÇEL
Lab. Manager

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.
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Rapor no:/TS20260512_093332

DENEY SONUÇLARI TEST RESULTS		
DENEYLER/TESTS	UYGULANAN METOD/STANDART- APPLIED METHOD/STANDARD	SONUÇ/RESULTS
pH	EN 60754-2:2014+/A1:2020	5,47
İletkenlik, $\mu\text{S}/\text{mm}$ olarak / Conductivity, as $\mu\text{S}/\text{mm}$	EN 60754-2:2014+/A1:2020	0,494

Yeterlilik deneyi amacıyla LEM3805 ID 42 PROGRAM SQ-2501 CLIENT S362 numunesi üzerinde yukarıda belirtilen standartlara göre deneyler uygulanmış ve yukarıdaki sonuçlar alınmıştır. / For Proficiency Testing purposes, tests were performed on a specimen with a cross-sectional area of LEM3805 ID 42 PROGRAM SQ-2501 CLIENT S362 in accordance with the standards specified above, and the results presented above were obtained

(DOK. NO : F.16.07, REV:00, REV TRH:-, YAYIN TARİHİ: 01.03.2025)

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----- END OF REPORT -----