RADIO PERFORMANCE TEST REPORT

Test Report No. : **OT-264-RWD-030**

Reception No. : **2512004460**

Applicant : **MOTREXEV CO.,LTD**

Address : **801-805, 619 Baekbeom-ro, Seo-gu, Incheon, South Korea**

Manufacturer : **MOTREXEV CO.,LTD**

Address : **801-805, 619 Baekbeom-ro, Seo-gu, Incheon, South Korea**

Type of Equipment : **RFID card Reader BOARD**

FCC ID : **2BVH9MEV-RF23A**

Model Name : **MEV-RF23A**

Multiple Model Name : **N/A**

Serial number : **N/A**

Total page of Report : **24 pages (including this page)**

Date of Incoming : **January 08, 2026**

Date of Issuing : **April 08, 2026**

SUMMARY

The equipment complies with the requirements of ***FCC CFR 47 PART 15 SUBPART C Section 15.225***

This test report contains only the result of a single test of the sample supplied for the examination.

It is not a general valid assessment of the features of the respective products of the mass-production.

This test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).

Tested by	Reviewed by	Approved by
Ji-Yun, Jeong / Engineer	Tae-Ho, Kim / Chief Engineer	Jae-Ho, Lee / Director
ONETECH Corp.	ONETECH Corp.	ONETECH Corp.

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-264-RWD-030	April 08, 2026	Initial Release	All

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1. VERIFICATION OF COMPLIANCE

Applicant : MOTREXEV CO.,LTD

Address : 801-805, 619 Baekbeom-ro, Seo-gu, Incheon, South Korea

Contact Person : WOO YOUNG, KIM / Senior HW Engineer

Telephone No. : +82-10-9040-7050

FCC ID : 2BVH9MEV-RF23A

Model Name : MEV-RF23A

Brand Name : -

Serial Number : N/A

Date : April 08, 2026

DEVICE TYPE	DXX – Low Power Communication Device Transmitter
E.U.T. DESCRIPTION	RFID card Reader BOARD
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC CFR47 Part 15 Subpart C Section 15.225
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	None
FINAL TEST WAS CONDUCTED ON	10 m Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

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2. GENERAL INFORMATION

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.225 (a) (b) (c)	Field Strength of Fundamental Emissions	Met the Limit / PASS
15.225 (d) & 15.209	Radiated Emission Limits	Met the Limit / PASS
2.1049	20 dB Bandwidth	Met the Limit / PASS
15.225(e)	FREQUENCY STABILITY WITH TEMPERATURE VARIATION / FREQUENCY STABILITY WITH VOLTAGE VARIATION	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Related Submittal(s) / Grant(s)

Original submittal only

2.3 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.225.

2.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.5 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

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3. GENERAL INFORMATION

3.1 Product Description

The MOTREXEV CO.,LTD, Model MEV-RF23A (referred to as the EUT in this report) is a RFID card Reader BOARD.

The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	RFID card Reader BOARD
TRANSMITTING FREQUENCY	13.56 MHz
MODULATION	ASK
ANTENNA TYPE	PCB Antenna
POWER REQUIREMENT	DC 5.0 V
LIST OF EACH OSC. or CRY. FREQ.(FREQ. >= 1 MHz)	27.12 MHz

3.2 Model Differences

-. None

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4. SYSTEM TEST CONFIGURATION

4.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	MOTREXEV CO.,LTD	N/A	-

4.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested: None

Model	Manufacturer	Description	Connected to
MEV-RF23A	MOTREXEV CO.,LTD	RFID card Reader BOARD (EUT)	-
80XH	Lenovo	Notebook PC	EUT
ADL45WCE	Lenovo	AC adapter	Notebook PC

4.3 Mode of operation during the test

The EUT has 13.56 MHz RF board for continuous transmission and receive mode during the test.

4.4 Equipment Modifications

-. None

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4.5 Configuration of Test System

Line Conducted Test: The EUT was connected to USB and the power of USB was connected to Notebook PC. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. The radiated emissions measurements were performed on the 10 m Semi Anechoic Chamber.

For frequencies from 150 kHz to 30 MHz measurements were made of the magnetic H field. The measuring antenna is an electrically screened loop antenna.

The frequency spectrum from 30 MHz to 1 000 MHz was scanned and maximum emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

4.6 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Antenna Construction:

The transmitter antenna of the EUT is a PCB Antenna so there is no consideration of replacement by the user.

5. PRELIMINARY TEST

5.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

5.2 Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

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6. FINAL RESULT OF MEASUREMENT

Preliminary test was done in normal operation mode. And the final measurement was selected for the maximized emission level.

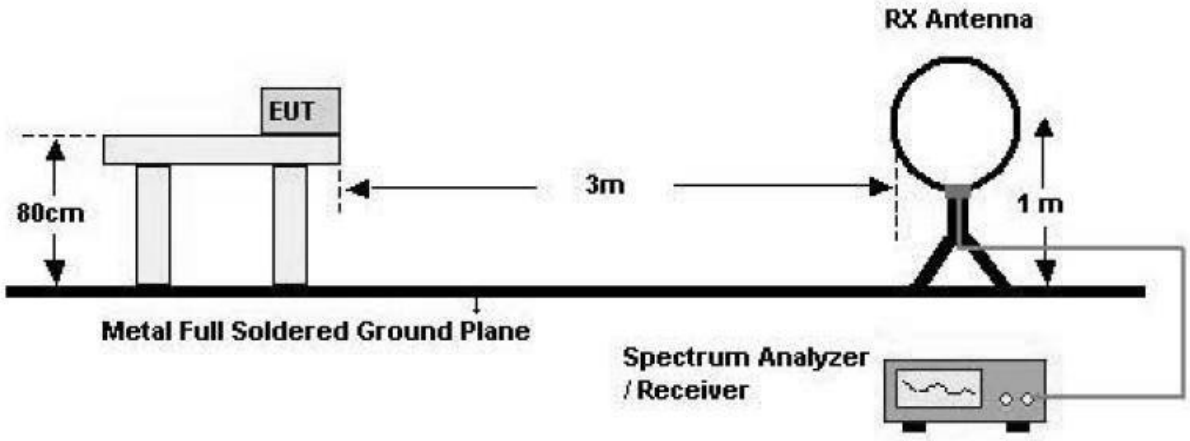
6.1 ADIATED EMISSION TEST

6.1.1 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

- Test Configuration

Below 30 MHz



6.1.2 Operation frequency band: (13.553 ~ 13.567) MHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 56 % R.H. Temperature: 25 ºC

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.225

Type of Test : Low Power Communication Device Transmitter

Result : PASSED

EUT : RFID card Reader BOARD Date: January 16, 2026 ~ January 28, 2026

Operating Condition : Transmitting Mode

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Distance : 3 m

Frequency (MHz)	Reading (dBµV)	Ant. Pol. (H/V)	Ant. Height (m)	Ant. Factor (dB/m)	Cable Loss	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)
13.56	37.26	H	1	20.8	0.45	58.51	124	65.49
13.56	26.96	V	1	20.8	0.45	48.21	124	75.79

Remark. The EUT was tested at 3 m, so conversation factor was included at above limit.

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6.1.3 Operation frequency band: Below 13.553 MHz and above 13.567 MHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 56 % R.H. Temperature: 25 ºC

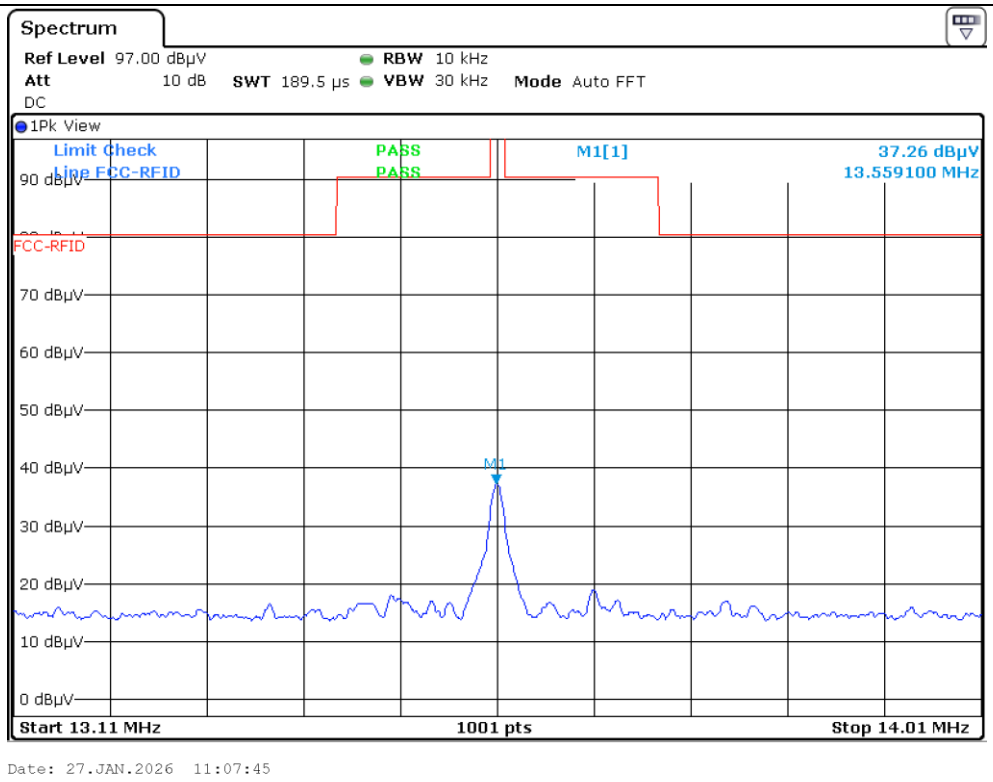
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.225

Type of Test : Low Power Communication Device Transmitter

Result : PASSED

EUT : RFID card Reader BOARD Date: January 16, 2026 ~ January 28, 2026

Operating Condition : Transmitting Mode



cc. to above test data, the field strength level of 13.56 MHz is 37.26 dBuV/m and the worst limit subject to 15.225 (b) and (c) is 80.5 dBuV/m, so the EUT meets the requirement.

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6.2 SPURIOUS EMISSION TEST

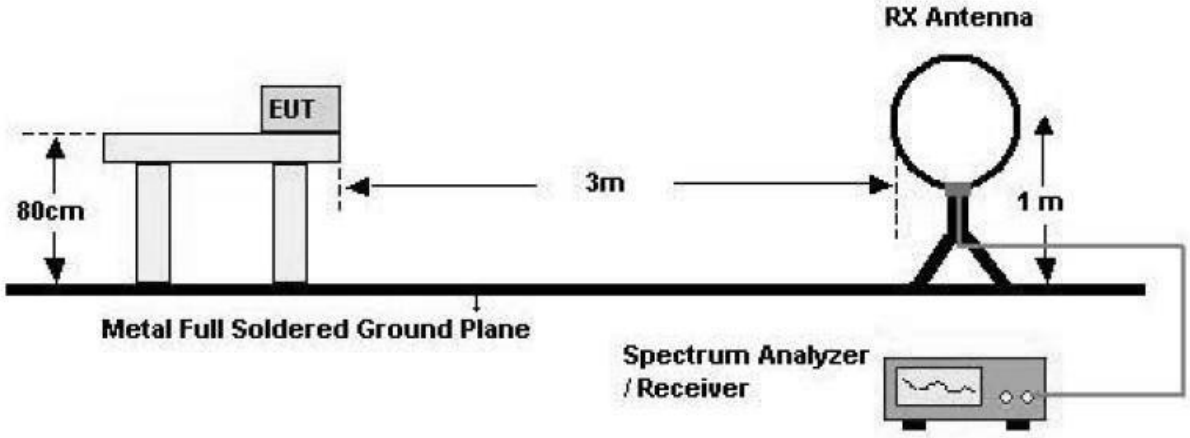
6.2.1 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

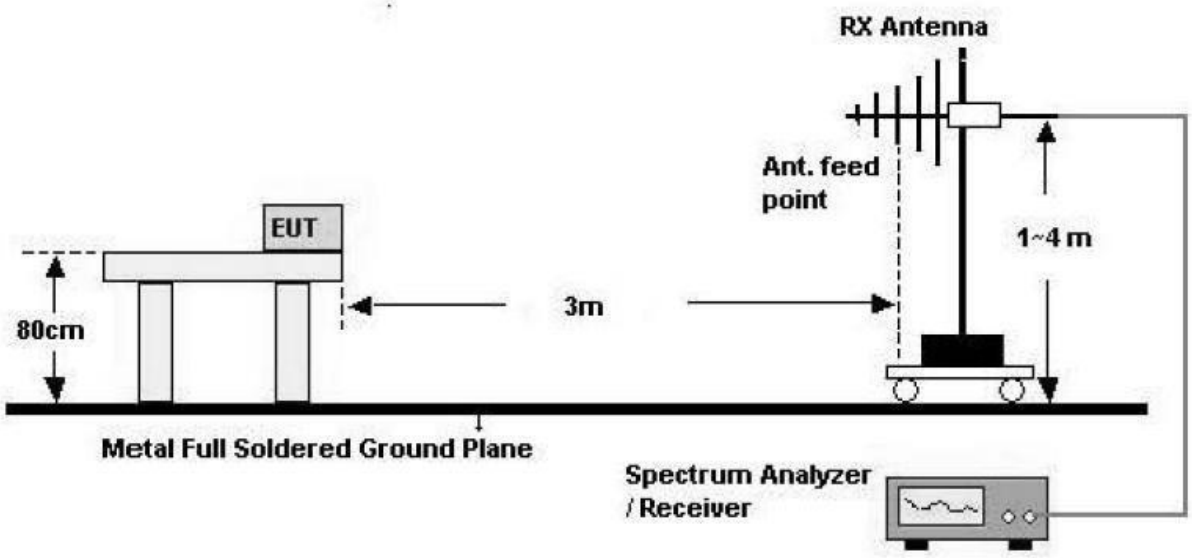
The frequency spectrum from 30 MHz to 1 000 MHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

- Test Configuration

1. Below 30 MHz



2. 30 MHz - 1 GHz



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6.2.2 Spurious Radiated Emission Below 30 MHz

Humidity Level : 56 % R.H. Temperature: 25 ºC

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

Type of Test : Low Power Communication Device Transmitter

Frequency Range : 9 kHz ~ 30 MHz

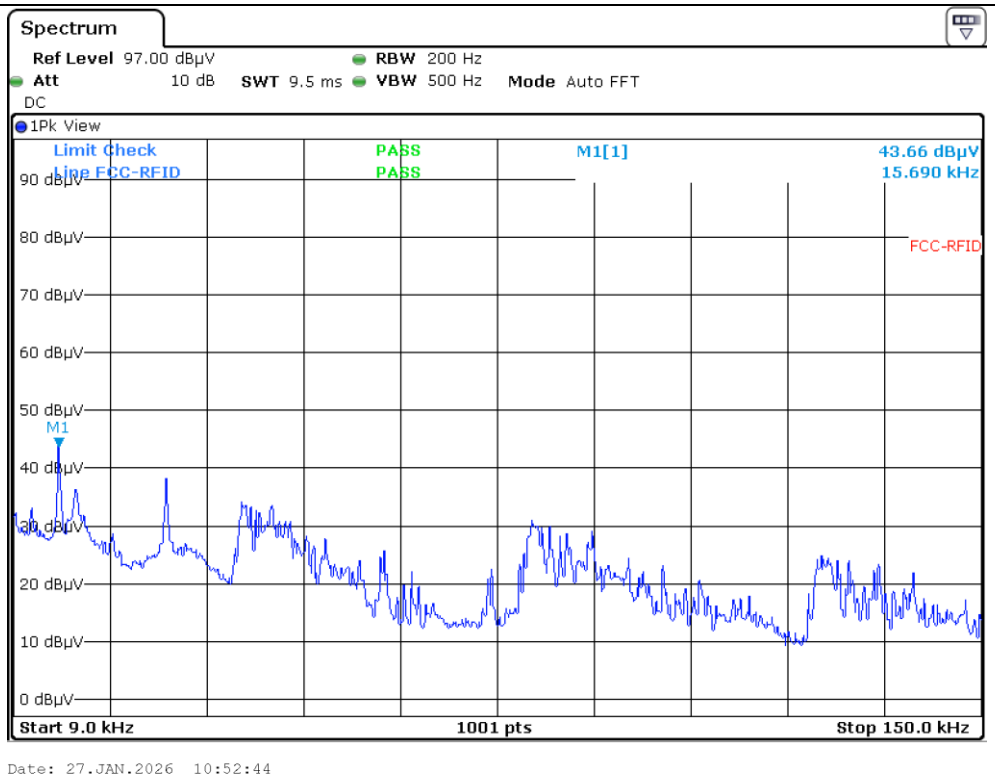
Result : PASSED

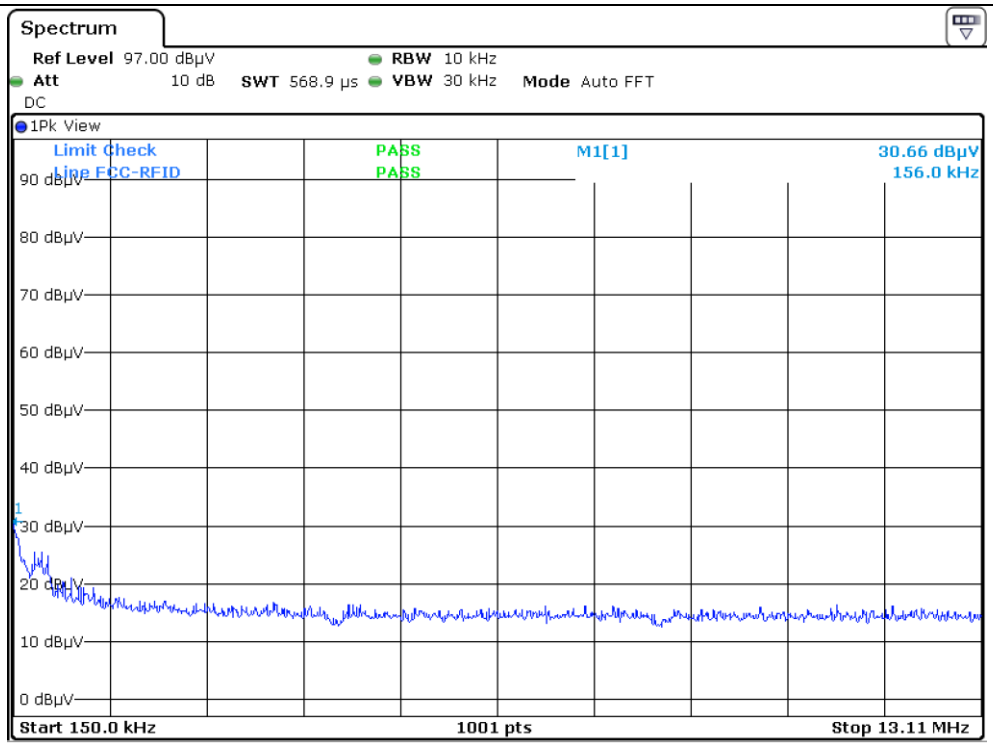
EUT : RFID card Reader BOARD Date: January 16, 2026 ~ January 28, 2026

Operating Condition : Transmitting Mode

Distance : 3 m

Frequency (MHz)	Reading (dBµV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBµV/m)	Limits (dBµV/m)	Margin (dB)
It was not observed any emissions from the EUT.									





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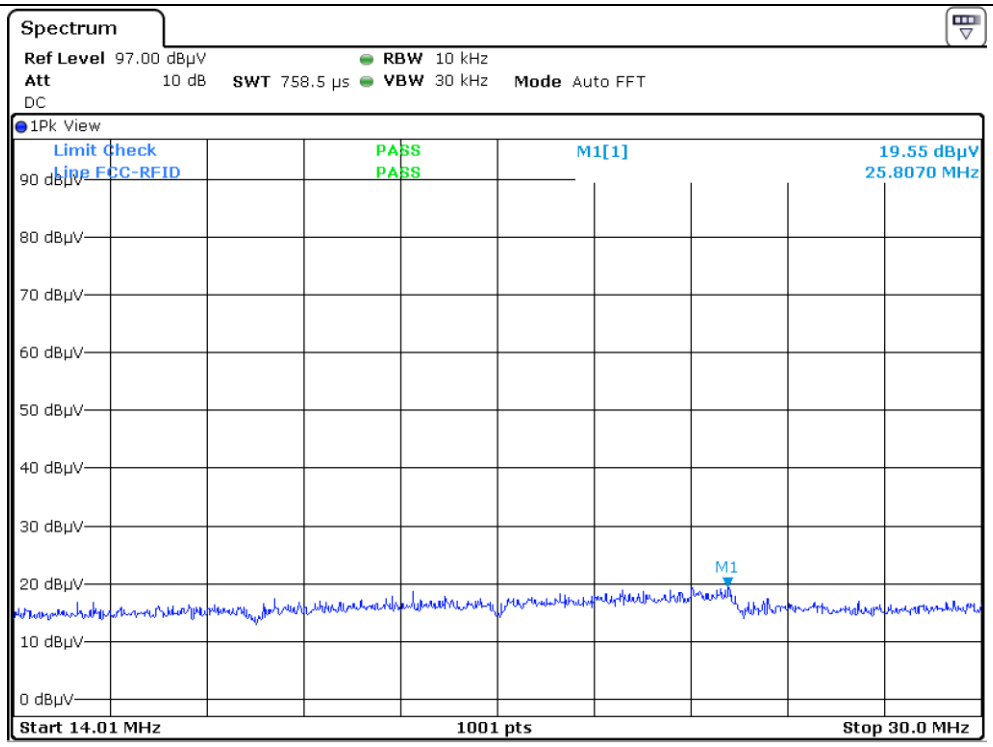

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6.2.3 Spurious Radiated Emission below 1 GHz

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 56 % R.H. Temperature: 25 ºC

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.209

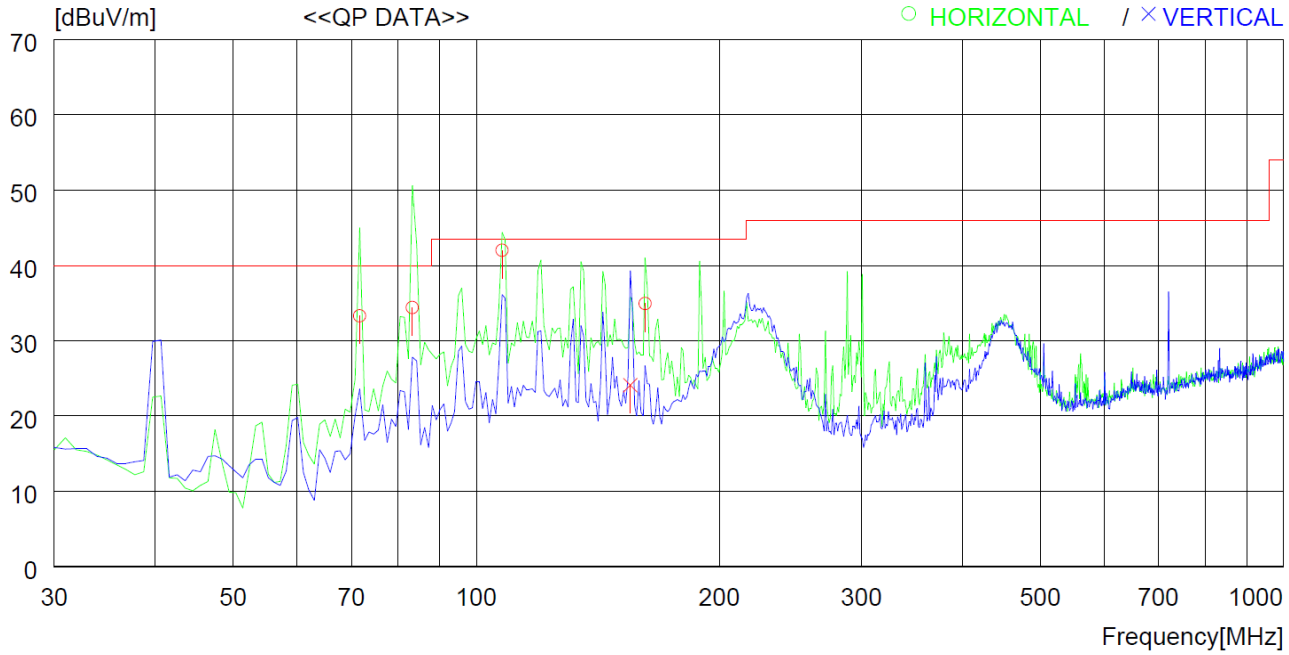
Type of Test : Low Power Communication Device Transmitter

Result : PASSED

EUT : RFID card Reader BOARD Date: January 16, 2026 ~ January 28, 2026

Operating Condition : Transmitting Mode

Distance : 3 m



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal ------										
1	71.710	50.9	13.2	1.5	32.3	33.3	40.0	6.7	400	0
2	83.350	51.8	13.2	1.7	32.3	34.4	40.0	5.6	375	334
3	107.600	55.5	16.9	1.9	32.3	42.0	43.5	1.5	312	359
4	161.920	46.8	18.0	2.3	32.2	34.9	43.5	8.6	209	0
----- Vertical ------										
5	155.130	35.5	18.5	2.3	32.2	24.1	43.5	19.4	300	0

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6.3 20 dB BANDWIDTH

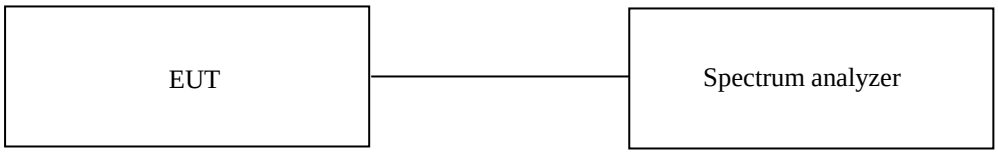
6.3.1 Operating environment

Temperature : 25 °C

Relative humidity : 56 % R.H.

6.3.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 % to 5 % of the OBW and video bandwidth (VBW) shall be approximately three times RBW. The 20 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 20 dB.



6.3.3 Test date

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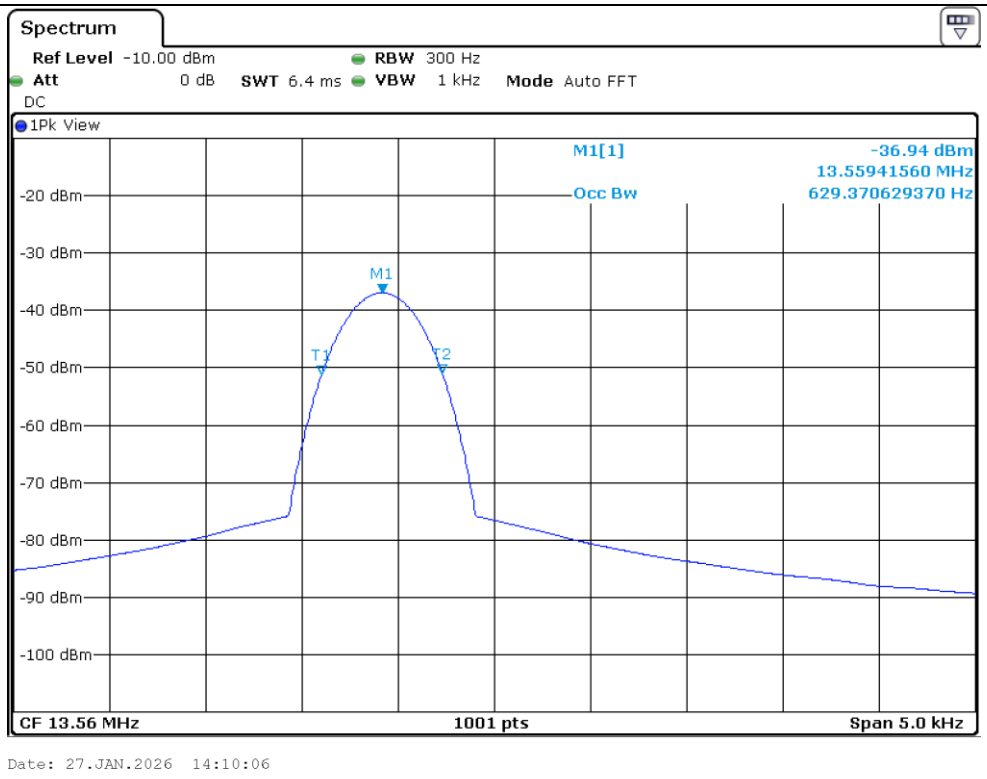
6.3.4 Test data

-. Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.215

FREQUENCY (MHz)	MEASURED VALUE (kHz)	Result
13.560 0	0.629 3	**PASS**



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6.4 FREQUENCY STABILITY WITH TEMPERATURE VARIATION

6.4.1 Operating environment

Temperature : 25 °C

Relative humidity : 56 % R.H.

6.4.2 Test set-up

Turn EUT off and set chamber temperature to -20 °C and then allow sufficient time (approximately 20 to 30 minutes after chamber reach the assigned temperature) for EUT to stabilize. Turn ON EUT and measure the EUT operating frequency and then turn off the EUT after the measurement. The temperature in the chamber was raised 10 °C step from -20 °C to +50°C. Repeat above method for frequency measurements every 10 °C step and then record all measured frequencies on each temperature step.

6.4.3 Test date

January 16, 2026 ~ January 28, 2026

6.4.4 Test data

-. Result : PASSED

Temperature (˚C)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Margin (Hz)	Limit (Hz)
-20	13,560,000	13,559,531	-469	± 1 356.00
-10		13,559,550	-450	
0		13,559,540	-460	
10		13,559,503	-497	
20		13,559,450	-550	
30		13,559,396	-604	
40		13,559,335	-665	
50		13,559,289	-711	

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6.5 FREQUENCY STABILITY WITH VOLTAGE VARIATION

6.5.1 Operating environment

Temperature : 25 °C

Relative humidity : 56 % R.H.

6.5.2 Test set-up

An external AC power supply was connected to the input of the EUT. The voltage of EUT set to 115 % of the nominal value and then was reduced to 85 % of nominal voltage. The output frequency was recorded at each step.

6.5.3 Test date

January 16, 2026 ~ January 28, 2026

6.5.4 Test data

-. Result : PASSED

Voltage (Vac)	Carrier Freq. (Hz)	Measured Freq. (Hz)	Margin (Hz)	Limit (Hz)
5.75(115 %)	13,560,000	13,559,448	-552	± 1 356.00
5.0(100 %)		13,559,449	-551	
4.25(85 %)		13,559,447	-553	

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6.6 Conducted Emission Test

Humidity Level : 56 % R.H. Temperature: 25 ºC

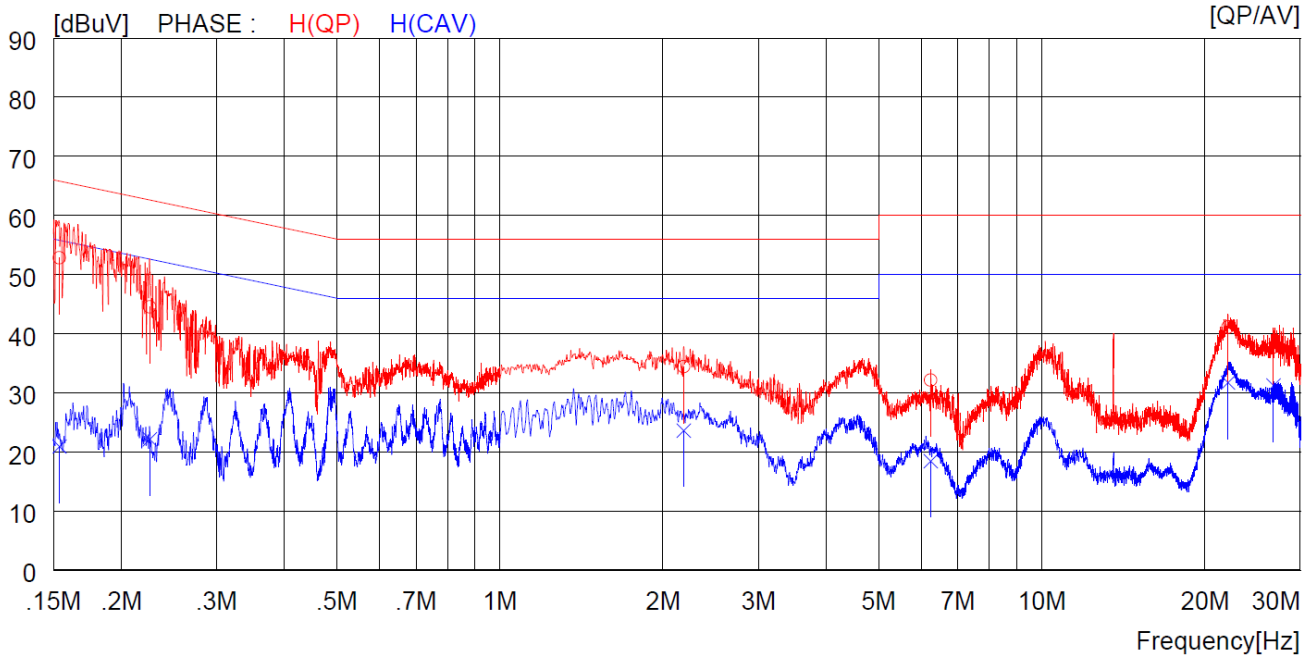
Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.207(a)

Result : PASSED

EUT : RFID card Reader BOARD Date: January 16, 2026 ~ January 28, 2026

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

Tested Line : HOT LINE



NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15400	42.7	----	10.1	52.8	----	65.8	----	13.0	----	H(QP)
2	0.22600	34.4	----	10.1	44.5	----	62.6	----	18.1	----	H(QP)
3	2.18400	24.3	----	10.1	34.4	----	56.0	----	21.6	----	H(QP)
4	6.24000	21.8	----	10.3	32.1	----	60.0	----	27.9	----	H(QP)
5	22.08000	29.9	----	11.2	41.1	----	60.0	----	18.9	----	H(QP)
6	26.77000	26.2	----	11.5	37.7	----	60.0	----	22.3	----	H(QP)
7	0.15400	----	10.8	10.1	----	20.9	----	55.8	----	34.9	H(CAV)
8	0.22600	----	12.0	10.1	----	22.1	----	52.6	----	30.5	H(CAV)
9	2.18400	----	13.5	10.1	----	23.6	----	46.0	----	22.4	H(CAV)
10	6.24000	----	8.1	10.3	----	18.4	----	50.0	----	31.6	H(CAV)
11	22.08000	----	20.5	11.2	----	31.7	----	50.0	----	18.3	H(CAV)
12	26.77000	----	19.7	11.5	----	31.2	----	50.0	----	18.8	H(CAV)

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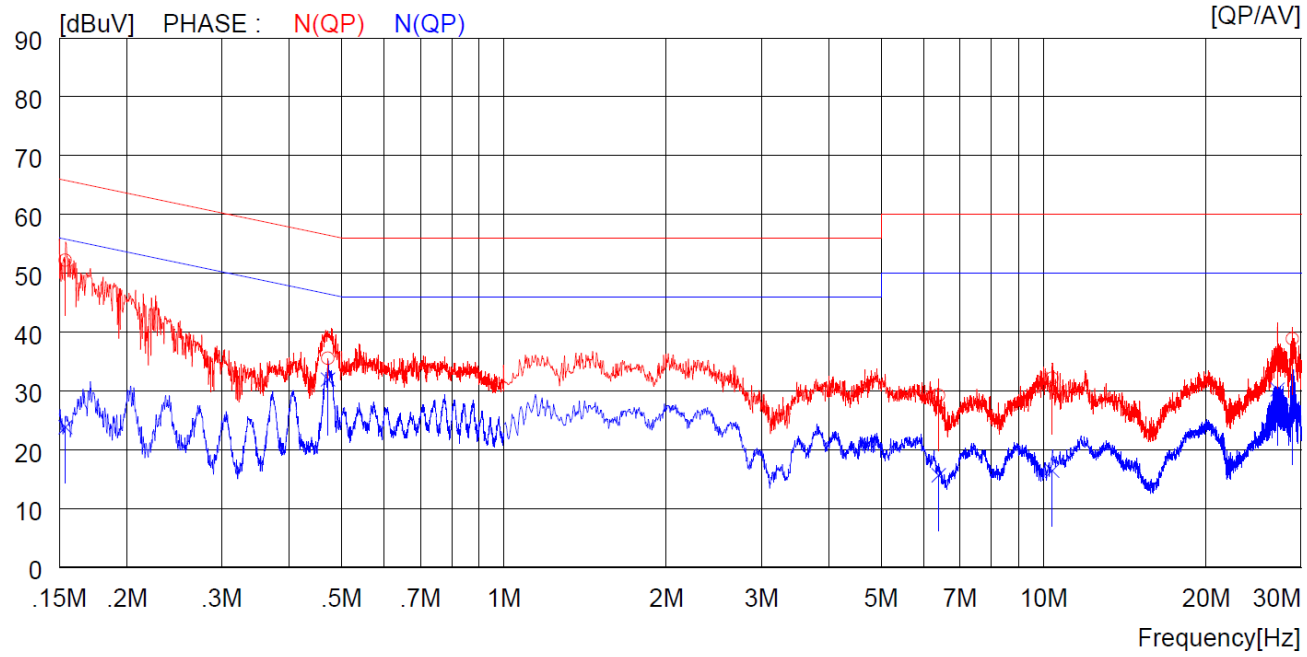
Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.15400	42.1	----	10.1	52.2	----	65.8	----	13.6	----	N(QP)
2	0.47200	25.4	----	10.1	35.5	----	56.5	----	21.0	----	N(QP)
3	6.39000	18.9	----	10.3	29.2	----	60.0	----	30.8	----	N(QP)
4	10.37000	21.5	----	10.6	32.1	----	60.0	----	27.9	----	N(QP)
5	27.12000	23.6	----	11.5	35.1	----	60.0	----	24.9	----	N(QP)
6	28.92000	27.3	----	11.5	38.8	----	60.0	----	21.2	----	N(QP)
7	0.15400	----	13.7	10.1	----	23.8	----	55.8	----	32.0	N(CAV)
8	0.47200	----	21.8	10.1	----	31.9	----	46.5	----	14.6	N(CAV)
9	6.39000	----	5.3	10.3	----	15.6	----	50.0	----	34.4	N(CAV)
10	10.37000	----	5.8	10.6	----	16.4	----	50.0	----	33.6	N(CAV)
11	27.12000	----	18.7	11.5	----	30.2	----	50.0	----	19.8	N(CAV)
12	28.92000	----	15.4	11.5	----	26.9	----	50.0	----	23.1	N(CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

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7. FIELD STRENGTH CALCULATION

Meter readings are compared to the specification limit correcting for antenna and cable losses.

+	Meter reading	(dBμV)
-	Amplifier Gain	(dB)
+	Cable Loss	(dB)
-	Antenna Factor	(dB/m)
=	Corrected Result	(dBμV/m)

Margin (dB)		
	Specification Limit	(dBuV/m)
-	Corrected Result	(dBuV/m)
=	dB Relative to Spec	(± dB)

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8. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
FSV30	Rohde & Schwarz	SIGNAL ANALYZER	101372	Jul. 02, 2025 (1Y)
FSV40-N	Rohde & Schwarz	SPECTRUM ANALYZER	101457	Jan. 13, 2026 (1Y)
SH-242	ESPEC	Temperature & Humidity Chamber	0093011138	Jan. 13, 2026 (1Y)
ESR	Rohde & Schwarz	EMI TEST RECEIVER	101470	Mar. 11, 2025(1Y)
FMZB 1519-60D	Schwarzbeck	Active Magnetic Loop Antenna	00113	Jan. 07, 2025(2Y)
HLP-2008	TDK RF Solutions	Hybrid Antenna	131314	Mar. 01, 2025(2Y)
310N	Sonoma Instrument	Amplifier	312545	Mar. 11, 2025(1Y)
CO3000	Innco Systems GmbH	Controller	CO3000/904 /37211215/L	N/A
DT3000	Innco Systems GmbH	Turn Table	DT3000/093	N/A
MA - 4000XPET	Innco Systems GmbH	Antenna Master	MA4000/509/ 37211215/L	N/A
ESR 3	Rohde & Schwarz	EMI TEST RECEIVER	102602	Mar. 11, 2025(1Y)
ESH3-Z2	Rohde & Schwarz	Pulse Limiter	100655	Mar. 11, 2025(1Y)
NSLK8126	Schwarzbeck	V - LISN (4*16/25A)	8126404	Mar. 11, 2025(1Y)
ZUP36-6	TDK-Lambda	DC Power Supply	6MJ-850Z16-0014	Jan. 12, 2026 (1Y)

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