



RF MEASUREMENT REPORT

FCC ID: 2ANZQ-RFC23HF
Applicant: Contrinex AG
Product: RLH-C23TA-NHV
Model No.: RLH-C23TA-NHV-224
Brand Name: Contrinex
FCC Classification: Part 15 Low Power Communication Device Transmitter (DXX)
FCC Rule Part(s): Part 15 Subpart C (Section 15.225)
Result: Complies
Received Date: 2026-06-24
Test Date: 2026-07-03~2026-07-07

Reviewed By:

Paddy Chen

Paddy Chen

Approved By:

Chenz Ker

Chenz Ker



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2606TW0125-U2	V1.0	Original Report	2026-07-31	Valid

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1. General Information

1.1. Applicant

Contrinex AG

Route du Paqui 3, CH-1720 Corminboeuf, Switzerland

1.2. Manufacturer

Contrinex AG

Route du Paqui 3, CH-1720 Corminboeuf, Switzerland

1.3. Testing Facility

☒	Test Site 1 - MRT Taiwan Laboratory
	Laboratory Location No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261
☐	Test Site 2 - MRT Taiwan Laboratory
	Laboratory Location No. 64, Wenming Rd , Guishan Dist , Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	RLH-C23TA-NHV
Model No.	RLH-C23TA-NHV-224
EUT Identification No.	#1-1
RFID Specification	13.56 MHz
Operating Temperature	-25 ~ 80 °C
Power Type	DC 24V
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Radio Specification

Frequency Range	13.56 MHz
Channel Number	1
Type of modulation	ASK

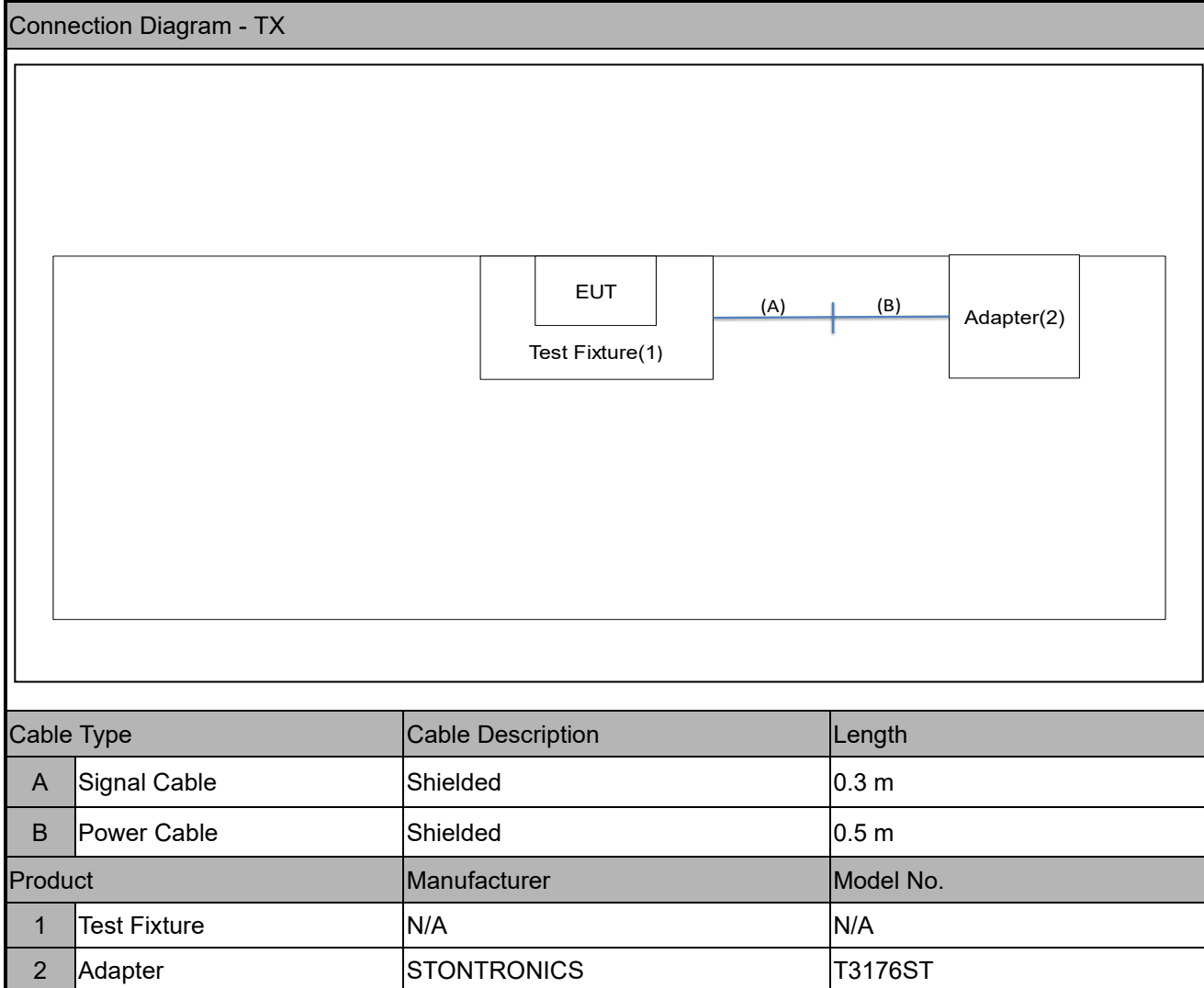
2. Test Configuration

2.1. Test Mode

Mode 1: Transmitter at 13.56 MHz

2.2. Test Configuration and Software

The device was tested per the guidance ANSI C63.10-2020 that was used to reference the appropriate EUT setup for radiated spurious emissions and AC line conducted emission testing.



2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.225
- ANSI C63.10-2020
- ANSI C63.10-2020/Cor1-2023
- ANSI C63.10a-2024

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35 °C
Relative Humidity	20 ~ 75 %RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of this device is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2027/4/15	TW-AC2
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00086	1 year	2026/11/13	TW-AC2
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2027/3/4	TW-AC2
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2027/3/3	TW-SR2
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2027/4/14	TW-SR2
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2027/5/13	TW-SR2

Software	Version	Function
e3	9.160520a	EMI Test Software

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 150kHz~30MHz: $\pm 2.53\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz ~ 1GHz: $\pm 4.25\text{dB}$ 1GHz ~ 40GHz: $\pm 4.45\text{dB}$
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 3.3\%$

6. Test Result

6.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
15.225 (a), (b), (c)	In-Band Emission	Radiated	Pass
15.225 (d)	Out-Band Emission		Pass
15.215 (c)	20 dB Bandwidth		Pass
15.225 (e)	Frequency Tolerance		Pass
15.207	AC Conducted Emissions 150 kHz-30 MHz	Line Conducted	Pass

6.2. In-band Emission Measurement

6.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.225		
Frequency (MHz)	Distance (m)	Level ($\mu\text{V}/\text{m}$)
13.553 ~ 13.567	30	15848
13.410 ~ 13.553, 13.567 ~ 13.710	30	334
13.110 ~ 13.410, 13.710 ~ 14.010	30	106
Note 1: The lower limit shall apply at the transition frequency.		
Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.		
Note 3: E field strength (dB $\mu\text{V}/\text{m}$) = $20\log$ E field strength ($\mu\text{V}/\text{m}$)		

6.2.2. Test Procedure

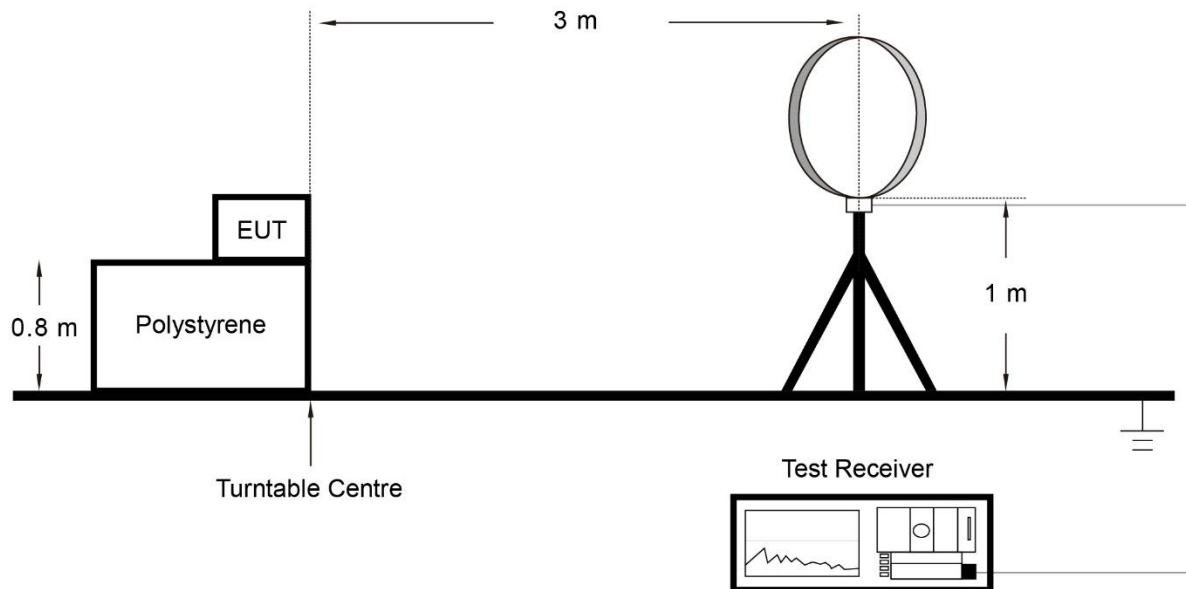
ANSI C63.10 - 2020 - Section 6.4

6.2.3. Test Setting

1. RBW = 9 kHz or 10 kHz
2. VBW = $3 \times$ RBW
3. Detector = Peak
4. Trace mode = Max hold
5. Sweep = Auto couple
6. Allow the trace to stabilize

6.2.4. Test Setup

9 kHz ~ 30 MHz Test Setup:



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Out-band Emission Measurement

6.3.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level ($\mu\text{V}/\text{m}$)
0.009 ~ 0.490	300	2400/F (kHz)
0.490 ~ 1.705	30	24000/F (kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dB $\mu\text{V}/\text{m}$) = 20log E field strength ($\mu\text{V}/\text{m}$)

6.3.2. Test Procedure

ANSI C63.10 - 2020 - Section 6.3 (General Requirements)

ANSI C63.10 - 2020 - Section 6.4 (Standard test method below 30 MHz)

ANSI C63.10 - 2020 - Section 6.5 (Standard test method above 30 MHz to 1 GHz)

6.3.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz

Peak Measurement

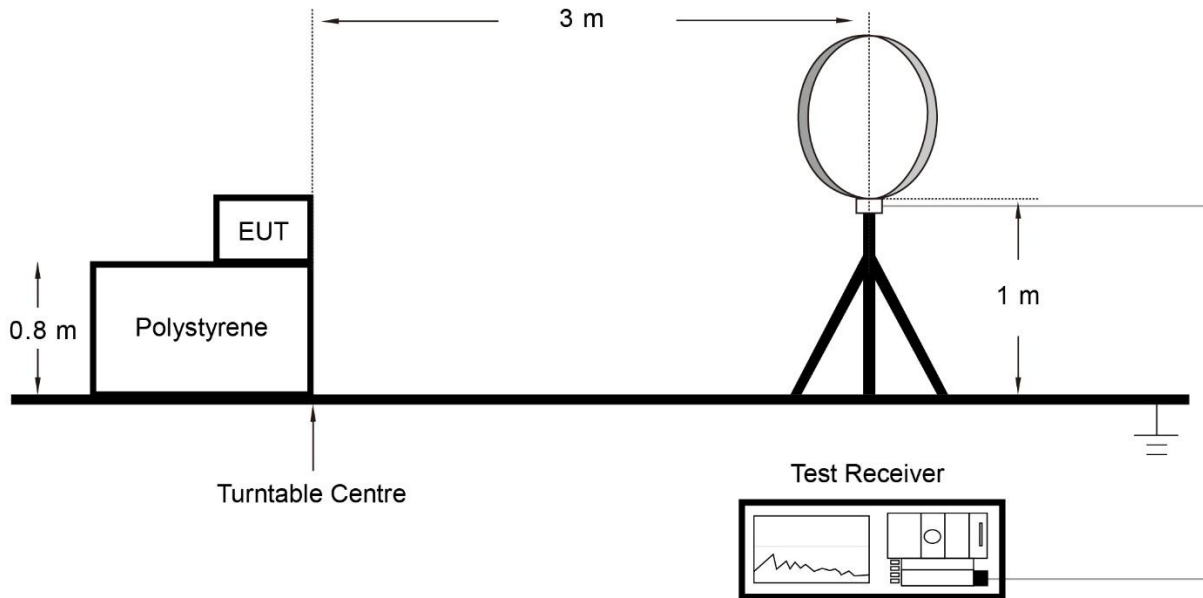
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = $3 \times \text{RBW}$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

Quasi-Peak Measurement

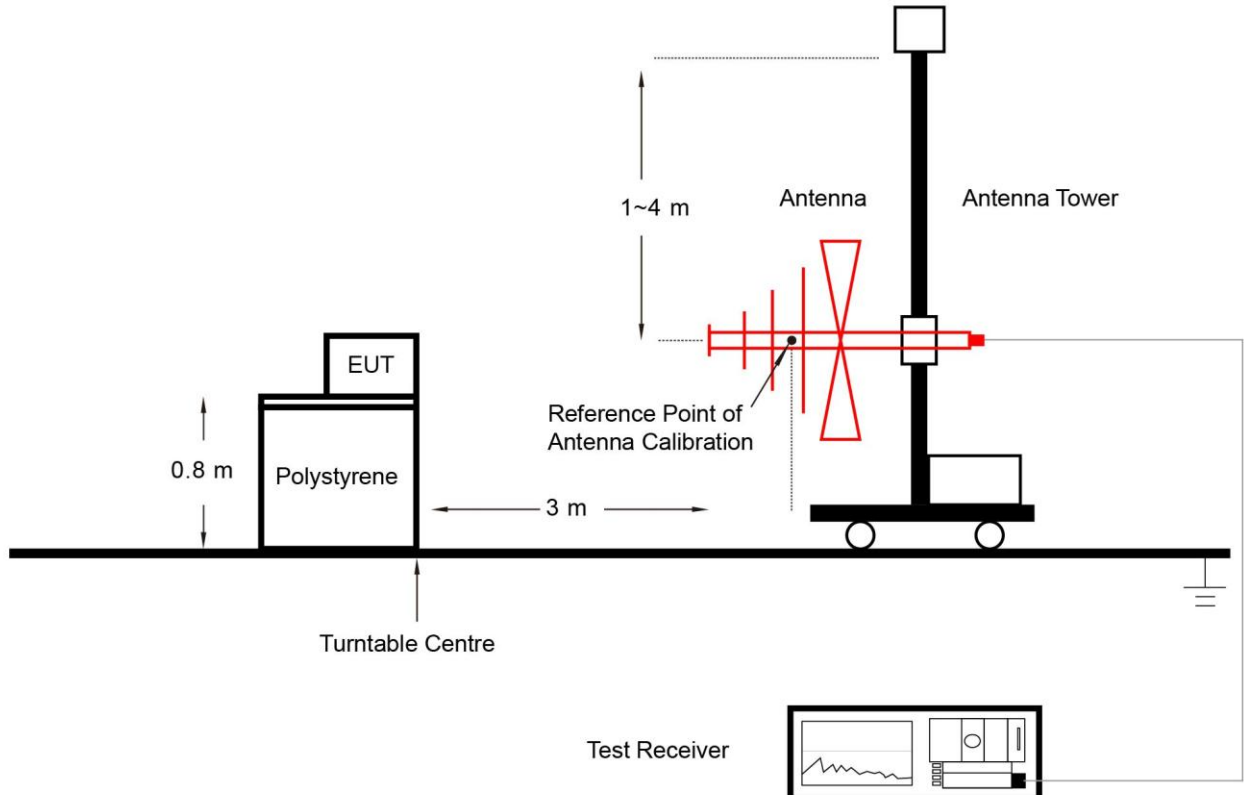
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1 MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

6.3.4. Test Setup

9 kHz ~ 30 MHz Test Setup:



Above 30 MHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. 20 dB Bandwidth Measurement

6.4.1. Test Limit

The occupied bandwidth is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequency.

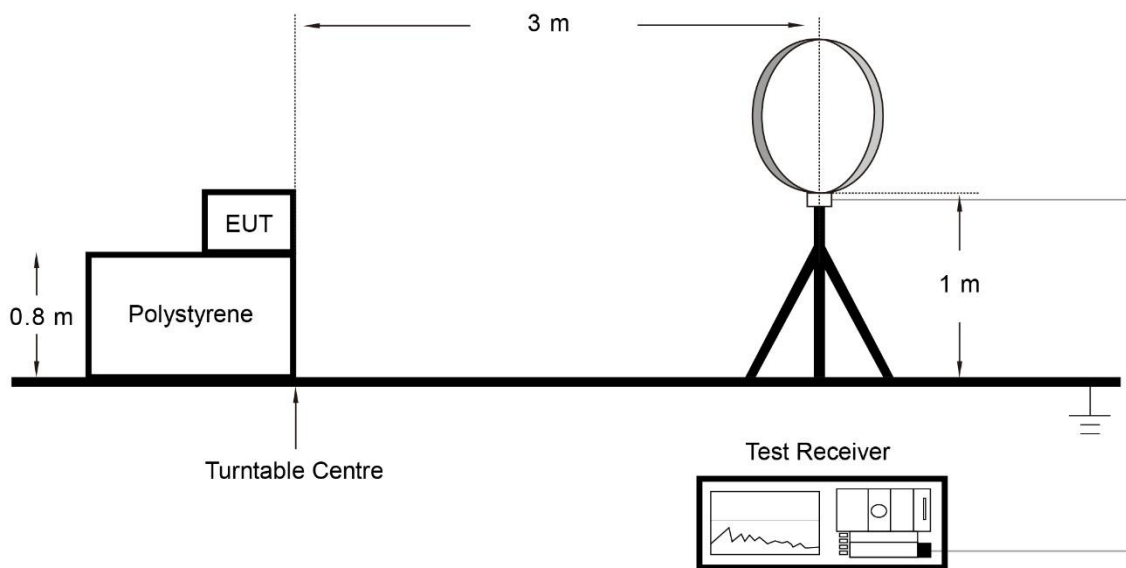
6.4.2. Test Procedure

ANSI C63.10-2020 - Section 6.9.2

6.4.3. Test Setting

1. Set RBW $\geq$ 1% to 5% of the 20 dB bandwidth
2. VBW = approximately three times RBW
3. Span = approximately 2 to 5 times the 20 dB bandwidth
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

6.5. Frequency Tolerance Measurement

6.5.1. Test Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ ($\pm 100\text{ppm}$) of the operating frequency.

6.5.2. Test Procedure

ANSI C63.10-2020 - Section 6.8

6.5.3. Test Setting

Frequency Stability Under Temperature Variations:

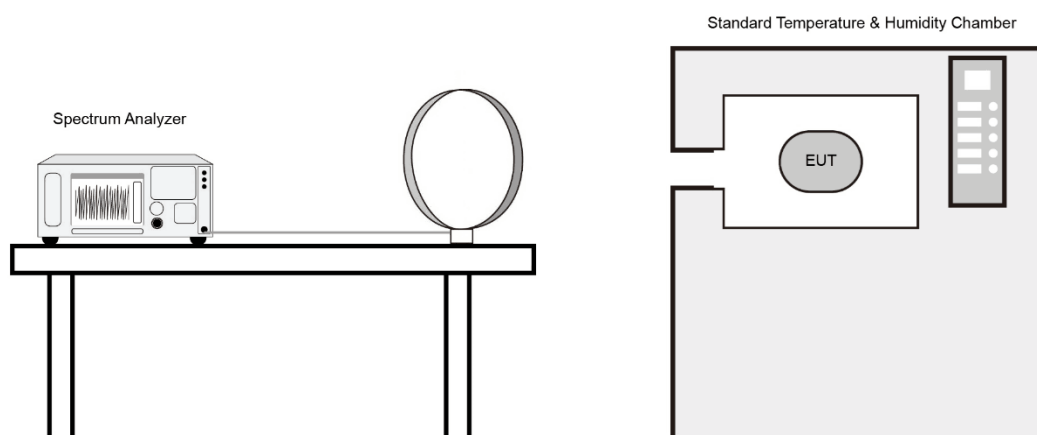
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change. For hand-carried battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.4.

6.6. AC Conducted Emissions Measurement

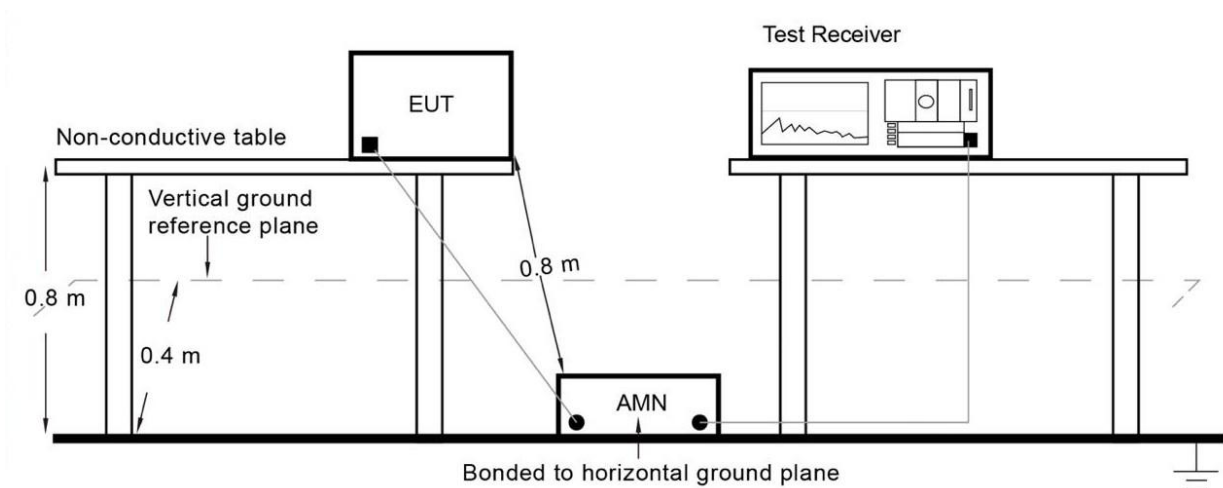
6.6.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

6.6.2. Test Setup



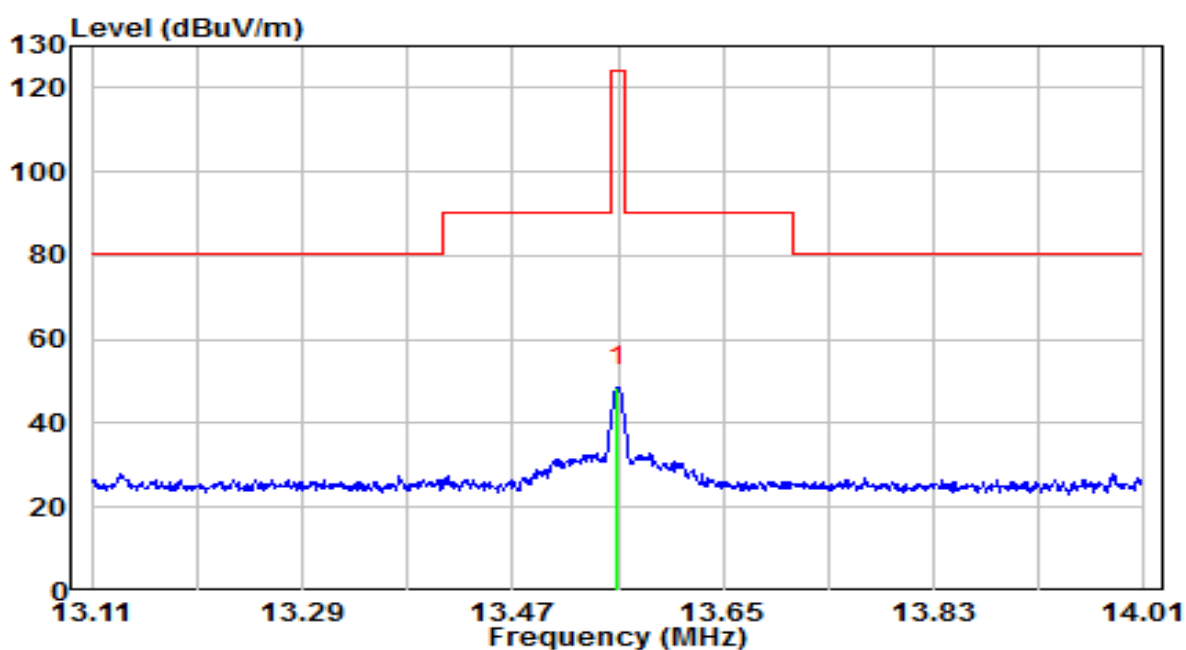
6.6.3. Test Result

Refer to Appendix A.5.

Appendix A - Test Result

A.1 In-band Emission Test Result

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	FMZB 1519B	Temp. / Humidity	24°C /55%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_15.225		

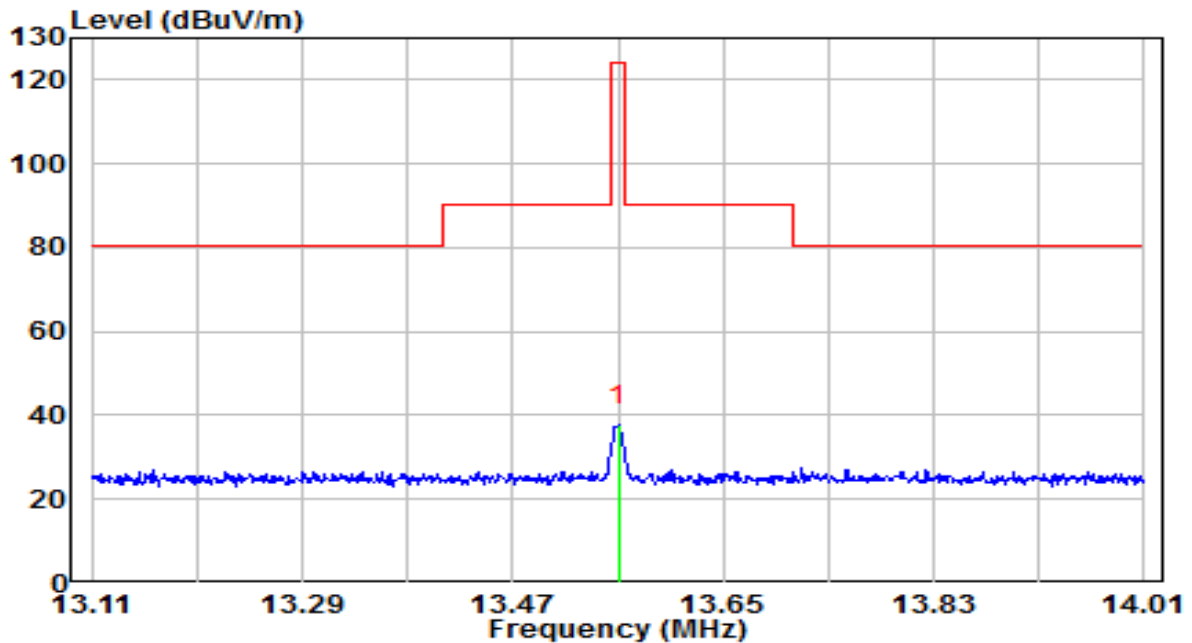


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	13.559	27.92	20.75	48.67	-75.33	124.00	100	255	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	FMZB 1519B	Temp. / Humidity	24°C /55%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_15.225		



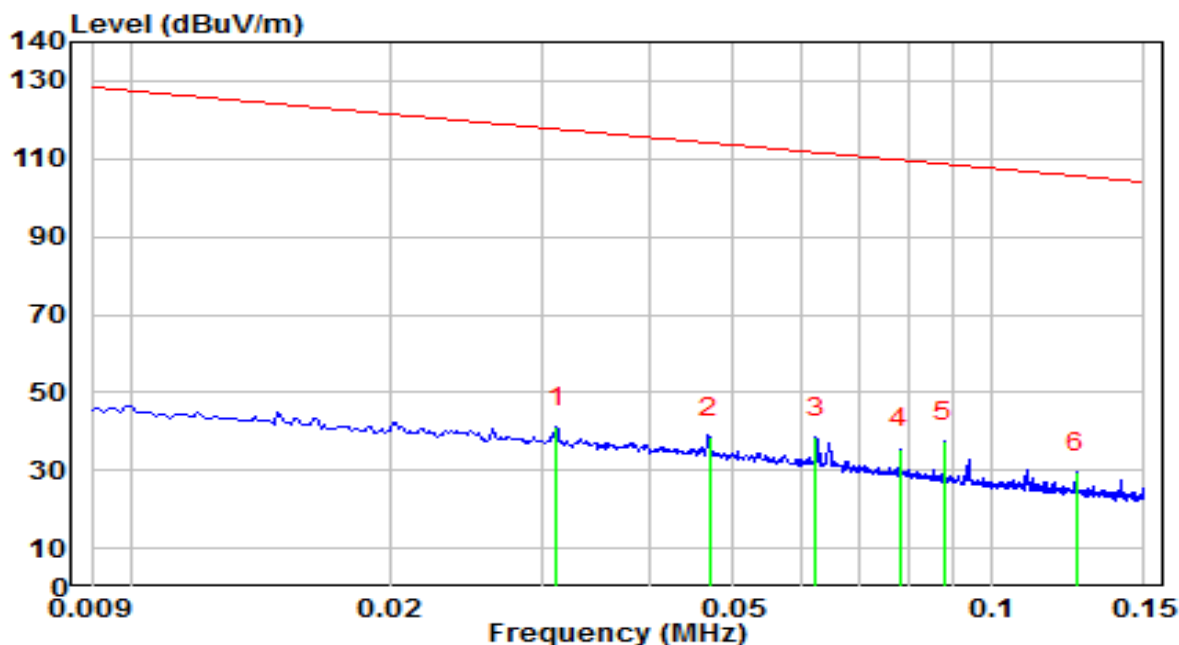
No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	13.561	17.01	20.75	37.76	-86.24	124.00	100	177	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

A.2 Out-Band Emission Test Result

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	FMZB 1519B	Temp. / Humidity	24°C /55%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_9KHz-30MHz		

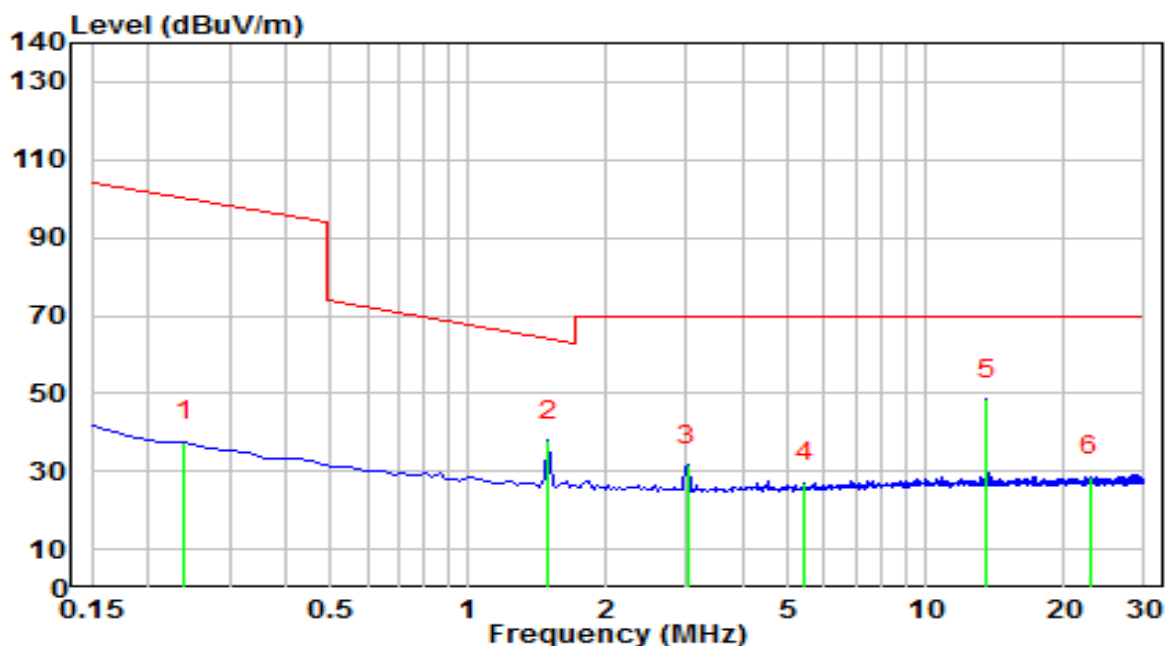


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.031	22.30	18.64	40.95	-76.78	117.73	100	207	Peak
2	0.047	19.39	19.12	38.51	-75.65	114.17	100	167	Peak
3	0.062	19.55	18.82	38.37	-73.32	111.69	100	345	Peak
4	0.078	17.33	18.32	35.66	-74.09	109.75	100	177	Peak
5	* 0.088	19.38	18.01	37.39	-71.32	108.71	100	234	Peak
6	0.125	11.85	17.67	29.52	-76.14	105.66	100	290	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	FMZB 1519B	Temp. / Humidity	24°C /55%
Polarity	Face On	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_9KHz-30MHz		

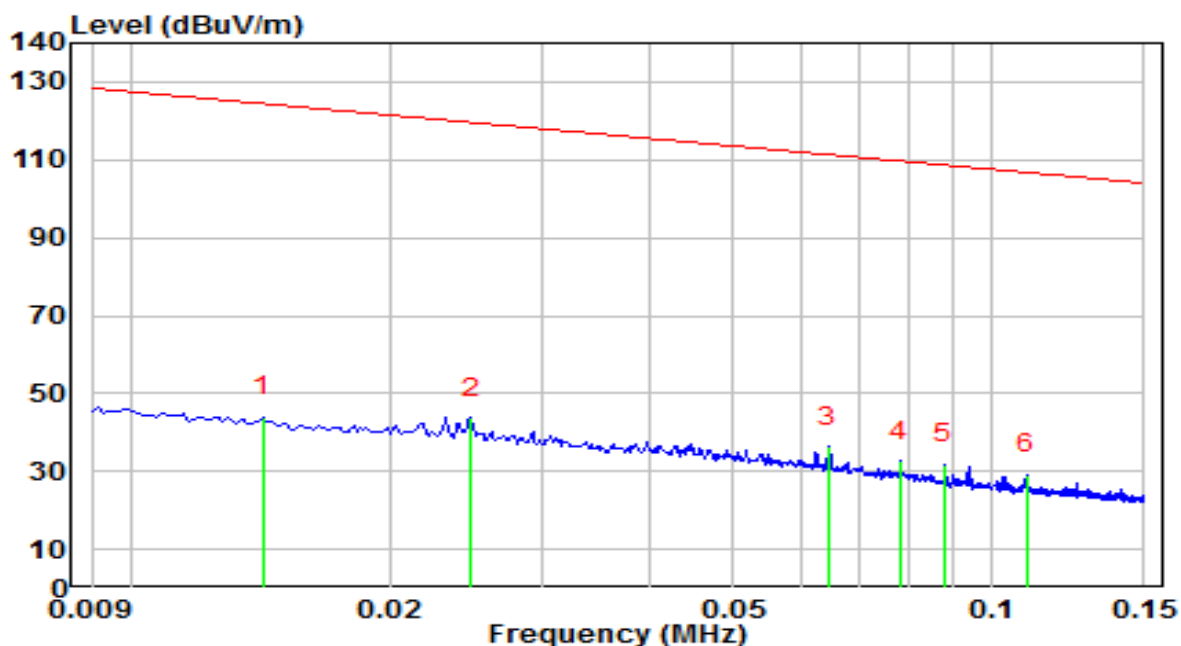


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.240	19.89	17.86	37.74	-62.27	100.01	100	293	Peak
2	* 1.493	19.89	17.99	37.89	-26.26	64.15	100	176	Peak
3	3.016	13.46	18.04	31.51	-37.99	69.50	100	167	Peak
4	5.433	8.29	18.73	27.01	-42.49	69.50	100	47	Peak
5	13.553	27.67	20.75	48.41	N/A	N/A	100	176	Peak
6	22.926	6.80	21.76	28.55	-40.95	69.50	100	320	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. This frequency is 13.553MHz RFID operating frequency.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	FMZB 1519B	Temp. / Humidity	24°C /55%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_9KHz-30MHz		

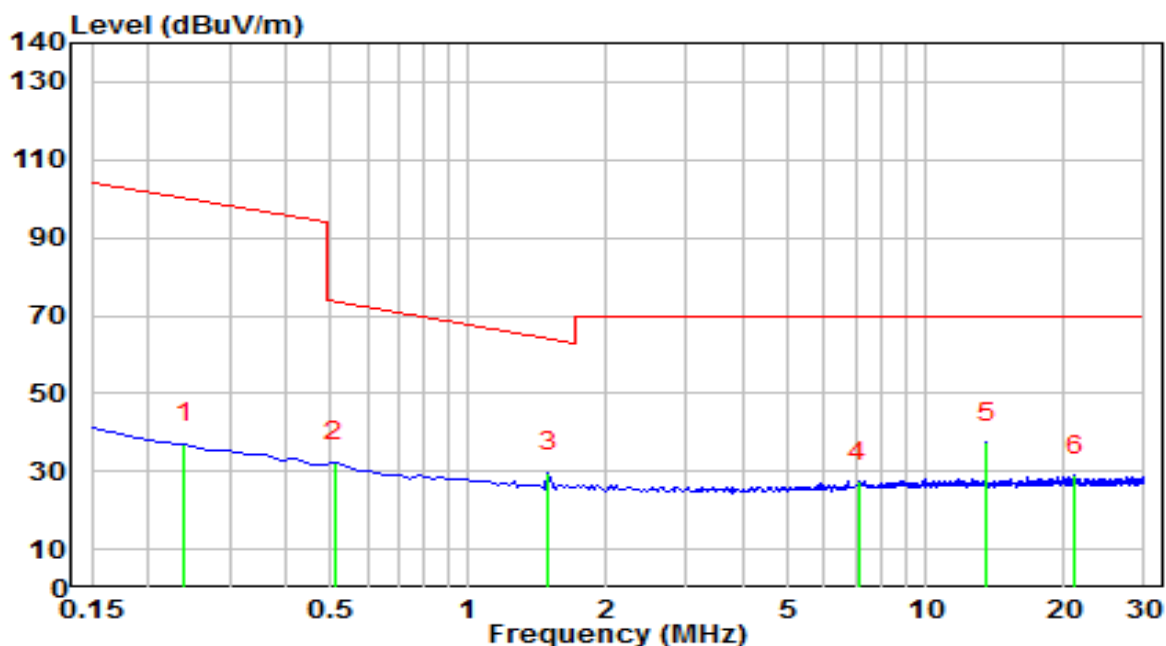


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.014	26.56	17.50	44.07	-80.47	124.53	100	320	Peak
2	0.025	25.48	18.24	43.72	-75.99	119.70	100	159	Peak
3	* 0.065	17.58	18.75	36.33	-75.07	111.40	100	3	Peak
4	0.078	14.41	18.32	32.73	-77.02	109.75	100	106	Peak
5	0.088	13.87	18.01	31.88	-76.83	108.71	100	259	Peak
6	0.109	11.43	17.64	29.07	-77.75	106.82	100	106	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	FMZB 1519B	Temp. / Humidity	24°C /55%
Polarity	Face Off	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_9KHz-30MHz		

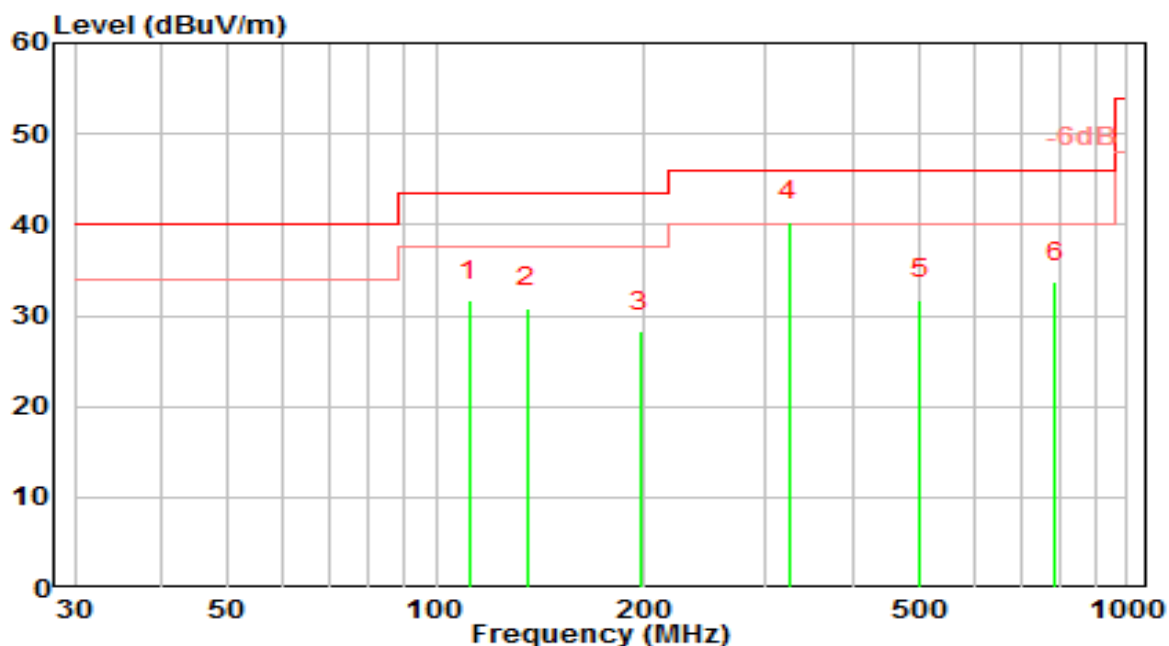


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	0.240	19.34	17.86	37.20	-62.82	100.01	100	236	Peak
2	0.508	14.40	17.96	32.36	-41.12	73.48	100	14	Peak
3	1.493	11.76	17.99	29.76	-34.39	64.15	100	202	Peak
4	7.135	8.13	19.29	27.43	-42.07	69.50	100	10	Peak
5	13.553	16.68	20.75	37.43	N/A	N/A	100	176	Peak
6	* 21.194	7.35	21.70	29.04	-40.46	69.50	100	42	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. This frequency is 13.553MHz RFID operating frequency.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	VULB 9162	Temp. / Humidity	24°C /55%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_30MHz-1GHz		

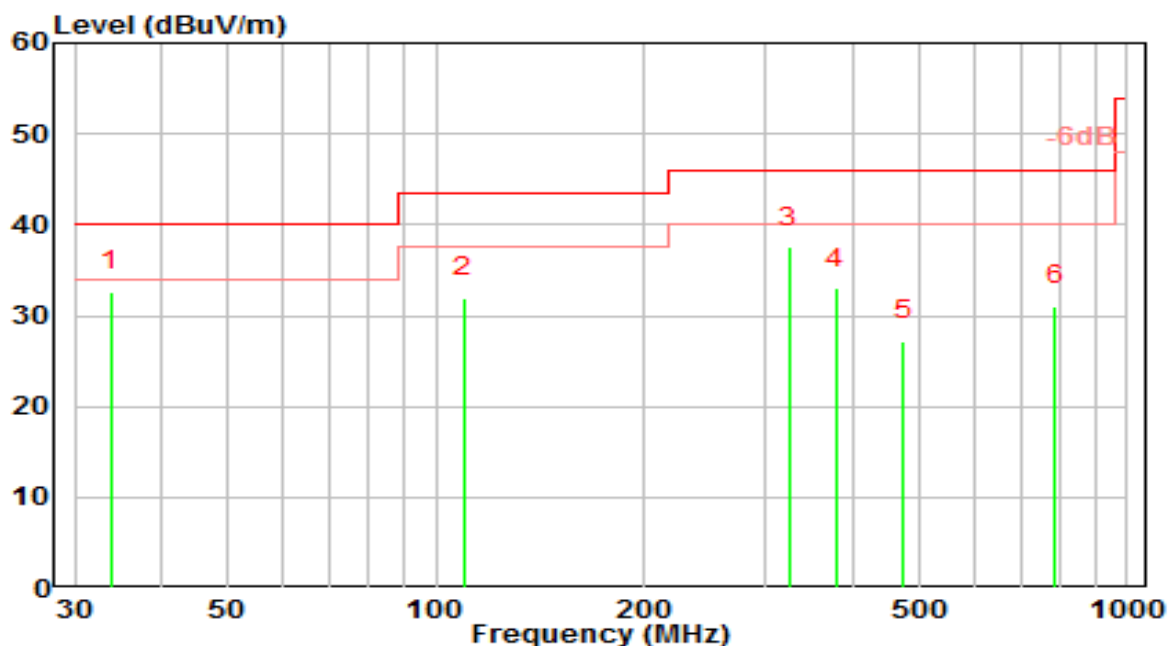


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	111.480	13.60	18.05	31.66	-11.84	43.50	150	303	QP
2	135.730	15.94	14.93	30.88	-12.62	43.50	150	287	QP
3	197.810	10.35	17.88	28.23	-15.27	43.50	150	50	QP
4	* 324.880	18.89	21.43	40.31	-5.69	46.00	100	127	QP
5	501.420	6.85	24.93	31.78	-14.22	46.00	150	272	QP
6	786.600	4.31	29.32	33.63	-12.37	46.00	100	295	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	VULB 9162	Temp. / Humidity	24°C /55%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_30MHz-1GHz		

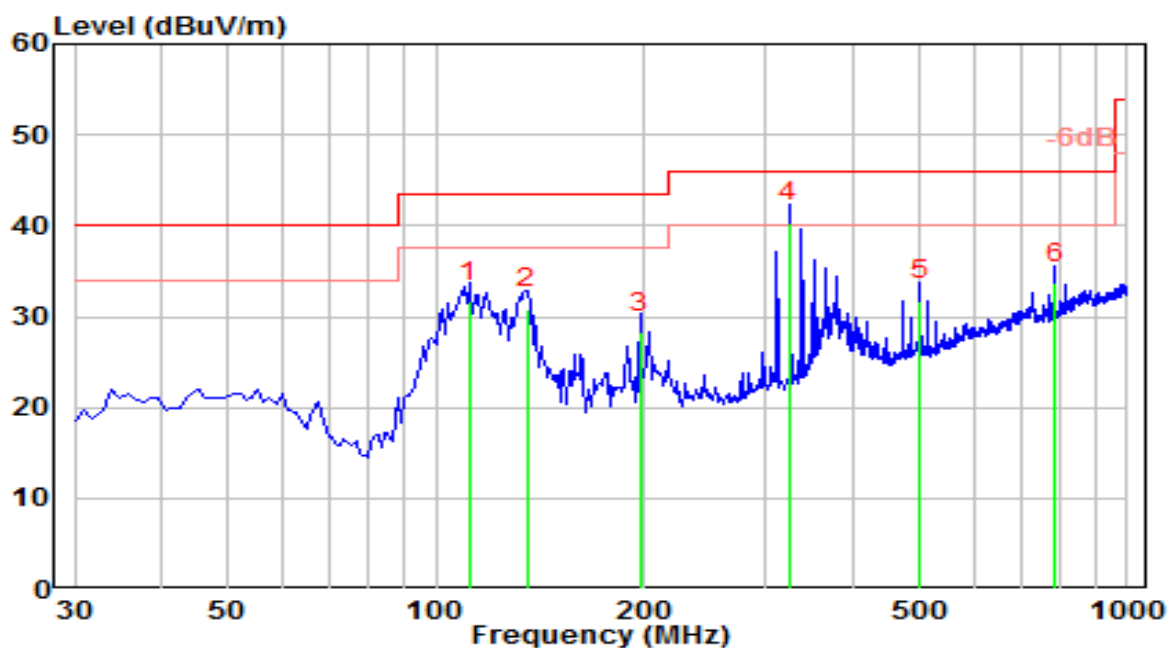


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	33.880	15.27	17.38	32.65	-7.35	40.00	100	328	QP
2		109.540	13.66	18.30	31.96	-11.54	43.50	100	350	QP
3		324.880	16.14	21.43	37.57	-8.43	46.00	100	0	QP
4		379.200	10.19	22.81	32.99	-13.01	46.00	100	47	QP
5		474.260	2.95	24.26	27.22	-18.78	46.00	100	354	QP
6		786.600	1.71	29.32	31.03	-14.97	46.00	100	164	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	VULB 9162	Temp. / Humidity	24°C /55%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_30MHz-1GHz		

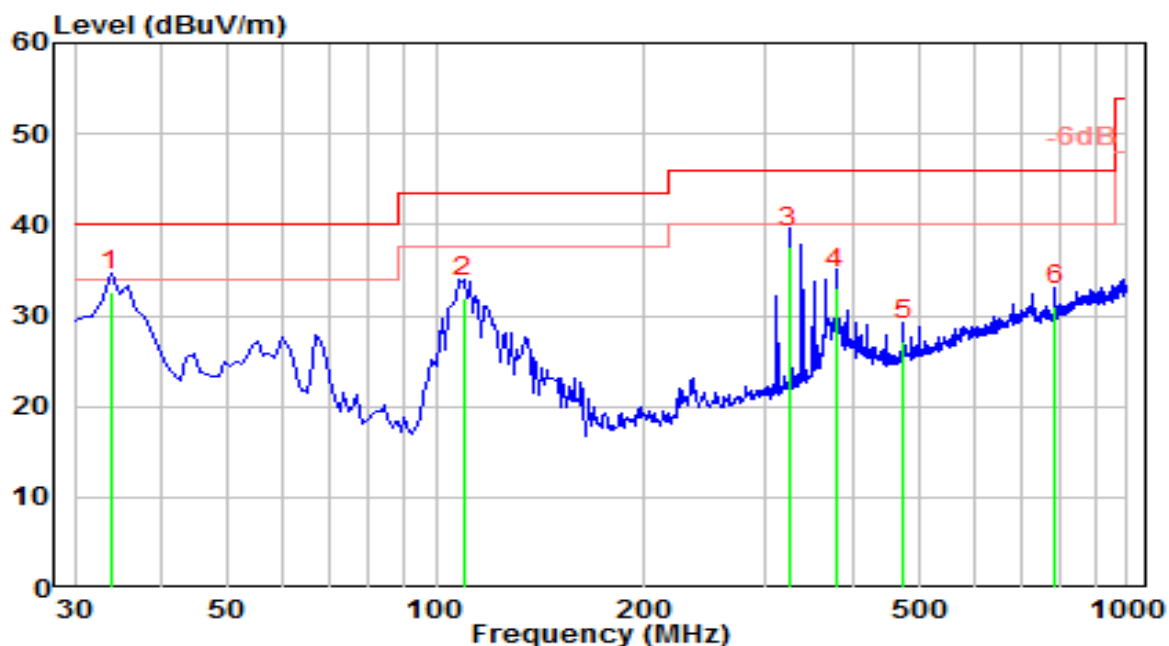


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	111.480	13.60	18.05	31.66	-11.84	43.50	150	303	QP
2	135.730	15.94	14.93	30.88	-12.62	43.50	150	287	QP
3	197.810	10.35	17.88	28.23	-15.27	43.50	150	50	QP
4	* 324.880	18.89	21.43	40.31	-5.69	46.00	100	127	QP
5	501.420	6.85	24.93	31.78	-14.22	46.00	150	272	QP
6	786.600	4.31	29.32	33.63	-12.37	46.00	100	295	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	RLH-C23TA-NHV	Date of Test	2026-07-06
Factor	VULB 9162	Temp. / Humidity	24°C /55%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_30MHz-1GHz		



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	33.880	15.27	17.38	32.65	-7.35	40.00	100	328	QP
2		109.540	13.66	18.30	31.96	-11.54	43.50	100	350	QP
3		324.880	16.14	21.43	37.57	-8.43	46.00	100	0	QP
4		379.200	10.19	22.81	32.99	-13.01	46.00	100	47	QP
5		474.260	2.95	24.26	27.22	-18.78	46.00	100	354	QP
6		786.600	1.71	29.32	31.03	-14.97	46.00	100	164	QP

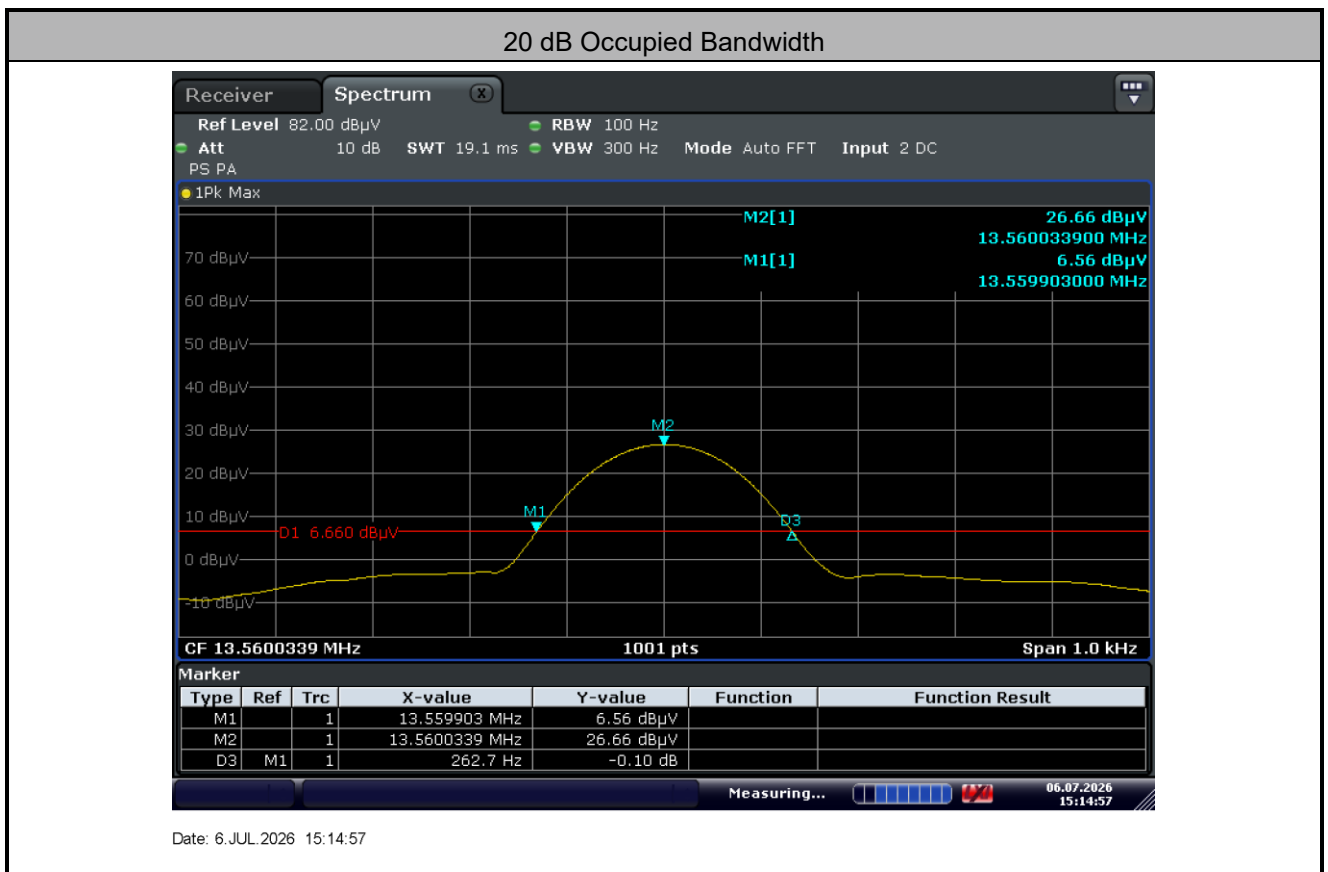
Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

A.3 20 dB Bandwidth Test Result

Test Site	AC1	Test Date	2026-07-06
Test Engineer	Todd	Test Mode	Mode 1

Frequency (MHz)	20 dB Occupied Bandwidth (kHz)
13.56	0.2627



A.4 Frequency Tolerance Test Result

Test Site	SR3	Test Date	2026-07-03
Test Engineer	Todd	Test Mode	Mode 1

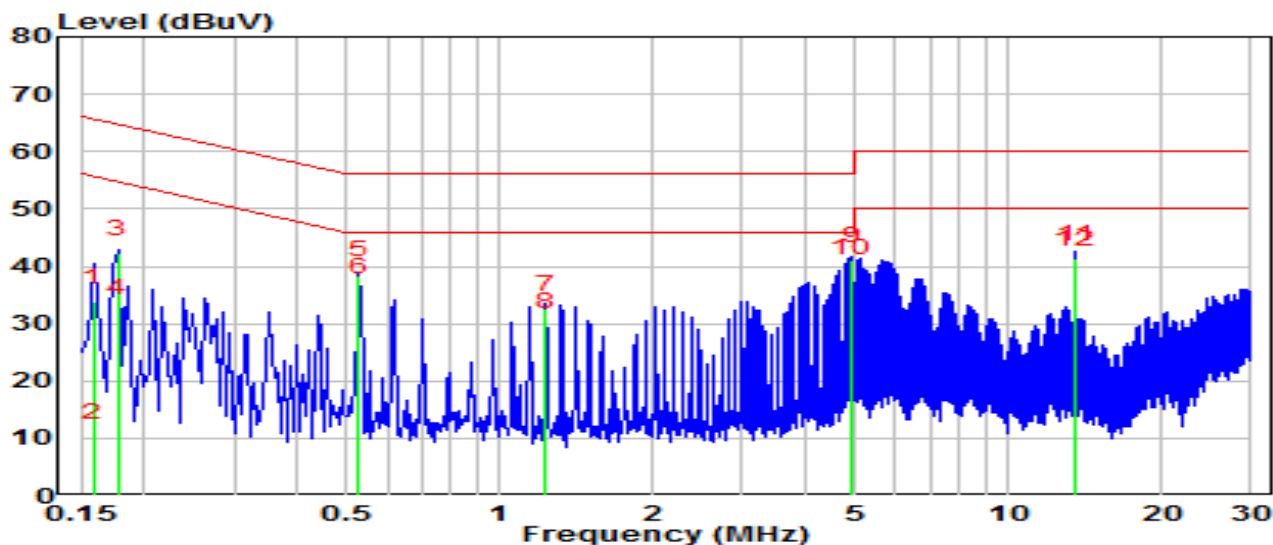
Temperature vs. Frequency Stability					
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
100%	24V	- 20	13.5602	14.75	±100
		- 10	13.5601	7.37	±100
		0	13.5602	14.75	±100
		+ 10	13.5601	7.37	±100
		+ 20 (Ref)	13.5601	7.37	±100
		+ 30	13.5601	7.37	±100
		+ 40	13.5600	0.00	±100
		+ 50	13.5601	7.37	±100
Test Result		PASS			
Voltage vs. Frequency Stability					
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
100%	24V	+ 20	13.5601	7.37	±100
115%	27.6V	+ 20	13.5600	0.00	±100
85%	20.4V	+ 20	13.5601	7.37	±100
Test Result		PASS			

Note:

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) – Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

A.5 AC Conducted Emissions Test Result

EUT	RLH-C23TA-NHV	Date of Test	2026-07-07
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	26°C /52%
Polarity	Line1	Site / Test Engineer	SR2 / Kaunaz
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_CE_0.15MHz-30MHz		

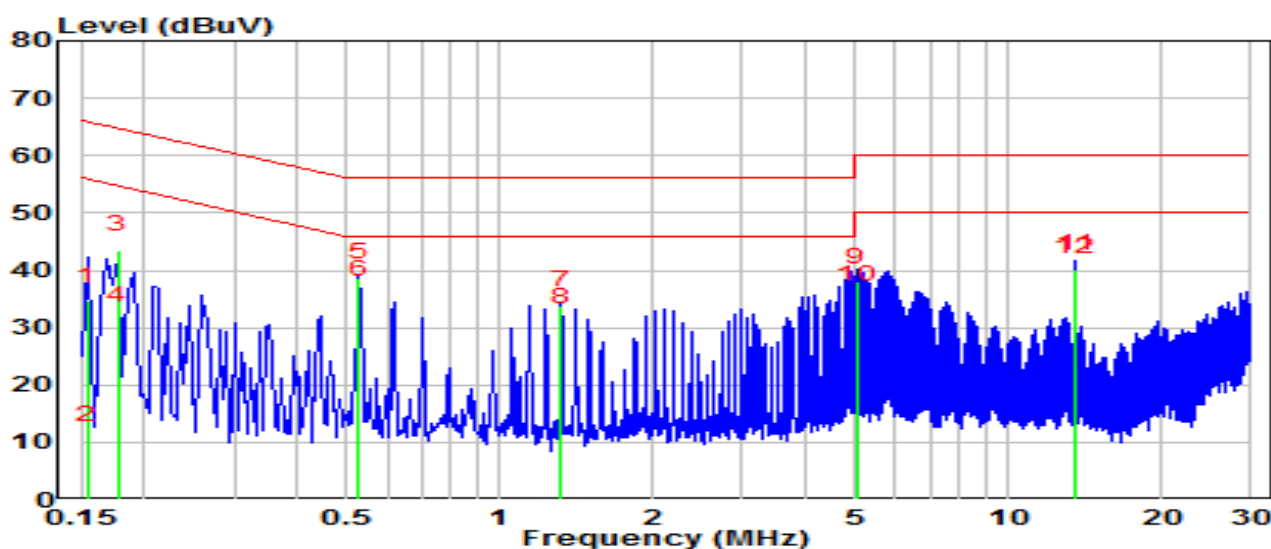


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.159	24.17	9.62	33.79	-31.72	65.52	QP
2		0.159	0.55	9.62	10.17	-45.35	55.52	Average
3		0.177	32.54	9.63	42.17	-22.46	64.63	QP
4		0.177	22.29	9.63	31.91	-22.71	54.63	Average
5		0.528	28.76	9.64	38.40	-17.60	56.00	QP
6		0.528	25.70	9.64	35.35	-10.65	46.00	Average
7		1.234	22.83	9.68	32.51	-23.49	56.00	QP
8		1.234	19.63	9.68	29.31	-16.69	46.00	Average
9	*	4.933	31.18	9.76	40.94	-15.06	56.00	QP
10	*	4.933	29.16	9.76	38.92	-7.08	46.00	Average
11		13.559	31.39	9.89	41.28	-18.72	60.00	QP
12		13.559	30.34	9.89	40.23	-9.77	50.00	Average

Note:

1. " * ", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	RLH-C23TA-NHV	Date of Test	2026-07-07
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	26°C /52%
Polarity	Neutral	Site / Test Engineer	SR2 / Kaunaz
Test Mode	TX-RFID 13.56MHz	Test Voltage	AC 120V/60Hz
Limit	FCC Part15C_CE_0.15MHz-30MHz		



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.154	25.02	9.62	34.64	-31.12	65.75	QP
2		0.154	0.75	9.62	10.38	-45.38	55.75	Average
3		0.177	33.94	9.63	43.56	-21.06	64.63	QP
4		0.177	21.56	9.63	31.18	-23.44	54.63	Average
5	*	0.528	29.15	9.64	38.79	-17.21	56.00	QP
6	*	0.528	26.15	9.64	35.79	-10.21	46.00	Average
7		1.320	24.18	9.68	33.86	-22.14	56.00	QP
8		1.320	21.27	9.68	30.95	-15.05	46.00	Average
9		5.019	28.14	9.77	37.91	-22.09	60.00	QP
10		5.019	25.12	9.77	34.89	-15.11	50.00	Average
11		13.559	30.36	9.91	40.28	-19.72	60.00	QP
12		13.559	29.84	9.91	39.76	-10.24	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

Appendix B - Test Setup Photograph

Refer to “2606TW0125-UT” file.

Appendix C - External Photograph

Refer to “2606TW0125-UE” file.

Appendix D - Internal Photograph

Refer to “2606TW0125-UI” file.

_____ The End _____