

FCC TEST REPORT

FOR

Medix-Care UK Ltd

Smart Terminal

Test Model: MX15

Additional Model No.: MX15 Lite,MX15 Pro,MX21,MX21 Pro,MX27,MX10-T,
MX10-S

Prepared for : Medix-Care UK Ltd
Address : 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : August 07, 2026
Number of tested samples : 2
Sample No. : C260805014-1, C260805014-2
Serial number : Prototype
Date of Test : August 07, 2026 ~ August 26, 2026
Date of Report : August 27, 2026

**FCC TEST REPORT
FCC CFR 47 PART 15 C (15.225)****Report Reference No.** : **LCSC08056011EF**

Date of Issue : August 27, 2026

Testing Laboratory Name..... : **Guangzhou LCS Compliance Testing Laboratory Ltd.**

Address : No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

Testing Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name** : **Medix-Care UK Ltd**

Address : 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ

Test Specification

Standard : FCC CFR 47 PART 15 C(15.225)

TRF Originator : Guangzhou LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description..... : **Smart Terminal**

Trade Mark : N/A

Test Model..... : MX15

Ratings : Please Refer to Page 6

Result : Pass

Compiled by:

Lifeng Le / Administrator

Supervised by:

Justin Zhu/ Technique Director

Approved by:

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. :	LCSC08056011EF	<u>August 27, 2026</u> Date of issue
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Test Model.....	: MX15
EUT.....	: Smart Terminal
Applicant.....	: Medix-Care UK Ltd
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Medix-Care UK Ltd
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /
Factory.....	: Medix-Care UK Ltd
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /

Test Result	Pass
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 27, 2026	Initial Issue	---

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Smart Terminal
Test Model	: MX15
Additional Model No.	: MX15 Lite, MX15 Pro, MX21, MX21 Pro, MX27, MX10-T, MX10-S
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: For EUT: Input:12.0V $\overline{\sim}$ 5.0A For Adapter Input: 100-240V~, 50/60Hz, 1.5A MAX USB-C Output: 12.0V $\overline{\sim}$ 5.0A, 60.0W
Hardware Version	: MX15-MX21-MX27_V02
Software Version	: V1.2.17.3.w
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0(DSS) 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0(DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: FPC Antenna, 5.01dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 5.01dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 2.47dBi(Max.)
WIFI(5.8G Band)	:
Frequency Range	: 5745MHz~5825MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 2.69dBi(Max.)
NFC	:
Operating Frequency	: 13.56MHz
Modulation Type	: ASK
Antenna Description	: Internal Antenna

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN FUJIA APPLIANCE CO., LTD.	SWITCHING ADAPTOR	FJ-SW30061205000D	--	FCC

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
ID /IC Card Slot	1	N/A
Earphone Jack Port	2	N/A
Handset Jack Port	1	N/A
USB Port	1	N/A
DC IN Port	1	N/A
RJ45 Port	1	N/A
Internal Microphones Port	1	N/A
Type C(Service) Port	1	N/A

1.4 Description of Test Facility

Site Description

EMC Lab. CNAS Registration Number is L11555
A2LA Certificate Number: 5099.01
FCC Designation Number is CN1379
Test Firm Registration Number: 729882

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10-2020 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
	:	30MHz~200MHz	±2.96dB	(1)
	:	200MHz~1000MHz	±3.10dB	(1)
	:	1GHz~26.5GHz	±3.80dB	(1)
	:	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in Y position.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power.

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Guangzhou LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.225 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2020.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by applicant.

3.3. Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
/	/	/	/	/	/	/	/

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Guangzhou LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

3.7 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	DC 10.8V
	VN	DC 12V
	VH	DC 13.2V

NOTE: VL=lower extreme test voltage VN=nominal voltage
VH=upper extreme test voltage TN=normal temperature

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C		
Test Items	FCC Rules	Result
Line Conducted Emissions	§15.207(a)	PASS
Field Strength of Fundamental Emissions	§15.225(a)(b)(c)	PASS
Radiated Emissions	§15.225(d) & §15.209	PASS
20dB Bandwidth	§ 15.215	PASS
Frequency Stability	§15.225(e)	PASS
Antenna Requirement	§15.203	PASS

5. RADIATED MEASUREMENT

5.1. Radiated Emission

5.1.1. Standard Applicable

According to §15.209/ §15.205

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 ^m carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

5.1.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

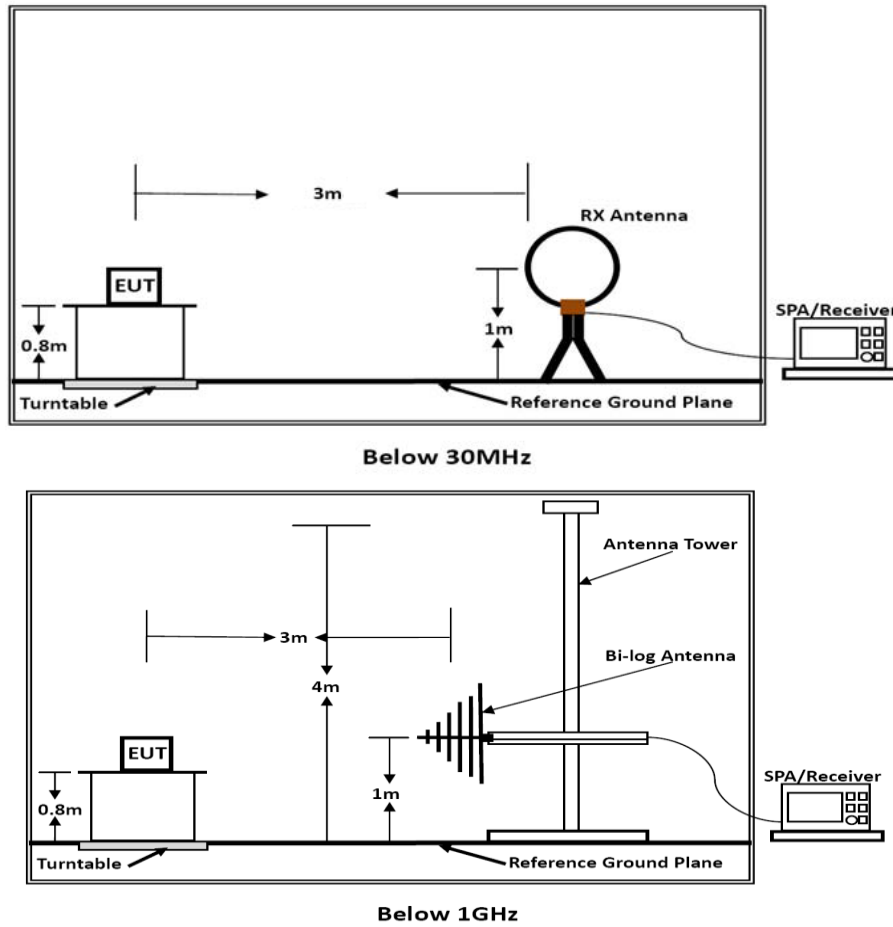
Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

5.1.4. Test Setup Layout



5.1.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

5.1.6. Test Results

Temperature	24.3℃	Humidity	54.2%
Test Engineer	Zhang hai	Configurations	NFC

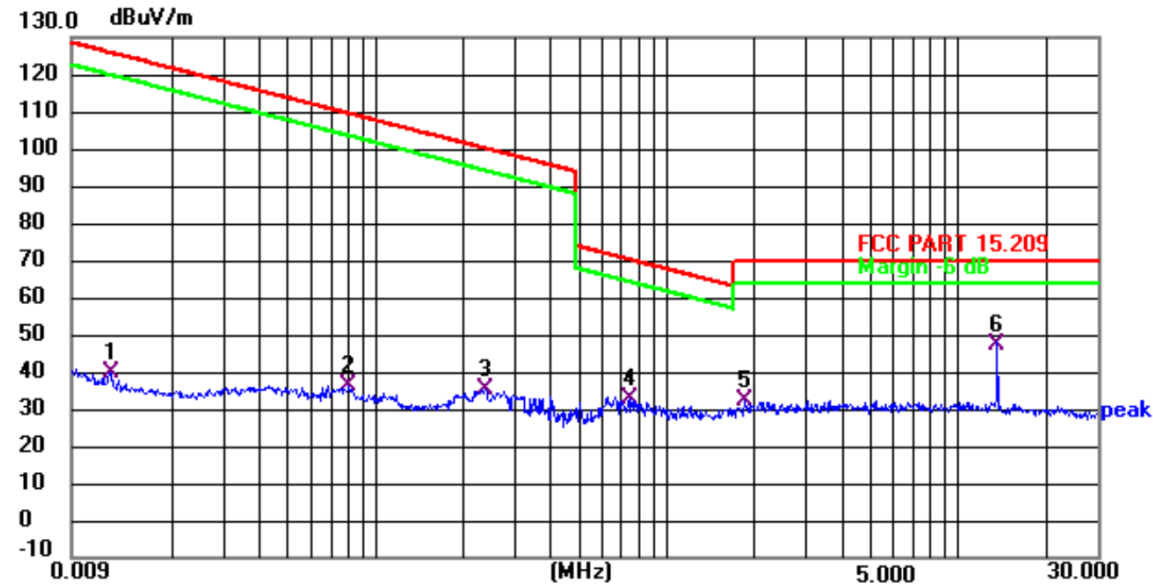
PASS.

The test data please refer to following page:

9 KHz~30MHz

Note: Only recorded the worst test result.

X axis



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.0122	18.88	20.95	39.83	125.88	-86.05	QP	
2		0.0803	14.70	21.31	36.01	109.51	-73.50	QP	
3		0.2364	13.77	21.48	35.25	100.13	-64.88	QP	
4		0.7423	11.33	21.23	32.56	70.19	-37.63	QP	
5		1.8418	11.23	21.20	32.43	69.54	-37.11	QP	
6	*	13.6538	26.35	20.95	47.30	69.54	-22.24	QP	

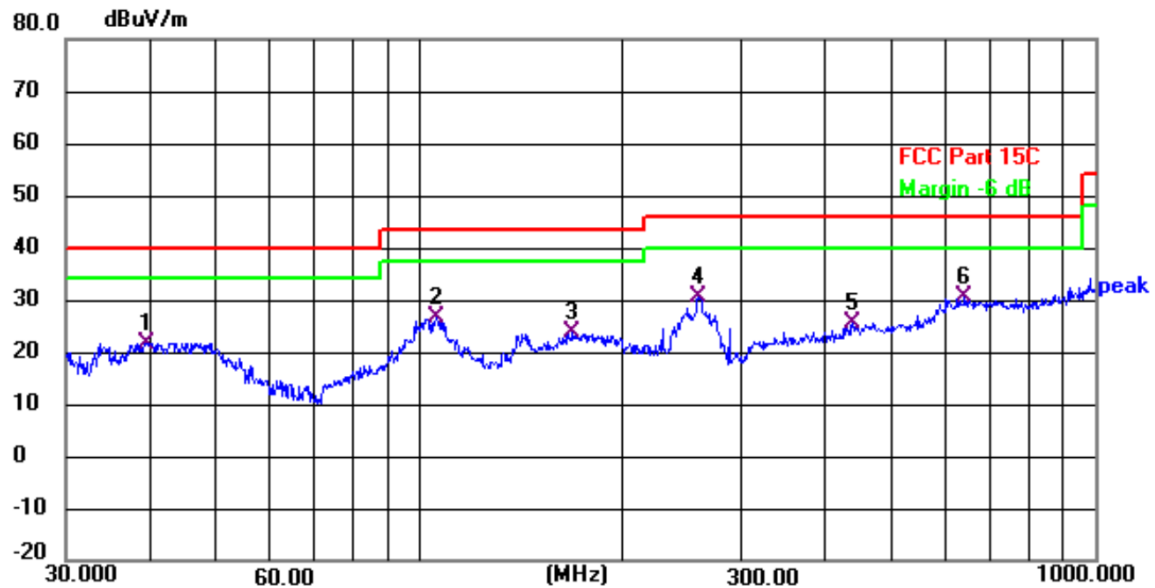
Remark:

- 1). X axis / Y axis/ Z axis were tested, report only recorded the worst result of X axis..
- 2). Margin=Reading level + Factor- Limit

Temperature	24.3°C	Humidity	54.2%
Test Engineer	Zhang hai	Configurations	NFC

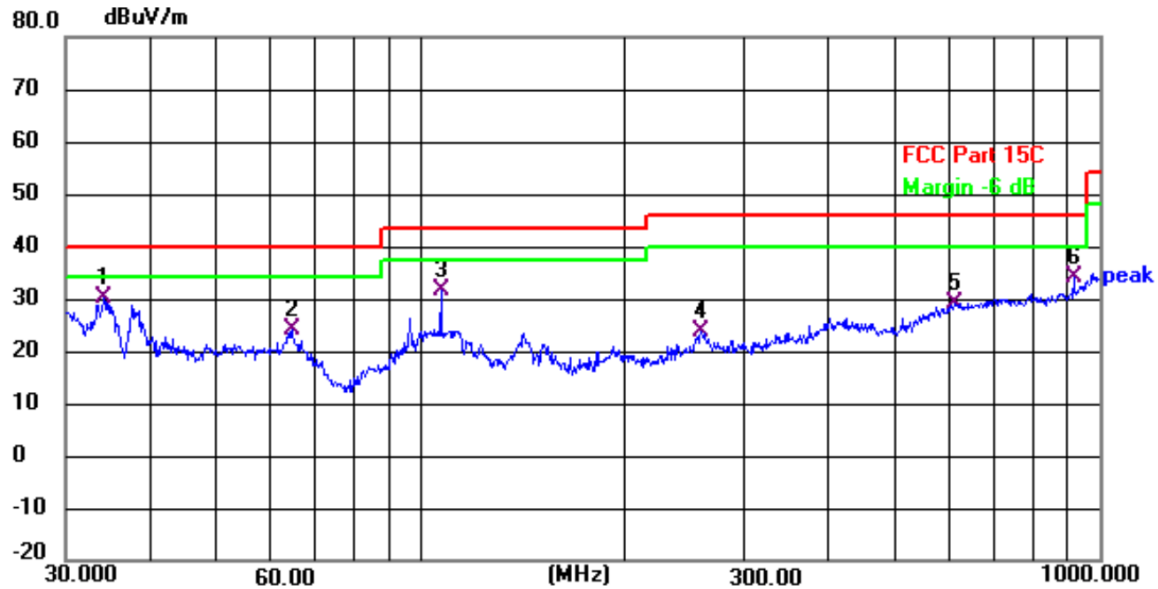
30MHz ~ 1GHz

Horizontal:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		39.5756	2.22	19.55	21.77	40.00	-18.23	QP	
2		106.0126	7.48	19.23	26.71	43.50	-16.79	QP	
3		168.4137	7.19	16.49	23.68	43.50	-19.82	QP	
4	*	259.2337	9.59	20.94	30.53	46.00	-15.47	QP	
5		437.1200	0.21	25.20	25.41	46.00	-20.59	QP	
6		640.6110	1.13	29.25	30.38	46.00	-15.62	QP	

Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	34.1560	12.40	17.84	30.24	40.00	-9.76	QP	
2		64.6594	5.46	18.70	24.16	40.00	-15.84	QP	
3		107.1337	12.42	19.15	31.57	43.50	-11.93	QP	
4		259.2336	2.76	20.94	23.70	46.00	-22.30	QP	
5		612.0641	-0.03	28.98	28.95	46.00	-17.05	QP	
6		916.0684	1.32	32.88	34.20	46.00	-11.80	QP	

Note:

Pre-scan all modes and recorded the worst case results in this report.

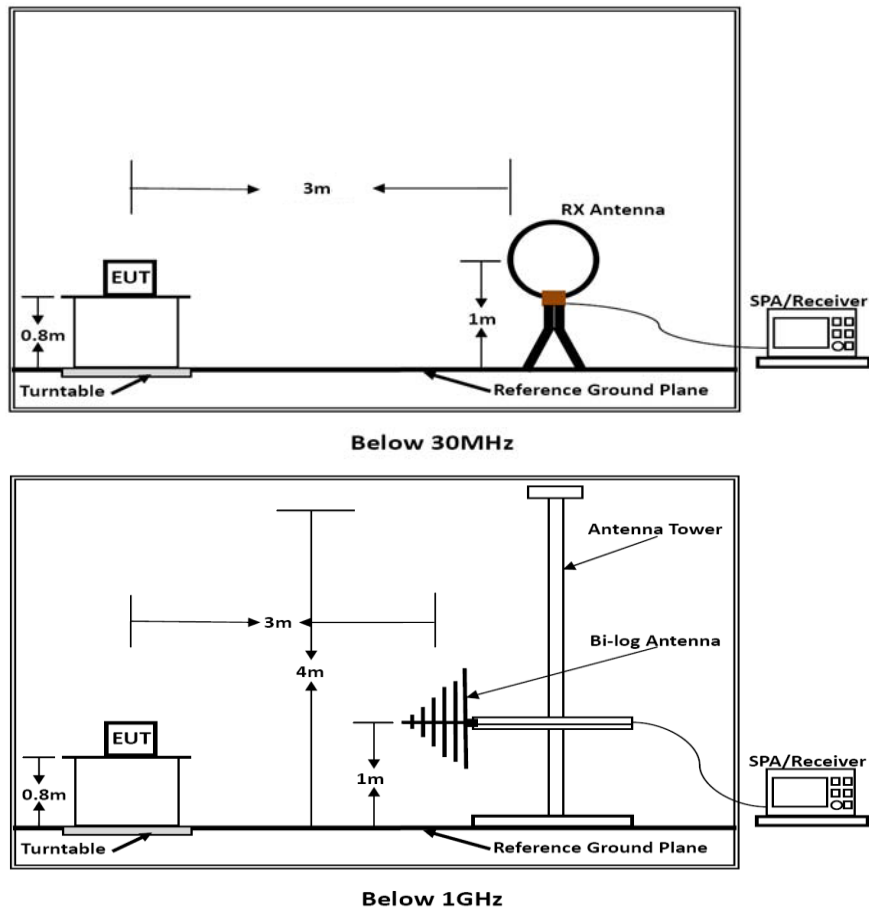
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Factor + Read Level = Level.

Margin=Level – Limit.

5.2. Field Strength of Fundamental Emissions and Mask Measurement

5.2.1. Block Diagram of Test Setup



5.2.2. Field strength of fundamental emissions limit and Mask limit

The field strength of fundamental emissions shall not exceed 15848 microvolts/meter at 30 meters. The emissions limit in this paragraph is based on measurement instrumentation employing a QP detector.

Frequencies (MHz)	Field Strength (microvolts/meter)	Field Strength (dB μ V/m) at 10m	Field Strength (dB μ V/m) at 3m
13.553 ~ 13.567MHz	15848 at 30m	103.08 (QP)	124 (QP)

Mask Limit:

Frequency (MHz)	Limit (dB μ V/m)	Distance (m)
1.705-13.110	69.5	3
13.110-13.410	80.5	3
13.410-13.553	90.5	3
13.553-13.567	124.0	3
13.567-13.710	90.5	3
13.710-14.010	80.5	3
14.010-30.000	69.5	3

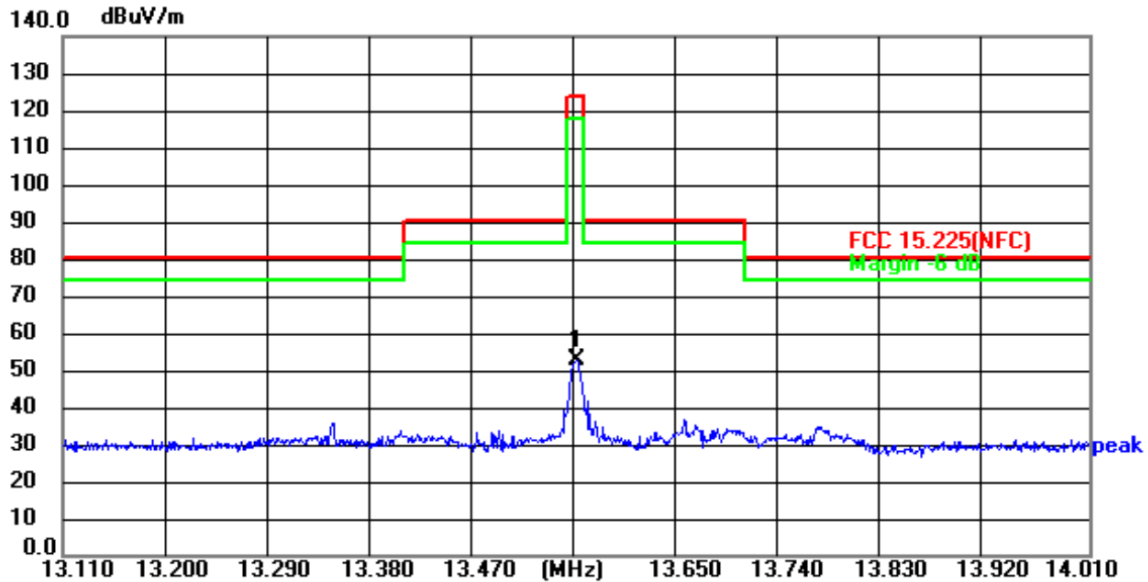
5.2.3. Test Results

Temperature	24.3℃	Humidity	54.2%
Test Engineer	Zhang hai	Configurations	NFC

PASS.

The test data please refer to following page:

X axis



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuA	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	13.5600	31.42	21.23	52.65	124.00	-71.35	peak	

*Note: Factor= Antenna Factor + Cable Loss

Measured= Reading + Factor, Margin= Measured - Limit

Emission level (dBuV/m) = 20 log Emission level (μV/m).

Measured distance is 3m.

All emissions emit from non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

X axis / Y axis/ Z axis were tested,report only recorded the worst result of X axis.

6. BANDWIDTH OF THE OPERATING FREQUENCY

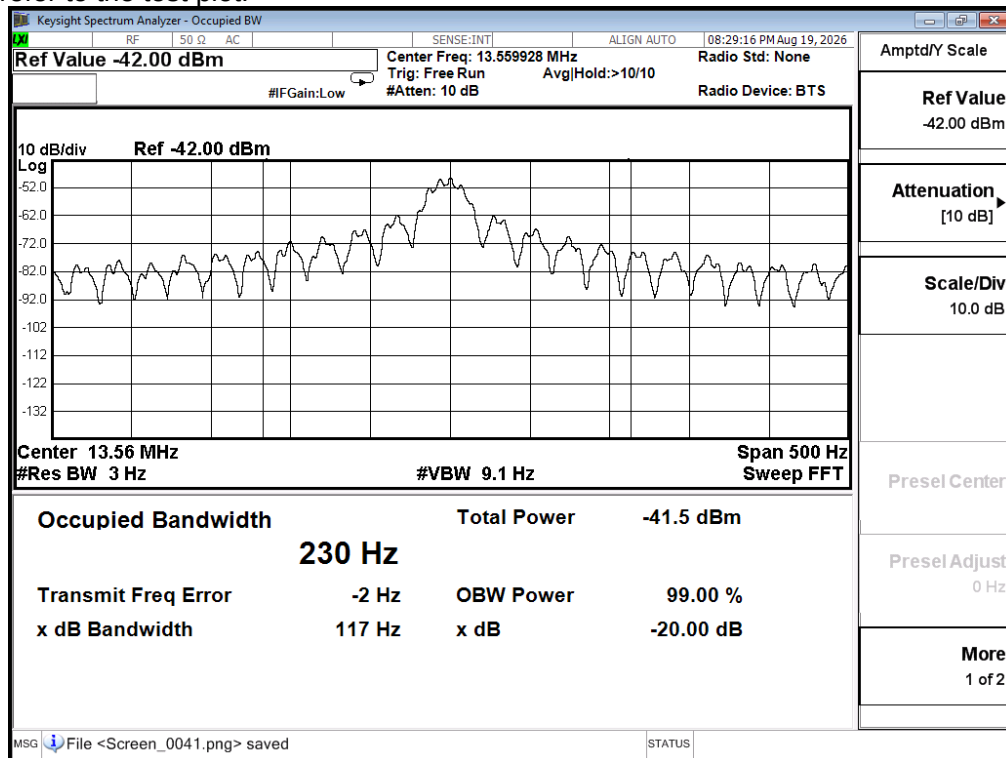
6.1. Standard Applicable

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553 ~ 13.567MHz).

6.2. Test Result

EUT	Smart Terminal
RBW	3 Hz
VBW	9.1 Hz
SPAN	500 Hz
Carrier Frequency (MHz)	20dB Bandwidth (KHz)
13.56	0.117

Please refer to the test plot:



7. FREQUENCY STABILITY MEASUREMENT

7.1 Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a full charged battery.

7.2 Test Result

Voltage vs. Frequency Stability

Voltage(V)	Measurement Frequency (MHz)	Deviation (KHz)	Deviation (ppm)	Limit (ppm)
VN	13.56048	0.48	35.74	100
VL	13.56029	0.29	21.51	100
VH	13.56030	0.30	21.98	100

Temperature vs. Frequency Stability

Temperature (°C)	Measurement Frequency (MHz)	Deviation (KHz)	Deviation (ppm)	Limit (ppm)
-20	13.56029	0.29	21.38	100
-10	13.56030	0.30	22.06	100
0	13.56033	0.33	24.50	100
10	13.56043	0.43	31.94	100
20	13.56038	0.38	27.95	100
30	13.56032	0.32	23.35	100
40	13.56037	0.37	27.48	100
50	13.56037	0.37	27.50	100

8. LINE CONDUCTED EMISSIONS

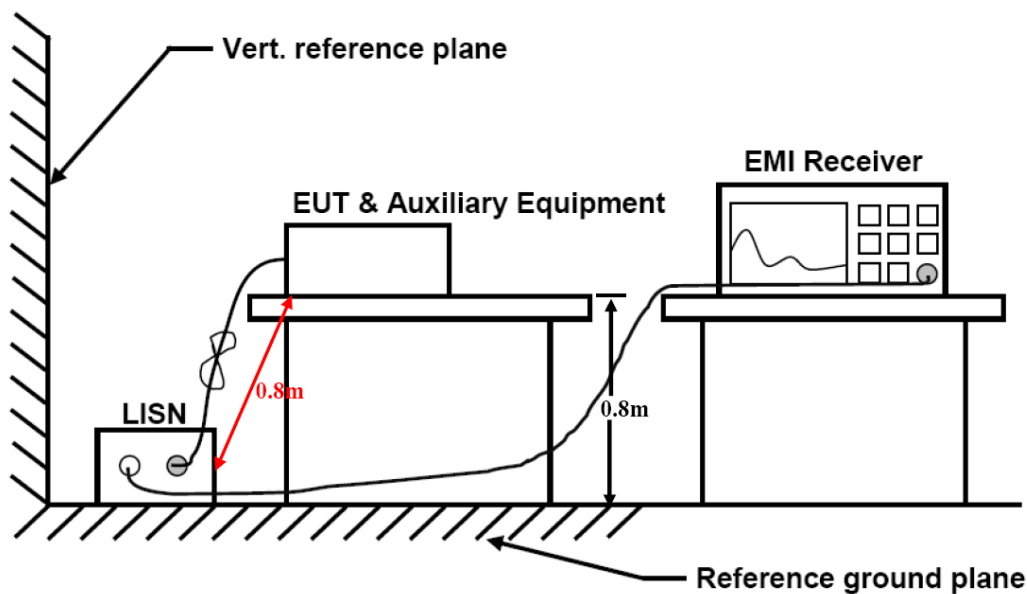
8.1. Standard Applicable

According to §15.207(a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

8.2. Block Diagram of Test Setup



8.3 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dB}\mu\text{V)} = RA \text{ (dB}\mu\text{V)} + PL \text{ (dB)} + CL \text{ (dB)}$$

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

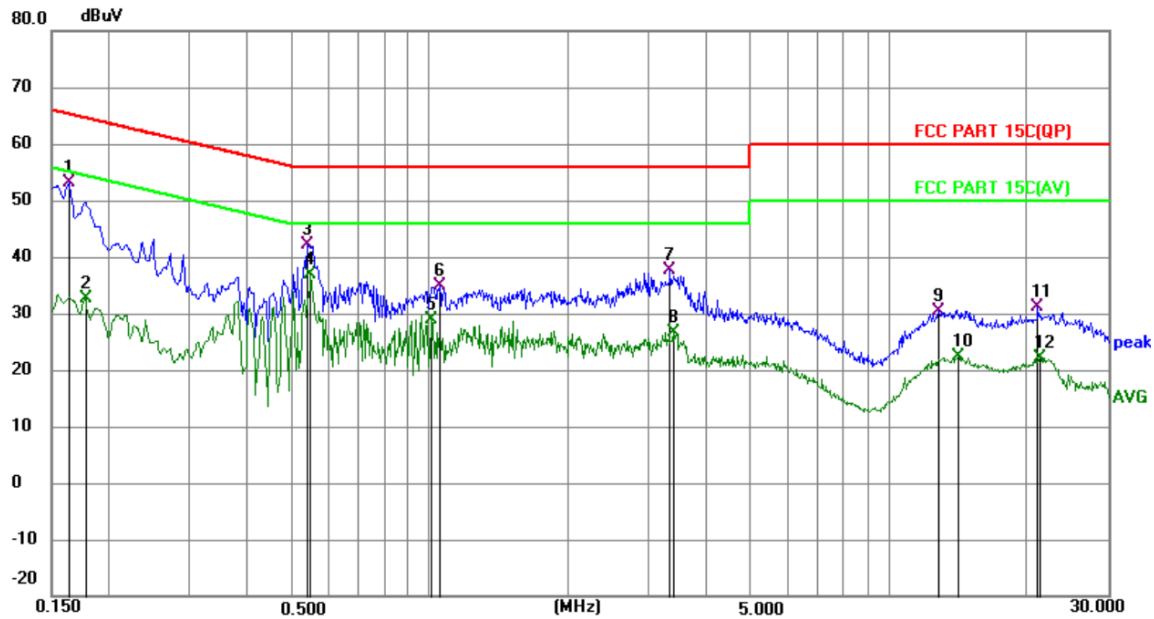
8.4. Test Results

Temperature	24.2°C	Humidity	55.1%
Test Engineer	Zhang hai	Configurations	NFC

The test data please refer to following page.

AC Conducted Emission @ AC 120V/60Hz (worst case)

Line



No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1635	43.05	10.15	53.20	65.28	-12.08	QP	
2		0.1770	22.61	10.13	32.74	54.63	-21.89	AVG	
3		0.5413	31.97	10.08	42.05	56.00	-13.95	QP	
4	*	0.5503	26.79	10.08	36.87	46.00	-9.13	AVG	
5		1.0095	18.63	10.21	28.84	46.00	-17.16	AVG	
6		1.0500	24.76	10.22	34.98	56.00	-21.02	QP	
7		3.3360	27.43	10.17	37.60	56.00	-18.40	QP	
8		3.3990	16.51	10.17	26.68	46.00	-19.32	AVG	
9		12.7860	19.95	10.39	30.34	60.00	-29.66	QP	
10		14.1540	12.03	10.40	22.43	50.00	-27.57	AVG	
11		21.1380	20.87	10.37	31.24	60.00	-28.76	QP	
12		21.2640	11.77	10.37	22.14	50.00	-27.86	AVG	

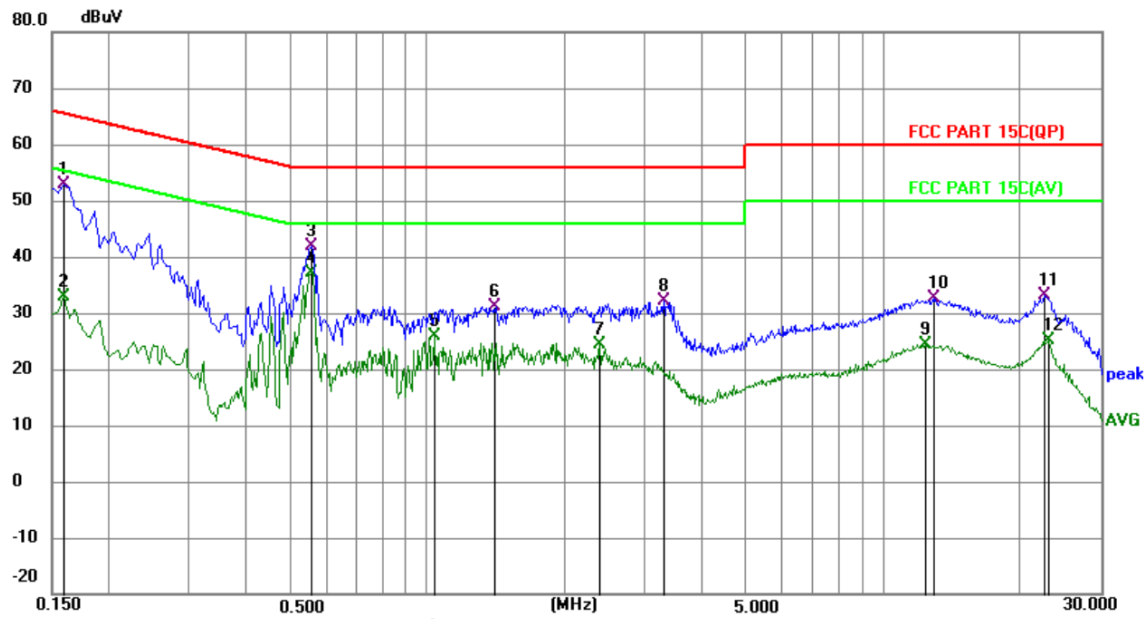
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Neutral



No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1590	42.70	10.13	52.83	65.52	-12.69	QP	
2		0.1590	22.84	10.13	32.97	55.52	-22.55	AVG	
3		0.5550	31.75	10.08	41.83	56.00	-14.17	QP	
4	*	0.5550	27.05	10.08	37.13	46.00	-8.87	AVG	
5		1.0320	15.83	10.16	25.99	46.00	-20.01	AVG	
6		1.4144	20.97	10.20	31.17	56.00	-24.83	QP	
7		2.3955	14.09	10.24	24.33	46.00	-21.67	AVG	
8		3.3000	21.78	10.23	32.01	56.00	-23.99	QP	
9		12.3224	14.06	10.33	24.39	50.00	-25.61	AVG	
10		12.9480	22.18	10.34	32.52	60.00	-27.48	QP	
11		22.6275	22.91	10.32	33.23	60.00	-26.77	QP	
12		23.0640	14.72	10.31	25.03	50.00	-24.97	AVG	

Measurement = Reading + Correct, Margin = Measurement – Limit.

Correct Factor = Lisen Factor + Cable Factor

9. ANTENNA REQUIREMENTS

9.1 Standard Applicable

According to antenna requirement of §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. 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 manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

9.2 Antenna Connected Construction

9.2.1. Standard Applicable

According to § 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.

9.2.2. Antenna Connector Construction

The antenna is Internal Antenna connect to PCB board and no consideration of replacement. Please see the antenna photo for details.

9.2.3. Results: Compliance.

10. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Equipment No.	Cal Date	Due Date
1	Power Meter	Keysight	E4417A	GLCS-E-279	2026-04-07	2027-04-06
2	Power Sensor	Keysight	E9304A	GLCS-E-280	2026-04-07	2027-04-06
3	Power Sensor	Keysight	E9304A	GLCS-E-281	2026-04-07	2027-04-06
4	Spread Spectrum Unit	Tonscend	TS-WF7U2	GLCS-E-364	N/A	N/A
5	Test Software	Tonscend	JS1120-3	GLCS-E-366	N/A	N/A
6	RF Control Unit	Tonscend	JS0806-2	GLCS-E-365	2026-07-15	2027-07-14
7	MXA Signal Analyzer	Keysight	N9020A	GLCS-E-356	2026-07-15	2027-07-14
8	DC Power Supply	Keysight	E3642A	GLCS-E-357	2026-07-15	2027-07-14
9	Signal Analyzer	Keysight	N5172B	GLCS-E-353	2026-07-15	2027-07-14
10	Signal Analyzer	Keysight	N5181A	GLCS-E-354	2026-07-15	2027-07-14
11	WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	GLCS-E-355	2026-07-15	2027-07-14
12	EMI Test Software	Farad	EZ-EMC(Ver.FA-03A2 RE+)	GLCS-E-012	N/A	N/A
13	Semi Anechoic Chamber#1	Maorui	966	GLCS-E-001	2024-04-21	2027-04-20
14	Positioning Controller	Max-Full	MF-7802	GLCS-E-015	N/A	N/A
15	Active Loop Antenna	TESEQ	HLA 6121	GLCS-E-155	2026-07-17	2027-07-16
16	By-log Antenna	SCHWARZBECK	VULB9163	GLCS-E-352	2025-08-16	2028-08-15
17	Low-frequency amplifier	Sonoma	310N	GLCS-E-036	2026-04-07	2027-04-06
18	Horn Antenna	SCHWARZBECK	BBHA 9120D	GLCS-E-060	2026-07-17	2027-07-16
19	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	GLCS-E-348	2025-08-18	2028-08-17
20	Broadband Preamplifier	Cesheng Technology	LNPA_30M06G-40(18GHz)	GLCS-E-286	2026-04-07	2027-04-06
21	Broadband Preamplifier	Cesheng Technology	LNPA 30M06G-40(40GHz)	GLCS-E-287	2026-04-10	2027-04-09
22	EMI Test Receiver	R&S	ESR 7	GLCS-E-192	2026-04-07	2027-04-06
23	RS SPECTRUM ANALYZER	R&S	FSP40	GLCS-E-213	2026-08-05	2027-08-04
24	6dB Attenuator	/	100W/6dB	GLCS-E-350	2026-07-15	2027-07-14
25	3dB Attenuator	/	2N-3dB	GLCS-E-351	2026-07-09	2027-07-08
26	EMI Test Receiver	ROHDE & SCHWARZ	ESR7	GLCS-E-158	2026-04-07	2027-04-06
27	Artificial Mains Network	ROHDE & SCHWARZ	ESH2-Z5	GLCS-E-011	2026-01-14	2027-01-13
28	EMI Test Software	Farad	EZ-EMC(Ver.FA-03A2 RE+)	GLCS-E-017	N/A	N/A
29	Antenna Mast	Maorui	BK-4AT-BS	GLCS-E-249	N/A	N/A
30	Pulse Limiter	SCHWARZBECK	VTSD 9561-F	GLCS-E-080	2026-04-07	2027-04-06

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11. Test Setup Photographs of Eut

Please refer to separated files for Test Setup Photos of the EUT.

12. Exterior Photographs of the Eut

Please refer to separated files for Exterior Photos of the EUT.

13. Interior Photographs of the Eut

Please refer to separated files for Interior Photos of the EUT.

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