

TEST REPORT

Applicant: SEUIC Technologies Co., Ltd.
Address: NO.15 Xinghuo Road, Nanjing New & High
Technology Industry Development Zone, 210061,
Nanjing City, Jiangsu Province, China
Equipment Type: Portable Data Collection Terminal
Model Name: CRUISE2 (refer to section 2.3)
Brand Name: Seuic
FCC ID: 2AC68-CRUISE2U
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Oct. 31, 2023
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Ye Hongji**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jan. 12, 2024</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	SEUIC Technologies Co., Ltd.
Address	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China

2.2 Manufacturer Information

Manufacturer	SEUIC Technologies Co., Ltd.
Address	NO.15 Xinghuo Road, Nanjing New & High Technology Industry Development Zone, 210061, Nanjing City, Jiangsu Province, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Portable Data Collection Terminal
Model Name Under Test	CRUISE2
Series Model Name	CRUISE2U, CRUISE2S, CRUISE2C, AUTOID UTouch 2, AUTOID UTouch 2-S, AUTOID UTouch 2-C
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model names and appearance colors. (this information provided by the customer)
Hardware Version	10110
Software Version	D730_G_V1.2.3
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/25/26/66/71 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20), 802.11ac(VHT20), 802.11ax(HE20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80), 802.11ax(HE20/40/80) U-NII-1/2A/2C/3, GPS, GLONASS, BDS, AGPS, NFC,RFID
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	Frequency hopping system
Modulation Type	RFID
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Frequency Range	The frequency range used is 902 MHz to 928 MHz.
Number of channel	50
Tested Channel	1 (902.75 MHz), 25 (914.75 MHz), 50 (927.25 MHz)
Antenna Type	PCB Antenna
Antenna Gain	3.6 dBi
Antenna System(MIMO Smart Antenna)	N/A

All channel was listed on the following table:

Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)	Channel number	Freq. (MHz)
1	902.75	14	909.25	27	915.75	40	922.25
2	903.25	15	909.75	28	916.25	41	922.75
3	903.75	16	910.25	29	916.75	42	923.25
4	904.25	17	910.75	30	917.25	43	923.75
5	904.75	18	911.25	31	917.75	44	924.25
6	905.25	19	911.75	32	918.25	45	924.75
7	905.75	20	912.25	33	918.75	46	925.25
8	906.25	21	912.75	34	919.25	47	925.75
9	906.75	22	913.25	35	919.75	48	926.25
10	907.25	23	913.75	36	920.25	49	926.75
11	907.75	24	914.25	37	920.75	50	927.25
12	908.25	25	914.75	38	921.25		
13	908.75	26	915.25	39	921.75		

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	KDB Publication 558074 D01v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	Modulation Technology	Channel	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	N/A	--	Pass ^{Note}
2	Number of Hopping Frequencies	15.247(a)	Frequency hopping system	Hopping Mode	ANNEX A.1	Pass
3	Peak Output Power	15.247(b)	Frequency hopping system	Low/Middle/High	ANNEX A.2	Pass
4	Occupied Bandwidth	15.247(a)	Frequency hopping system	Low/Middle/High	ANNEX A.3	Pass
5	Carrier Frequency Separation	15.247(a)	Frequency hopping system	Hopping Mode	ANNEX A.4	Pass
6	Time of Occupancy (Dwell time)	15.247(a)	Frequency hopping system	Hopping Mode	ANNEX A.5	Pass
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	Frequency hopping system	Low/Middle/High, Hopping Mode	ANNEX A.6	Pass
8	Conducted Emission	15.207	Frequency hopping system	--	ANNEX A.7	Pass
9	Radiated Spurious Emission	15.209 15.247(d)	Frequency hopping system	Low/Middle/High,	ANNEX A.8	Pass
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	Frequency hopping system	Low//High,	ANNEX A.9	Pass
Note: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203						

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	42% to 54%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+23.2°C to +24.3°C
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2023.05.16	2024.05.15
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.12.28	2023.12.27
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2023.06.19	2024.06.18
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.03	2025.02.02
Test Antenna-Horn	A-INFO	LB- 180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2024.09.03
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	01415	2021.03.08	2024.03.07
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2022.09.09	2023.09.08
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2022.09.09	2023.09.08
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m* 2.8m	112	2022.02.19	2025.02.18

4.3 Measurement Uncertainty

The following measurement 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.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

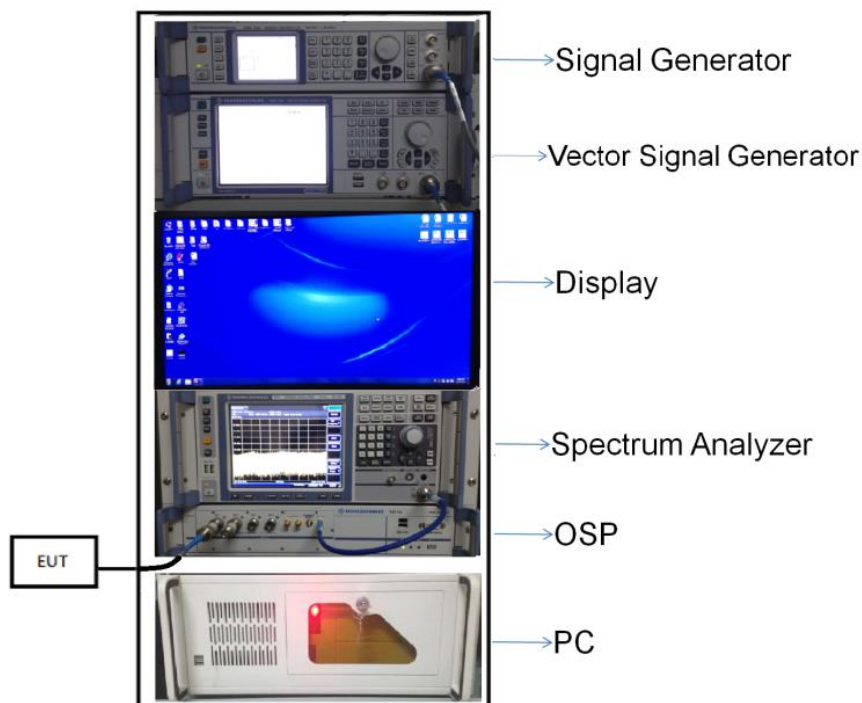
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

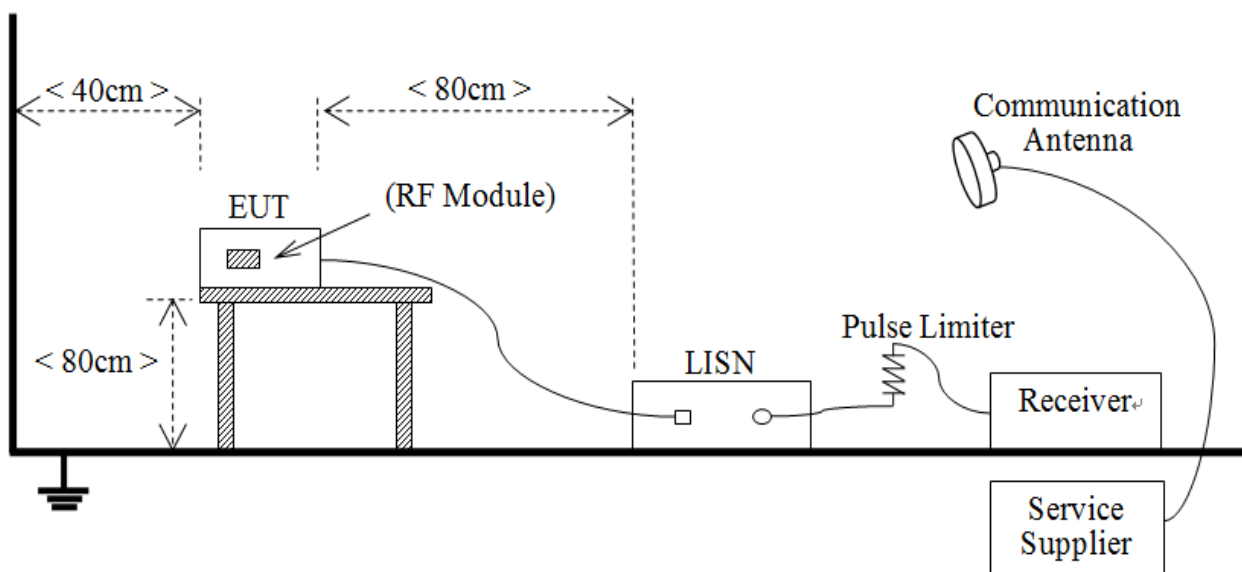
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



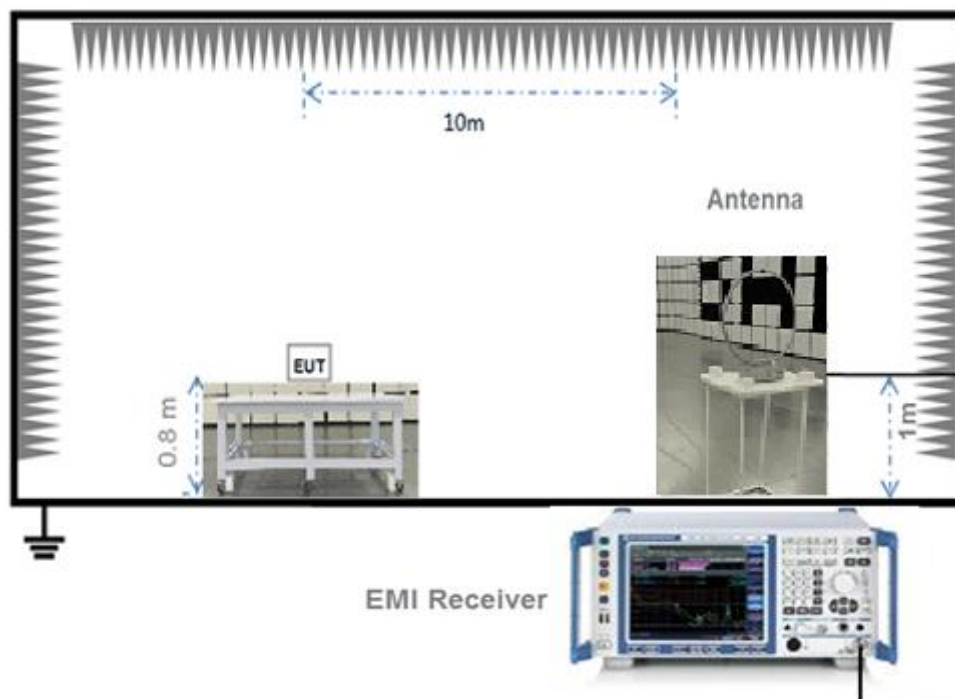
(Diagram 1)

4.4.2 For AC Power Supply Port Test



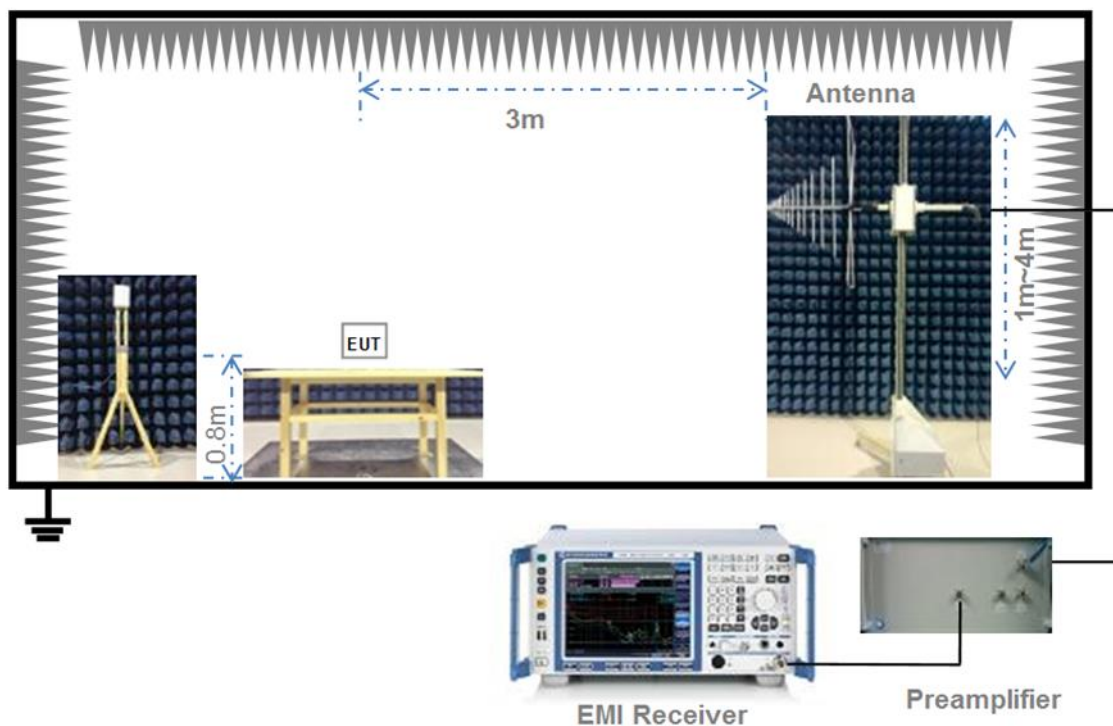
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



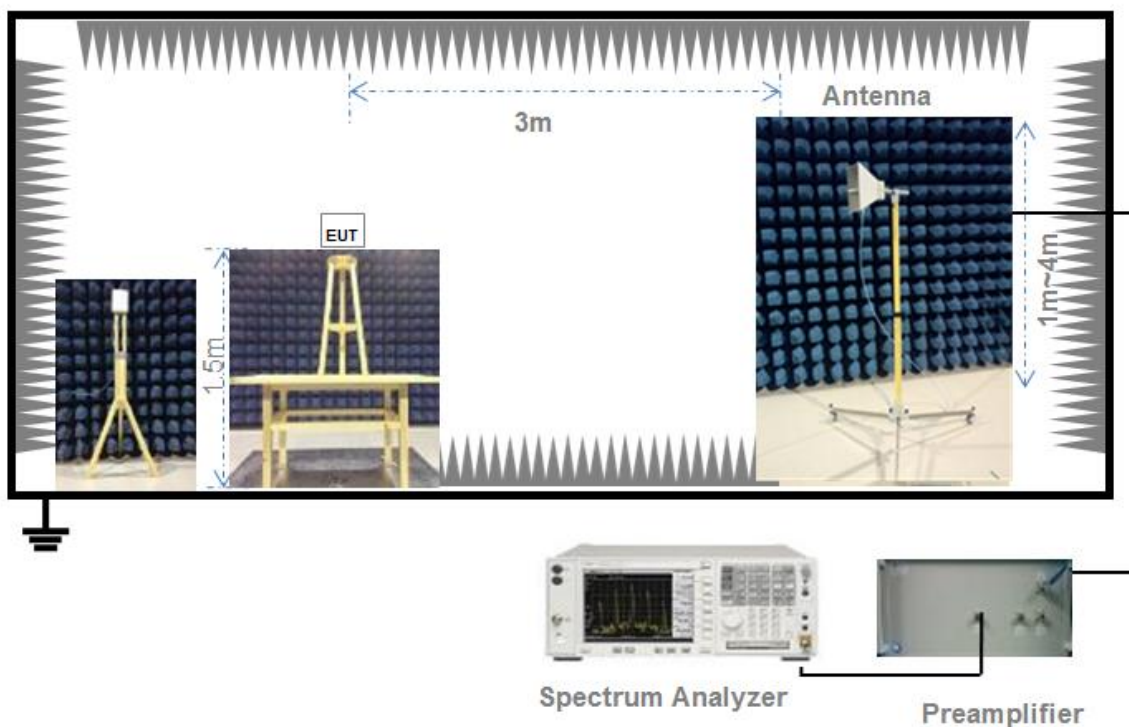
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §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 replaced 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 § 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 § 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.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product	The antenna is welded on the mainboard, can't be replaced by the consumer

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Number of Hopping Frequencies

5.2.1 Limit

FCC §15.247(a)

For FHSs in the band 902-928 MHz: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20-second period. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10-second period. The maximum 20 dB bandwidth of the hopping channel shall be 500 kHz.

5.2.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW $\geq$ 1% of the span

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Peak Output Power and E.I.R.P

5.3.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Occupied Bandwidth

5.4.1 Limit

FCC §15.247(a)

5.4.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW = in the range of 1% to 5% of the OBW

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Carrier Frequency Separation

5.5.1 Limit

FCC §15.247(a)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span

Video (or Average) Bandwidth (VBW) $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Time of Occupancy (Dwell time)

5.6.1 Limit

FCC §15.247(a)

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

5.6.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.6.4 Test Result

Please refer to ANNEX A.5

5.7 Conducted Spurious Emission & Authorized-band band-edge

5.7.1 Limit

FCC §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.7.4 Test Result

Please refer to ANNEX A.6 and A.7

5.8 Conducted Emission

5.8.1 Limit

FCC §15.207

For an intentional radiator that 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 within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.8.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Radiated Spurious Emission

5.9.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	902/F(kHz)	300
0.490 - 1.705	9020/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

Note:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.9.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.9.4 Test Result

Please refer to ANNEX A.8.

5.10 Band Edge (Restricted-band band-edge)

5.10.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULT

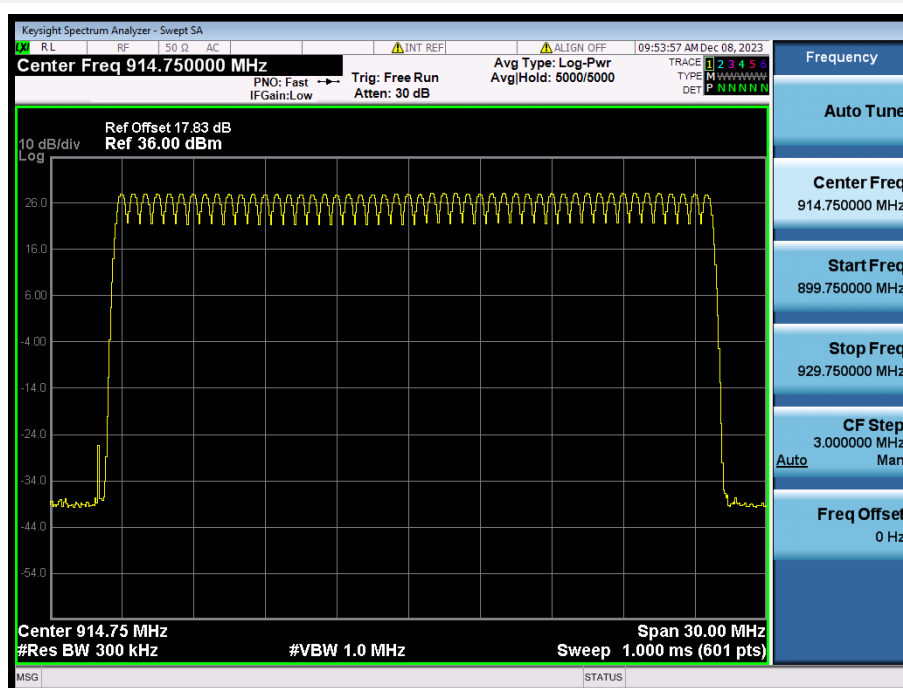
A.1 Number of Hopping Frequency

Test Data

Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
RFID	902-928	50	25	Pass

Test Plots

RFID



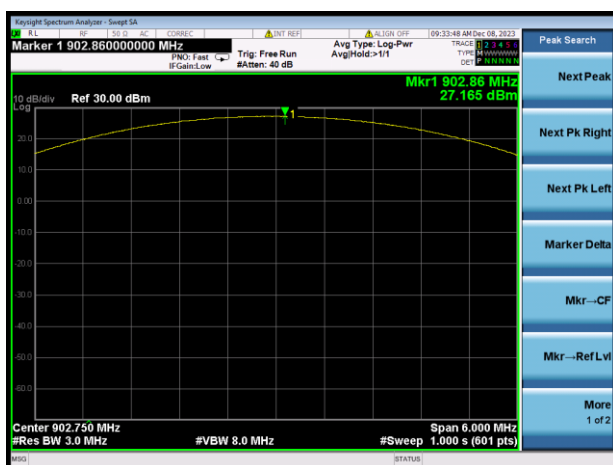
A.2 Peak Output Power

Test Data

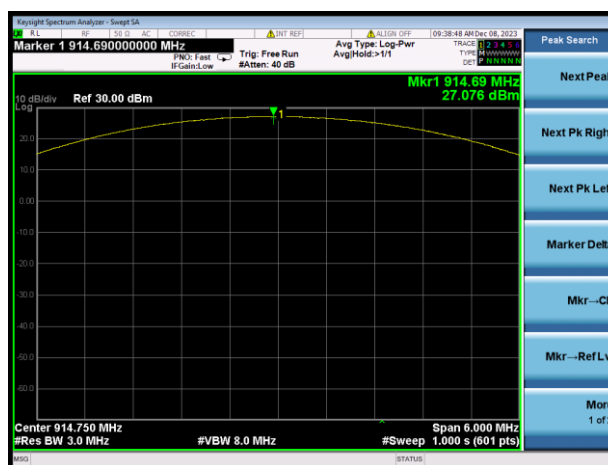
Channel	Measured Output Peak Power		Limit		Verdict
	RFID		dBm	mW	
	dBm	mW			
Low	27.17	520.60	30	1000	Pass
Middle	27.08	510.04			Pass
High	27.17	521.67			Pass

Test Plots

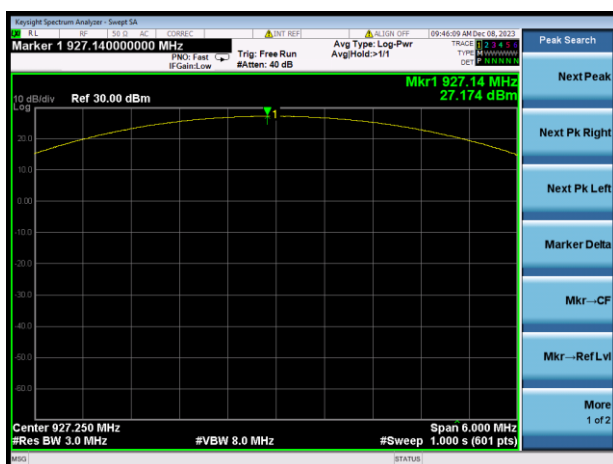
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



A.3 20 dB and 99% bandwidth

Test Data

RFID			
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Verdict
Low	0.131000	0.118370	Pass
Middle	0.129000	0.119170	Pass
High	0.130000	0.123830	Pass

Test Plots

20 dB Bandwidth

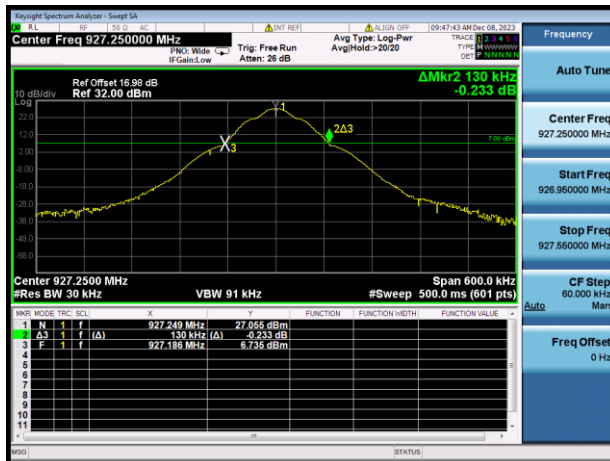
LOW CHANNEL



MIDDLE CHANNEL

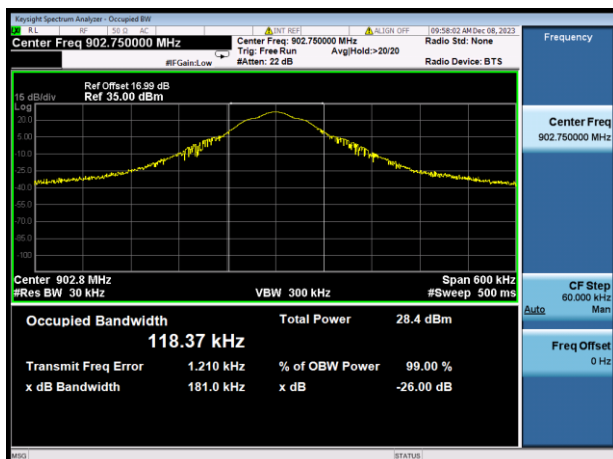


HIGH CHANNEL



99% Bandwidth

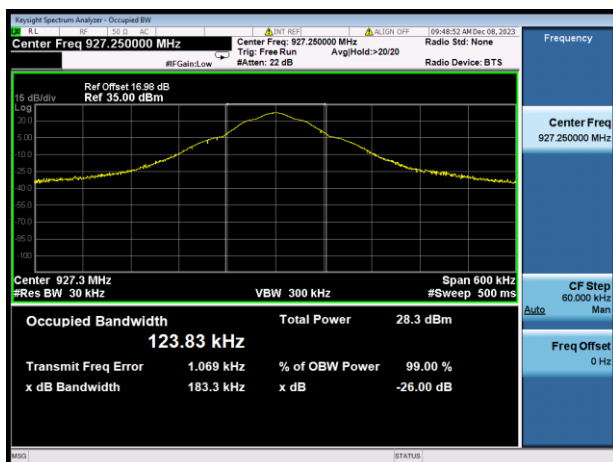
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



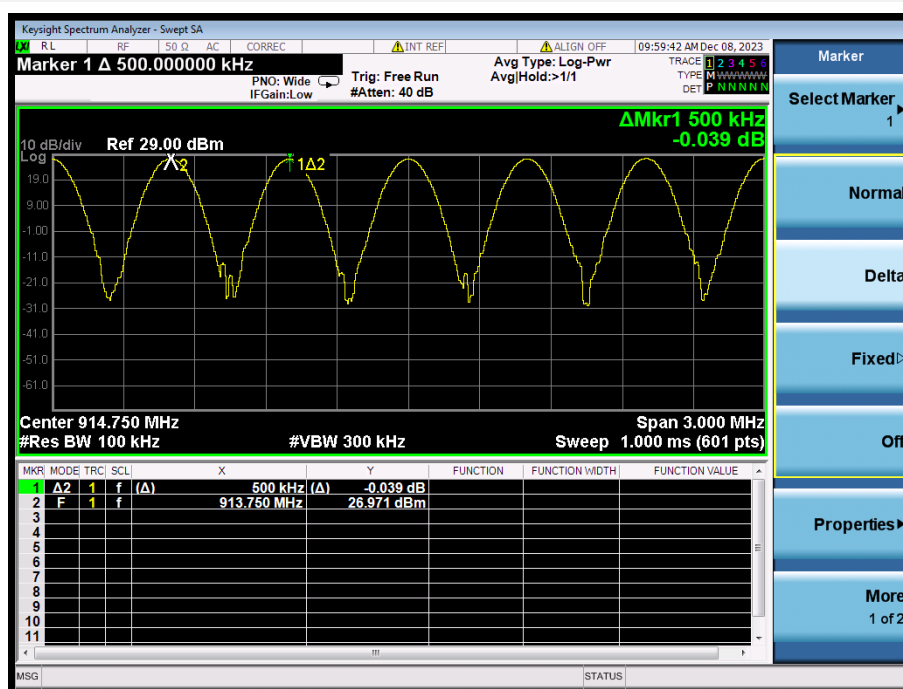
A.4 Hopping Frequency Separation

Test Data

Mode	Frequency separation (MHz)	2/3 of the 20 dB Bandwidth (MHz)	Verdict
RFID	0.500	0.087	Pass

Test Plots

RFID

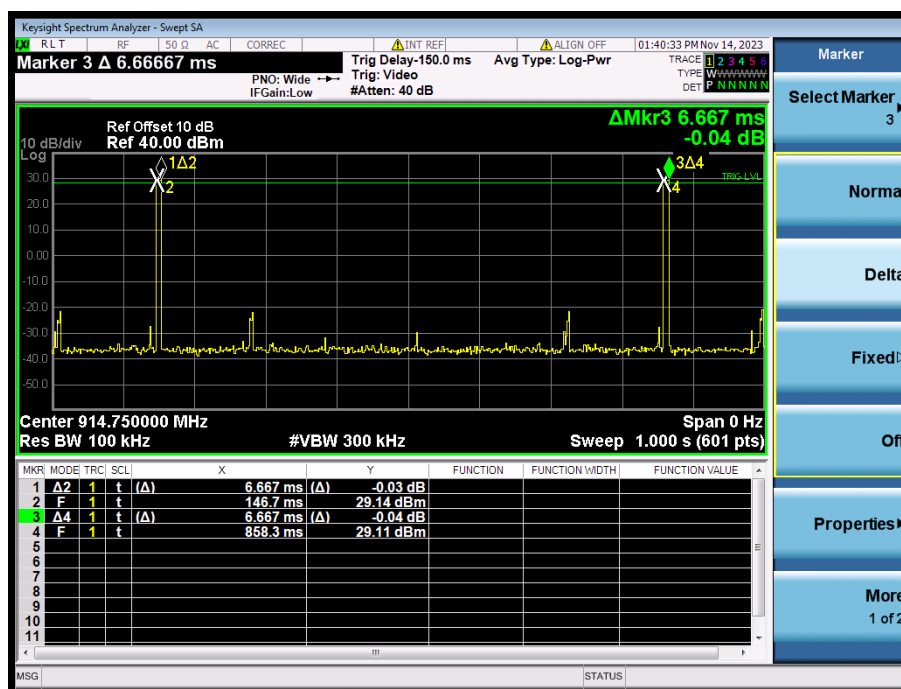


A.5 Average Time of Occupancy

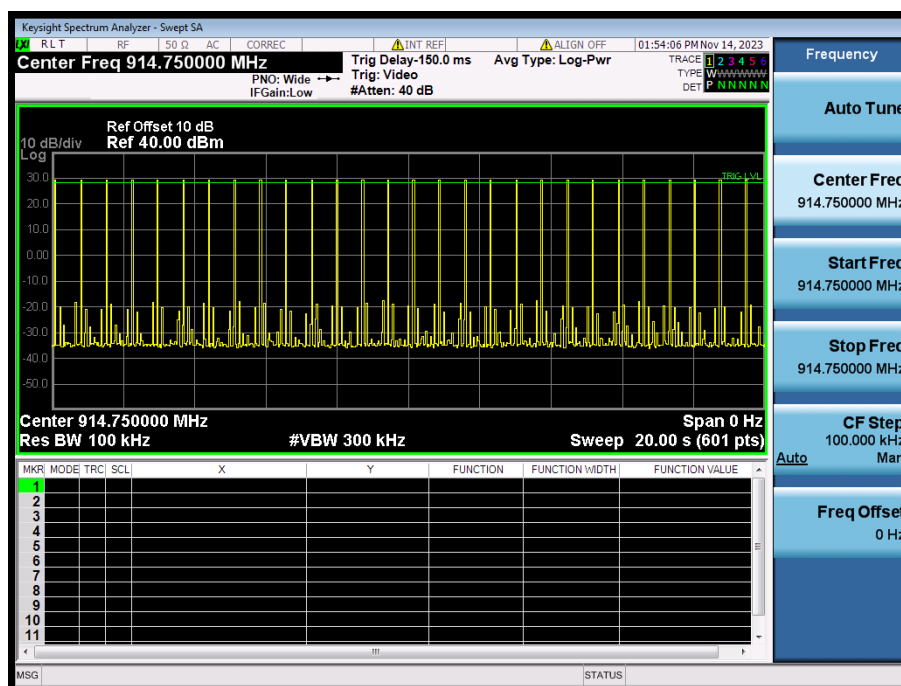
Test Data

Total of Dwell (ms)	Limit (sec)	Verdict
186.676	0.4	Pass

RFID-Pulse Width



RFID-Total of Dwell



A.6 Conducted Spurious Emissions & Authorized-band band-edge

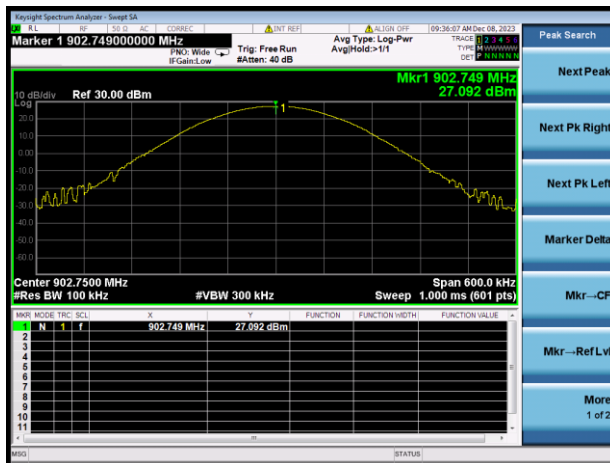
Test Data

RFID				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-13.77	27.09	7.09	Pass
Middle	-14.24	26.98	6.98	Pass
High	-14.57	27.13	7.13	Pass

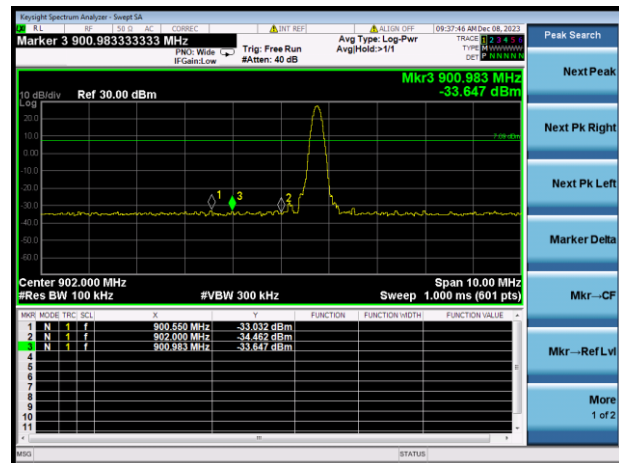
RFID				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Hopping	-13.70	27.23	7.23	Pass

Test Plots

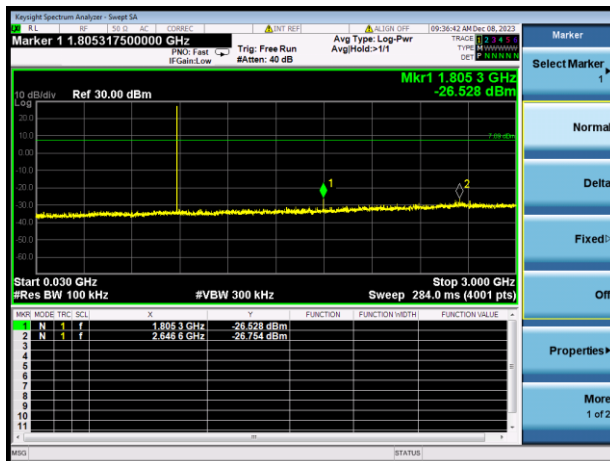
LOW CHANNEL, CARRIER LEVEL



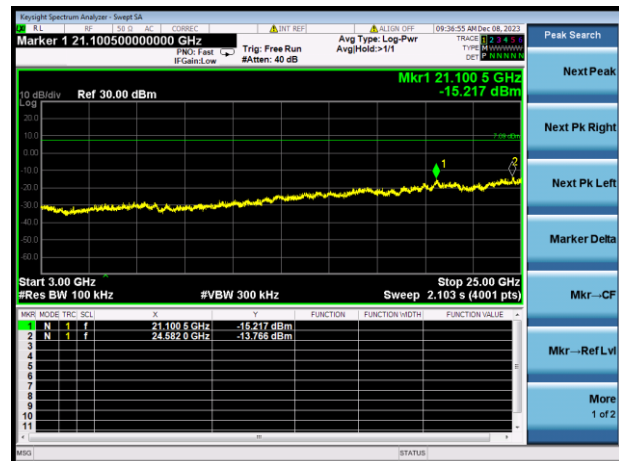
LOW CHANNEL, Band Edge



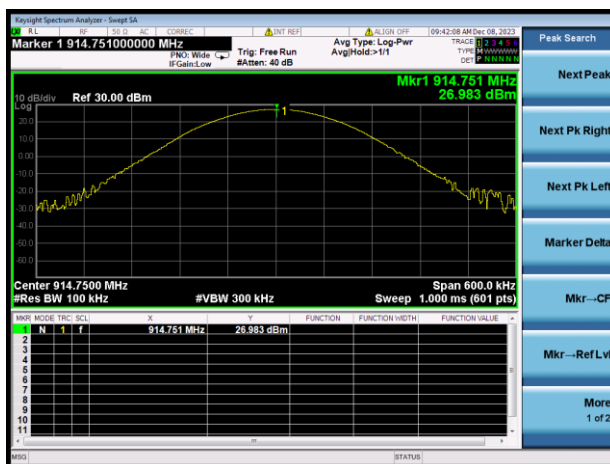
LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



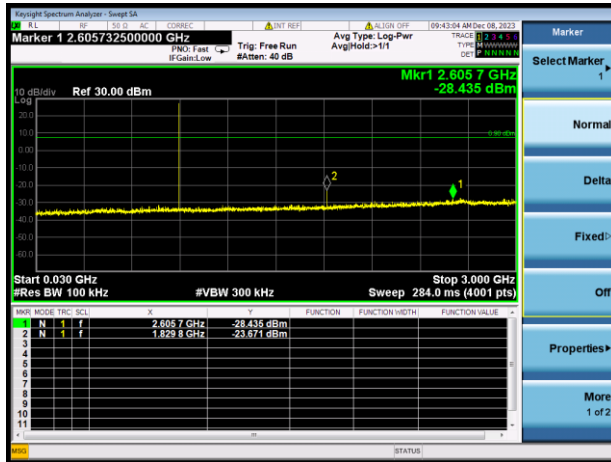
LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



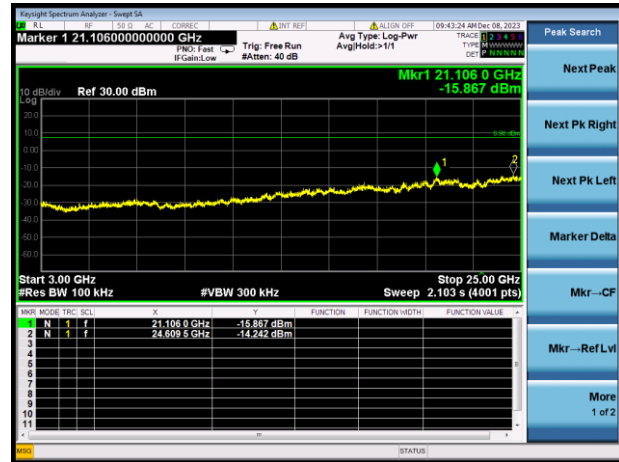
MIDDLE CHANNEL, CARRIER LEVEL



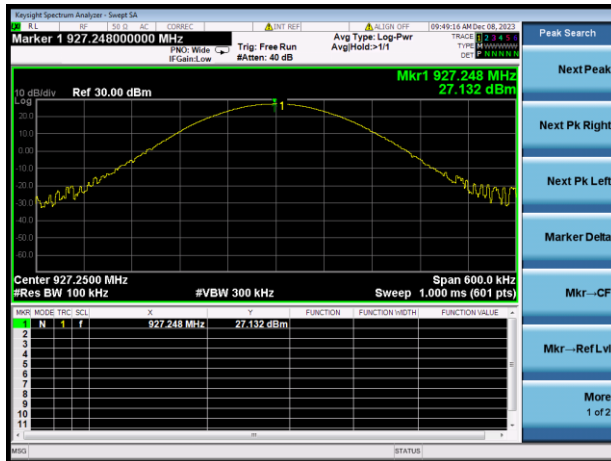
MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



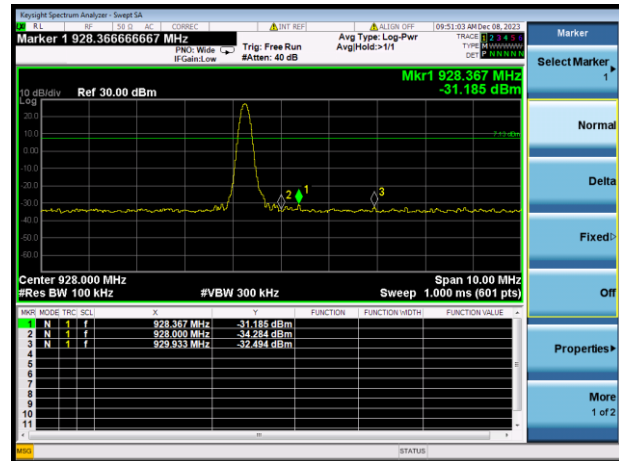
MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



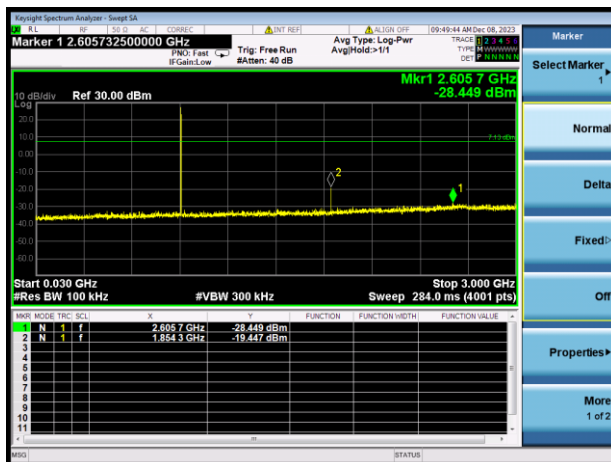
HIGH CHANNEL, CARRIER LEVEL



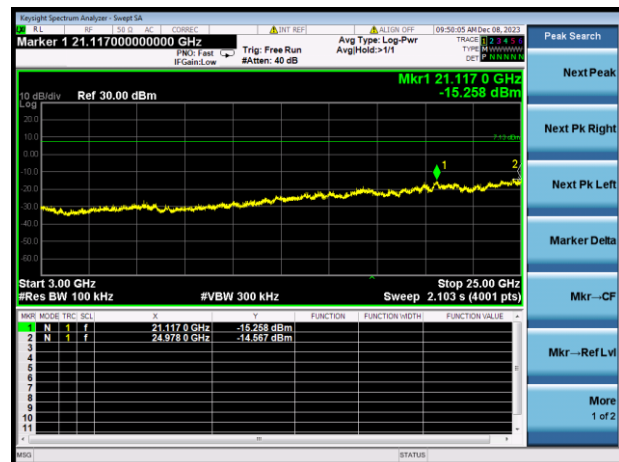
HIGH CHANNEL, BAND EDGE



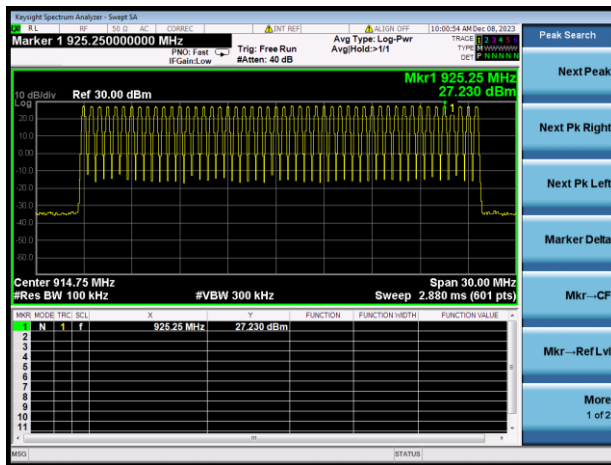
HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



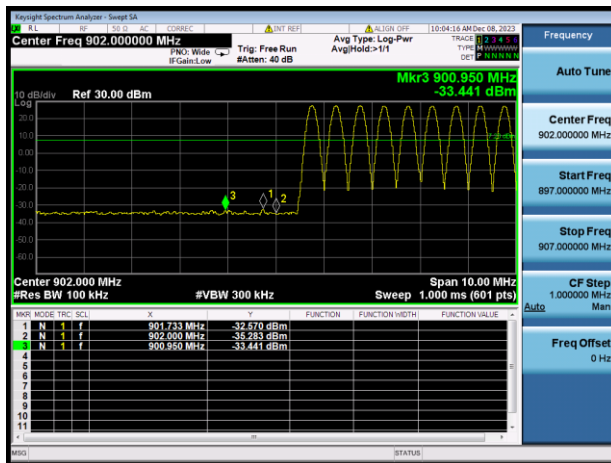
HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



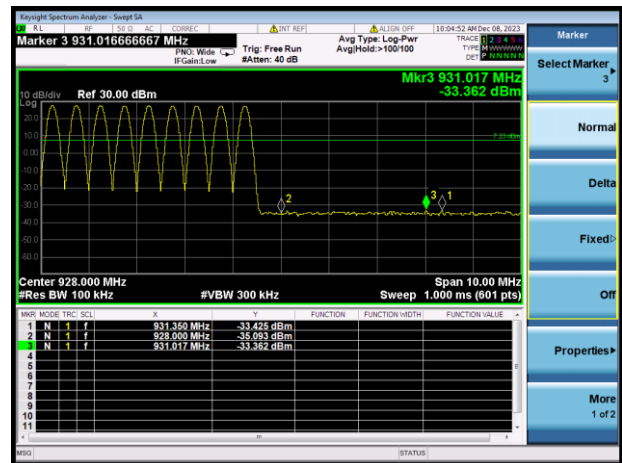
HOPPING, CARRIER LEVEL



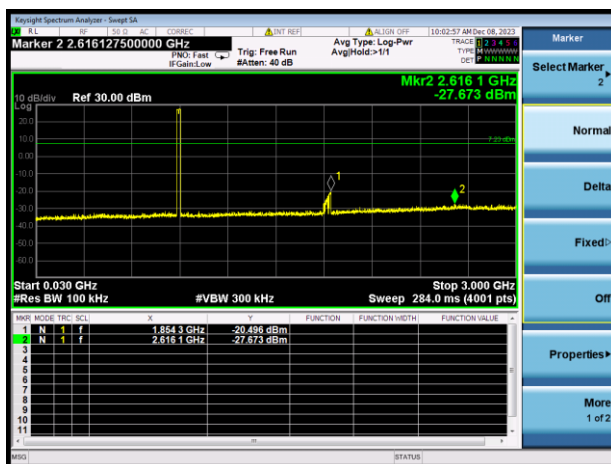
HOPPING BAND EDGE (LOW)



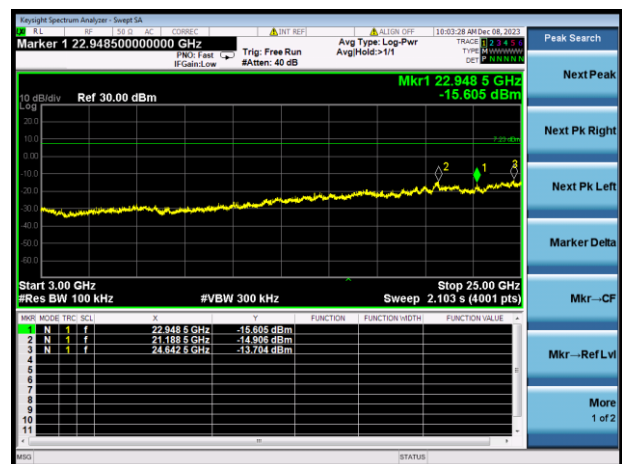
HOPPING BAND EDGE (HIGH)



HOPPING Mode, SPURIOUS 30 MHz ~ 3 GHz



Hopping Mode, SPURIOUS 3 GHz ~ 25 GHz



A.7 Conducted Emissions

Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

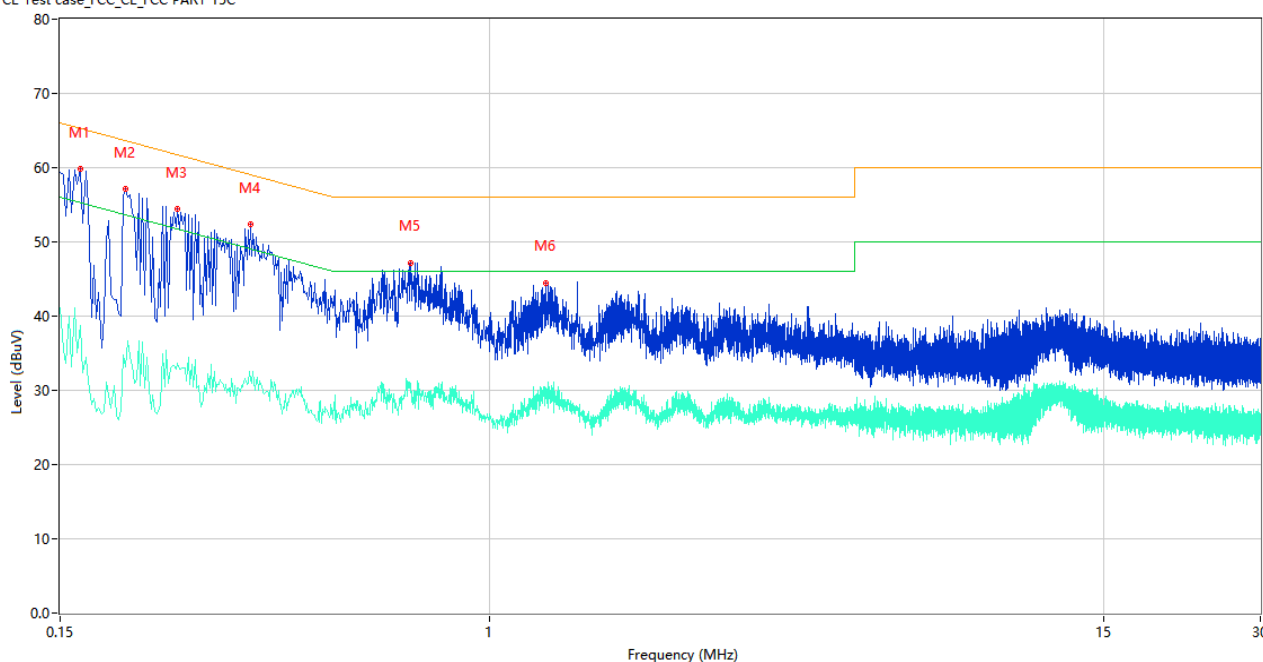
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

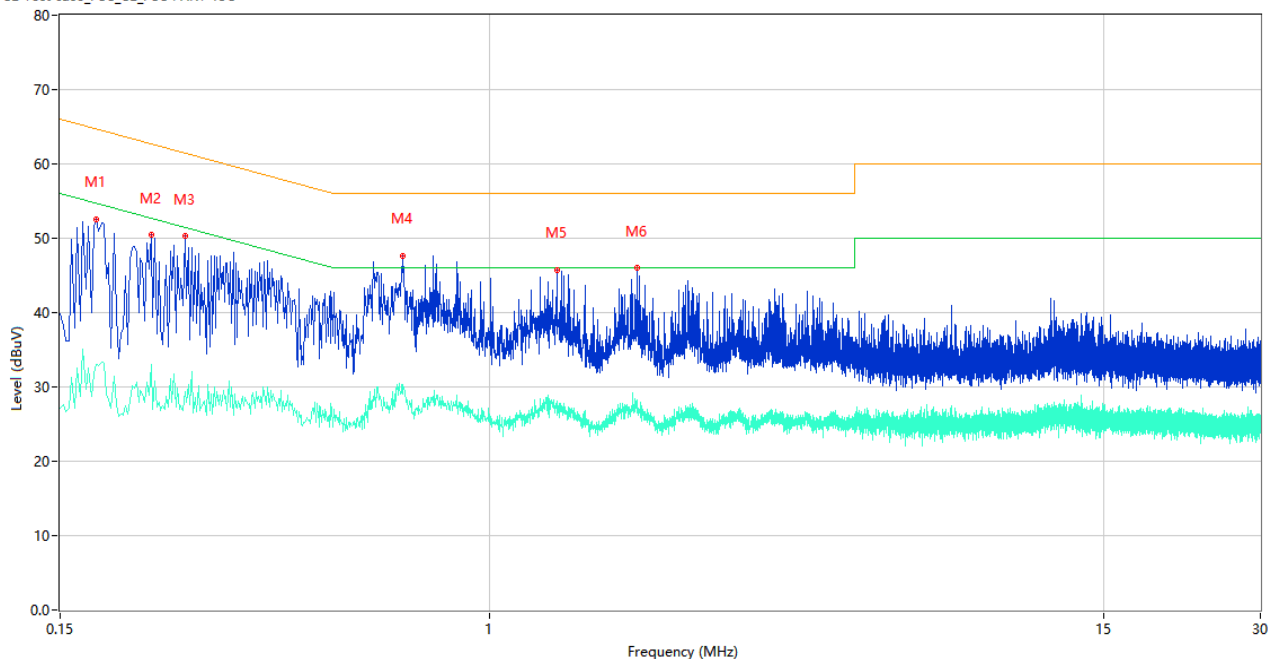
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	59.83	9.78	65.26	5.43	Peak	L	Pass
1**	0.164	38.80	9.78	55.26	16.46	AV	L	Pass
2	0.200	57.12	9.77	63.61	6.49	Peak	L	Pass
2**	0.200	33.13	9.77	53.61	20.48	AV	L	Pass
3	0.252	54.45	9.77	61.69	7.24	Peak	L	Pass
3**	0.252	33.67	9.77	51.69	18.02	AV	L	Pass
4	0.348	52.31	10.72	59.01	6.70	Peak	L	Pass
4**	0.348	31.38	10.72	49.01	17.63	AV	L	Pass
5	0.706	47.22	10.59	56.00	8.78	Peak	L	Pass
5**	0.706	30.92	10.59	46.00	15.08	AV	L	Pass
6	1.278	44.50	10.49	56.00	11.50	Peak	L	Pass
6**	1.278	30.04	10.49	46.00	15.96	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	52.54	9.78	64.67	12.13	Peak	N	Pass
1**	0.176	32.98	9.78	54.67	21.69	AV	N	Pass
2	0.224	50.40	9.77	62.67	12.27	Peak	N	Pass
2**	0.224	33.06	9.77	52.67	19.61	AV	N	Pass
3	0.260	50.31	9.76	61.43	11.12	Peak	N	Pass
3**	0.260	29.32	9.76	51.43	22.11	AV	N	Pass
4	0.682	47.67	10.50	56.00	8.33	Peak	N	Pass
4**	0.682	30.38	10.50	46.00	15.62	AV	N	Pass
5	1.344	45.75	10.06	56.00	10.25	Peak	N	Pass
5**	1.344	28.14	10.06	46.00	17.86	AV	N	Pass
6	1.912	45.96	10.59	56.00	10.04	Peak	N	Pass
6**	1.912	28.33	10.59	46.00	17.67	AV	N	Pass

A.8 Radiated Spurious Emission

Note ¹: The symbol of “--” in the table which means not application.

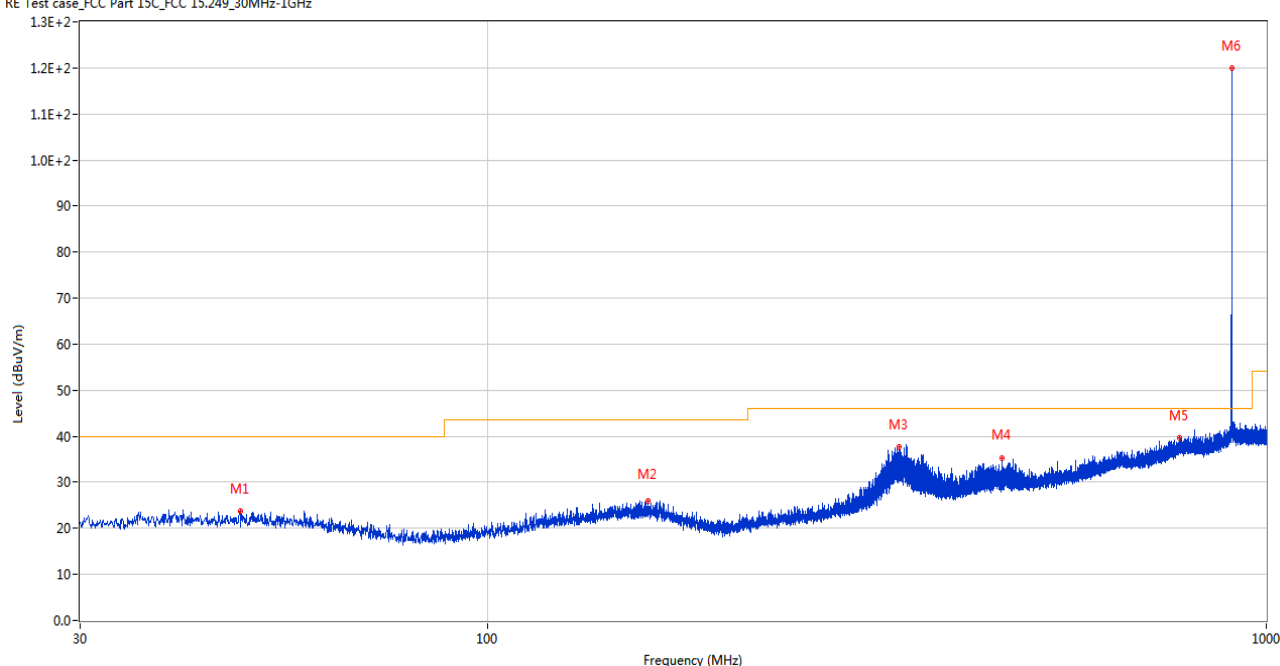
Note ²: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Test Data and Plots

LOW CHANNEL, 30 MHz to 1 GHz, ANT H

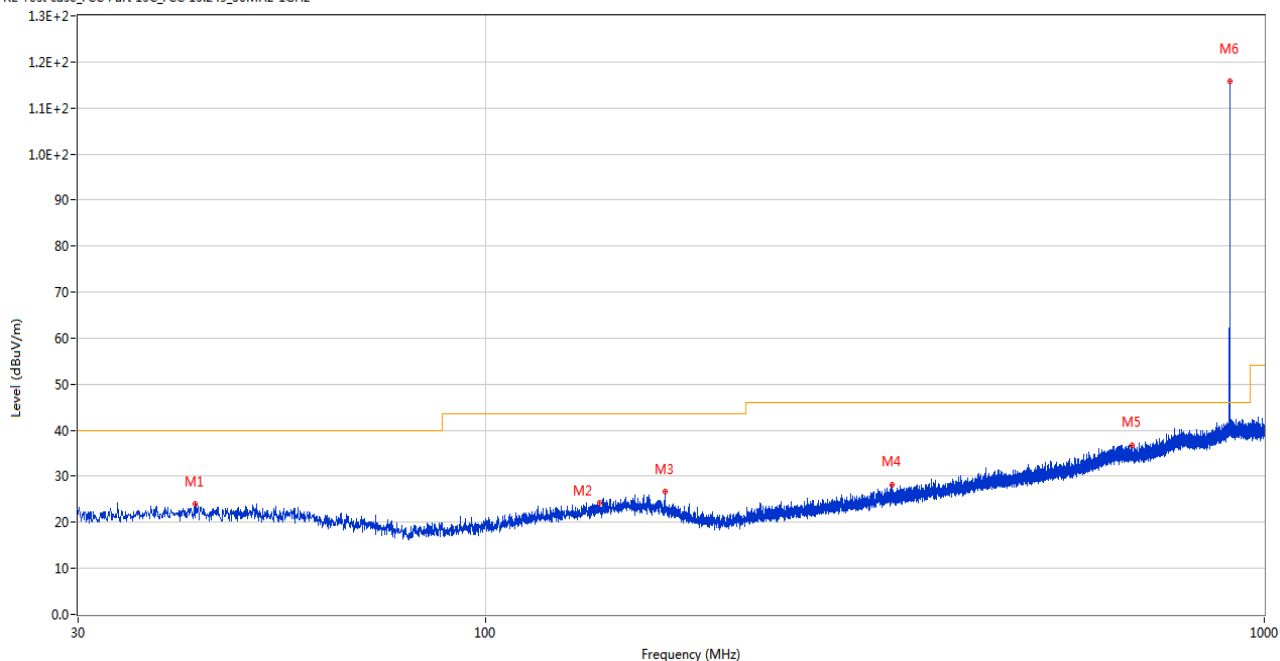
RE Test case_FCC Part 15C_FCC 15.249_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.139	23.72	-14.13	40.0	16.28	Peak	11.00	100	Horizontal	Pass
2	160.659	25.87	-12.35	43.5	17.63	Peak	28.00	100	Horizontal	Pass
3	337.830	37.68	-10.74	46.0	8.32	Peak	169.00	100	Horizontal	Pass
4	458.352	35.32	-7.18	46.0	10.68	Peak	293.00	100	Horizontal	Pass
5	773.990	39.67	1.98	46.0	6.33	Peak	82.00	100	Horizontal	Pass
6	902.758	119.88	4.48	46.0	-73.88	Peak	248.00	100	Horizontal	N/A

LOW CHANNEL, 30 MHz to 1 GHz, ANT V

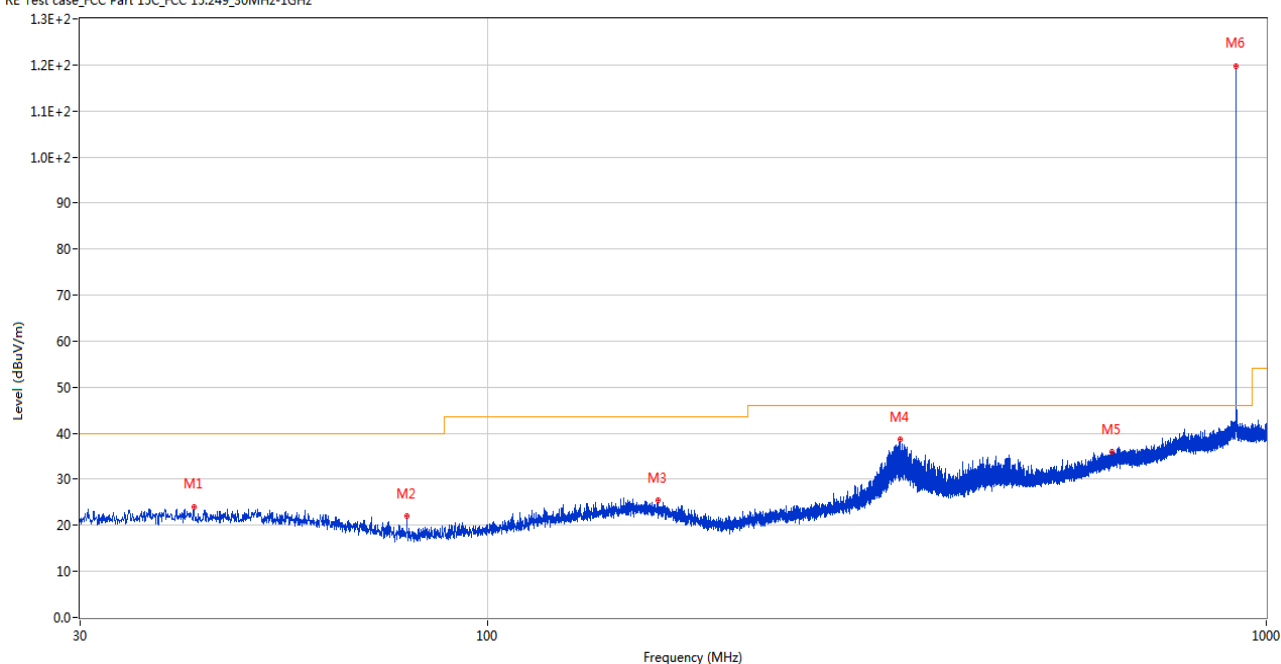
RE Test case_FCC Part 15C_FCC 15.249_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.416	23.95	-14.02	40.0	16.05	Peak	99.00	100	Vertical	Pass
2	140.240	24.34	-13.08	43.5	19.16	Peak	289.00	100	Vertical	Pass
3	170.214	26.69	-13.05	43.5	16.81	Peak	171.00	100	Vertical	Pass
4	332.543	28.23	-10.81	46.0	17.77	Peak	334.00	100	Vertical	Pass
5	676.893	36.85	-1.37	46.0	9.15	Peak	250.00	100	Vertical	Pass
6	902.758	115.81	4.48	46.0	-69.81	Peak	263.00	100	Vertical	N/A

MIDDLE CHANNEL, 30 MHz to 1 GHz, ANT H

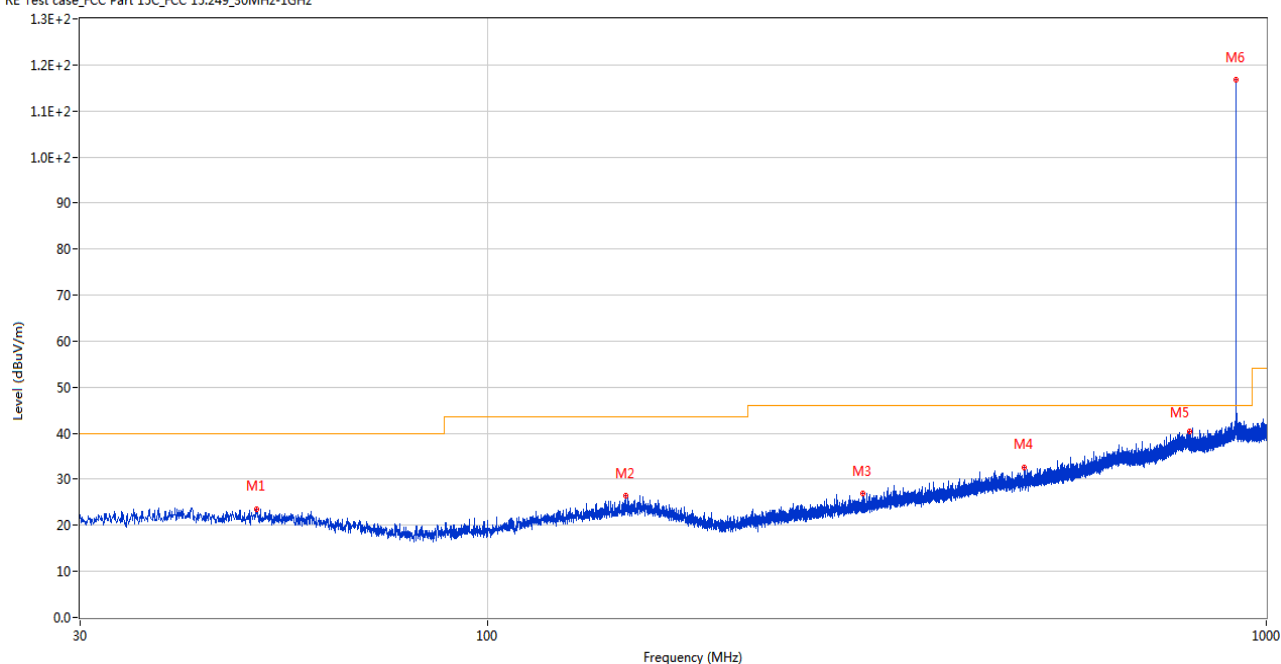
RE Test case_FCC Part 15C_FCC 15.249_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.980	24.08	-13.98	40.0	15.92	Peak	360.00	100	Horizontal	Pass
2	78.888	22.02	-17.80	40.0	17.98	Peak	42.00	100	Horizontal	Pass
3	165.557	25.35	-12.74	43.5	18.15	Peak	101.00	100	Horizontal	Pass
4	338.897	38.57	-10.77	46.0	7.43	Peak	132.00	100	Horizontal	Pass
5	634.359	35.96	-1.58	46.0	10.04	Peak	0.00	100	Horizontal	Pass
6	914.737	119.75	4.17	46.0	-73.75	Peak	249.00	100	Horizontal	N/A

MIDDLE CHANNEL, 30 MHz to 1 GHz, ANT V

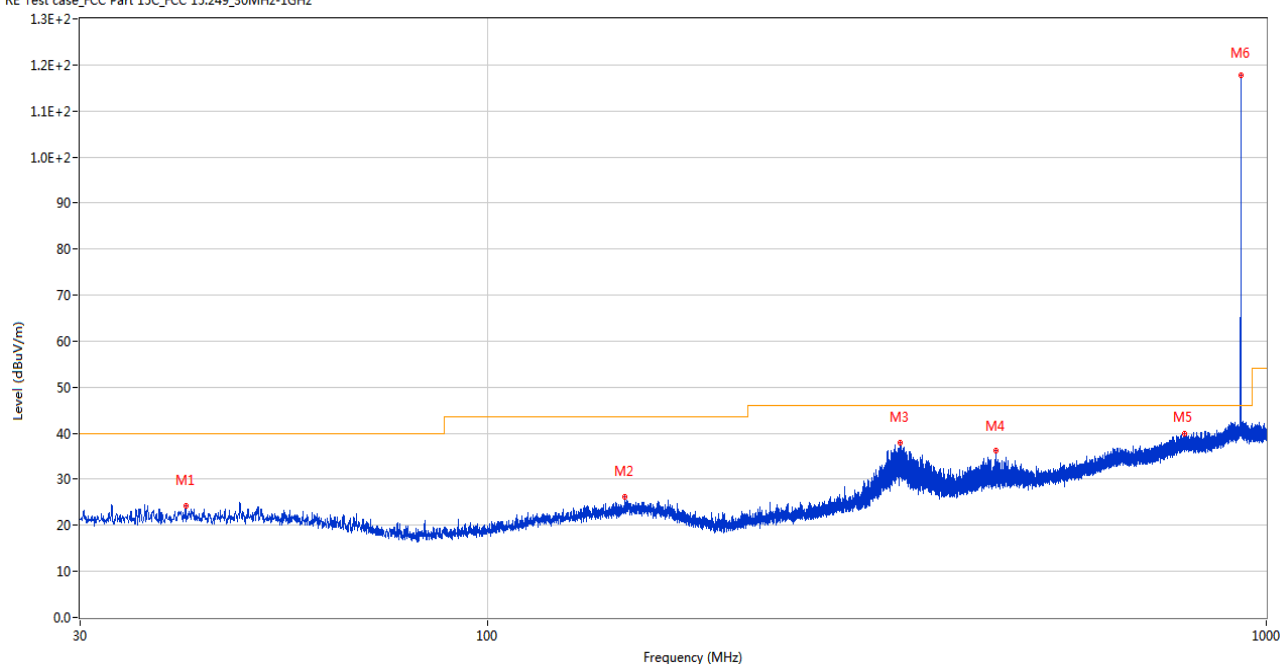
RE Test case_FCC Part 15C_FCC 15.249_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.564	23.56	-14.18	40.0	16.44	Peak	337.00	100	Vertical	Pass
2	150.377	26.38	-12.33	43.5	17.12	Peak	286.00	100	Vertical	Pass
3	303.249	26.93	-11.87	46.0	19.07	Peak	70.00	100	Vertical	Pass
4	488.664	32.67	-6.80	46.0	13.33	Peak	48.00	100	Vertical	Pass
5	796.446	40.34	1.90	46.0	5.66	Peak	88.00	100	Vertical	Pass
6	914.786	116.66	4.17	46.0	-70.66	Peak	253.00	100	Vertical	N/A

HIGH CHANNEL, 30 MHz to 1 GHz, ANT H

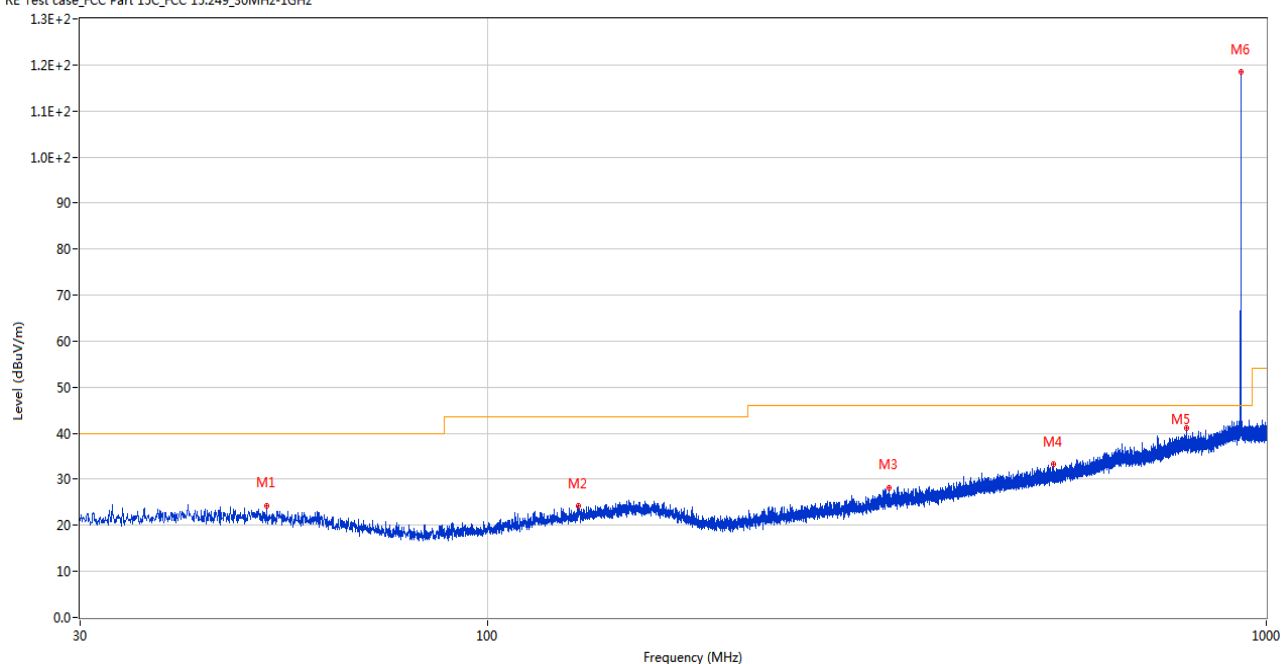
RE Test case_FCC Part 15C_FCC 15.249_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.010	24.27	-13.89	40.0	15.73	Peak	199.00	100	Horizontal	Pass
2	150.329	26.09	-12.32	43.5	17.41	Peak	145.00	100	Horizontal	Pass
3	338.799	38.05	-10.77	46.0	7.95	Peak	133.00	100	Horizontal	Pass
4	449.913	36.13	-7.17	46.0	9.87	Peak	241.00	100	Horizontal	Pass
5	785.533	39.89	2.22	46.0	6.11	Peak	360.00	100	Horizontal	Pass
6	927.250	117.69	4.08	46.0	-71.69	Peak	241.00	100	Horizontal	N/A

HIGH CHANNEL, 30 MHz to 1 GHz, ANT V

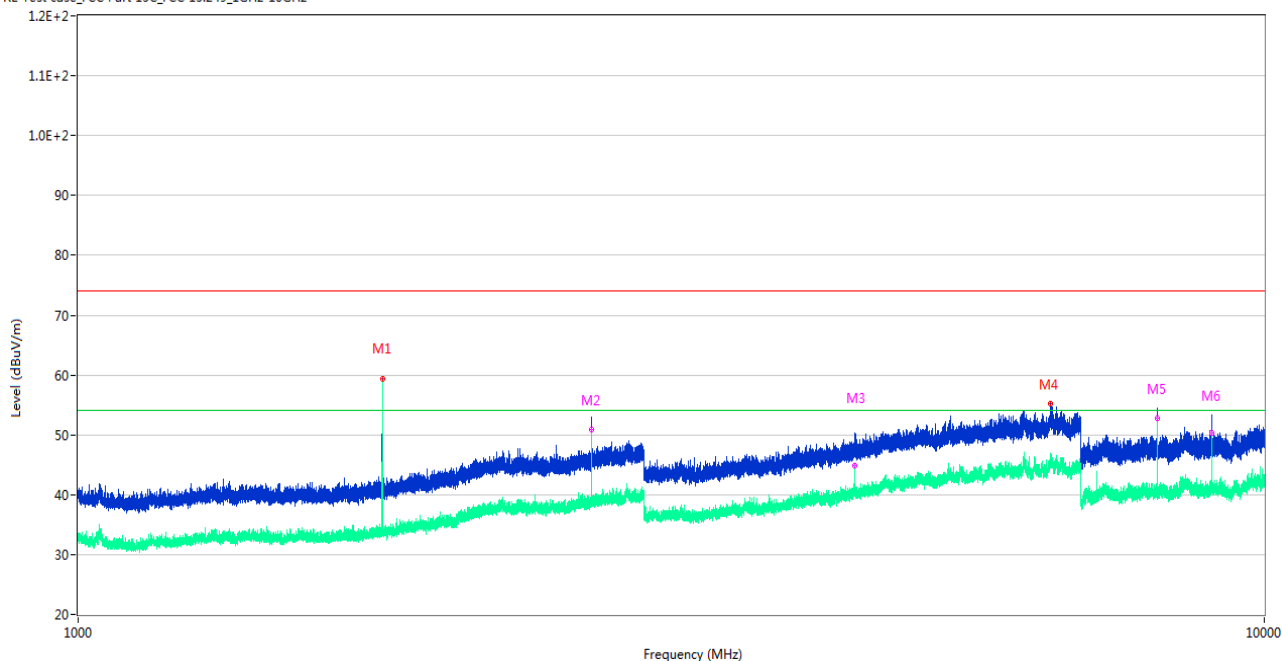
RE Test case_FCC Part 15C_FCC 15.249_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.019	24.31	-14.31	40.0	15.69	Peak	237.00	100	Vertical	Pass
2	130.686	24.20	-13.84	43.5	19.30	Peak	12.00	100	Vertical	Pass
3	328.081	28.23	-10.88	46.0	17.77	Peak	218.00	100	Vertical	Pass
4	532.703	33.18	-5.37	46.0	12.82	Peak	63.00	100	Vertical	Pass
5	791.062	41.09	2.17	46.0	4.91	Peak	157.00	100	Vertical	Pass
6	927.250	118.37	4.08	46.0	-72.37	Peak	256.00	100	Vertical	N/A

LOW CHANNEL 1 GHz to 10 GHz, ANT H

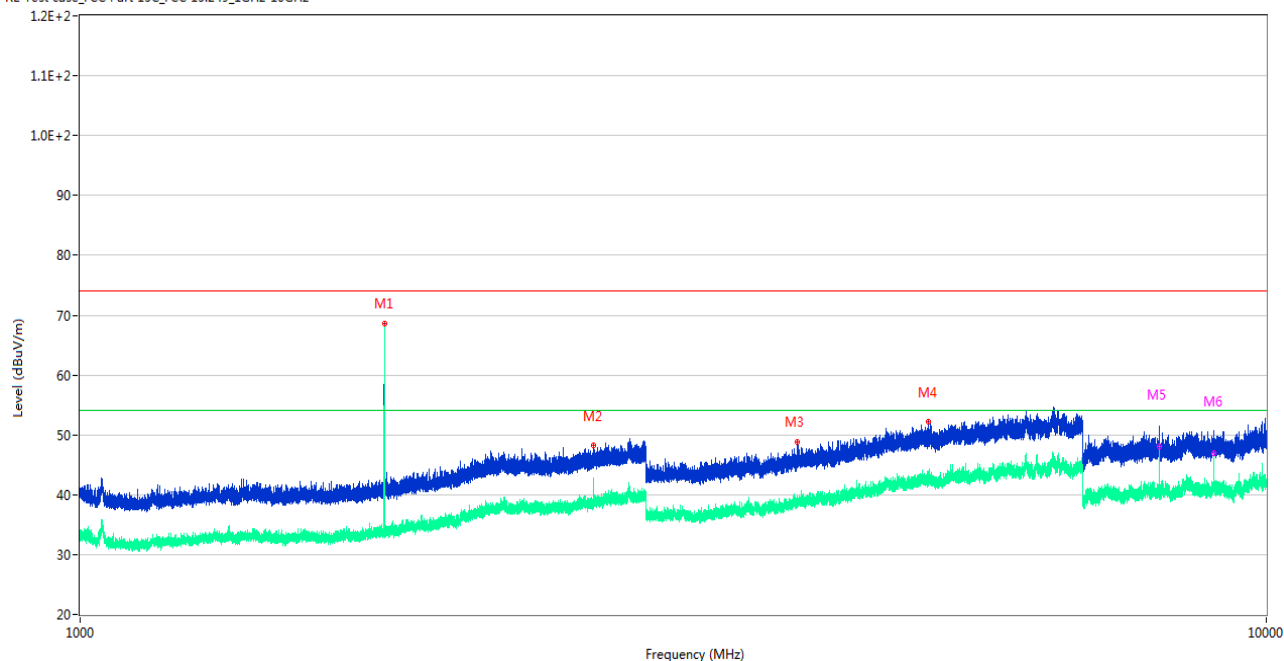
RE Test case_FCC Part 15C_FCC 15.249_1GHz-10GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1805.600	59.38	-13.03	74.0	14.62	Peak	245.00	150	Horizontal	Pass
1**	1805.600	58.99	-13.03	54.0	-4.99	AV	245.00	150	Horizontal	N/A
2	2708.300	52.55	-7.10	74.0	21.45	Peak	177.00	150	Horizontal	Pass
2**	2708.300	50.84	-7.10	54.0	3.16	AV	177.00	150	Horizontal	Pass
3	4514.000	47.31	-3.51	74.0	26.69	Peak	224.00	150	Horizontal	Pass
3**	4514.000	44.90	-3.51	54.0	9.10	AV	224.00	150	Horizontal	Pass
4	6608.400	55.14	1.57	74.0	18.86	Peak	193.00	150	Horizontal	Pass
4**	6608.400	46.38	1.57	54.0	7.62	AV	193.00	150	Horizontal	Pass
5	8124.850	53.64	-3.26	74.0	20.36	Peak	303.00	150	Horizontal	Pass
5**	8124.850	52.72	-3.26	54.0	1.28	AV	303.00	150	Horizontal	Pass
6	9027.550	53.19	-0.71	74.0	20.81	Peak	288.00	150	Horizontal	Pass
6**	9027.550	50.23	-0.71	54.0	3.77	AV	288.00	150	Horizontal	Pass

LOW CHANNEL 1 GHz to 10 GHz, ANT V

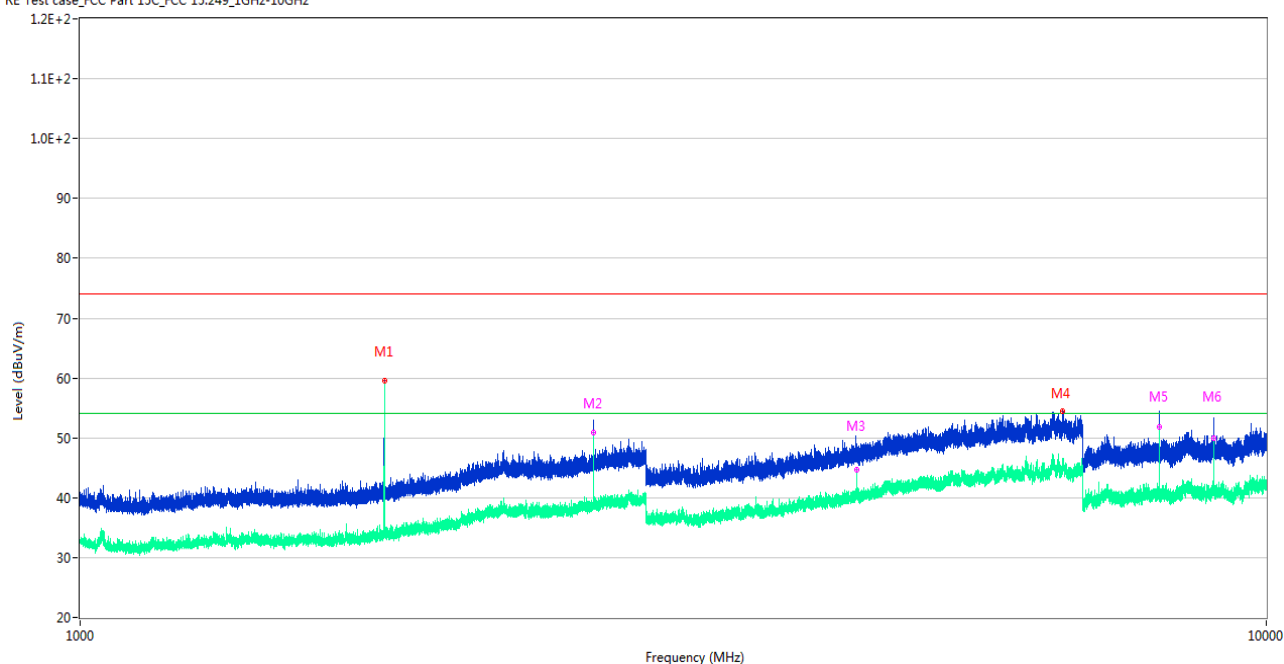
RE Test case_FCC Part 15C_FCC 15.249_1GHz-10GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1805.500	68.58	-13.02	74.0	5.42	Peak	226.00	150	Vertical	Pass
1**	1805.500	68.22	-13.02	54.0	-14.22	AV	226.00	150	Vertical	N/A
2	2708.200	48.33	-7.11	74.0	25.67	Peak	232.00	150	Vertical	Pass
2**	2708.200	42.21	-7.11	54.0	11.79	AV	232.00	150	Vertical	Pass
3	4022.400	48.78	-4.80	74.0	25.22	Peak	226.00	150	Vertical	Pass
3**	4022.400	38.94	-4.80	54.0	15.06	AV	226.00	150	Vertical	Pass
4	5192.000	52.18	-2.73	74.0	21.82	Peak	332.00	150	Vertical	Pass
4**	5192.000	41.79	-2.73	54.0	12.21	AV	332.00	150	Vertical	Pass
5	8125.000	51.42	-3.25	74.0	22.58	Peak	226.00	150	Vertical	Pass
5**	8125.000	48.11	-3.25	54.0	5.89	AV	226.00	150	Vertical	Pass
6	9027.700	49.90	-0.72	74.0	24.10	Peak	273.00	150	Vertical	Pass
6**	9027.700	46.88	-0.72	54.0	7.12	AV	273.00	150	Vertical	Pass

MIDDLE CHANNEL 1 GHz to 10 GHz, ANT H

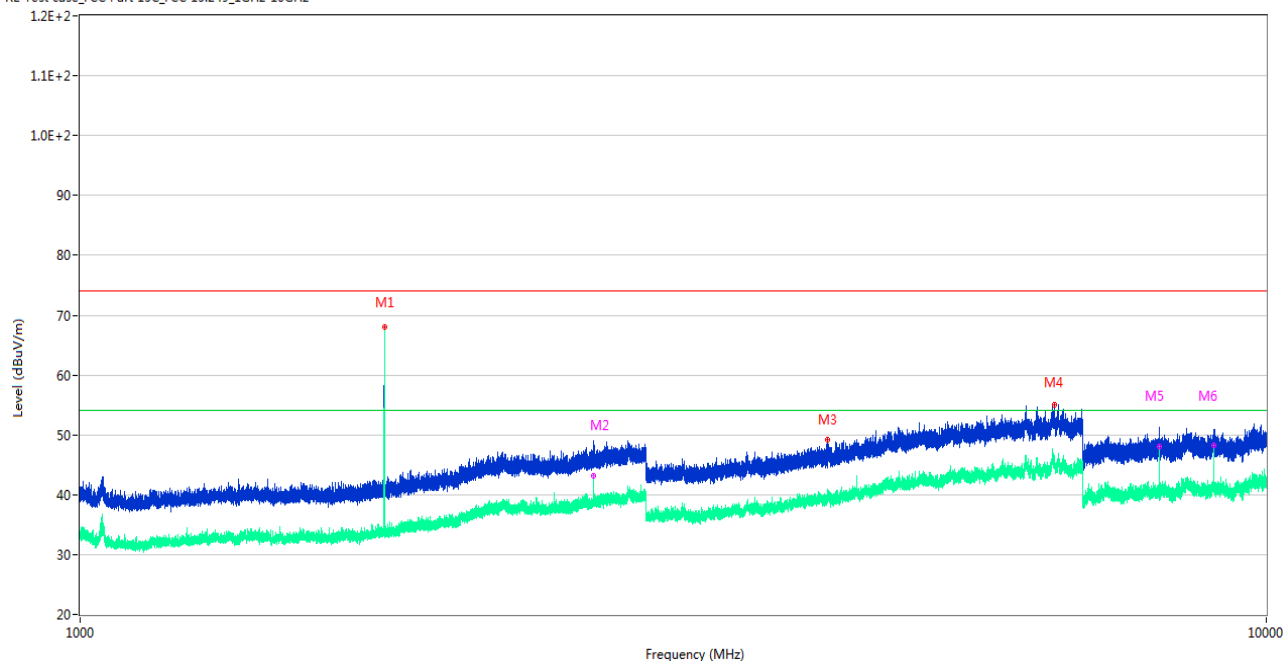
RE Test case_FCC Part 15C_FCC 15.249_1GHz-10GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1805.500	59.53	-13.02	74.0	14.47	Peak	243.00	150	Horizontal	Pass
1**	1805.500	58.93	-13.02	54.0	-4.93	AV	243.00	150	Horizontal	N/A
2	2708.300	52.88	-7.10	74.0	21.12	Peak	183.00	150	Horizontal	Pass
2**	2708.300	50.81	-7.10	54.0	3.19	AV	183.00	150	Horizontal	Pass
3	4513.600	48.33	-3.52	74.0	25.67	Peak	216.00	150	Horizontal	Pass
3**	4513.600	44.60	-3.52	54.0	9.40	AV	216.00	150	Horizontal	Pass
4	6738.200	54.51	0.49	74.0	19.49	Peak	17.00	150	Horizontal	Pass
4**	6738.200	45.33	0.49	54.0	8.67	AV	17.00	150	Horizontal	Pass
5	8124.850	54.46	-3.26	74.0	19.54	Peak	302.00	150	Horizontal	Pass
5**	8124.850	51.82	-3.26	54.0	2.18	AV	302.00	150	Horizontal	Pass
6	9027.700	51.53	-0.72	74.0	22.47	Peak	272.00	150	Horizontal	Pass
6**	9027.700	49.96	-0.72	54.0	4.04	AV	272.00	150	Horizontal	Pass

MIDDLE CHANNEL 1 GHz to 10 GHz, ANT V

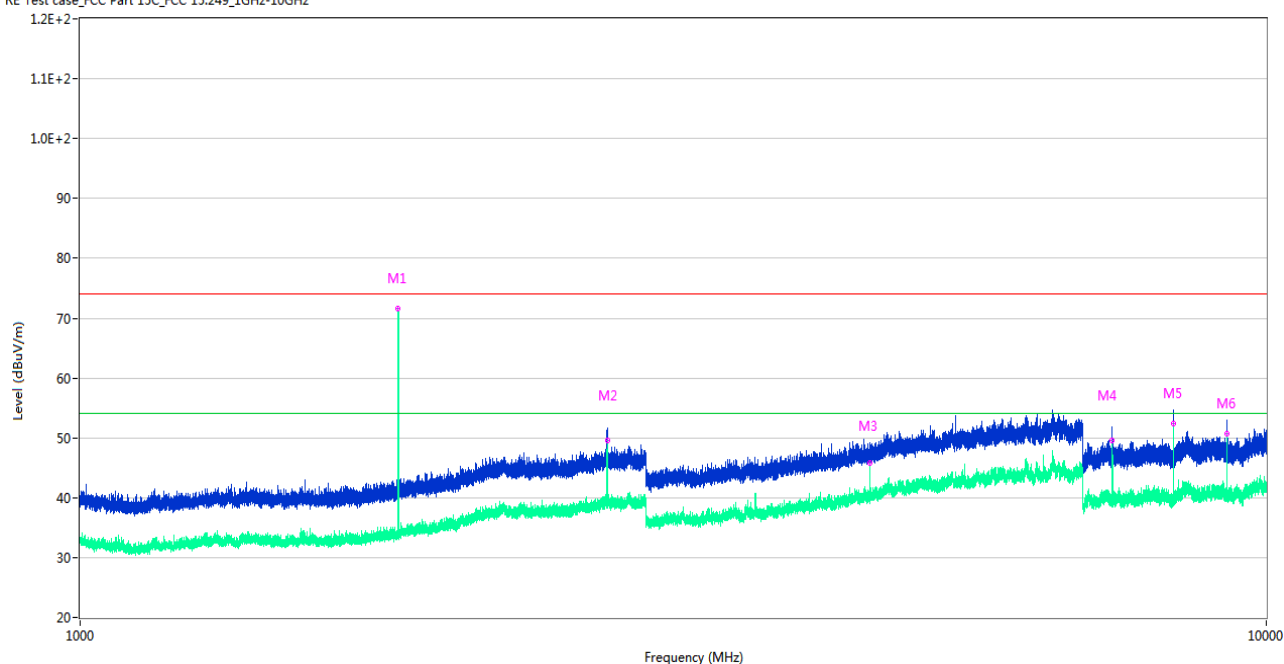
RE Test case_FCC Part 15C_FCC 15.249_1GHz-10GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1805.500	68.09	-13.02	74.0	5.91	Peak	233.00	150	Vertical	Pass
1**	1805.500	67.80	-13.02	54.0	-13.80	AV	233.00	150	Vertical	N/A
2	2708.000	47.53	-7.12	74.0	26.47	Peak	280.00	150	Vertical	Pass
2**	2708.000	43.21	-7.12	54.0	10.79	AV	280.00	150	Vertical	Pass
3	4270.400	49.22	-4.55	74.0	24.78	Peak	353.00	150	Vertical	Pass
3**	4270.400	40.12	-4.55	54.0	13.88	AV	353.00	150	Vertical	Pass
4	6631.000	55.09	0.84	74.0	18.91	Peak	342.00	150	Vertical	Pass
4**	6631.000	45.24	0.84	54.0	8.76	AV	342.00	150	Vertical	Pass
5	8124.700	50.56	-3.27	74.0	23.44	Peak	226.00	150	Vertical	Pass
5**	8124.700	48.06	-3.27	54.0	5.94	AV	226.00	150	Vertical	Pass
6	9027.401	50.43	-0.71	74.0	23.57	Peak	272.00	150	Vertical	Pass
6**	9027.401	48.28	-0.71	54.0	5.72	AV	272.00	150	Vertical	Pass

HIGH CHANNEL 1 GHz to 10 GHz, ANT H

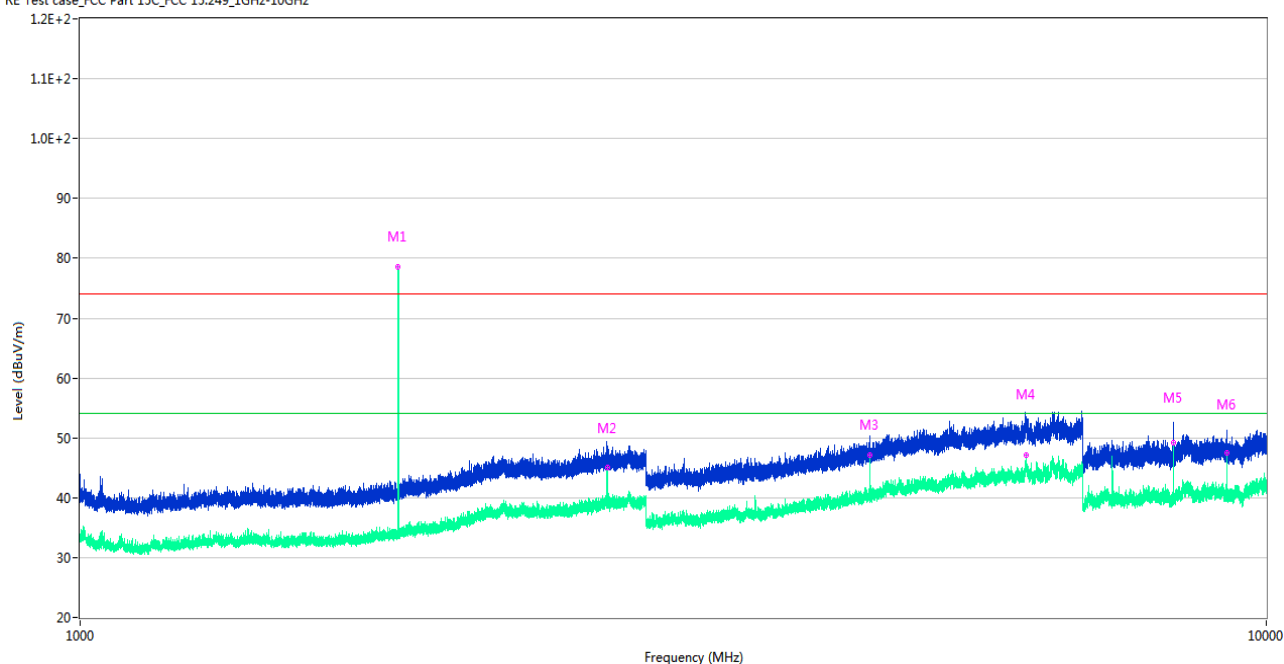
RE Test case_FCC Part 15C_FCC 15.249_1GHz-10GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1854.700	71.60	-12.84	74.0	2.40	Peak	205.00	150	Horizontal	N/A
1**	1854.700	71.67	-12.84	54.0	-17.67	AV	205.00	150	Horizontal	N/A
2	2781.900	50.58	-6.15	74.0	23.42	Peak	174.00	150	Horizontal	Pass
2**	2781.900	49.60	-6.15	54.0	4.40	AV	174.00	150	Horizontal	Pass
3	4636.600	49.27	-4.04	74.0	24.73	Peak	201.00	150	Horizontal	Pass
3**	4636.600	45.88	-4.04	54.0	8.12	AV	201.00	150	Horizontal	Pass
4	7418.200	50.94	-3.77	74.0	23.06	Peak	260.00	150	Horizontal	Pass
4**	7418.200	49.61	-3.77	54.0	4.39	AV	260.00	150	Horizontal	Pass
5	8345.500	54.35	-2.05	74.0	19.65	Peak	226.00	150	Horizontal	Pass
5**	8345.500	52.41	-2.05	54.0	1.59	AV	226.00	150	Horizontal	Pass
6	9272.651	51.58	-1.47	74.0	22.42	Peak	314.00	150	Horizontal	Pass
6**	9272.651	50.78	-1.47	54.0	3.22	AV	314.00	150	Horizontal	Pass

HIGH CHANNEL 1 GHz to 10 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.249_1GHz-10GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1854.600	78.69	-12.84	74.0	-4.69	Peak	223.00	150	Vertical	N/A
1**	1854.600	78.65	-12.84	54.0	-24.65	AV	223.00	150	Vertical	N/A
2	2781.800	48.11	-6.15	74.0	25.89	Peak	168.00	150	Vertical	Pass
2**	2781.800	45.03	-6.15	54.0	8.97	AV	168.00	150	Vertical	Pass
3	4636.400	48.82	-4.03	74.0	25.18	Peak	268.00	150	Vertical	Pass
3**	4636.400	47.13	-4.03	54.0	6.87	AV	268.00	150	Vertical	Pass
4	6270.200	52.59	0.46	74.0	21.41	Peak	143.00	150	Vertical	Pass
4**	6270.200	47.04	0.46	54.0	6.96	AV	143.00	150	Vertical	Pass
5	8345.350	52.14	-2.07	74.0	21.86	Peak	214.00	150	Vertical	Pass
5**	8345.350	49.24	-2.07	54.0	4.76	AV	214.00	150	Vertical	Pass
6	9272.651	51.29	-1.47	74.0	22.71	Peak	247.00	150	Vertical	Pass
6**	9272.651	47.55	-1.47	54.0	6.45	AV	247.00	150	Vertical	Pass

A.9 Band Edge (Restricted-band band-edge)

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

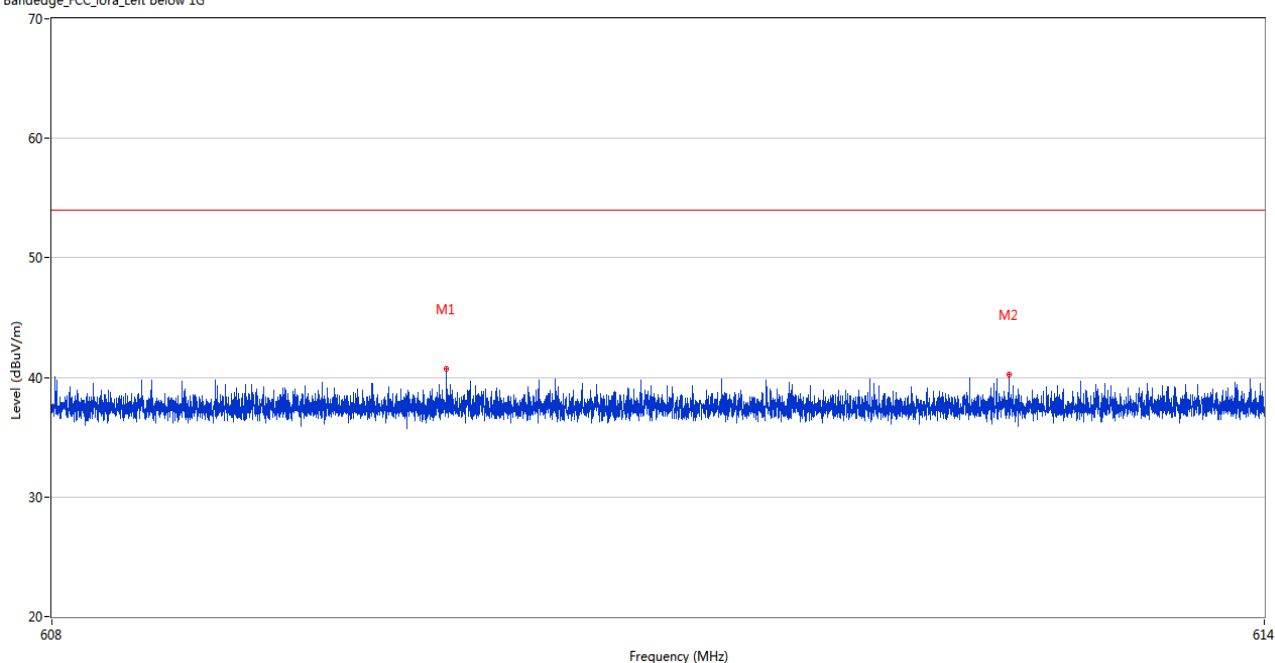
Note 3: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 4: The Level (dBuV/m) has been corrected by factor.

Test Data and Plots

LOW CHANNEL

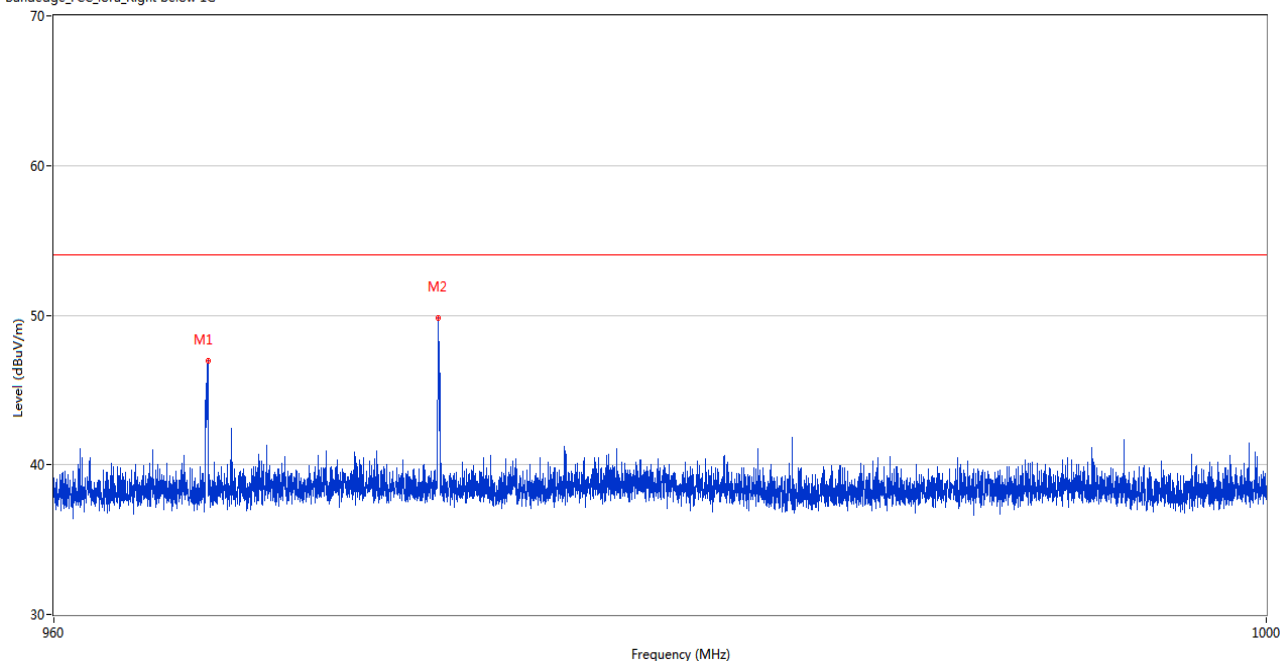
Bandedge_FCC_lora_Left below 1G



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	609.947	40.70	3.08	54.0	13.30	Peak	330.00	150	Horizontal	Pass
2	612.732	40.21	3.13	54.0	13.79	Peak	98.00	150	Horizontal	Pass

HIGH CHANNEL

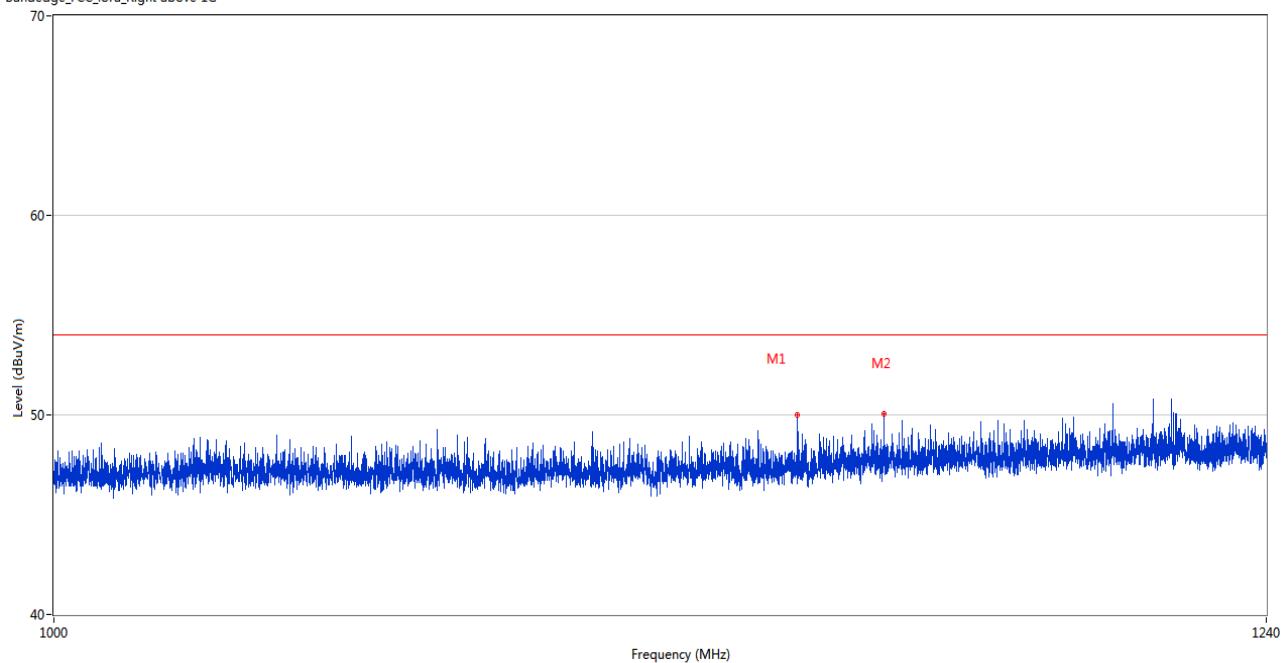
Bandedge_FCC_Jora_Right below 1G



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	964.987	46.94	-3.56	54.0	7.06	Peak	25.00	100	Horizontal	Pass
2	972.487	49.81	-3.30	54.0	4.19	Peak	96.00	100	Horizontal	Pass

HIGH CHANNEL

Bandedge_FCC_Jora_Right above 1G



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1141.040	49.99	-6.24	54.0	4.01	Peak	173.00	100	Horizontal	Pass
2	1158.760	50.05	-5.90	54.0	3.95	Peak	205.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ23A1194-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ23A1194-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ23A1194-AI.PDF”.

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--END OF REPORT--