

# RF

# TEST REPORT

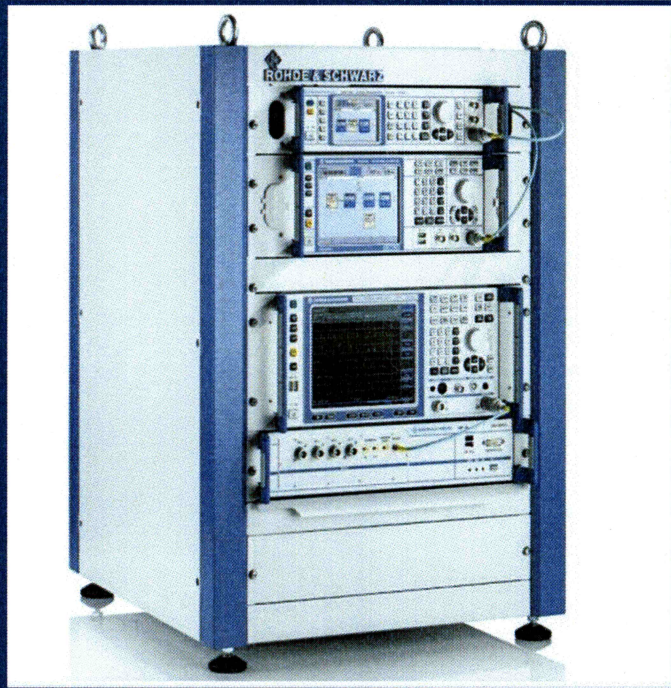
ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**Temperature & Humidity Sensor**

ISSUED TO  
CenTrak Inc

826 NewtownYardley Road, Newtown, Pennsylvania 18940, United States



Tested by: Zhu Minjing  
Zhu Minjing

Date Dec. 16, 2021

Approved by: Wei Yanquan

Wei Yanquan  
(Chief Engineer)

Date Dec. 16, 2021

Report No.: BL-SZ2190868-602

EUT Name: Temperature & Humidity Sensor

Model Name: ITD-7366R H (refer section 2.4)

Brand Name: CENTRAK

Test Standard: 47 CFR Part 15 Subpart C

RSS-210 Issue 10

RSS-Gen Issue 5

(refer section 3.1)

FCC ID: ST2-ITD73XXRH

ISED Number 6012A-ITD73XXRH

Test Conclusion: Pass

Test Date: Sep. 30, 2021 ~ Oct. 22, 2021

Date of Issue: Dec. 16, 2021

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**Revision History**

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Dec. 16, 2021</u>	<u>Initial Issue</u>

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# 1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

## 1.1 Identification of the Testing Laboratory

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

## 1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

## 1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

## 1.4 Announce

- (1) The test report reference to the report template version v6.9.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	CenTrak Inc
Address	826 NewtownYardley Road, Newtown, Pennsylvania 18940, United States

### 2.2 Manufacturer Information

Manufacturer	CenTrak Inc
Address	826 NewtownYardley Road, Newtown, Pennsylvania 18940, United States

### 2.3 Factory Information

Factory	Concord Intelligent Technology (Huizhou) Ltd.
Address	25, Ping An Rd, Shuikou Street, Hui Cheng District, Huizhou City, Guangdong Province, China

### 2.4 General Description for Equipment under Test (EUT)

EUT Name	Temperature & Humidity Sensor
Model Name Under Test	ITD-7366R H
Series Model Name	ITD-7333R H
Description of Model name differentiation	ITD-7366R H and ITD-7333R H use same HW configuration. Different model numbers used to distinguish multiple business purposes.
Serial Number	1709S01463770
Hardware Version	Version D (08/12/21)
Software Version	V35.2.3
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

## 2.5 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Modulation Type	GFSK
Product Type	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Frequency Range	902 MHz to 928 MHz
Tested Channel	904 MHz, 915 MHz, 922 MHz, 926 MHz
Antenna Type	PCB Antenna
Antenna Gain	2.3 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)

## 2.6 Additional Instructions

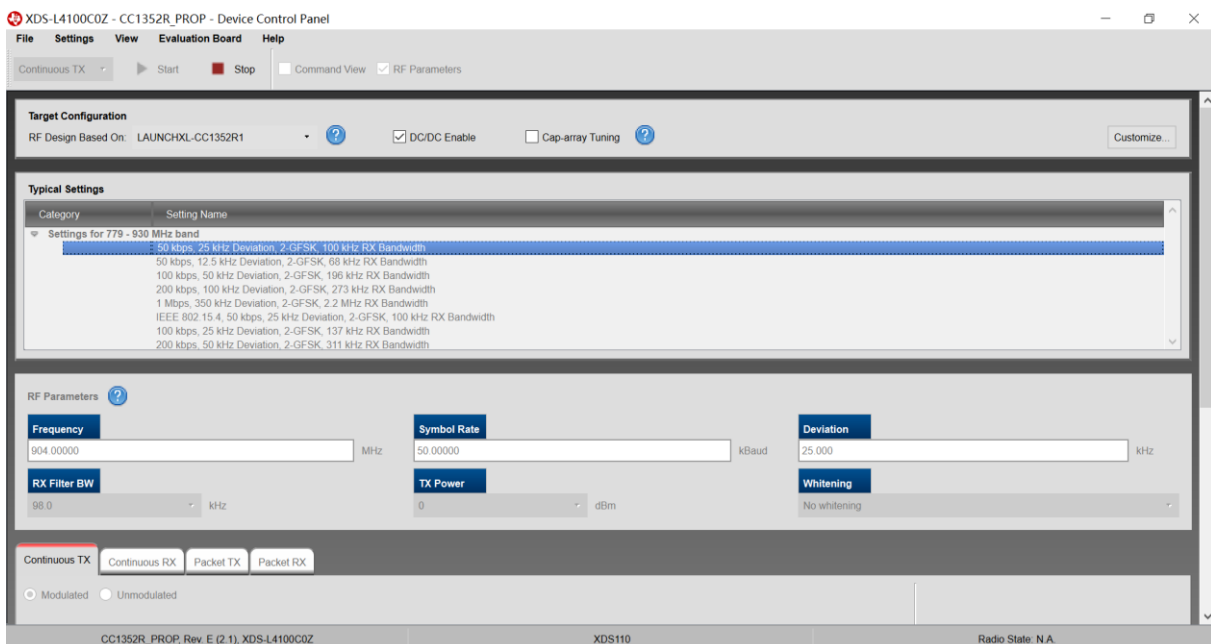
EUT Software Settings:

Mode	<input checked="" type="checkbox"/> Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
------	--

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power level setup in software			
Test Software Version	Setup_SmartRF_Studio_7-2.22.0		
Support Units (Software installation media)	Description	Manufacturer	Model
	Notebook	HP	N/A
Mode	Channel	Frequency (MHz)	Soft Set
GFSK	904	904	Power parameter Settings is 0
	915	915	
	922	922	
	926	926	

Run Software:



### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
2	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-210 Issue 10	Licence-Exempt Radio Apparatus: Category I Equipment
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

#### 3.2 Verdict

No.	Description	FCC Part No.	ISED Part No.	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	RSS-Gen 6.8	--	Pass	Note <sup>1</sup>
2	20 dB and 99% Bandwidth	15.215(c)	RSS-Gen 6.7	ANNEX A.1	Pass	--
3	AC Conducted Emission	15.207	RSS-Gen 8.8	ANNEX A.2	Pass	--
4	Field Strength of Fundamental Emissions	15.249(a)	RSS-Gen 8.9	ANNEX A.3	Pass	
5	Radiated Emission Test Band Edge Measurement	15.249(a) 15.249(d) 15.209	RSS-210 B.10 RSS-Gen 8.9 RSS-Gen 8.10	ANNEX A.4	Pass	Note <sup>2</sup>

Note<sup>1</sup>: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note<sup>2</sup>: the limit is 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209



## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

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

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	3.6 V

### 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2021.04.01	2022.03.31
Bluetooth Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.06.01	2022.05.31
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.06.01	2022.05.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.06.01	2022.05.31
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2019.07.02	2022.07.01
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2021.07.02	2023.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2022.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2019.08.08	2022.08.07
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

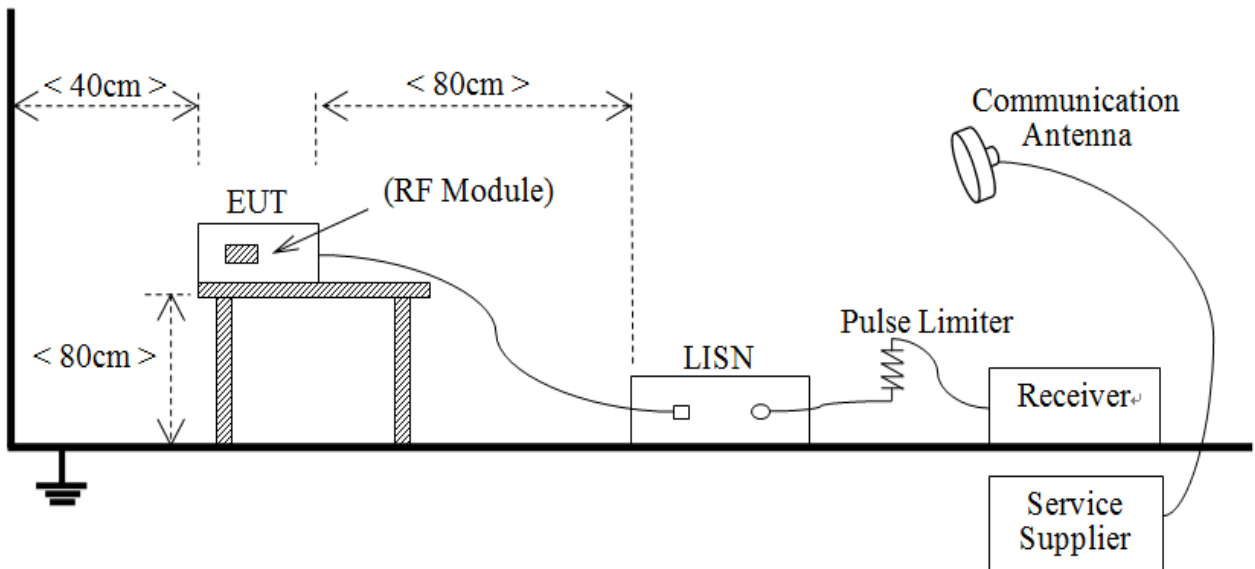
### 4.3 Description of Test Setup

#### 4.3.1 For Antenna Port Test



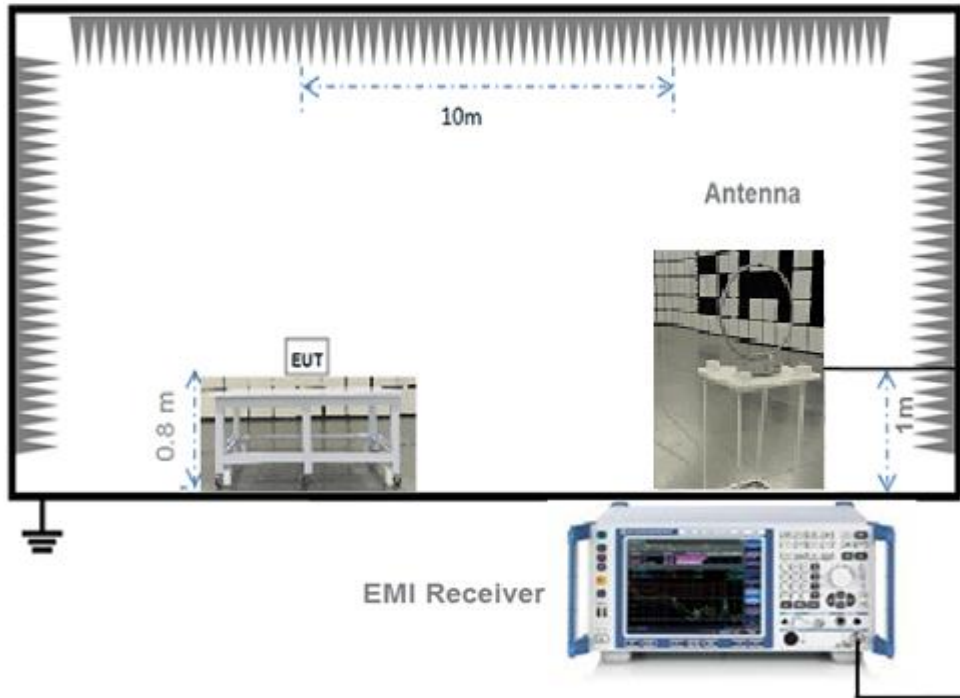
(Diagram 1)

#### 4.3.2 For AC Power Supply Port Test



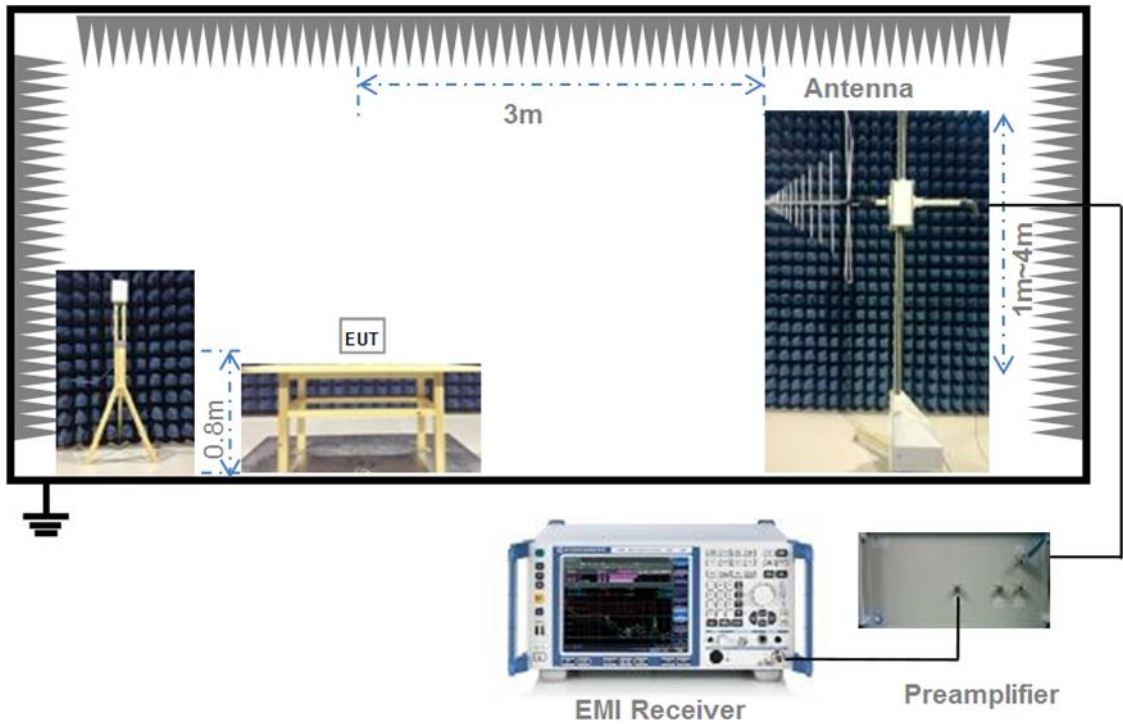
(Diagram 2)

4.3.3 For Radiated Test (Below 30 MHz)



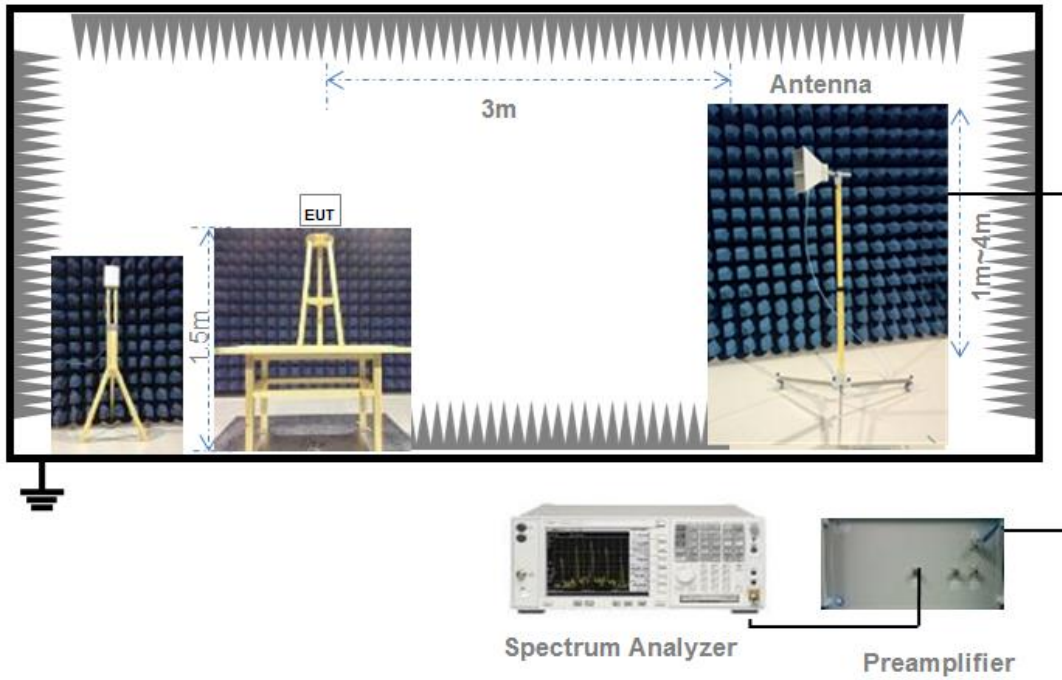
(Diagram 3)

4.3.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.3.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

## 5 TEST ITEMS

### 5.1 Antenna Requirements

#### 5.1.1 Relevant Standards

FCC §15.203; RSS-Gen, 6.8

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.	An embedded-in antenna design is used.

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 20 dB and 99% Bandwidth

### 5.2.1 Limit

FCC §15.215(c); RSS-Gen, 6.7

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 5.2.2 Test Setups

See section 4.3.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

Use the following spectrum analyzer settings:

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

RBW  $\geq$  1% of the 20 dB bandwidth

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

### 5.2.4 Test Result

Please refer to ANNEX A.1.

## 5.3 AC Conducted Emission

### 5.3.1 Limit

FCC §15.207; RSS-Gen, 8.8

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 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5	56	46
5 - 30	60	50

### 5.3.2 Test Setups

See section 4.3.2 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.3.3 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.

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.

### 5.3.4 Test Result

Please refer to ANNEX A.2.

## 5.4 field strength of Fundamental emissions

### 5.4.1 Limit

FCC&15.249(a); RSS-Gen, 8.9

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

### 5.4.2 Test Setups

See section 4.3.3-4.3.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.4.3 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

### 5.4.4 Test Result

Please refer to ANNEX A.3.



## 5.5 Radiated Spurious Emission and Bandedge Measurement

### 5.5.1 Limit

FCC §15.249(a); FCC §15.249(d); FCC §15.209; RSS-210, B.10; RSS-Gen, 8.9; RSS-Gen, 8.10

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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	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

Note:

- 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 20 dB above the maximum permitted average limit.
- For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

### 5.5.2 Test Setups

See section 4.3.3-4.3.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.5.3 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

#### 5.5.4 Test Result

Please refer to ANNEX A.4.

# ANNEX A TEST RESULT

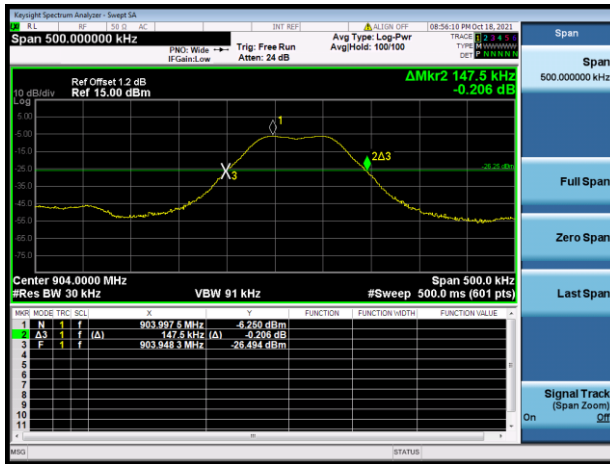
## A.1 20dB bandwidth and 99% bandwidth

### Test Data

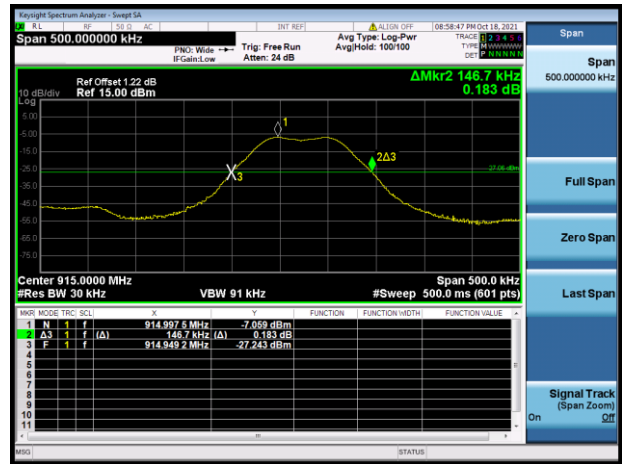
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
904MHz	904	0.147500	0.119850
915MHz	915	0.146700	0.120560
922MHz	922	0.147500	0.121310
926MHz	926	0.145000	0.118330

### Test plots (20 dB Bandwidth)

904MHz



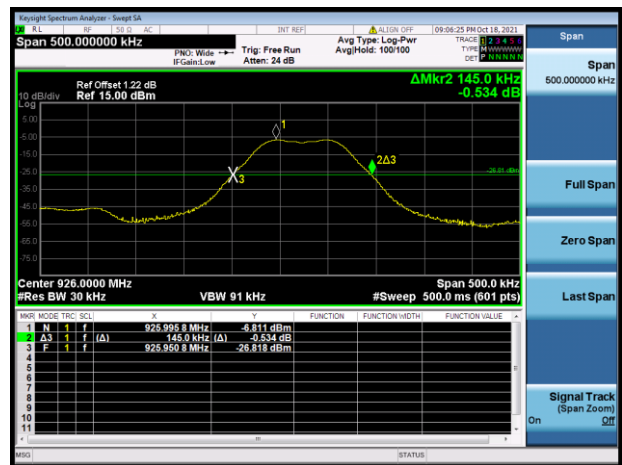
915MHz



922MHz

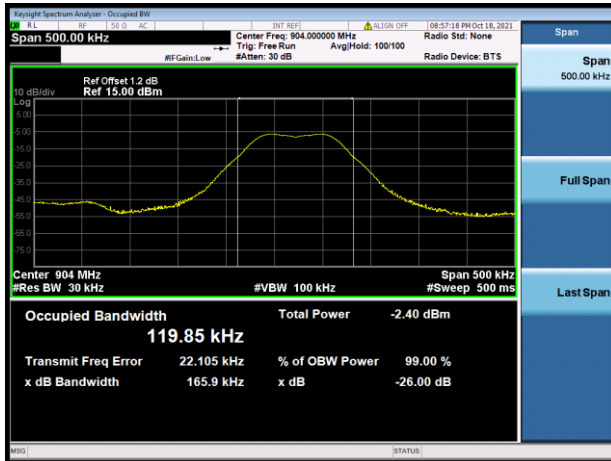


926MHz

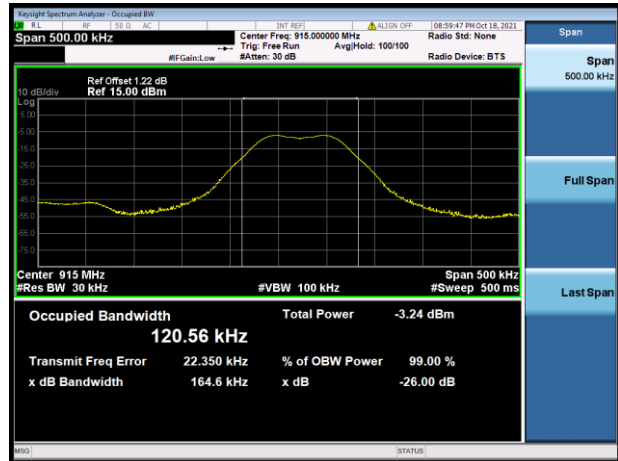


Test plots (99% Bandwidth)

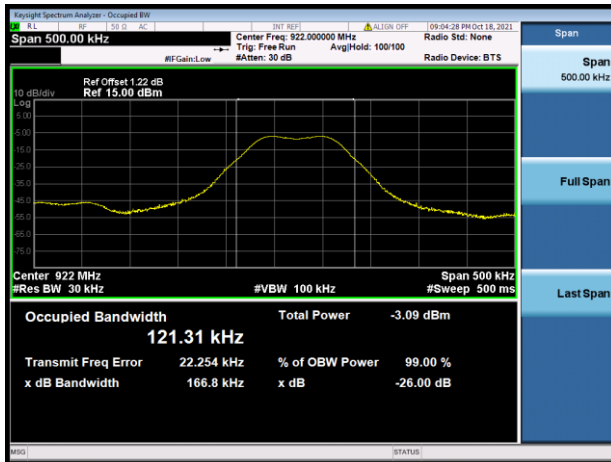
904MHz



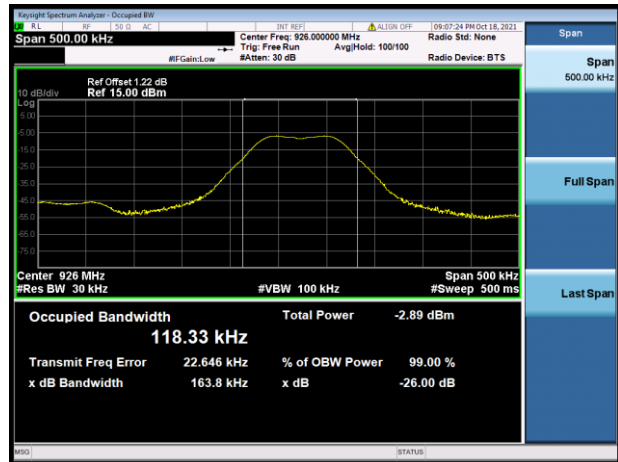
915MHz



922MHz



926MHz



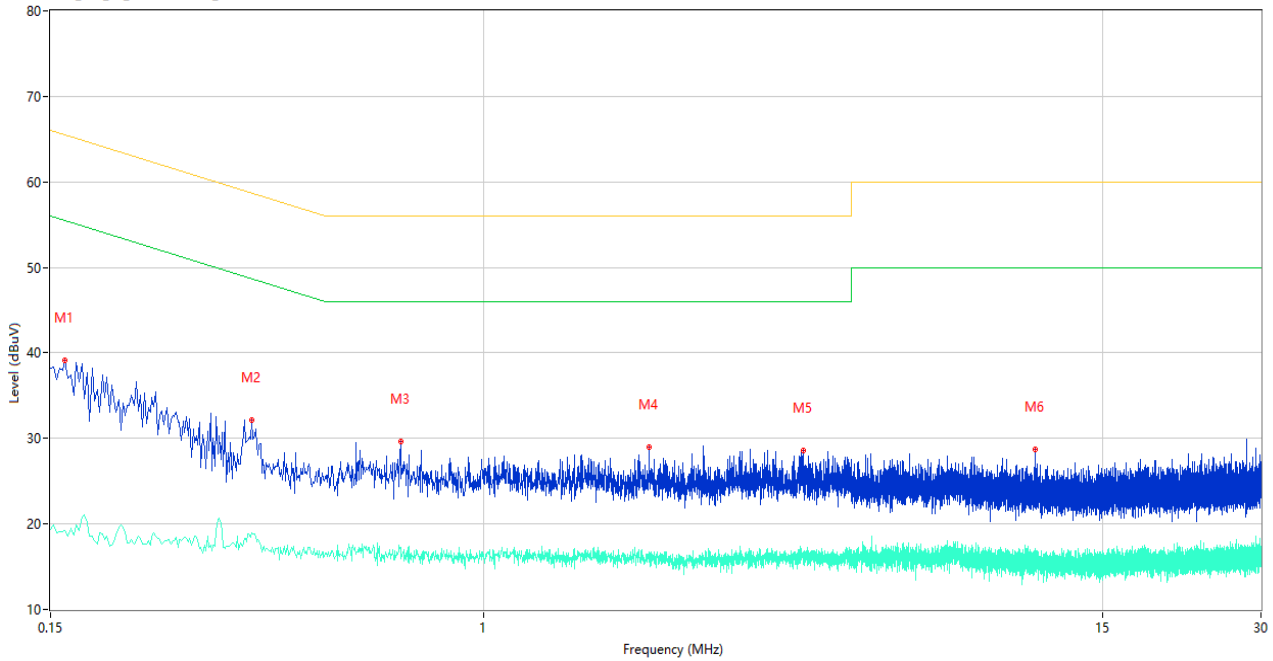
## A.2 AC Conducted Emission

Note<sup>1</sup>: The EUT is working in the Normal link mode.

Note<sup>2</sup>: 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.

### PHASE L

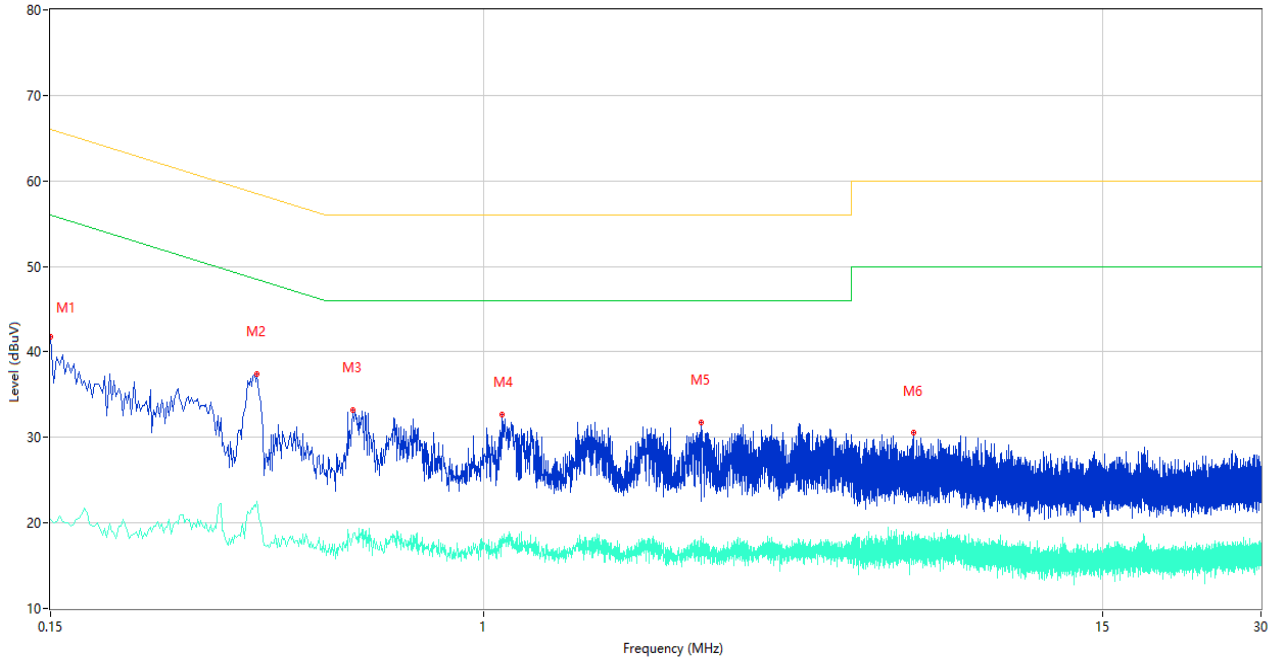
CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.160	39.09	10.17	65.46	-26.37	Peak	L	Pass
1**	0.160	19.21	10.17	55.46	-36.25	AV	L	Pass
2	0.362	32.15	10.08	58.68	-26.53	Peak	L	Pass
2**	0.362	18.98	10.08	48.68	-29.70	AV	L	Pass
3	0.694	29.65	10.08	56.00	-26.35	Peak	L	Pass
3**	0.694	17.30	10.08	46.00	-28.70	AV	L	Pass
4	2.058	28.93	9.87	56.00	-27.07	Peak	L	Pass
4**	2.058	15.76	9.87	46.00	-30.24	AV	L	Pass
5	4.042	28.55	10.08	56.00	-27.45	Peak	L	Pass
5**	4.042	16.56	10.08	46.00	-29.44	AV	L	Pass
6	11.144	28.72	10.08	60.00	-31.28	Peak	L	Pass
6**	11.144	16.80	10.08	50.00	-33.20	AV	L	Pass

## PHASE N

CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	41.72	10.19	66.00	-24.28	Peak	N	Pass
1**	0.150	20.38	10.19	56.00	-35.62	AV	N	Pass
2	0.370	37.38	10.08	58.50	-21.12	Peak	N	Pass
2**	0.370	22.51	10.08	48.50	-25.99	AV	N	Pass
3	0.564	33.18	10.10	56.00	-22.82	Peak	N	Pass
3**	0.564	18.60	10.10	46.00	-27.40	AV	N	Pass
4	1.082	32.70	10.02	56.00	-23.30	Peak	N	Pass
4**	1.082	18.45	10.02	46.00	-27.55	AV	N	Pass
5	2.586	31.79	9.98	56.00	-24.21	Peak	N	Pass
5**	2.586	18.37	9.98	46.00	-27.63	AV	N	Pass
6	6.572	30.56	9.94	60.00	-29.44	Peak	N	Pass
6**	6.572	17.73	9.94	50.00	-32.27	AV	N	Pass

### A.3 Field Strength of Fundamental Emissions

The Field Strength of Fundamental Emissions (Operating Frequency) is:

$$50000 \text{ uV/m} = 20 \cdot \log(50000) \text{ dBuV/m} = 94 \text{ dBuV/m}$$

#### Test Data

Operating Frequency (MHz)	Field Strength (dBuV/m)	Limit @3m (dBuV/m)	Factor (dB)	Antenna
904	87.18	94	-9.48	Vertical
	92.02	94	-9.46	Horizontal
915	85.14	94	-9.28	Vertical
	90.84	94	-9.28	Horizontal
922	81.88	94	-9.36	Vertical
	89.39	94	-9.36	Horizontal
926	82.41	94	-9.21	Vertical
	89.33	94	-9.17	Horizontal

## A.4 Radiated Emission and Bandedge Measurement

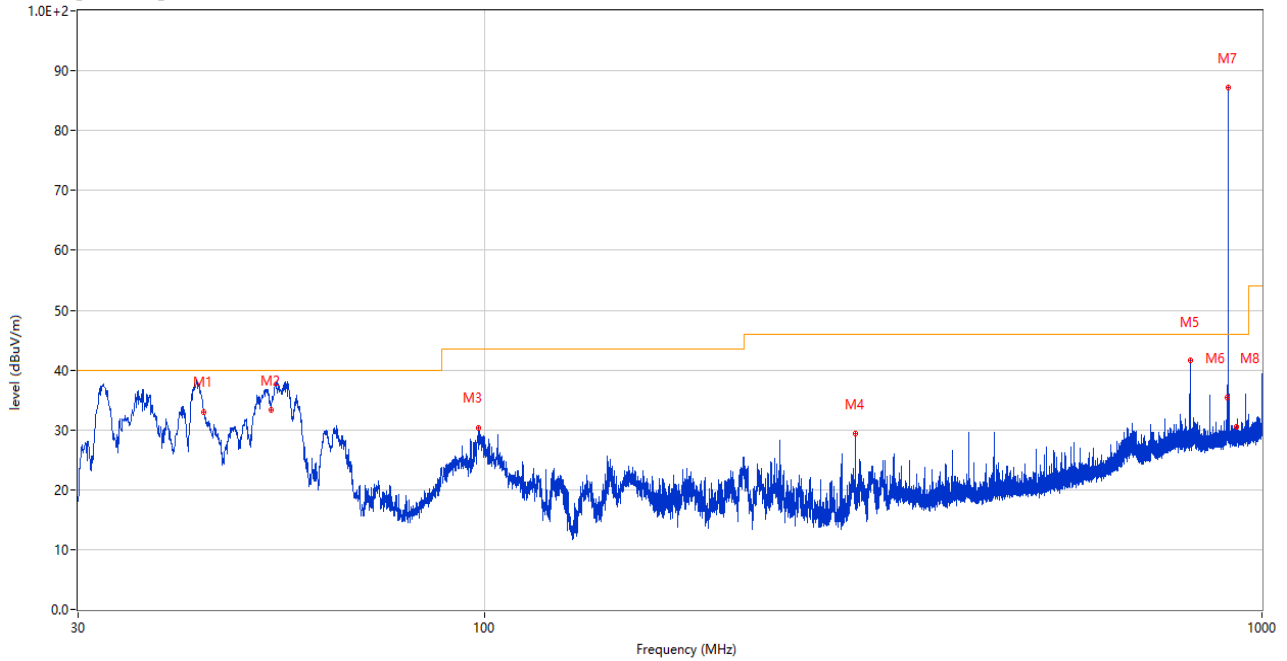
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

### Test Data and Plots (30 MHz ~ 1 GHz)

Note: The bold frequency is the fundamental.

#### 904MHz 30 MHz to 1 GHz, ANT V

RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz

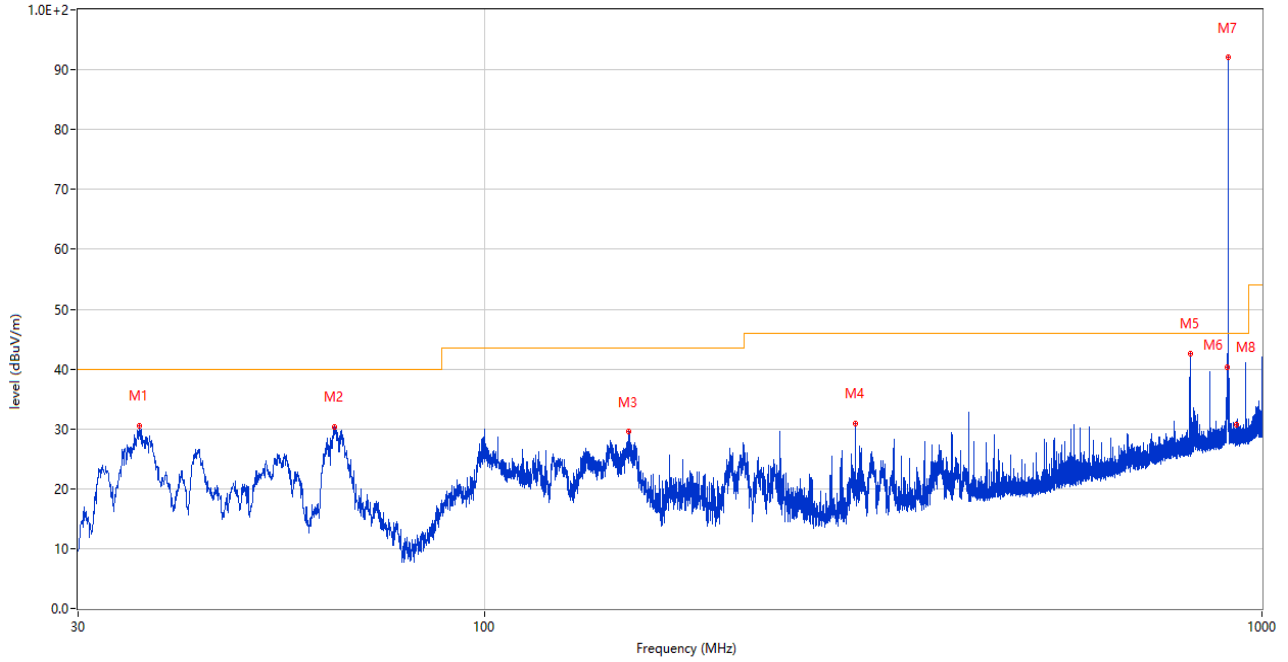


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	42.681	36.92	-25.31	40.0	-3.08	Peak	144.00	105	Vertical	N/A
1*	42.681	32.85	-25.31	40.0	-7.15	QP	144.00	105	Vertical	Pass
2	54.121	36.24	-25.22	40.0	-3.76	Peak	158.00	100	Vertical	N/A
2*	54.121	32.32	-25.22	40.0	-7.68	QP	158.00	100	Vertical	Pass
3	98.143	30.35	-26.82	43.5	-13.15	Peak	335.00	100	Vertical	Pass
4	300.048	29.32	-23.27	46.0	-16.68	Peak	296.00	100	Vertical	Pass
5	808.037	41.61	-11.40	46.0	-4.39	Peak	149.00	100	Vertical	Pass
6	902	35.34	-9.55	46.0	-10.66	Peak	86.00	100	Vertical	Pass
7	904.018	87.18	-9.46	46.0	41.18	Peak	88.00	100	Vertical	N/A
8	928	30.56	-9.18	46.0	-15.44	Peak	0.00	200	Vertical	Pass



904MHz 30 MHz to 1 GHz, ANT H

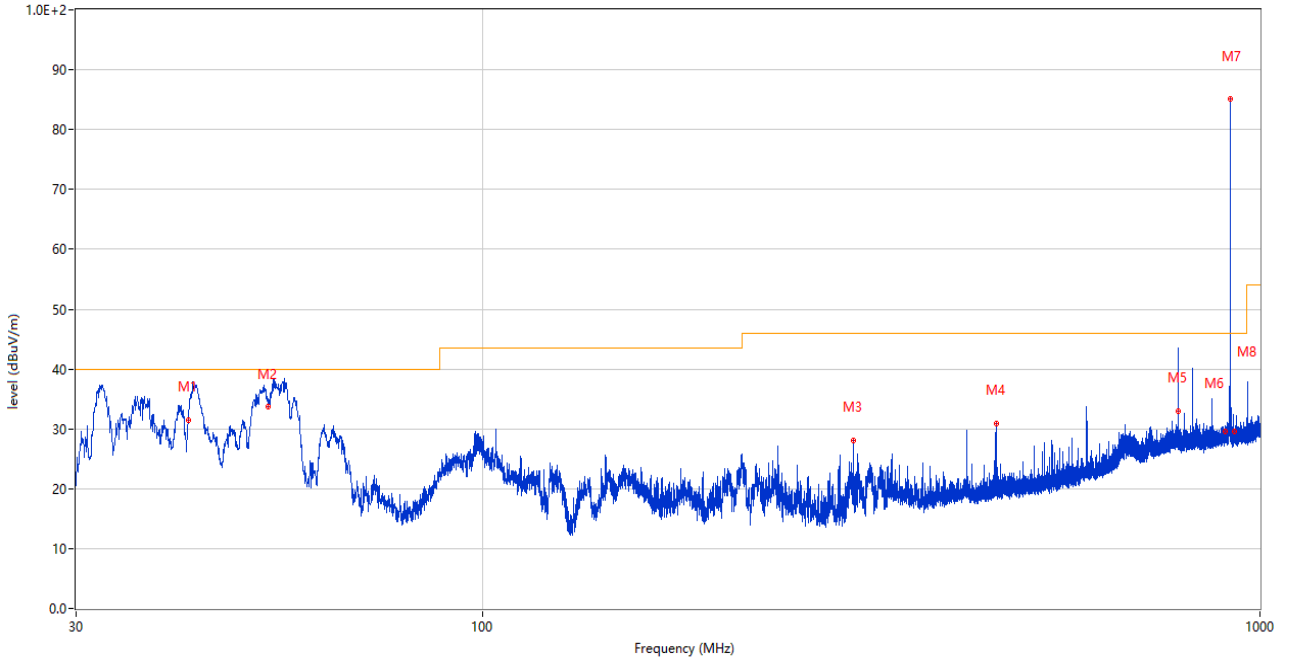
RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	36.014	30.52	-27.63	40.0	-9.48	Peak	210.00	200	Horizontal	Pass
2	64.192	30.32	-26.65	40.0	-9.68	Peak	285.00	200	Horizontal	Pass
3	153.432	29.54	-29.61	43.5	-13.96	Peak	178.00	100	Horizontal	Pass
4	300.048	30.95	-23.27	46.0	-15.05	Peak	162.00	200	Horizontal	Pass
5	808.042	43.03	-11.40	46.0	-2.97	Peak	91.00	193	Horizontal	N/A
5*	808.042	42.23	-11.40	46.0	-3.77	QP	91.00	193	Horizontal	Pass
6	902	40.32	-9.55	46.0	-5.68	Peak	361.00	200	Horizontal	Pass
7	904.018	92.02	-9.46	46.0	46.02	Peak	361.00	200	Horizontal	N/A
8	928	30.62	-9.19	46.0	-15.38	Peak	69.00	200	Horizontal	Pass

915MHz 30 MHz to 1 GHz, ANT V

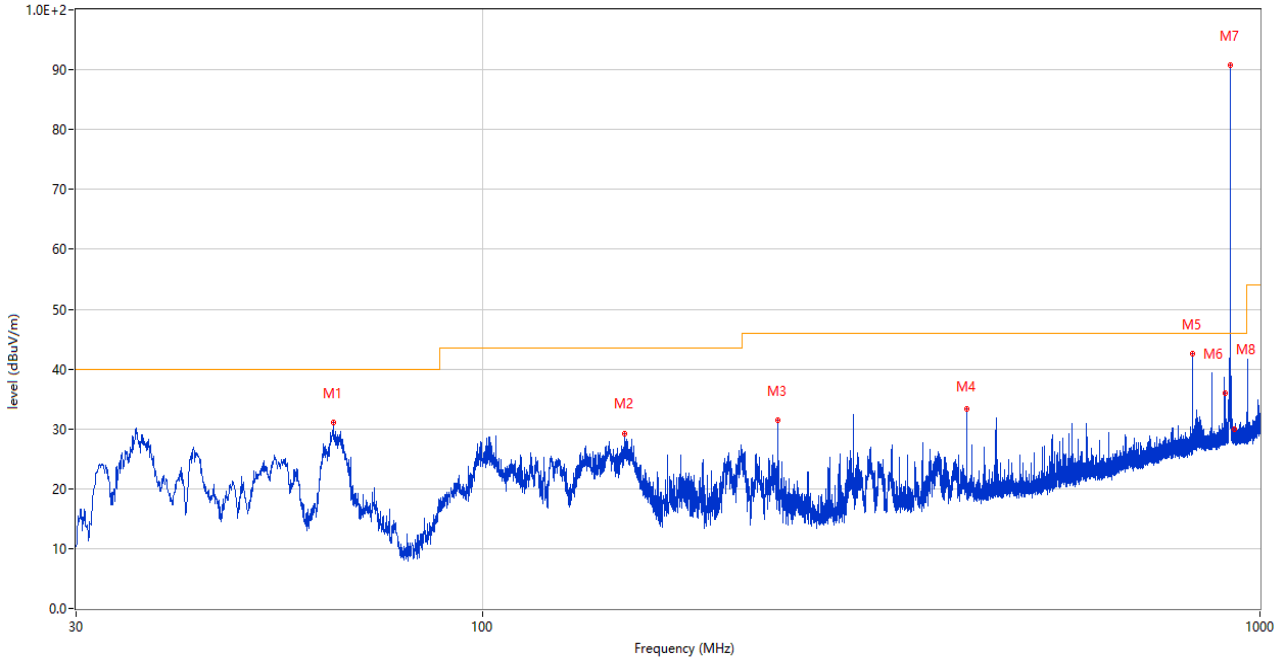
RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	42.570	36.29	-25.34	40.0	-3.71	Peak	193.00	101	Vertical	N/A
1*	42.570	31.93	-25.34	40.0	-8.07	QP	193.00	101	Vertical	Pass
2	53.921	36.96	-25.26	40.0	-3.04	Peak	244.00	101	Vertical	N/A
2*	53.921	32.65	-25.26	40.0	-7.35	QP	244.00	101	Vertical	Pass
3	300.048	28.06	-23.27	46.0	-17.94	Peak	32.00	100	Vertical	Pass
4	457.527	31.02	-19.53	46.0	-14.98	Peak	286.00	100	Vertical	Pass
5	785.204	43.43	-11.91	46.0	-2.57	Peak	83.00	151	Vertical	N/A
5*	785.204	32.42	-11.91	46.0	-13.58	QP	83.00	151	Vertical	Pass
6	902	29.62	-9.55	46.0	-16.38	Peak	300.00	200	Vertical	Pass
7	914.980	85.14	-9.28	46.0	39.14	Peak	88.00	100	Vertical	N/A
8	928	29.47	-9.18	46.0	-16.53	Peak	0.00	100	Vertical	Pass

915MHz 30 MHz to 1 GHz, ANT H

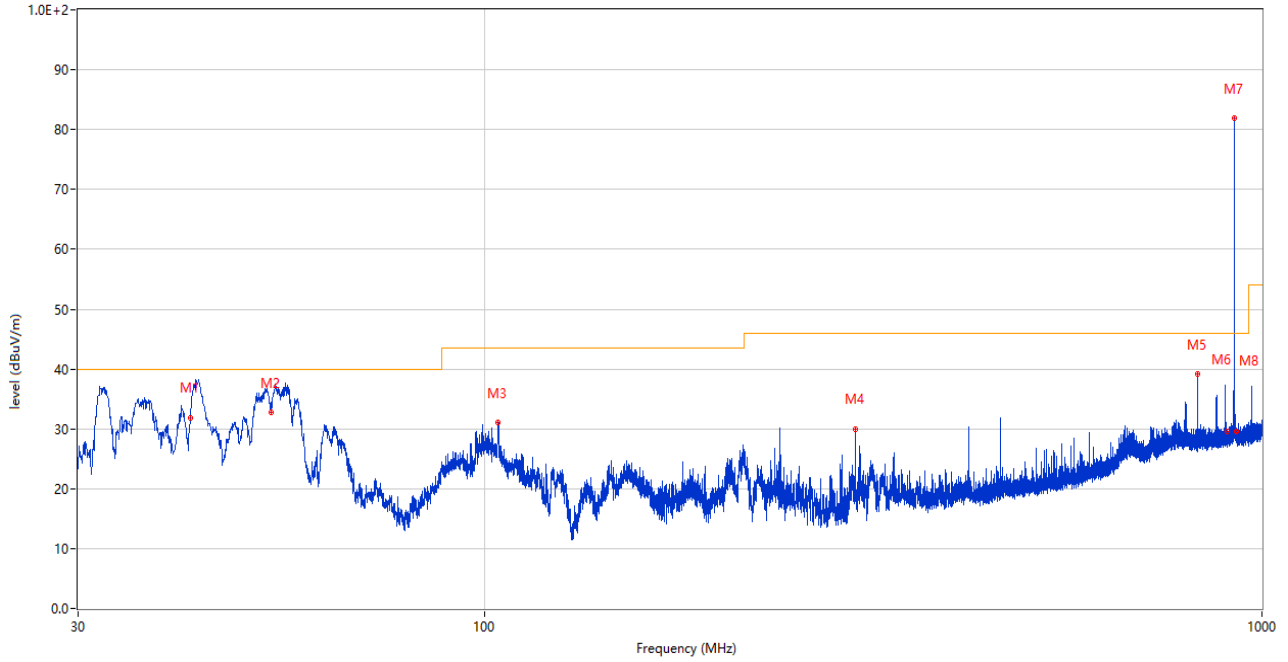
RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	64.338	31.05	-26.70	40.0	-8.95	Peak	300.00	200	Horizontal	Pass
2	152.511	29.21	-29.69	43.5	-14.29	Peak	164.00	100	Horizontal	Pass
3	240.005	31.37	-25.00	46.0	-14.63	Peak	155.00	200	Horizontal	Pass
4	420.037	33.36	-20.15	46.0	-12.64	Peak	13.00	100	Horizontal	Pass
5	818.998	42.47	-11.08	46.0	-3.53	Peak	96.00	200	Horizontal	Pass
6	902	36.06	-9.54	46.0	-9.94	Peak	332.00	100	Horizontal	Pass
7	915.028	90.84	-9.28	46.0	44.84	Peak	360.00	200	Horizontal	N/A
8	928	29.94	-9.18	46.0	-16.06	Peak	327.00	100	Horizontal	Pass

922MHz 30 MHz to 1 GHz, ANT V

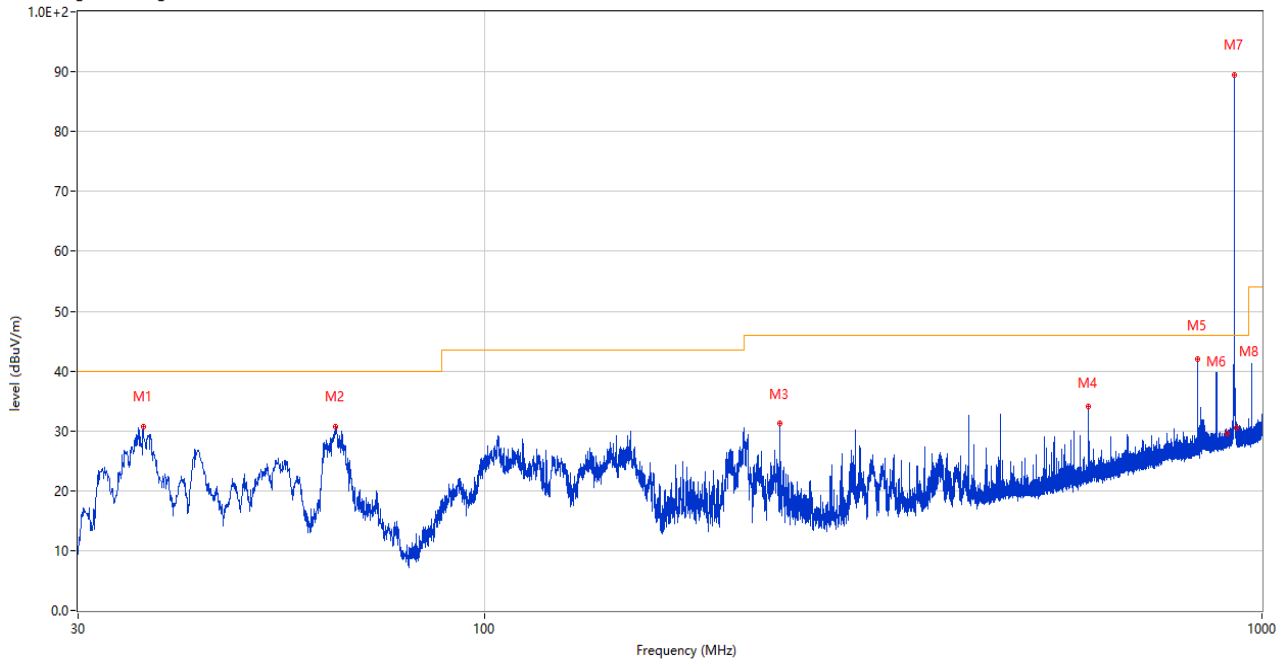
RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	42.515	36.63	-25.31	40.0	-3.37	Peak	214.00	101	Vertical	N/A
1*	42.515	32.05	-25.31	40.0	-7.95	QP	214.00	101	Vertical	Pass
2	54.073	35.87	-25.22	40.0	-4.13	Peak	159.00	100	Vertical	N/A
2*	54.073	32.12	-25.22	40.0	-7.88	QP	159.00	100	Vertical	Pass
3	104.011	31.00	-26.27	43.5	-12.50	Peak	360.00	100	Vertical	Pass
4	300.000	30.01	-23.27	46.0	-15.99	Peak	31.00	100	Vertical	Pass
5	825.982	39.12	-10.97	46.0	-6.88	Peak	160.00	200	Vertical	Pass
6	902	29.59	-9.56	46.0	-16.41	Peak	100.00	100	Vertical	Pass
7	922.012	81.88	-9.36	46.0	35.88	Peak	87.00	100	Vertical	N/A
8	928	29.49	-9.20	46.0	-16.51	Peak	136.00	200	Vertical	Pass

922MHz 30 MHz to 1 GHz, ANT H

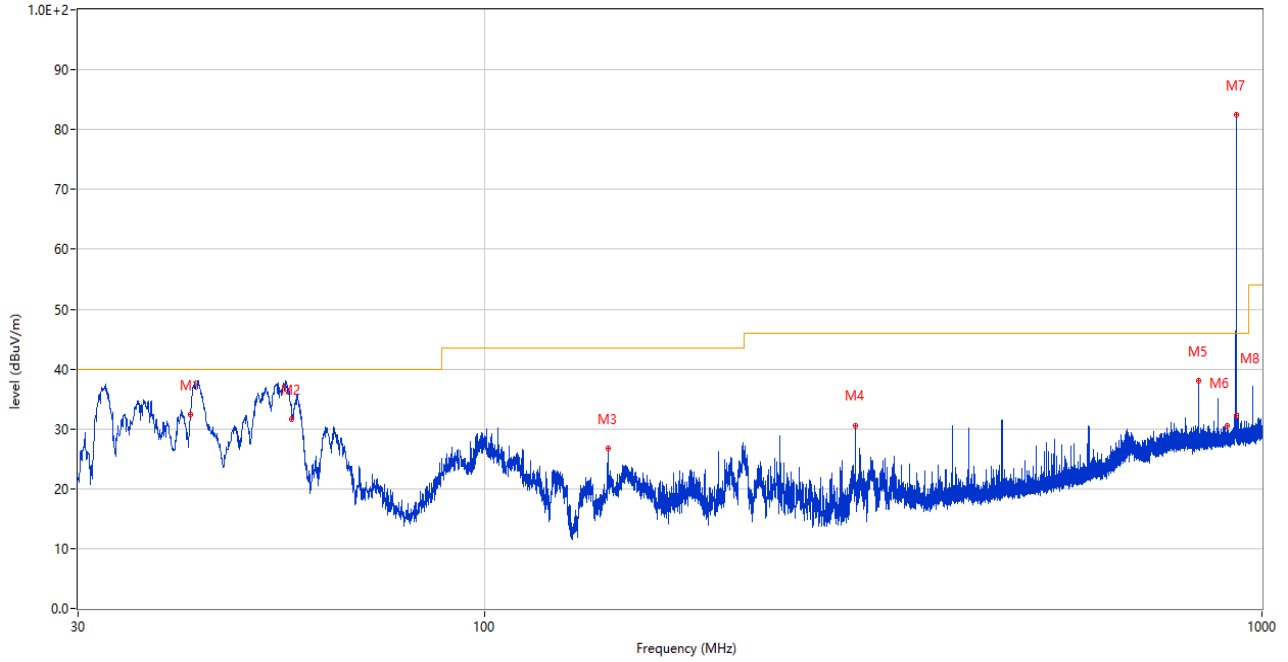
RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	36.402	30.77	-27.41	40.0	-9.23	Peak	220.00	200	Horizontal	Pass
2	64.289	30.76	-26.68	40.0	-9.24	Peak	119.00	200	Horizontal	Pass
3	240.054	31.23	-25.00	46.0	-14.77	Peak	151.00	200	Horizontal	Pass
4	598.129	34.11	-15.69	46.0	-11.89	Peak	271.00	100	Horizontal	Pass
5	826.031	42.07	-10.97	46.0	-3.93	Peak	321.00	100	Horizontal	Pass
6	902	29.59	-9.56	46.0	-16.41	Peak	239.00	100	Horizontal	Pass
7	922.012	89.39	-9.36	46.0	43.39	Peak	360.00	200	Horizontal	N/A
8	928	30.46	-9.19	46.0	-15.54	Peak	360.00	200	Horizontal	Pass

926MHz 30 MHz to 1 GHz, ANT V

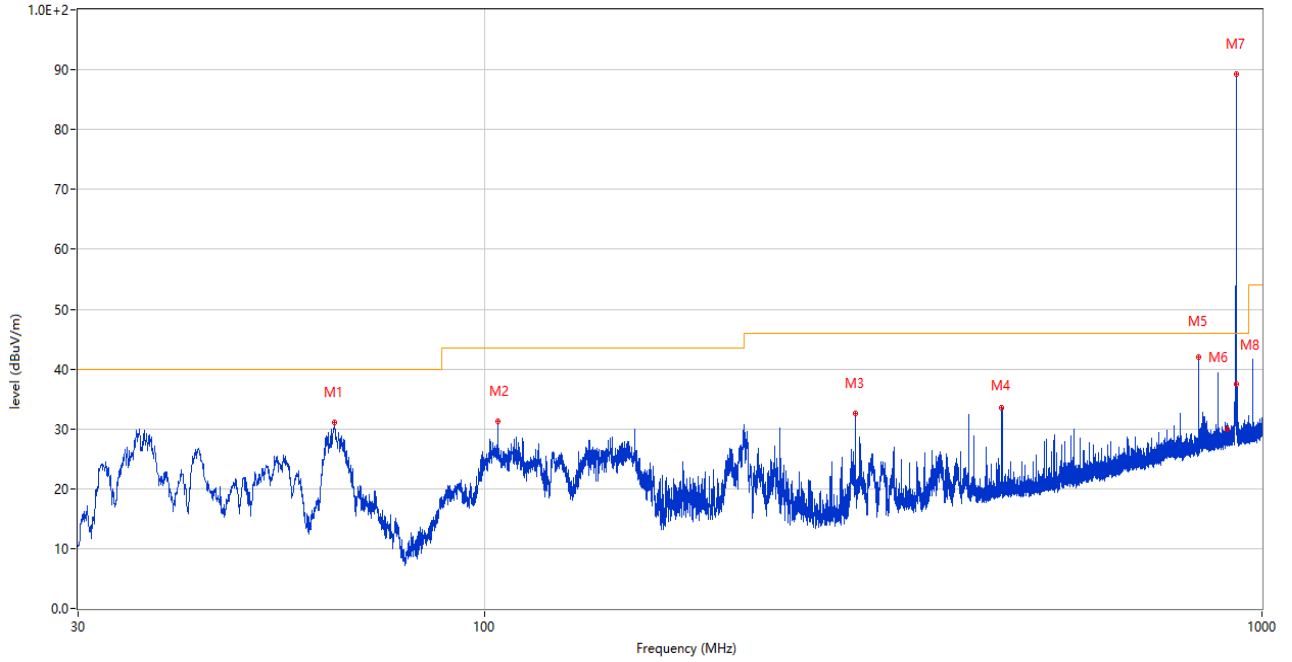
RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	42.509	36.64	-25.33	40.0	-3.36	Peak	161.00	101	Vertical	N/A
1*	42.509	32.15	-25.33	40.0	-7.85	QP	161.00	101	Vertical	Pass
2	55.342	36.32	-25.52	40.0	-3.68	Peak	178.00	102	Vertical	N/A
2*	55.342	31.98	-25.52	40.0	-8.02	QP	178.00	102	Vertical	Pass
3	144.072	26.70	-29.91	43.5	-16.80	Peak	277.00	200	Vertical	Pass
4	300.048	30.59	-23.27	46.0	-15.41	Peak	37.00	100	Vertical	Pass
5	830.056	38.12	-10.89	46.0	-7.88	Peak	112.00	200	Vertical	Pass
6	902	30.56	-9.57	46.0	-15.44	Peak	67.00	100	Vertical	Pass
7	926.038	82.41	-9.21	46.0	36.41	Peak	84.00	100	Vertical	N/A
8	928	32.26	-9.18	46.0	-13.74	Peak	360.00	200	Vertical	Pass

926MHz 30 MHz to 1 GHz, ANT H

RE Test case\_FCC Part 15B\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	64.095	31.12	-26.62	40.0	-8.88	Peak	288.00	100	Horizontal	Pass
2	104.011	31.31	-26.27	43.5	-12.19	Peak	358.00	200	Horizontal	Pass
3	300.000	32.61	-23.27	46.0	-13.39	Peak	155.00	200	Horizontal	Pass
4	463.056	33.51	-19.39	46.0	-12.49	Peak	342.00	200	Horizontal	Pass
5	830.007	41.97	-10.89	46.0	-4.03	Peak	324.00	100	Horizontal	Pass
6	902	29.88	-9.55	46.0	-16.12	Peak	302.00	200	Horizontal	Pass
7	926.038	89.33	-9.21	46.0	43.33	Peak	360.00	200	Horizontal	N/A
8	928	37.52	-9.17	46.0	-8.48	Peak	360.00	200	Horizontal	Pass

**Test Data and Plots (1 GHz ~ 10th Harmonic)**

Note 1: The marked is the harmonic signal.

Note 2: Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Note 3: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Note 4: Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Note 5: Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.

**904MHz 1 GHz to 10 GHz, ANT V**

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1393.600	50.92	-16.48	74.0	-23.08	Peak	221.00	150	Vertical	Pass
1**	1393.600	31.07	-16.48	54.0	-22.93	AV	221.00	150	Vertical	Pass
2	1808.200	48.01	-15.60	74.0	-25.99	Peak	46.00	150	Vertical	Pass
2**	1808.200	46.91	-15.60	54.0	-7.09	AV	46.00	150	Vertical	Pass
3	2127.300	44.65	-12.75	74.0	-29.35	Peak	59.00	150	Vertical	Pass
3**	2127.300	43.87	-12.75	54.0	-10.13	AV	59.00	150	Vertical	Pass
4	3193.500	48.22	-4.88	74.0	-25.78	Peak	66.00	150	Vertical	Pass
4**	3193.500	43.67	-4.88	54.0	-10.33	AV	66.00	150	Vertical	Pass
5	7998.000	56.71	3.53	74.0	-17.29	Peak	247.00	150	Vertical	Pass
5**	7998.000	47.65	3.53	54.0	-6.35	AV	247.00	150	Vertical	Pass
6	11940.362	55.90	2.57	74.0	-18.10	Peak	114.00	150	Vertical	Pass
6**	11940.362	46.52	2.57	54.0	-7.48	AV	114.00	150	Vertical	Pass

**904MHz 1 GHz to 10 GHz, ANT H**

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1597.300	43.47	-16.49	74.0	-30.53	Peak	246.00	150	Horizontal	Pass
1**	1597.300	31.28	-16.49	54.0	-22.72	AV	246.00	150	Horizontal	Pass
2	1808.200	52.43	-15.60	74.0	-21.57	Peak	30.00	150	Horizontal	Pass
2**	1808.200	51.00	-15.60	54.0	-3.00	AV	30.00	150	Horizontal	Pass
3	2124.800	44.36	-12.80	74.0	-29.64	Peak	217.00	150	Horizontal	Pass
3**	2124.800	41.90	-12.80	54.0	-12.10	AV	217.00	150	Horizontal	Pass
4	2712.100	48.56	-9.73	74.0	-25.44	Peak	5.00	150	Horizontal	Pass
4**	2712.100	45.26	-9.73	54.0	-8.74	AV	5.00	150	Horizontal	Pass
5	7782.000	57.69	3.81	74.0	-16.31	Peak	74.00	150	Horizontal	Pass
5**	7782.000	47.85	3.81	54.0	-6.15	AV	74.00	150	Horizontal	Pass
6	11309.799	55.33	2.12	74.0	-18.67	Peak	346.00	150	Horizontal	Pass
6**	11309.799	45.59	2.12	54.0	-8.41	AV	346.00	150	Horizontal	Pass



## 915MHz 1 GHz to 10 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1397.400	45.56	-16.39	74.0	-28.44	Peak	27.00	150	Vertical	Pass
1**	1397.400	31.60	-16.39	54.0	-22.40	AV	27.00	150	Vertical	Pass
2	1830.100	46.90	-15.56	74.0	-27.10	Peak	274.00	150	Vertical	Pass
2**	1830.100	45.90	-15.56	54.0	-8.10	AV	274.00	150	Vertical	Pass
3	2124.400	41.59	-12.81	74.0	-32.41	Peak	256.00	150	Vertical	Pass
3**	2124.400	41.05	-12.81	54.0	-12.95	AV	256.00	150	Vertical	Pass
4	3190.500	46.12	-4.81	74.0	-27.88	Peak	340.00	150	Vertical	Pass
4**	3190.500	44.30	-4.81	54.0	-9.70	AV	340.00	150	Vertical	Pass
5	7990.500	56.77	3.10	74.0	-17.23	Peak	37.00	150	Vertical	Pass
5**	7990.500	47.50	3.10	54.0	-6.50	AV	37.00	150	Vertical	Pass
6	11936.326	55.87	2.55	74.0	-18.13	Peak	182.00	150	Vertical	Pass
6**	11936.326	45.91	2.55	54.0	-8.09	AV	182.00	150	Vertical	Pass

## 915MHz 1 GHz to 10 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1010.900	43.10	-17.20	74.0	-30.90	Peak	360.00	150	Horizontal	Pass
1**	1010.900	39.09	-17.20	54.0	-14.91	AV	360.00	150	Horizontal	Pass
2	1830.000	50.09	-15.56	74.0	-23.91	Peak	245.00	150	Horizontal	Pass
2**	1830.000	48.68	-15.56	54.0	-5.32	AV	245.00	150	Horizontal	Pass
3	2132.000	44.39	-12.58	74.0	-29.61	Peak	360.00	150	Horizontal	Pass
3**	2132.000	43.42	-12.58	54.0	-10.58	AV	360.00	150	Horizontal	Pass
4	3192.500	50.26	-4.88	74.0	-23.74	Peak	245.00	150	Horizontal	Pass
4**	3192.500	39.32	-4.88	54.0	-14.68	AV	245.00	150	Horizontal	Pass
5	7925.000	58.99	3.50	74.0	-15.01	Peak	182.00	150	Horizontal	Pass
5**	7925.000	47.61	3.50	54.0	-6.39	AV	182.00	150	Horizontal	Pass
6	12000.213	55.74	2.63	74.0	-18.26	Peak	360.00	150	Horizontal	Pass
6**	12000.213	46.75	2.63	54.0	-7.25	AV	360.00	150	Horizontal	Pass

## 922MHz 1 GHz to 10 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1399.000	44.76	-16.34	74.0	-29.24	Peak	360.00	150	Vertical	Pass
1**	1399.000	30.75	-16.34	54.0	-23.25	AV	360.00	150	Vertical	Pass
2	1844.400	46.33	-15.06	74.0	-27.67	Peak	296.00	150	Vertical	Pass
2**	1844.400	44.78	-15.06	54.0	-9.22	AV	296.00	150	Vertical	Pass
3	2124.600	47.36	-12.80	74.0	-26.64	Peak	211.00	150	Vertical	Pass
3**	2124.600	45.20	-12.80	54.0	-8.80	AV	211.00	150	Vertical	Pass
4	3207.000	44.67	-5.99	74.0	-29.33	Peak	121.00	150	Vertical	Pass
4**	3207.000	37.99	-5.99	54.0	-16.01	AV	121.00	150	Vertical	Pass
5	7921.750	56.92	3.45	74.0	-17.08	Peak	301.00	150	Vertical	Pass
5**	7921.750	47.15	3.45	54.0	-6.85	AV	301.00	150	Vertical	Pass
6	11993.562	55.77	2.63	74.0	-18.23	Peak	168.00	150	Vertical	Pass
6**	11993.562	45.86	2.63	54.0	-8.14	AV	168.00	150	Vertical	Pass

## 922MHz 1 GHz to 10 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1199.300	42.04	-17.00	74.0	-31.96	Peak	221.00	150	Horizontal	Pass
1**	1199.300	30.97	-17.00	54.0	-23.03	AV	221.00	150	Horizontal	Pass
2	1844.300	49.48	-15.08	74.0	-24.52	Peak	128.00	150	Horizontal	Pass
2**	1844.300	48.48	-15.08	54.0	-5.52	AV	128.00	150	Horizontal	Pass
3	2124.700	41.08	-12.80	74.0	-32.92	Peak	153.00	150	Horizontal	Pass
3**	2124.700	43.85	-12.80	54.0	-10.15	AV	153.00	150	Horizontal	Pass
4	5087.750	54.55	0.67	74.0	-19.45	Peak	98.00	150	Horizontal	Pass
4**	5087.750	44.62	0.67	54.0	-9.38	AV	98.00	150	Horizontal	Pass
5	7926.750	57.24	3.54	74.0	-16.76	Peak	58.00	150	Horizontal	Pass
5**	7926.750	47.79	3.54	54.0	-6.21	AV	58.00	150	Horizontal	Pass
6	11305.525	55.29	2.24	74.0	-18.71	Peak	259.00	150	Horizontal	Pass
6**	11305.525	46.98	2.24	54.0	-7.02	AV	259.00	150	Horizontal	Pass

## 926MHz 1 GHz to 10 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1397.100	47.83	-16.40	74.0	-26.17	Peak	206.00	150	Vertical	Pass
1**	1397.100	30.39	-16.40	54.0	-23.61	AV	206.00	150	Vertical	Pass
2	1852.200	46.51	-15.07	74.0	-27.49	Peak	305.00	150	Vertical	Pass
2**	1852.200	44.60	-15.07	54.0	-9.40	AV	305.00	150	Vertical	Pass
3	2130.300	40.94	-12.61	74.0	-33.06	Peak	250.00	150	Vertical	Pass
3**	2130.300	43.56	-12.61	54.0	-10.44	AV	250.00	150	Vertical	Pass
4	3198.250	51.85	-5.31	74.0	-22.15	Peak	325.00	150	Vertical	Pass
4**	3198.250	45.01	-5.31	54.0	-8.99	AV	325.00	150	Vertical	Pass
5	7920.500	56.59	3.46	74.0	-17.41	Peak	285.00	150	Vertical	Pass
5**	7920.500	47.80	3.46	54.0	-6.20	AV	285.00	150	Vertical	Pass
6	11254.225	55.43	1.83	74.0	-18.57	Peak	52.00	150	Vertical	Pass
6**	11254.225	45.80	1.83	54.0	-8.20	AV	52.00	150	Vertical	Pass

## 926MHz 1 GHz to 10 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1394.100	44.07	-16.48	74.0	-29.93	Peak	253.00	150	Horizontal	Pass
1**	1394.100	31.36	-16.48	54.0	-22.64	AV	253.00	150	Horizontal	Pass
2	1852.100	49.46	-15.07	74.0	-24.54	Peak	125.00	150	Horizontal	Pass
2**	1852.100	48.42	-15.07	54.0	-5.58	AV	125.00	150	Horizontal	Pass
3	2124.600	46.57	-12.80	74.0	-27.43	Peak	101.00	150	Horizontal	Pass
3**	2124.600	35.59	-12.80	54.0	-18.41	AV	101.00	150	Horizontal	Pass
4	3187.500	46.89	-4.72	74.0	-27.11	Peak	327.00	150	Horizontal	Pass
4**	3187.500	43.46	-4.72	54.0	-10.54	AV	327.00	150	Horizontal	Pass
5	7989.500	56.62	3.06	74.0	-17.38	Peak	360.00	150	Horizontal	Pass
5**	7989.500	47.01	3.06	54.0	-6.99	AV	360.00	150	Horizontal	Pass
6	11954.612	55.96	2.64	74.0	-18.04	Peak	298.00	150	Horizontal	Pass
6**	11954.612	46.52	2.64	54.0	-7.48	AV	298.00	150	Horizontal	Pass

**Test Data and Plots (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.

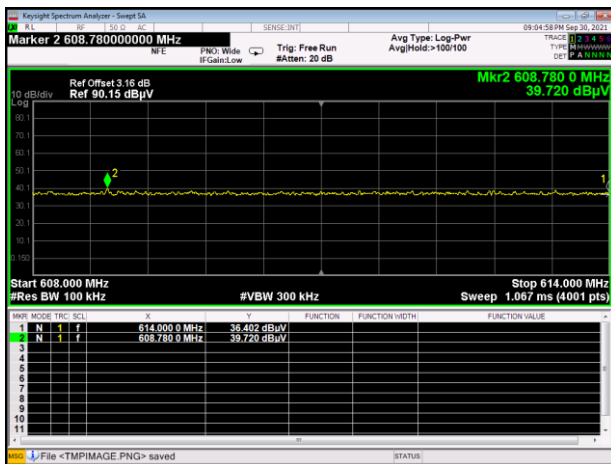
Note 4: The Level (dBuV/m) has been corrected by factor.

**Test Data**

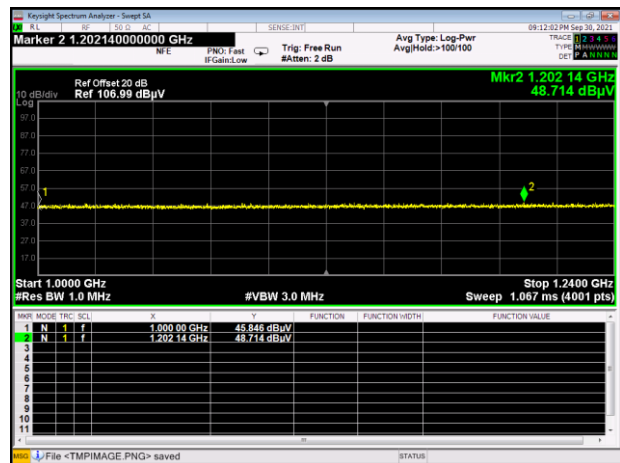
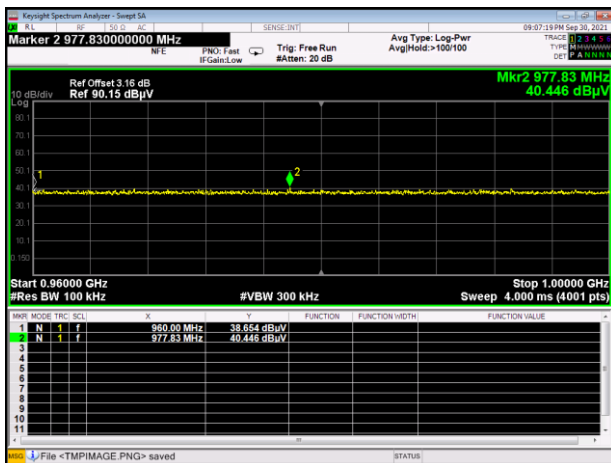
Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
RFID	Low	614	39.72	3.15	74	34.28	PEAK	Pass
	HIGH	960	48.71	20.00	74	25.29	PEAK	Pass

**Test plots**

**LOW CHANNEL, PEAK**



**HIGH CHANNEL, PEAK**



## **ANNEX B TEST SETUP PHOTOS**

Please refer the document "BL-SZ2190868-AR.PDF".

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document "BL- SZ2190868-AW.PDF".

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document "BL- SZ2190868-AI.PDF".

--END OF REPORT--