



# RADIO TEST REPORT

**FCC ID** : MSQ-RTBE7000  
**Equipment** : BE7200 Dual Band Wi-Fi Router  
**Brand Name** : ASUS  
**Model Name** : RT-BE88U, RT-BE7200  
**Applicant** : ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Aug. 01, 2024, and testing was started from Aug. 12, 2024 and completed on Aug. 20, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**

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**Appendix A. Test Results of Emissions in Restricted Frequency Bands**

**Appendix B. Test Photos**

**Photographs of EUT v01**





### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Sam Chen**

**Report Producer: Sophia Shiung**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20), be (EHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40), be (EHT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11n HT20-BF	20	4TX
2.4-2.4835GHz	VHT20	20	4TX
2.4-2.4835GHz	VHT20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11be EHT20	20	4TX
2.4-2.4835GHz	802.11be EHT20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-BF	40	4TX
2.4-2.4835GHz	VHT40	40	4TX
2.4-2.4835GHz	VHT40-BF	40	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	4TX
2.4-2.4835GHz	802.11be EHT40	40	4TX
2.4-2.4835GHz	802.11be EHT40-BF	40	4TX

**Note:**

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ◆ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ◆ EHT20, EHT40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- ◆ BWch is the nominal channel bandwidth.



**1.1.2 Antenna Information**

Set	Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
		2.4GHz	5GHz					
1	1	4	1	M.gear	C660-510411-A	Dipole Antenna	Reversed-SMA	Note 1
	2	3	2				Reversed-SMA	
	3	2	3				Reversed-SMA	
	4	1	4				Reversed-SMA	
2	1	4	1	PSA	RFDPA171300SBLB820	Dipole Antenna	Reversed-SMA	
	2	3	2				Reversed-SMA	
	3	2	3				Reversed-SMA	
	4	1	4				Reversed-SMA	

Note 1:

Set	Ant.	Port		Gain (dBi)			Cable loss(dB)		Net Gain (dBi)				
		2.4GHz	5GHz	2.4GHz	5GHz UNII 1/ UNII 2A	5GHz UNII 2C	5GHz UNII 3	2.4GHz	5GHz	2.4GHz	5GHz UNII 1/ UNII 2A	5GHz UNII 2C	5GHz UNII 3
1	1	4	1	1.94	2.33	2.35	1.94	0.51	0.86	1.43	1.47	1.49	1.08
	2	3	2					0.41	0.73	1.53	1.6	1.62	1.21
	3	2	3					0.61	1.12	1.33	1.21	1.23	0.82
	4	1	4					0.69	1.2	1.25	1.13	1.15	0.74
2	1	4	1	1.85	2.24	2.32	1.86	0.51	0.86	1.34	1.38	1.46	1
	2	3	2					0.41	0.73	1.44	1.51	1.59	1.13
	3	2	3					0.61	1.12	1.24	1.12	1.2	0.74
	4	1	4					0.69	1.2	1.16	1.04	1.12	0.66

Note 2: The above information was declared by manufacturer.

Note 3: There's only set 1 selected to test and recorded in the report due to the same antenna type and highest gain.

Note 4: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$N_{SS1}(g_{1,1}) = 10^{G_1/20} ; N_{SS1}(g_{1,2}) = 10^{G_2/20} ; N_{SS1}(g_{1,3}) = 10^{G_3/20} ; N_{SS1}(g_{1,4}) = 10^{G_4/20}$$

$$g_{j,k} = (N_{SS1}(g_{1,1}) + N_{SS1}(g_{1,2}) + N_{SS1}(g_{1,3}) + N_{SS1}(g_{1,4}))^2$$

$$DG = 10 \log \left[ \frac{(N_{SS1}(g_{1,1}) + N_{SS1}(g_{1,2}) + N_{SS1}(g_{1,3}) + N_{SS1}(g_{1,4}))^2}{N_{ANT}} \right] \Rightarrow 10$$

$$\log \left[ \frac{(10^{G_1/20} + 10^{G_2/20} + 10^{G_3/20} + 10^{G_4/20})^2}{N_{ANT}} \right]$$

Where ;

2.4G G1= 1.43 dBi ; G2= 1.53 dBi ; G3= 1.33 dBi ; G4= 1.25 dBi

5G UNII-1 G1 = 1.47 dBi; G2 = 1.60 dBi; G3 = 1.21 dBi; G4 = 1.13 dBi

5G UNII-2A G1 = 1.47 dBi; G2 = 1.60 dBi; G3 = 1.21 dBi; G4 = 1.13 dBi

5G UNII-2C G1 = 1.49 dBi; G2 = 1.62 dBi; G3 = 1.23 dBi; G4 = 1.15 dBi

5G UNII-3 G1 = 1.08 dBi; G2 = 1.21 dBi; G3 = 0.82 dBi; G4 = 0.74 dBi

Nss1

2.4G DG = 7.41 dBi

5G UNII-1 DG = 7.38 dBi

5G UNII-2A DG = 7.38 dBi

5G UNII-2C DG = 7.40 dB

5G UNII-3 DG = 6.99 dBi

Nss2

2.4G DG = 4.40 dBi

5G UNII-1 DG = 4.37 dBi

5G UNII-2A DG = 4.37 dBi

5G UNII-2C DG = 4.39 dB

5G UNII-3 DG = 3.98 dBi

Note 5: For 2.4GHz function:

**For IEEE 802.11 b/g/n/VHT/ax/be (4TX/4RX):**

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 could transmit/receive simultaneously.



For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be (4TX/4RX):

Port 1~4 can be used as transmitting/receiving antenna.

Port 1~4 could transmit/receive simultaneously.

1.1.3 EUT Operational Condition

Table with 2 columns: EUT Power Type, Beamforming Function, Function, Support RU, Test Software Version. Includes checkboxes for beamforming and RU types.

Note: The above information was declared by manufacturer.

1.1.4 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Table with 3 columns: Brand Name, Model Name, Description. Lists ASUS models RT-BE88U and RT-BE7200.

Note 1: From the above models, model: RT-BE88U was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.5 Table for Component Source

Table with 3 columns: Source, 5G RF chip (Location: UF1) Brand Name, Model Name. Lists BROADCOM chipsets BCM6726 and BCM67263.

Note: The chipset model "BCM6726" and "BCM67263" use the same silicon die. The RF SoC design is the same for both chipsets. There is no difference in radio parameters between them.

Note: The above information was declared by manufacturer.

1.1.6 Table for EUT Information

Table with 2 columns: EUT, 5G RF Chip (Location: UF1). Lists EUT 1 (Main source) and EUT 2 (Second source).

Note 1: From the above EUTs, EUT 2 was selected to test Emissions in Restricted Frequency Bands.

Note 2: The above information was declared by manufacturer.





**1.1.7 Table for EUT Supports Functions**

<b>Function</b>	<b>Support Type</b>
AP Router	Master
Bridge	Slave without radar detection
Repeater	Master
Mesh	Master

Note 1: After evaluating, AP Router mode was selected to test and recorded in the report.

Note 2: The USB port on this device supports both storage and WWAN functionality.

Note 3: The above information was declared by manufacturer.

**1.1.8 Table for Permissive Change**

This product is an extension of original one reported under Sporton project number: FR382332AA.

Below is the table for the change of the product with respect to the original one.

<b>Modifications</b>	<b>Performance Checking</b>
Add EUT 2 (Please refer to section 1.1.5 & 1.1.6 for detailed information.)	Emissions in Restricted Frequency Bands < 1GHz



### 1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

### 1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
Radiated < 1GHz	03CH06-CB	Gordon Hung	22~23 / 55~58	Aug. 12, 2024~ Aug. 20, 2024

### 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
<b>Operating Mode &lt; 1GHz</b>	CTX
	<ol style="list-style-type: none"> <li>After evaluating, EUT in Z axis was the worst case, so the measurement will follow this same test configuration.</li> <li>The EUT performed the test with RJ-45 cable 1~3; the worst case was found at RJ-45 cable 2. Thus, the measurement will follow this same test configuration.</li> <li>The EUT performed the test with Adapter 1 and Adapter 2; the worst case was found at Adapter 1. Thus, the measurement will follow this same test configuration.</li> <li>The EUT performed the test at WLAN 2.4GHz and WLAN 5GHz; the worst case was found at WLAN 2.4GHz. Thus, the measurement will follow this same test configuration.</li> </ol>
1	EUT 2 in Z axis + Adapter 1 with power cord + RJ-45 cable 2_WLAN 2.4GHz

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 2.4GHz + WLAN 5GHz
2	WLAN 2.4GHz + WLAN 5GHz + WWAN
Refer to Sporton Test Report No.: FA382332-02 for Co-location RF Exposure Evaluation.	

### 2.2 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



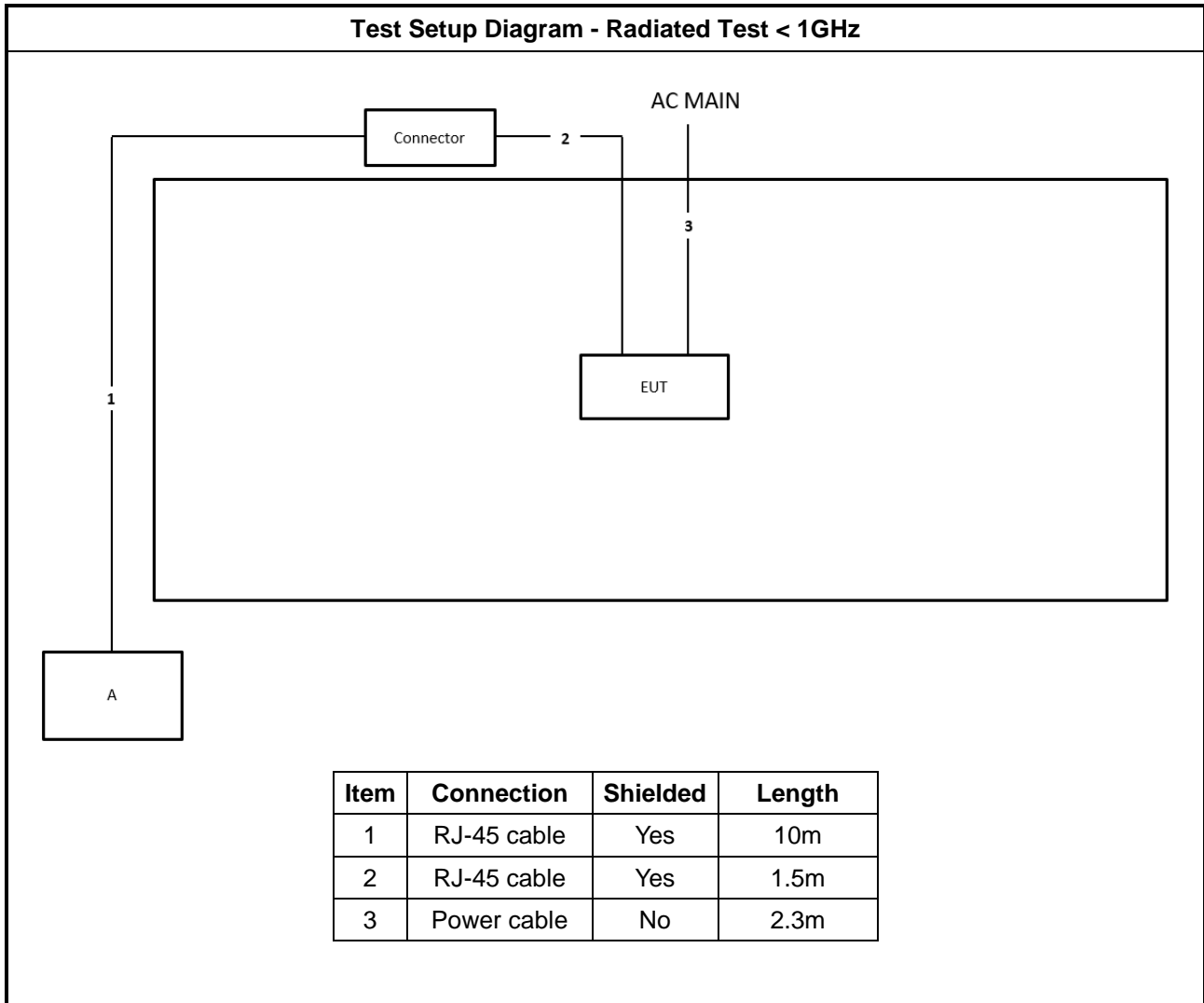
### 2.3 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	DC Power Line
Adapter 1	ACBEL	ADH011	Input: 100-240V~1.4A, 50-60Hz Output: 19.5V, 2.31A, 45.0W MAX.	Non-shielded, 1.5m
Adapter 2	LEADER	MU60B3120500-A1	Input: 100V-240V~50/60Hz, 1.5A Output: 12.0V, 5.0A	-
Others				
Power cord*1: Non-shielded, 0.8m for Adapter 1 use				
RJ-45 cable 1*1: Shielded, 1.5m				
RJ-45 cable 2*1: Shielded, 1.5m				
RJ-45 cable 3*1: Shielded, 1.5m				

### 2.4 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

## 2.5 Test Setup Diagram





### 3 Transmitter Test Result

#### 3.1 Emissions in Restricted Frequency Bands

##### 3.1.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

##### 3.1.2 Measuring Instruments

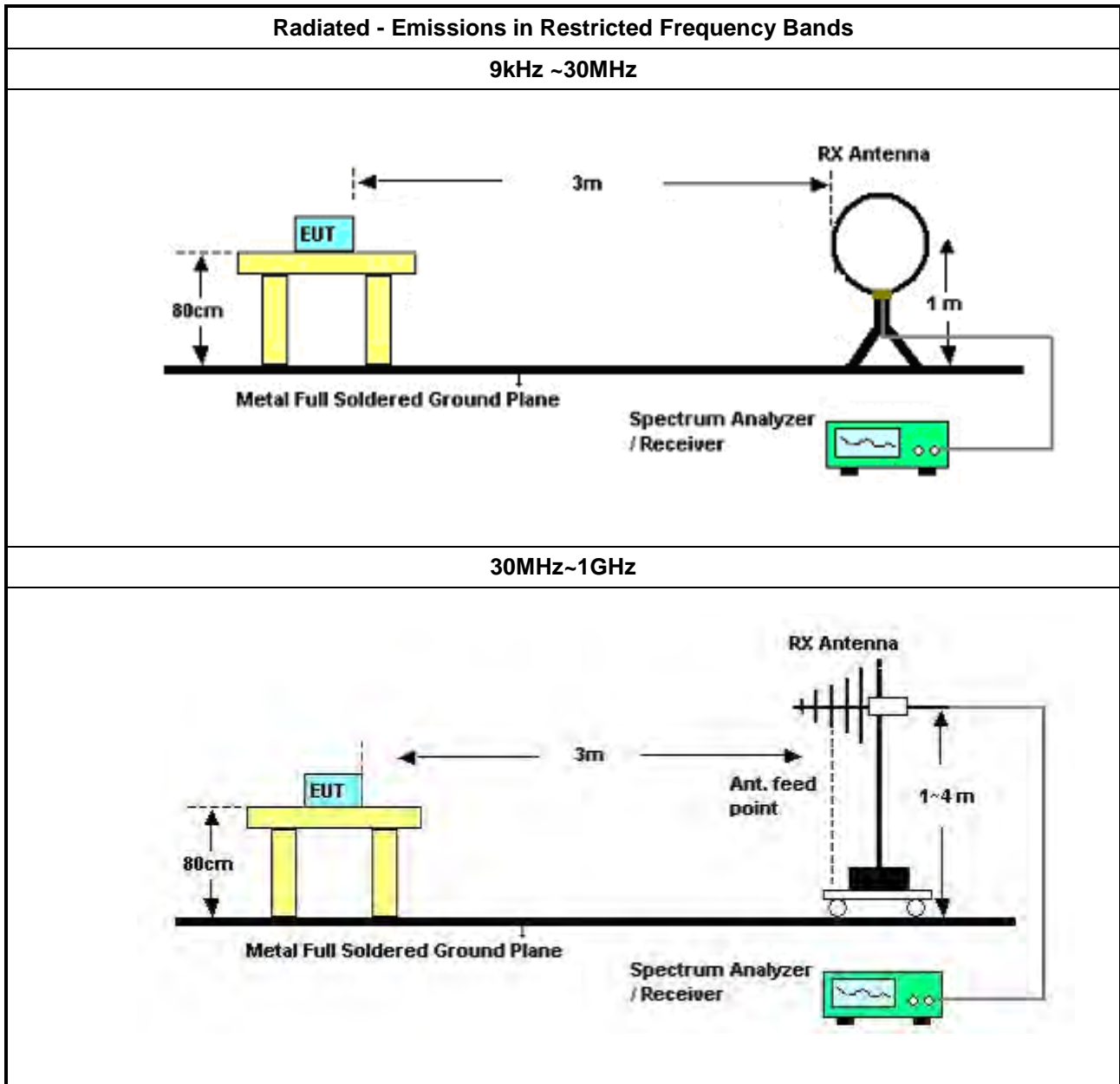
Refer a test equipment and calibration data table in this test report.



**3.1.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074 clause 8.7 &amp; C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below:                (1) Measure and sum the spectra across the outputs or                (2) Measure and add 10 log(N) dB             </li> </ul>
	<ul style="list-style-type: none"> <li>▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul>

**3.1.4 Test Setup**



**3.1.5 Measurement Results Calculation**

The measured Level is calculated using:

Corrected Reading:  $Antenna\ Factor\ (AF) + Cable\ loss\ (CL) + Read\ level\ (Raw) - Preamp\ factor\ (PA)$  (if applicable) = Level.





### **3.1.6 Emissions in Restricted Frequency Bands (Below 30MHz)**

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

### **3.1.7 Test Result of Emissions in Restricted Frequency Bands**

Refer as Appendix A



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 02, 2024	Aug. 01, 2025	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 03, 2023	Nov. 02, 2024	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 20, 2023	Oct. 19, 2024	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+68	30MHz~1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)

Note: Calibration Interval of instruments listed above is one year.

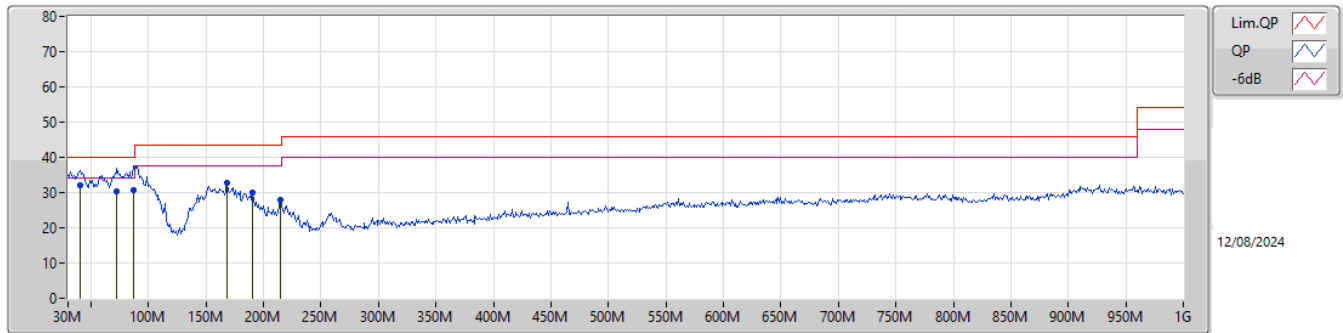
NCR means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	40.67M	32.00	40.00	-8.00	Vertical

## Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
QP	40.67M	32.00	40.00	-8.00	-12.62	3	Vertical	272	1.00	"Worst"	44.62	18.50	1.26	32.38
QP	72.68M	30.28	40.00	-9.72	-18.57	3	Vertical	6	2.00	-	48.85	12.24	1.50	32.31
QP	87.23M	30.60	40.00	-9.40	-16.58	3	Vertical	102	1.00	-	47.18	14.20	1.60	32.38
PK	168.71M	32.91	43.50	-10.59	-14.72	3	Vertical	332	1.00	-	47.63	15.57	2.03	32.32
PK	190.05M	29.96	43.50	-13.54	-15.31	3	Vertical	0	1.00	-	45.27	14.86	2.14	32.31
PK	214.3M	28.08	43.50	-15.42	-15.20	3	Vertical	163	1.25	-	43.28	14.81	2.25	32.26

