

# TEST REPORT



**CTK Co., Ltd.**  
(Ho-dong), 113, Yejik-ro, Cheoin-gu,  
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Report No.:  
CTK-2024-01078  
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## 1. Applicant

- Name : SJIT Co.,Ltd
- Address : 54-11, Dongtanhana 1-gil, Hwaseong-si, Gyeonggi-do, South Korea
- Date of Receipt : 2024-03-12

## 2. Manufacturer

- Name : SJIT Co.,Ltd
- Address : 54-11, Dongtanhana 1-gil, Hwaseong-si, Gyeonggi-do, South Korea

**3. Use of Report :** For FCC Conformance / ISED Conformance

**4. Test Sample / Model:** AUDIO TRANSCEIVER / ATM211

**5. Date of Test :** 2024-03-29 to 2024-04-05

**6. Test Standard(method) used :** FCC 47 CFR part 15 subpart E 15.407  
ISED RSS-247 & RSS-Gen

**7. Testing Environment:** Temp.: (20 ± 1) °C, Humidity: (35 ± 3) % R.H.

**8. Test Results :** Compliance

**9. Location of Test :**  Permanent Testing Lab     On Site Testing  
(Address : (Unhak-Dong) 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yong-in-si,  
Gyeonggi-do, Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This report cannot be reproduced or copied without the written consent of CTK.

Approval	Tested by	Technical Manager
	Ji-Hye, Kim: (Signature)	Won-Jae, Hwang: (Signature)

Remark. This report is not related to KOLAS accreditation and relevant regulation.

2024-04-12

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## REPORT REVISION HISTORY

Date	Revision	Page No
2019-06-28	Issued (CTK-2019-02342)	all
2019-12-03	Issued (CTK-2019-02342-1) - Added model name : ATM211	all
2024-04-12	Issued (CTK-2024-01078) - Add UNII3 frequency and UNII4 bands to the ATM211 model.	all

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## 1. General Product Description

### 1.1 Applicant Information

<b>Company</b>	SJIT Co.,Ltd
<b>Contact Point</b>	54-11, Dongtanhana 1-gil, Hwaseong-si, Gyeonggi-do, South Korea
<b>Contact Person</b>	Name : Wan Seong Kim E-mail : wskim@seongji.co.kr Tel : +82-31-239-8194

### 1.2 Product Information

<b>FCC ID</b>	2BEK7ATM210	
<b>ISED</b>	32019-ATM210	
<b>Product Description</b>	AUDIO TRANSCEIVER	
<b>Model name</b>	ATM211	
<b>Variant Model name</b>	-	
<b>Operating Frequency</b>	UNII 3	2 MHz_BW : 5 826.35 MHz – 5 848.35 MHz 4 MHz_BW : 5 827.35 MHz – 5 847.35 MHz
	UNII 4	2 MHz_BW : 5 850.35 MHz – 5 874.35 MHz 4 MHz_BW : 5 849.35 MHz – 5 875.35 MHz
<b>RF Output Power</b>	UNII 3	2 MHz_BW : 6.33 dBm (4.30 mW) 4 MHz_BW : 5.30 dBm (3.39 mW)
	UNII 4	2 MHz_BW : 8.31 dBm (6.78 mW) (EIRP) 4 MHz_BW : 7.36 dBm (5.45 mW) (EIRP)
<b>Antenna Specification</b>	Antenna type : PCB Antenna	
	UNII 3	Peak Gain : 1.2 dBi(ANT1), 2.2 dBi(ANT2)
	UNII 4	Peak Gain : 2.1 dBi(ANT1), 2.2 dBi(ANT2)
<b>Antenna Configurations</b>	SISO	
<b>Type of Modulation</b>	Pi/4 DQPSK	
<b>Power Source</b>	DC 3.3 V	
<b>Hardware Rev</b>	REV1.0	
<b>Software Rev</b>	AP mode(TX) : 78.47.15 Client mode(RX) : 78.47.1	

### 1.3 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	15-bs563TU	CND7253R6N
AC/DC Adapter	HP	HSTNN-LA40	-

### 1.4 Model Differences

Not applicable

## 2. Accreditations

### 2.1 Laboratory Accreditations and Listings

Country	Agency	Registration Number
USA	FCC	805871
CANADA	ISED	CN : 8737A CAB ID : KR0025
KOREA	NRRA	KR0025

### 2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



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### 3. Test Specifications

#### 3.1 Standards

FCC Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
<b>15.407 (e)</b>	6 dB Bandwidth	> 500 kHz (5 725 – 5 850 MHz, 5 850 – 5 895 MHz)	C	Conducted
<b>15.407 (a)</b>	26 dB Bandwidth and 99% Bandwidth	NA	C	
<b>15.407 (a)(1),(2),(3)</b>	Conducted Output Power	< 1 W (5 725 – 5 850 MHz)  < 30 dBm EIRP (5 850 – 5 895 MHz)	C	
<b>15.407 (a)(1),(2),(3)</b>	Power Spectral Density	< 30 dBm/500 kHz (5 725 – 5 850 MHz)  < 14 dBm/MHz EIRP (5 850 – 5 895 MHz)	C	
<b>15.407 (g)</b>	Frequency Stability	NA	C	
<b>15.407 (b)</b>	Undesirable emission	< -27 dBm/MHz EIRP < 10 dBm/MHz EIRP < 15.6 dBm/MHz EIRP < 27 dBm/MHz EIRP (5 725 – 5 850 MHz)  < -27 dBm/MHz EIRP < 10 dBm/MHz EIRP < 15.6 dBm/MHz EIRP < 27 dBm/MHz EIRP < -27 dBm/MHz EIRP < -5 dBm/MHz EIRP (5 850 – 5 895 MHz)	C	Radiated
<b>15.205, 15.407 (b)(9),(10)</b>	Radiated Spurious Emission	15.209(a)	C	Line Conducted
<b>15.407 (b)(9)</b>	AC Conducted Emissions	15.207(a)	C	
<i>Note 1:</i> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<i>Note 2:</i> The data in this test report are traceable to the national or international standards.				
<i>Note 3:</i> The sample was tested according to the following specification: FCC Part 15.407, ANSI C63.10-2013				
<i>Note 4:</i> The tests were performed according to the method of measurements prescribed in KDB No.789033, KDB No.987594				



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ISED Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
<b>RSS-Gen 6.7</b>	6 dB Bandwidth	> 500 kHz (5 725 – 5 850 MHz, 5 850 – 5 895 MHz)	C	Conducted
<b>RSS-Gen 6.7</b>	26 dB Bandwidth and 99% Bandwidth	NA	C	
<b>RSS-247</b> <b>6.2.1.1, 6.2.2.1,</b> <b>6.2.3.1, 6.2.4.2</b>	Conducted Output Power	< 1 W (5 725 – 5 850 MHz)  < 30 dBm EIRP (5 850 – 5 895 MHz)	C	
<b>RSS-247</b> <b>6.2.1.1, 6.2.2.1,</b> <b>6.2.3.1, 6.2.4.2</b>	Power Spectral Density	< 30 dBm/500 kHz (5 725 – 5 850 MHz)  < 14 dBm/MHz EIRP (5 850 – 5 895 MHz)	C	
<b>RSS-Gen 6.11</b>	Frequency Stability	NA	C	
<b>RSS-247</b> <b>6.2.1.2, 6.2.2.2,</b> <b>6.2.3.2, 6.2.4.3</b>	Undesirable emission	< -27 dBm/MHz EIRP < 10 dBm/MHz EIRP < 15.6 dBm/MHz EIRP < 27 dBm/MHz EIRP (5 725 – 5 850 MHz)  < -27 dBm/MHz EIRP < 10 dBm/MHz EIRP < 15.6 dBm/MHz EIRP < 27 dBm/MHz EIRP < -27 dBm/MHz EIRP < -5 dBm/MHz EIRP (5 850 – 5 895 MHz)	C	Radiated
<b>RSS-Gen 6.13, 7.3, 8.9, 8.10</b>	Radiated Spurious Emission	RSS-Gen 7.3 8.9, 8.10	C	
<b>RSS-Gen 8.8</b>	AC Conducted Emissions	RSS-Gen 8.8	C	Line Conducted
<b>Note 1:</b> C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
<b>Note 2:</b> The data in this test report are traceable to the national or international standards.				
<b>Note 3:</b> The sample was tested according to the following specification: RSS-247, RSS-GEN				
<b>Note 4:</b> The tests were performed according to the method of measurements prescribed in KDB No.789033, KDB No.987594, ANSI C63.10-2013				



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### 3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.  
 During at testing, system components were manipulated within the confines of typical usage to maximize each emission.  
 The engineering test program was provided and enabled to make EUT continuous transmit.  
 The results are only attached ANT1 as worst cases.

#### Test Frequency & Bandwidth

- Digital Modulation\_2MHz\_BW

	Lowest channel	Middle channel	Highest channel
<b>UNII 3</b>	5 826.35 MHz	5 836.35 MHz	5 848.35 MHz
<b>UNII 4</b>	5 850.35 MHz	5 862.35 MHz	5 874.35 MHz

- Digital Modulation\_4MHz\_BW

	Lowest channel	Middle channel	Highest channel
<b>UNII 3</b>	5 827.35 MHz	5 837.35 MHz	5 847.35 MHz
<b>UNII 4</b>	5 849.35 MHz	5 863.35 MHz	5 875.35 MHz

Test mode	Duty Cycle
2MHz_BW	100%
4MHz_BW	100%





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### 3.3 Device Modifications

The following modifications were necessary for compliance:

Not applicable

### 3.4 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.  
 Coverage factor  $k = 2$ , Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	1.5 dB (C.L.: Approx. 95 %, $k = 2$ )
Power Spectral Density	1.5 dB (C.L.: Approx. 95 %, $k = 2$ )
Occupied Bandwidth	0.1 MHz (C.L.: Approx. 95 %, $k = 2$ )
Unwanted Emission(conducted)	3.0 dB (C.L.: Approx. 95 %, $k = 2$ )
Radiated Emissions ( $f \leq 1$ GHz)	3.88 dB (C.L.: Approx. 95 %, $k = 2$ )
Radiated Emissions ( $f > 1$ GHz)	4.50 dB (C.L.: Approx. 95 %, $k = 2$ )
Line Conducted Emission	2.08 dB (C.L.: Approx. 95 %, $k = 2$ )

### 3.5 Test Software

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	EP5RE Ver. 6.0.10, ES10 Ver. 2022.04.000
Line Conducted Test	EMC32 Ver. 10.50.00



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## 4. Technical Characteristic Test

### 4.1 6dB Bandwidth

#### Test Procedures

KDB 789033 – Section C.2  
ANSI C63.10-2013 - Section 6.9.2

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz
- b) VBW  $\geq 3 \times$  RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Sweep = auto couple
- f) Allow trace to fully stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### **Minimum Standard:**

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6 dB Bandwidth > 500 kHz

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**Test Data:**

	6 dB Bandwidth (MHz)
Mode	Digital Modulation_2MHz_BW
Frequency	
5 826.35 MHz	1.65
5 836.35 MHz	1.61
5 848.35 MHz	1.64
5 850.35 MHz	1.66
5 862.35 MHz	1.62
5 874.35 MHz	1.63
Measurement uncertainty	± 0.1 MHz

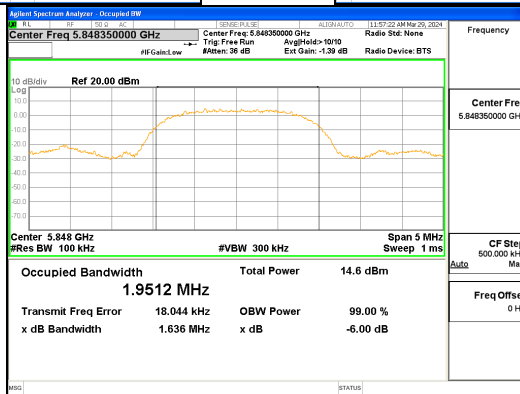
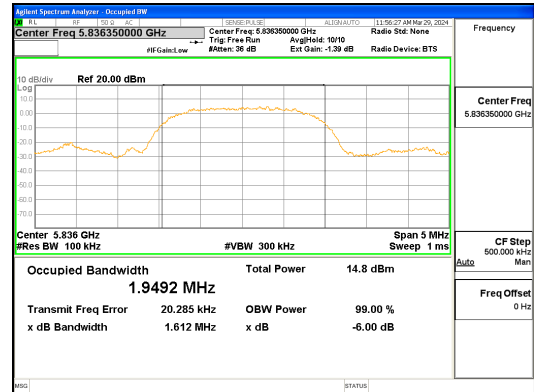
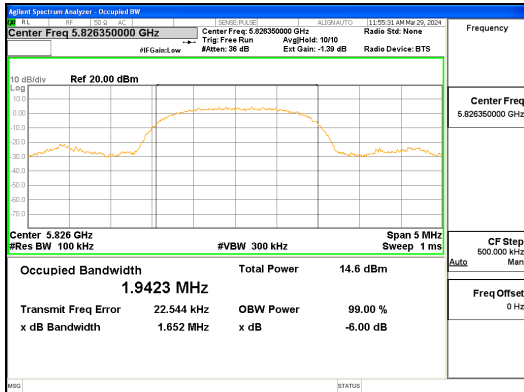
	6 dB Bandwidth (MHz)
Mode	Digital Modulation_4MHz_BW
Frequency	
5 827.35 MHz	3.55
5 837.35 MHz	3.51
5 847.35 MHz	3.54
5 849.35 MHz	3.61
5 863.35 MHz	3.55
5 875.35 MHz	3.56
Measurement uncertainty	± 0.1 MHz

See next pages for actual measured spectrum plots.

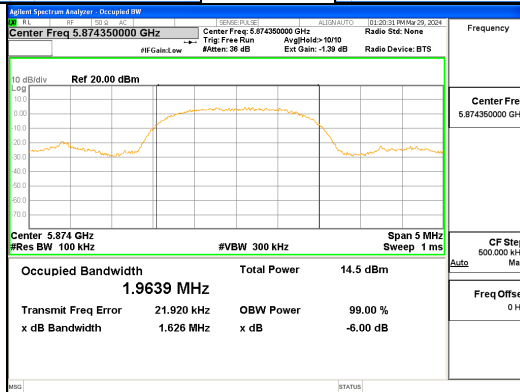
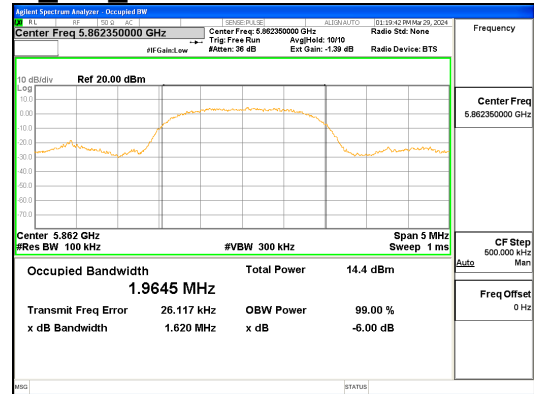
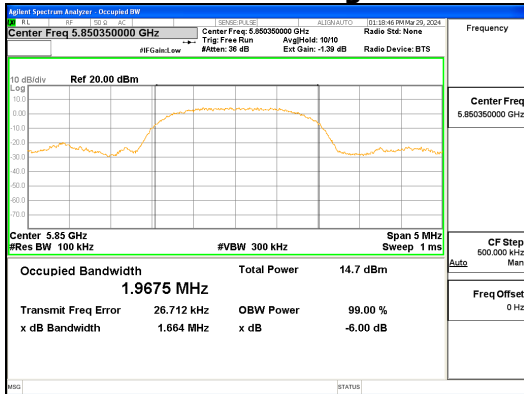


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### Digital Modulation\_2MHz\_BW\_UNII 3

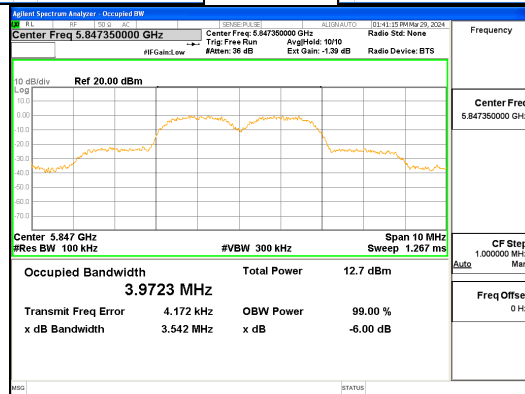
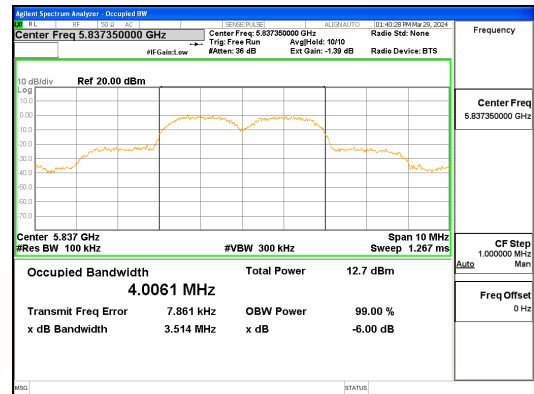
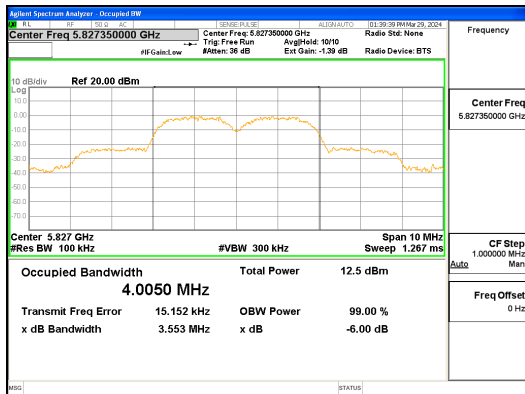


### Digital Modulation\_2MHz\_BW\_UNII 4

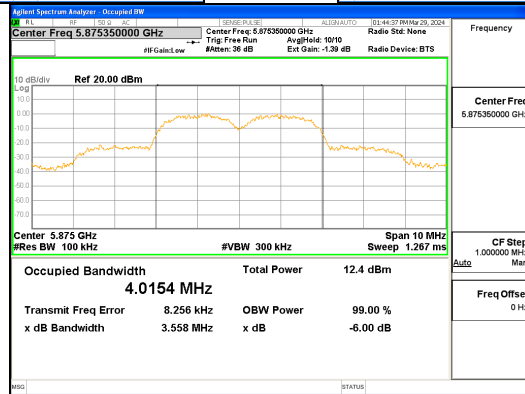
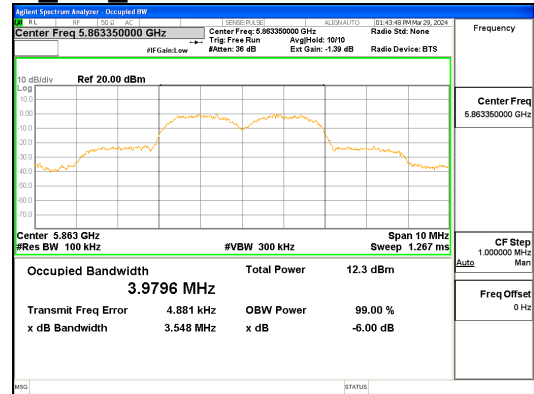
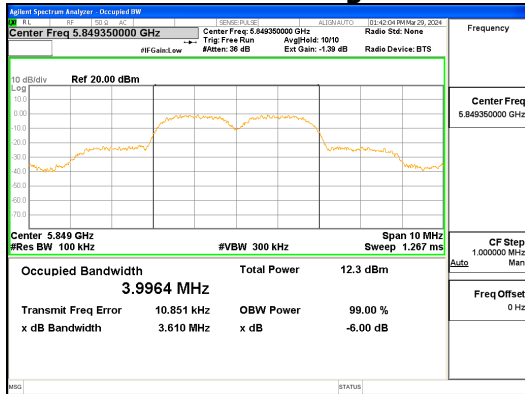


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**Digital Modulation\_4MHz\_BW\_UNII 3**



**Digital Modulation\_4MHz\_BW\_UNII 4**



## 4.2 26 dB Bandwidth and 99% Bandwidth

### Test Procedures

KDB 789033 – Section C.1  
ANSI C63.10-2013 - Section 6.9.2

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

### Test Procedures

KDB 789033 – Section C.1  
ANSI C63.10-2013 - Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = approximately 1 % of the emission bandwidth
- b) VBW  $\geq$  RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

### Minimum Standard:

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NA

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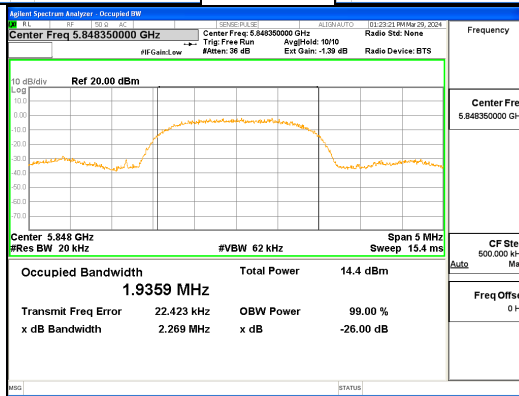
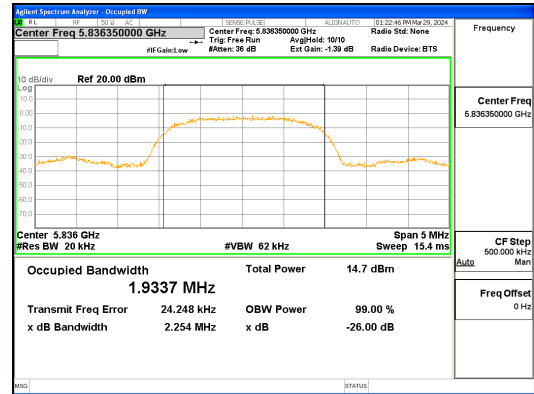
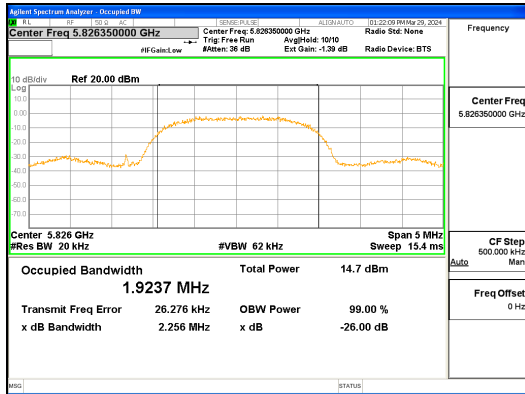
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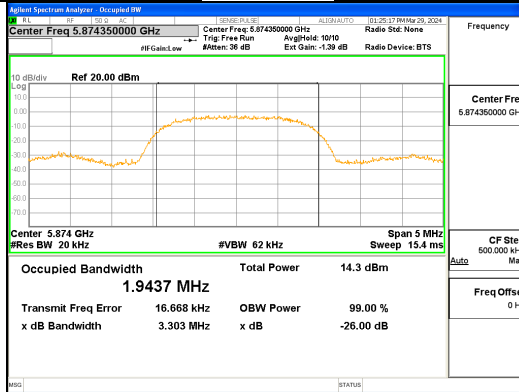
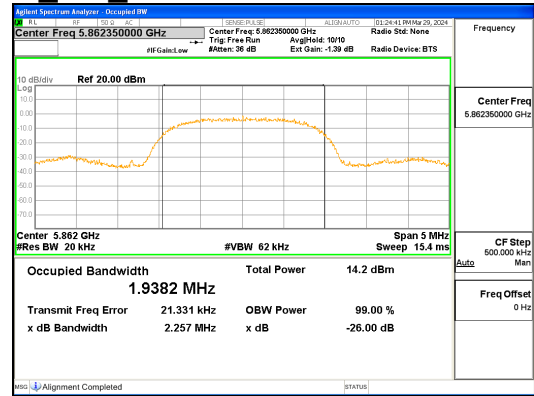
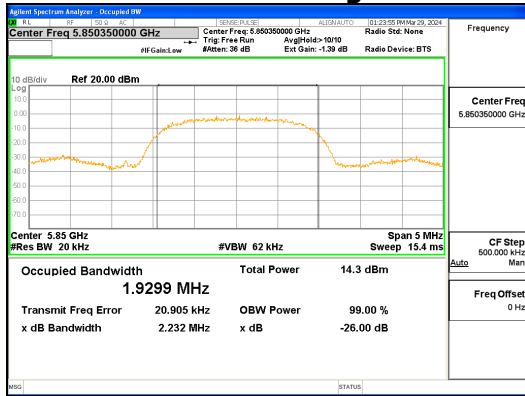
	99% Bandwidth (MHz)	
Mode	Digital Modulation_2MHz_BW	
Frequency	26 dB	99 %
5 826.35 MHz	2.26	1.92
5 836.35 MHz	2.25	1.93
5 848.35 MHz	2.27	1.94
5 850.35 MHz	2.23	1.93
5 862.35 MHz	2.26	1.94
5 874.35 MHz	3.30	1.94
Measurement uncertainty	± 0.1 MHz	

	99% Bandwidth (MHz)	
Mode	Digital Modulation_4MHz_BW	
Frequency	26 dB	99 %
5 827.35 MHz	7.45	4.01
5 837.35 MHz	7.47	3.97
5 847.35 MHz	7.37	3.95
5 849.35 MHz	7.53	3.99
5 863.35 MHz	7.52	4.01
5 875.35 MHz	7.21	4.00
Measurement uncertainty	± 0.1 MHz	

See next pages for actual measured spectrum plots.

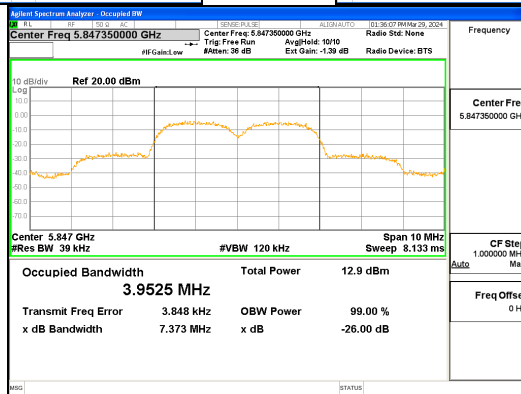
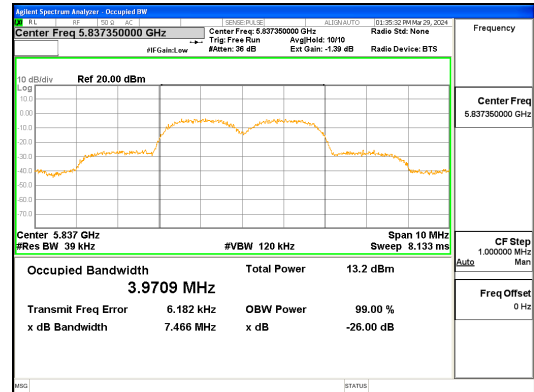
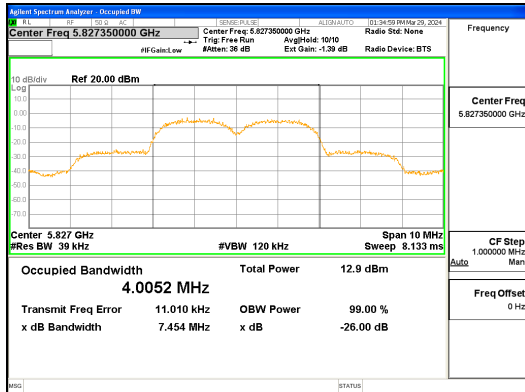


**Digital Modulation\_2MHz\_BW\_UNII 3**

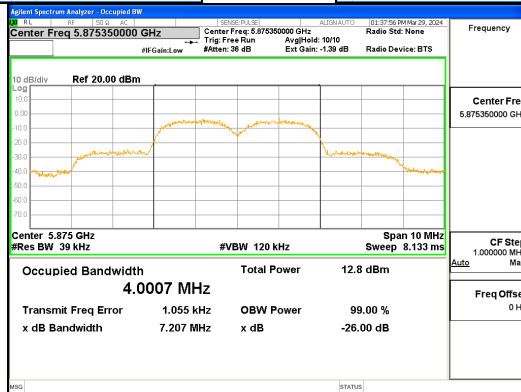
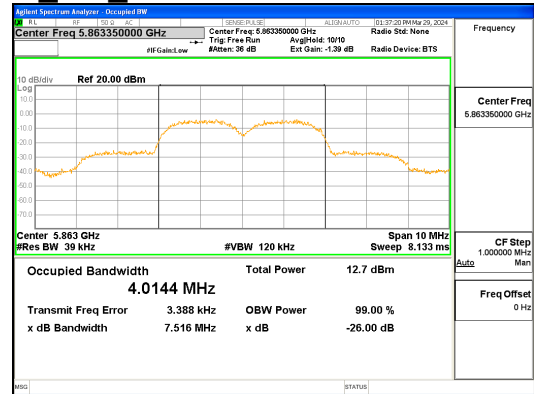
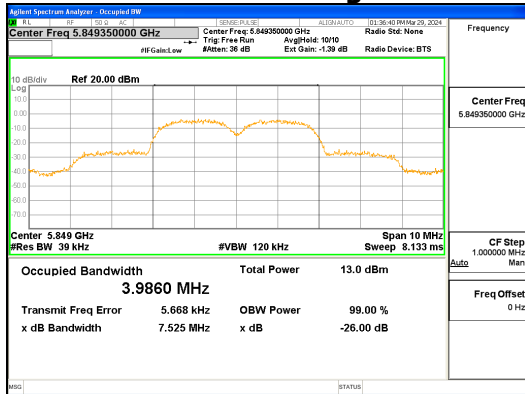


**Digital Modulation\_2MHz\_BW\_UNII 4**





**Digital Modulation\_4MHz\_BW\_UNII 3**



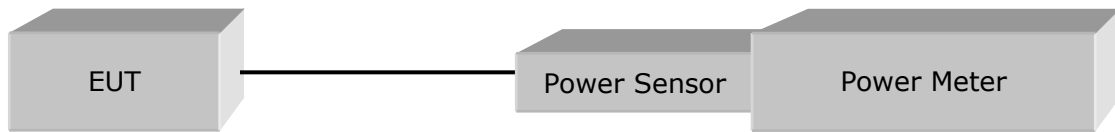
**Digital Modulation\_4MHz\_BW\_UNII 4**

## 4.3 OUTPUT POWER

### Test Procedures

KDB 789033 – Section E.3.a (Method PM, Maximum Conducted Output Power)  
ANSI C63.10-2013 – Section 12.3.3.1

The transmitter output is connected to a average power meter.



### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) Measure the average power of the transmitter.
- b) Duty cycle factor =  $10\log(1/x)$

Test mode	Duty Cycle Factor (dB)
Digital Modulation_2MHz	0.00
Digital Modulation_4MHz	0.00

### Limit

Band	Mode	ANT Configuration	ANT Gain (dBi)	Limit (dBm)
UNII 3	Digital Modulation	ANT1	2.2	30.00
UNII 4			2.2	30.00 (EIRP)



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**Test Data**

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Digital Modulation _2MHz_BW	5 826.35	6.33	-	30.00	23.67
	5 836.35	6.18	-	30.00	23.82
	5 848.35	6.13	-	30.00	23.87
	5 850.35	6.11	8.31	30.00	21.69
	5 862.35	6.03	8.23	30.00	21.77
	5 874.35	5.98	8.18	30.00	21.82
Digital Modulation _4MHz_BW	5 827.35	5.30	-	30.00	24.70
	5 837.35	5.26	-	30.00	24.74
	5 847.35	5.18	-	30.00	24.82
	5 849.35	5.16	7.36	30.00	22.64
	5 863.35	5.10	7.30	30.00	22.70
	5 875.35	5.01	7.21	30.00	22.79
Measurement uncertainty		± 1.5 dB			

See next pages for actual measured spectrum plots.



## 4.4 Power Spectral Density

### Test Procedures

KDB 789033 – Section F (Method SA-1, Maximum Power Spectral Density)  
 ANSI C63.10-2013 – Section 12.5

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 500 kHz (UNII 3), 1 MHz (UNII 4)
- b) VBW = 1.5 MHz (UNII 3), 3 MHz (UNII 4)
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100

### Limit

Band	Mode	ANT Configuration	ANT Gain (dBi)	Limit (dBm)
UNII 3	Digital Modulation	ANT1	2.2	30.00
UNII 4			2.2	14.00 (EIRP)



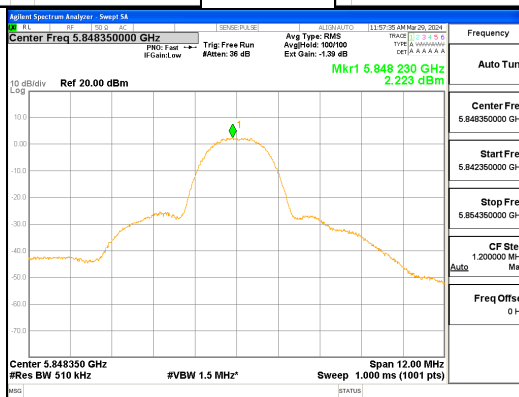
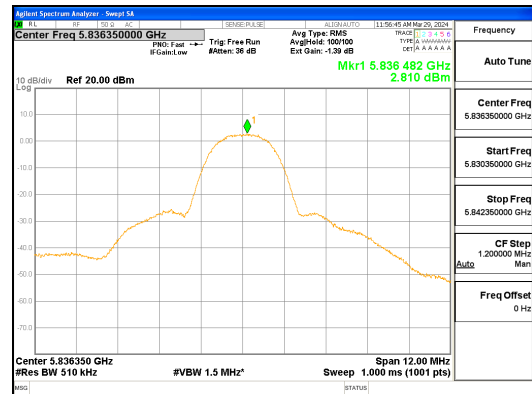
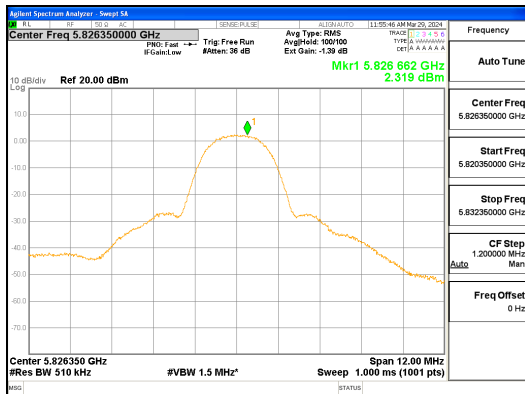
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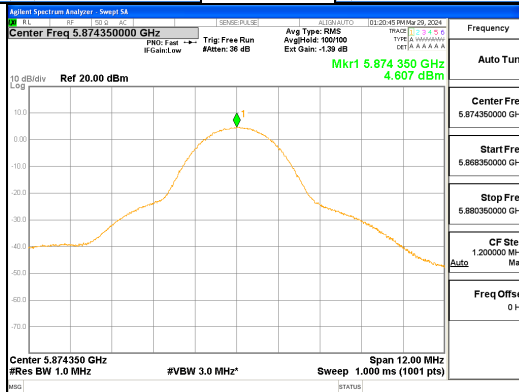
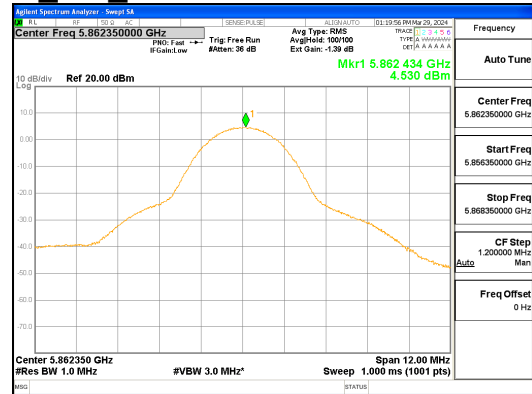
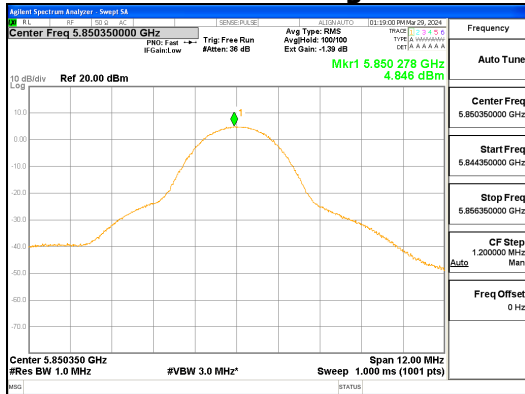
**Test Data**

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Power Density (EIRP) (dBm)	Limit (dBm)	Margin (dB)
Digital Modulation _2MHz_BW	5 826.35	2.32	-	30.00	27.68
	5 836.35	2.81	-	30.00	27.19
	5 848.35	2.22	-	30.00	27.78
	5 850.35	4.85	7.05	14.00	6.95
	5 862.35	4.53	6.73	14.00	7.27
	5 874.35	4.61	6.81	14.00	7.19
Digital Modulation _4MHz_BW	5 827.35	-1.68	-	30.00	31.68
	5 837.35	-1.22	-	30.00	31.22
	5 847.35	-1.30	-	30.00	31.30
	5 849.35	0.74	2.94	14.00	11.06
	5 863.35	0.54	2.74	14.00	11.26
	5 875.35	0.54	2.74	14.00	11.26
Measurement uncertainty		± 1.5 dB			

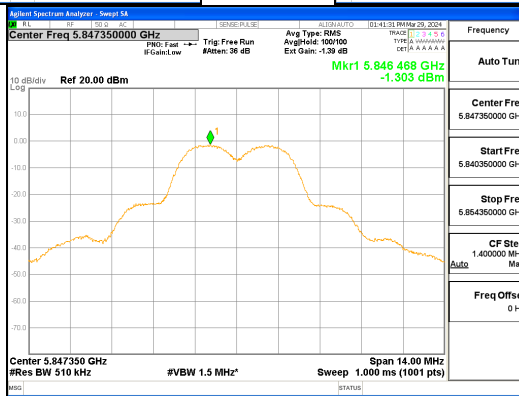
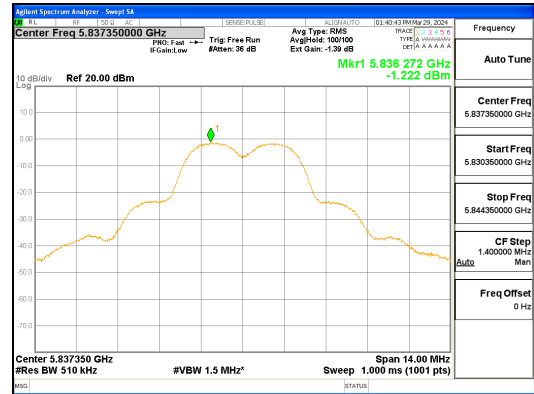
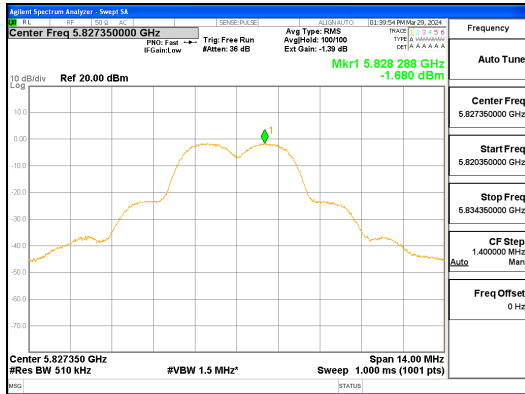
See next pages for actual measured spectrum plots.



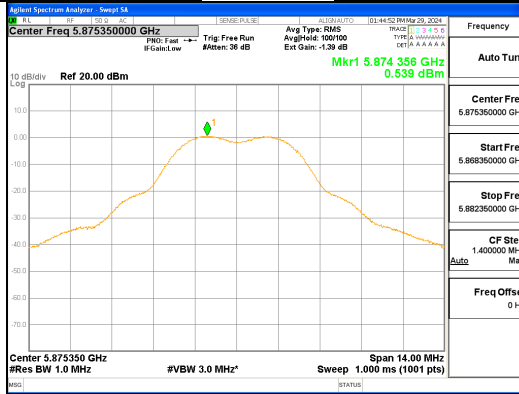
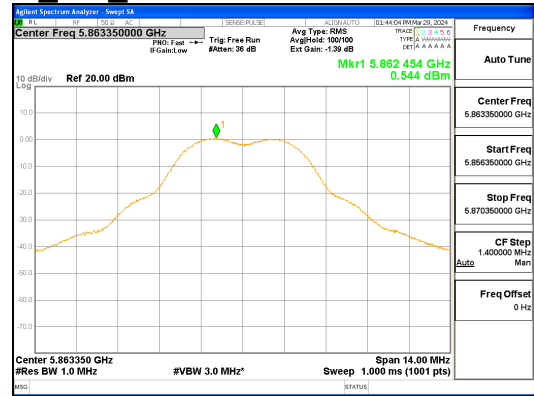
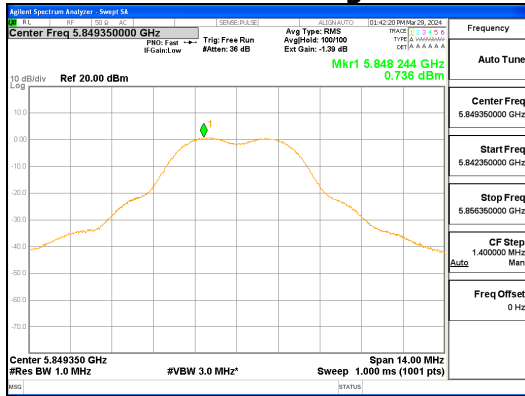
### Digital Modulation\_2MHz\_BW\_UNII 3



### Digital Modulation\_2MHz\_BW\_UNII 4



**Digital Modulation\_4MHz\_BW\_UNII 3**



**Digital Modulation\_4MHz\_BW\_UNII 4**



## 4.5 Frequency Stability

### Test Procedures

KDB 789033 – Section A.3

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 0 °C and +60 °C (Declaration by the Manufacturer). The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

Data for the worst case channel is shown below.

Measured Frequency Error (kHz)				
Voltage (VDC)	Temperature (°C)	Test Frequency (MHz)		
		5 826.35	5 836.35	5 848.35
3.3	0	55.211	49.685	50.229
3.3	10	47.187	49.700	44.384
3.3	20(Ref)	33.918	31.664	34.875
3.3	30	23.366	22.146	21.751
3.3	40	10.235	7.375	4.826
3.3	50	-3.467	-4.113	-5.568
3.3	60	-4.392	-4.903	-3.631
2.81	20(Ref)	35.325	32.490	33.012
3.80	20(Ref)	32.148	32.839	35.334





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Measured Frequency Error (kHz)				
Voltage (VDC)	Temperature (°C)	Test Frequency (MHz)		
		5 850.35	5 862.35	5 874.35
3.3	0	48.844	51.967	52.555
3.3	10	46.241	46.987	47.685
3.3	20(Ref)	33.576	35.434	37.470
3.3	30	19.573	20.692	17.913
3.3	40	5.982	8.779	9.848
3.3	50	-2.973	-3.896	-5.502
3.3	60	-7.272	-6.727	-4.967
2.81	20(Ref)	36.753	29.990	31.135
3.80	20(Ref)	34.096	33.482	33.259

Note :

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature range as tested.

## 4.6 Unwanted Emissions

### Test Location

- 10 m SAC (test distance :  10 m,  3 m)  
 3 m SAC (test distance : 3 m)

### Test Procedures

KDB 789033 - Section G  
ANSI C63.10-2013 – Section 12.7

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

### Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

- a) RBW = 100 kHz for  $f < 1$  GHz, 9 kHz for  $f < 30$  MHz  
b) VBW  $\geq$  RBW  
c) Detector = CISPR Quasi-peak  
d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 40 GHz

- a) RBW = 1 MHz  
b) VBW  $\geq 3 \times$  RBW  
c) Detector = Peak  
d) Sweep time = auto  
e) Trace mode = max hold

- Average (duty cycle  $\geq 98\%$ )

Frequency Range = 1 GHz ~ 40 GHz

- a) RBW = 1 MHz  
b) VBW  $\geq 3 \times$  RBW  
c) Detector = RMS  
d) Sweep time = auto  
e) Averaging type = power (i.e., RMS)  
f) Trace mode = average (at least 100 traces)

## Limit

1. UNII 3 : All emissions shall be limited to a level of  $-27$  dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

2. UNII 4 : [Lowest Channel]

For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of  $-27$  dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

[Highest Channel]

For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of  $-5$  dBm/MHz and shall decrease linearly to an e.i.r.p. of  $-27$  dBm/MHz at or above 5.925 GHz.

$$*E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2, \text{ for } d = 3\text{m}$$

3. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

- 15.209(a)

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

\*\* Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.



4. FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
<sup>1</sup> 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	<sup>2</sup> Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

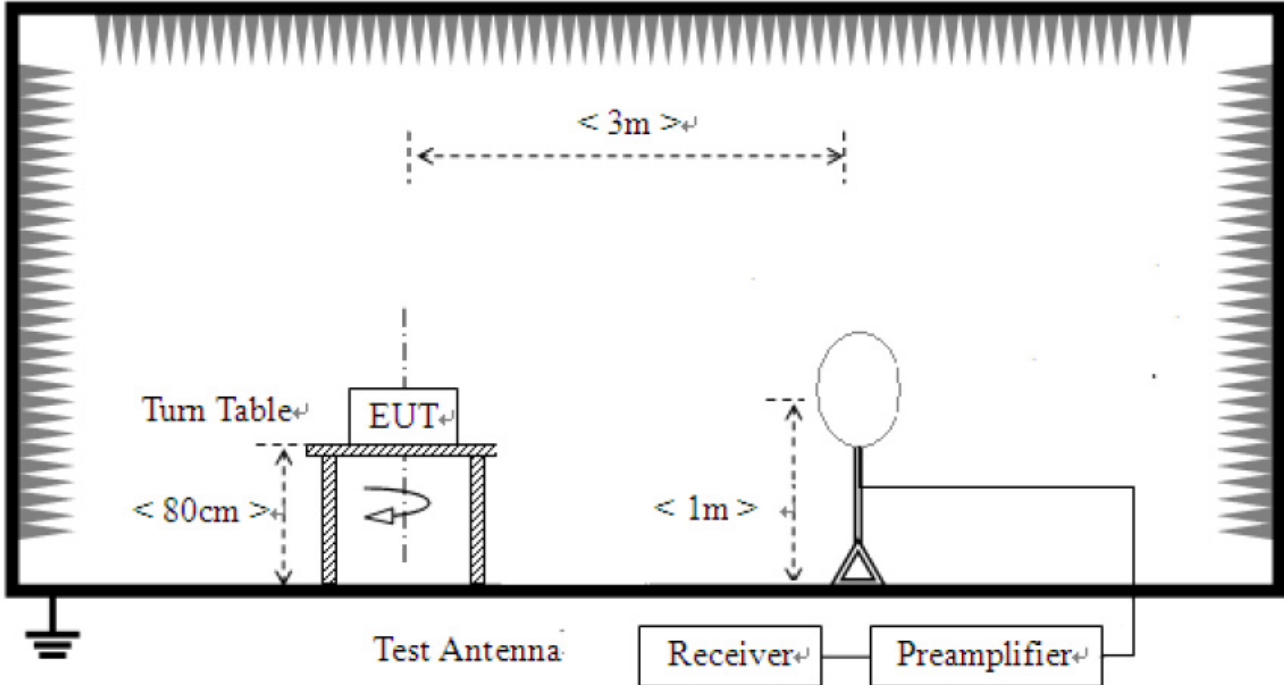
§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

Note :

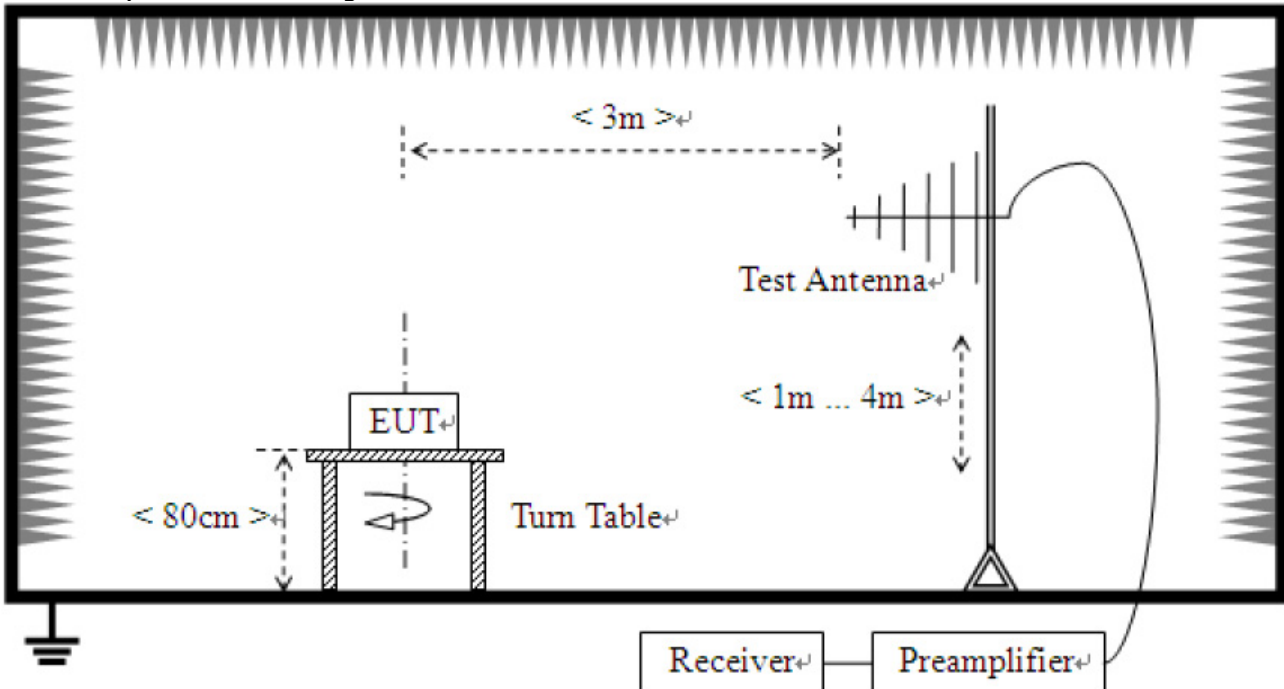
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

**Test Setup:**

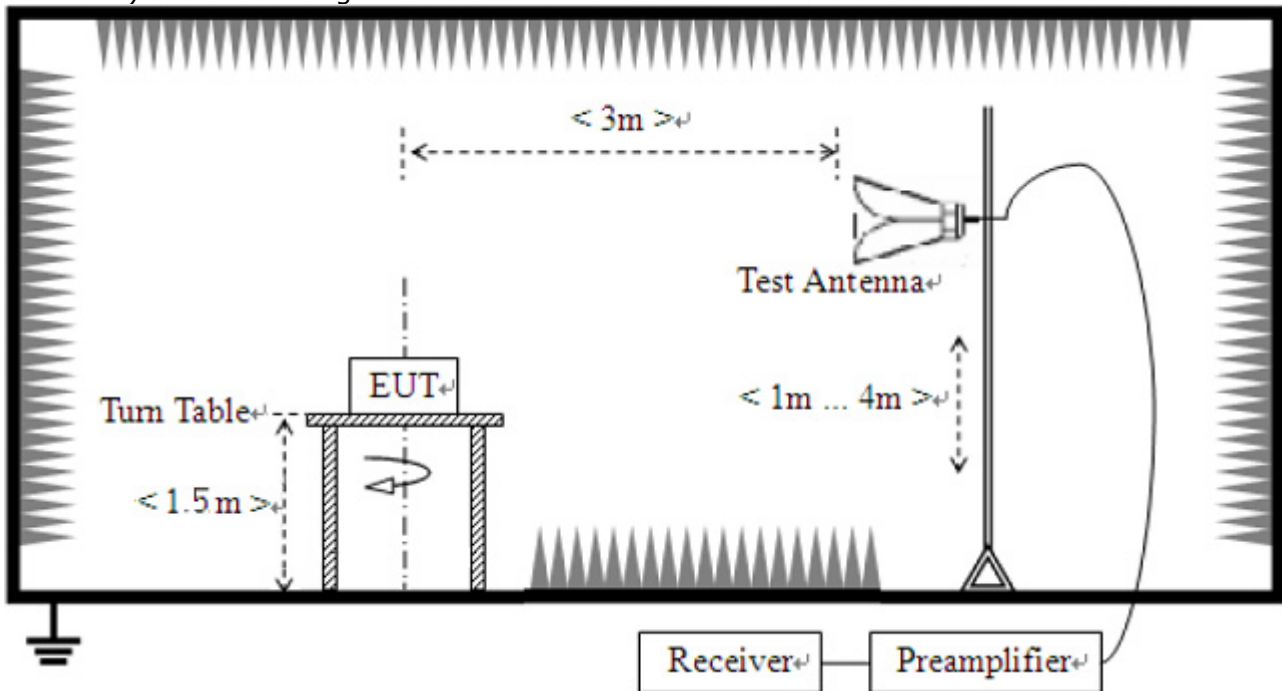
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



## Test Results

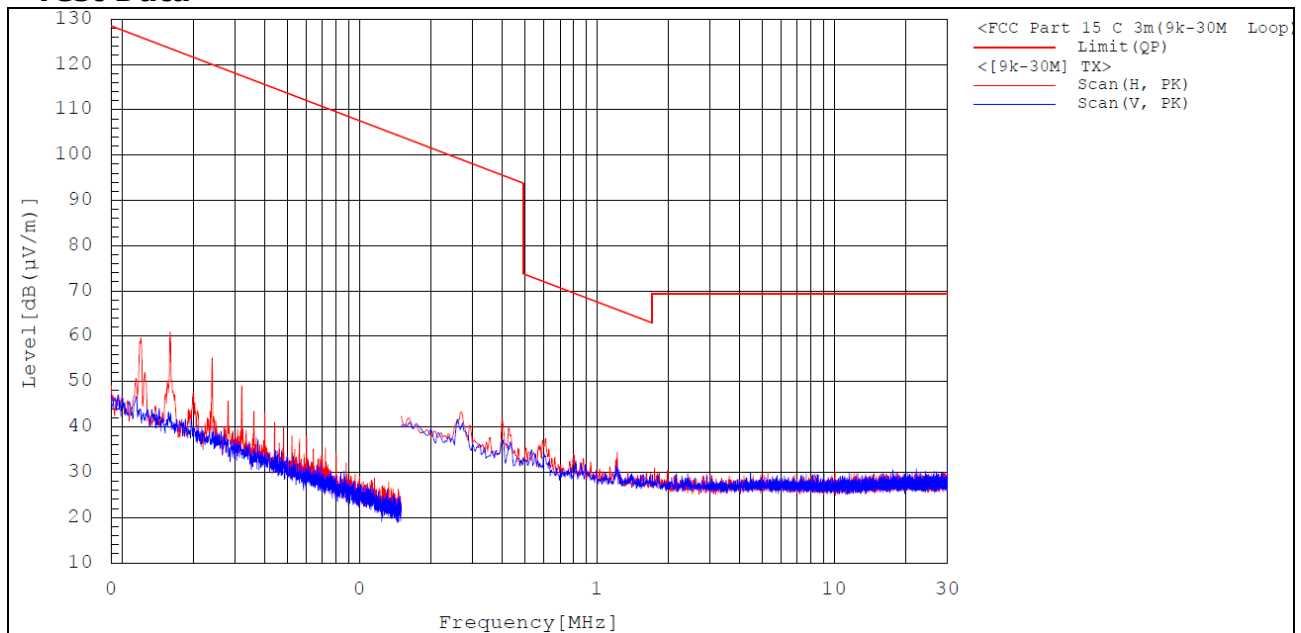
### 1) 9 kHz to 30 MHz

#### Test mode : Transmitter (Worst Case)

The requirements are:

Complies

#### Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
-----------------	-----	----------------	---------------	------------------	------------------	-------------

The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

#### Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
4. This data is the Peak(PK) value.

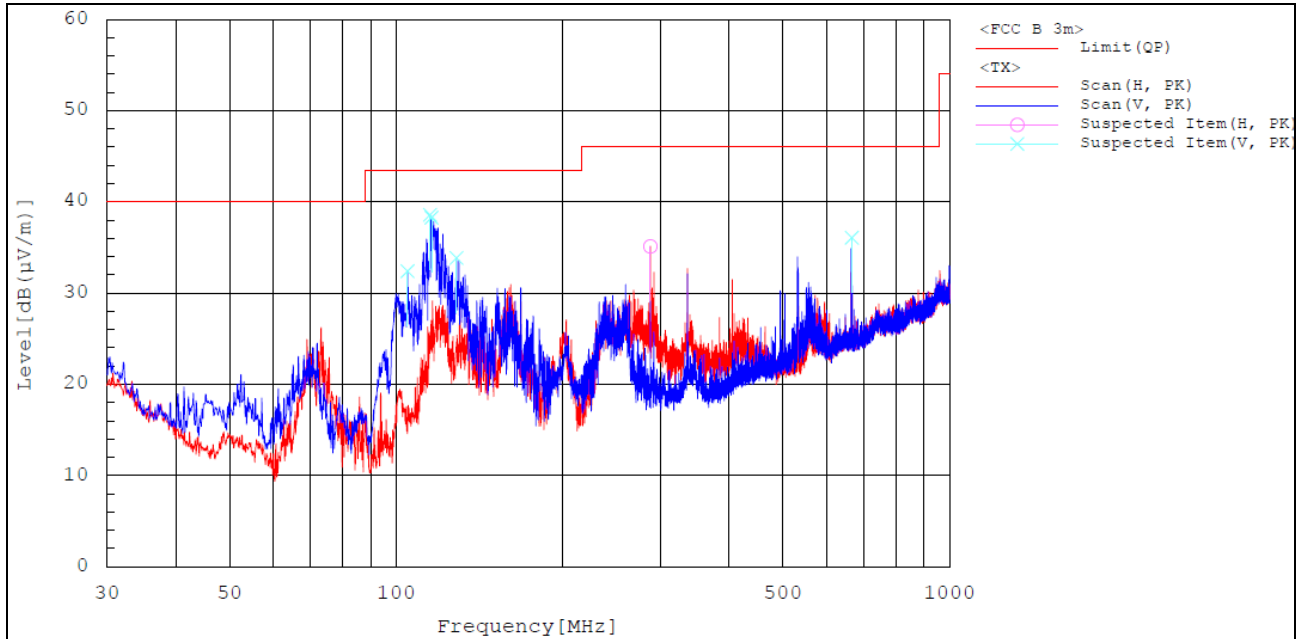
## 2) 30 MHz to 1 GHz

### Test mode : Transmitter (Worst Case)

The requirements are:

Complies

#### Test Data



#### Spectrum Selection

No.	Frequency [MHz]	Pol	Reading PK [dB (µV)]	c.f [dB (1/m)]	Result PK [dB (µV/m)]	Limit QP [dB (µV/m)]	Margin QP-PK [dB]	Height [cm]	Angle [deg]	Remark
1	104.884	V	46.8	-14.4	32.4	43.5	11.1	100.0	109.5	
2	115.166	V	52.3	-13.7	38.6	43.5	4.9	100.0	351.5	
3	115.845	V	52.0	-13.7	38.3	43.5	5.2	100.0	297.6	
4	128.552	V	46.8	-13.0	33.8	43.5	9.7	100.0	38.6	
5	288.020	H	45.7	-10.6	35.1	46.0	10.9	100.0	212.9	
6	666.223	V	37.4	-1.3	36.1	46.0	9.9	100.0	286.8	

#### Remark :

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.

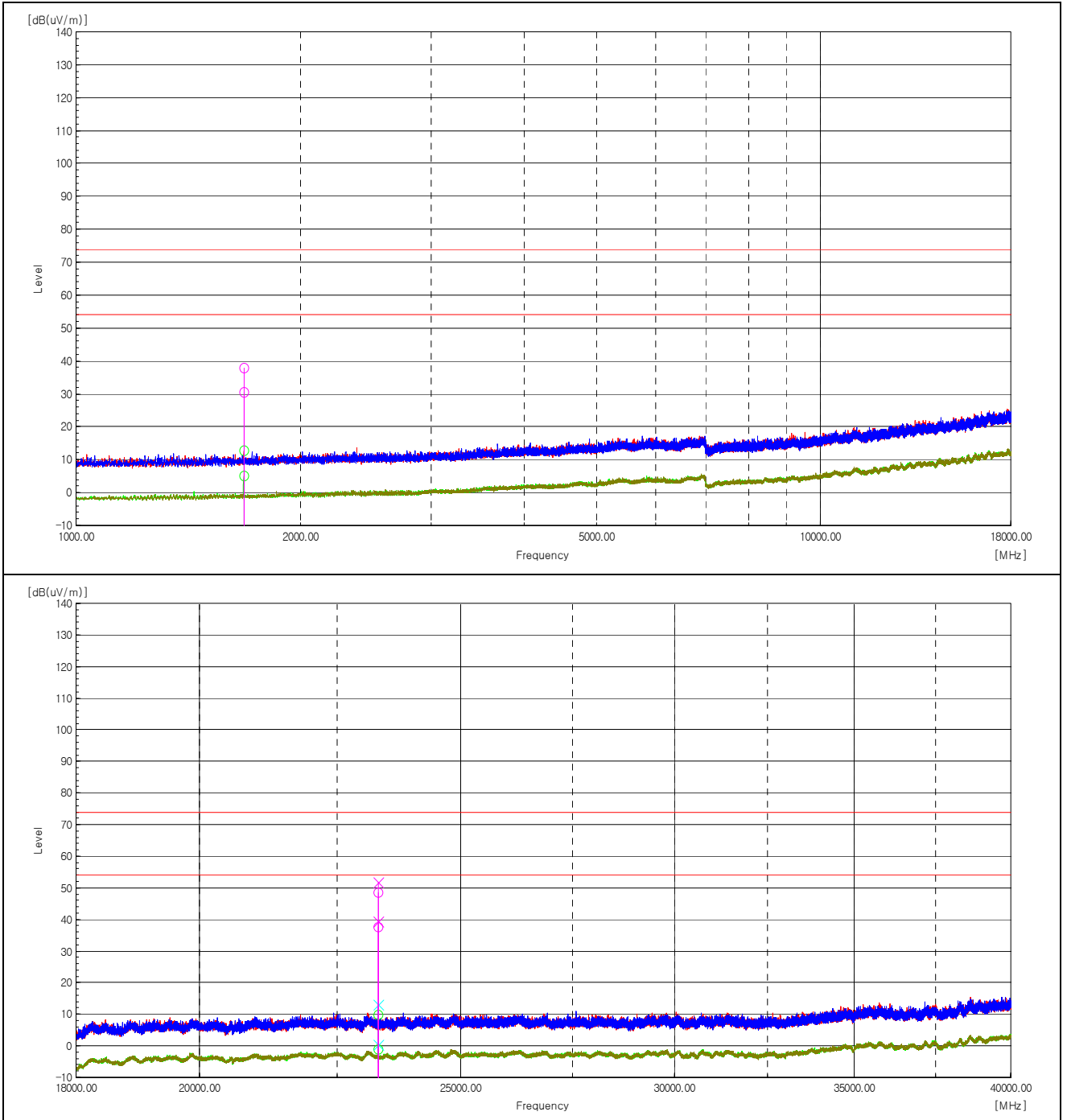


### 3) above 1 GHz

The requirements are:

Complies

#### Test Data





**Test mode : Digital Modulation\_2MHz\_BW**

The requirements are:

Complies

**Test Data**

**5 826.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 304.05	H	50.4	-0.2	50.2	-----	74.0	-----	23.8	-----	Peak
23 306.16	H	39.0	-0.2	-----	38.8	-----	54.0	-----	15.2	Average
23 306.58	V	54.5	-0.2	54.3	-----	74.0	-----	19.7	-----	Peak
23 304.62	V	41.3	-0.2	-----	41.1	-----	54.0	-----	12.9	Average

**5 836.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 346.13	H	50.7	-0.3	50.4	-----	74.0	-----	23.6	-----	Peak
23 344.75	H	39.1	-0.3	-----	38.8	-----	54.0	-----	15.2	Average
23 344.35	V	55.3	-0.3	55.0	-----	74.0	-----	19.0	-----	Peak
23 346.06	V	41.5	-0.3	-----	41.2	-----	54.0	-----	12.8	Average

**5 848.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 394.10	H	51.1	-0.4	50.7	-----	74.0	-----	23.3	-----	Peak
23 392.81	H	39.3	-0.4	-----	38.9	-----	54.0	-----	15.1	Average
23 392.30	V	55.1	-0.4	54.7	-----	74.0	-----	19.3	-----	Peak
23 394.42	V	41.7	-0.4	-----	41.3	-----	54.0	-----	12.7	Average

**5 850.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 402.53	H	48.2	-0.4	47.8	-----	74.0	-----	26.2	-----	Peak
23 401.65	H	38.1	-0.4	-----	37.7	-----	54.0	-----	16.3	Average
23 399.89	V	51.9	-0.4	51.5	-----	74.0	-----	22.5	-----	Peak
23 400.77	V	40.2	-0.4	-----	39.8	-----	54.0	-----	14.2	Average



5 862.35 MHz

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 450.94	H	48.5	-0.3	48.2	-----	74.0	-----	25.8	-----	Peak
23 448.30	H	38.5	-0.3	-----	38.2	-----	54.0	-----	15.8	Average
23 448.30	V	53.1	-0.3	52.8	-----	74.0	-----	21.2	-----	Peak
23 450.06	V	41.6	-0.3	-----	41.3	-----	54.0	-----	12.7	Average

5 874.35 MHz

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 499.34	H	49.5	-0.3	49.2	-----	74.0	-----	24.8	-----	Peak
23 496.70	H	38.0	-0.3	-----	37.7	-----	54.0	-----	16.3	Average
23 496.70	V	52.4	-0.3	52.1	-----	74.0	-----	21.9	-----	Peak
23 496.70	V	41.3	-0.3	-----	41.0	-----	54.0	-----	13.0	Average

**Remarks**

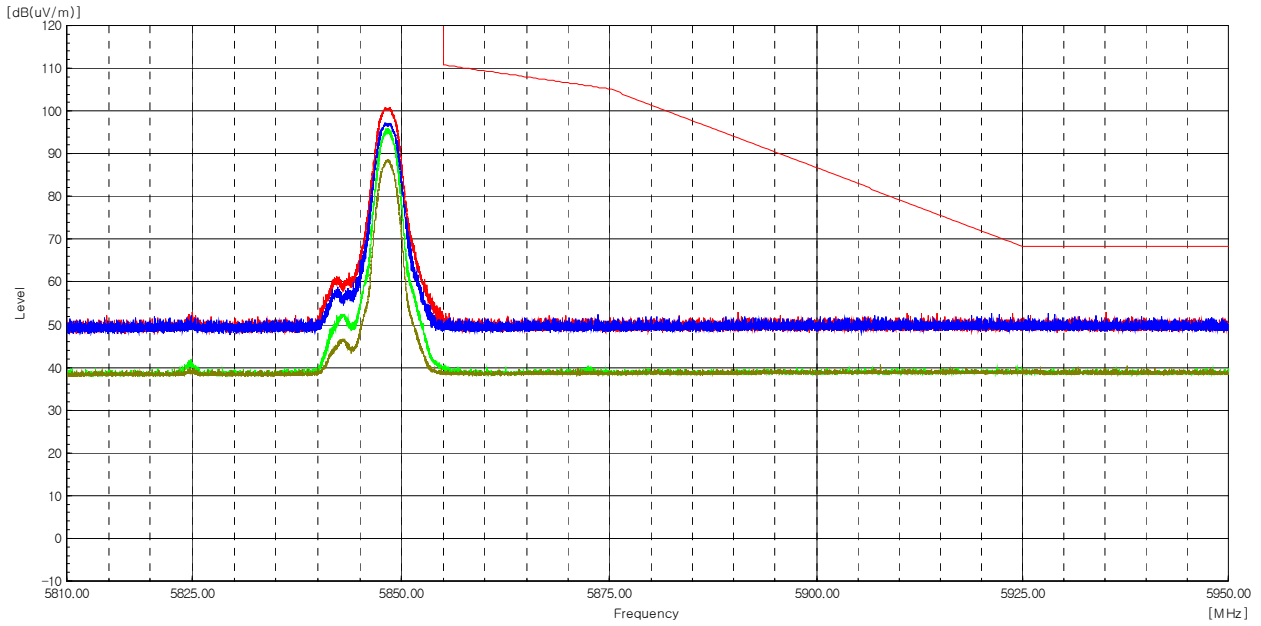
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)  
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain



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Report No.:  
 CTK-2024-01078  
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Worst Case Mode :	Digital Modulation_2MHz BW
Distance of Measurements :	3 Meters
Operating Frequency :	5 848.35 MHz



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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The emissions above 1 GHz were 20 dB lower than the limit.

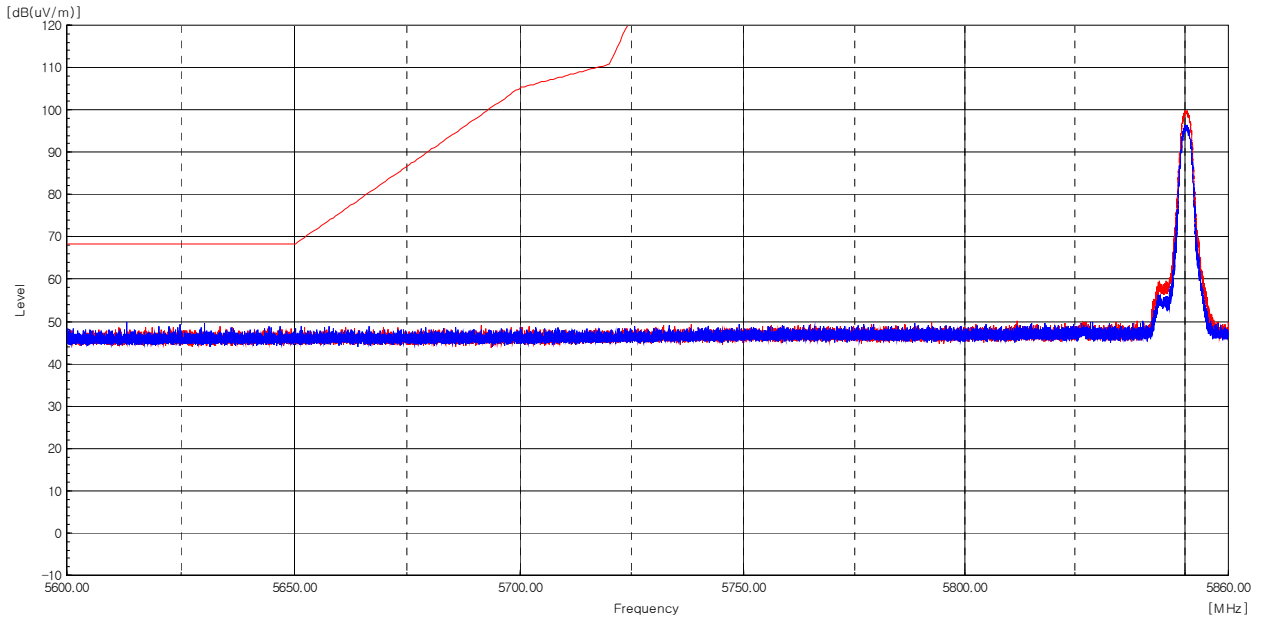
### Radiated Restricted Band Edge Plot



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Report No.:  
 CTK-2024-01078  
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Worst Case Mode :	Digital Modulation_2MHz BW
Distance of Measurements :	3 Meters
Operating Frequency :	5 850.35 MHz



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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The emissions above 1 GHz were 20 dB lower than the limit.

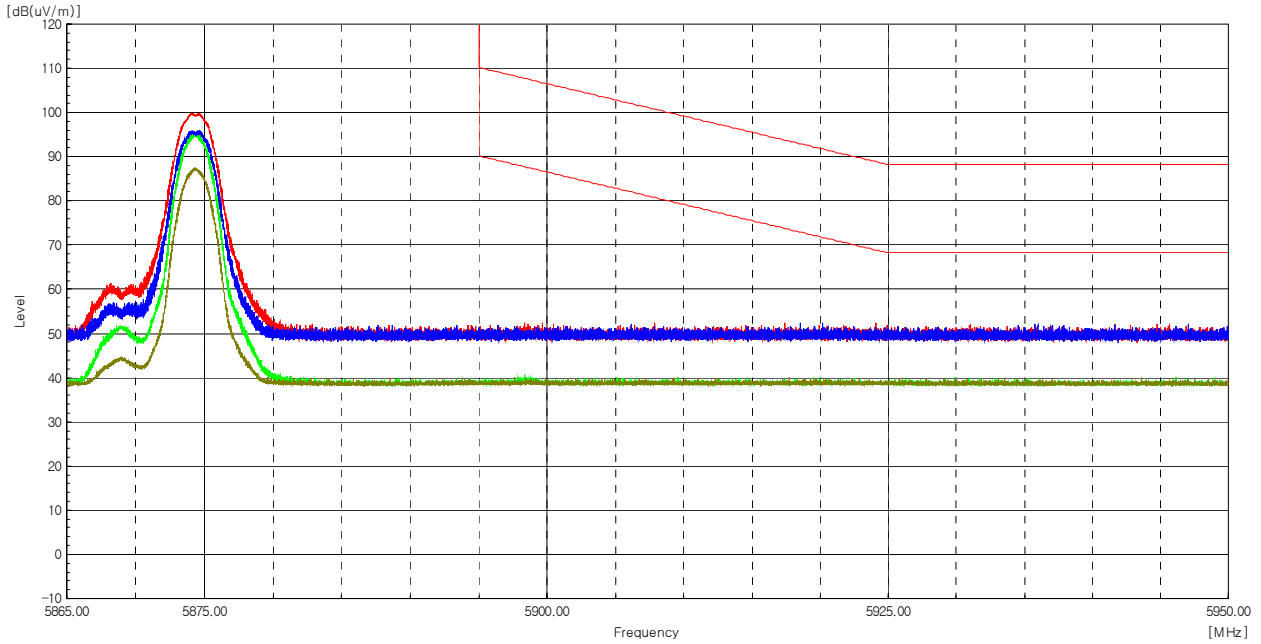
### Radiated Restricted Band Edge Plot



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Report No.:  
 CTK-2024-01078  
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Worst Case Mode :	Digital Modulation_2MHz BW
Distance of Measurements :	3 Meters
Operating Frequency :	5 874.35 MHz



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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The emissions above 1 GHz were 20 dB lower than the limit.

### Radiated Restricted Band Edge Plot



**Test mode : Digital Modulation\_4MHz\_BW**

The requirements are:  
 Complies

**Test Data**

**5 827.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 310.28	H	50.3	-0.2	50.1	-----	74.0	-----	23.9	-----	Peak
23 308.54	H	38.9	-0.2	-----	38.7	-----	54.0	-----	15.3	Average
23 308.84	V	53.5	-0.2	53.3	-----	74.0	-----	20.7	-----	Peak
23 308.56	V	41.1	-0.2	-----	40.9	-----	54.0	-----	13.1	Average

**5 837.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 350.18	H	50.2	-0.3	49.9	-----	74.0	-----	24.1	-----	Peak
23 348.59	H	38.9	-0.3	-----	38.6	-----	54.0	-----	15.4	Average
23 348.40	V	53.8	-0.3	53.5	-----	74.0	-----	20.5	-----	Peak
23 348.61	V	41.1	-0.3	-----	40.8	-----	54.0	-----	13.2	Average

**5 847.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 388.70	H	50.8	-0.4	50.4	-----	74.0	-----	23.6	-----	Peak
23 388.75	H	39.1	-0.4	-----	38.7	-----	54.0	-----	15.3	Average
23 388.62	V	54.0	-0.4	53.6	-----	74.0	-----	20.4	-----	Peak
23 388.58	V	41.8	-0.4	-----	41.4	-----	54.0	-----	12.6	Average

**5 849.35 MHz**

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 397.25	H	48.6	-0.4	48.2	-----	74.0	-----	25.8	-----	Peak
23 398.13	H	38.2	-0.4	-----	37.8	-----	54.0	-----	16.2	Average
23 397.25	V	50.9	-0.4	50.5	-----	74.0	-----	23.5	-----	Peak
23 396.37	V	40.6	-0.4	-----	40.2	-----	54.0	-----	13.8	Average



5 863.35 MHz

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 454.46	H	47.8	-0.3	47.5	-----	74.0	-----	26.5	-----	Peak
23 452.70	H	38.0	-0.3	-----	37.7	-----	54.0	-----	16.3	Average
23 451.82	V	50.5	-0.3	50.2	-----	74.0	-----	23.8	-----	Peak
23 452.70	V	40.8	-0.3	-----	40.5	-----	54.0	-----	13.5	Average

5 875.35 MHz

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
23 500.22	H	48.9	-0.3	48.6	-----	74.0	-----	25.4	-----	Peak
23 500.22	H	38.1	-0.3	-----	37.8	-----	54.0	-----	16.2	Average
23 501.98	V	49.9	-0.3	49.6	-----	74.0	-----	24.4	-----	Peak
23 501.98	V	40.9	-0.3	-----	40.6	-----	54.0	-----	13.4	Average

**Remarks**

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)  
 Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

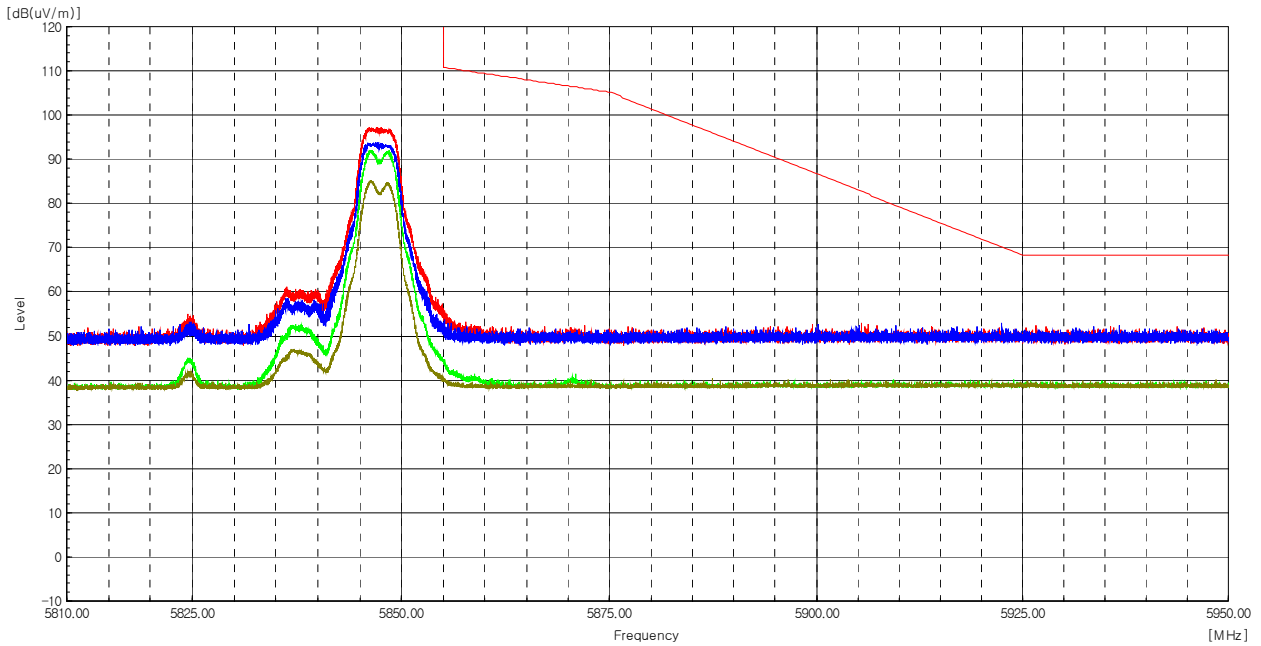




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Report No.:  
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Worst Case Mode :	Digital Modulation_4MHz BW
Distance of Measurements :	3 Meters
Operating Frequency :	5 847.35 MHz



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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The emissions above 1 GHz were 20 dB lower than the limit.

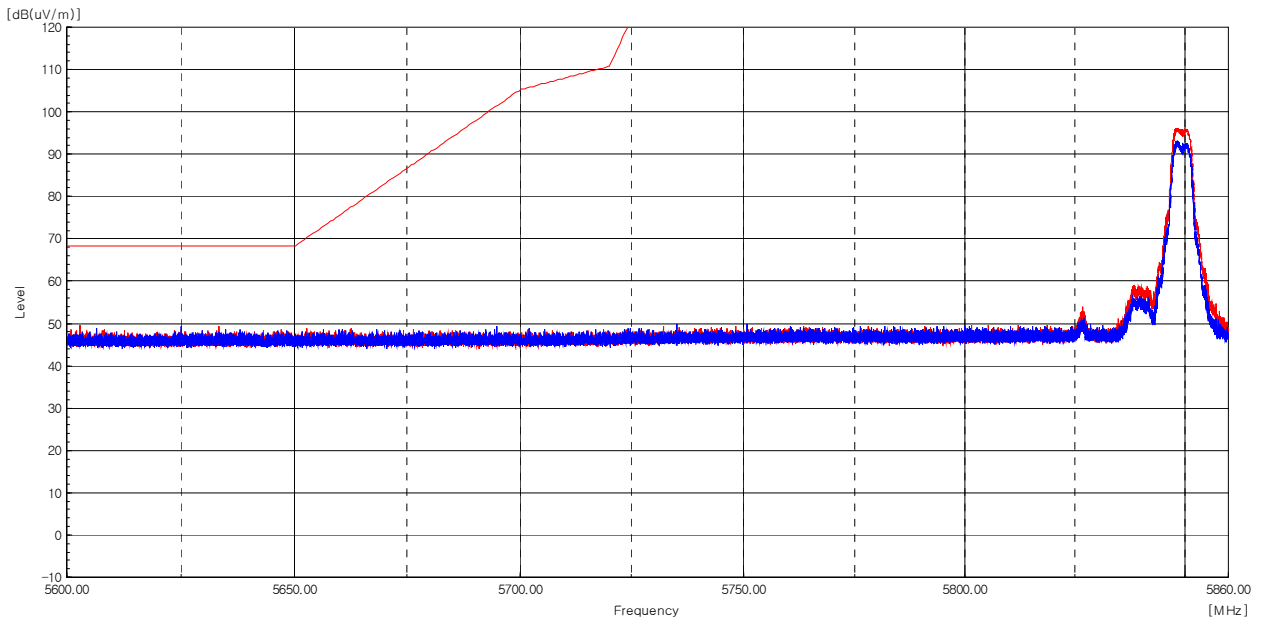
### Radiated Restricted Band Edge Plot



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Worst Case Mode :	Digital Modulation_4MHz BW
Distance of Measurements :	3 Meters
Operating Frequency :	5 849.35 MHz



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
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The emissions above 1 GHz were 20 dB lower than the limit.

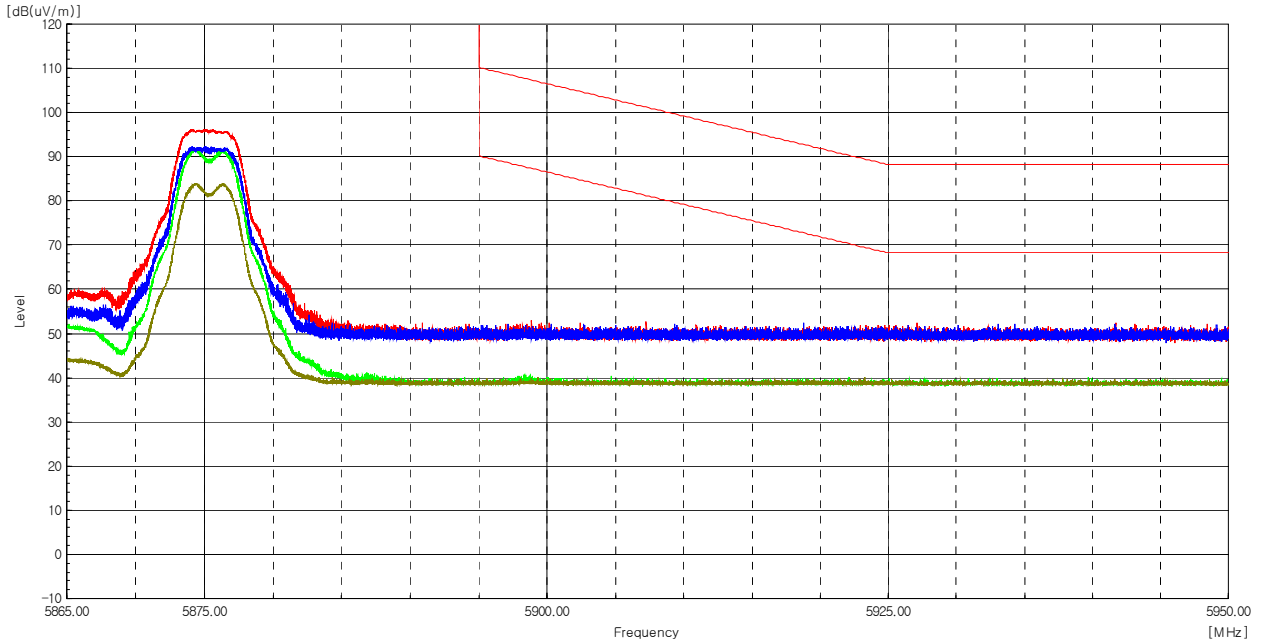
### Radiated Restricted Band Edge Plot



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Worst Case Mode :	Digital Modulation_4MHz BW
Distance of Measurements :	3 Meters
Operating Frequency :	5 875.35 MHz



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	Note
-----------------	-----	----------------	---------------	---------------------	---------------------	---------------------	---------------------	----------------	----------------	------

The emissions above 1 GHz were 20 dB lower than the limit.

### Radiated Restricted Band Edge Plot



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## 4.7 AC Conducted Emissions

### Test Location

Shielded Room

### Frequency Range of Measurement

150 kHz to 30 MHz

### Instrument Settings

IF Band Width: 9 kHz

### Test Procedures

ANSI C63.10-2013 - Section 6.2  
RSS-Gen - Section 8.8

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

### Limit

- 15.207(a)

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average**
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

\* The level decreases linearly with the logarithm of the frequency.

\*\* A linear average detector is required.

### Test Results

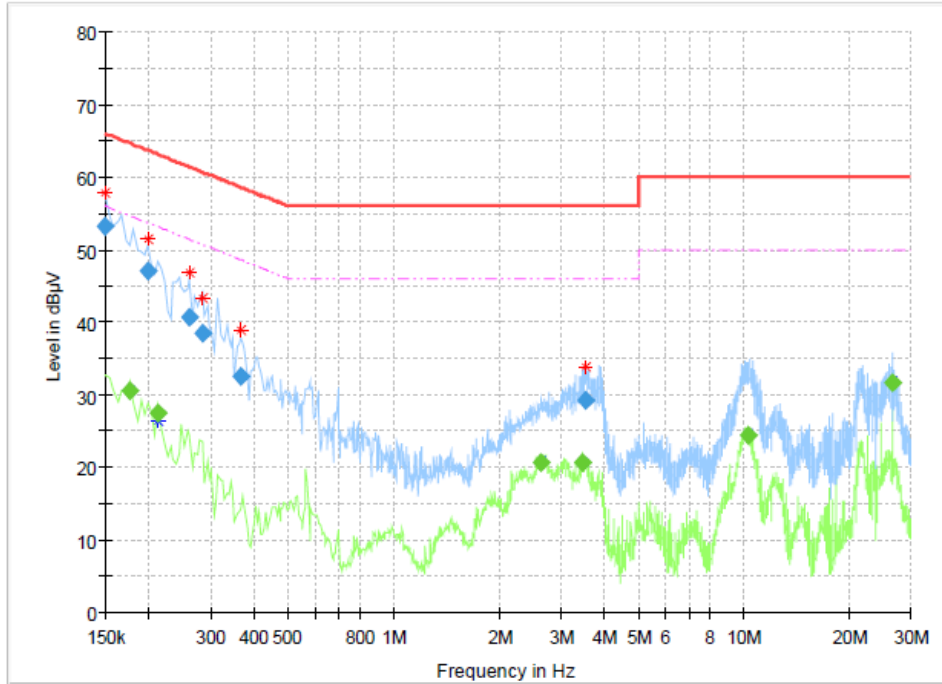
The requirements are:

Complies

**Test Data**

[LINE]

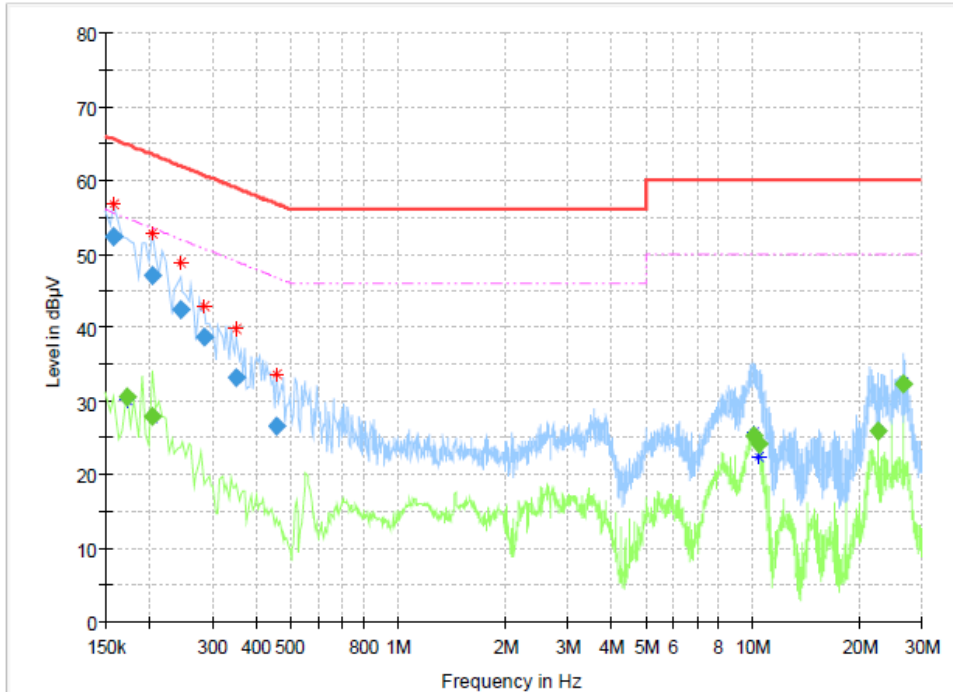
Full Spectrum



**Final Result**

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	53.24	---	66.00	12.76	15000.0	9.000	L1	ON	9.7
0.177000	---	30.54	54.63	24.08	15000.0	9.000	L1	ON	10.0
0.199500	46.97	---	63.63	16.66	15000.0	9.000	L1	ON	9.8
0.213000	---	27.46	53.09	25.62	15000.0	9.000	L1	ON	9.8
0.262500	40.63	---	61.35	20.72	15000.0	9.000	L1	ON	9.7
0.285000	38.42	---	60.67	22.25	15000.0	9.000	L1	ON	9.7
0.366000	32.46	---	58.59	26.13	15000.0	9.000	L1	ON	9.8
2.634000	---	20.68	46.00	25.32	15000.0	9.000	L1	ON	9.6
3.448500	---	20.76	46.00	25.24	15000.0	9.000	L1	ON	9.6
3.543000	29.16	---	56.00	26.84	15000.0	9.000	L1	ON	9.6
10.324500	---	24.48	50.00	25.52	15000.0	9.000	L1	ON	9.8
26.623500	---	31.63	50.00	18.37	15000.0	9.000	L1	ON	9.9

[NEUTRAL]  
Full Spectrum



**Final Result**

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	52.30	---	65.52	13.21	15000.0	9.000	N	ON	9.8
0.172500	---	30.52	54.84	24.32	15000.0	9.000	N	ON	9.9
0.204000	---	27.87	53.45	25.57	15000.0	9.000	N	ON	9.8
0.204000	47.14	---	63.45	16.31	15000.0	9.000	N	ON	9.8
0.244500	42.45	---	61.94	19.49	15000.0	9.000	N	ON	9.6
0.285000	38.79	---	60.67	21.88	15000.0	9.000	N	ON	9.7
0.352500	33.16	---	58.90	25.74	15000.0	9.000	N	ON	9.8
0.456000	26.66	---	56.77	30.11	15000.0	9.000	N	ON	9.8
10.036500	---	25.38	50.00	24.62	15000.0	9.000	N	ON	9.9
10.468500	---	24.11	50.00	25.89	15000.0	9.000	N	ON	9.9
22.528500	---	25.83	50.00	24.17	15000.0	9.000	N	ON	10.0
26.623500	---	32.28	50.00	17.72	15000.0	9.000	N	ON	10.0



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## APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY49101016	2023-09-25	2024-09-25
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2024-03-21	2025-03-21
3	DC Power Supply	HP	E3632A	KR94907541	2023-09-25	2024-09-25
4	EMI TEST RECEIVER	Rohde & Schwarz	ESW44	102039	2023-05-03	2024-05-03
5	BILOG ANTENNA	TESEQ	CBL6111D	60654	2023-08-21	2025-08-21
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2022-04-15	2024-04-15
7	6dB Attenuator	PASTERNAK	PE7AP006-06	L20210504000023	2023-08-04	2024-08-04
8	6dB Attenuator	NONE	6dB	190557	2023-09-25	2024-09-25
9	AMPLIFIER	SONOMA INSTRUMENT	310N	411011	2023-08-04	2024-08-04
10	Spectrum Analyzer	Rohde & Schwarz	FSV40	101574	2024-01-15	2025-01-15
11	PRE AMPLIFIER	HP	8449B	3008A00620	2023-04-21	2024-04-21
12	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078895	2023-04-13	2024-04-13
13	HORN ANTENNA	SCHWARZBECK	BBHA9170	1153	2023-10-19	2024-10-19
14	LOW NOISE AMPLIFIER	TESTEK	TK-PA1840H	210124-L	2023-10-23	2024-10-23
15	Band Reject Filter	Micro Tronics	BRM50716	G184	2023-12-01	2024-12-01
16	EMI Test Receiver	Rohde & Schwarz	ESR3	102826	2023-05-03	2024-05-03
17	LISN	Rohde & Schwarz	ENV216	102698	2023-05-03	2024-05-03
18	Temp&Humi Chamber	ESPEC CORP.	SH-242	93012243	2024-01-11	2025-01-11

	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1512S151	2024-03-29
2	RF Cable (Line Conducted)	Canare Corporation	L-5D2W	N/A	2024-03-05
3	RF Cable (9 kHz - 30 MHz Radiated)	Canare Corporation	L-5D2W	N/A	2024-03-05
4	RF Cable (30 MHz - 1 GHz Radiated)	Canare Corporation	L-5D2W	N/A	2024-03-05
5	RF Cable (9 kHz - 1 GHz Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2024-03-05
6	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	2008S246	2023-06-28
7	RF Cable (1 GHz - 18 GHz Radiated)	Junkosha Inc.	MWX221	J0970749	2023-06-28
8	RF Cable (1 GHz - 18 GHz Radiated)	Sensorview Co., LTD	13A26	TPC2204060007	2023-06-28
9	RF Cable (18 GHz - 40 GHz Radiated)	Sensorview Co., LTD	9S40	TPC2204060009	2023-06-28
10	RF Cable (18 GHz - 40 GHz Radiated)	Sensorview Co., LTD	9A40	TP210713-001	2023-06-28

-END-