



# FCC CO-LOCATION RADIO TEST REPORT

**FCC ID** : 2AMK2-RM03AA  
**Equipment** : Paper Tablet  
**Brand Name** : reMarkable  
**Model Name** : 2AMK2-RM03AA  
**Applicant** : reMarkable AS  
Fridtjof Nansens vei 12, 0369 Oslo, Norway  
**Manufacturer** : reMarkable AS  
Fridtjof Nansens vei 12, 0369 Oslo, Norway  
**Standard** : FCC Part 15 Subpart C §15.247  
FCC Part 15 Subpart E §15.407

The product was received on Apr. 15, 2025 and testing was performed from Apr. 22, 2025 to May 26, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Louis Wu

**Sportun International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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## History of this test report



## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(d) 15.407(b)	Unwanted Emissions	Pass	-
3.2	15.203	Antenna Requirement	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 section "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: Keven Cheng**

**Report Producer: Josie Hsu**



## 1 General Description

### 1.1 Product Feature of Equipment Under Test

Product Feature		
<b>General Specs</b> Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and NFC(WPT).		
<b>Antenna Type</b> WLAN: Monopole Antenna		
Sample1	Main source	
Sample2	2nd source – FPC, PCB	
Sample3	2nd source – DRAM	
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	0.4
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	2.60

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

#### <Sample List>

Main Board	Main source	Vendor	Avary
		Model Number	SB0SDV1BV0G
Antenna SUB Board	2nd source	Vendor	PI
		Model Number	SB0SDV1B00G
Antenna SUB Board	Main source	Vendor	Avary
		Model Number	SB0SDV2BV0D
PB FPC	2nd source	Vendor	ASKPCB
		Model Number	SB0SDV2B00D
PB FPC	Main source	Vendor	AKM
		Model Number	MESDV14201A
USB FPC	2nd source	Vendor	ICHIA
		Model Number	MESDV14211A
Hall Sensor FPC	Main source	Vendor	AKM
		Model Number	MESDV14205A
Hall Sensor FPC	2nd source	Vendor	ICHIA
		Model Number	MESDV14215A
DRAM	Main source	Vendor	Micron
		Model Number	MT53E1G16D1ZW-046 WT:C
DRAM	2nd source	Vendor	JSC
		Model Number	JSL4BAG167ZAMF-05A

### 1.2 Modification of EUT

No modifications are made to the EUT during all test items.



## 1.3 Testing Location

<b>Test Site</b>	Sportun International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sportun Site No.</b> 03CH16-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

## 1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

### 2.1 Carrier Frequency and Channel

2400-2483.5 MHz		5470 ~ 5725 MHz	
Bluetooth-LE		802.11ac VHT80	
Channel	Freq. (MHz)	Channel	Freq. (MHz)
39	2480	106	5530

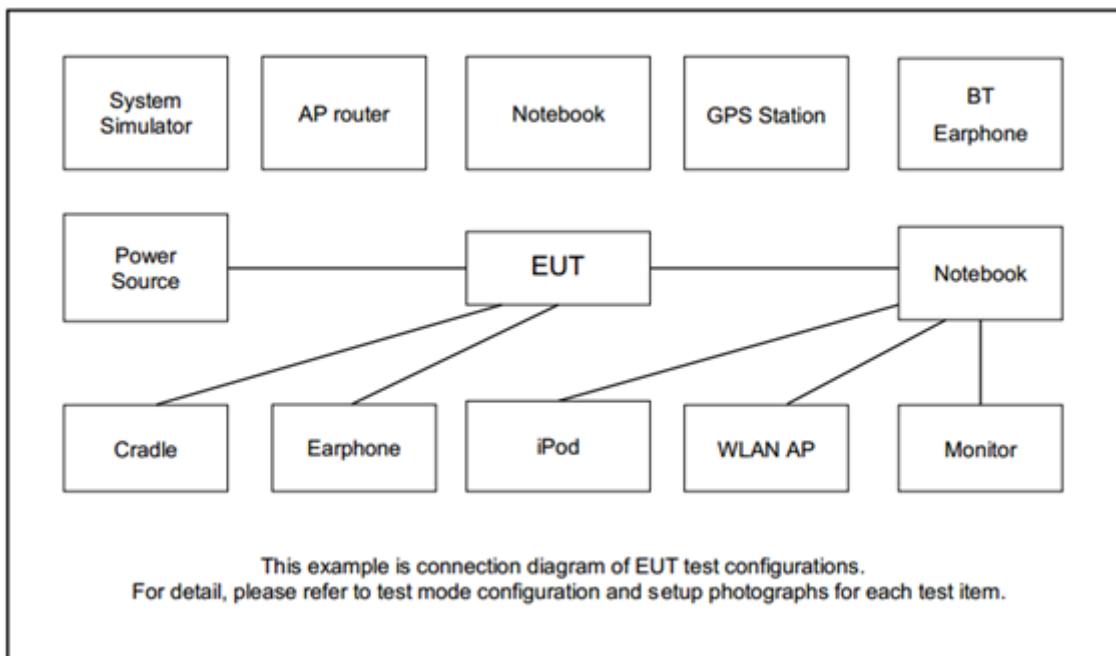
### 2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

<Co-Location>

Test Mode	Modulation	Data Rate
Mode 1	Bluetooth-LE Tx CH39_2480 MHz_1Mbps + WLAN 5GHz 802.11ac VHT80	1Mbps + MCS0

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	Google	G9BR1	N/A	N/A	N/A

## 2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term Version 4.89” was installed in EUT which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



### 3 Test Result

#### 3.1 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

##### 3.1.1 Limit of Unwanted Emissions

(1) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

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

**Note:** The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(2) KDB789033 D02 v02r01 G2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

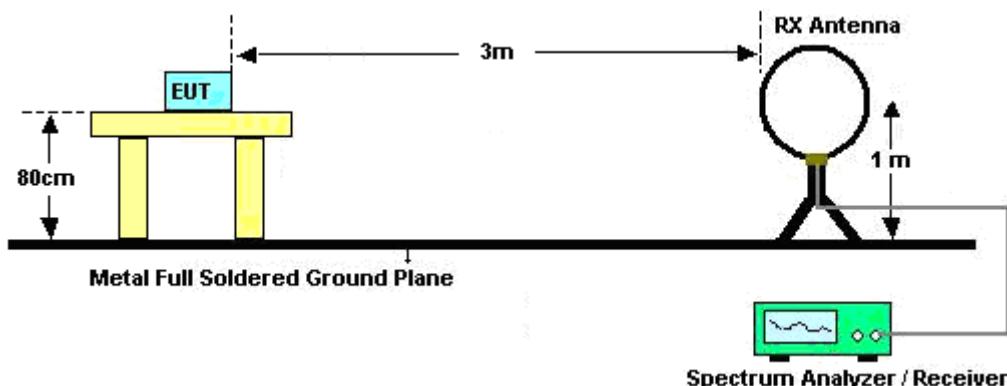


### 3.1.3 Test Procedures

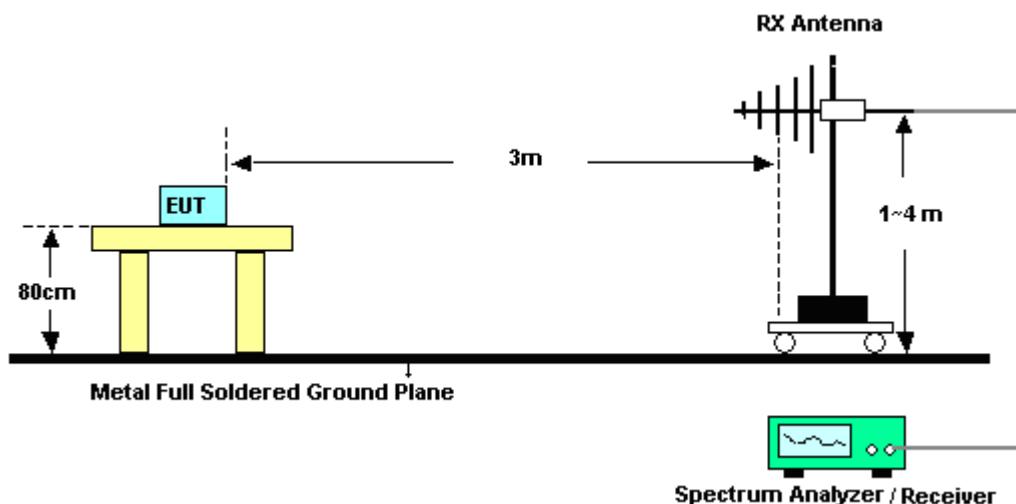
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.

### 3.1.4 Test Setup

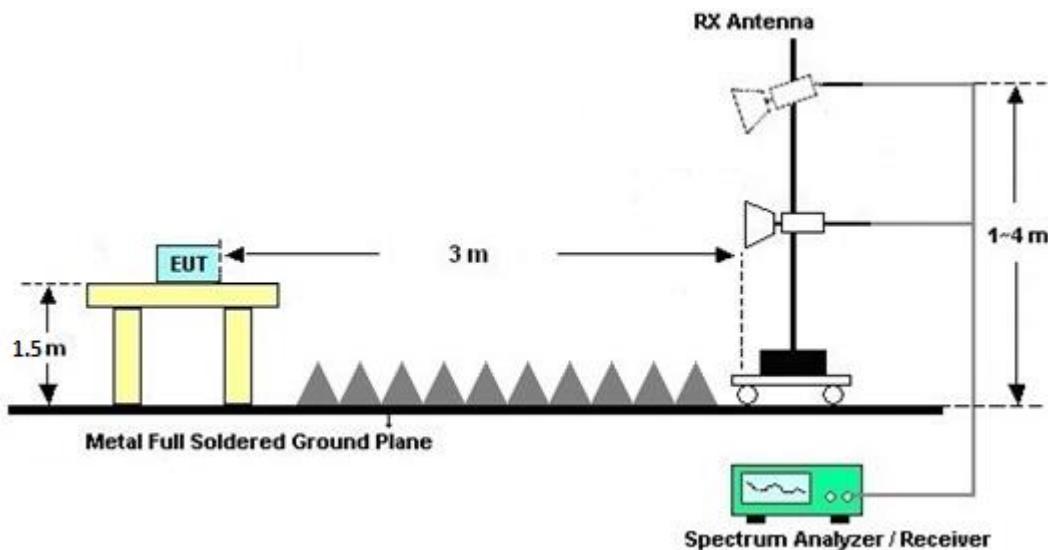
For radiated emissions below 30MHz



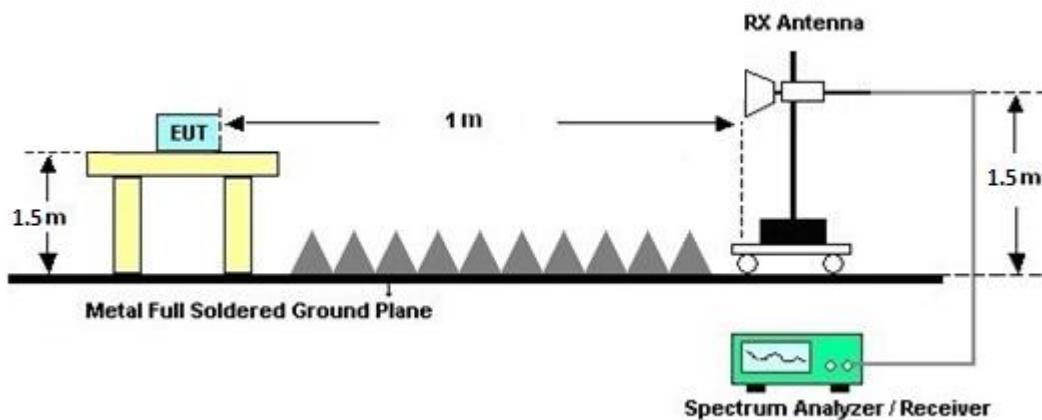
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 3.1.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### 3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A

### 3.1.7 Duty Cycle

Please refer to Appendix B.

### 3.1.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A.



## 3.2 Antenna Requirements

### 3.2.1 Standard Applicable

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, 15.221, or § 15.236. 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.

### 3.2.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	Apr. 22, 2025~May 26, 2025	Aug. 28, 2025	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 22, 2024	Apr. 22, 2025~May 26, 2025	Nov. 21, 2025	Radiation (03CH16-HY)
BT Base Station	Rohde & Schwarz	CBT	101135	BT 3.0	Oct. 10, 2024	Apr. 22, 2025~May 26, 2025	Oct. 09, 2025	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 19, 2024	Apr. 22, 2025~May 26, 2025	Jul. 18, 2025	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 05, 2024	Apr. 22, 2025~May 26, 2025	Oct. 04, 2025	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 27, 2025	Apr. 22, 2025~May 26, 2025	Mar. 26, 2026	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 02, 2024	Apr. 22, 2025~May 26, 2025	Jul. 01, 2025	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 05, 2024	Apr. 22, 2025~May 26, 2025	Dec. 04, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 24, 2024	Apr. 22, 2025~May 26, 2025	Dec. 23, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Apr. 22, 2025~May 26, 2025	May 26, 2025	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Apr. 22, 2025~May 26, 2025	Dec. 01, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 14, 2025	Apr. 22, 2025~May 26, 2025	Jan. 13, 2026	Radiation (03CH16-HY)
Filter	Wainwright	WPKX12-2700-3000-18000-60ST	SN3	3GHz High Pass Filter	Jun. 28, 2024	Apr. 22, 2025~May 26, 2025	Jun. 27, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WPKX8-5872.5-6750-18000-40ST	SN27	6.75GHz High Pass Filter	Dec. 26, 2024	Apr. 22, 2025~May 26, 2025	Dec. 25, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519226/2, 804014/2, 804026/2	9KHz ~ 40GHz	Oct. 29, 2024	Apr. 22, 2025~May 26, 2025	Oct. 28, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4,802434/4	30MHz~18GHz	Aug. 07, 2024	Apr. 22, 2025~May 26, 2025	Aug. 06, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804012/2	18-40GHz	Dec. 31, 2024	Apr. 22, 2025~May 26, 2025	Dec. 30, 2025	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Apr. 22, 2025~May 26, 2025	N/A	Radiation (03CH16-HY)



## 5 Measurement Uncertainty

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U <sub>c</sub> (y))	6.5 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U <sub>c</sub> (y))	4.9 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U <sub>c</sub> (y))	5.1 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U <sub>c</sub> (y))1	5.3 dB
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## Appendix A. Radiated Spurious Emission

Test Engineer :	Jerry Lan 、 Gary Guo and Steven Wu	Temperature :	20~26°C
		Relative Humidity :	40~65%

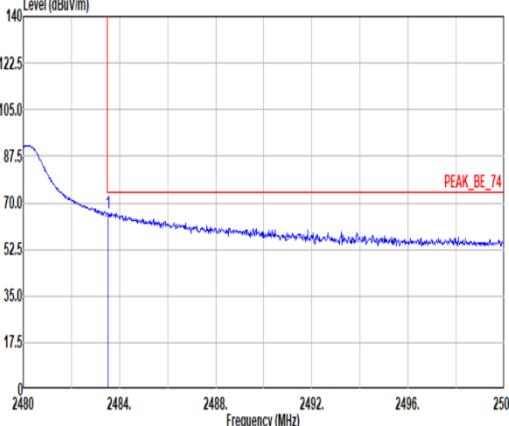
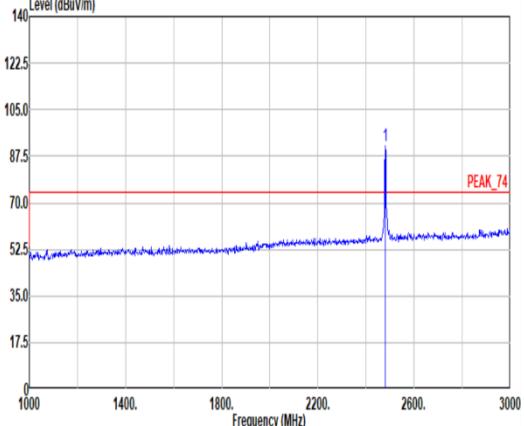
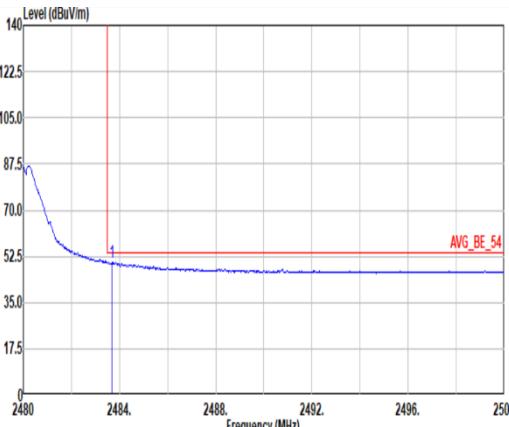
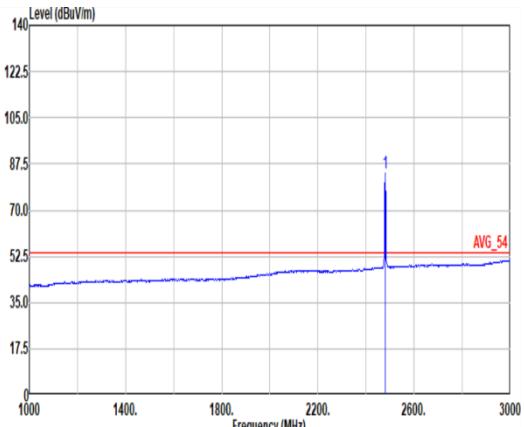
### A1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 27	2400-2483.5	1	Bluetooth-LE GSFK	39	2480	1Mbps	-	-
	5.47-5.725	1	802.11ac VHT80	106	5530	MCS0	-	-

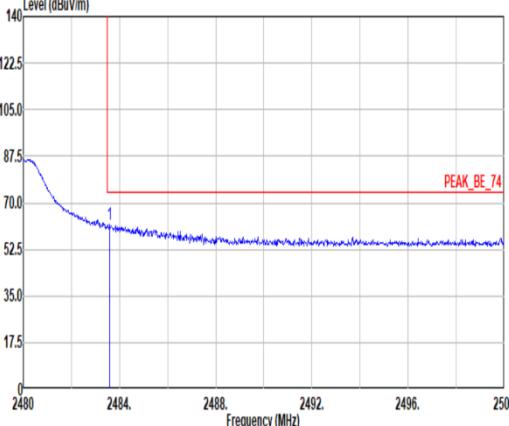
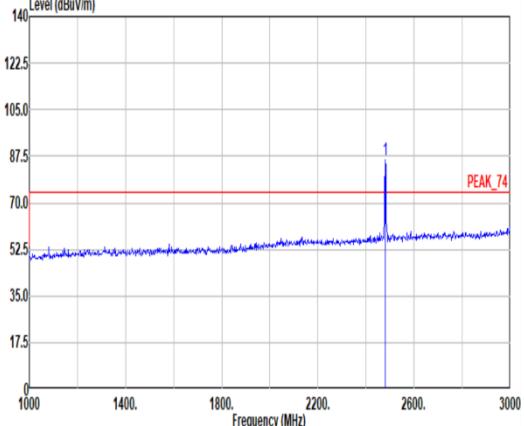
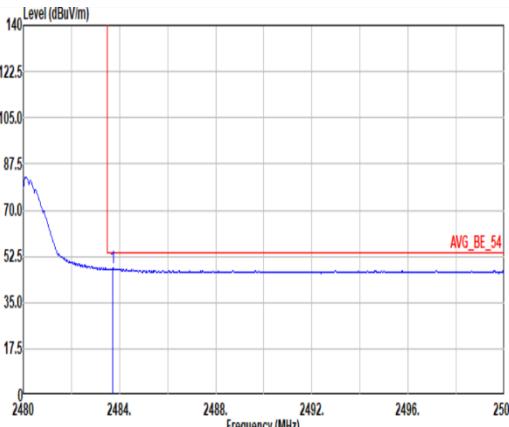
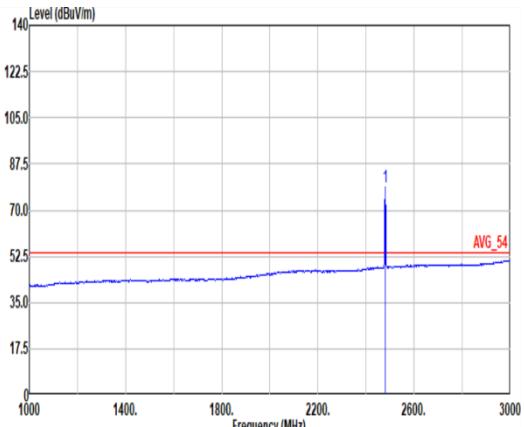
### A2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
27	Bluetooth-LE GSFK + 802.11ac VHT80	39	2483.68	50.30	54.00	-3.70	H	Avg.	Pass	-	Band Edge
		106	4960.00	45.06	54.00	-8.94	H	Avg.	Pass	-	Harmonic

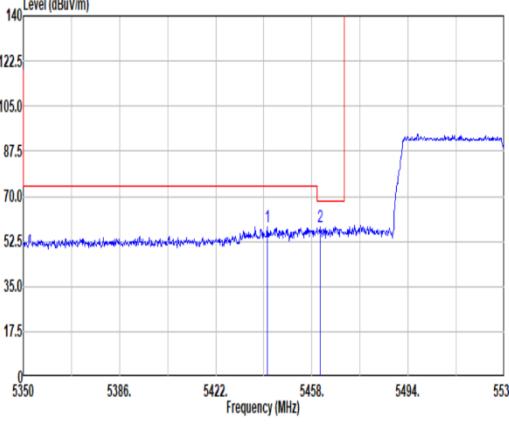
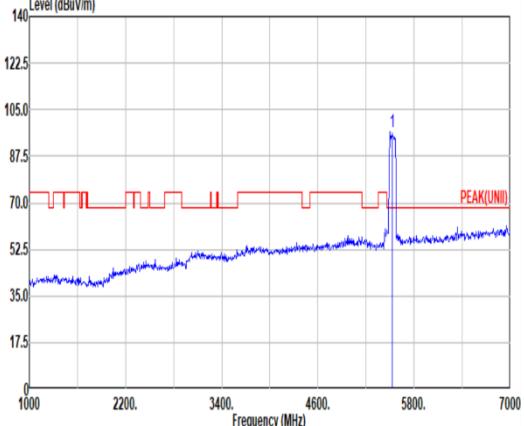
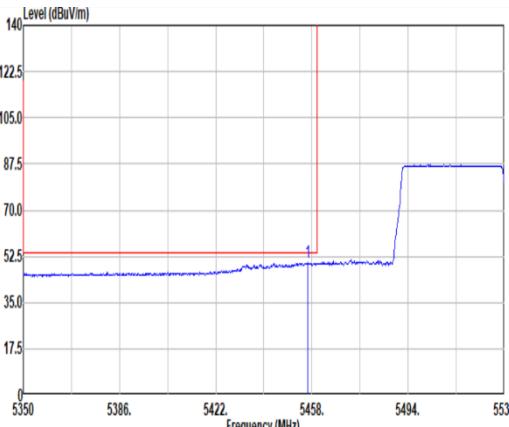
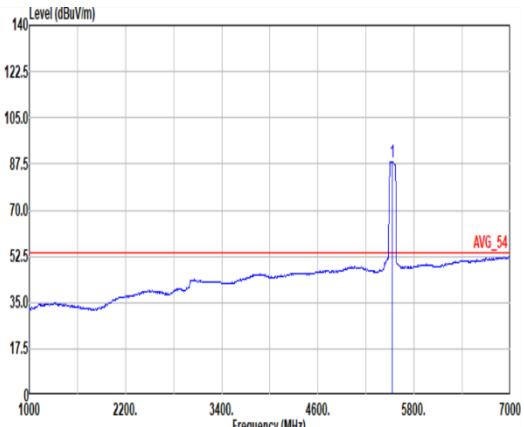


Mode	27																																																																																					
	Band Edge																																																																																					
	2400-2483.5_Bluetooth-LE GSFK_Ch39_2480MHz																																																																																					
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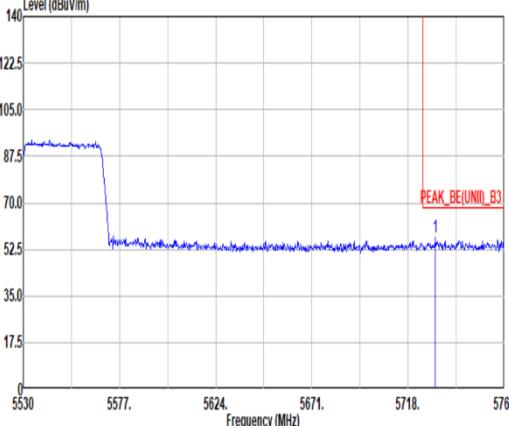


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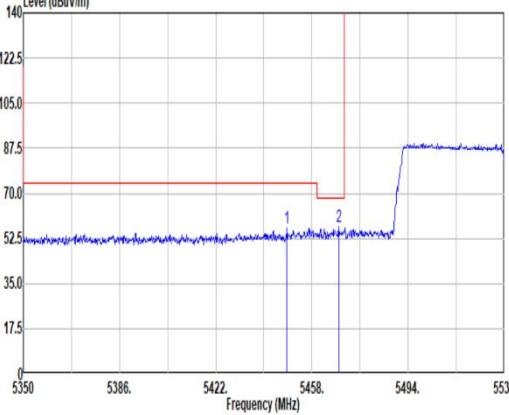
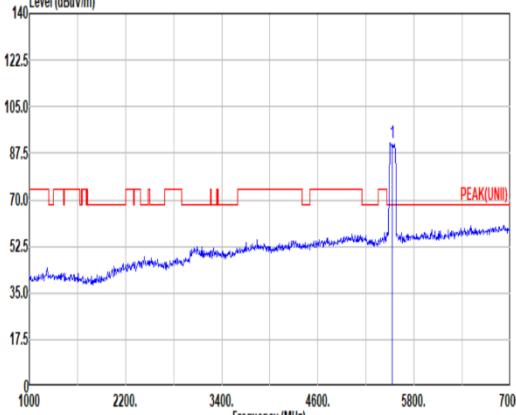
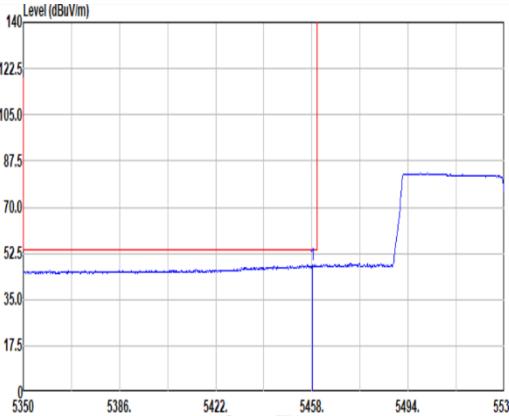
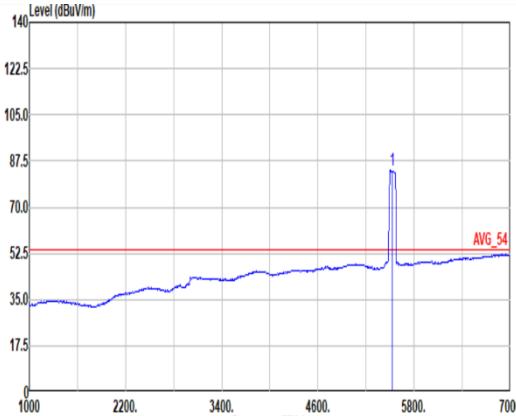


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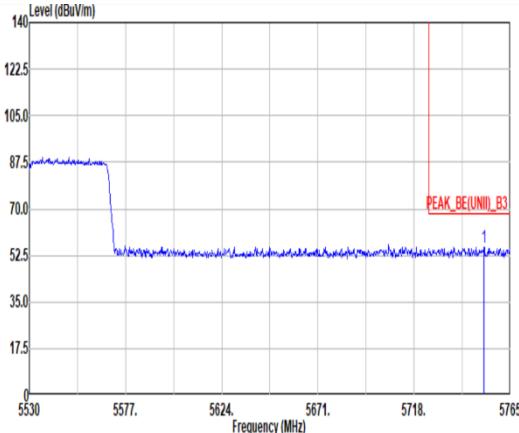


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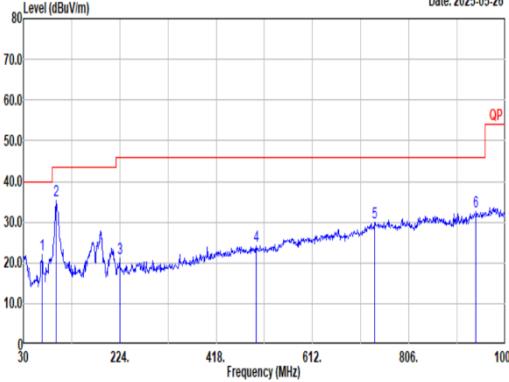
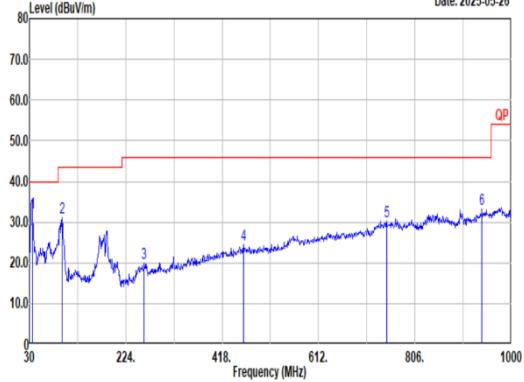


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## Appendix B. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 1Mbps	61.66	386	2.591	2.7KHz
5GHz 802.11ac VHT80	95.13	332	3.01	3.3KHz

