



FCC RADIO TEST REPORT

FCC ID : 2AXA8-RWB-2001
Equipment : Multifunctional IoT platform sensor device
Brand Name : Trackonomy
Model Name : RWB-2001
Marketing Name : RWB-2001
Applicant : Trackonomy Systems, Inc.
214 Devcon Dr. San Jose CA 95112
Manufacturer : Trackonomy Systems, Inc.
214 Devcon Dr. San Jose CA 95112
Standard : FCC Part 15 Subpart C §15.247

The product was received on Nov. 14, 2024 and testing was performed from Dec. 12, 2024 to Dec. 26, 2024. We, Sporton International (USA) Inc., 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 (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



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History of this test report

Report No.	Version	Description	Issue Date
FR241110003	01	Initial issue of report	Jan. 13, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	-
-	15.207	AC Conducted Emission	Not Required	-
3.6	15.203	Antenna Requirement	Pass	-

Note: The power source method of the EUT is to use DC power source, and there is no other AC power port, after assessing, AC Conduction Emission test is not required.

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/manufacture 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.



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth-LE		
Antenna Type Bluetooth: PCB Trace Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	1.87

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	Sporton Site No.
	TH01-CA, 03CH01-CA

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

FCC Designation No.: US1250

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
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

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

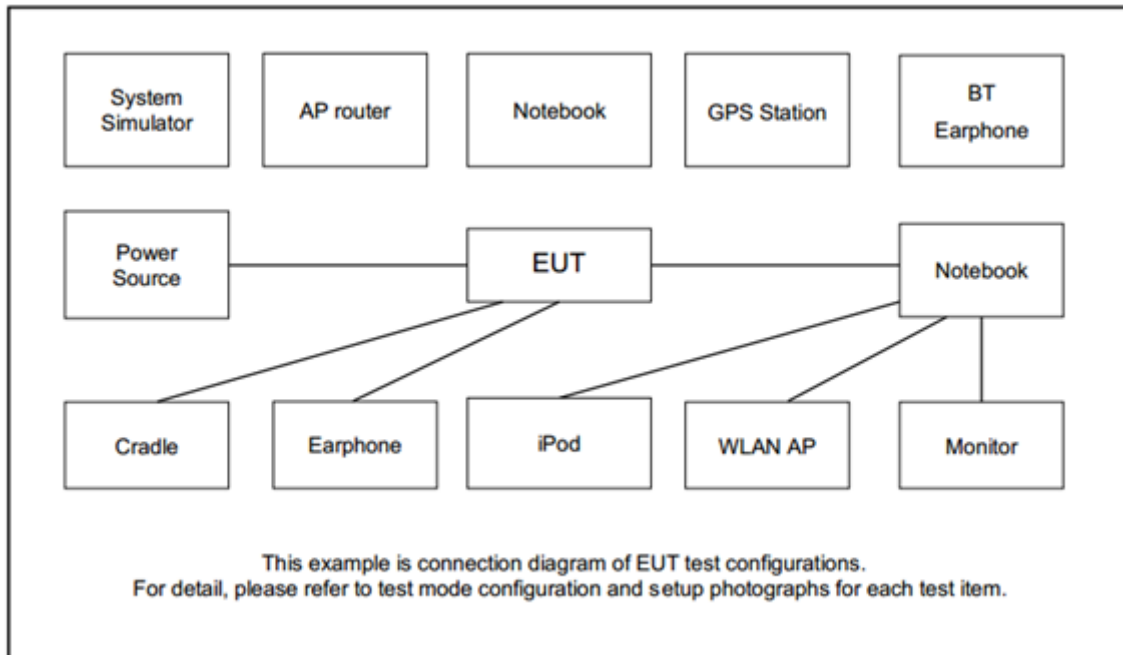
2.2 Test Mode

- 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.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
Conducted Test Cases	Bluetooth – LE / GFSK
	Mode 1: Bluetooth Tx CH00_2402 MHz_2Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_2Mbps
Radiated Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_2Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_2Mbps
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility "Trackonomy V9.0.1" was installed in Notebook 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.

2.5 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

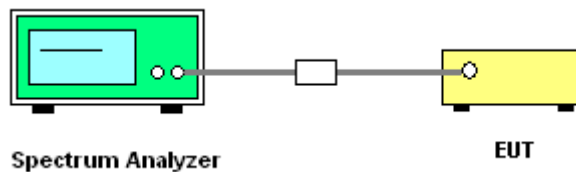
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator.
3. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

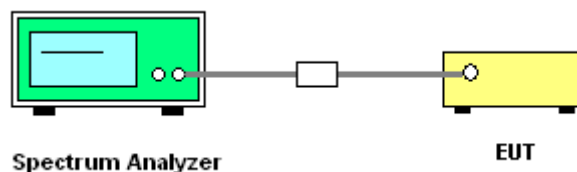
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

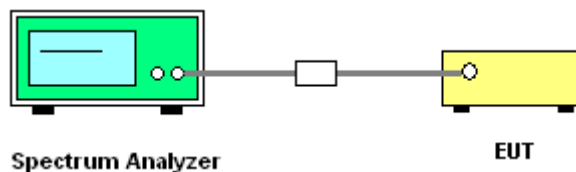
3.4.2 Measuring Instruments

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

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

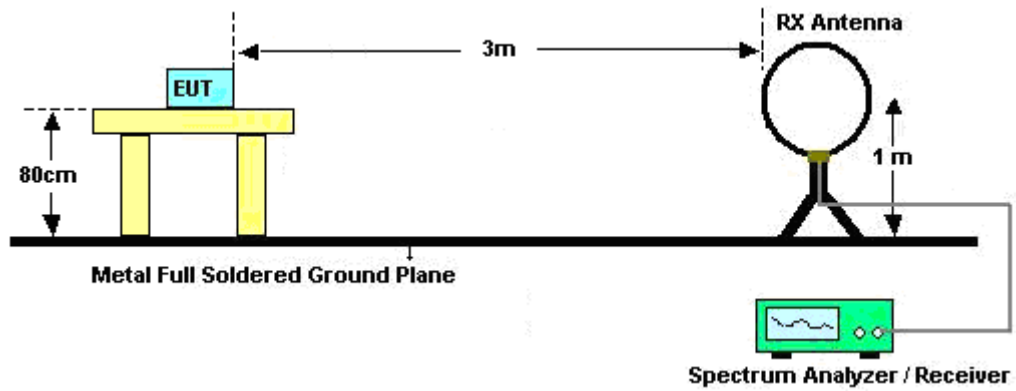
Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

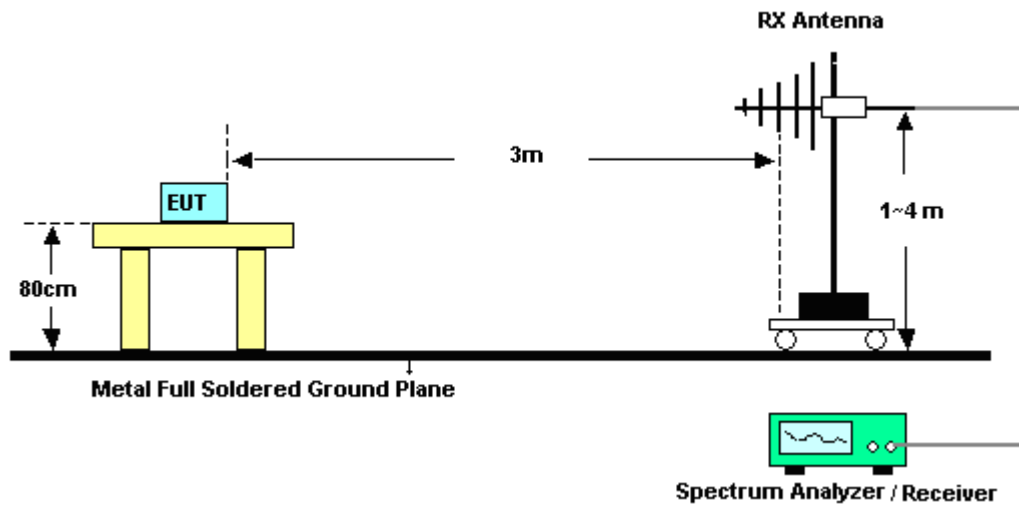
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level
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 “-”.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.For average measurement:
 - 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.

3.5.4 Test Setup

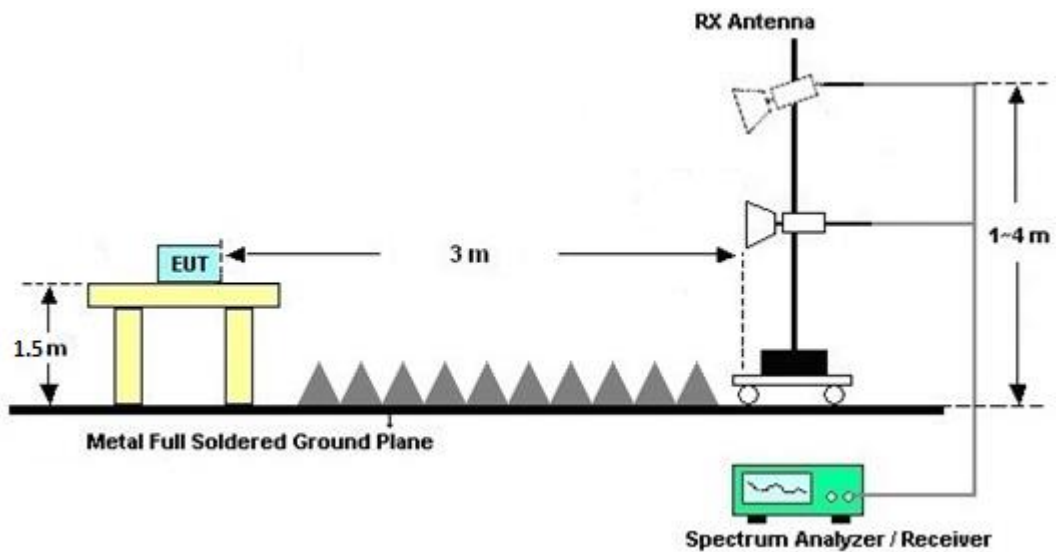
For radiated test below 30MHz



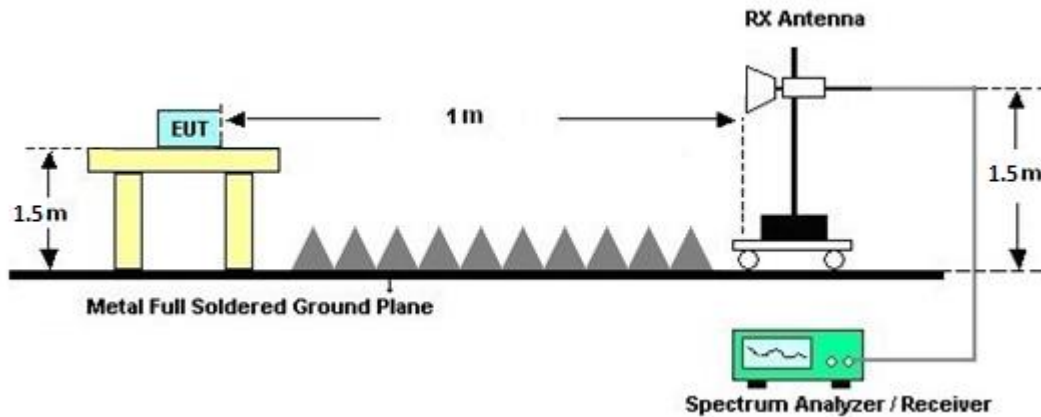
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is 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 comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix B and C.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 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
Hygrometer	Testo	608-H1	45141354	N/A	Aug. 14, 2024	Dec. 17, 2024~ Dec. 26, 2024	Aug. 13, 2025	Conducted (TH01-CA)
Power Sensor	DARE!!	RPR3006W	RPR8W-2301002	10MHz-8GHz	Feb. 22, 2024	Dec. 17, 2024~ Dec. 26, 2024	Feb. 21, 2025	Conducted (TH01-CA)
Spectrum analyzer	Rhodes & Schwarz	FSV40	101089	10Hz~40GHz	Apr. 24, 2024	Dec. 17, 2024~ Dec. 26, 2024	Apr. 23, 2025	Conducted (TH01-CA)
Switch Box	EM Electronics	EMSW26	1090304	N/A	Oct. 04, 2024	Dec. 17, 2024~ Dec. 26, 2024	Oct. 03, 2025	Conducted (TH01-CA)
Bilog Antenna	TESEQ	6111D	54683	30MHz~1GHz	Nov. 15, 2024	Dec. 12, 2024~ Dec. 20, 2024	Nov. 14, 2025	Radiation (03CH01-CA)
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	May 02, 2024	Dec. 12, 2024~ Dec. 20, 2024	May 01, 2025	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02113	1GHz~18GHz	Apr. 26, 2024	Dec. 12, 2024~ Dec. 20, 2024	Apr. 25, 2025	Radiation (03CH01-CA)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00841	18GHz~40GHz	Aug. 07, 2024	Dec. 12, 2024~ Dec. 20, 2024	Aug. 06, 2025	Radiation (03CH01-CA)
Amplifier	SONOMA	310N	372241	9kHz~1GHz	Apr. 24, 2024	Dec. 12, 2024~ Dec. 20, 2024	Apr. 23, 2025	Radiation (03CH01-CA)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN9	3GHz High Pass Filter	Jun. 04, 2024	Dec. 12, 2024~ Dec. 20, 2024	Jun. 03, 2025	Radiation (03CH01-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN1	1.2GHz Low Pass Filter	Jun. 04, 2024	Dec. 12, 2024~ Dec. 20, 2024	Jun. 03, 2025	Radiation (03CH01-CA)
Preamplifier	Keysight	83017A	MY53270321	1GHz~26.5GHz	Apr. 25, 2024	Dec. 12, 2024~ Dec. 20, 2024	Apr. 24, 2025	Radiation (03CH01-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900252	1GHz~18GHz	Apr. 25, 2024	Dec. 12, 2024~ Dec. 20, 2024	Apr. 24, 2025	Radiation (03CH01-CA)
Preamplifier	EMEC	EMC18G40G	060726	18G-40G	Apr. 04, 2024	Dec. 12, 2024~ Dec. 20, 2024	Apr. 03, 2025	Radiation (03CH01-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8015932/2, 8015762/2, 804938/2	N/A	Mar. 05, 2024	Dec. 12, 2024~ Dec. 20, 2024	Mar. 04, 2025	Radiation (03CH01-CA)
Hygrometer	TESEO	608-H1	45142559	N/A	Aug. 14, 2024	Dec. 12, 2024~ Dec. 20, 2024	Aug. 13, 2025	Radiation (03CH01-CA)
Controller	Chaintek	EM-1000	060881	Control Turn Table & Antenna Mast	N/A	Dec. 12, 2024~ Dec. 20, 2024	N/A	Radiation (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Dec. 12, 2024~ Dec. 20, 2024	N/A	Radiation (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Dec. 12, 2024~ Dec. 20, 2024	N/A	Radiation (03CH01-CA)
Test Software	Audix E3	E3 230621 Sporton US,V9	PK-002093	N/A	N/A	Dec. 12, 2024~ Dec. 20, 2024	N/A	Radiation (03CH01-CA)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Venkata Kondepudi	Temperature:	19.2~22	°C
Test Date:	2024/12/17~2024/12/26	Relative Humidity:	43.9~56.2	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	0	2402	2.055	1.172	0.50	Pass
BLE	2Mbps	1	19	2440	2.070	1.174	0.50	Pass
BLE	2Mbps	1	39	2480	2.064	1.171	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	2.67	30.00	1.87	4.54	36.00	Pass
BLE	2Mbps	1	19	2440	-1.53	30.00	1.87	0.34	36.00	Pass
BLE	2Mbps	1	39	2480	2.62	30.00	1.87	4.49	36.00	Pass

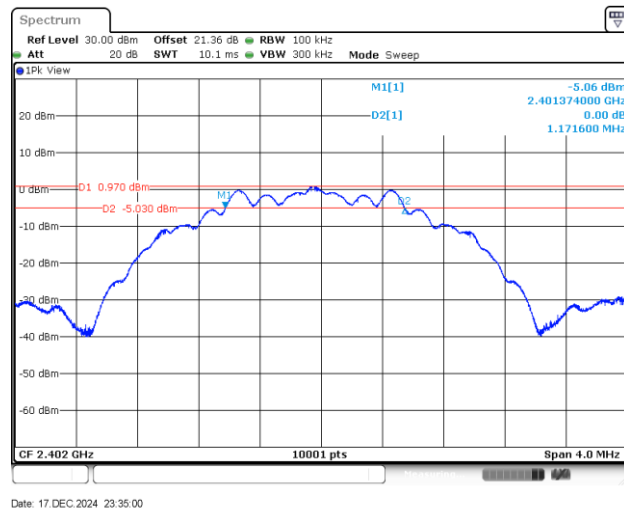
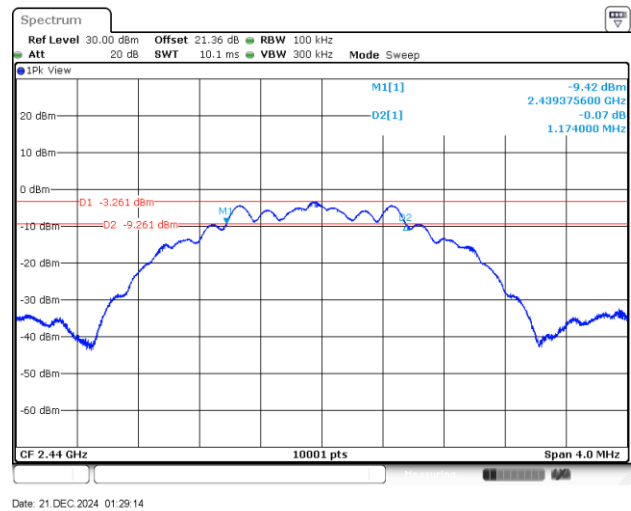
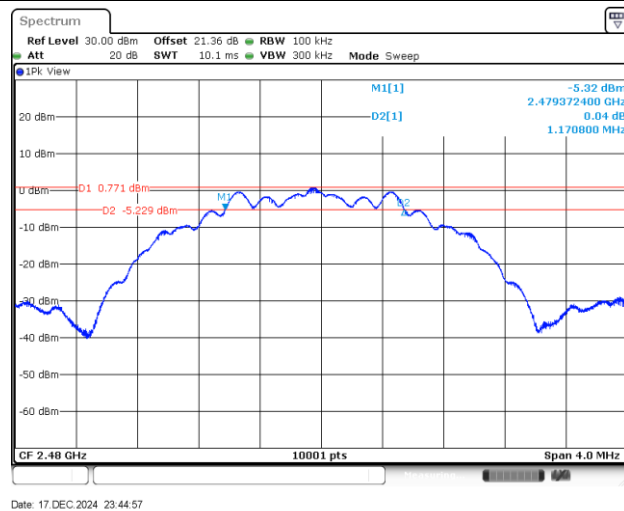
TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	0.93	-13.82	1.87	8.00	Pass
BLE	2Mbps	1	19	2440	-3.29	-18.13	1.87	8.00	Pass
BLE	2Mbps	1	39	2480	0.87	-13.90	1.87	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

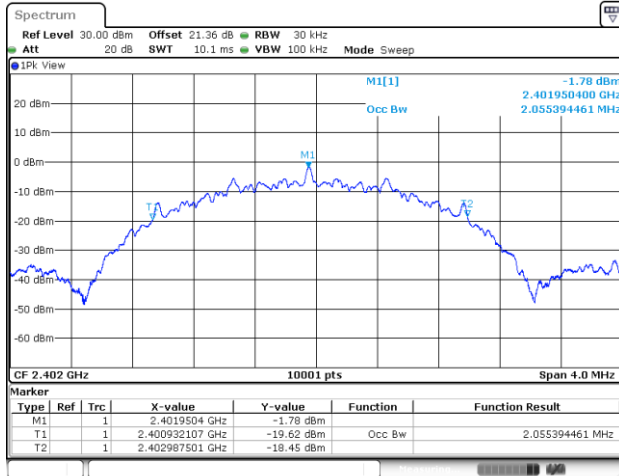
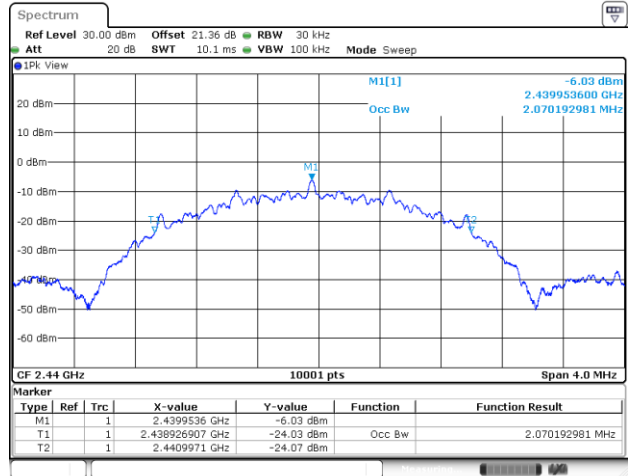
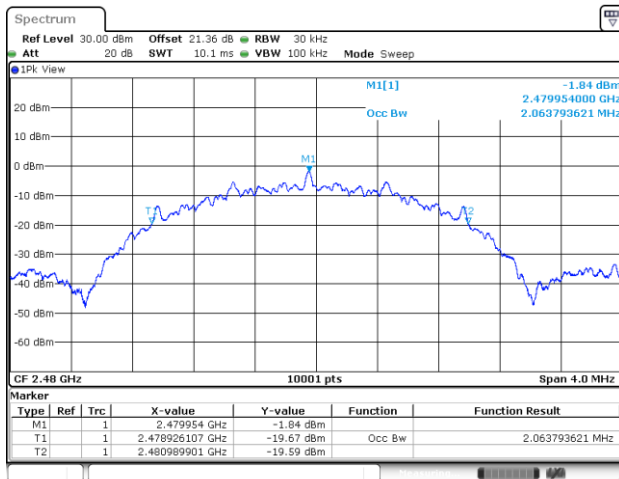
**6dB Bandwidth**

<2Mbps>

6 dB Bandwidth Plot on Channel 00**6 dB Bandwidth Plot on Channel 19****6 dB Bandwidth Plot on Channel 39**

**99% Occupied Bandwidth**

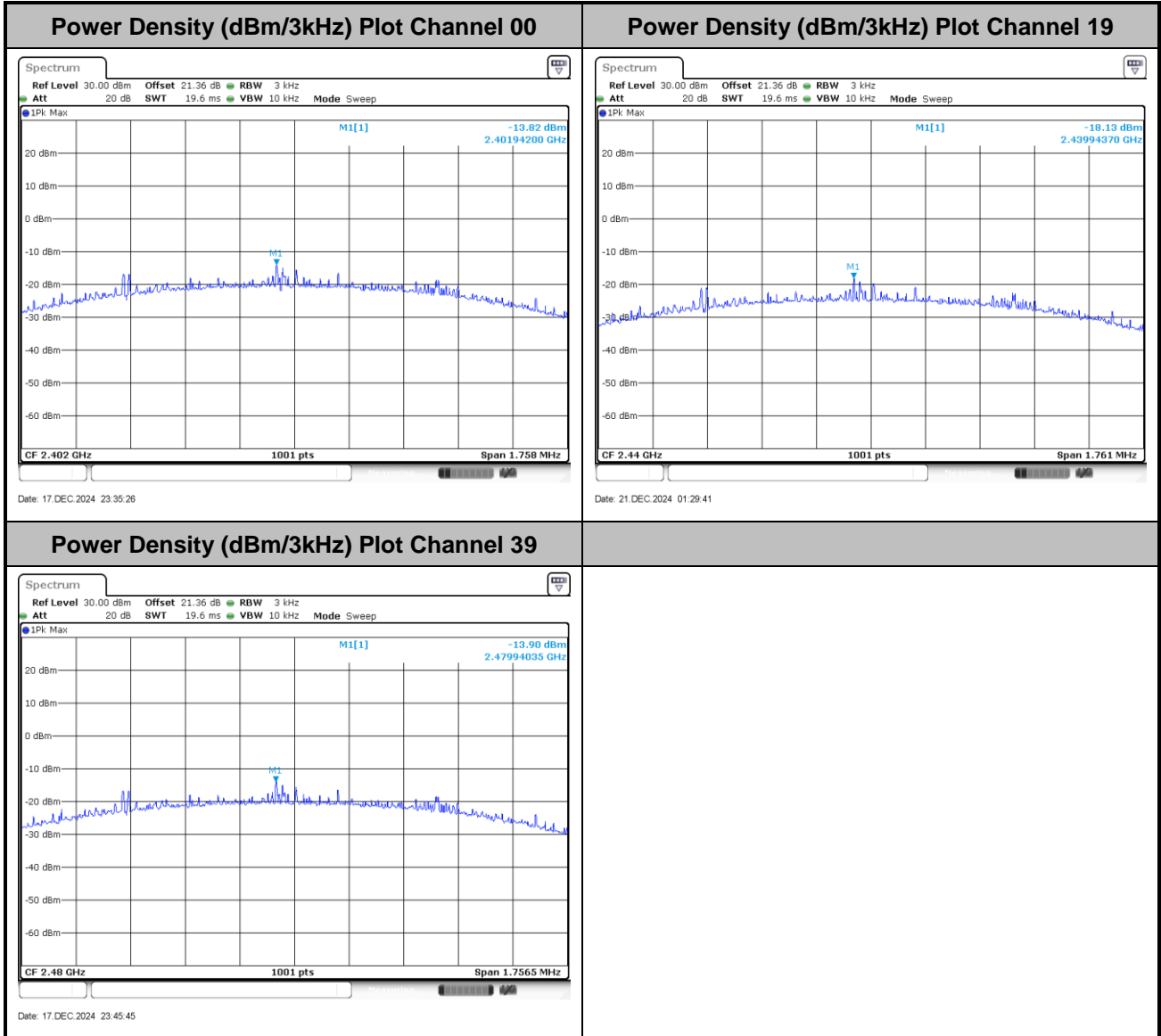
<2Mbps>

99% Occupied Bandwidth Plot on Channel 00**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**



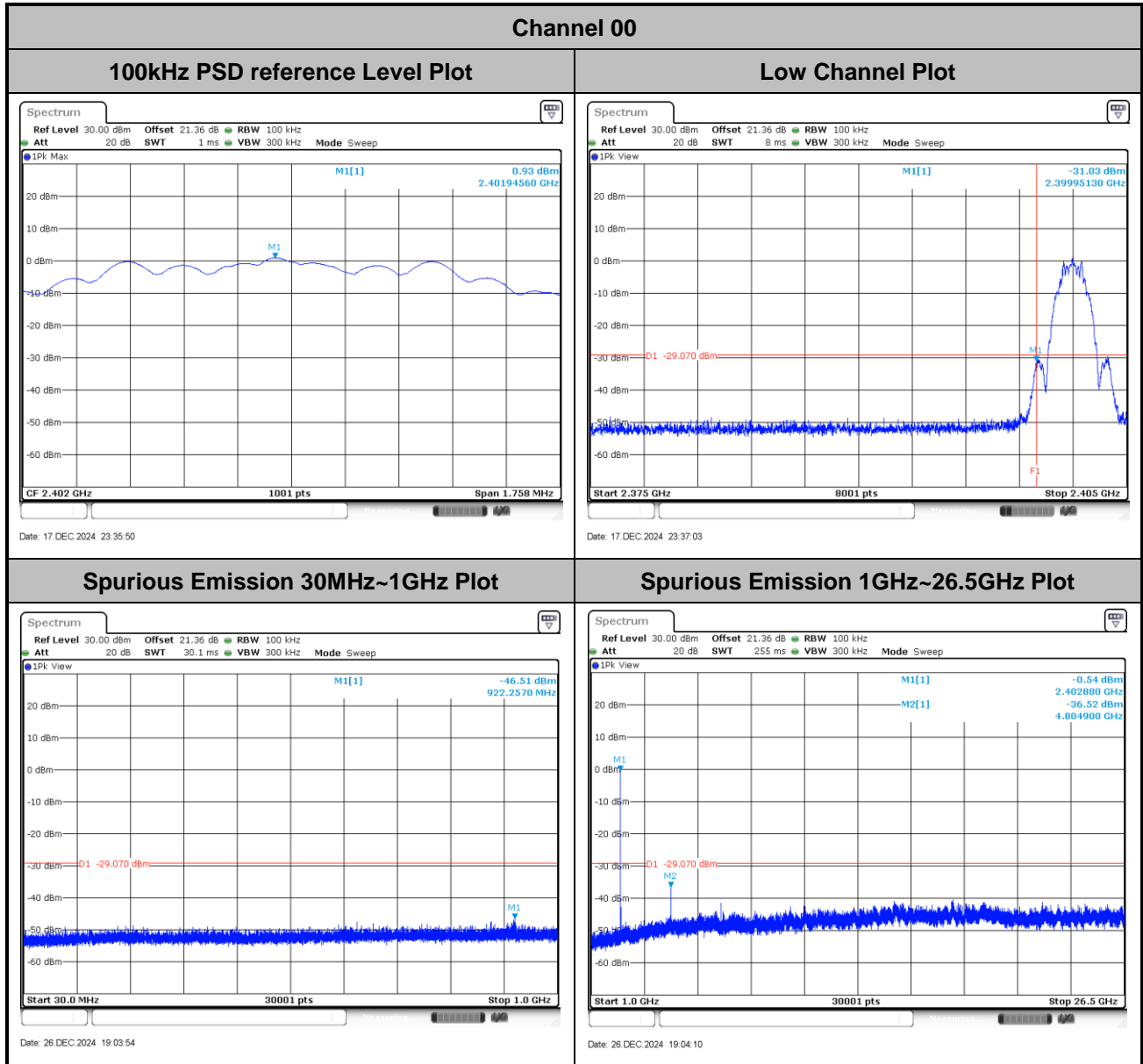
Power Spectral Density (dBm/3kHz)

<2Mbps>



**Band Edge and Conducted Spurious Emission**

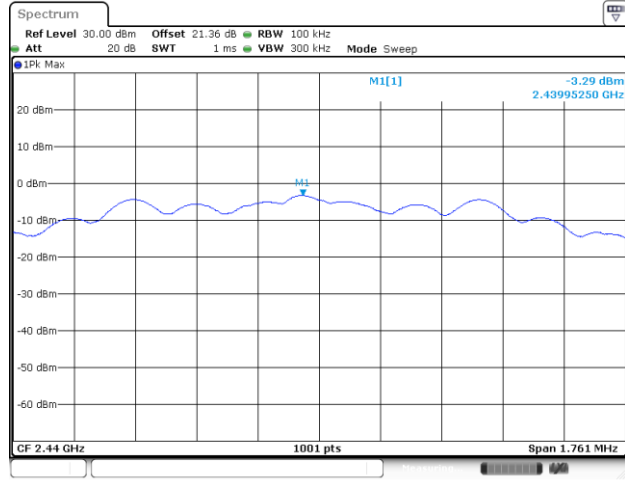
<2Mbps>





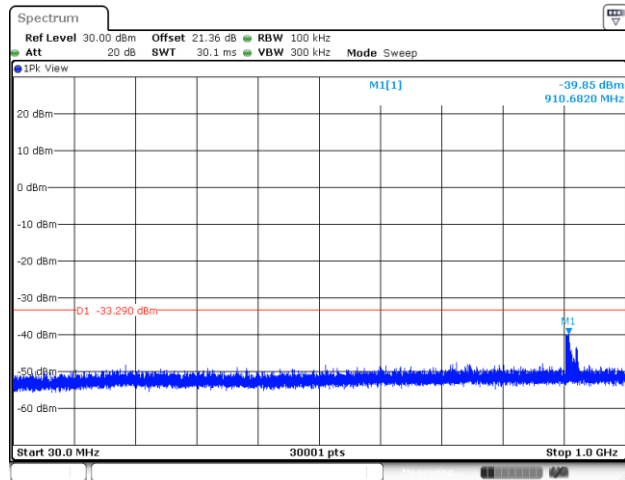
Channel 19

100kHz PSD reference Level Plot

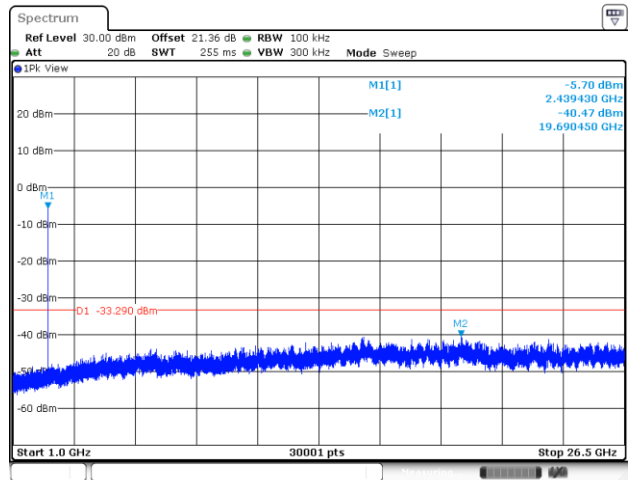


Mid Channel Plot

Spurious Emission 30MHz~1GHz Plot



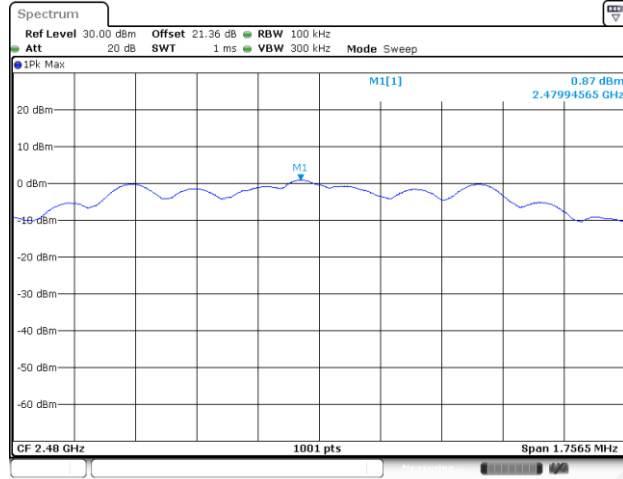
Spurious Emission 1GHz~26.5GHz Plot



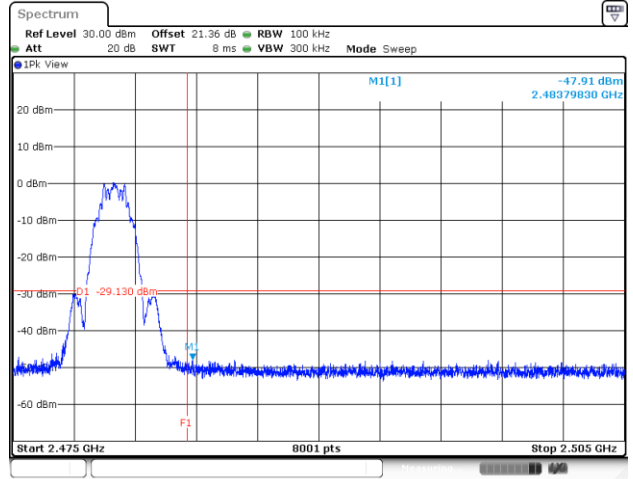


Channel 39

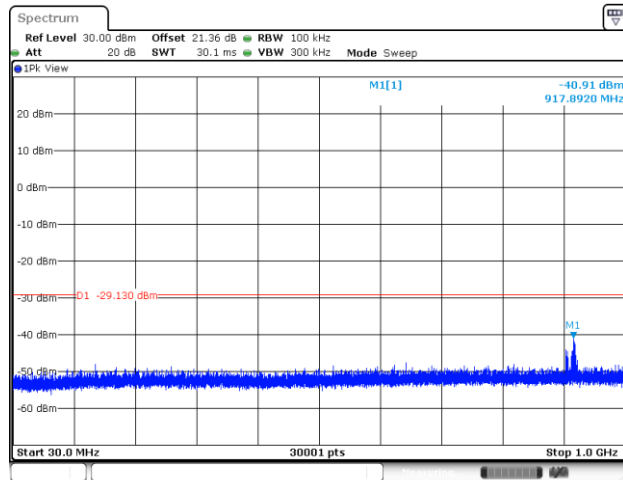
100kHz PSD reference Level Plot



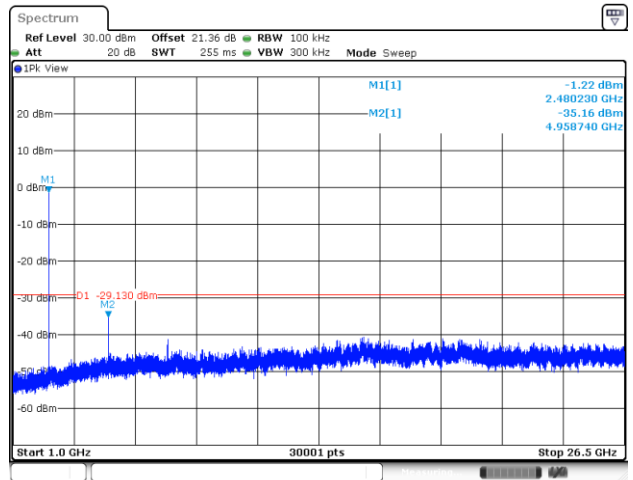
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





Appendix B. Radiated Spurious Emission

Test Engineer :	Jesse Fan and Kevin Hsu	Temperature :	18.2~22.4°C
		Relative Humidity :	43.5~47.7%

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2378.565	54.94	-19.06	74	40.69	27.38	17.46	30.59	105	125	P	H
		2389.38	44.01	-9.99	54	29.7	27.42	17.47	30.58	105	125	A	H
	*	2402	99.2	-	-	84.81	27.47	17.49	30.57	105	125	P	H
	*	2402	97.71	-	-	83.32	27.47	17.49	30.57	105	125	A	H
													H
		2363.13	55.61	-18.39	74	41.37	27.41	17.43	30.6	393	11	P	V
		2389.275	43.99	-10.01	54	29.6	27.5	17.47	30.58	393	11	A	V
	*	2402	94.57	-	-	80.11	27.54	17.49	30.57	393	11	P	V
	*	2402	93.05	-	-	78.59	27.54	17.49	30.57	393	11	A	V
													V
BLE CH 19 2440MHz		2359.12	55.39	-18.61	74	41.25	27.31	17.43	30.6	102	144	P	H
		2376.08	44.04	-9.96	54	29.81	27.37	17.45	30.59	102	144	A	H
	*	2440	98.75	-	-	84.17	27.6	17.56	30.58	102	144	P	H
	*	2440	97.26	-	-	82.68	27.6	17.56	30.58	102	144	A	H
		2484.4	54.94	-19.06	74	40.07	27.79	17.63	30.55	102	144	P	H
		2498.48	44.61	-9.39	54	29.65	27.85	17.65	30.54	102	144	A	H
		2362.16	54.71	-19.29	74	40.47	27.41	17.43	30.6	386	214	P	V
		2390	43.96	-10.04	54	29.57	27.5	17.47	30.58	386	214	A	V
	*	2440	94.18	-	-	79.53	27.67	17.56	30.58	386	214	P	V
	*	2440	92.74	-	-	78.09	27.67	17.56	30.58	386	214	A	V
		2496.32	56.11	-17.89	74	41.1	27.9	17.65	30.54	386	214	P	V
		2499.44	44.65	-9.35	54	29.62	27.92	17.65	30.54	386	214	A	V



BLE	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 39 2480MHz	*	2480	101.11	-	-	86.28	27.77	17.62	30.56	100	247	P	H
	*	2480	99.59	-	-	84.76	27.77	17.62	30.56	100	247	A	H
		2483.52	56.87	-17.13	74	42	27.79	17.63	30.55	100	247	P	H
		2483.52	47.23	-6.77	54	32.36	27.79	17.63	30.55	100	247	A	H
													H
													H
	*	2480	98.29	-	-	83.39	27.84	17.62	30.56	382	43	P	V
	*	2480	96.81	-	-	81.91	27.84	17.62	30.56	382	43	A	V
		2490.72	56.54	-17.46	74	41.57	27.88	17.64	30.55	382	43	P	V
		2483.52	46.37	-7.63	54	31.44	27.85	17.63	30.55	382	43	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		4804	44.78	-29.22	74	68.55	32.56	11.27	67.6	100	348	P	H
		4804	39.97	-14.03	54	63.74	32.56	11.27	67.6	100	348	A	H
	*	7206	64.88	-9.12	74	79.68	36.95	13.45	65.2	100	304	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4804	44.95	-29.05	74	68.65	32.63	11.27	67.6	100	12	P	V
		4804	38.35	-15.65	54	62.05	32.63	11.27	67.6	100	12	A	V
	*	7206	59.54	-14.46	74	74.26	37.03	13.45	65.2	396	315	P	V
													V
													V
													V
													V
													V
													V
													V
													V



BLE	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 19 2440MHz		4880	41.49	-32.51	74	64.73	32.92	11.35	67.51	-	-	P	H
		7320	54.16	-19.84	74	70.76	36.88	13.58	67.06	100	315	P	H
		7320	48.33	-5.67	54	64.93	36.88	13.58	67.06	100	315	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4880	41.63	-32.37	74	64.81	32.98	11.35	67.51	-	-	P	V
		7320	50.1	-23.9	74	66.61	36.97	13.58	67.06	400	314	P	V
		7320	43.43	-10.57	54	59.94	36.97	13.58	67.06	400	314	A	V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Emission above 18GHz

2.4GHz BLE (SHF)

BT	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE SHF		24937	40.9	-33.1	74	38.24	39.09	16.2	52.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		23068	41.53	-32.47	74	39.61	39.32	14.95	52.35	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz BLE LF		49.4	27.22	-12.78	40	43.82	14.66	1.16	32.42	-	-	P	H	
		73.65	27.76	-12.24	40	46.05	12.77	1.35	32.41	-	-	P	H	
		129.91	28.66	-14.84	43.5	41.79	17.47	1.8	32.4	-	-	P	H	
		551.86	25.86	-20.14	46	29.19	25.74	3.78	32.85	-	-	P	H	
		782.72	29.82	-16.18	46	29.79	28.15	4.55	32.67	-	-	P	H	
		954.41	33.43	-12.57	46	28.81	31.06	5.11	31.55	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
		48.43	34.18	-5.82	40	50.35	15.09	1.15	32.41	100	155	Q	V	
		84.32	32.23	-7.77	40	49.01	14.12	1.51	32.41	-	-	P	V	
		132.82	29.51	-13.99	43.5	42.59	17.48	1.84	32.4	-	-	P	V	
		282.2	23.31	-22.69	46	34.07	19.06	2.69	32.51	-	-	P	V	
		560.59	26.09	-19.91	46	28.83	26.3	3.81	32.85	-	-	P	V	
		864.2	30.83	-15.17	46	29.07	29.08	4.95	32.27	-	-	P	V	
														V
														V
														V
														V
													V	
													V	
Remark	1. No other spurious found.													
	2. All results are PASS against limit line.													
	3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.													

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical

A calculation example for radiated spurious emission is shown as below:

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix C. Radiated Spurious Emission Plots

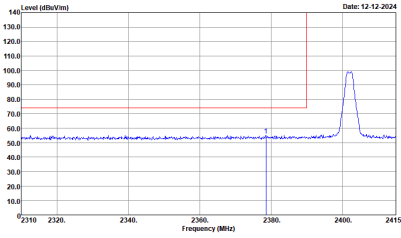
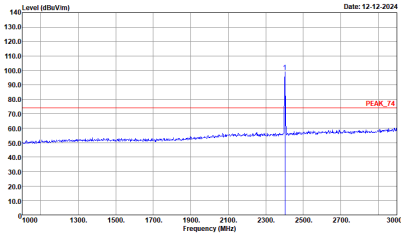
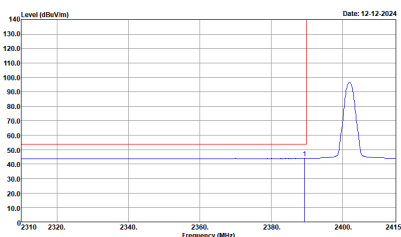
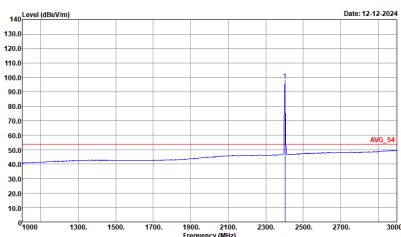
Test Engineer :	Jesse Fan and Kevin Hsu	Temperature :	18.2~22.4°C
		Relative Humidity :	43.5~47.7%

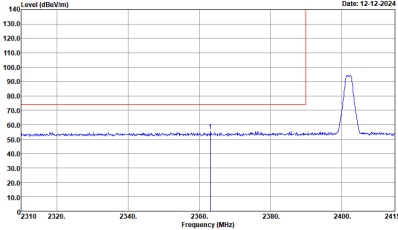
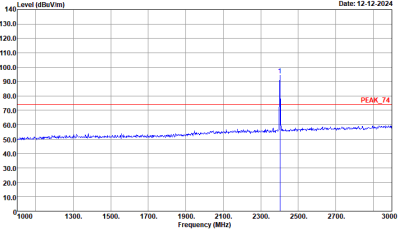
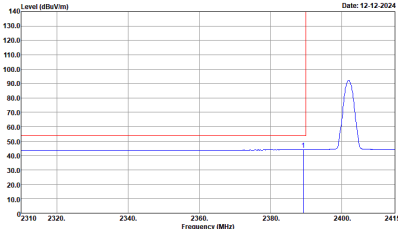
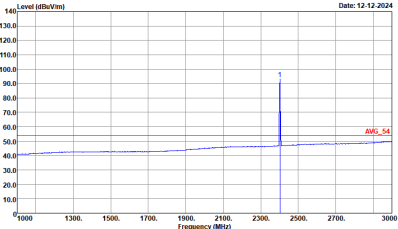
Note symbol

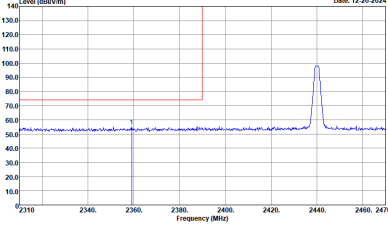
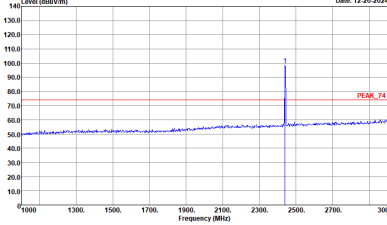
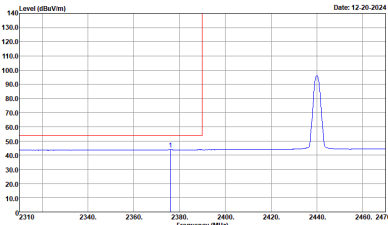
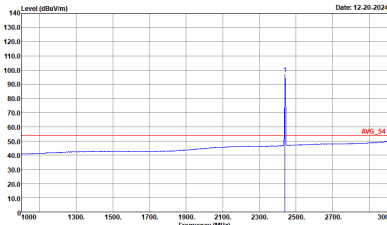
-L	Low channel location
-R	High channel location

2.4GHz 2400~2483.5MHz

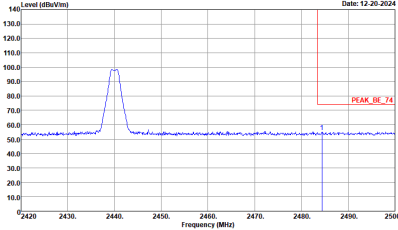
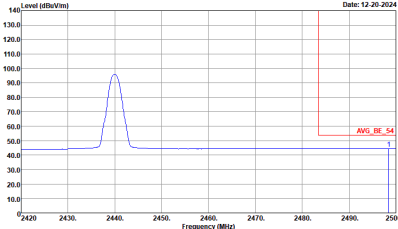
BLE (Band Edge @ 3m)

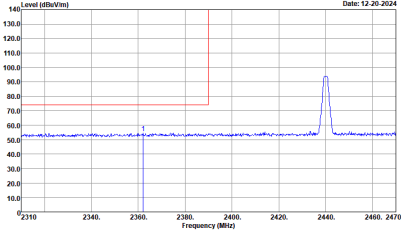
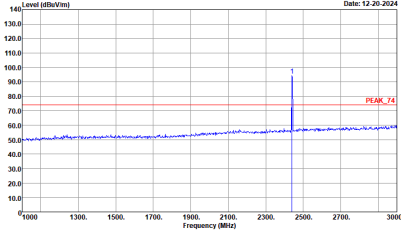
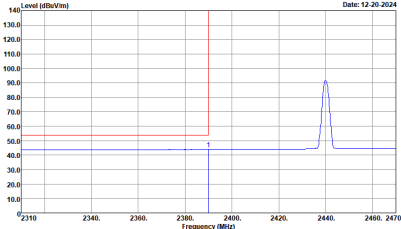
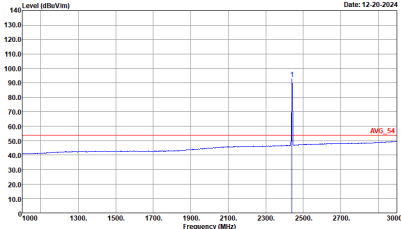
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH00 2402MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN_02113_240426 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto</p>
Avg.	 <p>Site : 03CH01-CA Condition : AVG_BE_54 3m HORN_02113_240426 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : AVG_54 3m HORN_02113_240426 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SMT:Auto</p>

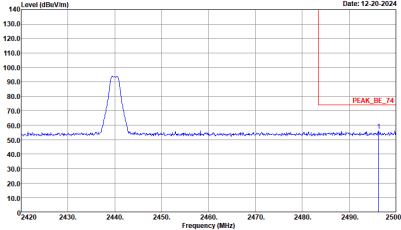
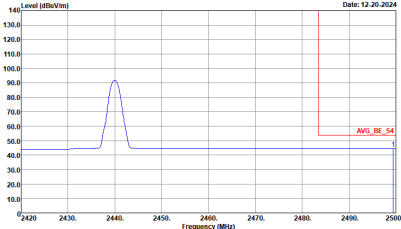
BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH00 2402MHz	
	Vertical	Fundamental
Peak	 <p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN_02113_240426 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p>
Avg	 <p>Site : 03CH01-CA Condition : AVG_BE_54 3m HORN_02113_240426 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : AVG_54 3m HORN_02113_240426 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p>

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN_02113_248426 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_248426 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SMT:Auto</p>
Avg.	 <p>Site : 03CH01-CA Condition : AVG_BE_54 3m HORN_02113_248426 HORIZONTAL : RBW:1000.000KHz VSW:0.0100KHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : AVG_54 3m HORN_02113_248426 HORIZONTAL : RBW:1000.000KHz VSW:0.0100KHz SMT:Auto</p>

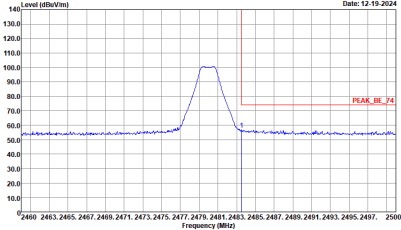
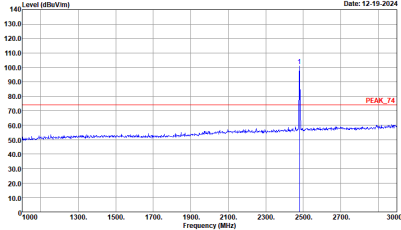
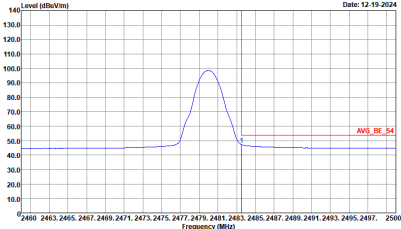
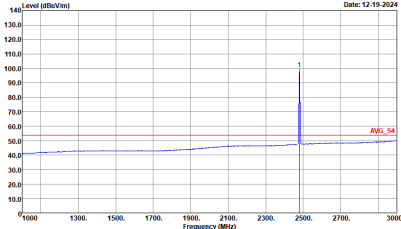


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN_02113_240426 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p></div>	Left blank
Avg.	<div><p>Site : 03CH01-CA Condition : AVG_BE_54 3m HORN_02113_240426 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p></div>	Left blank

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Vertical	Fundamental
Peak	 <p>Site : 03CH01-CA Condition : PEAK_BE_T4 3m HORN_02113_240426 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : PEAK_T4 3m HORN_02113_240426 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p>
Avg.	 <p>Site : 03CH01-CA Condition : AVG_BE_S4 3m HORN_02113_240426 VERTICAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p>	 <p>Site : 03CH01-CA Condition : AVG_S4 3m HORN_02113_240426 VERTICAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p>

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Vertical	Fundamental
Peak	 <p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN_02113_240426 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH01-CA Condition : AVG_BE_54 3m HORN_02113_240426 VERTICAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN_02113_248426 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p></div>	<div><p>Site : 03CH01-CA Condition : PEAK_F4 3m HORN_02113_248426 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p></div>
Avg.	<div><p>Site : 03CH01-CA Condition : AVG_BE_54 3m HORN_02113_248426 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p></div>	<div><p>Site : 03CH01-CA Condition : AVG_F4 3m HORN_02113_248426 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p></div>



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH01-CA Condition : PEAK_BE_74 3m HORN_02113_248426 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p></div>	<div><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_248426 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p></div>
Avg.	<div><p>Site : 03CH01-CA Condition : AVG_BE_54 3m HORN_02113_248426 VERTICAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p></div>	<div><p>Site : 03CH01-CA Condition : AVG_54 3m HORN_02113_248426 VERTICAL RBW:1000.000kHz VBW:0.010kHz SMT:Auto</p></div>



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBμV/m)</p><p>Date: 12-19-2024</p><p>PEAK_74</p><p>AVG_54</p><p>Site : 03CH01-CA</p><p>Condition : PEAK_74 3m HORN_02113_240426 HORIZONTAL</p></div>	<div><p>Level (dBμV/m)</p><p>Date: 12-19-2024</p><p>PEAK_74</p><p>AVG_54</p><p>Site : 03CH01-CA</p><p>Condition : PEAK_74 3m HORN_02113_240426 VERTICAL</p></div>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH00 2402MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 HORIZONTAL :</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 VERTICAL :</p></div>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH19 2440MHz	
	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Frequency (MHz)</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 HORIZONTAL :</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Frequency (MHz)</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 VERTICAL :</p></div>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH19 2440MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 HORIZONTAL :</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 VERTICAL :</p></div>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Vertical
Peak	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Frequency (MHz)</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 HORIZONTAL :</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>Frequency (MHz)</p><p>Site : 03CH01-CA Condition : PEAK_74 3m HORN_02113_240426 VERTICAL :</p></div>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Vertical
10.6G ~18G Avg.	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>PEAK_74</p><p>AVG_54</p><p>Site : 03CH01-CA</p><p>Condition : PEAK_74 3m HORN_02113_240426 HORIZONTAL</p></div>	<div><p>Level (dBuV/m)</p><p>Date: 12-19-2024</p><p>PEAK_74</p><p>AVG_54</p><p>Site : 03CH01-CA</p><p>Condition : PEAK_74 3m HORN_02113_240426 VERTICAL</p></div>



Emission above 18GHz
2.4GHz BLE (SHF @ 1m)

BLE	2.4GHz 2400~2483.5MHz	
	BLE SHF	
	Horizontal	Vertical
Peak Avg.	<div><p>Level (dBμV/m)</p><p>Date: 12-20-2024</p><p>Site : 03CH01-CA Condition : PEAK_74 1m SHF_HORN_841_240807 HORIZONTAL :</p></div>	<div><p>Level (dBμV/m)</p><p>Date: 12-20-2024</p><p>Site : 03CH01-CA Condition : PEAK_74 1m SHF_HORN_841_240807 VERTICAL :</p></div>

Emission below 1GHz

2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz	
	BLE LF	
	Horizontal	Vertical
QP / Peak	<p>Site : 03CH01-CA Condition : QP 3m B1LOG_54683_241115 HORIZONTAL</p>	<p>Site : 03CH01-CA Condition : QP 3m B1LOG_54683_241115 VERTICAL</p>

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 2Mbps	100.00	-	-	10Hz

