Audix Technology Corp.
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FCC 15.247
2.4GHz Test Report

for

LIGHTMED CORPORATION

No. 1-1, Lane 1, Sec. 3, Pao An St.
Shulin District, New Taipei City 238, Taiwan

Product Name	**:**	**Receiver**
Model Name	**:**	**Pedal Receiver**
Brand	**:**	**LIGHTMED**
FCC ID	**:**	**2BH2T-LCA903R**

Prepared by: **:** **AUDIX Technology Corporation,**
EMC Department

Testing Laboratory
1724

TESTING
NVLAP LAB CODE 200077-0

The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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TEST REPORT

Applicant	:	LIGHTMED CORPORATION
Manufacturer	:	LIGHTMED CORPORATION
EUT Description		
(1) Product	:	Receiver
(2) Model	:	Pedal Receiver
(3) Brand	:	LIGHTMED
(4) Power Supply	:	DC 12V

Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C

Audix Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.
Audix Technology Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2024. 09. 23

Reviewed by: Annie Yu (Annie Yu/Supervisor)

Approved by: Johnny Hsueh (Johnny Hsueh/Section Manager)

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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2024. 09. 23	Original Report	EM-F240414

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2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	**PASS**
15.247(d)/15.205	Radiated Band Edge and Radiated Spurious Emission	**PASS**
15.247(a)(2)	DTS/Occupied Bandwidth	**PASS**
15.247(b)(3)	Maximum Peak Output Power	**PASS**
15.247(d)	Conducted Band Edges and Conducted Spurious Emission	**PASS**
15.247 (e)	Peak Power Spectral Density	**PASS**
15.203	Antenna Requirement	**Compliance**
Note: The uncertainties value is not used in determining the result.		

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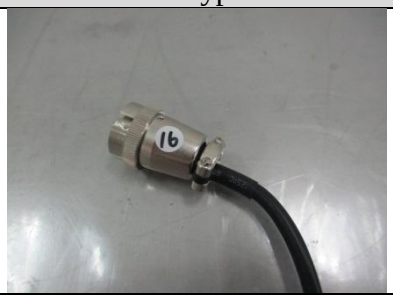
3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LIGHTMED CORPORATION No. 1-1, Lane 1, Sec. 3, Pao An St. Shulin District, New Taipei City 238, Taiwan
Manufacturer	LIGHTMED CORPORATION No. 1-1, Lane 1, Sec. 3, Pao An St. Shulin District, New Taipei City 238, Taiwan
Product	Receiver
Model	Pedal Receiver The model has two type power connectors (A Type and B Type). A Type:  B Type:  Note: After conducting preliminary tests with both types, we selected Type A as the worst-case scenario and presented the report accordingly.
Brand	LIGHTMED

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3.2. Description of EUT

Model	Pedal Receiver
Serial Number	N/A
Software Version	N/A
Power Rating	DC 12V
RF Features	BLE
Transmit Type	1T1R
Sample Status	Trial sample
Test Sample	Sample No. / Test Item / Firmware: 01 / AC Conduction, RSE, RF Conducted / N/A
Date of Receipt	2024. 05. 08
Date of Test	2024. 08. 16 ~ 21
Interface Ports of EUT	• Power Connector In x1
Accessories Supplied	• N/A

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information etc are provided by customer.

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3.3. Reference Test Guidance

KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10:2013

3.4. Antenna Information

No.	Model	Manufacture	Antenna Type	Frequency (MHz)	Gain(dBi)
1.	FXP70.07.0053A	TAOGLAS	PCB Antenna	2400-2500	1.1

3.5. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
BLE	2402-2480	40	GFSK (1Mbps, 2Mbps, PHY Coded S2, PHY Coded S8)	2

Channel List							
BLE							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
37	2402	09	2422	18	2442	28	2462
00	2404	10	2424	19	2444	29	2464
01	2406	38	2426	20	2446	30	2466
02	2408	11	2428	21	2448	31	2468
03	2410	12	2430	22	2450	32	2470
04	2412	13	2432	23	2452	33	2472
05	2414	14	2434	24	2454	34	2474
06	2416	15	2436	25	2456	35	2476
07	2418	16	2438	26	2458	36	2478
08	2420	17	2440	27	2460	39	2480

3.6. Descriptions of Key Components

Item	Supplier/Brand	Model	Specification
BLE Module	Raytac	MDBT42Q-U	BT V5.0 single mode LE (GFSK)

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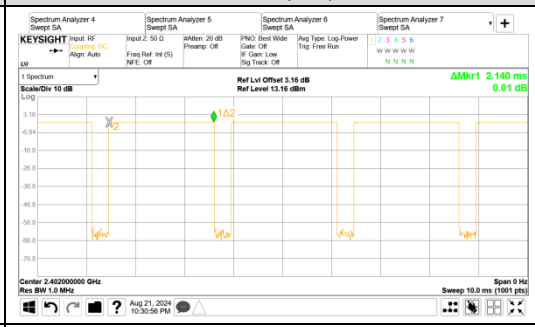
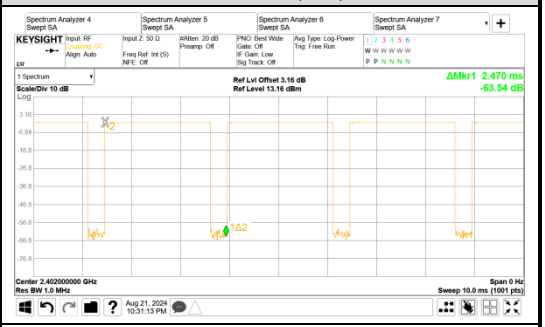
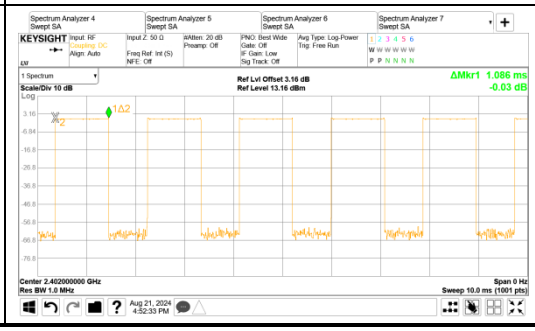
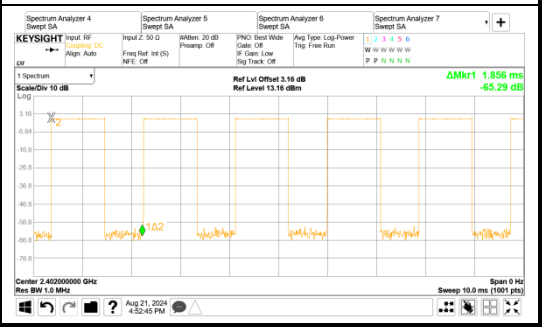
3.7. Test Configuration

Mode	TX_{on} (ms)	TX_{on+off} (ms)	1/ TX_{on} (kHz)	Duty Cycle (x)	VBW(>1/ TX_{on})
BLE (1Mbps)	2.140	2.470	0.467	0.866	470Hz
BLE (2Mbps)	1.086	1.856	0.921	0.585	1.0kHz

Mode	TX_{on} (ms)	$T_{on}+T_{off}$(ms)
BLE (1Mbps)		
BLE (2Mbps)		

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AC Conduction
Normal operation

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Spurious Emission(30MHz~1GHz)	BLE	1Mbps	17
	Radiated Band Edge Note1	BLE	2Mbps	37/39
	Radiated Spurious Emission Note1	BLE	1Mbps	37/17/39

Item		Mode	Data Rate	Test Channel
Conducted Test Case	DTS/Occupied Bandwidth	BLE	1Mbps	37/17/39
			2Mbps	37/17/39
			PHY Coded S2	37/17/39
			PHY Coded S8	37/17/39
	Peak Output Power	BLE	1Mbps	37/17/39
			2Mbps	37/17/39
			PHY Coded S2	37/17/39
			PHY Coded S8	37/17/39
	Band Edge	BLE	2Mbps	37/39
	Spurious Emission	BLE	2Mbps	37/17/39
	Peak Power Spectral Density	BLE	2Mbps	37/17/39

Note 1: ■Mobile Device □Portable Device
and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:
□Lie □Side □Stand

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3.8. Output Power Setting

Mode	Centre Frequency (MHz)	Power Setting
BLE	2402	Default
	2440	Default
	2480	Default

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

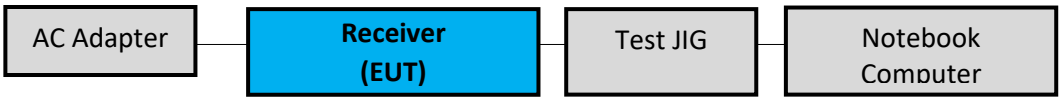
No.	Product	Brand	Model No.	Serial No.	Approval
1.	AC Adapter	SONY	KDL-1230	N/A	N/A
2.	Test JIG	Silicon Labs	CP2102 USB to UART Bridge	N/A	N/A
3.	Notebook Computer	Dynabook	CS40L-HB	51144042H	N/A

3.9.2. Cable Lists

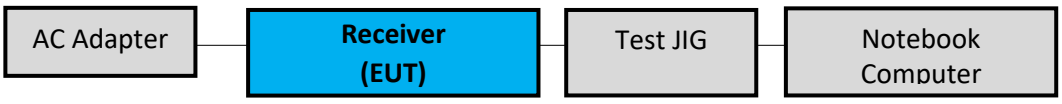
No.	Cable Description Of The Above Support Units
1.	DC Cord：Shielded, Undetachable, 1.0m, Bonded a ferrite core AC Power Cord：Unshielded, Detachable, 1.8m
2.	AC Power Cord: Unshielded, Undetachable, 1.8m

3.10. Setup Configuration

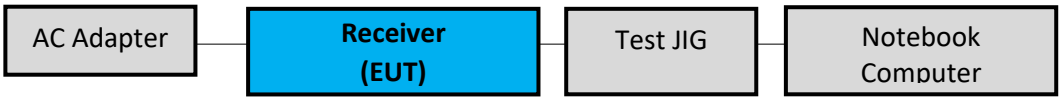
3.10.1. EUT Configuration for Power Line



3.10.2. EUT Configuration for Radiated Emission



3.10.3. EUT Configuration for RF Conducted Test Items



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3.11.Operating Condition of EUT

Test program "NRF_Test Tool" is used for enabling EUT BLE function under continues transmitting and choosing data rate/ channel.

3.12.Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber

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3.13.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☐	No. 7 Shielded Room	9kHz-150kHz	±3.6dB
			150kHz-30MHz	±3.3dB
	☒	No. 8 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.8dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.3dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±4.5dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.3dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.9dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±3.8dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.7dB
			1GHz-6GHz, 3m	±4.8dB
			6GHz-18GHz, 3m	±4.6dB
	Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m	±3.4dB

Remark：Uncertainty = $ku_c(y)$

Test Items	Uncertainty
6dB Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dB
Power spectral density	± 0.13dB
Conducted Emission Limitations	± 0.13dB

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4. MEASUREMENT EQUIPMENTLIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2024.01.09	1 Year
2.	A.M.N.	R&S	ENV432	101567	2024.06.07	1 Year
3.	Pulse Limiter	R&S	ESH3-Z2	100354	2023.12.09	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2024.04.11	1 Year
5.	Coaxial Cable	Yeida	RG/58AU	CE-08	2023.09.06	1 Year
6.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9010B-526	MY57410128	2024.05.22	1 Year
2.	Test Receiver	R&S	ESCS30	100338	2024.06.18	1 Year
3.	Amplifier	EMCI	EMC9145	980751	2024.07.09	1 Year
4.	Amplifier	HP	8447D	2944A06305	2023.12.20	
5.	Microwave Amplifier	HP	8449B	3008A01284	2024.06.11	1 Year
6.	Microwave Amplifier	Keysight	83051A	MY56480113	2024.09.11	1 Year
7.	Loop Antenna	Electro-Metrics	EMCI-LPA600	287	2024.07.31	1 Year
8.	Bilog Antenna	TESEQ	CBL6112D	33821	2024.02.17	1 Year
9.	Horn Antenna	EMCO	3115	9112-3775	2024.04.30	1 Year
10.	Horn Antenna	COM-POWER	AH-840	101092	2024.01.12	1 Year
11.	2.4GHz Notch Filter	K&L Microwave	7NSL10-2441.5/ E130.5-O/O	2	2024.04.11	1 Year
12.	3GHz Notch Filter	Microwave	H3G018G1	484796	2024.04.11	1 Year
13.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2024.01.05	1 Year
14.	Coaxial Cable	HUBER+SUHNER	RG223/U	RE-33	2024.03.01	
15.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2024.01.05	1 Year
16.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2024.08.20	1 Year
17.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2024.04.11	1 Year
18.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

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4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9030B	MY61330403	2023. 12. 05	1 Year
2.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2023.04.13	1 Year

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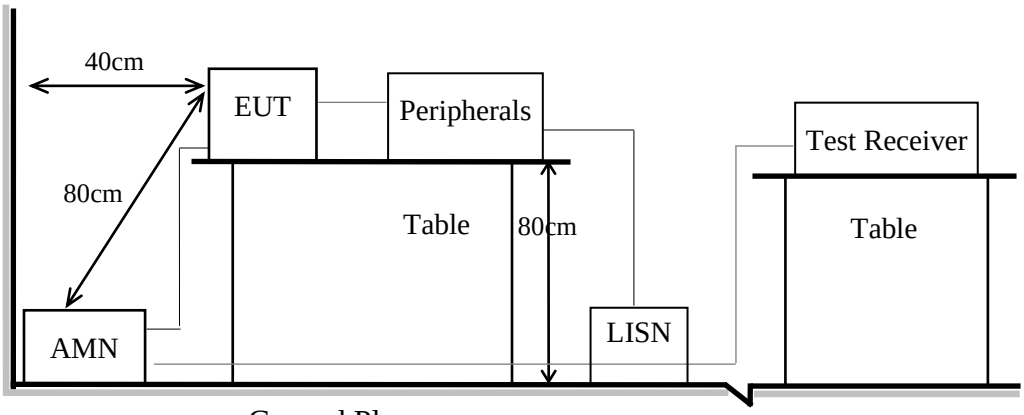
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.10

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.
2.: The lower limit applies to the band edges.

5.3. Test Procedure

5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Test Results

Please refer to Appendix A.

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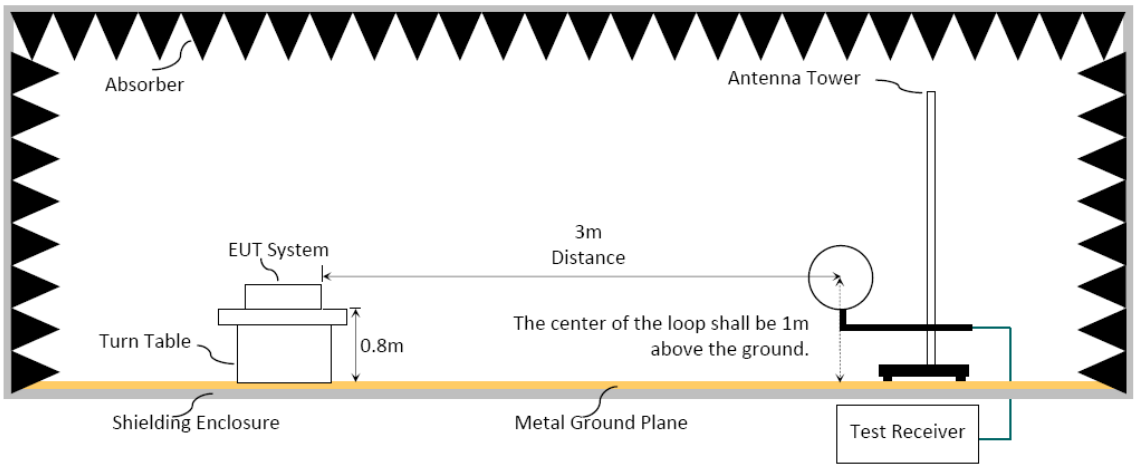
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

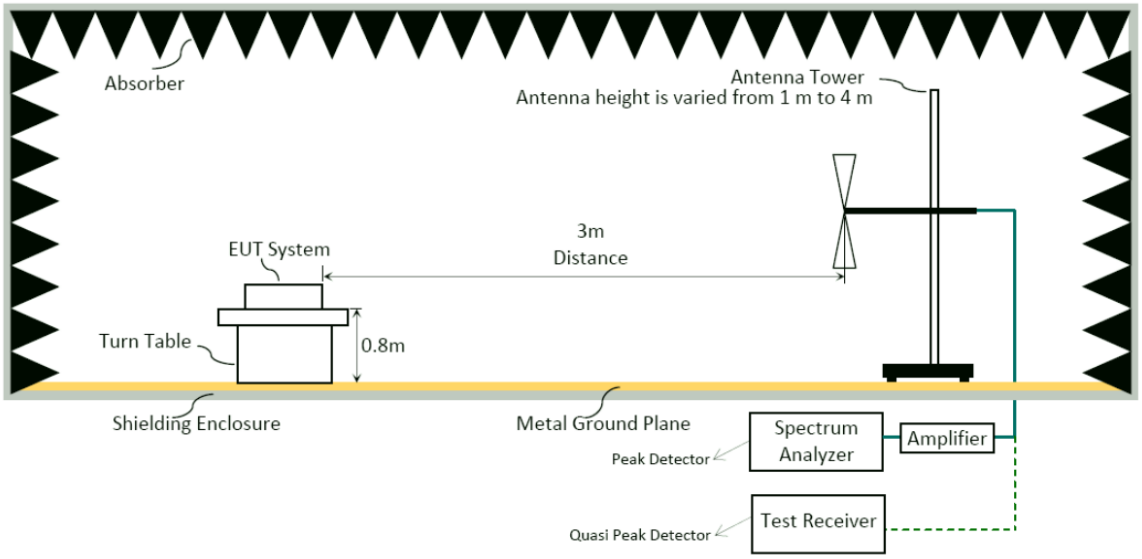
6.1.1. Block Diagram of EUT

Indicated as section 3.10

6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



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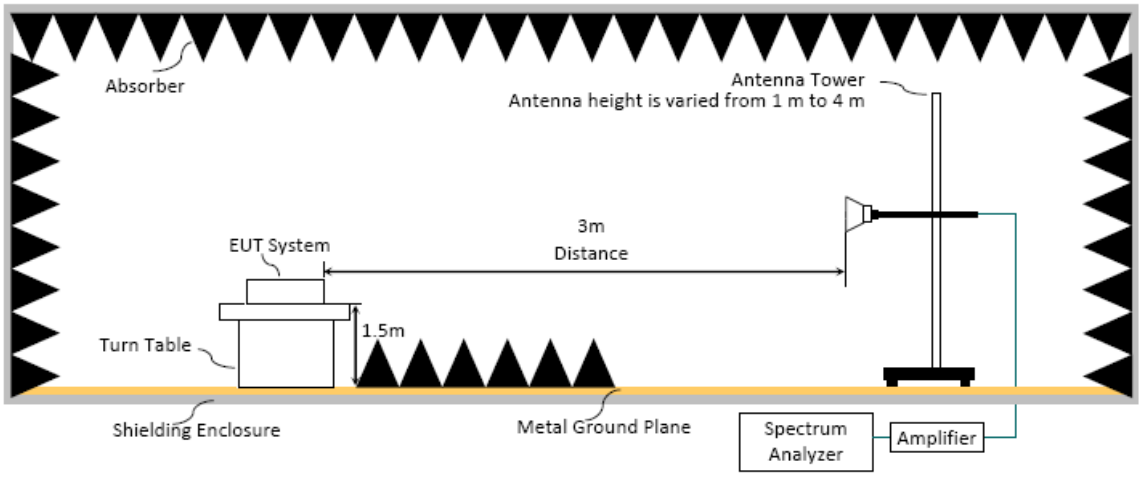
6.1.4. Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dBμV/m	μV/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) dBμV/m = 20 log (μV/m)
(2) The tighter limit applies to the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) Fundamental and emission fall within operation band are exempted from this section.
(5) Pursuant to ANSI C63.10: 6.6.4.3,if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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6.3. Test Procedure

Frequency Range 9kHz~30MHz:
The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level.
In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

(1) RBW = 9kHz with peak and average detector.
(2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:
The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1GHz:
Spectrum Analyzer is used for pre-testing with following setting:
(1)RBW = 120KHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.
Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic (up to 25 GHz):
Peak Detector:
(1)RBW = 1MHz
(2)VBW ≥ 3 x RBW.
(3)Detector = Peak.
(4)Sweep time = auto.
(5)Trace mode = max hold.
(6)Allow sweeps to continue until the trace stabilizes.
Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

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Average Detector:

■**Option 1:**

(1)RBW = 1MHz

(2)VBW ≥ 1/ T. (Duty Cycle < 98%, when duty cycle presented in section 3.7)

Modulation Type	VBW Setting (VBW ≥ 1/ T)
BLE (1Mbps)	470Hz
BLE (2Mbps)	1.0kHz

(3)VBW = 10Hz (Duty Cycle ≥ 98%, when duty cycle presented in section 3.7)

(4)Detector = Peak.

(5)Sweep time = auto.

(6)Trace mode = max hold.

(7)Allow sweeps to continue until the trace stabilizes.

□**Option 2:**

Average Emission Level= Peak Emission Level+ D.C.C.F.

6.4. Measurement Result Explanation

■Peak Emission Level(dBμV/m)=Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dBμV).

■Average Emission Level(dBμV/m)= Antenna Factor(dB/m) + Cable Loss (dB)– Preamp Gain (dB)+ Reading(dBμV).

□Average Emission Level(dBμV/m)= Peak Emission Level(dBμV/m)+ DCCF(dB)
Duty Cycle Correction Factor (DCCF)(dB)= 20log(TX_{on}/TX_{on+off}) presented in section 3.7.

□ERP(dBm)= Peak Emission Level(dBμV/m) -95.2dB-2.14dB

6.5. Test Results

Please refer to Appendix A.

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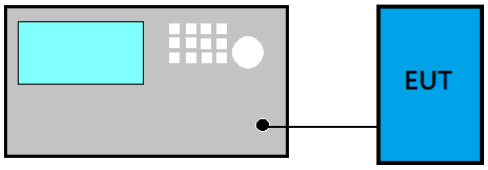
7. DTS/OCCUPIED BANDWIDTH

7.1. Block Diagram of Test Setup



7.2. Specification Limits

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

7.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

For DTS Bandwidth

(1) Set RBW = 100 kHz.
(2) Set the video bandwidth (VBW) ≥ 3 × RBW.
(3) Detector = Peak.
(4) Trace mode = max hold.
(5) Sweep = auto couple.
(6) Allow the trace to stabilize.
(7) Setting channel bandwidth function x to -6dB power to record the final bandwidth..

For 99% Occupied Bandwidth

(1) Set Span range 1.5~5 times the OBW
(2) Set RBW close to1% to 5% of OBW.
(3) Set VBW≥3xRBW.
(4) Detector = Peak.
(5) Trace mode = Max hold
(6) Sweep = Auto couple.
(7) Allow the trace to stabilize.

7.4. Test Results

Please refer to Appendix A

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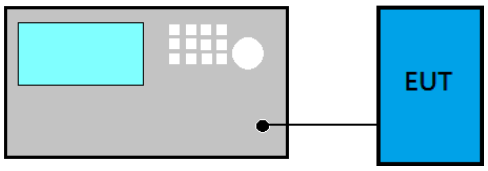
8. MAXIMUM PEAK OUTPUT POWER

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

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8.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

☐**PKPM1 Peak power meter method:**

EUT is connected to power sensor and record the maximum output power.

■**Maximum peak conducted output power method:**

(1) Set the RBW ≥ DTS bandwidth
(2) Set VBW ≥ 3 × RBW
(3) Set span ≥ 3 × RBW.
(4) Sweep time = auto couple
(5) Detector = peak.
(6) Trace mode = max hold.
(7) Allow trace to fully stabilize.
(8) Use peak marker function to determine the peak amplitude level.

☐**Method AVGPM (Measurement using an RF average power meter):**

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is< 98%.

☐**Method AVGSA-2 (Spectrum channel power)**

(1) Set span to at least 1.5 times the OBW
(2) Set RBW = 1 -5%of OBW
(3) Set the video bandwidth (VBW) ≥ 3 × RBW.
(4) Detector = RMS.
(5) Trace mode = trace average at least 100 traces
(6) Sweep = auto couple.
(7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
(8) Duty cycle factor is added when duty cycle presented in section 3.7 is < 98%.

8.4. Test Results

Please refer to Appendix A

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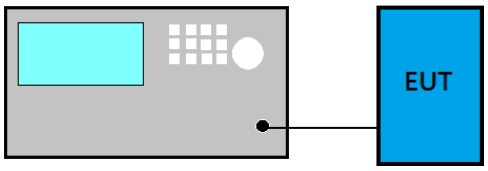
9. EMISSION LIMITATIONS

9.1. Block Diagram of Test Setup



9.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

9.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

■Reference Level

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize to find the max PSD as reference level.

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■Emission Level Measurement

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize to find the max level.

9.4. Test Results

Please refer to Appendix A

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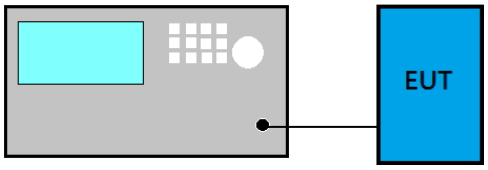
10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

10.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

■Method PKPSD (peak PSD)

(1) Set analyzer center frequency to DTS channel center frequency.
(2) Set the span to 1.5 times the DTS bandwidth.
(3) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
(4) Set the VBW ≥ 3 × RBW.
(5) Detector = peak.
(6) Sweep time = auto couple.
(7) Trace mode = max hold.
(8) Allow trace to fully stabilize.
(9) Use the peak marker function to determine the maximum amplitude level.
(10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

□Method AVGPSD-2

(1) Using peak PSD procedure step 1 to step 4.
(2) Detector= RMS detector
(3) Sweep time = auto couple
(4) Trace mode = trace averaging over a minimum of 100 traces
(5) Use the peak marker function to determine the maximum amplitude level.
(6) Duty cycle factor is added when duty cycle presented in section 3.7< 98%.
(7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

10.4. Test Results

Please refer to Appendix A

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11. DEVIATION TO TEST SPECIFICATIONS

【NONE】

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APPENDIX A

TEST DATA AND PLOTS

(Model: Pedal Receiver)

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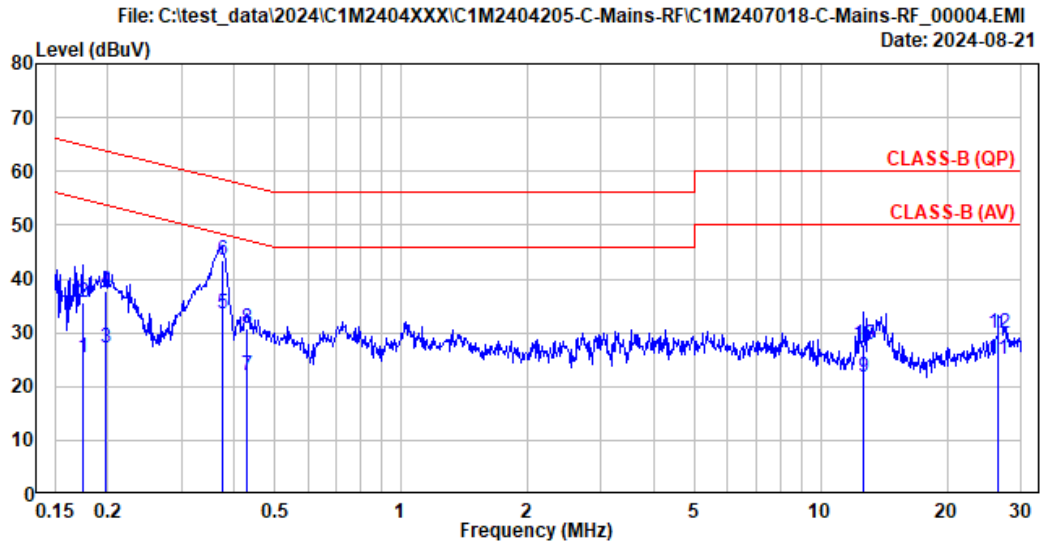
A.1 CONDUCTED EMISSION

Test Date	2024/08/21	Temp./Hum.	25℃/54%
Test Voltage	AC 120V/60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B (QP)
Environment : 25*C/54%
EUT Model : PEDAL RECEIVER
Test Mode : Operating

Data No. : 4
Phase : Neutral
Test Rating : AC 120V/60Hz
Engineer : Roy Hung

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.174	10.26	0.03	9.85	5.34	25.48	54.76	29.28	Average
2	0.174	10.26	0.03	9.85	15.51	35.65	64.76	29.11	QP
3	0.197	10.26	0.03	9.85	7.13	27.27	53.72	26.45	Average
4	0.197	10.26	0.03	9.85	17.54	37.68	63.72	26.04	QP
5	0.375	10.26	0.03	9.85	13.25	33.39	48.38	14.99	Average
6	0.375	10.26	0.03	9.85	23.18	43.32	58.38	15.06	QP
7	0.429	10.26	0.03	9.85	1.75	21.89	47.26	25.37	Average
8	0.429	10.26	0.03	9.85	10.56	30.70	57.26	26.56	QP
9	12.666	10.67	0.15	9.90	1.16	21.88	50.00	28.12	Average
10	12.666	10.67	0.15	9.90	7.18	27.90	60.00	32.10	QP
11	26.485	11.26	0.23	9.98	3.55	25.02	50.00	24.98	Average
12	26.485	11.26	0.23	9.98	8.52	29.99	60.00	30.01	QP

Remarks: 1. Emission Level(dBµV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBµV).

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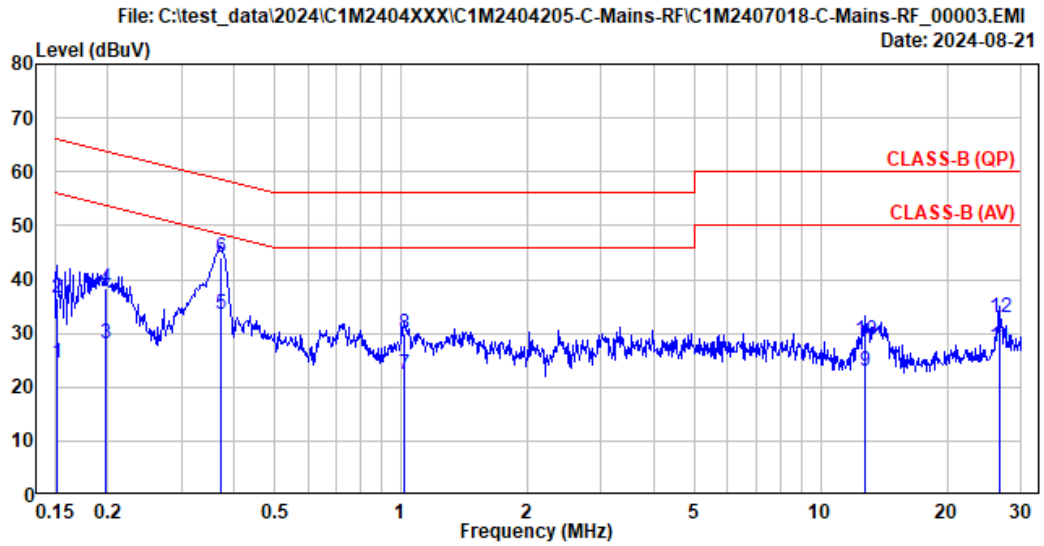
Test Date	2024/08/21	Temp./Hum.	25℃/54%
Test Voltage	AC 120V/60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B (QP)
Environment : 25*C/54%
EUT Model : PEDAL RECEIVER
Test Mode : Operating

Data No. : 3
Phase : Line
Test Rating : AC 120V/60Hz
Engineer : Roy Hung

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.152	10.26	0.03	9.85	4.38	24.52	55.92	31.40	Average
2	0.152	10.26	0.03	9.85	16.37	36.51	65.92	29.41	QP
3	0.197	10.25	0.03	9.85	7.92	28.05	53.72	25.67	Average
4	0.197	10.25	0.03	9.85	18.29	38.42	63.72	25.30	QP
5	0.372	10.25	0.03	9.85	13.36	33.49	48.47	14.98	Average
6	0.372	10.25	0.03	9.85	24.05	44.18	58.47	14.29	QP
7	1.022	10.26	0.04	9.85	2.13	22.28	46.00	23.72	Average
8	1.022	10.26	0.04	9.85	9.61	29.76	56.00	26.24	QP
9	12.729	10.51	0.16	9.90	2.34	22.91	50.00	27.09	Average
10	12.729	10.51	0.16	9.90	8.25	28.82	60.00	31.18	QP
11	26.618	10.81	0.23	9.98	6.45	27.47	50.00	22.53	Average
12	26.618	10.81	0.23	9.98	11.89	32.91	60.00	27.09	QP

Remarks: 1. Emission Level(dBµV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBµV).

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A.2 RADIATED EMISSION

Test Date	2024/08/16	Temp./Hum.	24°C/52%
Test Voltage	AC 120V/60Hz (Via AC Adapter)	Tested By	Ryan Chiang

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

Mode	BLE (1Mbps)	Frequency	TX 2440MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.134	23.08	1.24	26.52	29.84	27.64	40.00	12.36	Peak
100.228	16.39	2.30	26.31	33.14	25.52	43.50	17.98	Peak
167.999	15.27	3.06	25.94	38.71	31.10	43.50	12.40	Peak
276.380	18.27	4.14	25.69	39.23	35.95	46.00	10.05	Peak
282.329	18.35	4.20	25.68	39.59	36.46	46.00	9.54	Peak
429.317	21.64	5.79	26.72	31.79	32.51	46.00	13.49	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.388	23.85	1.21	26.52	31.94	30.48	40.00	9.52	Peak
46.749	15.51	1.51	26.49	37.16	27.68	40.00	12.32	Peak
74.232	12.13	1.96	26.39	40.68	28.38	40.00	11.62	Peak
167.999	15.27	3.06	25.94	35.04	27.43	43.50	16.07	Peak
584.387	23.88	6.71	27.37	31.99	35.21	46.00	10.79	Peak
647.049	24.29	7.02	27.41	31.57	35.48	46.00	10.52	Peak

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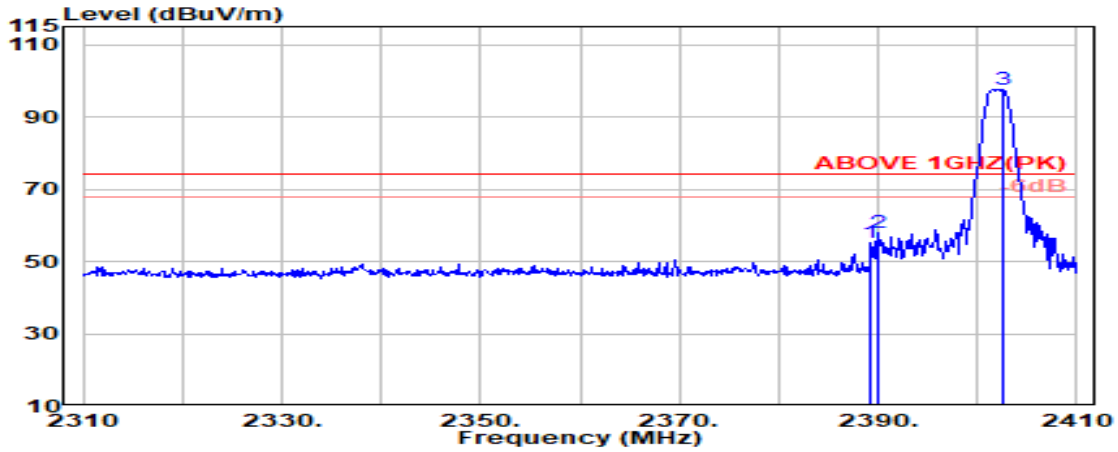
A.2.1.3 Frequency Above 1 GHz to 10th harmonics

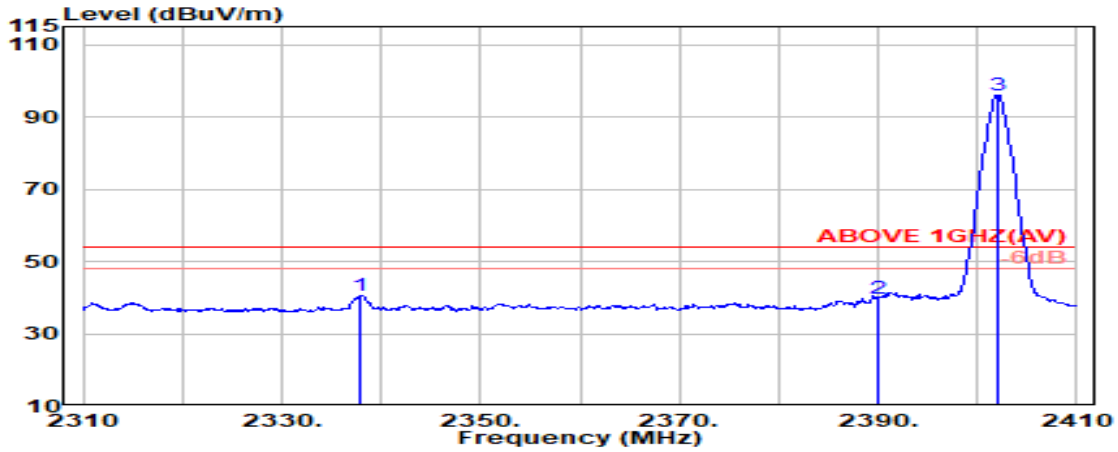
Band Edge:

Mode	BLE (2Mbps)	Frequency	TX 2402MHz



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2389.200	28.14	6.03	39.93	60.78	55.03	74.00	18.97	Peak
	2390.000	28.14	6.03	39.93	63.74	57.98	74.00	16.02	Peak
@	2402.500	28.11	6.05	39.93	103.42	97.65	---	---	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2337.900	28.23	5.96	39.94	46.33	40.58	54.00	13.42	Average
	2390.000	28.14	6.03	39.93	45.40	39.64	54.00	14.36	Average
@	2402.000	28.11	6.05	39.93	101.93	96.16	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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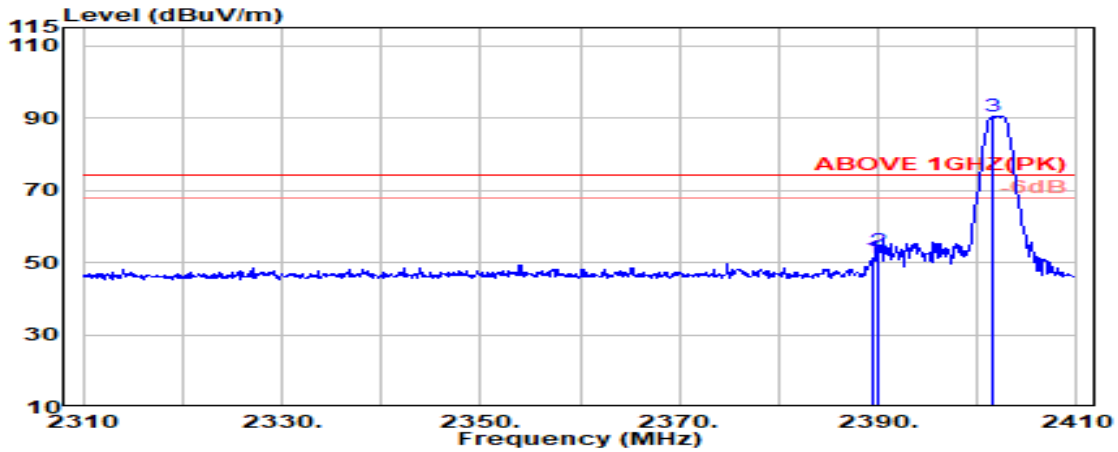
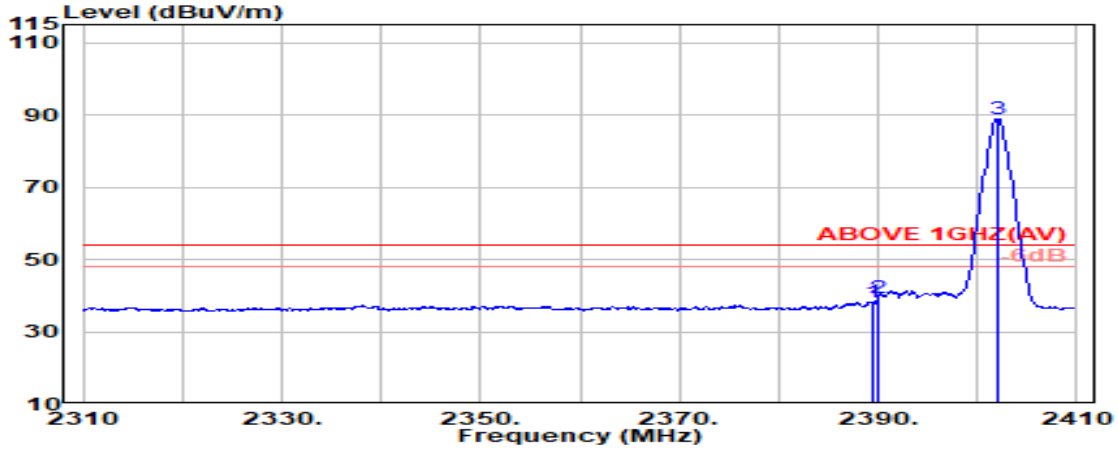
Mode	BLE (2Mbps)	Frequency	TX 2402MHz



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2389.400	28.14	6.03	39.93	56.93	51.18	74.00	22.82	Peak
	2390.000	28.14	6.03	39.93	59.01	53.25	74.00	20.75	Peak
@	2401.500	28.11	6.05	39.93	96.28	90.51	---	---	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
	2389.500	28.14	6.03	39.93	44.07	38.32	54.00	15.68	Average
	2390.000	28.14	6.03	39.93	45.08	39.32	54.00	14.68	Average
@	2402.000	28.11	6.05	39.93	94.66	88.89	---	---	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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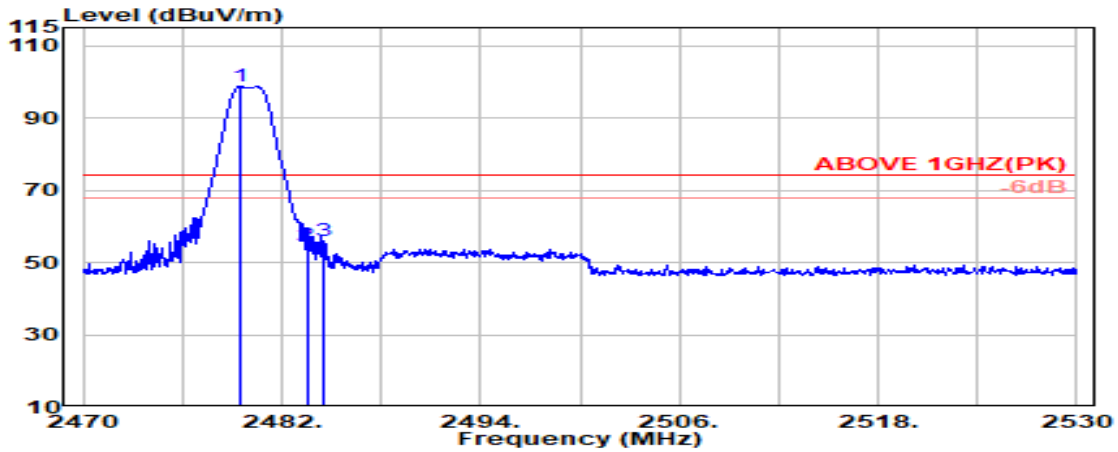
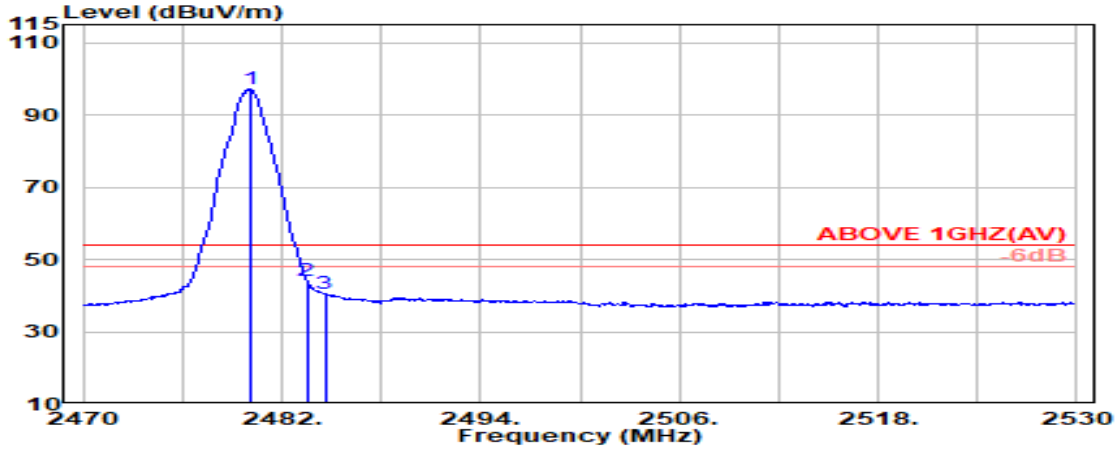
Mode	BLE (2Mbps)	Frequency	TX 2480MHz



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2479.450	28.36	6.16	39.92	104.09	98.69	---	---	Peak
	2483.500	28.37	6.17	39.92	59.99	54.61	74.00	19.39	Peak
	2484.550	28.37	6.17	39.92	61.31	55.93	74.00	18.07	Peak



Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.100	28.36	6.16	39.92	102.54	97.14	---	---	Average
	2483.500	28.37	6.17	39.92	49.34	43.95	54.00	10.05	Average
	2484.600	28.37	6.17	39.92	46.03	40.65	54.00	13.35	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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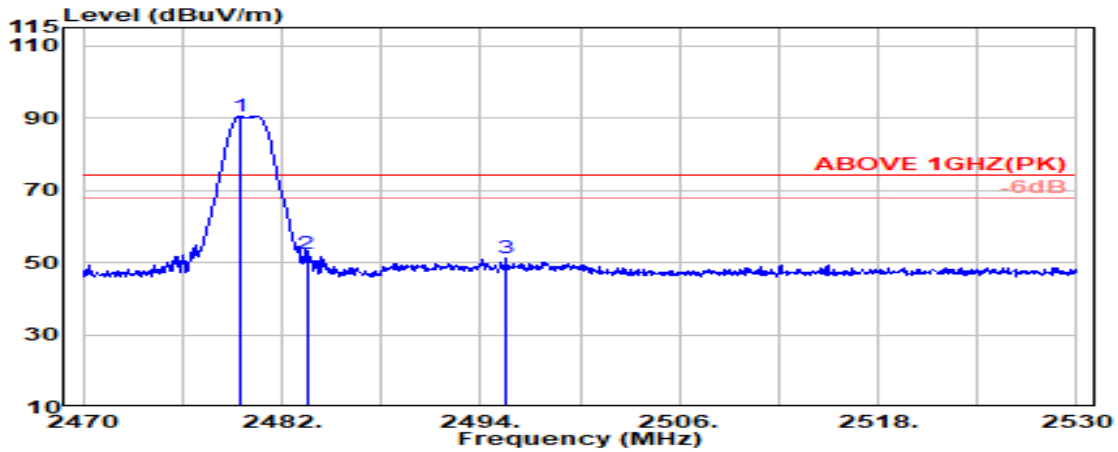
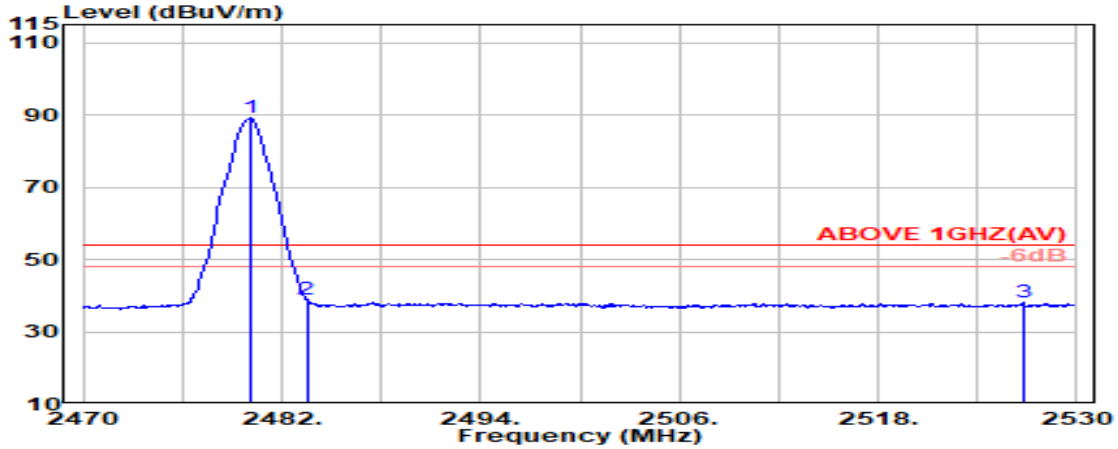
Mode	BLE (2Mbps)	Frequency	TX 2480MHz



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2479.500	28.36	6.16	39.92	95.92	90.52	---	---	Peak
	2483.500	28.37	6.17	39.92	57.59	52.20	74.00	21.80	Peak
	2495.550	28.39	6.18	39.92	56.45	51.10	74.00	22.90	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.100	28.36	6.16	39.92	94.47	89.07	---	---	Average
	2483.500	28.37	6.17	39.92	44.22	38.83	54.00	15.17	Average
	2526.750	28.56	6.22	39.93	43.25	38.10	54.00	15.90	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

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A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	BLE (1Mbps)	Frequency	TX 2402MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.32	39.39	47.65	49.51	54.00	4.49	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.32	39.39	48.48	50.33	54.00	3.67	Peak

Mode	BLE (1Mbps)	Frequency	TX 2440MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.16	8.37	39.35	48.97	51.15	54.00	2.85	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4880.000	33.16	8.37	39.35	48.01	50.19	54.00	3.81	Peak

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Mode	BLE (1Mbps)	Frequency	TX 2480MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.42	39.32	47.34	49.68	54.00	4.32	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.42	39.32	47.64	49.98	54.00	4.02	Peak

A.2.3 Emissions in Non-restricted Frequency Bands:

Pursuant to ANSI C63.10:2013 that emission levels below the FCC 15.209(a) general radiated emissions limits is not required.

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A.3 DTS/OCCUPIED BANDWIDTH

Test Date	2024/08/21	Temp./Hum.	23°C/49%
Cable Loss	3.16dB	Tested By	Ryan Chiang
Test Voltage	AC 120V/60Hz (Via AC Adapter)		

A.3.1 DTS/Occupied Bandwidth Result

Mode	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
BLE (1Mbps)	2402	0.7033	1.0541	>500kHz
	2440	0.7036	1.0545	
	2480	0.7142	1.0555	
BLE (2Mbps)	2402	1.144	2.0515	>500kHz
	2440	1.145	2.0562	
	2480	1.150	2.0640	
BLE (PHY Coded S2)	2402	0.7155	1.0522	>500kHz
	2440	0.7142	1.0555	
	2480	0.7185	1.0556	
BLE (PHY Coded S8)	2402	0.7023	1.0533	>500kHz
	2440	0.7163	1.0556	
	2480	0.7039	1.0560	

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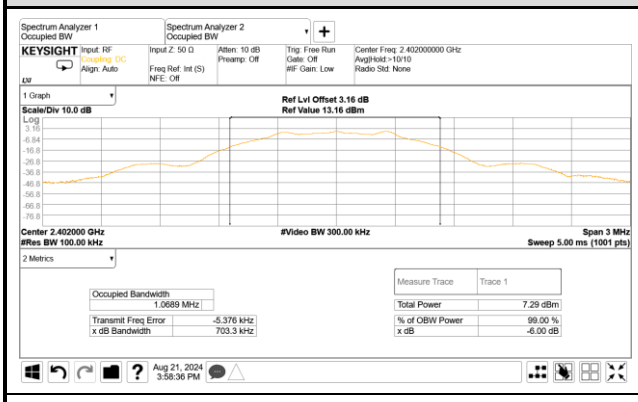
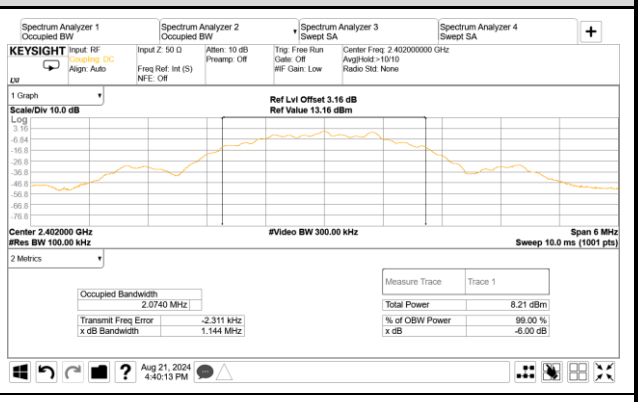
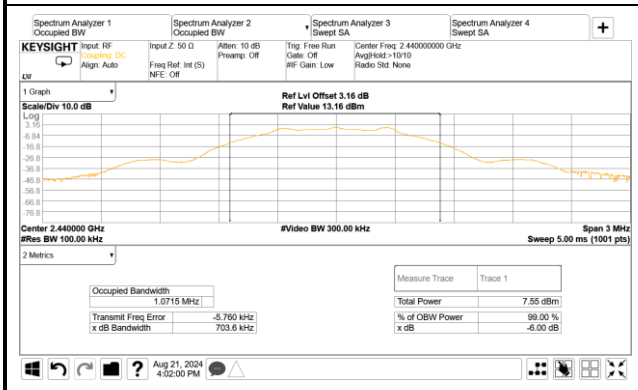
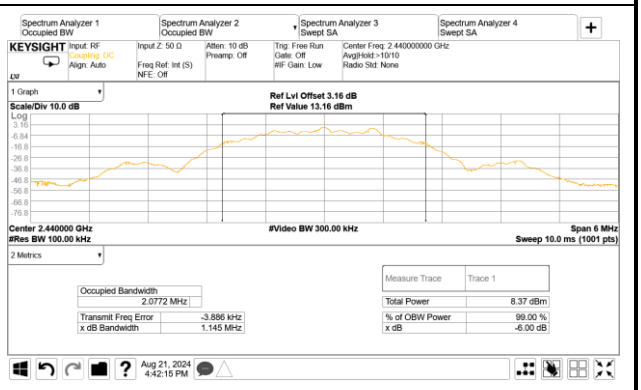
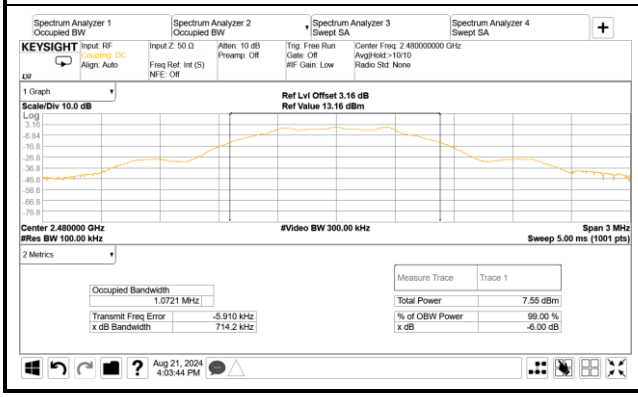
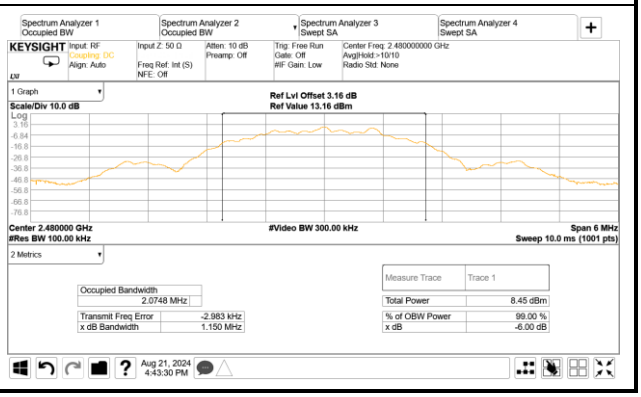
A.3.2 Measurement Plots

- 6dB

BLE	
1Mbps	2Mbps
	
	
	

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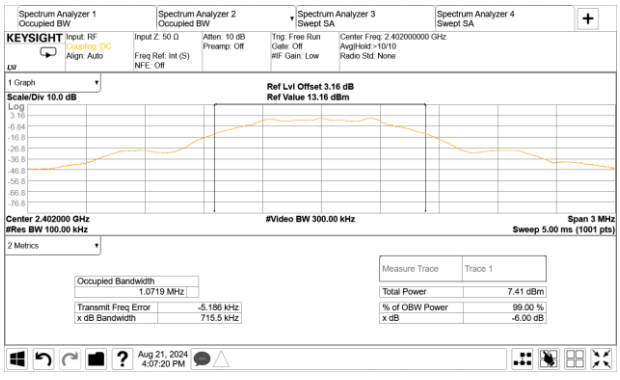
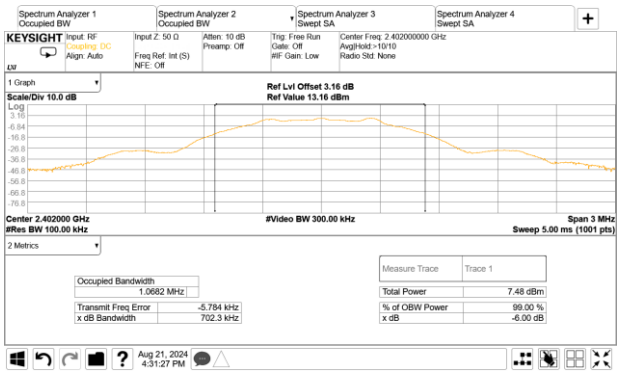
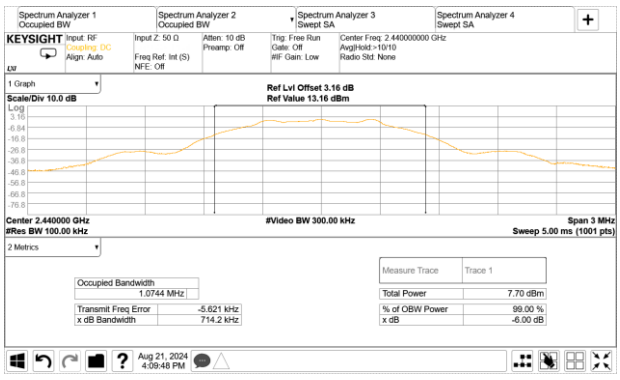
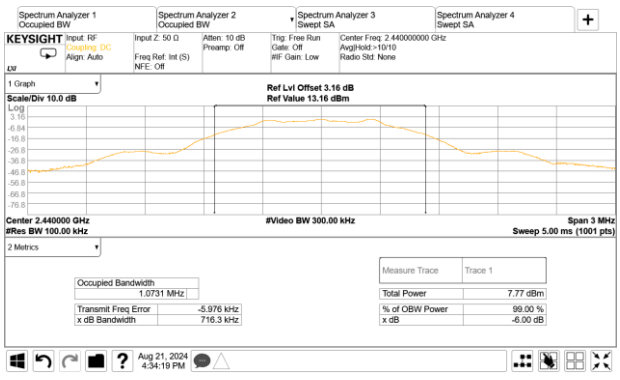
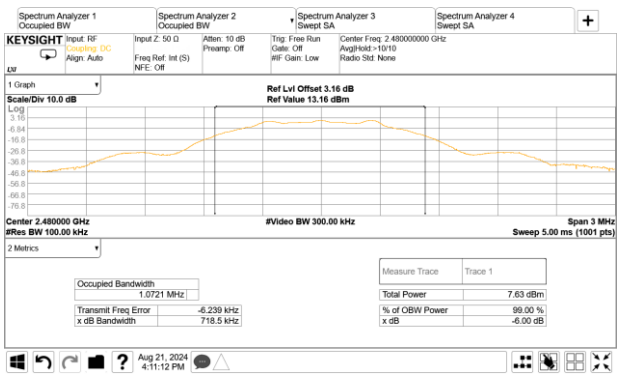
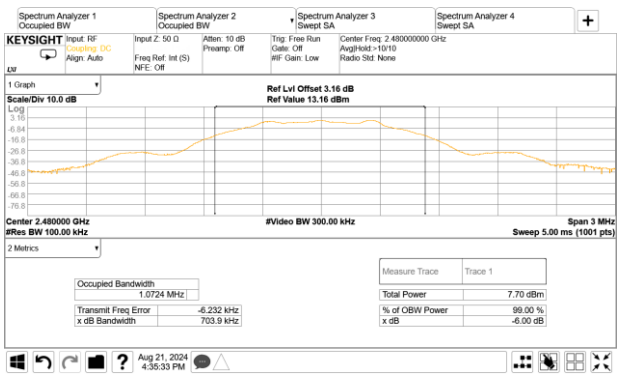
BLE	
PHY Coded S2	PHY Coded S8
	
	
	

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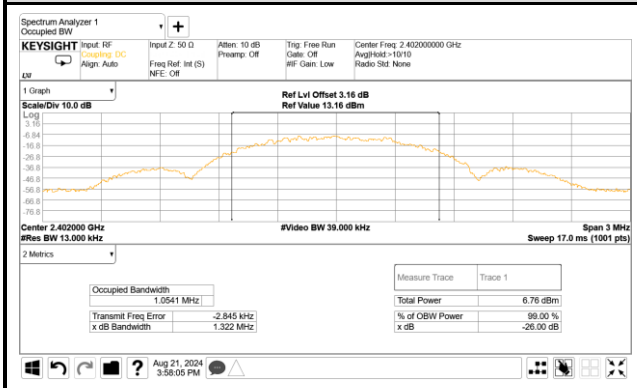
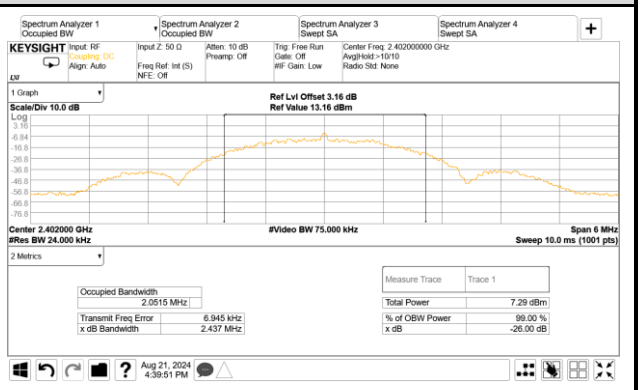
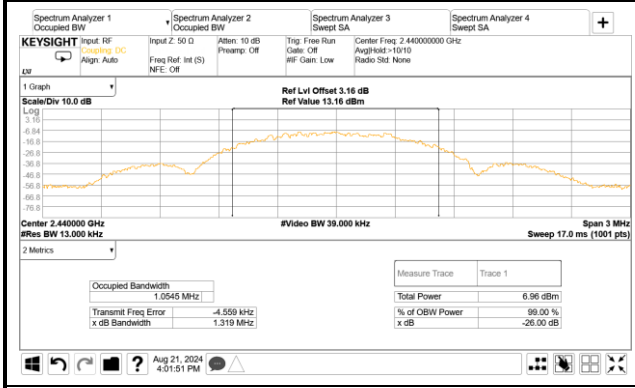
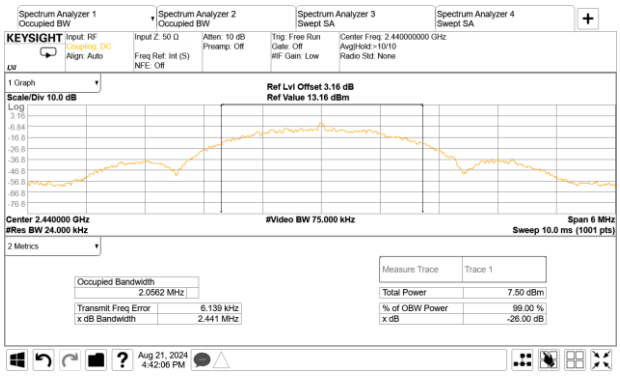
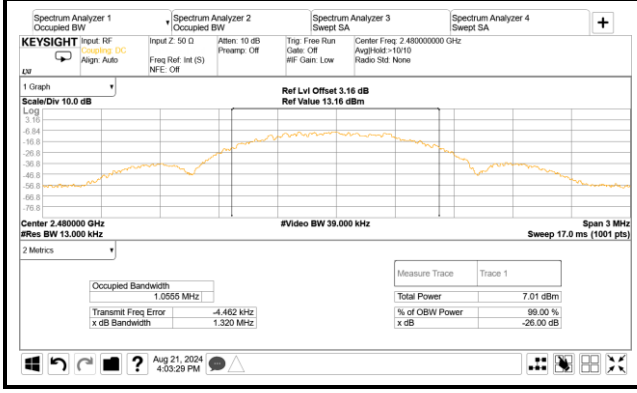
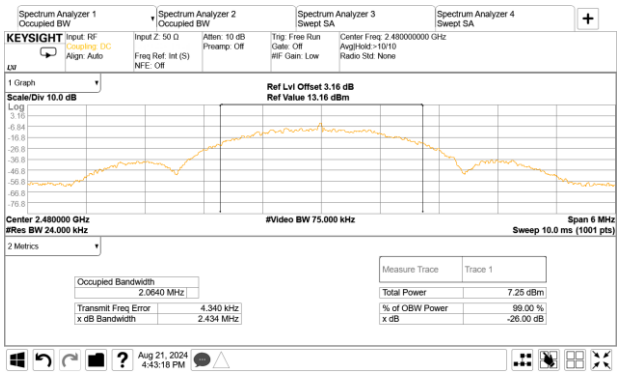
- 99%

BLE	
1Mbps	2Mbps
	
	
	

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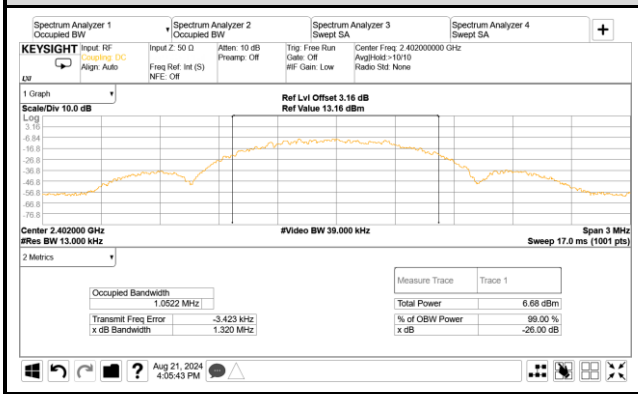
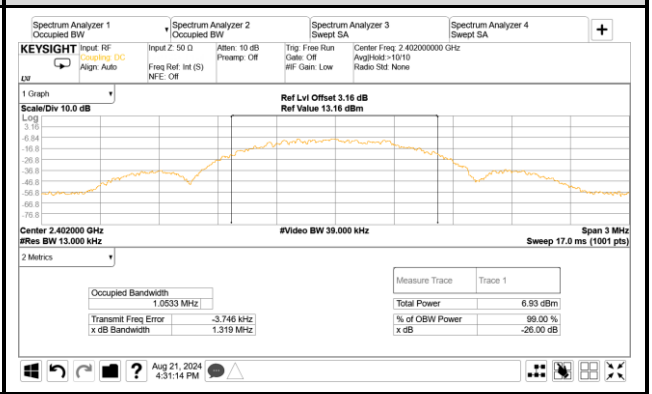
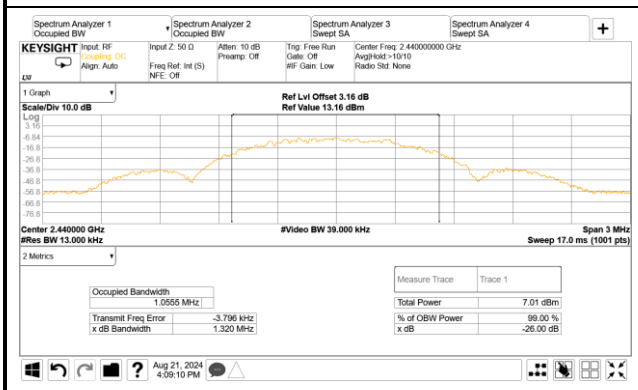
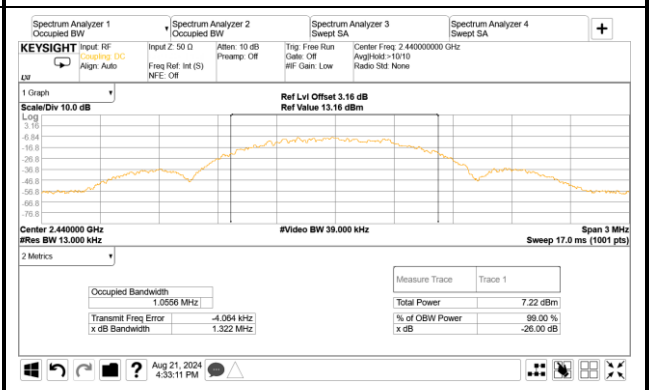
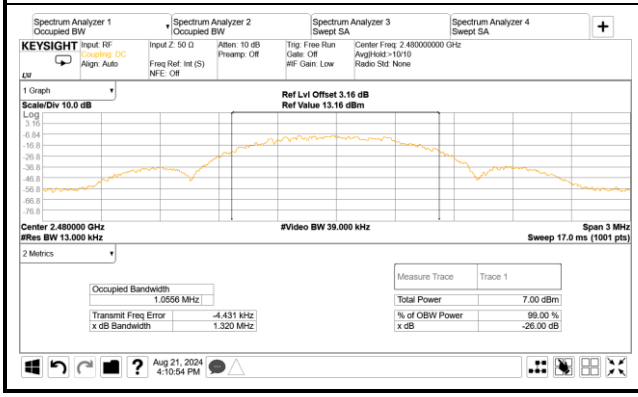
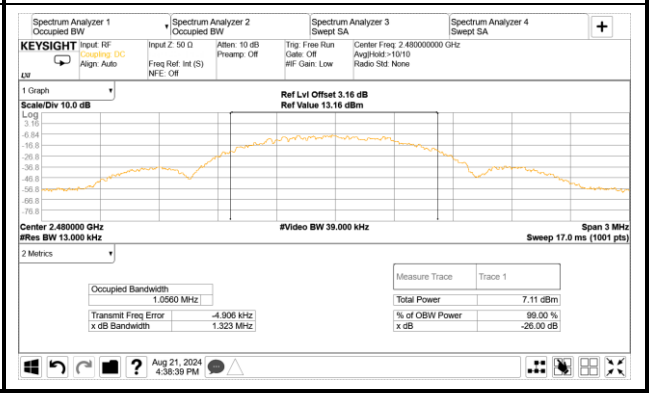
BLE	
PHY Coded S2	PHY Coded S8
	
	
	

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A.4 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/08/21	Temp./Hum.	23°C/49%
Cable Loss	3.16dB	Tested By	Ryan Chiang
Test Voltage	AC 120V/60Hz (Via AC Adapter)		

A.4.1 Peak Output Power

Mode	Centre Frequency (MHz)	Peak Output Power (dBm)	Limit
BLE (1Mbps)	2402	0.89	<30dBm
	2440	1.14	
	2480	1.07	
BLE (2Mbps)	2402	0.91	<30dBm
	2440	1.15	
	2480	1.08	
BLE (PHY Coded S2)	2402	0.89	<30dBm
	2440	1.14	
	2480	1.07	
BLE (PHY Coded S8)	2402	0.89	<30dBm
	2440	1.14	
	2480	1.07	

Note: The results have been included cable loss.

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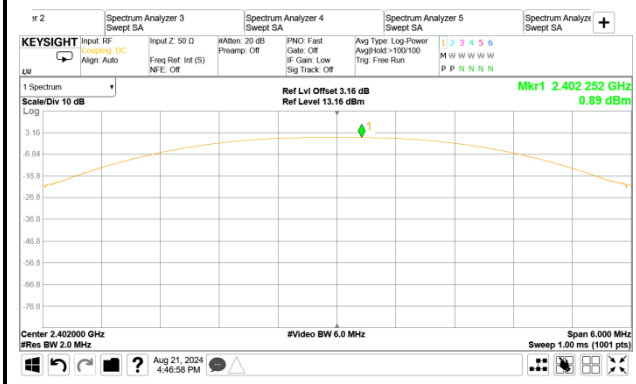
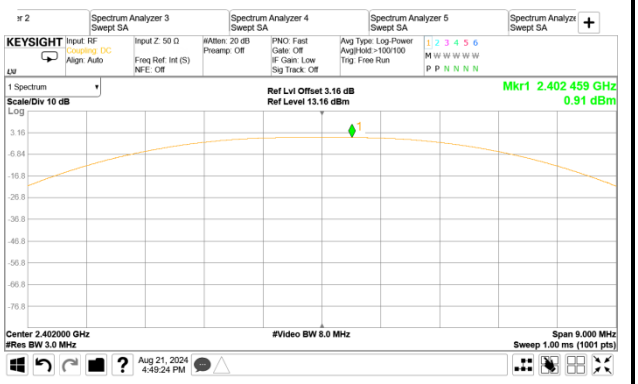
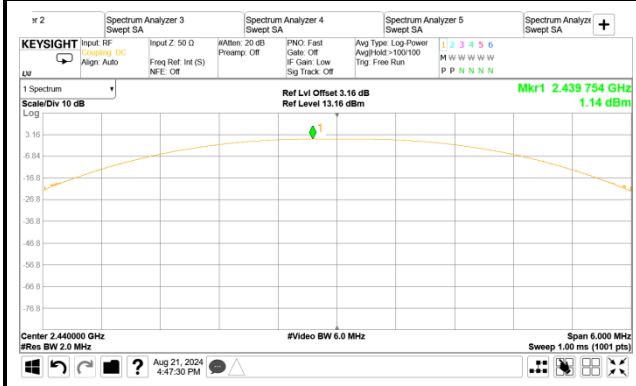
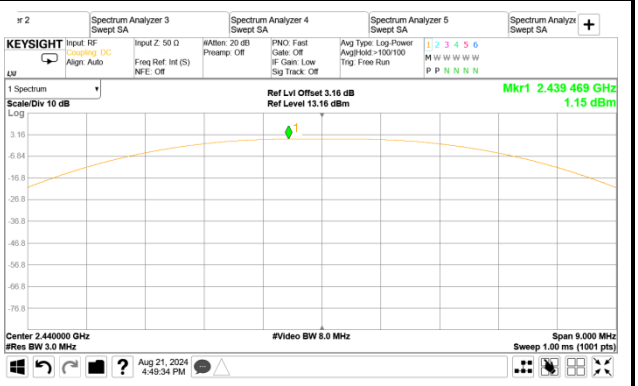
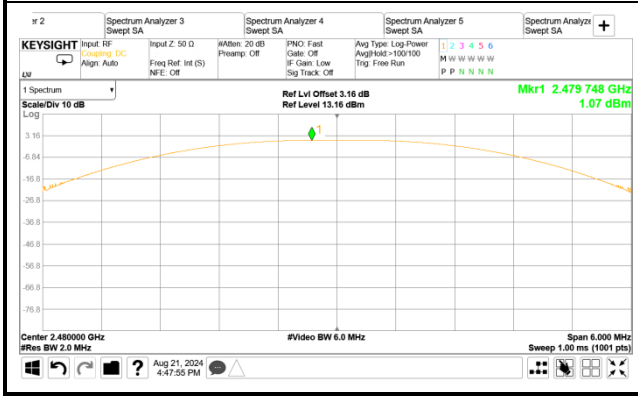
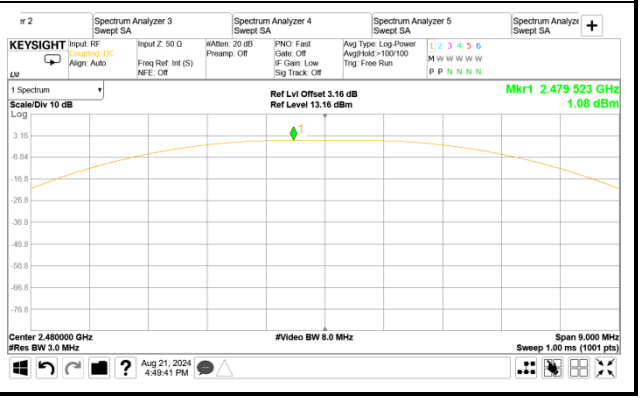
A.4.2 Measurement Plots

BLE	
1Mbps	2Mbps
	
	
	

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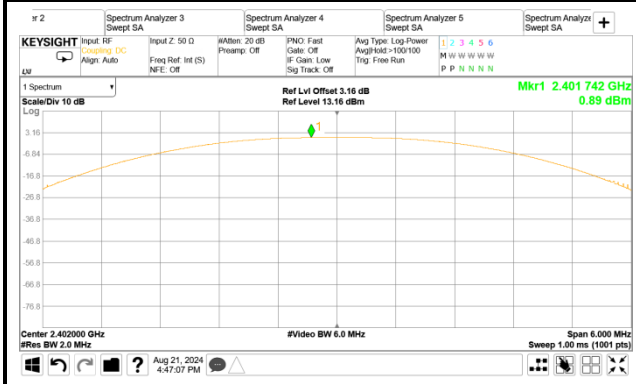
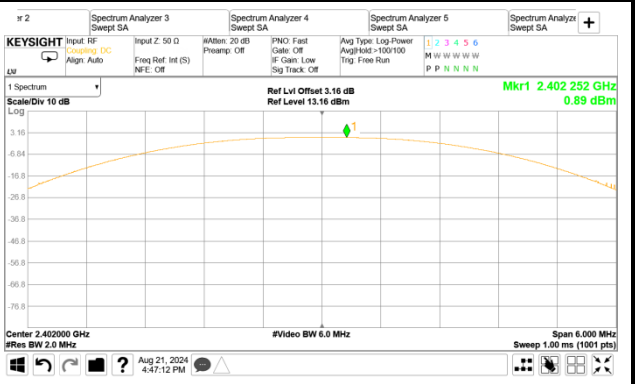
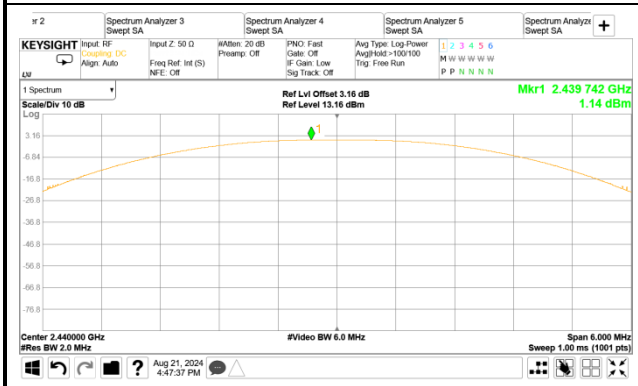
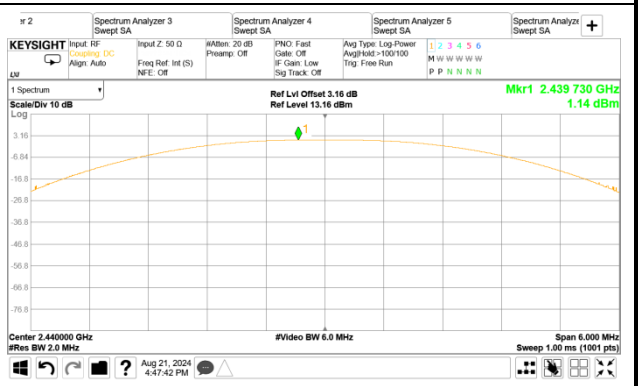
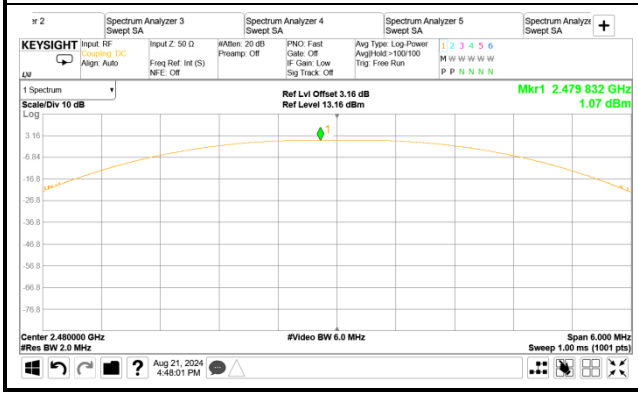
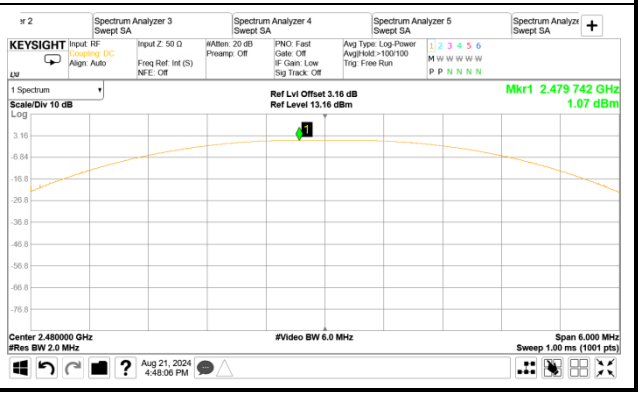
BLE	
PHY Coded S2	PHY Coded S8
	
	
	

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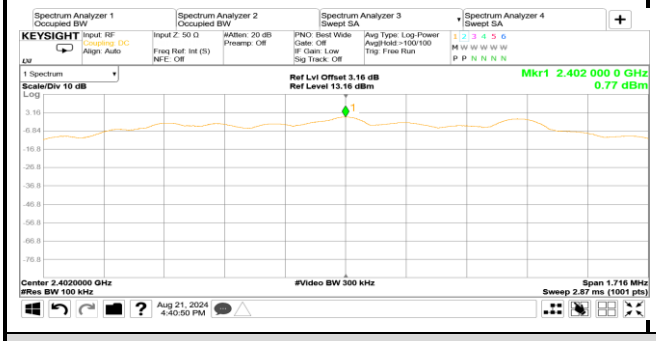
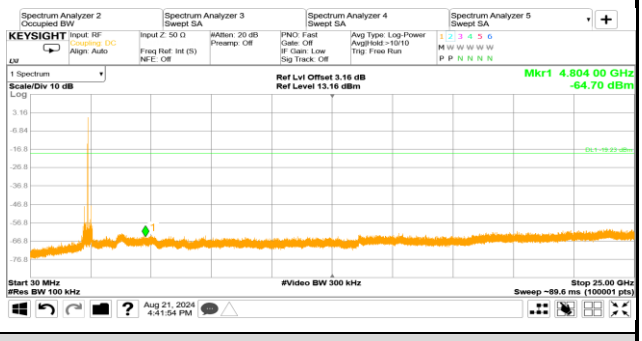
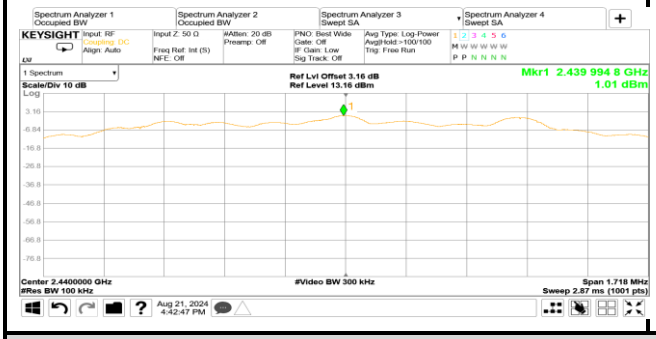
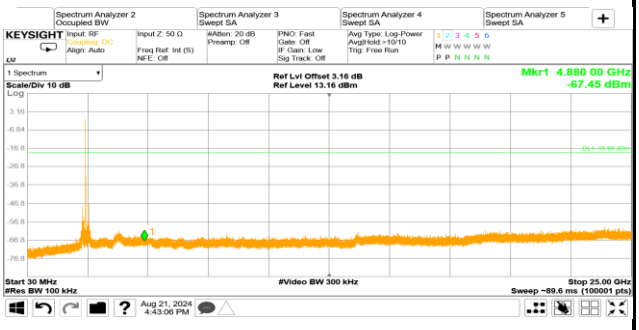
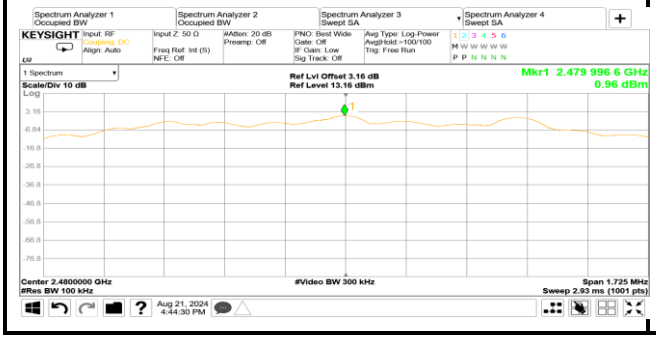
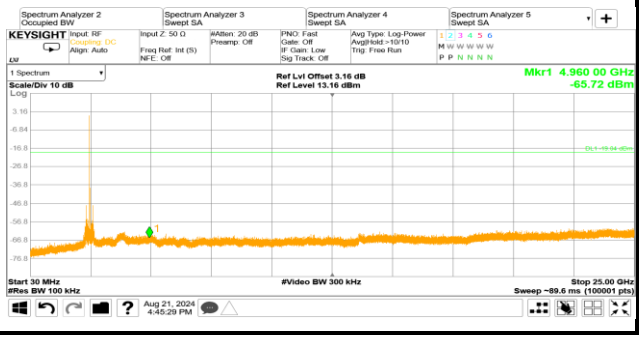
A.5 EMISSION LIMITATIONS

Test Date	2024/08/21	Temp./Hum.	23°C/49%
Cable Loss	3.16dB	Tested By	Ryan Chiang
Test Voltage	AC 120V/60Hz (Via AC Adapter)		

BLE	
2Mbps	
2402MHz	
Reference Level	30MHz – 25GHz
	
2440MHz	
Reference Level	30MHz – 25GHz
	
2480MHz	
Reference Level	30MHz – 25GHz
	

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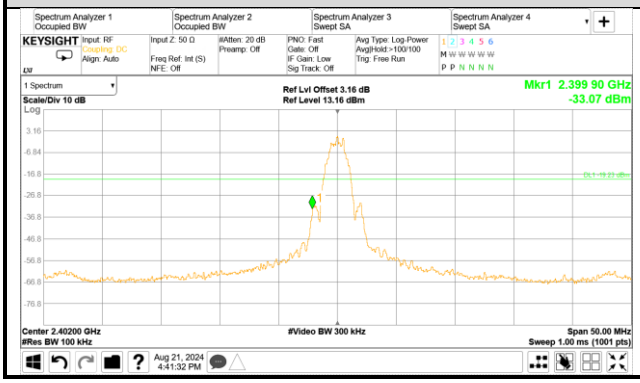
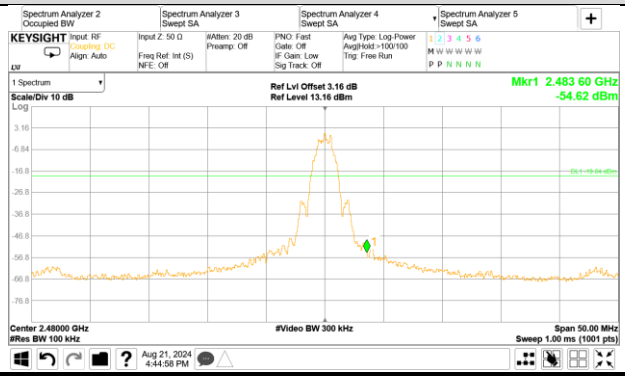
BLE	
2Mbps	
Band Edge	
TX 2402MHz	TX 2480MHz
	

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A.6 POWER SPECTRAL DENSITY

Test Date	2024/08/21	Temp./Hum.	23°C/49%
Cable Loss	3.16dB	Tested By	Ryan Chiang
Test Voltage	AC 120V/60Hz (Via AC Adapter)		

A.6.1 Power Spectral Density Result

Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
BLE (2Mbps)	2402	0.77	<8 dBm/3kHz
	2440	1.01	
	2480	0.96	

Note: 1. All results have been included cable loss and Simultaneous Factor.

2. For KDB558074 D01V04, in the test result, when RBW set at 100kHz is stricter than 3kHz.

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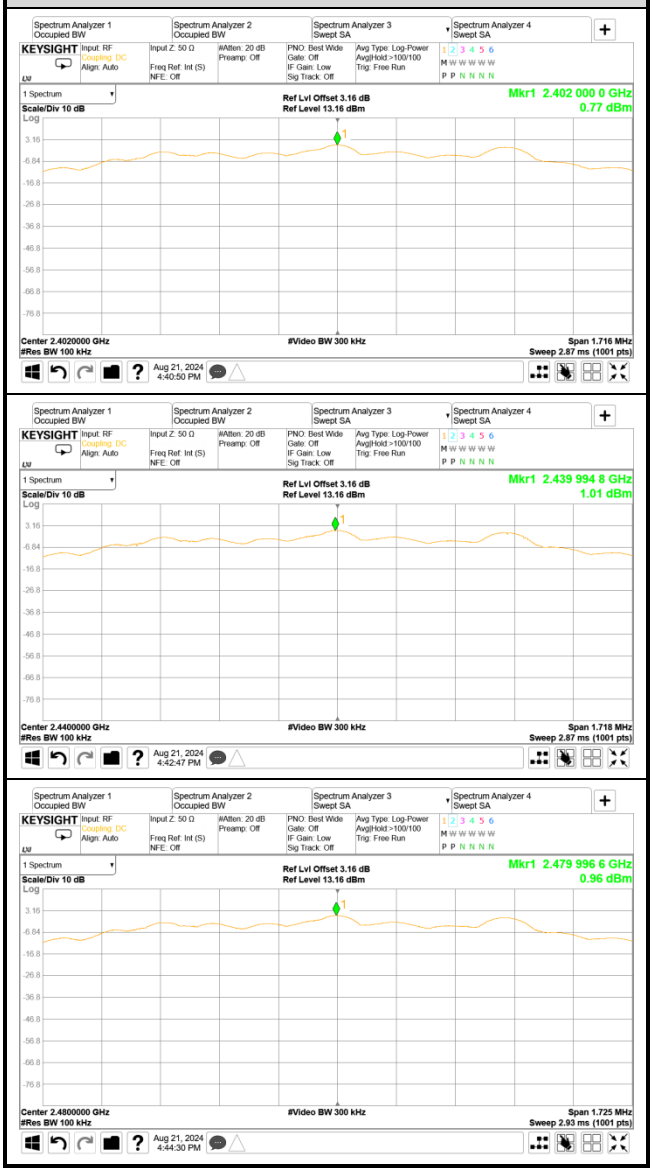
A.6.2 Measurement Plots

BLE
2Mbps



Note: All results have been included cable loss.

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APPENDIX B

TEST PHOTOGRAPHS

(Model: Pedal Receiver)