FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2321-3, XT2321-5

FCC ID : IHDT56AJ3

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

TEST DATE(S) : Dec. 23, 2022 ~ Jan. 13, 2023

We, Sporton International Inc. (Kunshan), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

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

JasonJia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 1 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

TABLE OF CONTENTS

RE	/ISIOI	N HISTORY	3
SUI	MMAR	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	5
	1.5	Modification of EUT	6
	1.6	Testing Location	6
	1.7	Test Software	6
	1.8	Applicable Standards	7
	1.9	Specification of Accessory	7
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1	Carrier Frequency Channel	8
	2.2	Test Mode	9
	2.3	Connection Diagram of Test System	10
	2.4	Support Unit used in test configuration and system	11
	2.5	EUT Operation Test Setup	11
	2.6	Measurement Results Explanation Example	11
3	TEST	RESULT	12
	3.1	6dB and 99% Bandwidth Measurement	12
	3.2	Output Power Measurement	13
	3.3	Power Spectral Density Measurement	16
	3.4	Conducted Band Edges and Spurious Emission Measurement	17
	3.5	Radiated Band Edges and Spurious Emission Measurement	18
	3.6	AC Conducted Emission Measurement	22
	3.7	Antenna Requirements	24
4	LIST	OF MEASURING EQUIPMENT	25
5	UNC	ERTAINTY OF EVALUATION	26
API	PEND	IX A. CONDUCTED TEST RESULTS	
API	PEND	IX B. AC CONDUCTED EMISSION TEST RESULT	
API	PEND	IX C. RADIATED SPURIOUS EMISSION	
API	PEND	IX D. RADIATED SPURIOUS EMISSION PLOTS	
API	PEND	IX E. DUTY CYCLE PLOTS	
API	PEND	IX F. SETUP PHOTOGRAPHS	

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 2 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR2D0913B	Rev. 01	Initial issue of report	Feb. 01, 2023

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 3 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report only	-
3.2	15.247(b)(3)	Peak Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	≤ 20dBc	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 8.94 dB at 192.96 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.00 dB at 0.192 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Remark: Not required means after assessing, test items are not necessary to carry out.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 4 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Mobile Cellular Phone			
Brand Name	Motorola			
Model Name	XT2321-3, XT2321-5			
FCC ID	IHDT56AJ3			
IMEI Code	Conducted: 358041760019911/358041760019929 Conduction: 358041760025975/358041760025983 Radiation: 358041760025512/358041760025520			
HW Version	DVT2			
SW Version	TTZ 33.50			
EUT Stage	Identical Prototype			

Report No.: FR2D0913B

Remark: The EUT has two working states, flip open state and flip close state, by verifying these two states, we choose the worst flip open state for all tests.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	40			
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)			
Maximum Output Power to Antenna	<pre><ant.4> BLE1Mbps: 9.72 dBm (0.0094 W) <ant.4> BLE2Mbps: 9.83 dBm (0.0096 W) <ant.5> BLE1Mbps: 7.33 dBm (0.0054 W) <ant.5> BLE2Mbps: 7.47 dBm (0.0056 W) <ant.4> BLE1Mbps: 1.027MHz</ant.4></ant.5></ant.5></ant.4></ant.4></pre>			
99% Occupied Bandwidth	<ant.4> BLE2Mbps: 2.014MHz <ant.5> BLE1Mbps: 1.019MHz <ant.5> BLE2Mbps: 2.01MHz</ant.5></ant.5></ant.4>			
Antenna Type / Gain	<ant.4> IFA Antenna type with gain -6.8 dBi <ant.5> IFA Antenna type with gain -2.5 dBi</ant.5></ant.4>			
Type of Modulation	Bluetooth LE : GFSK			

 Sporton International Inc. (Kunshan)
 Page Number
 : 5 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 01, 2023

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: IHDT56AJ3 Report Template No.: BU5-FR15CBT4.0 Version 2.0

1.5 Modification of EUT

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

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Report No.: FR2D0913B

Test Firm	Sporton International Inc. (Kunshan)				
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone				
Test Site Location	Jiangsu Province 215300 People's Republic of China				
lest Site Location	TEL: +86-512-57900158				
	FAX: +86-512-57900958				
	Sporton Site No.	FCC Designation No.	FCC Test Firm		
Test Site No.	Sporton Site No.	i CC Designation No.	Registration No.		
	CO01-KS TH01-KS	CN1257	314309		

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)				
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398				
	Sporton Site No.	FCC Designation No.	FCC Test Firm		
Test Site No.	Sporton Site No.	T CC Designation No.	Registration No.		
	03CH04-SZ	CN1256	421272		

Test data subcontracted: RSE test case in section 3.5 of this report,

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24

 Sporton International Inc. (Kunshan)
 Page Number
 : 6 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 01, 2023

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: IHDT56AJ3 Report Template No.: BU5-FR15CBT4.0 Version 2.0

1.8 Applicable Standards

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

Report No.: FR2D0913B

: 7 of 26

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, 2. recorded in a separate test report.

1.9 Specification of Accessory

Specification of Accessory					
AC Adapter	Brand Name	Motorola(Salom)	Model Name	MC-301	
Battery	Brand Name	Motorola(ATL)	Model Name	PM29	
USB Cable 1	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216	
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217	
USB Cable 3	Brand Name	Motorola(Saibao)	Model Name	SC18D86732	

Sporton International Inc. (Kunshan) Page Number TEL: +86-512-57900158 Report Issued Date: Feb. 01, 2023

FAX: +86-512-57900958 : Rev. 01 Report Version FCC ID: IHDT56AJ3 Report Template No.: BU5-FR15CBT4.0 Version 2.0

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (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
2400-2483.5 MHz	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	-	-

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 8 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

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: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane for Ant 4/ X plane for Ant 5) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

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

	Summary table of Test Cases						
Toot Itom	Data Rate / Modulation						
Test Item	Bluetooth – LE / GFSK						
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz						
	Mode 2: Bluetooth Tx CH19_2440 MHz						
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz						
Radiated	Mode 1: Bluetooth Tx CH00_2402 MHz						
	Mode 2: Bluetooth Tx CH19_2440 MHz						
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz						
AC							
Conducted	Mode 1: BT Link + WLAN Link(2.4G) + USB Cable (3)(Charging From Adaptor)						
Emission							
Remark: For	Radiated Test Cases, The tests were performance with Adapter and USB Cable 1						

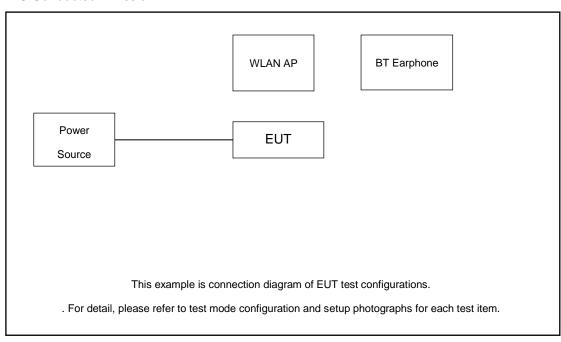
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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 9 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

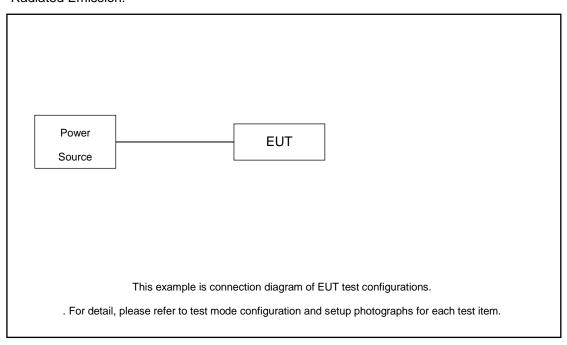
Report No.: FR2D0913B

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 10 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
		lotebook Lenovo	V130-15IKB005	N/A		shielded cable
2.	Notebook					DC O/P 1.8m ,
2.						Unshielded AC
						I/P cable 1.8m
3.	Bluetooth	Langua	LDHOO	NI/A	NI/A	NI/A
	Earphone	Lenovo	LBH308	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 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 2.89 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 2.89 + 10 = 12.89 (dB)

FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 11 of 26
Report Issued Date : Feb. 01, 2023

Report No.: FR2D0913B

Report Version : Rev. 01

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.

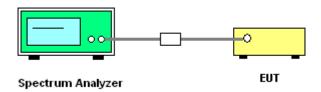
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 11.8
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT 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 6 dB bandwidth must be greater than 500 kHz.
- 5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the 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.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 12 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

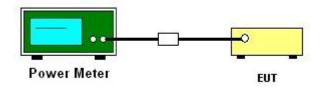
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

- The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1
 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 13 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

3.2.5 Test Result of Peak Output Power

<Ant.4>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	8.61	30.00	-6.80	1.81	36.00	Pass
BLE	1Mbps	1	19	2440	9.72	30.00	-6.80	2.92	36.00	Pass
BLE	1Mbps	1	39	2480	7.55	30.00	-6.80	0.75	36.00	Pass

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	8.71	30.00	-6.80	1.91	36.00	Pass
BLE	2Mbps	1	19	2440	9.83	30.00	-6.80	3.03	36.00	Pass
BLE	2Mbps	1	39	2480	7.64	30.00	-6.80	0.84	36.00	Pass

<Ant.5>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	6.79	30.00	-2.50	4.29	36.00	Pass
BLE	1Mbps	1	19	2440	7.33	30.00	-2.50	4.83	36.00	Pass
BLE	1Mbps	1	39	2480	5.17	30.00	-2.50	2.67	36.00	Pass

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	6.92	30.00	-2.50	4.42	36.00	Pass
BLE	2Mbps	1	19	2440	7.47	30.00	-2.50	4.97	36.00	Pass
BLE	2Mbps	1	39	2480	5.27	30.00	-2.50	2.77	36.00	Pass

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 14 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

3.2.6 Test Result of Average Output Power (Reporting Only)

<Ant.4>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.08	8.51
BLE	1Mbps	1	19	2440	2.08	9.59
BLE	1Mbps	1	39	2480	2.08	7.36

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	4.87	8.60
BLE	2Mbps	1	19	2440	4.87	9.71
BLE	2Mbps	1	39	2480	4.87	7.43

<Ant.5>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	1Mbps	1	0	2402	2.07	6.68
BLE	1Mbps	1	19	2440	2.07	7.25
BLE	1Mbps	1	39	2480	2.07	5.02

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
BLE	2Mbps	1	0	2402	4.89	6.75
BLE	2Mbps	1	19	2440	4.89	7.33
BLE	2Mbps	1	39	2480	4.89	5.07

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 15 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

- The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT 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. (6dB 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)/ 100kHz is a reference level and used as 20dBc 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.

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 16 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

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 20 dB down from the highest emission level within the authorized band.

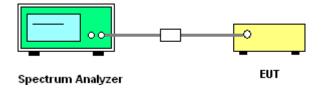
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

- 1. The testing follows ANSI C63.10-2013 clause 11.13
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT 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.

Sporton International Inc. (Kunshan) Page Number TEL: +86-512-57900158 FAX: +86-512-57900958

FCC ID: IHDT56AJ3

: 17 of 26 Report Issued Date: Feb. 01, 2023 Report Version : Rev. 01

Report Template No.: BU5-FR15CBT4.0 Version 2.0

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 output power of this device was measured by spectrum analyzer, the attenuation under this paragraph 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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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

The section 4.0 of List of Measuring Equipment of this test report is used for test.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 18 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

3.5.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
- 2. The EUT was 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.

Report No.: FR2D0913B

- 3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 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 ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \ge 1$ GHz for peak measurement. For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 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.

 Sporton International Inc. (Kunshan)
 Page Number
 : 19 of 26

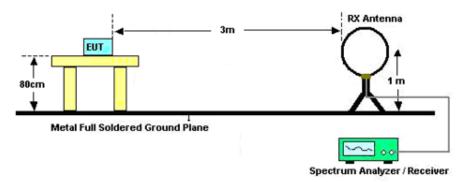
 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 01, 2023

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

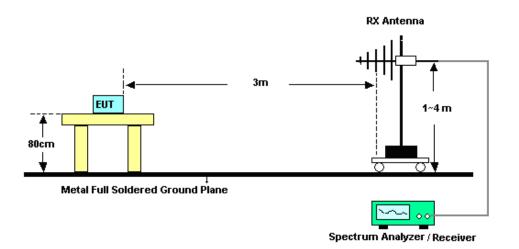
FCC ID: IHDT56AJ3 Report Template No.: BU5-FR15CBT4.0 Version 2.0

3.5.4 Test Setup

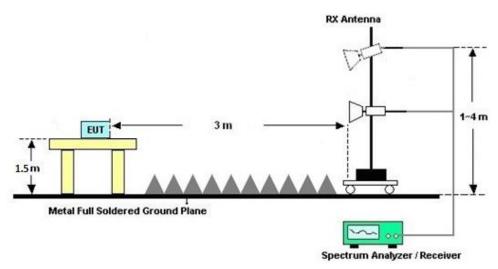
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 20 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

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

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

Report No.: FR2D0913B

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C&D.

 Sporton International Inc. (Kunshan)
 Page Number
 : 21 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 01, 2023

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: IHDT56AJ3 Report Template No.: BU5-FR15CBT4.0 Version 2.0

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Report No.: FR2D0913B

Eroquency of emission (MUz)	Conducted limit (dBμV)				
Frequency of emission (MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*}Decreases with the logarithm of the frequency.

3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

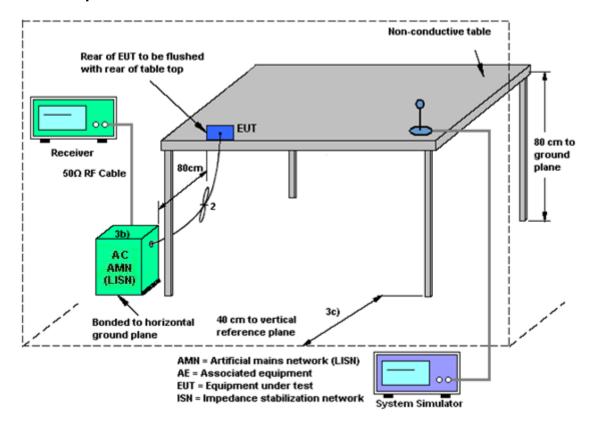
 Sporton International Inc. (Kunshan)
 Page Number
 : 22 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 01, 2023

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: IHDT56AJ3 Report Template No.: BU5-FR15CBT4.0 Version 2.0

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 23 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 24 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report Template No.: BU5-FR15CBT4.0 Version 2.0

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Jan. 13, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Jan. 13, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Jan. 13, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Jan. 13, 2023	Oct. 11, 2023	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	Dec. 27, 2022~ Jan. 06, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Jul. 07, 2022	Dec. 27, 2022~ Jan. 06, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Dec. 27, 2022~ Jan. 06, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Apr. 27, 2022	Dec. 27, 2022~ Jan. 06, 2023	Apr. 27, 2023	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-147 4	1GHz~18GHz	Jul. 07, 2022	Dec. 27, 2022~ Jan. 06, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	9170#679	15GHz~40GHz	Jul. 07, 2022	Dec. 27, 2022~ Jan. 06, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Dec. 27, 2022~ Jan. 06, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 19, 2022	Dec. 27, 2022~ Jan. 06, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 06, 2022	Dec. 27, 2022~ Jan. 06, 2023	Jul. 05, 2023	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY572801 36	500MHz~26.5G Hz	Sep. 30, 2022	Dec. 27, 2022~ Jan. 06, 2023	Sep. 29, 2023	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F11905001 9	N/A	Nov. 10, 2022	Dec. 27, 2022~ Jan. 06, 2023	Nov. 10, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 27, 2022~ Jan. 06, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 27, 2022~ Jan. 06, 2023	NCR	Radiation (03CH04-SZ)
Thermo meter	Anymetre	JR593	#12	- 10℃ ~ 50℃ 10%RH ~99%RH	Dec. 31, 2021	Dec. 27, 2022~	Dec. 30, 2022	Radiation (03CH04-SZ)
Thermo meter	Anymetre	JR593	#12	- 10℃ ~ 50℃ 10%RH ~99%RH	Dec. 30, 2022	Jan. 06, 2023	Dec. 29, 2023	Radiation (03CH04-SZ)
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	May 25, 2022	Dec. 23, 2022	May 24, 2023	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Dec. 23, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 05, 2022	Dec. 23, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Oct. 12, 2022	Dec. 23, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	1339163	300MHz~40GH z	Oct. 12, 2022	Dec. 23, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Mar. 02, 2022	Dec. 23, 2022	Mar. 01, 2023	Conducted (TH01-KS)

NCR: No Calibration Required

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3 Page Number : 25 of 26
Report Issued Date : Feb. 01, 2023
Report Version : Rev. 01

Report No.: FR2D0913B

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Report No.: FR2D0913B

Uncertainty of Conducted Measurement

Test Item	Uncertainty			
Conducted Power	±0.46 dB			
Conducted Emissions	±0.48 dB			
Occupied Channel Bandwidth	±0.001 %			
Conducted Power Spectral Density	±0.40 dB			

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2.78 dB
of 95% (U = 2Uc(y))	2.70 db

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

Measuring Uncertainty for a Level of Confidence	E.AID
of 95% (U = 2Uc(y))	5.1 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

	
Measuring Uncertainty for a Level of Confidence	4.8 dB
of 95% (U = 2Uc(y))	4.0 UD

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 dB

----- THE END -----

 Sporton International Inc. (Kunshan)
 Page Number
 : 26 of 26

 TEL: +86-512-57900158
 Report Issued Date
 : Feb. 01, 2023

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: IHDT56AJ3 Report Template No.: BU5-FR15CBT4.0 Version 2.0

Appendix A. Conducted Test Results

Sporton International Inc. (Kunshan)

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3



Ambient Condition: 25 ℃, 45 %RH

According Standard: ■Part15C

Test Date: 2022/12/23 Test Engineer: Long Wu

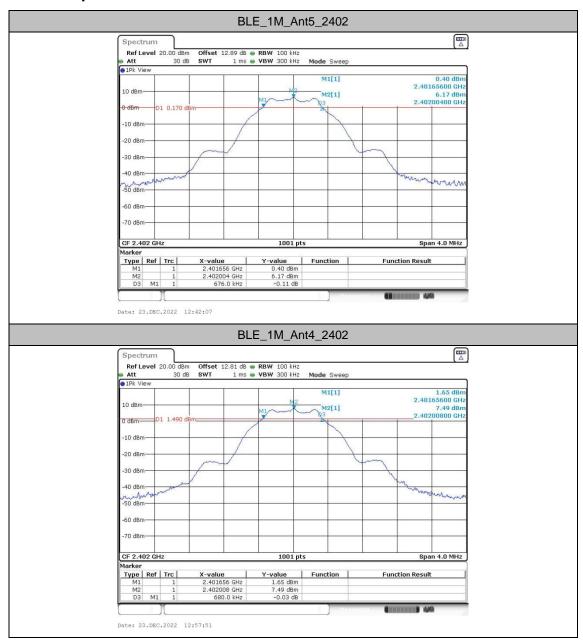
DTS Bandwidth

Test Result

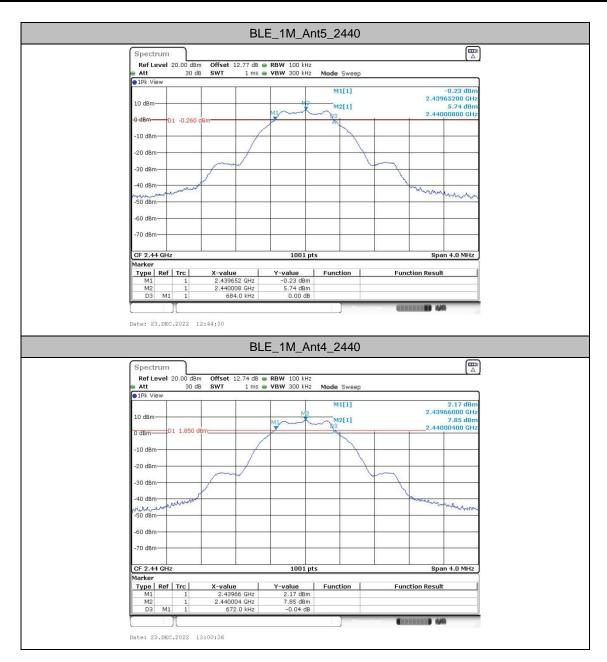
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant5	2402	0.68	2401.66	2402.33	0.5	PASS
	Ant4	2402	0.68	2401.66	2402.34	0.5	PASS
	Ant5	2440	0.68	2439.65	2440.34	0.5	PASS
	Ant4	2440	0.67	2439.66	2440.33	0.5	PASS
	Ant5	2480	0.68	2479.66	2480.33	0.5	PASS
	Ant4	2480	0.68	2479.66	2480.34	0.5	PASS
BLE_2M	Ant5	2402	1.16	2401.42	2402.58	0.5	PASS
	Ant4	2402	1.15	2401.43	2402.58	0.5	PASS
	Ant5	2440	1.16	2439.42	2440.58	0.5	PASS
	Ant4	2440	1.16	2439.43	2440.58	0.5	PASS
	Ant5	2480	1.16	2479.42	2480.58	0.5	PASS
	Ant4	2480	1.16	2479.42	2480.58	0.5	PASS

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3

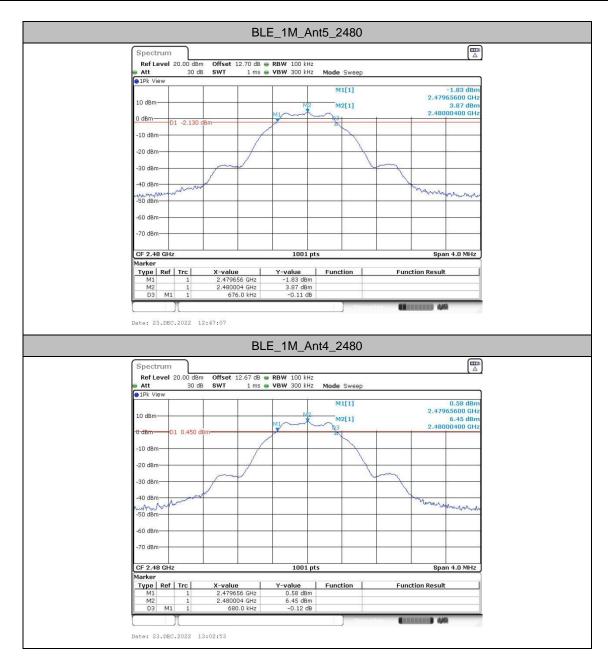
Test Graphs



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3

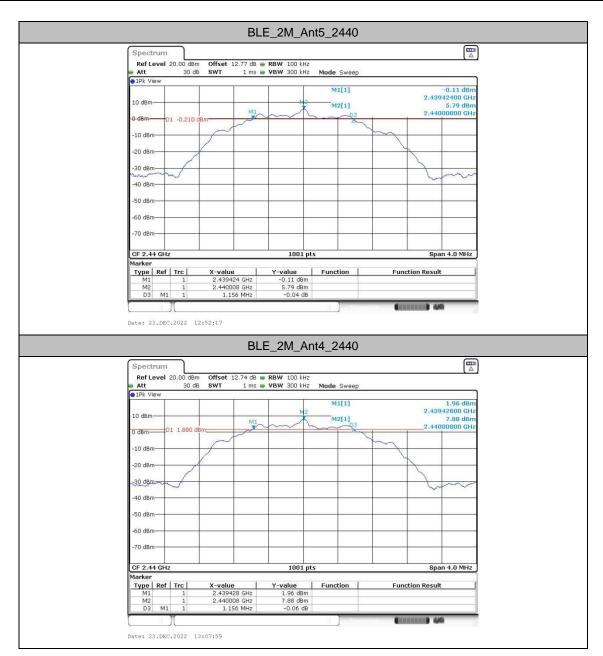


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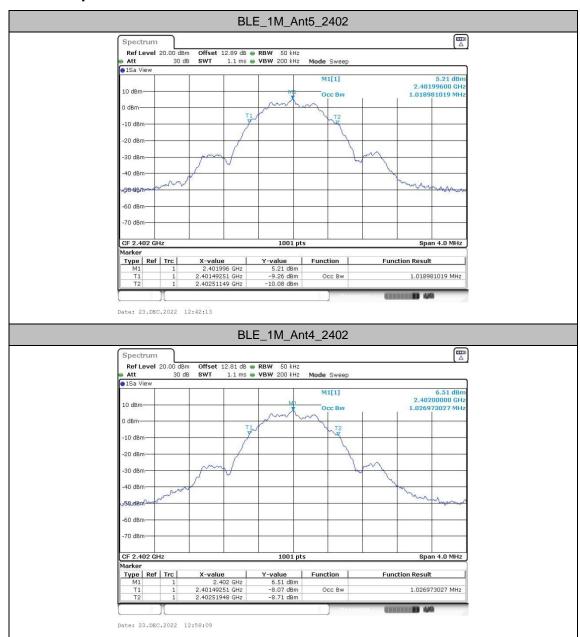
Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant5	2402	1.019	2401.4925	2402.5115		
	Ant4	2402	1.027	2401.4925	2402.5195		
	Ant5	2440	1.019	2439.4925	2440.5115		
	Ant4	2440	1.019	2439.4965	2440.5155		
	Ant5	2480	1.019	2479.4925	2480.5115		
	Ant4	2480	1.015	2479.4965	2480.5115		
BLE_2M	Ant5	2402	2.01	2401.0090	2403.0190		
	Ant4	2402	2.014	2401.0090	2403.0230		
	Ant5	2440	2.01	2439.0090	2441.0190		
	Ant4	2440	2.014	2439.0090	2441.0230		
	Ant5	2480	2.01	2479.0050	2481.0150		
	Ant4	2480	2.01	2479.0050	2481.0150		

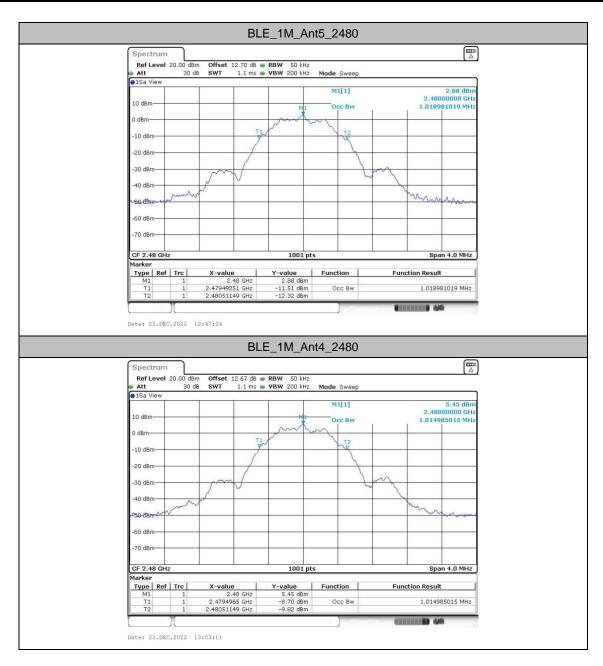
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3

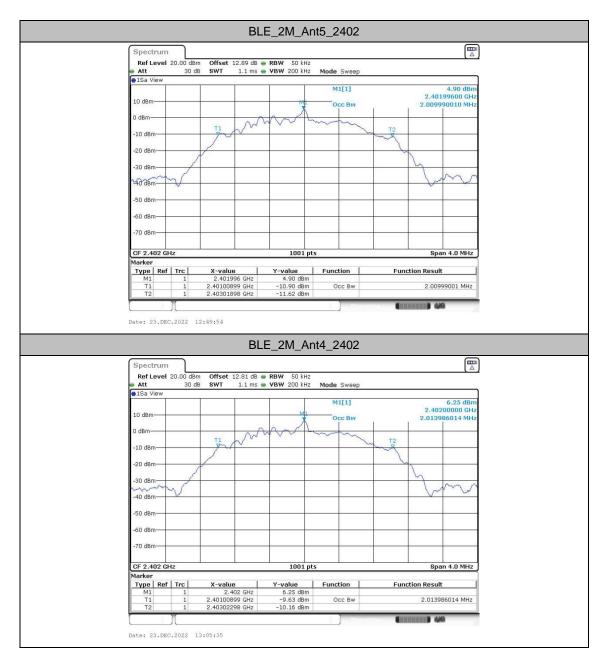
Test Graphs



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3











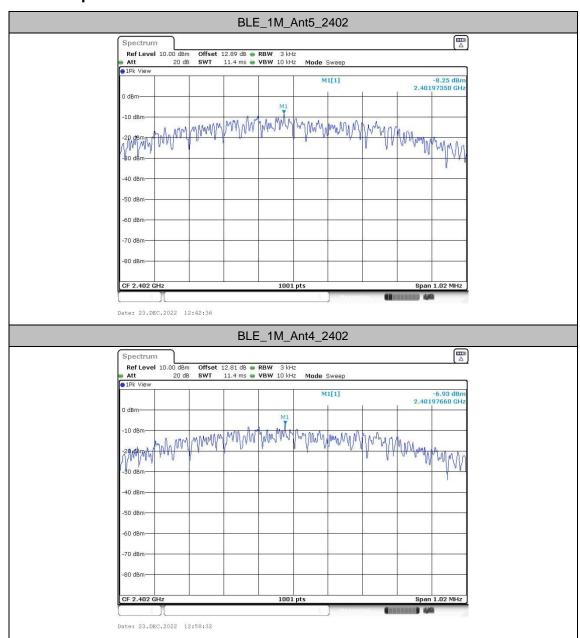
Maximum power spectral density

Test Result

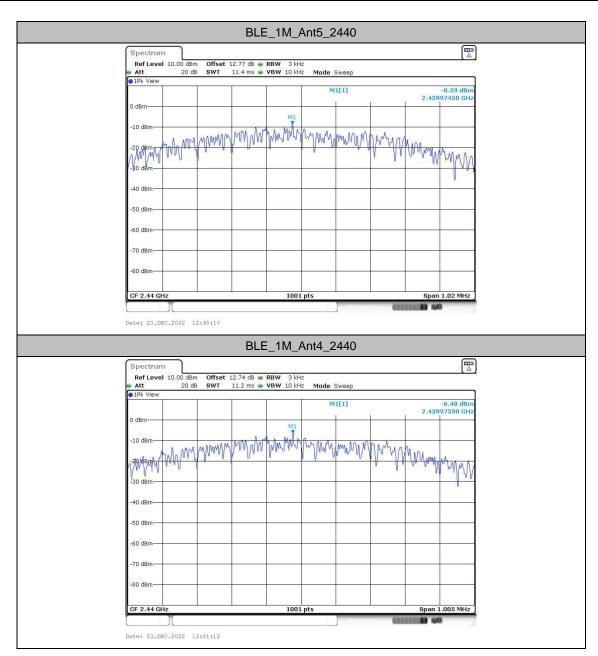
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant5	2402	-8.25	≤8.00	PASS
	Ant4	2402	-6.93	≤8.00	PASS
	Ant5	2440	-8.59	≤8.00	PASS
	Ant4	2440	-6.48	≤8.00	PASS
	Ant5	2480	-10.47	≤8.00	PASS
	Ant4	2480	-7.93	≤8.00	PASS
	Ant5	2402	-11.17	≤8.00	PASS
	Ant4	2402	-9.83	≤8.00	PASS
DIE OM	Ant5	2440	-11.46	≤8.00	PASS
BLE_2M	Ant4	2440	-9.42	≤8.00	PASS
	Ant5	2480	-13.37	≤8.00	PASS
	Ant4	2480	-10.86	≤8.00	PASS

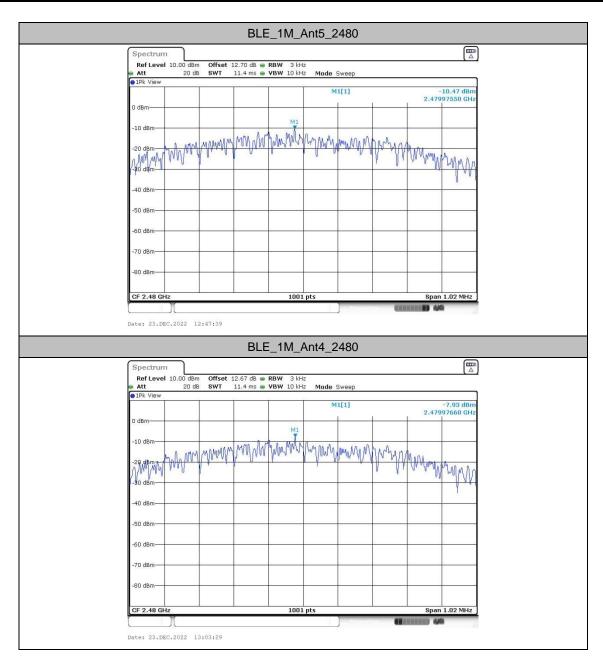
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3

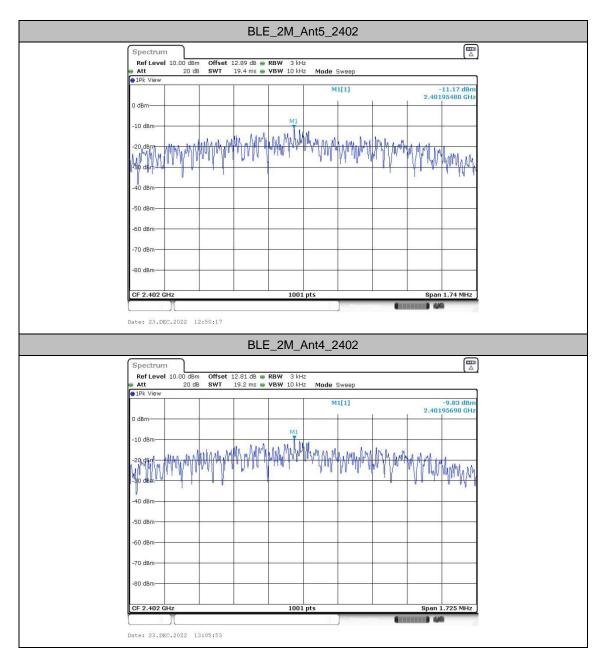
Test Graphs

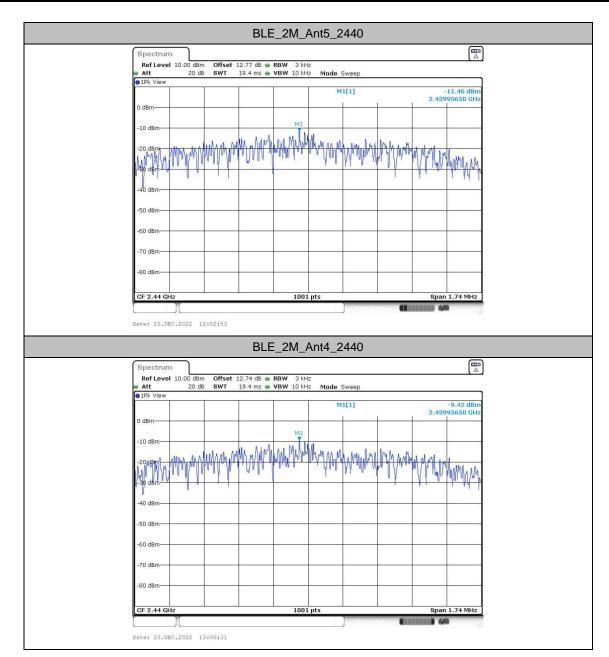


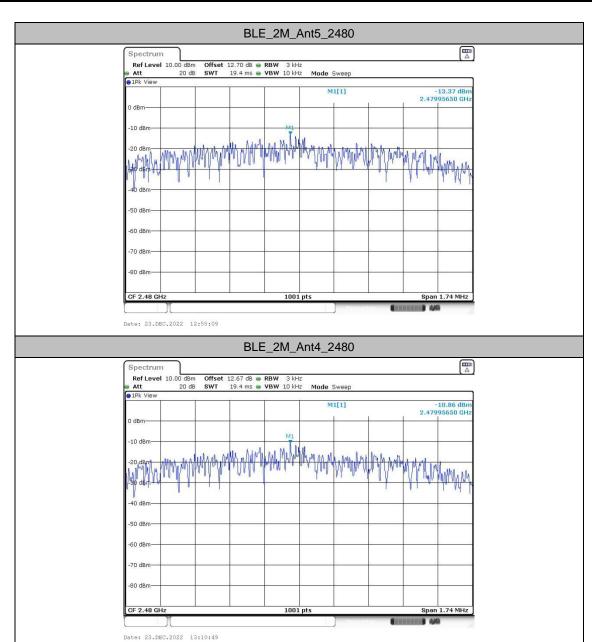
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3











Reference level measurement

Test Result

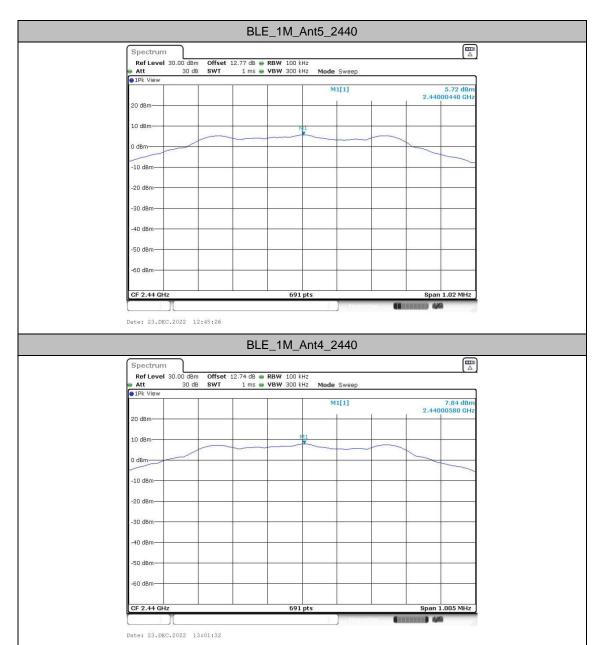
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm/100KHz]
BLE_1M	Ant5	2402	2402.00	6.14
	Ant4	2402	2402.01	7.48
	Ant5	2440	2440.00	5.72
	Ant4	2440	2440.01	7.84
	Ant5	2480	2480.01	3.82
	Ant4	2480	2480.01	6.41
	Ant5	2402	2402.01	6.16
	Ant4	2402	2402.01	7.52
DIE OM	Ant5	2440	2440.01	5.76
BLE_2M	Ant4	2440	2440.01	7.85
	Ant5	2480	2480.01	3.91
	Ant4	2480	2480.01	6.41

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3

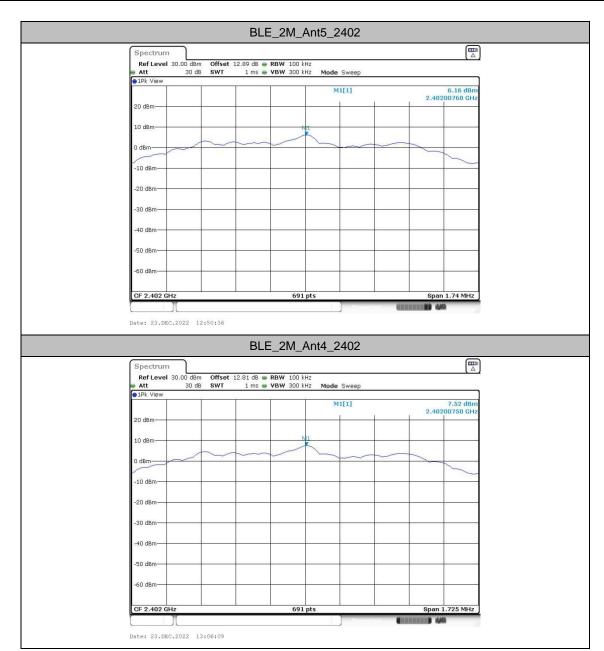
Test Graphs

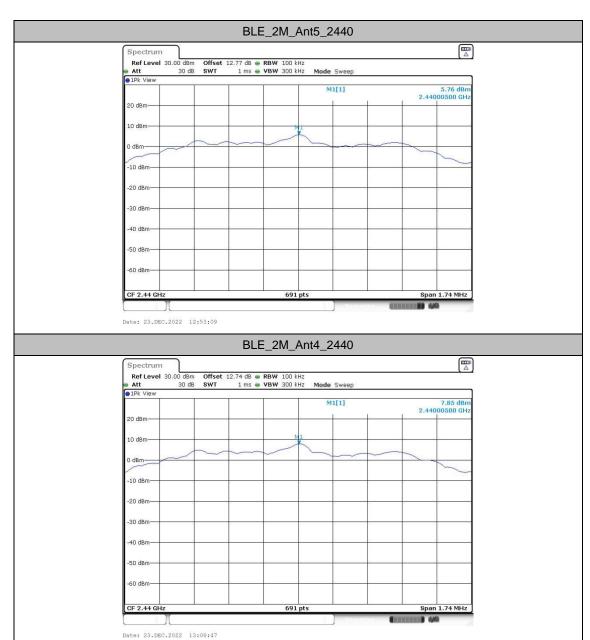


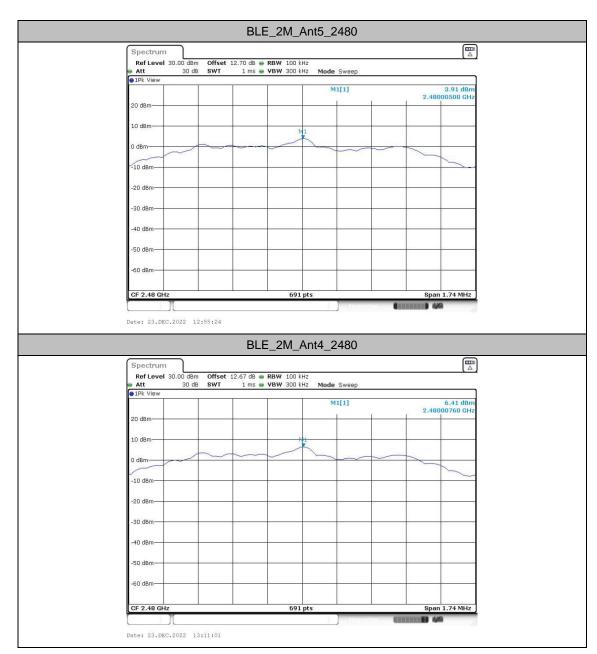
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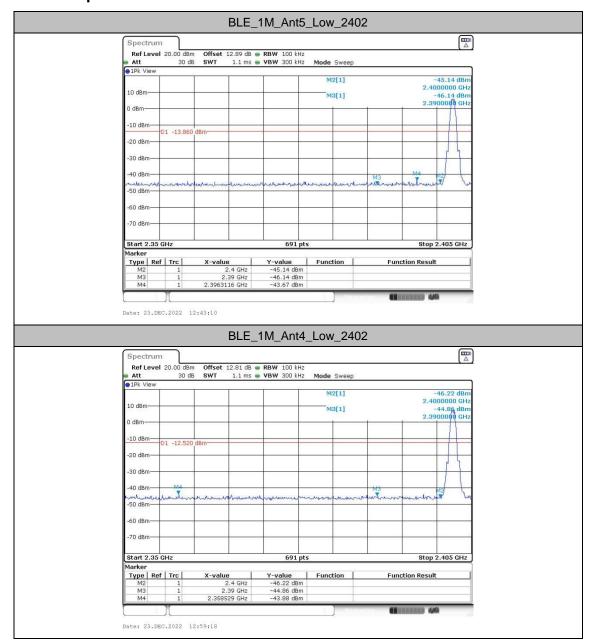
Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq	RefLevel	Result	Limit	Verdict	
			(MHz)	[dBm/100KHz]	[dBm/100KHz]	[dBm/100KHz]		
BLE_1M	Ant5	Low	2402	6.14	-43.67	≤-13.86	PASS	
	Ant4	Low	2402	7.48	-43.88	≤-12.52	PASS	
	Ant5	High	2480	3.82	-43.69	≤-16.18	PASS	
	Ant4	High	2480	6.41	-43.29	≤-13.59	PASS	
BLE_2M	Ant5	Low	2402	6.16	-33.34	≤-13.84	PASS	
	Ant4	Low	2402	7.52	-30.59	≤-12.48	PASS	
	Ant5	High	2480	3.91	-43.58	≤-16.09	PASS	
	Ant4	High	2480	6.41	-43.42	≤-13.59	PASS	

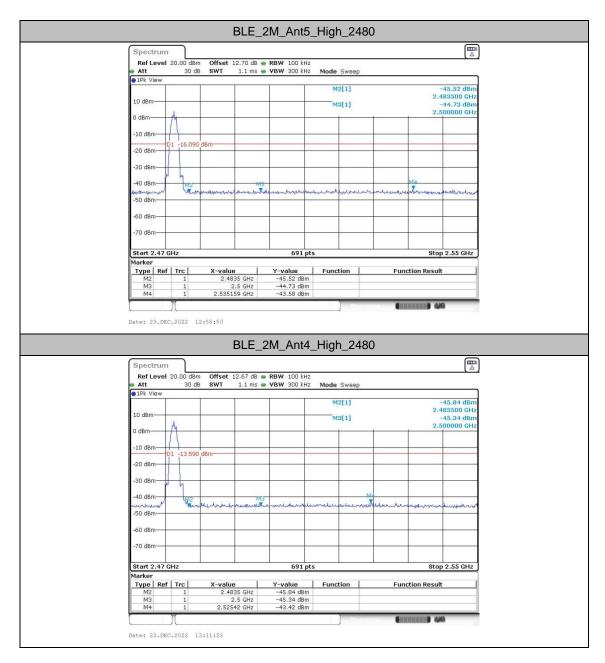
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Test Graphs









Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange	RefLevel	Result	Limit	Verdict
			[MHz]	[dBm/100KHz]	[dBm/100KHz]	[dBm/100KHz]	
	Ant5	2402	30~1000	6.14	-55.15	≤-13.86	PASS
			1000~26500	6.14	-46.45	≤-13.86	PASS
	Ant4	2402	30~1000	7.48	-54.66	≤-12.52	PASS
			1000~26500	7.48	-46.38	≤-12.52	PASS
	Ant5	2440	30~1000	5.72	-55.61	≤-14.28	PASS
DIE 4M			1000~26500	5.72	-45.67	≤-14.28	PASS
BLE_1M	Ant4	2440	30~1000	7.84	-55.12	≤-12.16	PASS
			1000~26500	7.84	-46.96	≤-12.16	PASS
	Ant5	2480	30~1000	3.82	-55.28	≤-16.18	PASS
	Anto		1000~26500	3.82	-46.73	≤-16.18	PASS
	Ant4	2480	30~1000	6.41	-55.07	≤-13.59	PASS
			1000~26500	6.41	-46.35	≤-13.59	PASS
BLE_2M	Ant5	2402	30~1000	6.16	-55.26	≤-13.84	PASS
			1000~26500	6.16	-46.33	≤-13.84	PASS
	Ant4	2402	30~1000	7.52	-54.92	≤-12.48	PASS
			1000~26500	7.52	-46.35	≤-12.48	PASS
	Ant5	2440	30~1000	5.76	-55.12	≤-14.24	PASS
			1000~26500	5.76	-46.95	≤-14.24	PASS
	Ant4	2440	30~1000	7.85	-54.85	≤-12.15	PASS
			1000~26500	7.85	-46.68	≤-12.15	PASS
	Ant5	2480	30~1000	3.91	-55.67	≤-16.09	PASS
			1000~26500	3.91	-46.39	≤-16.09	PASS
	Ant4	2480	30~1000	6.41	-55.18	≤-13.59	PASS
			1000~26500	6.41	-46.14	≤-13.59	PASS

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