FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2231-1, XT2231-5

FCC ID : IHDT56AC2

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

TEST DATE(S) : Dec. 12, 2021 ~ Dec. 21, 2021

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Derreck Chen / Supervisor

Frie Shih

Dominie Chang

Approved by: Eric Shih / Manager

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 1 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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

Cert #5145.01

TABLE OF CONTENTS

		N HISTORY	
SUI	MMAR	Y 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	5
	1.6	Testing Location	6
	1.7	Test Software	6
	1.8	Applicable Standards	6
	1.9	Specification of Accessory	
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1	Carrier Frequency Channel	8
	2.2	Test Mode	
	2.3	Connection Diagram of Test System	10
	2.4	Support Unit used in test configuration and system	
	2.5	EUT Operation Test Setup	
	2.6	Measurement Results Explanation Example	
3	TEST	RESULT	
	3.1	6dB Bandwidth Measurement	
	3.2	Output Power Measurement	16
	3.3	Power Spectral Density Measurement	17
	3.4	Conducted Band Edges and Spurious Emission Measurement	
	3.5	Radiated Band Edges and Spurious Emission Measurement	
	3.6	AC Conducted Emission Measurement	
	3.7	Antenna Requirements	
4		OF MEASURING EQUIPMENT	
5		ERTAINTY OF EVALUATION	41
		IX A. CONDUCTED TEST RESULTS	
		IX B. AC CONDUCTED EMISSION TEST RESULT	
		IX C. RADIATED SPURIOUS EMISSION	
		IX D. DUTY CYCLE PLOTS	
API	PEND	IX E. SETUP PHOTOGRAPHS	

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 2 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No. : FR1N1011B

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR1N1011B	Rev. 01	Initial issue of report	Jan. 25, 2022

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 3 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No. : FR1N1011B

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	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 6.40 dB at 2381.610 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 6.32 dB at 10.680 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. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 4 of 41

Report Issued Date : Jan. 25, 2022

Report Version : Rev. 01

Report No.: FR1N1011B

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	XT2231-1, XT2231-5		
FCC ID	IHDT56AC2		
	Conducted: 359986690032831/359986690038317		
	Conduction: 359986690052110/359986690053951		
	Radiation:		
IMEI Code	359986690042913/359986690045437 for Sample 1		
	359986690034720/359986690040206 for Sample 2		
	359986690053365/359986690055204 for Sample 3		
	359986690060196 for Sample 4		
HW Version	PVT2		
SW Version	STA32.48		
EUT Stage	Identical Prototype		

Report No.: FR1N1011B

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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	Bluetooth LE 1Mbps : -0.66 dBm (0.0009 W)		
Maximum Output Power to Antenna	Bluetooth LE 2Mbps : -0.62 dBm (0.0009 W)		
Antenna Type / Gain	PIFA Antenna type with gain -5.0 dBi		
Type of Modulation	Bluetooth LE : GFSK		

1.5 Modification of EUT

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

 Sporton International Inc. (ShenZhen)
 Page Number
 : 5 of 41

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jan. 25, 2022

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: IHDT56AC2 Report Template No.: BU5-FR15CBT4.0 Version 2.0

1.6 Testing Location

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

Report No.: FR1N1011B

Test Firm	Sporton International Inc. (Shenzhen)				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595				
Took Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
Test Site No.	CO01-SZ TH01-SZ	CN1256	421272		

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			
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	
1331 3.13 1431	03CH01-SZ	CN1256	421272	

1.7 Test Software

lt	em	Site	Manufacturer	Name	Version
	1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
	2.	CO01-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

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

- 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.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

 Sporton International Inc. (ShenZhen)
 Page Number
 : 6 of 41

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jan. 25, 2022

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: IHDT56AC2 Report Template No.: BU5-FR15CBT4.0 Version 2.0

1.9 Specification of Accessory

	Specification of Accessory					
AC Adapter 1(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-201		
AC Adapter 1(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-202		
AC Adapter 1(AR)	Brand Name	Motorola (Chenyang)	Model Name	MC-206		
AC Adapter 2(US)	Brand Name	Motorola (Acbel)	Model Name	MC-201		
AC Adapter 2(EU)	Brand Name	Motorola (Acbel)	Model Name	MC-202		
AC Adapter 2(AR)	Brand Name	Motorola (Acbel)	Model Name	MC-206		
AC Adapter 2(CHILE)	Brand Name	Motorola (Acbel)	Model Name	MC-209		
AC Adapter 3(IN)	Brand Name	Motorola (Chenyang)	Model Name	MC-204		
AC Adapter 4(IN)	Brand Name	Motorola (Aohai)	Model Name	MC-204		
AC Adapter 5(BR)	Brand Name	Motorola (Flex)	Model Name	MC-207		
AC Adapter 6(BR)	Brand Name	Motorola (Salcomp)	Model Name	MC-207		
AC Adapter 7(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-101		
AC Adapter 7(EU)	Brand Name	Motorola (Chenyang)	Model Name	MC-102		
AC Adapter 7(UK)	Brand Name	Motorola (Chenyang)	Model Name	MC-103		
AC Adapter 7(AU)	Brand Name	Motorola (Chenyang)	Model Name	MC-105		
AC Adapter 8(US)	Brand Name	Motorola (Salcomp)	Model Name	MC-101		
AC Adapter 8(EU)	Brand Name	Motorola (Salcomp)	Model Name	MC-102		
AC Adapter 8(UK)	Brand Name	Motorola (Salcomp)	Model Name	MC-103		
AC Adapter 8(AU)	Brand Name	Motorola (Salcomp)	Model Name	MC-105		
AC Adapter 9(US)	Brand Name	Motorola (Aohai)	Model Name	MC-101		
AC Adapter 9(EU)	Brand Name	Motorola (Aohai)	Model Name	MC-102		
AC Adapter 9(UK)	Brand Name	Motorola (Aohai)	Model Name	MC-103		
AC Adapter 10(IN)	Brand Name	Motorola (Chenyang)	Model Name	MC-104		
AC Adapter 11(IN)	Brand Name	Motorola (Aohai)	Model Name	MC-104		
AC Adapter 12(AU)	Brand Name	Motorola (Aohai)	Model Name	MC-105		
AC Adapter 13(EU)	Brand Name	Motorola (Salom)	Model Name	SC-42		
AC Adapter 14(UK)	Brand Name	Motorola (Chenyang)	Model Name	SC-43		
Earphone 1	Brand Name	Motorola (lyand)	Model Name	LYM239-76C-003		
Earphone 2	Brand Name	Motorola (LCHSE)	Model Name	MEND1432B875000		
Earphone 3	Brand Name	Motorola (New Leader)	Model Name	MH202		
USB Cable 1	Brand Name	Motorola(Yihuaxing)	Model Name	T365-011B		
USB Cable 2	Brand Name	Motorola(SUNTOPS)	Model Name	336258		
USB Cable 3	Brand Name	Motorola(SUNTOPS)	Model Name	336281		
USB Cable 4	Brand Name	Motorola(I SHENG)	Model Name	SC18D33506		
USB Cable 5	Brand Name	Motorola(Yihuaxing)	Model Name	T365-012B		
Battery 1	Brand Name	Motorola(Sunwoda)	Model Name	NH50		
Battery 2	Brand Name	Motorola(SCUD)	Model Name	NH50		

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 7 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No. : FR1N1011B

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: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 8 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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 (X plane) 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
Test Item	Data Rate / Modulation
rest item	Bluetooth – LE / GFSK
Conducted	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
TCs	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
ics	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
Radiated	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
TCs	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
AC	Mode 1: CSM 950 Idle + Blueteeth Link + WLAN Link /2 4C\ + LISB Coble 1 (Charging
Conducted	Mode 1: GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable 1 (Charging
Emission	from Adapter6) + Earphone 1+Battery 1

Simultaneous transmission
LTE Band38 link+BLE CH00(2402MHz)

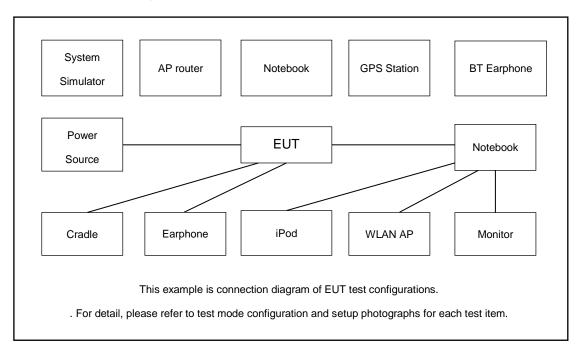
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 9 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

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

Report No.: FR1N1011B

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Base Station	R&S	CBT32	N/A	N/A	Unshielded,1.8m
3.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
4.	Notebook	Lenovo	E540	FCC DoC	Lenovo	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 10 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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 loss1.20 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 1.20 + 10 = 11.20 (dB)

Page Number : 11 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

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

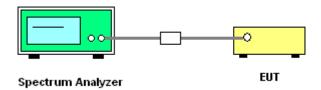
3.1.2 Measuring Instruments

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. Measure and record the results in the test report.

3.1.4 Test Setup



Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 12 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

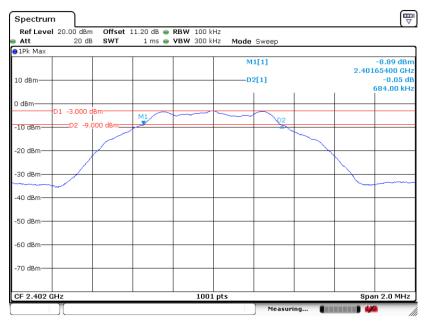
Report No.: FR1N1011B

3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

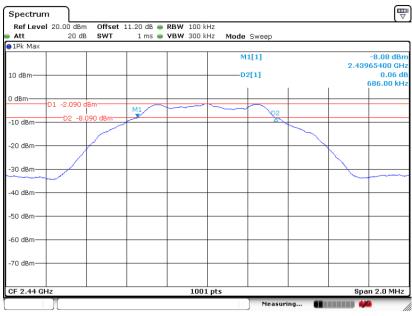
Bluetooth LE 1Mbps:

6 dB Bandwidth Plot on Channel 00



Date: 12.DEC.2021 03:56:25

6 dB Bandwidth Plot on Channel 19



Date: 12.DEC.2021 03:59:20

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 13 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

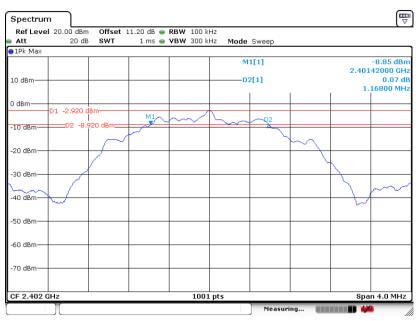
6 dB Bandwidth Plot on Channel 39



Date: 12.DEC.2021 04:05:20

Bluetooth LE 2Mbps:

6 dB Bandwidth Plot on Channel 00



Date: 12.DEC.2021 04:08:09

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 14 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

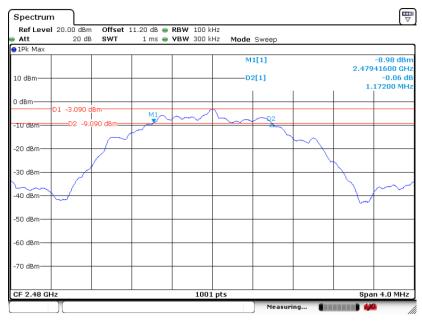
Report No.: FR1N1011B

6 dB Bandwidth Plot on Channel 19



Date: 12.DEC.2021 04:11:58

6 dB Bandwidth Plot on Channel 39



Date: 12.DEC.2021 04:16:10

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 15 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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.

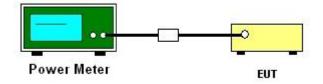
3.2.2 Measuring Instruments

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 11.9.2.3.2 Method AVGPM-G 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



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

Sporton International Inc. (ShenZhen)
TEL: +86-755-8637-9589

FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 16 of 41
Report Issued Date : Jan. 25, 2022

Report No.: FR1N1011B

Report Version : Rev. 01

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.

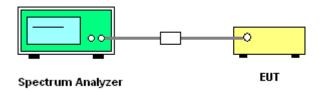
3.3.2 Measuring Instruments

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.

Sporton International Inc. (ShenZhen)

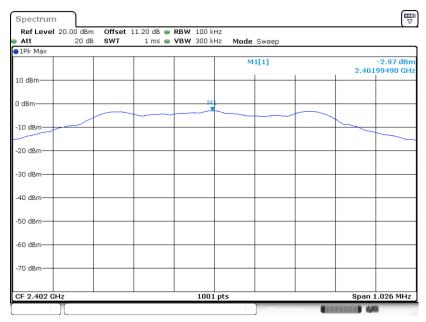
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 17 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

3.3.6 Test Result of Power Spectral Density Plots (100kHz)

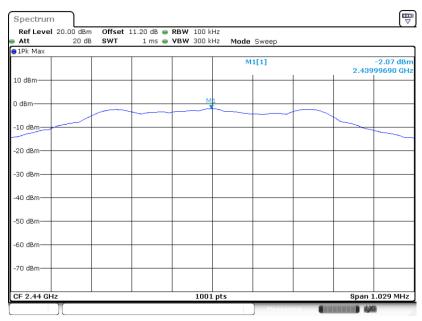
Bluetooth LE 1Mbps:

PSD 100kHz Plot on Channel 00



Date: 12.DEC.2021 03:57:06

PSD 100kHz Plot on Channel 19



Date: 12.DEC.2021 04:00:59

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 18 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

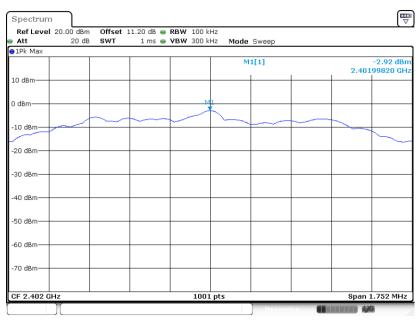
PSD 100kHz Plot on Channel 39



Date: 12.DEC.2021 04:05:49

Bluetooth LE 2Mbps:

PSD 100kHz Plot on Channel 00



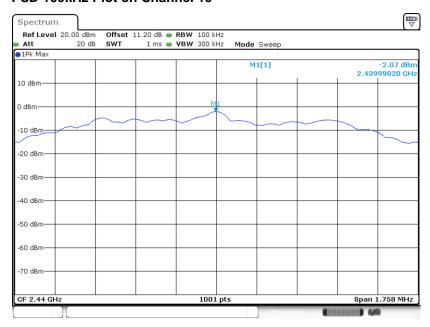
Date: 12.DEC.2021 04:09:11

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 19 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

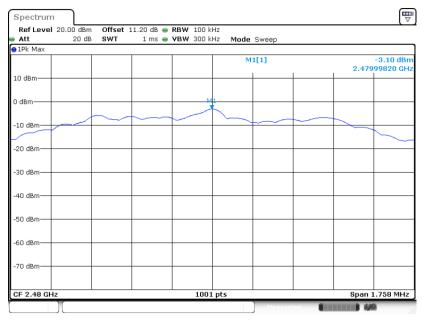
Report No.: FR1N1011B

PSD 100kHz Plot on Channel 19



Date: 12.DEC.2021 04:12:32

PSD 100kHz Plot on Channel 39



Date: 12.DEC.2021 04:17:42

Sporton International Inc. (ShenZhen)

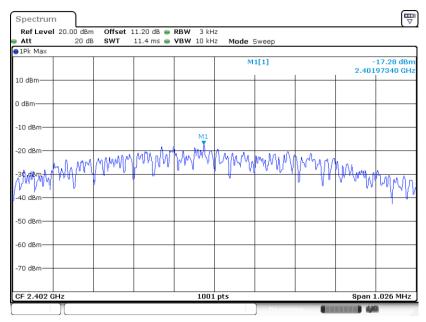
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 20 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

3.3.7 Test Result of Power Spectral Density Plots (3kHz)

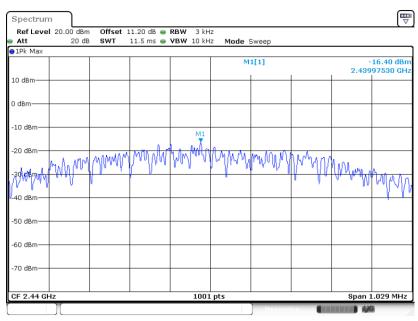
Bluetooth LE 1Mbps:

PSD 3kHz Plot on Channel 00



Date: 12.DEC.2021 03:56:41

PSD 3kHz Plot on Channel 19



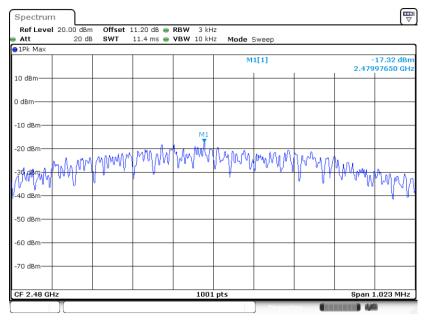
Date: 12.DEC.2021 03:59:38

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 21 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

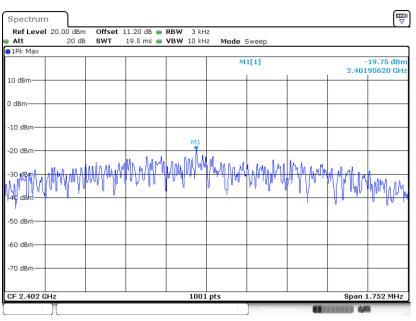
PSD 3kHz Plot on Channel 39



Date: 12.DEC.2021 04:05:31

Bluetooth LE 2Mbps:

PSD 3kHz Plot on Channel 00



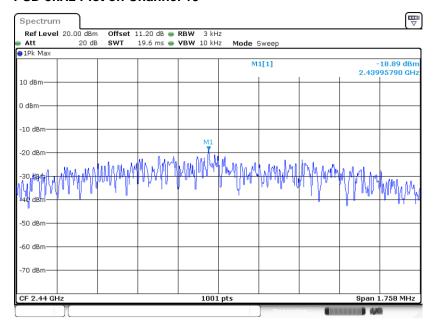
Date: 12.DEC.2021 04:08:21

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 22 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

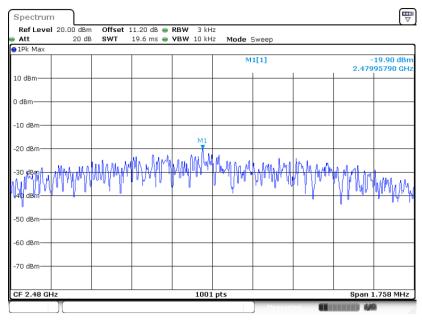
Report No.: FR1N1011B

PSD 3kHz Plot on Channel 19



Date: 12.DEC.2021 04:12:10

PSD 3kHz Plot on Channel 39



Date: 12.DEC.2021 04:16:52

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 23 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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.

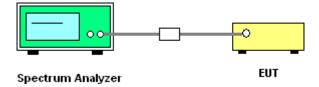
3.4.2 Measuring Instruments

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



Sporton International Inc. (ShenZhen)
TEL: +86-755-8637-9589

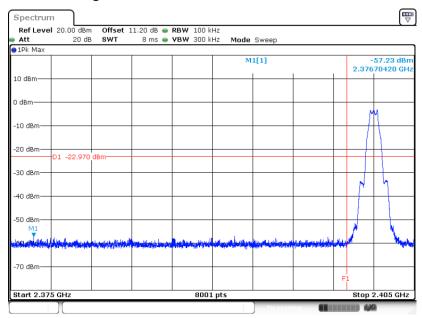
FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 24 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

3.4.5 Test Result of Conducted Band Edges Plots

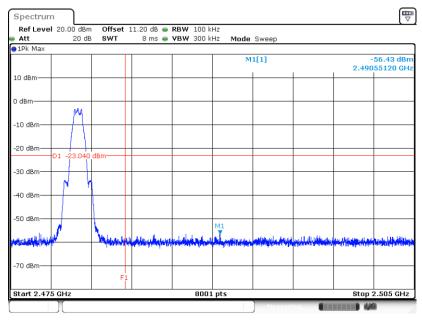
Bluetooth LE 1Mbps:

Low Band Edge Plot on Channel 00



Date: 12.DEC.2021 03:57:28

High Band Edge Plot on Channel 39



Date: 12.DEC.2021 04:06:01

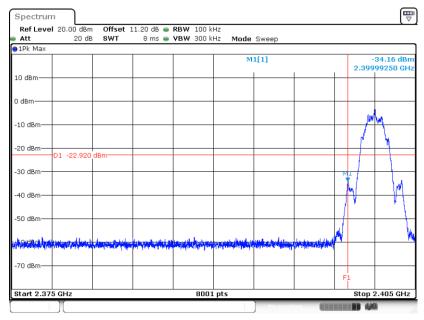
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 25 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

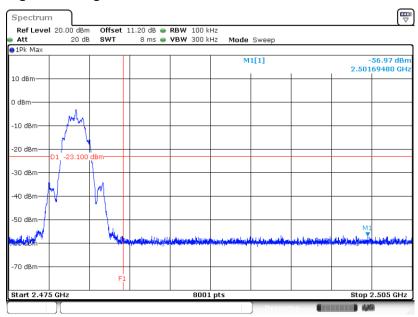
Bluetooth LE 2Mbps:

Low Band Edge Plot on Channel 00



Date: 12.DEC.2021 04:09:26

High Band Edge Plot on Channel 39



Date: 12.DEC.2021 04:18:21

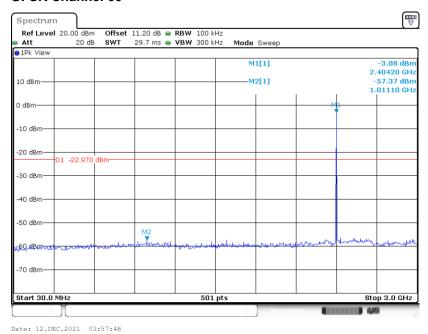
TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 26 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

3.4.6 Test Result of Conducted Spurious Emission Plots

Bluetooth LE 1Mbps:

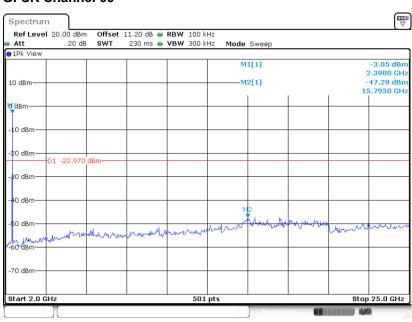
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

GFSK Channel 00

Date: 12.DEC.2021 03:58:28

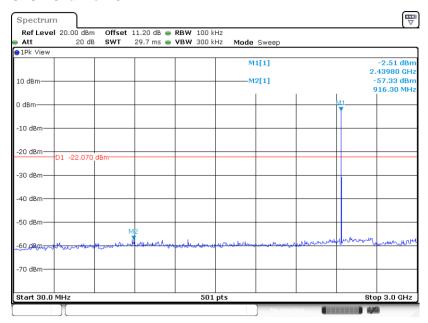


Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 27 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

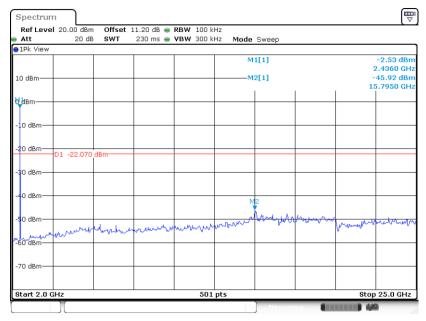
Report No.: FR1N1011B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 12.DEC.2021 04:02:10

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



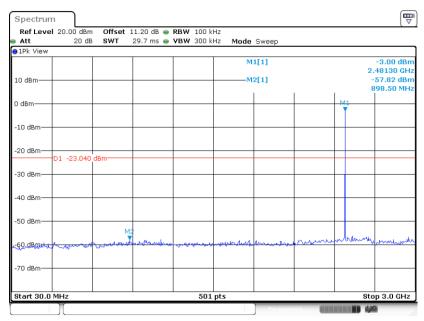
Date: 12.DEC.2021 04:02:50

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 28 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

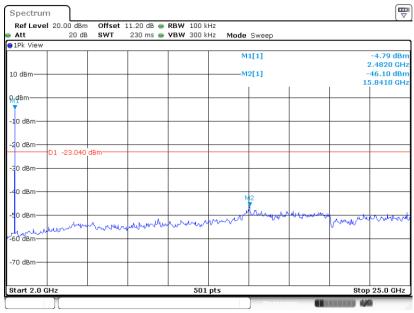
Report No.: FR1N1011B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 12.DEC.2021 04:07:19

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 12.DEC.2021 04:07:34

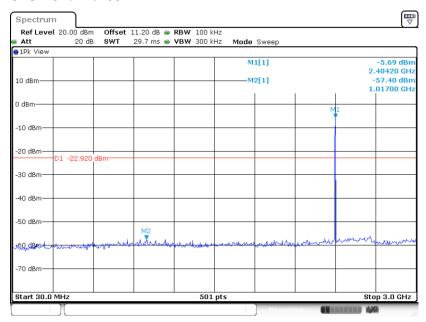
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 29 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

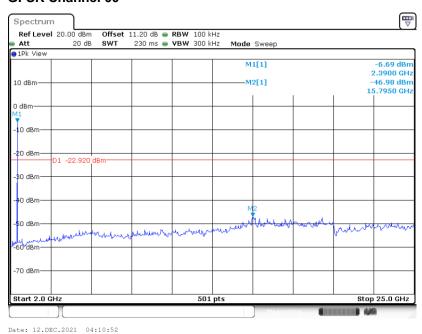
Bluetooth LE 2Mbps:

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00



Date: 12.DEC.2021 04:10:34

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 00

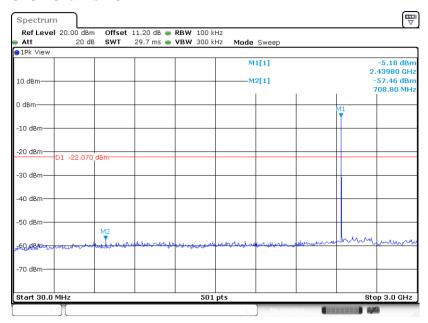


Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 30 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

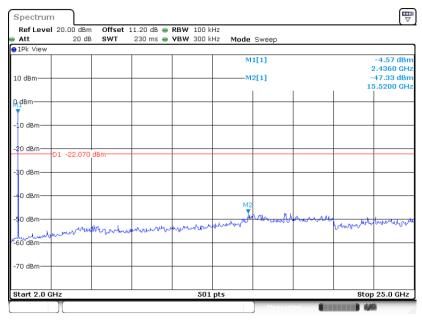
Report No.: FR1N1011B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



Date: 12.DEC.2021 04:15:08

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 19



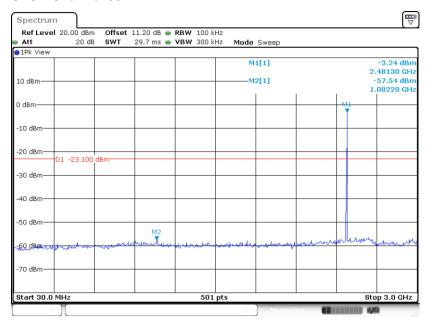
Date: 12.DEC.2021 04:15:40

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 31 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

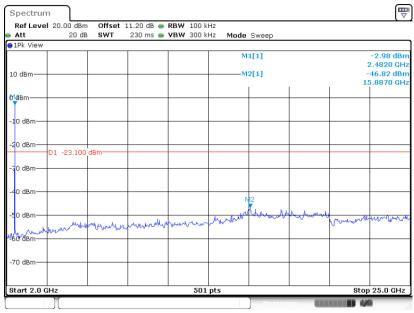
Report No.: FR1N1011B

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 12.DEC.2021 04:19:13

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps GFSK Channel 39



Date: 12.DEC.2021 04:19:28

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 32 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 33 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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.: FR1N1011B

- 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. (ShenZhen)
 Page Number
 : 34 of 41

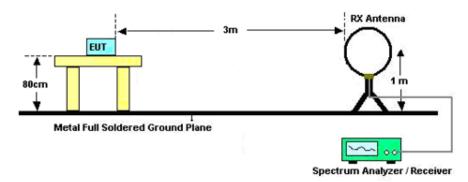
 TEL: +86-755-8637-9589
 Report Issued Date
 : Jan. 25, 2022

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

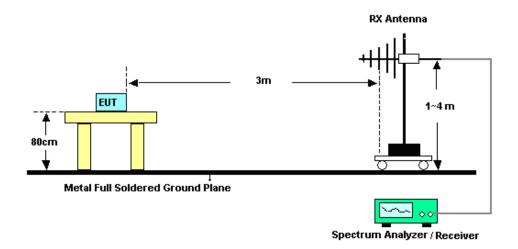
FCC ID: IHDT56AC2 Report Template No.: BU5-FR15CBT4.0 Version 2.0

3.5.4 Test Setup

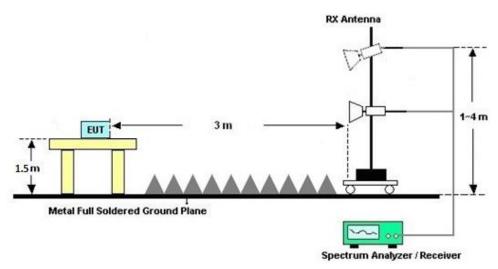
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 35 of 41
Report Issued Date : Jan. 25, 2022

Report No.: FR1N1011B

Report Version : Rev. 01
Report Template No.: BU5-FR15CBT4.0 Version 2.0

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.: FR1N1011B

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.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

 Sporton International Inc. (ShenZhen)
 Page Number
 : 36 of 41

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jan. 25, 2022

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: IHDT56AC2 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.

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. (ShenZhen)
TEL: +86-755-8637-9589

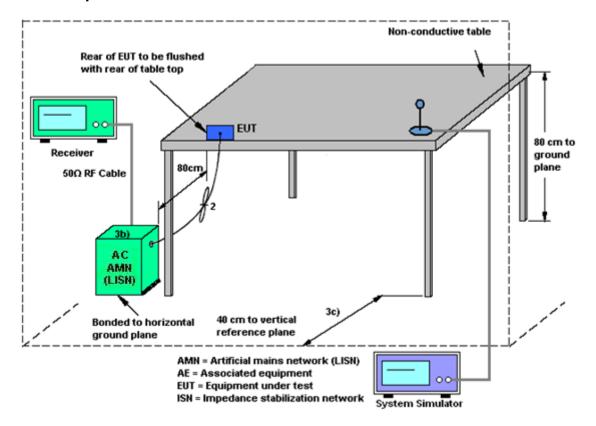
FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 37 of 41
Report Issued Date : Jan. 25, 2022

Report No.: FR1N1011B

Report Version : Rev. 01

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. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 38 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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

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. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 39 of 41
Report Issued Date : Jan. 25, 2022
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
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Dec. 12, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 25, 2020	Dec. 12, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 25, 2020	Dec. 12, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY522601 85	20Hz~26.5GHz	Dec. 03, 2021	Dec. 14, 2021~ Dec. 15, 2021	Dec. 02, 2022	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Jul. 21, 2021	Dec. 14, 2021~ Dec. 15, 2021	Jul. 20, 2022	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Dec. 14, 2021~ Dec. 15, 2021	Jun. 21, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2021	Dec. 14, 2021~ Dec. 15, 2021	Jul. 14, 2022	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2021	Dec. 14, 2021~ Dec. 15, 2021	Jul. 24, 2022	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Dec. 14, 2021~ Dec. 15, 2021	Apr.10, 2022	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 07, 2021	Dec. 14, 2021~ Dec. 15, 2021	Apr. 06, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 16, 2021	Dec. 14, 2021~ Dec. 15, 2021	Oct.15, 2022	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY532701 05	0.5GHz~26.5Gh z	Oct. 16, 2021	Dec. 14, 2021~ Dec. 15, 2021	Oct. 15, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 21, 2021	Dec. 14, 2021~ Dec. 15, 2021	Jul. 20, 2022	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Dec. 14, 2021~ Dec. 15, 2021	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 14, 2021~ Dec. 15, 2021	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 14, 2021~ Dec. 15, 2021	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Mar. 08, 2021	Dec. 21, 2021	Mar. 07, 2022	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	Dec. 21, 2021	Dec. 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2021	Dec. 21, 2021	Oct. 14, 2022	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 14, 2021	Dec. 21, 2021	Jul. 13, 2022	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : 40 of 41
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report No.: FR1N1011B

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

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.: FR1N1011B

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

Measuring Uncertainty for a Level of Confidence	2.2dB
of 95% (U = 2Uc(y))	2.206

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

Measuring Uncertainty for a Level of Confidence	4.0.40
of 95% (U = 2Uc(y))	4.2dB

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

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	5.00B

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

	-
Measuring Uncertainty for a Level of Confidence	4.3dB
of 95% (U = 2Uc(y))	4.305

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

 Sporton International Inc. (ShenZhen)
 Page Number
 : 41 of 41

 TEL: +86-755-8637-9589
 Report Issued Date
 : Jan. 25, 2022

 FAX: +86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID: IHDT56AC2 Report Template No.: BU5-FR15CBT4.0 Version 2.0

Appendix A. Conducted Test Results

Sporton International Inc. (Shenzhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : A1 of A1
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Report Number : FR1N1011B

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ma Jie	Temperature:	21~25	°C
Test Date:	2021/12/12	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.029	0.684	0.50	Pass
BLE	1Mbps	1	19	2440	1.031	0.686	0.50	Pass
BLE	1Mbps	1	39	2480	1.031	0.682	0.50	Pass

TEST RESULTS DATA Peak Power Table

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	-1.26	30.00	-5.00	-6.26	36.00	Pass
BLE	1Mbps	1	19	2440	-0.66	30.00	-5.00	-5.66	36.00	Pass
BLE	1Mbps	1	39	2480	-1.53	30.00	-5.00	-6.53	36.00	Pass

TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	-2.97	-17.28	-5.00	8.00	Pass
BLE	1Mbps	1	19	2440	-2.07	-16.40	-5.00	8.00	Pass
BLE	1Mbps	1	39	2480	-3.04	-17.32	-5.00	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Report Number : FR1N1011B

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ma Jie	Temperature:	21~25	°C
Test Date:	2021/12/12	Relative Humidity:	51~54	%

TEST RESULTS DATA 6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE5.0	2Mbps	1	0	2402	2.058	1.168	0.50	Pass
BLE5.0	2Mbps	1	19	2440	2.058	1.172	0.50	Pass
BLE5.0	2Mbps	1	39	2480	2.058	1.172	0.50	Pass

TEST RESULTS DATA Peak Power Table

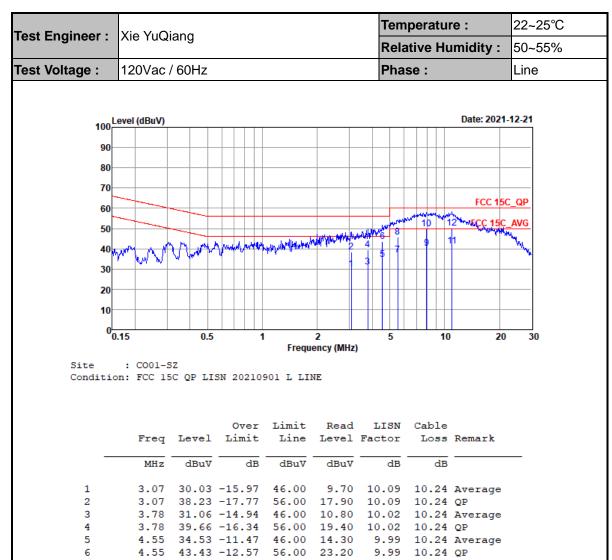
Mod.	Data Rate	NTX	СН.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE5.0	2Mbps	1	0	2402	-1.19	30.00	-5.00	-6.19	36.00	Pass
BLE5.0	2Mbps	1	19	2440	-0.62	30.00	-5.00	-5.62	36.00	Pass
BLE5.0	2Mbps	1	39	2480	-1.44	30.00	-5.00	-6.44	36.00	Pass

TEST RESULTS DATA Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE5.0	2Mbps	1	0	2402	-2.92	-19.75	-5.00	8.00	Pass
BLE5.0	2Mbps	1	19	2440	-2.07	-18.89	-5.00	8.00	Pass
BLE5.0	2Mbps	1	39	2480	-3.10	-19.90	-5.00	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Appendix B. AC Conducted Emission Test Results



9.97

9.97 10.25 QP

9.80 10.31 QP

9.90 10.28 Average

9.90 10.28 QP 9.80 10.31 Average

10.25 Average

5.53 37.02 -12.98 50.00 16.80 5.53 45.82 -14.18 60.00 25.60

7.98 40.28 -9.72 50.00 20.10

7.98 49.78 -10.22 60.00 29.60 10.96 41.21 -8.79 50.00 21.10

10.96 50.11 -9.89 60.00 30.00

8

10 11 *

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : B1 of B2
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

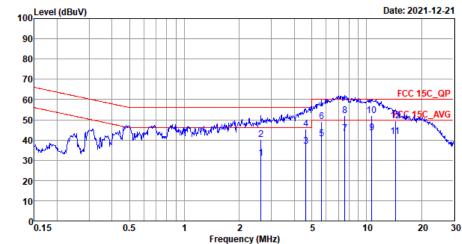
Test Engineer : Xie YuQiang

Temperature : 22~25°C

Relative Humidity : 50~55%

Test Voltage : 120Vac / 60Hz

Phase : Neutral



Site : CO01-SZ

Condition: FCC 15C_QP LISN_20210901_N NEUTRAL

			Over	Limit	Read	LISN	Cable	
	Fre	q Level	Limit	Line	Level	Factor	Loss	Remark
		_						
	MH	z dBuV	dB	dBuV	dBuV	dB	dB	
1	2.6	4 30.89	-15.11	46.00	10.50	10.15	10.24	Average
2	2.6	4 40.29	-15.71	56.00	19.90	10.15	10.24	QP
3	4.6	5 36.78	-9.22	46.00	16.40	10.14	10.24	Average
4	4.6	5 45.48	-10.52	56.00	25.10	10.14	10.24	QP
5	5.6	5 40.44	-9.56	50.00	20.10	10.09	10.25	Average
6	5.6	5 49.14	-10.86	60.00	28.80	10.09	10.25	QP
7	7.6	1 43.19	-6.81	50.00	22.90	10.01	10.28	Average
8	7.6	1 52.19	-7.81	60.00	31.90	10.01	10.28	QP
9 *	[*] 10.6	8 43.68	-6.32	50.00	23.40	9.97	10.31	Average
10	10.6	8 51.88	-8.12	60.00	31.60	9.97	10.31	QP
11	14.3	6 41.72	-8.28	50.00	21.50	9.88	10.34	Average
12	14.3	6 49.62	-10.38	60.00	29.40	9.88	10.34	_

Note:

- 1. Level($dB\mu V$) = Read Level($dB\mu V$) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : B2 of B2
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)---Sample 1

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol
JLL	Note	rrequeries	Levei	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	
		2344.23	54.38	-19.62	74	45.4	32.1	9.58	32.7	371	282	Р	Н
		2380.455	45.71	-8.29	54	36.75	32.03	9.63	32.7	371	282	Α	Н
BLE		2402	92.05	-	-	83.1	32	9.65	32.7	371	282	Р	Н
CH 00		2402	90.45	-	-	81.5	32	9.65	32.7	371	282	Α	Н
2402MHz		2377.41	54.64	-19.36	74	45.69	32.03	9.62	32.7	374	262	Р	V
		2363.55	45.6	-8.4	54	36.62	32.07	9.61	32.7	374	262	Α	V
		2402	91.03	-	-	82.08	32	9.65	32.7	374	262	Р	V
		2402	89.56	-	-	80.61	32	9.65	32.7	374	262	Α	V
		2317.14	54.73	-19.27	74	45.98	31.9	9.55	32.7	366	279	Р	Н
		2338.14	45.54	-8.46	54	36.56	32.1	9.58	32.7	366	279	Α	Н
		2440	95.03	-	-	85.73	32.3	9.7	32.7	366	279	Р	Н
		2440	93.64	-	-	84.34	32.3	9.7	32.7	366	279	Α	Н
		2484.46	54.27	-19.73	74	45.05	32.17	9.75	32.7	366	279	Р	Н
BLE		2492.23	45.16	-8.84	54	36	32.1	9.76	32.7	366	279	Α	Н
CH 19		2376.22	54.37	-19.63	74	45.42	32.03	9.62	32.7	363	261	Р	V
2440MHz		2364.32	45.36	-8.64	54	36.38	32.07	9.61	32.7	363	261	Α	V
		2440	92.9	-	-	83.6	32.3	9.7	32.7	363	261	Р	V
		2440	90.65	-	-	81.35	32.3	9.7	32.7	363	261	Α	V
		2486.49	54.22	-19.78	74	45	32.17	9.75	32.7	363	261	Р	٧
		2491.32	45.4	-8.6	54	36.24	32.1	9.76	32.7	363	261	Α	V

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C1 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01



	2480	94.11	-	-	84.89	32.17	9.75	32.7	306	287	Р	Н
	2480	92.66	-	-	83.44	32.17	9.75	32.7	306	287	Α	Н
	2487.36	54.68	-19.32	74	45.46	32.17	9.75	32.7	306	287	Р	Н
BLE	2489.08	45.5	-8.5	54	36.34	32.1	9.76	32.7	306	287	Α	Н
CH 39 2480MHz	2480	86.1	-	-	76.88	32.17	9.75	32.7	204	19	Р	V
2400WIT12	2480	82.53	-	-	73.31	32.17	9.75	32.7	204	19	Α	V
	2493	54.67	-19.33	74	45.51	32.1	9.76	32.7	204	19	Р	٧
	2484.4	45.55	-8.45	54	36.33	32.17	9.75	32.7	204	19	Α	V
Remark	o other spurious		Peak and	Average lim	it line.							

BLE (Harmonic @ 3m)---Sample 1

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		4804	43.98	-30.02	74	50.23	33.9	12	52.15	-	-	Р	Н
CH 00 2402MHz		4804	44.78	-29.22	74	51.03	33.9	12	52.15	-	-	Р	V
		4880	45.15	-28.85	74	51.47	33.73	12.05	52.1	-	-	Р	Н
BLE		7320	48.32	-25.68	74	50.15	35.77	14.17	51.77	-	-	Р	Н
CH 19 2440MHz		4880	44.11	-29.89	74	50.43	33.73	12.05	52.1	-	-	Р	V
2440WITI2		7320	48.78	-25.22	74	50.61	35.77	14.17	51.77	-	ı	Р	V
DI E		4960	44.46	-29.54	74	50.67	33.73	12.09	52.03	ı	ı	Р	Н
BLE		7440	48.28	-25.72	74	49.9	35.79	14.24	51.65	-	-	Р	Н
CH 39 2480MHz		4960	44.59	-29.41	74	50.8	33.73	12.09	52.03	-	-	Р	V
Z40UIVIFIZ		7440	47.73	-26.27	74	49.35	35.79	14.24	51.65	-	-	Р	V
Remark		o other spurious		Peak and	Average lim	it line.							

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C2 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Emission below 1GHz

2.4GHz BLE (LF)---Sample 1

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	($dB\mu V/m$)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		105.66	29.36	-14.14	43.5	46.33	15.75	2.47	35.19	-	-	Р	Н
		152.22	28.98	-14.52	43.5	42.22	19.3	2.56	35.1	-	-	Р	Н
		200.72	29.85	-13.65	43.5	45.76	16.44	2.75	35.1	-	-	Р	Н
		353.98	21.11	-24.89	46	31.81	20.95	3.24	34.89	-	-	Р	Н
2.4011-		515.97	23.74	-22.26	46	30.69	24.19	3.53	34.67	-	-	Р	Н
2.4GHz BLE		768.17	28.16	-17.84	46	30.63	27.98	3.91	34.36	-	-	Р	Н
LF		48.43	29.84	-10.16	40	42.44	20.28	2.2	35.08	-	-	Р	V
L.		101.78	25.78	-17.72	43.5	43.43	15.09	2.46	35.2	-	-	Р	V
		158.04	28.77	-14.73	43.5	41.98	19.31	2.58	35.1	-	-	Р	V
		205.57	25.72	-17.78	43.5	41.54	16.51	2.76	35.09	-	-	Р	V
		402.48	21.79	-24.21	46	31.15	22.13	3.31	34.8	-	-	Р	V
		581.93	25.98	-20.02	46	31.29	25.43	3.8	34.54	-	-	Р	V
Remark		o other spurious		mit line.									

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C3 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

BLE (Band Edge @ 3m)---Sample 2

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2332.68	54.66	-19.34	74	45.79	32	9.57	32.7	227	275	Р	Н
		2367.645	45.9	-8.1	54	36.92	32.07	9.61	32.7	227	275	Α	Н
BLE		2402	93.54	-	-	84.59	32	9.65	32.7	227	275	Р	Н
CH 00		2402	90.61	-	-	81.66	32	9.65	32.7	227	275	Α	Н
2402MHz		2382.03	55.32	-18.68	74	46.36	32.03	9.63	32.7	337	252	Р	V
		2342.76	45.79	-8.21	54	36.81	32.1	9.58	32.7	337	252	Α	V
		2402	90.53	-	-	81.58	32	9.65	32.7	337	252	Р	V
		2402	88.08	-	-	79.13	32	9.65	32.7	337	252	Α	V
Remark	1. N	o other spurious	s found.										
i Neillai K	2. A	ll results are PA	SS against l	mit line.									

2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)---Sample 2

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(NALL -)	(-ID)//)	Limit	Line	Level	Factor	Loss	Factor	Pos		Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		4804	45.97	-28.03	74	52.22	33.9	12	52.15	-	-	Р	Н
CH 00													
2402MHz		4804	45.53	-28.47	74	51.78	33.9	12	52.15	-	-	Р	V
Remark	1. No	No other spurious found.											
Neillaik	2. Al	l results are PA	SS against l	imit line.									

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C4 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

BLE (Band Edge @ 3m)---Sample 3

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2373.945	56.21	-17.79	74	47.26	32.03	9.62	32.7	100	320	Р	Н
		2358.51	46.88	-7.12	54	37.91	32.07	9.6	32.7	100	320	Α	Н
BLE		2402	92.98	-	-	84.03	32	9.65	32.7	100	320	Р	Н
CH 00		2402	92.34	-	-	83.39	32	9.65	32.7	100	320	Α	Н
2402MHz		2388.225	55.66	-18.34	74	46.72	32	9.64	32.7	364	246	Р	V
		2372.58	46.25	-7.75	54	37.3	32.03	9.62	32.7	364	246	Α	V
		2402	90.57	-	-	81.62	32	9.65	32.7	364	246	Р	V
		2402	90.03	-	-	81.08	32	9.65	32.7	364	246	Α	V
Remark	1. No	other spurious	s found.										
	2. All	results are PA	SS against li	mit line.									

2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)---Sample 3

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		/ .		Limit	Line	Level	Factor	Loss	Factor	Pos		Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE		4804	46.18	-27.82	74	52.43	33.9	12	52.15	-	-	Р	Н
CH 00													
2402MHz		4804	46	-28	74	52.25	33.9	12	52.15	-	-	Р	V
Remark	1. No	No other spurious found.											
i Nemai k	2. Al	l results are PA	SS against li	mit line.									

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C5 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

BLE (Band Edge @ 3m)---Sample 4

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2353.365	57.06	-16.94	74	48.1	32.07	9.59	32.7	311	293	Р	Н
		2381.61	47.6	-6.4	54	38.64	32.03	9.63	32.7	311	293	Α	Н
BLE		2402	93.91	-	-	84.96	32	9.65	32.7	311	293	Р	Н
CH 00		2402	93.67	-	-	84.72	32	9.65	32.7	311	293	Α	Н
2402MHz		2321.865	56.67	-17.33	74	47.81	32	9.56	32.7	399	248	Р	V
		2373.105	47.36	-6.64	54	38.41	32.03	9.62	32.7	399	248	Α	V
		2402	90.85	-	-	81.9	32	9.65	32.7	399	248	Р	٧
		2402	90.25	-	-	81.3	32	9.65	32.7	399	248	Α	V
Remark	1. No	other spurious	s found.										
	2. All	results are PA	SS against li	mit line.									

2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)---Sample 4

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg.	
DI E		(101112)	(αυμν/ιιι)	(45)	(αυμν/ιιι)	(αυμν)	(ub/iii)	(40)	(45)	(0111)	(ueg)	(1 ///)	(1 1/ V)
BLE		4804	44.54	-29.46	74	50.79	33.9	12	52.15	-	-	Р	Н
CH 00													
2402MHz		4804	44.48	-29.52	74	50.73	33.9	12	52.15	-	-	Р	V
Remark	1. N	No other spurious found.											
	2. A	I results are PA	SS against l	imit line.									

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C6 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

<Simultaneous transmission>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)---Sample 1

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2324.49	53.68	-20.32	74	44.82	32	9.56	32.7	133	320	Р	Н
		2333.835	44.63	-9.37	54	35.76	32	9.57	32.7	133	320	Α	Н
BLE CH 00		2402	91.92	-	-	82.97	32	9.65	32.7	133	320	Р	Н
2402MHz		2402	91.36	-	-	82.41	32	9.65	32.7	133	320	Α	Н
+LTEB38		2338.98	53.35	-20.65	74	44.37	32.1	9.58	32.7	366	227	Р	٧
		2352.84	44.16	-9.84	54	35.2	32.07	9.59	32.7	366	227	Α	٧
		2402	89.05	-	-	80.1	32	9.65	32.7	366	227	Р	V
		2402	88.46	-	-	79.51	32	9.65	32.7	366	227	Α	V

2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)---Sample 1

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	$(dB\mu V/m)$	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4804	45.88	-28.12	74	52.13	33.9	12	52.15	-	-	Р	Н
		5172	46.5	-27.5	74	52.47	34.07	12.16	52.2	-	-	Р	Н
BLE		7758	49.71	-24.29	74	50.75	35.85	14.6	51.49	-	-	Р	Н
CH 00		10344	48.46	-25.54	74	46.81	37.38	15.31	51.04	-	-		Н
2402MHz +LTEB38		4804	44.76	-29.24	74	51.01	33.9	12	52.15	-	-	Р	٧
TETEB30		5172	45.83	-28.17	74	51.8	34.07	12.16	52.2	-	-	Р	٧
		7758	48.93	-25.07	74	49.97	35.85	14.6	51.49	-	-	Р	V
		10344	50	-24	74	48.35	37.38	15.31	51.04	-	-		V

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C7 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Note symbol

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

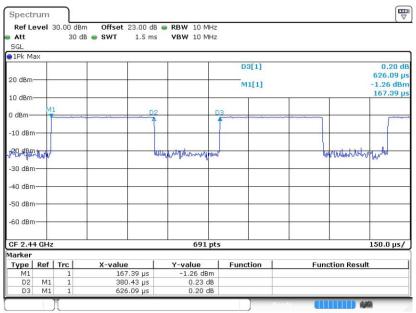
Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : C8 of C8
Report Issued Date : Jan. 25, 2022
Report Version : Rev. 01

Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting	
Bluetooth LE 1Mbps	60.76	0.380	2.629	3KHz	

Bluetooth LE 1Mbps



Date: 7.DEC.2021 23:56:23

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: IHDT56AC2 Page Number : D1 of D1
Report Issued Date : Jan. 25, 2022

Report No.: FR1N1011B

Report Version : Rev. 01