

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC163509

1 of 46 Page:

# **FCC Radio Test Report** FCC ID: 2AQOO-360C13

# **Original Grant**

Report No. TB-FCC163509

**GROUPSFIT Applicant** 

**Equipment Under Test (EUT)** 

**EUT Name** 13.3-INCH CONVERTIBLE NOTEBOOK

2AQOO-360C13 Model No.

: NEO360X13C4GR32 Serial Model No.

**THOMSON Brand Name** 

**Receipt Date** 2018-12-12

2018-12-12 to 2018-12-29 **Test Date** 

**Issue Date** 2019-01-02

: FCC Part 15: 2018, Subpart C(15.247) **Standards** 

**Test Method** ANSI C63.10: 2013

**Conclusions** : PASS

In the configuration tested, the EUT complied with the standards specified above,

Test/Witness

Engineer Jason Xu

**Engineer** 

Supervisor Ivan Su

**Engineer Manager** Rav Lai

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

Tel: +86 75526509301



Page: 2 of 46

# Contents

CON	ITENTS	2
1.	GENERAL INFORMATION ABOUT EUT	5
	1.1 Client Information	5
	1.2 General Description of EUT (Equipment Under Test)	
	1.3 Block Diagram Showing the Configuration of System Tested	
	1.4 Description of Support Units	
	1.5 Description of Test Mode	7
	1.6 Description of Test Software Setting	8
	1.7 Measurement Uncertainty	8
	1.8 Test Facility	9
2.	TEST SUMMARY	10
3.	TEST EQUIPMENT	11
4.	CONDUCTED EMISSION TEST	12
	4.1 Test Standard and Limit	12
	4.2 Test Setup	
	4.3 Test Procedure	
	4.4 EUT Operating Mode	13
	4.5 Test Da5ta	
5.	RADIATED EMISSION TEST	14
	5.1 Test Standard and Limit	14
	5.2 Test Setup	
	5.3 Test Procedure	
	5.4 EUT Operating Condition	17
	5.5 Test Data	17
6.	RESTRICTED BANDS REQUIREMENT	18
	6.1 Test Standard and Limit	18
	6.2 Test Setup	18
	6.3 Test Procedure	18
	6.4 EUT Operating Condition	19
	6.5 Test Data	19
7.	BANDWIDTH TEST	20
	7.1 Test Standard and Limit	20
	7.2 Test Setup	
	7.3 Test Procedure	20
	7.4 EUT Operating Condition	20
	7.5 Test Data	20
8.	PEAK OUTPUT POWER TEST	21
	8.1 Test Standard and Limit	21
	8.2 Test Setup	21



Page: 3 of 46

	8.3 Test Procedure	21
	8.4 EUT Operating Condition	21
	8.5 Test Data	21
9.	POWER SPECTRAL DENSITY TEST	22
	9.1 Test Standard and Limit	
	9.2 Test Setup	22
	9.3 Test Procedure	22
	9.4 EUT Operating Condition	22
	9.5 Test Data	22
10.	ANTENNA REQUIREMENT	23
	10.1 Standard Requirement	23
	10.2 Antenna Connected Construction	23
	10.3 Result	23
ATT	ACHMENT A CONDUCTED EMISSION TEST DATA	24
ATT	ACHMENT B RADIATED EMISSION TEST DATA	28
	ACHMENT C RESTRICTED BANDS REQUIREMENT TEST DATA	
	ACHMENT D BANDWIDTH TEST DATA	
ATT	ACHMENT E PEAK OUTPUT POWER TEST DATA	43
ATT	ACHMENT F POWER SPECTRAL DENSITY TEST DATA	45



Page: 4 of 46

# **Revision History**

Report No.	Version	Description	Issued Date
TB-RF163509	Rev.01	Initial issue of report	2019-01-02
			mon.
	1000		
a Million	COLUMN TO SERVICE STATE OF THE PERSON AND PE		Com
De la Contraction de la Contra	3	6033	OD A
Contract of the Contract of th	33 6	OBS TOTAL	TO THE REAL PROPERTY.
	((()))	TOO TO	
100			
000		The state of the s	
a min		WUBA WORK	
		TODA TO	
The same of the sa	33 4	Dis Tours	THE PARTY OF



Page: 5 of 46

# 1. General Information about EUT

## 1.1 Client Information

Applicant		GROUPSFIT
Address :		80/84 route de la Libération 77340 PONTAULT COMBAULT, France
Manufacturer		SEMMAX(HONGKONG)LIMITED
Address		Room 01,21/F,Prosper Commercial Building 9 Yin Chong Street,Kowloon,HongKong, China

# 1.2 General Description of EUT (Equipment Under Test)

EUT Name	1	13.3-INCH CONVERTIBLE NOTEBOOK		
Models No.		2AQOO-360C13,NEO360X13C4GR32		
Model Difference		All these models are identical in the same PCB layout and electrical i		
		Operation Frequency:	Bluetooth (BLE): 2402MHz~2480MHz	
	1/1	Number of Channel:	Bluetooth (BLE): 40 channels see note(3)	
Product		RF Output Power:	2.151dBm Conducted Power	
Description	13	Antenna Gain:	1.87 dBi FPC Antenna	
Die Co	N. Sand	Modulation Type:	GFSK	
	3	Bit Rate of Transmitter:	1Mbps(GFSK)	
Power Rating  AC/DC Adapter (B224-125): Input: AC 100~240V, 50/60Hz, 0.6A. Output: DC 12V, 2.0A. DC 7.6V by 4000mAh Li-ion battery.		0/60Hz, 0.6A.		
Software Version		WIN10		
Hardware Version	÷	P313J-V12		
Connecting I/O Port(S)	:	Please refer to the User's Manual		

#### Note:

This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01v05.

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



Page: 6 of 46

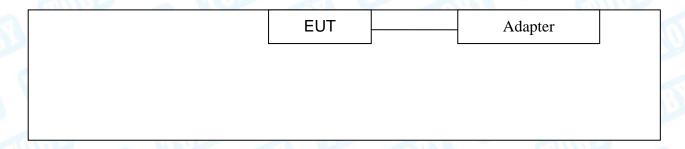
(2) Antenna information provided by the applicant.

## (3) Channel List:

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

# 1.3 Block Diagram Showing the Configuration of System Tested

# Adapter + TX Mode



# 1.4 Description of Support Units

	NI WILLIAM						
	Equipment Information						
Name	Model	FCC ID/VOC	Manufacturer	Used "√"			
J (				3 (			
	Lin Dra			CAT PAGE			
Cable Information							
Number	Shielded Type	Ferrite Core	Length	Note			



Page: 7 of 46

The Table 1974		 W

### 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test				
Final Test Mode Description				
Mode 1	Supply electricity + TX Mode			

For Radiated Test				
Final Test Mode	Description			
Mode 2	Supply electricity + TX Mode			
Mode 3	Supply electricity + TX Mode (Channel 00/20/39)			

#### Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

BLE Mode: GFSK Modulation Transmitting mode.

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



Page: 8 of 46

# 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	ISRT.exe		
Frequency	2402 MHz	2442MHz	2480 MHz
GFSK	DEF	DEF	DEF

# 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Padiated Emission	Level Accuracy:	±4.60 dB
Radiated Emission	9kHz to 30 MHz	±4.60 db
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Effission	30MHz to 1000 MHz	±4.40 db
Radiated Emission	Level Accuracy:	±4,20 dB
Radiated Emission	Above 1000MHz	±4.20 UB



Page: 9 of 46

## 1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

#### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

FCC Accredited Test Site Number: 854351.

### IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.



Page: 10 of 46

# 2. Test Summary

Standard Section		Took House	The large and		
FCC	IC	Test Item	Judgment	Remark	
15.203		Antenna Requirement	PASS	N/A	
15.207(a)	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A	
15.205&15.247(d)	RSS-GEN 7.2.2	Band-Edge & Unwanted Emissions into Restricted Frequency	PASS	N/A	
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A	
15.247(b)(3)	RSS 247 5.4 (4)	Conducted Max Output Power	PASS	N/A	
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A	
15.205, 15.209&15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious &Unwanted Emissions into Restricted Frequency	PASS	N/A	

**Note:** N/A is an abbreviation for Not Applicable.



Page: 11 of 46

# 3. Test Equipment

Conducted Emiss	ion Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul.18, 2018	Jul. 17, 2019
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul.18, 2018	Jul. 17, 2019
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul.18, 2018	Jul. 17, 2019
LISN	Rohde & Schwarz	ENV216	101131	Jul.18, 2018	Jul. 17, 2019
Radiation Emission	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul.18, 2018	Jul. 17, 2019
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul.18, 2018	Jul. 17, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.16, 2018	Mar. 15, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.16, 2018	Mar. 15, 2019
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 15, 2018	Jul. 14, 2019
Pre-amplifier	Sonoma	310N	185903	Mar.16, 2018	Mar. 15, 2019
Pre-amplifier	HP	8449B	3008A00849	Mar.16, 2018	Mar. 15, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.16, 2018	Mar. 15, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducto	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul.18, 2018	Jul. 17, 2019
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul.18, 2018	Jul. 17, 2019
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 15, 2018	Sep. 14, 2019
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 15, 2018	Sep. 14, 2019
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 15, 2018	Sep. 14, 2019
DE Day O	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 15, 2018	Sep. 14, 2019
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 15, 2018	Sep. 14, 2019
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 15, 2018	Sep. 14, 2019



Page: 12 of 46

# 4. Conducted Emission Test

#### 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

#### 4.1.2 Test Limit

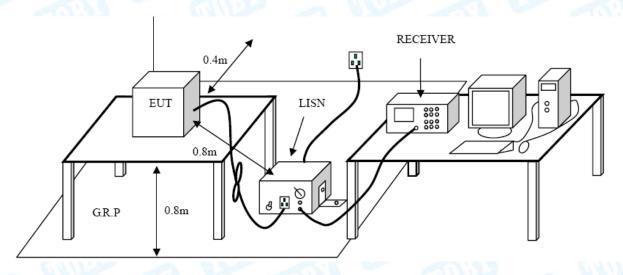
#### **Conducted Emission Test Limit**

	Maximum RF Line Voltage (dBμV)			
Frequency	Quasi-peak Level	Average Level		
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

#### Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## 4.2 Test Setup



#### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



Page: 13 of 46

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

## 4.4 EUT Operating Mode

Please refer to the description of test mode.

### 4.5 Test Da5ta

Please refer to the Attachment A.



Page: 14 of 46

# 5. Radiated Emission Test

## 5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.247(d)

5.1.2 Test Limit

### Radiated Emission Limits (9kHz~1000MHz)

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

## Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Meters(at 3m)		
(MHz)	Peak (dBuV/m)	Average (dBuV/m)	
Above 1000	74	54	

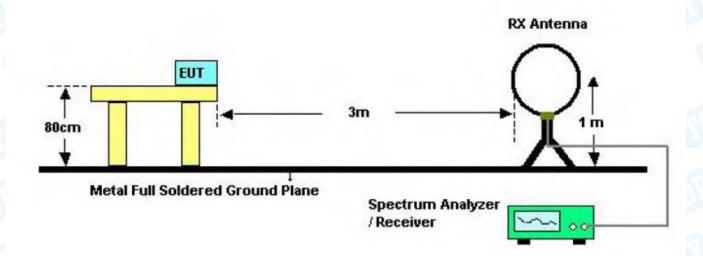
#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

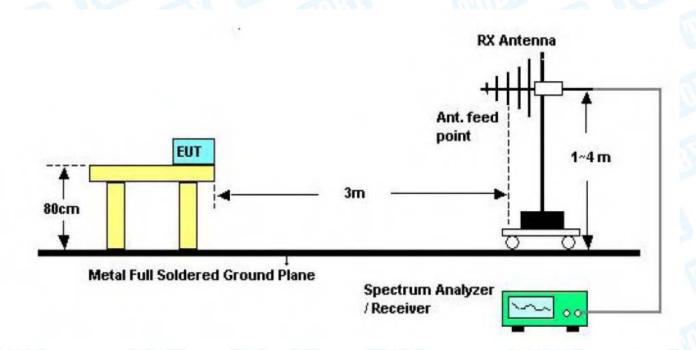


Page: 15 of 46

# 5.2 Test Setup



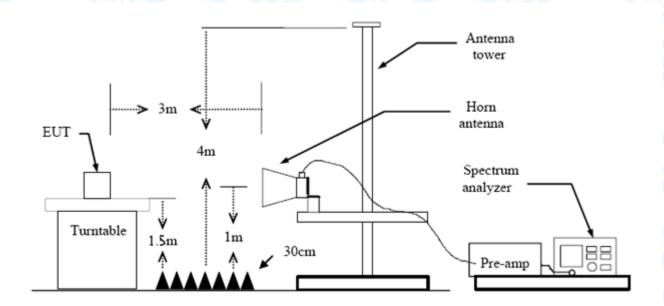
Below 30MHz Test Setup



Below 1000MHz Test Setup



Page: 16 of 46



Above 1GHz Test Setup

#### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



Page: 17 of 46

# 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

### 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.



Page: 18 of 46

# 6. Restricted Bands Requirement

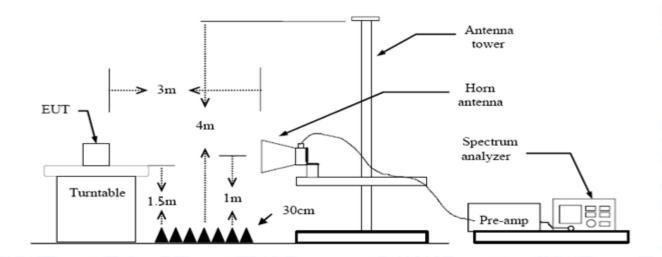
#### 6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.247(d) FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Distance Meters(at 3m)			
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)		
2310 ~2390	74	54		
2483.5 ~2500	74	54		

### 6.2 Test Setup



#### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector



Page: 19 of 46

mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

#### 6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment C.



Page: 20 of 46

# 7. Bandwidth Test

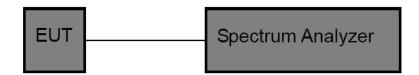
#### 7.1 Test Standard and Limit

7.1.1 Test Standard FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC P	art 15 Subpart C(15.247)/I	RSS-247
Test Item	Limit	Frequency Range(MHz)
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

## 7.2 Test Setup



#### 7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

# 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

#### 7.5 Test Data

Please refer to the Attachment D.



Page: 21 of 46

# 8. Peak Output Power Test

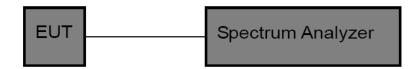
### 8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (b)(3)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247					
Test Item	Limit	Frequency Range(MHz)			
Peak Output Power	1 Watt or 30 dBm	2400~2483.5			

# 8.2 Test Setup



#### 8.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to section 9.1.1 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) Set the RBW≥DTS Bandwidth
- (2) Set VBW≥3\*RBW
- (3) Set Span≥3\*RBW
- (4) Sweep time=auto
- (5) Detector= peak
- (6) Trace mode= maxhold.
- (7) Allow trace to fully stabilize, and then use peak marker function to determine the peak amplitude level.

# 8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

### 8.5 Test Data

Please refer to the Attachment E.



Page: 22 of 46

# 9. Power Spectral Density Test

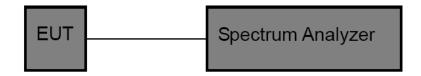
#### 9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FC	CC Part 15 Subpart C(15.2	47)
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

## 9.2 Test Setup



### 9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz(5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

# 9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### 9.5 Test Data

Please refer to the Attachment F.



Page: 23 of 46

# 10. Antenna Requirement

# 10.1 Standard Requirement

10.1.1 Standard FCC Part 15.203

### 10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 10.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 1.87dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

#### 10.3 Result

The EUT antenna is a FPC Antenna. It complies with the standard requirement.

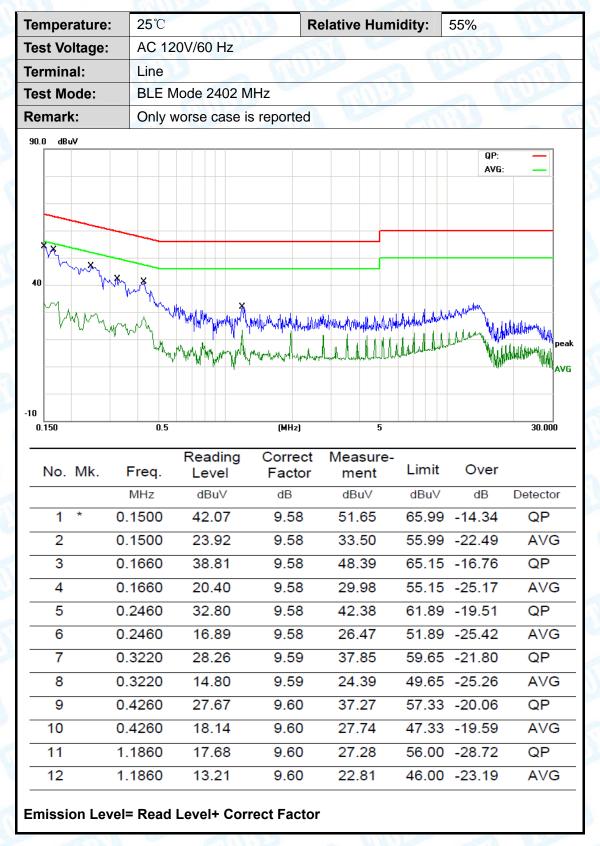
Antenna Type	
⊠Permanent attached antenna	
Unique connector antenna	Will be
☐Professional installation antenna	Of The same





Page: 24 of 46

# **Attachment A-- Conducted Emission Test Data**





Page: 25 of 46

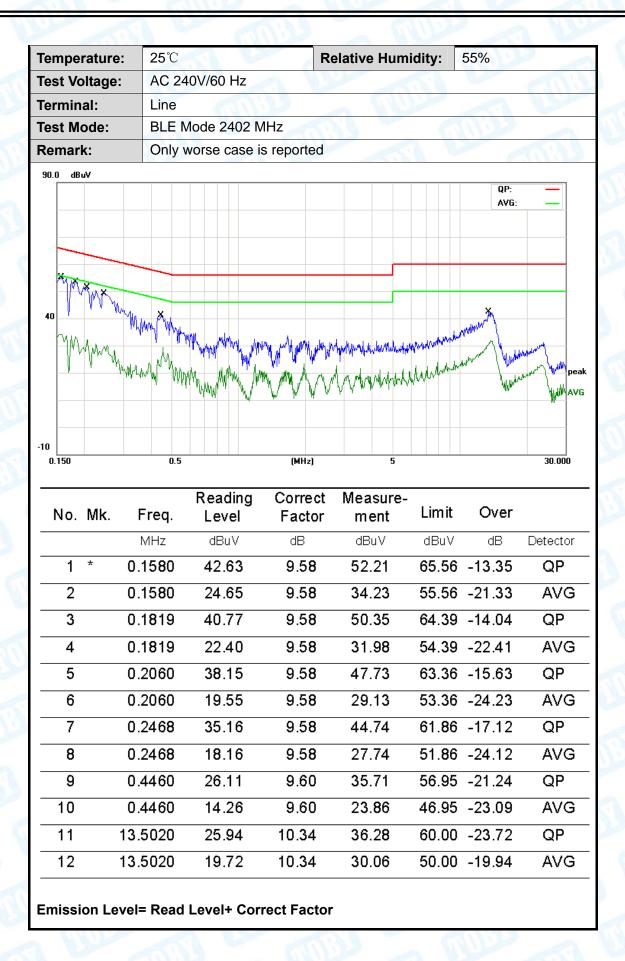


Temperature:	25℃			Relative H	umidity:	55%	
Test Voltage:	AC 12	0V/60 Hz	NO T	- OIII		1	Alle
Terminal:	Neutra	ı	100		GU	1130	
Test Mode:	BLE M	lode 2402 i	MHz				
Remark:	Only v	orse case	is reported	MILE		a 1	RUL
90.0 dBuV	Man		gitageright the transportation	Marity Property And State of S	ay parte de la desta	QP: AVG:	peal AVG
0.150	0.5		(MHz)	5			30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 * 0	).1580	41.56	9.64	51.20	65.56	-14.36	QP
2 (	).1580	23.78	9.64	33.42	55.56	-22.14	AVG
3 (	).1758	38.62	9.65	48.27	64.68	-16.41	QP
4 (	).1758	20.65	9.65	30.30	54.68	-24.38	AVG
5 0	0.2580	34.02	9.60	43.62	61.49	-17.87	QP
6 (	0.2580	20.58	9.60	30.18	51.49	-21.31	AVG
7 (	0.3379	29.39	9.57	38.96	59.25	-20.29	QP
8 0	0.3379	16.49	9.57	26.06	49.25	-23.19	AVG
	0.4260	29.34	9.58	38.92	57.33	-18.41	QP
	0.4260	19.68	9.58	29.26	47.33		AVG
	3.2900	18.21	10.48	28.69	60.00		QP
	3.2900	11.34	10.48	21.82	50.00		AVG
Emission Leve							



Page: 26 of 46







27 of 46 Page:

Temperature	e: 25°C			Relative Hu	ımidity:	55%	
Test Voltage	: AC 2	240V/60 Hz	33	= OHI	1		A British
Terminal:	Neut	ral			CIT!	1133	
Test Mode:	BLE	Mode 2402	MHz		1 6		M
Remark:	Only	worse case	is reported	WW.		a W	
90.0 dBuV							
X X						QP: AVG:	<u>=</u>
10		WITH AND THE PARTY OF THE PARTY	<b>\</b> \^\\\^\\		der de de de de de de de	represent to the desired	WAN AL
0.150	0.5		(MHz)	5			30.000
		Desdisse	Λ				
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
No. Mk.	Freq.	_				<b>Over</b>	Detect
No. Mk.	<u> </u>	Level	Factor	ment	<b>Limit</b> dBuV		
	MHz	<b>Level</b> dBuV	Factor dB	<b>ment</b> dBuV	<b>Limit</b> dBuV	dB	QP
1 *	MHz 0.1580	dBuV 41.62	Factor dB 9.64	ment dBuV 51.26	Limit  dBu√  65.56  55.56	dB -14.30	QP AV
1 * 2 3	0.1580 0.1580 0.1580	dBuV 41.62 24.99 39.95	9.64 9.65	ment dBuV 51.26 34.63 49.60	dBuV 65.56 55.56 64.39	dB -14.30 -20.93 -14.79	QP AV
1 * 2 3 4	0.1580 0.1580 0.1819 0.1819	Level  dBuV  41.62  24.99  39.95  23.08	9.64 9.65 9.65	ment dBuV 51.26 34.63 49.60 32.73	dBuV 65.56 55.56 64.39 54.39	dB -14.30 -20.93 -14.79 -21.66	QP AV
1 * 2 3 4 5	0.1580 0.1580 0.1819 0.1819 0.2140	Level  dBu√  41.62  24.99  39.95  23.08  35.20	9.64 9.65 9.64 9.65	ment dBuV 51.26 34.63 49.60 32.73 44.84	dBuV 65.56 55.56 64.39 54.39 63.04	dB -14.30 -20.93 -14.79 -21.66 -18.20	QP AV QP AV
1 * 2 3 4 5	0.1580 0.1580 0.1819 0.1819 0.2140 0.2140	Level  dBuV  41.62  24.99  39.95  23.08  35.20  16.63	9.64 9.65 9.64 9.65 9.64 9.64	ment dBuV 51.26 34.63 49.60 32.73 44.84 26.27	Limit  dBuV  65.56  55.56  64.39  54.39  63.04  53.04	dB -14.30 -20.93 -14.79 -21.66 -18.20 -26.77	QP AV QP AV
1 * 2 3 4 5 6 7	0.1580 0.1580 0.1819 0.1819 0.2140 0.2140 0.2500	Level  dBuV  41.62  24.99  39.95  23.08  35.20  16.63  34.75	9.64 9.64 9.65 9.65 9.64 9.64 9.61	ment dBuV 51.26 34.63 49.60 32.73 44.84 26.27 44.36	Limit  dBuV  65.56  55.56  64.39  54.39  63.04  53.04  61.75	-14.30 -20.93 -14.79 -21.66 -18.20 -26.77 -17.39	QP AVG QP AVG QP QP
1 * 2 3 4 5 6 7	0.1580 0.1580 0.1819 0.1819 0.2140 0.2140 0.2500	Level  dBuV  41.62  24.99  39.95  23.08  35.20  16.63  34.75  19.12	9.64 9.64 9.65 9.65 9.64 9.64 9.61	ment  dBuV  51.26  34.63  49.60  32.73  44.84  26.27  44.36  28.73	Limit  dBuV  65.56  55.56  64.39  54.39  63.04  53.04  61.75  51.75	dB -14.30 -20.93 -14.79 -21.66 -18.20 -26.77 -17.39 -23.02	QP AVG QP AVG QP AVG
1 * 2 3 4 5 6 7 8	0.1580 0.1580 0.1819 0.1819 0.2140 0.2140 0.2500 0.2500 0.4540	Level  dBuV  41.62  24.99  39.95  23.08  35.20  16.63  34.75  19.12  29.52	9.64 9.64 9.65 9.65 9.64 9.64 9.61 9.58	ment  dBuV  51.26  34.63  49.60  32.73  44.84  26.27  44.36  28.73  39.10	Limit  dBuV  65.56  55.56  64.39  54.39  63.04  53.04  61.75  51.75  56.80	dB -14.30 -20.93 -14.79 -21.66 -18.20 -26.77 -17.39 -23.02 -17.70	QP AVO QP AVO QP AVO QP
1 * 2 3 4 5 6 7	0.1580 0.1580 0.1819 0.1819 0.2140 0.2140 0.2500	Level  dBuV  41.62  24.99  39.95  23.08  35.20  16.63  34.75  19.12	9.64 9.64 9.65 9.65 9.64 9.64 9.61	ment  dBuV  51.26  34.63  49.60  32.73  44.84  26.27  44.36  28.73	Limit  dBuV  65.56  55.56  64.39  54.39  63.04  53.04  61.75  51.75  56.80	dB -14.30 -20.93 -14.79 -21.66 -18.20 -26.77 -17.39 -23.02	QP AVC QP AVC QP AVC
1 * 2 3 4 5 6 7 8 9	0.1580 0.1580 0.1819 0.1819 0.2140 0.2140 0.2500 0.2500 0.4540	Level  dBuV  41.62  24.99  39.95  23.08  35.20  16.63  34.75  19.12  29.52	9.64 9.64 9.65 9.65 9.64 9.64 9.61 9.58	ment  dBuV  51.26  34.63  49.60  32.73  44.84  26.27  44.36  28.73  39.10	Limit  dBuV  65.56  55.56  64.39  54.39  63.04  53.04  61.75  51.75  56.80  46.80	dB -14.30 -20.93 -14.79 -21.66 -18.20 -26.77 -17.39 -23.02 -17.70	QP AV QP AV QP AV QP AV



Page: 28 of 46

# **Attachment B-- Radiated Emission Test Data**

#### 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB

Below the permissible value has no need to be reported.

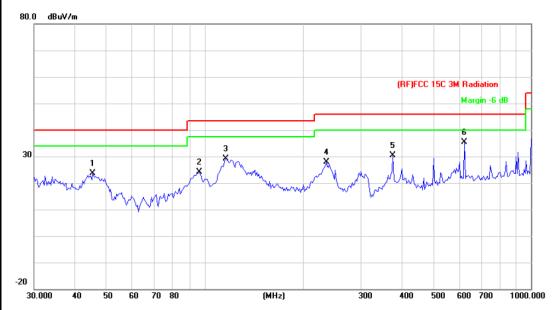
### 30MHz~1GHz

Temperati	ure:	25℃		CHILD	Relative Hun	nidity:	55%	M
est Volta	ge:	AC 120	0V/60HZ		MINIS		CHIL	A STATE OF THE PARTY OF THE PAR
Ant. Pol.		Horizo	ntal		Pro-	MAN A		677
Test Mode	<b>)</b> :	BLE T	X 2402 Mod	de	1	1		1 6
Remark:		Only w	orse case i	s reported	THE STATE	_ (	Aller	
80.0 dBuV/m	1							
						(REJECC 15C	3M Radiation Margin -6 d	В
						4	5	<u>Б</u>
30					3	1	×	
30			1	2 X	mon		MLIN	July
whom			1 1 m	y wh		- Alle	) ****	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mon	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	war.	"VayAA				
-20 30.000 4	10 50	60 70	80	(MHz)	300	400 500	600 700	1000.000
30.000	70 30		00	(11112)	300	400 300	000 100	1000.000
NI- M	II. I	<b>-</b>	Reading	Correct	Measure-	Limit	Over	
No. M		Freq.	Level	Factor	ment			5
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detecto
1		5.3205	42.42	-22.36	20.06	43.50	-23.44	QP
2	179	9.3863	43.85	-20.19	23.66	43.50	-19.84	QP
3	249	9.4250	48.37	-17.21	31.16	46.00	-14.84	QP
4	377	7.2591	52.62	-13.32	39.30	46.00	-6.70	QP
5	750	0.1083	43.60	-6.57	37.03	46.00	-8.97	QP
6 *	88	1.4067	45.62	-4.31	41.31	46.00	-4.69	QP
0								



Page: 29 of 46

Temperature:	25℃	Relative Humidity:	55%							
Test Voltage:	AC 120V/60HZ	AC 120V/60HZ								
Ant. Pol.	Vertical									
Test Mode:	BLE TX 2402 Mode									
Remark:	Only worse case is reporte	ed	THE PARTY OF THE P							



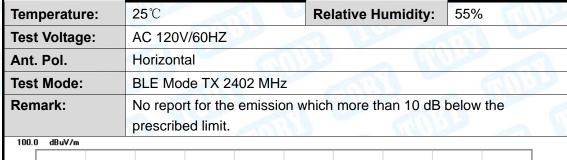
Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
	45.3755	45.29	-21.70	23.59	40.00	-16.41	QP
	96.0986	46.24	-22.05	24.19	43.50	-19.31	QP
	116.1321	51.36	-22.35	29.01	43.50	-14.49	QP
	235.8164	45.88	-17.97	27.91	46.00	-18.09	QP
	377.2591	43.66	-13.32	30.34	46.00	-15.66	QP
*	625.0780	43.68	-8.32	35.36	46.00	-10.64	QP
		MHz 45.3755 96.0986 116.1321 235.8164 377.2591	Mk. Freq. Level  MHz dBuV  45.3755 45.29  96.0986 46.24  116.1321 51.36  235.8164 45.88  377.2591 43.66	Mk.         Freq.         Level         Factor           MHz         dBuV         dB/m           45.3755         45.29         -21.70           96.0986         46.24         -22.05           116.1321         51.36         -22.35           235.8164         45.88         -17.97           377.2591         43.66         -13.32	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB/m         dBuV/m           45.3755         45.29         -21.70         23.59           96.0986         46.24         -22.05         24.19           116.1321         51.36         -22.35         29.01           235.8164         45.88         -17.97         27.91           377.2591         43.66         -13.32         30.34	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dBuV         dBuV/m         dBuV/m           45.3755         45.29         -21.70         23.59         40.00           96.0986         46.24         -22.05         24.19         43.50           116.1321         51.36         -22.35         29.01         43.50           235.8164         45.88         -17.97         27.91         46.00           377.2591         43.66         -13.32         30.34         46.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dBuV         dBuV/m         dBuV/m         dBuV/m         dB           45.3755         45.29         -21.70         23.59         40.00         -16.41           96.0986         46.24         -22.05         24.19         43.50         -19.31           116.1321         51.36         -22.35         29.01         43.50         -14.49           235.8164         45.88         -17.97         27.91         46.00         -18.09           377.2591         43.66         -13.32         30.34         46.00         -15.66

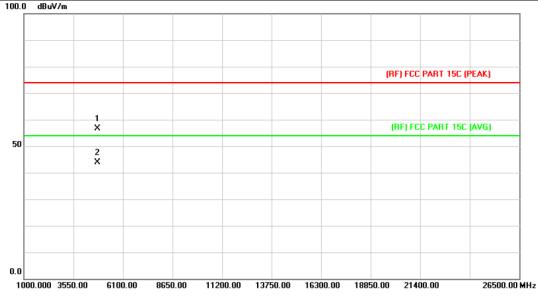
<sup>\*:</sup>Maximum data x:Over limit !:over margin



Page: 30 of 46

#### **Above 1GHz**





N	o. Mk	. Freq.	Reading Correct Me Level Factor r			Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4805.500	42.09	14.44	56.53	74.00	-17.47	peak
2	*	4805.500	29.53	14.44	43.97	54.00	-10.03	AVG



1000.000 3550.00

Report No.: TB-FCC163509

26500.00 MHz

Page: 31 of 46

Temperature:	<b>25</b> ℃	Relative Humidity: 55%								
Test Voltage:	AC 120V/60HZ									
Ant. Pol.	Vertical									
Test Mode:	BLE Mode TX 240	BLE Mode TX 2402 MHz								
Remark:	prescribed limit.	emission which more than 10 dB below the								
I DOVE THE PROPERTY OF THE PRO										
		(RF) FCC PART 15C (PEAK)								
2 X		(RF) FCC PART 15C (AVG)								
50 1										
×										

١	No. Mk.		Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4802.500	29.21	14.42	43.63	54.00	-10.37	AVG
2			4803.046	43.44	14.42	57.86	74.00	-16.14	peak

11200.00 13750.00 16300.00 18850.00 21400.00

**Emission Level= Read Level+ Correct Factor** 

8650.00

6100.00



Page: 32 of 46

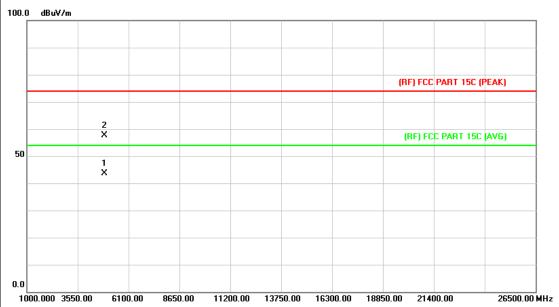
em	perature:	25℃		Relati	ve Humidity:	55%					
est	t Voltage:	AC 120V/6	60HZ		THIS IS						
۱nt.	. Pol.	Horizontal									
est	t Mode:	BLE Mode TX 2442 MHz									
Rem	nark:	No report f		on which mo	ore than 10 dB	below the					
100.0	) dBuV/m										
					(DE) ECC DA	RT 15C (PEAK)					
					(NF) FCC PAI	HT TSC (FEAK)					
	1.										
	×				(RF) FCC P	ART 15C (AVG)					
50	2 X										
0.0											
	000.000 3550.00 6°	100.00 8650.00	11200.00 137	750.00 16300.00	18850.00 21400.0	0 26500.00 MHz					

N	o. N	Mk. Freq.		Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		48	385.332	44.22	14.93	59.15	74.00	-14.85	peak
2	*	48	385.356	30.30	14.93	45.23	54.00	-8.77	AVG



Page: 33 of 46

Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	The same of the sa						
Ant. Pol.	Vertical	33	133					
Test Mode:	BLE Mode TX 2442 MHz	BLE Mode TX 2442 MHz						
Remark: No report for the emission which more than 10 dB below the prescribed limit.								
100 0 ID VI								



No	No. Mk		Freq.	Reading Correct Level Factor				Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4	4882.830	28.74	14.91	43.65	54.00	-10.35	AVG
2		4	4883.814	42.84	14.91	57.75	74.00	-16.25	peak



Page: 34 of 46

em	perature:		25℃			111	Relativ	e Humidity:	55%				
es	t Voltage:		AC 120	0V/60	HZ		_ (	HILL	A W				
۱nt	. Pol.		Horizo	rizontal									
es	t Mode:		BLE M	LE Mode TX 2480 MHz									
Ren	nark:		No rep			ission w	hich mo	re than 10 dB	below the				
100.0	) dBuV/m												
								(RF) FCC PAI	RT 15C (PEAK)				
		1											
		×						(RF) FCC PA	ART 15C (AVG)				
50		2 X											
0.0	00.000 3550.00		00.00 86	50.00	11200.00	13750.00	16300.00	18850.00 21400.0	0 26500.00 N				

	No.	Mk.	Freq.	_		Correct Measure- Factor ment		Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4960.150	44.34	15.39	59.73	74.00	-14.27	peak
2		*	4960.150	30.25	15.39	45.64	54.00	-8.36	AVG



Page: 35 of 46

emperature:	25℃	Relative Humidity:	55%				
est Voltage:	AC 120V/60HZ	60HZ					
Ant. Pol. Vertical							
est Mode:	BLE Mode TX 2480 MHz	U					
lemark:	No report for the emission which more than 10 dB below the prescribed limit.						
100.0 dBu∀/m							
		(RF) FCC PA	RT 15C (PEAK)				
1 X		(RF) FCC F	ART 15C (AVG)				
50 2 X							
×							
0.0							

No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.808	44.21	15.39	59.60	74.00	-14.40	peak
2	*	4960.474	30.64	15.40	46.04	54.00	-7.96	AVG



Page: 36 of 46

# **Attachment C-- Restricted Bands Requirement Test Data**

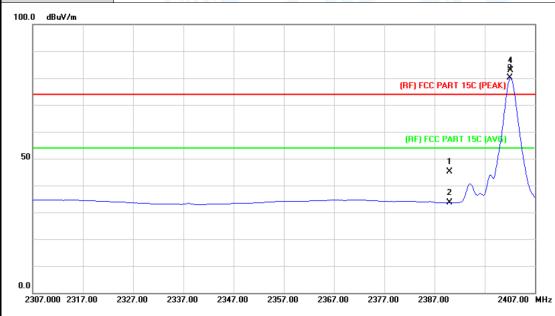
### (1) Radiation Test





Page: 37 of 46

Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60HZ	THE PARTY OF THE P	73					
Ant. Pol.	Vertical		THE STATE OF THE S					
Test Mode:	BLE Mode TX 2402 MHz							
Remark:	N/A	WIII DE	The same of the sa					
100.0 dBuV/m								



No.	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.22	2.82	45.04	74.00	-28.96	peak
2		2390.000	30.82	2.82	33.64	54.00	-20.36	AVG
3	*	2402.000	77.34	2.87	80.21	Fundamental F	Frequency	AVG
4	Χ	2402.200	80.00	2.87	82.87	Fundamental I	Frequency	peak



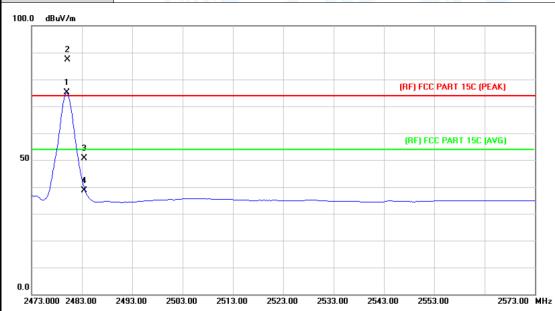
Page: 38 of 46

em	peratu	re:	25℃	The second		Relative I	Humidity:	55%	1011
est	Voltag	e:	AC 1	20V/60HZ	'NO	- CA	11.		
۱nt.	t. Pol. Horizontal								
est	Mode:		BLE	Mode TX 2	480 MHz				
Rem	ark:		N/A		3				A lease
100.0	dBuV/m								
Ì	2 X								
	1 X						(RF) FCC	PART 15C (PEAK	)
	$\Lambda$								
	-						(DE) FO	DIDT IFC (IVC	
50	/\*						(HF) FUL	PART 15C (AVG	1
	3								
	/ *				<del></del>				
ı									
0.0									
24	75.000 248	<b>15.00</b> 2	495.00	2505.00 25	15.00 2525.00	2535.00	2545.00 2555	.00 2	575.00 MH
N.I				Reading	Correct	Measure	Limit	O∨er	
	lo. Mk		eq.	Level	Factor	ment			
		MH		dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detecto
1	Х	2480.	.000	72.94	3.38	76.32	Fundamenta	l Frequency	peak
2	*	2480	.000	83.03	3.38	86.41	Fundamenta	I Frequency	AVG
3		2483	500	35.30	3.41	38.71	74.00	-35.29	peak
4		2483.	500	46.64	3.41	50.05	54.00	-3.95	AVG
7									



Page: 39 of 46

1	Temperature:	25℃	Relative Humidity:	55%				
	Test Voltage:	AC 120V/60HZ						
	Ant. Pol.	Vertical						
	Test Mode:	BLE Mode TX 2480 MHz						
ź	Remark:	N/A						



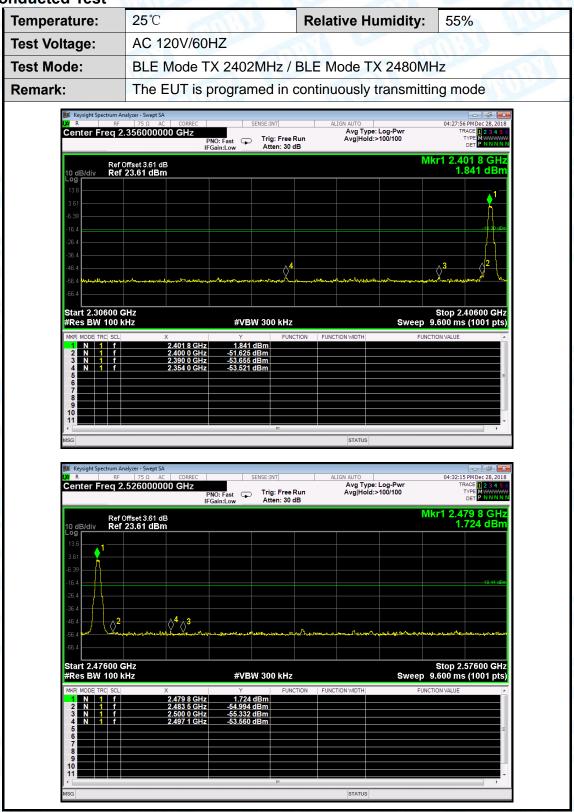
	10. N	∕lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	O∨er	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*		2480.000	71.84	3.38	75.22	Fundamental	Frequency	AVG
2	Х	(	2480.200	83.88	3.38	87.26	Fundamental	Frequency	peak
3			2483.500	47.28	3.41	50.69	74.00	-23.31	peak
4			2483.500	35.20	3.41	38.61	54.00	-15.39	AVG



Report No.: TB-FCC163509 40 of 46



### (2) Conducted Test





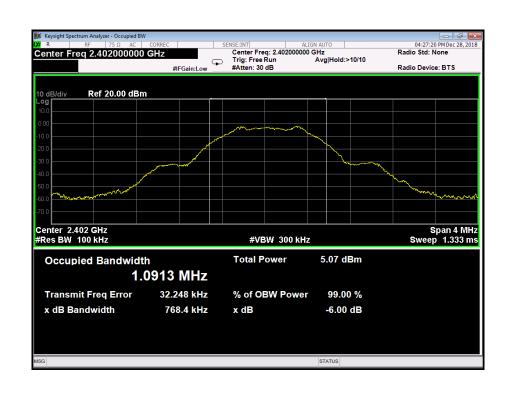
Page: 41 of 46

# **Attachment D-- Bandwidth Test Data**

Temperature:	25℃		Relative Humidity:	55%			
Test Voltage:	AC 1	AC 120V/60HZ					
Test Mode:	BLE						
Channel frequency		6dB Bandwidth	6dB Bandwidth 99% Bandwidth				
(MHz)		(kHz)	(kHz) (kHz)				
2402		2402 768.4					
2442		2442 804.0		>=500			
2480		785.1	1102.7				

#### **BLE Mode**

#### 2402 MHz





Page: 42 of 46





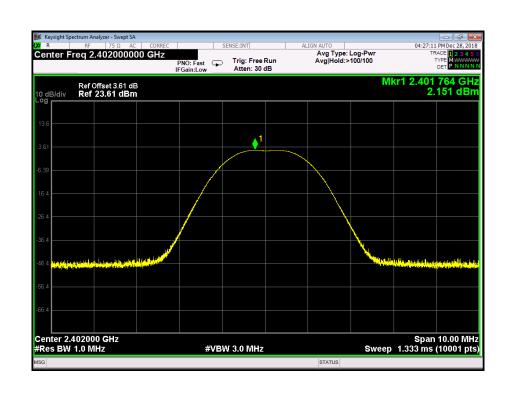
Page: 43 of 46

# **Attachment E-- Peak Output Power Test Data**

Temperature: 25°C			<b>Relative Humidity:</b> 55%				
Test Voltage:	AC 120V/	AC 120V/60HZ					
Test Mode:	BLE TX M	BLE TX Mode					
Channel frequen	cy (MHz)	Test Res	ult (dBm)	Limit (dBm)			
2402	2402		51				
2442	2442		63	30			
2480		1.978					
BLE Mode							

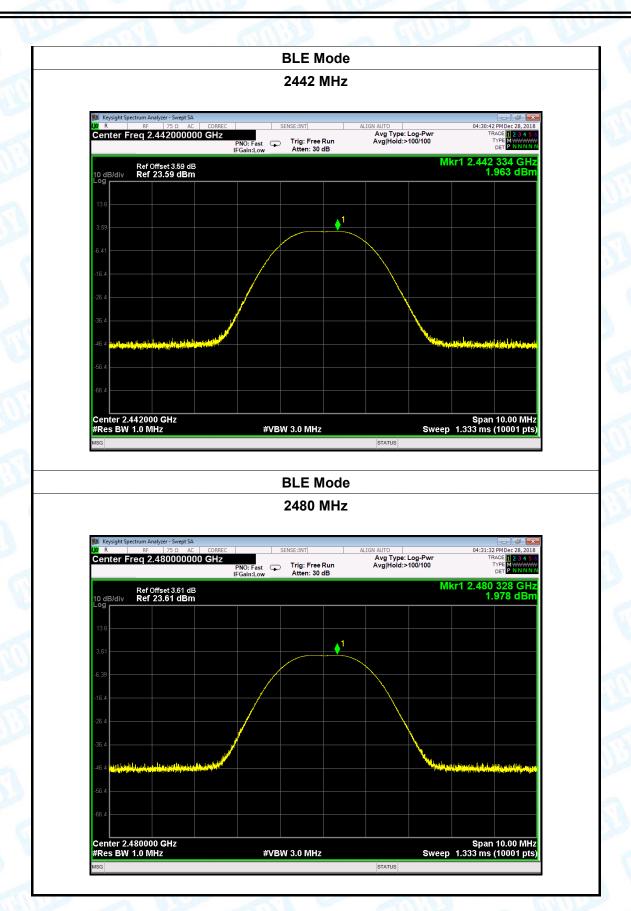
DLL MOGC

2402 MHz





Page: 44 of 46





Temperature: 25°C

Report No.: TB-FCC163509

45 of 46 Page:

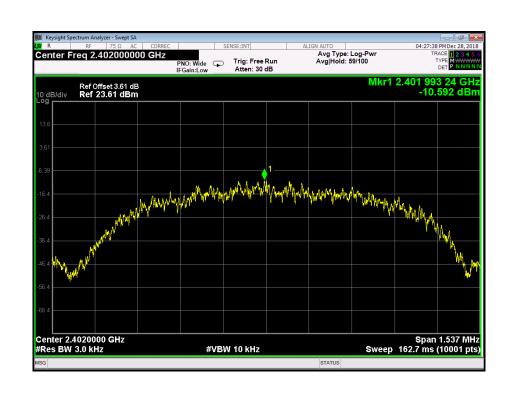
Relative Humidity: 55%

# **Attachment F-- Power Spectral Density Test Data**

	Test Voltage:	AC 120V/60HZ						
	Test Mode:	BLE TX N	Mode	0	100			
	Channel Frequency (MHz)		Power Density	Limit	Result			
			(dBm/3KHz)	(dBm/3KHz)	Result			
	2402		-10.592					
	2442		-10.802	8	PASS			
	2480		-10.831					
			BI F Mode					

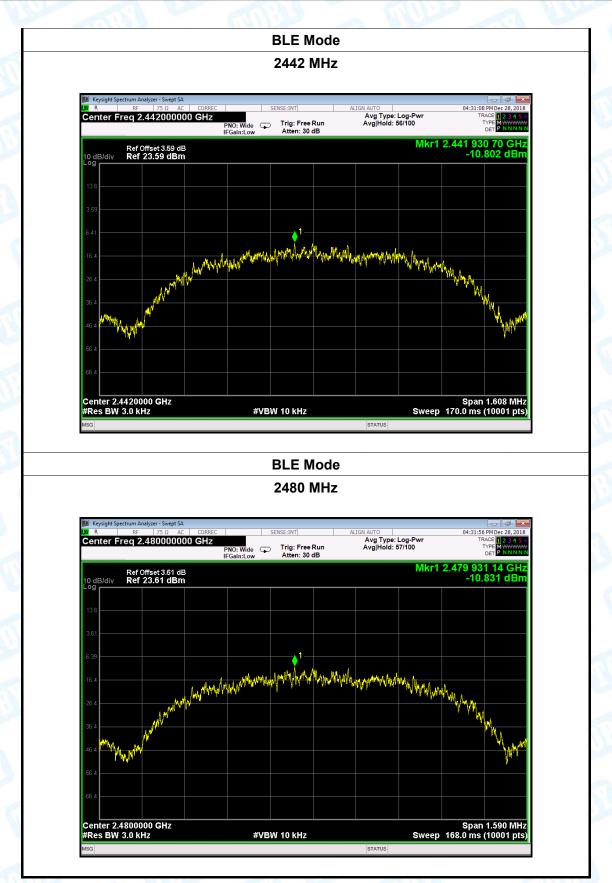
**BLE Mode** 

2402 MHz





Page: 46 of 46



----END OF REPORT-----