

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC157895

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FCC Radio Test Report FCC ID: 2AOSK-CUH01

Original Grant

Report No. TB-FCC157895

Applicant iDoc Holdings, Inc.

Equipment Under Test (EUT)

EUT Name Android tablet

Model No. WF3202T-B01

Serial Model No. Please see the page of 5

Brand Name CheckedUp

Receipt Date 2018-01-10

2018-01-11 to 2018-01-15 **Test Date**

Issue Date 2018-01-16

FCC Part 15: 2017, 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

Approved& **Authorized**

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

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Revision History

Report No.	Version	Description	Issued Date
TB-RF157895	Rev.01	Initial issue of report	2018-01-16
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1. General Information about EUT

1.1 Client Information

Applicant : iDoc Holdings, Inc.		iDoc Holdings, Inc.
Address : 1951 NW 7th Avenue, Suite #300, Miami, FL 33136		1951 NW 7th Avenue, Suite #300, Miami, FL 33136
Manufacturer : SH		SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Address : Bld.2, Yingfeng Industrial Zone, Tantou Community, Son Bao'an, Shenzhen, China		Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name		Android tablet		
Models No.	:	WF3202T-B01, WF240XT-XYY, WF270XT-XYY, WF320XT-XYY WF430XT-XYY, WF550XT-XYY(The 1st X is "0-9",and T is "A- represent the software version; The 2nd X is A-Z represents the YY is client number from "01" to "50")		
Model Difference			entical in the same PCB layout and electrical ce is software version, color and client number.	
	M	Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz	
		Number of Channel:	Bluetooth 4.0(BLE): 40 channels see note(3)	
Product		RF Output Power:	4.324 dBm Conducted Power	
Description		Antenna Gain:	1.14dBi FPC Antenna	
		Modulation Type:	GFSK	
		Bit Rate of Transmitter:	1Mbps(GFSK)	
Power Supply		DC Voltage supplied by AC/DC Adapter		
Power Rating	: AC/DC Adapter(NBS65A120500BS): Input:100-240V~, 50/60Hz, 1.5A Output: DC 12V, 5A			
Connecting I/O Port(S)				

Note:

This Test Report is FCC Part 15.247 for BLE, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v04.

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (2) Antenna information provided by the applicant.



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(3) Channel List:

			T		T
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 EUT

1.4 Description of Support Units

The EUT has been test as an independent unit.



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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	Charging + TX Mode			

For Radiated Test					
Final Test Mode	Description				
Mode 2	TX Mode				
Mode 3	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.



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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 Ampak TestTool			
Frequency	2402 MHz	2442MHz	2480 MHz
BLE 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 _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Radiated Emission	Level Accuracy:	±4.60 dB
Radiated Ellission	9kHz to 30 MHz	±4.00 dB
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Effilssion	30MHz to 1000 MHz	±4.40 UB
Radiated Emission	Level Accuracy:	±4,20 dB
Naulateu EIIIISSIUII	Above 1000MHz	±4.20 UD



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1.8 Test Facility

The testing report were 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.

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.



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2. Test Summary

Standard S	Section	Took Itam	ludana ant	Remark
FCC	IC	Test Item	Judgment Remar	
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 15.247(a)(2) RSS 247 5.2 (1) RSS 247 5.4 (4) RSS 247 5.4 (4) RSS 247 5.2 (2)		Band-Edge & Unwanted Emissions into Restricted Frequency	PASS	N/A
		6dB Bandwidth	PASS	N/A
		Conducted Max Output Power	PASS	N/A
		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.



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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. 20, 2017	Jul. 19, 2018
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 20, 2017	Jul. 19, 2018
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 20, 2017	Jul. 19, 2018
LISN	Rohde & Schwarz	ENV216	101131	Jul. 21, 2017	Jul. 20, 2018
Radiation Emission	n Test				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	С	Jul. 19, 2018
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 20, 2017	Jul. 19, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.25, 2017	Mar. 24, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conduct	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 20, 2017	Jul. 19, 2018
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Oct. 26, 2017	Oct. 25, 2018
Vector Signal Generator	Agilent	N5182A	MY50141294	Oct. 26, 2017	Oct. 25, 2018
Analog Signal Generator	Agilent	N5181A	MY50141953	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Oct. 26, 2017	Oct. 25, 2018
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Oct. 26, 2017	Oct. 25, 2018
TA TOWER DERISOR	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Oct. 26, 2017	Oct. 25, 2018



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

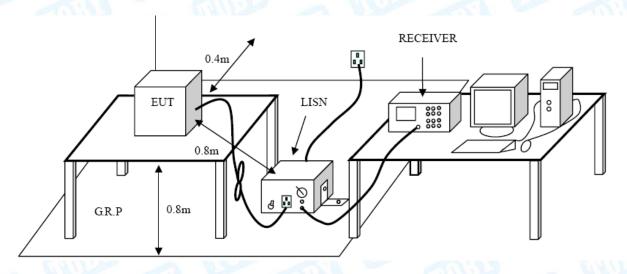
Conducted Emission Test Limit

Eroguanav	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.



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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.



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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 Met	ers(at 3m)
(MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

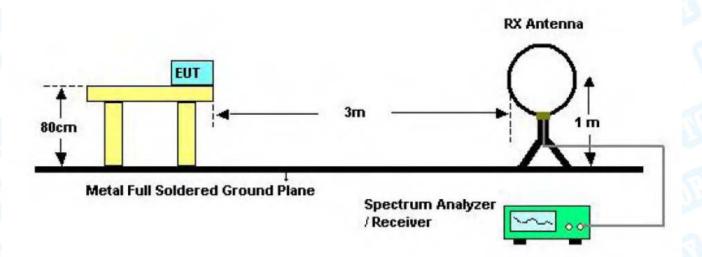
Note:

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

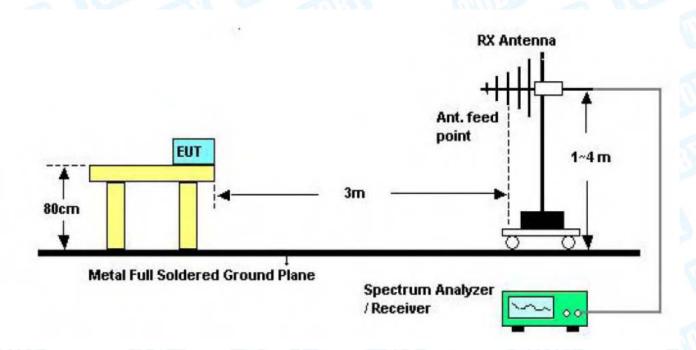


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5.2 Test Setup



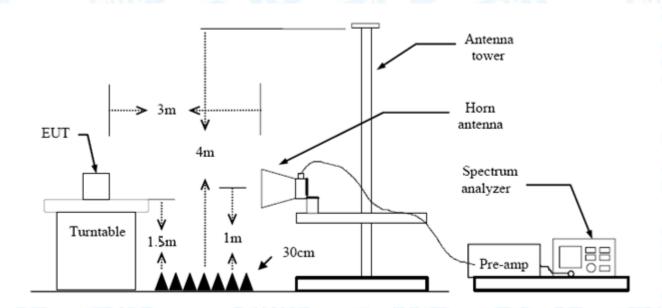
Below 30MHz Test Setup



Below 1000MHz Test Setup



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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.



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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.



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6. Restricted Bands Requirement

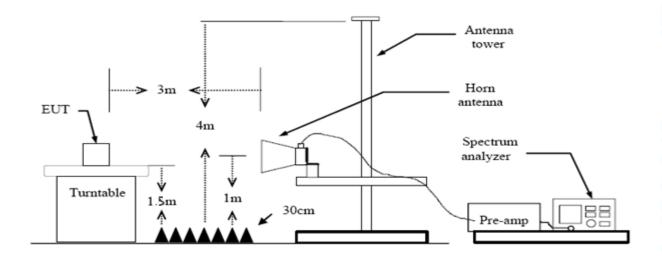
6.1 Test Standard and Limit

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



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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.



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7. Bandwidth Test

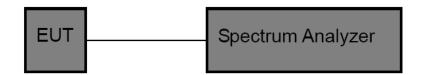
7.1 Test Standard and Limit

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

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247					
Test Item	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.



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8. Peak Output Power Test

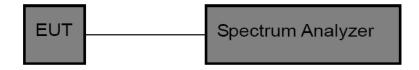
8.1 Test Standard and Limit

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.



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9. Power Spectral Density Test

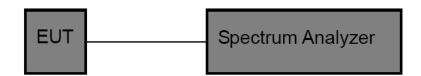
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)					
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.



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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 directional gains of the antenna used for transmitting is 1.14dBi, 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.

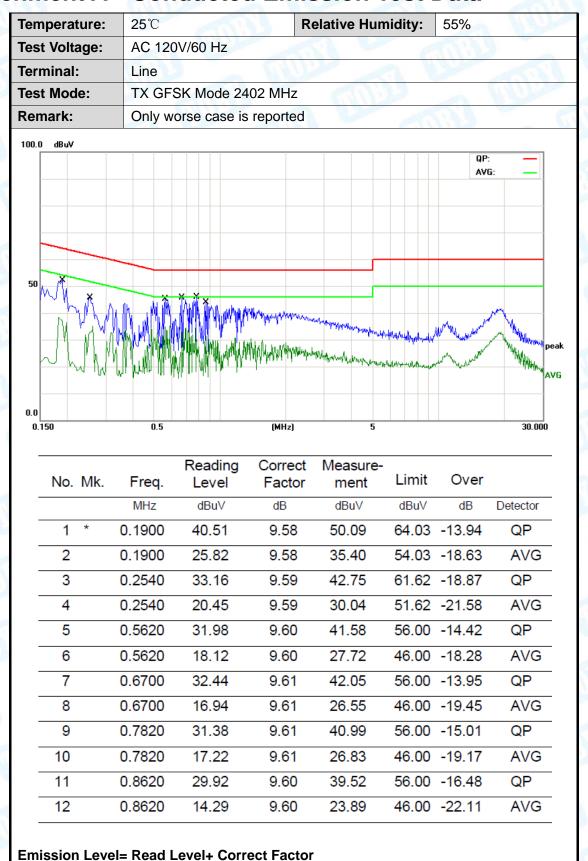
Antenna Type				
☐Permanent attached antenna				
⊠Unique connector antenna	Will Street			
Professional installation antenna	The state of the s			

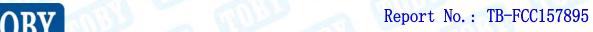


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Attachment A-- Conducted Emission Test Data





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Temperatur	e: 25℃		a Wy	Relative Hu	midity:	55%	
Test Voltage	e: AC 1	20V/60 Hz	13		1		Am
Terminal:	Neutr	al	400		CUI	1:33	
Test Mode:	TX G	FSK Mode 2	2402 MHz		1 63		
Remark:	Only	worse case	is reported	WHO I	2	a W	
100.0 dBuV							
						QP: AVG:	
-							
×							
50 × ×	, ,	X ₁ X U					
M	Wh. Mundhid	Mar PMM / Maritar	A MANAGAMAN AND AND AND AND AND AND AND AND AND A		. Janahara	May work the same	Walle .
	NA VICTOR NA NA	na Parlamenta Lin	Maradio da	PHALADOPHANIA POPOR CONTRACTOR	MANTALAN MANT .		hilling pea
7 1		And dated the state of the	J. HUGUNANIA YUN MAYANA YA	Hologoph Stanific manner	entermore and better	N. Skalingth Mark	AVI
0.0	0.5		(MHz)	5			30.000
		Danding		Manageman			
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detecto
1	0.1780	37.29	9.65	46.94	64.57	-17.63	QP
2	0.1780	15.74	9.65	25.39	54.57	-29.18	AVC
3 *	0.1860	40.94	9.65	50.59	64.21	-13.62	QP
4	0.1860	24.78	9.65	34.43		-19.78	AVO
<u>.</u> 5	0.2460	32.62	9.61	42.23		-19.66	QP
	0.2460	16.64				-25.64	AVO
6			9.61	26.25			
7	0.6780	30.63	9.59	40.22		-15.78	QP
8	0.6780	16.25	9.59	25.84		-20.16	AVC
9	0.7660	29.17	9.59	38.76	56.00	-17.24	QP
	0.7660	14.59	9.59	24.18	46.00	-21.82	AVC
10		27.22	9.59	36.91	56.00	-19.09	QP
10 11	1.1100	27.32	0.00				



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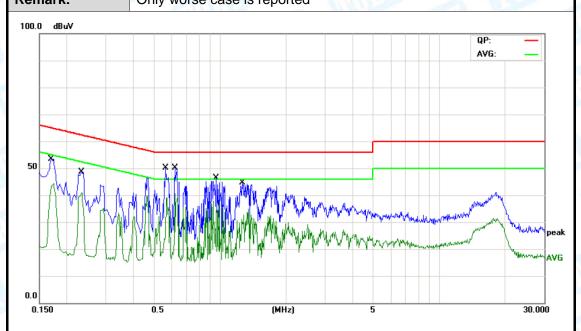


emperature:	25℃		a W	Relative H	umidity:	55%	-		
est Voltage:	AC 240)V/60 Hz	33		No.		MAG		
erminal:	Line	A Bree	-551	80 6	C		9		
est Mode:	TX GFS	TX GFSK Mode 2402 MHz							
lemark:	Only we	orse case is	reported	THE STATE OF		-	HILL		
00.0 dBuV									
50	*			Morron Myvvo	and we have been departed as the second	QI AT	VG: —		
0.0	0.5		(MHz)	5			30.000		
		Reading	Correct	Measure					
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
No. Mk.	Freq.					Over	Detector		
No. Mk.		Level	Factor	ment	Limit dBuV		Detector QP		
	MHz	Level dBuV	Factor dB	ment dBuV	dBuV 64.76	dB			
1	MHz 0.1740	dBuV 44.18	dB 9.58	ment dBuV 53.76	Limit dBuV 64.76 54.76	dB -11.00	QP		
1 2	MHz 0.1740 0.1740	dBuV 44.18 34.33	9.58 9.58	ment dBuV 53.76 43.91	dBuV 64.76 54.76 62.45	dB -11.00 -10.85	QP AVG		
1 2 3	MHz 0.1740 0.1740 0.2300	dBuV 44.18 34.33 37.64	9.58 9.58 9.58	ment dBuV 53.76 43.91 47.22	dBuV 64.76 54.76 62.45	dB -11.00 -10.85 -15.23	QP AVG QP		
1 2 3 4	MHz 0.1740 0.1740 0.2300 0.2300	Level dBuV 44.18 34.33 37.64 30.80	9.58 9.58 9.58 9.58	ment dBuV 53.76 43.91 47.22 40.38	Limit dBuV 64.76 54.76 62.45 52.45 56.00	dB -11.00 -10.85 -15.23 -12.07	QP AVG QP AVG		
1 2 3 4 5	MHz 0.1740 0.1740 0.2300 0.2300 0.5660	Level dBuV 44.18 34.33 37.64 30.80 37.69	9.58 9.58 9.58 9.58 9.60	ment dBuV 53.76 43.91 47.22 40.38 47.29	Limit dBuV 64.76 54.76 62.45 52.45 56.00	dB -11.00 -10.85 -15.23 -12.07 -8.71	QP AVG QP AVG QP		
1 2 3 4 5	MHz 0.1740 0.1740 0.2300 0.2300 0.5660 0.5660	Level dBuV 44.18 34.33 37.64 30.80 37.69 24.46	9.58 9.58 9.58 9.58 9.60	ment dBuV 53.76 43.91 47.22 40.38 47.29 34.06	Limit dBuV 64.76 54.76 62.45 52.45 56.00 46.00	dB -11.00 -10.85 -15.23 -12.07 -8.71 -11.94	QP AVG QP AVG QP AVG		
1 2 3 4 5 6 7	MHz 0.1740 0.1740 0.2300 0.2300 0.5660 0.5660 0.6300	Level dBuV 44.18 34.33 37.64 30.80 37.69 24.46 38.62	9.58 9.58 9.58 9.58 9.60 9.60	ment dBuV 53.76 43.91 47.22 40.38 47.29 34.06 48.23	Limit dBuV 64.76 54.76 62.45 52.45 56.00 46.00 46.00	dB -11.00 -10.85 -15.23 -12.07 -8.71 -11.94 -7.77	QP AVG QP AVG QP AVG QP		
1 2 3 4 5 6 7 8 *	MHz 0.1740 0.1740 0.2300 0.2300 0.5660 0.5660 0.6300 0.6300	Level dBuV 44.18 34.33 37.64 30.80 37.69 24.46 38.62 28.81	9.58 9.58 9.58 9.58 9.60 9.60 9.61 9.61	ment dBuV 53.76 43.91 47.22 40.38 47.29 34.06 48.23 38.42	Limit dBuV 64.76 54.76 62.45 52.45 56.00 46.00 56.00 56.00	dB -11.00 -10.85 -15.23 -12.07 -8.71 -11.94 -7.77 -7.58	QP AVG QP AVG QP AVG QP AVG		
1 2 3 4 5 6 7 8 *	MHz 0.1740 0.1740 0.2300 0.2300 0.5660 0.5660 0.6300 0.6300 0.9660	Level dBuV 44.18 34.33 37.64 30.80 37.69 24.46 38.62 28.81 34.00	9.58 9.58 9.58 9.60 9.60 9.61 9.60	ment dBuV 53.76 43.91 47.22 40.38 47.29 34.06 48.23 38.42 43.60	Limit dBuV 64.76 54.76 62.45 52.45 56.00 46.00 56.00 46.00 46.00	dB -11.00 -10.85 -15.23 -12.07 -8.71 -11.94 -7.77 -7.58 -12.40	QP AVG QP AVG QP AVG QP AVG QP		



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Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		THE PERSON NAMED IN
Terminal:	Neutral	50	11:39
Test Mode:	TX GFSK Mode 2402 MHz		
Remark:	Only worse case is reporte	d	- WILLIAM



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1	0.1700	41.99	9.58	51.57	64.96	-13.39	QP
2	0.1700	31.70	9.58	41.28	54.96	-13.68	AVG
3	0.2340	36.29	9.58	45.87	62.30	-16.43	QP
4	0.2340	28.23	9.58	37.81	52.30	-14.49	AVG
5	0.5660	37.04	9.60	46.64	56.00	-9.36	QP
6	0.5660	23.22	9.60	32.82	46.00	-13.18	AVG
7 *	0.6220	37.29	9.61	46.90	56.00	-9.10	QP
8	0.6220	22.34	9.61	31.95	46.00	-14.05	AVG
9	0.9620	32.77	9.60	42.37	56.00	-13.63	QP
10	0.9620	17.56	9.60	27.16	46.00	-18.84	AVG
11	1.2660	31.22	9.60	40.82	56.00	-15.18	QP
12	1.2660	18.82	9.60	28.42	46.00	-17.58	AVG



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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

Temperature:	25℃		CHILD	Relative Hum	nidity:	55%	
Test Voltage:	AC 12	0/60Hz				Chir.	
Ant. Pol.	Horizo	ntal		Contract of	WAY!		571
Test Mode:	BLE T	X 2402 Mod	le	-3 W	ALL DE		163
Remark:	Only w	orse case i	s reported	MIN.		MAIN	
80.0 dBuV/m							
					(RF)FCC 15C	3M Radiation Margin -6 dB	
						Margin -0 ub	-
					4	5 X	· ·
30		1 X	2 X A	3	*		
	, _J .//w	down home	, make the	JAY UKAHAYAM	Mary Hillsham	hat the property of the second	+
Markey Marcher	And Therese And Andreas		, M				
-20							
30.000 40	50 60 70	80	(MHz)	300	400 500	600 700	1000.000
		Reading	Correct	Measure-			
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1 99	9.8777	47.59	-21.25	26.34	43.50	-17.16	QP
2 15	5.9101	45.58	-20.10	25.48	43.50	-18.02	QP
3 23	6.6447	45.40	-17.74	27.66	46.00	-18.34	QP
4 37	5.9385	43.51	-13.37	30.14	46.00	-15.86	QP
	4.5968	40.07	-5.01	35.06	46.00	-10.94	QP
	2.1623	41.46					
6 96	2.1023	41.40	-3.35	38.11	54.00	-15.89	QP
*.M			_				
*:Maximum data	x:Over limit	!:over margin					
Emission I av	el= Read l	Level+ Cor	rect Facto	r			



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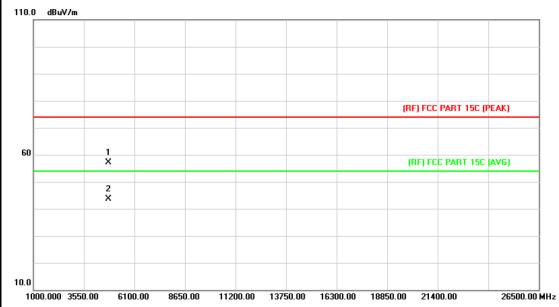
age:	Vertice BLE	20/60H cal TX 240 worse)2 Mo	de	D E	O G	nii3	
le:	BLE	TX 240		de	77		11/23	
				de				
'm	Only	worse	case			C C		MIL
/m		Remark: Only worse case is re						Market
						(RF)FC	C 15C 3M Radiation	
							Margin -t	<u>_</u> _
								5 ¥
			1	2 *	2		:	Hill
Market Co.			Λ_{-}		. N. 1 M	T. S. Malhard	legatification Companie	ILIYANYA W
٧	y work	What what	/ M	Paraguagna palacon	y was roman n	I state with the		
40 50	60 7	0 80		(MHz)	3	00 400	500 600 700	1000.00
		Pos	dina	Corroct	Magaura			
lk. F	req.		_	Factor	ment	Limit	Over	
N	ИНz	dE	Bu∨	dB/m	dBuV/m	dBuV/r	n dB	Detecto
99.	5281	46	.58	-21.28	25.30	43.50	-18.20	QP
155	.9101	46	.38	-20.10	26.28	43.50	-17.22	QP
237	.4760	40	.05	-17.71	22.34	46.00	-23.66	QP
468	.8762	40	.92	-10.90	30.02	46.00	-15.98	QP
860	.0352	43	.25	-5.09	38.16	46.00	7.84	QP
962	.1623	43	.39	-3.35	40.04	54.00	-13.96	QP
	99. 155 237 468 860 962	MHz 99.5281 155.9101 237.4760 468.8762 860.0352 962.1623	Rea MHz dE 99.5281 46 155.9101 46 237.4760 40 468.8762 40 860.0352 43 962.1623 43	Reading Level MHz dBuV 99.5281 46.58 155.9101 46.38 237.4760 40.05 468.8762 40.92 860.0352 43.25 962.1623 43.39	Reading Level Factor MHz dBuV dB/m 99.5281 46.58 -21.28 155.9101 46.38 -20.10 237.4760 40.05 -17.71 468.8762 40.92 -10.90 860.0352 43.25 -5.09 962.1623 43.39 -3.35	Reading Correct Measure Factor ment MHz dBuV dB/m dBuV/m 99.5281 46.58 -21.28 25.30 155.9101 46.38 -20.10 26.28 237.4760 40.05 -17.71 22.34 468.8762 40.92 -10.90 30.02 860.0352 43.25 -5.09 38.16 962.1623 43.39 -3.35 40.04	Reading Correct Measure- MHz dBuV dB/m dBuV/m dBuV/r 99.5281 46.58 -21.28 25.30 43.50 155.9101 46.38 -20.10 26.28 43.50 237.4760 40.05 -17.71 22.34 46.00 468.8762 40.92 -10.90 30.02 46.00 860.0352 43.25 -5.09 38.16 46.00 962.1623 43.39 -3.35 40.04 54.00	Reading Level Factor Measure- Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB 99.5281 46.58 -21.28 25.30 43.50 -18.20 155.9101 46.38 -20.10 26.28 43.50 -17.22 237.4760 40.05 -17.71 22.34 46.00 -23.66 468.8762 40.92 -10.90 30.02 46.00 -15.98 860.0352 43.25 -5.09 38.16 46.00 -7.84 962.1623 43.39 -3.35 40.04 54.00 -13.96



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Above 1GHz

Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	AC 120/60Hz	0	OF I				
Ant. Pol. Horizontal							
Test Mode:	st Mode: BLE Mode TX 2402 MHz						
Remark: No report for the emission which more than 10 dB below the prescribed limit.							



No	o. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.874	42.61	14.56	57.17	74.00	-16.83	peak
2	*	4805.311	29.02	14.57	43.59	54.00	-10.41	AVG



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1	Temperature:	25℃	Relative Humidity:	55%					
	Test Voltage:	AC 120/60Hz	Million						
	Ant. Pol.	Vertical							
	Test Mode:	BLE Mode TX 2402 MHz	BLE Mode TX 2402 MHz						
Remark: No report for the emission which more than 10 dB below the prescribed limit.									

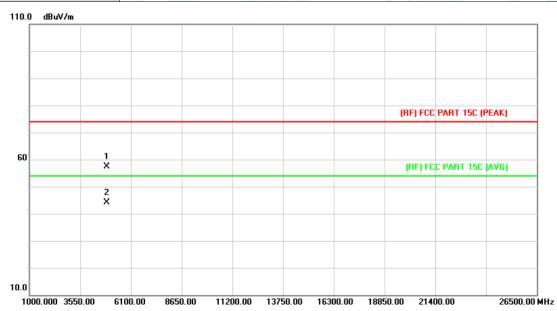


N	lo. M	lk. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4804.13	5 28.78	14.56	43.34	54.00	-10.66	AVG
2		4804.52	2 42.37	14.56	56.93	74.00	-17.07	peak



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Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz	Militia				
Ant. Pol.	Horizontal		133			
Test Mode:	BLE Mode TX 2442 MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

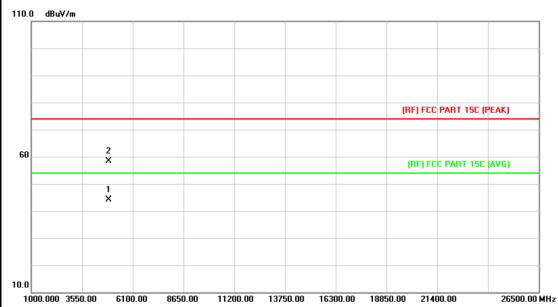


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4884.294	42.17	15.18	57.35	74.00	-16.65	peak
2	*	4884.546	28.87	15.18	44.05	54.00	-9.95	AVG



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Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	AC 120/60Hz	MULT					
Ant. Pol.	Vertical						
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.						

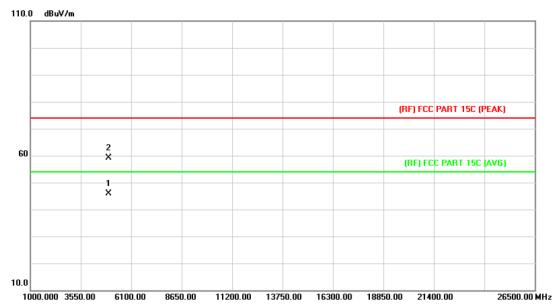


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4884.177	28.87	15.17	44.04	54.00	-9.96	AVG
2		4885.008	43.26	15.19	58.45	74.00	-15.55	peak



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Į,	Temperature:	25℃	Relative Humidity:	55%					
	Test Voltage:	AC 120/60Hz	AC 120/60Hz						
	Ant. Pol.	Horizontal							
	Test Mode:	BLE Mode TX 2480 MHz	BLE Mode TX 2480 MHz						
	Remark: No report for the emission which more than 10 dB below the prescribed limit.								

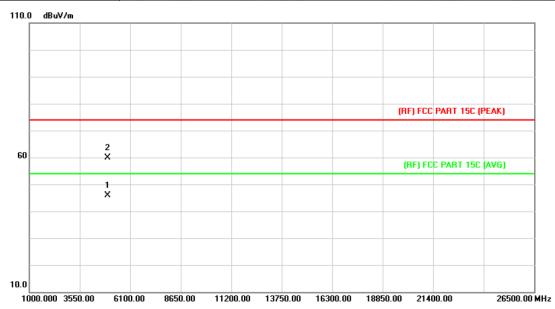


	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4960.030	30.16	15.76	45.92	54.00	-8.08	AVG
2			4962.370	43.40	15.78	59.18	74.00	-14.82	peak



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Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	AC 120/60Hz	Military	- The same			
Ant. Pol.	Vertical		133			
Test Mode:	BLE Mode TX 2480 MHz					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					



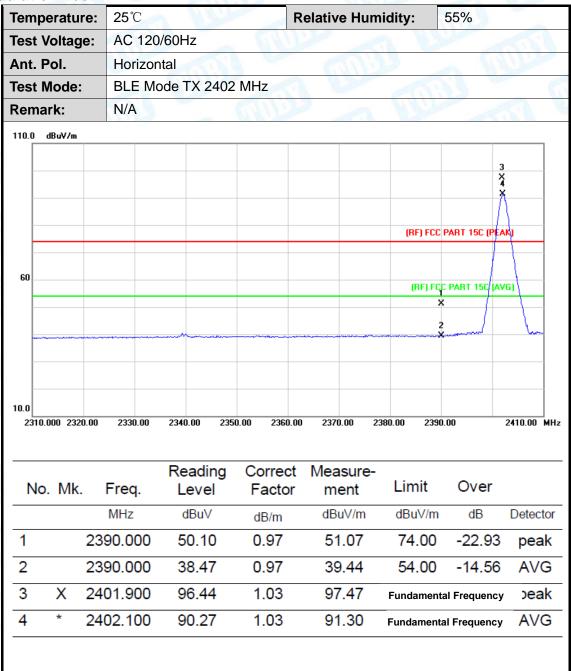
N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.150	30.12	15.76	45.88	54.00	-8.12	AVG
2		4960.820	44.18	15.76	59.94	74.00	-14.06	peak



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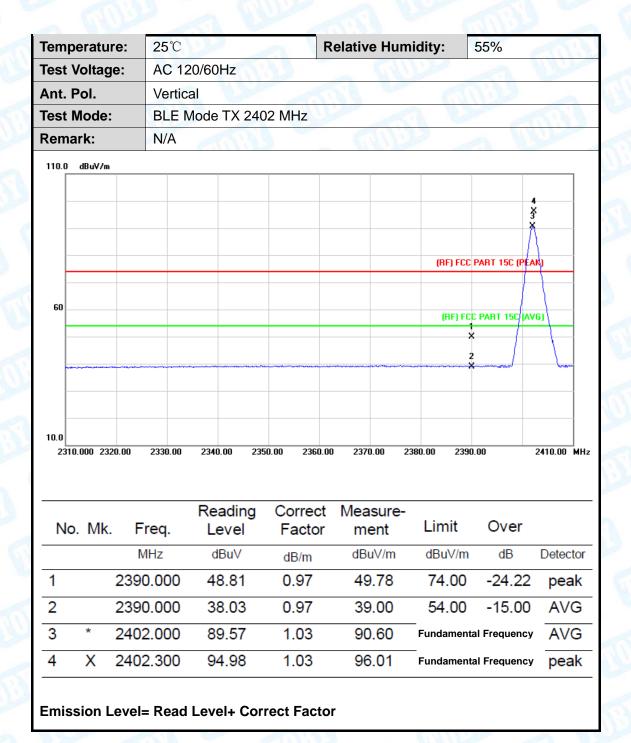
Attachment C-- Restricted Bands Requirement Test Data

(1) Radiation Test





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3

4

Report No.: TB-FCC157895

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Temperature:	25 ℃		Relative Humic	dity: 55%				
Test Voltage:	AC 120/60Hz	AC 120/60Hz						
Ant. Pol.	Horizontal	Horizontal						
Test Mode:	BLE Mode TX 24	180 MHz		Con M				
Remark:	N/A		W. Des		All bear			
110.0 dBuV/m								
1 2 2				RF) FCC PART 15C (PEA	r)			
				II) I CC I AIII 13C (I LA				
e0 X				(RF) FCC PART 15C (AVG)				
*				40,200				
10.0								
2471.000 2481.00	2491.00 2501.00 251	1.00 2521.00	2531.00 2541.00	2551.00	2571.00 MHz			
No. Mk. F	Reading req. Level	Correct Factor	Measure- ment Lii	mit Over				
N	MHz dBuV	dB/m	dBuV/m dB	suV/m dB	Detector			
1 X 2480	0.000 93.89	1.38	95.27 Fund	amental Frequency	peak			
2 * 2480	0.000 88.17	1.38	89.55 Fund	amental Frequency	AVG			

Emission Level= Read Level+ Correct Factor

56.49

49.83

1.40

1.40

57.89

51.23

74.00

54.00

-16.11

-2.77

peak

AVG

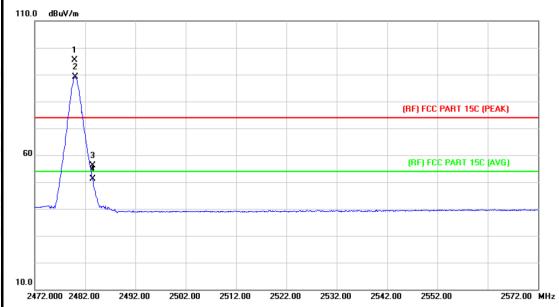
2483.500

2483.500



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Temperature:	25℃	Relative Humidity:	55%	
Test Voltage:	AC 120/60Hz		- 1 L	
Ant. Pol.	Vertical			
Test Mode: BLE Mode TX 2480 MHz				
Remark:	N/A			
110.0 dBuV/m				
1				



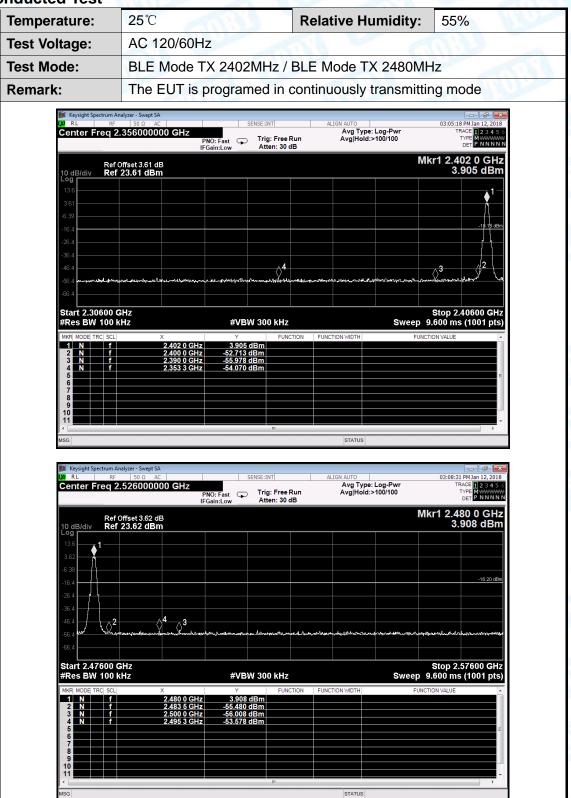
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2479.900	93.97	1.38	95.35	Fundamental	Frequency	peak
2	*	2480.100	87.79	1.38	89.17	Fundamental	Frequency	AVG
3		2483.500	54.62	1.40	56.02	74.00	-17.98	peak
4		2483.500	49.76	1.40	51.16	54.00	-2.84	AVG

Emission Level= Read Level+ Correct Factor



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(2) Conducted Test





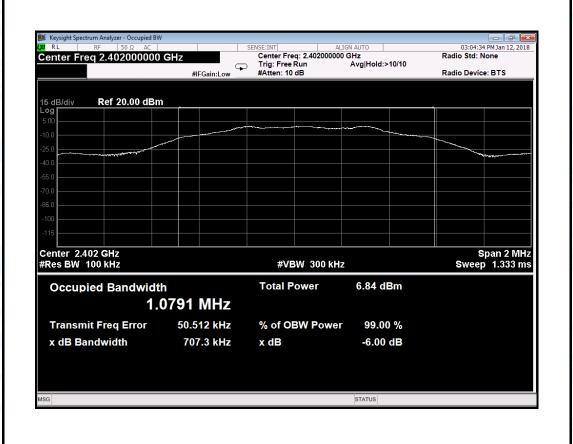
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Attachment D-- Bandwidth Test Data

Temperature:	25℃		Relative Humidity:	55%	
Test Voltage:	AC 1	20/60Hz		7.33	
Test Mode:	BLE	TX Mode			
Channel frequency		6dB Bandwidth 99% Bandwidth		Limit	
(MHz)		(kHz)	(kHz) (kHz)		
2402		2402 707.30			
2442		2442 712.80		>=500	
2480		689.00	1079.6		
		1	,	*	

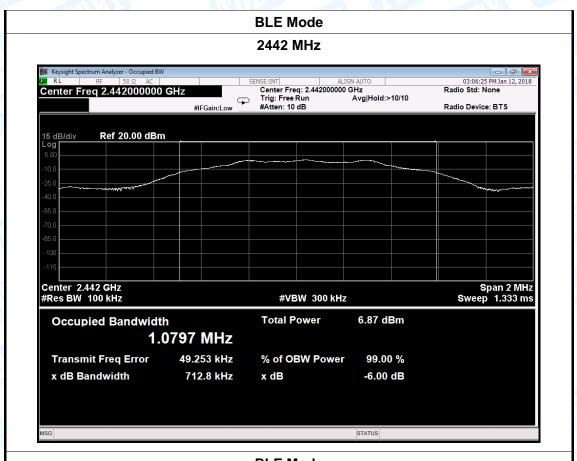
BLE Mode

2402 MHz



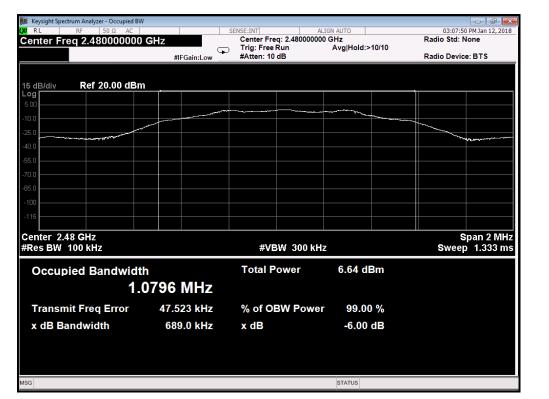


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BLE Mode

2480 MHz





Center 2.402000 GHz #Res BW 1.0 MHz Report No.: TB-FCC157895

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Span 10.00 MHz Sweep 1.333 ms (10001 pts)

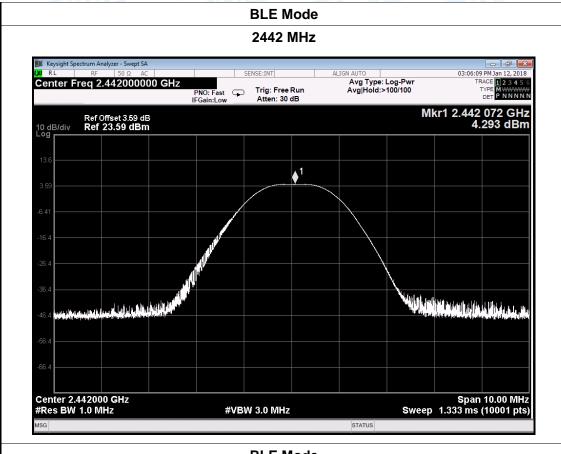
Attachment E-- Peak Output Power Test Data

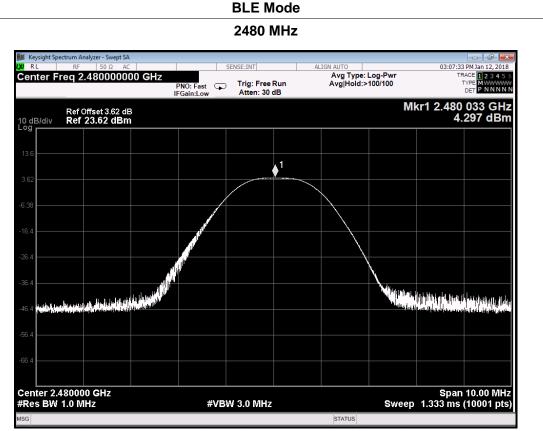
emperature:	25℃		Relative Humidi	ty: 55%
est Voltage:	AC 120/60)Hz		
est Mode:	BLE TX M	lode	U.S.	Charles and the same of the sa
Channel freque	ncy (MHz)	Test Re	sult (dBm)	Limit (dBm)
2402		4	.324	
2442		4	.293	30
2480		4	.297	
		BLE	Mode	
		240	2 MHz	
Ref Offs		IFGain:Low Atter	n: 30 dB	Mkr1 2.401 783 GF
10 dB/div Ref 23	set 3.61 dB 3.61 dBm			4.324 dB
13.6				
3.61			♦ ¹	
			•1	
-6.39			•1	
-6.39 -16.4		Audor	•1	
-6.39 -16.4 -26.4		Market -	•1	
-6.39 -16.4 -26.4	and the second seco		•1	
-6.39 -16.4 -26.4	aring a ship of the ship of th		•1	
-6.39 -16.4 -26.4			•1	
3.61 -6.39 -16.4 -26.4 -36.4 -46.4	a na a shi ka			

#VBW 3.0 MHz



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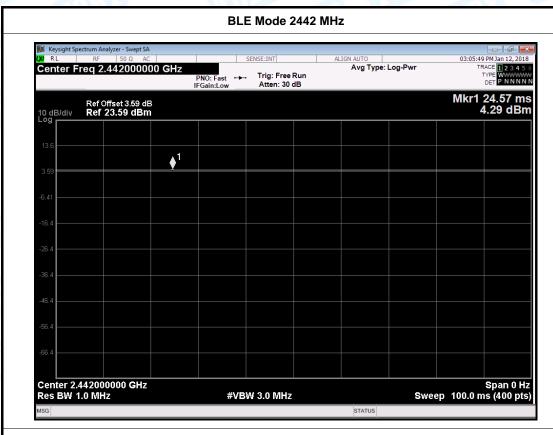


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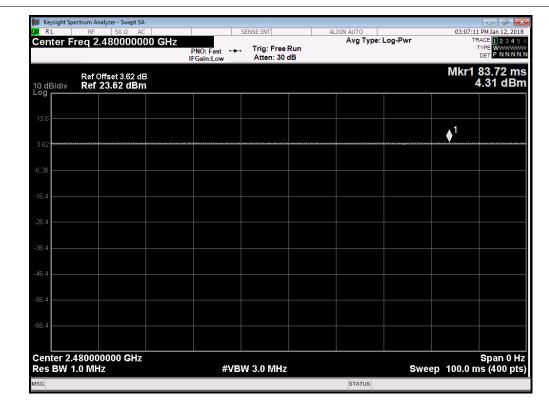
			Duty Cy	cle				
Mode	Channel	frequency	(MHz)		To	est Resul	t	
		2402						
BLE		2442 2480			>98%			
ase see below	plots							
		BL	E Mode 24	02 MHz				
Keysight Spectrum Ana								
Center Freq 2.4	50 Ω AC 402000000 GH	Z PNO: Fast ↔ IFGain:Low	Trig: Free Ru Atten: 30 dB		AUTO Avg Type: Log-Pv		04:08 PM Jan 12, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P NNNN	
Ref Of 10 dB/div Ref 2 Log	ffset 3.61 dB 2 3.61 dBm					Mk	r1 58.66 ms 4.28 dBm	
13.6				♦ 1				
3.61								
-6.39								
-16.4								
-26.4								
-36.4								
-46.4								
-56.4								
-66.4								
Center 2.402000	0000 GHz						Span 0 Hz	
Res BW 1.0 MHz	Z	#VE	W 3.0 MHz		STATUS	Sweep 100.	0 ms (400 pts)	



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Temperature:

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Attachment F-- Power Spectral Density Test Data

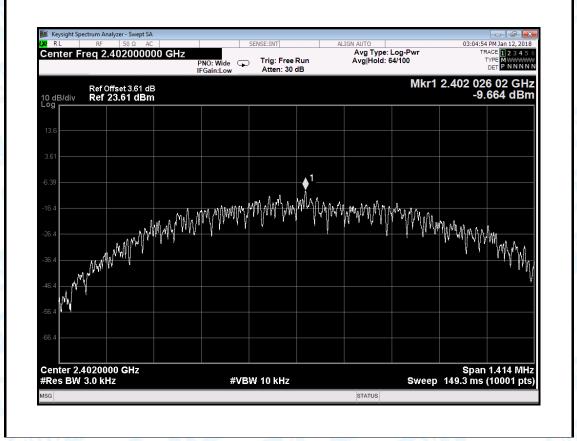
25℃

				=	
	Test Voltage:	AC 120/6	0Hz		
	Test Mode:	BLE TX N	Mode	3 13	
	Channel Frequency (MHz)		Power Density	Limit	Result
			(dBm)	(dBm)	Result
	2402		-9.664		
	2442		-9.562	8	PASS
	2480		-9.684		
				L .	•

Relative Humidity:

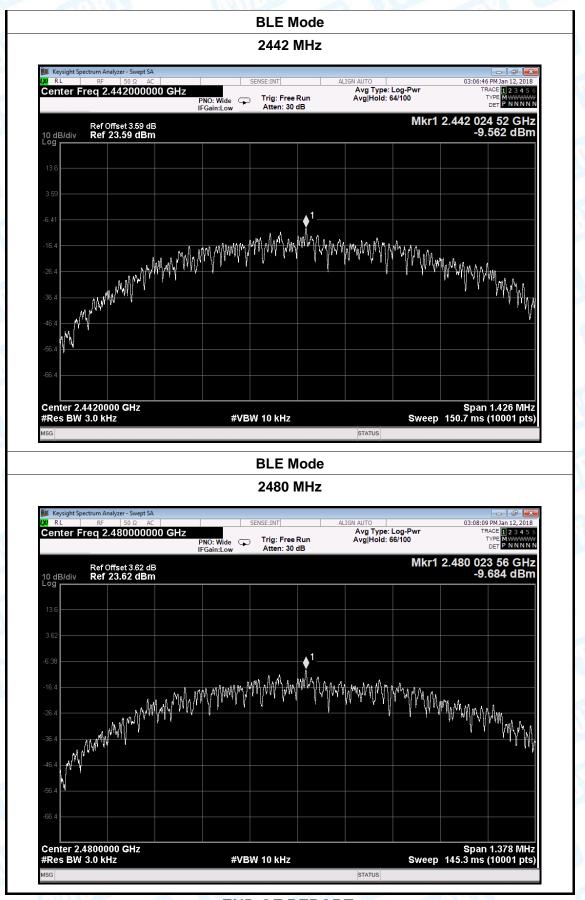
BLE Mode

2402 MHz





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