

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC161444 Page: 1 of 46

FCC Radio Test Report FCC ID: XMF-MID1016-MK

Original Grant

Report No.	:	TB-FCC161444			
Applicant	1	Lightcomm Technology Co., Ltd.			
Equipment Under	Equipment Under Test (EUT)				
EUT Name	:	Tablet PC			
Model No.		MID1016-MK			
Serial Model No.	1	DL1016, MID1016-MA, MID1016-L, DL1016-MK, DL1016MK, DL10XXXXXX (X can be 0~9, A~Z)			
Brand Name	:				
Receipt Date		2018-08-02			
Test Date	:	2018-08-03 to 2018-08-14			
Issue Date		2018-08-15			
Standards	-	FCC Part 15: 2017, Subpart C(15.247)			
Test Method	1	ANSI C63.10: 2013			
Conclusions	2	PASS			
In the configuration tested, the EUT complied with the standards specified above,					
Test/Witness Engineer		: Jason Xu TECHNOL Jason Xu			
Engineer Supervisor		: Jason Xu : IVAN SU : fughi. : fughi. : Baytan			
Engineer Manager	1	: fugti. 13HS Raytan			

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-FCC161444	Rev.01	Initial issue of report	2018-08-15
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1. General Information about EUT

1.1 Client Information

Applicant		Lightcomm Technology Co., Ltd.	
Address	: RM 1808 18/F FO TAN INDUSTRIAL CENTRE NOS. 26-28, WAN STREET FO TAN SHATIN NEW TERRITORIES, HONGI		
Manufacturer	nufacturer : Huizhou Heng Du Electronics Co., Ltd.		
Address	-	No.8 Huitai Road, Huinan High-tech Industrial Park, Huiao Avenu Huizhou, China	

1.2 General Description of EUT (Equipment Under Test)

		T 11 (DO		
EUT Name	:	Tablet PC		
Models No.	:	MID1016-MK, DL1016, MID1016-MA, MID1016-L, DL1016-MK, DL1016MK, DL10XXXXXX (X can be 0~9, A~Z)		
Model Difference		All models are in the same PCB layout interior structure and electrical circuits, The only difference is model name.		
	3	Operation Frequency:	Bluetooth 4.1(BLE): 2402MHz~2480MHz	
		Number of Channel:	Bluetooth 4.1(BLE): 40 channels see note(3)	
Product		RF Output Power:	-0.392dBm Conducted Power	
Description	1	Antenna Gain:	1.81 dBi FPC Antenna	
		Modulation Type:	GFSK	
		Bit Rate of Transmitter:	1Mbps(GFSK)	
Power Supply DC Voltage Supply from Adapter(TEKA012-0502000UK) DC Voltage supplied by Li-ion battery.				
Power Rating	:	TEKA012-0502000UK: Input: AC 100-240V 50/60Hz 0.35A(MAX) Output: DC 5.0V 2A by adapter DC 3.7V by 5000mAh Li-ion battery		
Software Version	÷	N/A		
Hardware Version	?	N/A Please refer to the User's Manual		
Connecting I/O Port(S)				

Note:

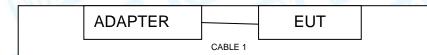
This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v04.



- (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.
- (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





1.4 Description of Support Units

	Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used "√"	
			TEKA		
ADAPTER	TEKA012-0502000UK		TECHNOLOGY		
			CO., LTD	2	
	Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note	
Cable 1	NO	NO	0.8M		

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	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.



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		N/A	
Frequency	2402 MHz	2442MHz	2480 MHz
BLE GFSK	5	5	5

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 Emission	9kHz to 30 MHz	±4.00 0B
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Padiated Emission	Level Accuracy:	14.20 dP
Radiated Emission	Above 1000MHz	±4.20 dB



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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.

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 Section		To of Items	ludamont	Bomeria
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



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 Emissio	on 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. 14, 2018	Jul. 13, 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 Conducte	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	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	17100015SNO26	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO29	Oct. 26, 2017	Oct. 25, 2018
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO31	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO33	Oct. 26, 2017	Oct. 25, 2018



4. Conducted Emission Test

- 4.1 Test Standard and Limit
 - 4.1.1Test Standard FCC Part 15.207
 - 4.1.2 Test Limit

Erecuency	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		

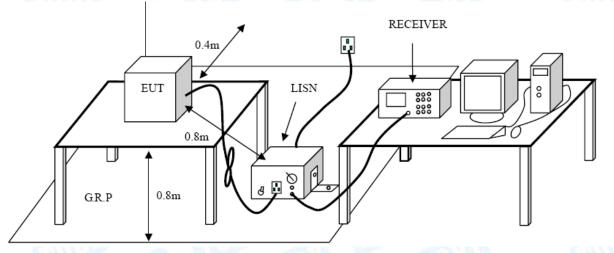
Notes:

(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.



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.



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:

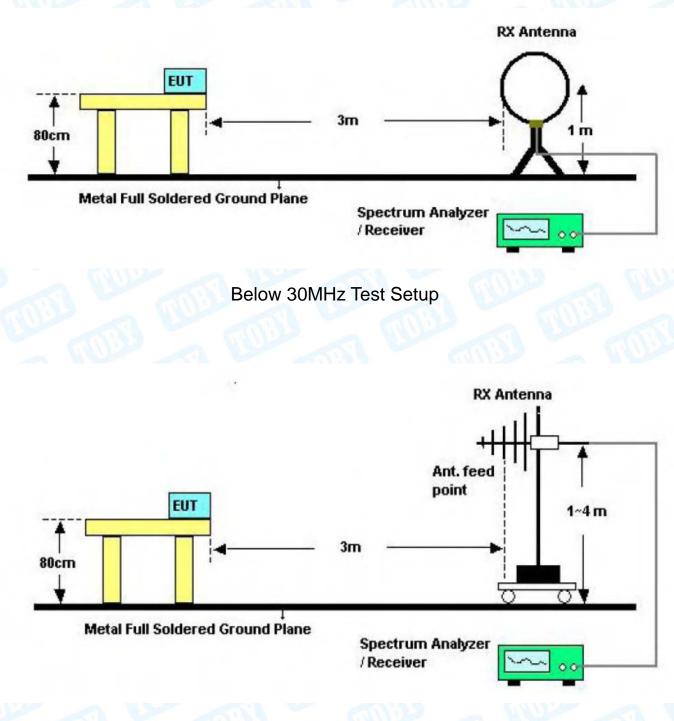
(1) The tighter limit applies at the band edges.

(2) Emission Level (dBuV/m)=20log Emission Level (uV/m)



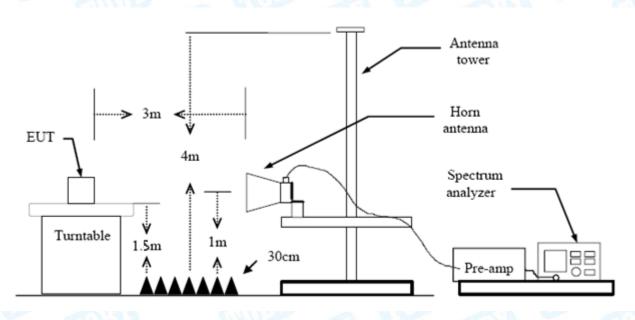
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5.2 Test Setup



Below 1000MHz Test Setup





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.

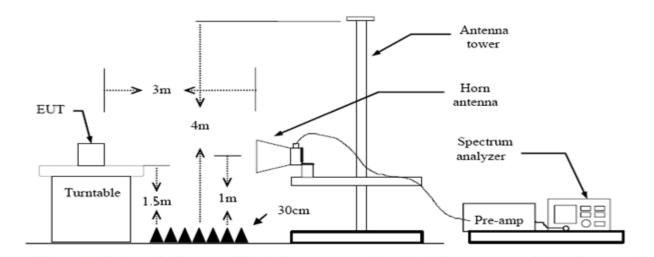


6. Restricted Bands Requirement

- 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 Me	eters(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



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.

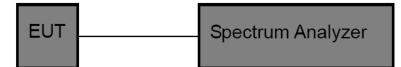


7. Bandwidth Test

- 7.1 Test Standard and Limit
 - 7.1.1 Test Standard
 - FCC Part 15.247 (a)(2)
 - 7.1.2 Test Limit

FCC	FCC Part 15 Subpart C(15.247)/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.

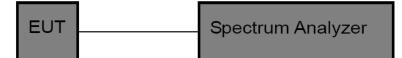


8. Peak Output Power Test

- 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.

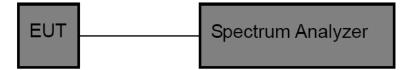


9. Power Spectral Density Test

- 9.1 Test Standard and Limit
 - 9.1.1 Test Standard
 - FCC Part 15.247 (e)
 - 9.1.2 Test Limit

FC	C 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.



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 1.81dBi, 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.

Ar	ntenna Type
	ent attached antenna
Unique	connector antenna
	onal installation antenna

Attachment A-- Conducted Emission Test Data

TOBY

Temperatu	re: 25°	°C		Relative Hu	midity:	55%	
Test Voltag		120V				0070	
Terminal:	Lin		1170				-
Test Mode:		E TX 2402 M	ode				
Remark:		ly worse case	e is reported	ł	-6	R	
90.0 dBuV	Manan	Mal Marman	Multiple of the stand of the st	May May Market	phy Mana a		
0.150		0.5	(MHz)	5			30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
No. Mk.	Freq. MHz	-			Limit dBuV	Over dB	Detector
No. Mk.	· ·	Level	Factor	ment	dBuV		Detector
	MHz	Level dBuV	Factor dB	ment dBu∨	dBuV	dB	
1	MHz 0.1539	Level dBuV 40.31	Factor dB 9.58	ment dBuV 49.89	dBuV 65.78 55.78	dB -15.89	QP
1 2	MHz 0.1539 0.1539	Level dBuV 40.31 17.56	Factor dB 9.58 9.58	ment dBuV 49.89 27.14	dBuV 65.78 55.78 64.96	dB -15.89 -28.64	QP AVG
1 2 3	MHz 0.1539 0.1539 0.1700	Level dBuV 40.31 17.56 39.34	Factor dB 9.58 9.58 9.58	ment dBuV 49.89 27.14 48.92	dBuV 65.78 55.78 64.96 54.96	dB -15.89 -28.64 -16.04	QP AVG QP
1 2 3 4	MHz 0.1539 0.1539 0.1700 0.1700	Level dBuV 40.31 17.56 39.34 23.87	Factor dB 9.58 9.58 9.58 9.58 9.58	ment dBuV 49.89 27.14 48.92 33.45	dBuV 65.78 55.78 64.96 54.96 63.52	dB -15.89 -28.64 -16.04 -21.51	QP AVG QP AVG
1 2 3 4 5	MHz 0.1539 0.1539 0.1700 0.1700 0.2020	Level dBuV 40.31 17.56 39.34 23.87 38.15	Factor dB 9.58 9.58 9.58 9.58 9.58 9.58	ment dBuV 49.89 27.14 48.92 33.45 47.73	dBuV 65.78 55.78 64.96 54.96 63.52 53.52	dB -15.89 -28.64 -16.04 -21.51 -15.79	QP AVG QP AVG QP
1 2 3 4 5 6	MHz 0.1539 0.1539 0.1700 0.1700 0.2020 0.2020	Level dBuV 40.31 17.56 39.34 23.87 38.15 20.33	Factor dB 9.58 9.58 9.58 9.58 9.58 9.58 9.58	ment dBuV 49.89 27.14 48.92 33.45 47.73 29.91	dBuV 65.78 55.78 64.96 54.96 63.52 53.52 62.17	dB -15.89 -28.64 -16.04 -21.51 -15.79 -23.61	QP AVG QP AVG QP AVG
1 2 3 4 5 6 7	MHz 0.1539 0.1539 0.1700 0.1700 0.2020 0.2020 0.2379	Level dBuV 40.31 17.56 39.34 23.87 38.15 20.33 35.81	Factor dB 9.58 9.58 9.58 9.58 9.58 9.58 9.58 9.58	ment dBuV 49.89 27.14 48.92 33.45 47.73 29.91 45.39	dBuV 65.78 55.78 64.96 54.96 63.52 53.52 62.17 52.17	dB -15.89 -28.64 -16.04 -21.51 -15.79 -23.61 -16.78	QP AVG QP AVG QP AVG QP
1 2 3 4 5 6 7 8 9	MHz 0.1539 0.1539 0.1700 0.1700 0.2020 0.2020 0.2379 0.2379 0.6018	Level dBuV 40.31 17.56 39.34 23.87 38.15 20.33 35.81 22.49 35.14	Factor dB 9.58 9.58 9.58 9.58 9.58 9.58 9.58 9.58	ment dBuV 49.89 27.14 48.92 33.45 47.73 29.91 45.39 32.07 44.74	dBuV 65.78 55.78 64.96 54.96 63.52 53.52 62.17 52.17 56.00	dB -15.89 -28.64 -16.04 -21.51 -15.79 -23.61 -16.78 -20.10	QP AVG QP AVG QP AVG QP AVG QP
1 2 3 4 5 6 7 8 9 10	MHz 0.1539 0.1539 0.1700 0.1700 0.2020 0.2020 0.2379 0.2379	Level dBuV 40.31 17.56 39.34 23.87 38.15 20.33 35.81 22.49	Factor dB 9.58 9.58 9.58 9.58 9.58 9.58 9.58 9.58	ment dBuV 49.89 27.14 48.92 33.45 47.73 29.91 45.39 32.07	dBuV 65.78 55.78 64.96 54.96 63.52 53.52 62.17 52.17 56.00 46.00	dB -15.89 -28.64 -16.04 -21.51 -15.79 -23.61 -16.78 -20.10 -11.26	QP AVG QP AVG QP AVG QP AVG



Temperature:	25 ℃		Relative	Humidity:	55%	
Fest Voltage:	AC 120V		19	1000	-	N.C.
ferminal:	Neutral	-	30 -	6	192	
lest Mode:	BLE TX 2402	Mode				
Remark:	Only worse ca	ase is reporte	d 🕥	22	2	AL DE
90.0 dBuV						
					QF	/6:
	X	h douant of	am. X.		Mar Martin	hu l
V WV	MONT WAY AND	Alexander and the second		W. W. M. W. M. M. W.	V	Why wanter
[/www.	www.www.www.	WWWWWWWWWWWW	www.	mannew	man	wathing
		e i ju vor				- mour
0.150	0.5	(MHz)	5			30.000
		(MHz) Correct	5 Measure-			30.000
0.150	0.5 Reading req. Level			Limit	Over	30.000
0.150 No. Mk. Fr	Reading	Correct	Measure-	Limit	Over dB	30.000 Detector
a.150 No. Mk. Fr M	Reading req. Level	Correct Factor	Measure- ment	dBuV		
0.150 No. Mk. Fr M 1 0.1	Reading req. Level Hz dBuV	Correct Factor dB	Measure- ment dBuV	dBuV	dB -18.24	Detector
0.150 No. Mk. Fr M 1 0.1 2 0.1	Reading Level Hz dBuV 700 37.08	Correct Factor dB 9.64	Measure- ment dBu∨ 46.72	dBuV 64.96	dB -18.24 -24.30	Detector QP
0.150 No. Mk. Fr M 1 0.1 2 0.1 3 0.2	Reading Level Hz dBuV 700 37.08 700 21.02	Correct Factor dB 9.64 9.64	Measure- ment dBu∨ 46.72 30.66	dBuV 64.96 54.96	dB -18.24 -24.30 -18.56	Detector QP AVG
0.150 No. Mk. Fr M 1 0.1 2 0.1 3 0.2 4 0.2	Reading Level Hz dBuV 700 37.08 700 21.02 058 35.16	Correct Factor dB 9.64 9.64 9.65	Measure- ment dBu∨ 46.72 30.66 44.81	dBuV 64.96 54.96 63.37	dB -18.24 -24.30 -18.56 -22.32	Detector QP AVG QP
0.150 No. Mk. Fr M 1 0.1 2 0.1 3 0.2 4 0.2 5 0.6	Reading Level Hz dBuV 700 37.08 700 21.02 058 35.16 058 21.40	Correct Factor dB 9.64 9.64 9.65 9.65	Measure- ment dBu∨ 46.72 30.66 44.81 31.05	dBu∨ 64.96 54.96 63.37 53.37	dB -18.24 -24.30 -18.56 -22.32 -11.10	Detector QP AVG QP AVG
0.150 No. Mk. Fr M 1 0.1 2 0.1 3 0.2 4 0.2 5 0.6 6 0.6	Reading LevelHzdBuV70037.0870021.0205835.1605821.4001835.31	Correct Factor dB 9.64 9.64 9.65 9.65 9.59	Measure- ment dBuV 46.72 30.66 44.81 31.05 44.90	dBu∨ 64.96 54.96 63.37 53.37 56.00	dB -18.24 -24.30 -18.56 -22.32 -11.10 -14.49	Detector QP AVG QP AVG QP
0.150 No. Mk. Fr M 1 0.1 2 0.1 3 0.2 4 0.2 5 0.6 6 0.6 7 0.6	Reading LevelHzdBuV70037.0870021.0205835.1605821.4001835.3101821.92	Correct Factor dB 9.64 9.64 9.65 9.65 9.59 9.59	Measure- ment dBuV 46.72 30.66 44.81 31.05 44.90 31.51	dBu∨ 64.96 54.96 63.37 53.37 56.00 46.00	dB -18.24 -24.30 -18.56 -22.32 -11.10 -14.49 -12.75	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. Fr M 1 0.1 2 0.1 3 0.2 4 0.2 5 0.6 6 0.6 7 0.6 8 * 0.6	Reading LevelHzdBuV70037.0870021.0205835.1605821.4001835.3101821.9274033.66	Correct Factor dB 9.64 9.64 9.65 9.65 9.59 9.59 9.59	Measure- ment dBuV 46.72 30.66 44.81 31.05 44.90 31.51 43.25	dBu∨ 64.96 54.96 63.37 53.37 56.00 46.00 56.00	dB -18.24 -24.30 -18.56 -22.32 -11.10 -14.49 -12.75 -8.52	Detector QP AVG QP AVG QP AVG QP
0.150 No. Mk. Fr M 0.1 1 0.1 2 0.1 3 0.2 4 0.2 5 0.6 6 0.6 7 0.6 8 * 0.6 9 2.9	Reading LevelHzdBuV70037.0870021.0205835.1605821.4001835.3101821.9274033.6674027.89	Correct Factor dB 9.64 9.65 9.65 9.65 9.59 9.59 9.59 9.59	Measure- ment dBuV 46.72 30.66 44.81 31.05 44.90 31.51 43.25 37.48	dBu∨ 64.96 54.96 63.37 53.37 56.00 46.00 56.00 46.00	dB -18.24 -24.30 -18.56 -22.32 -11.10 -14.49 -12.75 -8.52 -16.00	Detector QP AVG QP AVG QP AVG QP AVG
0.150 No. Mk. Fr M 0.1 1 0.1 2 0.1 3 0.2 4 0.2 5 0.6 6 0.6 7 0.6 8 * 0.6 9 2.9	Reading LevelHzdBuV70037.0870021.0205835.1605821.4001835.3101821.9274033.6674027.8906030.3406018.23	Correct Factor dB 9.64 9.65 9.65 9.59 9.59 9.59 9.59 9.59 9.59	Measure- ment dBuV 46.72 30.66 44.81 31.05 44.90 31.51 43.25 37.48 40.00	dBu∨ 64.96 54.96 63.37 53.37 56.00 46.00 56.00 46.00	dB -18.24 -24.30 -18.56 -22.32 -11.10 -14.49 -12.75 -8.52 -8.52 -16.00 -18.11	Detector QP AVG QP AVG QP AVG QP AVG QP



emperature:	25 ℃			Relative Hu	midity:	55%	-
fest Voltage:	AC 24	40V		In a	196	-	
Ferminal:	Line	1 12	-	30	G	100	
Test Mode:		TX 2402 Mo			3	2	AND I
Remark:	Only	worse case	e is reported	MUP		2	RAN
90.0 dBuV						QP	-
						AV	G: <u> </u>
X							
40 MMMM	UNI NON	XXX				white	M
V 1 1	NAMAN		WILL MANY Y	nnanam	MMMAL	uputur.	
1 m Man	when marchill	AL JAKA AMANA	atilities with the	Mann		munund	Mary Mary
y	an model a fi A f	of M. Williams	White International Adv. 201	1 mar way way was	MUNIN WW	NWV.	Manne
10							
0.150							20.00
	0.5		(MHz)	5			30.00
		Reading	Correct	Measure-	Limit	Over	30.00
	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	dBuV	dB	Detector
No. Mk.	Freq. MHz .1624	Reading Level	Correct Factor	Measure- ment			
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	dBuV	dB	Detector
No. Mk. 1 0 2 0	Freq. MHz .1624	Reading Level dBuV 30.54	Correct Factor dB 9.58	Measure- ment dBuV 40.12	dBu∨ 65.34 55.34	dB -25.22	Detector QP
No. Mk. 1 0. 2 0 3 0	Freq. MHz .1624 .1624	Reading Level dBuV 30.54 14.44	Correct Factor dB 9.58 9.58	Measure- ment dBuV 40.12 24.02	dBuV 65.34 55.34 56.00	dB -25.22 -31.32	Detector QP AVG
No. Mk. 1 0 2 0 3 0 4 0	Freq. MHz .1624 .1624 .1624 .6140	Reading Level dBuV 30.54 14.44 23.52	Correct Factor dB 9.58 9.58 9.61	Measure- ment dBuV 40.12 24.02 33.13	dBu∨ 65.34 55.34 56.00 46.00	dB -25.22 -31.32 -22.87	Detector QP AVG QP
No. Mk. 1 0 2 0 3 0 4 0 5 0	Freq. MHz .1624 .1624 .6140 .6140	Reading Level dBuV 30.54 14.44 23.52 13.41	Correct Factor dB 9.58 9.58 9.61 9.61	Measure- ment dBuV 40.12 24.02 33.13 23.02	dBu∨ 65.34 55.34 56.00 46.00 56.00	dB -25.22 -31.32 -22.87 -22.98	Detector QP AVG QP AVG
No. Mk. 1 0 2 0 3 0 4 0 5 0 6 * 0	Freq. MHz .1624 .1624 .6140 .6140 .6780	Reading Level dBuV 30.54 14.44 23.52 13.41 25.49	Correct Factor dB 9.58 9.58 9.61 9.61 9.61	Measure- ment dBuV 40.12 24.02 33.13 23.02 35.10	dBu∨ 65.34 55.34 56.00 46.00 56.00 46.00	dB -25.22 -31.32 -22.87 -22.98 -20.90	Detector QP AVG QP AVG QP
No. Mk. 1 0 2 0 3 0 4 0 5 0 6 * 0 7 1	Freq. MHz .1624 .1624 .6140 .6140 .6780 .6780	Reading Level dBuV 30.54 14.44 23.52 13.41 25.49 17.49	Correct Factor dB 9.58 9.58 9.61 9.61 9.61 9.61	Measure- ment dBuV 40.12 24.02 33.13 23.02 35.10 27.10	dBu∨ 65.34 55.34 56.00 46.00 56.00 46.00 56.00	dB -25.22 -31.32 -22.87 -22.98 -20.90 -18.90	Detector QP AVG QP AVG QP AVG QP
No. Mk. 1 0 2 0 3 0 4 0 5 0 6 * 0 7 1 8 1	Freq. MHz .1624 .1624 .6140 .6140 .6780 .6780 .0500	Reading Level dBuV 30.54 14.44 23.52 13.41 25.49 17.49 21.42	Correct Factor dB 9.58 9.58 9.61 9.61 9.61 9.61 9.60	Measure- ment dBuV 40.12 24.02 33.13 23.02 35.10 27.10 31.02	dBu∨ 65.34 55.34 56.00 46.00 56.00 46.00 56.00	dB -25.22 -31.32 -22.87 -22.98 -20.90 -18.90 -24.98	Detector QP AVG QP AVG QP AVG
No. Mk. 1 0 2 0 3 0 4 0 5 0 6 * 0 7 1 8 1 9 1	Freq. MHz .1624 .1624 .6140 .6140 .6780 .6780 .0500	Reading Level dBuV 30.54 14.44 23.52 13.41 25.49 17.49 21.42 11.50	Correct Factor dB 9.58 9.58 9.61 9.61 9.61 9.61 9.61 9.60 9.60	Measure- ment dBuV 40.12 24.02 33.13 23.02 35.10 27.10 31.02 21.10	dBu∨ 65.34 55.34 56.00 46.00 56.00 46.00 56.00 56.00	dB -25.22 -31.32 -22.87 -22.98 -20.90 -18.90 -24.98 -24.90	Detector QP AVG QP AVG QP AVG QP AVG
No. Mk. 1 0 2 0 3 0 4 0 5 0 6 * 0 7 1 8 1 9 1 10 1	Freq. MHz .1624 .1624 .6140 .6140 .6780 .6780 .0500 .0500 .3300	Reading Level dBuV 30.54 14.44 23.52 13.41 25.49 17.49 21.42 11.50 10.18	Correct Factor dB 9.58 9.58 9.61 9.61 9.61 9.61 9.60 9.60 9.60	Measure- ment dBuV 40.12 24.02 33.13 23.02 35.10 27.10 31.02 21.10 19.78	dBu∨ 65.34 55.34 56.00 46.00 56.00 46.00 56.00 46.00 56.00	dB -25.22 -31.32 -22.87 -22.98 -20.90 -18.90 -24.98 -24.90 -36.22	Detector QP AVG QP AVG QP AVG QP AVG QP



Femperature	: 25	5°C		Relative	e Humidit	y: 55%	
Fest Voltage	: A(C 240V	RU	- 5	(UPP)	-	
Ferminal:	Ne	eutral		50	6	an b	
Fest Mode:	BL	E TX 2402	Mode				
Remark:	O	nly worse ca	ase is reporte	d	08	-	HE YE
	MMMM					Mar Mar	P:
10 0.150		0.5	(MHz)		5		30.000
No. Mk.	Freq.	Reading Level	Correct	Measure		Over	
	ricq.	Level	Factor	ment	Limit	Over	
	MHz	dBuV	dB	ment dBuV	dBuV	dB	Detector
1 0							Detector QP
	MHz	dBuV	dB	dBuV	dBuV	dB	
2 0	MHz).1620	dBuV 34.64	dB 9.64	dBu∨ 44.28	dBuV 65.36 55.36	dB -21.08	QP
2 0 3 0	MHz 0.1620 0.1620	dBuV 34.64 22.43	dB 9.64 9.64	dBu∨ 44.28 32.07	dBuV 65.36 55.36	dB -21.08 -23.29	QP AVG
2 0 3 0 4 * 0	MHz 0.1620 0.1620 0.6058	dBuV 34.64 22.43 32.40	dB 9.64 9.64 9.59	dBuV 44.28 32.07 41.99	dBuV 65.36 55.36 56.00 46.00	dB -21.08 -23.29 -14.01	QP AVG QP
2 0 3 0 4 * 0 5 0	MHz 0.1620 0.1620 0.6058 0.6058	dBuV 34.64 22.43 32.40 28.33	dB 9.64 9.64 9.59 9.59	dBuV 44.28 32.07 41.99 37.92	dBu∨ 65.36 55.36 56.00 46.00 56.00	dB -21.08 -23.29 -14.01 -8.08	QP AVG QP AVG
2 0 3 0 4 * 0 5 0 6 0	MHz 0.1620 0.1620 0.6058 0.6058 0.9778	dBuV 34.64 22.43 32.40 28.33 29.73	dB 9.64 9.64 9.59 9.59 9.59 9.59	dBuV 44.28 32.07 41.99 37.92 39.32	dBuV 65.36 55.36 56.00 46.00 56.00 46.00	dB -21.08 -23.29 -14.01 -8.08 -16.68	QP AVG QP AVG QP
2 0 3 0 4 * 0 5 0 6 0 7 1	MHz 0.1620 0.1620 0.6058 0.6058 0.9778 0.9778	dBuV 34.64 22.43 32.40 28.33 29.73 23.49	dB 9.64 9.59 9.59 9.59 9.59 9.59	dBuV 44.28 32.07 41.99 37.92 39.32 33.08	dBu∨ 65.36 55.36 56.00 46.00 56.00 46.00 56.00	dB -21.08 -23.29 -14.01 -8.08 -16.68 -12.92	QP AVG QP AVG QP AVG
2 0 3 0 4 * 0 5 0 6 0 7 1 8 1	MHz 0.1620 0.1620 0.6058 0.6058 0.9778 0.9778 0.9778	dBuV 34.64 22.43 32.40 28.33 29.73 23.49 28.13	dB 9.64 9.59 9.59 9.59 9.59 9.59 9.59 9.60	dBuV 44.28 32.07 41.99 37.92 39.32 33.08 37.73	dBu∨ 65.36 55.36 56.00 46.00 56.00 46.00 56.00 46.00	dB -21.08 -23.29 -14.01 -8.08 -16.68 -12.92 -18.27	QP AVG QP AVG QP AVG QP
2 0 3 0 4 * 0 5 0 6 0 7 1 8 1 9 2	MHz 0.1620 0.1620 0.6058 0.6058 0.9778 0.9778 0.9778 0.9778 0.9778	dBuV 34.64 22.43 32.40 28.33 29.73 23.49 28.13 28.13 24.10 27.87	dB 9.64 9.59 9.59 9.59 9.59 9.59 9.60 9.60 9.64	dBuV 44.28 32.07 41.99 37.92 39.32 33.08 37.73 33.70 37.51	dBu∨ 65.36 55.36 56.00 46.00 56.00 46.00 56.00 46.00 56.00	dB -21.08 -23.29 -14.01 -8.08 -16.68 -12.92 -18.27 -12.30	QP AVG QP AVG QP AVG QP AVG
2 0 3 0 4 * 0 5 0 6 0 7 1 8 1 9 2 10 2	MHz 0.1620 0.1620 0.6058 0.6058 0.9778 0.9778 0.9778 0.9778 0.9778 0.9778 0.9778 0.9778	dBuV 34.64 22.43 32.40 28.33 29.73 23.49 28.13 24.10	dB 9.64 9.59 9.59 9.59 9.59 9.59 9.59 9.60 9.60	dBuV 44.28 32.07 41.99 37.92 39.32 33.08 37.73 33.70	dBu∨ 65.36 55.36 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	dB -21.08 -23.29 -14.01 -8.08 -16.68 -12.92 -18.27 -12.30 -18.49	QP AVG QP AVG QP AVG QP AVG QP



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 ℃	- GUP	Relative Hur	nidity:	55%	
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal					50
Test Mode:	BLE TX 24	02 Mode		NUE	-	
Remark:	Only worse	e case is reported			MU2	
80.0 dBuV/m						
30	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 Martin Martin	4 * 5 * 6 *		15C 3M Radiation Margin -6	L
-20 30.000 40 50	60 70 80	(MHz)	300	400 5	500 600 700	1000.00
No. Mk. Fi		ading Correct vel Factor		Limit	Over	
M	1Hz de	3uV dB/m	dBuV/m	dBuV/m	dB	Detecto
1 37.0	0248 41	.30 -17.70	23.60	40.00	-16.40	QP
2 81.2	2116 43	.36 -22.46	20.90	40.00	-19.10	QP
3 133.	6184 46	.64 -22.46	24.18	43.50	-19.32	QP
4 * 192.	4182 48	.15 -19.85	28.30	43.50	-15.20	QP
5 000	9852 41	.58 -16.53	25.05	46.00	-20.95	QP
5 282.	90JZ 41	.00 10.00				

*:Maximum data x:Over limit !:over margin



Temperature:	25 ℃	Relat	tive Humidity:	55%
Fest Voltage:	DC 3.7V		WID P	
Ant. Pol.	Vertical		6	
fest Mode:	BLE TX 24	02 Mode		
Remark:	Only worse	case is reported	Call De	2 100
80.0 dBuV/m				
	2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			C 15C 3M Radiation Margin -6 dB
20 30.000 40 50	60 70	(MHz)	300 400	500 600 700 1000.0

No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		37.5478	42.79	-17.95	24.84	40.00	-15.16	QP
2		53.3179	46.77	-23.62	23.15	40.00	-16.85	QP
3		82.3588	42.05	-22.40	19.65	40.00	-20.35	QP
4	*	135.5062	53.05	-22.47	30.58	43.50	-12.92	QP
5		191.0738	44.19	-19.82	24.37	43.50	-19.13	QP
6		472.1759	32.98	-11.38	21.60	46.00	-24.40	QP

^{*:}Maximum data x:Over limit !:over margin

TOBY

Above 1GHz

emp	perature:	25 ℃	Relative Hu	imidity: 55%				
est '	Voltage:	DC 3.7V						
nt. I	Pol.	Horizontal		A DULL				
est	Mode:	BLE Mode TX 2	2402 MHz					
ema	ark:	No report for the prescribed limit.	e emission which more th	an 10 dB below the				
0.0	dBuV/m							
				(RF) FCC PART 15C (PEAK)				
-	1 X			(RF) FCC PART 15C (AVG)				
50	2							
	×							
0.0								
	1.000 3550.00 E	100.00 8650.00 11	200.00 13750.00 16300.00 188	250.00 21400.00 26				

No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4805.422	43.93	14.44	58.37	74.00	-15.63	peak
2	*	4805.422	28.87	14.44	43.31	54.00	-10.69	AVG



Tem	perature	e:	25℃			Relative Hur	nidity:	55%	
Tes	t Voltage):	DC 3.7	V	3	110	100		
nt	. Pol.		Vertica		-	21	Gal	139	
es	t Mode:		BLE Mode TX 2402 MHz						
Ren	nark:			ort for the e bed limit.	mission	which more th	an 10 dB	below the	
100.0	dBuV/m								
							(RF) FCC	Part 15C (Peak)	
		2 X					(BF) FC	C PART 15C (AV6)	
50		1							
		×							
0.0									

No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.064	29.68	14.42	44.10	54.00	-9.90	AVG
2		4804.276	42.30	14.43	56.73	74.00	-17.27	peak



Ter	nperatur	e:	25℃			Relative Humidity	: 55%					
Tes	t Voltag	e:	DC 3.7	V		A GUDE						
\n	t. Pol.		Horizor	ntal	-		182					
ſes	t Mode:		BLE M	ode TX 2442	2 MHz		A 4 6					
Rei	mark:			ort for the er bed limit.	nission \	which more than 10 d	B below the					
100.	D dBuV/m											
						(RF) F	CC PART 15C (PEAK)					
		1 X				IBEL	FCC FART 15C (AVG)					
50		2										
		ž										
0.0												

No.	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4884.048	43.43	14.92	58.35	74.00	-15.65	peak
2	*	4885.122	29.98	14.93	44.91	54.00	-9.09	AVG



Tem	perature):	25℃			Relative H	lumidity:	55%
Test	Voltage	:	DC 3.7	٧V		A AL	1999	
Ant.	Pol.		Vertica	d 🔰		211	Gal	182
Test	est Mode: BLE Mode TX 244			442 MHz		8 V		
Rem	nark:			ort for the		which more	han 10 dB	below the
100.0	dBuV/m							
							(RF) FCC	PART 15C (PEAK)
		2 X					(BF) FC	C PART 15C (AVG)
50		1						
		×						
0.0								

N	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4882.500	29.63	14.91	44.54	54.00	-9.46	AVG
2		4883.316	43.14	14.91	58.05	74.00	-15.95	peak



Ten	nperature:		25 ℃			Relative	Humidity:	55%		
Tes	t Voltage:		DC 3.7V	Call	30	- 6	NOP -			
Ant	t. Pol.		Horizont	al	1	20	Gal	132		
Tes	t Mode:		BLE Mo	de TX 24	480 MHz		<u>a</u> v	200		
Rer	mark:		1.12	No report for the emission which more than 10 dB below the prescribed limit.						
100.0) dBuV/m									
							(RF) FCC	Part 15C (Peak)		
		2 X					(RF) FCI	: PART 15C (AVG)		
50		1								
		×								
0.0										
0.0	00.000 3550.00	61	00.00 865	0.00 112	0.00 13750.	0 16300.00	18850.00 2140	0.00 26500.		

No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4958.500	29.62	15.39	45.01	54.00	-8.99	AVG
2		4960.696	43.98	15.40	59.38	74.00	-14.62	peak



Ten	nperature	:	25℃			Relative H	lumidity:	55%
Tes	t Voltage		DC 3.7	V	3			
Ant	t. Pol.		Vertica				GUI	182
Tes	t Mode:		BLE M	ode TX 2	480 MHz			
Rer	mark:			ort for the bed limit.		n which more t	han 10 dB	below the
100.0) dBuV/m							
							(RF) FCC	Part 15C (Peak)
		1 X					(BE) EC	FART 15C (AVG)
50		2					()	,
		Ŷ						
0.0								

No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.808	43.23	15.39	58.62	74.00	-15.38	peak
2	*	4959.808	29.82	15.39	45.21	54.00	-8.79	AVG



Attachment C-- Restricted Bands Requirement Test Data

Temperature:	25℃		Relati	ve Humidity	/: 55	%
Test Voltage:	DC 3.7V		MUP		1220	
Ant. Pol.	Horizontal			an su		an
Test Mode:	BLE Mode	TX 2402 MH	lz	Charles of	63	
Remark:	N/A		100			-
110.0 dBuV/m						
						з Х
					(RF) FCC PAR	IT 15C (PEAK)
						-+/
60					(RF) FCC PA	RT 15C (AVG)
					1 X	
					2	
					×	
10.0						
2308.000 2318.0	0 2328.00 233	8.00 2348.00	2358.00 23	68.00 2378.00	2388.00	2408.
No. Mix		<u> </u>		asure-	mit (Over
No. Mk.				ion		
			Dim		uV/m	dB Det
1 23	390.000 4	3.13 2	.82 4	5.95 74	4.00 -	28.05 p
2 23	390.000 3	2.00 2	.82 3	4.82 54	4.00 -	19.18 A
3 * 24	101.800 9	8.00 2	.87 10	0.87 Funda	mental Free	quency p



				1	
Temperature:	25℃		Relative Hun	nidity: 55	5%
Test Voltage:	DC 3.7V		CHI CHI		a
Ant. Pol.	Vertical		2010	11.0	
Test Mode:	BLE Mode	TX 2402 MHz			
Remark:	N/A	N11	CUL:	2	Aller
100.0 dBuV/m					
					4
					×
				(RF) FCC PAI	RT 15C (PEAK)
					<u>з</u> Х
50				(11)10017	
					1 X
					2 X
0.0	2326.00 2336.	00 2346.00 23	56.00 2366.00 2	2376.00 2386.00	2406.00 MHz
2300.000 2310.00					2400.00 MH2
No. Mk.		ading Corre evel Fact		- Limit	Over
		D-11	dD- Mar	dBuV/m	
		ub/ii			
		1.13 2.82		74.00	-30.05 peak
	0.000 29	9.20 2.82	32.02	54.00	-21.98 AVG
3 X 240	02.200 64	4.79 2.87	67.66	– Fundamental Fi	requency AVG
4 * 240	02.400 87	7.09 2.87	89.96	– Fundamental F	requency peak



Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	AUL A	
Ant. Pol.	Horizontal	In I For	
Test Mode:	BLE Mode TX 2480	MHz	100
Remark:	N/A	a dim	a Alle
120.0 dBuV/m			
1 X			
2			
70		(RF) FCC F	'ART 15C (PEAK)
70 4 X			
		(RF) FCC	PART 15C (AVG)
7 ×			
	~		
20.0			
2475.000 2485.00	2495.00 2505.00 2515.00	2525.00 2535.00 2545.00 2555.	00 2575.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2479.600	101.21	3.38	104.59	Fundamental	Frequency	peak
2	Х	2480.000	74.09	3.38	77.47	- Fundamental	Frequency	AVG
3		2483.500	48.05	3.41	51.46	54.00	-2.54	AVG
4		2483.500	62.03	3.41	65.44	74.00	-8.56	peak



Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 3.7V Ant. Pol. Vertical Test Mode: BLE Mode TX 2480 MHz Emark: N/A 100.0 dBuV/n (IP) FLC PART 15C (PEAK) (IP) FLC PART 15C (PEAK) 2 3 4 9 (IP) FLC PART 15C (PEAK) (IP) FLC PART 15C (PEAK) 3 4 9 255.00 255.00 255.00 255.00 2575.00 2575.00 4 4 6 Freq. Reading Correct Measure- Factor Measure- ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency Peak 2 2 2483.500 40.49 3.41 43.90 54.00 -10.10 AVG						ALL P	
Ant. Pol. Vertical Test Mode: BLE Mode TX 2480 MHz Remark: N/A 100.0 dBuV/n 2x 4 4x (HF) FCC PART 15C (PCAK) 50 7 4x (HF) FCC PART 15C (PCAK) 50 7 4x (HF) FCC PART 15C (PCAK) 50 7 50 7 50 7 4x (HF) FCC PART 15C (PCAK) 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7 50 <td< th=""><th>Temperature:</th><th>25℃</th><th>F</th><th>Relative Humic</th><th>lity:</th><th>55%</th><th></th></td<>	Temperature:	25 ℃	F	Relative Humic	lity:	55%	
Test Mode: BLE Mode TX 2480 MHz Remark: N/A 100.0 dBuV/n 2 x 0 3 2495.00 2595.00 2475.000 2495.00 2595.00 2595.00 2475.000 2495.00 2595.00 2595.00 2595.00 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2483.500 40.49 3.41 43.90 54.00 -10.10 AVG	Test Voltage:	DC 3.7V		- AU			
Remark: N/A 100.0 dBuV/m 2	Ant. Pol.	Vertical		30	100	133	
100.0 dBuV/n 2 x (HF) FCC PART 15C (PEAK) 4 (HF) FCC PART 15C (PEAK) 50 2495.00 2595.00 2495.00 2495.00 2595.00 2595.00 50 2495.00 2595.00 2595.00 2595.00 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency Peak 3 <th>Test Mode:</th> <th>BLE Mode TX</th> <th>2480 MHz</th> <th></th> <th></th> <th>-</th> <th>23</th>	Test Mode:	BLE Mode TX	2480 MHz			-	23
2 1	Remark:	N/A		(III) DE			
x (PF) FCC PART 15C (PEAK) 4 (PF) FCC PART 15C (PEAK) 50 3 4 (PF) FCC PART 15C (PEAK) 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 3 50 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2595.00 2 2480.200 90.30 3.38 93.68 Fundamental Prequency 2 2483.500 40.49 3 2483							
Image: Second							
Image: Second							
S0 X X X X X X X Z475.000 Z495.00 Z595.00					(RF) FCC F	art 15C (Peak)	J
S0 X X X X X X X Z475.000 Z495.00 Z595.00	X						
S0 X X X X X X X Z475.000 Z495.00 Z595.00	4					PART 15C IANG	
No. Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m<	50				(nr) rcc	FANT ISC (AVU	·
2475.000 2485.00 2495.00 2505.00 2515.00 2525.00 2535.00 2545.00 2555.00 2575.00 MHz No. Mk. Freq. Level Correct Factor Measure- ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.41 43.90 54.00 -10.10 AVG							
2475.000 2485.00 2495.00 2505.00 2515.00 2525.00 2535.00 2545.00 2555.00 2575.00 MHz No. Mk. Freq. Level Correct Factor Measure- ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.41 43.90 54.00 -10.10 AVG							
2475.000 2485.00 2495.00 2505.00 2515.00 2525.00 2535.00 2545.00 2555.00 2575.00 MHz No. Mk. Freq. Level Correct Factor Measure- ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.41 43.90 54.00 -10.10 AVG							
2475.000 2485.00 2495.00 2505.00 2515.00 2525.00 2535.00 2545.00 2555.00 2575.00 MHz No. Mk. Freq. Level Correct Factor Measure- ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.41 43.90 54.00 -10.10 AVG							
2475.000 2485.00 2495.00 2505.00 2515.00 2525.00 2535.00 2545.00 2555.00 2575.00 MHz No. Mk. Freq. Level Correct Factor Measure- ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.41 43.90 54.00 -10.10 AVG							
No. Mk.Freq.Reading LevelCorrect FactorMeasure- mentLimitOverMHzdBuVdB/mdBuV/mdBuV/mdBDetector1X2479.80066.503.3869.88Fundamental FrequencyAVG2*2480.20090.303.3893.68Fundamental Frequencypeak32483.50040.493.4143.9054.00-10.10AVG							
No. Mk. Freq. Level Factor ment Limit Over MHz dBuV dB/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.38 93.68 Fundamental Frequency peak 3 2483.500 40.49 3.41 43.90 54.00 -10.10 AVG	2475.000 2485.00	2495.00 2505.00	2515.00 2525.00	0 2535.00 2545	.00 2555.	00 29	575.00 MHz
MHz dBuV dB/m dBuV/m dBuV/m dBuV/m dB Detector 1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.38 93.68 Fundamental Frequency peak 3 2483.500 40.49 3.41 43.90 54.00 -10.10 AVG			<u> </u>			_	
1 X 2479.800 66.50 3.38 69.88 Fundamental Frequency AVG 2 * 2480.200 90.30 3.38 93.68 Fundamental Frequency peak 3 2483.500 40.49 3.41 43.90 54.00 -10.10 AVG	No. Mk. F	req. Leve	Factor	ment	Limit	Over	
2 * 2480.200 90.30 3.38 93.68 Fundamental Frequency peak 3 2483.500 40.49 3.41 43.90 54.00 -10.10 AVG	Ν	MHz dBu\	/ dB/m	dBuV/m	dBuV/m	dB	Detector
3 2483.500 40.49 3.41 43.90 54.00 -10.10 AVG	1 X 247	9.800 66.5	0 3.38	69.88 Fu	ndamental F	requency	AVG
		0.200 90.3	0 3.38	93.68 Fu	ndamental F	requency	peak
	3 248	3.500 40.4	9 3.41	43.90	54.00	-10.10	AVG
4 2483.500 51.90 3.41 55.31 74.00 -18.69 peak	4 248	3.500 51.9	0 3.41	55.31	74.00	-18.69	peak



(2) Conducted Test

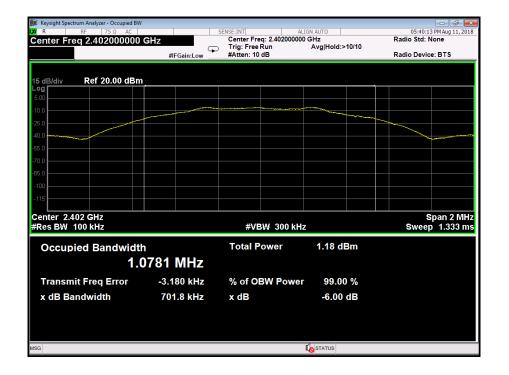
emperature:	25 ℃	Relative Humidity:	55%
est Voltage:	DC 3.7V		
est Mode:	BLE Mode TX 2402	MHz / BLE Mode TX 2480MI	Hz
emark:	The EUT is program	ed in continuously transmitti	ng mode
	n Analyzer - Swept SA		
	RF 75 Ω AC SE 2.356000000 GHz PNO: Fast	NSE:INT ALIGN AUTO Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100	05:41:01 PM Aug 11, 2018 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
B	IFGain:Low	Atten: 30 dB	kr1 2.402 2 GHz
10 dB/div R	ef Offset 3.61 dB ef 23.61 dBm		-1.848 dBm
3.61			1_
-6.39			Î
-26.4			-21.99 dBm
-36.4		<u>4</u>	A3 A2
-56,4 4,	handerson and a sound an	and a second second and the second and the second	
Start 2.30600) GHz		Stop 2.40600 GHz
#Res BW 100	0 kHz #VBW	-	9.600 ms (1001 pts)
MKR MODE TRC S0 1 N 1 1 2 N 1 1	2.402 2 GHz -1.848 d 2.400 0 GHz -54.482 d	Bm Bm	TION VALUE
3 N 1 f 4 N 1 f	<u>56.302 d</u> 2.365 4 GHz -53.494 d	Bm	
6 			
9 10			
K MSG		III	•
			- 6 - X
LXI R F		NSE:INT ALIGN AUTO	05:44:52 PM Aug 11, 2018
LXI R F		NSE:INT ALIGN AUTO AVIG Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018 TRACE 1 2 3 4 5 6 TYPE M DET P NNNNN
Center Freq	2.526000000 GHz SE	Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018
Center Freq	RF 75 Ω AC SE 2.526000000 GHz PNO: Fast Ω	Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018 TRACE 123456 TYPE MWWWWW DET PNNNNN Kr1 2.480 2 GHz
Center Freq	2.526000000 GHz SE	Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018 TRACE 123456 TYPE MWWWWW DET PNNNNN Kr1 2.480 2 GHz
Center Freq	2.526000000 GHz SE	Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN Kr1 2.480 2 GHz
Center Freq	2.526000000 GHz SE	Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018 TRACE 12:8:4:5 TYPE MANNEN DET PININNIN kr1 2:480 2 GHz -1.687 dBm
10 dB/div R 10 dB/div R 13.6 3.61 -6.39 -16.4 -26.4 -36.4 -46.4	E 75 0. AC SEC 2.526000000 GHz PN0: Fast IFGain:Low ef Offset 3.61 dB ef 23.61 dBm	Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018 TRACE 12:8:4:5 TYPE MANNEN DET PININNIN kr1 2:480 2 GHz -1.687 dBm
10 dB/div R 10 dB/div R 13.6 3.61 -6.39 -16.4 -26.4 -36.4	E 75 Ω AC SE 2.526000000 GHZ PN0: Fast IFGain:Low ef Offset 3.61 dB ef 23.61 dBm	Avg Type: Log-Pwr Trig: Free Run Avg Hold:>100/100 Atten: 30 dB	05:44:52 PM Aug 11, 2018 TRACE 12:8:4:5:6 TYPE MANNANA DET PNNNNN kr1 2:480 2 GHz -1.687 dBm
Center Freq 10 dB/div R 10 dB/div R 13.6 3.61 -6.39 -16.4 -26.4 -26.4 -66.4 -66.4 -56.4	E 75 0. AC SE 2.526000000 GHZ PNO: Fast IFGain:Low ef Offset 3.61 dB ef 23.61 dBm 4.3 4.3 0 GHz	Trig: Free Run Avg Type: Log-Pwr Avg Hold:>100/100	05:44:52 PM Aug 11, 2018 TRACE [] 2 3 4 5 5 TYPE N.N.N.N crT 2.480 2 GHz -1.687 dBm -21:73 dBm -21:73 dBm
Center Freq 10 dB/div 13 6 3 61 4 -36 4 -66 4	2.526000000 GHz PN0: Fast [FGain:Low ef Offset 3.61 dB ef 23.61 dB 2.52600000 GHz PN0: Fast [FGain:Low	Trig: Free Run Avg Type: Log-Pwr Atten: 30 dB Avg Hold:>100/100	05:44:52 PM Aug 11, 2018 TRAC [] 2 3 4 5 6 TYPE MANNANNA DET P NINN N Kr11 2.480 2 GHz -1.687 dBm -21:79 dBm
Center Freq 10 dB/div R 10 dB/div R 10 dB/div R 10 dB/div R 10 dB/div R 10 dB/div R 10 dB/div R 10 dB/div R 13 6 3 61 - 5 39 - 16 4 - 26 4 - 26 4 - 26 4 - 46 6 - 4 - 56 4	25 75 0. AC SE 2.526000000 GHz PN0: Fast IFGain:Low ef Offset 3.61 dB ef 23.61 dBm 2 4 3 0 0 CL 2 0 CL 2 2 4 3 4 3 4 4 4 5 6 2 4 4 4 5 6 2 4 4 5 6 7	Arg Type: Log-Pwr Avg Hoid:>100/100 Atten: 30 dB MI Joint Comparison Joint Co	05:44:52 PM Aug 11, 2018 TrAC [] 2 3 4 5 0 TYPE [] 2 4
Center Freq 10 dB/div R 10 dB/div R 13 6 3 61 4 - 56.4 -5	25 75 0. AC SE 2.526000000 GHz PN0: Fast IFGain:Low ef Offset 3.61 dB ef 23.61 dBm 2 4 3 0 0 CL 2 0 CL 2 2 4 3 4 3 4 4 4 5 6 2 4 4 4 5 6 2 4 4 5 6 7	Arg Type: Log-Pwr Avg Hoid:>100/100 Atten: 30 dB MI Joint Comparison Joint Co	05:44:52 PM Aug 11, 2018 TrAC [] 2 3 4 5 0 TYPE [] 2 4
XX R F Center Freq Center Freq 10 dB/div R 13.6 3.61 3.61 1 -3.39 -16.4 -36.4 -36.4 -36.4 -46.4 -56.4 -56.4 Start 2.47600 #Res BW 100 MRR MODE TRCI SC 1 1 N 1 2 N 1 3 N 1 5 6 6 7 8 8	25 75 0. AC SE 2.526000000 GHz PN0: Fast IFGain:Low ef Offset 3.61 dB ef 23.61 dBm 2 4 3 0 0 CL 2 0 CL 2 2 4 3 4 3 4 4 4 5 6 2 4 4 4 5 6 2 4 4 5 6 7	Arg Type: Log-Pwr Avg Hoid:>100/100 Atten: 30 dB MI Joint Comparison Joint Co	05:44:52 PM Aug 11, 2018 TrAC [] 2 3 4 5 0 TYPE [] 2 4
Center Freq 10 dB/div 13 6 3 61 -6 39 -16 4 -66 4 -7 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	25 75 0. AC SE 2.526000000 GHz PN0: Fast IFGain:Low ef Offset 3.61 dB ef 23.61 dBm 2 4 3 0 0 CL 2 0 CL 2 2 4 3 4 3 4 4 4 5 6 2 4 4 4 5 6 2 4 4 5 6 7	Arg Type: Log-Pwr Avg Hoid:>100/100 Atten: 30 dB MI Joint Comparison Joint Co	05:44:52 PM Aug 11, 2018 TrAC [] 2 3 4 5 0 TYPE [] 2 4

Attachment D-- Bandwidth Test Data

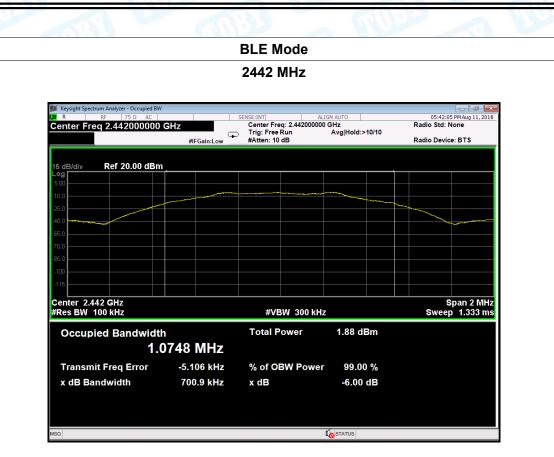
	Temperature:	25℃		Relative Humidity:	55%	
	Test Voltage:DC 3Test Mode:BLEChannel frequency (MHz)		3.7V	een o		
			TX Mode			
2			6dB Bandwidth	6dB Bandwidth 99% Bandwidth		
			(kHz) (kHz)		(kHz)	
	2402		701.8	1078.1		
	2442		700.9	1074.8	>=500	
	2480		700.3	1075.4		
	PLE Mode					

BLE Mode

2402 MHz







BLE Mode

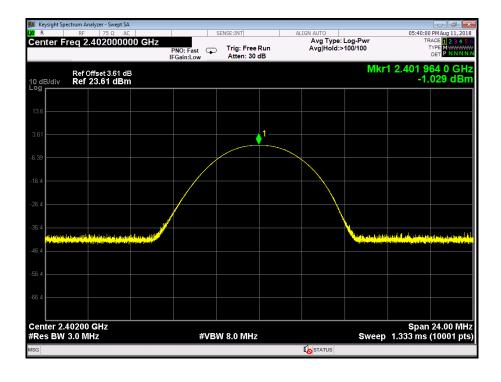
2480 MHz

Keysight Spectrum Analyzer - Occupied BW R RF 75 Ω AC			IGN AUTO	05:43:20 PM Aug 11, 201	
enter Freq 2.480000000	GHz #IFGain:Low	Center Freq: 2.48000000 Trig: Free Run #Atten: 10 dB) GHz Avg Hold:>10/10	Radio Std: None Radio Device: BTS	
i dB/div Ref 20.00 dBm					
2 00					
.0					
i.0					
.0					
.0					
15					
enter 2.48 GHz				Span 2 MH	
Res BW 100 kHz		#VBW 300 kH;	Sweep 1.333 m		
Occupied Bandwidth		Total Power	1.30 dBm		
1.0)754 MHz				
Transmit Freq Error	-4.647 kHz	% of OBW Power	99.00 %		
x dB Bandwidth	700.3 kHz	x dB	-6.00 dB		
			STATUS		

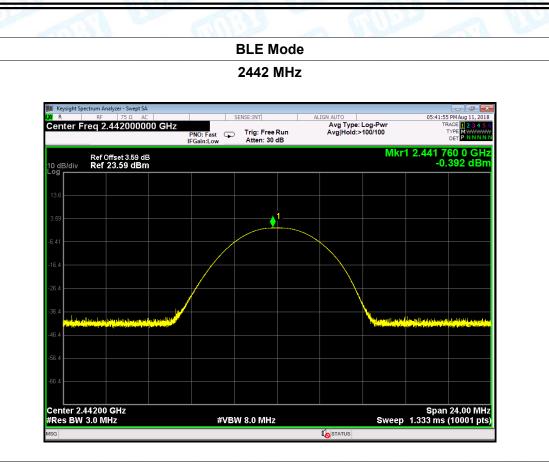


Attachment E-- Peak Output Power Test Data

Temperature:	25 ℃	Relative Hu	midity:	55%	
Test Voltage:	DC 3.7V				
Test Mode:	BLE TX Mode				
Channel freque	ncy (MHz)	Test Result (dBm)		Limit (dBm)	
2402		-1.029			
2442		-0.392 30 -0.899		30	
2480					
		BLE Mode			
		2402 MHz			

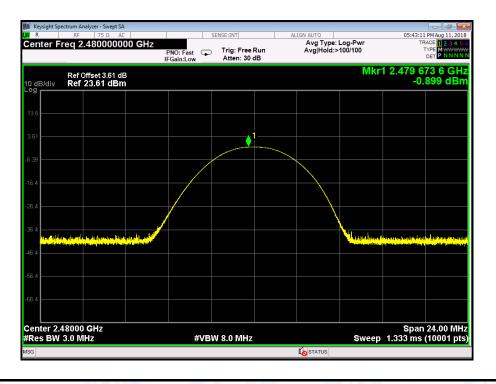






BLE Mode

2480 MHz

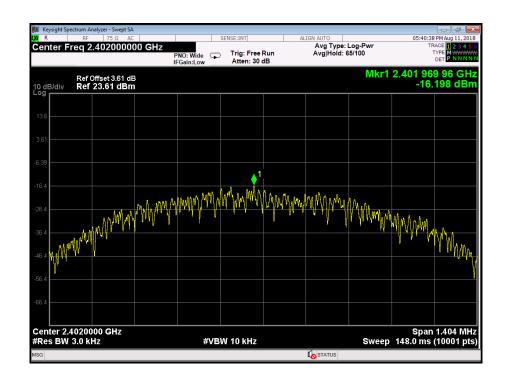


Attachment F-- Power Spectral Density Test Data

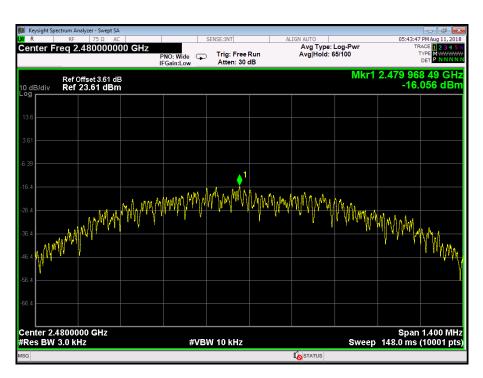
TOBY

Temperature:25°C		Relative H	Relative Humidity:		55%	
Test Voltage:	DC 3.7V			182		
Test Mode:	BLE TX N	lode	aU	1	1905	
Channel Frequency		Power Density	Lim	it	Result	
(MHz)		(dBm)	(dBm)		Result	
2402		-16.198				
2442		-15.563	8	8 PA	PASS	
2480		-16.056				
		BLE Mode				

2402 MHz







BLE Mode 2480 MHz

