

FCC Radio Test Report

FCC ID: 2ASHI-DT96

Original Grant

Report No. : TB-FCC173304
Applicant : SHENZHEN XINKEYING DIGITAL CO.,LIMITED
Equipment Under Test (EUT)
EUT Name : Smart Watch
Model No. : DT96
Series Model No. : DT95, DT86, DT66, DT56, DT52, DT97, DT92,DT59, DT40, DTX
Brand Name : DT NO.I
Sample ID : TBBJ-20200513-08-1#& TBBJ-20200513-08-2#
Receipt Date : 2020-05-25
Test Date : 2020-05-26 to 2020-07-02
Issue Date : 2020-07-02
Standards : FCC Part 15, Subpart C 15.247
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

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

**Test/Witness
Engineer** :

Jack

Jack Deng

**Engineer
Supervisor** :

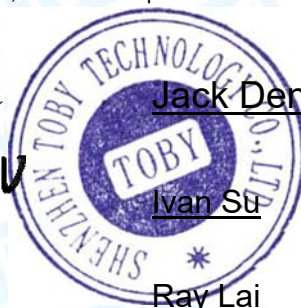
IVAN SU

Ivan Su

Engineer Manager :

Ray Lai

Ray Lai



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

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC173304	Rev.01	Initial issue of report	2020-07-02

1. General Information about EUT

1.1 Client Information

Applicant	:	SHENZHEN XINKEYING DIGITAL CO.,LIMITED
Address	:	Room 17I, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China
Manufacturer	:	SHENZHEN XINKEYING DIGITAL CO.,LIMITED
Address	:	Room 17I, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Smart Watch	
Model(s) No.	:	DT96, DT95, DT86, DT66, DT56, DT52, DT97, DT92,DT59, DT40, DTX	
Model Different	:	All these models are in the same PCB, layout and electrical circuit, the only difference is apperance size, It's all plastic	
Product Description	:	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
		Number of Channel:	Bluetooth 5.0(BLE): 40 channels see note(3)
		RF Output Power:	3.565 dBm (Max)
	:	Antenna Gain:	2.71dBi PIFA Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1Mbps&2Mbps
Power Rating	:	USB Input:DC 5V DC 3.7V by 230mAh Li-ion battery	
Software Version	:	N/A	
Hardware Version	:	Z23V2.0	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

Note:

This Test Report is FCC Part 15.247 for Bluetooth, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v05.

- (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:

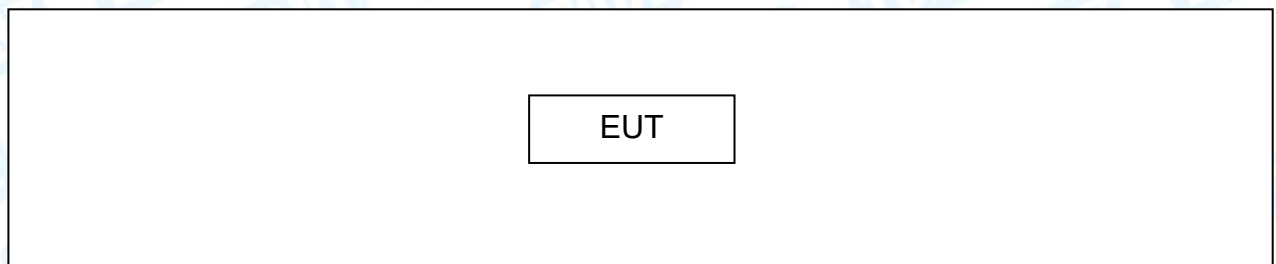
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	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

Conducted Test



Radiated Test



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
ADAPTER		----	BAISHIYUAN	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
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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	USB Charging+TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode(Channel 00) 1Mbps
Mode 3	TX 1Mbps Mode (Channel 00/20/39)
Mode 4	TX 2Mbps Mode (Channel 00/20/39)
Note : The antenna gain provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab.	

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	nRF_DTM		
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})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

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

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

CNAS (L5813)

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

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351.

IC Registration No.: (11950A)

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

2. Test Summary

FCC Part 15 Subpart C(15.247)/RSS 247 Issue 2					
Standard Section		Test Item	Test Sample(s)	Judgment	Remark
FCC	IC				
15.203		Antenna Requirement	TBBJ-20200513-08-2#	PASS	N/A
15.207(a)	RSS-GEN 7.2.4	Conducted Emission	TBBJ-20200513-08-1#	PASS	N/A
15.205&15.247(d)	RSS-GEN 7.2.2	Band-Edge & Unwanted Emissions into Restricted Frequency	TBBJ-20200513-08-2#	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	TBBJ-20200513-08-2#	PASS	N/A
15.247(b)(3)	RSS 247 5.4 (4)	Conducted Max Output Power	TBBJ-20200513-08-2#	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	TBBJ-20200513-08-2#	PASS	N/A
15.205, 15.209&15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious &Unwanted Emissions into Restricted Frequency	TBBJ-20200513-08-2#	PASS	N/A
Note: N/A is an abbreviation for Not Applicable.					

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFTtest	V2.0.0.0

4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 13, 2019	Jul. 12, 2020
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 13, 2019	Jul. 12, 2020
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 13, 2019	Jul. 12, 2020
LISN	Rohde & Schwarz	ENV216	101131	Jul. 13, 2019	Jul. 12, 2020
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	FSVR	1311.006K40-10 0945-DH	Jul. 13, 2019	Jul. 12, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.01, 2020	Feb. 28, 2021
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2021
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Aug.07, 2019	Aug. 06, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 13, 2019	Jul. 12, 2020
Pre-amplifier	Sonoma	310N	185903	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	HP	8449B	3008A00849	Mar.01, 2020	Feb. 28, 2021
Pre-amplifier	EMCI	EMC02325	980217	Jul. 27, 2019	Jul. 26, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.01, 2020	Feb. 28, 2021
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 13, 2019	Jul. 12, 2020
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 16, 2019	Sep. 15, 2020
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 16, 2019	Sep. 15, 2020
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 16, 2019	Sep. 15, 2020

5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard
FCC Part 15.207

5.1.2 Test Limit

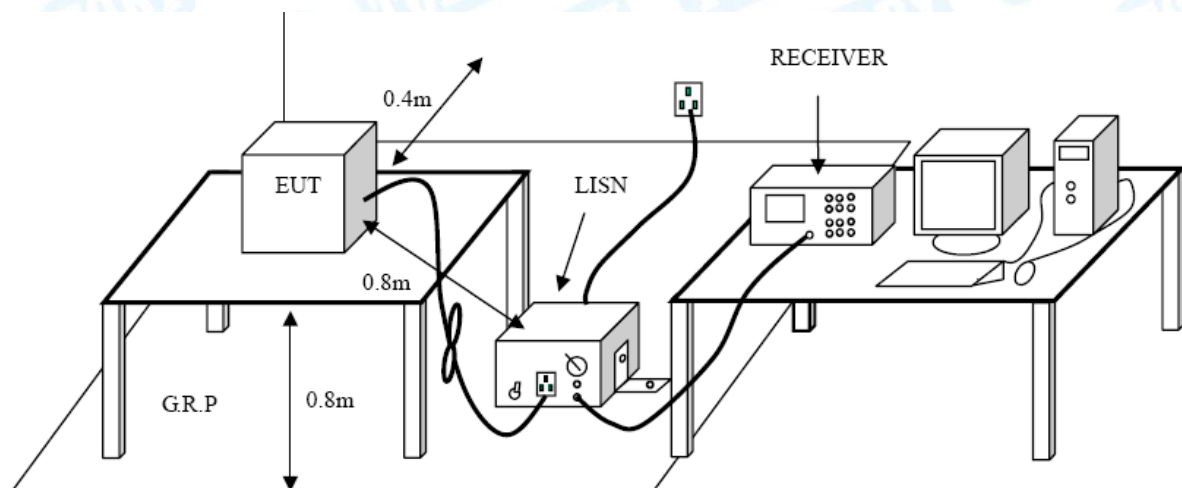
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	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.

5.2 Test Setup



5.3 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.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A.

6. Radiated Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.247(d)

6.1.2 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

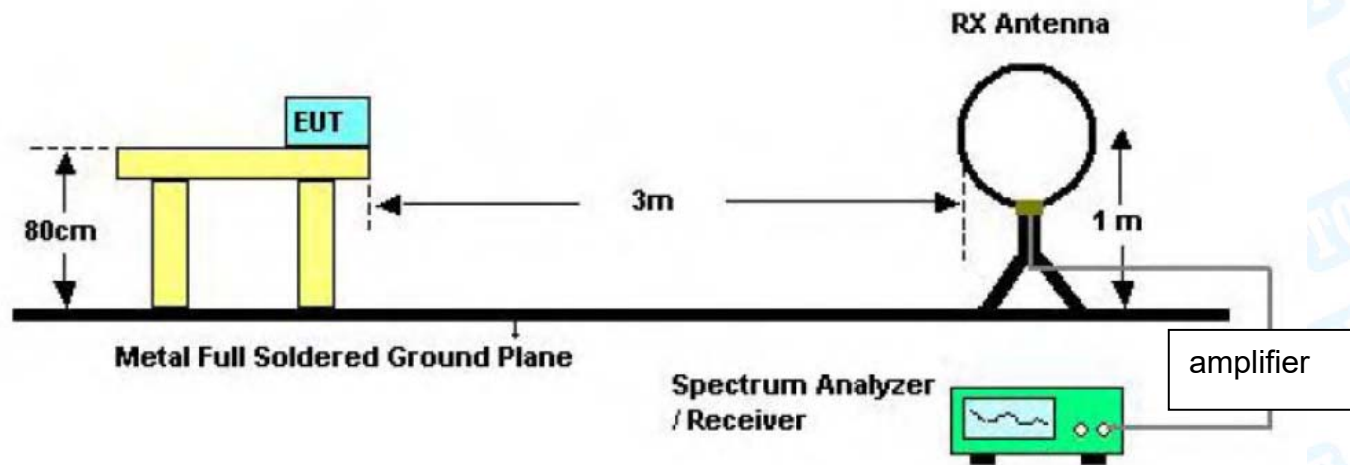
Radiated Emission Limit (Above 1000MHz)

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

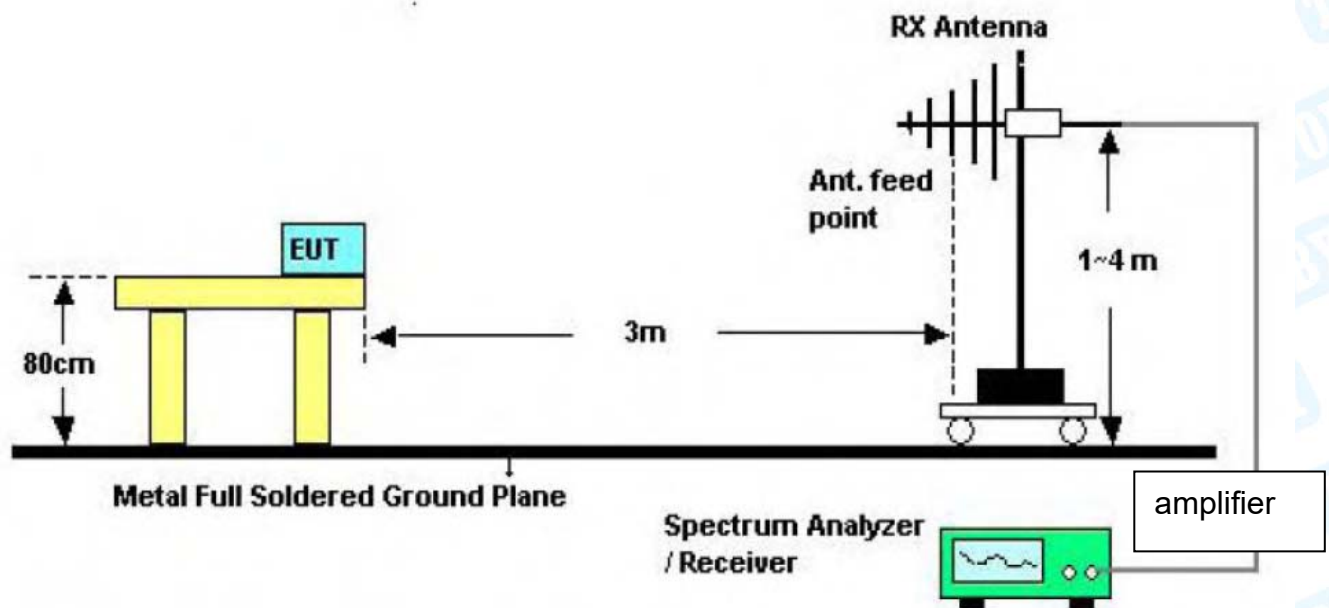
Note:

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

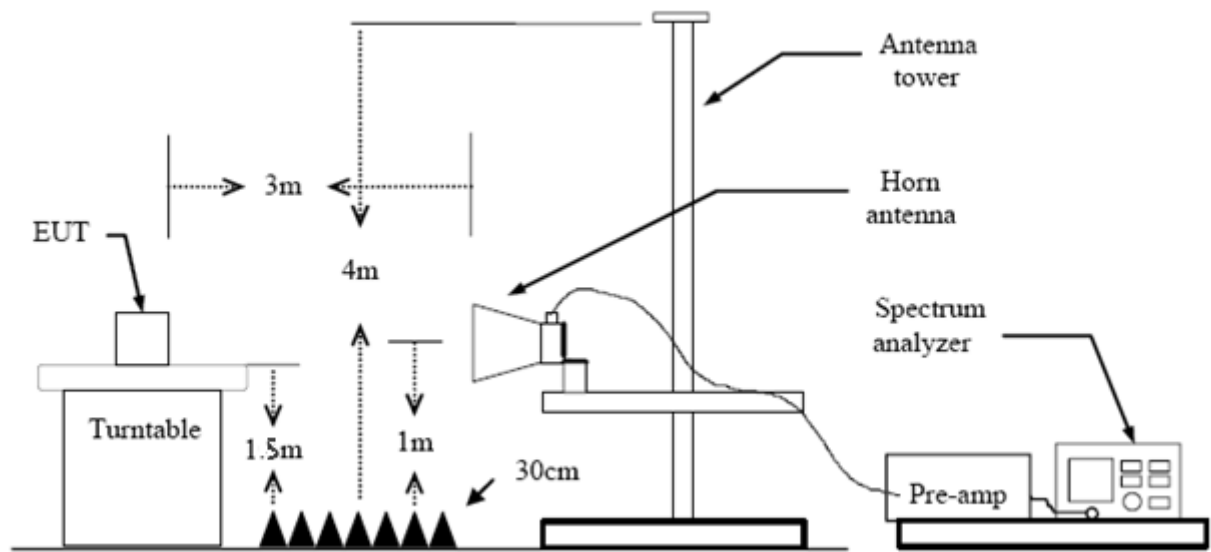
6.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz 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 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

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

6.6 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.

7. Restricted Bands Requirement

7.1 Test Standard and Limit

7.1.1 Test Standard

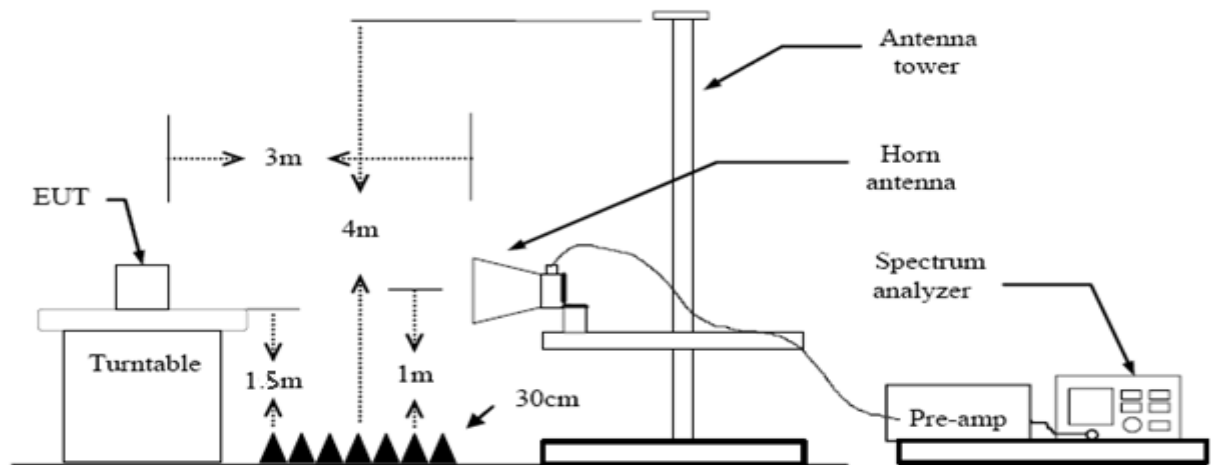
FCC Part 15.247(d)

FCC Part 15.205

7.1.2 Test Limit

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

7.2 Test Setup



7.3 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.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

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

7.6 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.

8. Bandwidth Test

8.1 Test Standard and Limit

8.1.1 Test Standard

FCC Part 15.247 (a)(2)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

8.2 Test Setup



8.3 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.

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

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

8.6 Test Data

Please refer to the Attachment D.

9. Peak Output Power Test

9.1 Test Standard and Limit

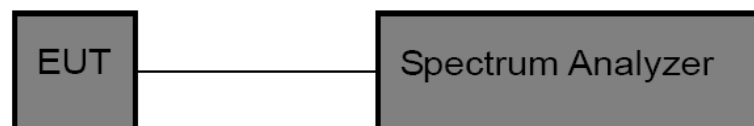
9.1.1 Test Standard

FCC Part 15.247 (b)(3)

9.1.2 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

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 is according to section 9.1.1 of KDB 558074 D01 DTS Meas Guidance v05.

- (1) Set the RBW $\geq$ DTS Bandwidth
- (2) Set VBW $\geq$ 3*RBW
- (3) Set Span $\geq$ 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.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

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

9.6 Test Data

Please refer to the Attachment E.

10. Power Spectral Density Test

10.1 Test Standard and Limit

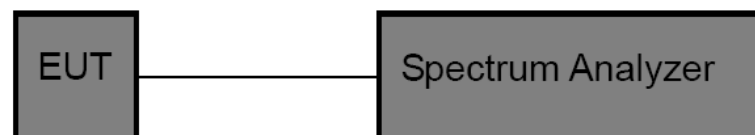
10.1.1 Test Standard

FCC Part 15.247 (e)

10.1.2 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

10.2 Test Setup



10.3 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 v05.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to DTS channel centre 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.

10.4 Deviation From Test Standard

No deviation

10.5 EUT Operating Condition

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

10.6 Test Data

Please refer to the Attachment F.

11. Antenna Requirement

11.1 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.

11.2 Deviation From Test Standard

No deviation

11.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 2.71 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

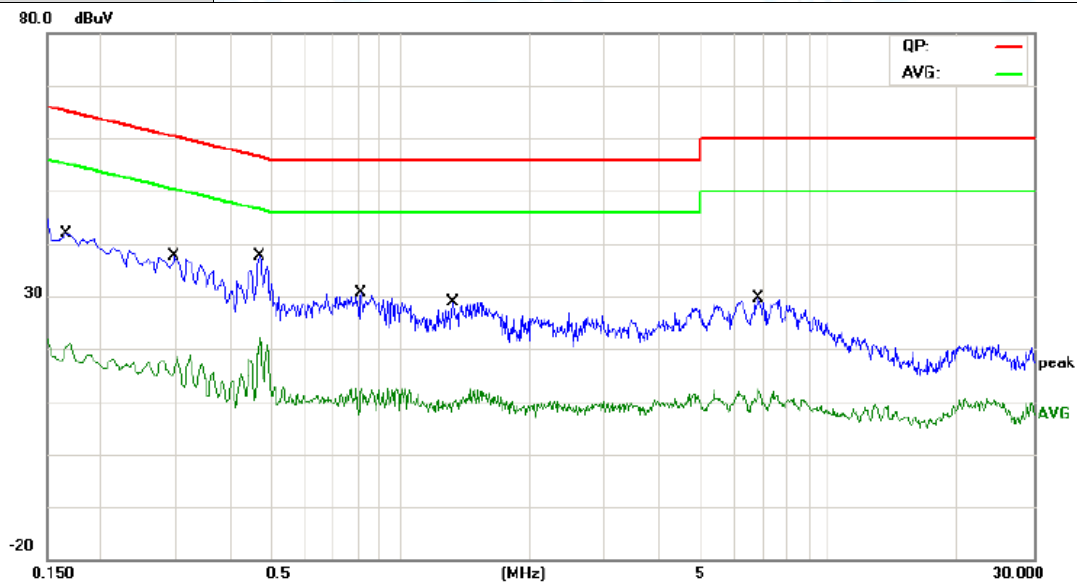
11.4 Result

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

Antenna Type
☒ Permanent attached antenna
☐ Unique connector antenna
☐ Professional installation antenna

Attachment A-- Conducted Emission Test Data

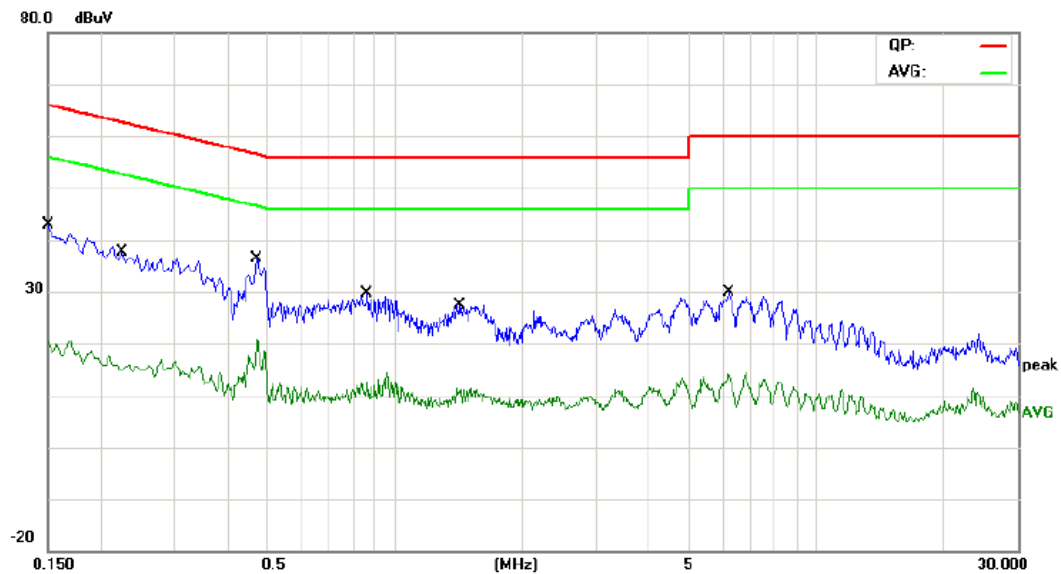
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V 60Hz		
Terminal:	Line		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	28.42	9.78	38.20	65.15	-26.95	QP
2		0.1660	9.74	9.78	19.52	55.15	-35.63	AVG
3		0.2980	23.68	9.85	33.53	60.30	-26.77	QP
4		0.2980	6.12	9.85	15.97	50.30	-34.33	AVG
5	*	0.4700	25.56	9.92	35.48	56.51	-21.03	QP
6		0.4700	11.69	9.92	21.61	46.51	-24.90	AVG
7		0.8100	16.21	9.70	25.91	56.00	-30.09	QP
8		0.8100	1.30	9.70	11.00	46.00	-35.00	AVG
9		1.3260	11.19	9.74	20.93	56.00	-35.07	QP
10		1.3260	-1.06	9.74	8.68	46.00	-37.32	AVG
11		6.8500	13.77	9.82	23.59	60.00	-36.41	QP
12		6.8500	0.33	9.82	10.15	50.00	-39.85	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V 60Hz		
Terminal:	Neutral		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1500	22.75	9.60	32.35	65.99	-33.64	QP
2		0.1500	5.31	9.60	14.91	55.99	-41.08	AVG
3		0.2260	17.90	9.63	27.53	62.59	-35.06	QP
4		0.2260	2.52	9.63	12.15	52.59	-40.44	AVG
5	*	0.4700	14.78	9.77	24.55	56.51	-31.96	QP
6		0.4700	1.63	9.77	11.40	46.51	-35.11	AVG
7		0.8580	8.20	9.70	17.90	56.00	-38.10	QP
8		0.8580	-2.49	9.70	7.21	46.00	-38.79	AVG
9		1.4299	5.02	9.77	14.79	56.00	-41.21	QP
10		1.4299	-3.49	9.77	6.28	46.00	-39.72	AVG
11		6.1940	8.09	9.84	17.93	60.00	-42.07	QP
12		6.1940	-1.65	9.84	8.19	50.00	-41.81	AVG

Emission Level= Read Level+ Correct Factor

Attachment B-- Radiated Emission Test Data

9 KHz~30 MHz

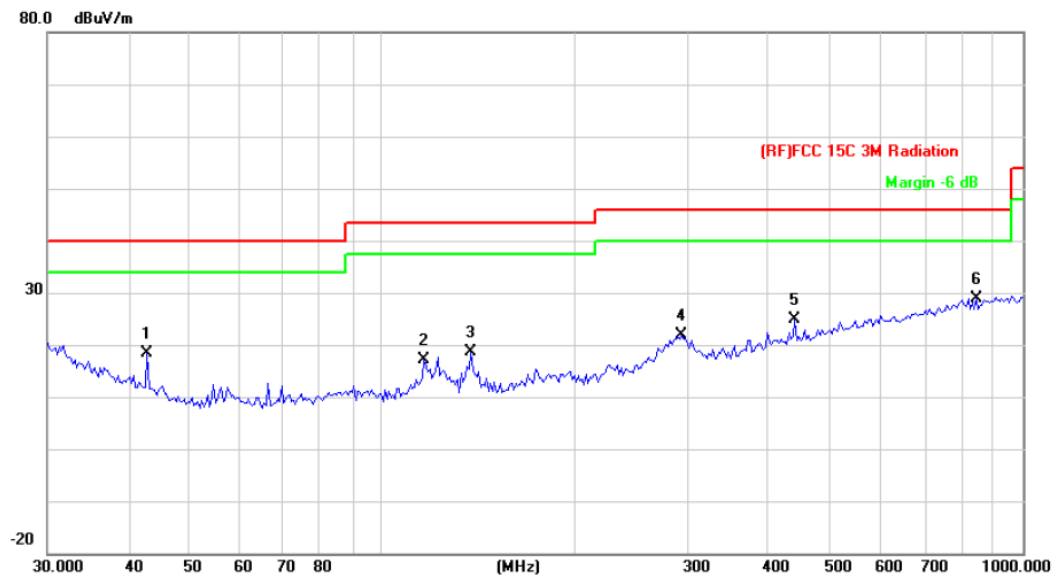
From 9 KHz to 30 MHz: Conclusion: PASS

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℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	Mode 2		
Remark:	Only worse case is reported		

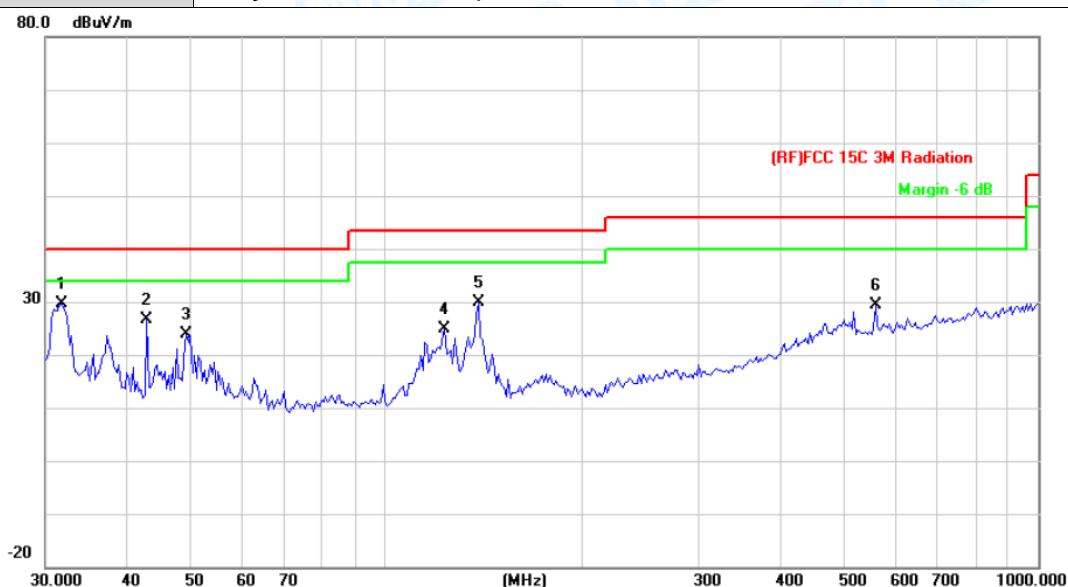


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		42.8998	38.79	-20.40	18.39	40.00	-21.61	QP
2		116.1321	39.43	-22.22	17.21	43.50	-26.29	QP
3		137.4202	40.89	-22.37	18.52	43.50	-24.98	QP
4		293.0842	38.20	-16.41	21.79	46.00	-24.21	QP
5		440.1963	36.91	-12.00	24.91	46.00	-21.09	QP
6	*	845.0878	34.66	-5.87	28.79	46.00	-17.21	QP

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

Emission Level= Read Level+ Correct Factor

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	Mode 2		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	31.7313	43.83	-14.25	29.58	40.00	-10.42	QP
2		42.8998	47.05	-20.40	26.65	40.00	-13.35	QP
3		49.3594	46.77	-22.83	23.94	40.00	-16.06	QP
4		122.8340	46.97	-22.21	24.76	43.50	-18.74	QP
5		138.3873	52.14	-22.37	29.77	43.50	-13.73	QP
6		562.6624	38.24	-8.77	29.47	46.00	-16.53	QP

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

Emission Level= Read Level+ Correct Factor

Above 1GHz

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE(1Mbps) Mode TX 2402 MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4804.780	49.09	12.43	61.52	74.00	-12.48	peak
2	*	4804.780	33.20	12.43	45.63	54.00	-8.37	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE(1Mbps) Mode TX 2402 MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.838	47.94	12.42	60.36	74.00	-13.64	peak
2	*	4803.838	34.18	12.42	46.60	54.00	-7.40	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE(1Mbps) Mode TX 2442 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		4883.112	48.24	12.90	61.14	74.00	-12.86 peak
2	*	4883.112	33.78	12.90	46.68	54.00	-7.32 AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE(1Mbps) Mode TX 2442 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		4884.510	48.43	12.92	61.35	74.00	-12.65 peak
2	*	4884.510	33.70	12.92	46.62	54.00	-7.38 AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE(1Mbps) Mode TX 2480 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4960.888	48.18	13.38	61.56	74.00	-12.44	peak
2	*	4960.888	33.59	13.38	46.97	54.00	-7.03	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE(1Mbps) Mode TX 2480 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		4959.922	47.99	13.37	61.36	74.00	-12.64
2	*	4959.922	33.59	13.37	46.96	54.00	-7.04

peak	Detector
AVG	

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE(2Mbps) Mode TX 2402 MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4804.894	47.82	12.43	60.25	74.00	-13.75	peak
2	*	4804.894	33.12	12.43	45.55	54.00	-8.45	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE(2Mbps) Mode TX 2402 MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4805.338	47.83	12.43	60.26	74.00	-13.74	peak
2	*	4805.338	33.15	12.43	45.58	54.00	-8.42	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE(2Mbps) Mode TX 2442 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4884.930	48.28	12.92	61.20	74.00	-12.80	peak
2	*	4884.930	33.73	12.92	46.65	54.00	-7.35	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE(2Mbps) Mode TX 2442 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4884.348	48.19	12.92	61.11	74.00	-12.89	peak
2	*	4884.348	33.72	12.92	46.64	54.00	-7.36	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE(2Mbps) Mode TX 2480 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4960.624	48.82	13.38	62.20	74.00	-11.80	peak
2	*	4960.624	33.69	13.38	47.07	54.00	-6.93	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE(2Mbps) Mode TX 2480 MHz		
Remark:	No report for the emission which more than 20 dB below the prescribed limit.		

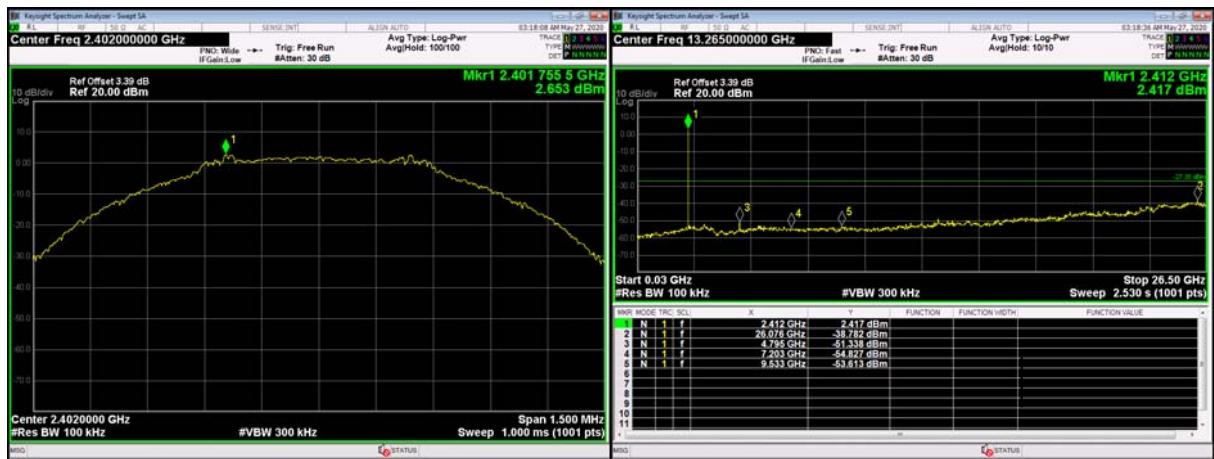
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.774	33.65	13.38	47.03	54.00	-6.97	AVG
2		4961.254	48.76	13.38	62.14	74.00	-11.86	peak

Emission Level= Read Level+ Correct Factor

Conducted Emission Test Data

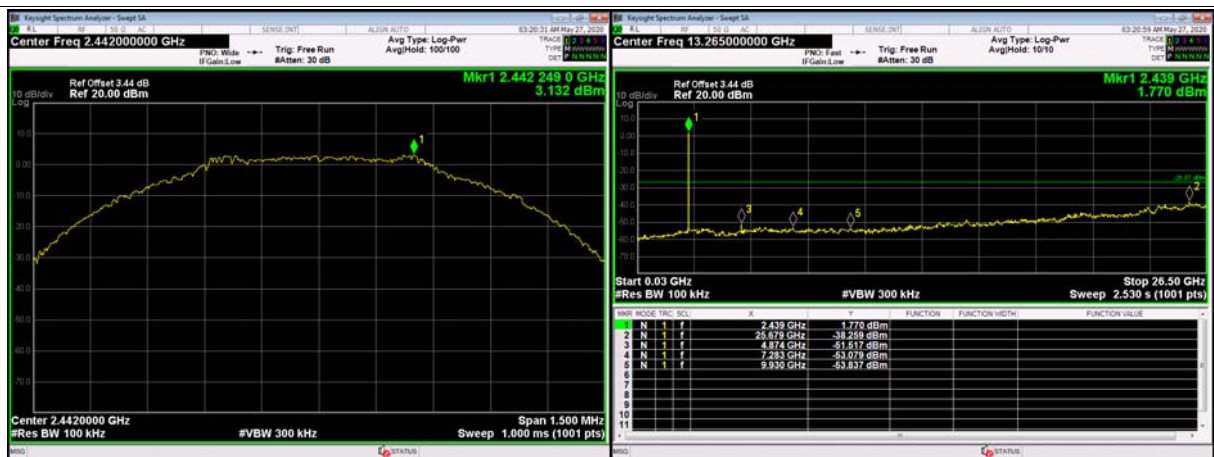
BLE(Only worse case is reported)

2402 MHz(1Mbps)



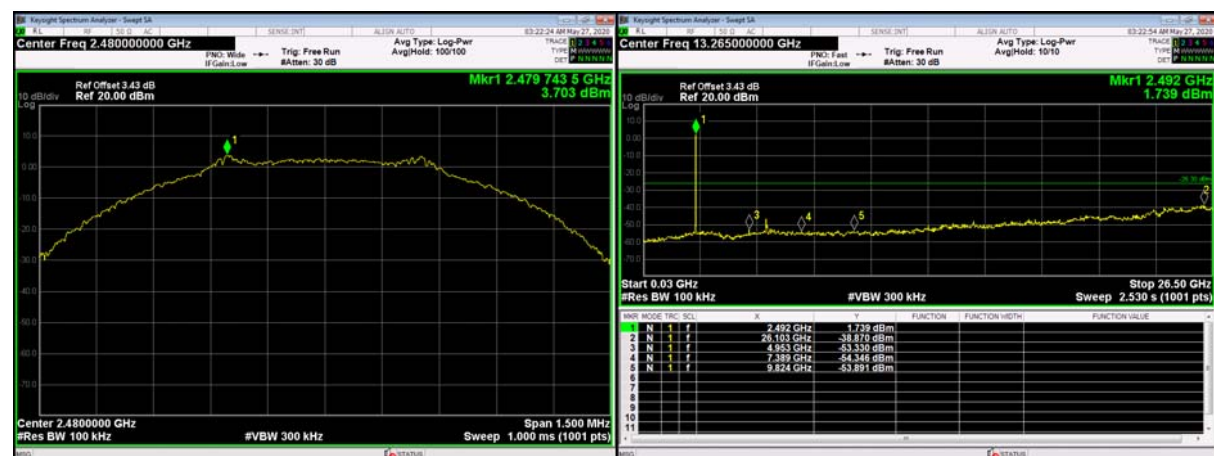
BLE Mode

2442 MHz(1Mbps)



BLE Mode

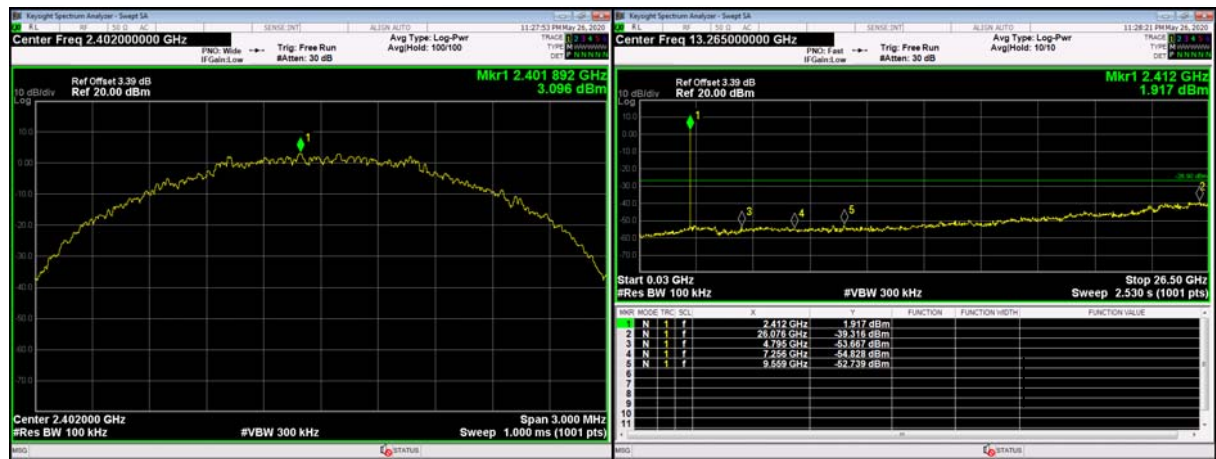
2480 MHz(1Mbps)



Conducted Emission Test Data

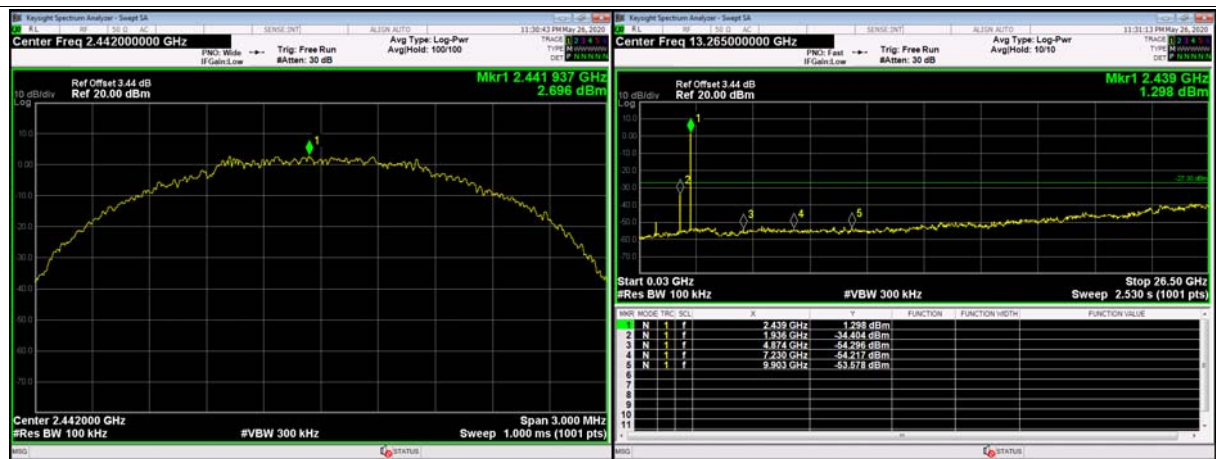
BLE(Only worse case is reported)

2402 MHz(2Mbps)



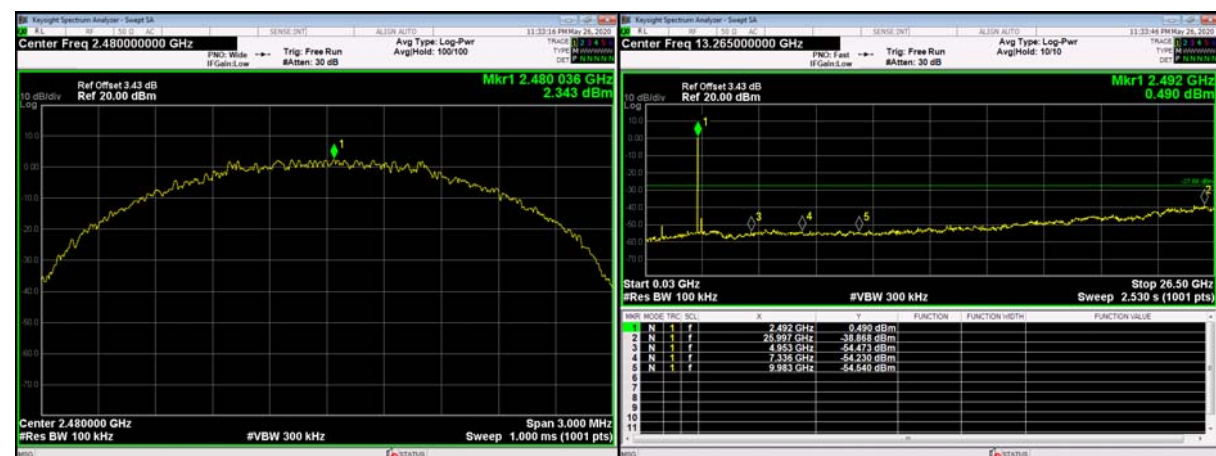
BLE Mode

2442 MHz(2Mbps)



BLE Mode

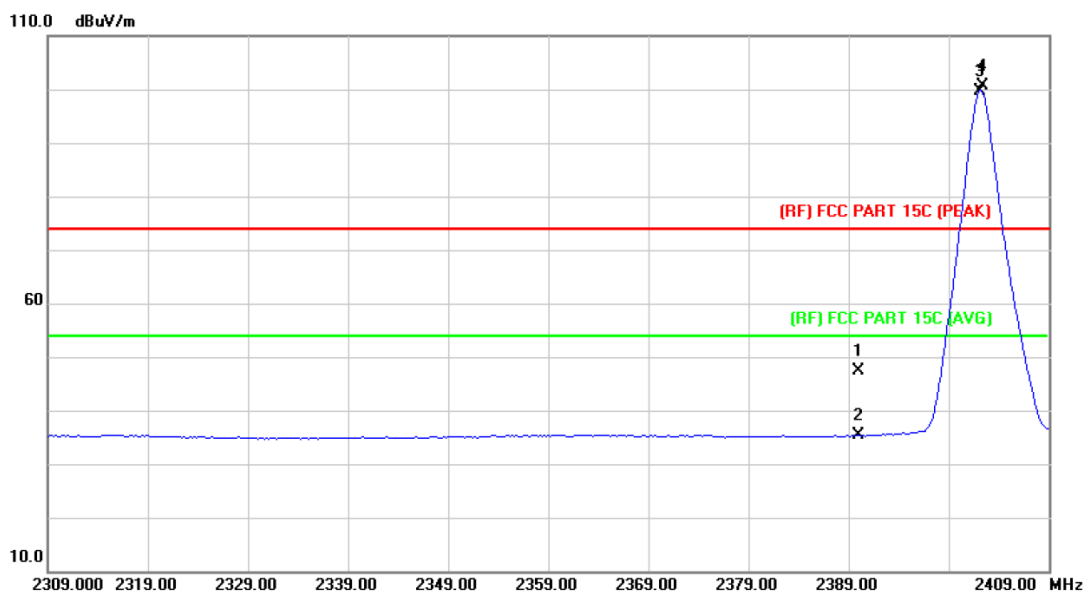
2480 MHz(2Mbps)



Attachment C-- Restricted Bands Requirement and Band Edge Test Data

(1) Radiation Test

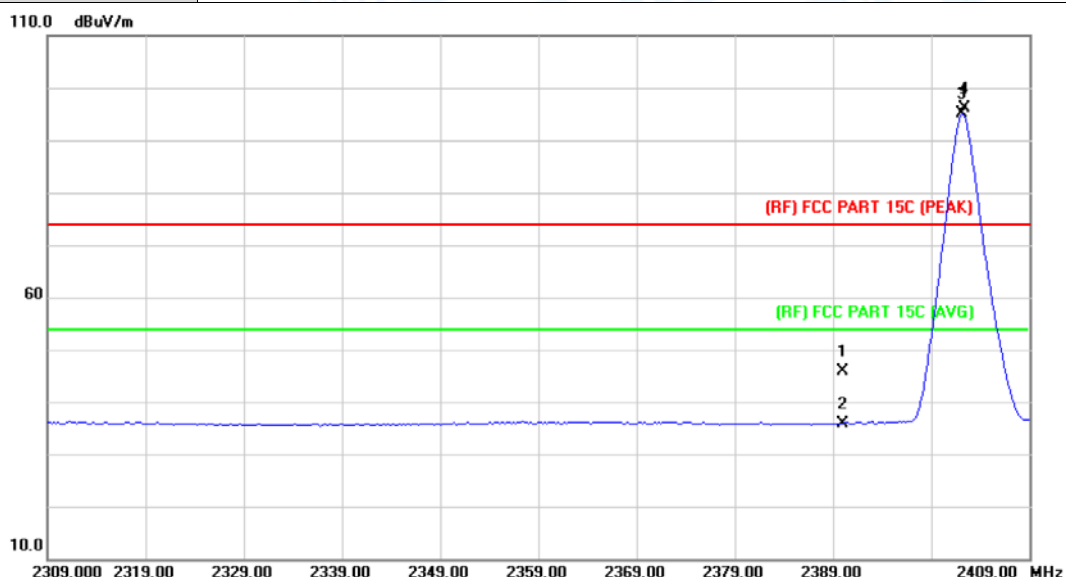
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE Mode TX 2402 MHz (1Mbps)		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.91	1.51	47.42	74.00	-26.58	peak
2		2390.000	33.88	1.51	35.39	54.00	-18.61	AVG
3	*	2402.200	98.19	1.56	99.75	Fundamental Frequency		AVG
4	X	2402.400	99.01	1.56	100.57	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

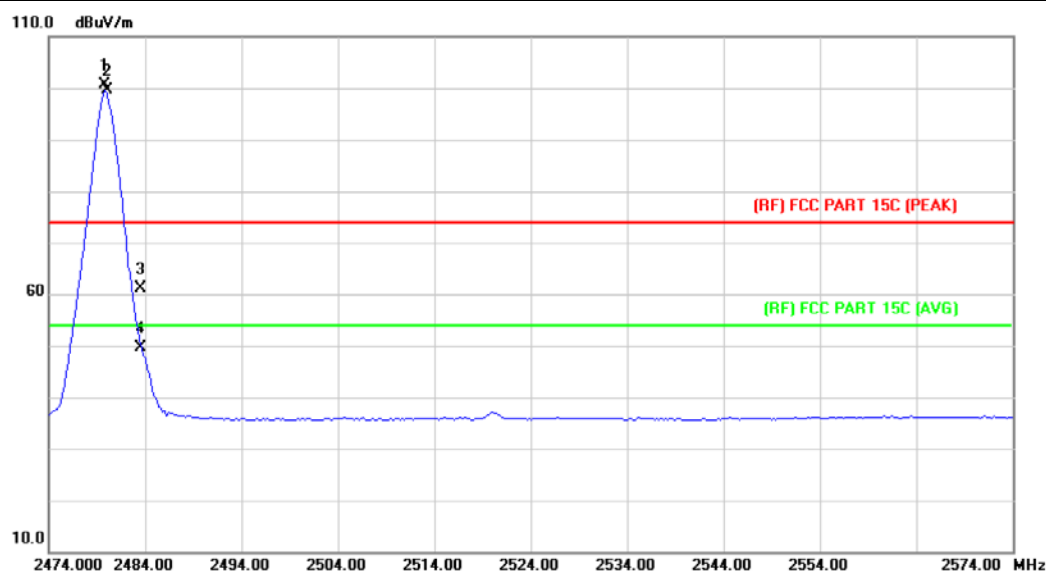
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2402 MHz(1Mbps)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	44.44	1.51	45.95	74.00	-28.05 peak
2		2390.000	34.33	1.51	35.84	54.00	-18.16 AVG
3	*	2402.200	93.51	1.56	95.07	Fundamental Frequency	
4	X	2402.400	94.47	1.56	96.03	Fundamental Frequency	

Emission Level= Read Level+ Correct Factor

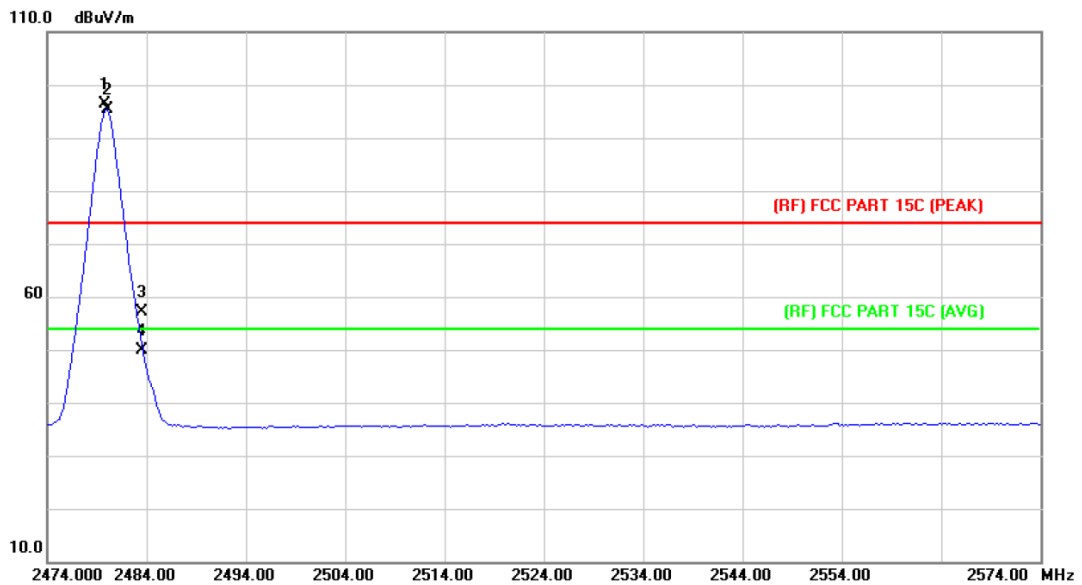
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	BLE Mode TX 2480 MHz (1Mbps)		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2479.800	98.46	2.07	100.53	Fundamental Frequency		peak
2	*	2480.000	97.67	2.07	99.74	Fundamental Frequency		AVG
3		2483.500	59.06	2.10	61.16	74.00	-12.84	peak
4		2483.500	47.56	2.10	49.66	54.00	-4.34	AVG

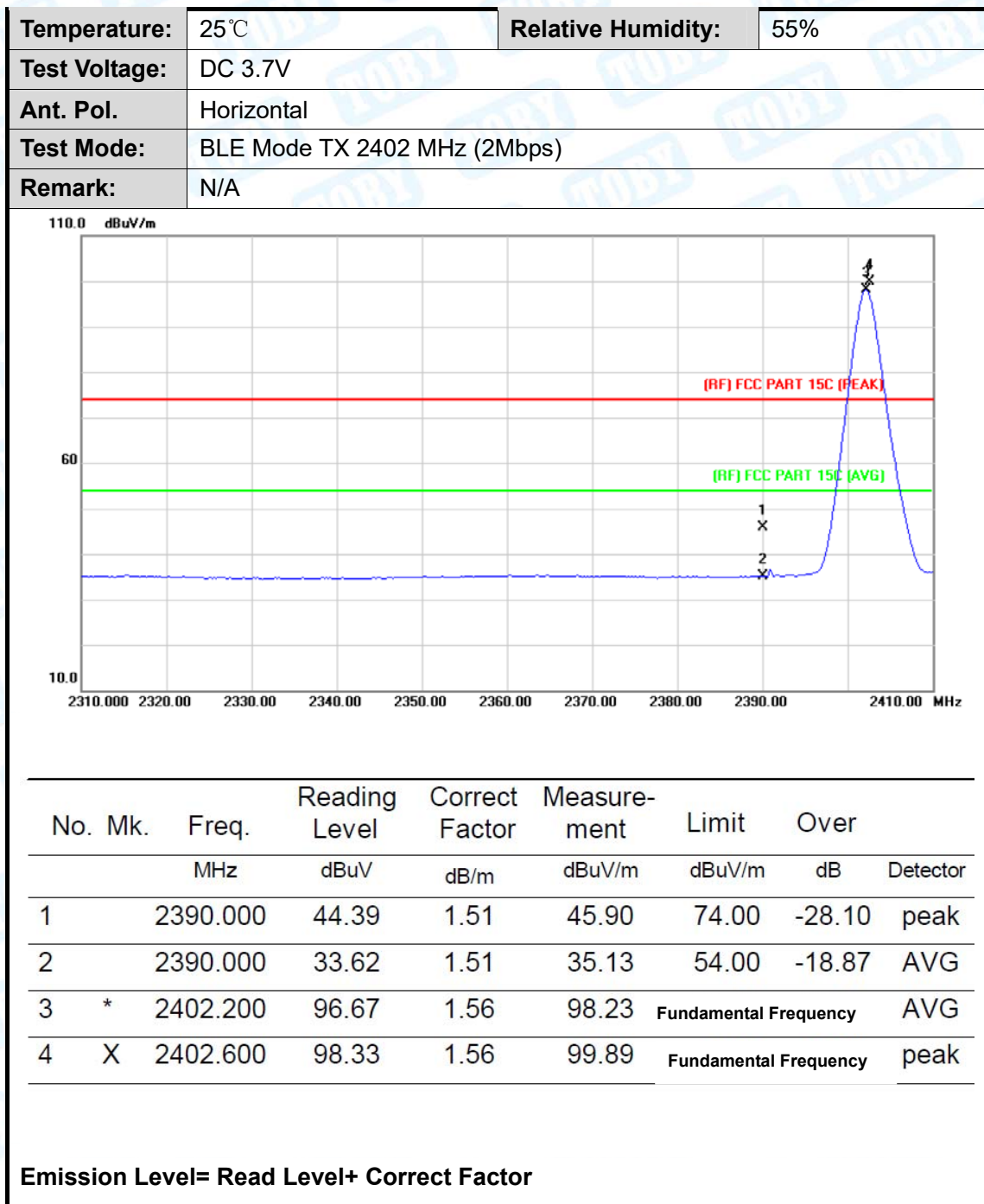
Emission Level= Read Level+ Correct Factor

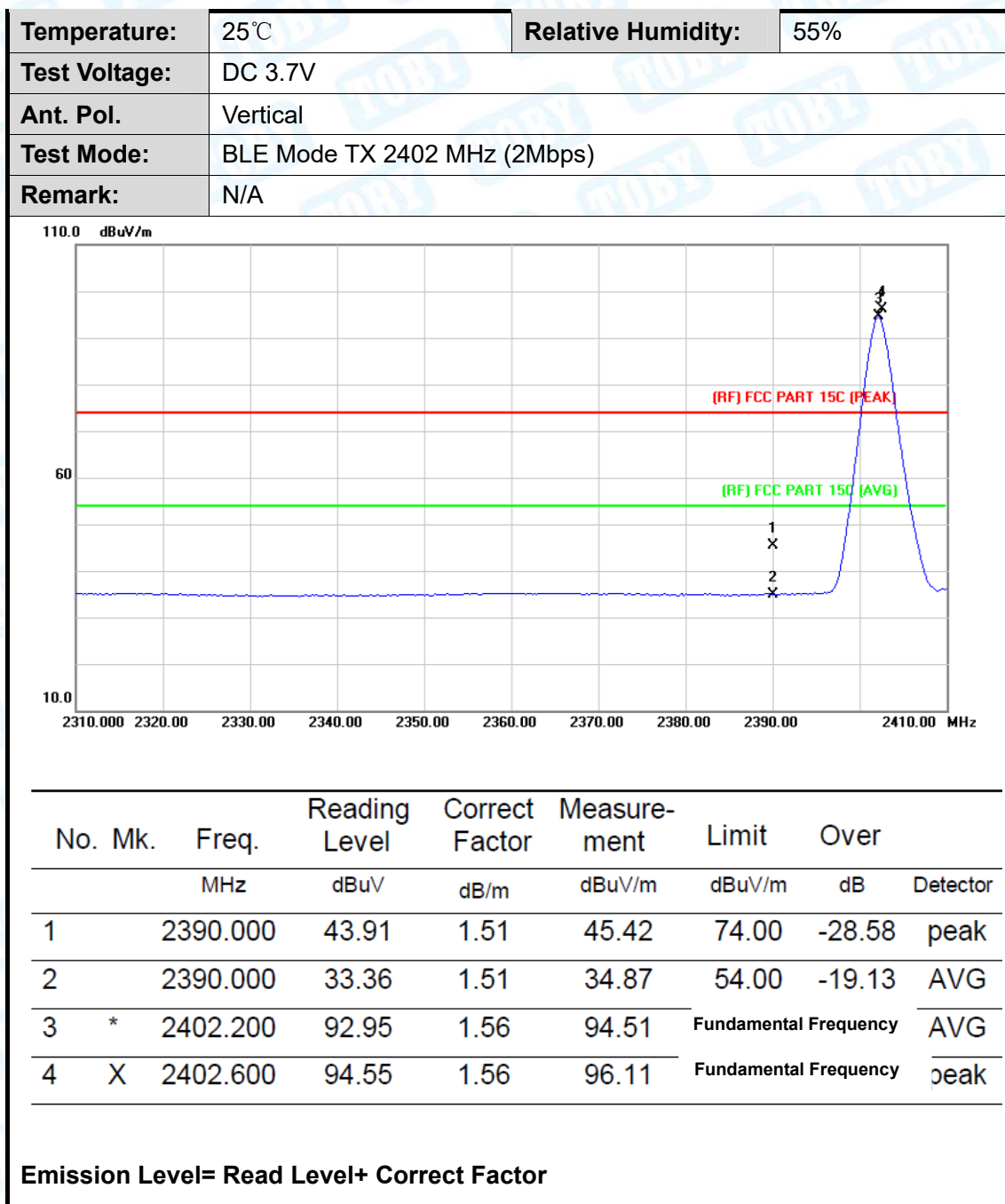
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2480 MHz (1Mbps)		
Remark:	N/A		

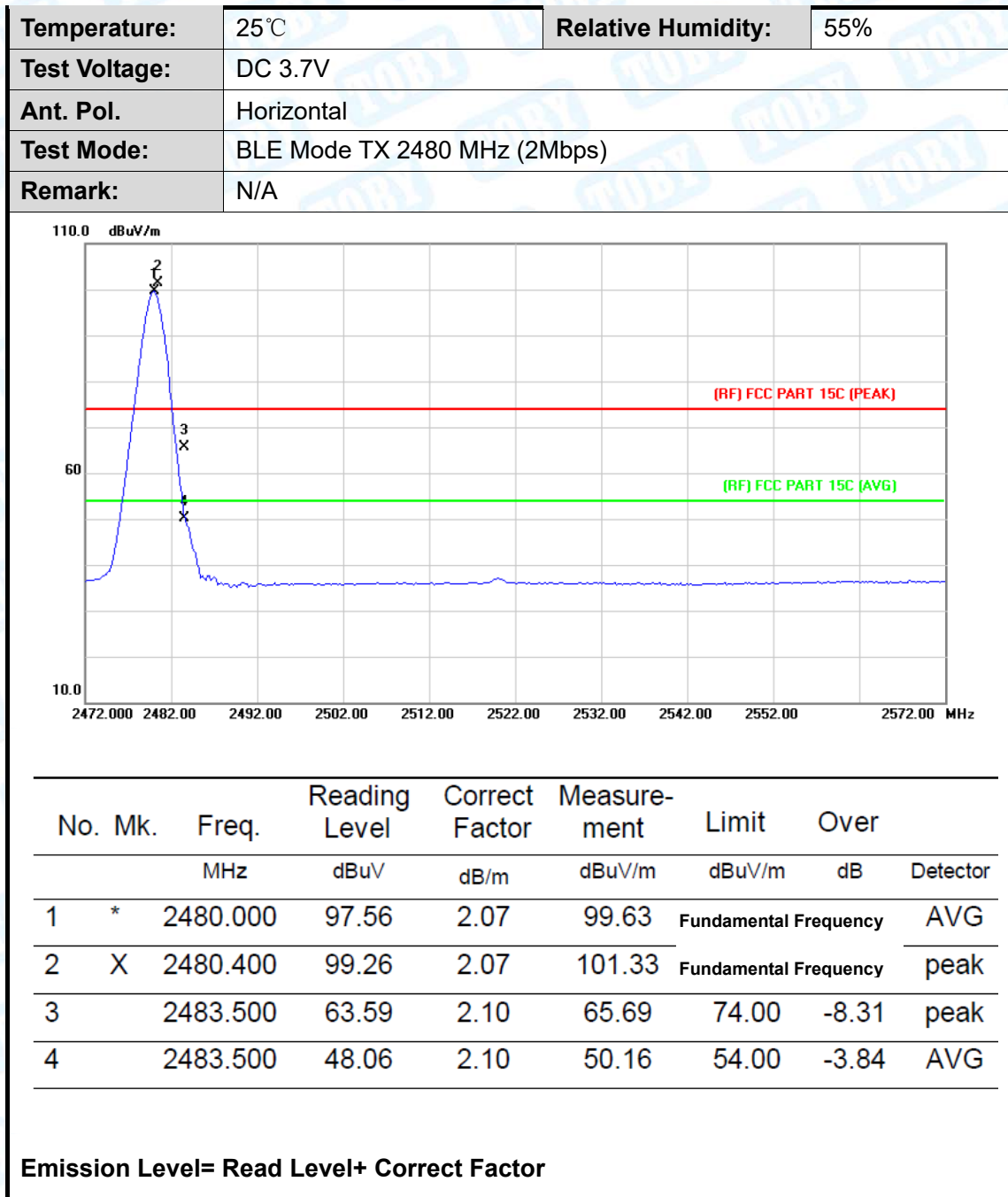


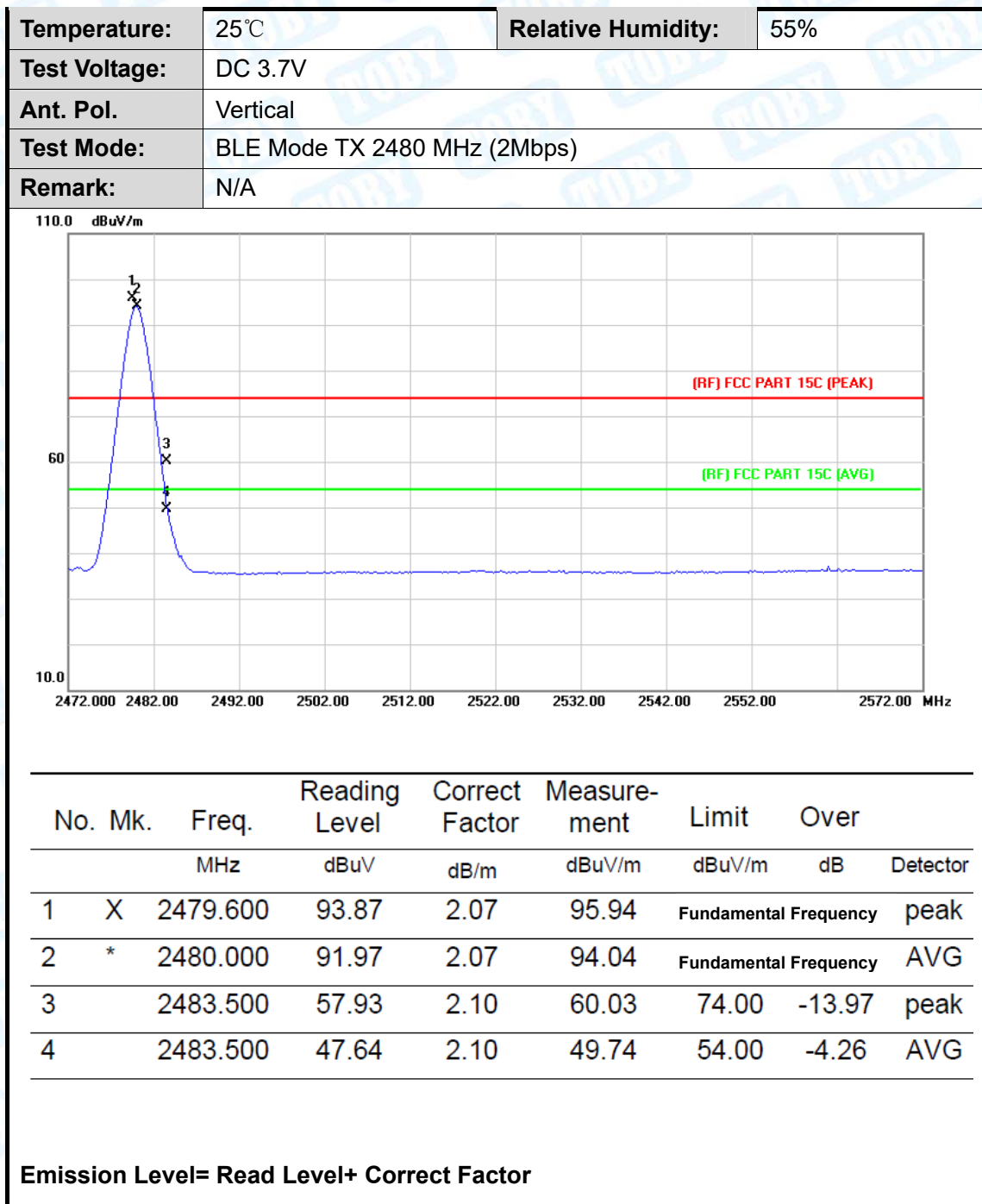
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2479.800	94.27	2.07	96.34	Fundamental Frequency		peak
2	*	2480.000	93.26	2.07	95.33	Fundamental Frequency		AVG
3		2483.500	55.06	2.10	57.16	74.00	-16.84	peak
4		2483.500	47.80	2.10	49.90	54.00	-4.10	AVG

Emission Level= Read Level+ Correct Factor









(2) Conducted Test

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	BLE Mode TX 2402MHz / BLE Mode TX 2480MHz(1Mbps)		
Remark:	The EUT is programed in continuously transmitting mode		

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.356000000 GHz

Ref Offset 3.39 dB
Ref 20.00 dBm

Mkr1 2.402 0 GHz
2.567 dBm

Start 2.30600 GHz
#Res BW 100 kHz

Stop 2.40600 GHz
Sweep 9.600 ms (1001 pts)

#VBW 300 kHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.402 0 GHz	2.567 dBm			
2	N	1	f	2.400 0 GHz	-54.869 dBm			
3	N	1	f	2.390 0 GHz	-58.127 dBm			
4	N	1	f	2.386 2 GHz	-54.004 dBm			

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.526000000 GHz

Ref Offset 3.43 dB
Ref 20.00 dBm

Mkr1 2.480 0 GHz
3.104 dBm

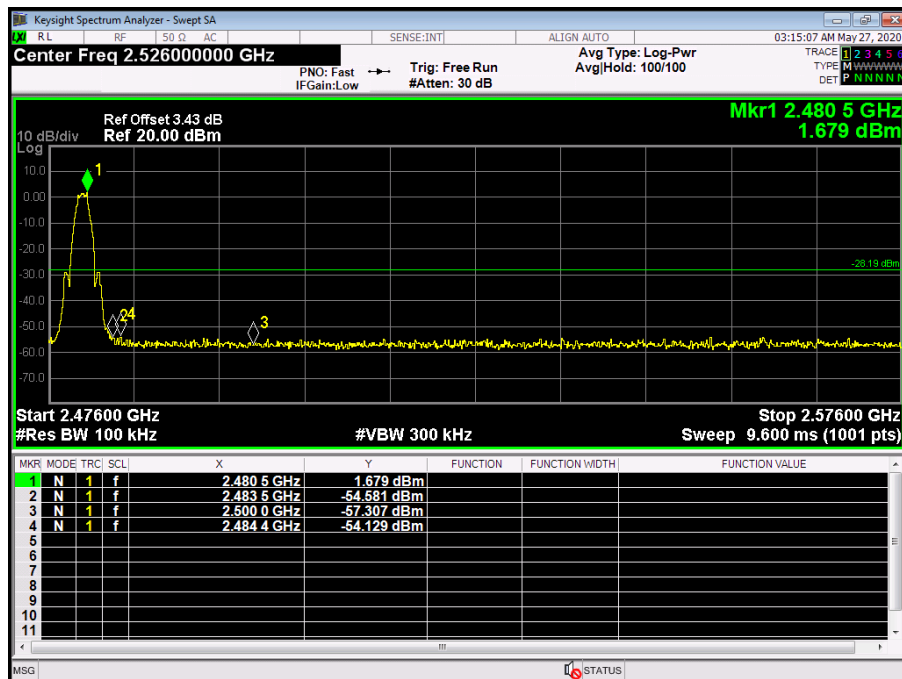
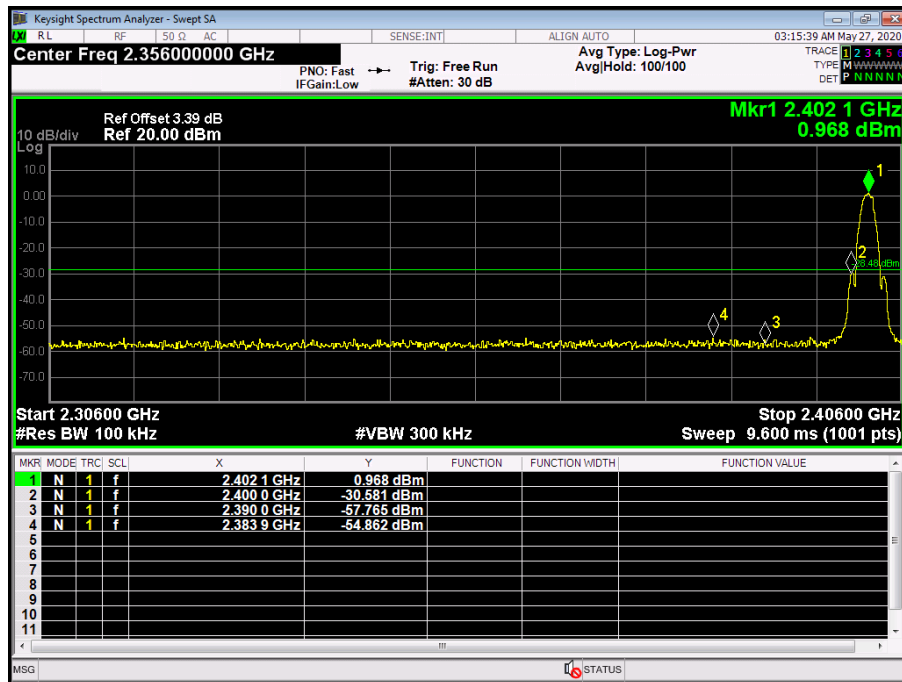
Start 2.47600 GHz
#Res BW 100 kHz

Stop 2.57600 GHz
Sweep 9.600 ms (1001 pts)

#VBW 300 kHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 0 GHz	3.104 dBm			
2	N	1	f	2.483 5 GHz	-55.068 dBm			
3	N	1	f	2.500 0 GHz	-58.290 dBm			
4	N	1	f	2.494 8 GHz	-54.416 dBm			

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	BLE Mode TX 2402MHz / BLE Mode TX 2480MHz(2Mbps)		
Remark:	The EUT is programed in continuously transmitting mode		

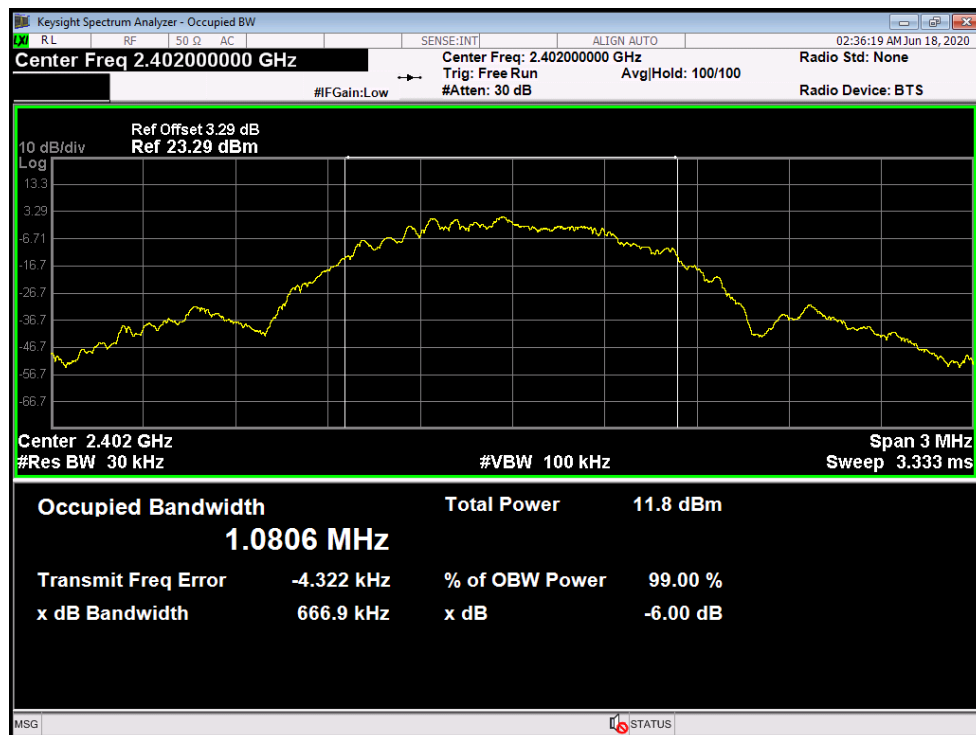


Attachment D-- Bandwidth Test Data

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	BLE TX Mode(1 Mbps)		
Channel frequency (MHz)	6dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (kHz)
2402	666.9	1080.6	>=500
2442	670.4	1073.6	
2480	667.2	1070.1	

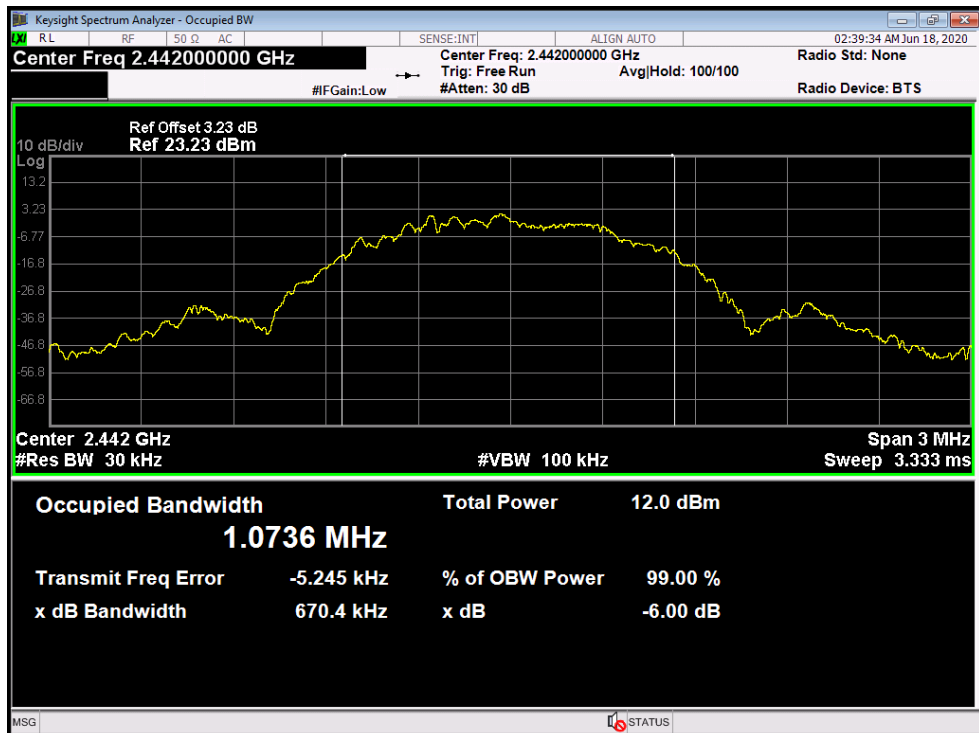
BLE Mode

2402 MHz



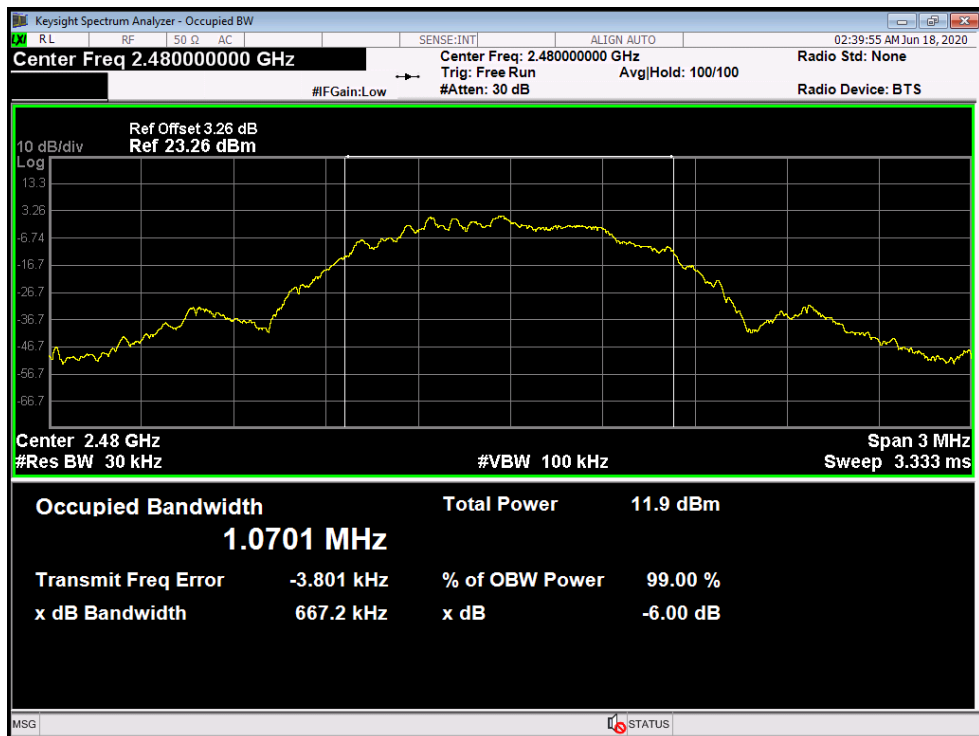
BLE Mode

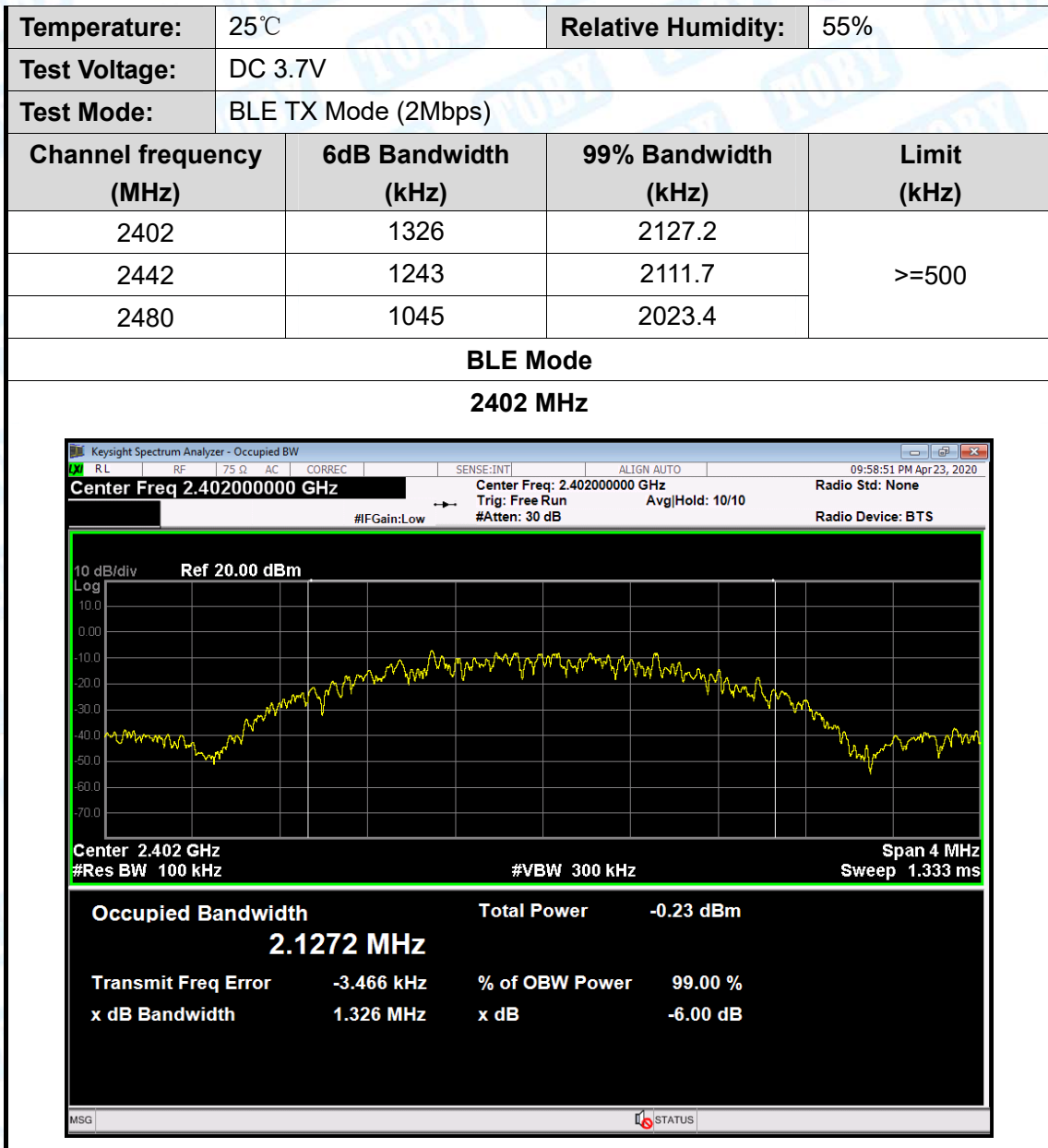
2442 MHz



BLE Mode

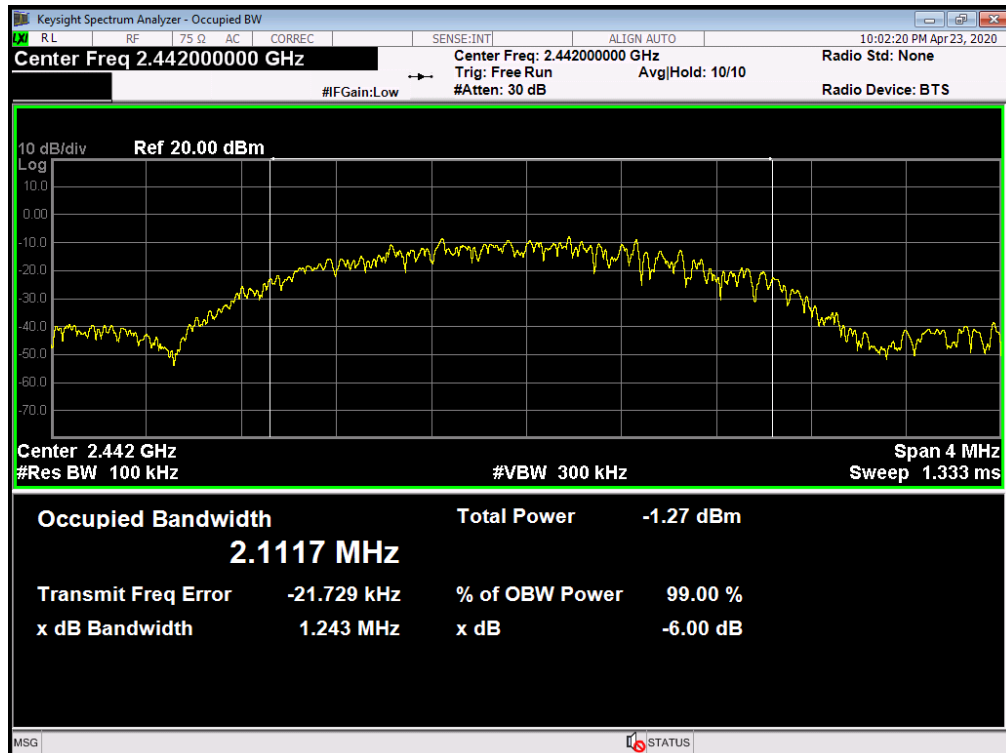
2480 MHz





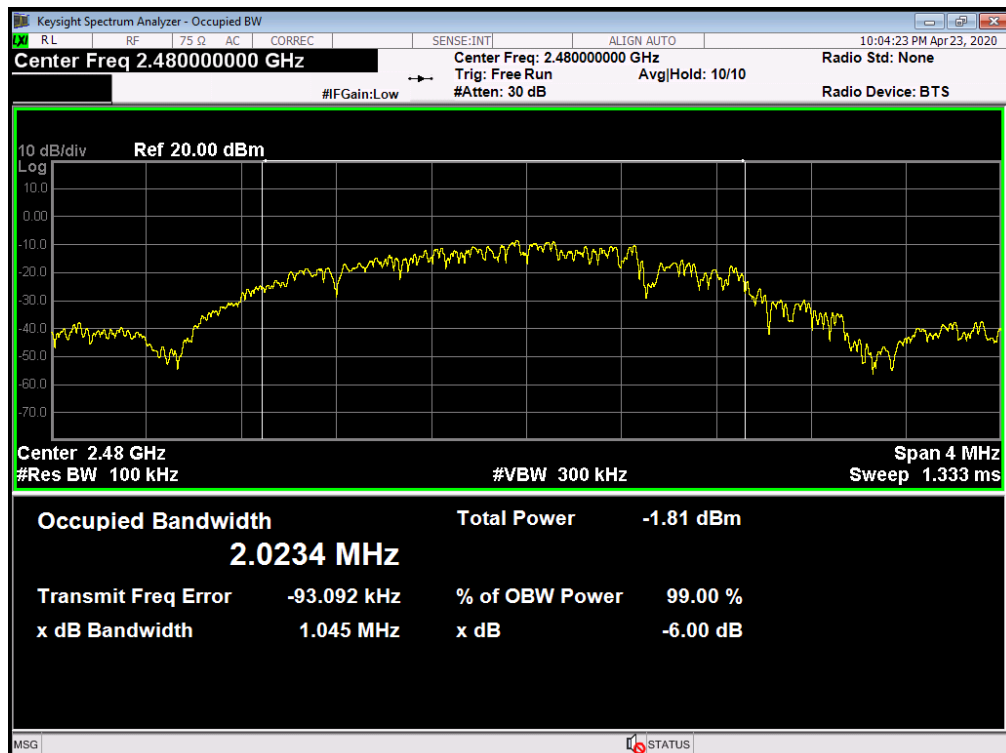
BLE Mode

2442 MHz



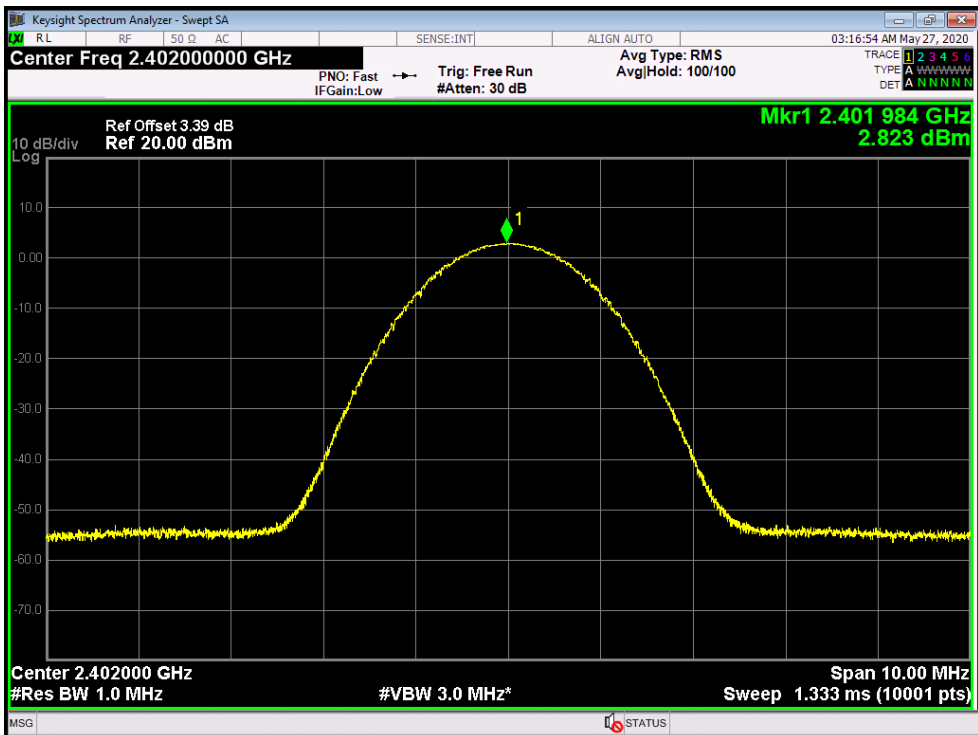
BLE Mode

2480 MHz



Attachment E-- Peak Output Power Test Data

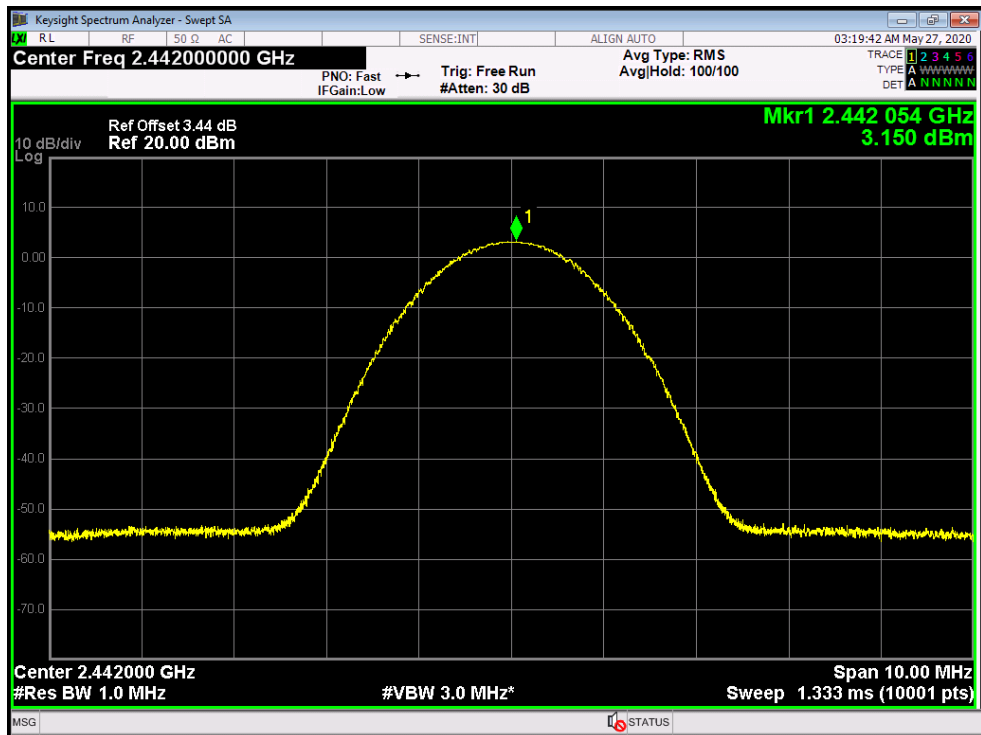
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	BLE TX Mode (1Mbps)		
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)	
2402	2.823	30	
2442	3.150		
2480	3.206		
BLE Mode			
2402 MHz			



The screenshot shows a Keysight Spectrum Analyzer interface. The main display is a plot of power spectral density (PSD) in dBm/Hz versus frequency in GHz. A single, sharp peak is visible at approximately 2.402 GHz, reaching a power level of about -10 dBm/Hz. The peak is labeled with a marker '1' and its frequency and power: 'Mkr1 2.401984 GHz 2.823 dBm'. The plot has a grid with a vertical span of 10.00 MHz and a horizontal resolution bandwidth (Res BW) of 3.0 MHz. The center frequency is set to 2.402000 GHz. The y-axis is labeled '10 dB/div Log' and ranges from -70.0 to 10.0. The x-axis is labeled 'Center Freq 2.402000000 GHz'. The plot is titled 'Center Freq 2.402000000 GHz' and '2402 MHz'. The plot shows a peak at 2.401984 GHz with a power of 2.823 dBm. The plot also shows the following settings: Center Freq 2.402000 GHz, Res BW 3.0 MHz, Span 10.00 MHz, Sweep 1.333 ms (10001 pts), #VBW 3.0 MHz*, #Res BW 1.0 MHz, Ref Offset 3.39 dB, Ref 20.00 dBm, PNO: Fast, IF Gain: Low, Trig: Free Run, #Atten: 30 dB, Avg Type: RMS, Avg/Hold: 100/100, SENSE: INT, ALIGN: AUTO, DATE: 03:16:54 AM May 27, 2020, TYPE: A, DET: A, NNNNN.

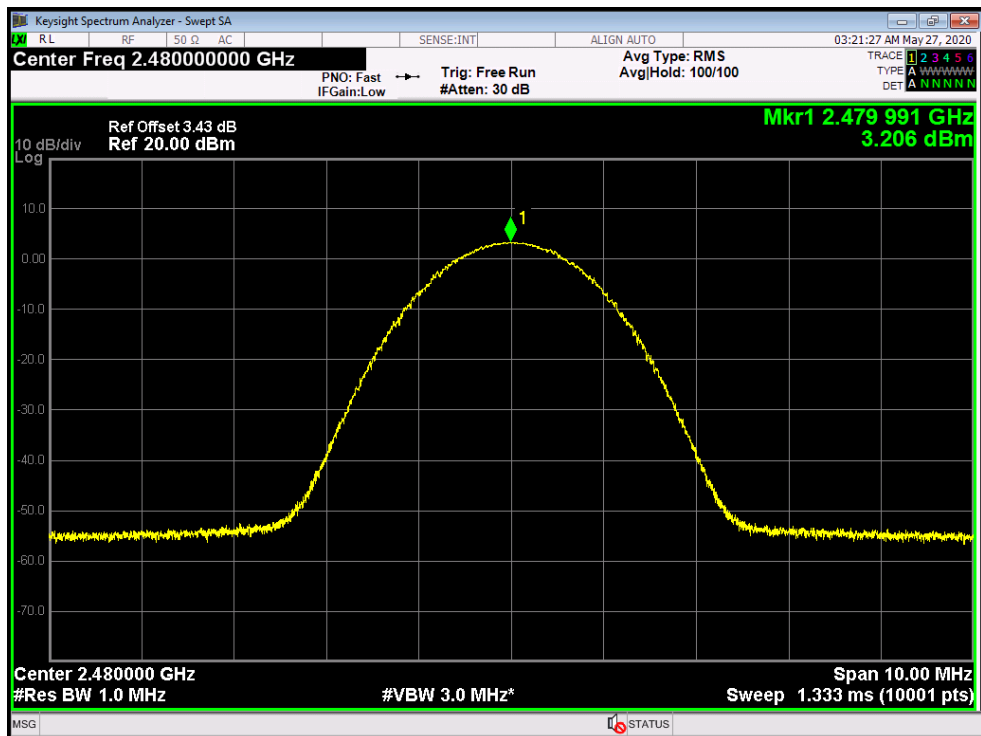
BLE Mode

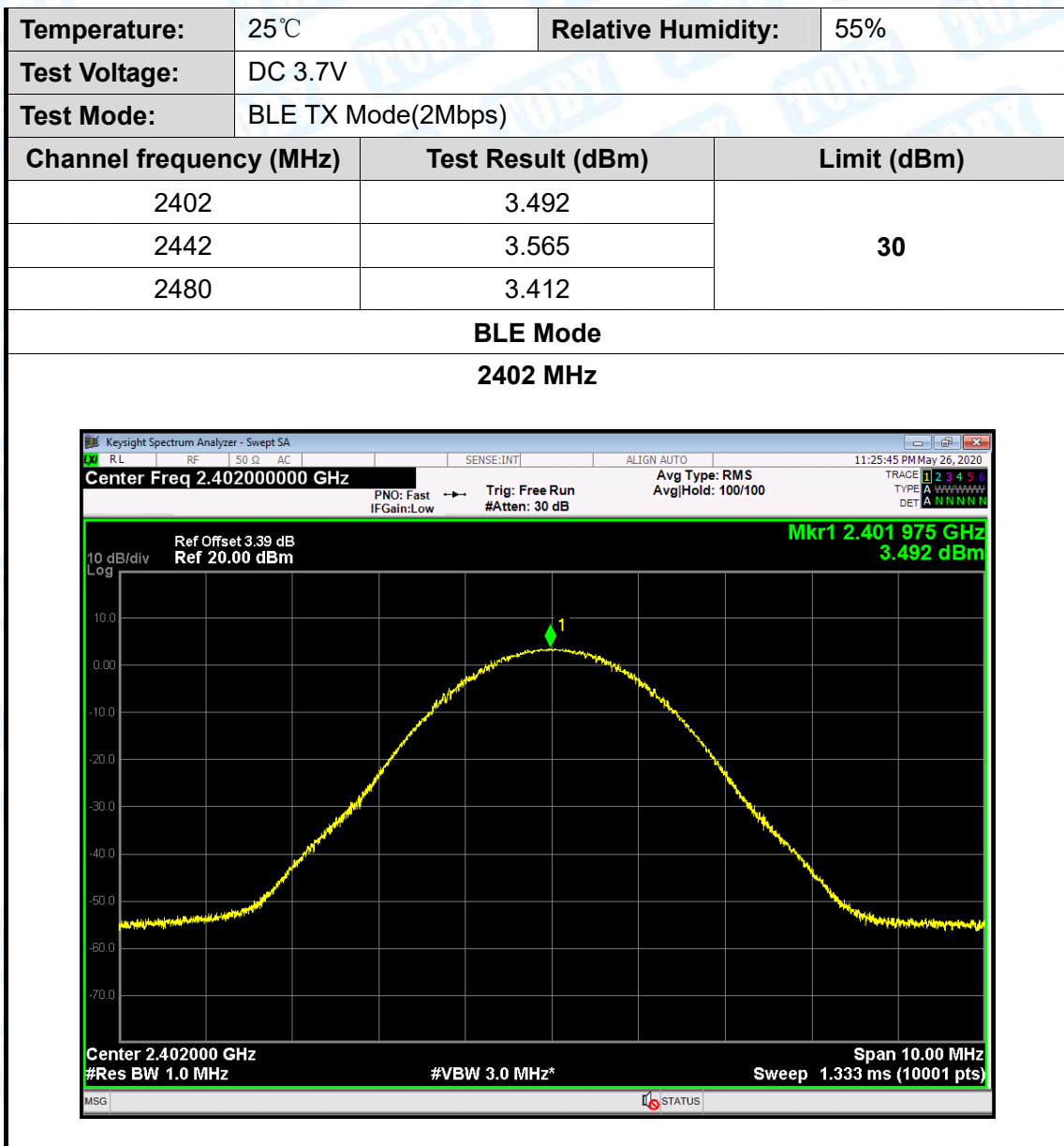
2442 MHz



BLE Mode

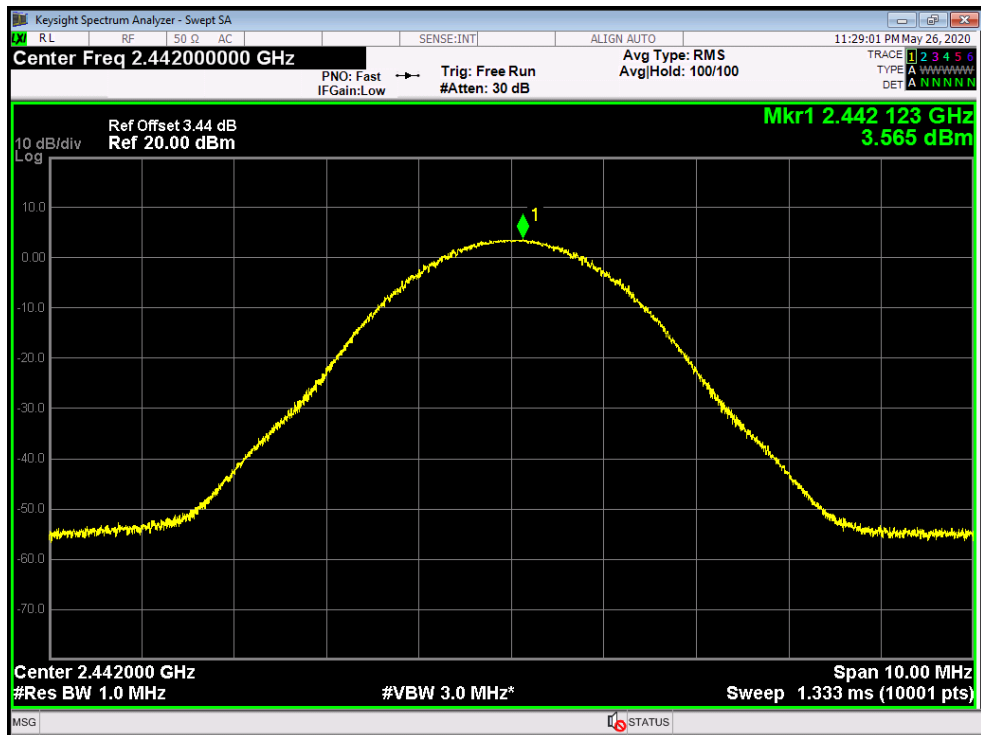
2480 MHz





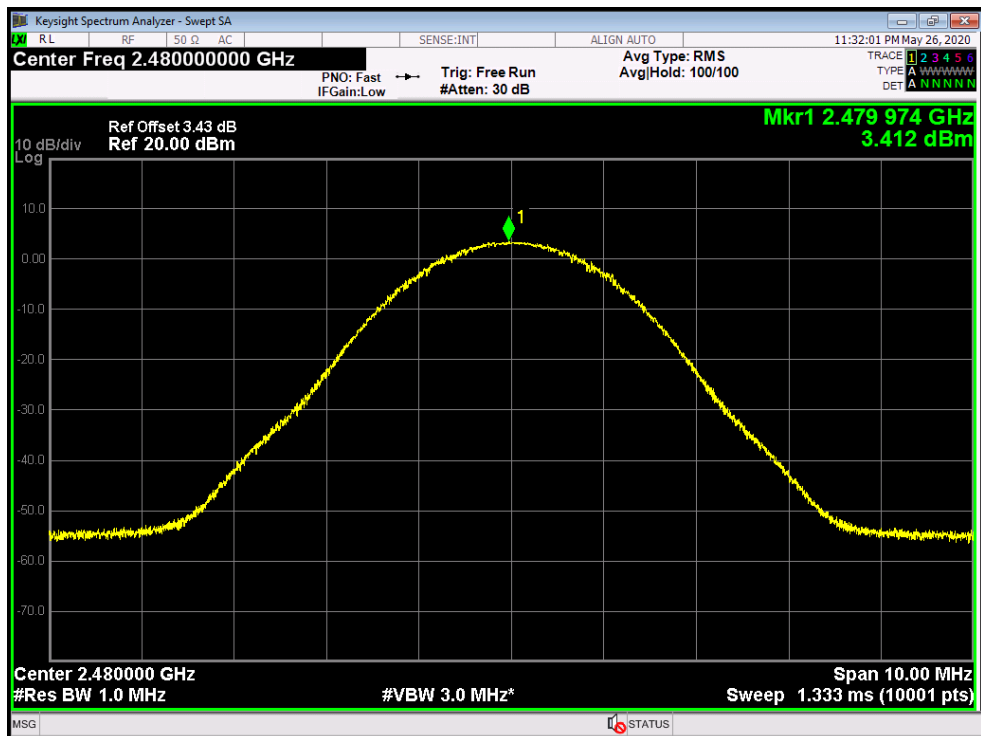
BLE Mode

2442 MHz



BLE Mode

2480 MHz

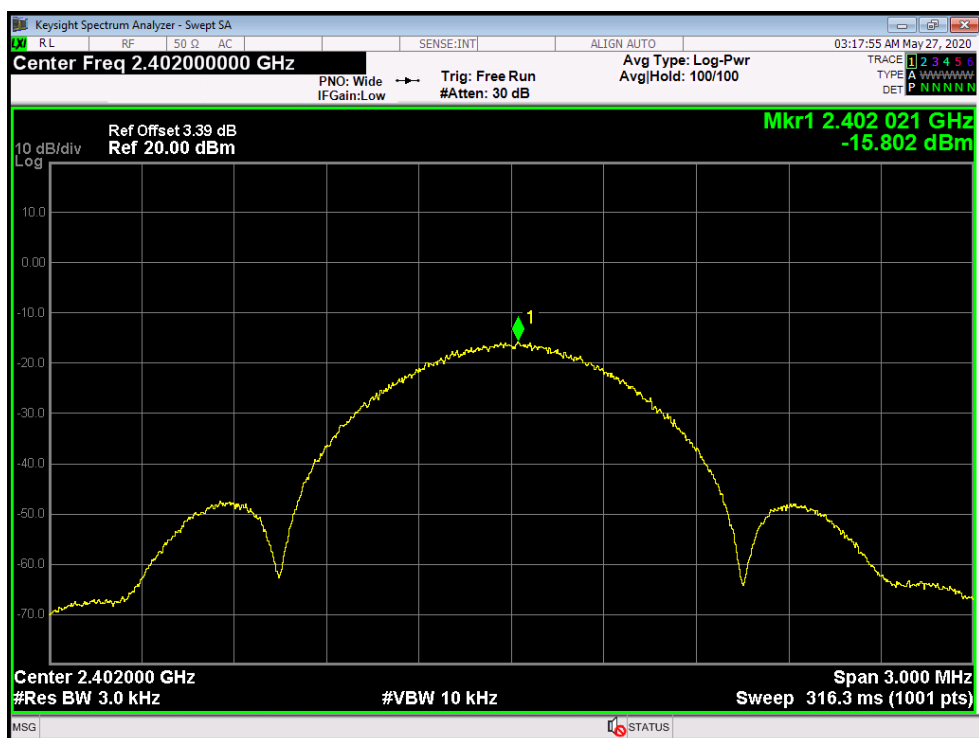


Attachment F-- Power Spectral Density Test Data

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	BLE TX Mode(1Mbps)		
Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402	-15.802	8	PASS
2442	-15.545		
2480	-15.724		

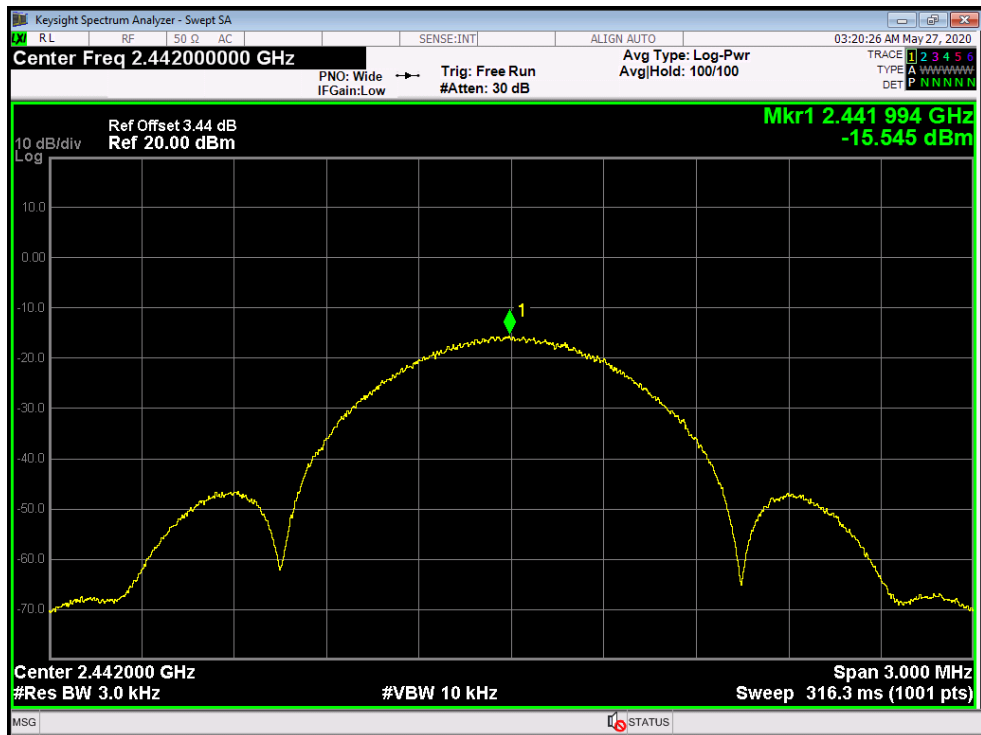
BLE Mode

2402 MHz



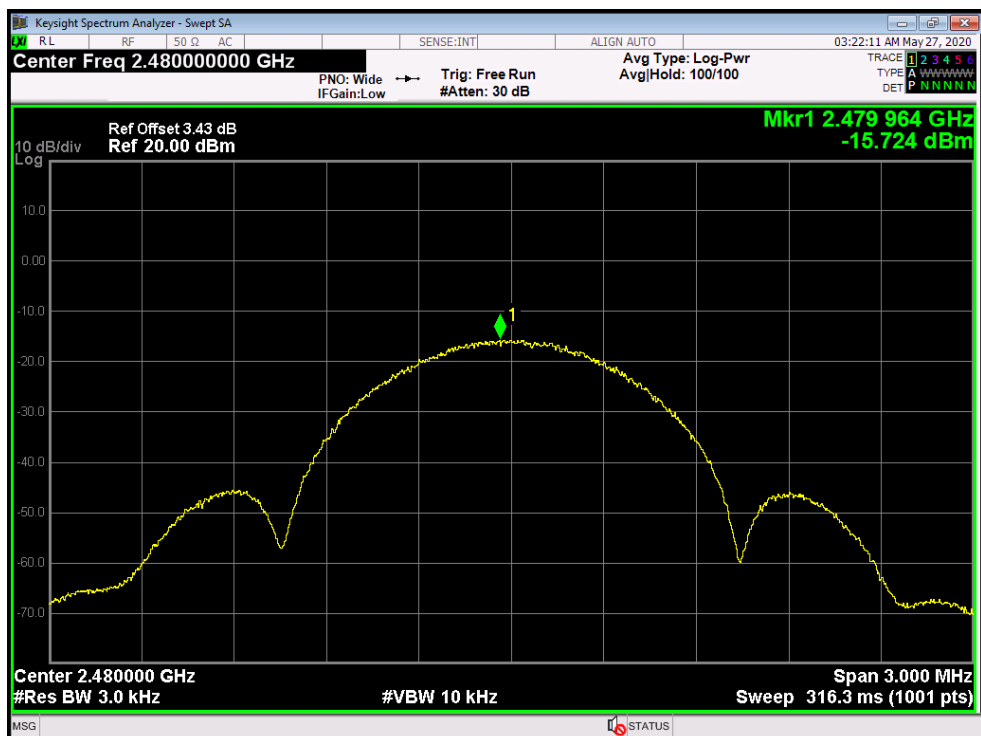
BLE Mode

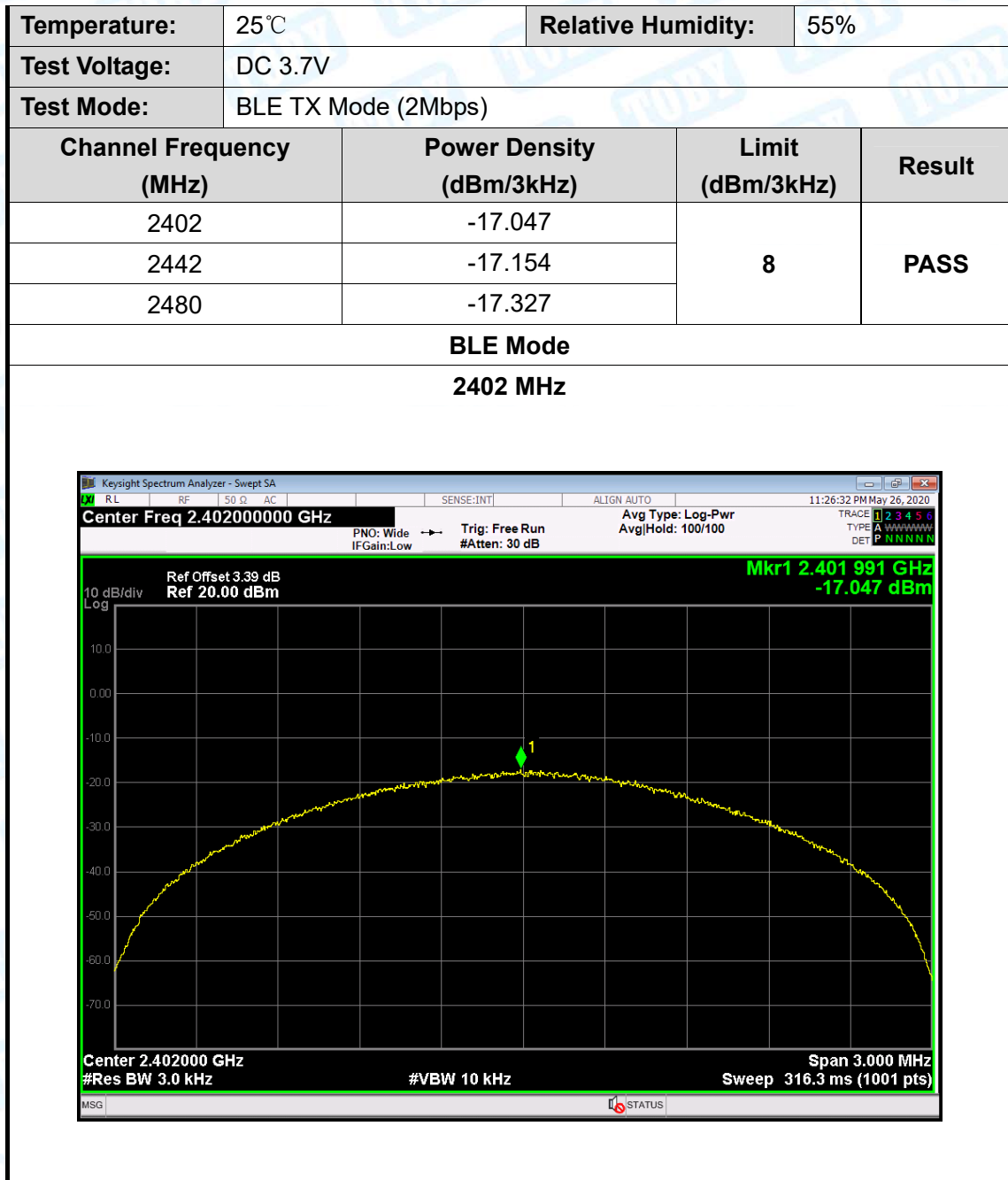
2442 MHz



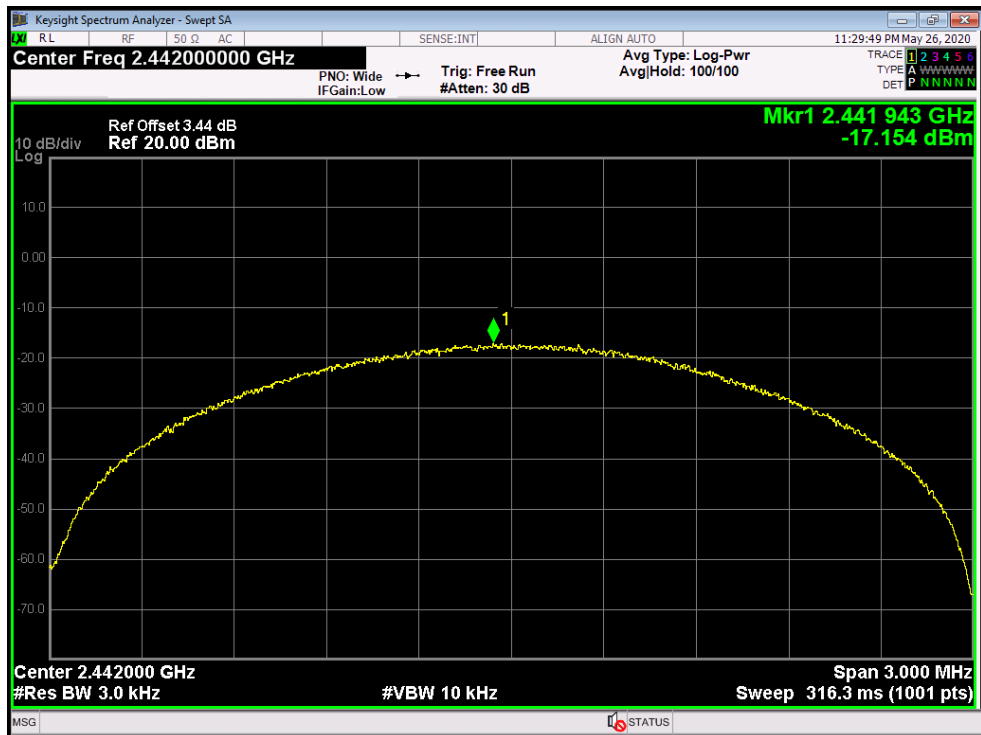
BLE Mode

2480 MHz

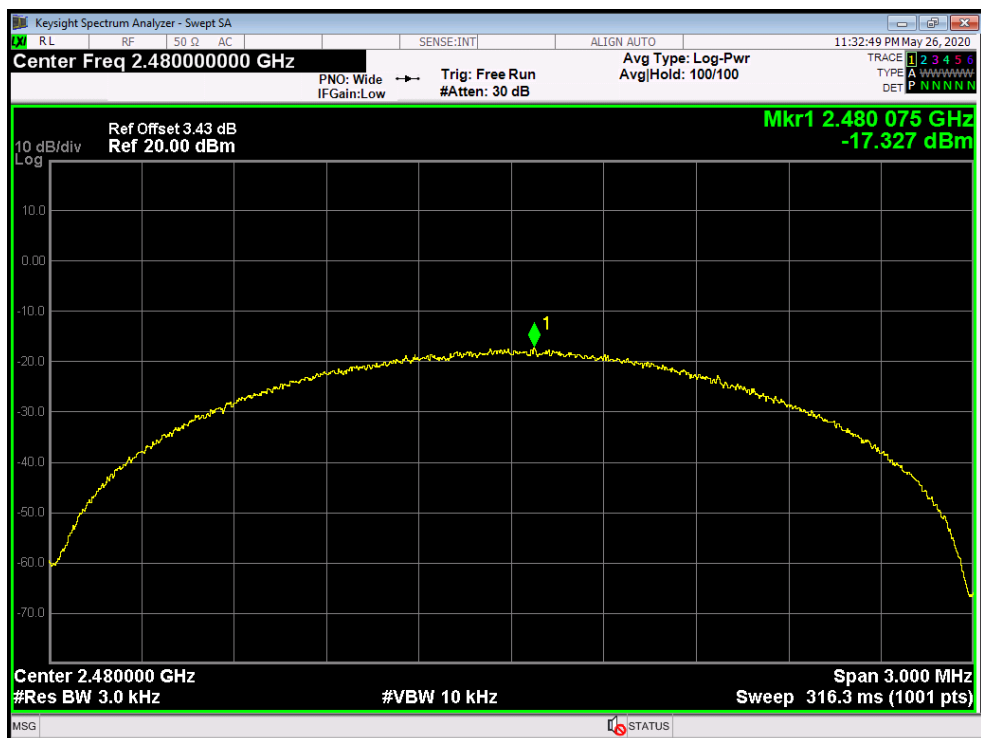




BLE Mode
2442 MHz



BLE Mode
2480 MHz



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