


FCC Radio Test Report

FCC ID: 2ANNW-AN-H311A

Original Grant

Report No. : TB-FCC158228
Applicant : Shenzhen Annidigital Technology Co., Ltd
Equipment Under Test (EUT)
EUT Name : Video Doorbell
Model No. : AN-H311A
Series Model No. : Please see the page 5
Brand Name :  anni
Receipt Date : 2018-02-01
Test Date : 2018-02-02 to 2018-03-06
Issue Date : 2018-03-07
Standards : FCC Part 15, Subpart C (15.247:2017)
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer : Terry, Sa

**Approved &
Authorized** :





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

Contents

CONTENTS	2
1. GENERAL INFORMATION ABOUT EUT	4
1.1 Client Information.....	5
1.2 General Description of EUT (Equipment Under Test)	5
1.3 Block Diagram Showing the Configuration of System Tested.....	6
1.4 Description of Support Units	6
1.5 Description of Test Mode.....	7
1.6 Description of Test Software Setting	8
1.7 Measurement Uncertainty	8
1.8 Test Facility.....	9
2. TEST SUMMARY	10
3. TEST EQUIPMENT	11
4. CONDUCTED EMISSION TEST	12
4.1 Test Standard and Limit.....	12
4.2 Test Setup.....	12
4.3 Test Procedure.....	12
4.4 EUT Operating Mode	13
4.5 Test Data.....	13
5. RADIATED EMISSION TEST	14
5.1 Test Standard and Limit.....	14
5.2 Test Setup.....	15
5.3 Test Procedure.....	16
5.4 EUT Operating Condition	16
5.5 Test Data.....	17
6. RESTRICTED BANDS REQUIREMENT	18
6.1 Test Standard and Limit.....	18
6.2 Test Setup.....	18
6.3 Test Procedure.....	18
6.4 EUT Operating Condition	19
6.5 Test Data.....	19
7. BANDWIDTH TEST	20
7.1 Test Standard and Limit.....	20
7.2 Test Setup.....	20
7.3 Test Procedure.....	20
7.4 EUT Operating Condition	20
7.5 Test Data.....	20
8. PEAK OUTPUT POWER TEST	21
8.1 Test Standard and Limit.....	21
8.2 Test Setup.....	21

8.3 Test Procedure.....	21
8.4 EUT Operating Condition	21
8.5 Test Data.....	21
9. POWER SPECTRAL DENSITY TEST	22
9.1 Test Standard and Limit.....	22
9.2 Test Setup.....	22
9.3 Test Procedure.....	22
9.4 EUT Operating Condition	22
9.5 Test Data.....	22
10. ANTENNA REQUIREMENT.....	23
10.1 Standard Requirement.....	23
10.2 Antenna Connected Construction.....	23
ATTACHMENT A-- CONDUCTED EMISSION TEST DATA	24
ATTACHMENT B-- RADIATED EMISSION TEST DATA	28
ATTACHMENT C-- RESTRICTED BANDS REQUIREMENT TEST DATA.....	54
ATTACHMENT D-- BANDWIDTH TEST DATA.....	74
ATTACHMENT E-- PEAK OUTPUT POWER TEST DATA.....	82
ATTACHMENT F-- POWER SPECTRAL DENSITY TEST DATA.....	85

Revision History

Report No.	Version	Description	Issued Date
TB-FCC158228	Rev.01	Initial issue of report	2017-03-06

1. General Information about EUT

1.1 Client Information

Applicant : Shenzhen Annidigital Technology Co., Ltd
Address : 3rd Floor, Hasee Bldg, NO.1, Banlan Road, Bantian, Buji Town, Longgang, Shenzhen, China
Manufacturer : Shenzhen Annidigital Technology Co., Ltd
Address : 3rd Floor, Hasee Bldg, NO.1, Banlan Road, Bantian, Buji Town, Longgang, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Video Doorbell
Models No.	:	AN-H311A, AN-H311C, AN-HXXXX, AN-HXXXXX, AN-XXXXX, AN-XXXXXX("X" dedicated to A to Z and/or 0 to 999 up to 8 digits)
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance shape and color.
Product Description	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
	Number of Channel:	802.11b/g/n(HT20):11 channels <i>see note(3)</i> 802.11n(HT40):7 channels <i>see note(3)</i>
	RF Output Power:	802.11b: 9.18dBm 802.11g: 8.64dBm 802.11n (HT20): 8.79dBm 802.11n (HT40): 8.79dBm
	Antenna Gain:	3dBi FPC Antenna
	Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
	Power Supply	:
Power Rating	:	AC/DC Adapter Model(MXM6-0502000U): Input: AC 120~240V 50-60Hz 0.3A Output: DC 5V/2A DC 3.7V by 6000mAh Li-ion battery
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note:

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v04.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:

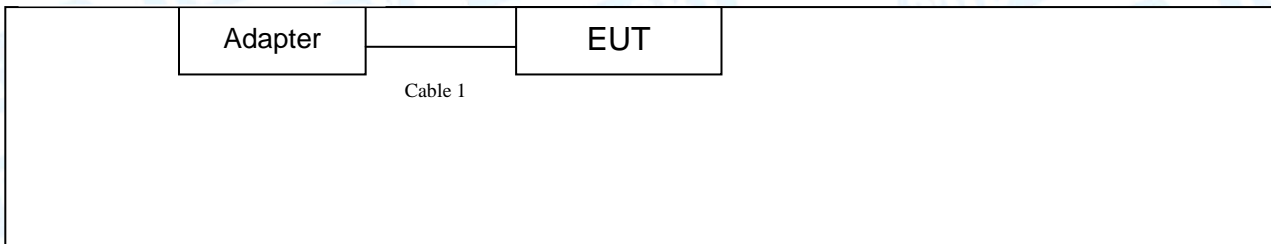
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

Note:CH 01~CH 11 for 802.11b/g/n(HT20), CH 03~CH 09 for 802.11n(HT40)

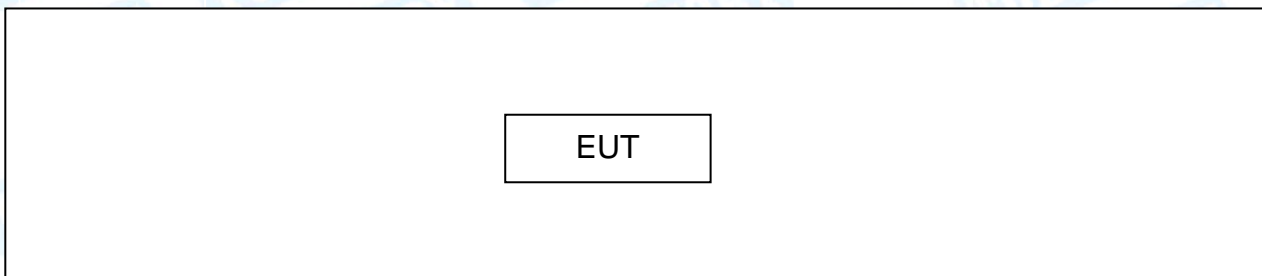
- (4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

USB Charging Mode



TX Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note

Cable 1	NO	NO	1.25M	
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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 with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	TX Mode N(HT40) Mode Channel 03/06/09

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:
 - 802.11b Mode: CCK (1 Mbps)
 - 802.11g Mode: OFDM (6 Mbps)
 - 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
 - 802.11n (HT40) Mode: MCS 0 (13 Mbps)
- (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 WLAN.

Test Software Version	SSCOM.exe		
	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded 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	± 3.42 dB
	150kHz to 30MHz	± 3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

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

A2LA Certificate No.: 4750.01

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

IC Registration No.: (11950A-1)

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

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Band Edge	PASS	N/A
15.247(d)& 15.209	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A

Note: “/” for no requirement for this test item.
N/A is an abbreviation for Not Applicable.

3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 20, 2017	Jul. 19, 2018
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 20, 2017	Jul. 19, 2018
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 20, 2017	Jul. 19, 2018
LISN	Rohde & Schwarz	ENV216	101131	Jul. 20, 2017	Jul. 19, 2018
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 20, 2017	Jul. 19, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.25, 2017	Mar. 24, 2018
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.24, 2017	Mar. 23, 2018
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.24, 2017	Mar. 23, 2018
Loop Antenna	Laplace instrument	RF300	0701	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.25, 2017	Mar. 24, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 20, 2017	Jul. 19, 2018
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Oct. 26, 2017	Oct. 25, 2018
Vector Signal Generator	Agilent	N5182A	MY50141294	Oct. 26, 2017	Oct. 25, 2018
Analog Signal Generator	Agilent	N5181A	MY50141953	Oct. 26, 2017	Oct. 25, 2018
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Oct. 26, 2017	Oct. 25, 2018
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Oct. 26, 2017	Oct. 25, 2018

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15.207

4.1.2 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

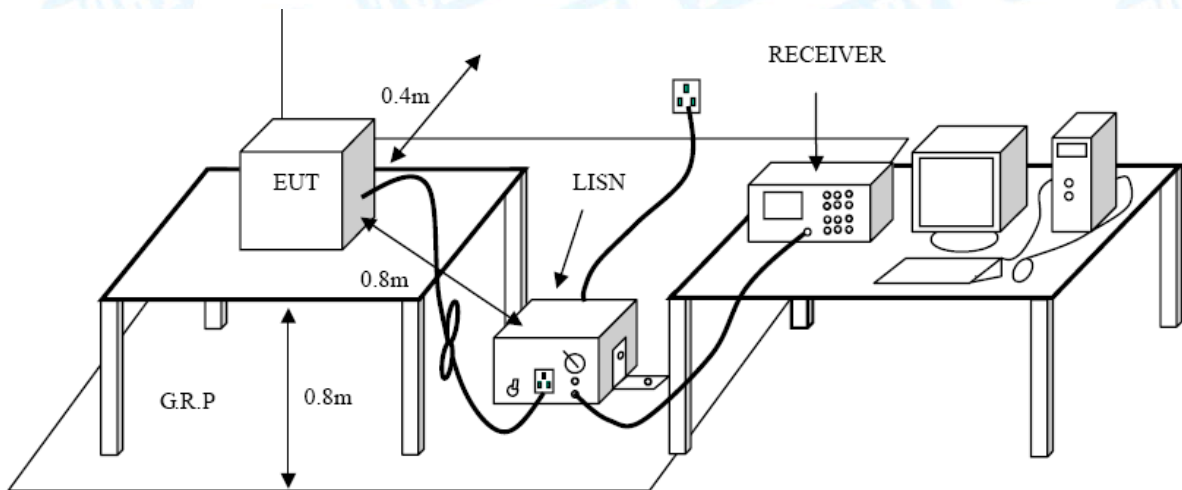
Notes:

(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.

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 9kHz, 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 Data

Please refer to the Attachment A.

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9 kHz~1000 MHz)

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

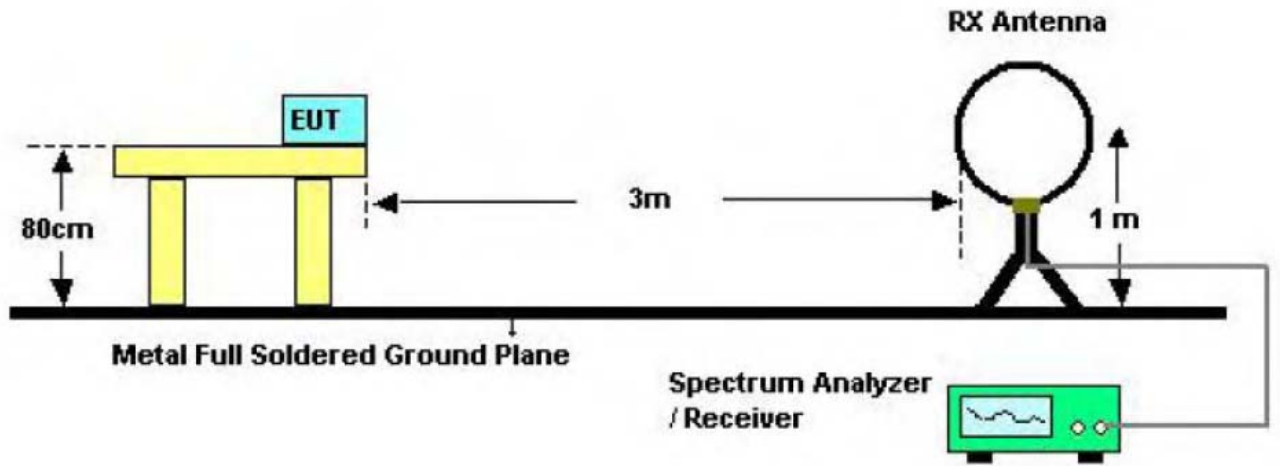
Radiated Emission Limit (Above 1000MHz)

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

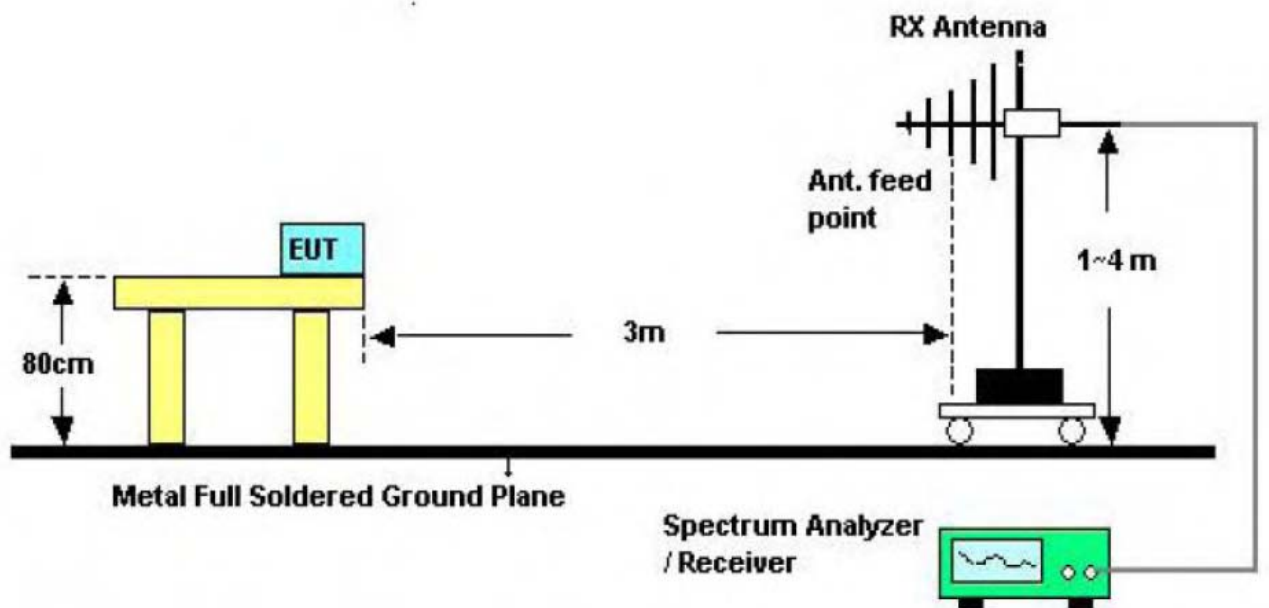
Note:

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

5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) 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.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) 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.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) 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.
- (7) For the actual test configuration, please see the test setup photo.

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)

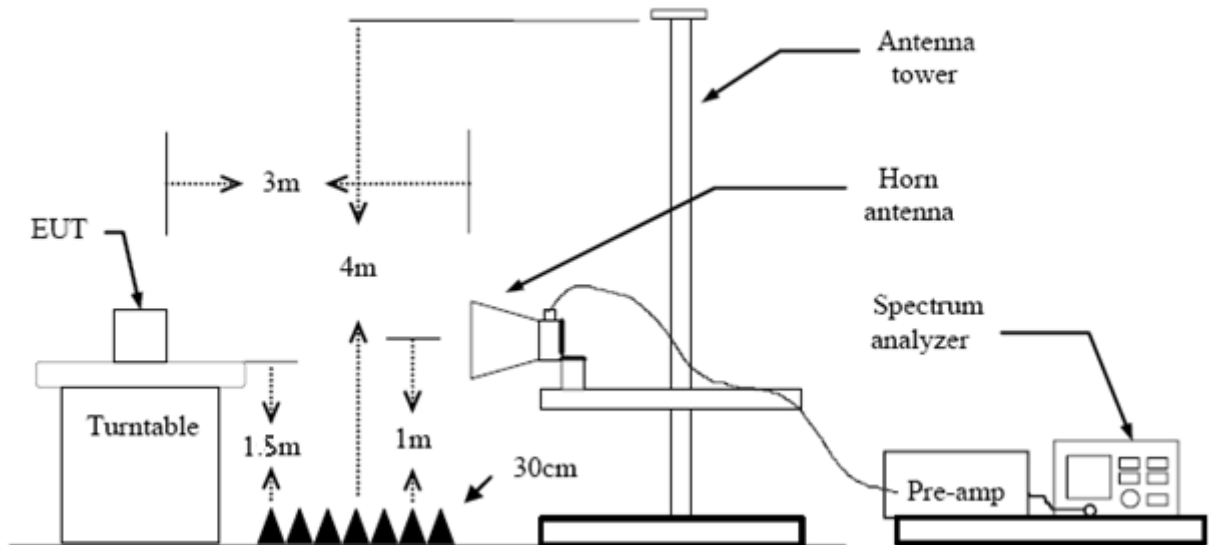
FCC Part 15.209

FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
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

Please refer to the Attachment C.

7. Bandwidth Test

7.1 Test Standard and Limit

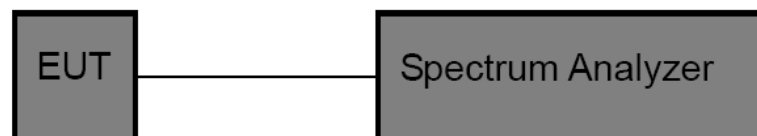
7.1.1 Test Standard

FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
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, Digital photo framesdle 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

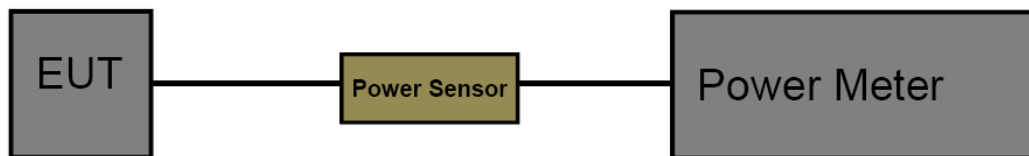
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
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 measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v04. The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

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

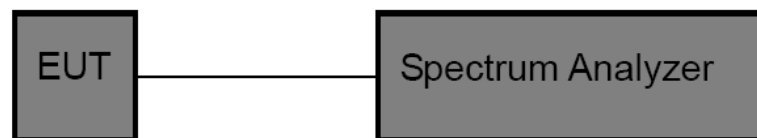
9.1.1 Test Standard

FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

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

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

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle 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 directional gains of the antenna used for transmitting is 3dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

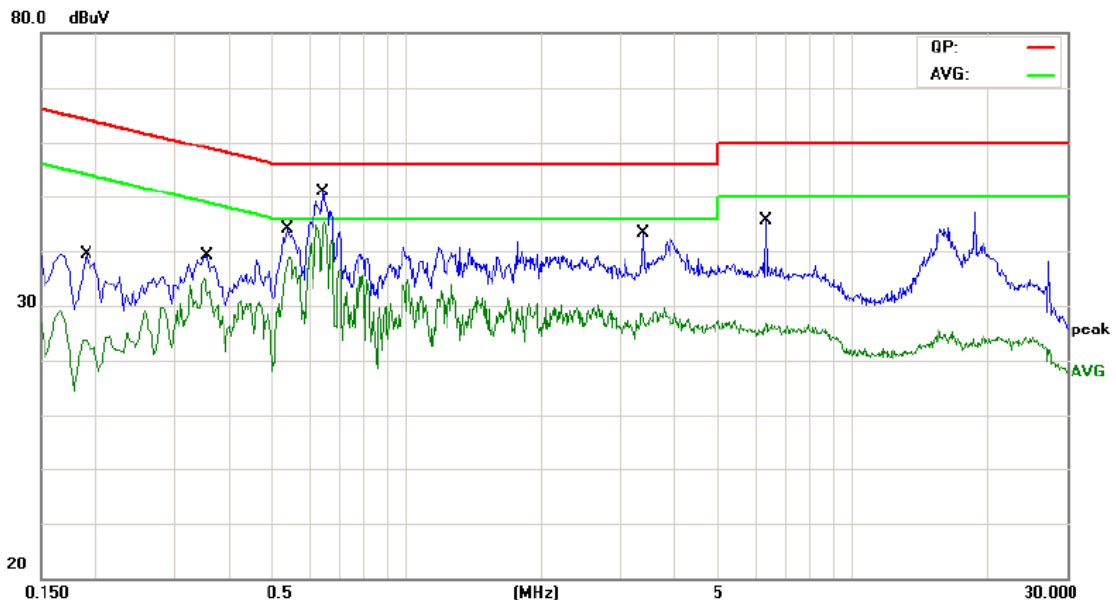
Result

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

Antenna Type
<input type="checkbox"/> Permanent attached antenna
<input checked="" type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna

Attachment A-- Conducted Emission Test Data

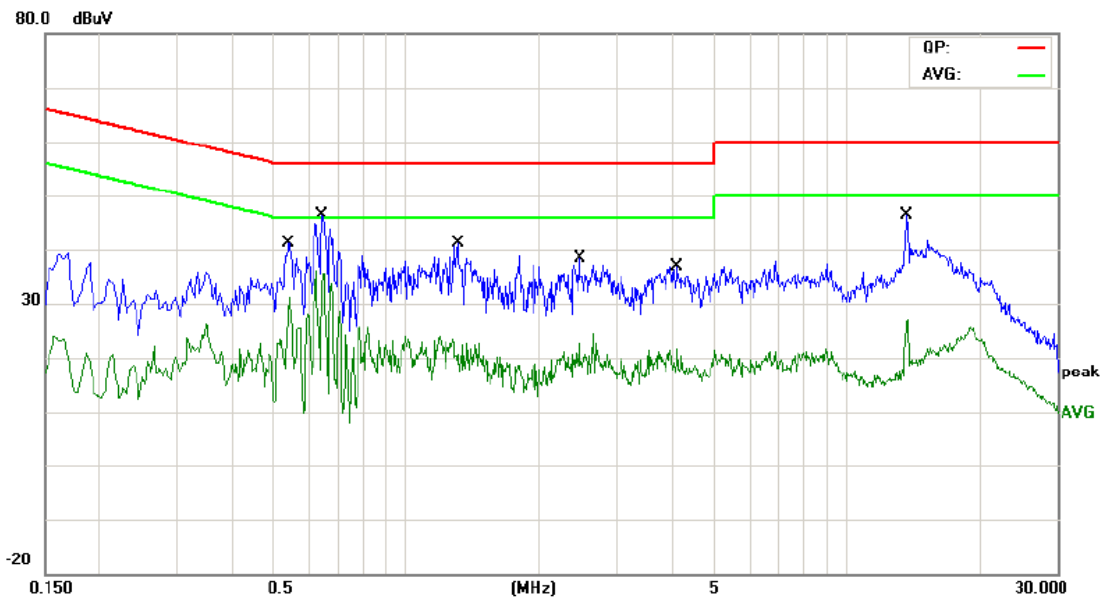
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1900	18.69	9.58	28.27	64.03	-35.76	QP
2		0.1900	9.69	9.58	19.27	54.03	-34.76	AVG
3		0.3540	28.31	9.60	37.91	58.87	-20.96	QP
4		0.3540	21.21	9.60	30.81	48.87	-18.06	AVG
5		0.5380	33.41	9.60	43.01	56.00	-12.99	QP
6		0.5380	27.64	9.60	37.24	46.00	-8.76	AVG
7		0.6460	38.79	9.61	48.40	56.00	-7.60	QP
8	*	0.6460	33.65	9.61	43.26	46.00	-2.74	AVG
9		3.3660	25.08	9.66	34.74	56.00	-21.26	QP
10		3.3660	16.01	9.66	25.67	46.00	-20.33	AVG
11		6.3659	22.39	9.82	32.21	60.00	-27.79	QP
12		6.3659	13.81	9.82	23.63	50.00	-26.37	AVG

Emission Level= Read Level+ Correct Factor

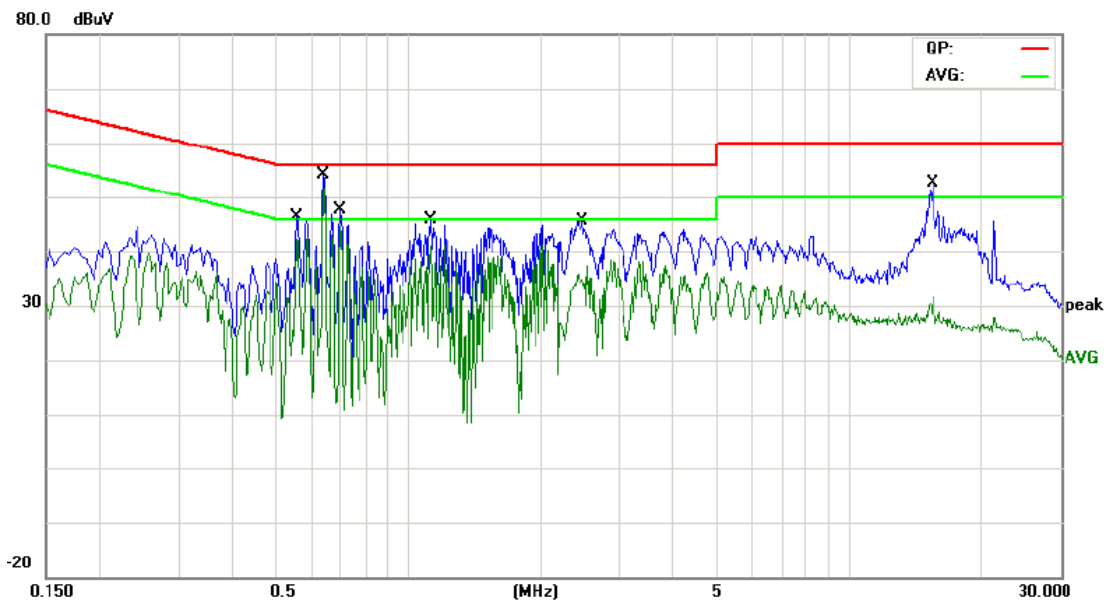
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.5380	29.01	9.58	38.59	56.00	-17.41	QP
2		0.5380	18.95	9.58	28.53	46.00	-17.47	AVG
3	*	0.6419	36.00	9.59	45.59	56.00	-10.41	QP
4		0.6419	22.75	9.59	32.34	46.00	-13.66	AVG
5		1.3060	22.26	9.60	31.86	56.00	-24.14	QP
6		1.3060	5.90	9.60	15.50	46.00	-30.50	AVG
7		2.4660	24.59	9.64	34.23	56.00	-21.77	QP
8		2.4660	11.50	9.64	21.14	46.00	-24.86	AVG
9		4.1260	23.51	9.74	33.25	56.00	-22.75	QP
10		4.1260	8.19	9.74	17.93	46.00	-28.07	AVG
11		13.6460	18.95	10.51	29.46	60.00	-30.54	QP
12		13.6460	3.85	10.51	14.36	50.00	-35.64	AVG

Emission Level= Read Level+ Correct Factor

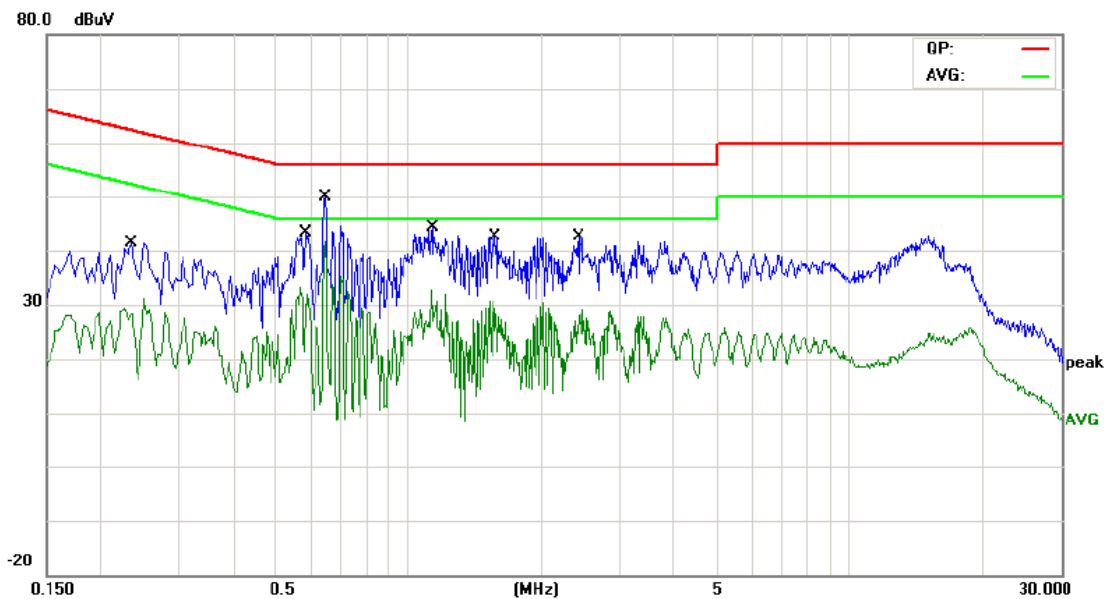
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Terminal:	Line		
Test Mode:	Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.5580	32.69	9.60	42.29	56.00	-13.71	QP
2		0.5580	28.83	9.60	38.43	46.00	-7.57	AVG
3		0.6419	40.11	9.61	49.72	56.00	-6.28	QP
4	*	0.6419	34.22	9.61	43.83	46.00	-2.17	AVG
5		0.6980	35.49	9.61	45.10	56.00	-10.90	QP
6		0.6980	32.87	9.61	42.48	46.00	-3.52	AVG
7		1.1180	31.45	9.60	41.05	56.00	-14.95	QP
8		1.1180	26.43	9.60	36.03	46.00	-9.97	AVG
9		2.4860	28.59	9.63	38.22	56.00	-17.78	QP
10		2.4860	22.44	9.63	32.07	46.00	-13.93	AVG
11		15.4540	29.87	10.47	40.34	60.00	-19.66	QP
12		15.4540	16.36	10.47	26.83	50.00	-23.17	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 230V/50Hz		
Terminal:	Neutral		
Test Mode:	Charging with TX B Mode		
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		0.2340	25.53	9.62	35.15	62.30	-27.15	QP
2		0.2340	14.38	9.62	24.00	52.30	-28.30	AVG
3		0.5820	26.76	9.58	36.34	56.00	-19.66	QP
4		0.5820	15.70	9.58	25.28	46.00	-20.72	AVG
5		0.6460	37.98	9.59	47.57	56.00	-8.43	QP
6	*	0.6460	31.37	9.59	40.96	46.00	-5.04	AVG
7		1.1340	23.58	9.59	33.17	56.00	-22.83	QP
8		1.1340	10.20	9.59	19.79	46.00	-26.21	AVG
9		1.5660	28.68	9.60	38.28	56.00	-17.72	QP
10		1.5660	18.76	9.60	28.36	46.00	-17.64	AVG
11		2.4340	28.37	9.63	38.00	56.00	-18.00	QP
12		2.4340	17.90	9.63	27.53	46.00	-18.47	AVG

Emission Level= Read Level+ Correct Factor

Attachment B-- Radiated Emission Test Data

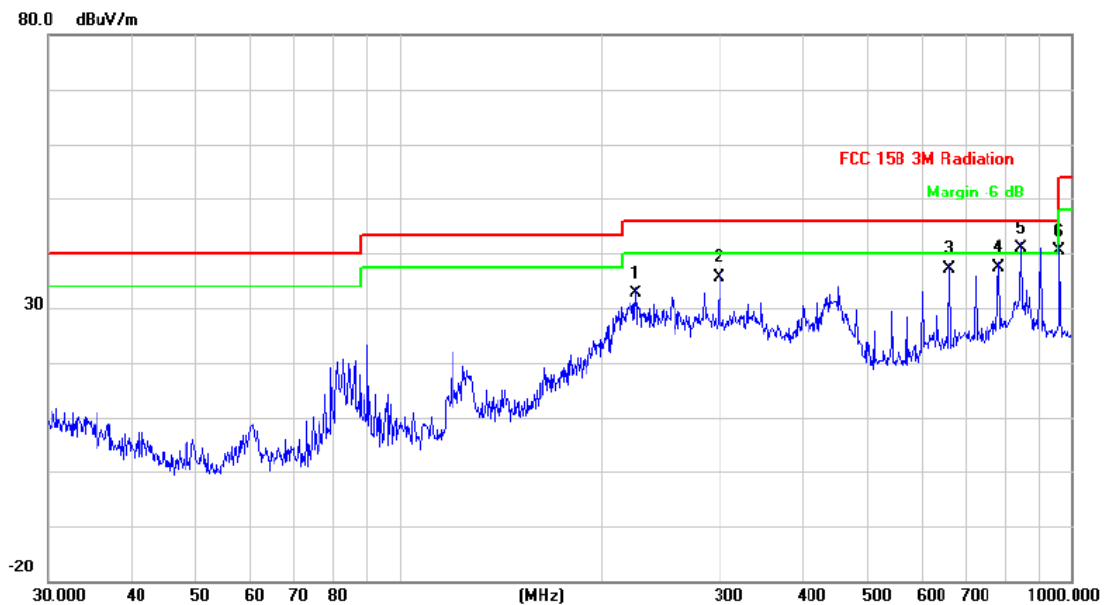
9KHz~30MHz

From 9KHz to 30MHz: 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 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

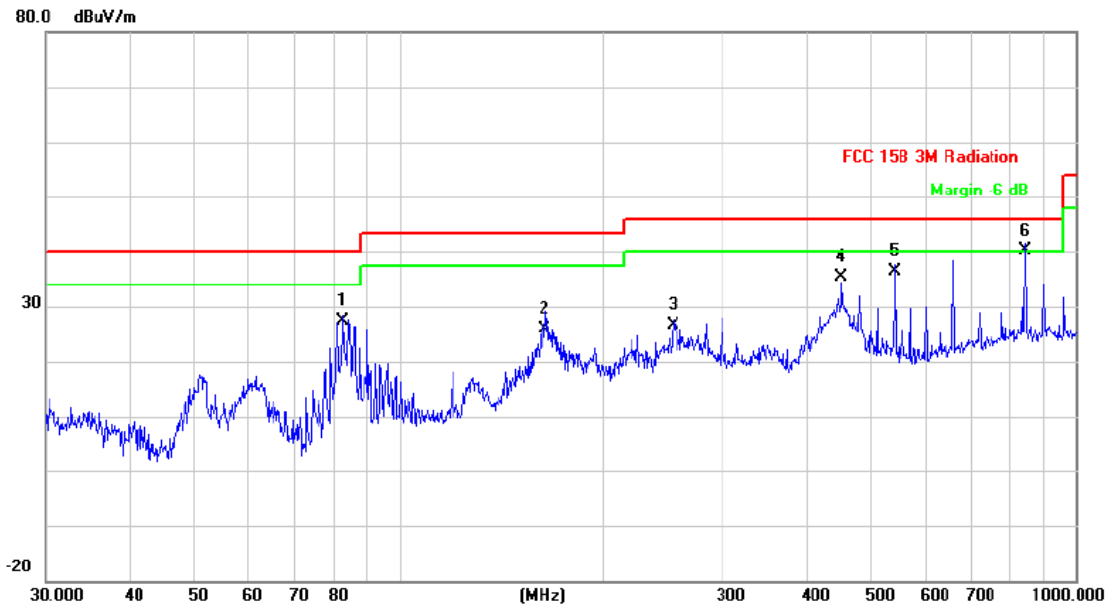


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		225.3080	50.86	-18.31	32.55	46.00	-13.45	QP
2		300.3672	51.64	-15.92	35.72	46.00	-10.28	QP
3		661.1505	44.34	-7.16	37.18	46.00	-8.82	QP
4		782.3453	42.88	-5.45	37.43	46.00	-8.57	QP
5	*	842.1296	46.20	-5.25	40.95	46.00	-5.05	QP
6		962.1623	43.66	-3.35	40.31	54.00	-13.69	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:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		



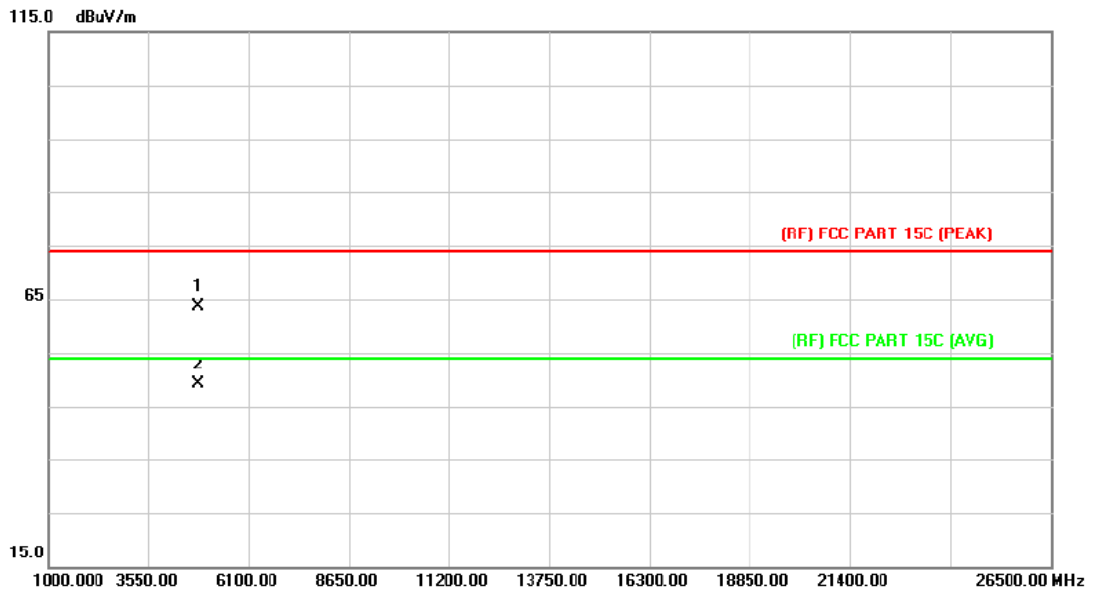
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		82.6482	49.92	-22.59	27.33	40.00	-12.67	QP
2		163.7550	45.84	-20.03	25.81	43.50	-17.69	QP
3		254.7284	43.71	-16.96	26.75	46.00	-19.25	QP
4		451.1350	46.76	-11.48	35.28	46.00	-10.72	QP
5		541.3725	45.68	-9.22	36.46	46.00	-9.54	QP
6	*	842.1296	45.50	-5.25	40.25	46.00	-5.75	QP

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

Emission Level= Read Level+ Correct Factor

Above 1GHz

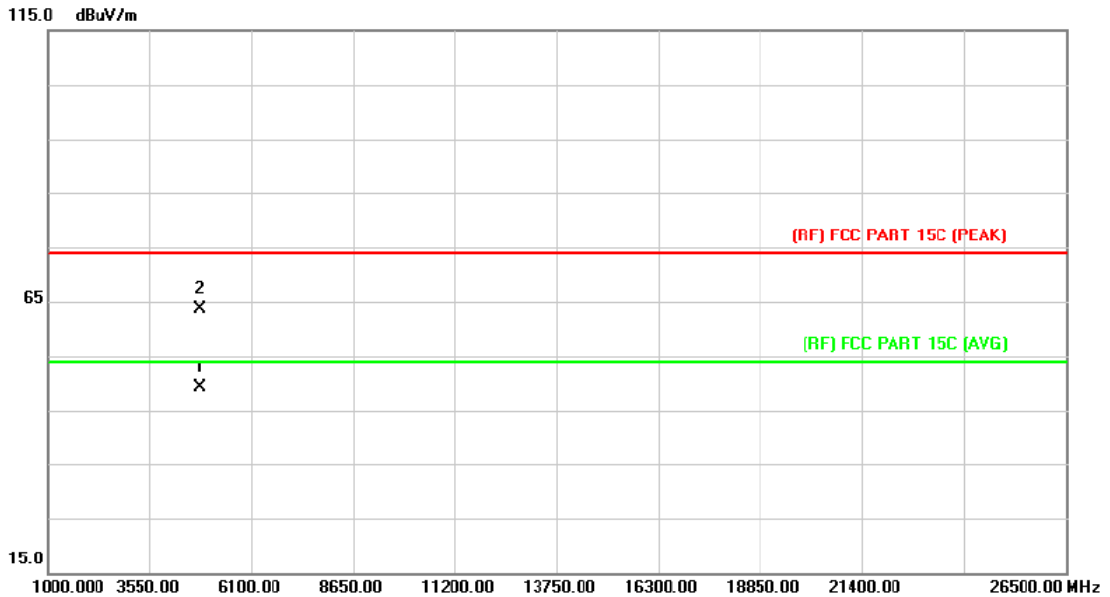
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.172	48.99	14.71	63.70	74.00	-10.30	peak
2	*	4823.763	34.34	14.71	49.05	54.00	-4.95	AVG

Emission Level= Read Level+ Correct Factor

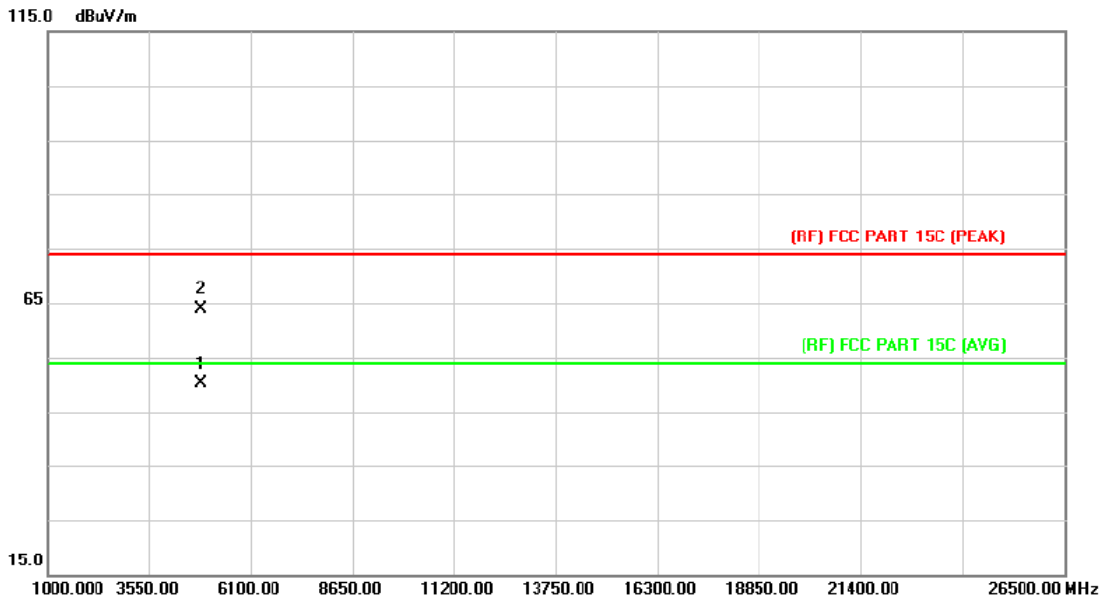
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4823.607	34.33	14.71	49.04	54.00	-4.96	AVG
2		4824.543	48.96	14.71	63.67	74.00	-10.33	peak

Emission Level= Read Level+ Correct Factor

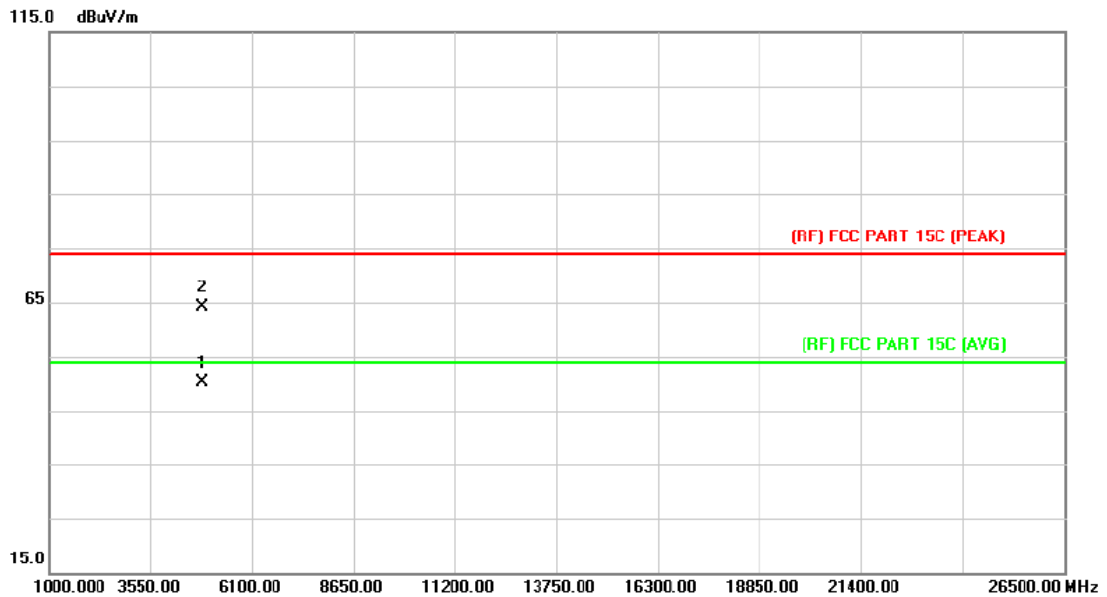
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4872.500	34.95	15.08	50.03	54.00	-3.97	AVG
2		4874.600	48.77	15.10	63.87	74.00	-10.13	peak

Emission Level= Read Level+ Correct Factor

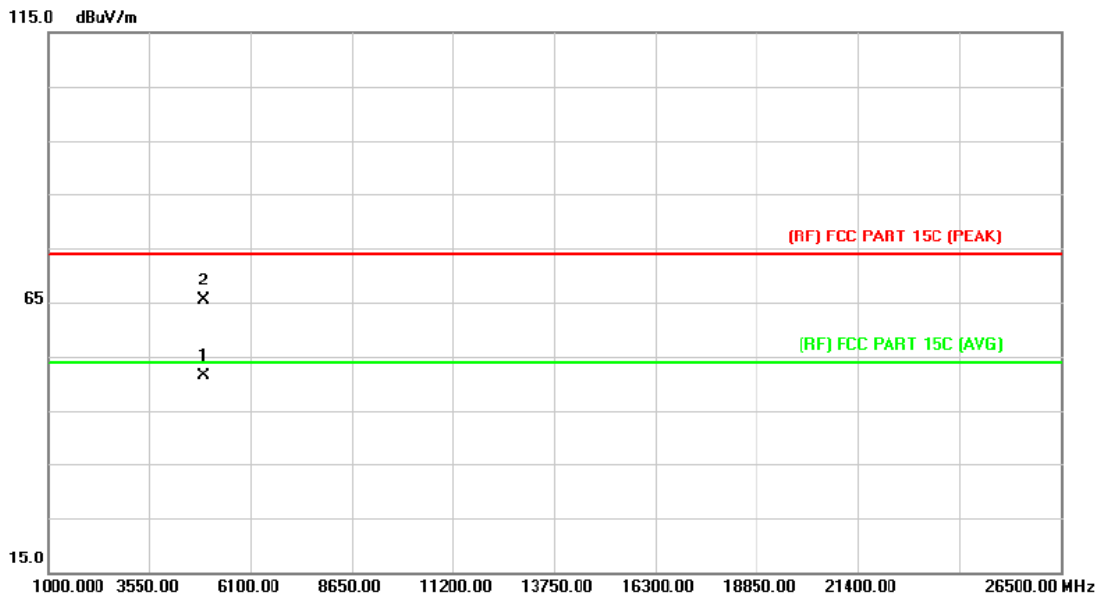
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4872.815	34.96	15.08	50.04	54.00	-3.96	AVG
2		4874.048	48.97	15.10	64.07	74.00	-9.93	peak

Emission Level= Read Level+ Correct Factor

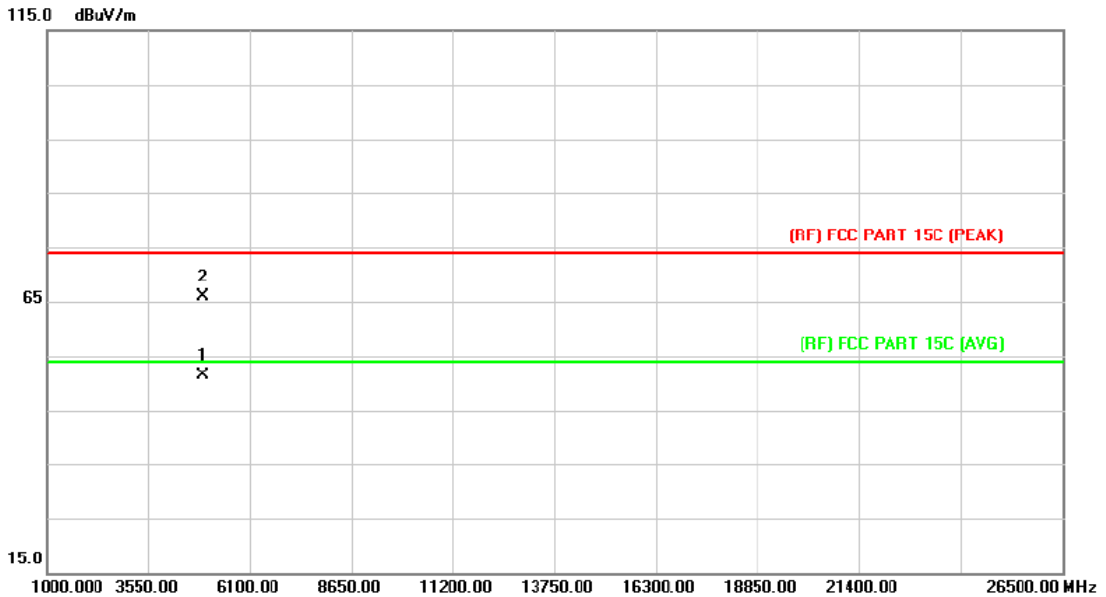
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4923.922	35.92	15.48	51.40	54.00	-2.60	AVG
2		4924.036	49.84	15.48	65.32	74.00	-8.68	peak

Emission Level= Read Level+ Correct Factor

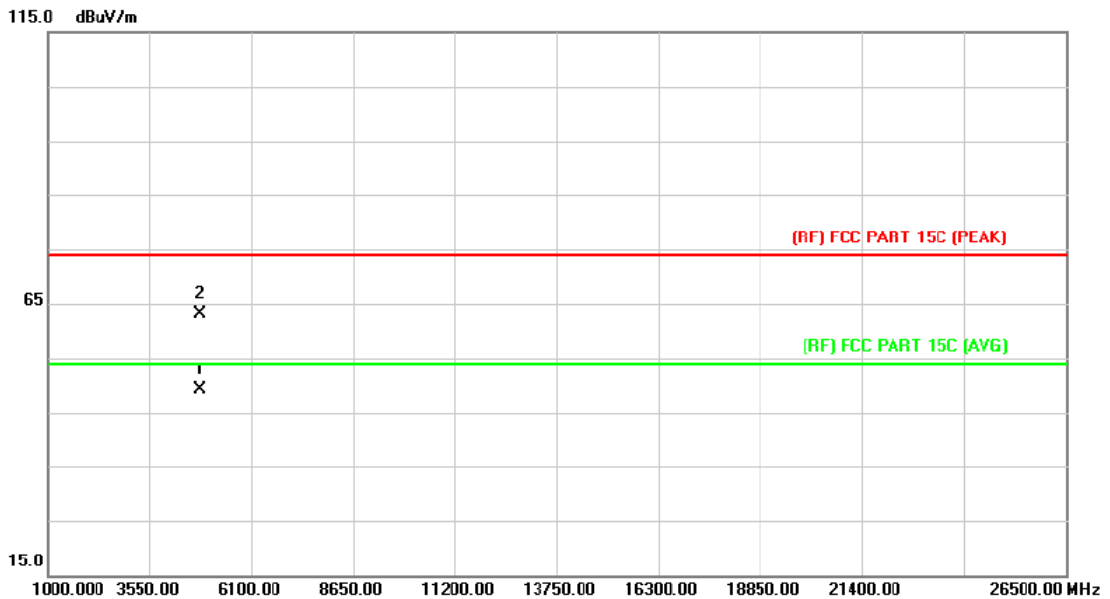
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4923.763	35.90	15.48	51.38	54.00	-2.62	AVG
2		4924.816	50.44	15.49	65.93	74.00	-8.07	peak

Emission Level= Read Level+ Correct Factor

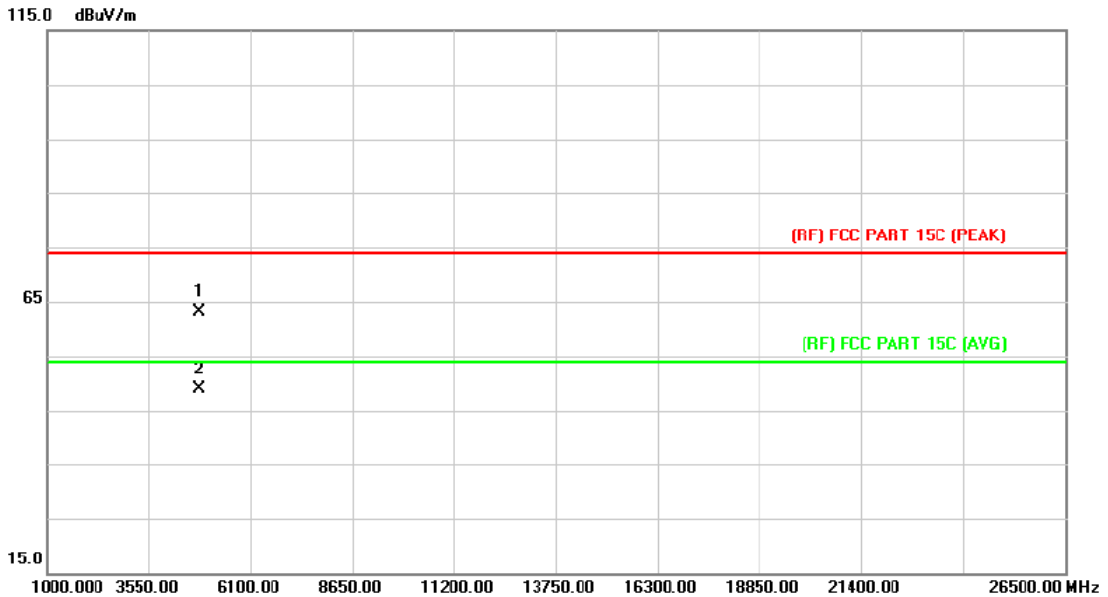
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4823.448	34.31	14.71	49.02	54.00	-4.98	AVG
2		4824.909	48.48	14.71	63.19	74.00	-10.81	peak

Emission Level= Read Level+ Correct Factor

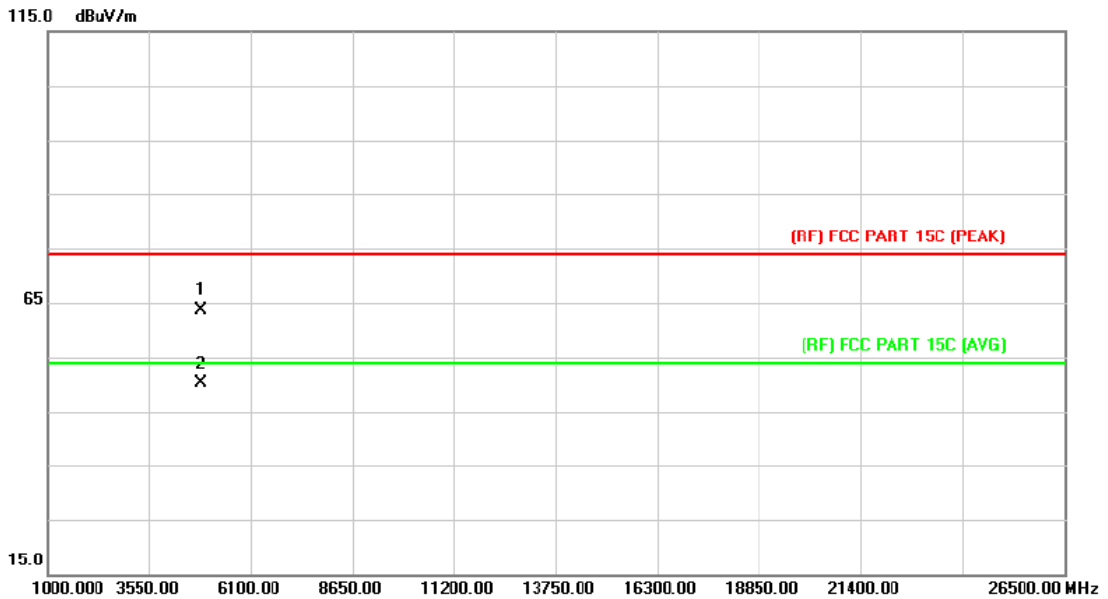
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4824.306	48.44	14.71	63.15	74.00	-10.85	peak
2	*	4824.711	34.29	14.71	49.00	54.00	-5.00	AVG

Emission Level= Read Level+ Correct Factor

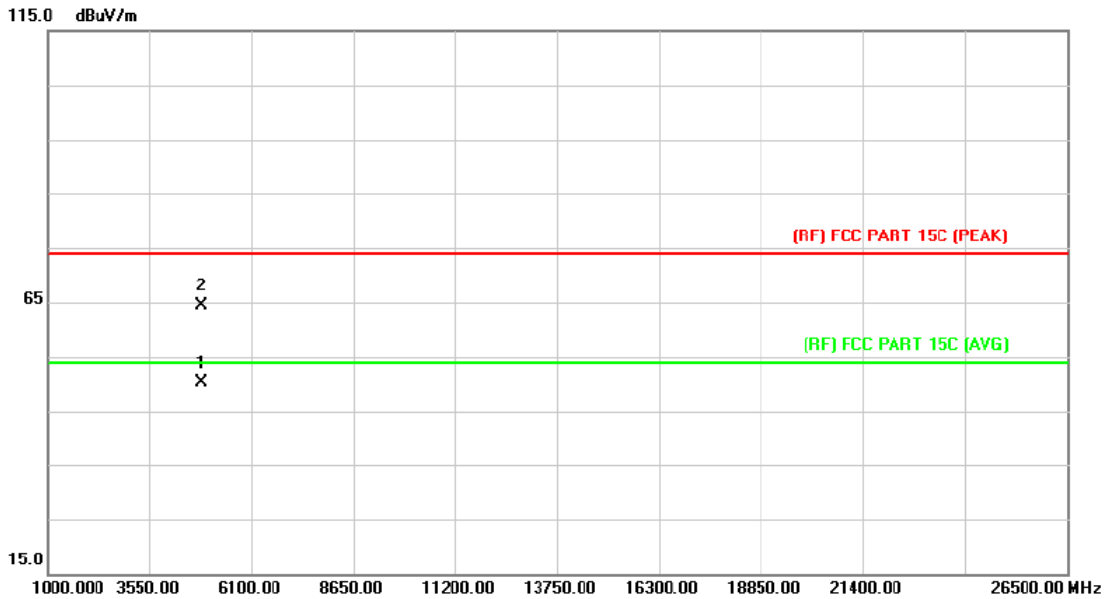
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4872.542	48.67	15.08	63.75	74.00	-10.25	peak
2	*	4875.341	34.92	15.11	50.03	54.00	-3.97	AVG

Emission Level= Read Level+ Correct Factor

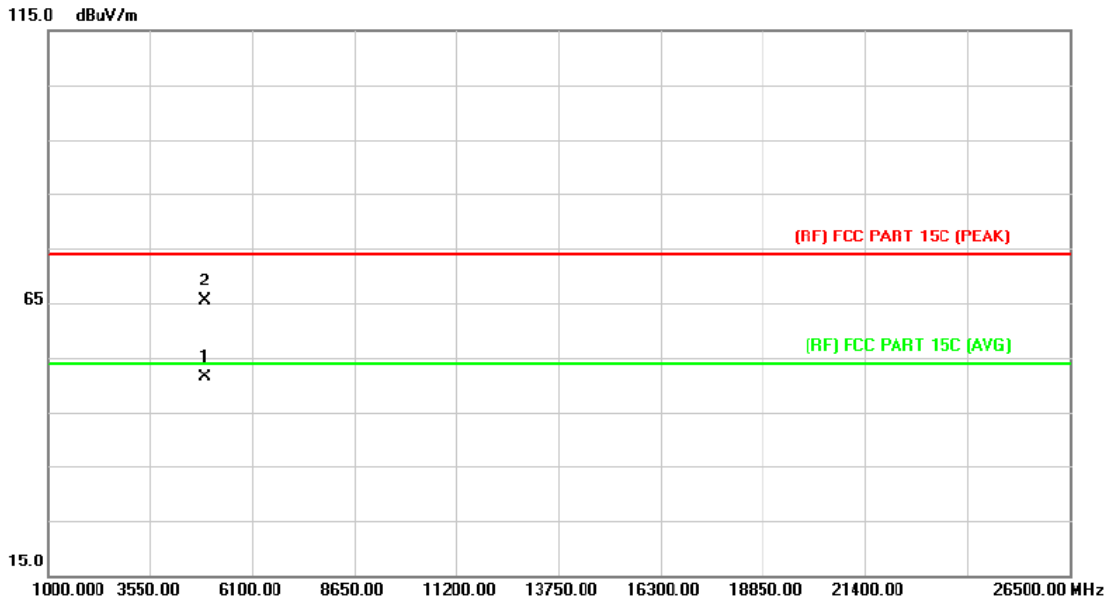
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4872.812	34.95	15.08	50.03	54.00	-3.97	AVG
2		4874.012	49.22	15.10	64.32	74.00	-9.68	peak

Emission Level= Read Level+ Correct Factor

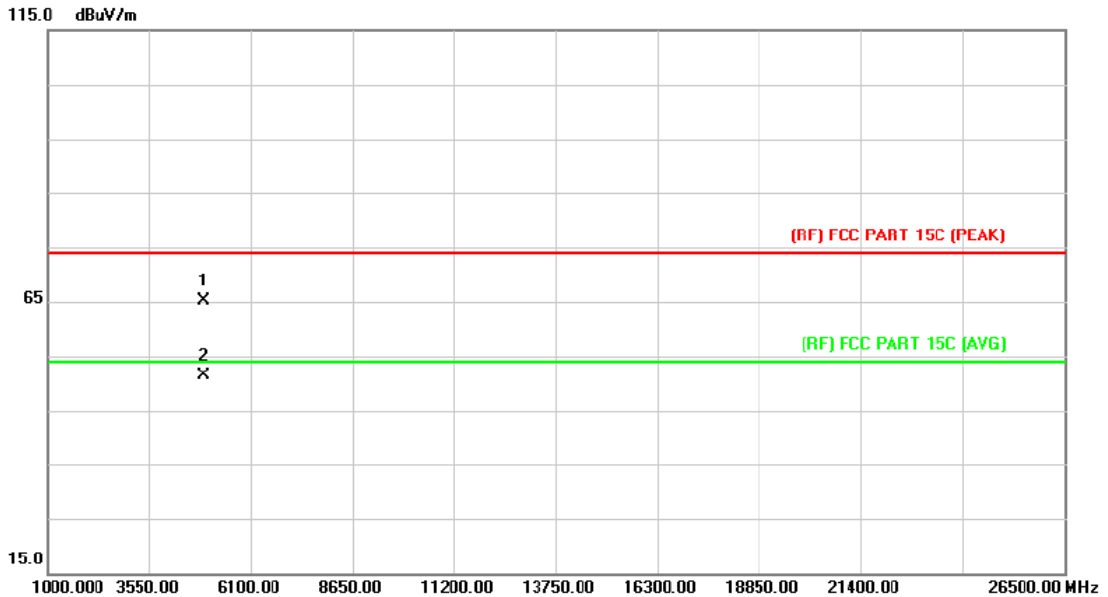
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4923.922	35.95	15.48	51.43	54.00	-2.57	AVG
2		4923.949	49.98	15.48	65.46	74.00	-8.54	peak

Emission Level= Read Level+ Correct Factor

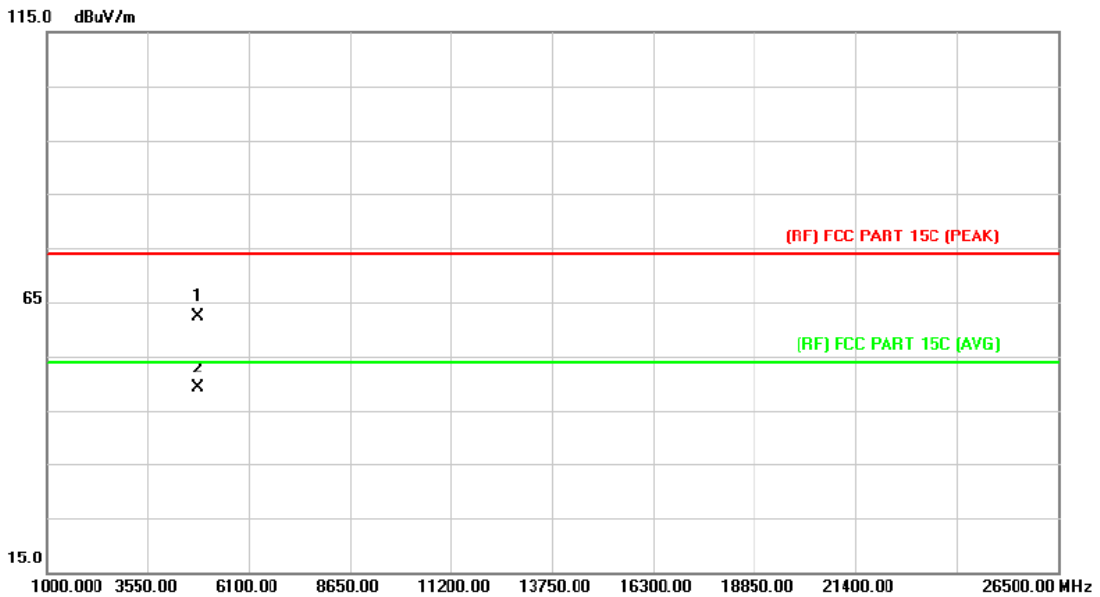
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4924.054	49.63	15.48	65.11	74.00	-8.89	peak
2	*	4924.078	35.94	15.48	51.42	54.00	-2.58	AVG

Emission Level= Read Level+ Correct Factor

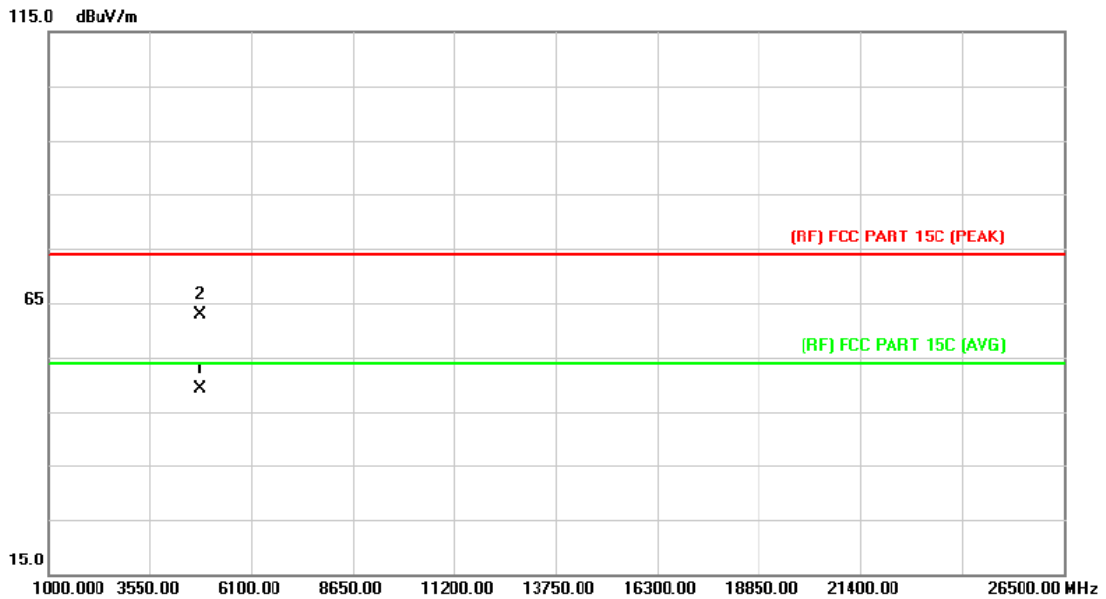
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.505	47.72	14.71	62.43	74.00	-11.57	peak
2	*	4825.341	34.33	14.72	49.05	54.00	-4.95	AVG

Emission Level= Read Level+ Correct Factor

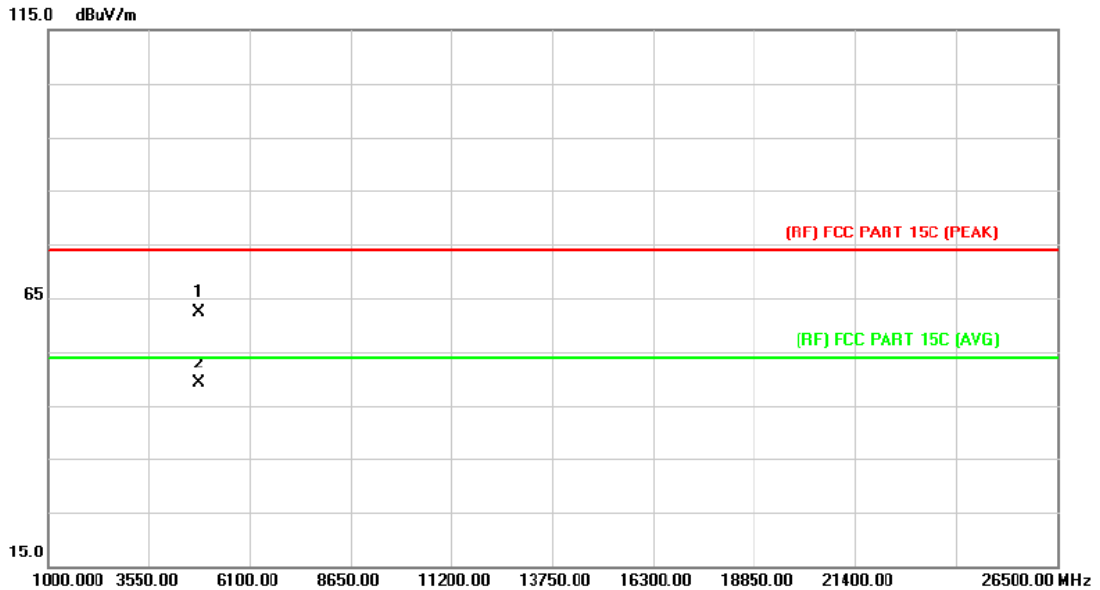
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4823.763	34.35	14.71	49.06	54.00	-4.94	AVG
2		4824.717	48.05	14.71	62.76	74.00	-11.24	peak

Emission Level= Read Level+ Correct Factor

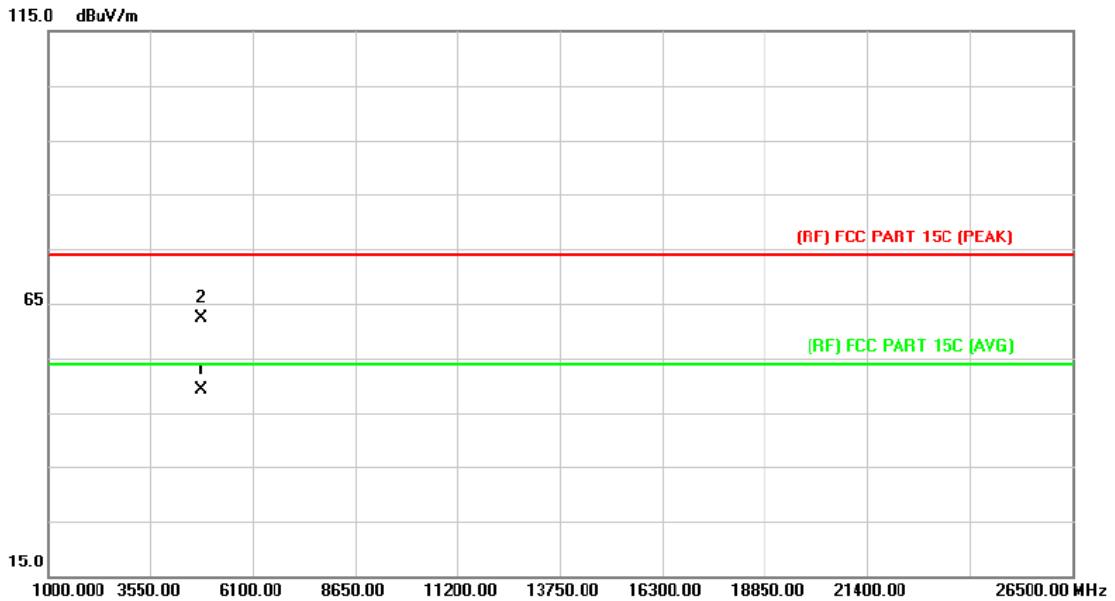
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4822.998	47.80	14.70	62.50	74.00	-11.50	peak
2	*	4823.607	34.33	14.71	49.04	54.00	-4.96	AVG

Emission Level= Read Level+ Correct Factor

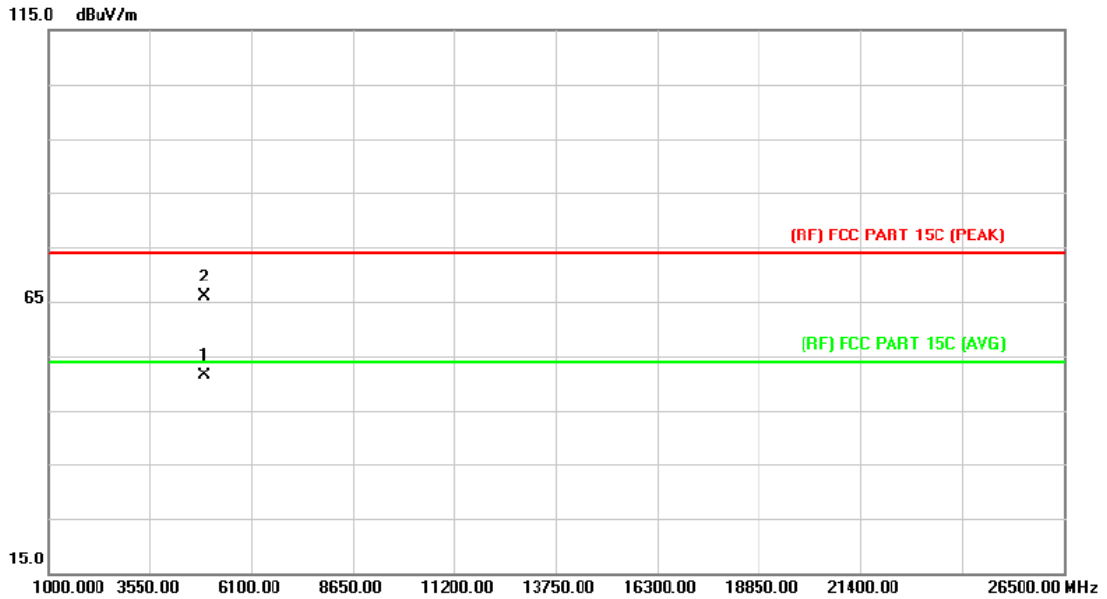
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4822.659	34.34	14.70	49.04	54.00	-4.96	AVG
2		4824.180	47.61	14.71	62.32	74.00	-11.68	peak

Emission Level= Read Level+ Correct Factor

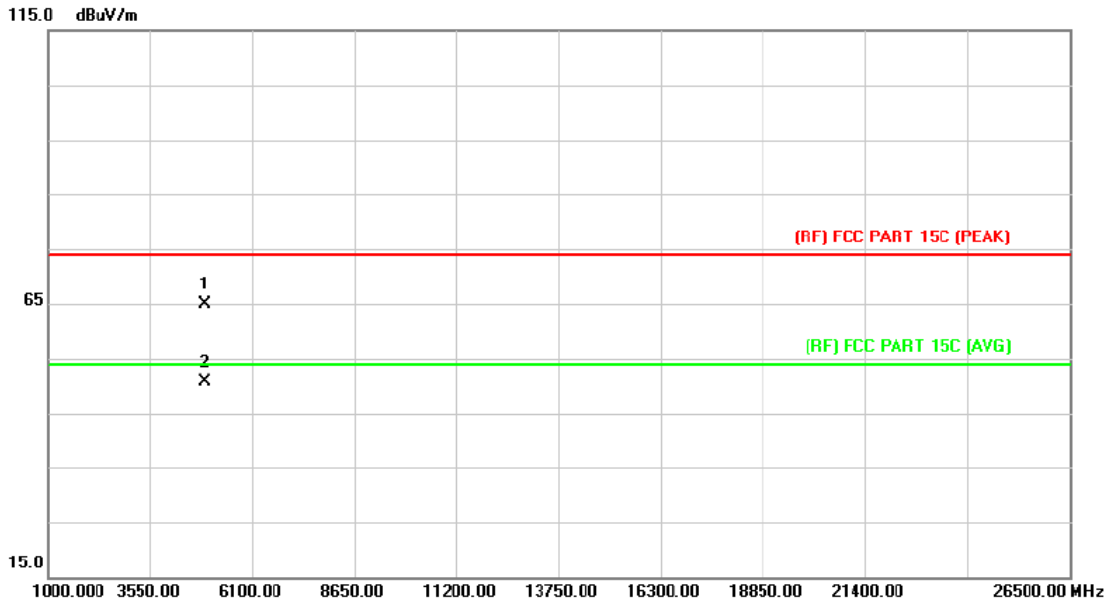
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4923.919	35.94	15.48	51.42	54.00	-2.58	AVG
2		4924.993	50.29	15.49	65.78	74.00	-8.22	peak

Emission Level= Read Level+ Correct Factor

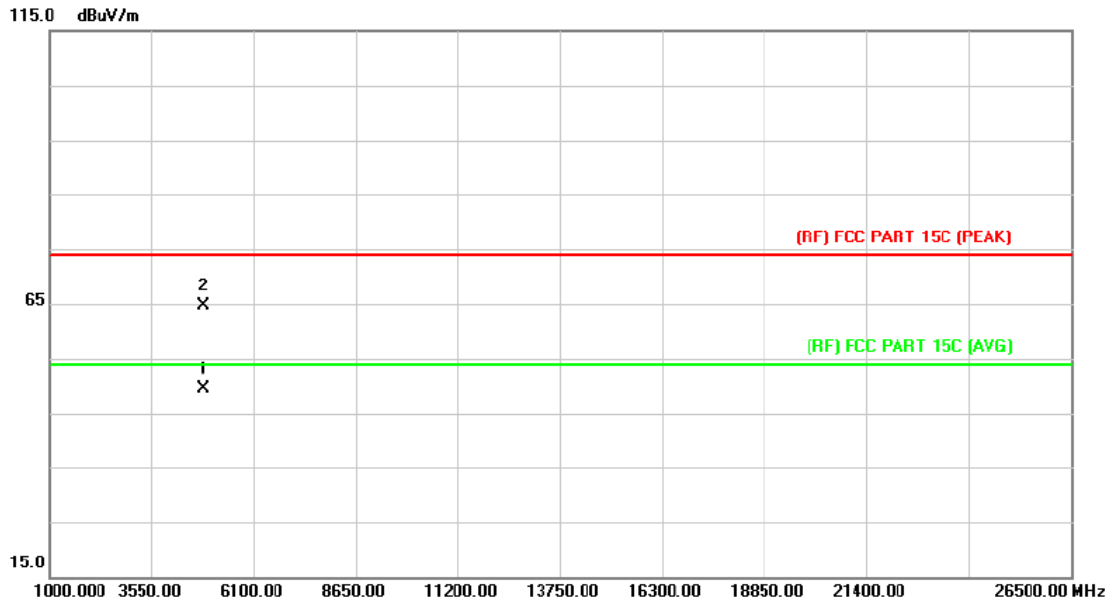
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4922.935	49.42	15.47	64.89	74.00	-9.11	peak
2	*	4924.237	35.19	15.48	50.67	54.00	-3.33	AVG

Emission Level= Read Level+ Correct Factor

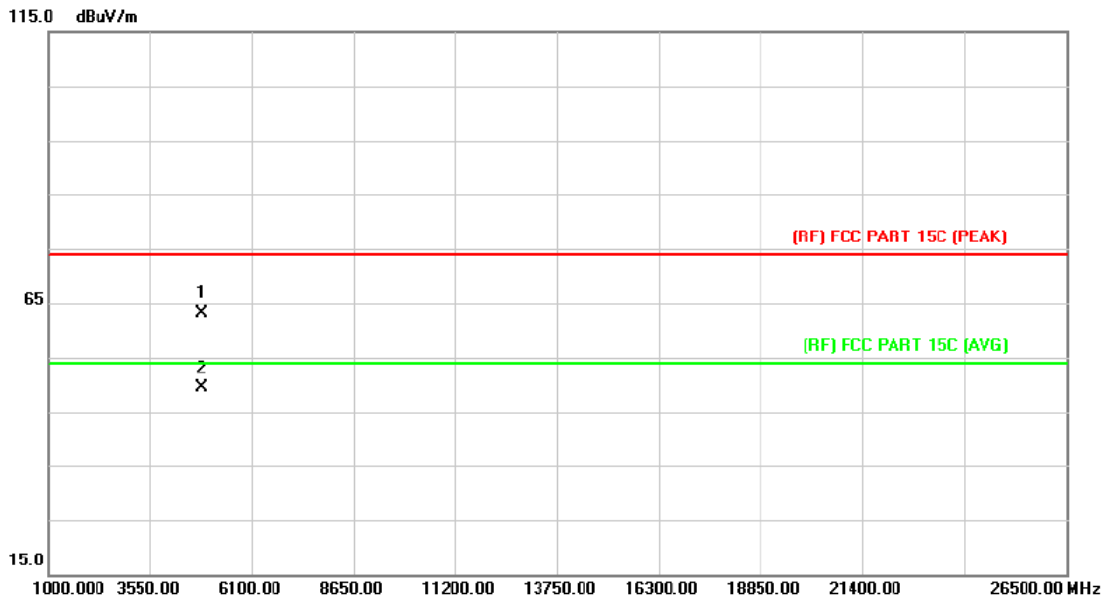
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4843.130	34.58	14.86	49.44	54.00	-4.56	AVG
2		4843.469	49.76	14.86	64.62	74.00	-9.38	peak

Emission Level= Read Level+ Correct Factor

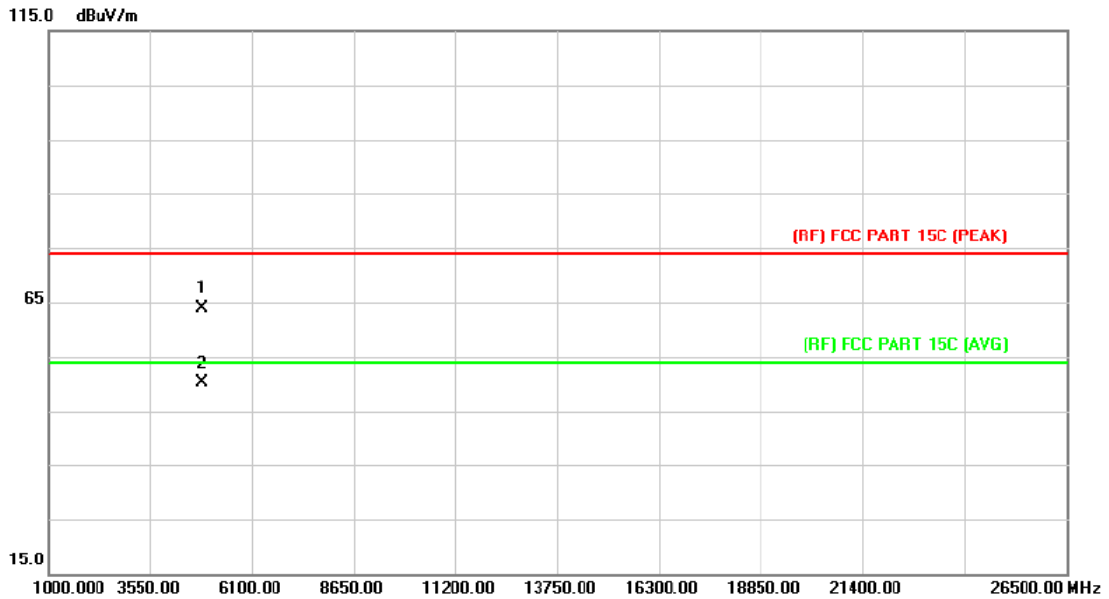
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4844.027	48.27	14.87	63.14	74.00	-10.86	peak
2	*	4845.338	34.57	14.88	49.45	54.00	-4.55	AVG

Emission Level= Read Level+ Correct Factor

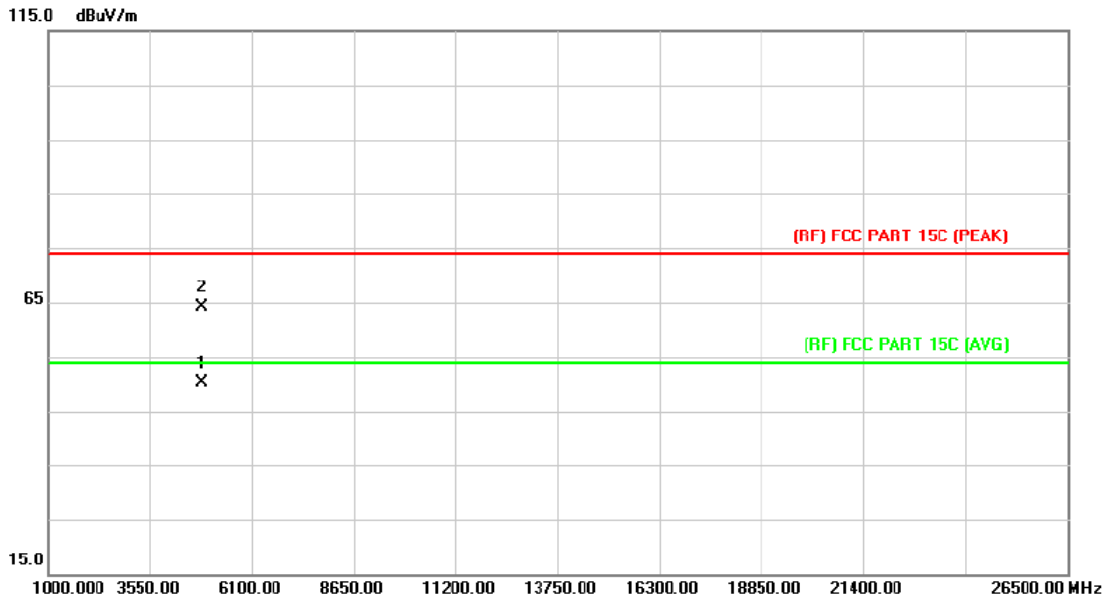
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4874.366	48.89	15.10	63.99	74.00	-10.01	peak
2	*	4875.500	34.91	15.11	50.02	54.00	-3.98	AVG

Emission Level= Read Level+ Correct Factor

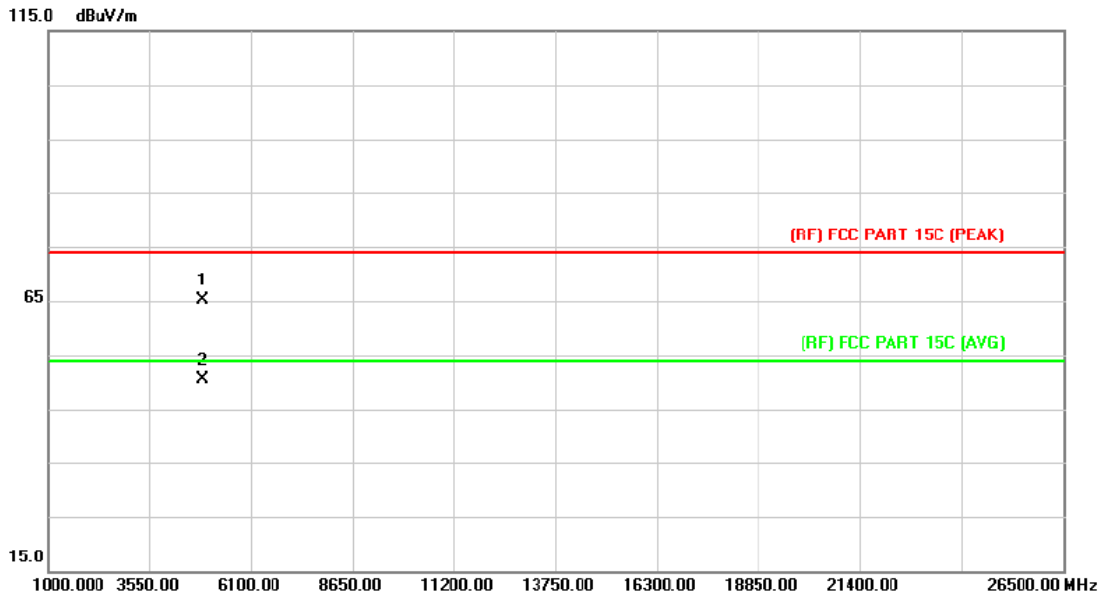
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4872.974	34.97	15.08	50.05	54.00	-3.95	AVG
2		4874.207	49.11	15.10	64.21	74.00	-9.79	peak

Emission Level= Read Level+ Correct Factor

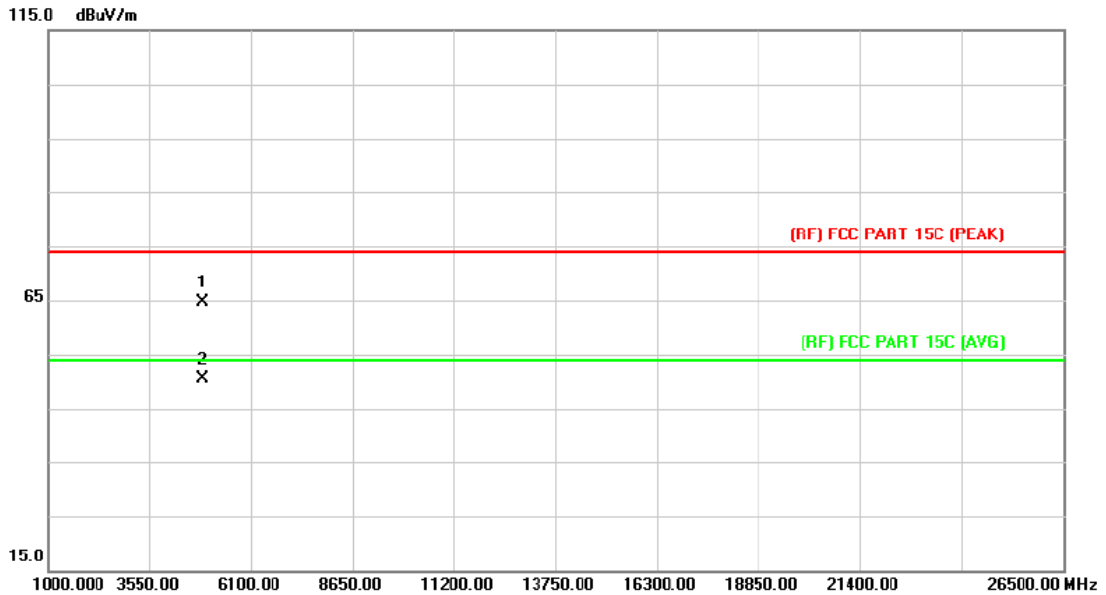
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4904.381	49.81	15.33	65.14	74.00	-8.86	peak
2	*	4905.500	35.09	15.34	50.43	54.00	-3.57	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



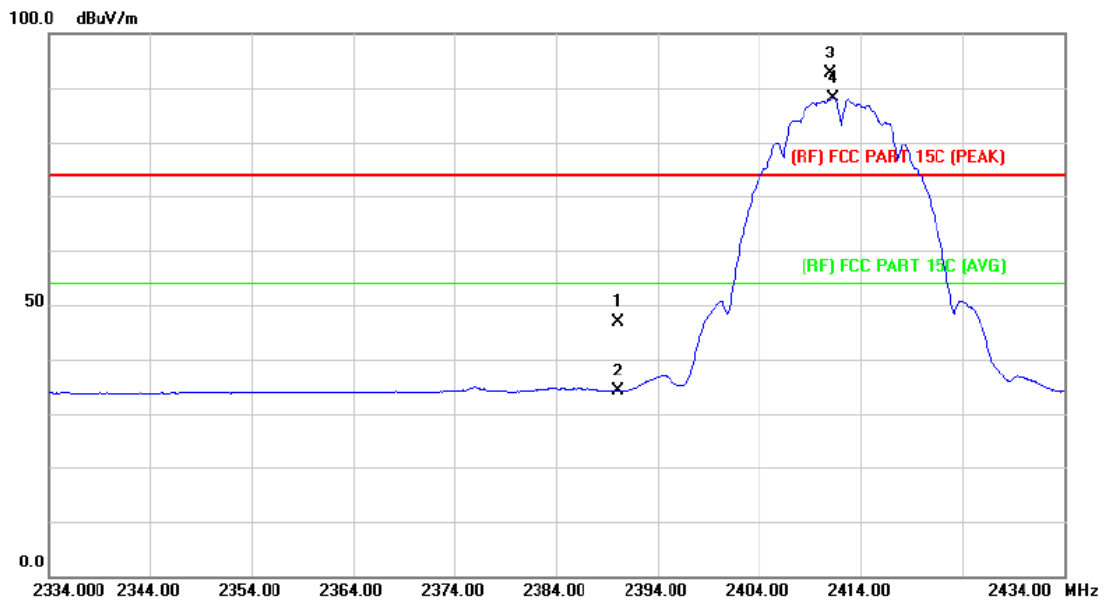
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4902.863	49.42	15.32	64.74	74.00	-9.26	peak
2	*	4904.237	35.09	15.33	50.42	54.00	-3.58	AVG

Emission Level= Read Level+ Correct Factor

Attachment C-- Restricted Bands Requirement Test Data

(1) Radiation Test

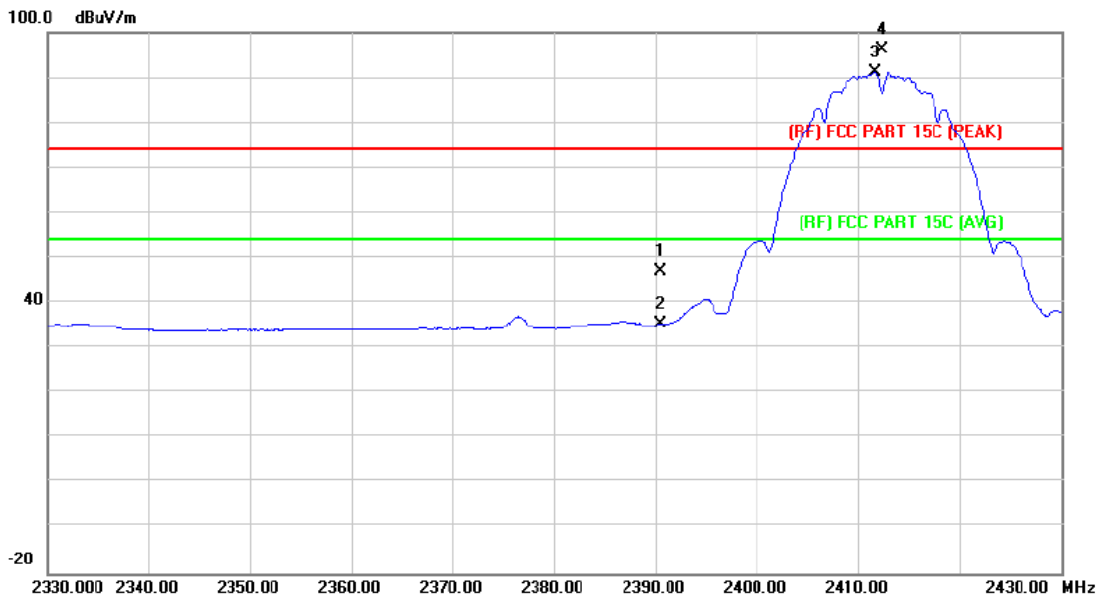
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.12	0.77	46.89	74.00	-27.11	peak
2		2390.000	33.24	0.77	34.01	54.00	-19.99	AVG
3	X	2411.000	91.77	0.86	92.63	Fundamental Frequency		peak
4	*	2411.300	87.26	0.86	88.12	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

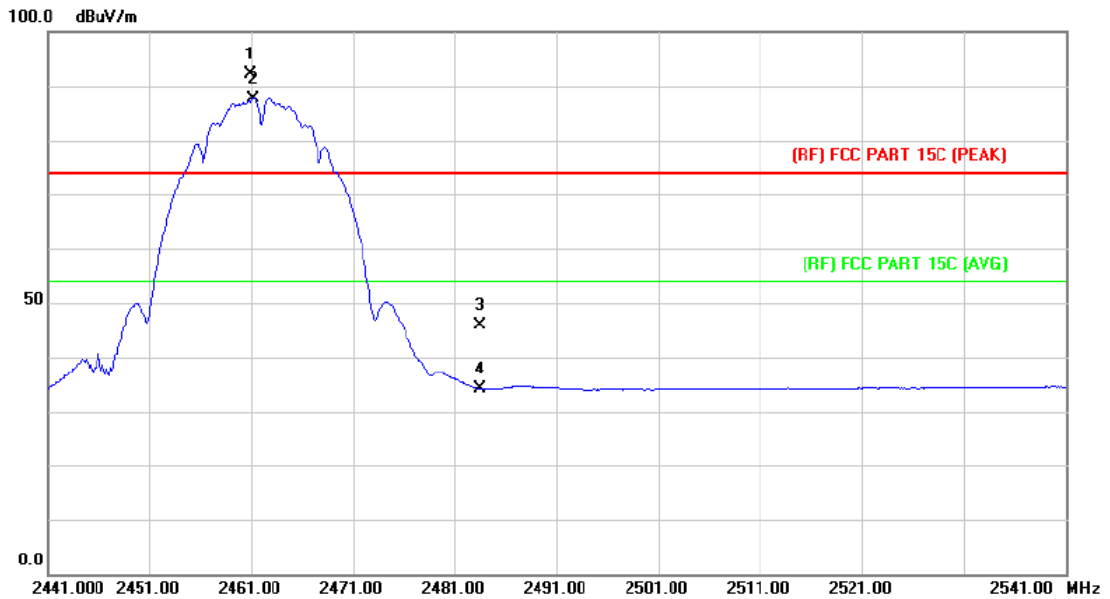
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.42	0.77	47.19	74.00	-26.81	peak
2		2390.000	34.60	0.77	35.37	54.00	-18.63	AVG
3	*	2411.300	90.37	0.86	91.23	Fundamental Frequency		AVG
4	X	2412.000	95.45	0.86	96.31	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

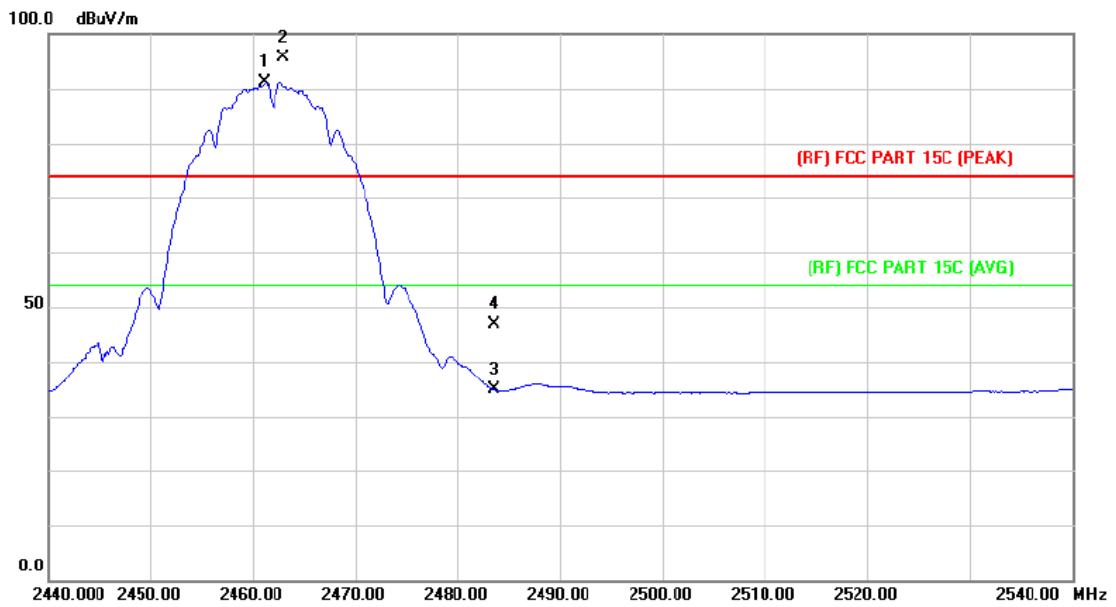
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.900	91.19	1.06	92.25	Fundamental Frequency		peak
2	*	2461.200	86.61	1.07	87.68	Fundamental Frequency		AVG
3		2483.500	44.83	1.17	46.00	74.00	-28.00	peak
4		2483.500	32.96	1.17	34.13	54.00	-19.87	AVG

Emission Level= Read Level+ Correct Factor

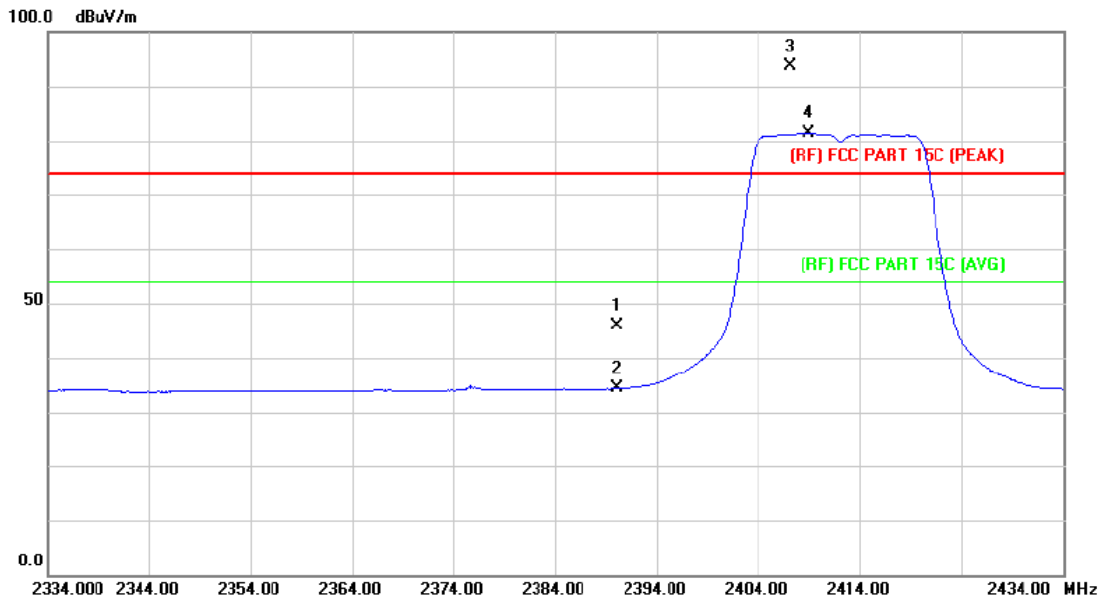
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2461.200	90.00	1.07	91.07	Fundamental Frequency		AVG
2	*	2463.000	94.57	1.08	95.65	Fundamental Frequency		peak
3		2483.500	33.64	1.17	34.81	74.00	-39.19	AVG
4		2483.500	45.73	1.17	46.90	74.00	-27.10	peak

Emission Level= Read Level+ Correct Factor

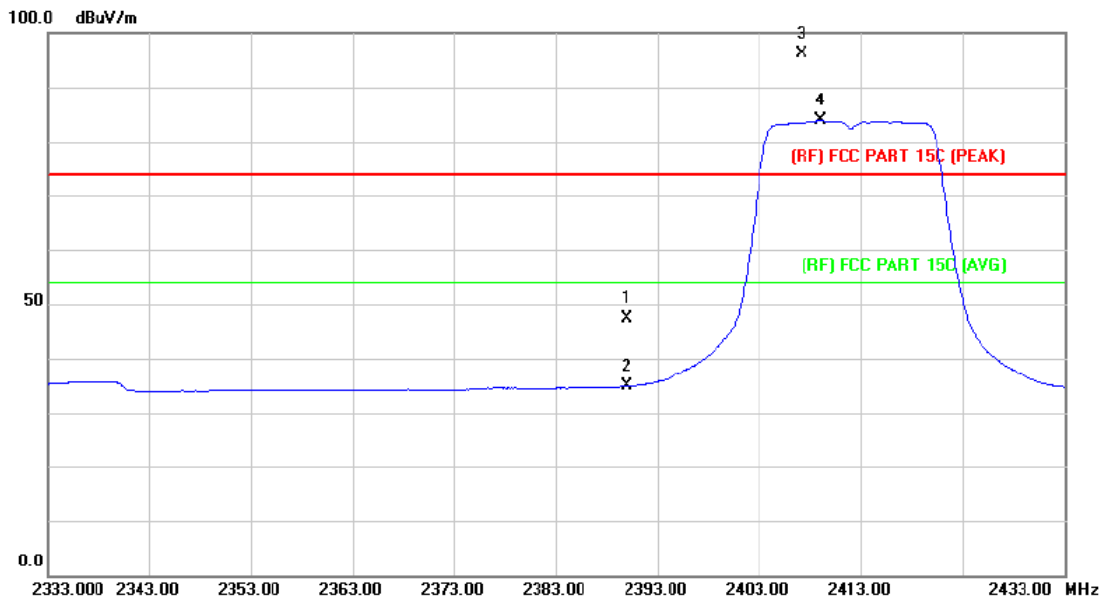
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.03	0.77	45.80	74.00	-28.20	peak
2		2390.000	33.52	0.77	34.29	54.00	-19.71	AVG
3	X	2407.100	92.81	0.85	93.66	Fundamental Frequency		peak
4	*	2409.000	80.60	0.85	81.45	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

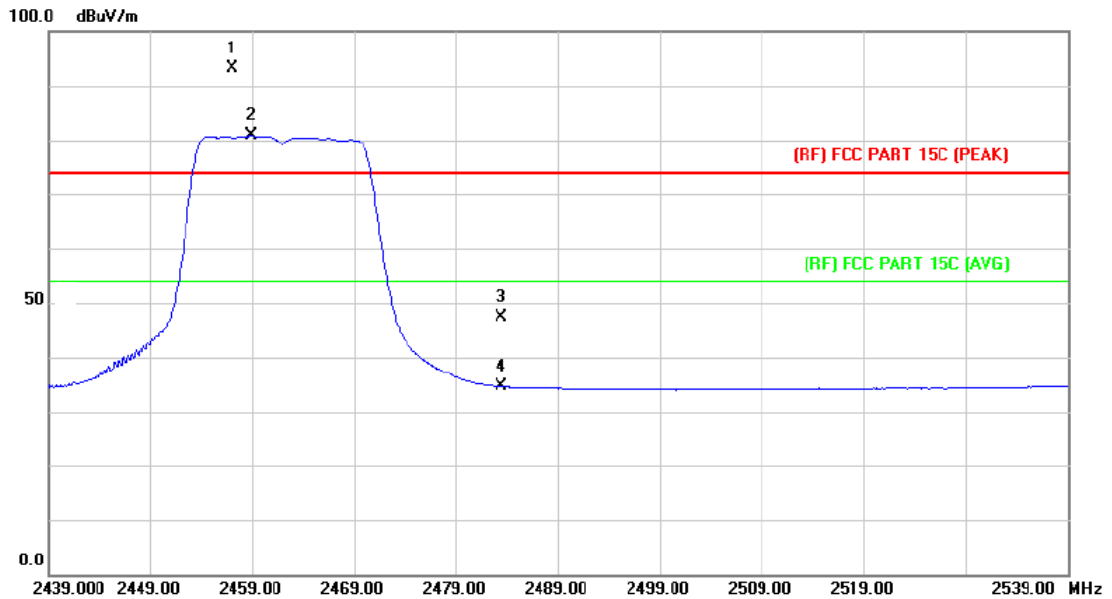
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.73	0.77	47.50	74.00	-26.50	peak
2		2390.000	34.08	0.77	34.85	54.00	-19.15	AVG
3	X	2407.200	95.24	0.85	96.09	Fundamental Frequency		peak
4	*	2409.000	83.00	0.85	83.85	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

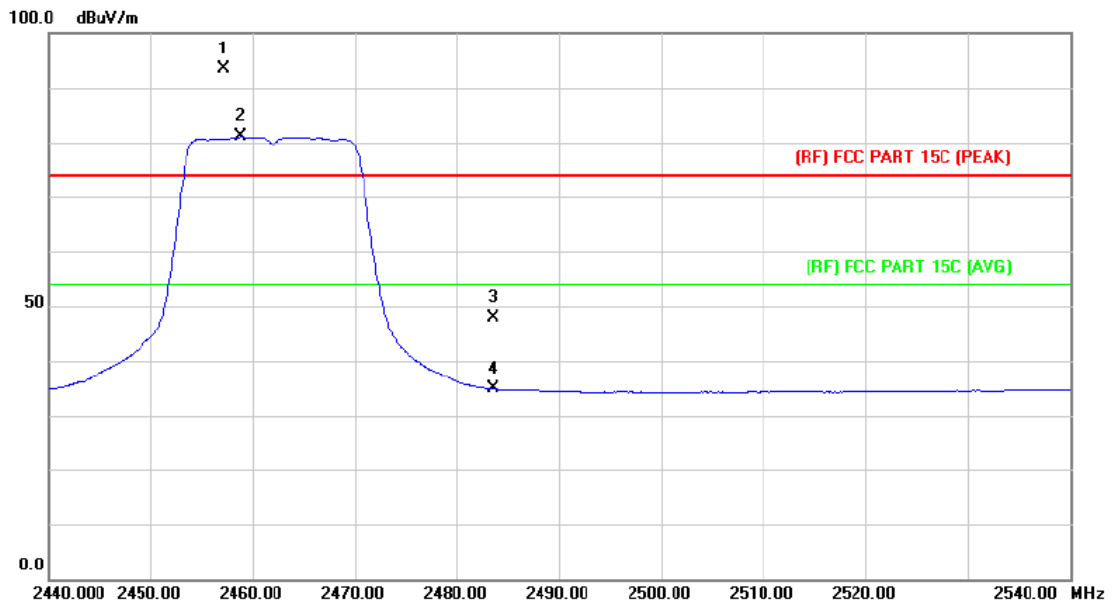
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2457.100	92.03	1.05	93.08	Fundamental Frequency		peak
2	*	2458.900	79.72	1.06	80.78	Fundamental Frequency		AVG
3		2483.500	46.28	1.17	47.45	74.00	-26.55	peak
4		2483.500	33.37	1.17	34.54	54.00	-19.46	AVG

Emission Level= Read Level+ Correct Factor

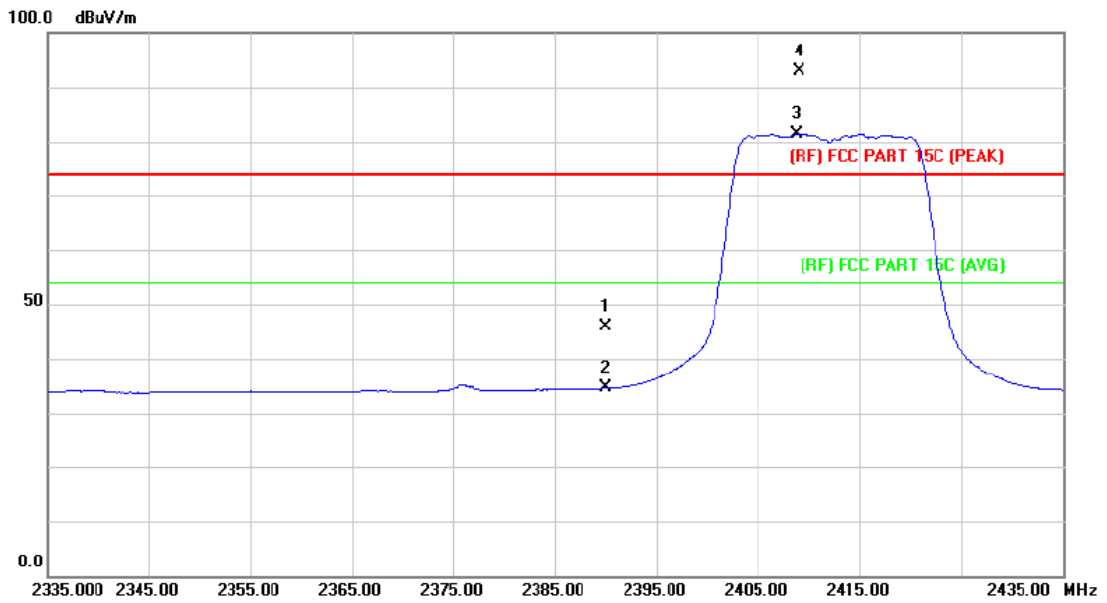
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2457.200	92.22	1.05	93.27	Fundamental Frequency		peak
2	*	2458.900	79.97	1.06	81.03	Fundamental Frequency		AVG
3		2483.500	46.79	1.17	47.96	74.00	-26.04	peak
4		2483.500	33.65	1.17	34.82	54.00	-19.18	AVG

Emission Level= Read Level+ Correct Factor

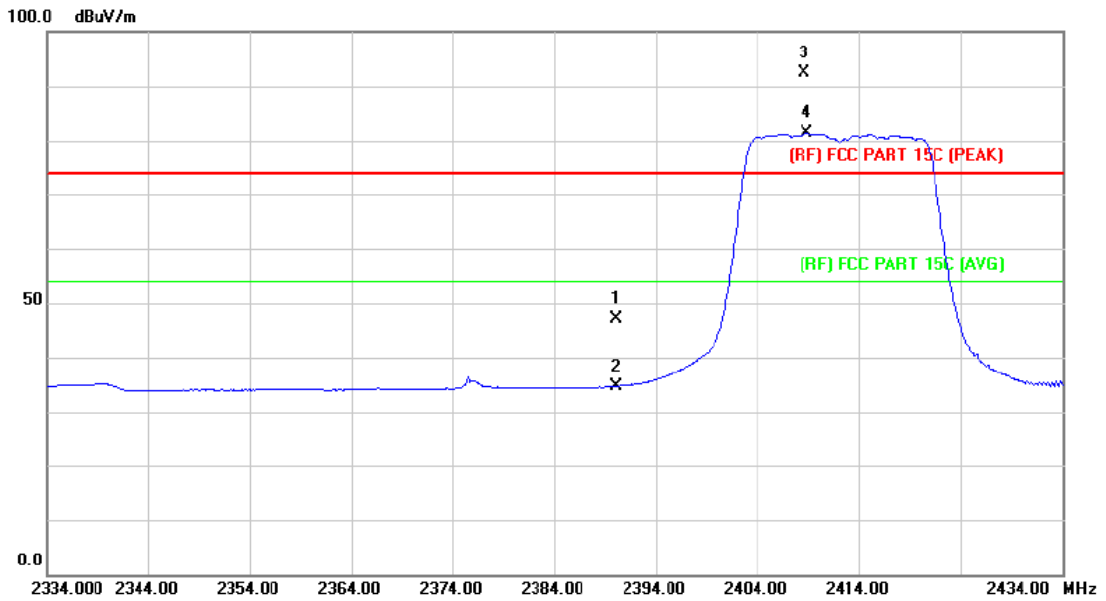
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.18	0.77	45.95	74.00	-28.05	peak
2		2390.000	33.78	0.77	34.55	54.00	-19.45	AVG
3	*	2408.800	80.53	0.85	81.38	Fundamental Frequency		AVG
4	X	2409.000	92.01	0.85	92.86	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

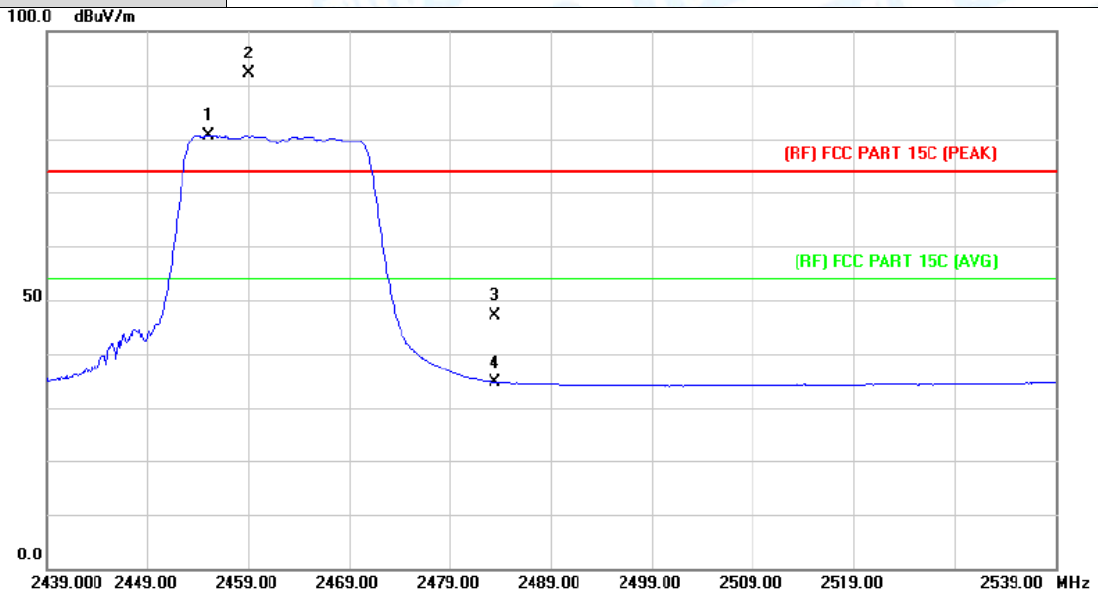
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.41	0.77	47.18	74.00	-26.82	peak
2		2390.000	33.89	0.77	34.66	54.00	-19.34	AVG
3	X	2408.600	91.47	0.85	92.32	Fundamental Frequency		peak
4	*	2408.800	80.45	0.85	81.30	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

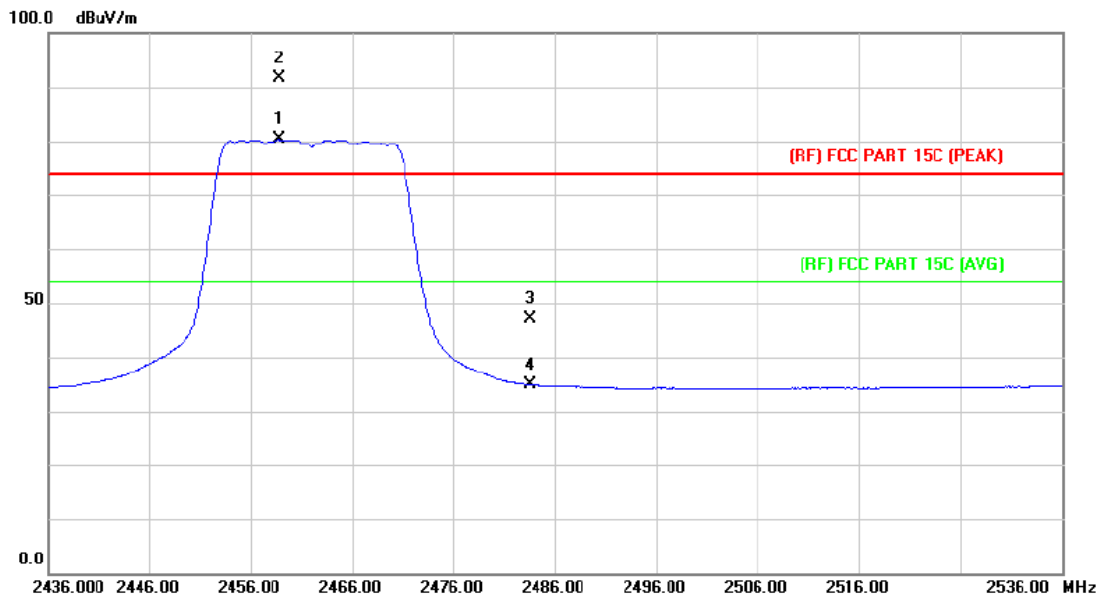
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2455.100	79.70	1.05	80.75	Fundamental Frequency		AVG
2	X	2459.000	90.99	1.06	92.05	Fundamental Frequency		peak
3		2483.500	46.04	1.17	47.21	74.00	-26.79	peak
4		2483.500	33.54	1.17	34.71	54.00	-19.29	AVG

Emission Level= Read Level+ Correct Factor

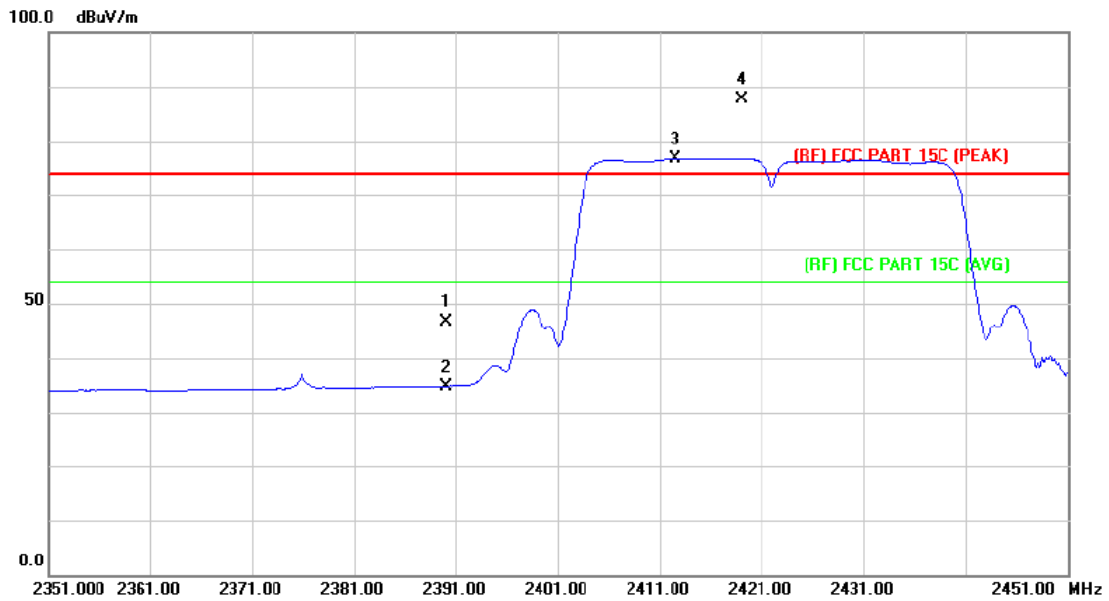
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2458.800	79.20	1.06	80.26	Fundamental Frequency		AVG
2	X	2458.900	90.65	1.06	91.71	Fundamental Frequency		peak
3		2483.500	45.95	1.17	47.12	74.00	-26.88	peak
4		2483.500	33.67	1.17	34.84	54.00	-19.16	AVG

Emission Level= Read Level+ Correct Factor

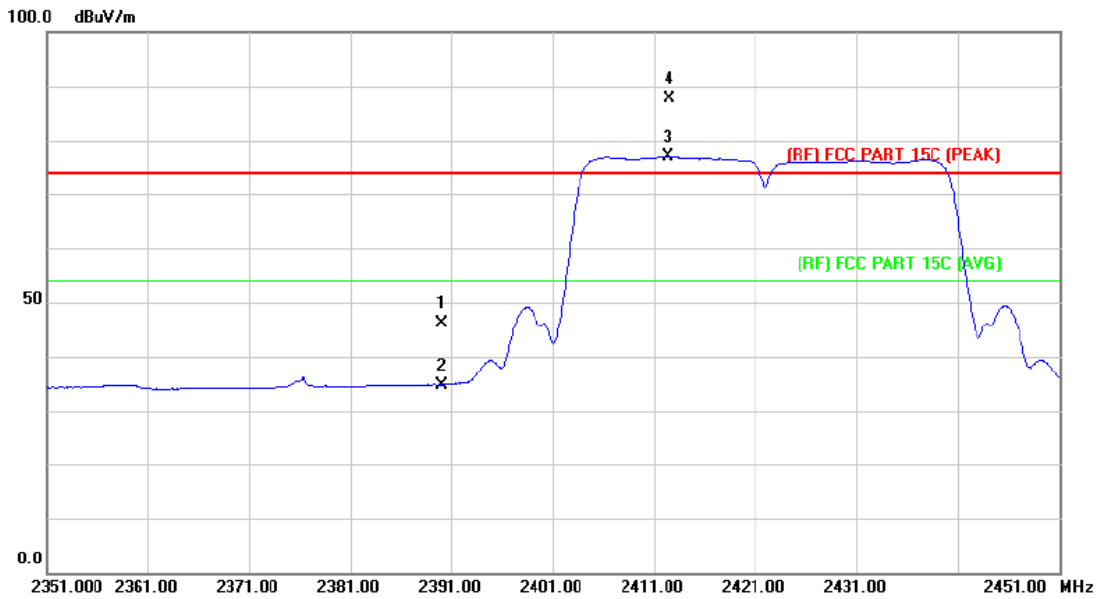
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.98	0.77	46.75	74.00	-27.25	peak
2		2390.000	33.90	0.77	34.67	54.00	-19.33	AVG
3	*	2412.600	75.84	0.86	76.70	Fundamental Frequency		AVG
4	X	2419.000	86.66	0.89	87.55	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

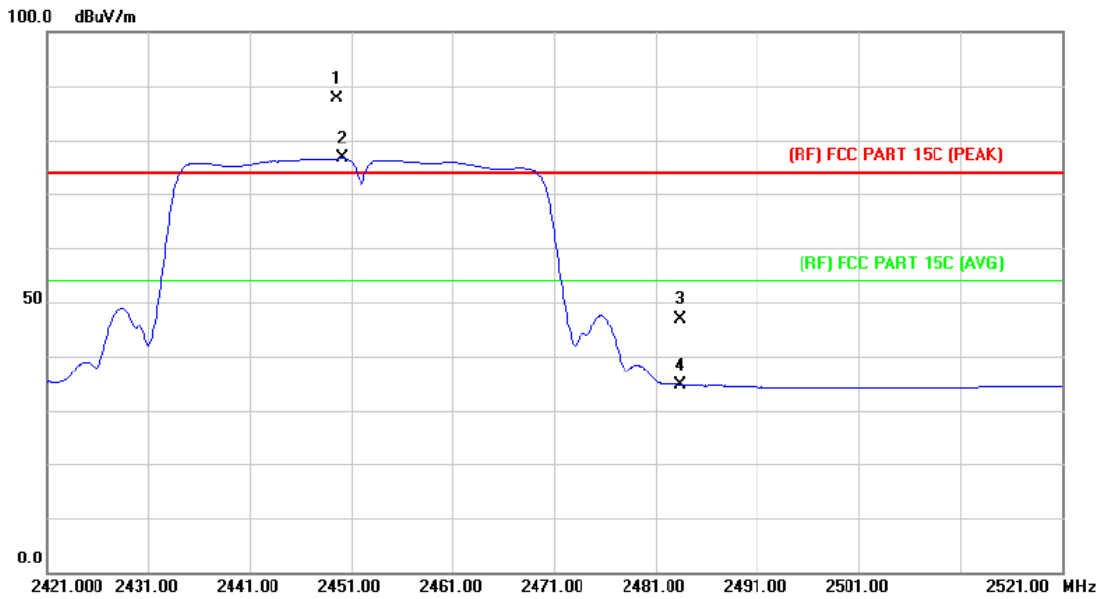
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.38	0.77	46.15	74.00	-27.85	peak
2		2390.000	33.97	0.77	34.74	54.00	-19.26	AVG
3	*	2412.400	76.03	0.86	76.89	Fundamental Frequency		AVG
4	X	2412.600	86.76	0.86	87.62	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

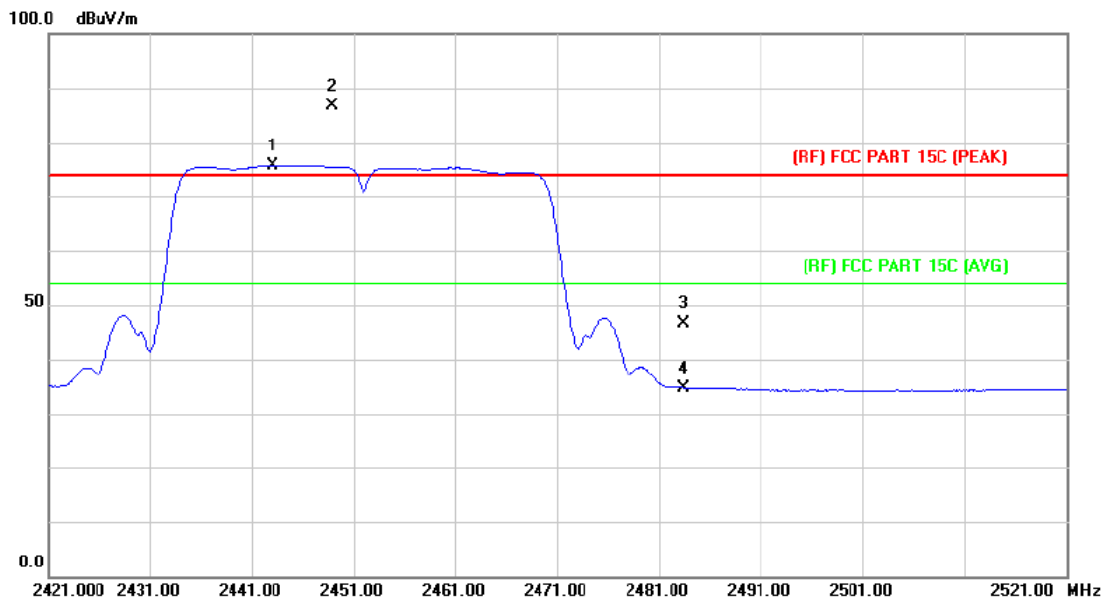
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2449.600	86.58	1.02	87.60	Fundamental Frequency		peak
2	*	2450.100	75.54	1.02	76.56	Fundamental Frequency		AVG
3		2483.500	45.80	1.17	46.97	74.00	-27.03	peak
4		2483.500	33.49	1.17	34.66	54.00	-19.34	AVG

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

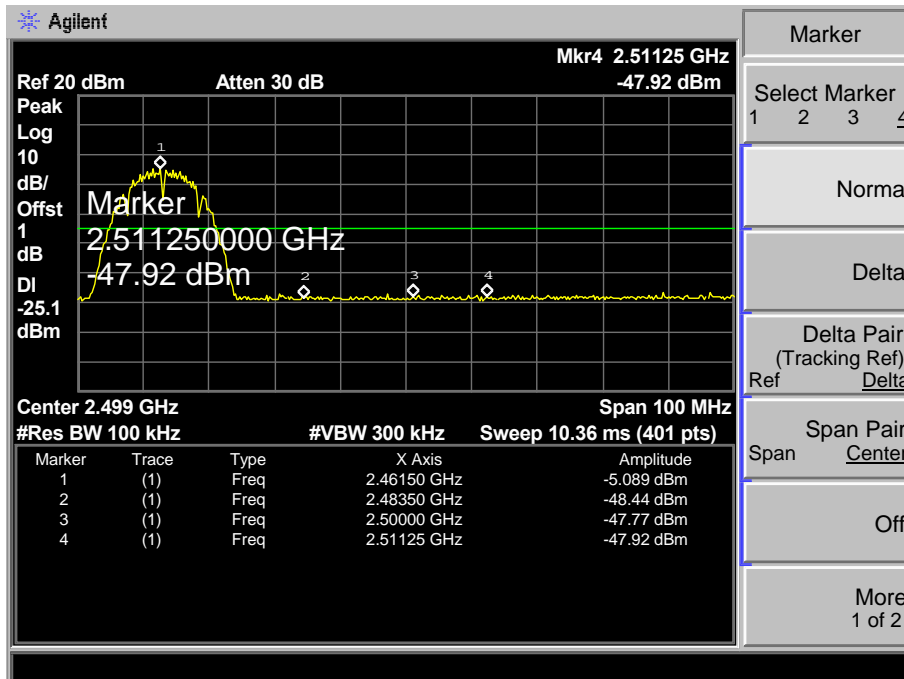
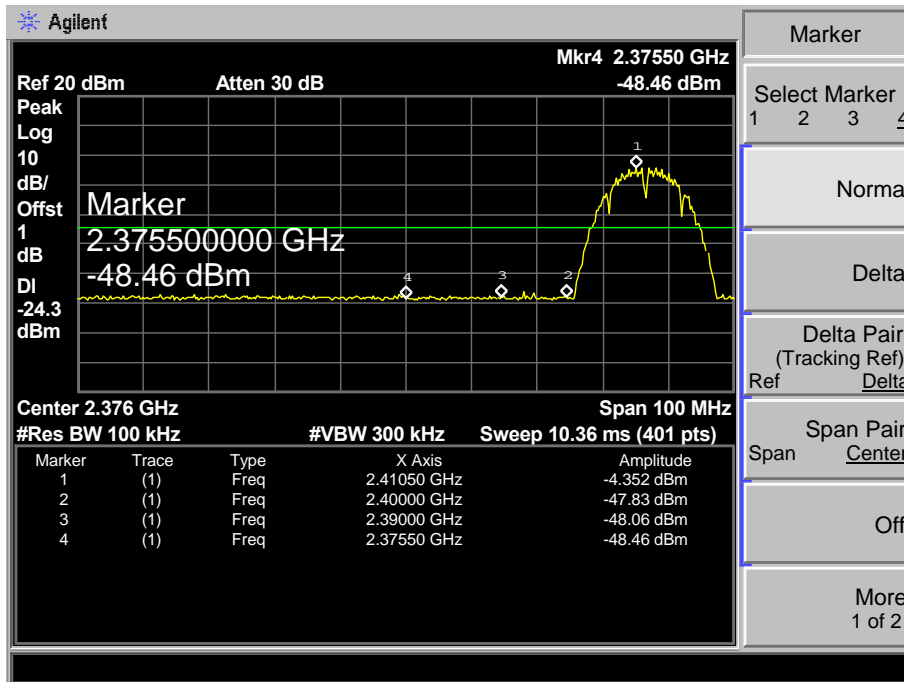


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2443.000	74.72	1.00	75.72	Fundamental Frequency		AVG
2	X	2448.900	85.64	1.02	86.66	Fundamental Frequency		peak
3		2483.500	45.38	1.17	46.55	74.00	-27.45	peak
4		2483.500	33.55	1.17	34.72	54.00	-19.28	AVG

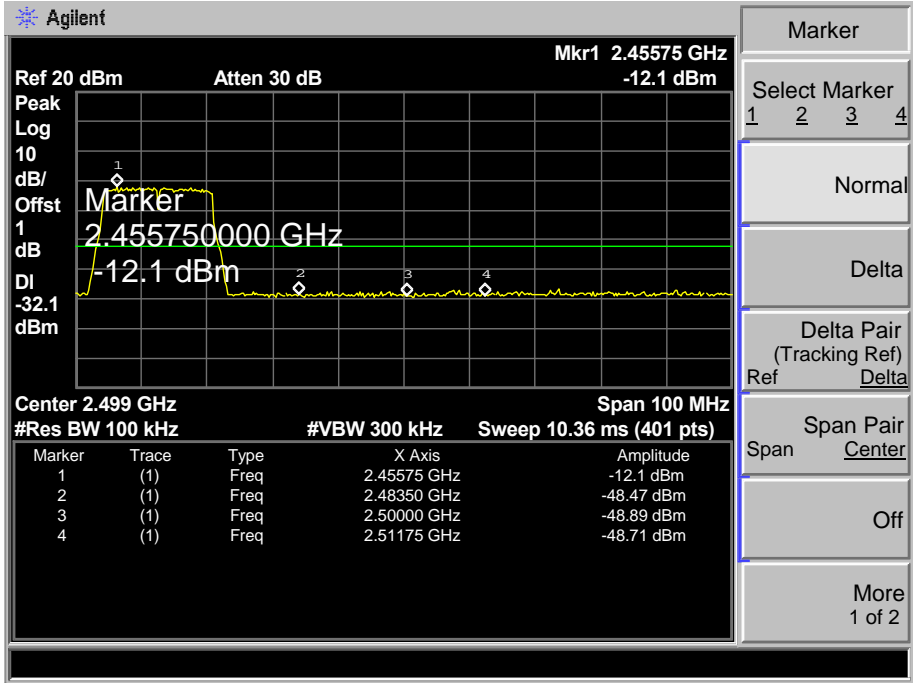
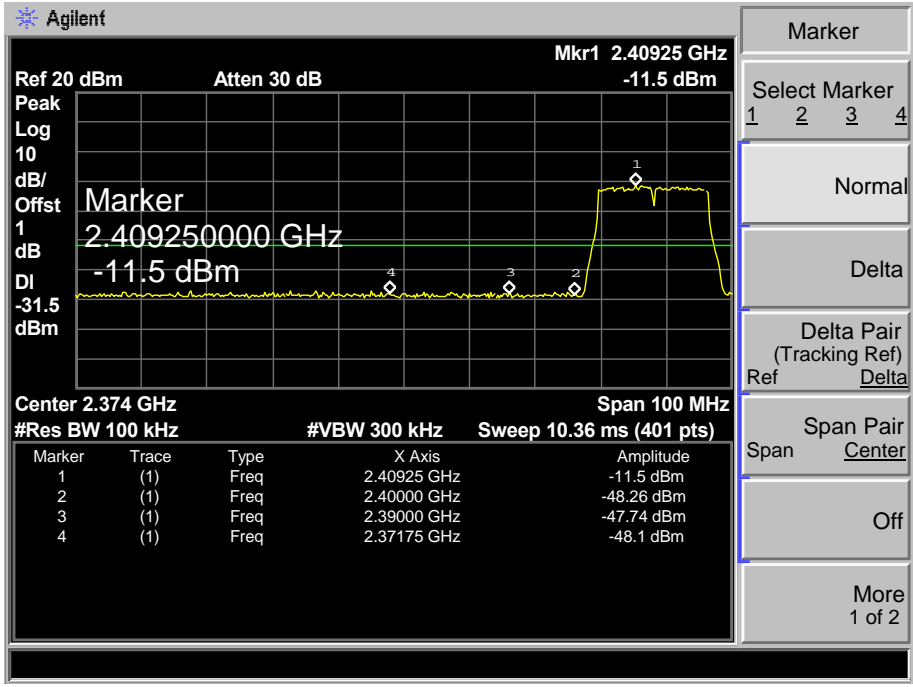
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

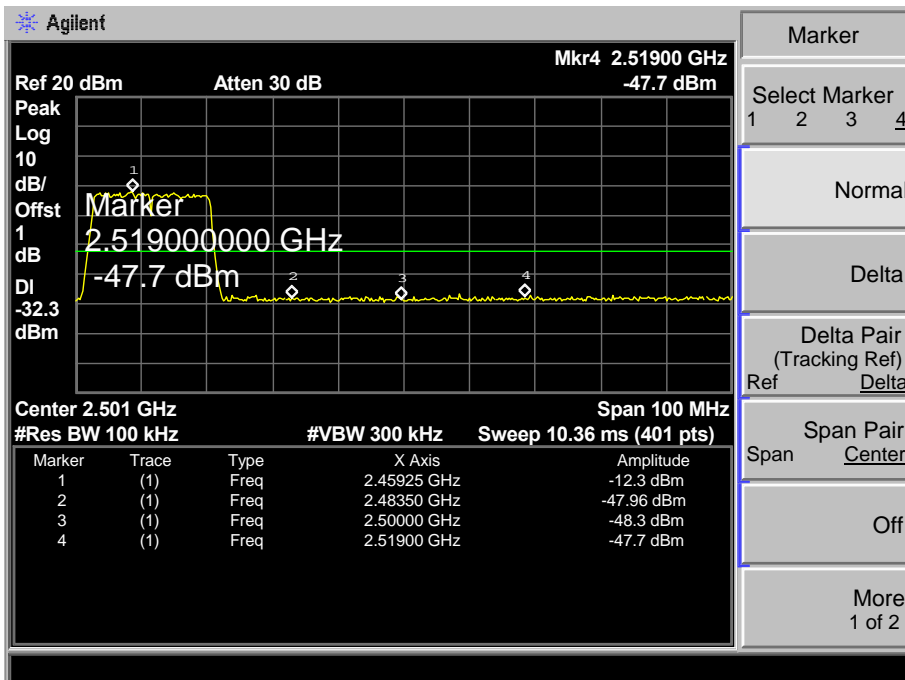
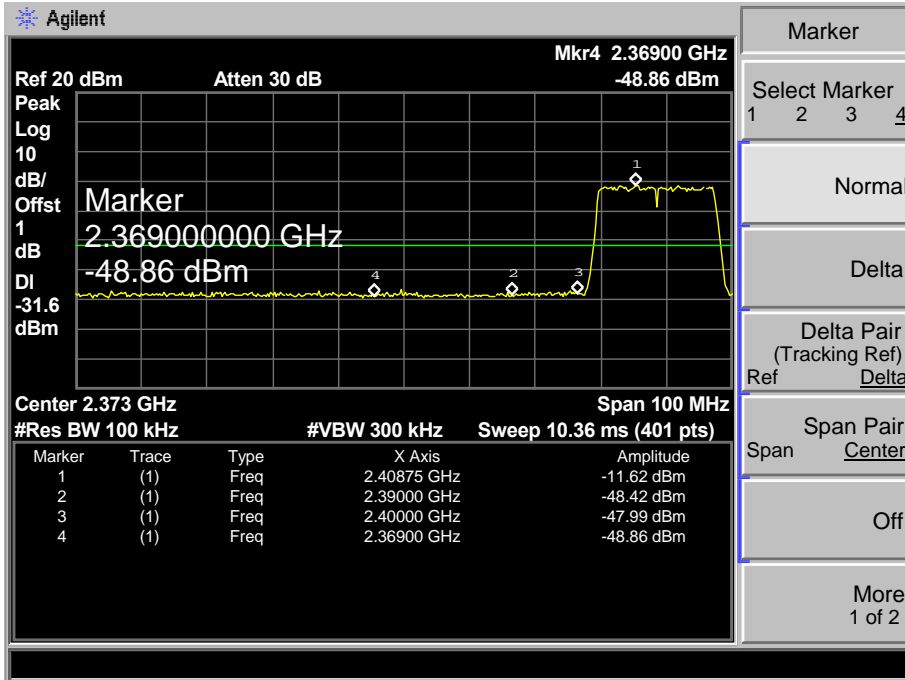
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



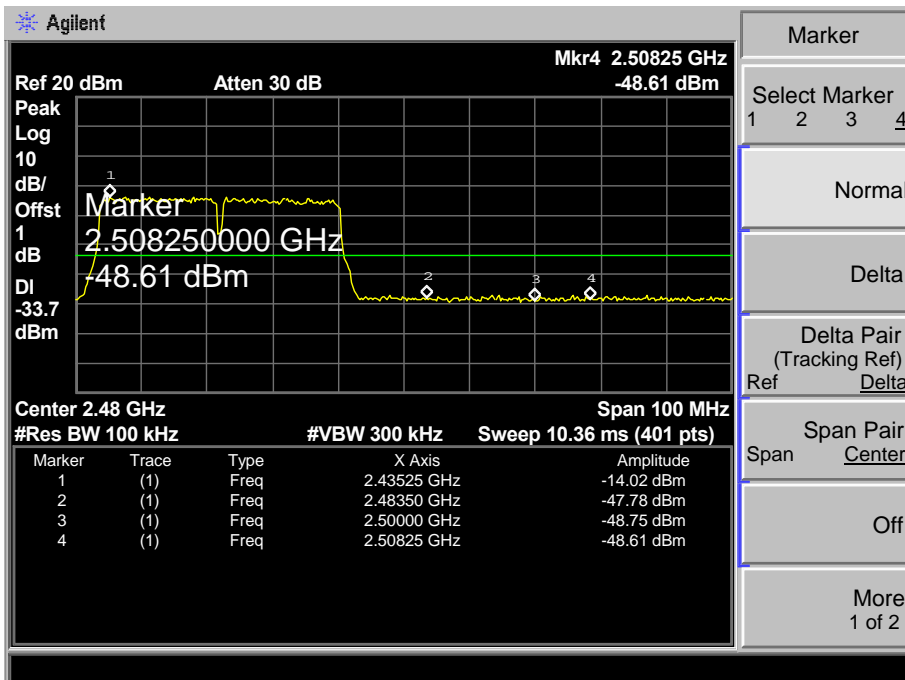
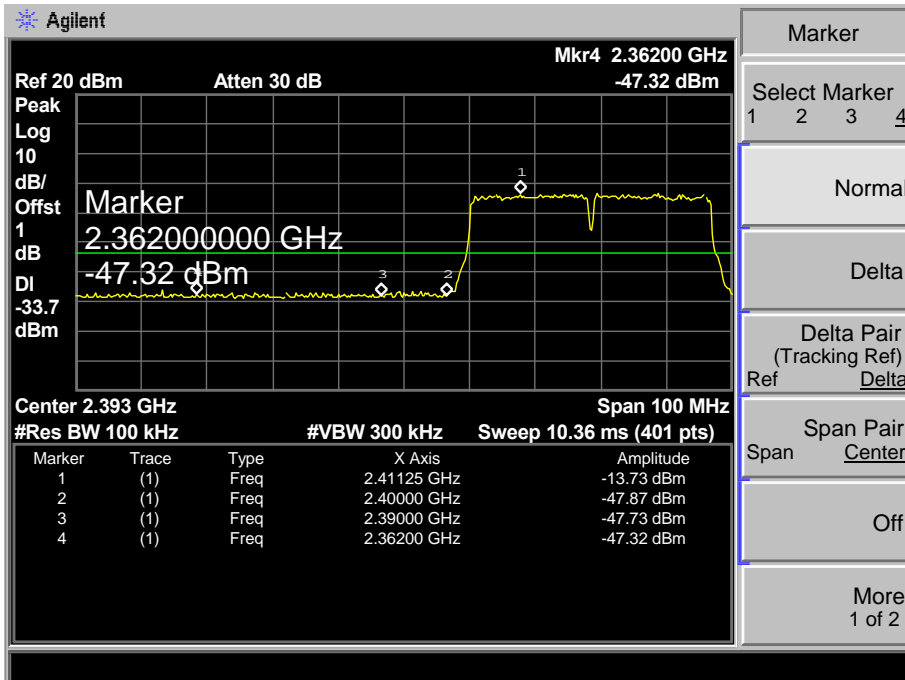
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		

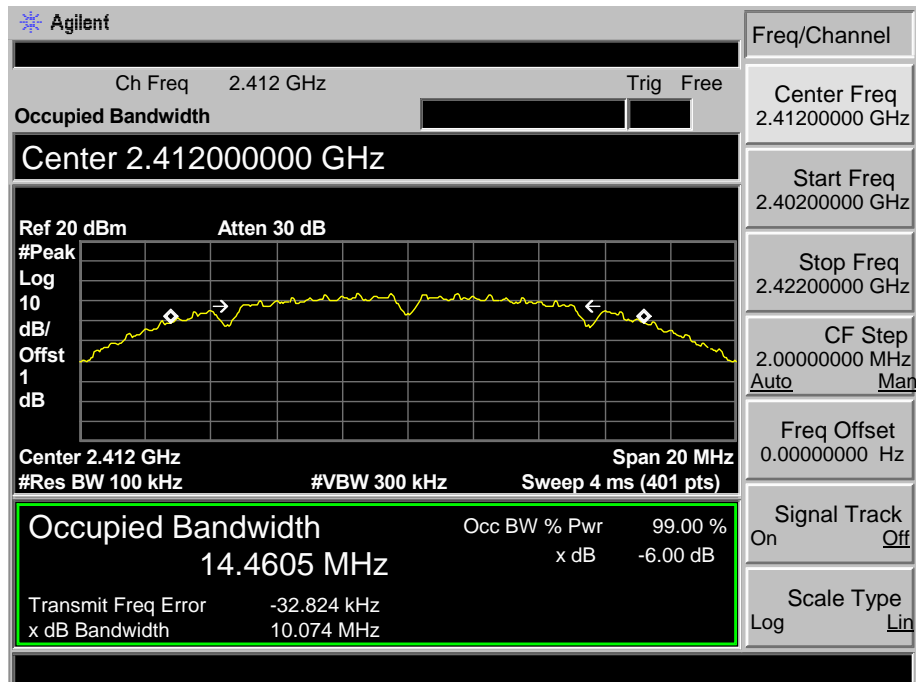


Attachment D-- Bandwidth Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.074	14.4605	≥0.5
2437	10.060	14.4859	
2462	10.061	14.4907	

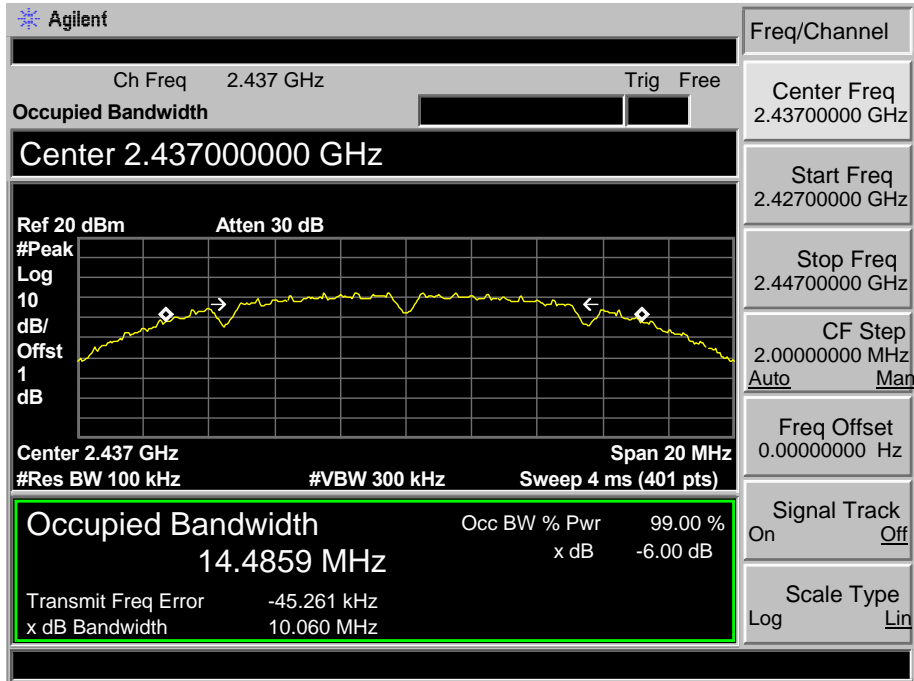
802.11B Mode

2412 MHz



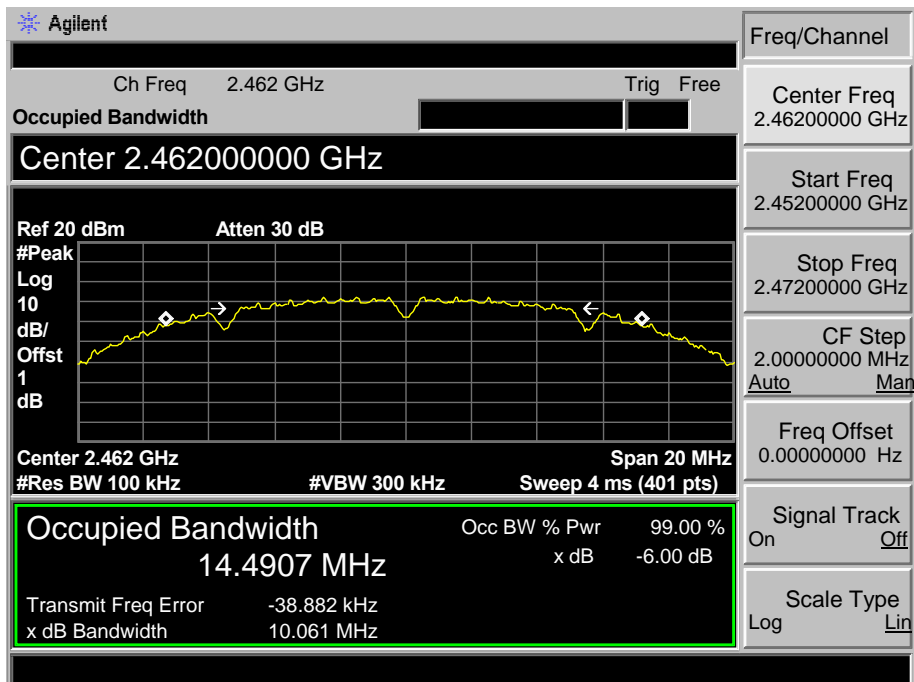
802.11B Mode

2437 MHz



802.11B Mode

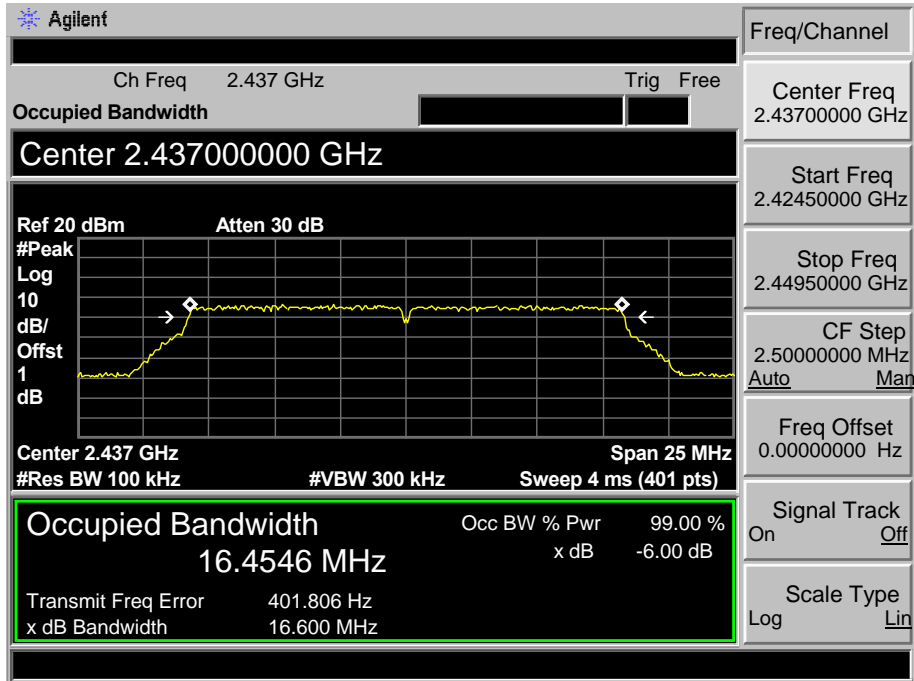
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.446	16.4601	>=0.5
2437	16.600	16.4546	
2462	16.563	16.4391	
802.11G Mode			
2412 MHz			

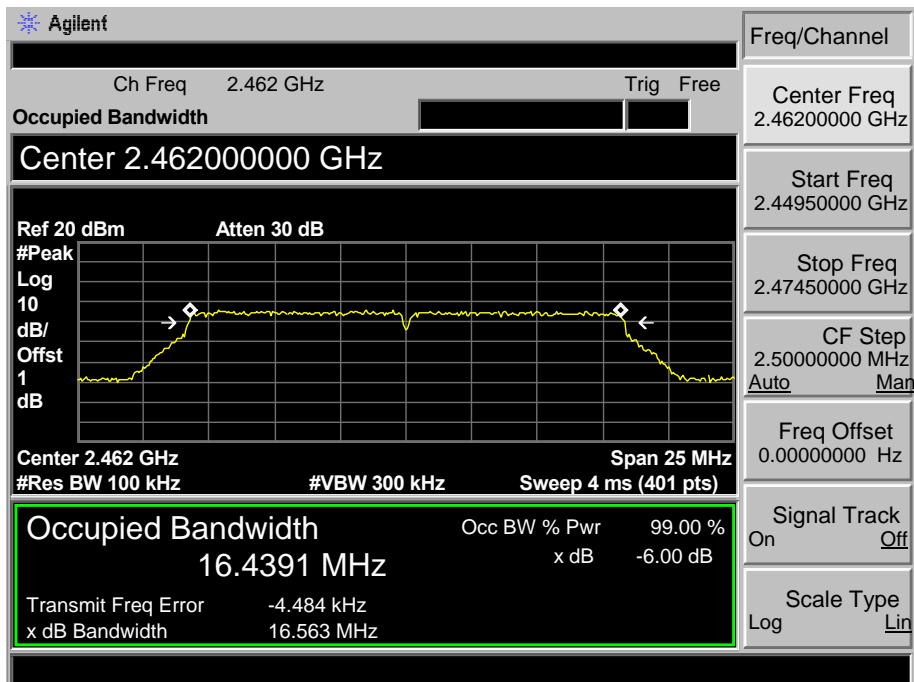
802.11G Mode

2437 MHz



802.11G Mode

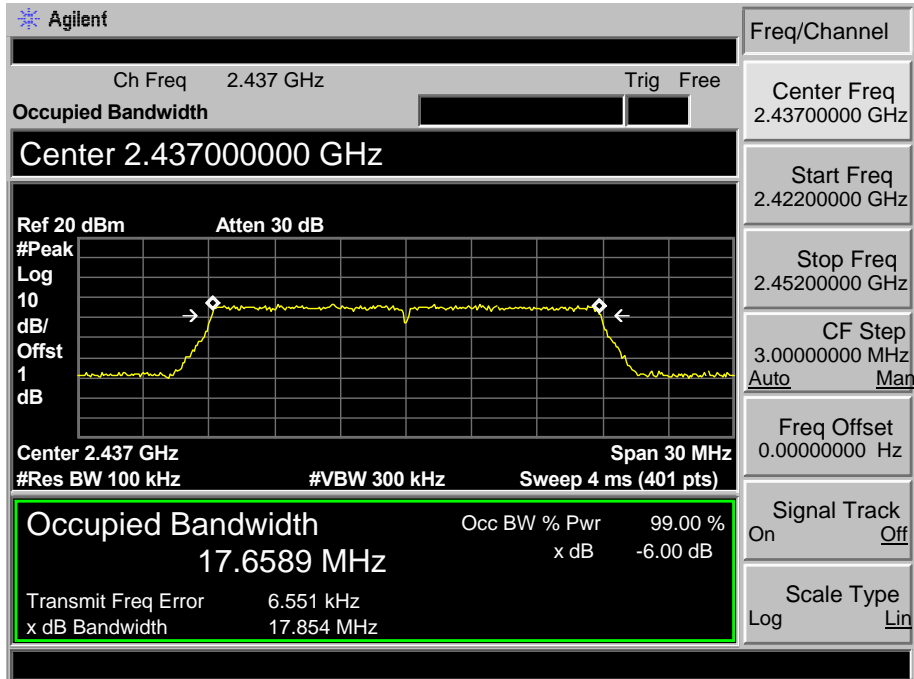
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%															
Test Voltage:	DC 3.7V																	
Test Mode:	TX 802.11N(HT20) Mode																	
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)															
2412	17.867	17.6533	>=0.5															
2437	17.854	17.6589																
2462	17.839	17.6575																
802.11N(HT20) Mode																		
2412 MHz																		
<p>The screenshot shows an Agilent spectrum analyzer interface. The main display is a graph of signal power versus frequency. The center frequency is set to 2.412 GHz. The graph shows a signal with a peak at 2.412 GHz. The occupied bandwidth is 17.6533 MHz, and the 6dB bandwidth is 17.867 MHz. The power level is 99.00%.</p> <table border="1"> <tr> <td>Center 2.41200000 GHz</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td>Occupied Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>17.6533 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>11.066 kHz</td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.867 MHz</td> <td></td> </tr> </table>				Center 2.41200000 GHz	Occ BW % Pwr	99.00 %	Occupied Bandwidth	x dB	-6.00 dB	17.6533 MHz			Transmit Freq Error	11.066 kHz		x dB Bandwidth	17.867 MHz	
Center 2.41200000 GHz	Occ BW % Pwr	99.00 %																
Occupied Bandwidth	x dB	-6.00 dB																
17.6533 MHz																		
Transmit Freq Error	11.066 kHz																	
x dB Bandwidth	17.867 MHz																	

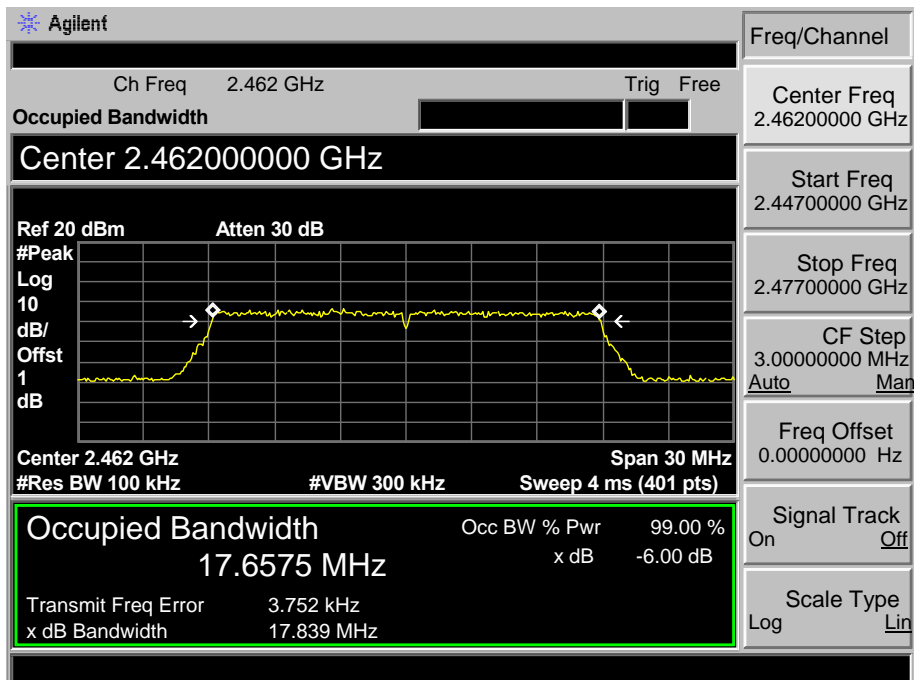
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

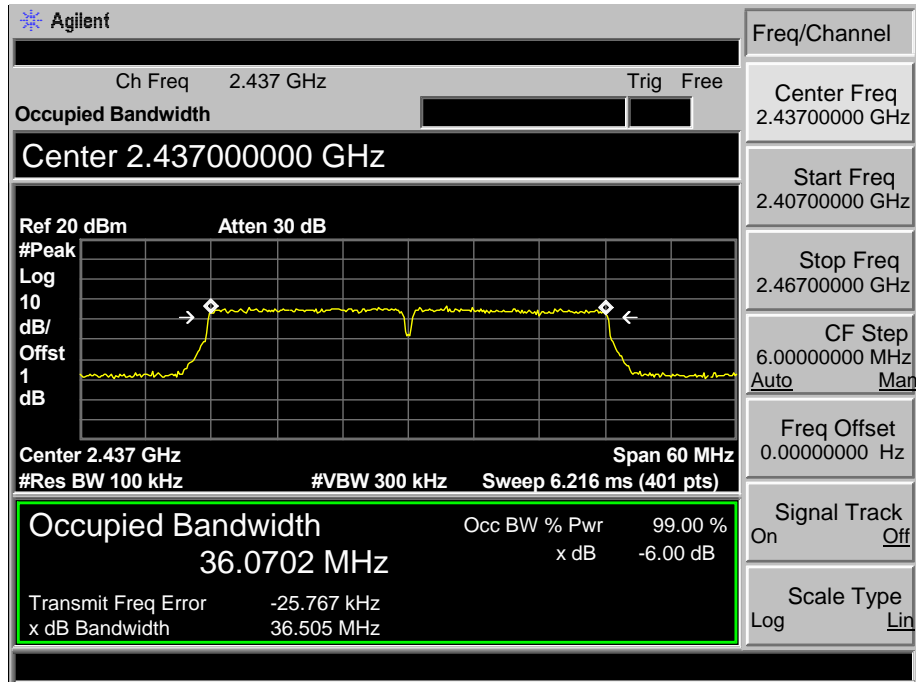
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.555	36.0497	≥0.5
2437	36.505	36.0702	
2452	36.552	36.0906	
802.11N(HT40) Mode			
2422 MHz			

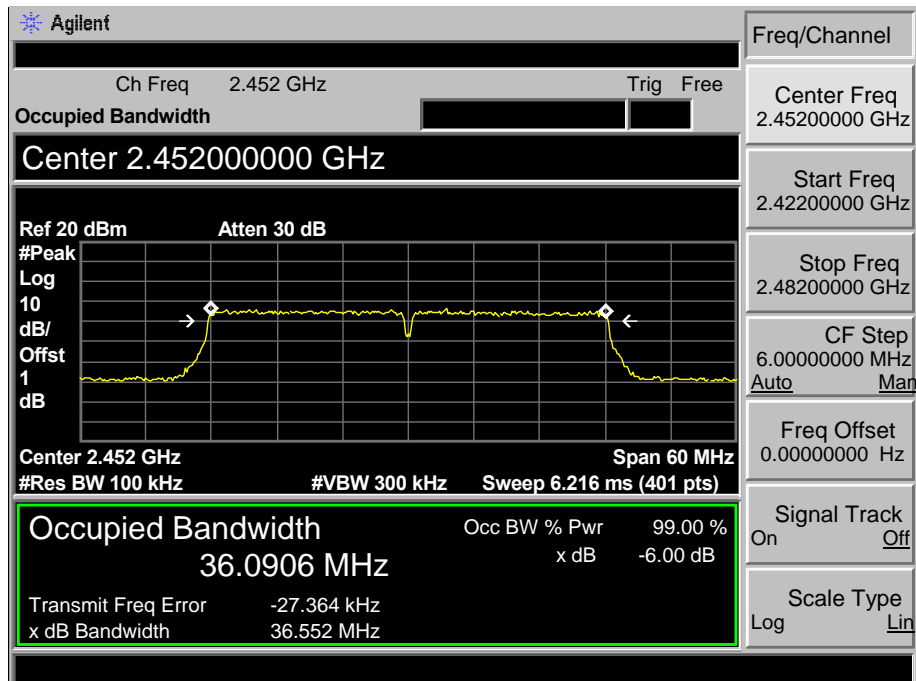
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz

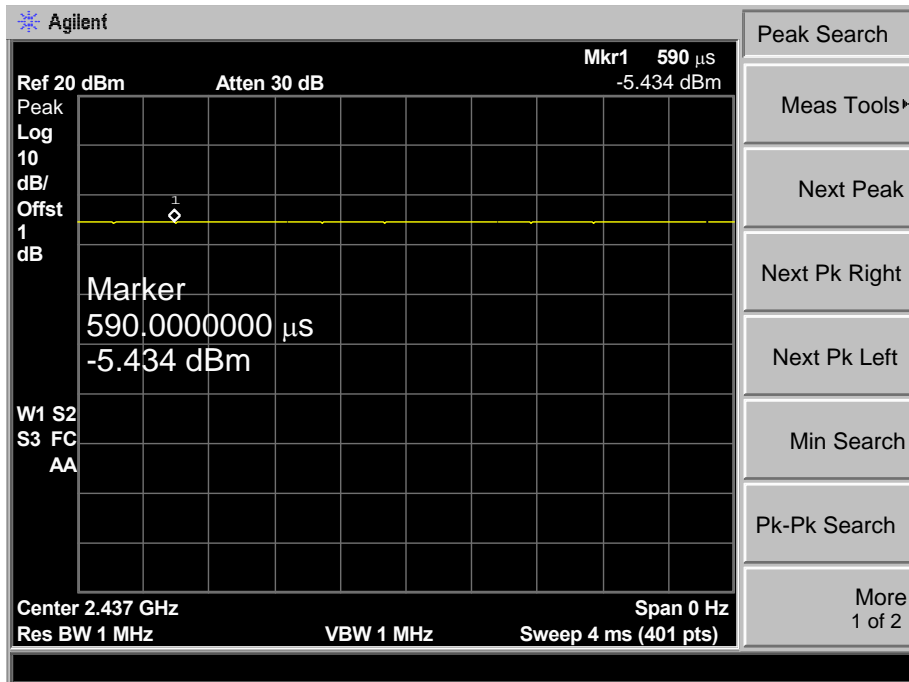


Attachment E-- Peak Output Power Test Data

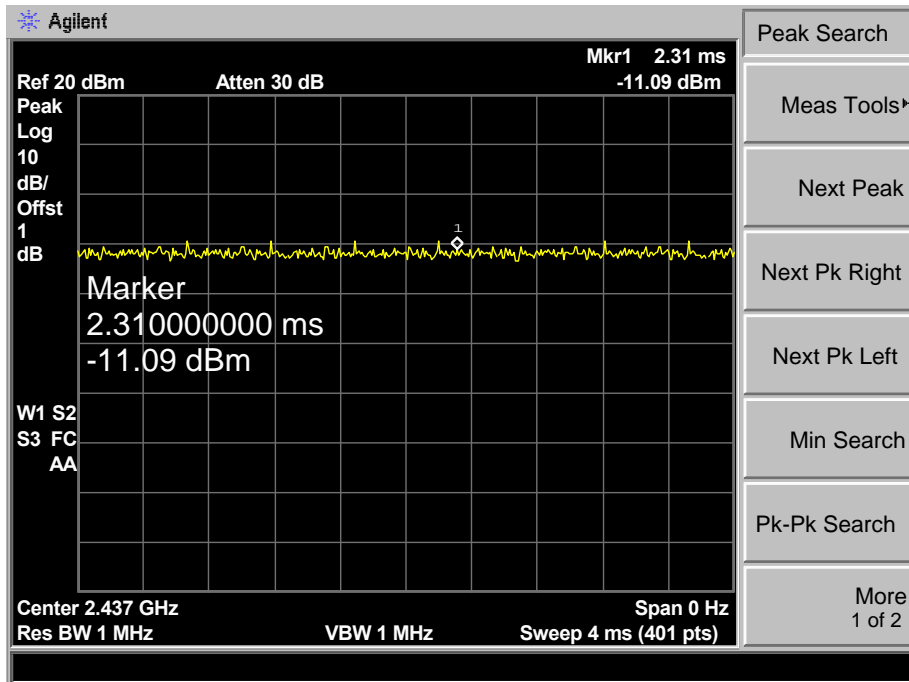
Test Conditions:		Continuous Transmitting Mode	
Temperature:		25 °C	Relative Humidity: 55%
Test Voltage:		DC 3.7V	
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.18	30
	2437	8.44	
	2462	8.78	
802.11g	2412	8.64	
	2437	8.32	
	2462	7.91	
802.11n (HT20)	2412	8.79	
	2437	8.52	
	2462	7.93	
802.11n (HT40)	2422	8.79	
	2437	8.58	
	2452	8.11	
Result: PASS			

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

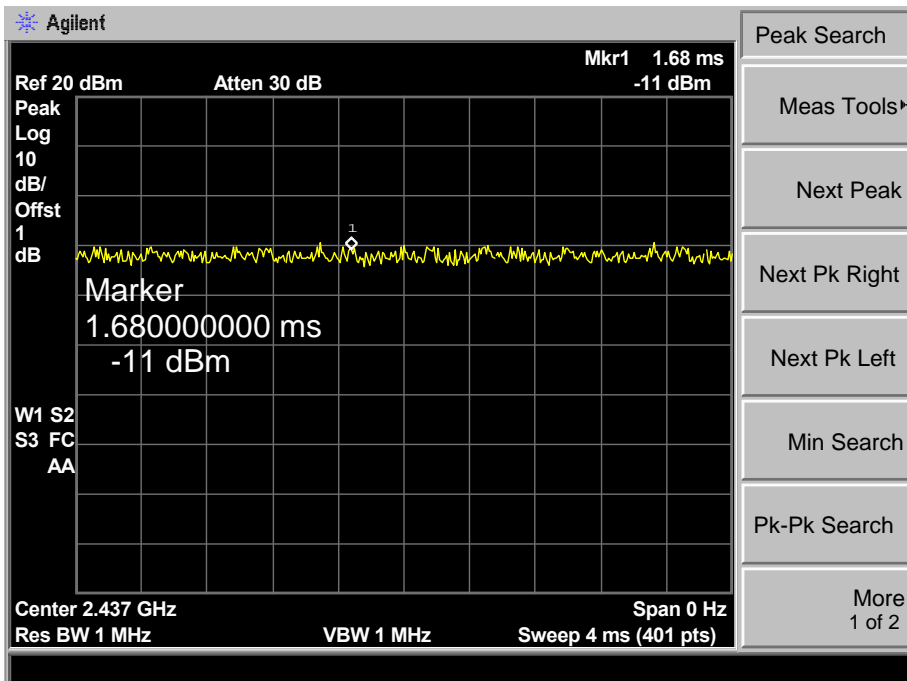
802.11 B Mode 2437 MHz



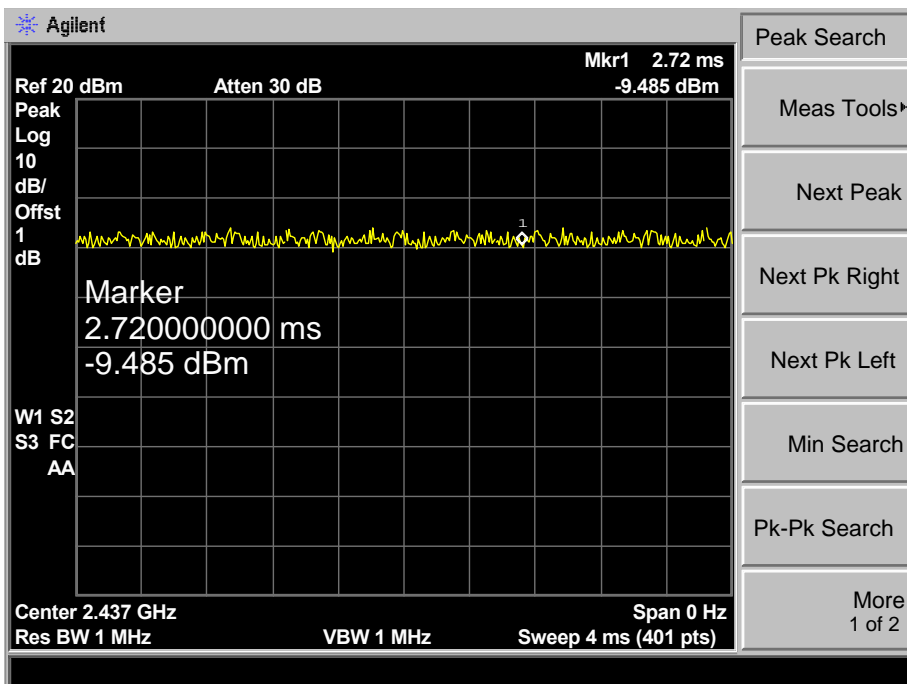
802.11 G Mode 2437 MHz



802.11 N(HT20) Mode 2437 MHz



802.11 N(HT40) Mode 2437 MHz

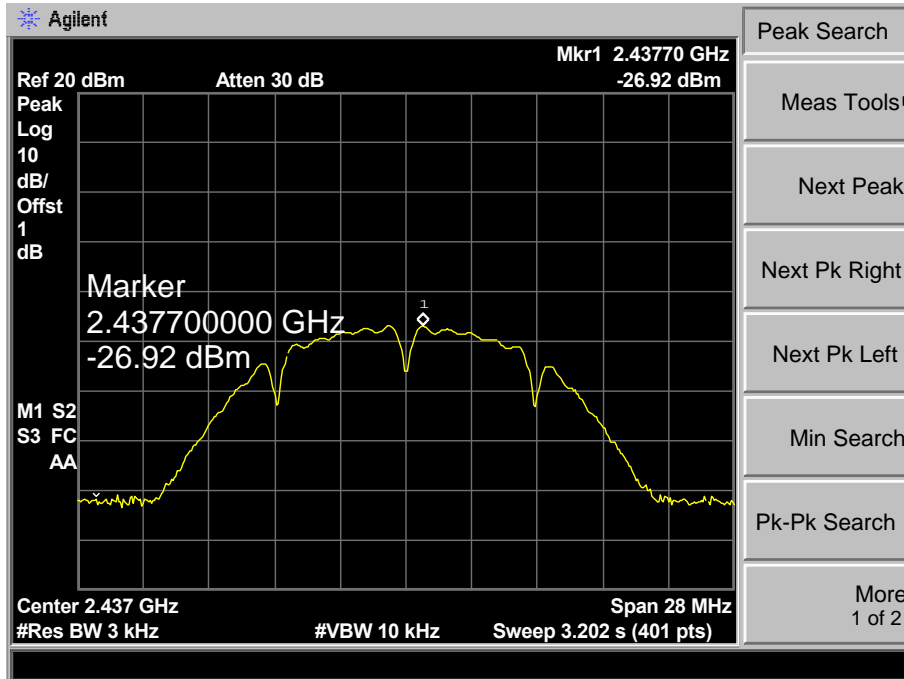


Attachment F-- Power Spectral Density Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11B Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-26.21	8	
2437	-26.92		
2462	-26.75		
802.11B Mode			
2412 MHz			
<p>The figure is a screenshot of an Agilent Power Spectral Density (PSD) plot. The plot shows a signal centered at 2.41277 GHz with a power density of -26.21 dBm. The plot includes a grid, a yellow signal trace, and various measurement parameters such as Ref 20 dBm, Atten 30 dB, Span 28 MHz, and #Res BW 3 kHz. A marker is placed on the signal peak at 2.412770000 GHz with a power density of -26.21 dBm. The plot also shows a sweep time of 3.202 s (401 pts) and a resolution bandwidth of 10 kHz. The plot is displayed on a black background with a white grid.</p>			

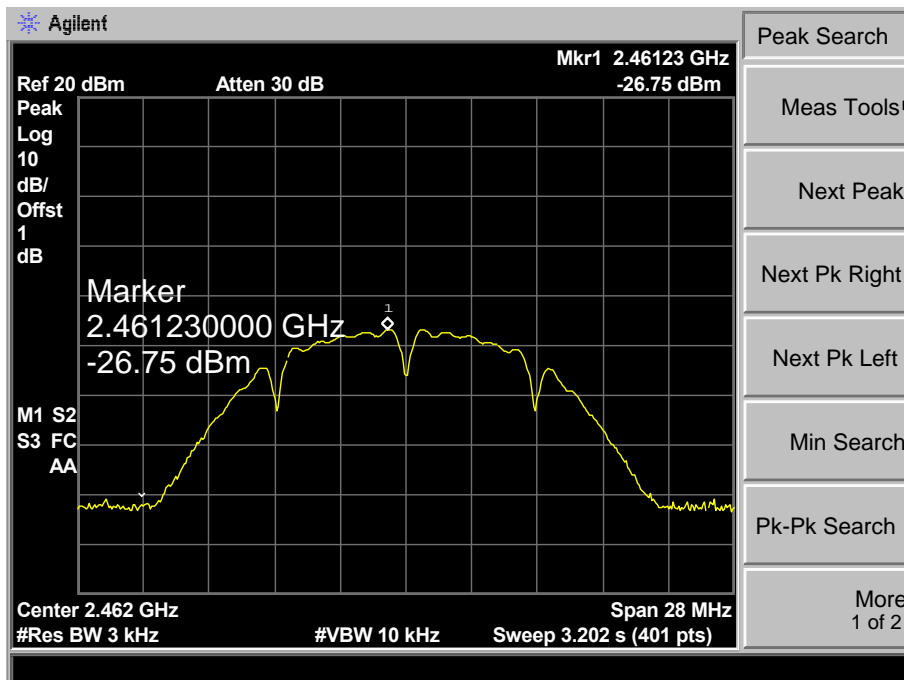
802.11B Mode

2437 MHz



802.11B Mode

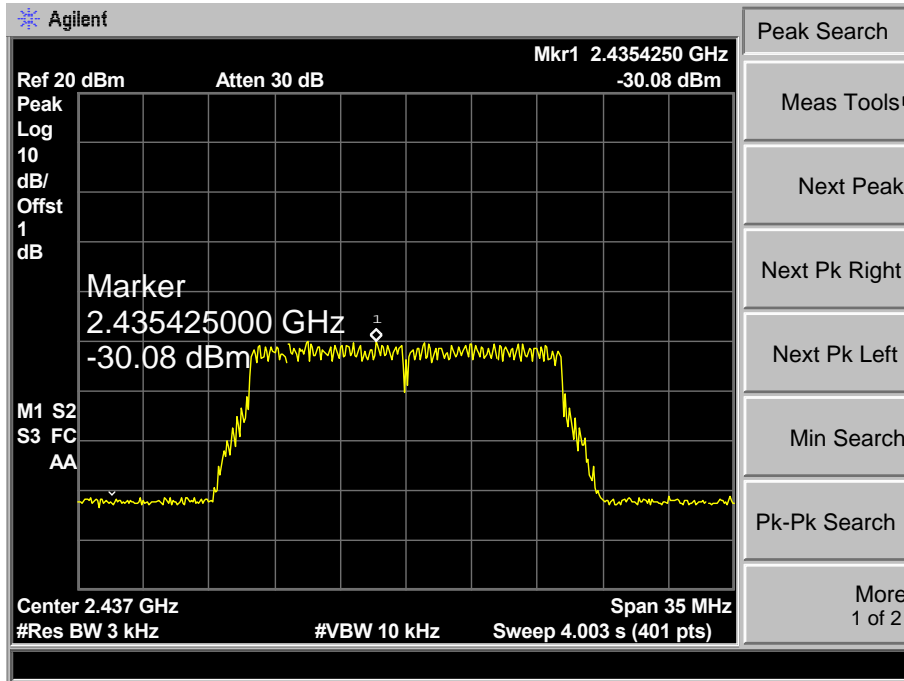
2462 MHz



Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11G Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-29.42	8	
2437	-30.08		
2462	-30.34		
802.11G Mode			
2412 MHz			
<p>The screenshot shows an Agilent spectrum analyzer interface. The main display area shows a signal centered at 2.41042500 GHz with a power density of -29.42 dBm. The reference level is 20 dBm and the attenuation is 30 dB. The resolution bandwidth is 3 kHz and the video bandwidth is 10 kHz. The sweep time is 4.003 s. The interface includes various measurement and search tools on the right side, such as Peak Search, Meas Tools, Next Peak, Next Pk Right, Next Pk Left, Min Search, and Pk-Pk Search.</p>			

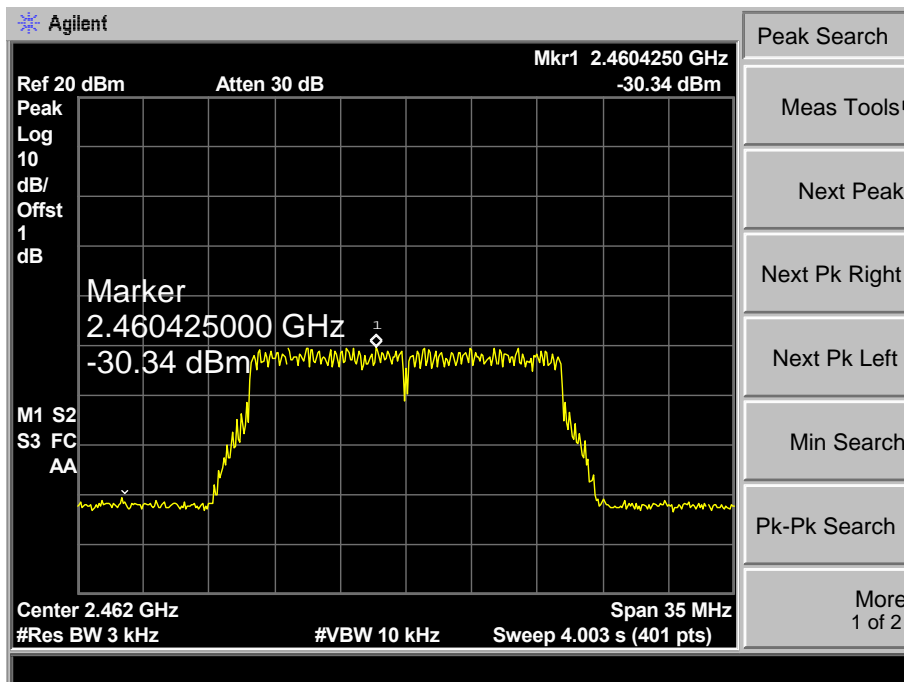
802.11G Mode

2437 MHz



802.11G Mode

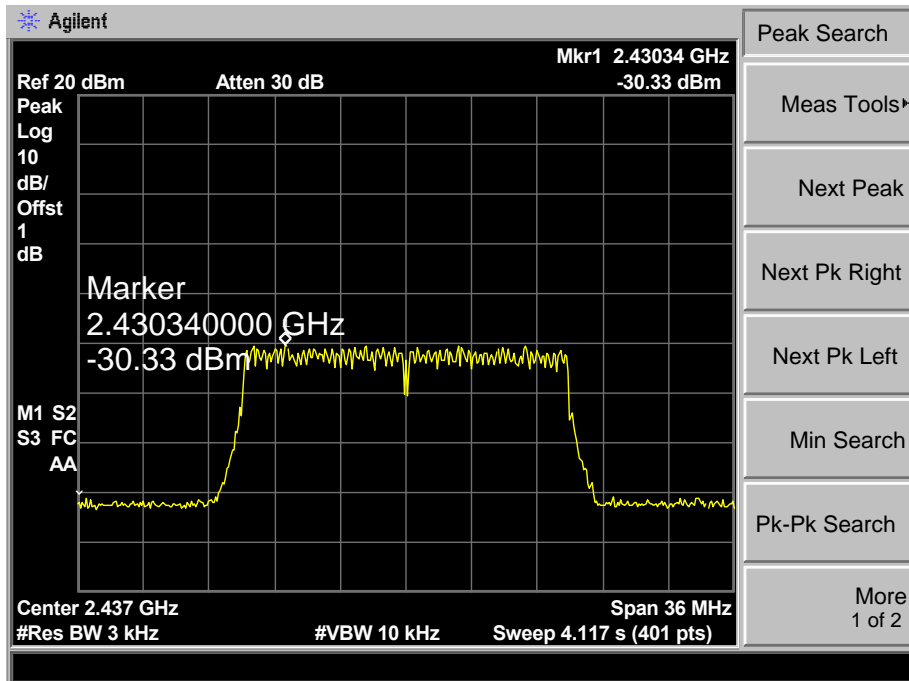
2462 MHz



Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-29.77	8	
2437	-30.33		
2462	-30.42		
802.11N(HT20) Mode			
2412 MHz			
<p>The screenshot shows an Agilent spectrum analyzer interface. The main display area shows a signal centered at 2.41857 GHz with a power density of -29.77 dBm. The reference level is 20 dBm and the attenuation is 30 dB. The resolution bandwidth is 3 kHz and the video bandwidth is 10 kHz. The span is 36 MHz. The center frequency is 2.412 GHz. The sweep time is 4.117 s (401 pts). The interface includes various measurement and search tools on the right side, such as Peak Search, Meas Tools, Next Peak, Next Pk Right, Next Pk Left, Min Search, Pk-Pk Search, and More (1 of 2).</p>			

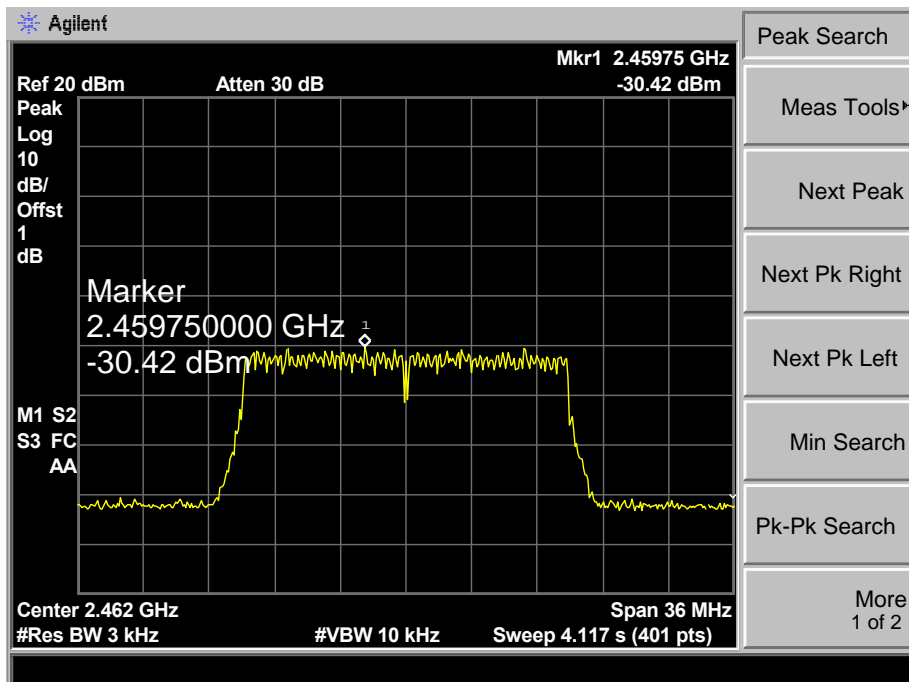
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

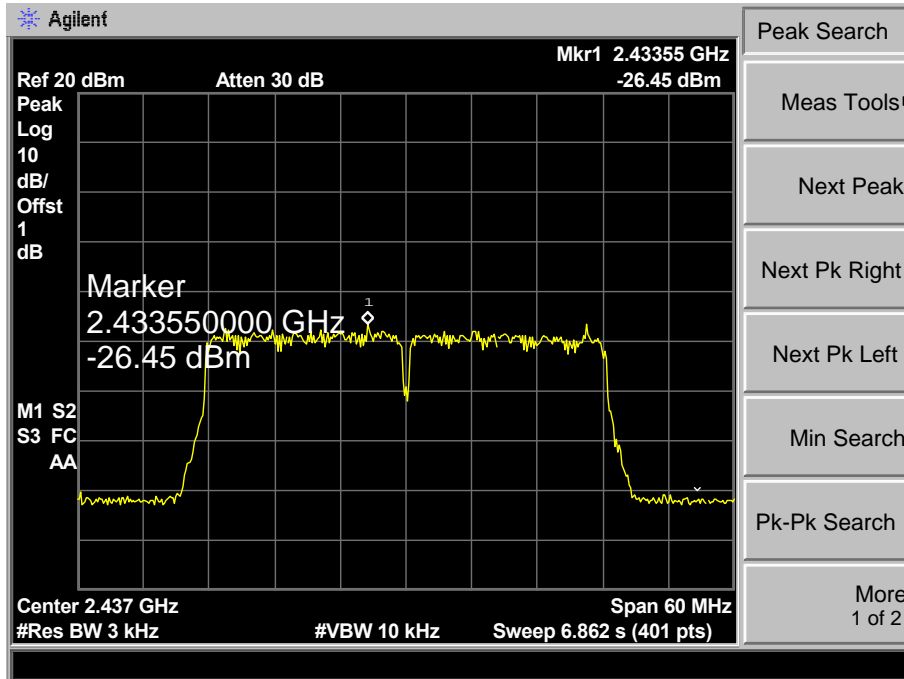
2462 MHz



Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2422	-26.35	8	
2437	-26.45		
2452	-26.15		
802.11N(HT40) Mode			
2422 MHz			
<p>The screenshot shows a spectrum analyzer interface with a yellow signal trace. A marker is placed at 2.42980000 GHz, indicating a power density of -26.35 dBm. The display includes a grid, a reference level of 20 dBm, and an attenuation of 30 dB. The center frequency is 2.422 GHz, the span is 60 MHz, and the resolution bandwidth is 3 kHz. The sweep time is 6.862 seconds with 401 points. On the right side, there is a vertical toolbar with buttons for Peak Search, Meas Tools, Next Peak, Next Pk Right, Next Pk Left, Min Search, Pk-Pk Search, and More (1 of 2).</p>			

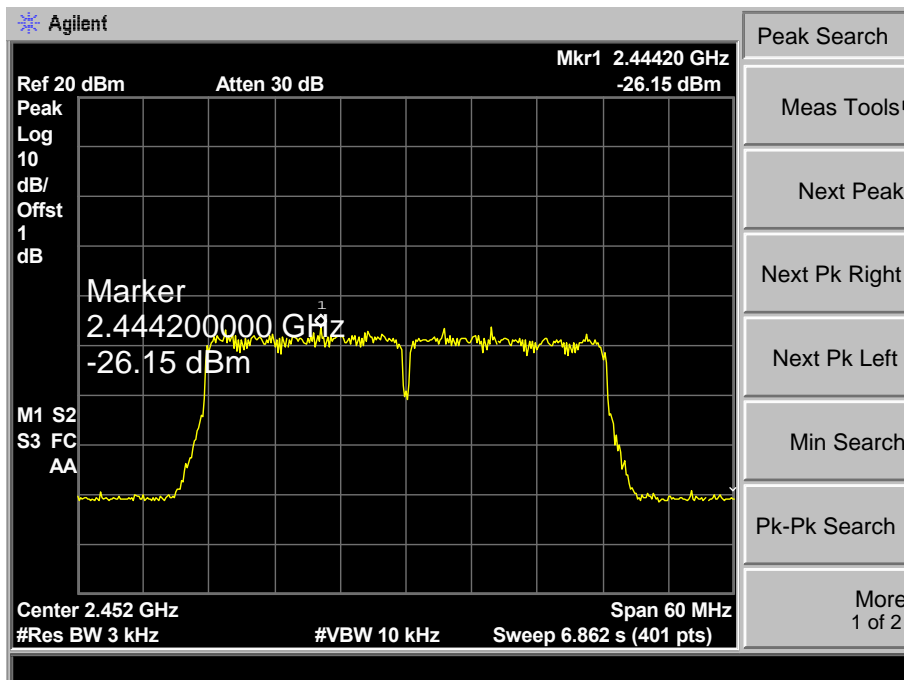
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



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