

FCC Radio Test Report

FCC ID: 2AL8K-H5

Original Grant

Report No. : TB-FCC163269
Applicant : NZS Inc. DBA Clary Icon
Equipment Under Test (EUT)
EUT Name : KK Intelligent Hub/ Interactive Touch Screen
Model No. : H5 OneScreen
Series Model No. : N/A
Brand Name : **OneScreen**
Receipt Date : 2018-12-05
Test Date : 2018-12- 06 to 2018-12-16
Issue Date : 2018-12-17
Standards : FCC Part 15: 2018, Subpart C(15.247)
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

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Engineer : *IVAN SU* Ivan Su
Supervisor : *Ray Lai*
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-RF163269	Rev.01	Initial issue of report	2018-12-17

1. General Information about EUT

1.1 Client Information

Applicant : NZS Inc. DBA Clary Icon
Address : 8168 Miramar Road, San Diego CA 92126, United States
Manufacturer : Shenzhen Konka E-display Co.,Ltd
Address : 22A,KONKA Building,South Technology Road No.12th,High-tech Industrial Park,Nanshan,Shenzhen China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	KK Intelligent Hub/ Interactive Touch Screen			
Models No.	:	H5 OneScreen			
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 see note(3) 802.11n(HT40):7 channels see note(3)		
		Antenna Gain:	5dBi Reverse SMA 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	:	Input: AC 100-240, 50/60Hz Output: DC 12V			
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 D01v05.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Channel List:

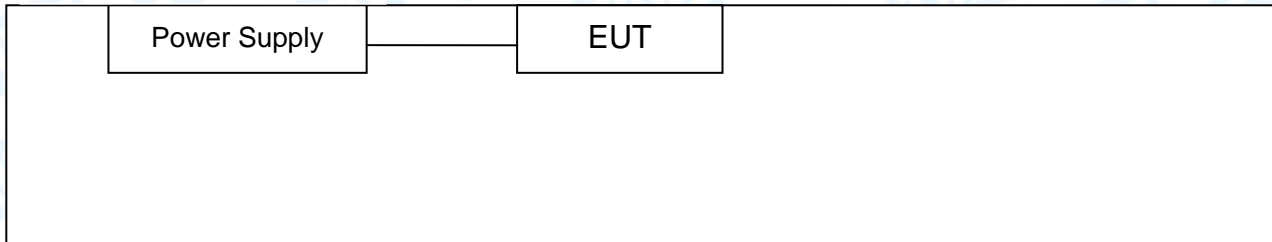
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

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

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
----	----	----	----	

1.5 Description of Test Mode

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

For Conducted Test	
Final Test Mode	Description
Mode 1	TX 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	RtkWiFiTest-v1.8.1		
Channel	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 150kHz to 30MHz	± 3.42 dB ± 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 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.

FCC Accredited Test Site Number: 854351.

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

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

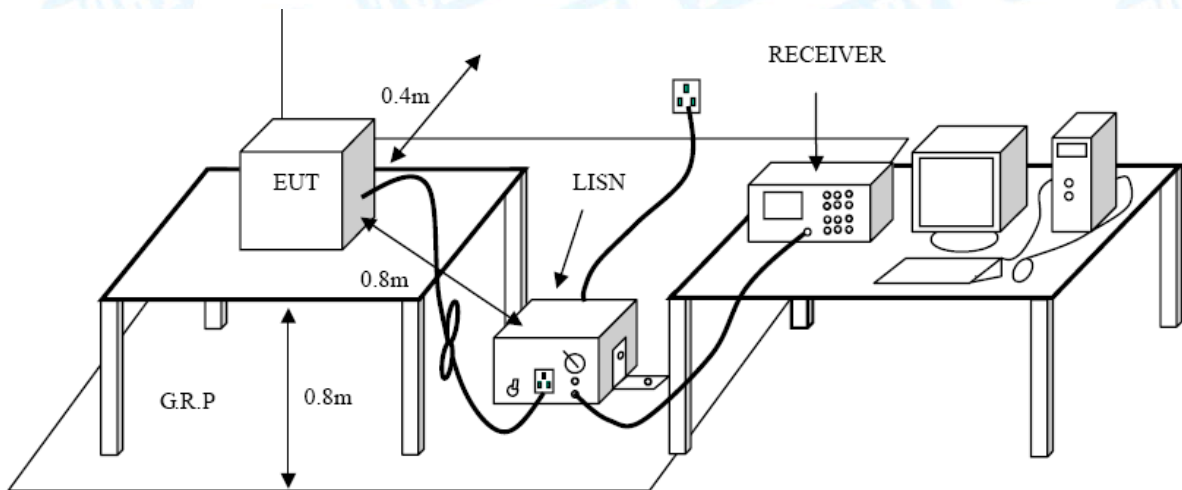
Notes:

(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

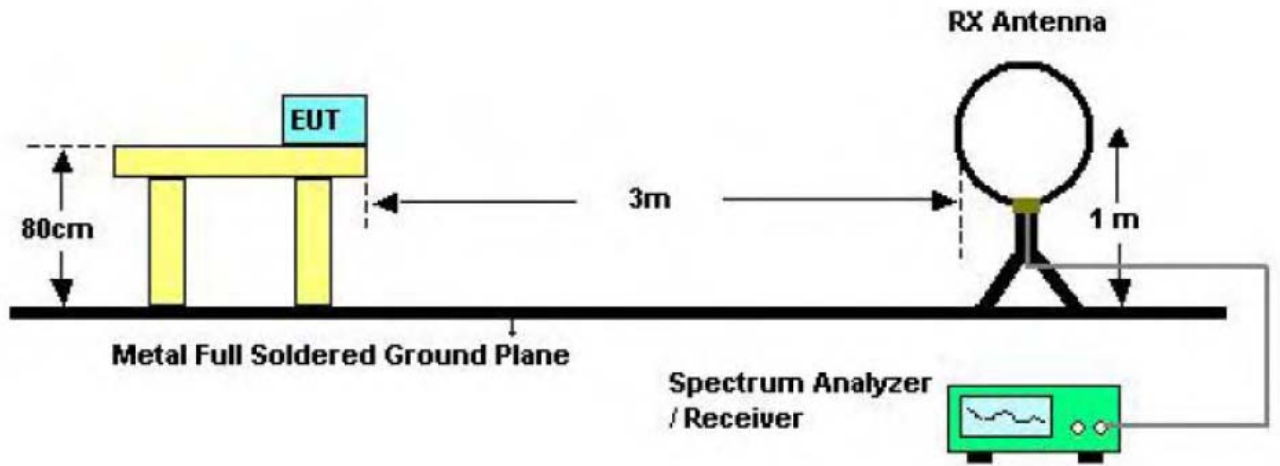
Radiated Emission Limit (Above 1000MHz)

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

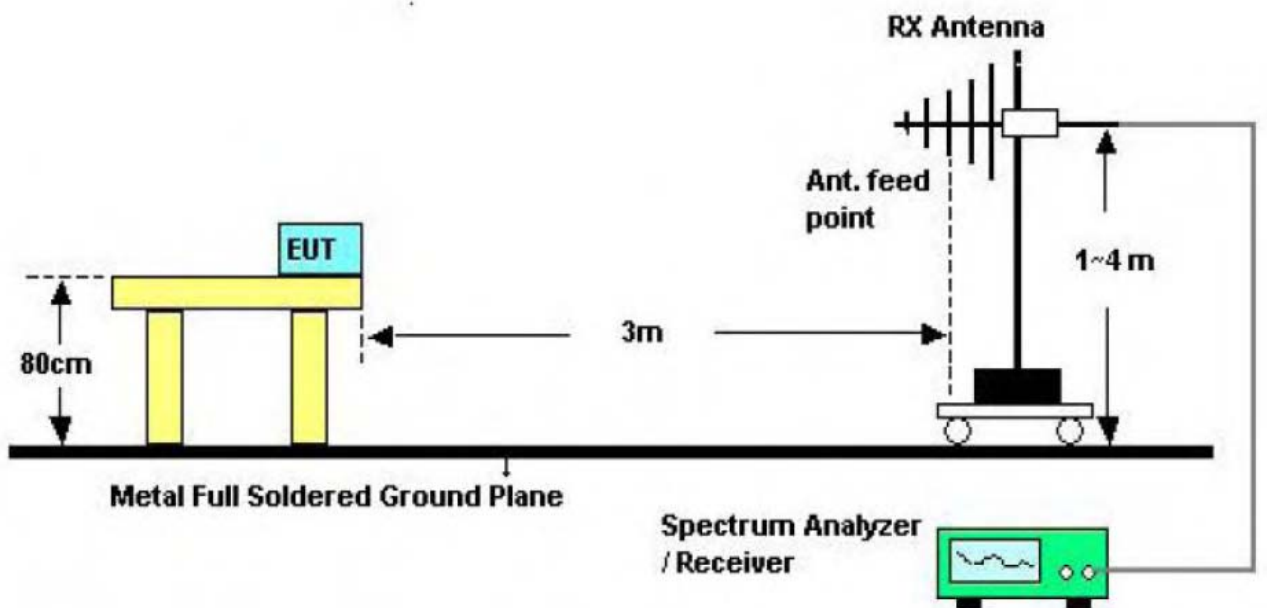
Note:

- (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)

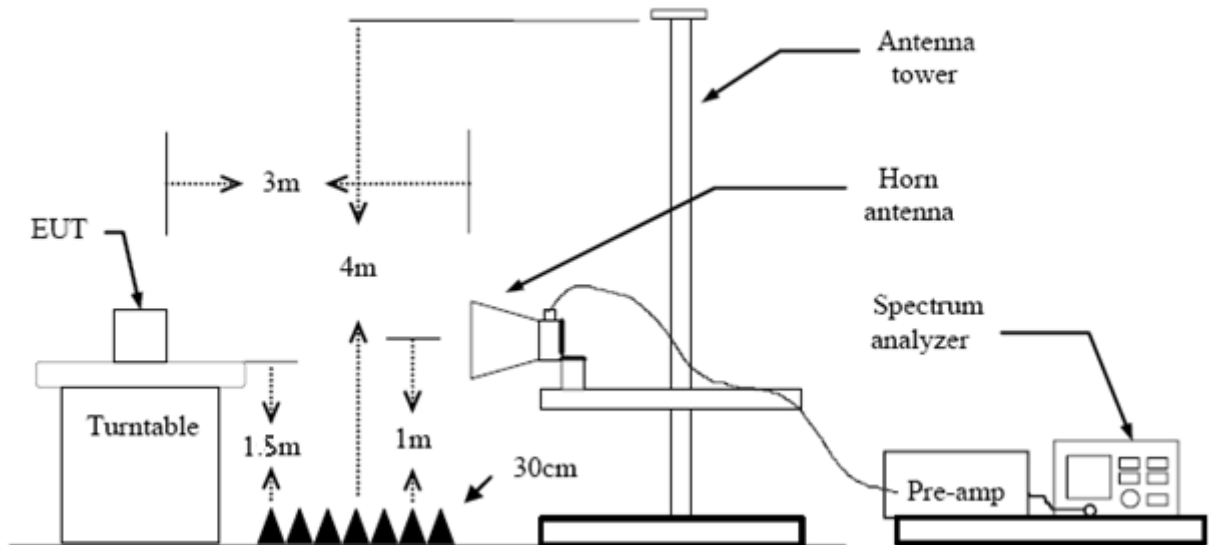
FCC Part 15.209

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

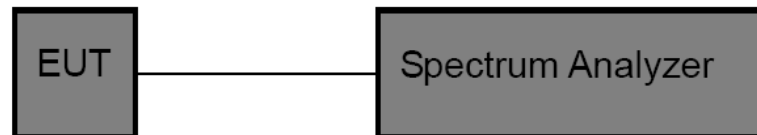
7.1.1 Test Standard

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

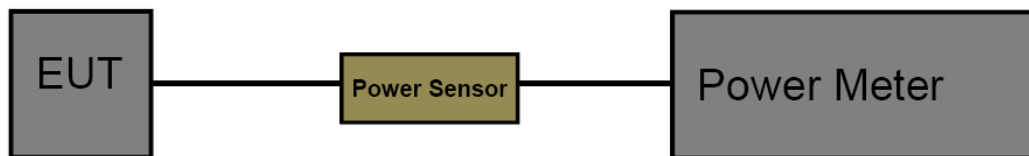
8.1.1 Test Standard

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 15.247 Meas Guidance v05. 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

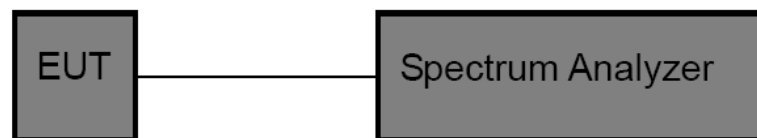
9.1.1 Test Standard

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 15.247 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 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 5dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

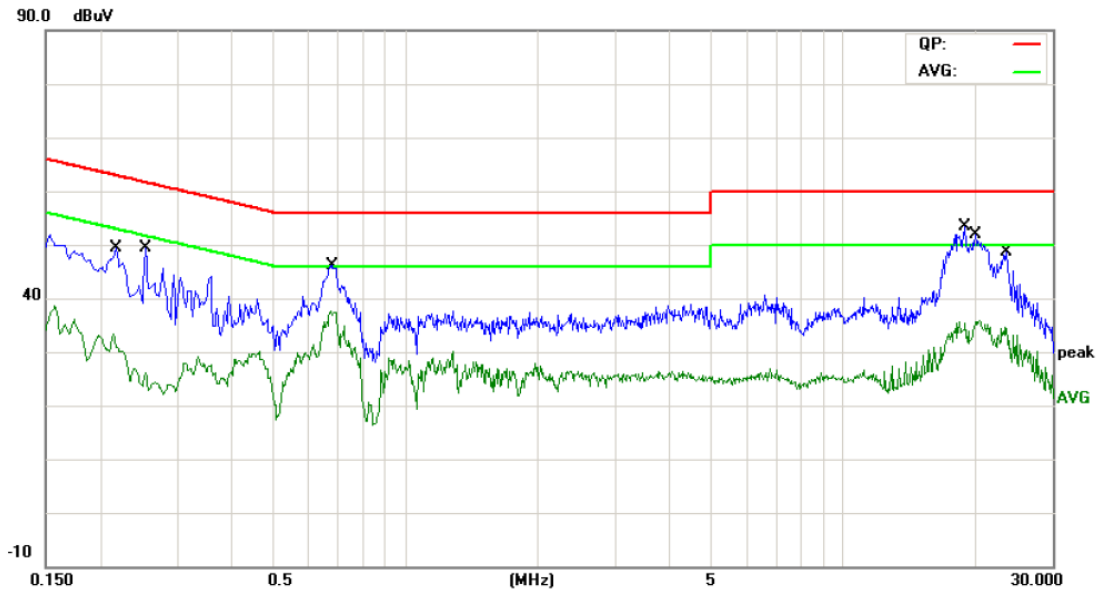
Result

The EUT antenna is Reverse SMA 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/60 Hz		
Terminal:	Line		
Test Mode:	TX 802.11b Mode CH11		
Remark:	Only worse case is reported		

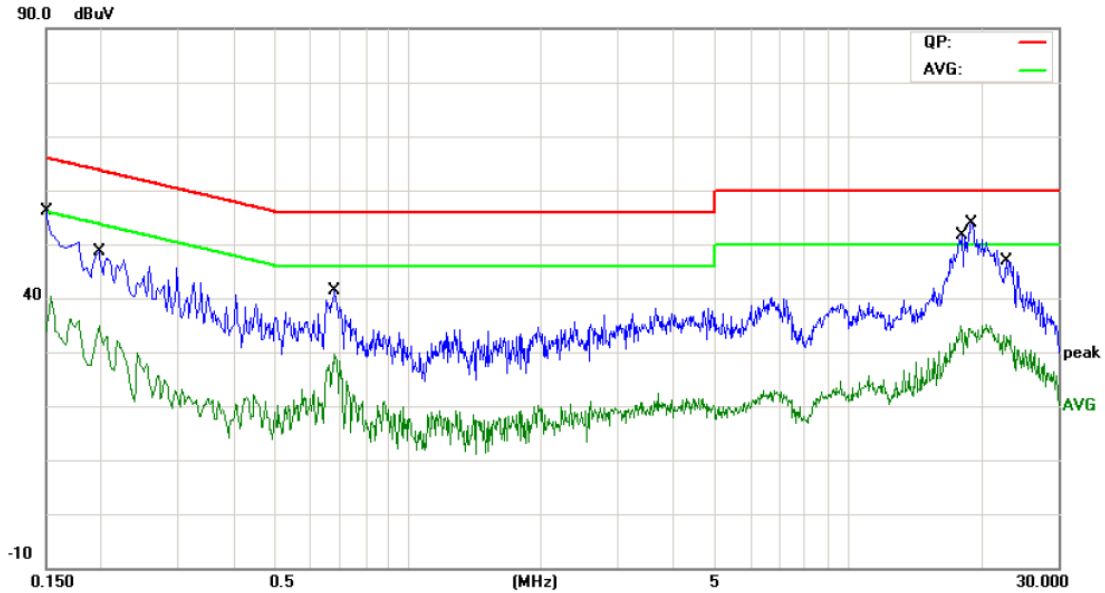


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2180	31.17	9.58	40.75	62.89	-22.14	QP
2		0.2180	17.78	9.58	27.36	52.89	-25.53	AVG
3		0.2540	28.46	9.59	38.05	61.62	-23.57	QP
4		0.2540	15.08	9.59	24.67	51.62	-26.95	AVG
5		0.6820	34.47	9.61	44.08	56.00	-11.92	QP
6	*	0.6820	27.70	9.61	37.31	46.00	-8.69	AVG
7		18.9220	29.97	10.51	40.48	60.00	-19.52	QP
8		18.9220	18.88	10.51	29.39	50.00	-20.61	AVG
9		20.0020	31.84	10.52	42.36	60.00	-17.64	QP
10		20.0020	21.28	10.52	31.80	50.00	-18.20	AVG
11		23.5419	29.26	10.63	39.89	60.00	-20.11	QP
12		23.5419	20.88	10.63	31.51	50.00	-18.49	AVG

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

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Neutral		
Test Mode:	TX 802.11b Mode CH11		
Remark:	Only worse case is reported		

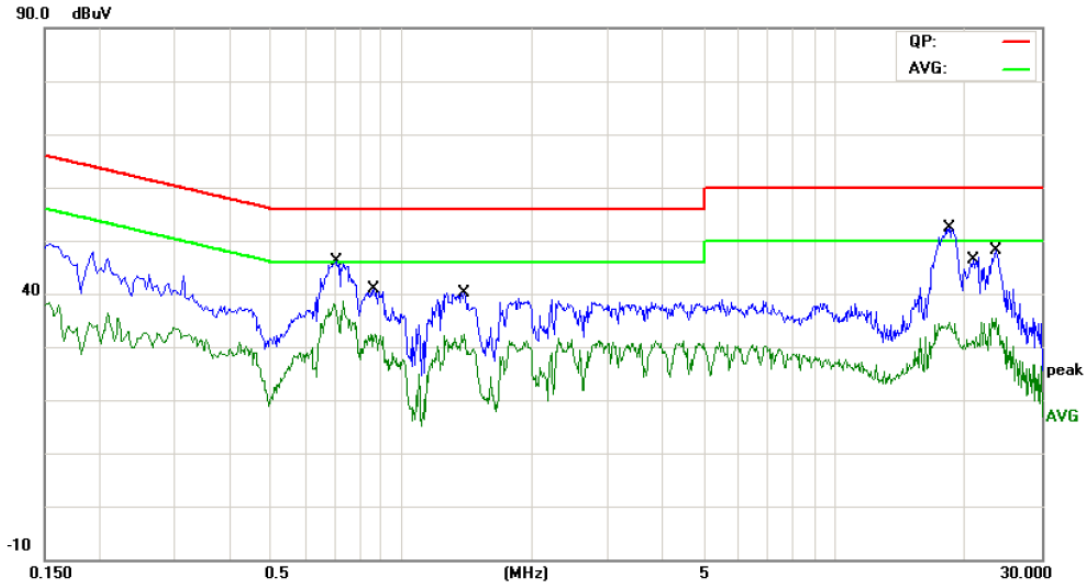


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	38.71	9.64	48.35	65.99	-17.64	QP
2		0.1500	25.61	9.64	35.25	55.99	-20.74	AVG
3		0.1980	33.53	9.65	43.18	63.69	-20.51	QP
4		0.1980	19.59	9.65	29.24	53.69	-24.45	AVG
5		0.6820	26.87	9.59	36.46	56.00	-19.54	QP
6		0.6820	16.66	9.59	26.25	46.00	-19.75	AVG
7		18.1580	30.66	10.64	41.30	60.00	-18.70	QP
8		18.1580	18.89	10.64	29.53	50.00	-20.47	AVG
9	*	19.0380	32.37	10.64	43.01	60.00	-16.99	QP
10		19.0380	19.22	10.64	29.86	50.00	-20.14	AVG
11		22.9860	27.82	10.69	38.51	60.00	-21.49	QP
12		22.9860	18.89	10.69	29.58	50.00	-20.42	AVG

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

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		
Terminal:	Line		
Test Mode:	TX 802.11b Mode CH11		
Remark:	Only worse case is reported		

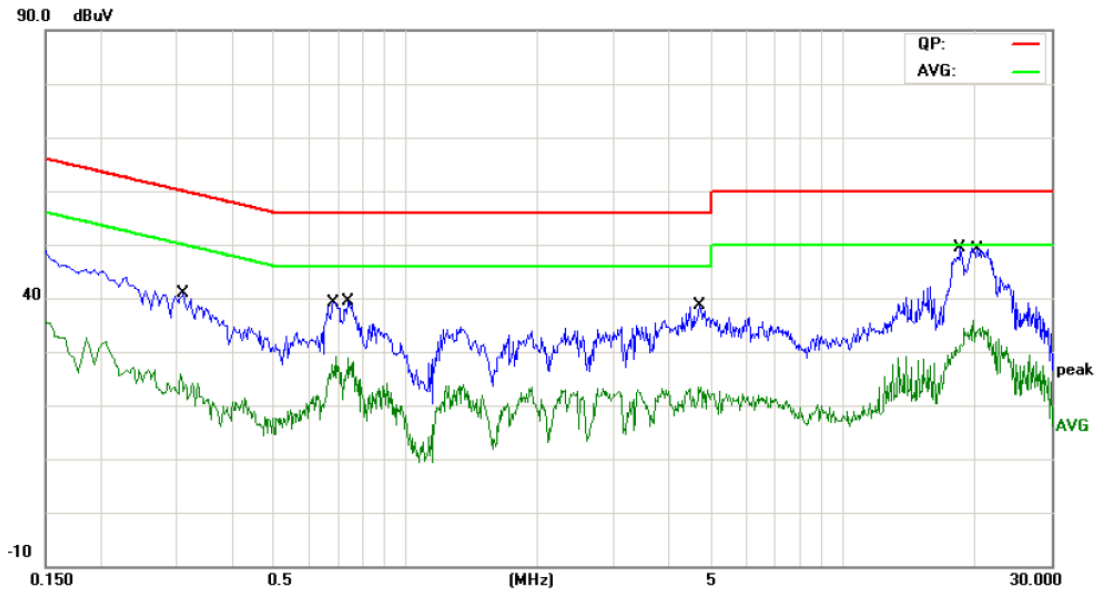


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV	dBuV	dB	
1		0.7060	29.03	9.61	38.64	56.00	-17.36	QP
2		0.7060	20.93	9.61	30.54	46.00	-15.46	AVG
3		0.8620	27.99	9.60	37.59	56.00	-18.41	QP
4	*	0.8620	21.89	9.60	31.49	46.00	-14.51	AVG
5		1.4060	24.74	9.60	34.34	56.00	-21.66	QP
6		1.4060	19.34	9.60	28.94	46.00	-17.06	AVG
7		18.4020	29.69	10.50	40.19	60.00	-19.81	QP
8		18.4020	20.53	10.50	31.03	50.00	-18.97	AVG
9		20.8180	32.88	10.54	43.42	60.00	-16.58	QP
10		20.8180	22.18	10.54	32.72	50.00	-17.28	AVG
11		23.5980	27.49	10.63	38.12	60.00	-21.88	QP
12		23.5980	20.22	10.63	30.85	50.00	-19.15	AVG

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

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		
Terminal:	Neutral		
Test Mode:	TX 802.11b Mode CH11		
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		0.3100	25.57	9.57	35.14	59.97	-24.83	QP
2		0.3100	13.32	9.57	22.89	49.97	-27.08	AVG
3		0.6860	25.47	9.59	35.06	56.00	-20.94	QP
4		0.6860	15.08	9.59	24.67	46.00	-21.33	AVG
5		0.7420	25.46	9.59	35.05	56.00	-20.95	QP
6		0.7420	14.46	9.59	24.05	46.00	-21.95	AVG
7		4.7140	15.02	9.86	24.88	56.00	-31.12	QP
8		4.7140	6.13	9.86	15.99	46.00	-30.01	AVG
9	*	18.6060	30.32	10.64	40.96	60.00	-19.04	QP
10		18.6060	20.11	10.64	30.75	50.00	-19.25	AVG
11		20.2900	26.96	10.65	37.61	60.00	-22.39	QP
12		20.2900	15.86	10.65	26.51	50.00	-23.49	AVG

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

Emission Level= Read Level+ Correct Factor

Remark: All modes and channels have been tested and only listed WiFi link mode that is worst data

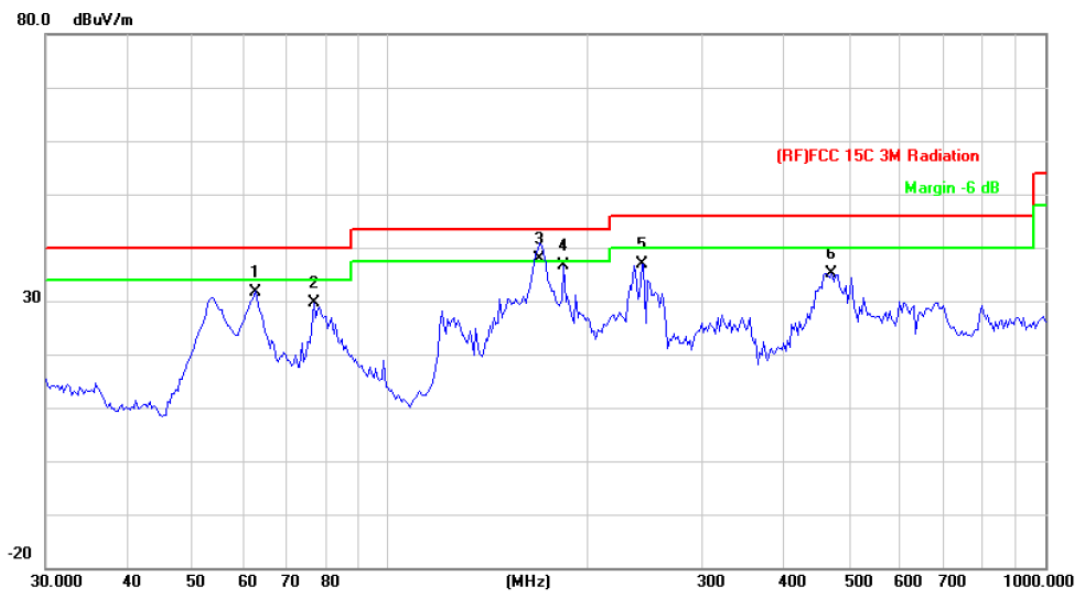
Attachment B-- Radiated Emission and Restricted Bands Requirement Test Data

9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

30MHz~1GHz

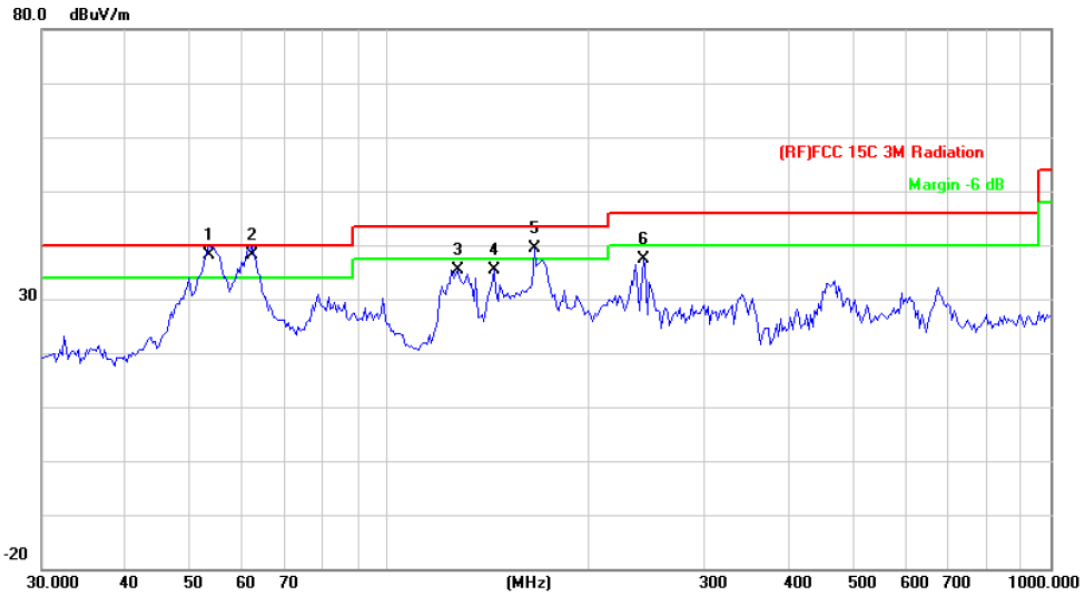
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	Below 1GHz test data. This report only shall the worst case mode for TX IEEE 802.11b 2462MHz.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		62.6507	55.89	-24.14	31.75	40.00	-8.25	QP
2		76.7808	52.45	-22.84	29.61	40.00	-10.39	QP
3	*	169.5990	58.54	-20.54	38.00	43.50	-5.50	QP
4		184.4898	56.58	-20.02	36.56	43.50	-6.94	QP
5		242.5253	54.44	-17.60	36.84	46.00	-9.16	QP
6		472.1760	46.46	-11.38	35.08	46.00	-10.92	QP

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	Below 1GHz test data. This report only shall the worst case mode for TX IEEE 802.11b 2462MHz.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	!	53.6931	61.75	-23.65	38.10	40.00	-1.90	QP
2	*	62.2128	62.37	-24.17	38.20	40.00	-1.80	QP
3		127.2176	57.78	-22.40	35.38	43.50	-8.12	QP
4		144.3348	57.41	-22.03	35.38	43.50	-8.12	QP
5	!	166.0680	60.09	-20.67	39.42	43.50	-4.08	QP
6		242.5253	54.86	-17.60	37.26	46.00	-8.74	QP

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

Above 1GHz

Test Mode: IEEE 802.11b

Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2390	H	48.85	41.69	0.77	49.62	42.46	74	54	-24.38	-11.54
4824	H	43.26	31.27	13.68	56.94	44.95	74	54	-17.06	-9.05
---	H	---	---	---	---	----	---	---	---	---
2390	V	42.95	31.28	0.77	43.72	32.05	74	54	-30.28	-21.95
4824	V	43.51	30.47	13.68	57.19	44.15	74	54	-16.81	-9.85
---	V	---	---	---	---	----	---	---	---	---

Middle channel: 2437 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
4874	H	44.13	30.18	13.86	57.99	44.04	74	54	-16.01	-9.96
---	H	---	---	---	---	----	---	---	---	---
---	H	---	---	---	---	----	---	---	---	---
4874	V	43.37	30.25	13.86	57.23	44.11	74	54	-16.77	-9.89
---	V	---	---	---	---	----	---	---	---	---
---	V	---	---	---	---	----	---	---	---	---

High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2483.5	H	41.35	31.22	1.17	42.52	32.39	74	54	-31.48	-21.61
4924	H	43.3	30.47	14.03	57.33	44.5	74	54	-16.67	-9.5
---	H	---	---	---	---	----	---	---	---	---
2483.5	H	41.41	30.33	1.17	42.58	31.5	74	54	-31.42	-22.5
4924	V	44.46	31.47	14.03	58.49	45.5	74	54	-15.51	-8.5
---	V	---	---	---	---	----	---	---	---	---

Note:

1. Emission Level= Read Level+ Correct Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
4. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Test Mode: IEEE 802.11g

Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2390	H	50.88	39.87	0.77	51.65	40.64	74	54	-22.35	-13.36
4824	H	45.11	31.16	13.68	58.79	44.84	74	54	-15.21	-9.16
---	H	---	---	---	---	---	---	---	---	---
2390	V	51.62.	30.54	0.77	52.39	31.31	74	54	-21.61	-22.69
4824	V	43.30	30.12	13.56	56.98	43.8	74	54	-17.02	-10.2
---	V	---	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
4874	H	43.21	31.53	13.86	57.07	45.39	74	54	-16.93	-8.61
---	H	---	---	---	---	---	---	---	---	---
---	H	---	---	---	---	---	---	---	---	---
4874	V	44.29	30.24	13.86	58.15	44.1	74	54	-15.85	-9.9
---	V	---	---	---	---	---	---	---	---	---
---	V	---	---	---	---	---	---	---	---	---

High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2483.5	H	51.26	38.73	1.17	52.43	39.9	74	54	-21.57	-14.1
4924	H	44.39	30.72	14.15	58.42	44.75	74	54	-15.58	-9.25
---	H	---	---	---	---	---	---	---	---	---
2483.5	H	50.38	36.28	1.17	51.55	37.45	74	54	-22.45	-16.55
4924	V	42.24	30.87	14.15	56.27	44.9	74	54	-17.73	-9.1
---	V	---	---	---	---	---	---	---	---	---

Note:

5. Emission Level= Read Level+ Correct Factor
6. The emission levels of other frequencies are very lower than the limit and not show in test report.
7. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
8. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Test Mode: IEEE 802.11n TH20

Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2390	H	60.6	40.85	0.77	61.37	41.62	74	54	-12.63	-12.38
4824	H	44.08	30.24	13.56	57.64	43.80	74	54	-16.36	-10.2
---	H	---	---	---	---	---	---	---	---	---
2390	V	59.74	43.44	0.77	60.51	44.21	74	54	-13.49	-9.79
4824	V	44.32	30.14	13.56	57.88	43.70	74	54	-16.12	-10.30
---	V	---	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
4874	H	43.28	30.53	13.85	57.13	44.38	74	54	-16.87	-9.62
---	H	---	---	---	---	---	---	---	---	---
---	H	---	---	---	---	---	---	---	---	---
4874	V	44.04	30.34	13.87	57.9	44.2	74	54	-16.1	-9.8
---	V	---	---	---	---	---	---	---	---	---
---	V	---	---	---	---	---	---	---	---	---

High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2483.5	H	56.85	37.01	1.17	58.02	38.18	74	54	-15.98	-15.82
4924	H	45.36	30.46	14.15	59.51	44.61	74	54	-14.49	-9.39
---	H	---	---	---	---	---	---	---	---	---
2483.5	H	58.14	39.36	1.17	59.31	40.53	74	54	-14.69	-13.47
4924	V	43.67	30.77	14.15	57.82	44.92	74	54	-16.18	-9.08
---	V	---	---	---	---	---	---	---	---	---

Note:

9. Emission Level= Read Level+ Correct Factor
10. The emission levels of other frequencies are very lower than the limit and not show in test report.
11. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
12. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Test Mode: IEEE 802.11n TH40

Low channel: 2422 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2390	H	60.19	45.17	0.77	60.96	45.94	74	54	-13.04	-8.06
4824	H	43.63	30.27	13.68	57.31	43.95	74	54	-16.69	-10.05
---	H	---	---	---	---	---	---	---	---	---
2390	V	59.04	44.39	0.77	59.81	45.16	74	54	-14.19	-8.84
4824	V	43.38	30.18	13.68	57.06	43.86	74	54	-16.94	-10.14
---	V	---	---	---	---	---	---	---	---	---

Middle channel: 2437 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
4874	H	43.37	30.29	13.86	57.23	44.15	74	54	-16.77	-9.85
---	H	---	---	---	---	---	---	---	---	---
---	H	---	---	---	---	---	---	---	---	---
4874	V	43.24	30.29	13.86	57.1	44.15	74	54	-16.9	-9.85
---	V	---	---	---	---	---	---	---	---	---
---	V	---	---	---	---	---	---	---	---	---

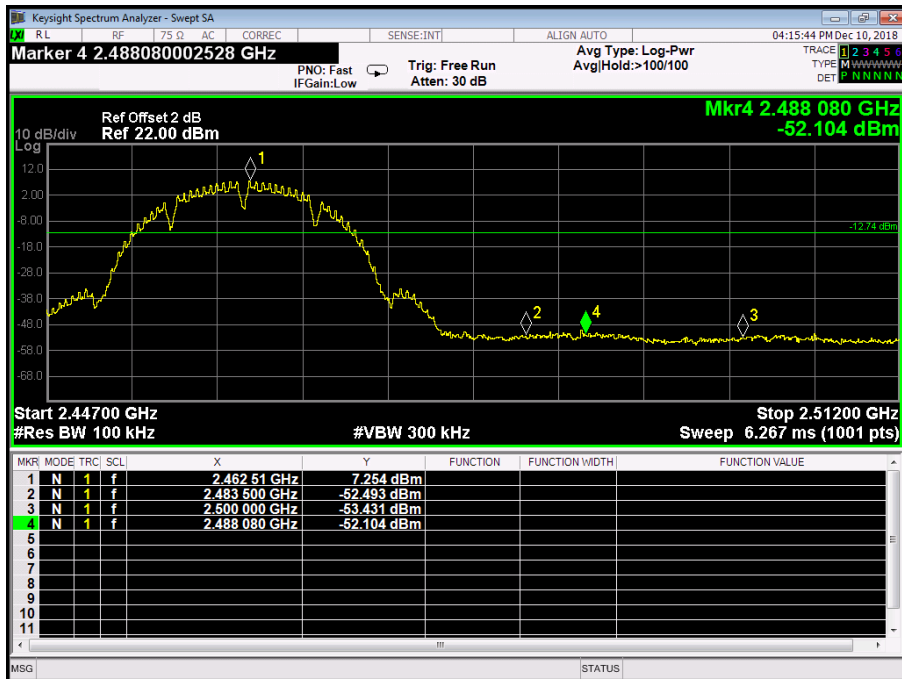
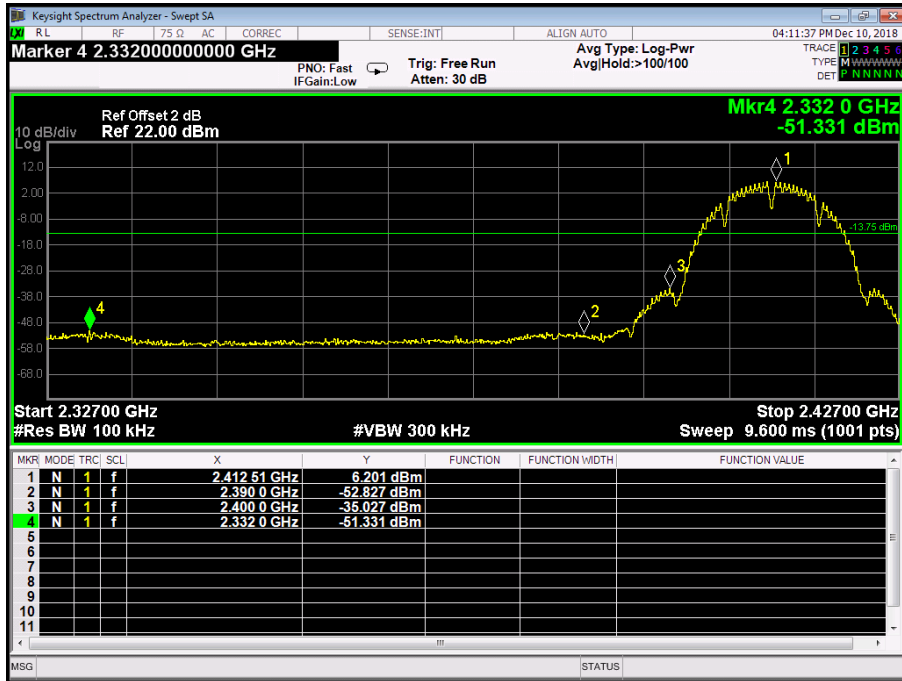
High channel: 2452 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)				
2483.5	H	58.76	42.43	1.17	59.93	43.6	74	54	-14.07	-10.4
4924	H	43.72	30.6	14.03	57.75	44.63	74	54	-16.25	-9.37
---	H	---	---	---	---	---	---	---	---	---
2483.5	H	57.23	41.73	1.17	58.4	42.9	74	54	-15.6	-11.1
4924	V	43.47	30.25	14.03	57.5	44.28	74	54	-16.5	-9.72
---	V	---	---	---	---	---	---	---	---	---

Note:

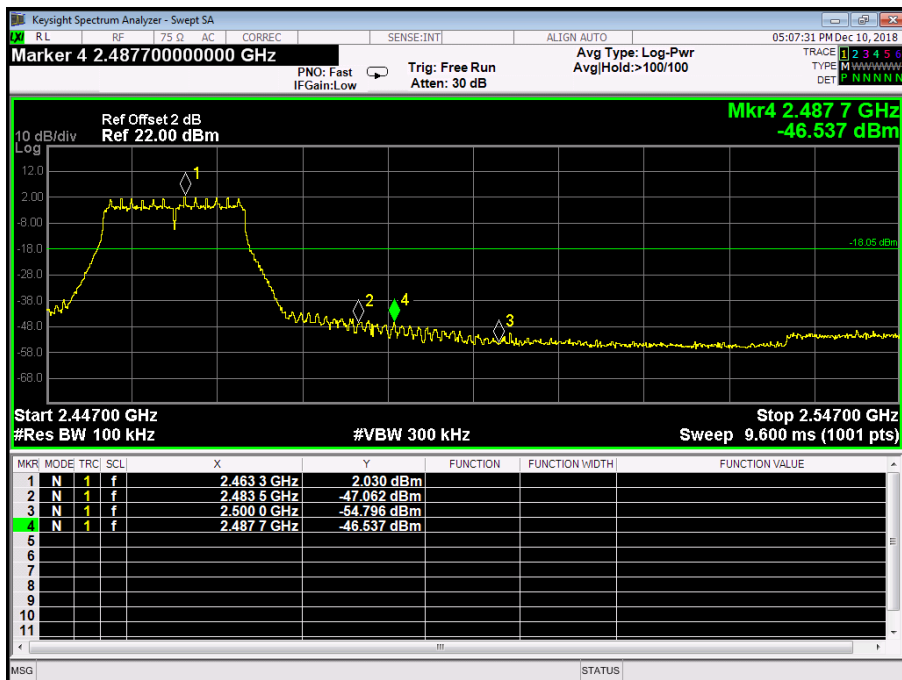
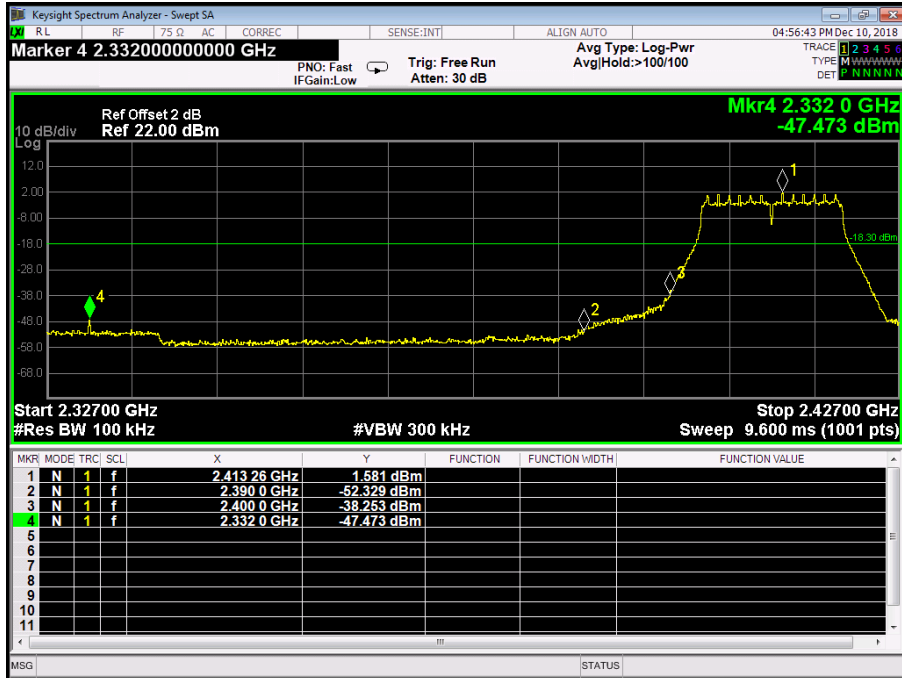
13. Emission Level= Read Level+ Correct Factor
14. The emission levels of other frequencies are very lower than the limit and not show in test report.
15. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
16. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

(1) Conducted Test

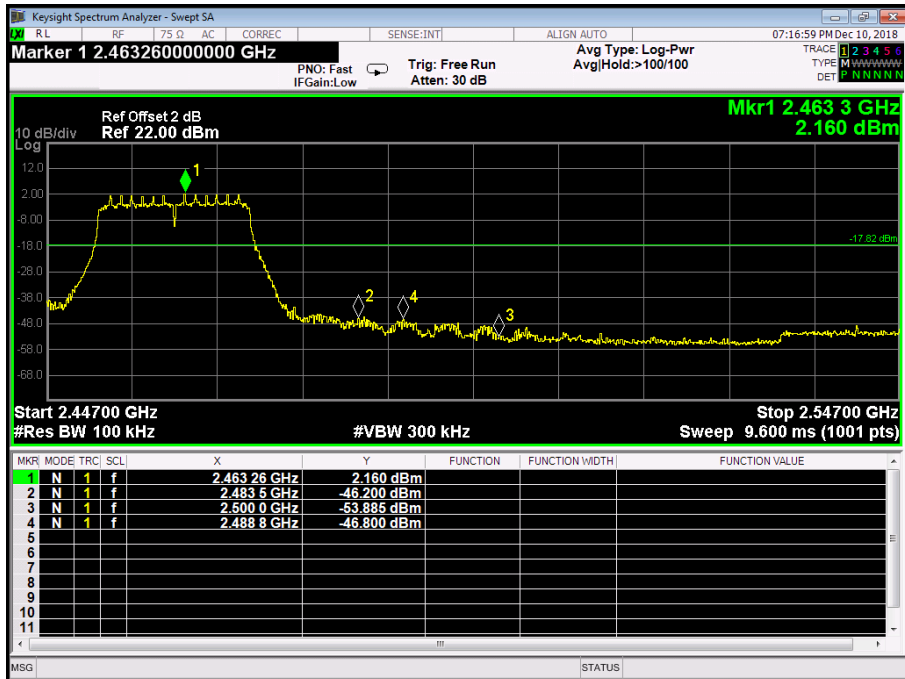
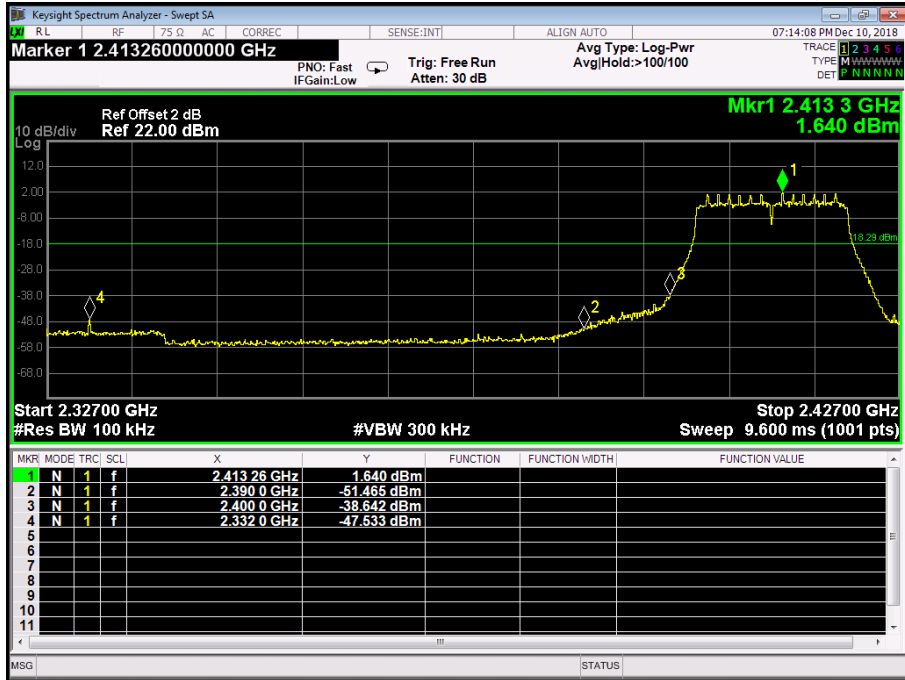
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



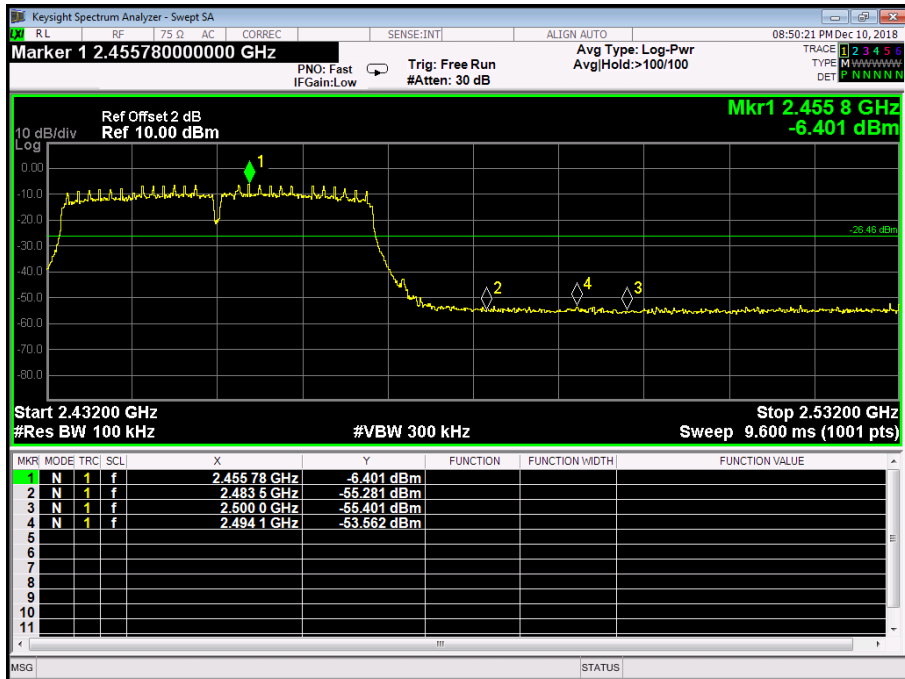
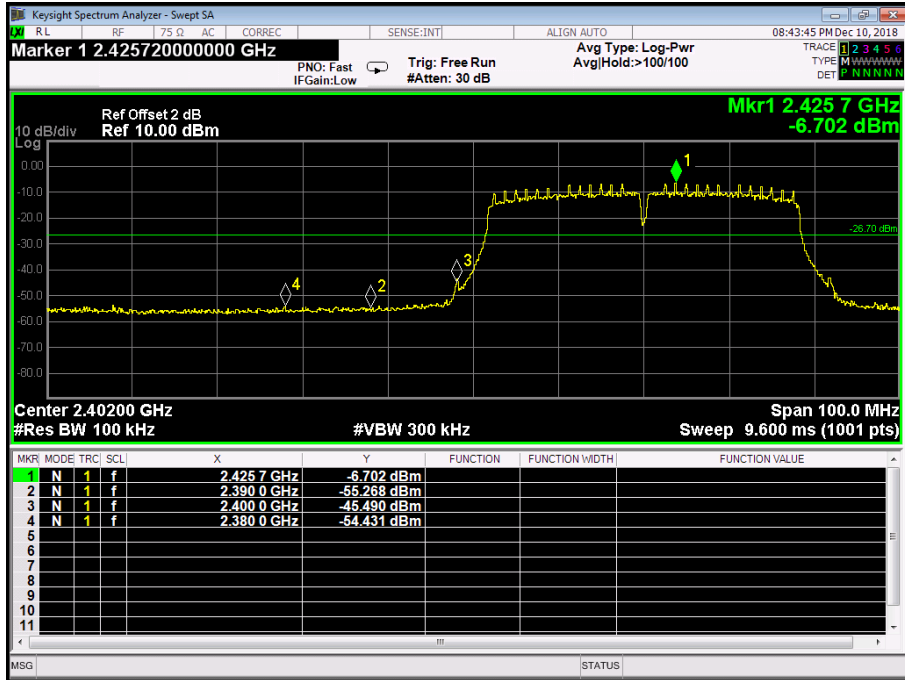
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
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:	AC 120/60Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		

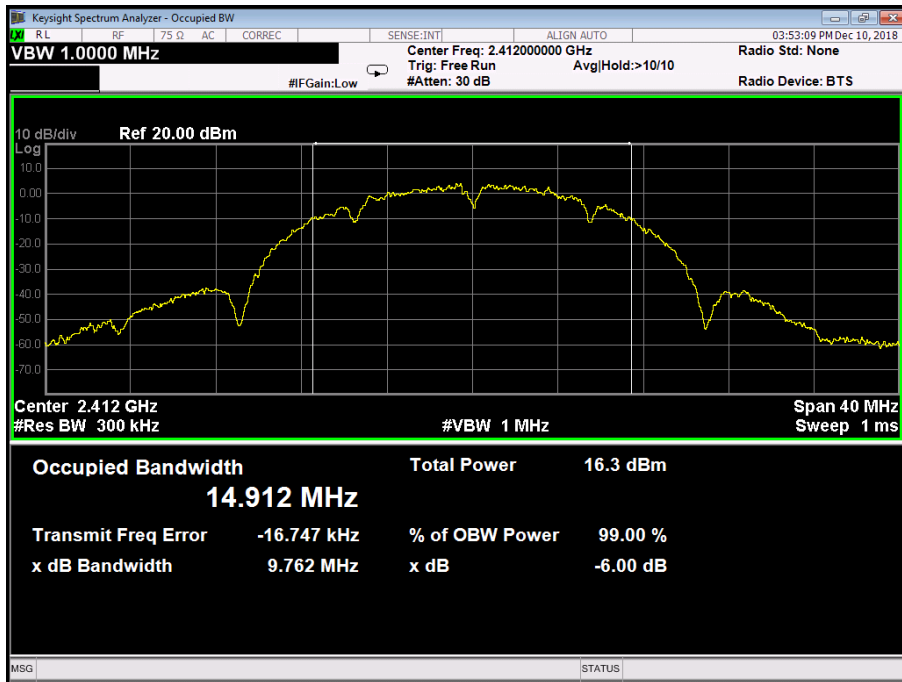


Attachment D-- Bandwidth Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	9.762	14.912	>=0.5
2437	9.881	14.859	
2462	9.926	14.721	

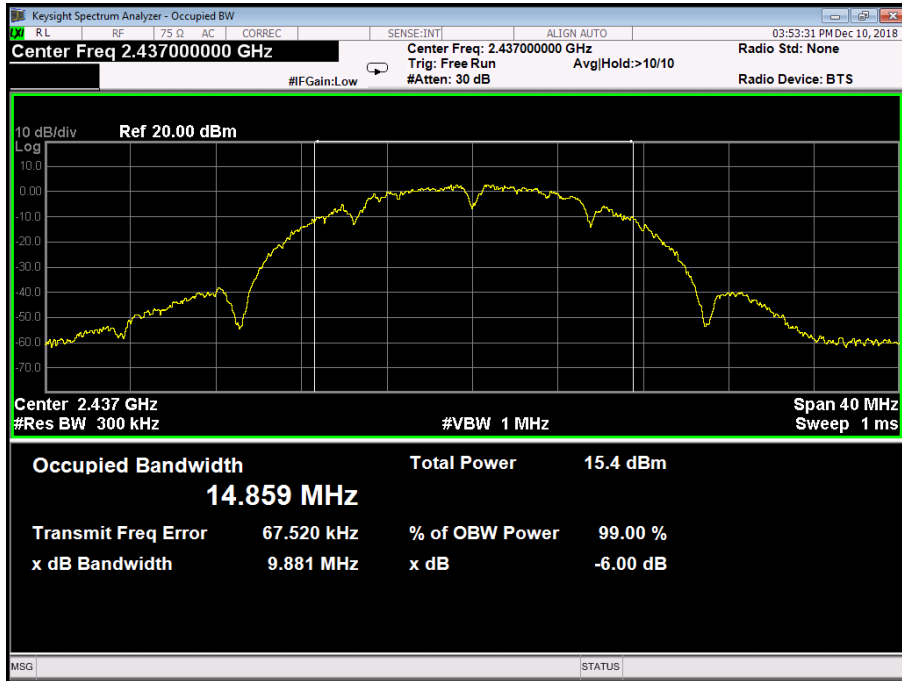
802.11B Mode

2412 MHz



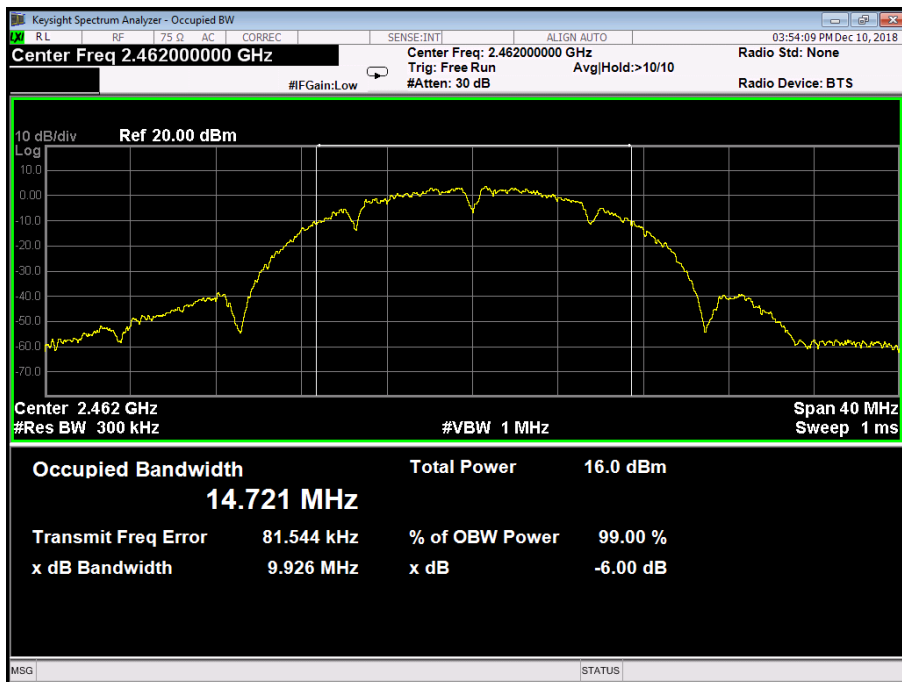
802.11B Mode

2437 MHz



802.11B Mode

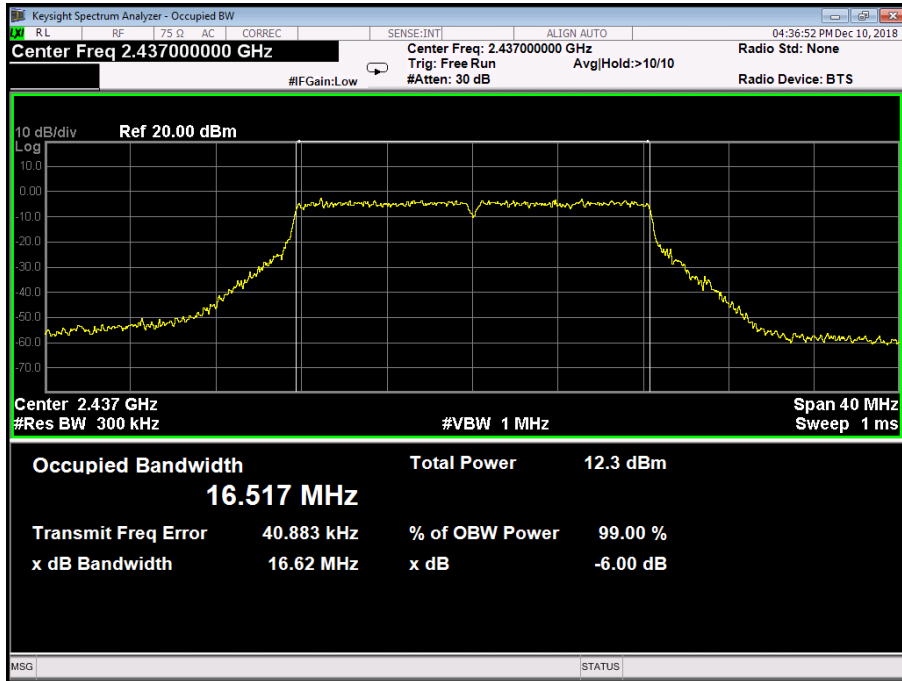
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%																
Test Voltage:	AC 120/60Hz																		
Test Mode:	TX 802.11G Mode																		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)																
2412	16.66	16.533	≥0.5																
2437	16.62	16.517																	
2462	16.59	16.511																	
802.11G Mode																			
2412 MHz																			
<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz Center Freq: 2.412000000 GHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10</p> <p>#IFGain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz</p> <p>Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td colspan="2">12.2 dBm</td> </tr> <tr> <td>16.533 MHz</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>Transmit Freq Error</td> <td>36.046 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>16.66 MHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table>				Occupied Bandwidth	Total Power	12.2 dBm		16.533 MHz				Transmit Freq Error	36.046 kHz	% of OBW Power	99.00 %	x dB Bandwidth	16.66 MHz	x dB	-6.00 dB
Occupied Bandwidth	Total Power	12.2 dBm																	
16.533 MHz																			
Transmit Freq Error	36.046 kHz	% of OBW Power	99.00 %																
x dB Bandwidth	16.66 MHz	x dB	-6.00 dB																

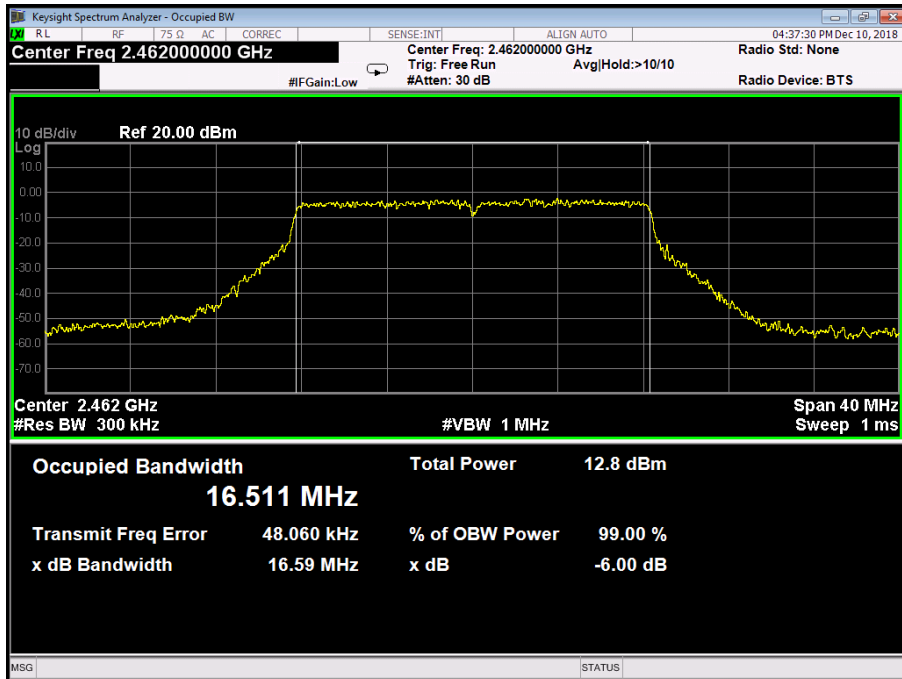
802.11G Mode

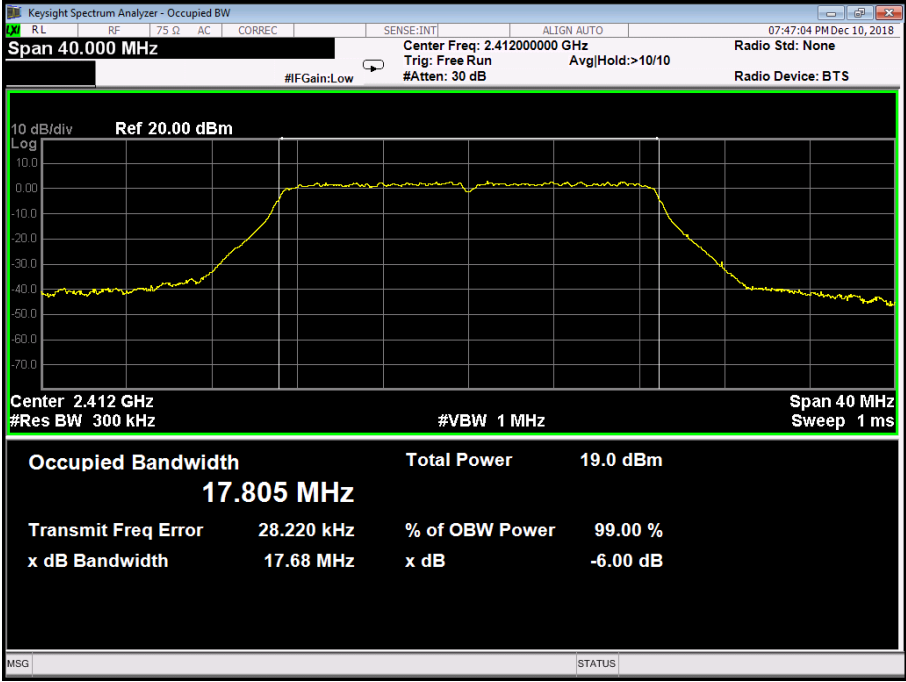
2437 MHz



802.11G Mode

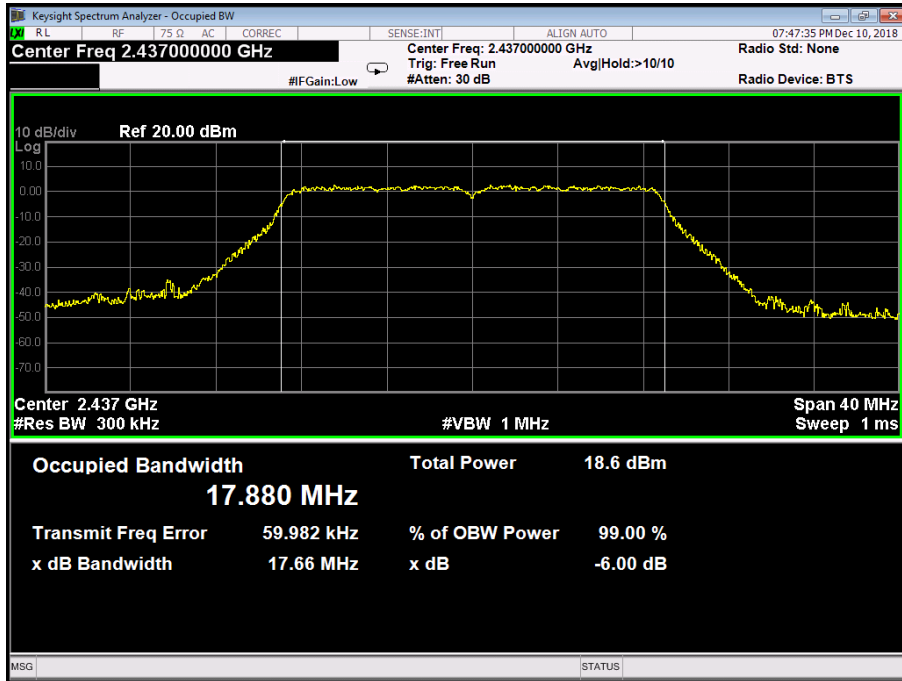
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.68	17.805	>=0.5
2437	17.66	17.880	
2462	17.59	17.788	
802.11N(HT20) Mode			
2412 MHz			
			

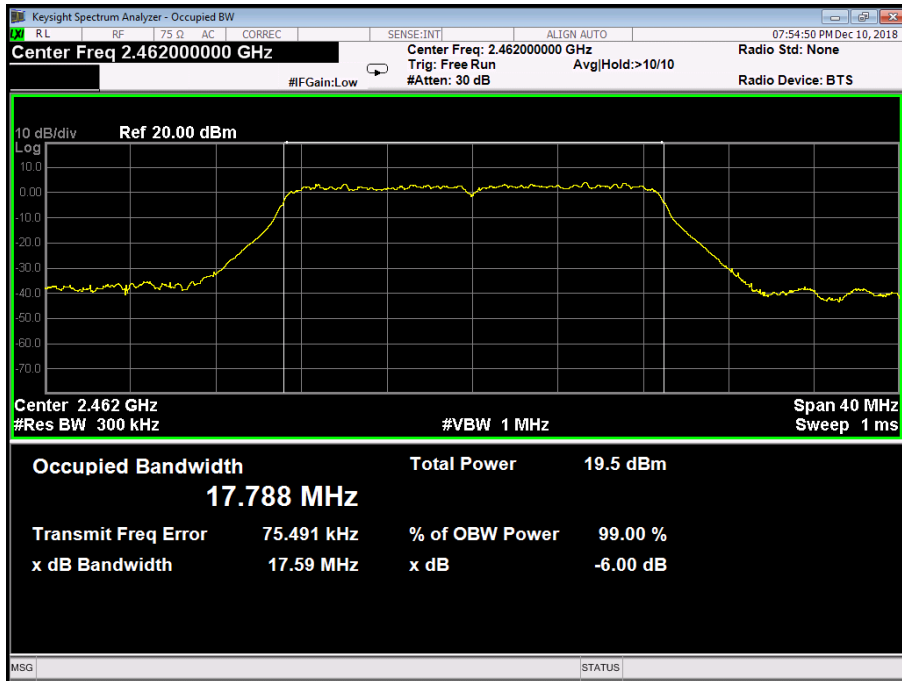
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

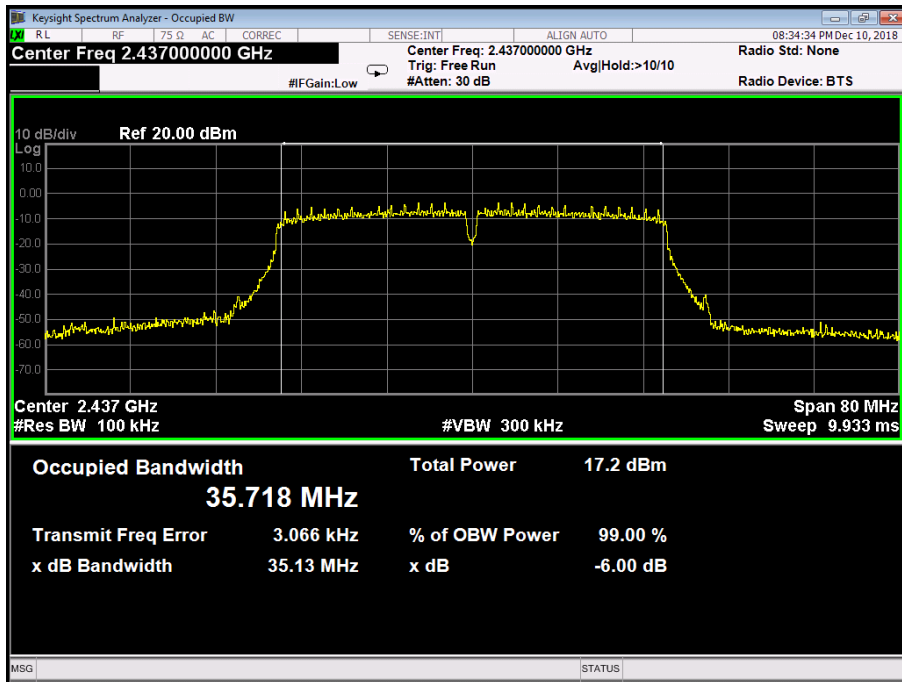
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%												
Test Voltage:	AC 120/60Hz														
Test Mode:	TX 802.11N(HT40) Mode														
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)												
2422	35.14	35.704	>=0.5												
2437	35.13	35.718													
2452	35.15	35.737													
802.11N(HT40) Mode															
2422 MHz															
<p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10 Radio Device: BTS</p> <p>#FGain: Low #Atten: 30 dB</p> <p>10 dB/div Ref 20.00 dBm</p> <p>Center 2.422 GHz Span 80 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 9.933 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.0 dBm</td> </tr> <tr> <td>35.704 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-3.685 kHz</td> <td>% of OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>35.14 MHz</td> <td>x dB -6.00 dB</td> </tr> </table>				Occupied Bandwidth	Total Power	12.0 dBm	35.704 MHz			Transmit Freq Error	-3.685 kHz	% of OBW Power 99.00 %	x dB Bandwidth	35.14 MHz	x dB -6.00 dB
Occupied Bandwidth	Total Power	12.0 dBm													
35.704 MHz															
Transmit Freq Error	-3.685 kHz	% of OBW Power 99.00 %													
x dB Bandwidth	35.14 MHz	x dB -6.00 dB													

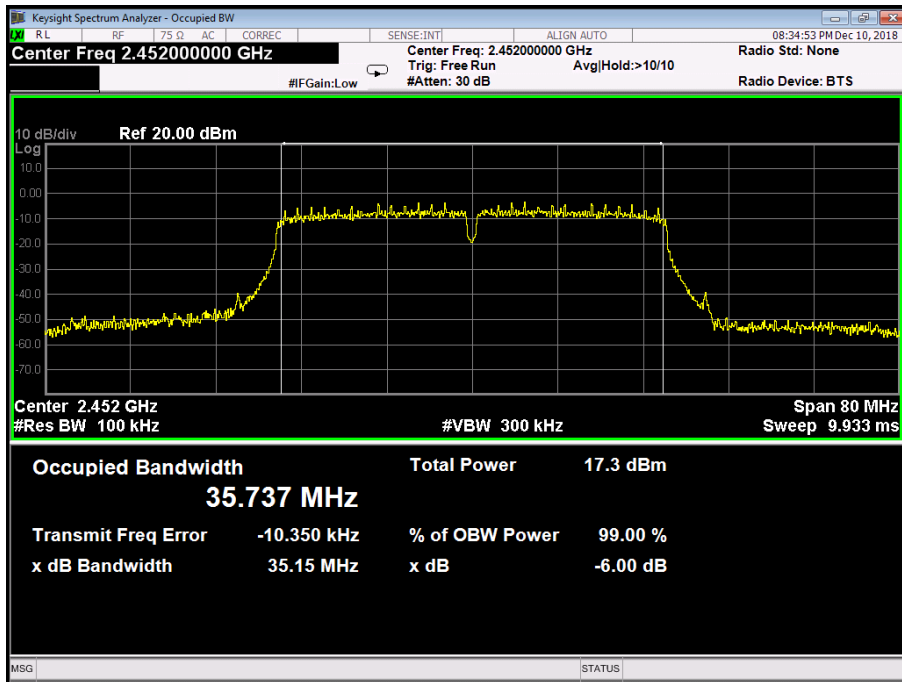
802.11N(HT40) Mode

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:		AC 120/60Hz	
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	15.46	30
	2437	15.12	
	2462	15.65	
802.11g	2412	12.20	
	2437	12.38	
	2462	12.81	
802.11n (HT20)	2412	12.17	
	2437	12.32	
	2462	12.59	
802.11n (HT40)	2422	12.37	
	2437	12.41	
	2452	12.57	
Result: PASS			

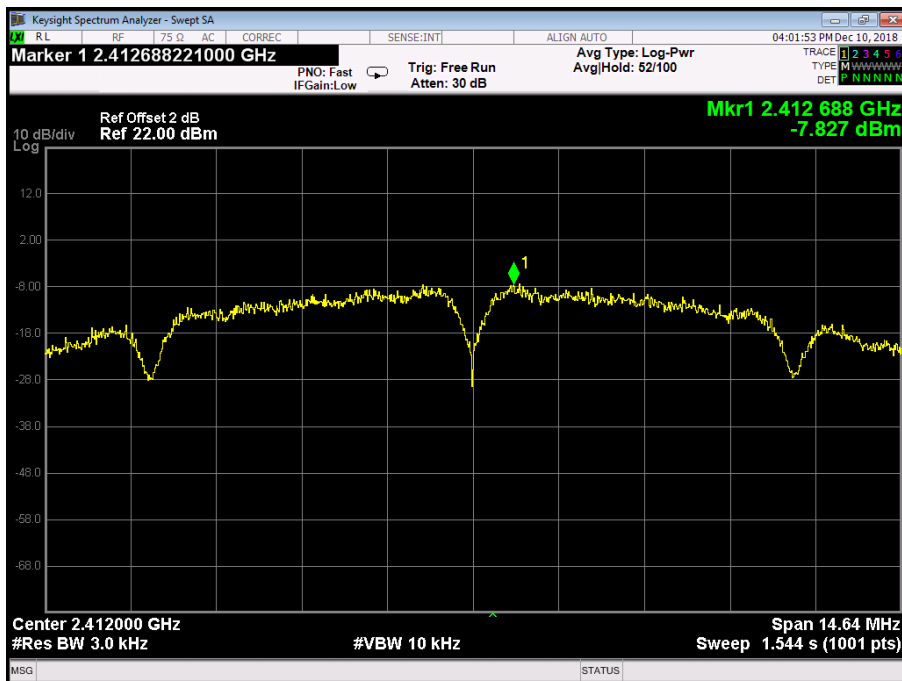
Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
802.11n (HT40)	2422	
	2437	
	2452	

Attachment F-- Power Spectral Density Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11B Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-7.827	8	
2437	-7.123		
2462	-6.745		

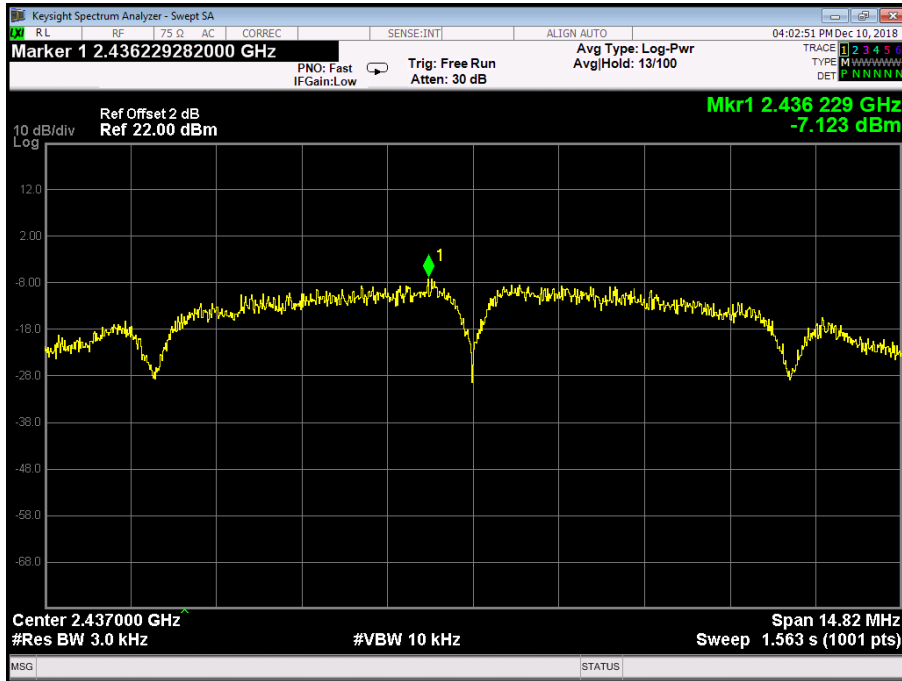
802.11B Mode

2412 MHz



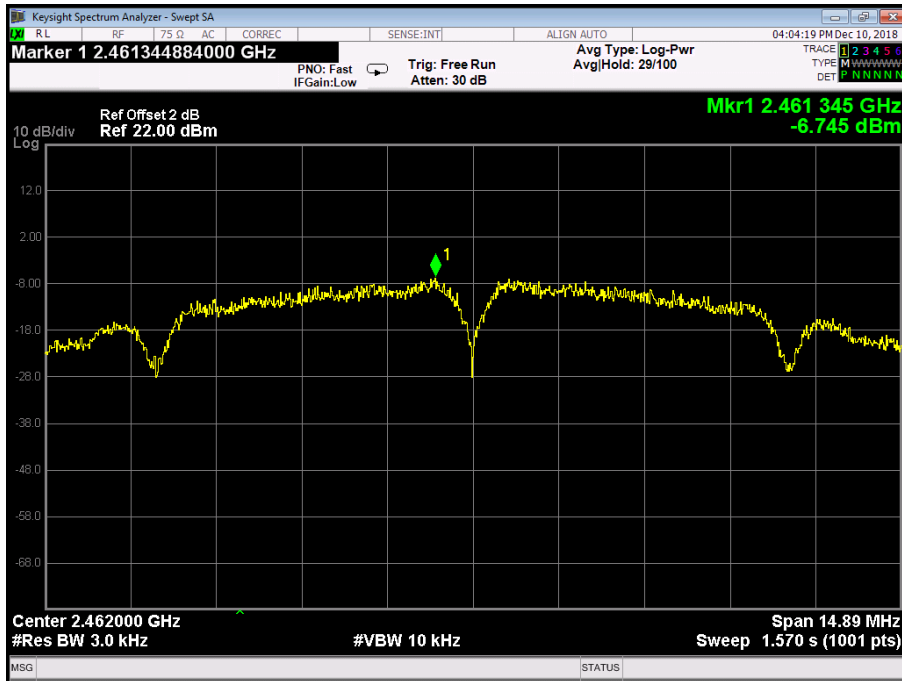
802.11B Mode

2437 MHz



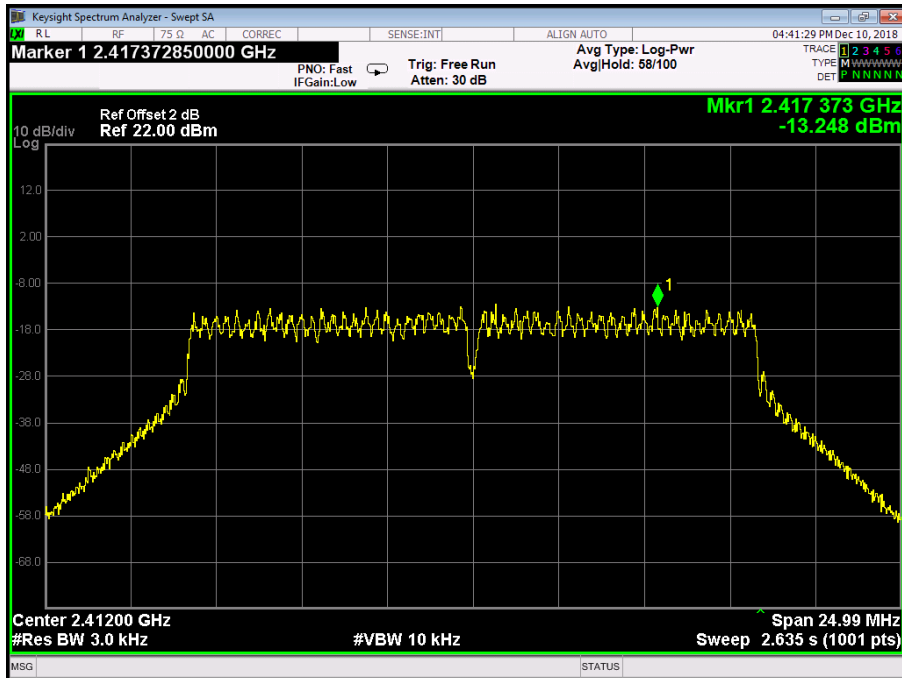
802.11B Mode

2462 MHz



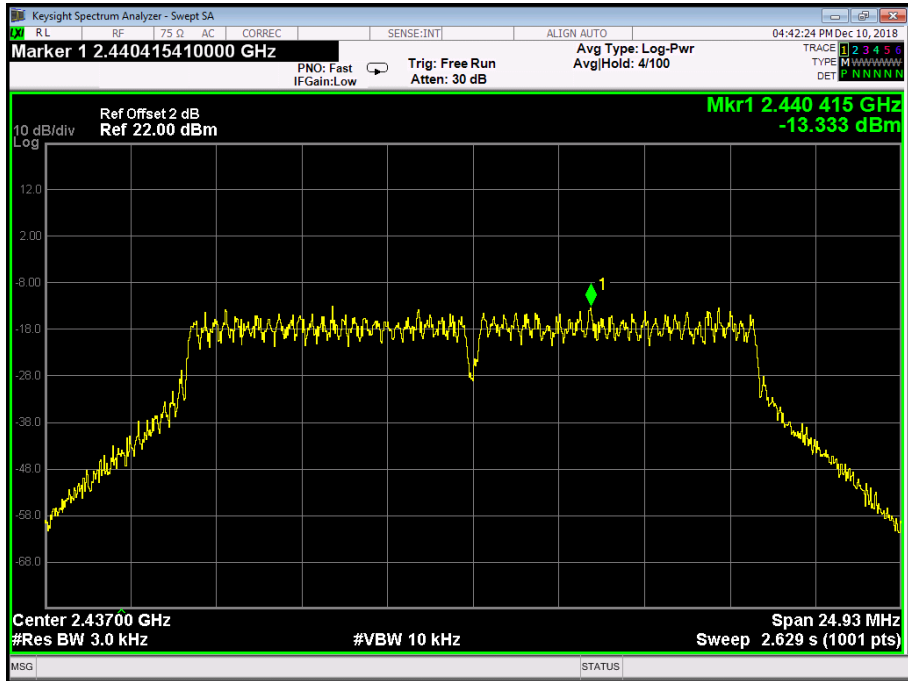
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11G Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-13.248	8	
2437	-13.333		
2462	-12.566		
802.11G Mode			

2412 MHz



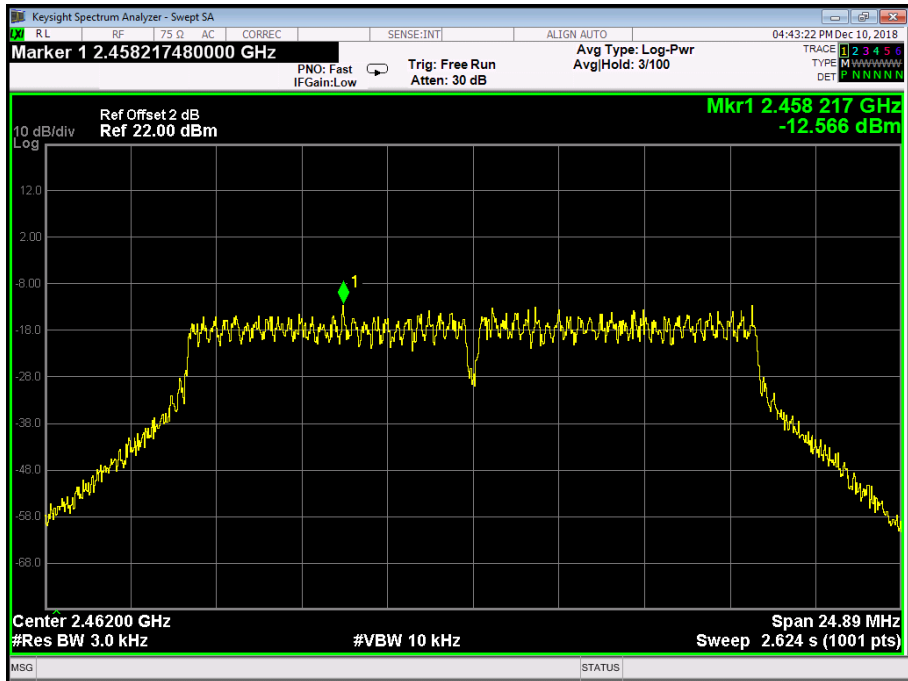
802.11G Mode

2437 MHz



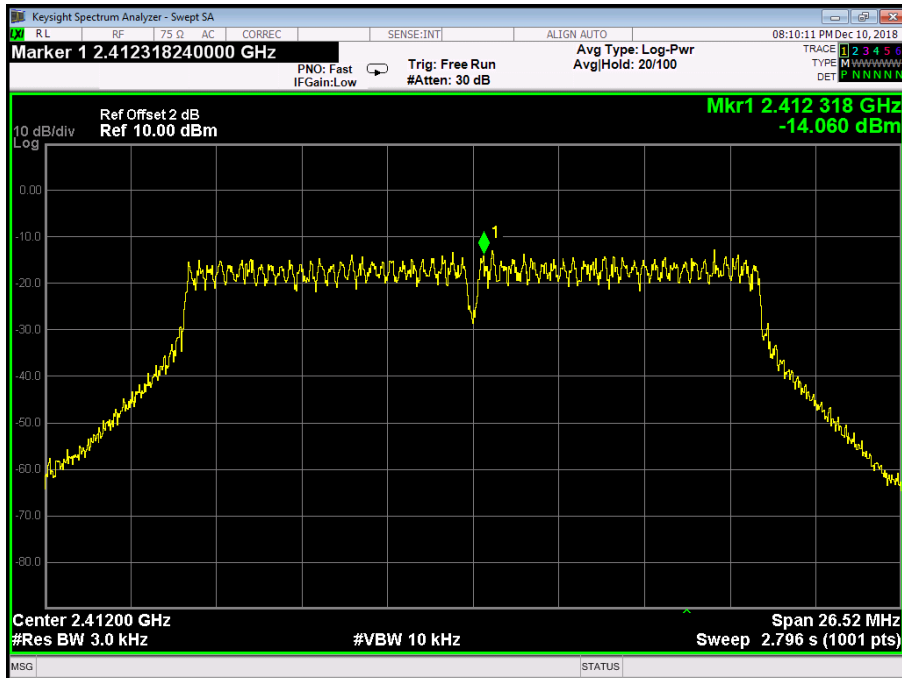
802.11G Mode

2462 MHz



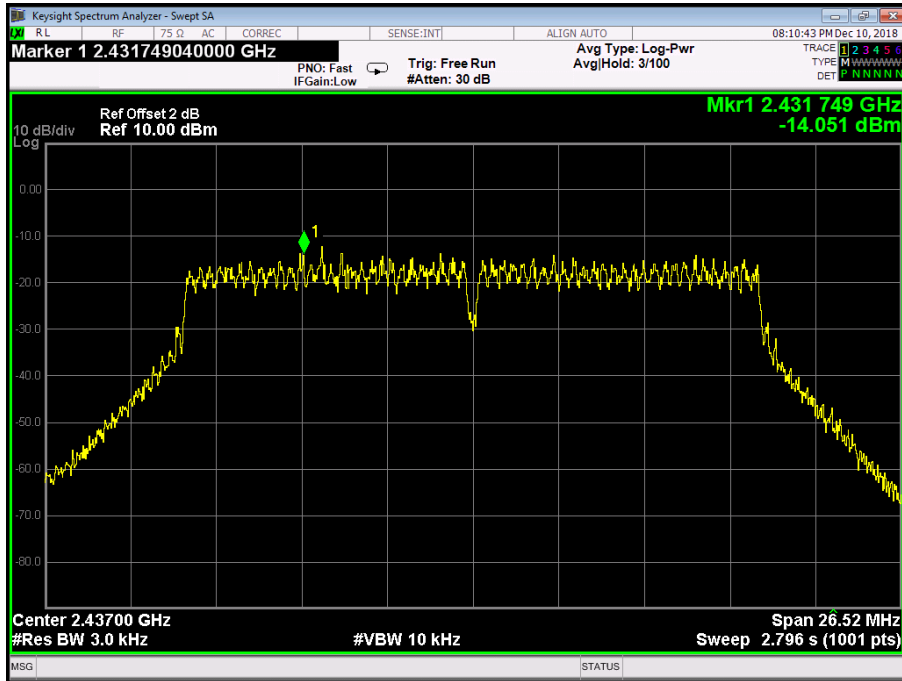
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2412	-14.060	8	
2437	-14.051		
2462	-11.299		
802.11N(HT20) Mode			

2412 MHz



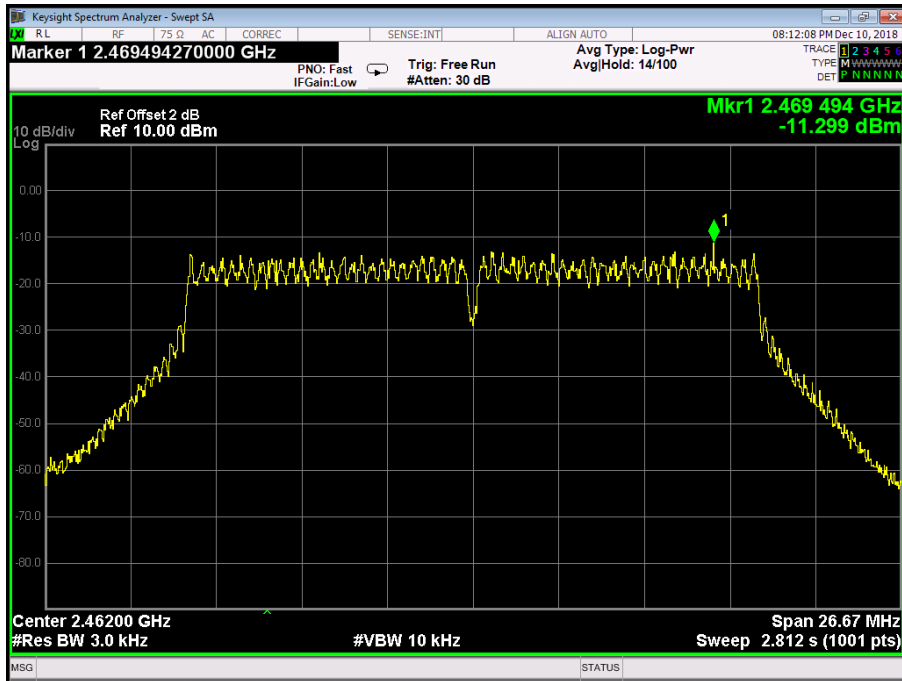
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

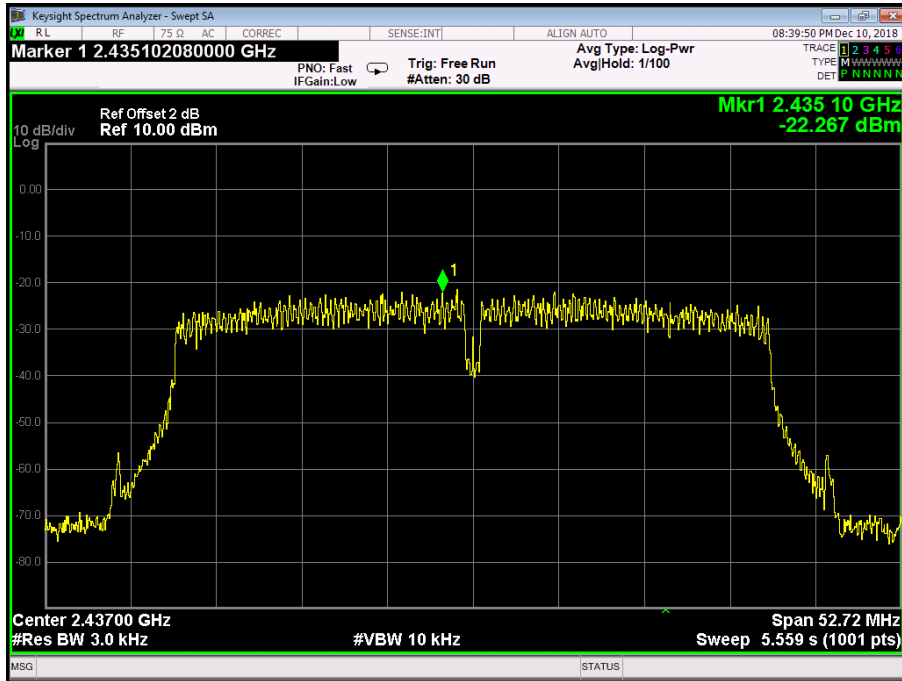
2462 MHz



Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm)	
2422	-21.598	8	
2437	-22.267		
2452	-21.773		
802.11N(HT40) Mode			
2422 MHz			

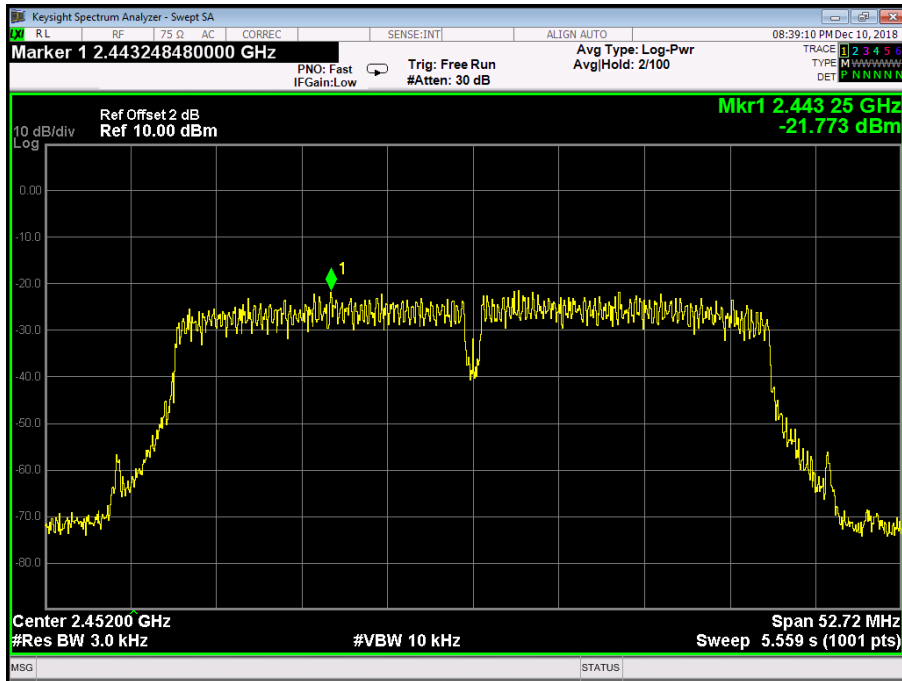
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



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