

TEST REPORT

FCC ID: 2AULM-BIT32CYI

Product: BIT module

Model No.: BIT32CYI1

Additional Model No.: BIT16CYI1

Trade Mark: Widora

Report No.: TCT190912E004

Issued Date: Oct. 18, 2019

Issued for:

**Beijing Widora Technology Co., Ltd.
506-A082, 5th Floor, Block C, No. 8, Malianyu North Road, Haidian District,
Beijing, China**

Issued By:

**Shenzhen Tongce Testing Lab.
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TABLE OF CONTENTS

1. Test Certification	3
2. Test Result Summary	4
3. EUT Description.....	5
4. General Information.....	7
4.1. Test environment and mode.....	7
4.2. Description of Support Units	8
5. Facilities and Accreditations	9
5.1. Facilities	9
5.2. Location	9
5.3. Measurement Uncertainty.....	9
6. Test Results and Measurement Data	10
6.1. Antenna requirement	10
6.2. Conducted Emission.....	11
6.3. Maximum Conducted (Average) Output Power	15
6.4. Emission Bandwidth	16
6.5. Power Spectral Density.....	17
6.6. Conducted Band Edge and Spurious Emission Measurement	18
6.7. Radiated Spurious Emission Measurement	20

Appendix A: Test Result of Conducted Test**Appendix B: Photographs of Test Setup****Appendix C: Photographs of EUT**

1. Test Certification

Product:	BIT module
Model No.:	BIT32CYI1
Additional Model:	BIT16CYI1
Trade Mark:	Widora
Applicant:	Beijing Widora Technology Co., Ltd.
Address:	506-A082, 5th Floor, Block C, No. 8, Malianyu North Road, Haidian District, Beijing, China
Manufacturer:	Beijing Widora Technology Co., Ltd.
Address:	506-A082, 5th Floor, Block C, No. 8, Malianyu North Road, Haidian District, Beijing, China
Date of Test:	Sep. 16, 2019 – Oct. 17, 2019
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Brave Zeng **Date:** Oct. 17, 2019
 Beryl Zhao **Date:** Oct. 18, 2019
 Beryl Zhao **Date:** Oct. 18, 2019

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	BIT module
Model No.:	BIT32CYI1
Additional Model:	BIT16CYI1
Trade Mark:	Widora
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	External Antenna
Antenna Gain:	4dBi
Power Supply:	DC 3.3V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just DDR capacity and FLASH capacity are different for the marketing requirement.

Operation Frequency each of channel For 802.11b/g/n(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	--	--

Operation Frequency each of channel For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
--	--	4	2427MHz	7	2442MHz	--	--
--	--	5	2432MHz	8	2447MHz	--	--
3	2422MHz	6	2437MHz	9	2452MHz	--	--

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

4. General Information

4.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	25.0 °C	25.0 °C
Humidity:	55 % RH	55 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery	
<p>The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.</p>		

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation
-----------------	---

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

2. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11n(H40). Duty cycle setting during the transmission is 98.46% with maximum power setting for all modulations.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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15.203 requirement:

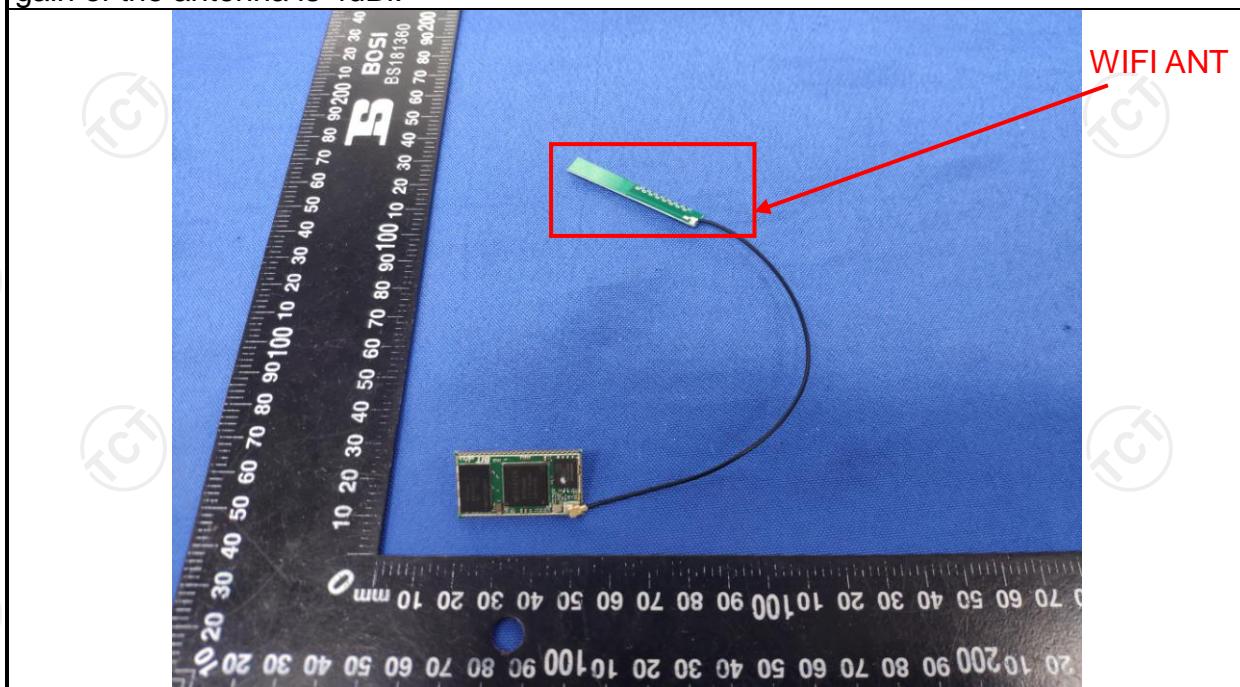
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

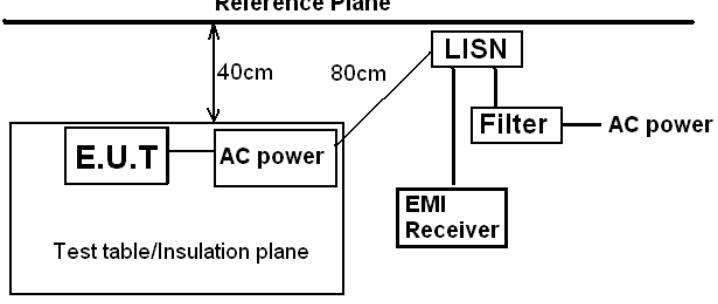
E.U.T Antenna:	
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The WIFI antenna is external antenna which permanently attached, and the best case gain of the antenna is 4dBi.



6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207															
Test Method:	ANSI C63.10:2013															
Frequency Range:	150 kHz to 30 MHz															
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto															
Limits:	<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th></th> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)			Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)															
	Quasi-peak	Average														
0.15-0.5	66 to 56*	56 to 46*														
0.5-5	56	46														
5-30	60	50														
Test Setup:	 <p><i>Remark</i> <i>E.U.T: Equipment Under Test</i> <i>LISN: Line Impedance Stabilization Network</i> <i>Test table height=0.8m</i></p>															
Test Mode:	Charging + transmitting with modulation															
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 															
Test Result:	PASS															

6.2.2. Test Instruments

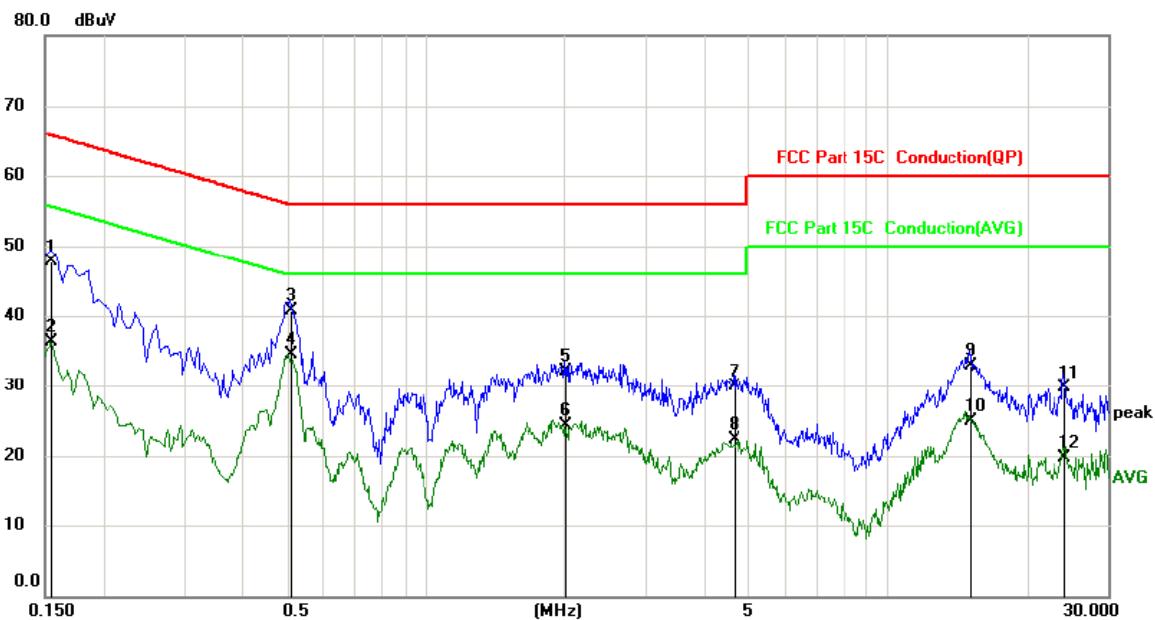
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101402	Jul. 29, 2020
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2020
Coax cable (9KHz-30MHz)	TCT	CE-05	N/A	Sep. 08, 2020
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site				Phase:	L1		Temperature:	25
Limit: FCC Part 15C Conduction(QP)				Power:			Humidity:	55 %
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dB μ V	dB	dB μ V	dB	Detector	Comment
1		0.1545	37.46	10.22	47.68	65.75	-18.07	QP
2		0.1545	26.16	10.22	36.38	55.75	-19.37	AVG
3		0.5100	30.52	10.22	40.74	56.00	-15.26	QP
4	*	0.5100	24.23	10.22	34.45	46.00	-11.55	AVG
5		2.0040	21.59	10.45	32.04	56.00	-23.96	QP
6		2.0040	13.80	10.45	24.25	46.00	-21.75	AVG
7		4.6230	19.45	10.48	29.93	56.00	-26.07	QP
8		4.6230	11.85	10.48	22.33	46.00	-23.67	AVG
9		15.0855	22.04	10.80	32.84	60.00	-27.16	QP
10		15.0855	14.17	10.80	24.97	50.00	-25.03	AVG
11		24.1170	18.66	11.12	29.78	60.00	-30.22	QP
12		24.1170	8.51	11.12	19.63	50.00	-30.37	AVG

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

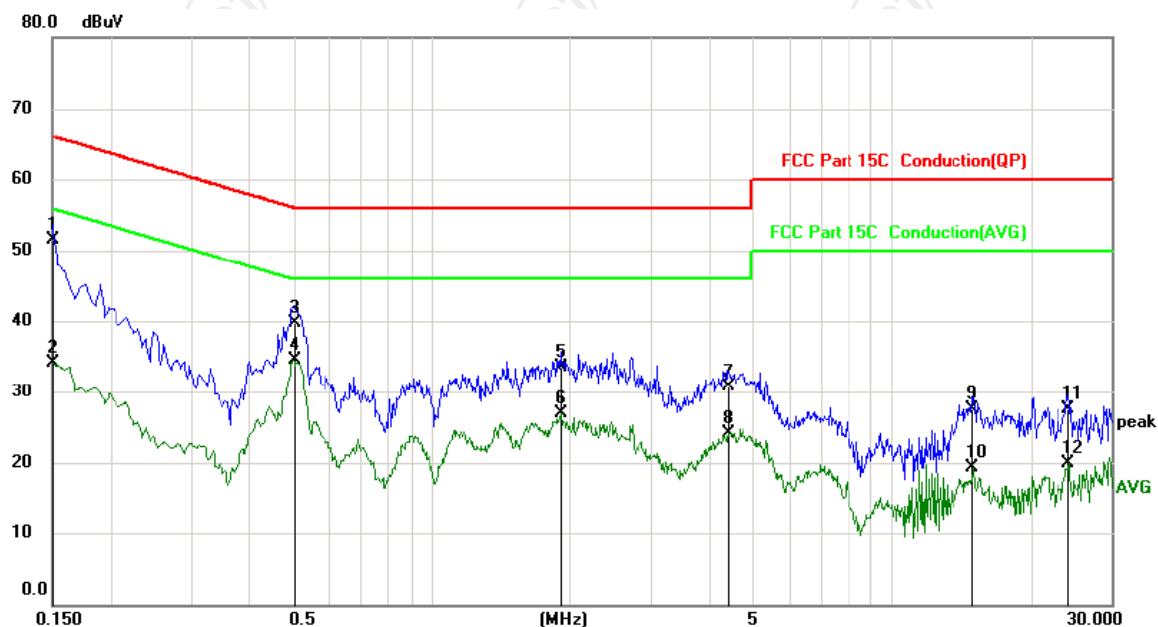
Q.P. = Quasi-Peak

AVG = average

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site				Phase: N			Temperature: 25	
Limit: FCC Part 15C Conduction(QP)				Power:			Humidity: 55 %	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector Comment
1		0.1500	41.23	10.23	51.46	66.00	-14.54	QP
2		0.1500	23.84	10.23	34.07	56.00	-21.93	AVG
3		0.5010	29.54	10.22	39.76	56.00	-16.24	QP
4 *		0.5010	24.33	10.22	34.55	46.00	-11.45	AVG
5		1.9140	23.04	10.44	33.48	56.00	-22.52	QP
6		1.9140	16.51	10.44	26.95	46.00	-19.05	AVG
7		4.3845	20.13	10.48	30.61	56.00	-25.39	QP
8		4.3845	13.71	10.48	24.19	46.00	-21.81	AVG
9		14.9415	16.74	10.79	27.53	60.00	-32.47	QP
10		14.9415	8.46	10.79	19.25	50.00	-30.75	AVG
11		24.0674	16.45	11.12	27.57	60.00	-32.43	QP
12		24.0674	8.69	11.12	19.81	50.00	-30.19	AVG

Note:

Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

Limit (dB μ V) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. = Quasi-Peak

AVG = average

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

6.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 12, 2020
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 12, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2020

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4. Emission Bandwidth

6.4.1. Test Specification

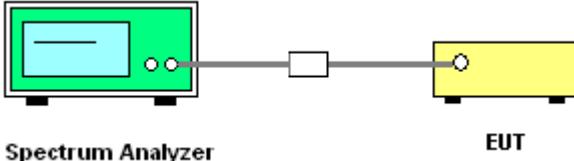
6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 12, 2020
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 12, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2020

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5. Power Spectral Density

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 <p>The diagram illustrates the test setup. A green 'Spectrum Analyzer' is connected to a yellow 'EUT' (Equipment Under Test) through a grey 'RF cable' and a small white 'attenuator' box. The spectrum analyzer has a central display and two control knobs.</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. Video bandwidth $\text{VBW} \geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 4. Detector = RMS, Sweep time = auto couple. 5. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.
Test Result:	PASS

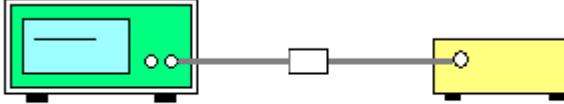
6.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 12, 2020
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 12, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2020

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

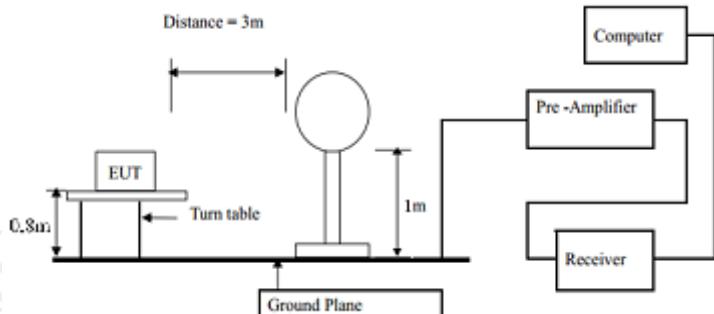
6.6.2. Test Instruments

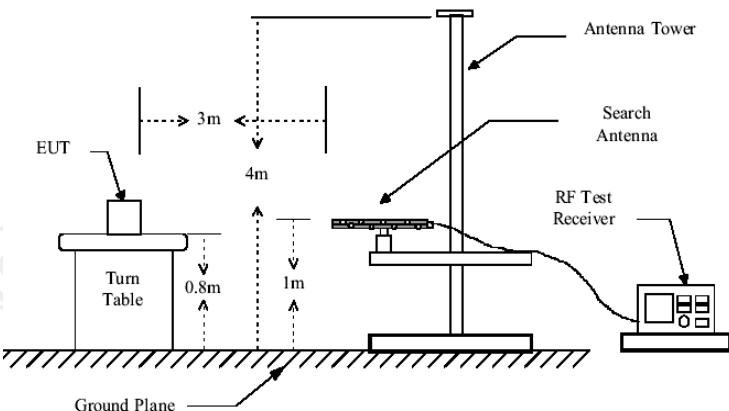
RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 12, 2020
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 12, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2020

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

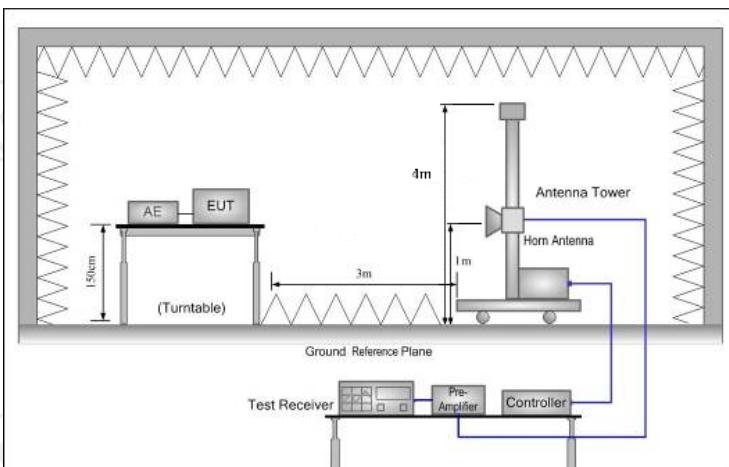
6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10: 2013								
Frequency Range:	9 kHz to 25 GHz								
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal & Vertical								
Operation mode:	Transmitting mode with modulation								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value					
	Quasi-peak	9kHz	30kHz	Quasi-peak Value					
150kHz- 30MHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value					
	Peak	1MHz	3MHz	Peak Value					
30MHz-1GHz	Peak	1MHz	10Hz	Average Value					
Limit:	Frequency	Field Strength (microvolts/meter)		Measurement Distance (meters)					
0.009-0.490	2400/F(KHz)	300		300					
	24000/F(KHz)	30		30					
1.705-30	30	30		30					
	100	3		3					
30-88	150	3		3					
	200	3		3					
88-216	500	3		3					
	5000	3		Peak					
Test setup:	For radiated emissions below 30MHz								
	 <p>Distance = 3m Turn table EUT Ground Plane 1m 0.8m Computer Pre -Amplifier Receiver</p> <p>30MHz to 1GHz</p>								



Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz:
 The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
 Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which

	<p>maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>5. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none">(1) Span shall wide enough to fully capture the emission being measured;(2) Set RBW=120 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;(3) Set RBW = 1 MHz, VBW= 3MHz for $f > 1$ GHz for peak measurement. <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Test results:	PASS

6.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 29, 2020
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 12, 2020
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coax cable (9KHz-40GHz)	TCT	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Sep. 08, 2020
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

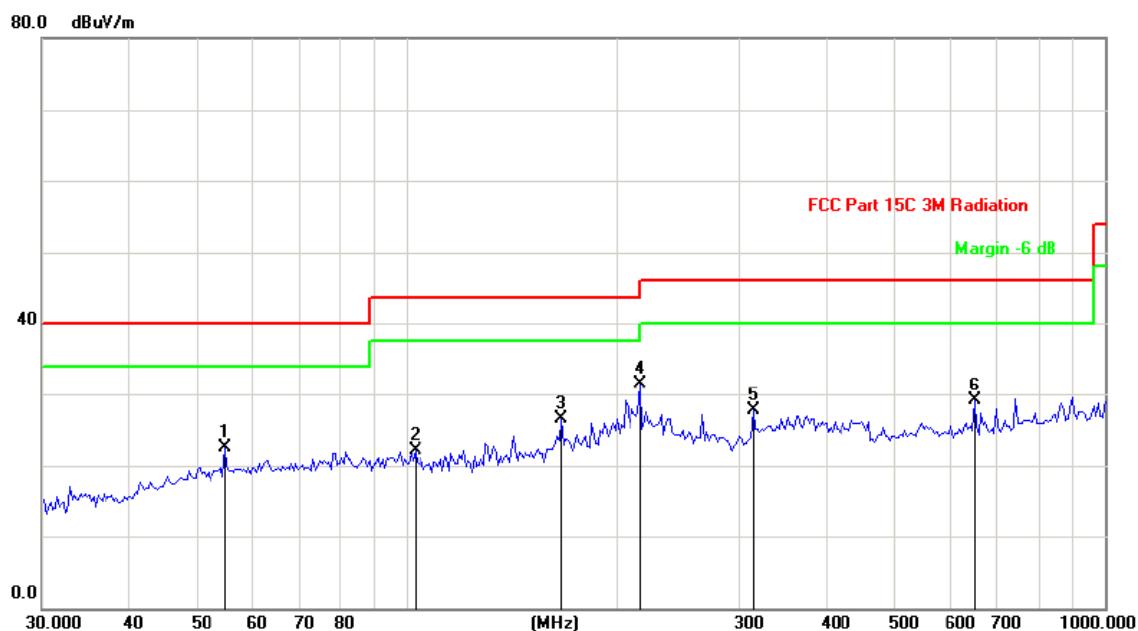
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:

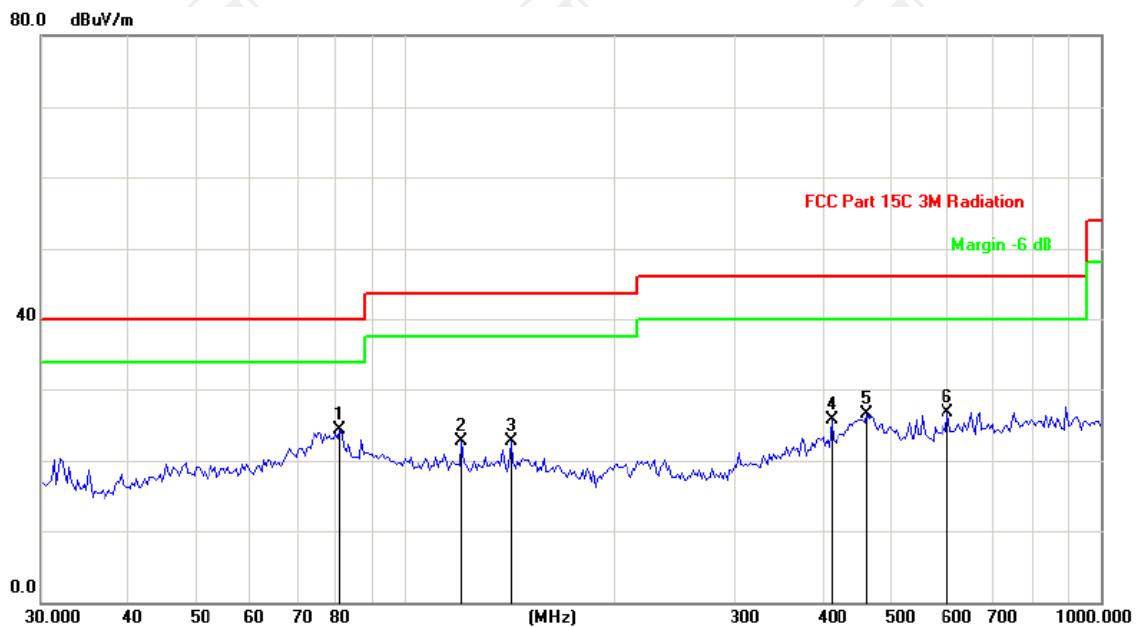


Site: Polarization: **Horizontal** Temperature: 25

Limit: FCC Part 15C 3M Radiation Power: Humidity: 55 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment				
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		54.9010	33.76	-11.17	22.59	40.00	-17.41	peak	
2		102.6115	30.42	-8.23	22.19	43.50	-21.31	peak	
3		166.6382	41.99	-15.50	26.49	43.50	-17.01	peak	
4	*	216.1194	45.03	-13.55	31.48	46.00	-14.52	peak	
5		313.6482	38.23	-10.58	27.65	46.00	-18.35	peak	
6		651.3831	34.74	-5.57	29.17	46.00	-16.83	peak	

Vertical:



Site			Polarization: Vertical		Temperature: 25		
Limit: FCC Part 15C 3M Radiation			Power:		Humidity: 55 %		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dB/m	dB
1	*	80.8041	40.45	-16.20	24.25	40.00	-15.75
2		120.6118	34.51	-11.78	22.73	43.50	-20.77
3		141.7692	38.85	-16.12	22.73	43.50	-20.77
4		409.6505	34.50	-8.83	25.67	46.00	-20.33
5		461.6313	34.61	-8.11	26.50	46.00	-19.50
6		602.9287	32.56	-5.78	26.78	46.00	-19.22

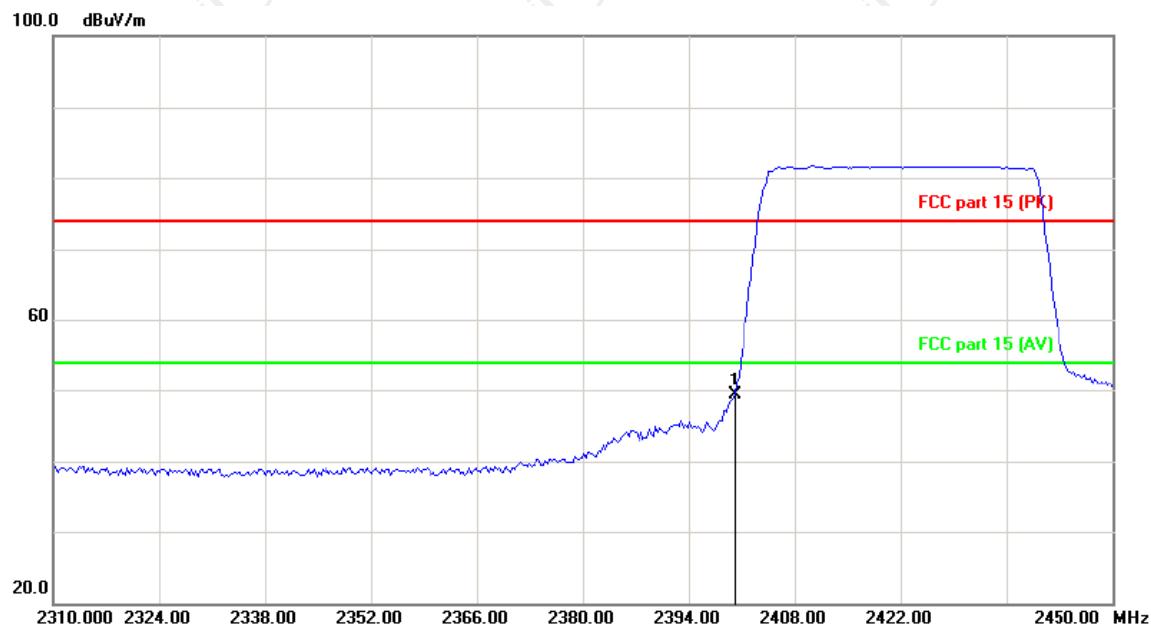
Note: 1. The low frequency, which started from 9KHz-30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Middle channel and 802.11b) was submitted only.

Test Result of Radiated Spurious at Band edges

Lowest channel 2422:

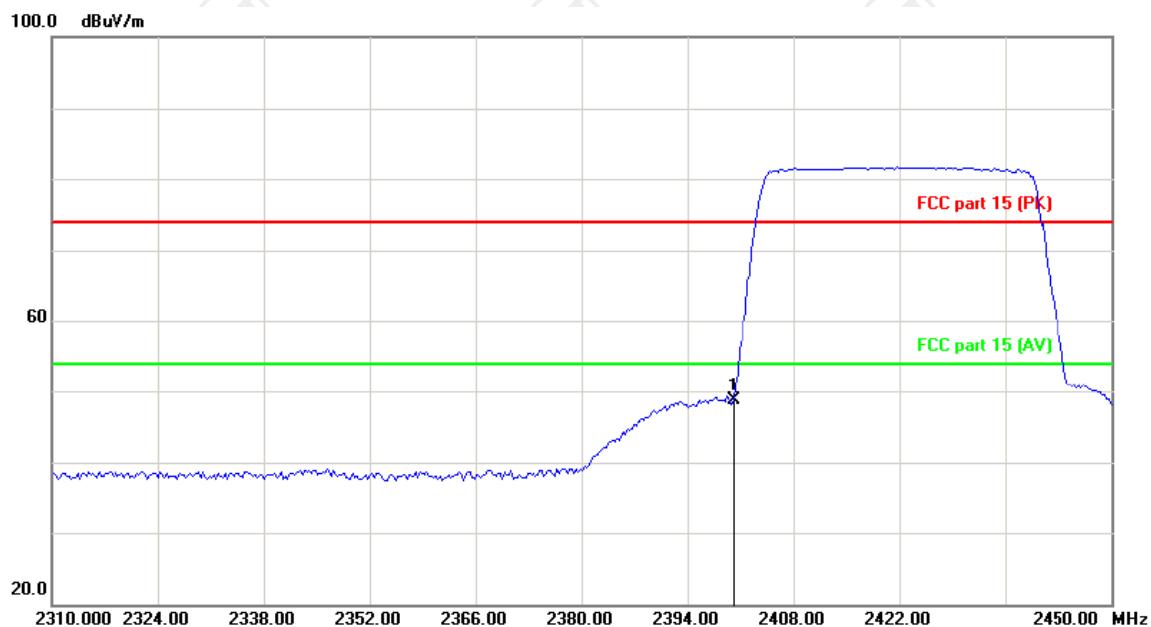
Horizontal:



Site Polarization: **Horizontal** Temperature: 25
Limit: FCC part 15 (PK) Power: Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over
			dBuV	dB	dBuV/m	dB/m	Detector
1	*	2400.000	62.48	-13.12	49.36	74.00	-24.64 peak

Vertical:

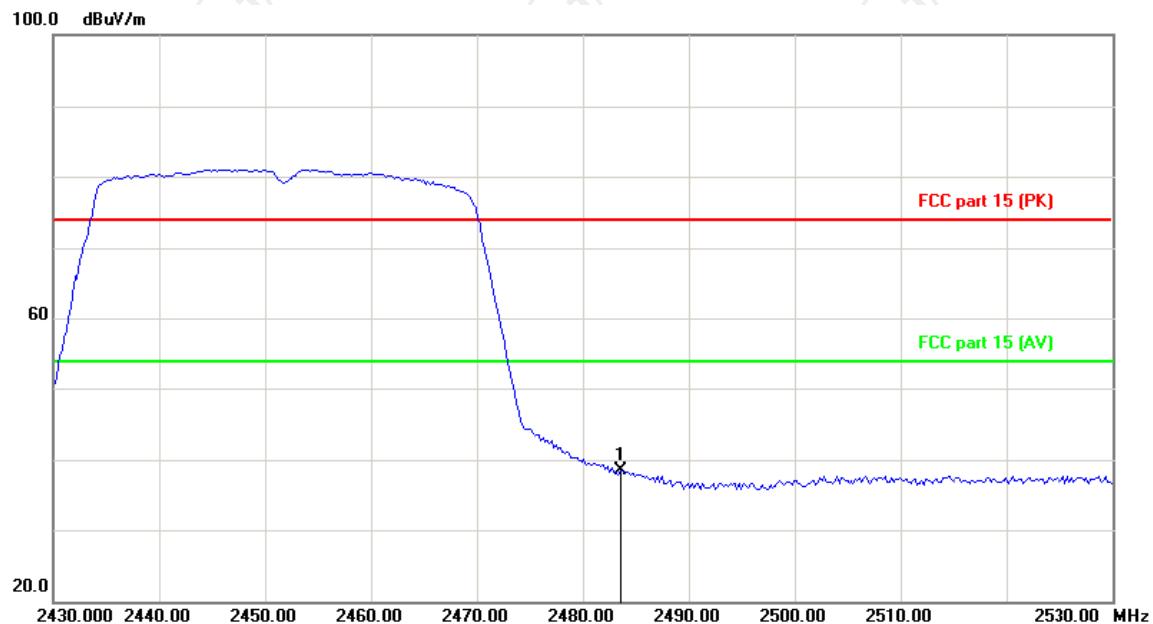


Site	Polarization: Vertical			Temperature: 25				
Limit: FCC part 15 (PK)	Power:			Humidity: 55 %				
No.	Mk.	Reading Level	Correct Factor	Measure-ment				
	MHz	dBuV	dB	dBuV/m				
1	*	2400.000	61.86	-13.12	48.74	74.00	-25.26	peak

Note: Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (802.11n(HT40))

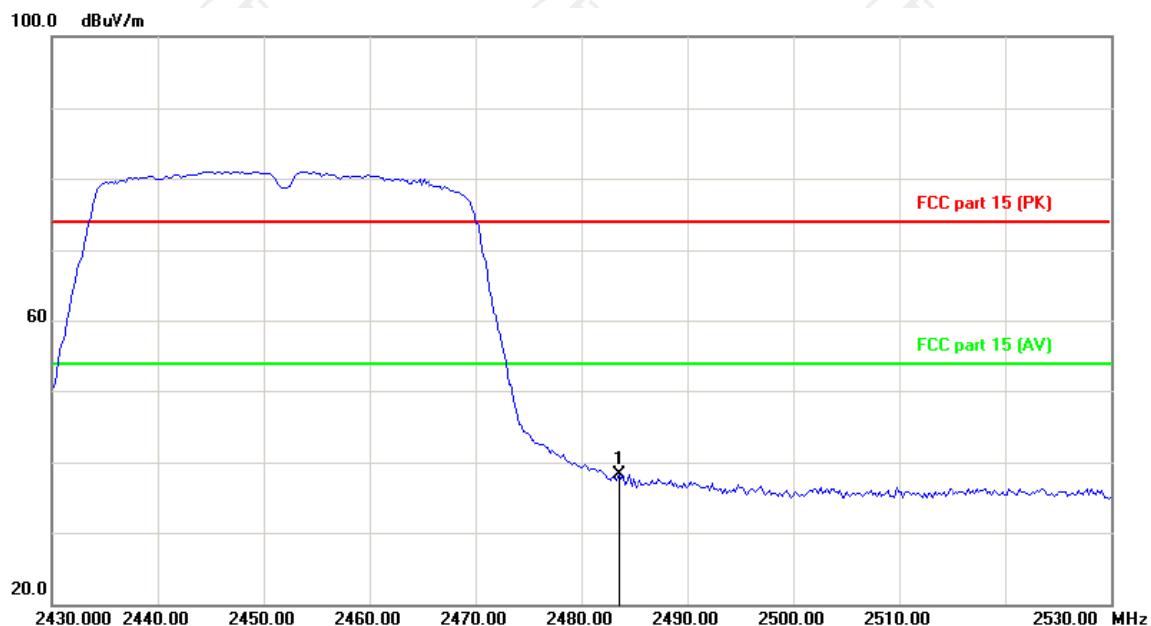
Highest channel 2452:

Horizontal:



Site	Polarization: Horizontal			Temperature: 25				
Limit: FCC part 15 (PK)	Power: 57 dBuV/m			Humidity: 55 %				
No.	Mk.	Reading Level	Correct Factor	Measurement				
	MHz	dBuV	dB	dBuV/m				
1	*	2483.500	51.22	-12.74	38.48	74.00	-35.52	peak

Vertical:



Site	Polarization: Vertical			Temperature: 25				
Limit: FCC part 15 (PK)		Power:		Humidity: 55 %				
No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	
1	*	2483.500	51.04	-12.74	38.30	74.00	-35.70	peak

Note:

1. Peak Final Emission Level=Peak Reading + Correction Factor;
2. Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (802.11n(HT40)) was submitted only.

Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4824	H	48.60	---	0.75	49.35	---	74	54	-4.65
7236	H	40.28	---	9.87	50.15	---	74	54	-3.85
---	H	---	---	---	---	---	---	---	---
4824	V	47.46	---	0.75	48.21	---	74	54	-5.79
7236	V	40.71	---	9.87	50.58	---	74	54	-3.42
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4874	H	48.54	---	0.97	49.51	---	74	54	-4.49
7311	H	41.09	---	9.83	50.92	---	74	54	-3.08
---	H	---	---	---	---	---	---	---	---
4874	V	49.97	---	0.97	50.94	---	74	54	-3.06
7311	V	41.13	---	9.83	50.96	---	74	54	-3.04
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4924	H	49.72	---	1.18	50.90	---	74	54	-3.10
7386	H	38.35	---	10.07	48.42	---	74	54	-5.58
---	H	---	---	---	---	---	---	---	---
4924	V	48.81	---	1.18	49.99	---	74	54	-4.01
7386	V	40.26	---	10.07	50.33	---	74	54	-3.67
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. 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.
6. All the restriction bands are compliance with the limit of 15.209.

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4824	H	49.71	---	0.75	50.46	---	74	54	-3.54
7236	H	40.39	---	9.87	50.26	---	74	54	-3.74
---	H	---	---	---	---	---	---	---	---
4824	V	47.06	---	0.75	47.81	---	74	54	-6.19
7236	V	40.82	---	9.87	50.69	---	74	54	-3.31
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4874	H	48.50	---	0.97	49.47	---	74	54	-4.53
7311	H	40.24	---	9.83	50.07	---	74	54	-3.93
---	H	---	---	---	---	---	---	---	---
4874	V	47.65	---	0.97	48.62	---	74	54	-5.38
7311	V	40.18	---	9.83	50.01	---	74	54	-3.99
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4924	H	47.93	---	1.18	49.11	---	74	54	-4.89
7386	H	39.47	---	10.07	49.54	---	74	54	-4.46
---	H	---	---	---	---	---	---	---	---
4924	V	46.81	---	1.18	47.99	---	74	54	-6.01
7386	V	40.35	---	10.07	50.42	---	74	54	-3.58
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. 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.
6. All the restriction bands are compliance with the limit of 15.209.

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4824	H	49.14	---	0.75	49.89	---	74	54	-4.11
7236	H	40.56	---	9.87	50.43	---	74	54	-3.57
---	H	---	---	---	---	---	---	---	---
4824	V	47.28	---	0.75	48.03	---	74	54	-5.97
7236	V	40.60	---	9.87	50.47	---	74	54	-3.53
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4874	H	47.92	---	0.97	48.89	---	74	54	-5.11
7311	H	40.37	---	9.83	50.20	---	74	54	-3.80
---	H	---	---	---	---	---	---	---	---
4874	V	47.71	---	0.97	48.68	---	74	54	-5.32
7311	V	40.49	---	9.83	50.32	---	74	54	-3.68
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4924	H	48.05	---	1.18	49.23	---	74	54	-4.77
7386	H	40.83	---	10.07	50.90	---	74	54	-3.10
---	H	---	---	---	---	---	---	---	---
4924	V	47.26	---	1.18	48.44	---	74	54	-5.56
7386	V	40.74	---	10.07	50.81	---	74	54	-3.19
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. 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.
6. All the restriction bands are compliance with the limit of 15.209.

Modulation Type: 802.11n (HT40)

Low channel: 2422 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4844	H	45.84	---	0.75	46.59	---	74	54	-7.41
7266	H	38.20	---	9.87	48.07	---	74	54	-5.93
---	H	---	---	---	---	---	---	---	---
4824	V	44.59	---	0.75	45.34	---	74	54	-8.66
7236	V	35.07	---	9.87	44.94	---	74	54	-9.06
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4874	H	42.72	---	0.97	43.69	---	74	54	-10.31
7311	H	34.36	---	9.83	44.19	---	74	54	-9.81
---	H	---	---	---	---	---	---	---	---
4874	V	43.18	---	0.97	44.15	---	74	54	-9.85
7311	V	37.93	---	9.83	47.76	---	74	54	-6.24
---	V	---	---	---	---	---	---	---	---

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4904	H	45.61	---	1.18	46.79	---	74	54	-7.21
7356	H	36.45	---	10.07	46.52	---	74	54	-7.48
---	H	---	---	---	---	---	---	---	---
4904	V	43.29	---	1.18	44.47	---	74	54	-9.53
7356	V	36.54	---	10.07	46.61	---	74	54	-7.39
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. 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.
6. All the restriction bands are compliance with the limit of 15.209.

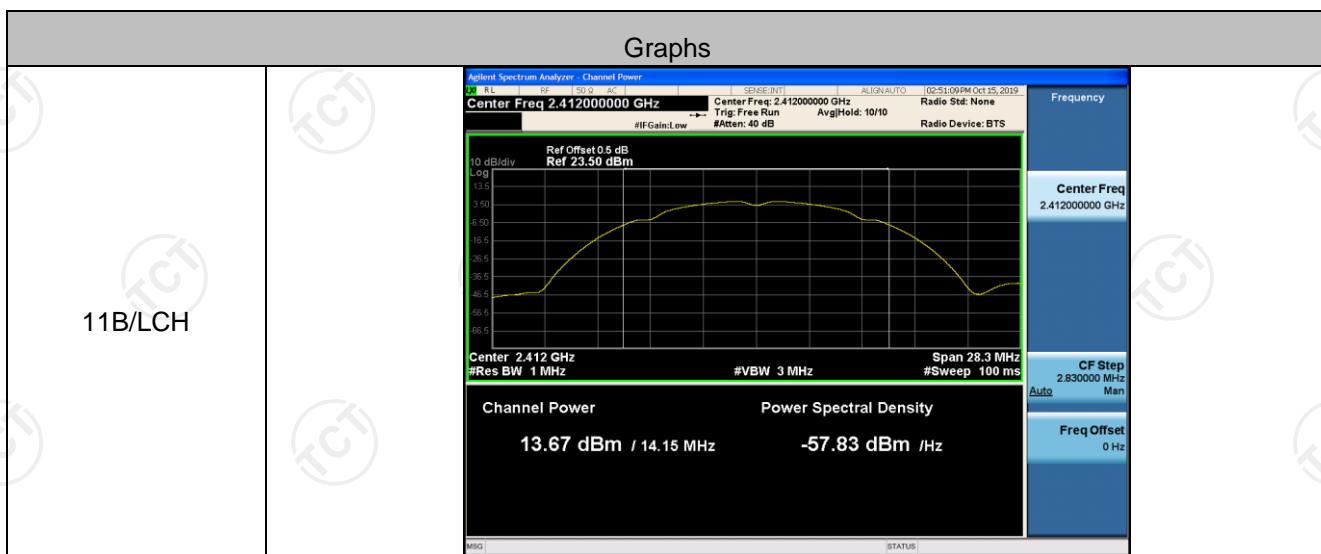
Appendix A: Test Result of Conducted Test

Conducted Average Output Power

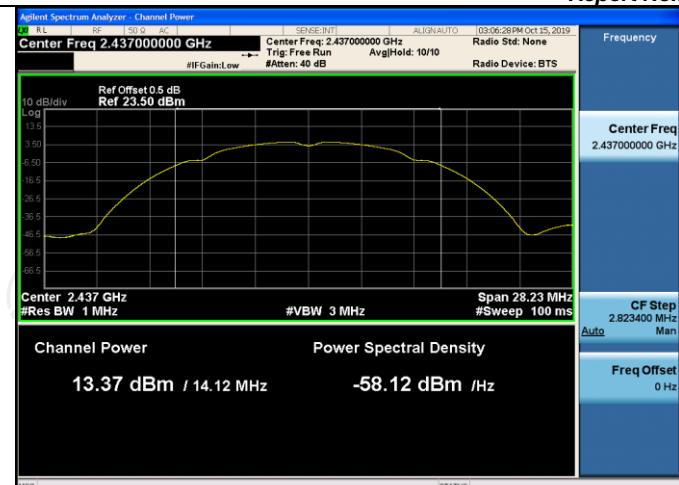
Result Table

Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	13.67	PASS
11B	MCH	13.37	PASS
11B	HCH	13.71	PASS
11G	LCH	11.47	PASS
11G	MCH	11.13	PASS
11G	HCH	11.50	PASS
11N20SISO	LCH	10.98	PASS
11N20SISO	MCH	11.97	PASS
11N20SISO	HCH	11.93	PASS
11N40SISO	LCH	10.35	PASS
11N40SISO	MCH	10.73	PASS
11N40SISO	HCH	10.95	PASS

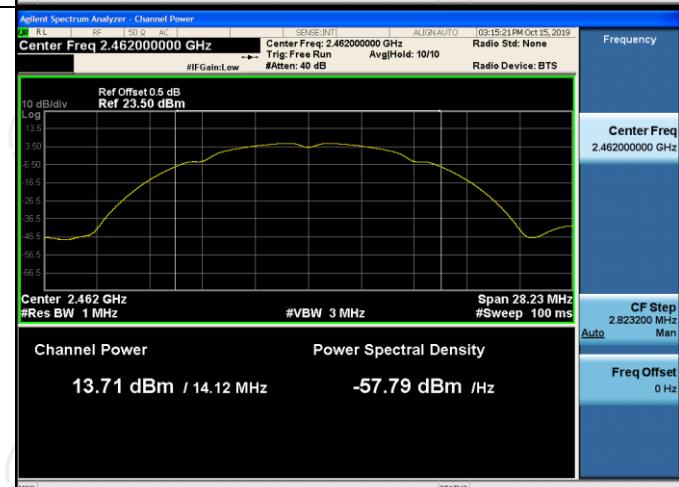
Test Graph



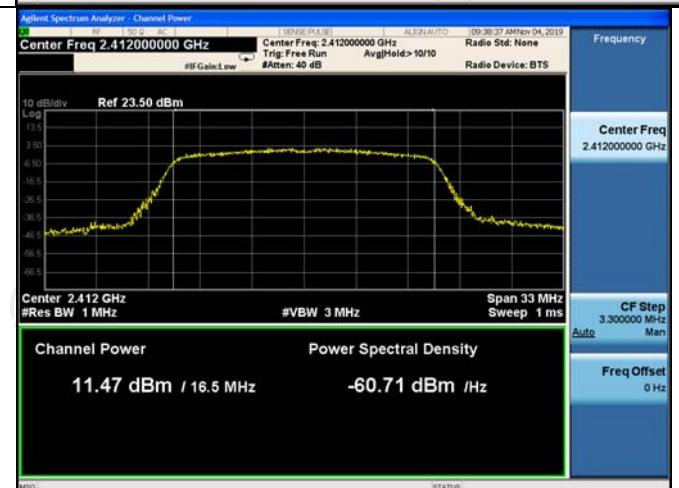
11B/MCH



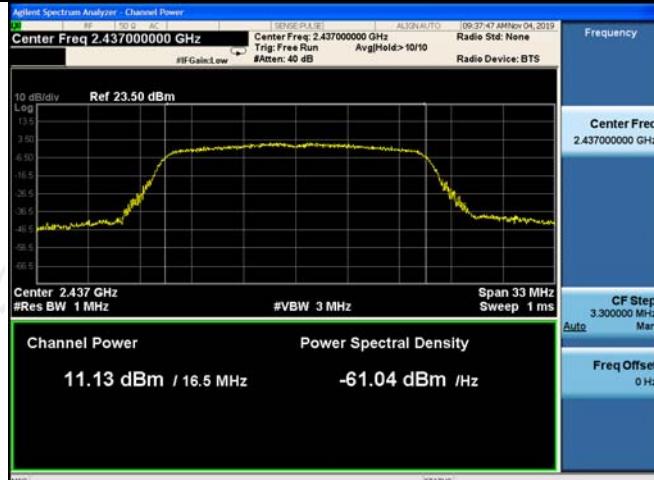
11B/HCH



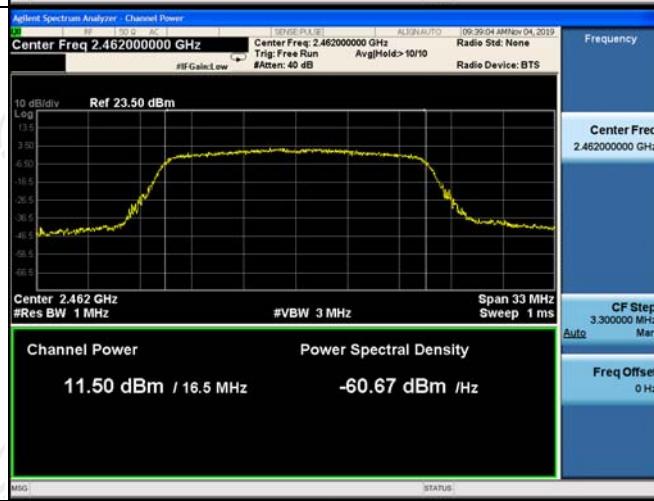
11G/LCH



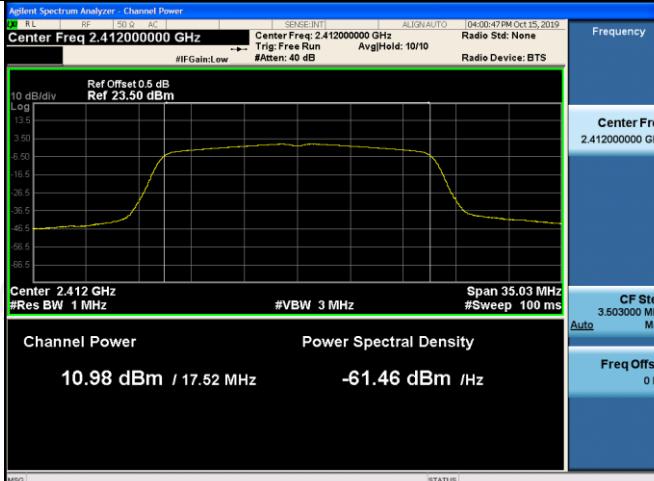
11G/MCH



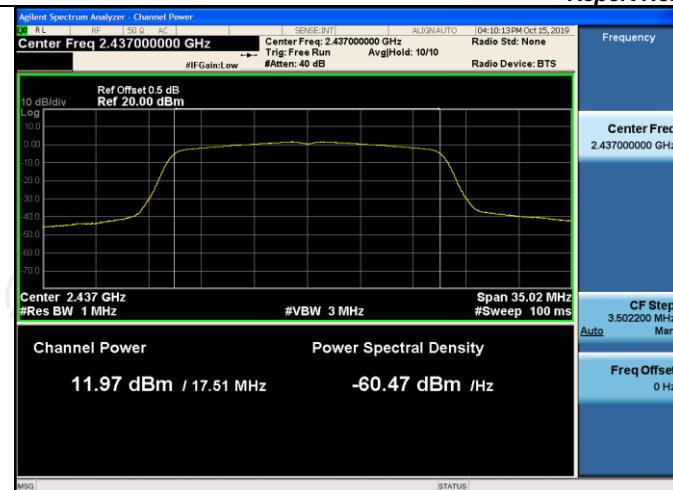
11G/HCH



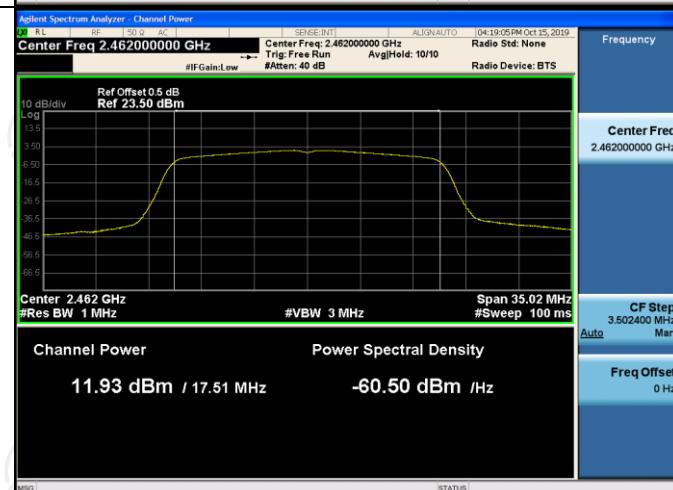
11N20SISO/LCH



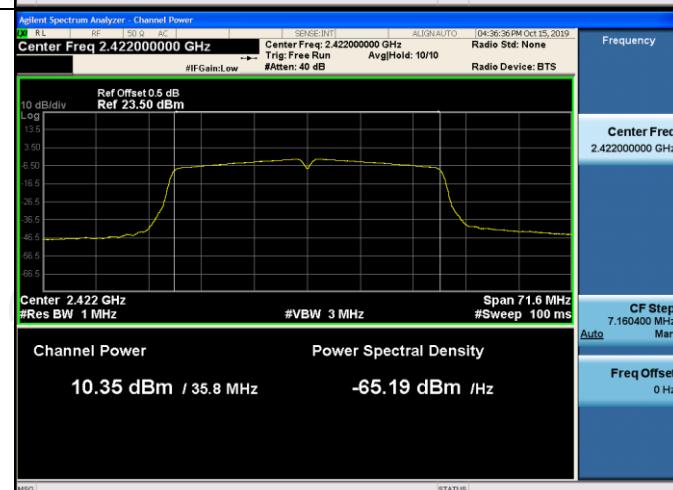
11N20SISO/MCH



11N20SISO/HCH



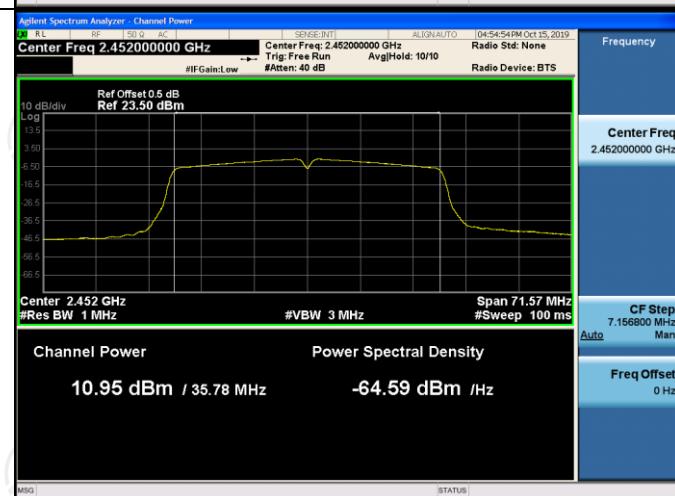
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

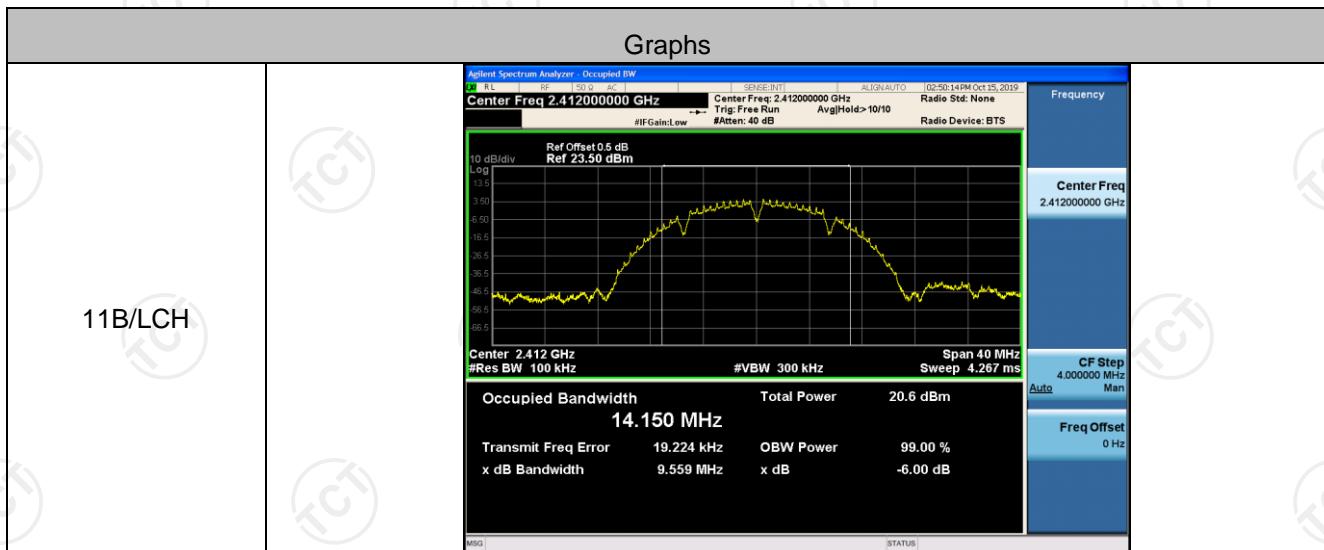


6dB Occupied Bandwidth

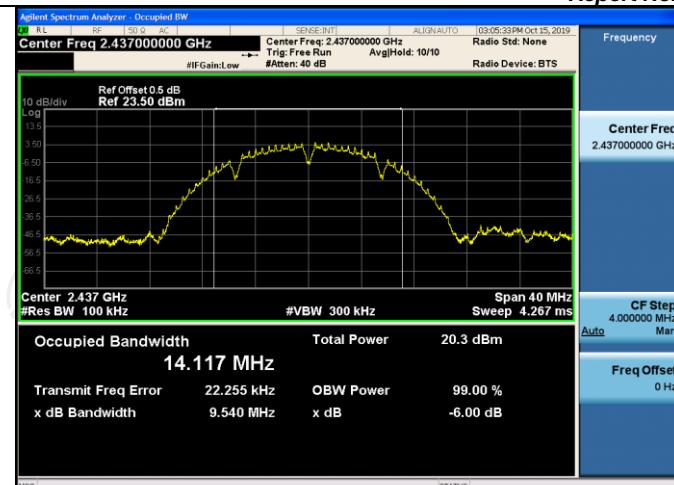
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	9.559	14.150	PASS
11B	MCH	9.540	14.117	PASS
11B	HCH	9.052	14.116	PASS
11G	LCH	16.35	16.464	PASS
11G	MCH	16.29	16.325	PASS
11G	HCH	16.27	16.334	PASS
11N20SISO	LCH	17.33	17.515	PASS
11N20SISO	MCH	17.32	17.511	PASS
11N20SISO	HCH	17.53	17.512	PASS
11N40SISO	LCH	35.65	35.802	PASS
11N40SISO	MCH	34.67	35.814	PASS
11N40SISO	HCH	35.72	35.784	PASS

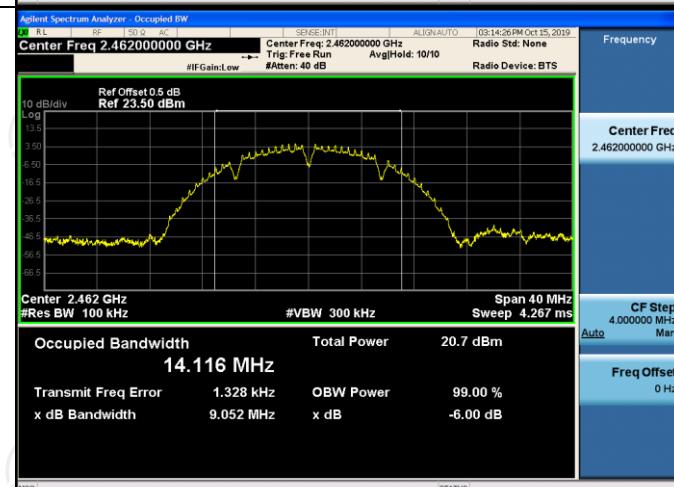
Test Graph



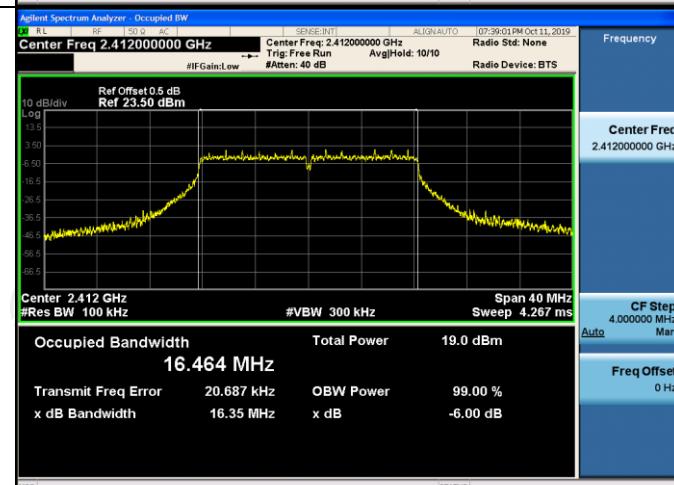
11B/MCH

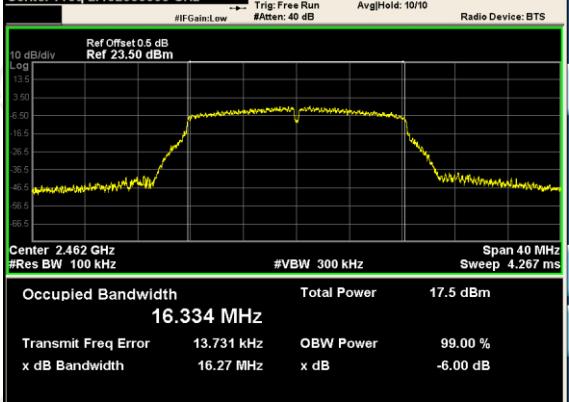


11B/HCH

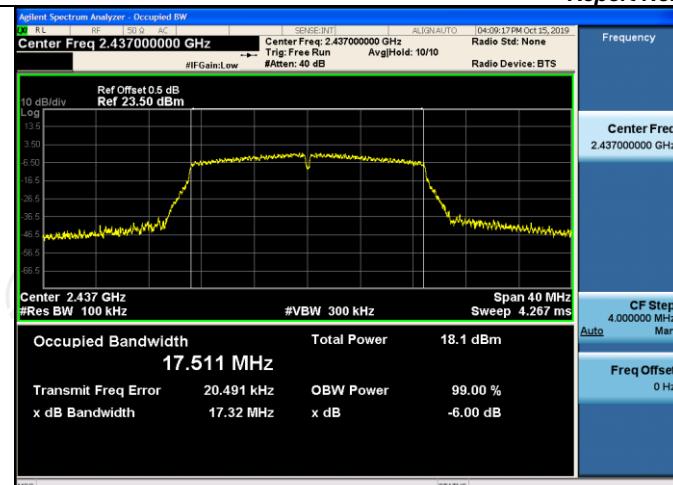


11G/LCH



11G/MCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 0.5 dB</p> <p>Ref 23.50 dBm</p> <p>10 dB/div</p> <p>Log</p>  <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz</p> <p>Sweep 4.267 ms</p> <p>Occupied Bandwidth 16.325 MHz</p> <p>Total Power 17.2 dBm</p> <p>Transmit Freq Error 17.856 kHz</p> <p>x dB Bandwidth 16.29 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p> <p>MSG</p> <p>STATUS</p>	<p>Frequency</p> <p>Center Freq 2.437000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
11G/HCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 0.5 dB</p> <p>Ref 23.50 dBm</p> <p>10 dB/div</p>  <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz</p> <p>Sweep 4.267 ms</p> <p>Occupied Bandwidth 16.334 MHz</p> <p>Total Power 17.5 dBm</p> <p>Transmit Freq Error 13.731 kHz</p> <p>x dB Bandwidth 16.27 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p> <p>MSG</p> <p>STATUS</p>	<p>Frequency</p> <p>Center Freq 2.462000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>
11N20SISO/LCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 0.5 dB</p> <p>Ref 23.50 dBm</p> <p>10 dB/div</p>  <p>Center 2.412 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz</p> <p>Sweep 4.267 ms</p> <p>Occupied Bandwidth 17.515 MHz</p> <p>Total Power 17.1 dBm</p> <p>Transmit Freq Error 15.040 kHz</p> <p>x dB Bandwidth 17.33 MHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p> <p>MSG</p> <p>STATUS</p>	<p>Frequency</p> <p>Center Freq 2.412000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Auto</p> <p>Freq Offset 0 Hz</p>

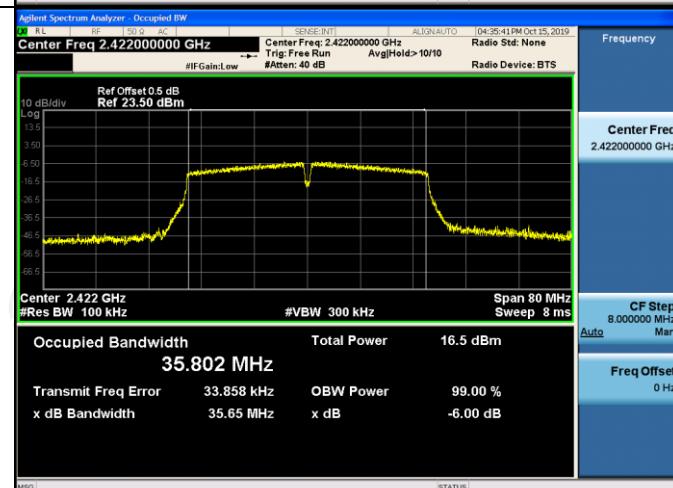
11N20SISO/MCH



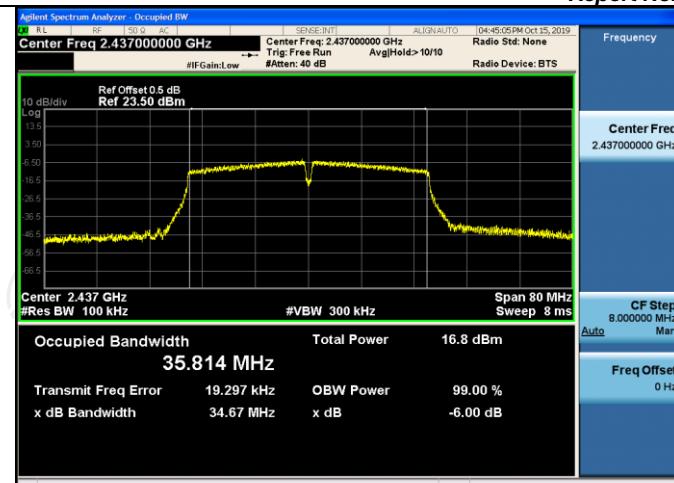
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

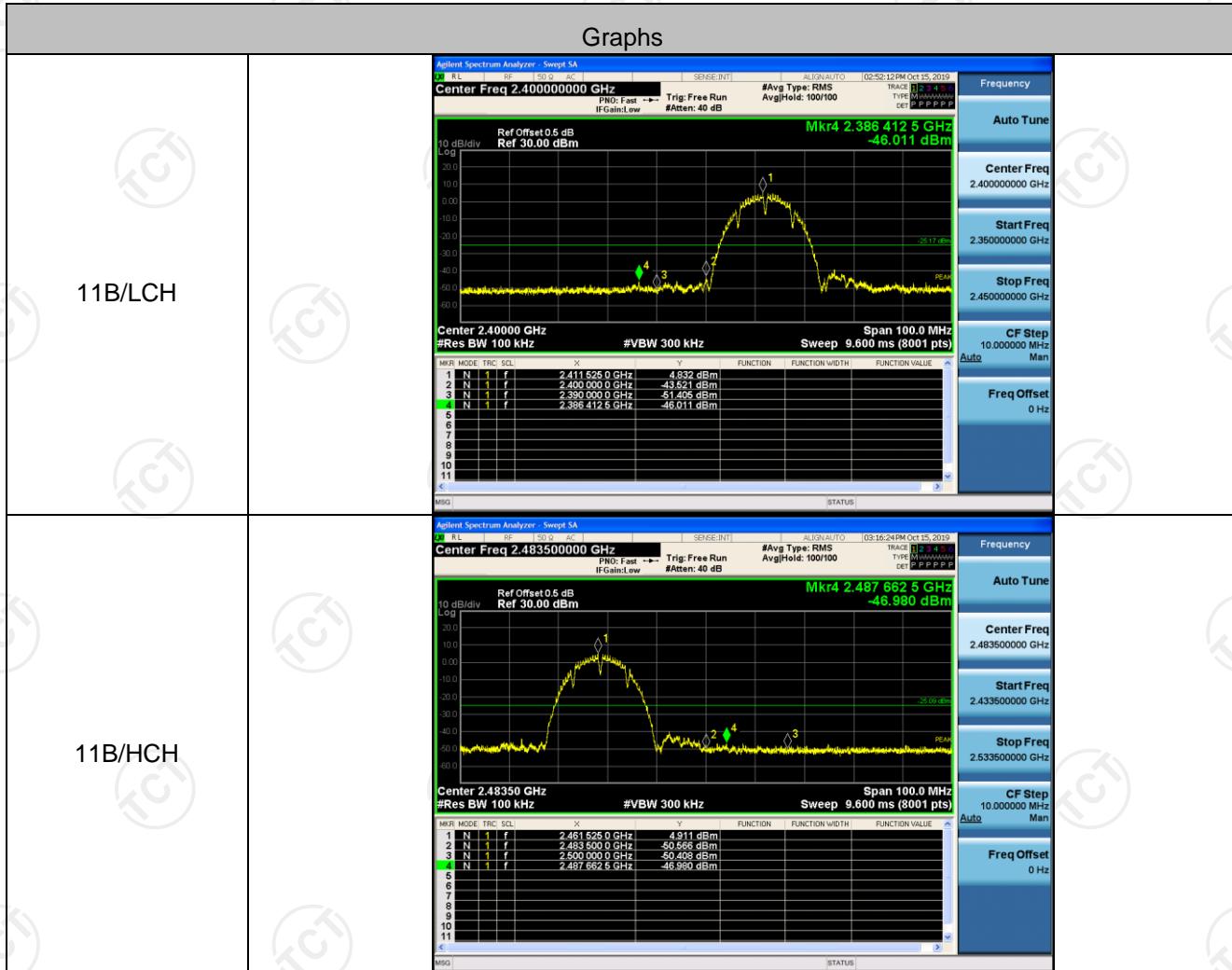


Band-edge for RF Conducted Emissions

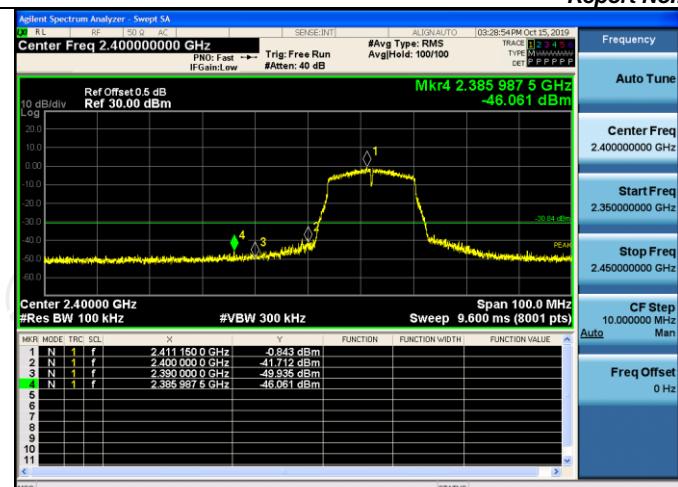
Result Table

Mode	Channel	Carrier Power [dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.832	-46.011	-25.17	PASS
11B	HCH	4.911	-46.980	-25.09	PASS
11G	LCH	-0.843	-46.061	-30.84	PASS
11G	HCH	-1.564	-45.613	-31.56	PASS
11N20SISO	LCH	-2.243	-46.937	-32.24	PASS
11N20SISO	HCH	-1.069	-45.246	-31.07	PASS
11N40SISO	LCH	-5.035	-45.389	-35.04	PASS
11N40SISO	HCH	-5.106	-40.963	-35.11	PASS

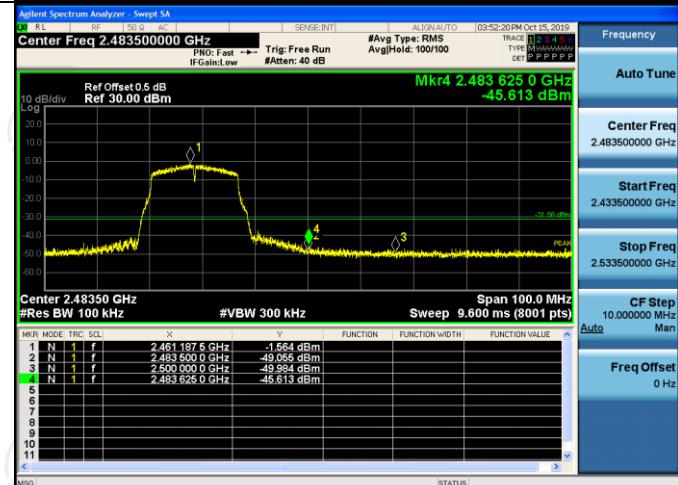
Test Graph



11G/LCH



11G/HCH



11N20SISO/LCH

