

## TEST REPORT

**Product** : PROJECTOR  
**Trade mark** : Victsing  
**Model/Type reference** : BH486A  
**Serial Number** : N/A  
**Report Number** : EED32M00257801  
**FCC ID** : 2AIL4-BH486A  
**Date of Issue** : Nov. 19, 2020  
**Test Standards** : 47 CFR Part 15Subpart C  
**Test result** : PASS

Prepared for:

**VTIN TECHNOLOGY CO., LIMITED  
UNIT D 16/F ONE CAPITAL PLACE 21  
LUARD ROAD WAN CHAI HK**

Prepared by:

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Nov. 19, 2020

Aaron Ma



Check No.:4762139138

## 2 Version

Version No.	Date	Description
00	Nov. 19, 2020	Original

### 3 Test Summary

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
<b>Conducted Peak Output Power</b>	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013	PASS
<b>6dB Occupied Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013	PASS
<b>Power Spectral Density</b>	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013	PASS
<b>Band-edge for RF Conducted Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
<b>RF Conducted Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS
<b>Radiated Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

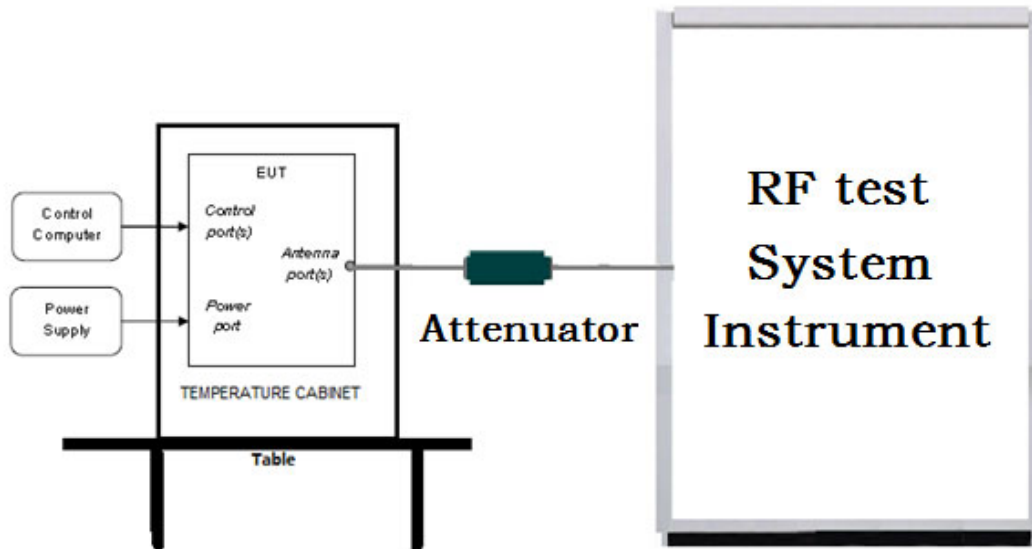
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

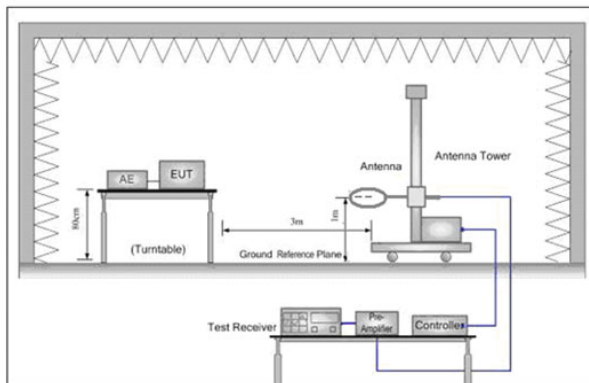


Figure 1. Below 30MHz

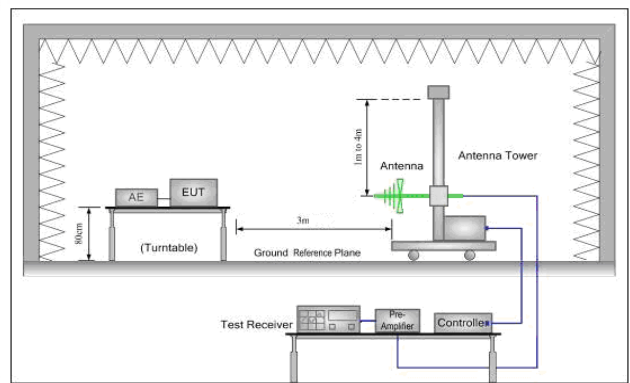


Figure 2. 30MHz to 1GHz

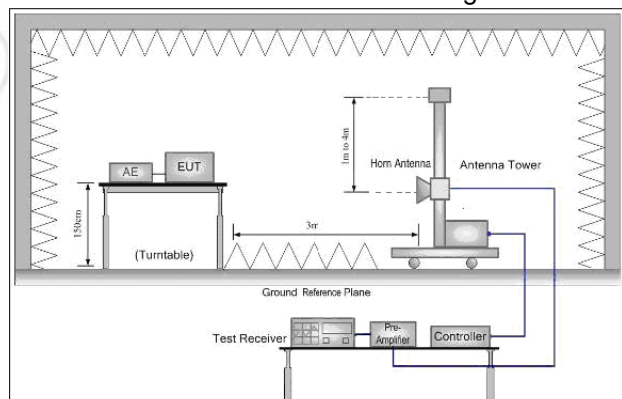
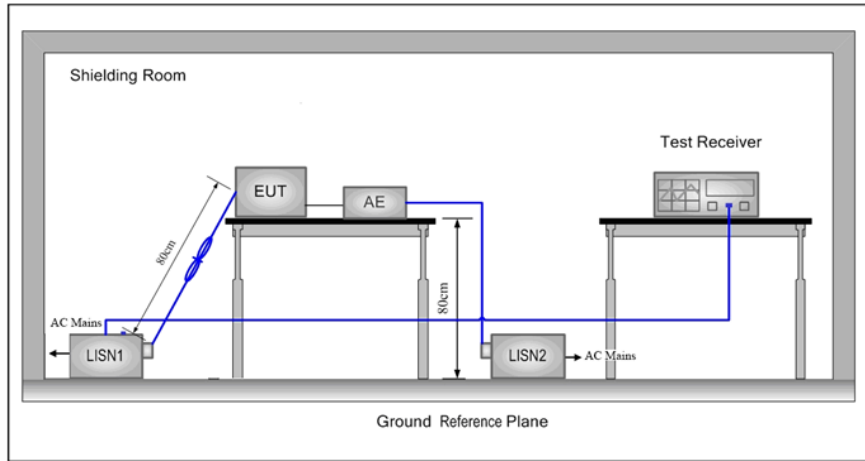


Figure 3. Above 1GHz



**5.1.3 For Conducted Emissions test setup**  
**Conducted Emissions setup**



**5.2 Test Environment**

<b>Operating Environment:</b>	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010mbar

**5.3 Test Condition**

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11b/g/n(HT20)	2412MHz ~2462 MHz	Channel 1	Channel 6	Channel11
		2412MHz	2437MHz	2462MHz
802.11n(HT40)	2422MHz ~2452 MHz	Channel 1	Channel 4	Channel7
		2422MHz	2437MHz	2452MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

Test mode:

Pre-scan under all rate at lowest channel 1

<b>Mode</b>	<b>802.11b</b>				X				
<b>Data Rate</b>	<b>1Mbps</b>	<b>2Mbps</b>	<b>5.5Mbps</b>	<b>11Mbps</b>					
<b>Power(dBm)</b>	9.63	9.6	9.57	9.55					
<b>Mode</b>	<b>802.11g</b>								
<b>Data Rate</b>	<b>6Mbps</b>	<b>9Mbps</b>	<b>12Mbps</b>	<b>18Mbps</b>	<b>24Mbps</b>	<b>36Mbps</b>	<b>48Mbps</b>	<b>54Mbps</b>	
<b>Power(dBm)</b>	7.92	7.90	7.87	7.85	7.82	7.80	7.77	7.75	
<b>Mode</b>	<b>802.11n (HT20)</b>								
<b>Data Rate</b>	<b>6.5Mbps</b>	<b>13Mbps</b>	<b>19.5Mbps</b>	<b>26Mbps</b>	<b>39Mbps</b>	<b>52Mbps</b>	<b>58.5Mbps</b>	<b>65Mbps</b>	
<b>Power(dBm)</b>	7.87	7.85	7.82	7.80	7.77	7.74	7.72	7.71	
<b>Mode</b>	<b>802.11n (HT40)</b>								
<b>Data Rate</b>	<b>13.5Mbps</b>	<b>27Mbps</b>	<b>40.5Mbps</b>	<b>54Mbps</b>	<b>81Mbps</b>	<b>108Mbps</b>	<b>121.5Mbps</b>	<b>135Mbps</b>	
<b>Power(dBm)</b>	7.53	7.51	7.48	7.45	7.42	7.39	7.37	7.34	

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).

## 6 General Information

### 6.1 Client Information

Applicant:	VTIN TECHNOLOGY CO., LIMITED
Address of Applicant:	UNIT D 16/F ONE CAPITAL PLACE 21 LUARD ROAD WAN CHAI HK
Manufacturer:	VTIN TECHNOLOGY CO., LIMITED
Address of Manufacturer:	UNIT D 16/F ONE CAPITAL PLACE 21 LUARD ROAD WAN CHAI HK
Factory:	VTIN TECHNOLOGY CO., LIMITED
Address of Factory:	UNIT D 16/F ONE CAPITAL PLACE 21 LUARD ROAD WAN CHAI HK

### 6.2 General Description of EUT

Product Name:	PROJECOR
Model No.(EUT):	BH486A
Trade mark:	Victsing
EUT Supports Radios application:	IEEE 802.11 b/g/n(HT20)(HT40): 2412MHz to 2462MHz
Power Supply:	AC 100-240V~ 50/60Hz
Sample Received Date:	Aug.24, 2020
Sample tested Date:	Aug.24, 2020 to Oct. 10, 2020

### 6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK)
Test Power Grade:	Default
Test Software of EUT:	Secure CRT
Antenna Type and Gain:	Type:Internal antenna Gain: 2dBi
Test Voltage:	AC 120V/60Hz



Operation Frequency each of channel(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(802.11n HT40)								
Channel	Frequency	Channel	Frequency	Channel	Frequency			
1	2422MHz	4	2437MHz	7	2452MHz			
2	2427MHz	5	2442MHz					
3	2432MHz	6	2447MHz					

## 6.4 Description of Support Units

The EUT has been tested with associated equipment below.

Associated equipment name		Manufacture	model	S/N serial number	Supplied by	Certification
AE1	Notebook	HP	HP ProBook 430 G3	5CG5192QSM	CTI	CE&FCC

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd  
 Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China  
 Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385  
 No tests were sub-contracted.  
 FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

## 6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

## 7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020	02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020	02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-29-2020	06-28-2021
High-pass filter	Sinoscite	FL3CX03WG18N M12-0398-002	---	---	---
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	02-17-2020	02-16-2021
PC-1	Lenovo	R4960d	---	---	---
BT&WI-FI Automatic control	R&S	OSP120	101374	02-17-2020	02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020	02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-28-2020	04-27-2021
Temperature/ Humidity Indicator	Defu	TH128	/	---	---
LISN	R&S	ENV216	100098	03-05-2020	03-04-2021
Barometer	changchun	DYM3	1188	---	---

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2020	05-15-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938-003	10-21-2019	10-20-2020
Multi device Controller	matturo	NCD/070/107 11112	---	---	---
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020	06-28-2021
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRIOLOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020	01-08-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---



## 8 Radio Technical Requirements Specification

### Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

### Test Results List:

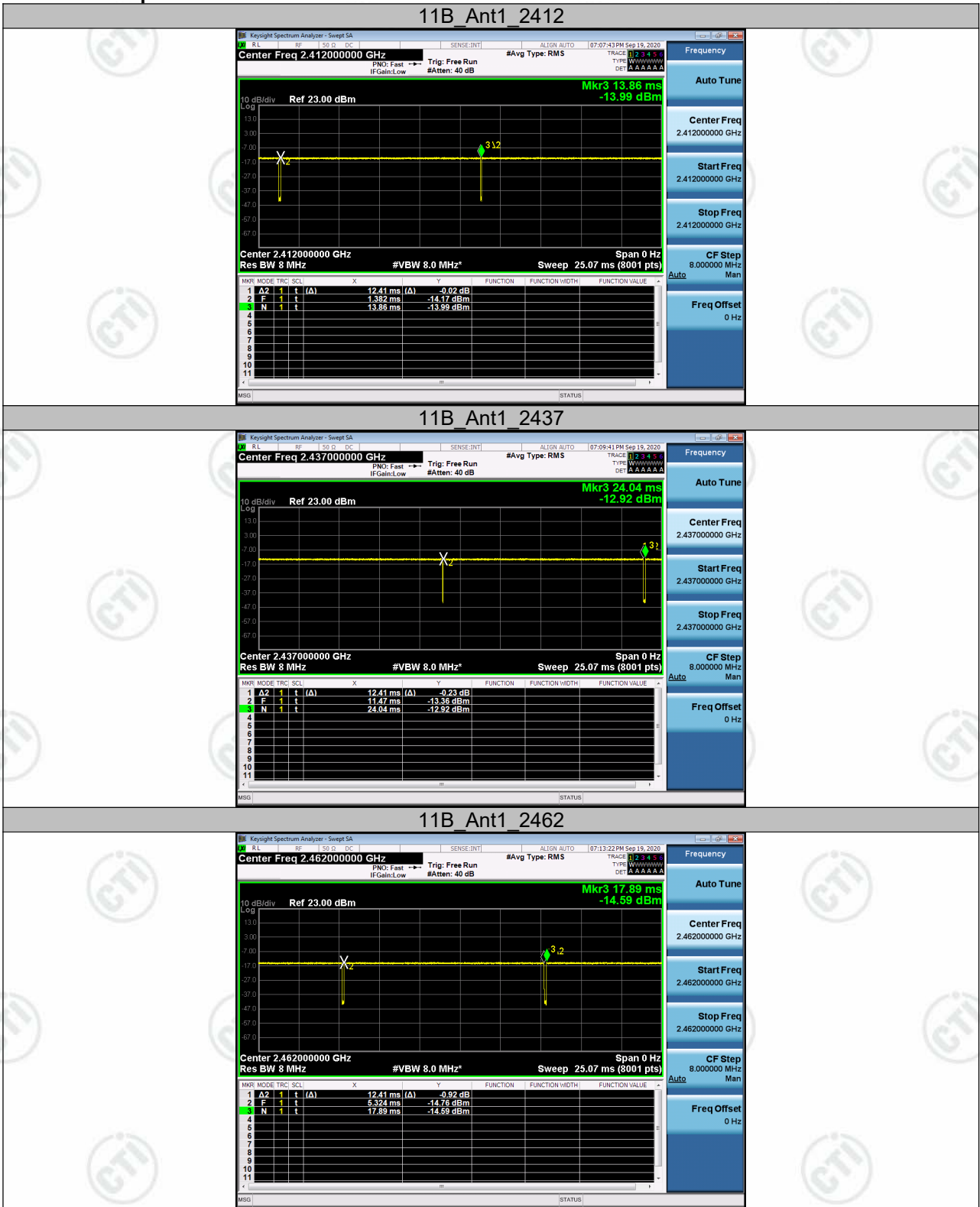
Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

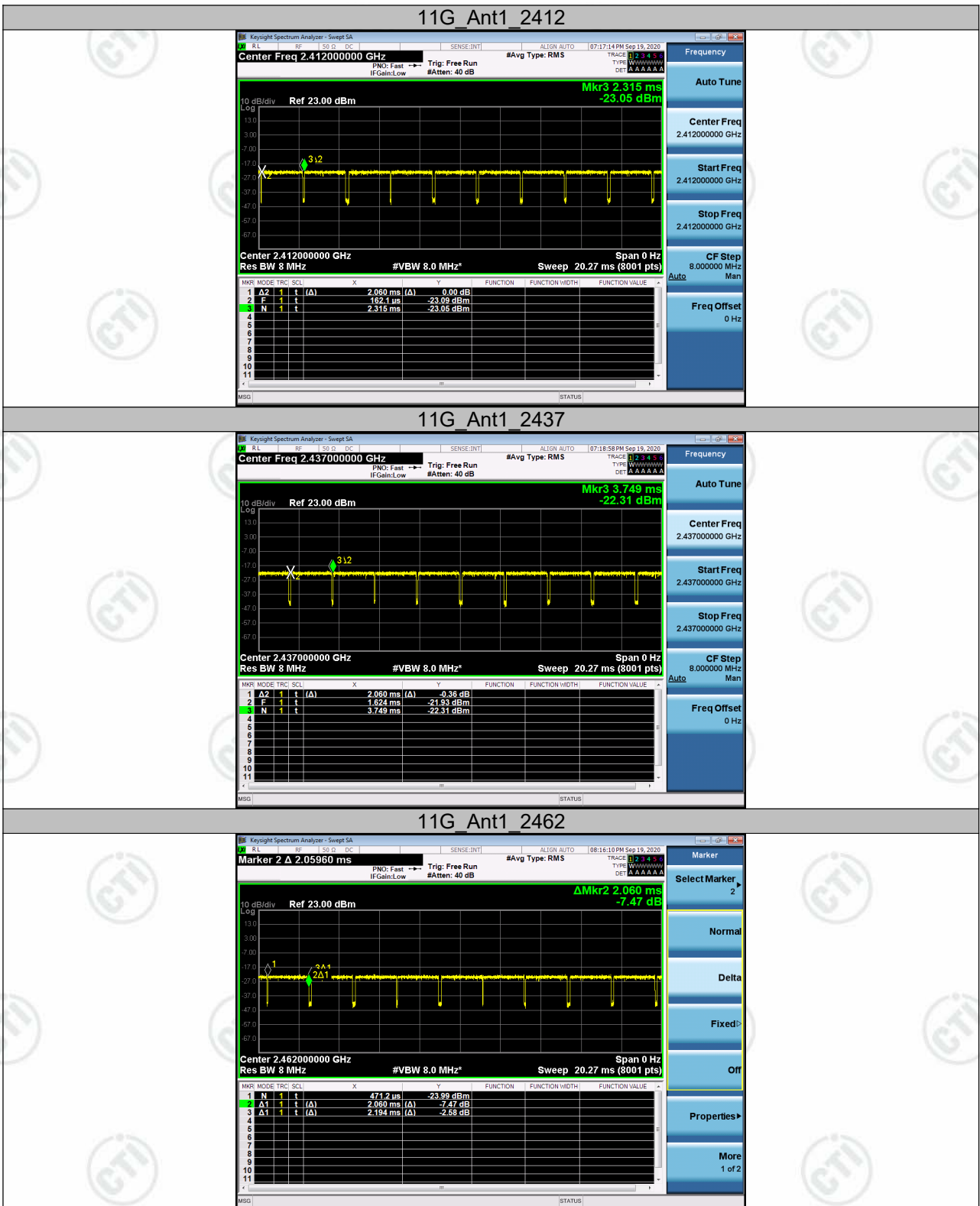
**EUT DUTY CYCLE**

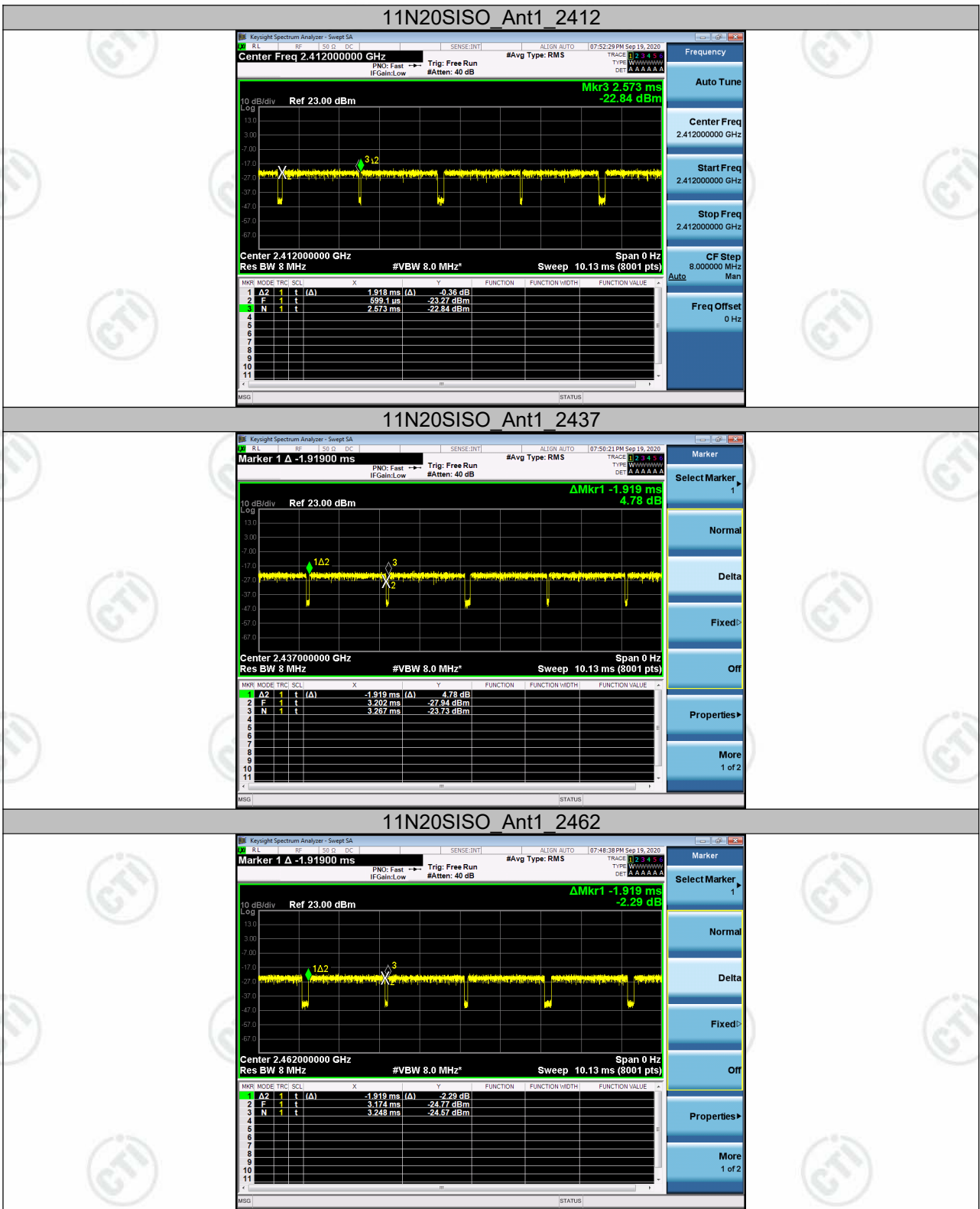
**Result Table**

Test Mode	Antenna	Channel	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	99.52	---	PASS
	Ant1	2437	98.8	---	PASS
	Ant1	2462	98.75	---	PASS
11G	Ant1	2412	95.65	---	PASS
	Ant1	2437	96.9	---	PASS
	Ant1	2462	93.9	---	PASS
11N20SISO	Ant1	2412	97.2	---	PASS
	Ant1	2437	98.0	---	PASS
	Ant1	2462	97.7	---	PASS
11N40SISO	Ant1	2422	91.3	---	PASS
	Ant1	2437	87.3	---	PASS
	Ant1	2452	97.5	---	PASS

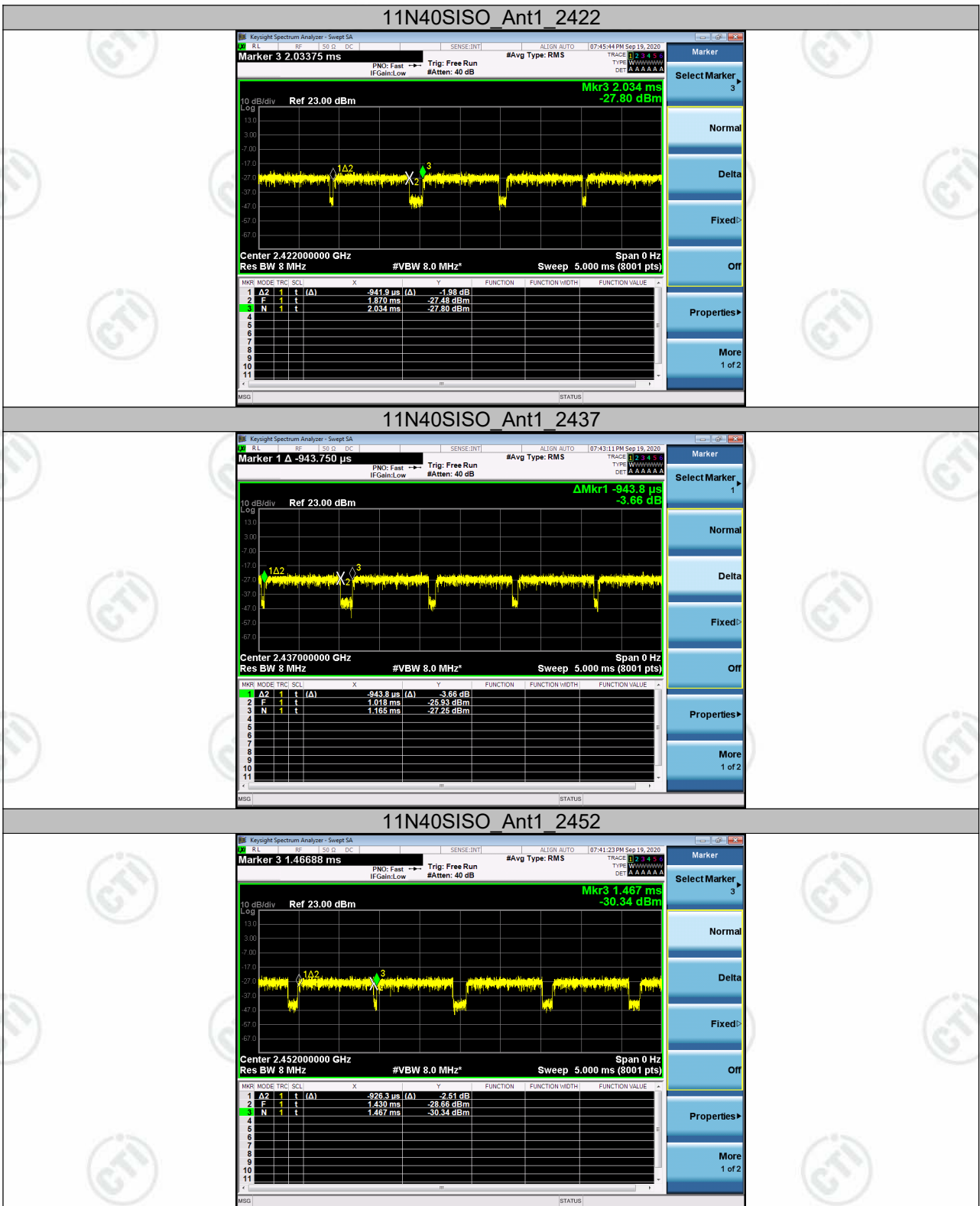
**Test Graph**











## Appendix A): Conducted Peak Output Power

### Test Limit

According to §15.247(b)(3),

### Peak output power:

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt(30 dBm), base on the use of antennas with directional gain not exceed 6 dBi. If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi: 30dBm <input type="checkbox"/> Antenna with DG greater than 6 dBi: [Limit = 30 – (DG – 6)] <input type="checkbox"/> Point-to-point operation:
-------	--

**Average output power:** For reporting purposes only.

### Test Procedure

Test method Refer as KDB 558074 D01.

1. The EUT RF output connected to spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT.
3. Spectrum analyzer settings are as follows :
  - a) Set the RBW = 1 MHz.
  - b) Set the VBW ≥ [3 × RBW].
  - c) Set the span ≥ [1.5 × DTS bandwidth].
  - d) Detector = peak.
  - e) Sweep time = auto couple.
  - f) Trace mode = max hold.
  - g) Allow trace to fully stabilize.
  - h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges
4. Measure and record the result in the test report.

### Test Setup



**Test Result**

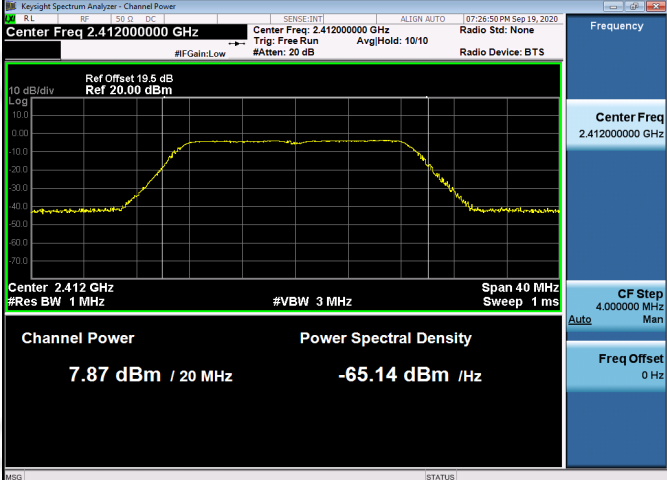
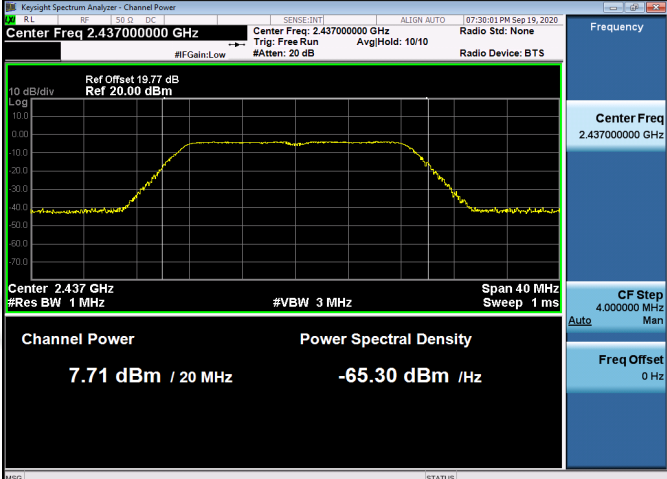
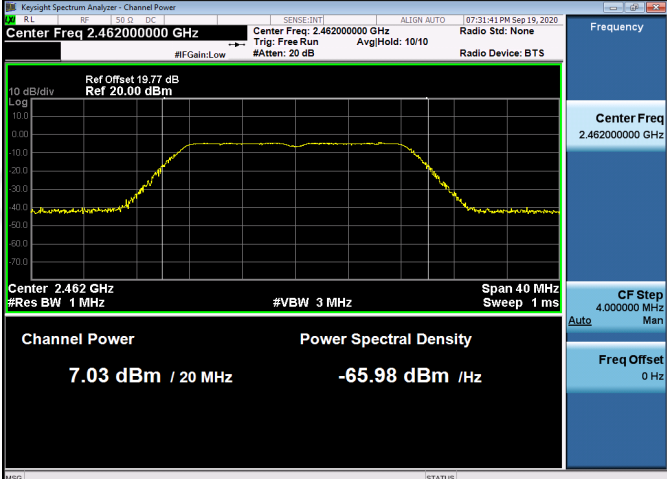
Mode	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	LCH	9.63	PASS
11B	MCH	8.30	PASS
11B	HCH	9.00	PASS
11G	LCH	7.92	PASS
11G	MCH	7.77	PASS
11G	HCH	7.01	PASS
11N20SISO	LCH	7.87	PASS
11N20SISO	MCH	7.71	PASS
11N20SISO	HCH	7.03	PASS
11N40SISO	LCH	7.53	PASS
11N40SISO	MCH	6.36	PASS
11N40SISO	HCH	6.78	PASS

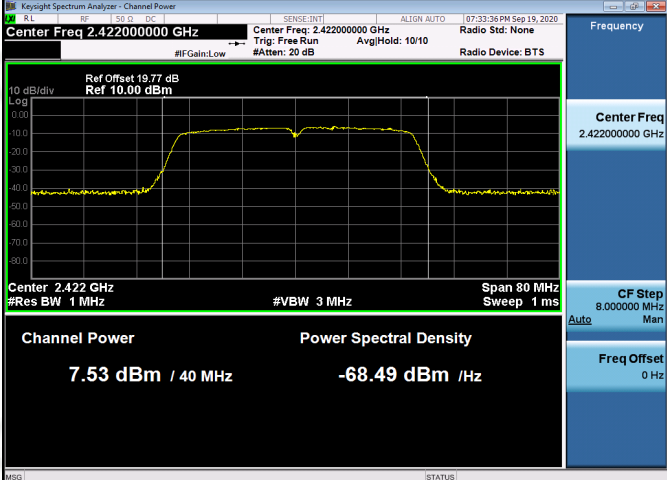
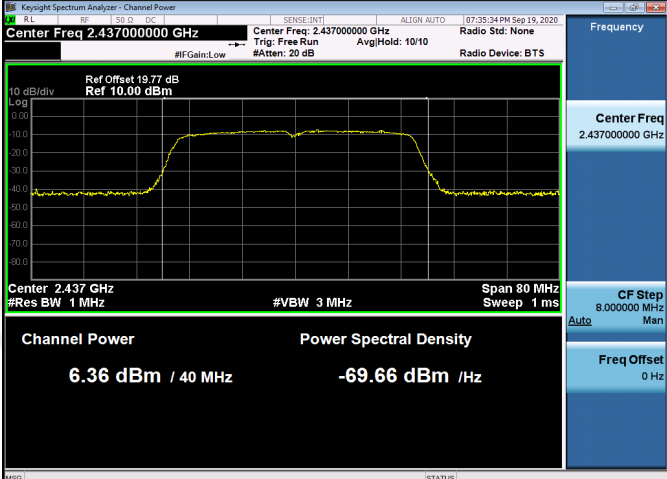
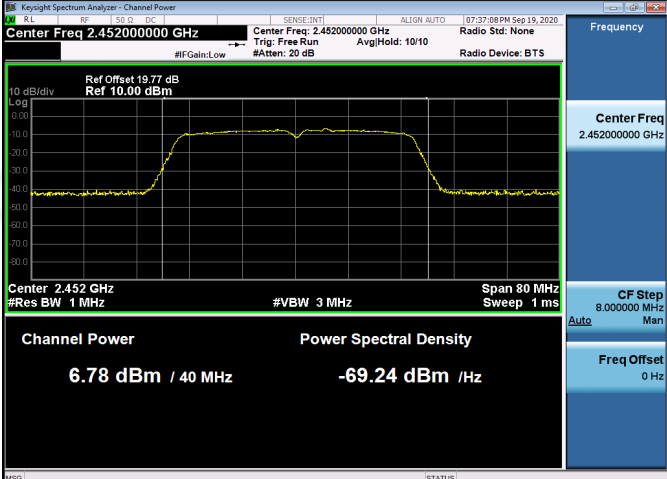
**Test Graph**



<p>11G/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.5 dB Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 7.92 dBm / 20 MHz Power Spectral Density: -65.09 dBm / Hz</p>
<p>11G/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 7.77 dBm / 20 MHz Power Spectral Density: -65.24 dBm / Hz</p>
<p>11G/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 7.01 dBm / 20 MHz Power Spectral Density: -66.00 dBm / Hz</p>



<p>11N20SISO/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.5 dB Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 7.87 dBm / 20 MHz Power Spectral Density: -65.14 dBm / Hz</p>
<p>11N20SISO/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 7.71 dBm / 20 MHz Power Spectral Density: -65.30 dBm / Hz</p>
<p>11N20SISO/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 7.03 dBm / 20 MHz Power Spectral Density: -65.98 dBm / Hz</p>

<p>11N40SISO/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Center 2.422 GHz #Res BW 1 MHz</p> <p>Channel Power: 7.53 dBm / 40 MHz</p> <p>Power Spectral Density: -68.49 dBm / Hz</p>
<p>11N40SISO/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>Channel Power: 6.36 dBm / 40 MHz</p> <p>Power Spectral Density: -69.66 dBm / Hz</p>
<p>11N40SISO/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Center 2.452 GHz #Res BW 1 MHz</p> <p>Channel Power: 6.78 dBm / 40 MHz</p> <p>Power Spectral Density: -69.24 dBm / Hz</p>

**Appendix B): 6dB Occupied Bandwidth**

**Test Limit**

According to §15.247(a)(2),

**6 dB Bandwidth :**

Limit	Shall be at least 500kHz
-------	--------------------------

**Occupied Bandwidth(99%) :** For reporting purposes only.

**Test Procedure**

Test method Refer as KDB 558074 D01 and ANSI C63.10: 2013 clause 6.9.2,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW =100KHz , VBW = 300KHz and Detector = Peak, to measurement 6dB Bandwidth
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

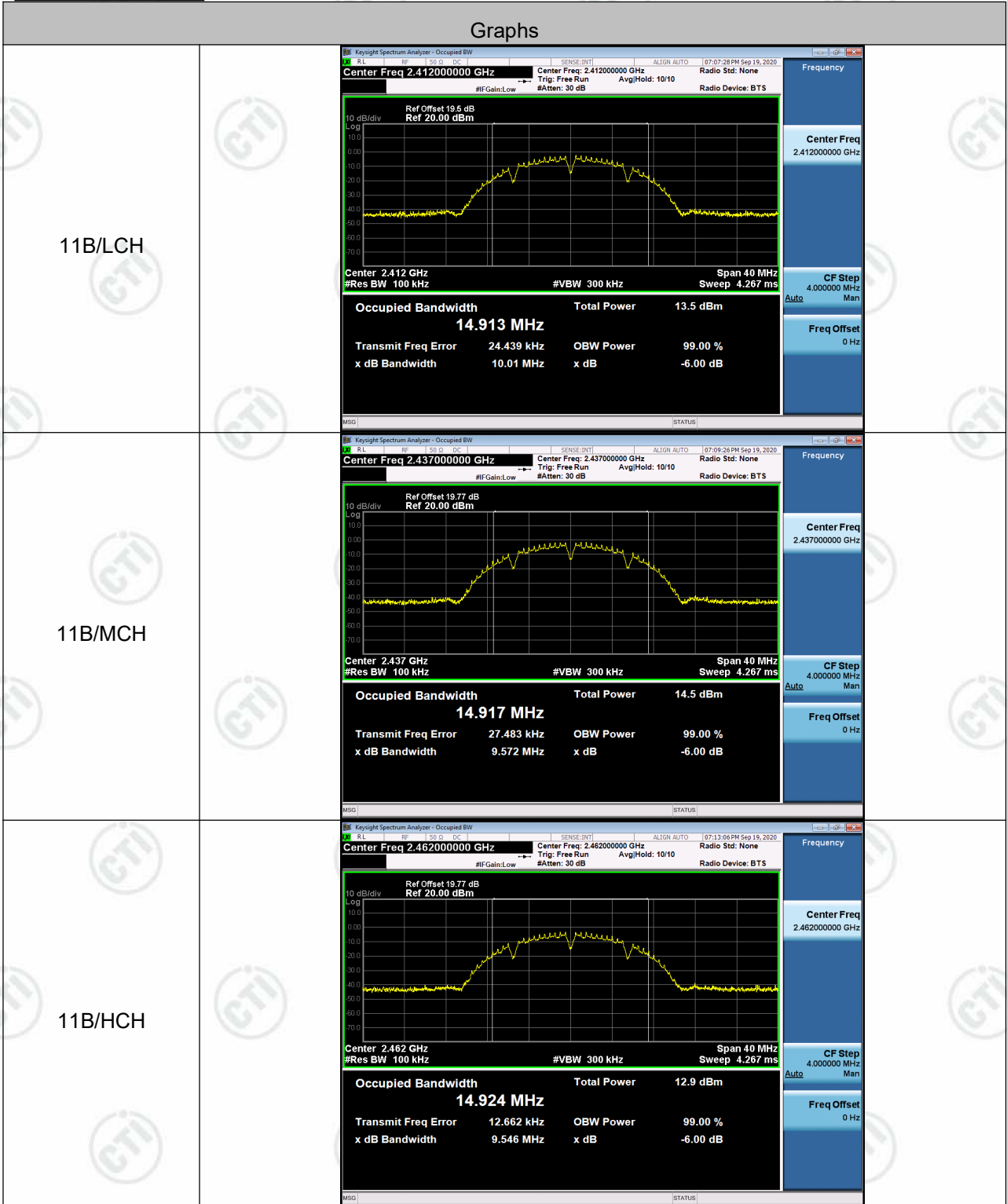
**Test Setup**



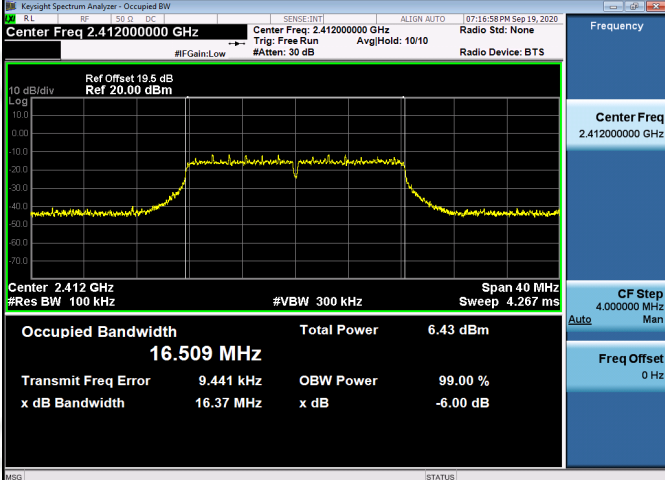
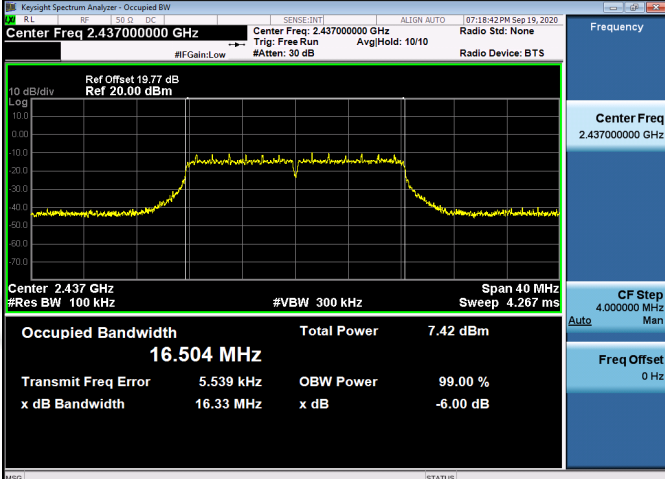
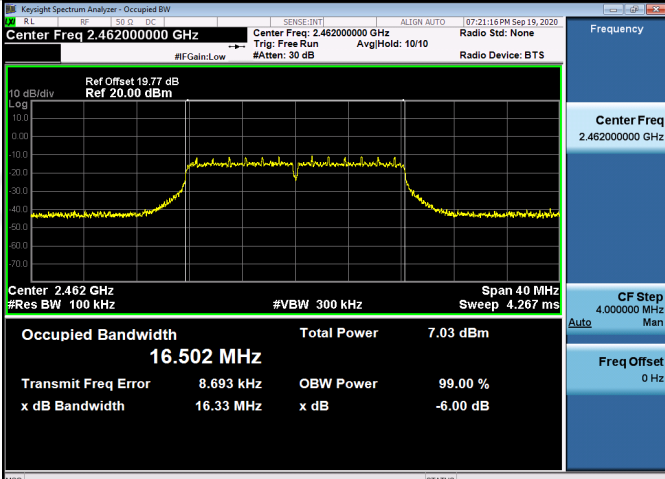
**Test Result**

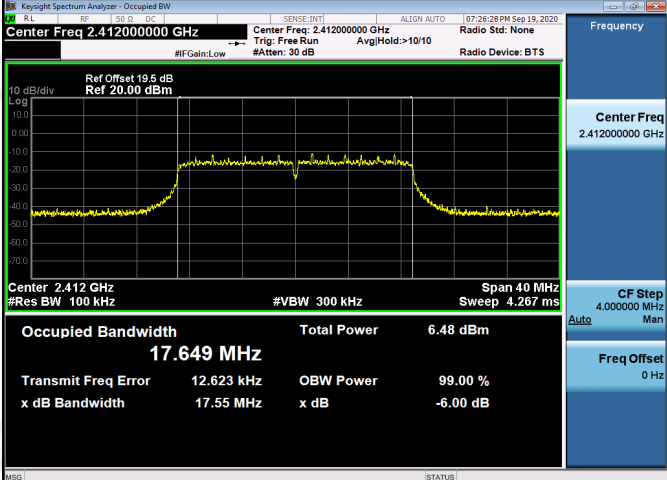
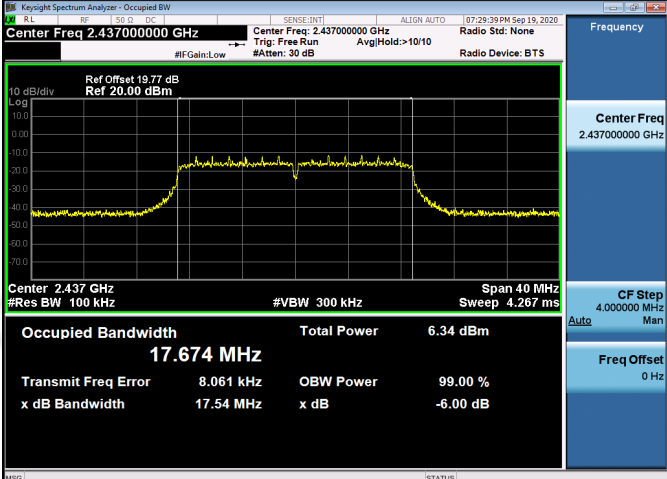
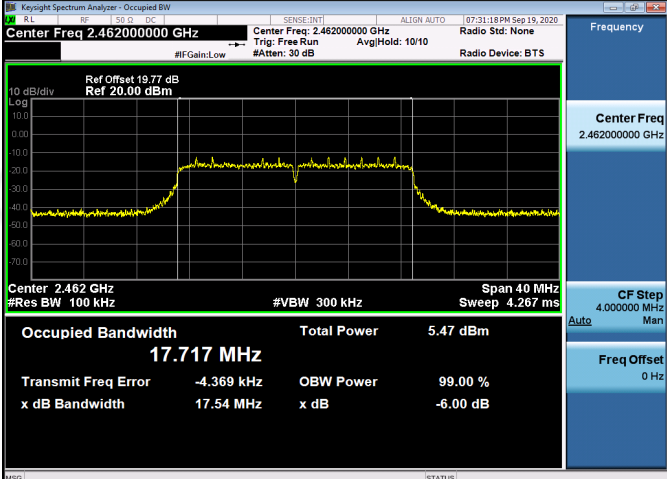
Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	10.01	15.135	PASS
11B	MCH	9.572	15.102	PASS
11B	HCH	9.546	15.140	PASS
11G	LCH	16.37	16.975	PASS
11G	MCH	16.33	17.041	PASS
11G	HCH	16.33	16.915	PASS
11N20SISO	LCH	17.55	17.960	PASS
11N20SISO	MCH	17.54	18.106	PASS
11N20SISO	HCH	17.54	18.116	PASS
11N40SISO	LCH	35.08	36.250	PASS
11N40SISO	MCH	35.14	36.536	PASS
11N40SISO	HCH	35.12	36.455	PASS

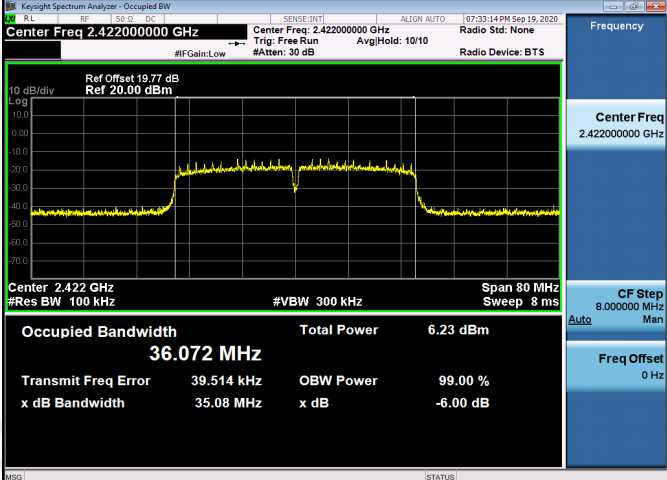
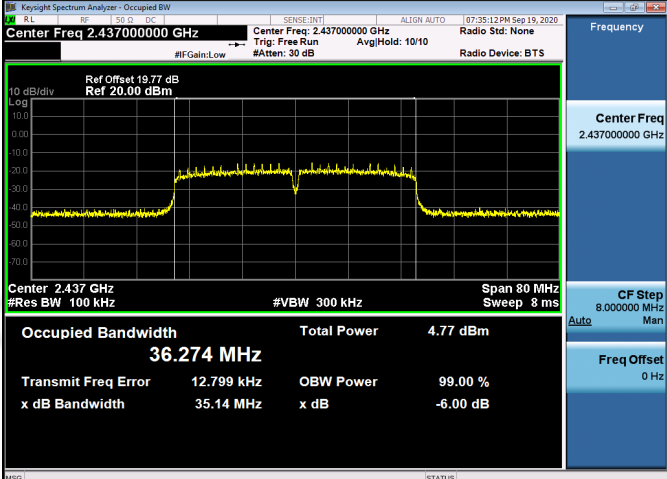
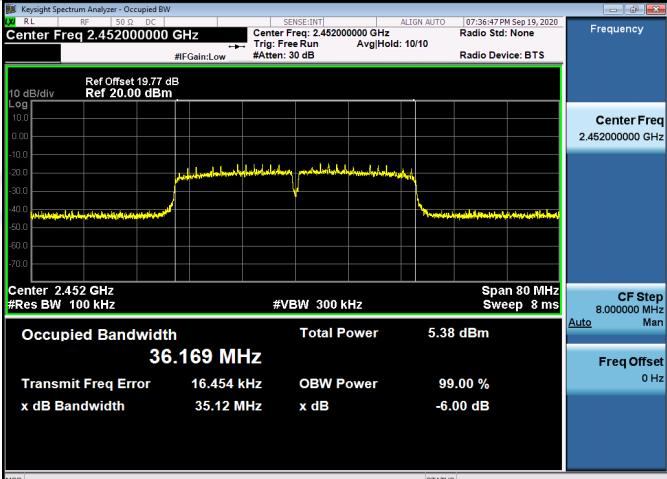
**Test Graph**  
**6 dB Bandwidth**



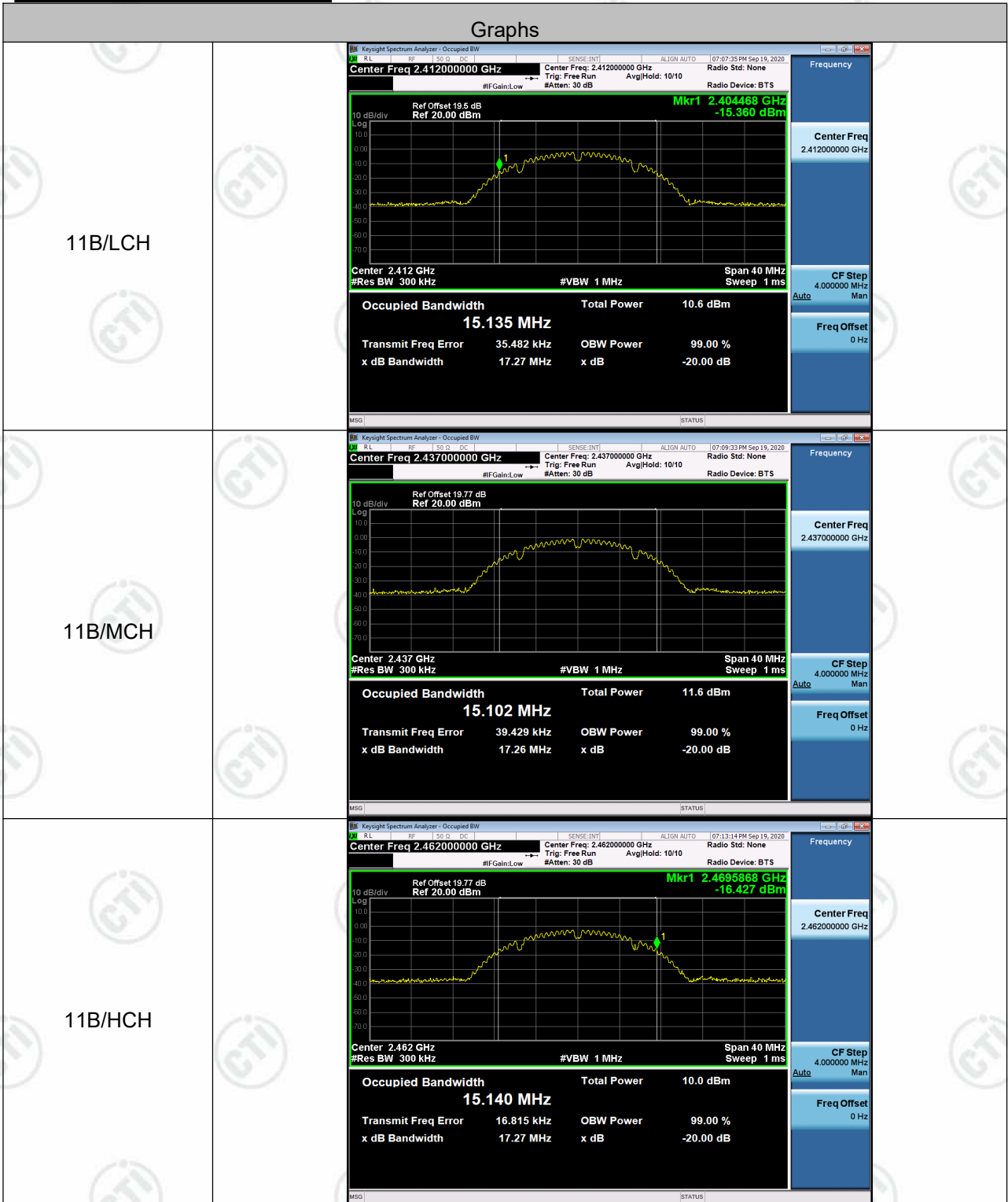


<p>11G/LCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 19.5 dB Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>16.509 MHz</b> Total Power 6.43 dBm</p> <p>Transmit Freq Error 9.441 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.37 MHz x dB -6.00 dB</p>
<p>11G/MCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>16.504 MHz</b> Total Power 7.42 dBm</p> <p>Transmit Freq Error 5.539 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.33 MHz x dB -6.00 dB</p>
<p>11G/HCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>16.502 MHz</b> Total Power 7.03 dBm</p> <p>Transmit Freq Error 8.693 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.33 MHz x dB -6.00 dB</p>

<p>11N20SISO/LCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset 19.5 dB Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>17.649 MHz</b></p> <p>Total Power 6.48 dBm</p> <p>Transmit Freq Error 12.623 kHz x dB Bandwidth 17.55 MHz</p> <p>OBW Power 99.00 % x dB -6.00 dB</p>
<p>11N20SISO/MCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>17.674 MHz</b></p> <p>Total Power 6.34 dBm</p> <p>Transmit Freq Error 8.061 kHz x dB Bandwidth 17.54 MHz</p> <p>OBW Power 99.00 % x dB -6.00 dB</p>
<p>11N20SISO/HCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth <b>17.717 MHz</b></p> <p>Total Power 5.47 dBm</p> <p>Transmit Freq Error -4.369 kHz x dB Bandwidth 17.54 MHz</p> <p>OBW Power 99.00 % x dB -6.00 dB</p>

<p>11N40SISO/LCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.42200000 GHz</p> <p>Center Freq: 2.42200000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>10 dB/div</p> <p>Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 3 ms</p> <p><b>Occupied Bandwidth</b> 36.072 MHz <b>Total Power</b> 6.23 dBm</p> <p>Transmit Freq Error 39.514 kHz OBW Power 99.00 % x dB Bandwidth 35.08 MHz x dB -6.00 dB</p> <p>Frequency Center Freq 2.42200000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz</p>
<p>11N40SISO/MCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>10 dB/div</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 3 ms</p> <p><b>Occupied Bandwidth</b> 36.274 MHz <b>Total Power</b> 4.77 dBm</p> <p>Transmit Freq Error 12.799 kHz OBW Power 99.00 % x dB Bandwidth 35.14 MHz x dB -6.00 dB</p> <p>Frequency Center Freq 2.437000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz</p>
<p>11N40SISO/HCH</p>	 <p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.452000000 GHz</p> <p>Center Freq: 2.452000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>10 dB/div</p> <p>Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 3 ms</p> <p><b>Occupied Bandwidth</b> 36.169 MHz <b>Total Power</b> 5.38 dBm</p> <p>Transmit Freq Error 16.454 kHz OBW Power 99.00 % x dB Bandwidth 35.12 MHz x dB -6.00 dB</p> <p>Frequency Center Freq 2.452000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz</p>

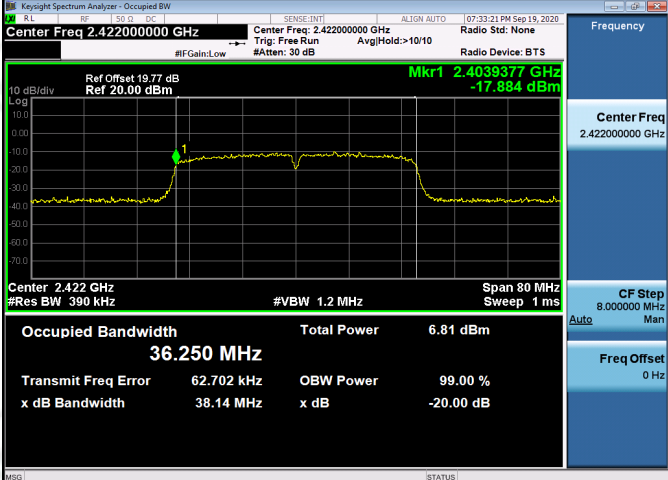
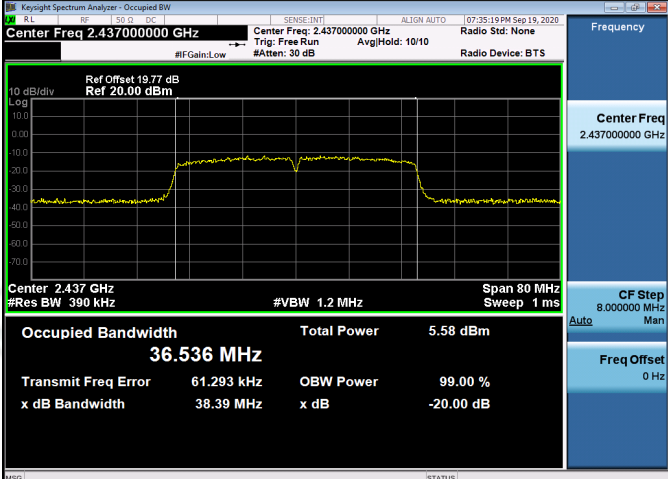
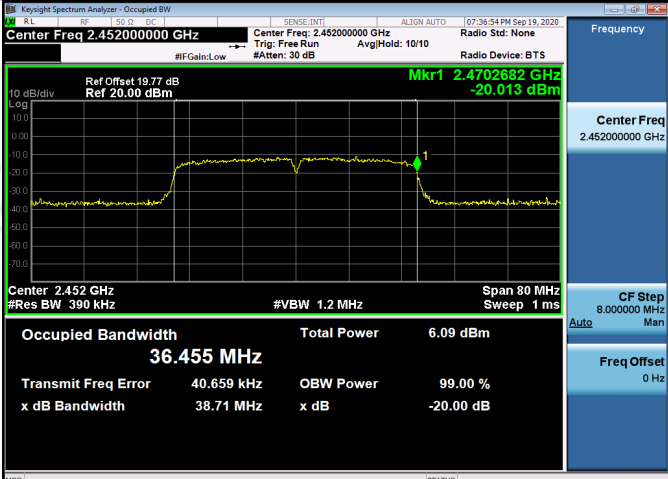
**Occupied Bandwidth(99%)**



<p>11G/LCH</p>	<p>Center Freq 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run AvgHold: 10/10</p> <p>Radio Device: BTS</p> <p>Ref Offset: 19.8 dB Ref 20.00 dBm</p> <p>Mkr1 2.4035587 GHz -17.057 dBm</p> <p>10 dB/div Log</p> <p>Center 2.412 GHz #Res BW 300 kHz</p> <p>#VBW 1 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.975 MHz</p> <p>Total Power 7.09 dBm</p> <p>Transmit Freq Error 46.236 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.42 MHz</p> <p>x dB -20.00 dB</p> <p>Frequency 2.412000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Freq Offset 0 Hz</p>
<p>11G/MCH</p>	<p>Center Freq 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run AvgHold: 10/10</p> <p>Radio Device: BTS</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.437 GHz #Res BW 300 kHz</p> <p>#VBW 1 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 17.041 MHz</p> <p>Total Power 7.95 dBm</p> <p>Transmit Freq Error 23.391 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.33 MHz</p> <p>x dB -20.00 dB</p> <p>Frequency 2.437000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Freq Offset 0 Hz</p>
<p>11G/HCH</p>	<p>Center Freq 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run AvgHold: 10/10</p> <p>Radio Device: BTS</p> <p>Ref Offset: 19.77 dB Ref 20.00 dBm</p> <p>Mkr1 2.4704817 GHz -17.516 dBm</p> <p>10 dB/div Log</p> <p>Center 2.462 GHz #Res BW 300 kHz</p> <p>#VBW 1 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.915 MHz</p> <p>Total Power 7.54 dBm</p> <p>Transmit Freq Error 24.175 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 19.11 MHz</p> <p>x dB -20.00 dB</p> <p>Frequency 2.462000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Freq Offset 0 Hz</p>



<p>11N20SISO/LCH</p>	 <p>Center Freq 2.412000000 GHz</p> <p>Center Freq 2.412000000 GHz</p> <p>Mkr1 2.4030842 GHz -17.774 dBm</p> <p>Center 2.412 GHz</p> <p>Occupied Bandwidth 17.960 MHz</p> <p>Total Power 7.03 dBm</p> <p>Transmit Freq Error 64.218 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.09 MHz</p> <p>x dB -20.00 dB</p>
<p>11N20SISO/MCH</p>	 <p>Center Freq 2.437000000 GHz</p> <p>Center Freq 2.437000000 GHz</p> <p>Center 2.437 GHz</p> <p>Occupied Bandwidth 18.106 MHz</p> <p>Total Power 6.83 dBm</p> <p>Transmit Freq Error 66.867 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.26 MHz</p> <p>x dB -20.00 dB</p>
<p>11N20SISO/HCH</p>	 <p>Center Freq 2.462000000 GHz</p> <p>Center Freq 2.462000000 GHz</p> <p>Mkr1 2.4710571 GHz -18.272 dBm</p> <p>Center 2.462 GHz</p> <p>Occupied Bandwidth 18.116 MHz</p> <p>Total Power 6.12 dBm</p> <p>Transmit Freq Error -889 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.49 MHz</p> <p>x dB -20.00 dB</p>

<p>11N40SISO/LCH</p>	 <p>Center Freq 2.422000000 GHz</p> <p>Center Freq: 2.422000000 GHz</p> <p>Mkr1 2.4039377 GHz -17.884 dBm</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.422 GHz #Res BW 390 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>36.250 MHz</b></p> <p>Total Power 6.81 dBm</p> <p>Transmit Freq Error 62.702 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 38.14 MHz</p> <p>x dB -20.00 dB</p>
<p>11N40SISO/MCH</p>	 <p>Center Freq 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 390 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>36.536 MHz</b></p> <p>Total Power 5.58 dBm</p> <p>Transmit Freq Error 61.293 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 38.39 MHz</p> <p>x dB -20.00 dB</p>
<p>11N40SISO/HCH</p>	 <p>Center Freq 2.452000000 GHz</p> <p>Center Freq: 2.452000000 GHz</p> <p>Mkr1 2.4702682 GHz -20.013 dBm</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.452 GHz #Res BW 390 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Occupied Bandwidth <b>36.455 MHz</b></p> <p>Total Power 6.09 dBm</p> <p>Transmit Freq Error 40.659 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 38.71 MHz</p> <p>x dB -20.00 dB</p>

## Appendix C): Band-edge for RF Conducted Emissions

### Test Limit

According to §15.247(d),

In any 100 kHz bandwidth outside the authorized frequency band,

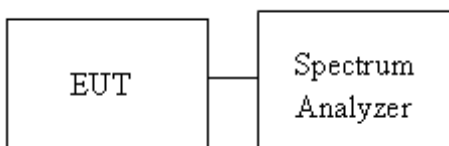
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

### Test Procedure

Test method Refer as KDB 558074 D01.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted 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.

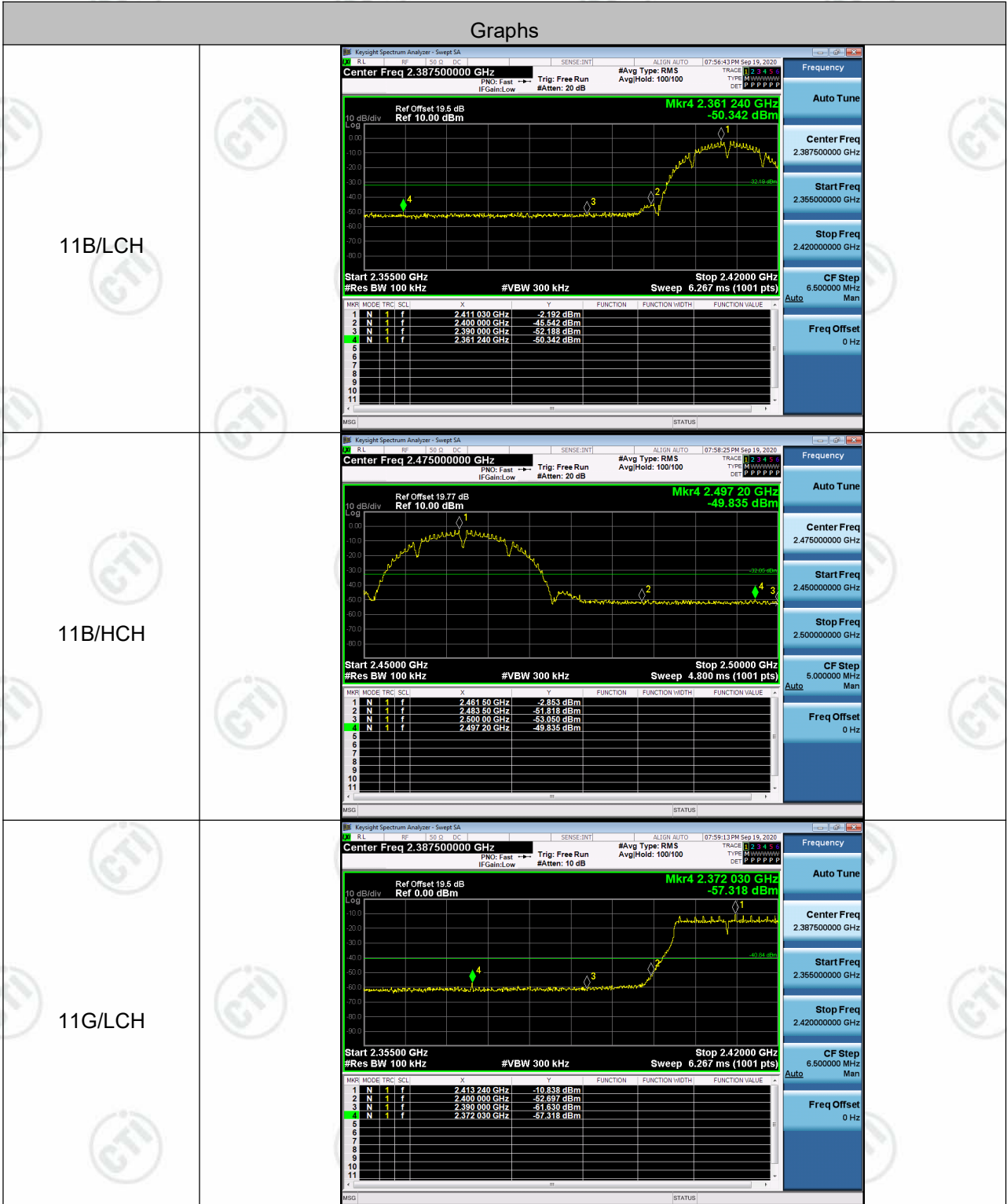
### Test Setup



**Result Table**

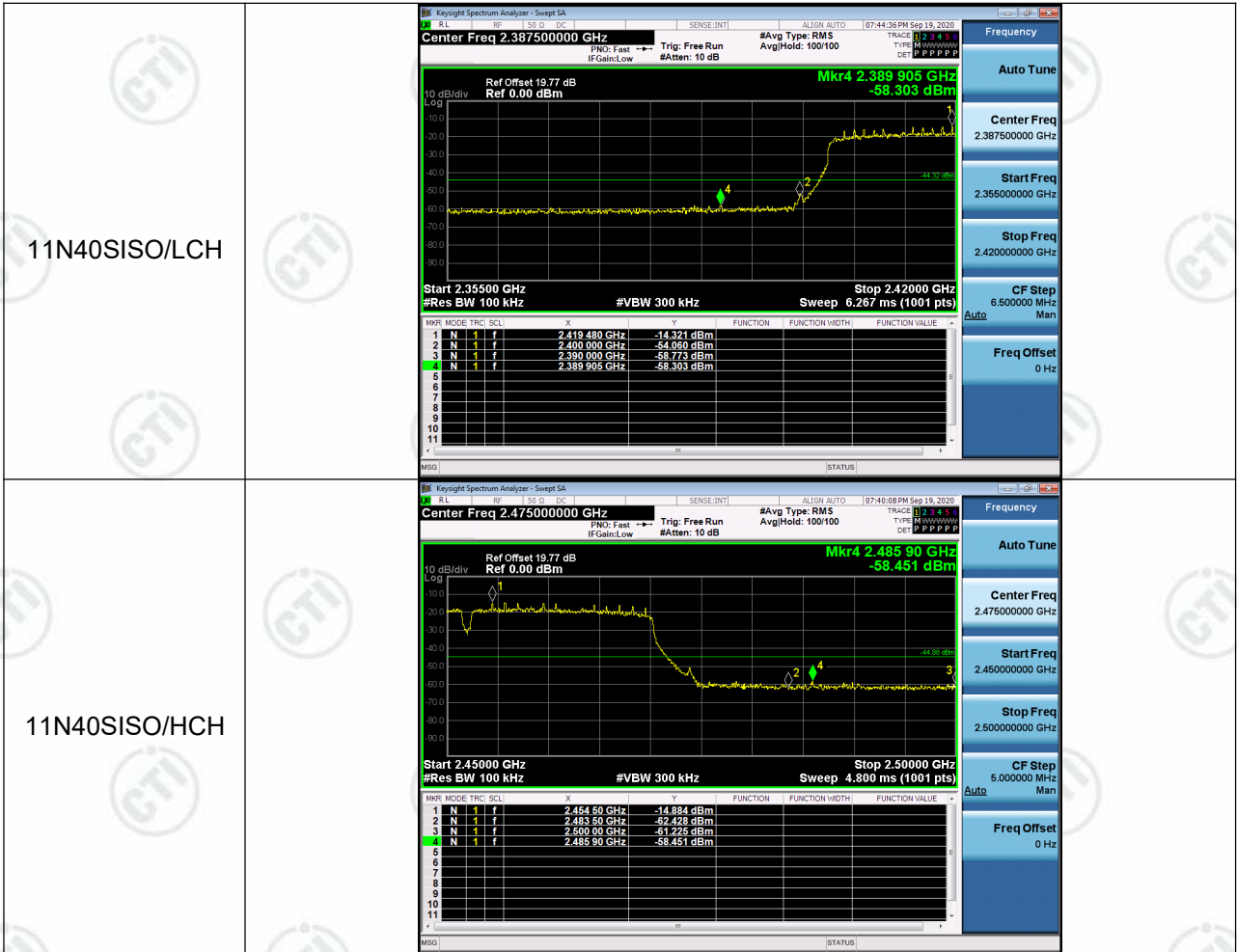
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.192	-50.342	-32.19	PASS
11B	HCH	-2.853	-49.835	-32.85	PASS
11G	LCH	-10.838	-57.318	-40.84	PASS
11G	HCH	-12.443	-59.583	-42.44	PASS
11N20SISO	LCH	-11.380	-57.975	-41.38	PASS
11N20SISO	HCH	-12.063	-58.935	-42.06	PASS
11N40SISO	LCH	-14.321	-58.303	-44.32	PASS
11N40SISO	HCH	-14.884	-58.451	-44.88	PASS

**Test Graph**





<p>11G/HCH</p>	<p>Keylight Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.47500000 GHz</p> <p>Ref Offset 19.77 dB Ref 0.00 dBm</p> <p>Mkr4 2.49120 GHz -59.583 dBm</p> <p>Start 2.45000 GHz #Res BW 100 kHz</p> <p>Stop 2.50000 GHz #VBW 300 kHz Sweep 4.800 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.46700 GHz</td> <td>-12.443 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.48350 GHz</td> <td>-81.873 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.50000 GHz</td> <td>-82.107 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.49120 GHz</td> <td>-59.583 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.46700 GHz	-12.443 dBm				2	N	1	f	2.48350 GHz	-81.873 dBm				3	N	1	f	2.50000 GHz	-82.107 dBm				4	N	1	f	2.49120 GHz	-59.583 dBm			
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																						
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<p>11N20SISO/LCH</p>	<p>Keylight Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.38750000 GHz</p> <p>Ref Offset 19.5 dB Ref 0.00 dBm</p> <p>Mkr4 2.371965 GHz -57.975 dBm</p> <p>Start 2.35500 GHz #Res BW 100 kHz</p> <p>Stop 2.42000 GHz #VBW 300 kHz Sweep 6.267 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.414475 GHz</td> <td>-11.380 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.40000 GHz</td> <td>-52.417 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.390000 GHz</td> <td>-81.191 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.371965 GHz</td> <td>-57.975 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.414475 GHz	-11.380 dBm				2	N	1	f	2.40000 GHz	-52.417 dBm				3	N	1	f	2.390000 GHz	-81.191 dBm				4	N	1	f	2.371965 GHz	-57.975 dBm			
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<p>11N20SISO/HCH</p>	<p>Keylight Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.47500000 GHz</p> <p>Ref Offset 19.77 dB Ref 0.00 dBm</p> <p>Mkr4 2.48595 GHz -58.935 dBm</p> <p>Start 2.45000 GHz #Res BW 100 kHz</p> <p>Stop 2.50000 GHz #VBW 300 kHz Sweep 4.800 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.48325 GHz</td> <td>-12.863 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.48350 GHz</td> <td>-81.701 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.50000 GHz</td> <td>-81.870 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.48595 GHz</td> <td>-58.935 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.48325 GHz	-12.863 dBm				2	N	1	f	2.48350 GHz	-81.701 dBm				3	N	1	f	2.50000 GHz	-81.870 dBm				4	N	1	f	2.48595 GHz	-58.935 dBm			
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## Appendix D): RF Conducted Spurious Emissions

### Test Limit

According to §15.247(d),

In any 100 kHz bandwidth outside the authorized frequency band,

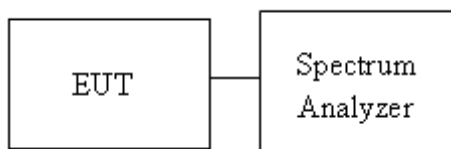
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

### Test Procedure

Test method Refer as KDB 558074 D01.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted 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.

### Test Setup



**Result Table**

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	-2.184	<Limit	PASS
11B	MCH	-3.214	<Limit	PASS
11B	HCH	-3.133	<Limit	PASS
11G	LCH	-11.404	<Limit	PASS
11G	MCH	-11.514	<Limit	PASS
11G	HCH	-11.777	<Limit	PASS
11N20SISO	LCH	-11.297	<Limit	PASS
11N20SISO	MCH	-10.869	<Limit	PASS
11N20SISO	HCH	-11.648	<Limit	PASS
11N40SISO	LCH	-13.911	<Limit	PASS
11N40SISO	MCH	-15.331	<Limit	PASS
11N40SISO	HCH	-14.834	<Limit	PASS

**Test Graph**

