

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.....: MTEB23080162-R

FCC ID.....: 2AZWZ-T6PRO

Compiled by

(position+printed name+signature) .: File administrators Alisa Luo



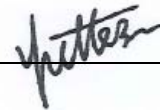
Supervised by

(position+printed name+signature) .: Test Engineer Sunny Deng



Approved by

(position+printed name+signature) .: Manager Yvette Zhou



Date of issue: **Aug. 14,2023**

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Address: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name.....: KAWA ELECTRONICS COMPANY LIMITED

Address: FLAT A 21/F CHEUNG LEE IND BLDG 9 CHEUNG LEE ST CHAI WA
N HONG KONG , China

Test specification

Standard.....: **FCC Part 15.247**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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Test item description: Security Camera

Trade Mark.....: KAWA Apical

Model/Type reference: T6 Pro

Listed Models: T6、 T7、 T7 Pro、 2337C、 2337B、 T601、 T701

Modulation Type.....: CCK/DSSS/ OFDM

Operation Frequency.....: From 2412MHz~2462MHz

Rating: DC 12V (by Adapter)
POE power supply(48V 0.35A)

Hardware version: 2337C-MAIN-01A

Software version: Ver 2337C.1.0

Result: **PASS**

TEST REPORT

Equipment under Test : Security Camera

Model /Type : T6 Pro

Listed Models : T6、 T7、 T7 Pro、 2337C、 2337B、 T601、 T701

Remark : Inside the lens size difference, the other is the same.

Applicant : **KAWA ELECTRONICS COMPANY LIMITED**

Address : FLAT A 21/F CHEUNG LEE IND BLDG 9 CHEUNG LEE ST
CHAI WAN HONG KONG , China

Manufacturer : **KAWA ELECTRONICS COMPANY LIMITED**

Address : FLAT A 21/F CHEUNG LEE IND BLDG 9 CHEUNG LEE
ST CHAI WAN HONG KONG , China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 Revision History

Revision	Issue Date	Revisions	Revised By
00	2023-08-14	Initial Issue	Alisa Luo

2 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 v05r02](#): Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

3 SUMMARY

3.1 General Remarks

Date of receipt of test sample	:	2023.08.08
Testing commenced on	:	2023.08.09
Testing concluded on	:	2023.08.14

3.2 Product Description

Product Name:	Security Camera
Model/Type reference:	T6 Pro
Power Supply:	DC 12V (by Adapter) POE power supply(48V 0.35A)
Testing sample ID:	MTYP02484
WIFI :	
Supported type:	802.11b/802.11g/802.11n(H20)
Modulation:	802.11b: DSSS 802.11g/802.11n(H20): OFDM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11 802.11b/802.11g: 7
Channel separation:	5MHz
Antenna type:	FPC antenna
Antenna gain:	3.52dBi

3.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 120V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

DC 12V (by Adapter)
POE power supply(48V 0.35A)

3.4 Short description of the Equipment under Test (EUT)

This is a Security Camera.
For more details, refer to the user's manual of the EUT.

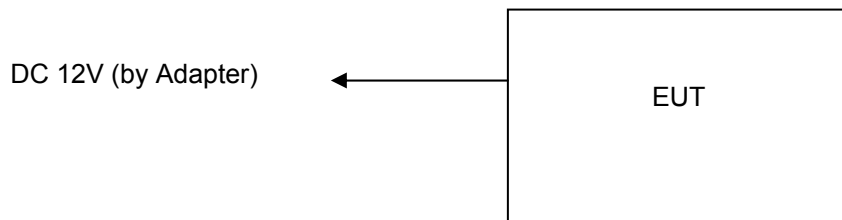
3.5 EUT operation mode

The application provider specific test software(AT command) to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n: Thirteen channels are provided to the EUT.

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

3.6 Block Diagram of Test Setup



3.7 Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	Adapter	TEKA012-1201000CH	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8 Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	/	/	/	/
AE 2	/	/	/	/

3.9 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	---	FPC antenna	2.4 – 2.5 GHz	---	3.52dBi
Antenna 2					

*: declared by the applicant.

3.10 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: A4C-10011B** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3.11 Modifications

No modifications were implemented to meet testing criteria.

3.12 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - Supplied by the lab

●	ADAPTER	M/N:	TEKA012-1201000CH
		Manufacturer:	TEKA Technology Co., Ltd.

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

4.2 Test Facility

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.3 Environmental conditions

Radiated Emission:

Temperature:	24 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

4.4 Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	N/A
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Conducted Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	6.5Mbps	3/6/9
	11b/DSSS	1 Mbps	1/11
Band Edge	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	6.5Mbps	3/9
	11n(40MHz)/OFDM	6.5Mbps	3/9

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.6 Equipments Used during the Test

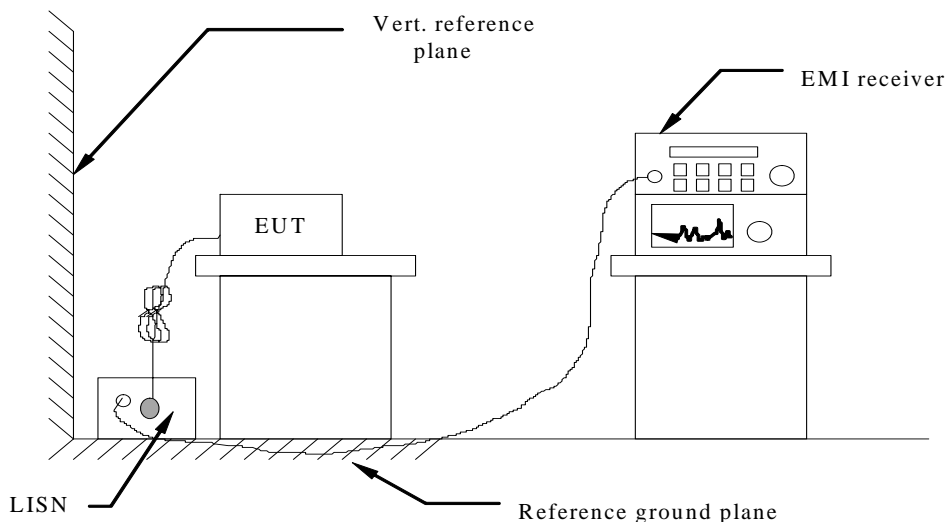
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	100093	/	2023/03/17	1 Year
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2023/03/17	1 Year
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2023/03/17	1 Year
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2023/03/17	1 Year
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2023/03/17	1 Year
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2023/03/17	1 Year
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2023/03/17	1 Year
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2023/03/17	1 Year
9	Horn antenna	R&S	OBH100400	26999002	/	2023/03/17	1 Year
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE-3.7.21	2023/03/17	1 Year
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2023/03/17	1 Year
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2023/03/17	1 Year
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2023/03/17	1 Year
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2023/03/17	1 Year
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2023/03/17	1 Year
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2023/03/17	1 Year
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2023/03/17	1 Year
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2023/03/17	1 Year
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2023/03/17	1 Year

Note: The Cal.Interval was one year.

5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

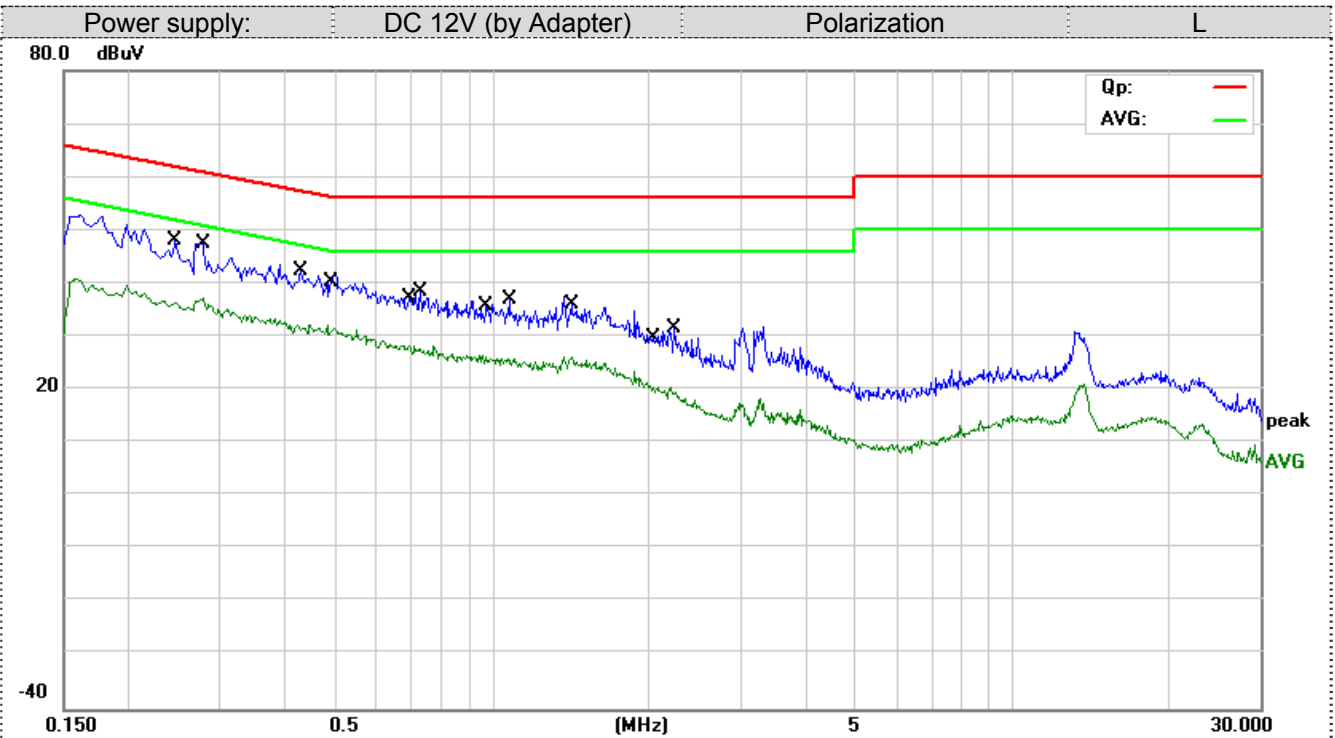
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

Remark:

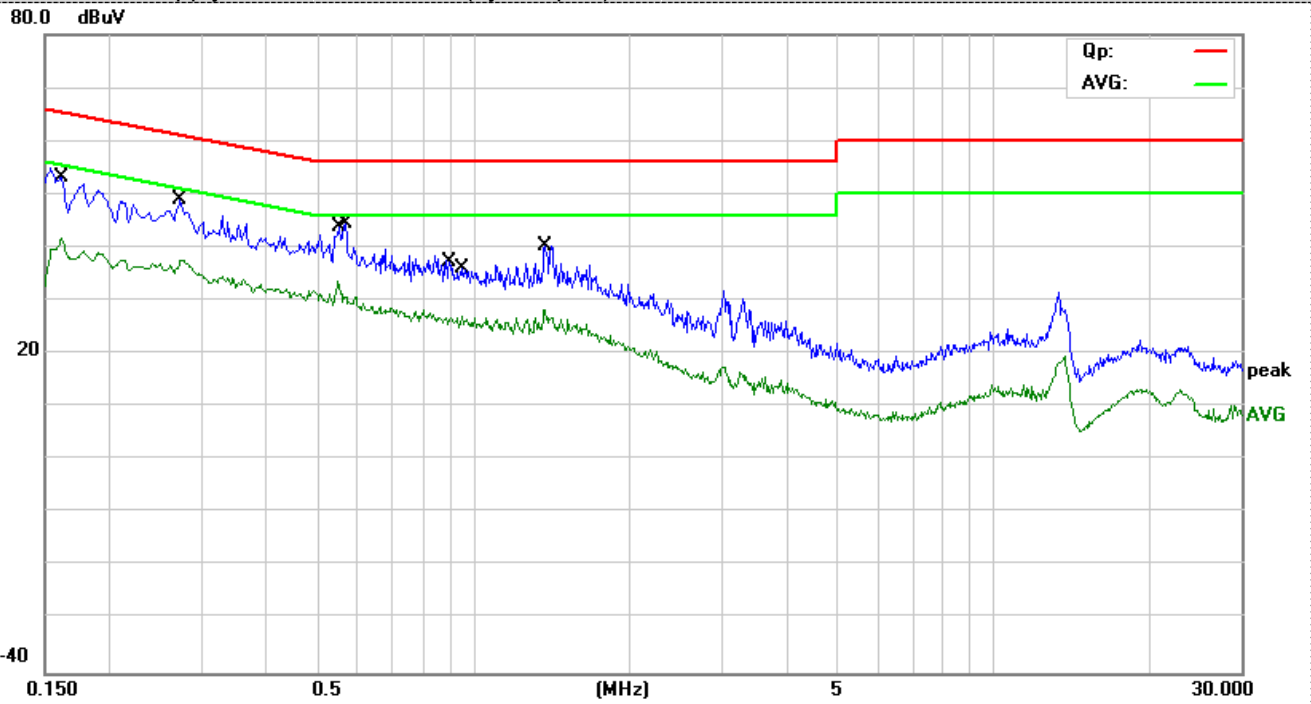
1.WIFI modes were test at 802.11b/802.11g/802.11n (H20) (Low, Middle, and High channel); only the worst result of 802.11b Middle Channel was reported as below:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2460	38.39	9.60	47.99	61.89	-13.90	QP	
2	*	0.2780	27.75	9.59	37.34	50.88	-13.54	AVG	
3		0.4300	32.77	9.59	42.36	57.25	-14.89	QP	
4		0.4820	22.57	9.59	32.16	46.30	-14.14	AVG	
5		0.6940	18.73	9.60	28.33	46.00	-17.67	AVG	
6		0.7300	28.95	9.60	38.55	56.00	-17.45	QP	
7		0.9620	16.99	9.60	26.59	46.00	-19.41	AVG	
8		1.0820	27.35	9.60	36.95	56.00	-19.05	QP	
9		1.4220	26.40	9.60	36.00	56.00	-20.00	QP	
10		1.4300	16.60	9.60	26.20	46.00	-19.80	AVG	
11		2.0140	11.16	9.60	20.76	46.00	-25.24	AVG	
12		2.2460	21.93	9.60	31.53	56.00	-24.47	QP	

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

Power supply: DC 12V (by Adapter) Polarization N



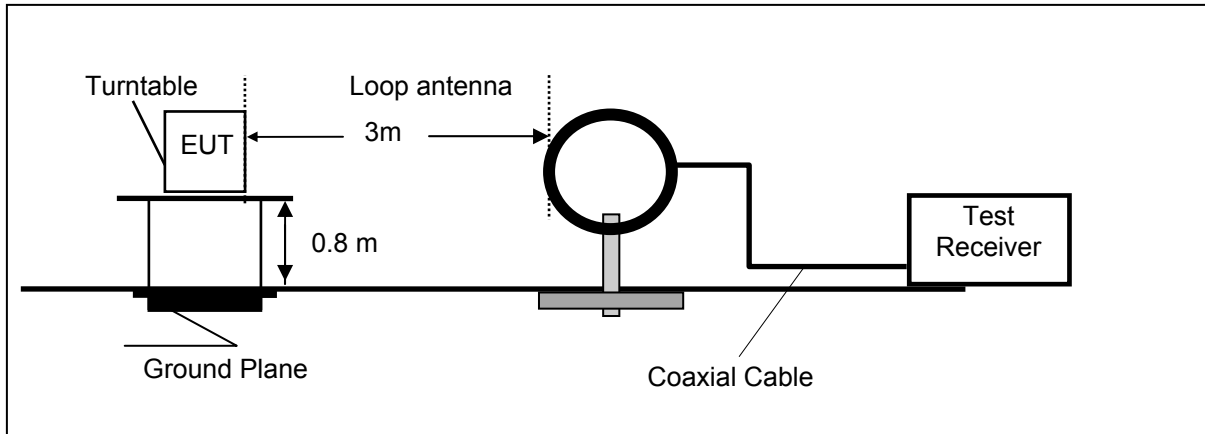
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	43.60	9.61	53.21	65.36	-12.15	QP	
2		0.1620	32.03	9.61	41.64	55.36	-13.72	AVG	
3		0.2740	39.31	9.60	48.91	61.00	-12.09	QP	
4		0.2740	27.94	9.60	37.54	51.00	-13.46	AVG	
5		0.5500	23.93	9.59	33.52	46.00	-12.48	AVG	
6	*	0.5700	34.79	9.59	44.38	56.00	-11.62	QP	
7		0.9020	27.80	9.60	37.40	56.00	-18.60	QP	
8		0.9540	17.41	9.60	27.01	46.00	-18.99	AVG	
9		1.3700	18.75	9.60	28.35	46.00	-17.65	AVG	
10		1.3740	30.76	9.60	40.36	56.00	-15.64	QP	

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

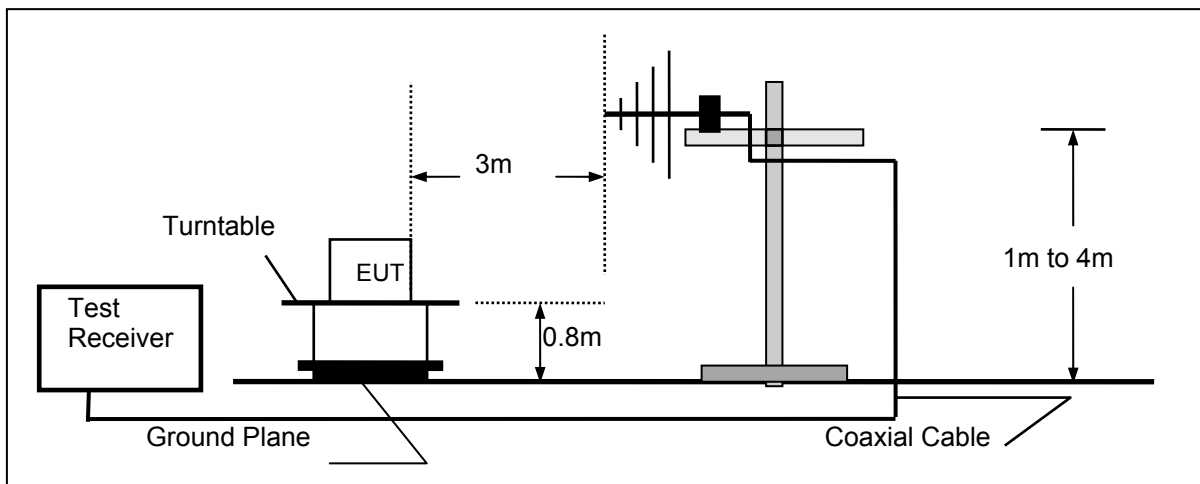
5.2 Radiated Emission

TEST CONFIGURATION

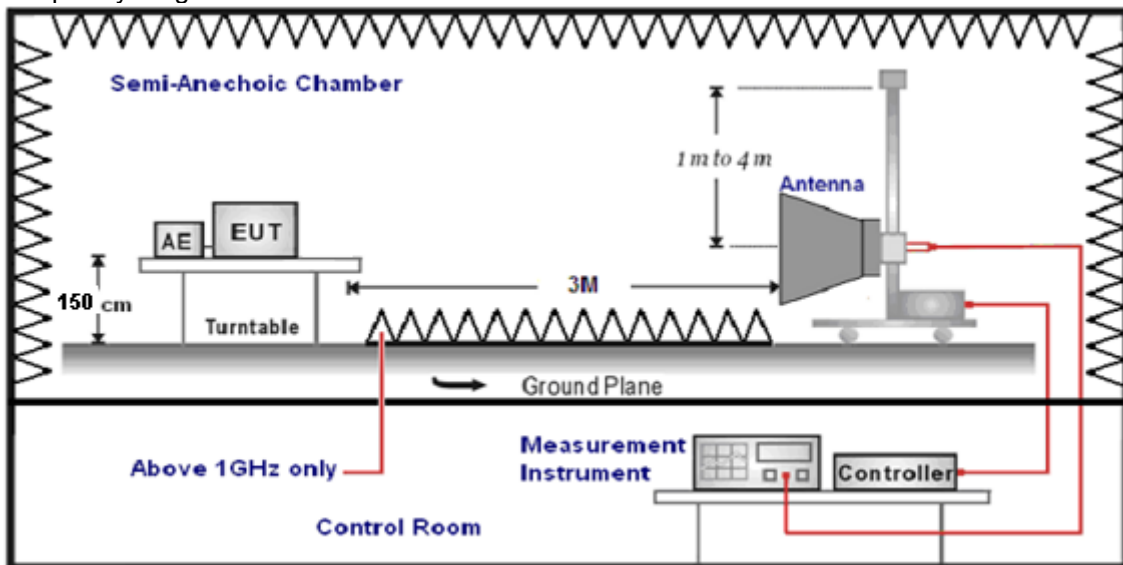
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$Transd=AF +CL-AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

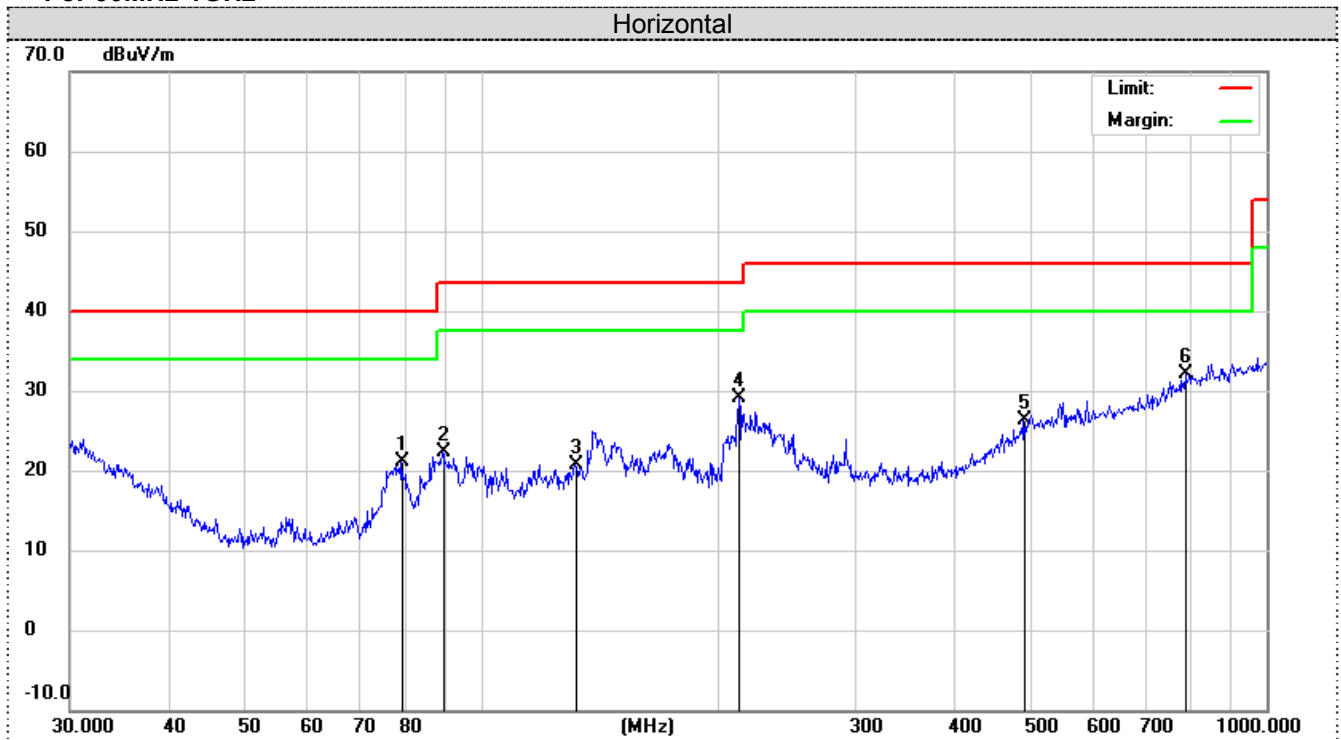
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark:

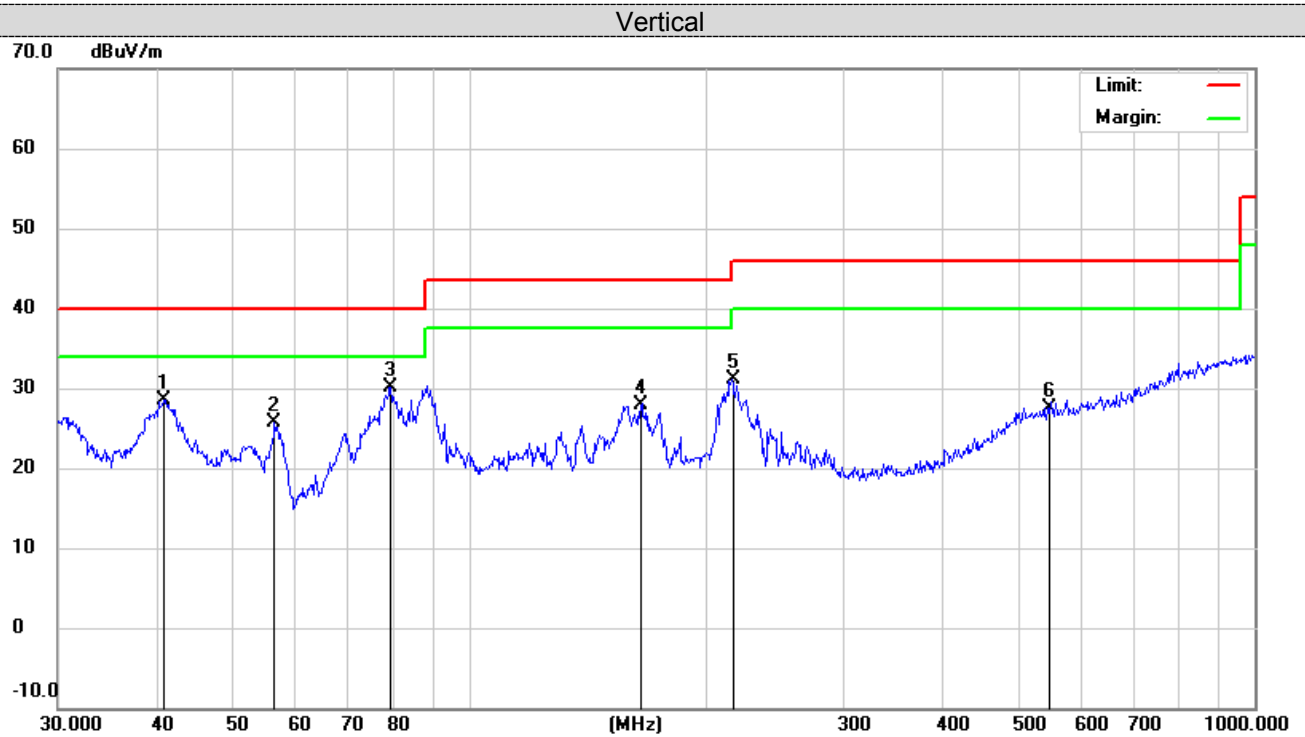
1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
4. Remark: Result=Reading value+Factor

For 30MHz-1GHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		79.2426	11.02	10.04	21.06	40.00	-18.94	QP	200	21
2		89.2764	12.47	9.91	22.38	43.50	-21.12	QP	200	59
3		131.7577	4.62	16.18	20.80	43.50	-22.70	QP	200	130
4		213.0151	14.25	14.84	29.09	43.50	-14.41	QP	200	187
5		490.7447	4.03	22.21	26.24	46.00	-19.76	QP	200	239
6	*	787.8513	4.53	27.56	32.09	46.00	-13.91	QP	200	305

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		40.8446	15.27	13.24	28.51	40.00	-11.49	QP	100	24
2		56.5929	17.19	8.43	25.62	40.00	-14.38	QP	100	135
3	*	79.2426	20.10	10.04	30.14	40.00	-9.86	QP	100	186
4		165.4866	10.85	17.12	27.97	43.50	-15.53	QP	100	241
5		216.0240	16.39	14.75	31.14	46.00	-14.86	QP	100	286
6		545.1826	4.36	23.20	27.56	46.00	-18.44	QP	100	321

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

For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n (H20) all have been tested, only worse case 802.11b mode is reported

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11b-2412MHz									
V	4824	56.98	30.28	7.01	36.5	57.77	74	16.23	PK
V	4824	42.22	30.28	7.01	36.5	43.01	54	10.99	AV
H	4824	57.07	30.28	7.01	36.5	57.86	74	16.14	PK
H	4824	43.26	30.28	7.01	36.5	44.05	54	9.95	AV
V	7236	40.43	36.59	8.91	35.3	50.63	74	23.37	PK
V	7236	29.81	36.59	8.91	35.3	40.01	54	13.99	AV
H	7236	43.74	36.59	8.91	35.3	53.94	74	20.06	PK
H	7236	32	36.59	8.91	35.3	42.2	54	11.8	AV
802.11b -2437MHz									
V	4874	55.14	30.36	7.62	36.5	56.62	74	17.38	PK
V	4874	43.04	30.36	7.62	36.5	44.52	54	9.48	AV
H	4874	55.13	30.36	7.62	36.5	56.61	74	17.39	PK
H	4874	42.18	30.36	7.62	36.5	43.66	54	10.34	AV
V	7311	43.92	36.61	8.84	35.3	54.07	74	19.93	PK
V	7311	31.47	36.61	8.84	35.3	41.62	54	12.38	AV
H	7311	40.62	36.61	8.84	35.3	50.77	74	23.23	PK
H	7311	30.51	36.61	8.84	35.3	40.66	54	13.34	AV
802.11b -2462MHz									
V	4924	55.39	30.43	7.94	36.2	57.56	74	16.44	PK
V	4924	42.18	30.43	7.94	36.2	44.35	54	9.65	AV
H	4924	55.71	30.43	7.94	36.2	57.88	74	16.12	PK
H	4924	43.68	30.43	7.94	36.2	45.85	54	8.15	AV
V	7386	40.8	36.78	8.45	35.3	50.73	74	23.27	PK
V	7386	30.93	36.78	8.45	35.3	40.86	54	13.14	AV
H	7386	39.5	36.78	8.45	35.3	49.43	74	24.57	PK
H	7386	29.56	36.78	8.45	35.3	39.49	54	14.51	AV

Note:

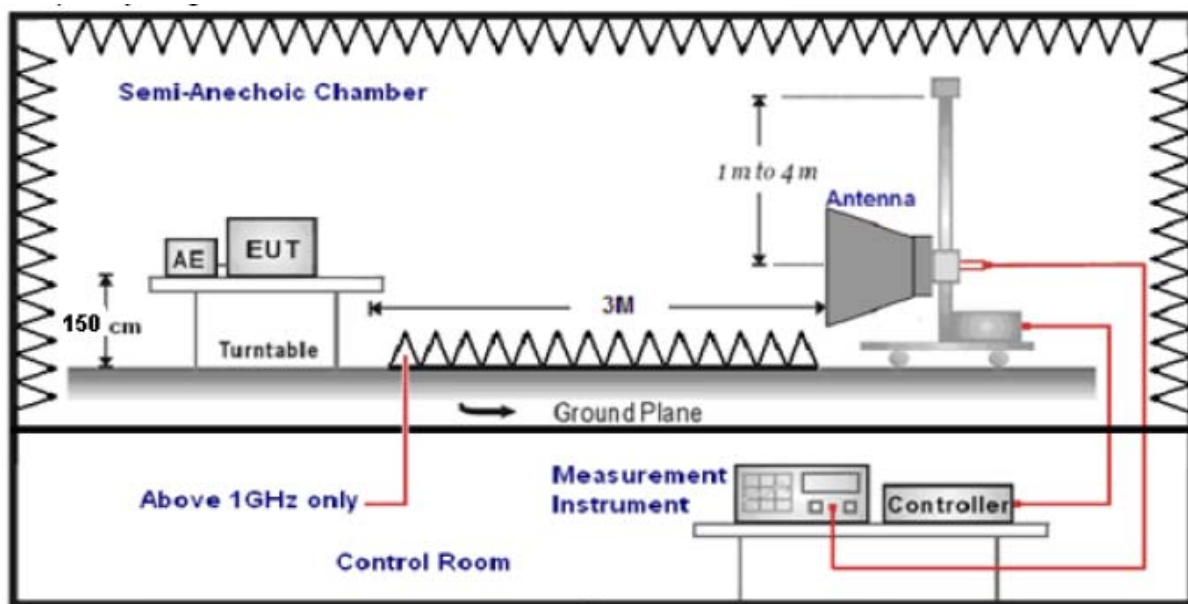
- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

5.3 Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions 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) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed..
5. The distance between test antenna and EUT was 3 meter:
6. Setting test receiver/spectrum as following table states:

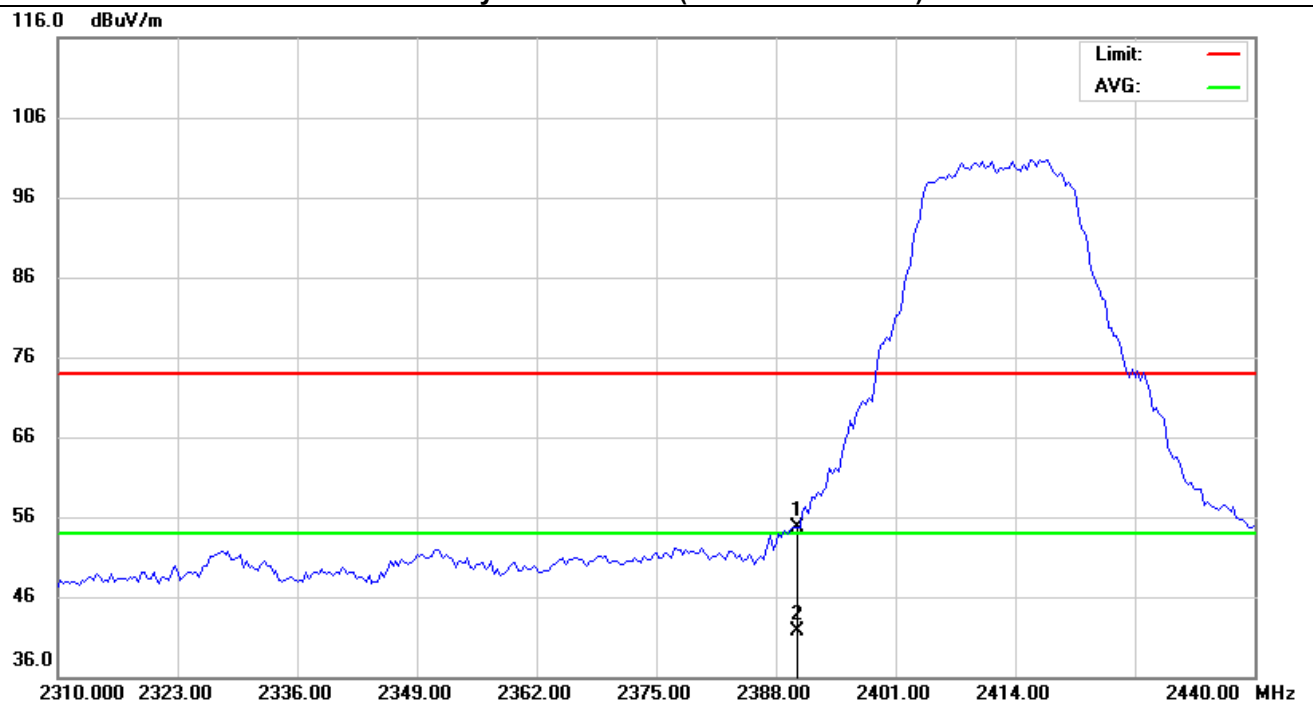
Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

LIMIT

Below -20dB of the highest emission level in operating band.
Radiated emissions 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)

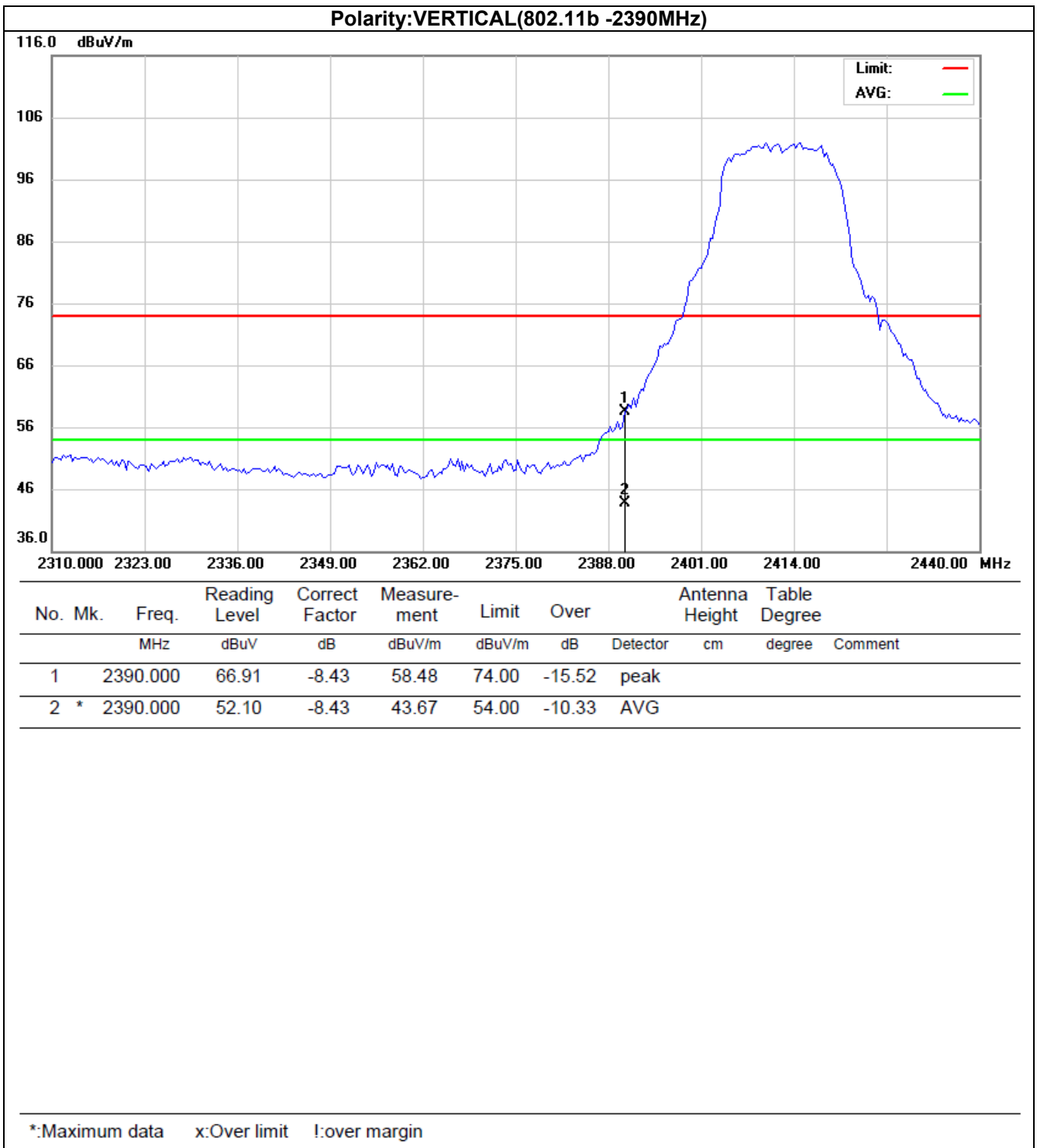
Results of Band Edges Test (Radiated)

Polarity:HORIZONTAL(802.11b -2390MHz)

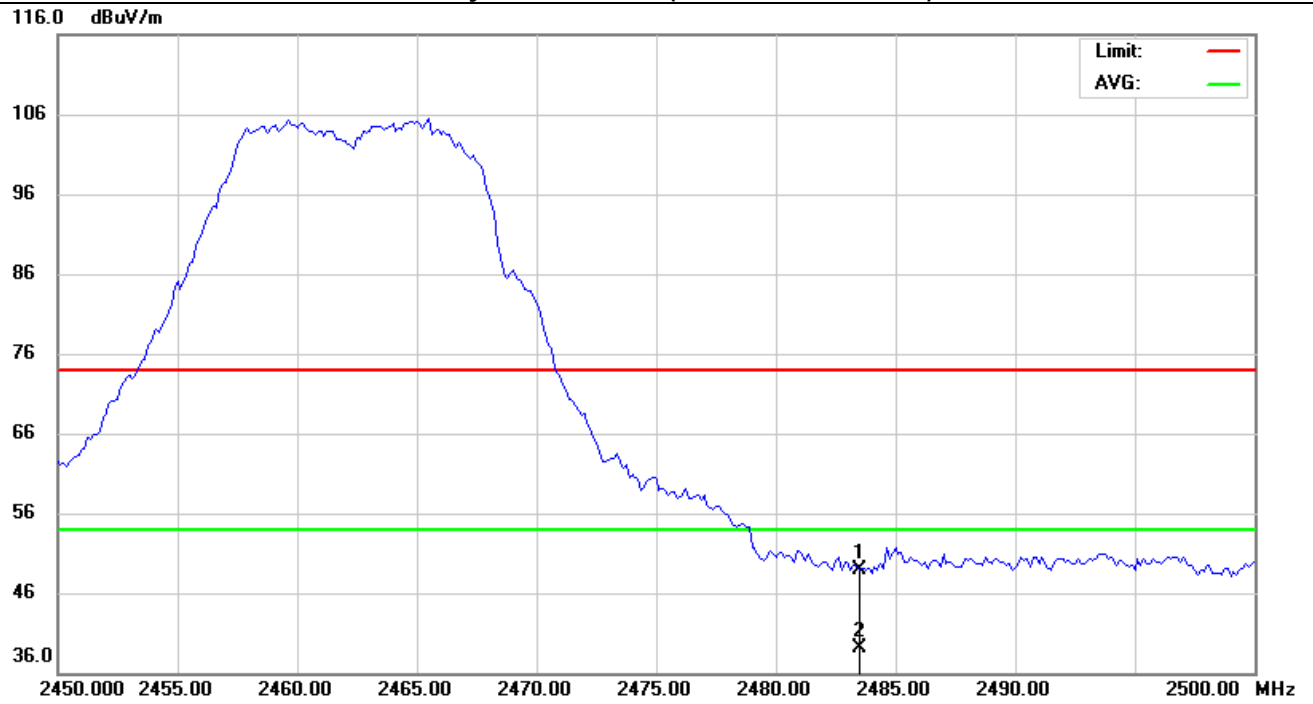


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2390.000	63.12	-8.43	54.69	74.00	-19.31	peak			
2	*	2390.000	50.15	-8.43	41.72	54.00	-12.28	AVG			

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



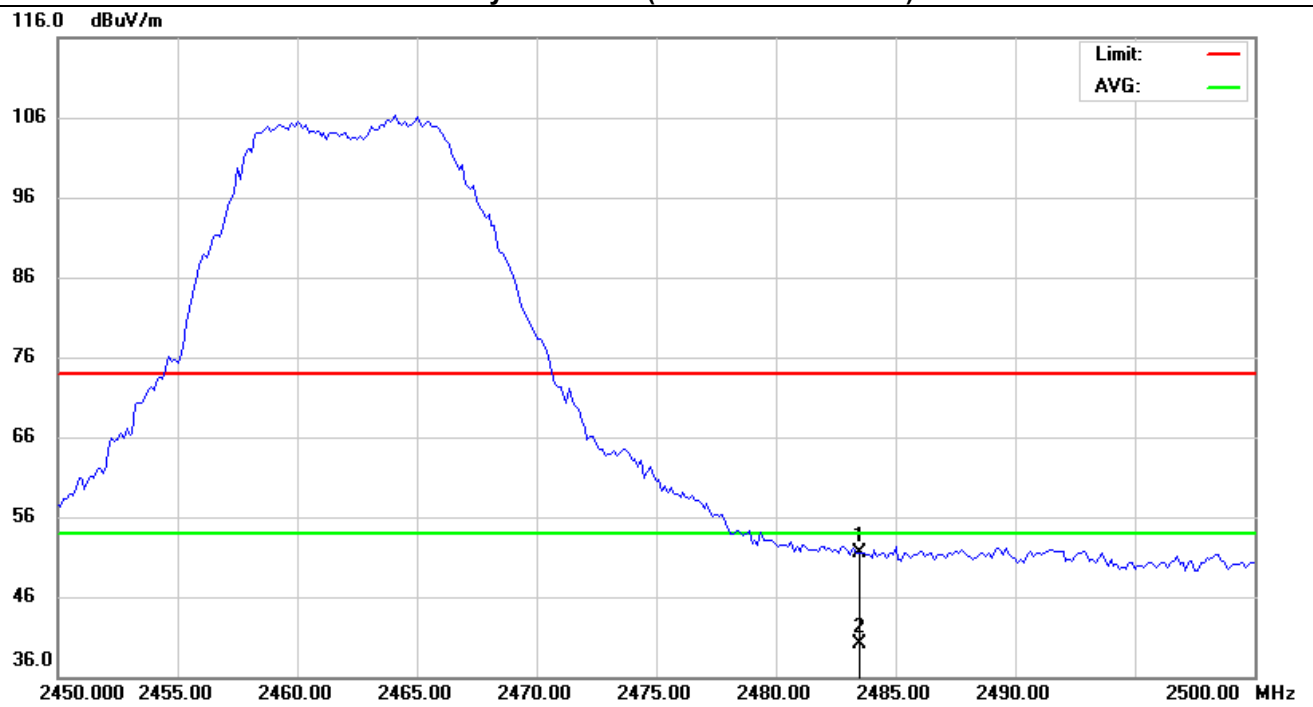
Polarity:HORIZONTAL(802.11b -2483.5MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2483.500	57.27	-8.29	48.98	74.00	-25.02	peak			
2	*	2483.500	47.36	-8.29	39.07	54.00	-14.93	AVG			

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

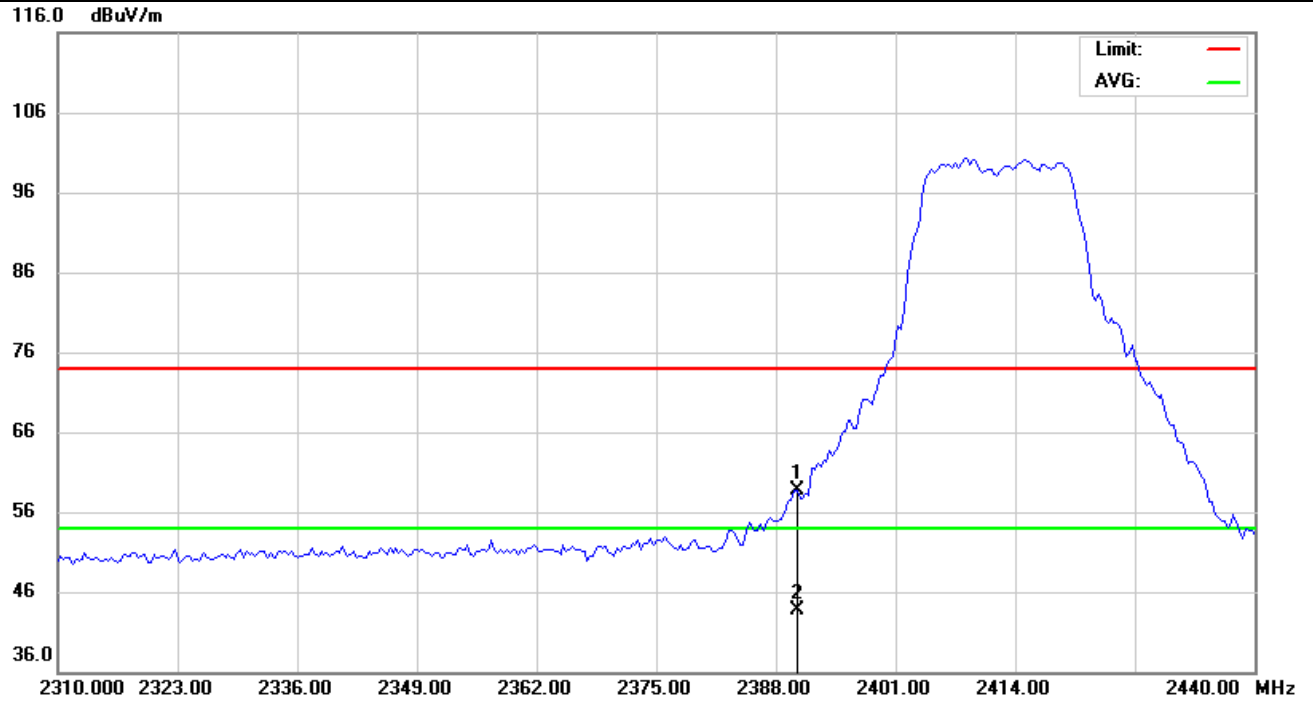
Polarity:VERTICAL(802.11b -2483.5MHz)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		2483.500	59.77	-8.29	51.48	74.00	-22.52			peak
2	*	2483.500	48.47	-8.29	40.18	54.00	-13.82			AVG

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

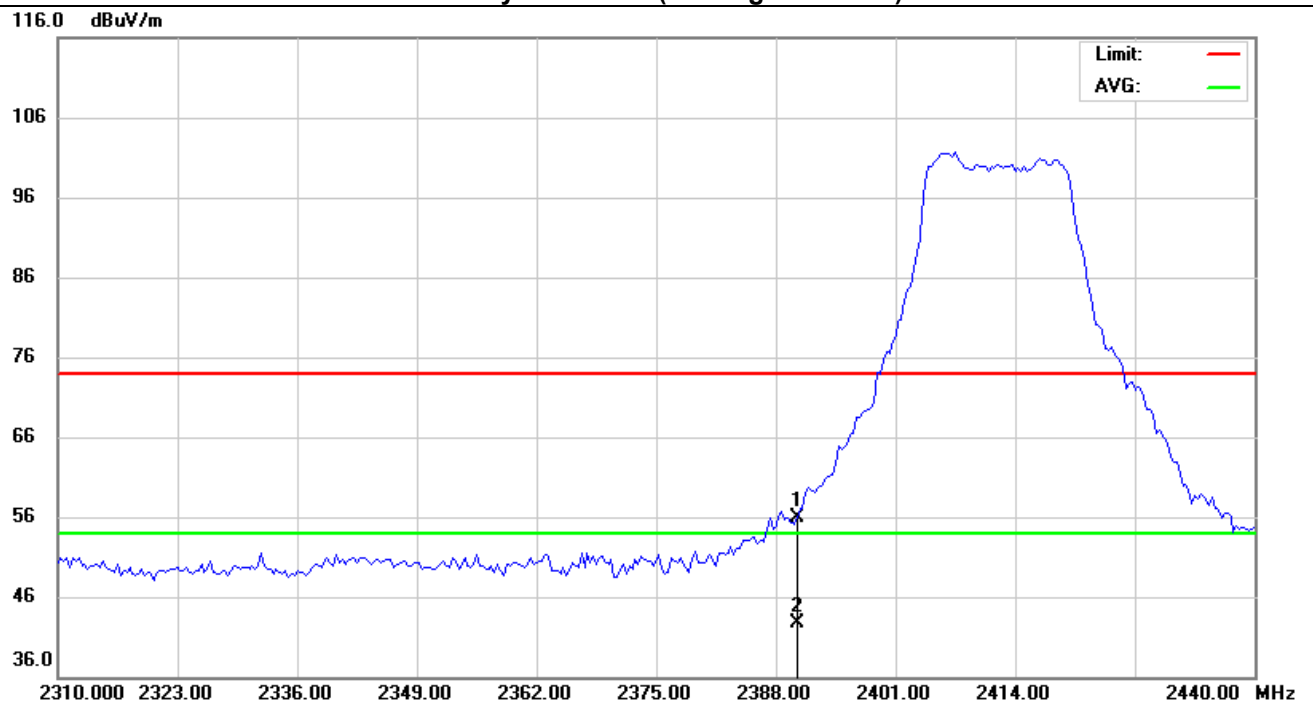
Polarity:HORIZONTAL(802.11g -2390MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2390.000	67.12	-8.43	58.69	74.00	-15.31	peak			
2	*	2390.000	52.10	-8.43	43.67	54.00	-10.33	AVG			

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

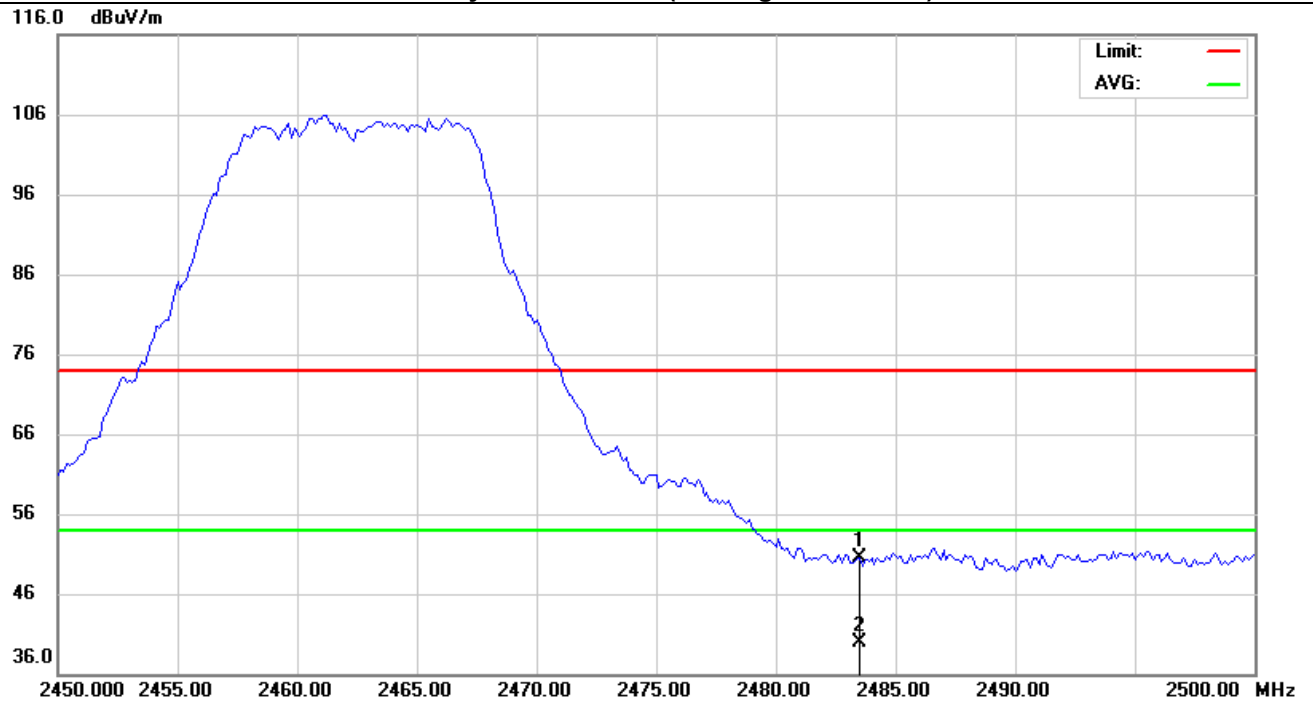
Polarity:VERTICAL(802.11g -2390MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	64.41	-8.43	55.98	74.00	-18.02			peak
2	*	2390.000	51.23	-8.43	42.80	54.00	-11.20			AVG

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

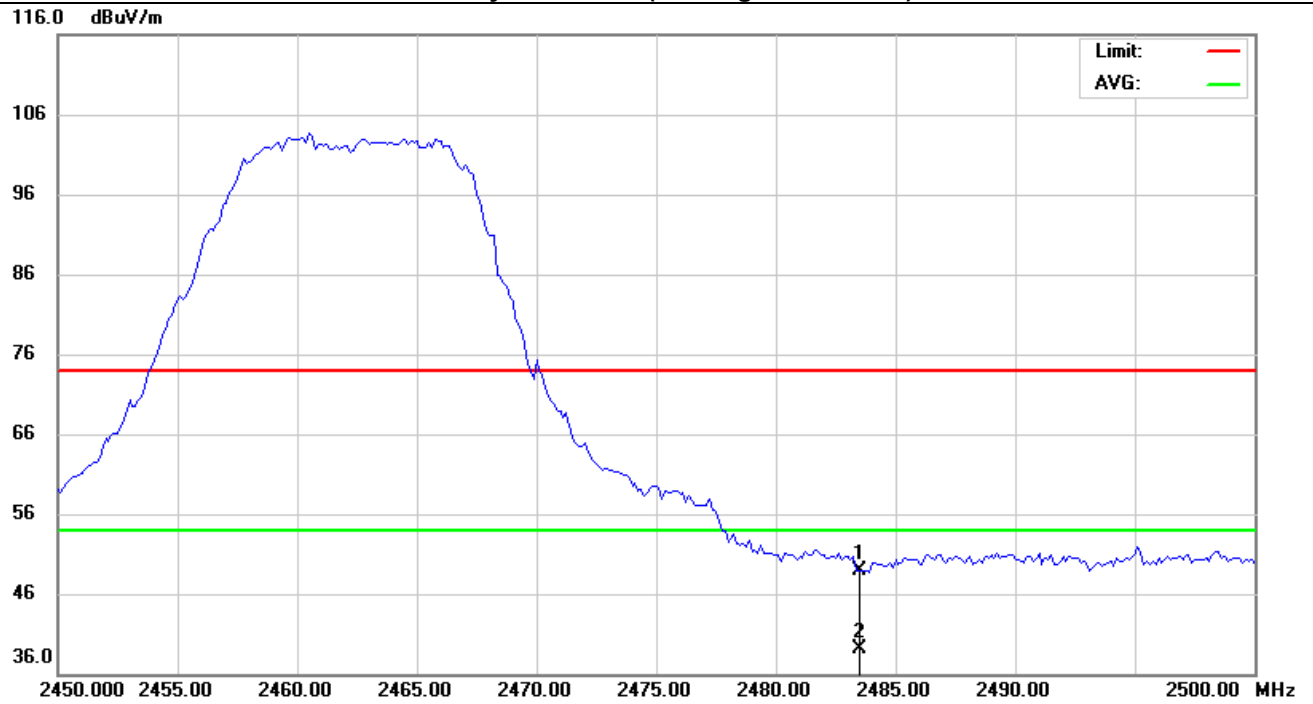
Polarity:HORIZONTAL(802.11g -2483.5MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2483.500	58.77	-8.29	50.48	74.00	-23.52	peak			
2	*	2483.500	48.13	-8.29	39.84	54.00	-14.16	AVG			

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

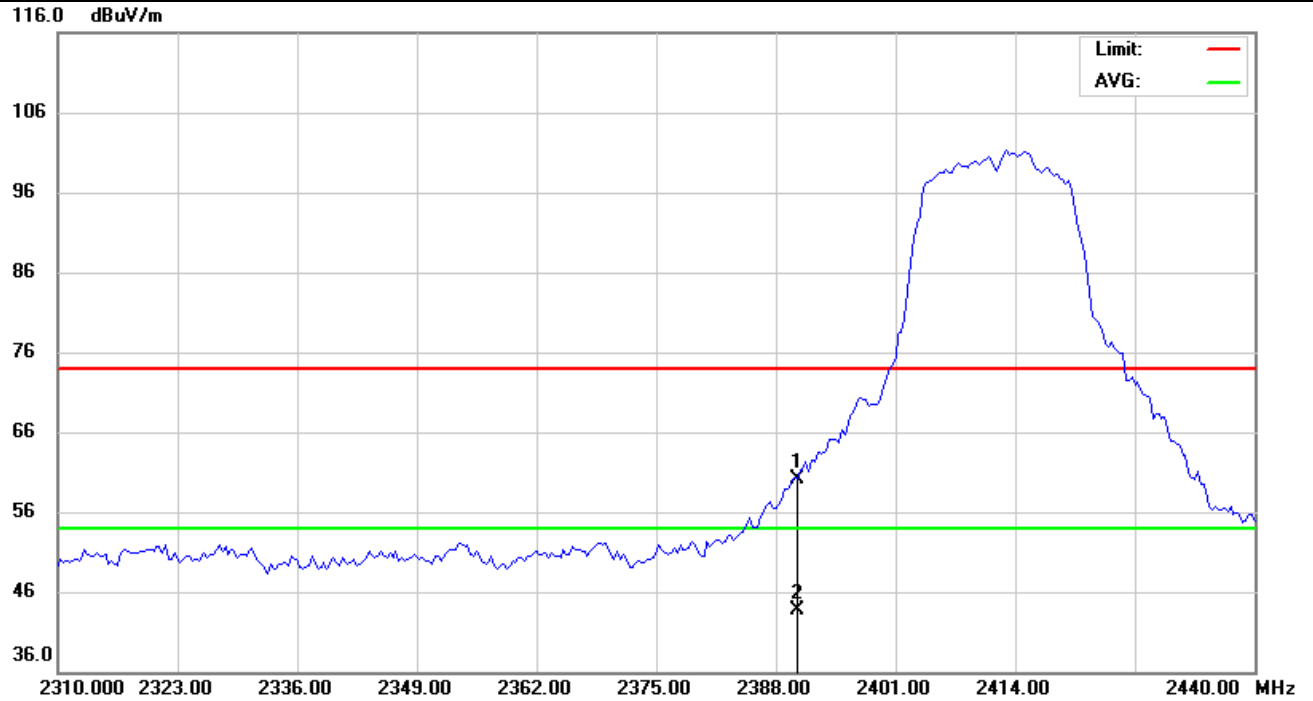
Polarity:VERTICAL(802.11g -2483.5MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2483.500	57.27	-8.29	48.98	74.00	-25.02	peak			
2	*	2483.500	47.35	-8.29	39.06	54.00	-14.94	AVG			

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

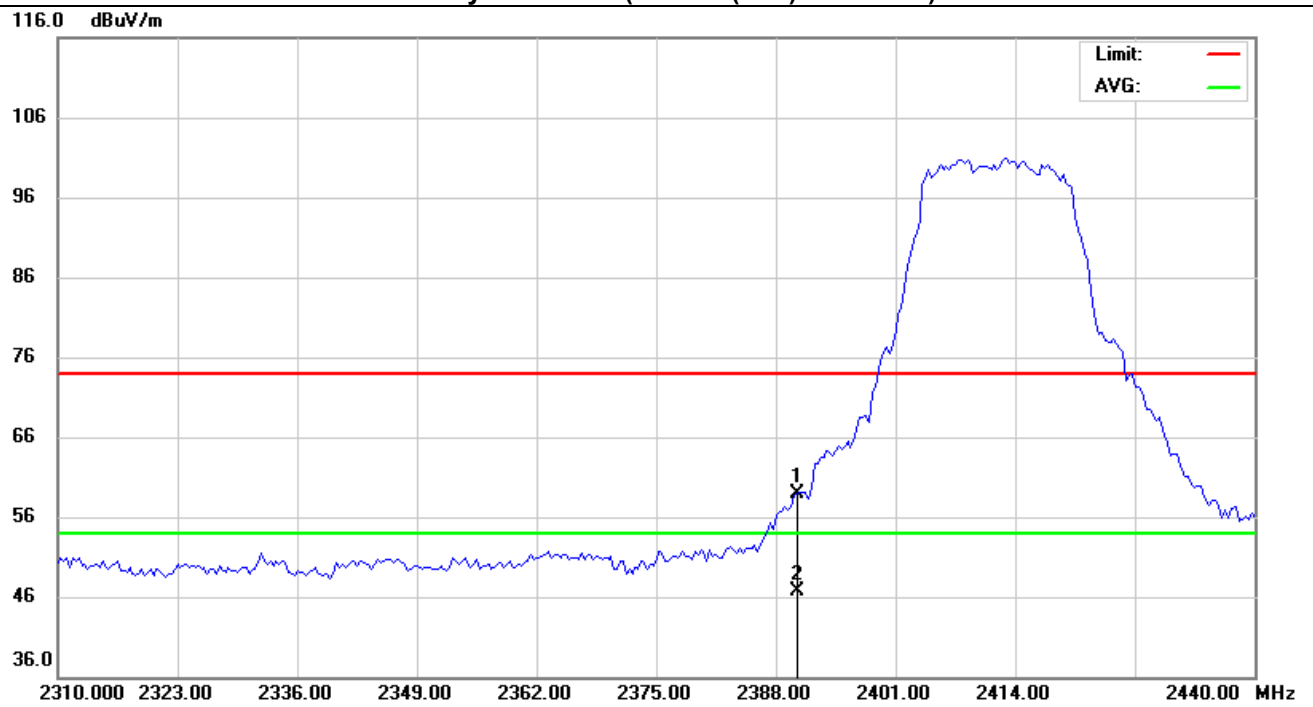
Polarity:HORIZONTAL(802.11n(H2O) -2390MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	68.62	-8.43	60.19	74.00	-13.81			peak
2	*	2390.000	52.10	-8.43	43.67	54.00	-10.33			AVG

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

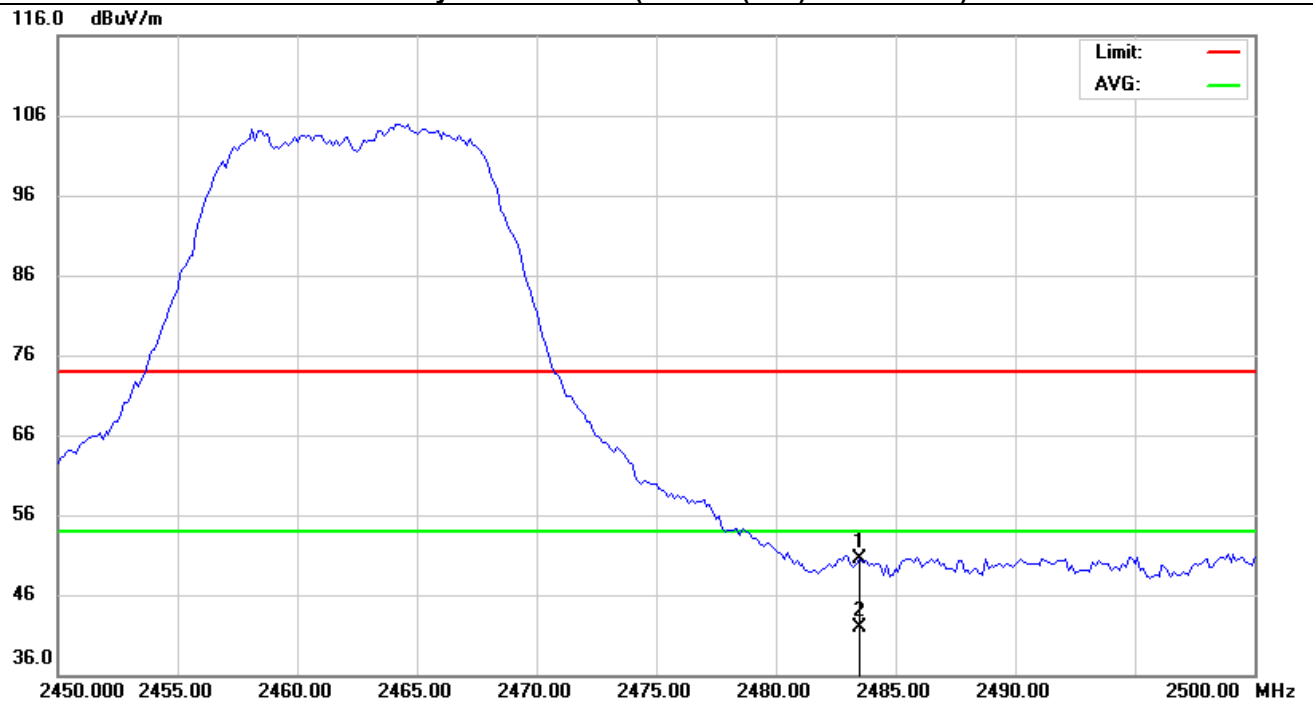
Polarity:VERTICAL(802.11n(H20) -2390MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		2390.000	67.41	-8.43	58.98	74.00	-15.02	peak			
2	*	2390.000	55.10	-8.43	46.67	54.00	-7.33	AVG			

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

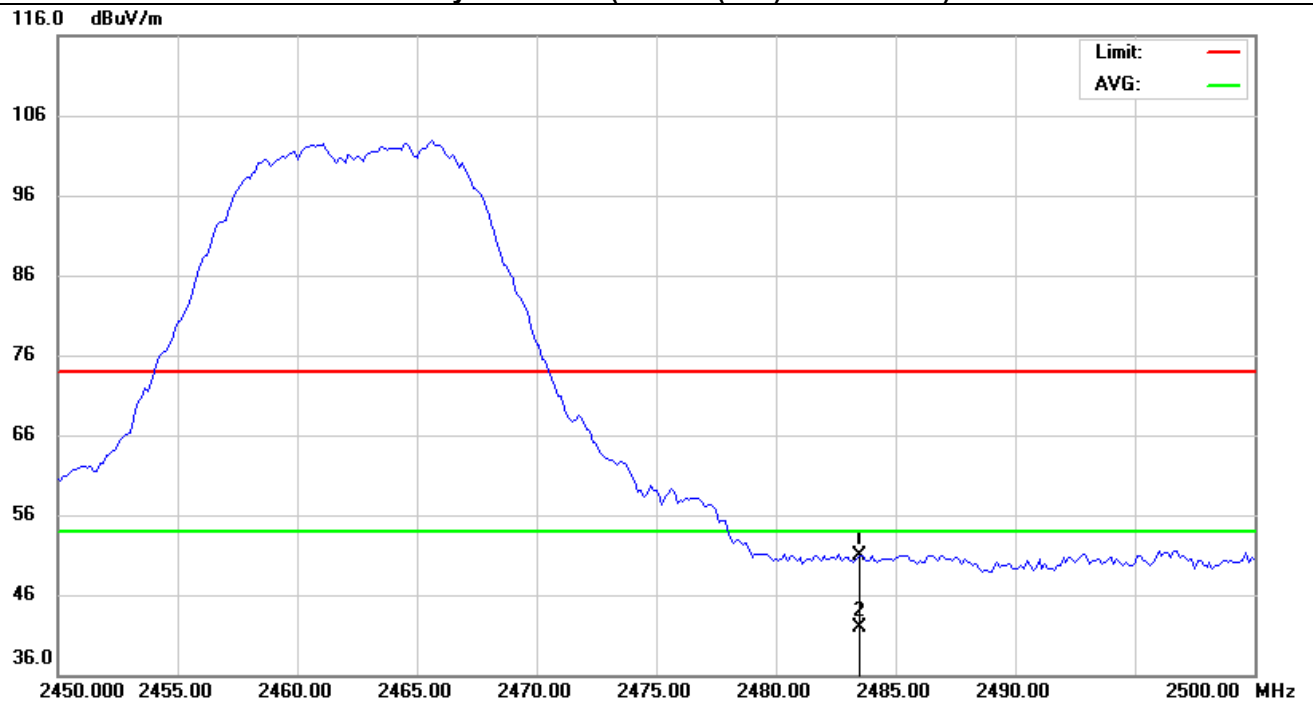
Polarity:HORIZONTAL(802.11n(H2O) -2483.5MHz)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	58.77	-8.29	50.48	74.00	-23.52			peak
2	*	2483.500	50.10	-8.29	41.81	54.00	-12.19			AVG

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

Polarity:VERTICAL(802.11n(H20) -2483.5MHz)



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2483.500	59.27	-8.29	50.98	74.00	-23.02			peak
2	*	2483.500	50.23	-8.29	41.94	54.00	-12.06			AVG

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

5.4 Maximum Conducted Output Power

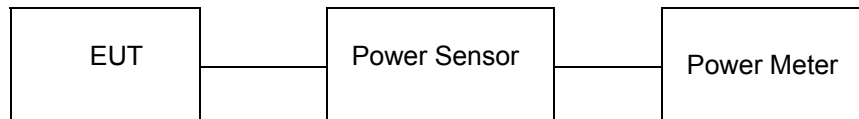
Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

See Appendix I

5.5 Power Spectral Density

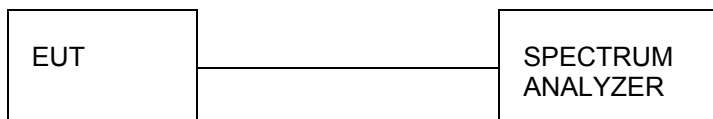
Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW \geq 3 kHz.
3. Set the VBW \geq 3 \times RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

Test Configuration



Test Results

See Appendix VI

5.6 6dB Bandwidth

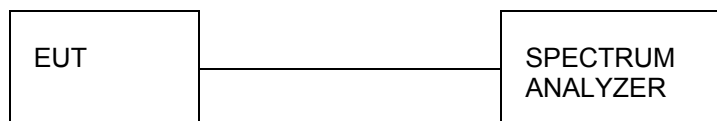
Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

See Appendix III

5.7 Out-of-band Emissions

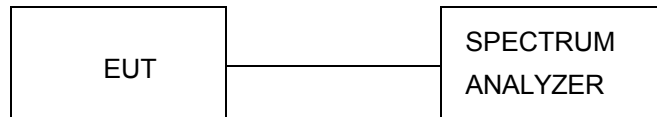
Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration



Test Results

See Appendix IV

5.8 Duty Cycle Information

See Appendix V

5.9 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

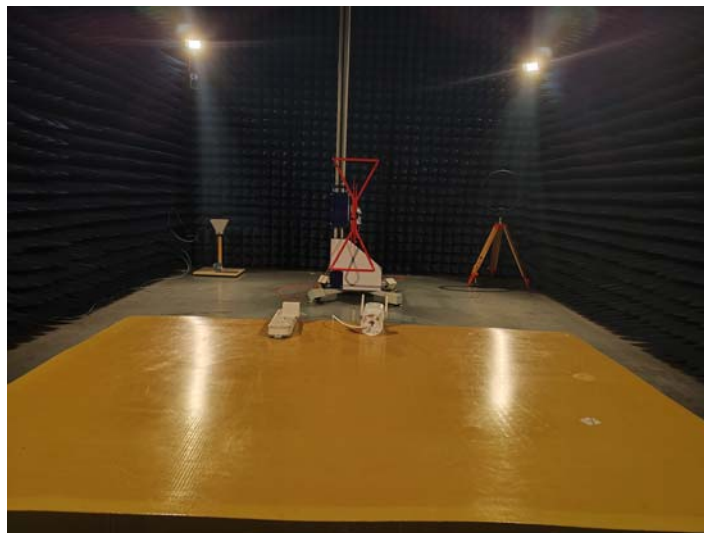
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional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

Test Result:

The directional gains of antenna used for transmitting is 3.52dBi, and the antenna is and FPC antenna and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6 Test Setup Photos of the EUT



7 Photos of the EUT

See related photo report.

APPENDIX I. Conducted Peak Output Power

Test Result

Conducted peak output power

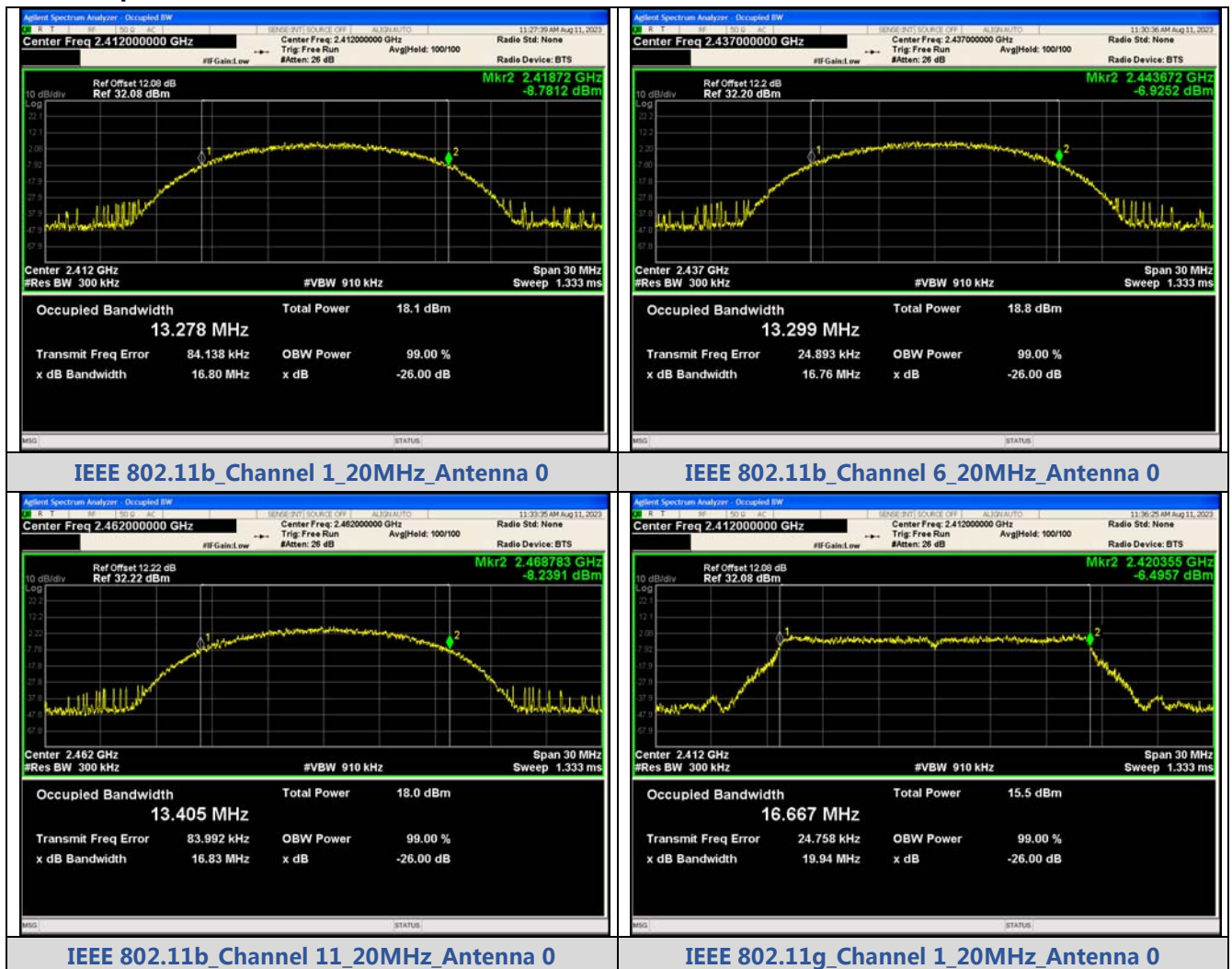
Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Ant. 2 (dBm)	Ant. 3 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	17.30				N/A	30	PASS
	6	18.18				N/A	30	PASS
	11	17.48				N/A	30	PASS
IEEE 802.11g	1	16.95				N/A	30	PASS
	6	17.78				N/A	30	PASS
	11	18.00				N/A	30	PASS
IEEE 802.11n_20	1	16.89				N/A	30	PASS
	6	17.68				N/A	30	PASS
	11	17.95				N/A	30	PASS

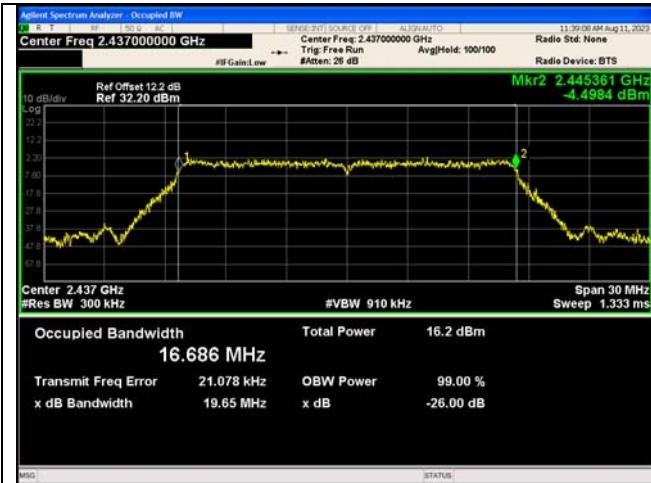
APPENDIX II.99% Bandwidth

Test Result

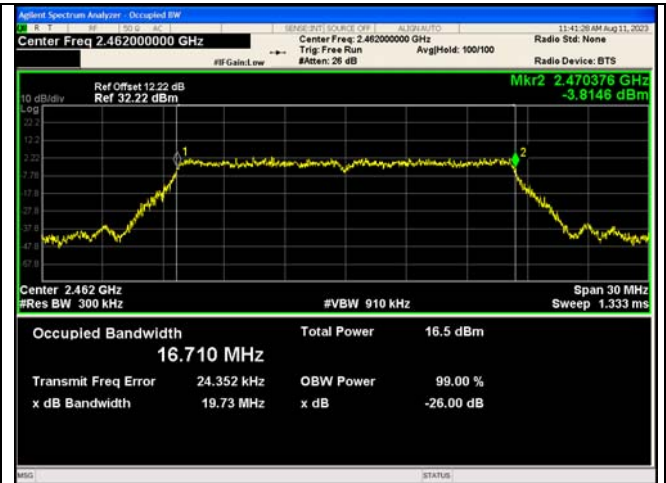
Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11b	1	0	13.278
	6		13.299
	11		13.405
IEEE 802.11g	1		16.667
	6		16.686
	11		16.710
IEEE 802.11n_20	1		17.661
	6		17.683
	11		17.673

Test Graphs

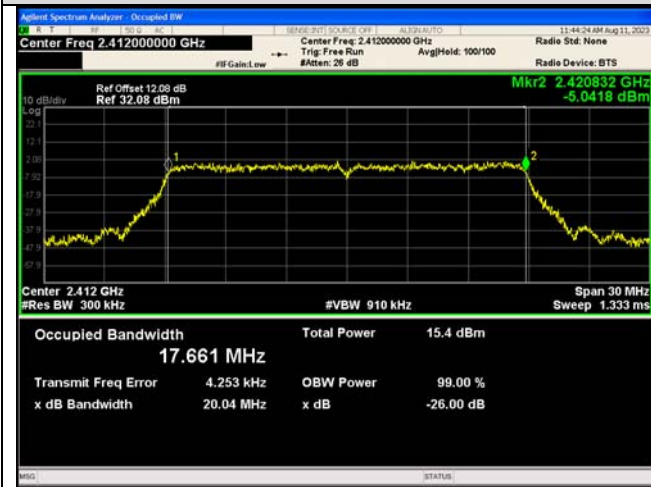




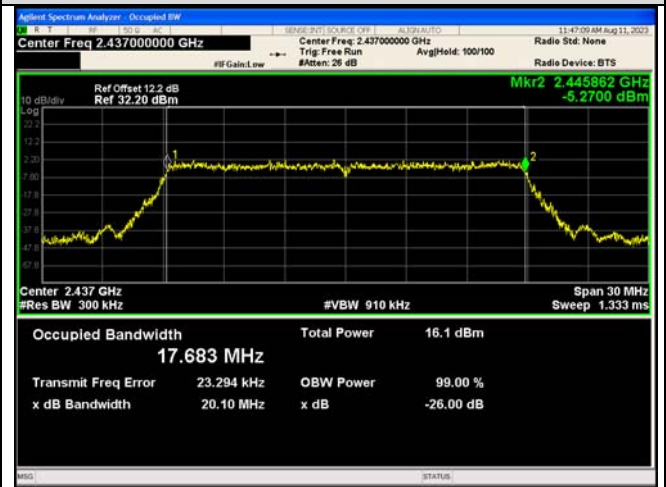
IEEE 802.11g_Channel 6_20MHz_Antenna 0



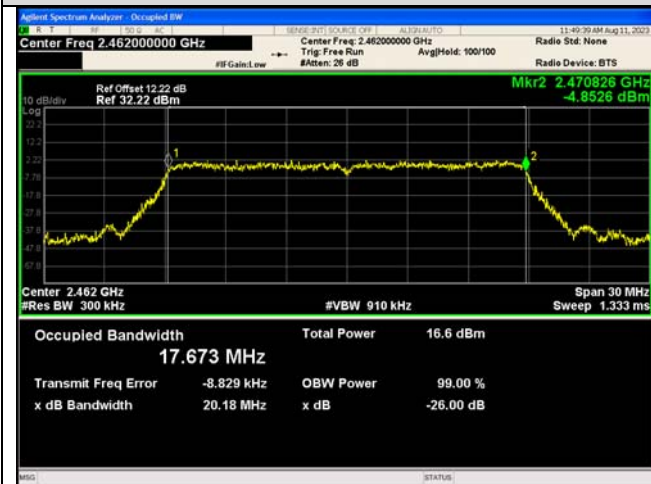
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

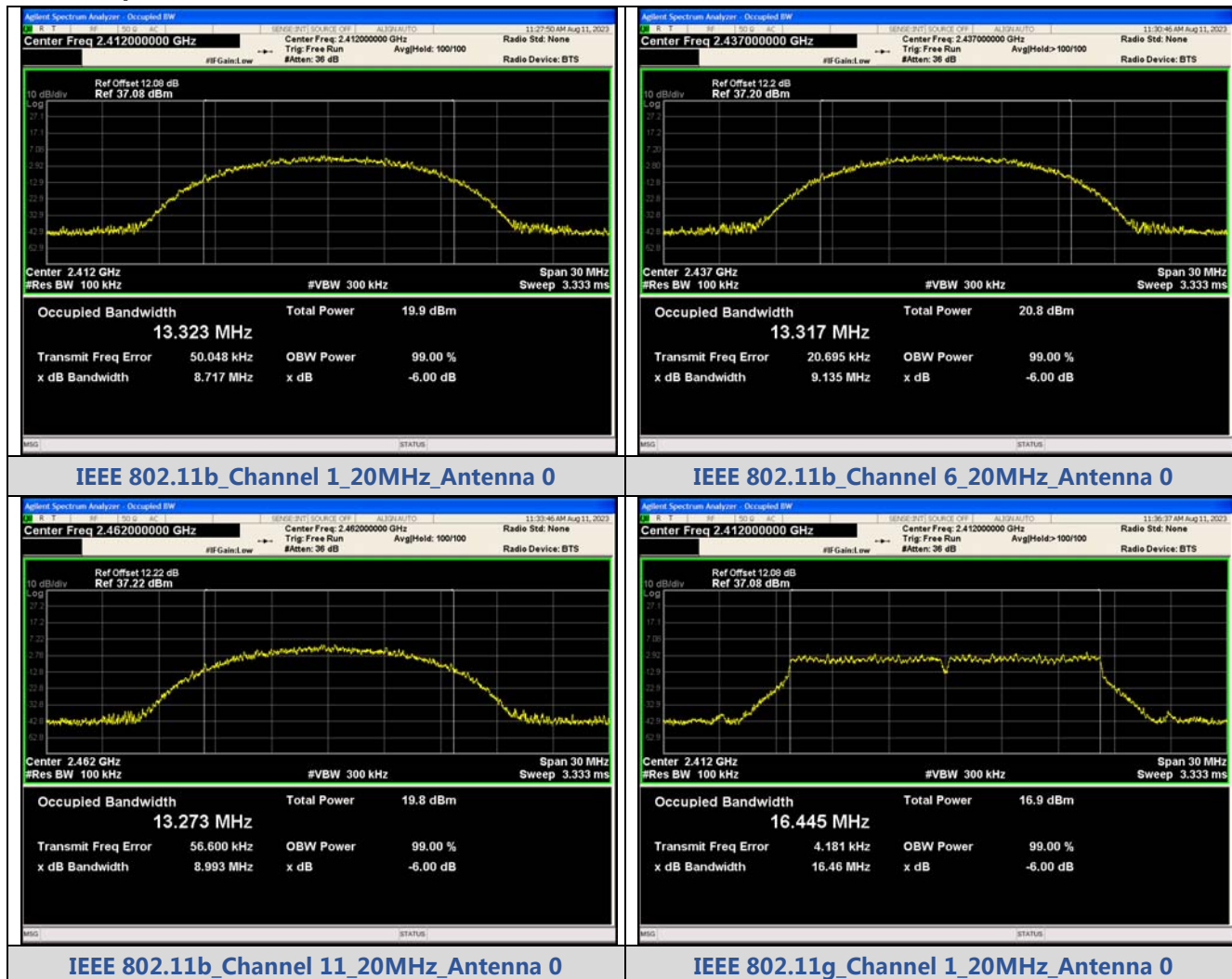
Void

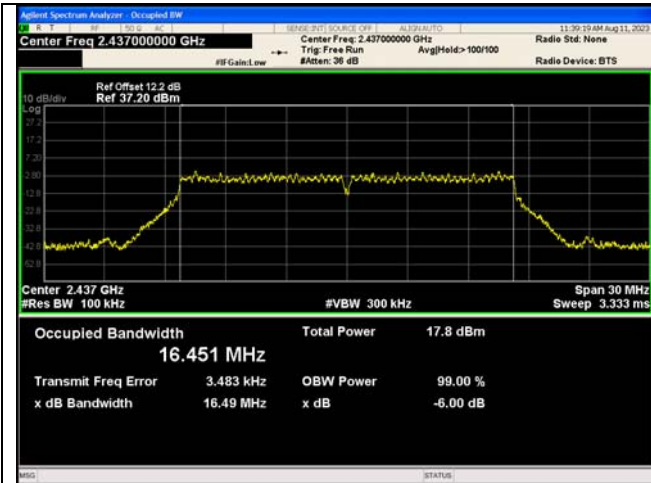
APPENDIX III.6dB Bandwidth

Test Result

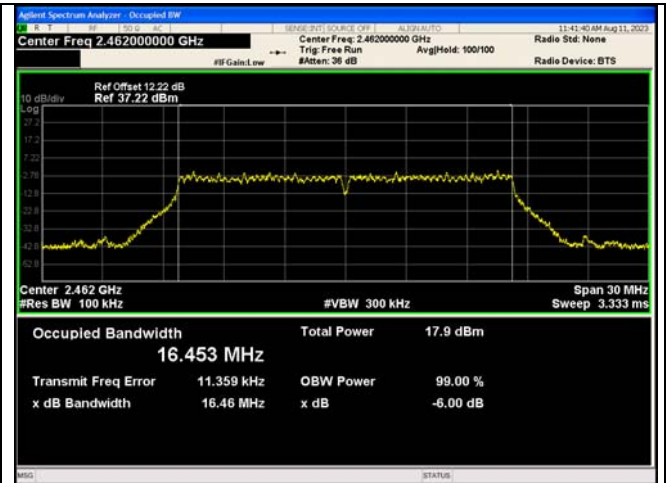
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.717	0.5	PASS
	6		2437	9.135		PASS
	11		2462	8.993		PASS
IEEE 802.11g	1		2412	16.46		PASS
	6		2437	16.49		PASS
	11		2462	16.46		PASS
IEEE 802.11n_20	1		2412	17.67		PASS
	6		2437	17.63		PASS
	11		2462	17.59		PASS

Test Graphs

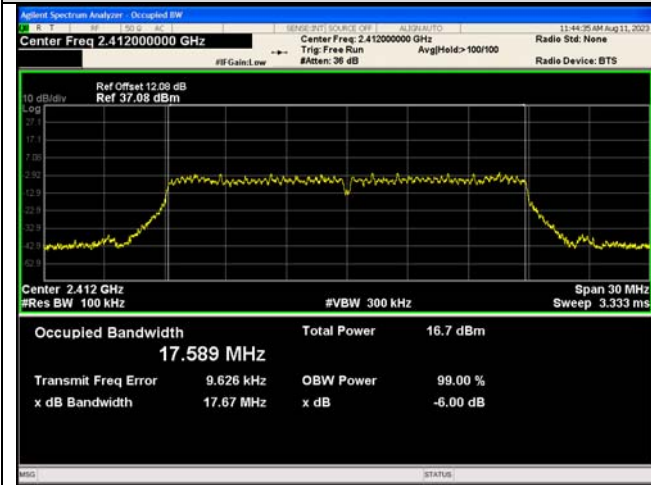




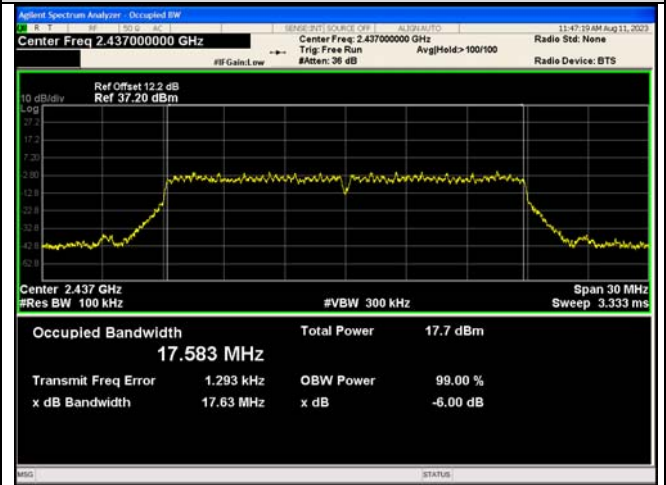
IEEE 802.11g_Channel 6_20MHz_Antenna 0



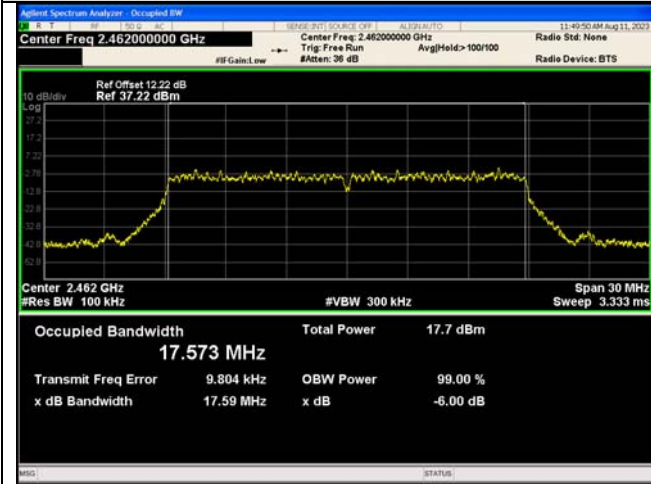
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

Void

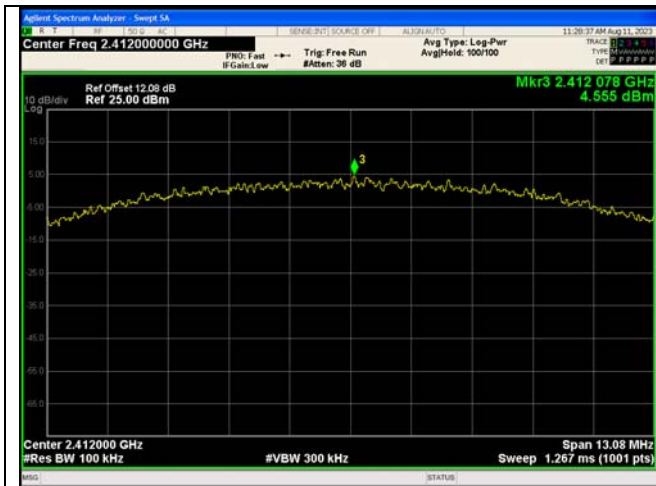
APPENDIX IV. Conducted Out Of Band Emission

Test Result

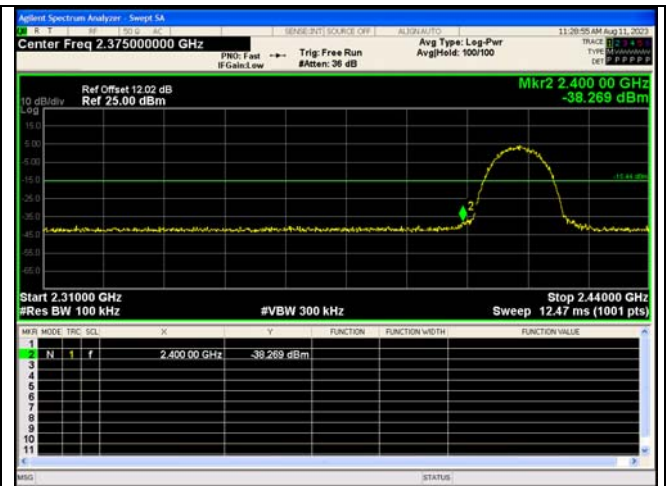
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2400.00	-38.269	-15.44	-23	PASS
			4823.74	-35.958	-15.44	-20.518	PASS
			7235.90	-56.202	-15.44	-40.762	PASS
			9629.96	-57.928	-15.44	-42.488	PASS
			24941.3	-41.942	-15.44	-26.502	PASS
	6		4871.18	-47.649	-15.26	-32.389	PASS
			7320.80	-56.399	-15.26	-41.139	PASS
			9737.95	-57.007	-15.26	-41.747	PASS
			24945.7	-41.819	-15.26	-26.559	PASS
	11		2483.50	-41.485	-15.75	-26	PASS
			4924.24	-49.608	-15.75	-33.858	PASS
			7393.84	-57.922	-15.75	-42.172	PASS
			9855.32	-56.337	-15.75	-40.587	PASS
			24929.5	-41.449	-15.75	-25.699	PASS
IEEE 802.11g	1	2400.00	-39.231	-20.55	-18.681	PASS	
		2398.53	-38.959	-20.55	-18.409	PASS	
		4825.00	-50.631	-20.55	-30.081	PASS	
		7232.80	-57.104	-20.55	-36.554	PASS	
		9654.30	-57.798	-20.55	-37.248	PASS	
		24983.1	-41.646	-20.55	-21.096	PASS	
	6	4876.17	-52.349	-20.0	-32.349	PASS	
		7305.82	-57.374	-20.0	-37.374	PASS	
		9748.57	-57.060	-20.0	-37.060	PASS	
		24925.7	-41.980	-20.0	-21.980	PASS	
	11	2483.50	-41.768	-19.41	-22	PASS	
		4925.49	-51.399	-19.41	-31.989	PASS	
		7403.20	-57.910	-19.41	-38.500	PASS	
		9830.35	-56.895	-19.41	-37.485	PASS	
IEEE 802.11n_20	1	2400.00	-38.095	-20.59	-18	PASS	
		4827.48	-49.902	-20.59	-29.312	PASS	
		7225.29	-56.681	-20.59	-36.091	PASS	
	6	9659.30	-57.877	-20.59	-37.287	PASS	
		24911.4	-41.114	-20.59	-20.524	PASS	
		4873.05	-53.128	-19.99	-33.138	PASS	
			7325.79	-57.389	-19.99	-37.399	PASS

11	9756.68	-57.025	-19.99	-37.035	PASS
	24961.9	-41.594	-19.99	-21.604	PASS
	2483.50	-40.614	-19.41	-21	PASS
	4922.99	-48.976	-19.41	-29.566	PASS
	7369.49	-57.198	-19.41	-37.788	PASS
	9829.72	-57.534	-19.41	-38.124	PASS
	24939.4	-41.030	-19.41	-21.620	PASS

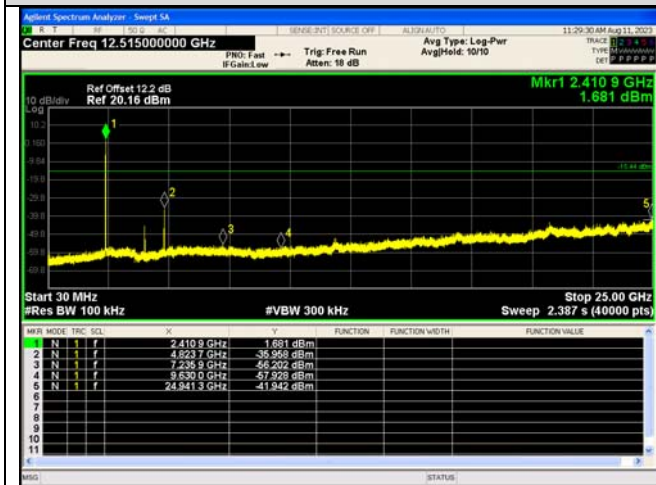
Test Graphs



In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



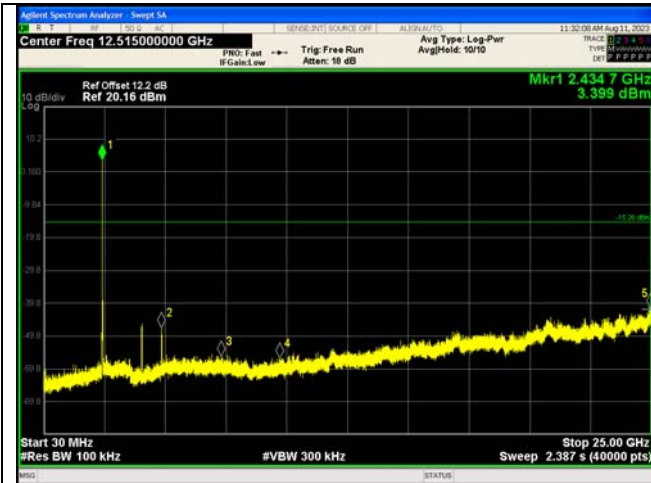
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



Spurious Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



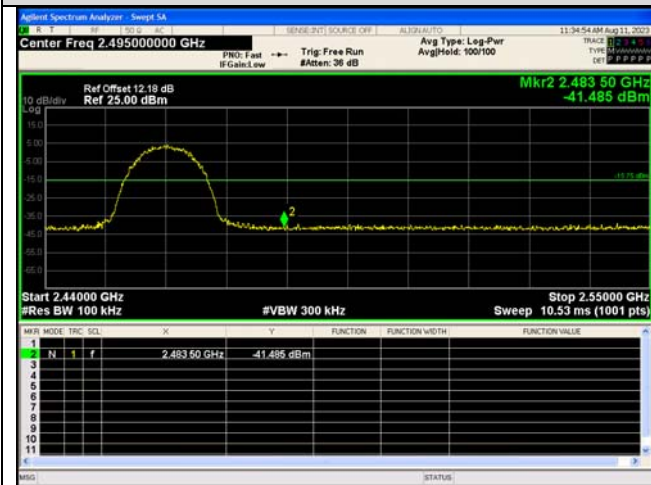
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



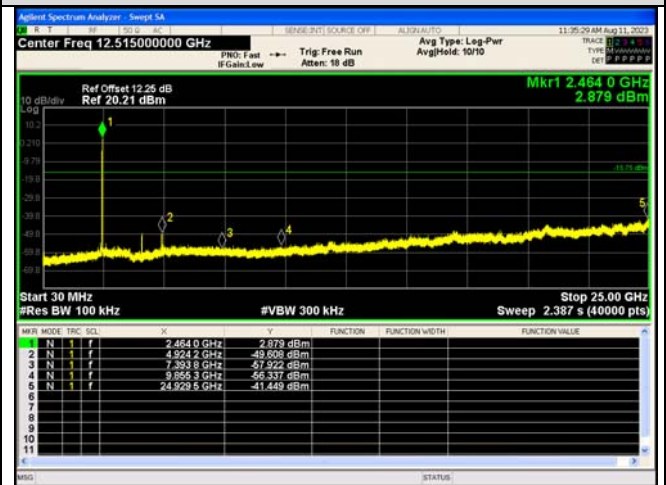
Spurious Emissions
 IEEE 802.11b_Channel 6_20MHz_Antenna 0



In-Band Reference Level
 IEEE 802.11b_Channel 11_20MHz_Antenna 0



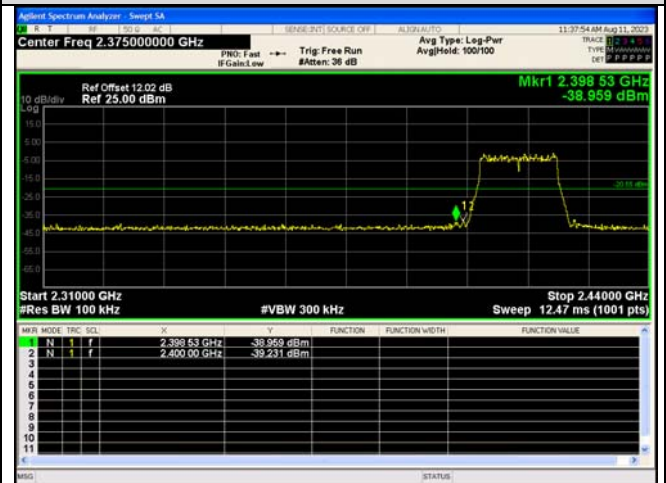
Out Of Band Emission
 IEEE 802.11b_Channel 11_20MHz_Antenna 0



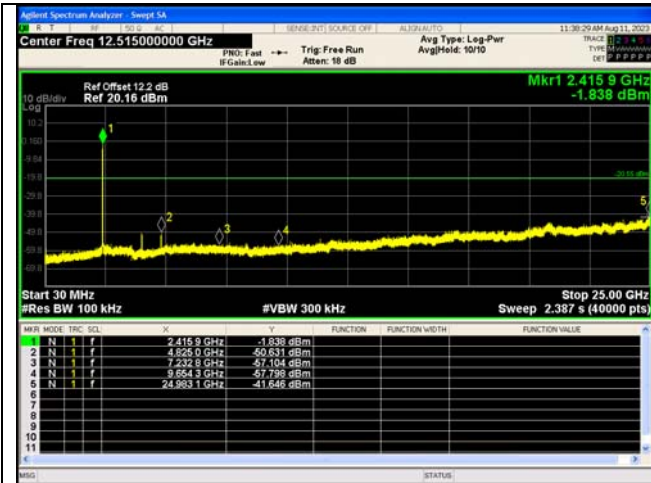
Spurious Emission
 IEEE 802.11b_Channel 11_20MHz_Antenna 0



In-Band Reference Level
 IEEE 802.11g_Channel 1_20MHz_Antenna 0



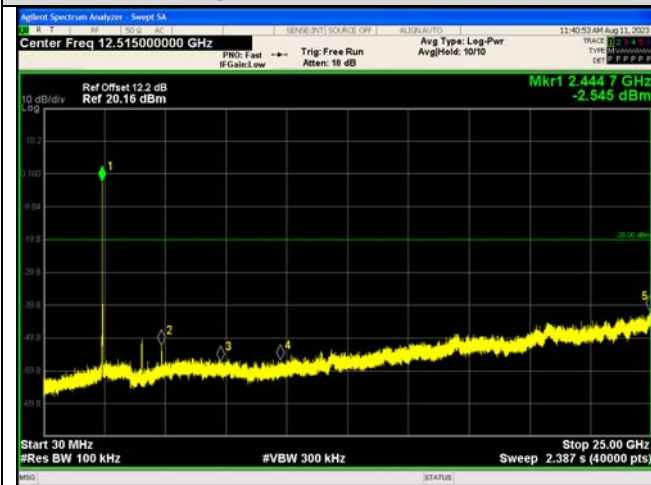
Out Of Band Emission
 IEEE 802.11g_Channel 1_20MHz_Antenna 0



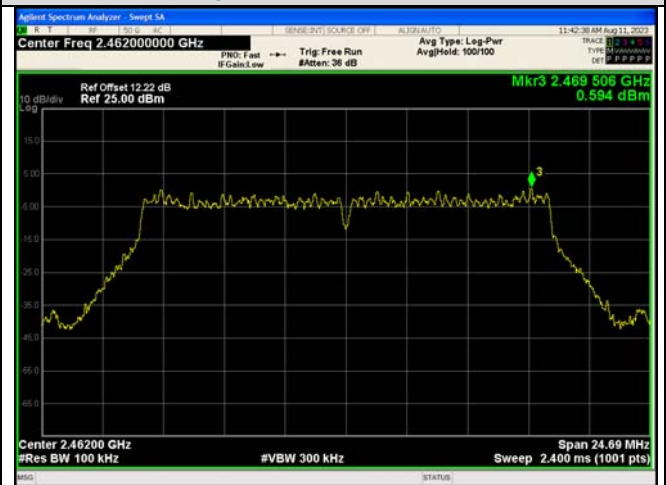
Spurious Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



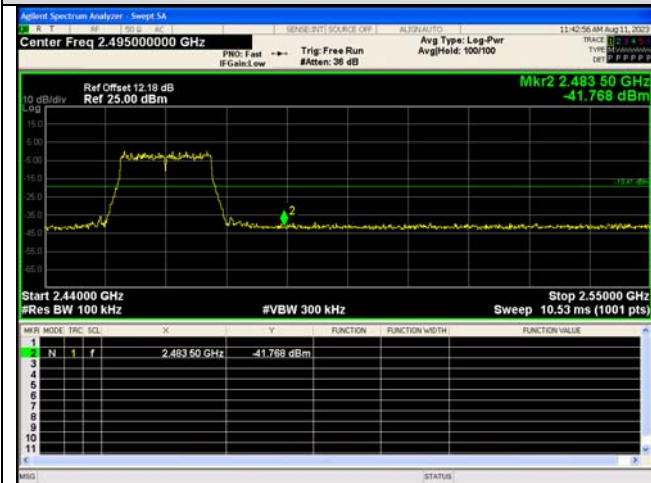
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



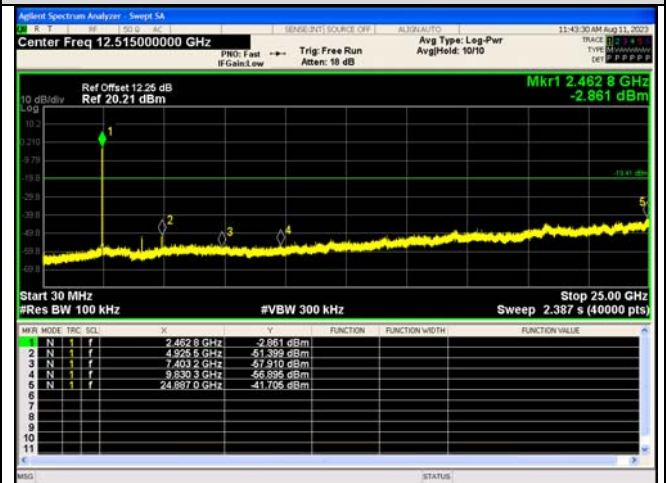
Spurious Emissions
IEEE 802.11g_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



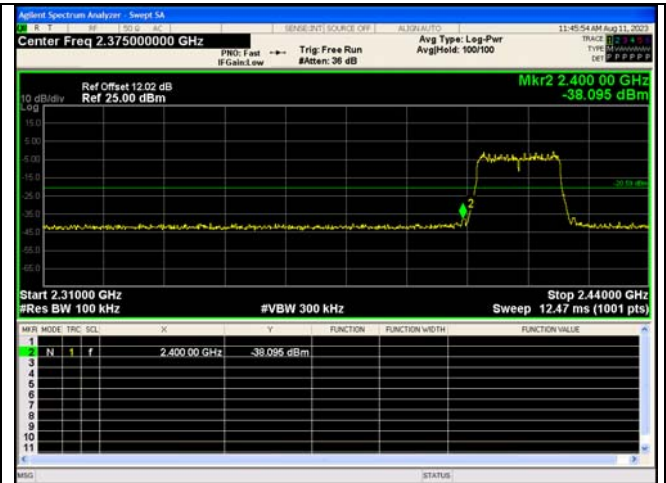
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



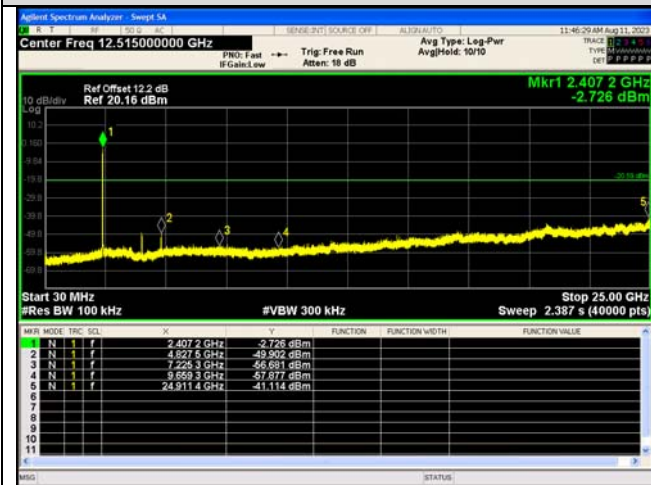
Spurious Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



In-Band Reference Level
 IEEE 802.11n_Channel 1_20MHz_Antenna 0



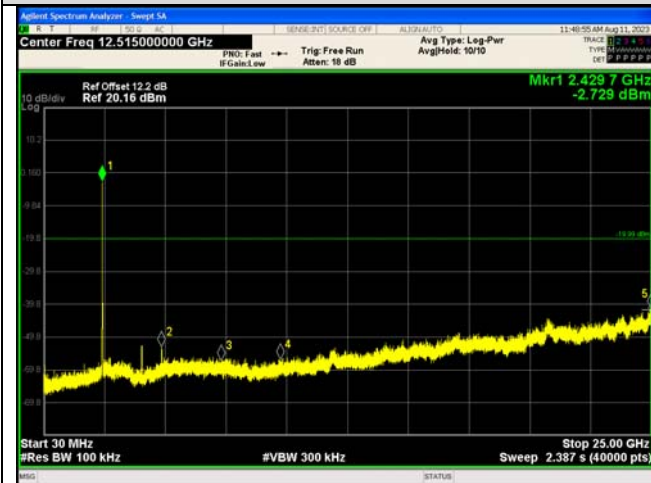
Out of Band Emission
 IEEE 802.11n_Channel 1_20MHz_Antenna 0



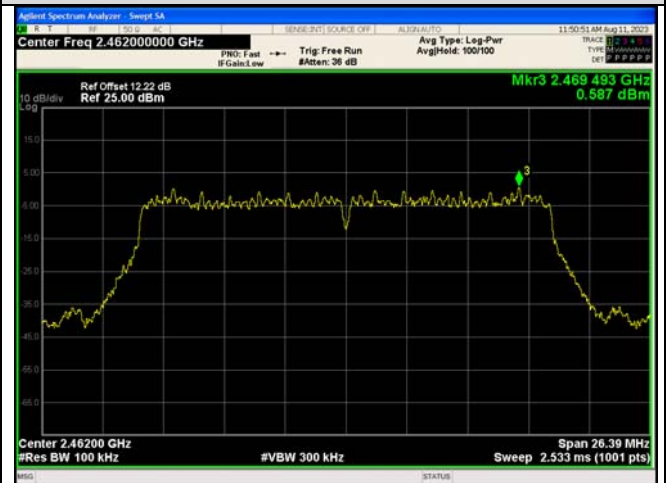
Spurious Emission
 IEEE 802.11n_Channel 1_20MHz_Antenna 0



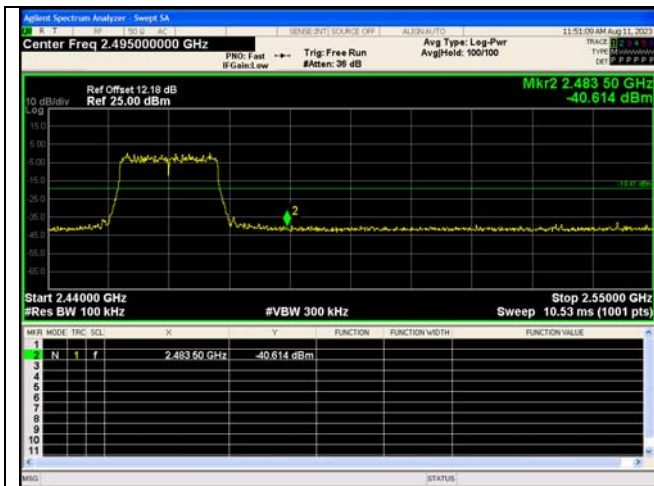
In-Band Reference Level
 IEEE 802.11n_Channel 6_20MHz_Antenna 0



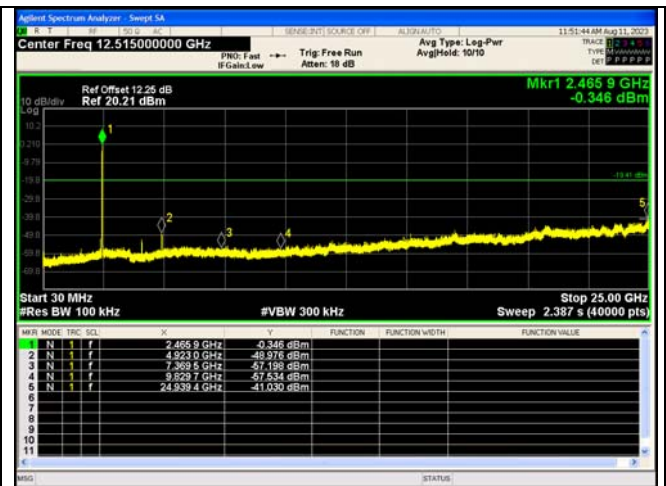
Spurious Emissions
 IEEE 802.11n_Channel 6_20MHz_Antenna 0



In-Band Reference Level
 IEEE 802.11n_Channel 11_20MHz_Antenna 0



Out Of Band Emission
 IEEE 802.11n_Channel 11_20MHz_Antenna 0



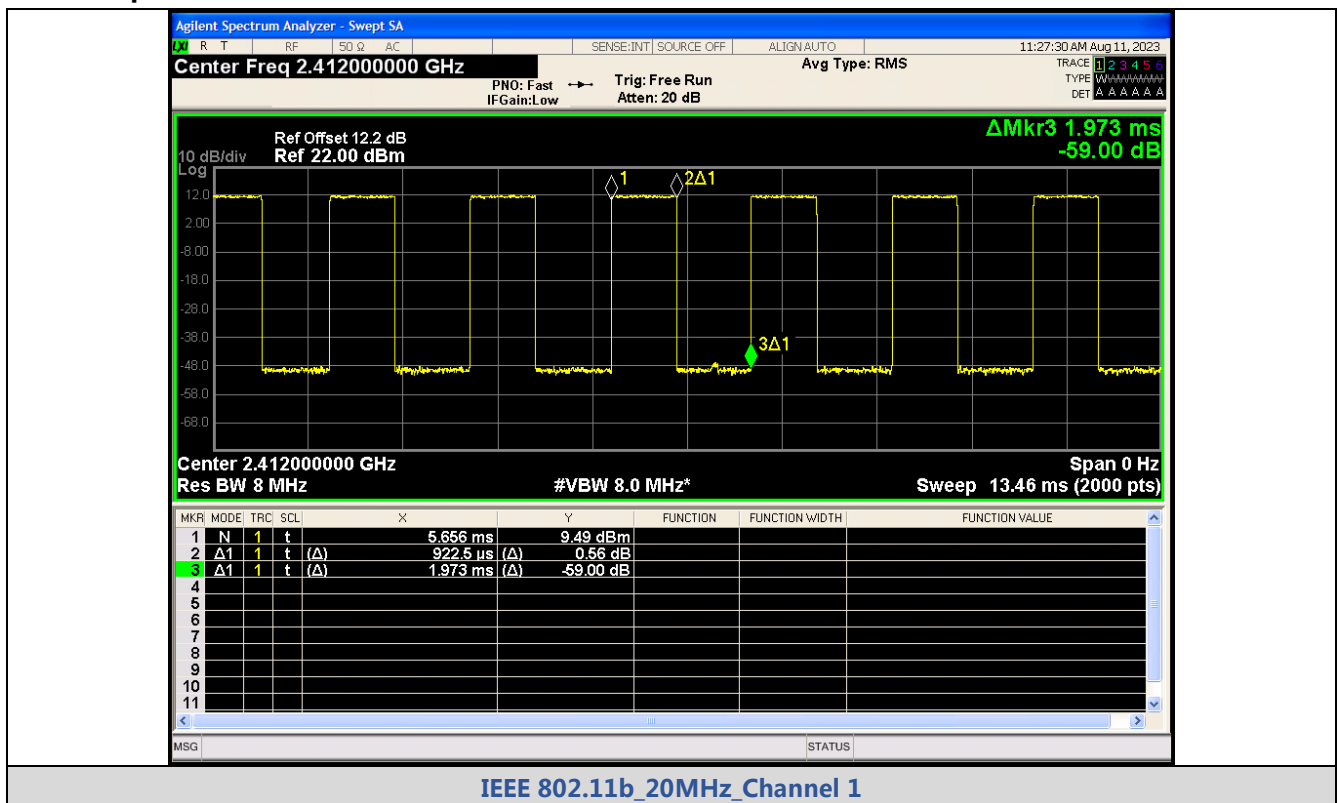
Spurious Emission
 IEEE 802.11n_Channel 11_20MHz_Antenna 0

APPENDIX V.Duty Cycle

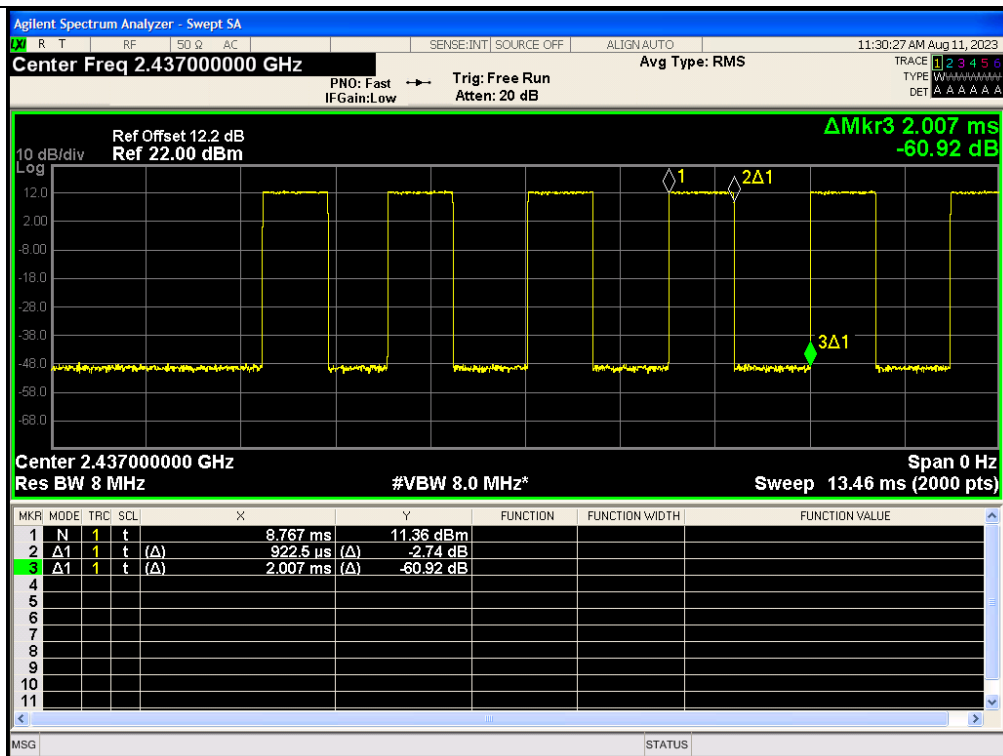
Test Result

Mode	Data rates	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	11	1	0.922	1.973	46.76	0.4676	3.3013
		6	0.922	2.007	45.97	0.4597	3.3753
		11	0.922	2.000	46.13	0.4613	3.3602
IEEE 802.11g	54	1	0.520	0.996	52.22	0.5222	2.8216
		6	0.524	0.996	52.56	0.5256	2.7934
		11	0.520	1.000	52.04	0.5204	2.8366
IEEE 802.11n_20	MCS 7	1	0.521	1.013	51.45	0.5145	2.8861
		6	0.527	1.010	52.19	0.5219	2.8241
		11	0.521	0.991	52.63	0.5263	2.7877

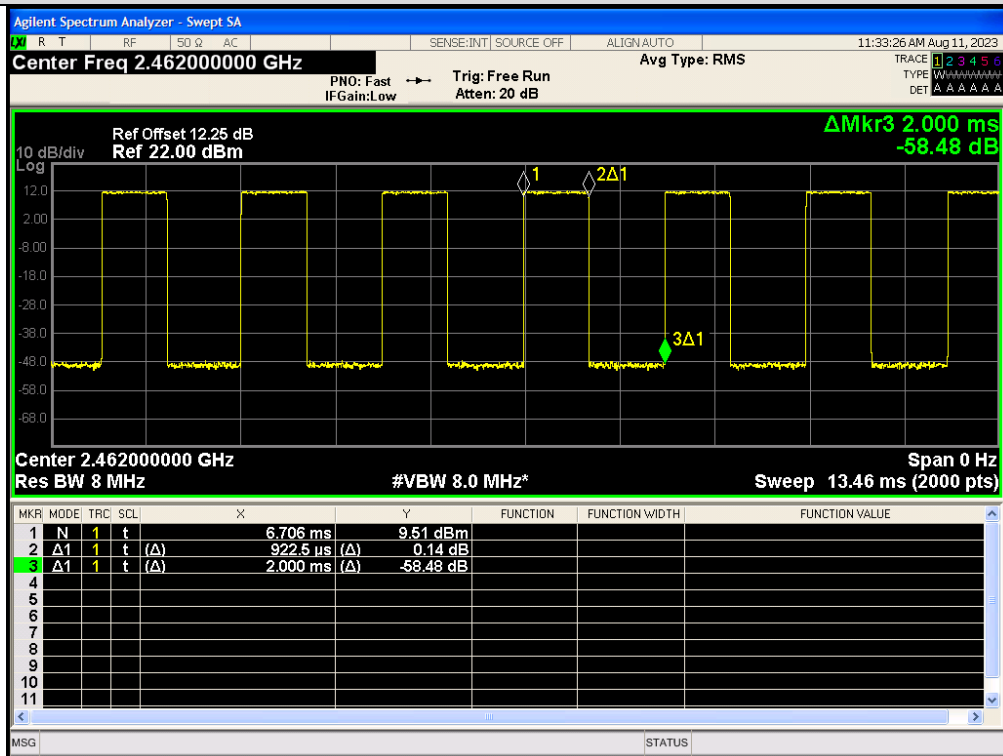
Test Graphs



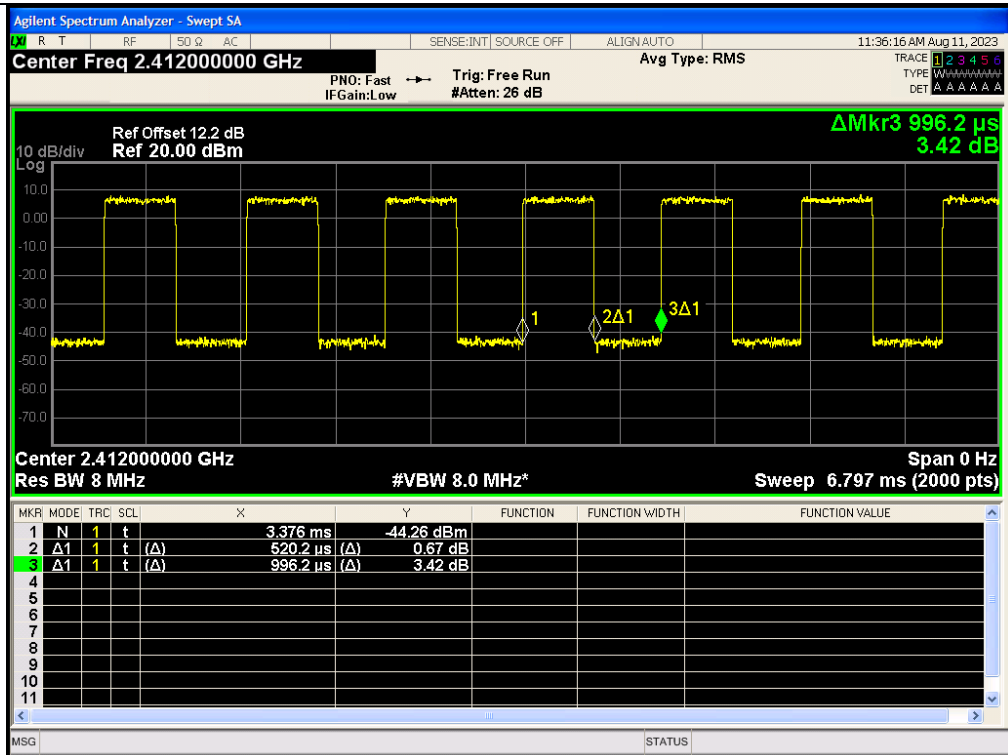
IEEE 802.11b_20MHz_Channel 1



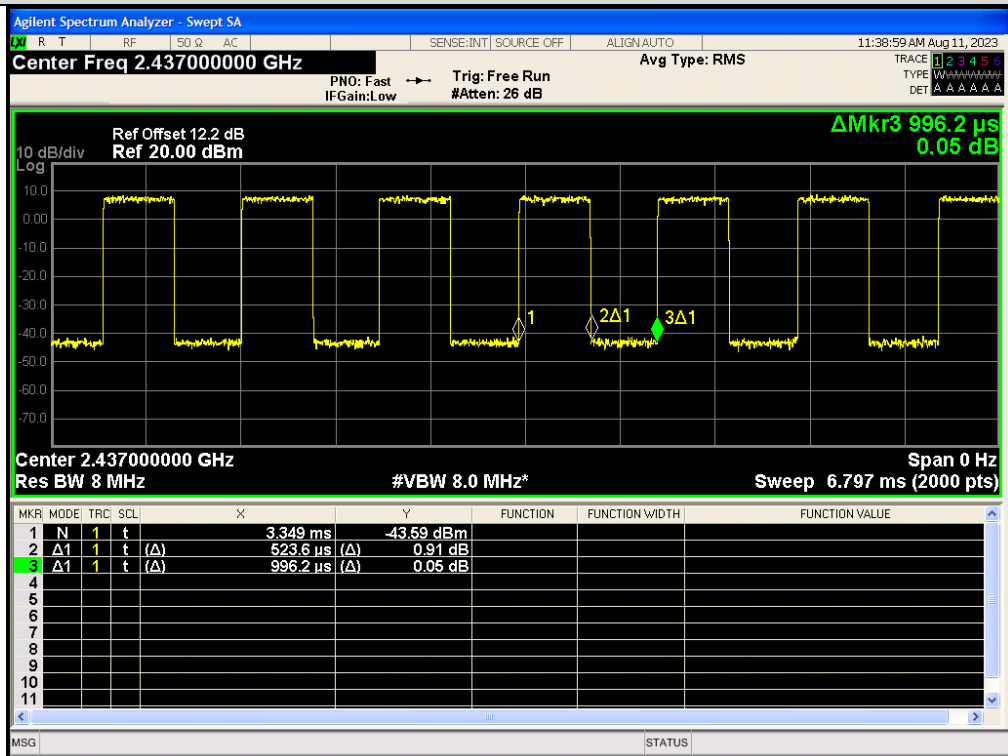
IEEE 802.11b_20MHz_Channel 6



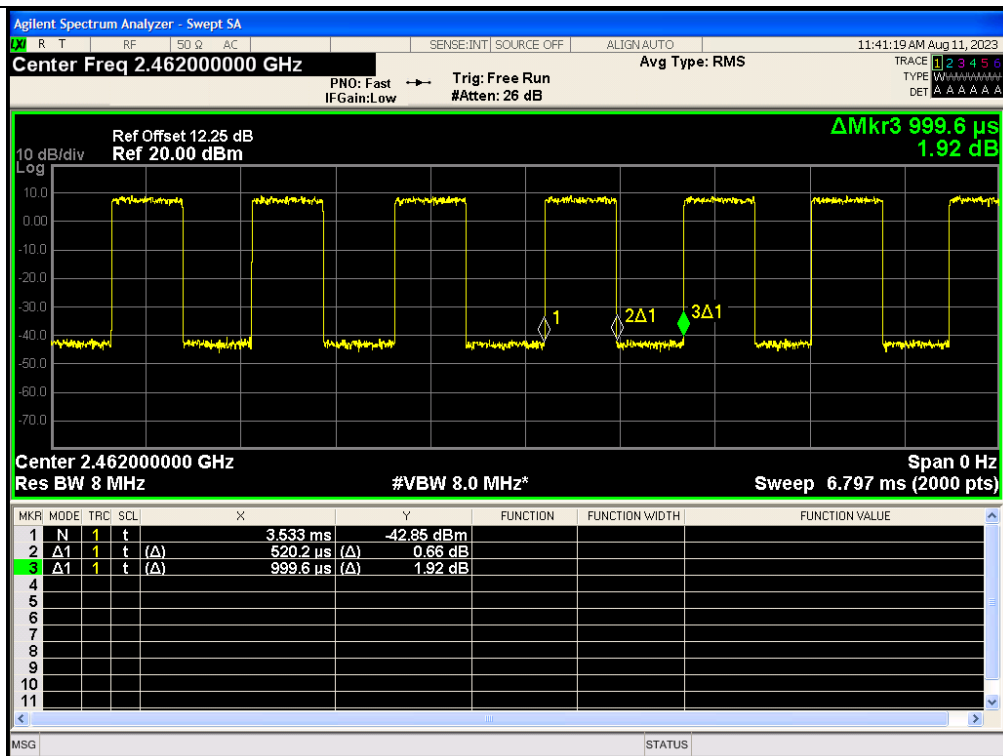
IEEE 802.11b_20MHz_Channel 11



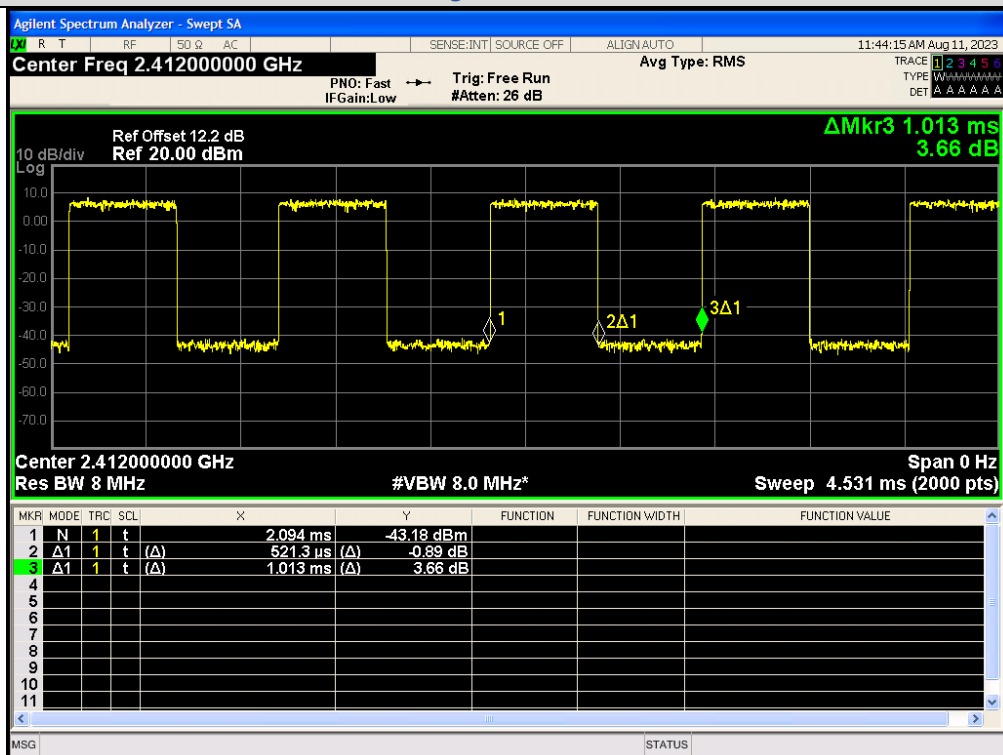
IEEE 802.11g_20MHz_Channel 1



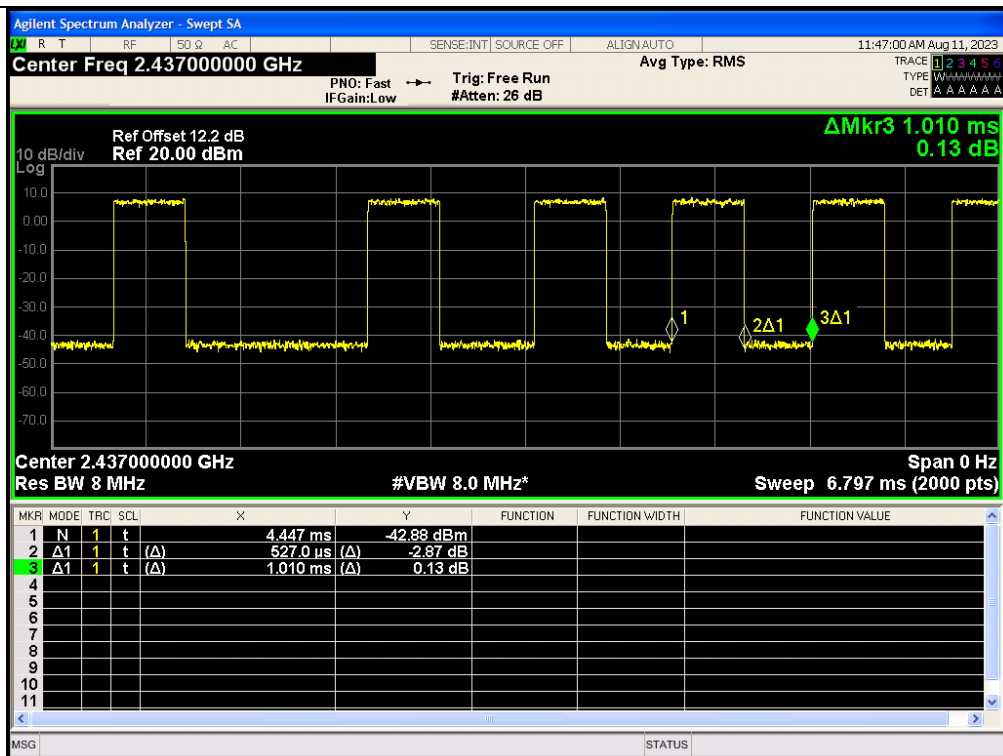
IEEE 802.11g_20MHz_Channel 6



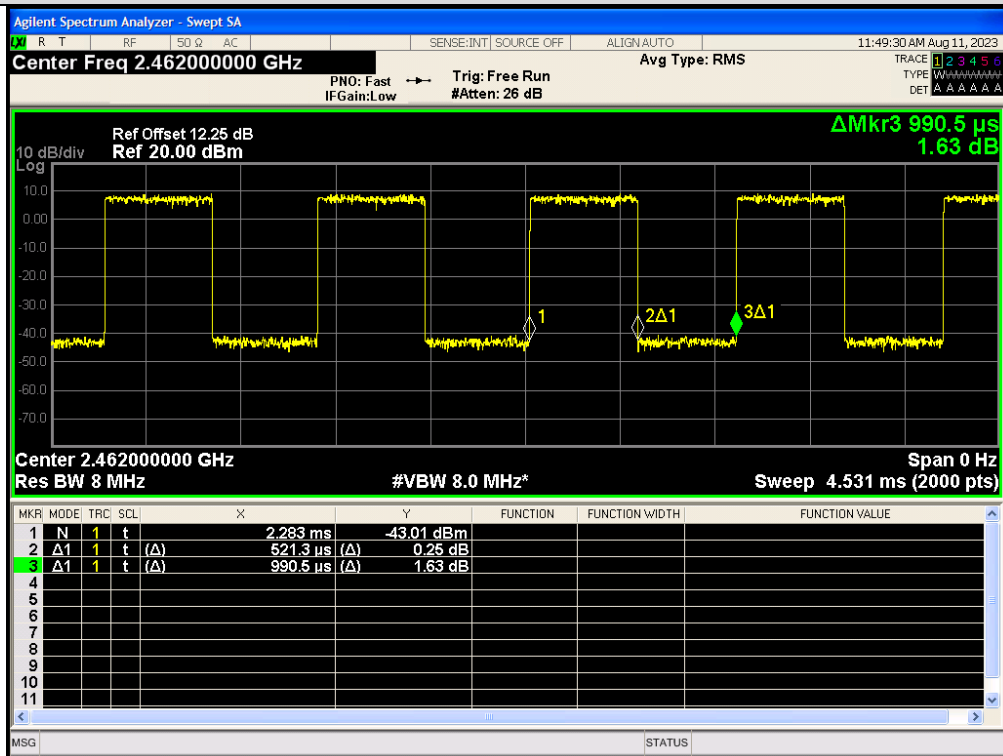
IEEE 802.11g_20MHz_Channel 11



IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 6



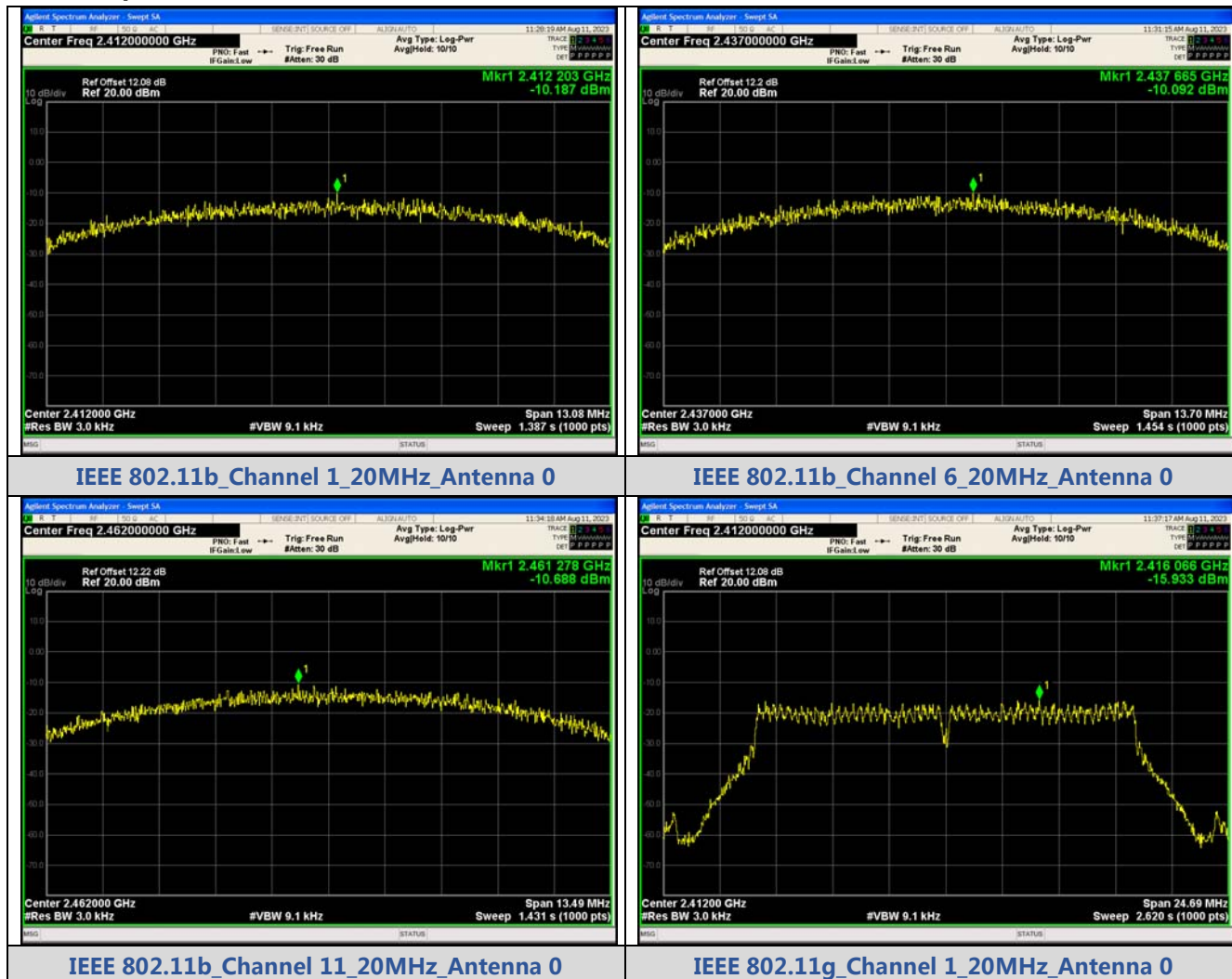
IEEE 802.11n_20MHz_Channel 11

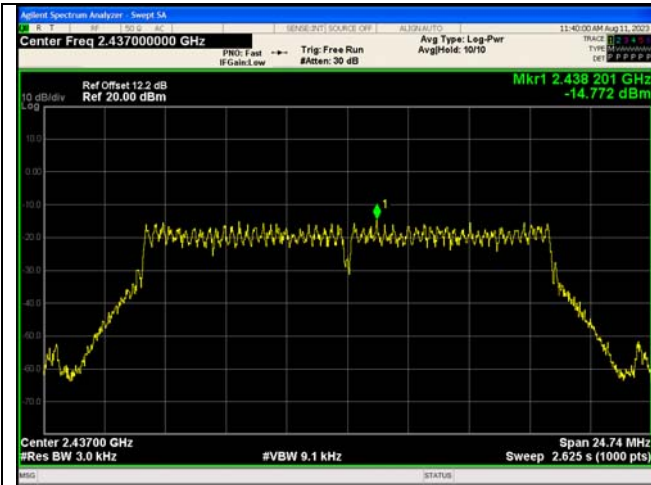
APPENDIX VI. Power Spectral Density

Test Result

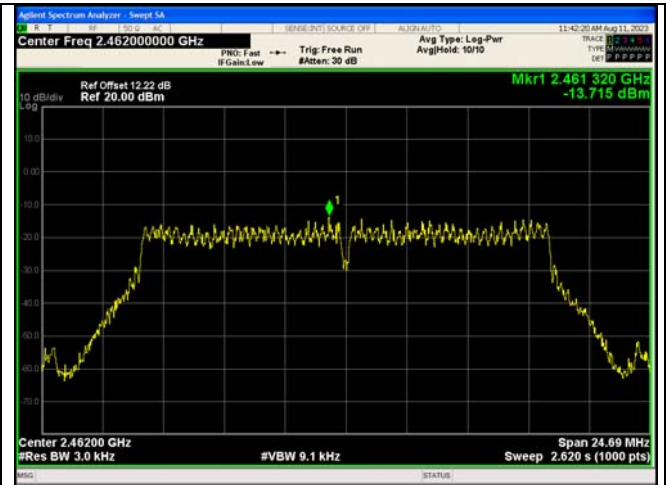
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-10.187	8	PASS
	6	-10.092		PASS
	11	-10.688		PASS
IEEE 802.11g	1	-15.933		PASS
	6	-14.772		PASS
	11	-13.715		PASS
IEEE 802.11n_20	1	-15.371		PASS
	6	-15.061		PASS
	11	-13.774		PASS

Test Graphs

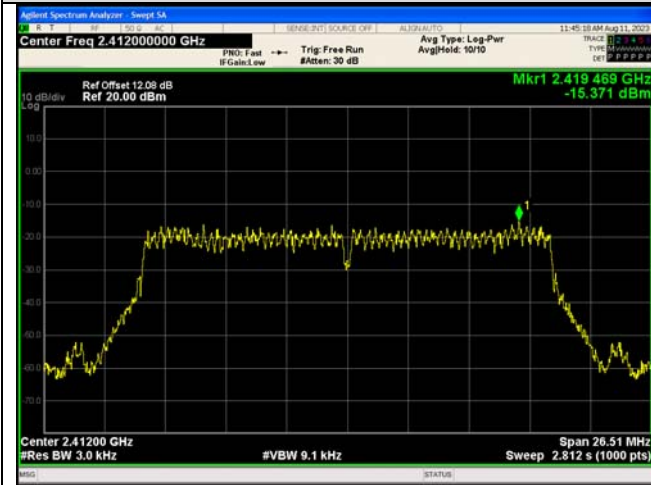




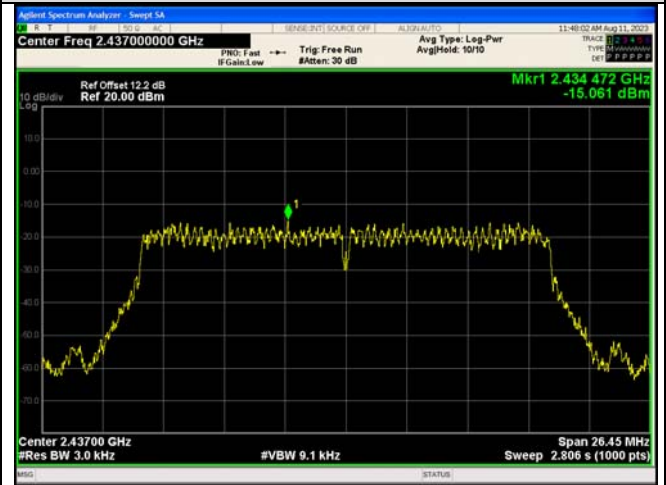
IEEE 802.11g_Channel 6_20MHz_Antenna 0



IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

Void

***** End of Report *****