

FCC TEST REPORT
for
Shenzhen vYou Technology Co., Ltd.

DDpai
Model No.: mini2, mini, M5S, M5

Prepared for : Shenzhen vYou Technology Co., Ltd.
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Date of Test : Apr. 05~20, 2016
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TEST REPORT

Applicant : Shenzhen vYou Technology Co., Ltd.
Manufacturer : Shenzhen vYou Technology Co., Ltd.
EUT : DDpai
Model No. : mini2, mini, M5S, M5
Serial No. : N.A.
Trade Mark : N.A.
Rating : DC5V, 2A

Measurement Procedure Used:
FCC Part15 Subpart C 2015, Paragraph 15.247

The device described above is tested by Shenzhen Anbotech Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotech Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotech Compliance Laboratory Limited.

Date of Test : Apr. 05~20, 2016

Kebo Zhang

Prepared by :

(Tested Engineer / Kebo Zhang)

Dolly mo

Reviewer :

(Project Manager / Dolly Mo)

Approved & Authorized Signer :

Tom Chen

(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: DDpai
Model Number	: mini2, mini, M5S, M5 (Note: All samples are the same except the model number and colour, so we prepare “mini2” for test only.)
Test Power Supply	: DC 12V / DC 24V
Car Adapter	: Model No.: N/A Input: DC 12V 1.5A Output 1: DC 5V, 1A Output 2: DC 5V, 2.1A
RF Transmission Frequency	: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channels	: 11 For (802.11b/802.11g/802.11n(HT20)) 7 For (802.11n(HT40))
Modulation	: 802.11b CCK; 802.11g OFDM; 802.11n MCS
Antenna Gain:	: 2.41dBi
Applicant Address	: Shenzhen vYou Technology Co., Ltd. Floor 12, Yihua Finance Building, Nanshan Software Industry Park, Xuefu Rd., Nanshan District, Shenzhen, China
Manufacturer Address	: Shenzhen vYou Technology Co., Ltd. Floor 12, Yihua Finance Building, Nanshan Software Industry Park, Xuefu Rd., Nanshan District, Shenzhen, China
Factory Address	: Shenzhen niuman amp Technology Co., Ltd. 5 Floor 4# Workshop, Longbi Industrial City, No.27 Dafa Road, Bantian Streets, Longgang District, Shenzhen City
Date of receipt	: Apr. 05, 2016
Date of Test	: Apr. 05~20, 2016

1.2. Auxiliary Equipment Used during Test

N/A

1.3. Description of Test Facility

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

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, 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. Registration 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, February 22, 2013.

Test Location

All Emissions tests were performed at
Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC
Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong,
China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)
Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC Part 15, Paragraph 15.247.

2.1. Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107, 15.207	Conducted Emission Test	-	N/A
FCC Part 15, Paragraph 15.247(b)(1)	Maximum Output Power	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(2)	6dB Bandwidth	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	100kHz Bandwidth of Frequency Band Edges	PASS	Complies
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(1)	Frequency Separation	-	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Number of Hopping Frequency	-	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Time of Occupancy	-	N/A
FCC Part 15, Paragraph 15.247(c)	Peak Power Density	PASS	Complies

Note: The EUT is an on-board dc power supply, do not need to test conduction.

2.2. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1 Mbps lowest data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6 Mbps lowest data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT20): Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with MCS 0 Mbps lowest data rate (the worst case) are chosen for the final testing.

2.3. List of channels:

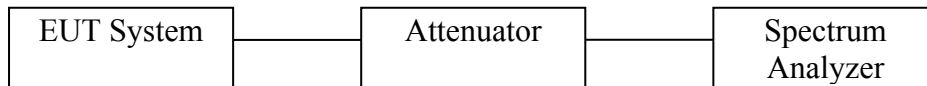
√ - available

X - tested

Number	Frequency(MHz)		802.11 b/g/n (HT20)	802.11 b/g/n (HT40)
1	2412	√	X	
2	2417	√		
3	2422	√		X
4	2427	√		
5	2432	√		
6	2437	√	X	X
7	2442	√		
8	2447	√		
9	2452	√		X
10	2457	√		
11	2462	√	X	

3. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

3.1 Test Setup



3.2 6dB Bandwidth

a. Limit

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

b. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
RBW = 100kHz, VBW $\geq 3 \times$ RBW = 300kHz,
Detector= Peak
Trace mode= Max hold.
Sweep- auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

20dB Bandwidth:

C63.10

Occupied Bandwidth (OBW=20dB Bandwidth)

1. Set RBW=1%~5% OBW
2. Set the VBW $\geq 3 \times$ RBW
3. Set the span range between 2 times and 5 times of the OBW
4. Sweep Time= Auto
Detector= Peak
Trace= Max hold
5. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst case (i.e. the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the -20dB levels with respect to the reference level.

c. Test Setup See 3.1

d. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2016	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Apr. 17, 2016	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2016	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2016	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2016	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2016	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8	Power Sensor	DAER	RPR3006W	15I00041SN046	Jun 30, 2015	1 Year
9	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun 30, 2015	1 Year
10	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun 30, 2015	1 Year
11	Signal Generator	Agilent	E4421B	MY41000743	Jun 30, 2015	1 Year
12	DC Power supply	IV	IV-8080	YQSB0096	Jun 30, 2015	1 Year
13	TEMP&HUMI PROGRAMMABLE CHAMBER	Bell Group	BE-THK-150M8	SE-0137	Mar 16, 2016	1 Year

e. Test Results

Pass.

f. Test Data

6dB Bandwidth

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	10.03	>500	Pass
Mid	2437	9.094		Pass
High	2462	9.536		Pass

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	15.33	>500	Pass
Mid	2437	15.12		Pass
High	2462	15.13		Pass

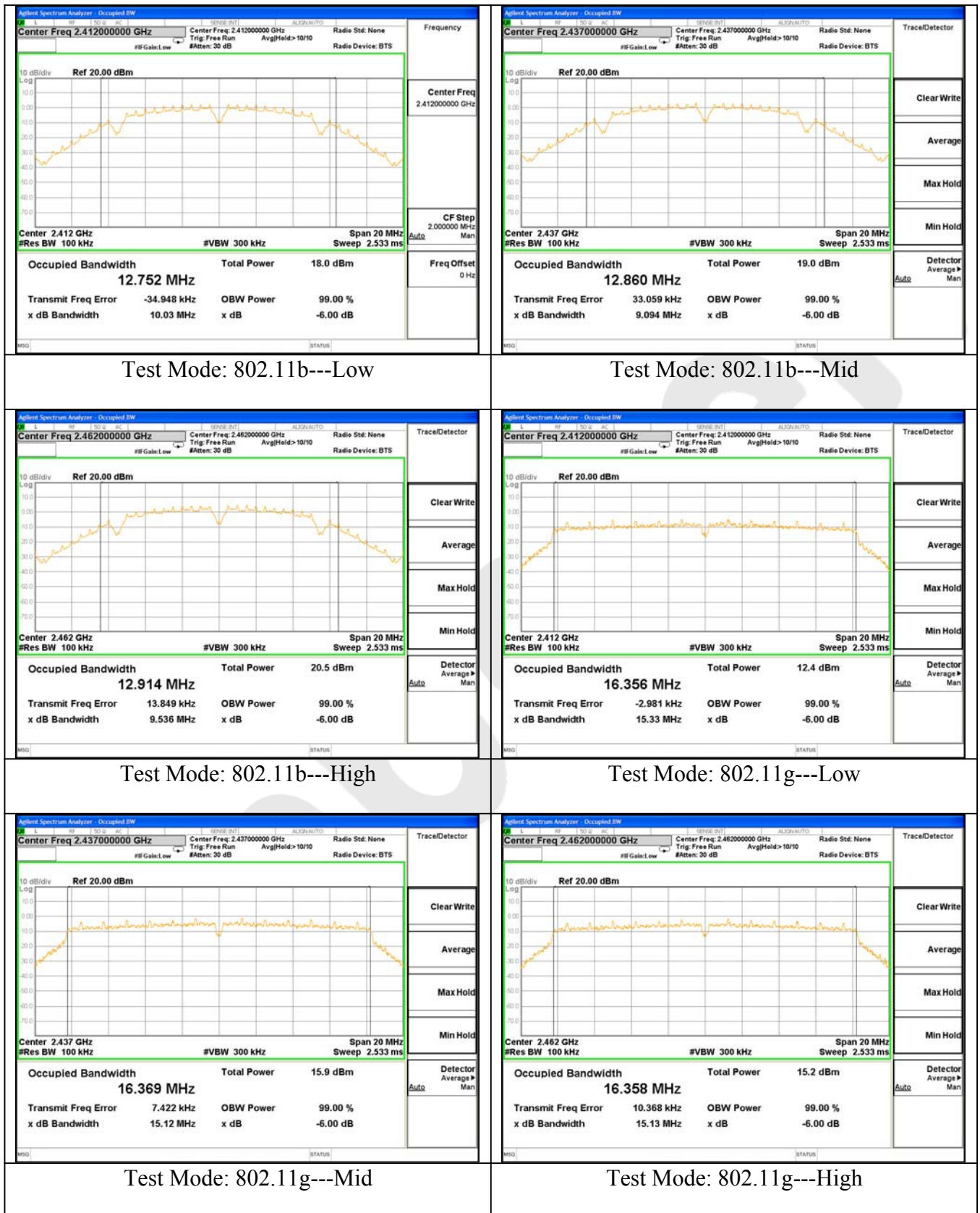
Test mode: IEEE 802.11n (HT20)

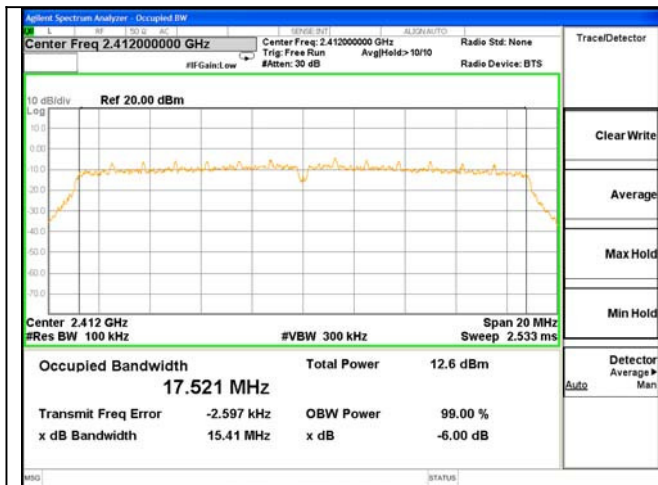
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2412	15.41	>500	Pass
Mid	2437	15.14		Pass
High	2462	15.13		Pass

Test mode: IEEE 802.11n (HT40)

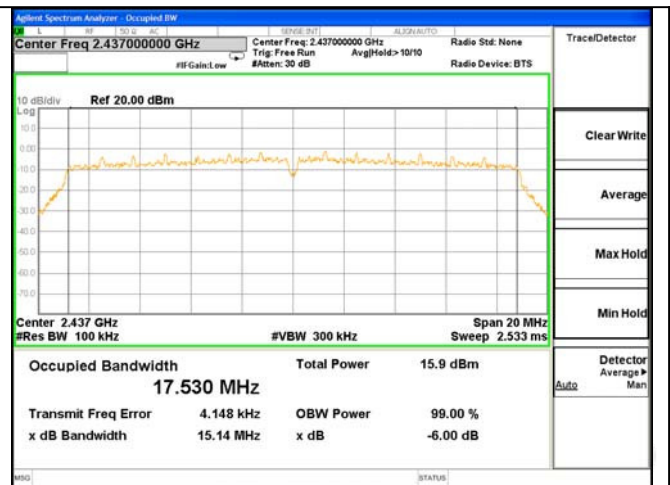
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Results
Low	2422	35.18	>500	Pass
Mid	2437	35.17		Pass
High	2452	35.16		Pass

Test Plots See the following page.

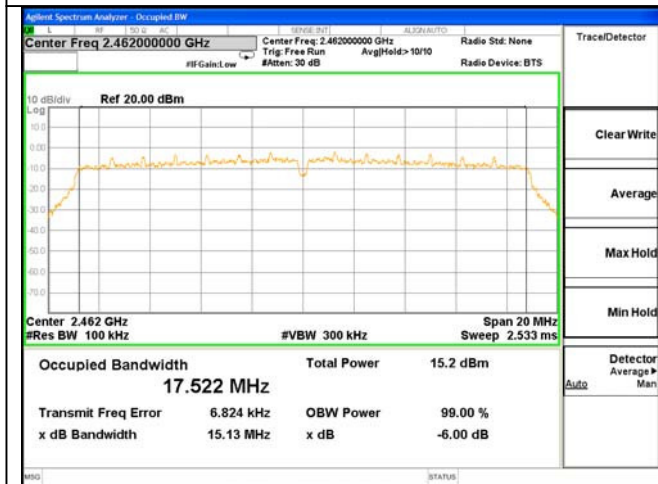




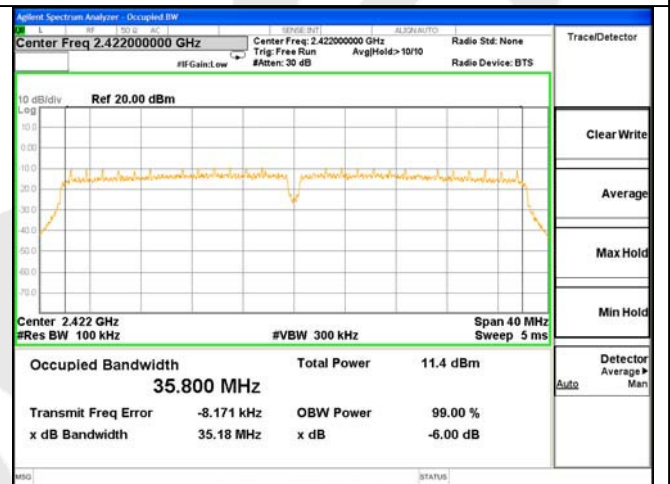
Test Mode: 802.11n20---Low



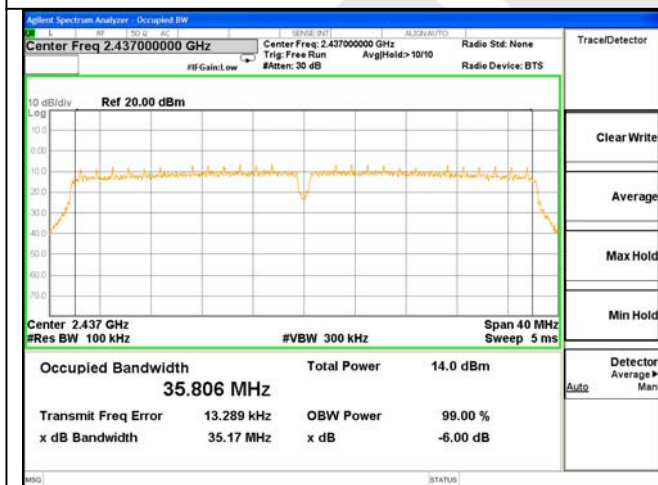
Test Mode: 802.11n20---Mid



Test Mode: 802.11n20---High



Test Mode: 802.11n40---Low



Test Mode: 802.11n40---Mid



Test Mode: 802.11n40---High

20dB Bandwidth

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	2412	14.73	Pass
Mid	2437	15.09	Pass
High	2462	15.13	Pass

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	2412	18.87	Pass
Mid	2437	18.89	Pass
High	2462	18.81	Pass

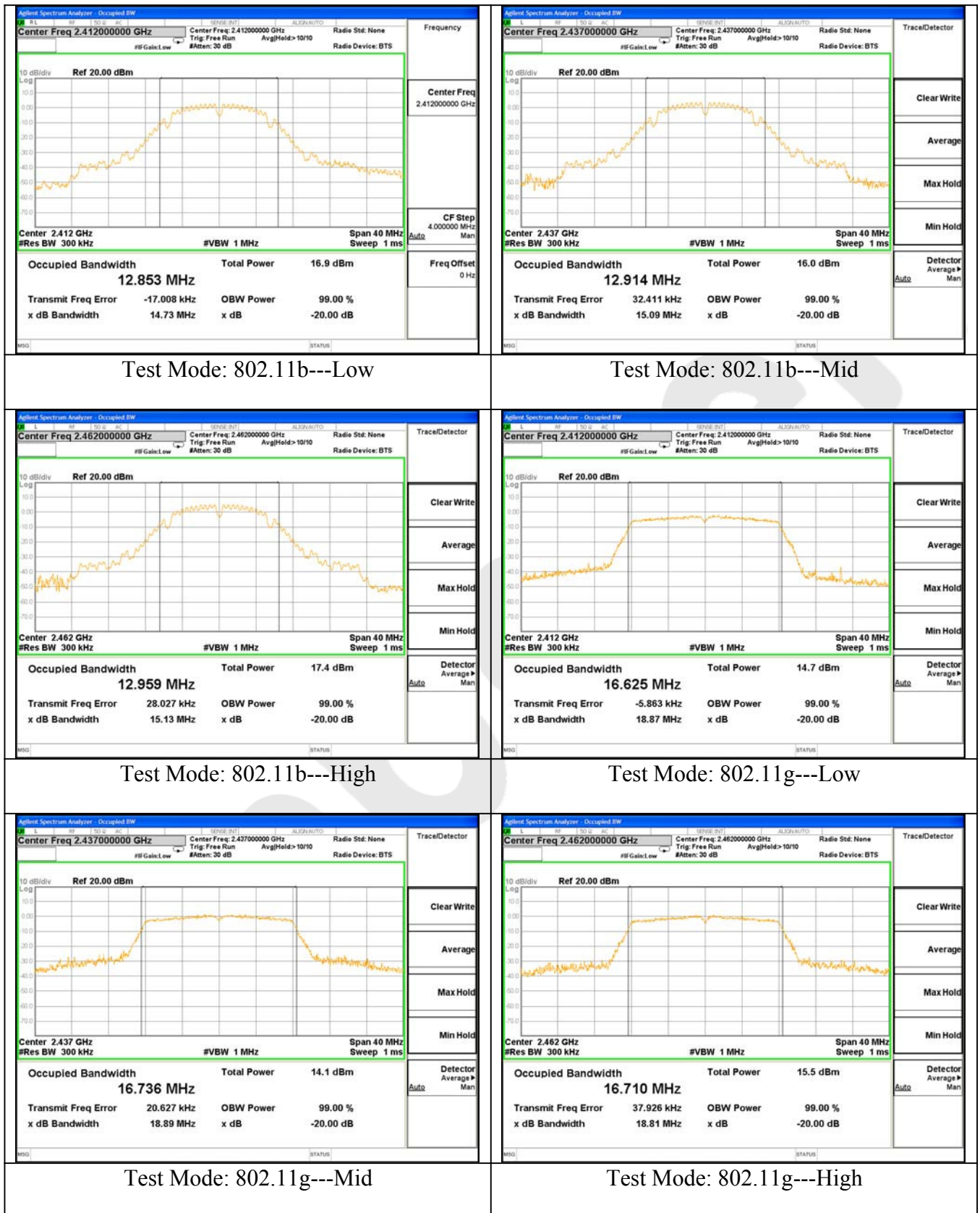
Test mode: IEEE 802.11n (HT20)

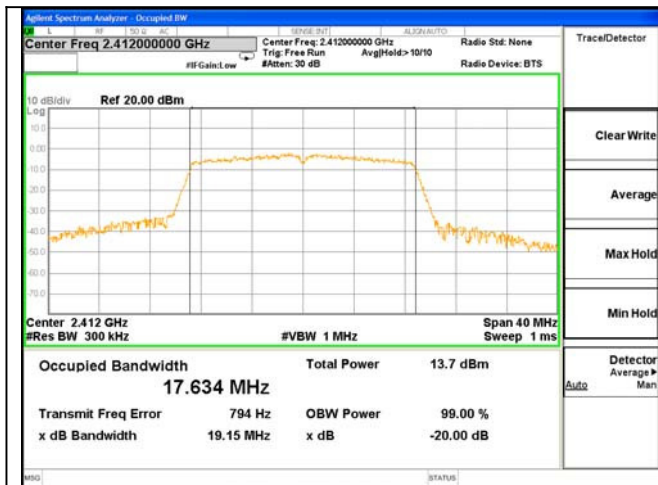
Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	2412	19.15	Pass
Mid	2437	19.33	Pass
High	2462	19.18	Pass

Test mode: IEEE 802.11n (HT40)

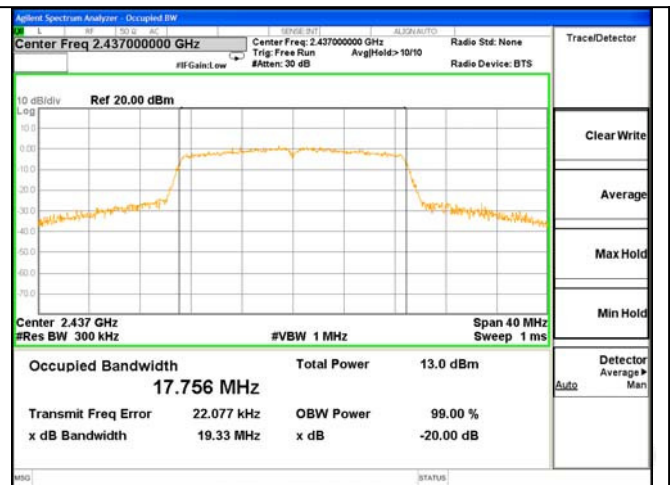
Channel	Frequency (MHz)	Bandwidth (MHz)	Results
Low	2422	39.24	Pass
Mid	2437	38.97	Pass
High	2452	39.25	Pass

Test Plots See the following page.

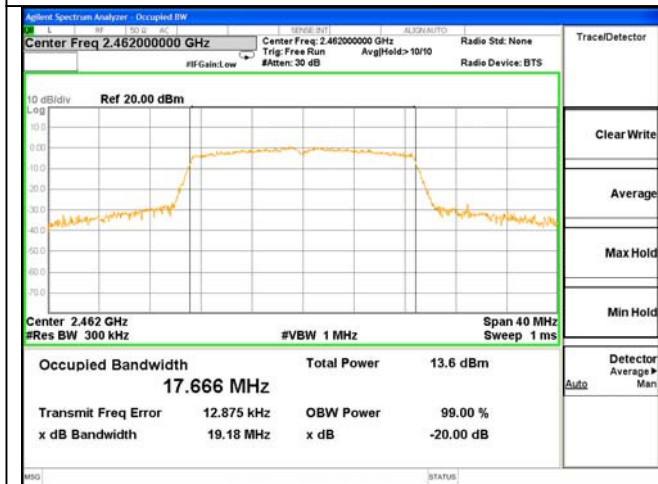




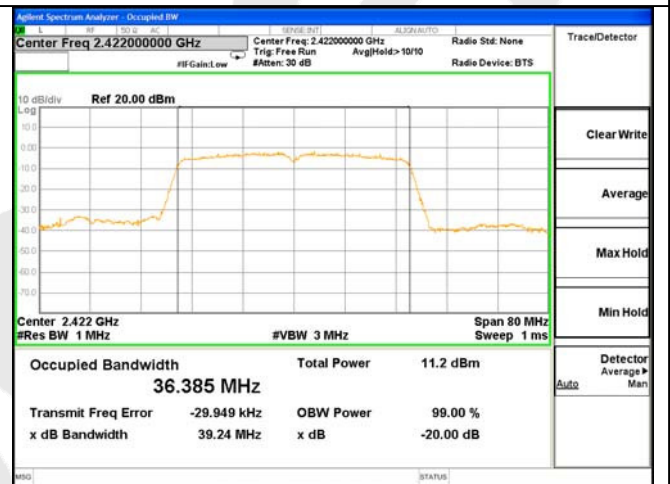
Test Mode: 802.11n20---Low



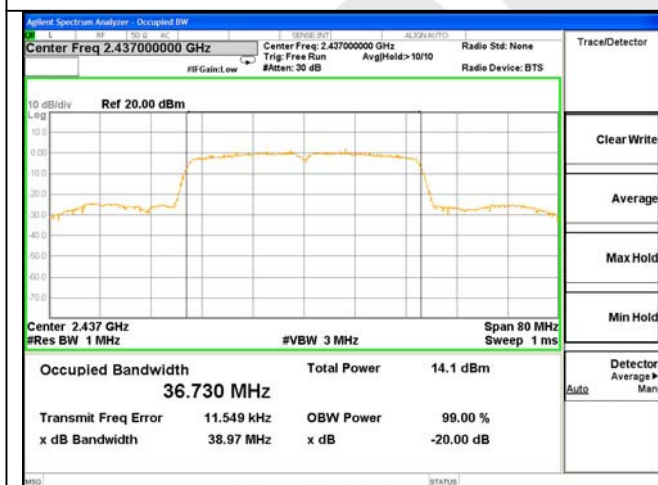
Test Mode: 802.11n20---Mid



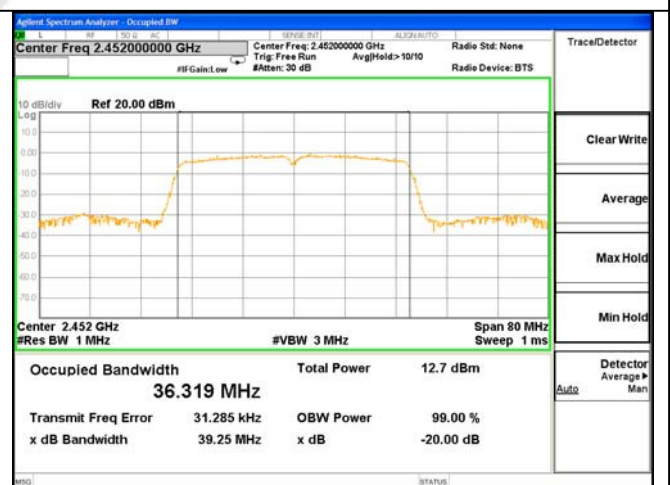
Test Mode: 802.11n20---High



Test Mode: 802.11n40---Low



Test Mode: 802.11n40---Mid



Test Mode: 802.11n40---High

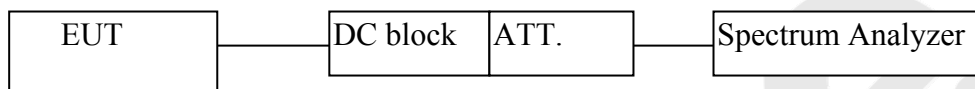
3.3. Maximum Output Power Test

a. Limit

The maximum output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt (30dBm).
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antenna of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. Configuration of Measurement



c. Data Rates

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1 Mbps data rate (worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6 Mbps data rate (the worst case) are chosen for the final testing.

IEEE802.11n (HT20: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6.5Mbps data rate (the worst case) are chosen for the final testing.

d. Test Procedure

This test was according the kDB 558074 D01 DTS Meas Guidance v03r03 9.1.1:

1. Set span to at least 1.5 times the OBW.
2. Set the RBW =1~5% of the OBW, not to exceed 1MHz.
3. Set VBW $\geq$ 3*RBW.
4. Detector = Average.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

e. Test Equipment

Same as the equipment listed in 3.2.

f. Test Results

Pass.

g. Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	15.90	30	1	Pass
Mid	2437	16.94			Pass
High	2462	15.42			Pass

Test mode: IEEE 802.11g

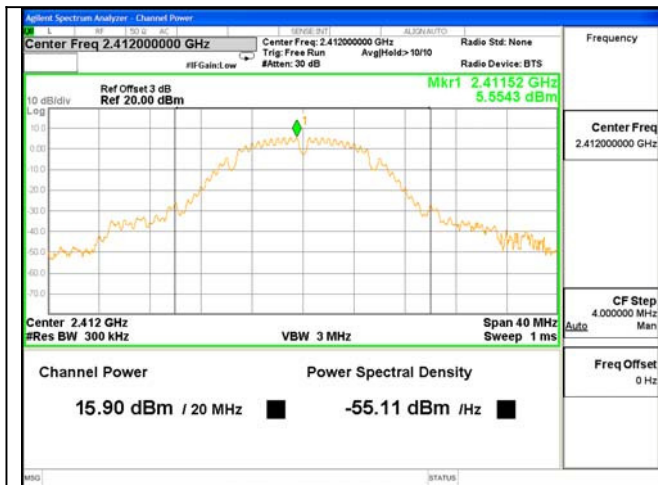
Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	14.10	30	1	Pass
Mid	2437	15.42			Pass
High	2462	15.21			Pass

Test mode: IEEE 802.11n (HT20)

Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2412	13.84	30	1	Pass
Mid	2437	14.21			Pass
High	2462	14.43			Pass

Test mode: IEEE 802.11n (HT20)

Channel	Frequency (MHz)	Maximum transmit power	Limit		Result
		(dBm)	(dBm)	(watts)	
Low	2422	11.10	30	1	Pass
Mid	2437	13.93			Pass
High	2452	12.69			Pass



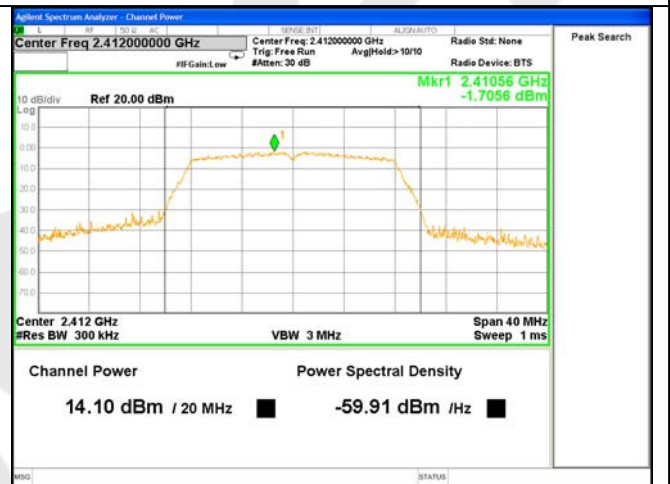
Test Mode: 802.11b---Low



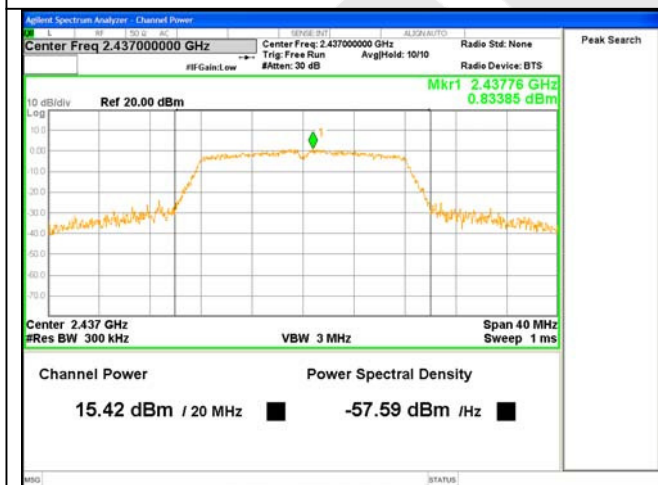
Test Mode: 802.11b---Mid



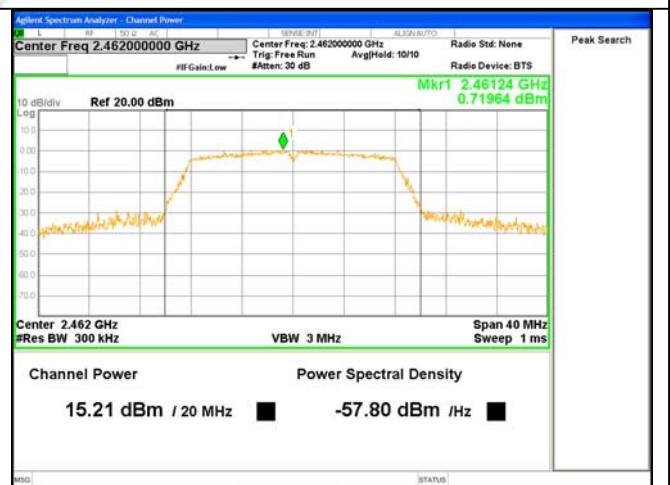
Test Mode: 802.11b---High



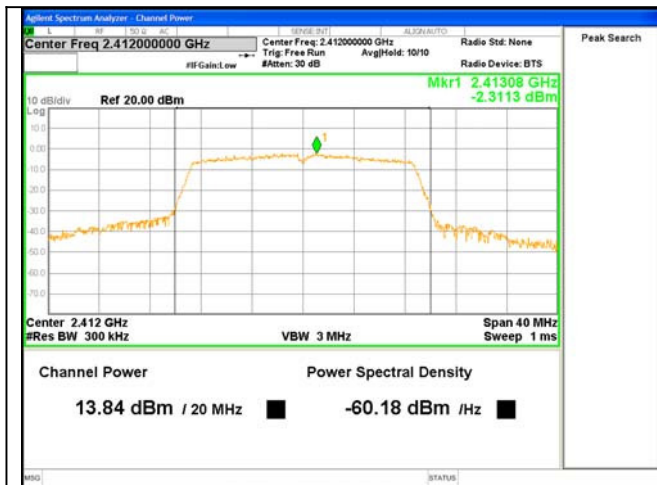
Test Mode: 802.11g---Low



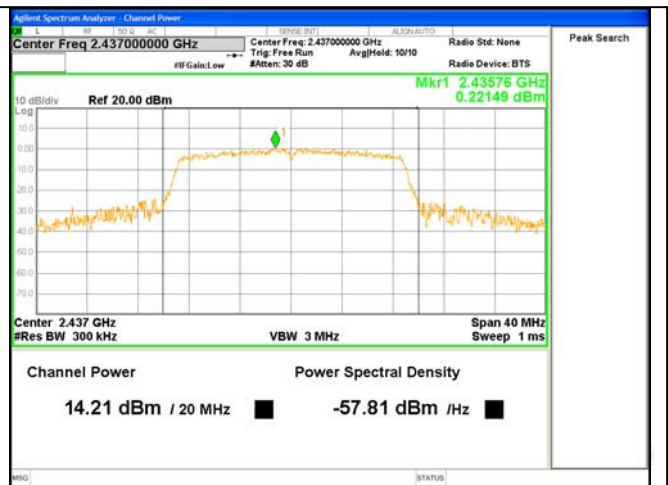
Test Mode: 802.11g---Mid



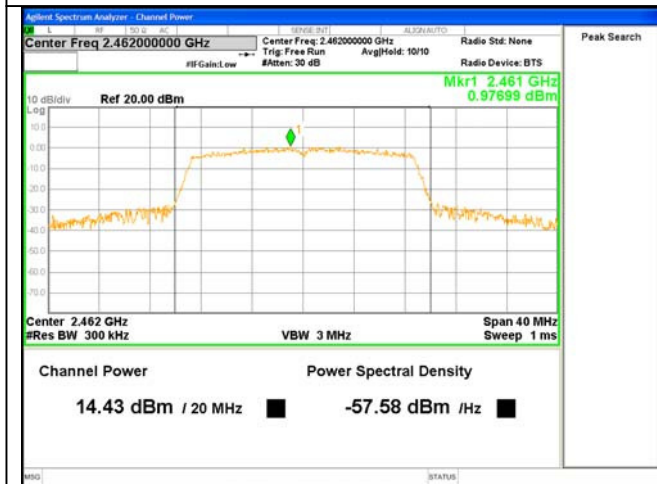
Test Mode: 802.11g---High



Test Mode: 802.11n20---Low



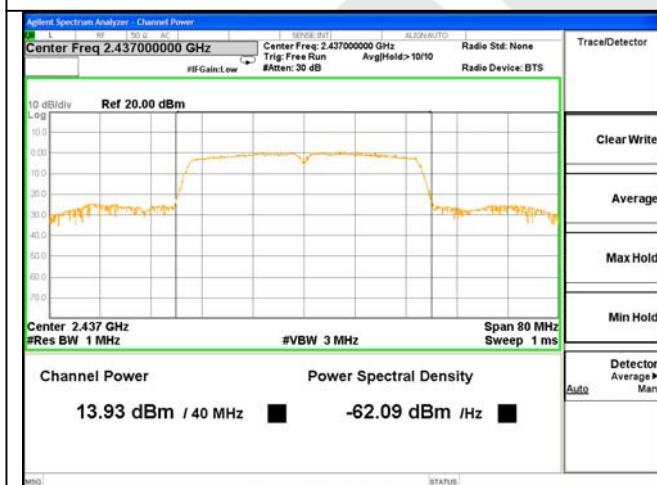
Test Mode: 802.11n20---Mid



Test Mode: 802.11n20---High



Test Mode: 802.11n40---Low



Test Mode: 802.11n40---Mid



Test Mode: 802.11n40---High

3.4. Band Edges Measurement

a. Limit

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. 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).

b. Test Procedure

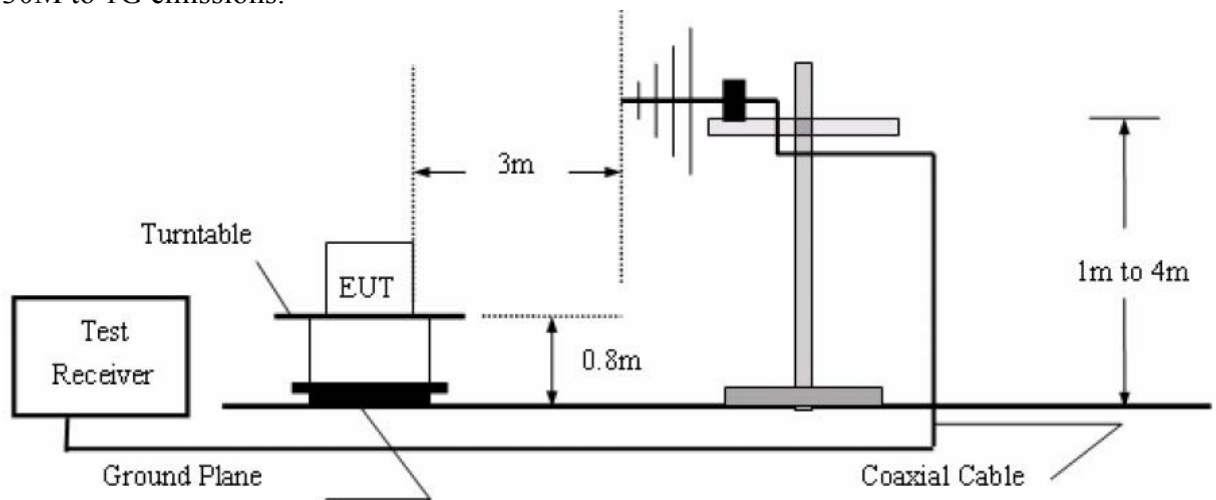
1. Conducted Method:

- 1) Set RBW=100KHz, VBW=300KHz
- 2) Detector=peak
- 3) Sweep time= auto
- 4) Trace mode=max hold.

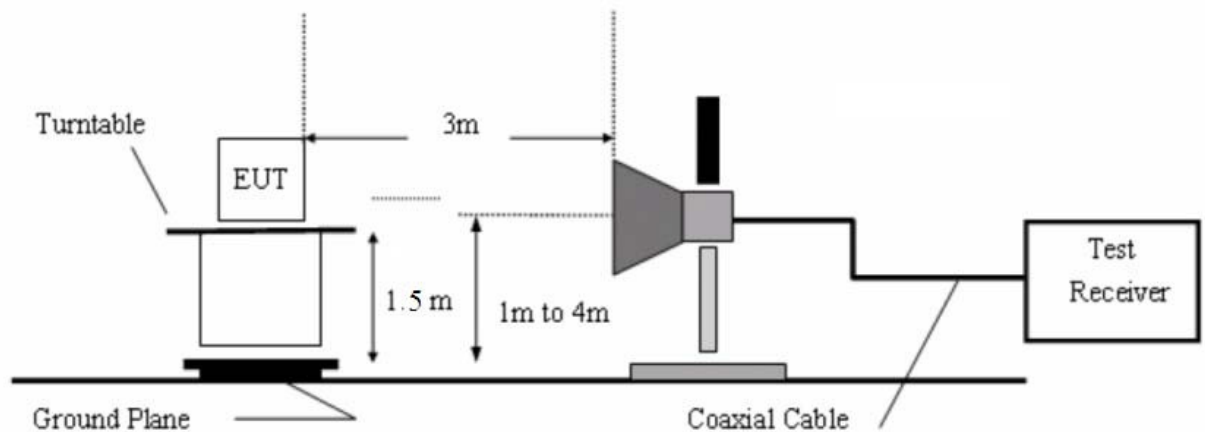
2. Radiated Method:

- 1) For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. The EUT is tested in 9*6*6 Chamber.
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. The EUT is tested in 9*6*6 Chamber.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Peak detector: RBW=1MHz, VBW=3MHz, SWT=AUTO
Average detector: RBW=1MHz, VBW=10Hz, SWT=AUTO
The EUT is tested in 9*6*6 Chamber.
- 5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

30M to 1G emissions:



1G to 40G emissions:



c. Test Equipment

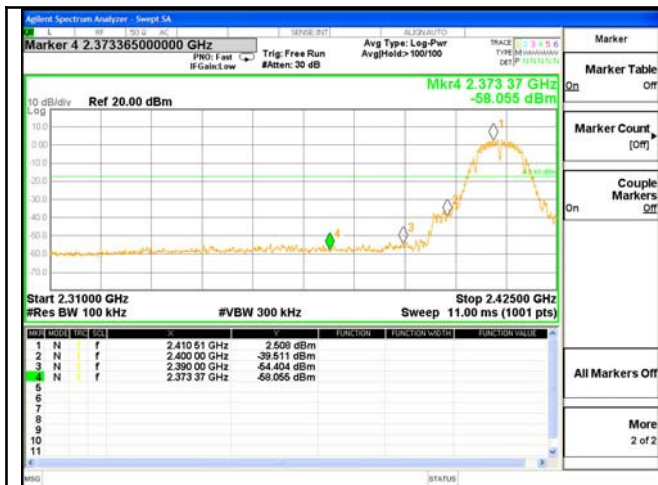
Same as the equipment listed in 3.2.

d. Test Results

Pass.

e. Test Plots

See the following page.



Test Mode: 802.11b---Low



Test Mode: 802.11b---High



Test Mode: 802.11g---Low



Test Mode: 802.11g---High



Test Mode: 802.11n20---Low



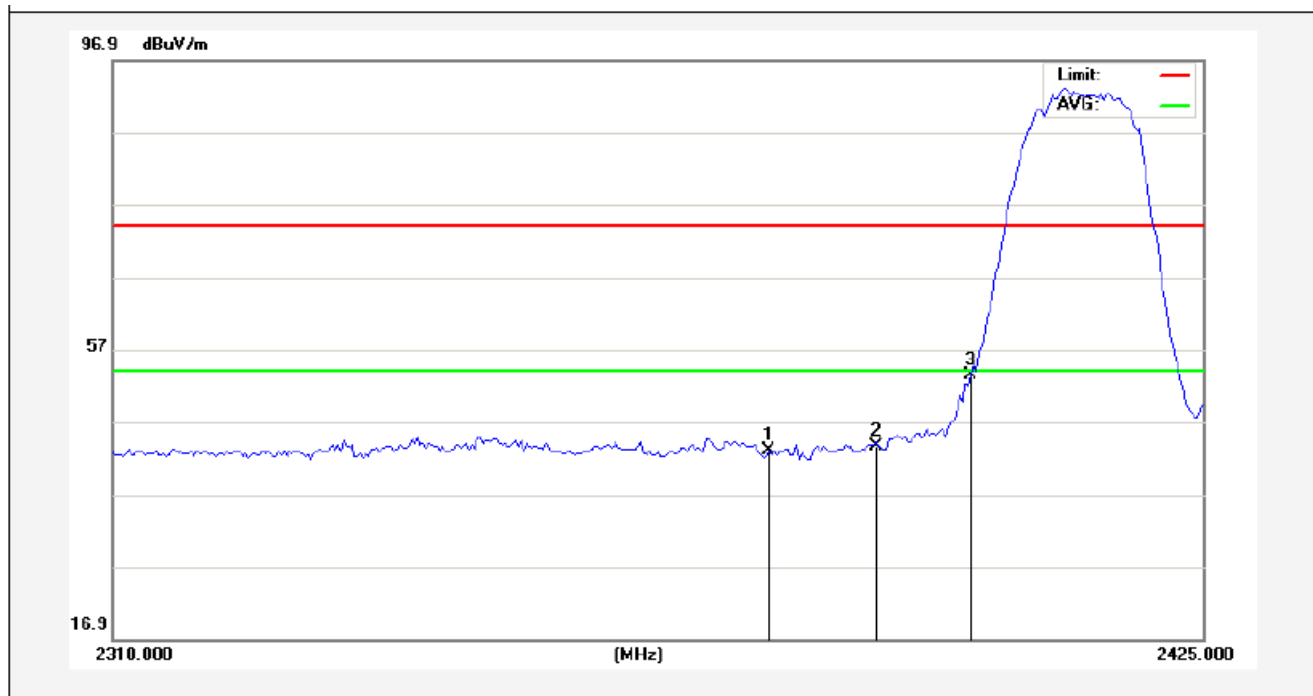
Test Mode: 802.11n20---High



Test Mode: 802.11b

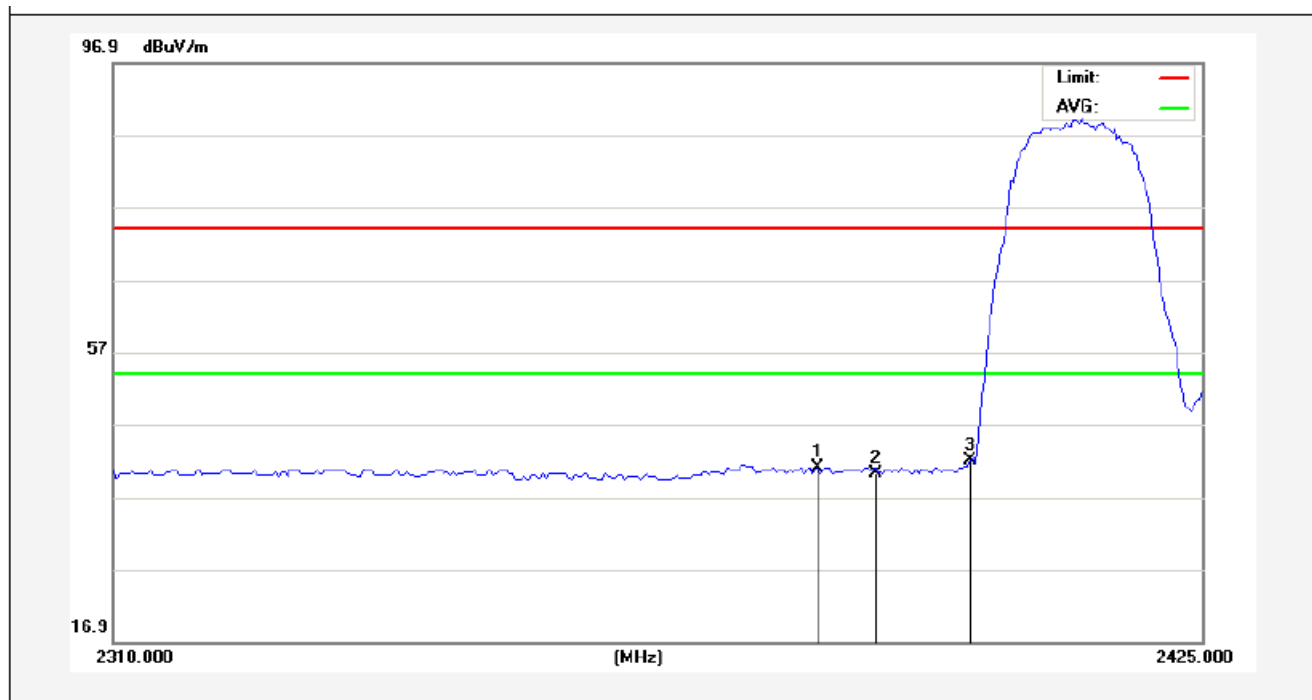
2412MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2378.713	45.47	-2.54	42.93	74.00	-31.07	peak			
2	2390.000	46.11	-2.51	43.60	74.00	-30.40	peak			
3	2400.000	55.81	-2.49	53.32	74.00	-20.68	peak			

Horizontal-AV:

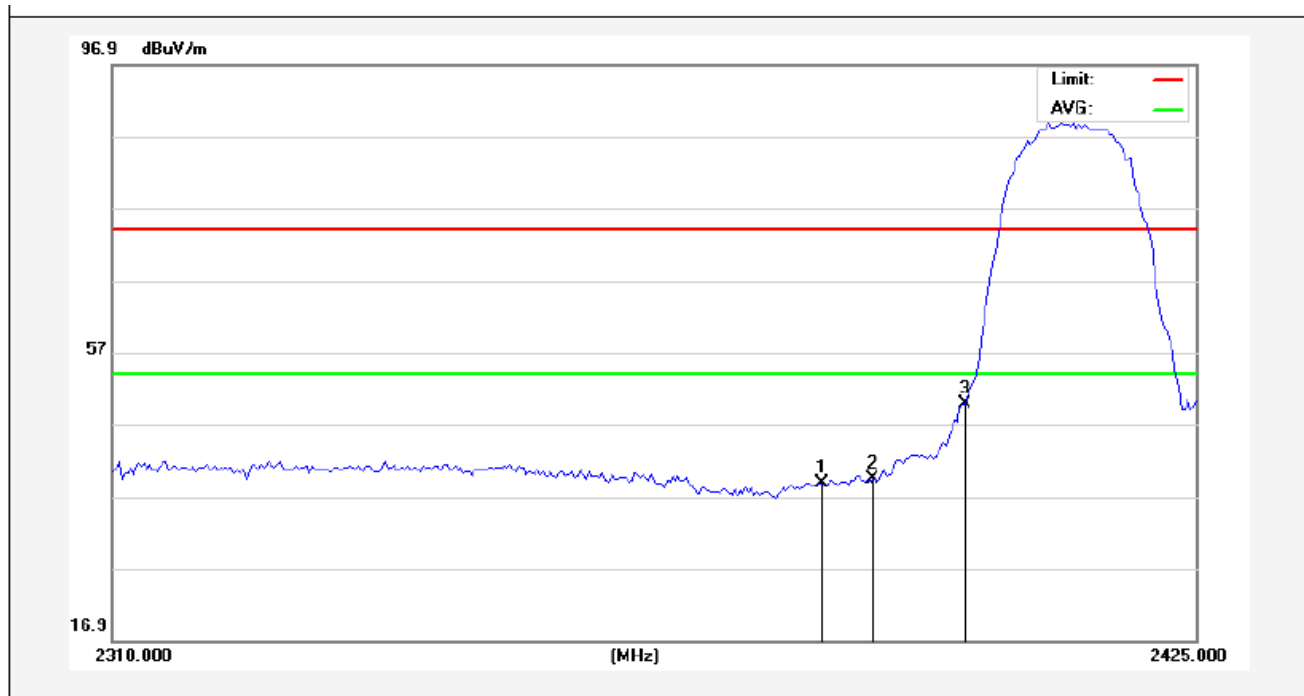


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2383.887	43.56	-2.53	41.03	54.00	-12.97	AVG			
2	2390.000	42.64	-2.51	40.13	54.00	-13.87	AVG			
3	2400.000	44.46	-2.49	41.97	54.00	-12.03	AVG			

Test Mode: 802.11b

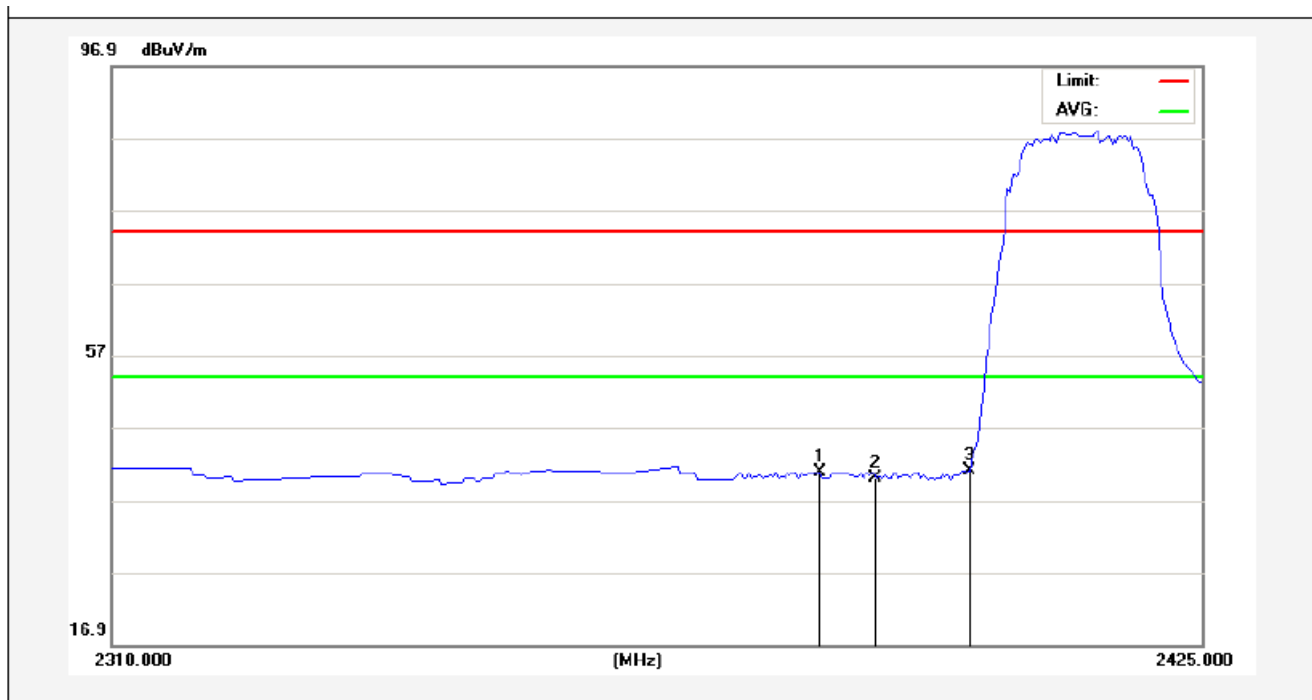
2412MHz

Vertical-PEAK:



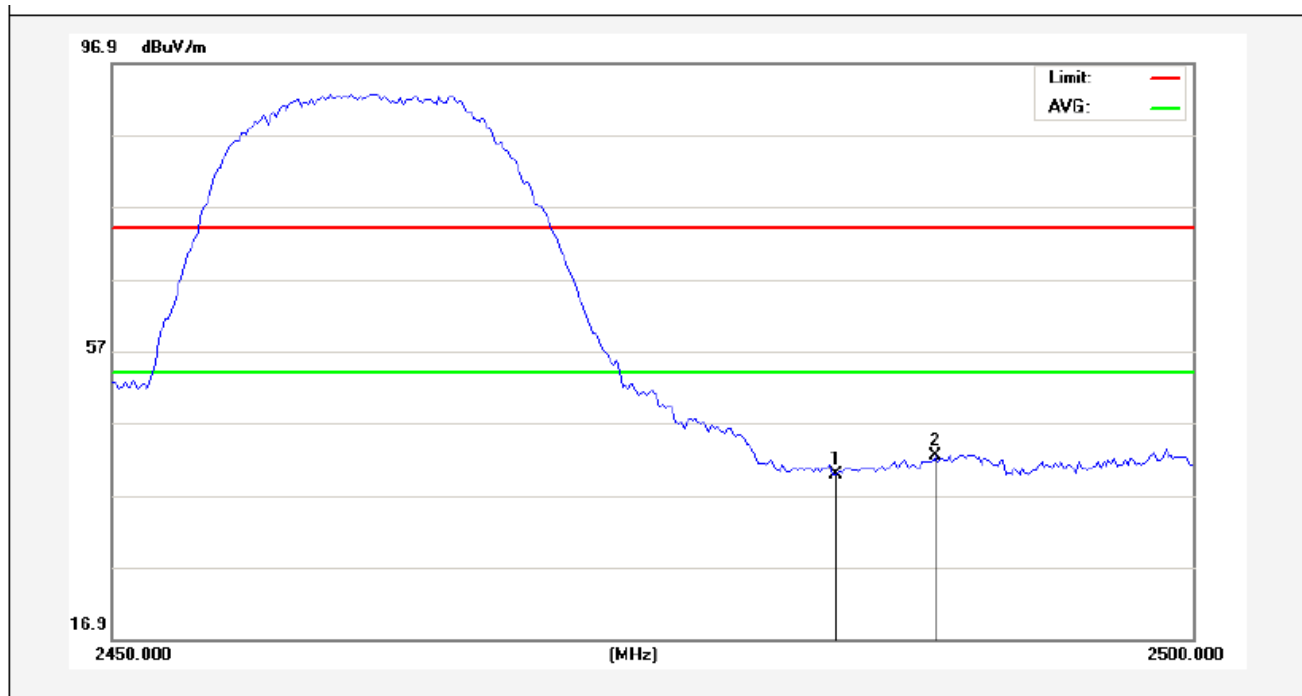
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2384.750	41.39	-2.53	38.86	74.00	-35.14	peak			
2	2390.000	41.88	-2.51	39.37	74.00	-34.63	peak			
3	2400.000	52.32	-2.49	49.83	74.00	-24.17	peak			

Vertical-AV:



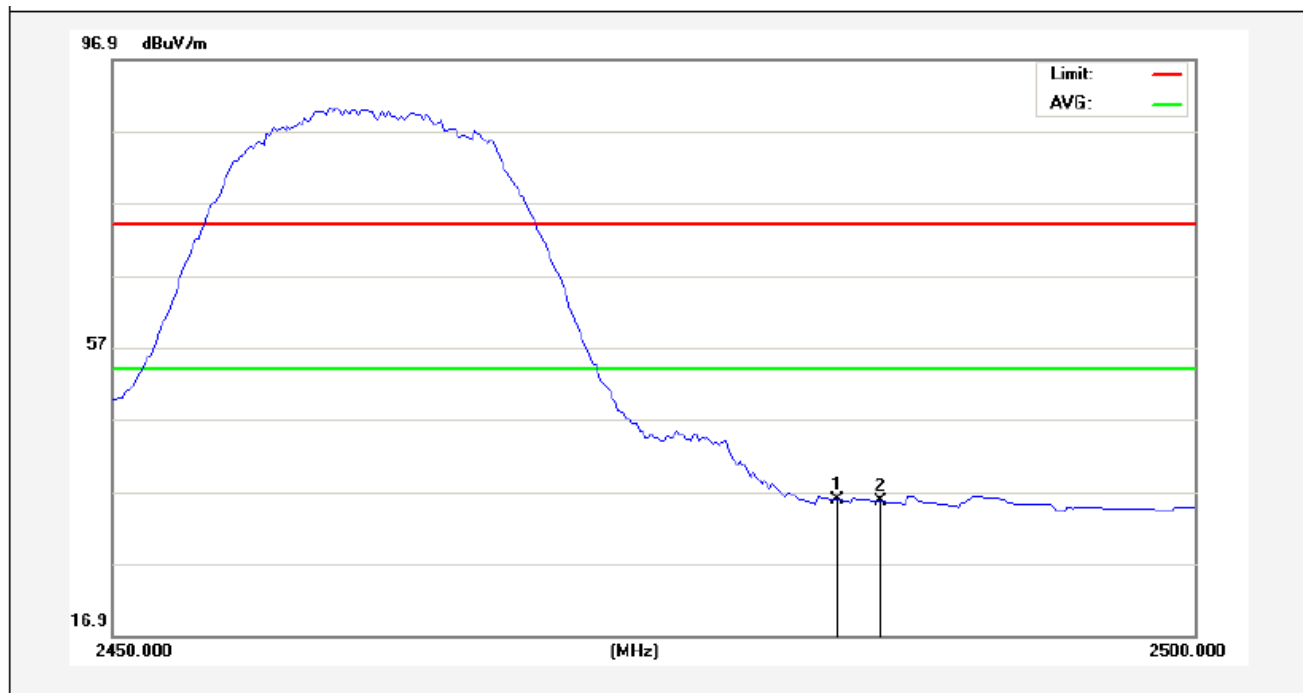
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2384.175	43.42	-2.53	40.89	54.00	-13.11	AVG			
2	2390.000	42.45	-2.51	39.94	54.00	-14.06	AVG			
3	2400.000	43.43	-2.49	40.94	54.00	-13.06	AVG			

Test Mode: 802.11b
2462MHz
Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	42.03	-2.31	39.72	74.00	-34.28	peak			
2	2488.125	44.74	-2.30	42.44	74.00	-31.56	peak			

Horizontal-AV:

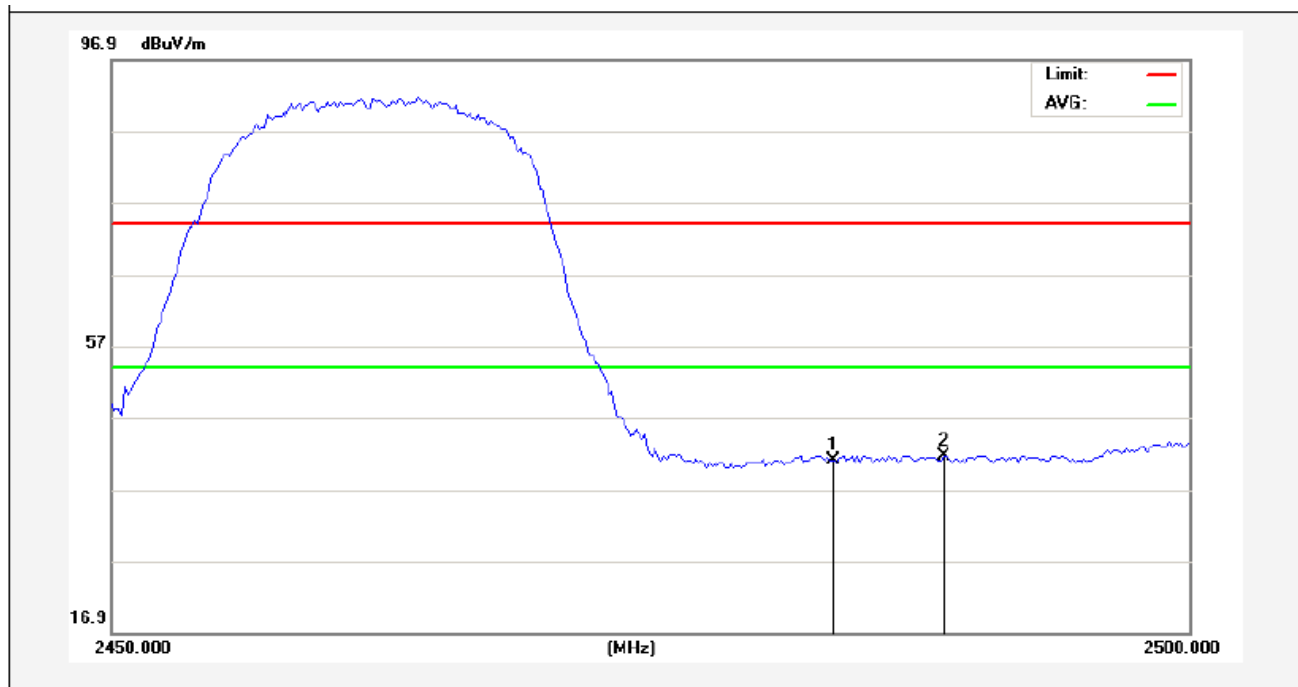


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	38.08	-2.31	35.77	54.00	-18.23	AVG			
2	2485.500	37.89	-2.30	35.59	54.00	-18.41	AVG			

Test Mode: 802.11b

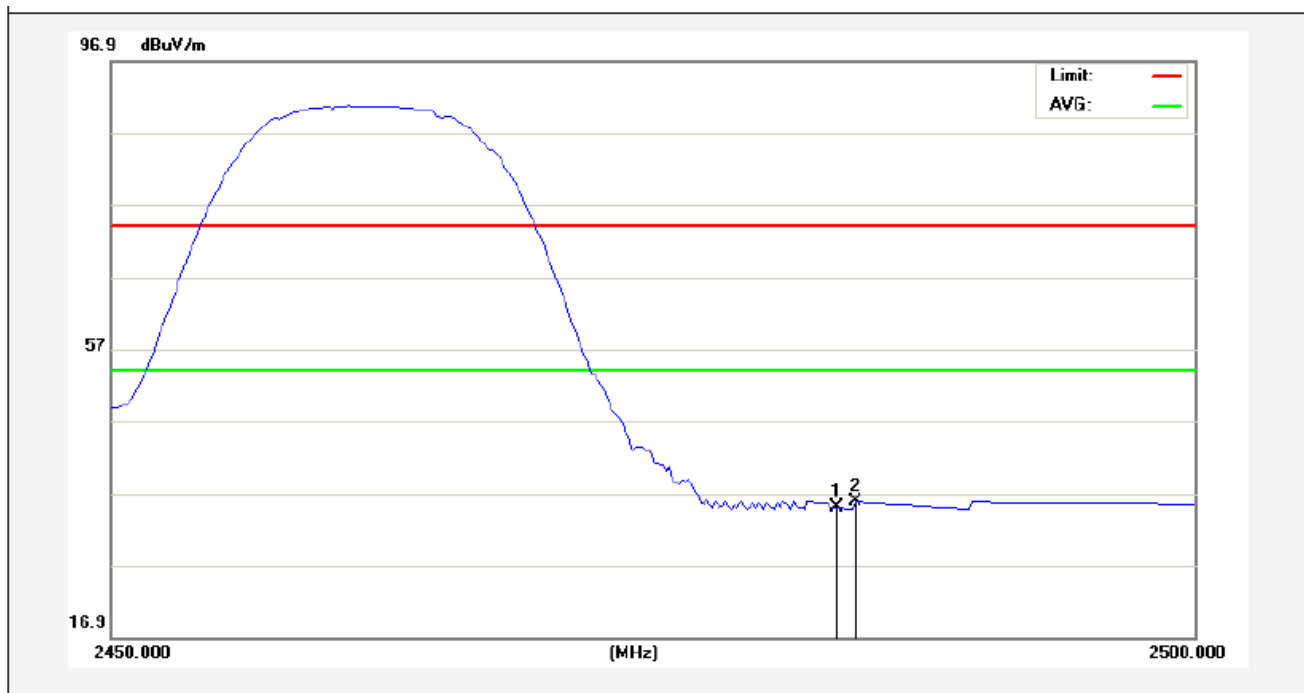
2462MHz

Vertical-PEAK:



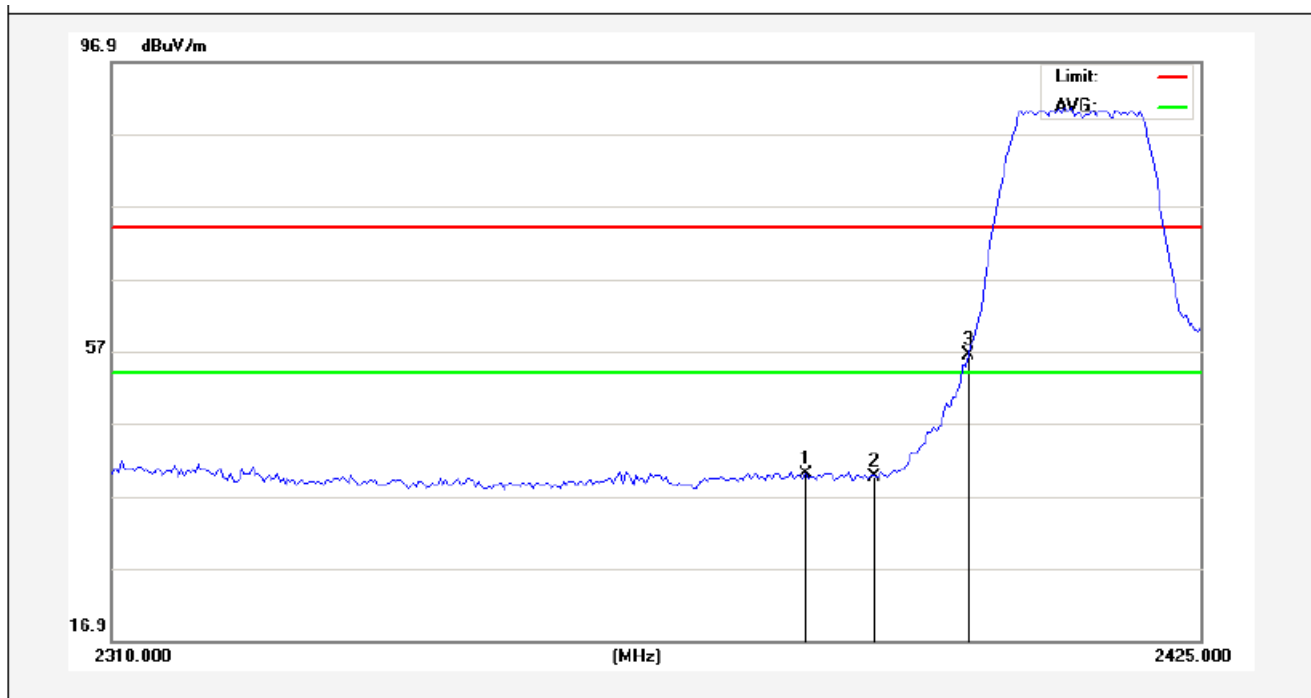
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	43.30	-2.31	40.99	74.00	-33.01	peak			
2	2488.625	43.95	-2.30	41.65	74.00	-32.35	peak			

Vertical-AV:



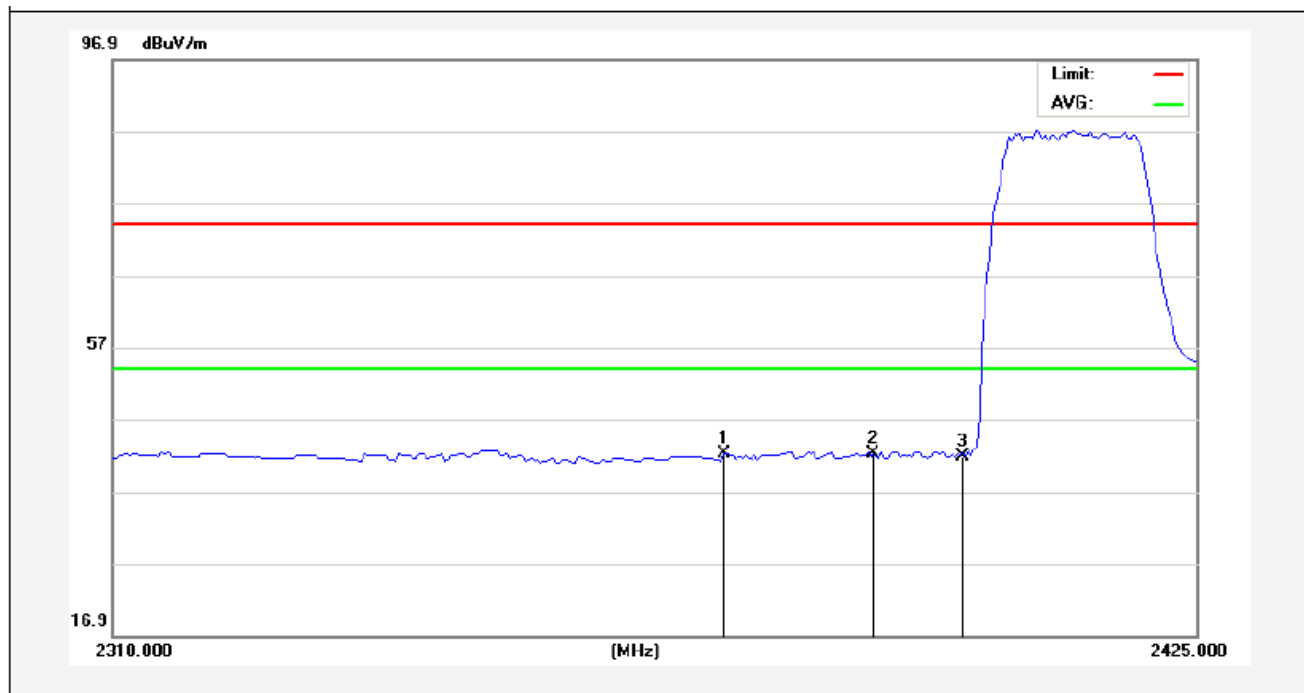
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	37.26	-2.31	34.95	54.00	-19.05	AVG			
2	2484.375	38.08	-2.30	35.78	54.00	-18.22	AVG			

Test Mode: 802.11g
2412MHz
Horizontal-PEAK:



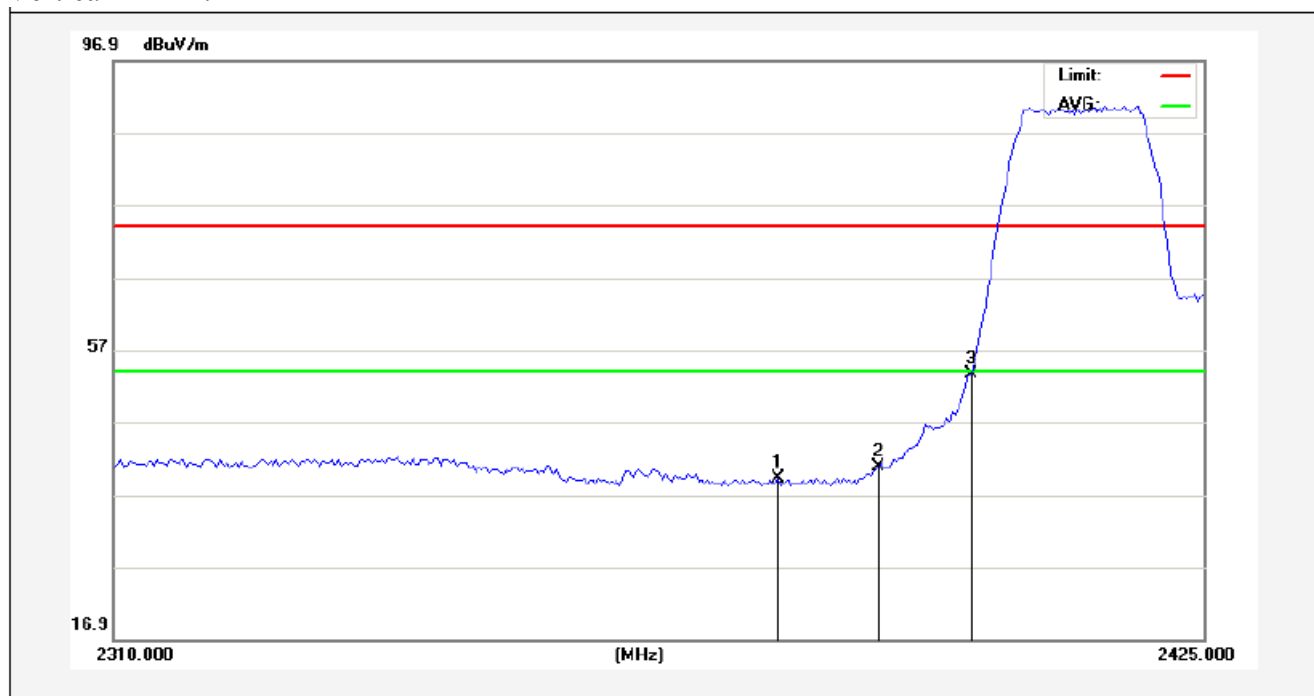
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2382.738	42.61	-2.53	40.08	74.00	-33.92	peak			
2	2390.000	42.05	-2.51	39.54	74.00	-34.46	peak			
3	2400.000	58.99	-2.49	56.50	74.00	-17.50	peak			

Horizontal-AV:



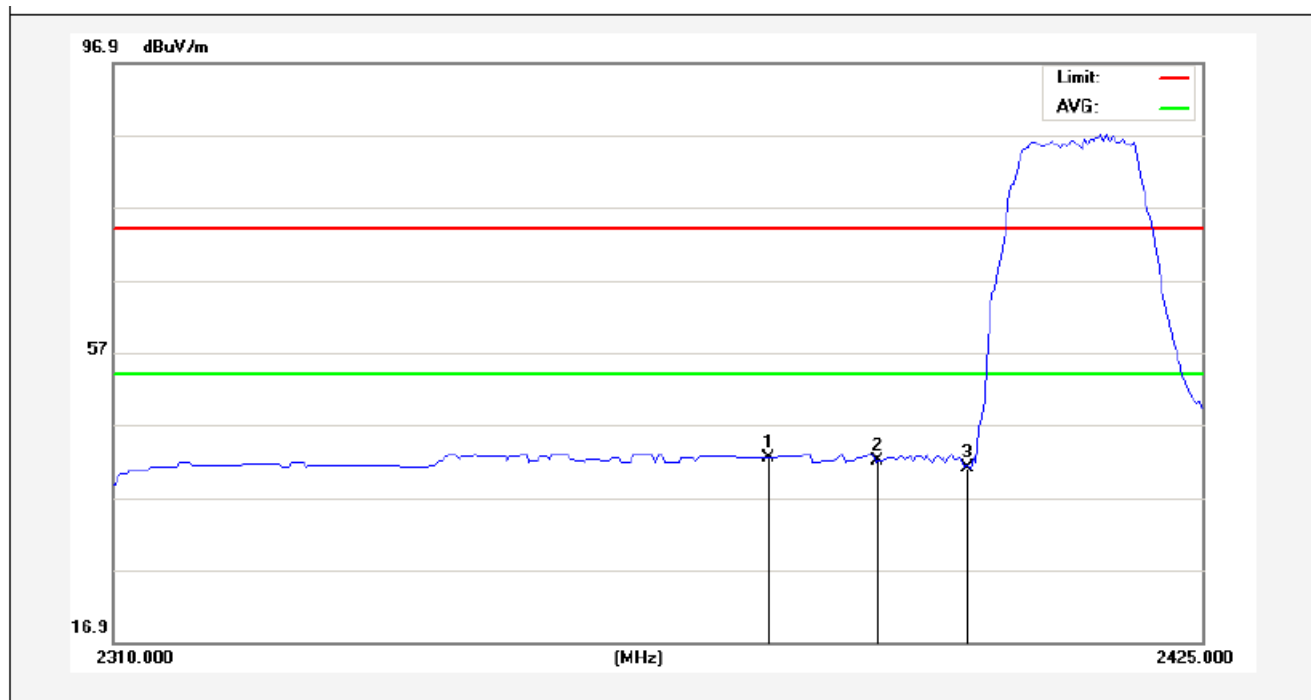
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2374.400	44.75	-2.55	42.20	54.00	-11.80	AVG			
2	2390.000	44.68	-2.51	42.17	54.00	-11.83	AVG			
3	2400.000	44.29	-2.49	41.80	54.00	-12.20	AVG			

Test Mode: 802.11g
2412MHz
Vertical-PEAK:



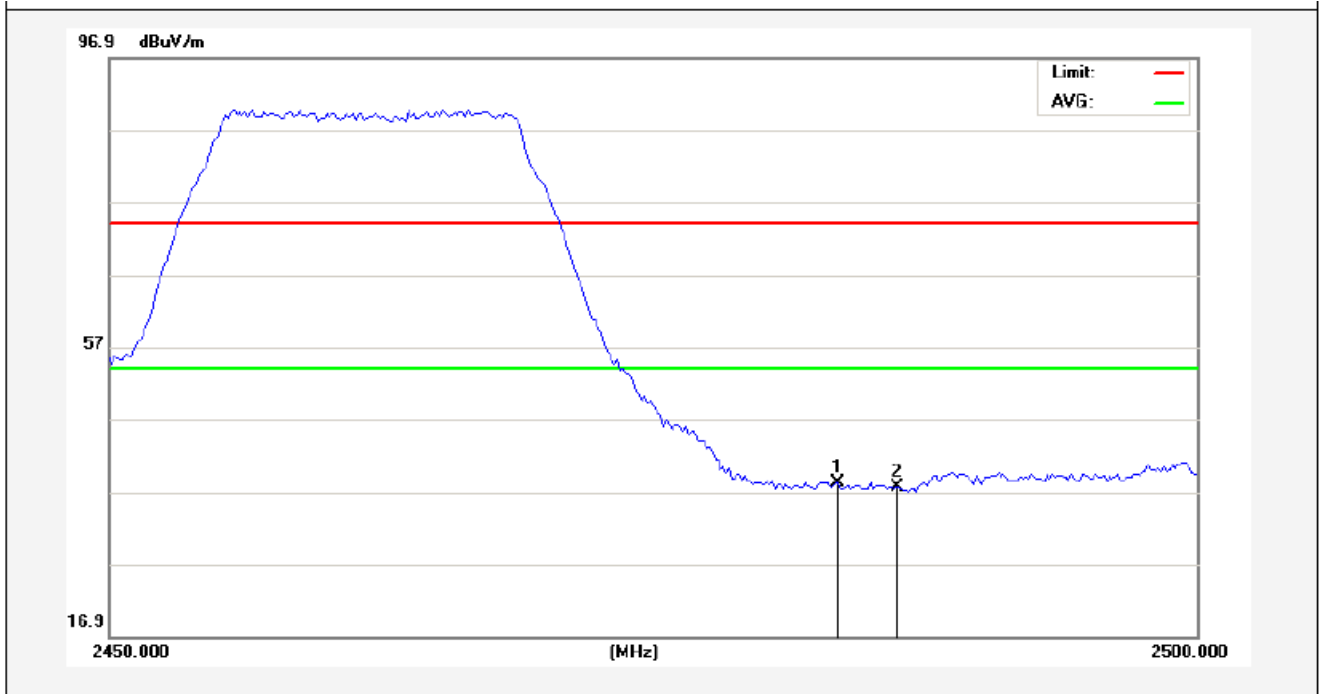
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2379.575	41.69	-2.54	39.15	74.00	-34.85	peak			
2	2390.000	43.36	-2.51	40.85	74.00	-33.15	peak			
3	2400.000	56.16	-2.49	53.67	74.00	-20.33	peak			

Vertical-AV:



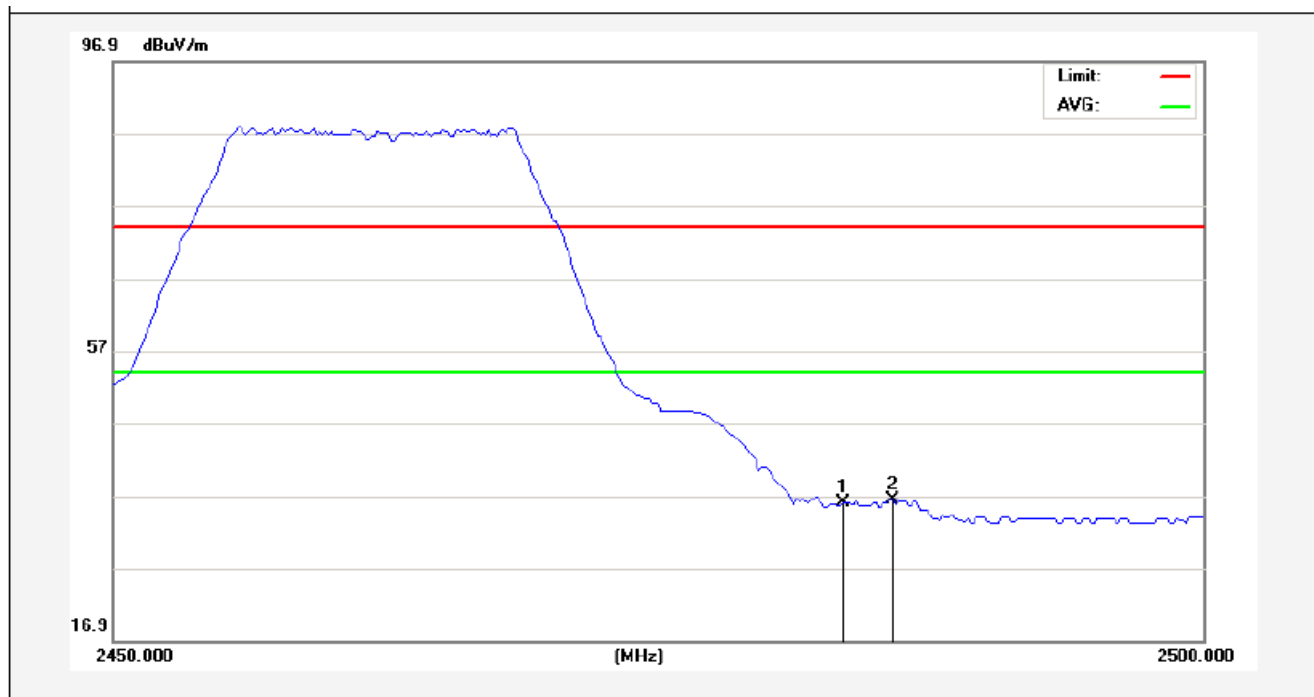
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2378.713	45.03	-2.54	42.49	54.00	-11.51	AVG			
2	2390.000	44.43	-2.51	41.92	54.00	-12.08	AVG			
3	2400.000	43.41	-2.49	40.92	54.00	-13.08	AVG			

Test Mode: 802.11g
2462MHz
Horizontal-PEAK:



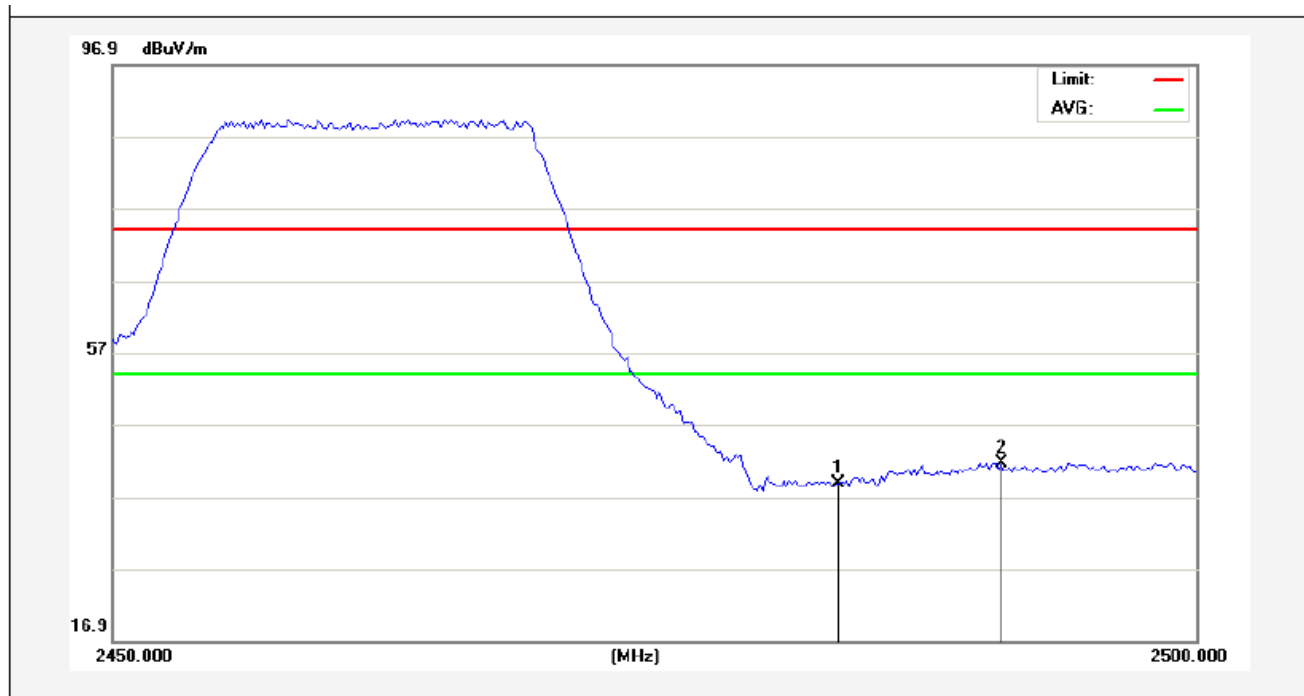
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	40.44	-2.31	38.13	74.00	-35.87	peak			
2	2486.250	39.98	-2.30	37.68	74.00	-36.32	peak			

Horizontal-AV:



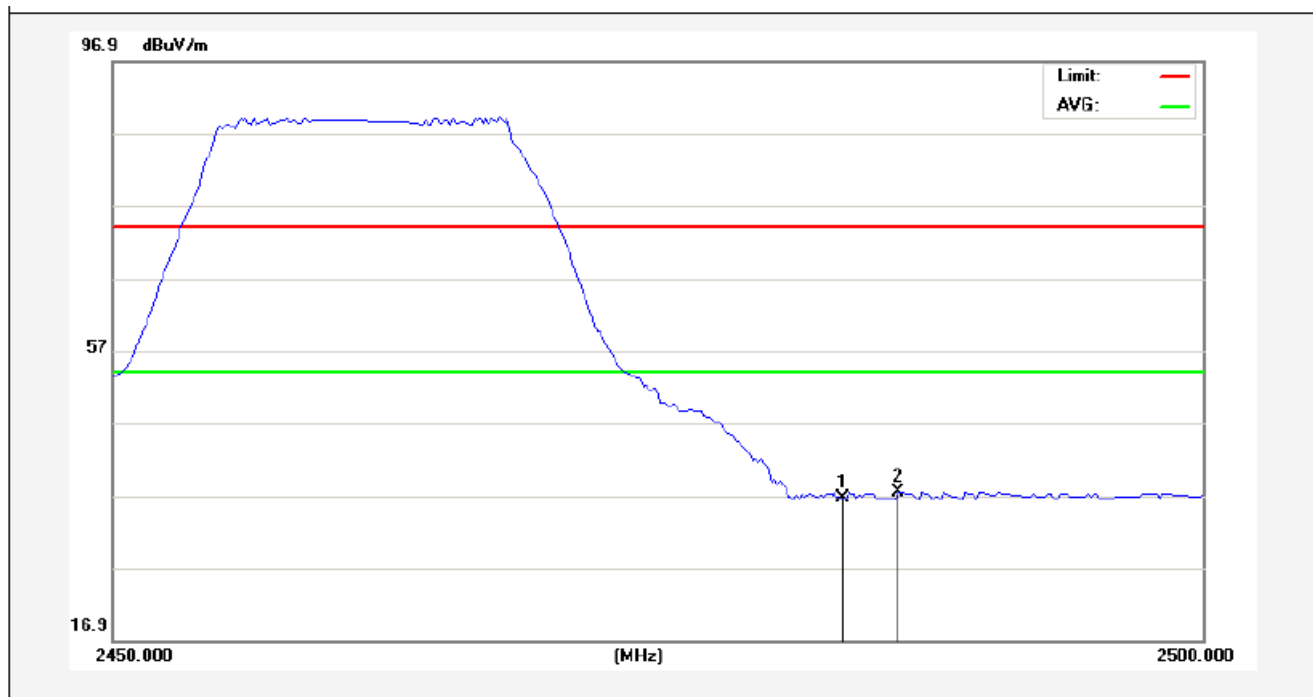
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	38.38	-2.31	36.07	54.00	-17.93	AVG			
2	2485.750	38.69	-2.30	36.39	54.00	-17.61	AVG			

Test Mode: 802.11g
2462MHz
Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	41.07	-2.31	38.76	74.00	-35.24	peak			
2	2491.000	43.98	-2.29	41.69	74.00	-32.31	peak			

Vertical-AV:

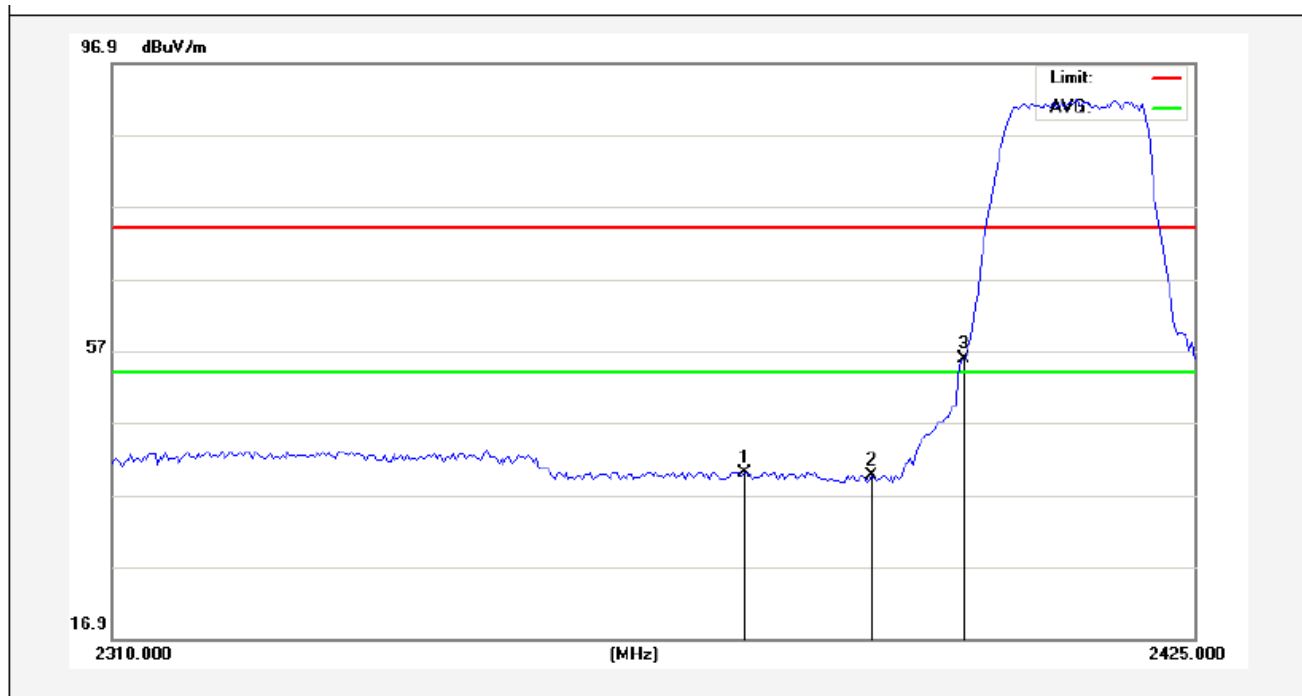


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	38.88	-2.31	36.57	54.00	-17.43	AVG			
2	2486.000	39.70	-2.30	37.40	54.00	-16.60	AVG			

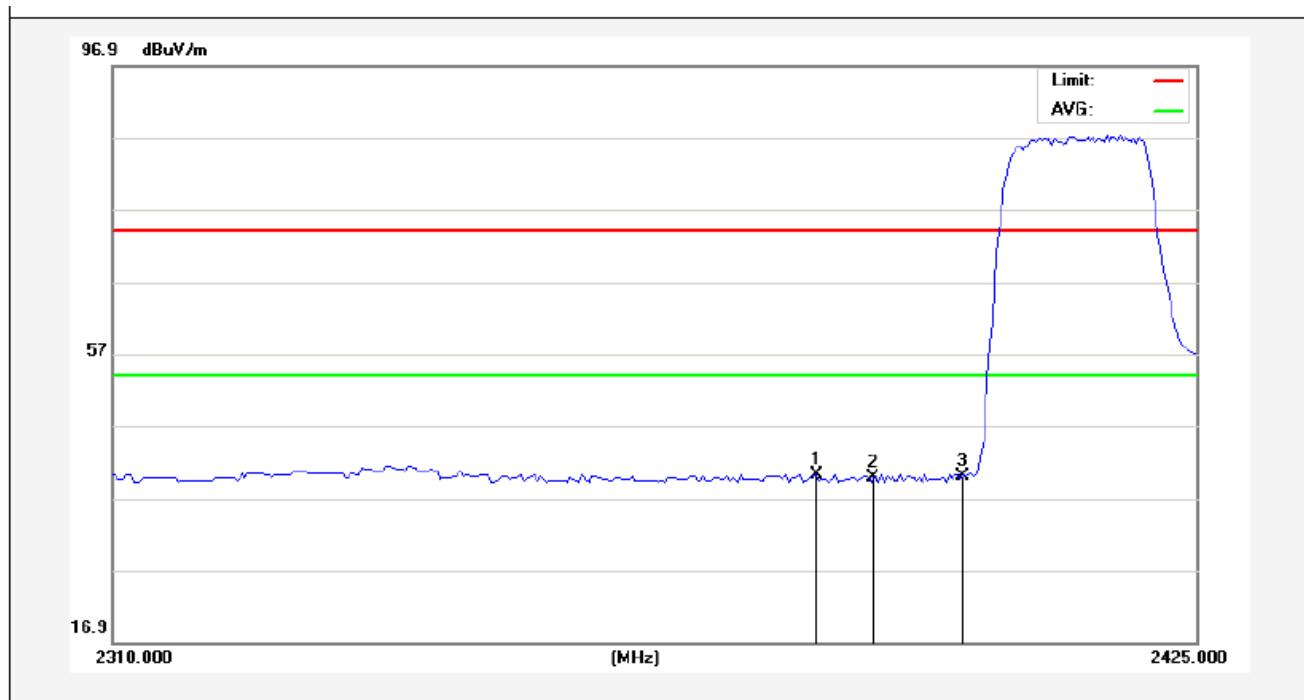
Test Mode: 802.11n (HT20)

2412MHz

Horizontal-PEAK:



Horizontal-AV:

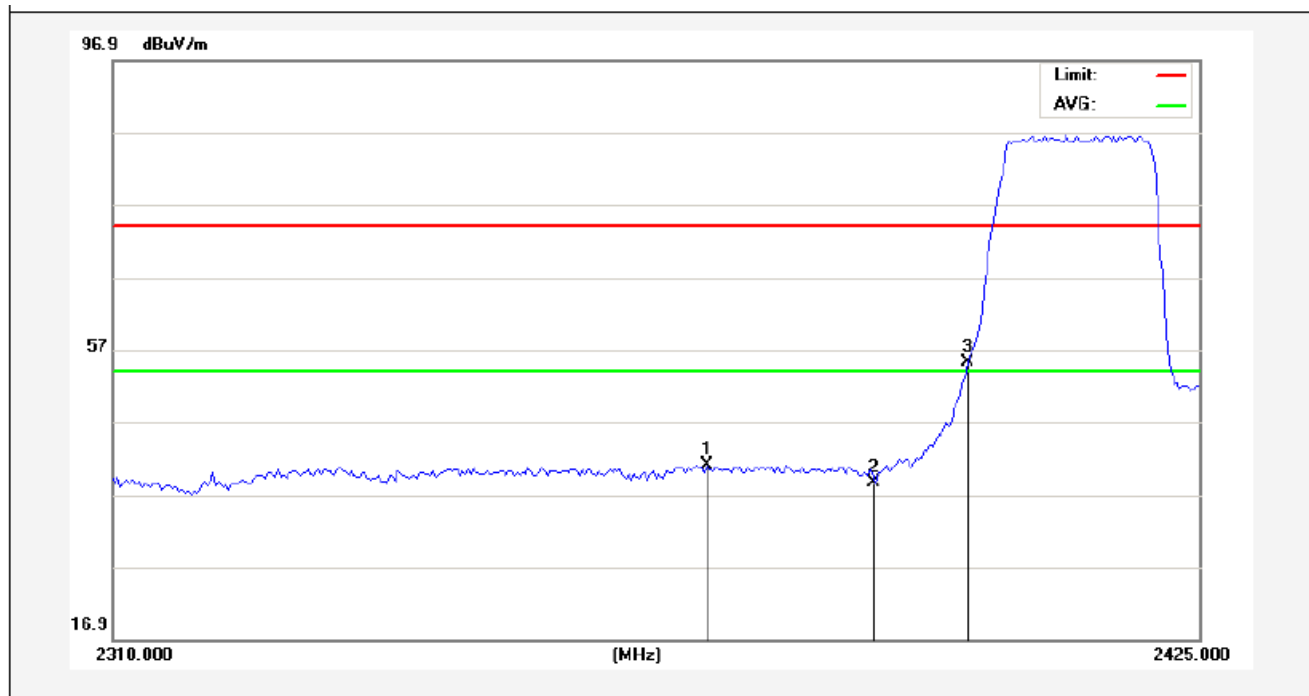


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2384.175	42.68	-2.53	40.15	54.00	-13.85	AVG			
2	2390.000	42.30	-2.51	39.79	54.00	-14.21	AVG			
3	2400.000	42.50	-2.49	40.01	54.00	-13.99	AVG			

Test Mode: 802.11n (HT20)

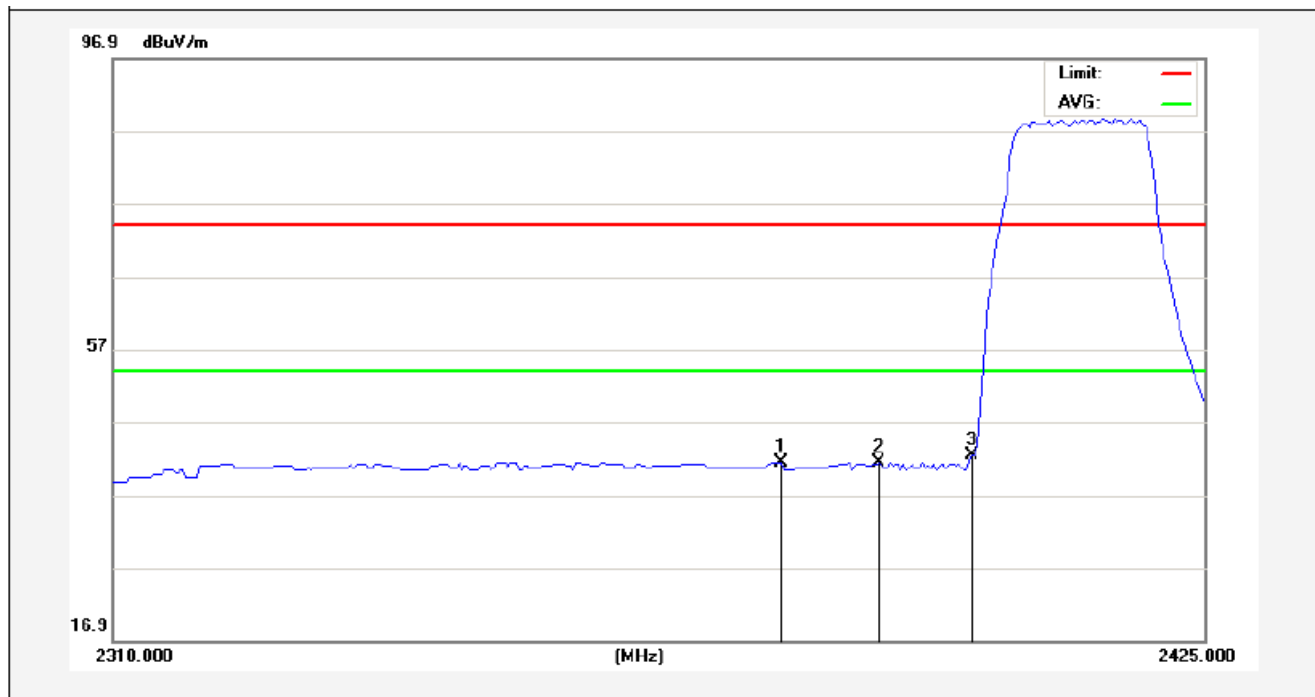
2412MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2372.387	43.55	-2.55	41.00	74.00	-33.00	peak			
2	2390.000	41.13	-2.51	38.62	74.00	-35.38	peak			
3	2400.000	57.75	-2.49	55.26	74.00	-18.74	peak			

Vertical-AV:

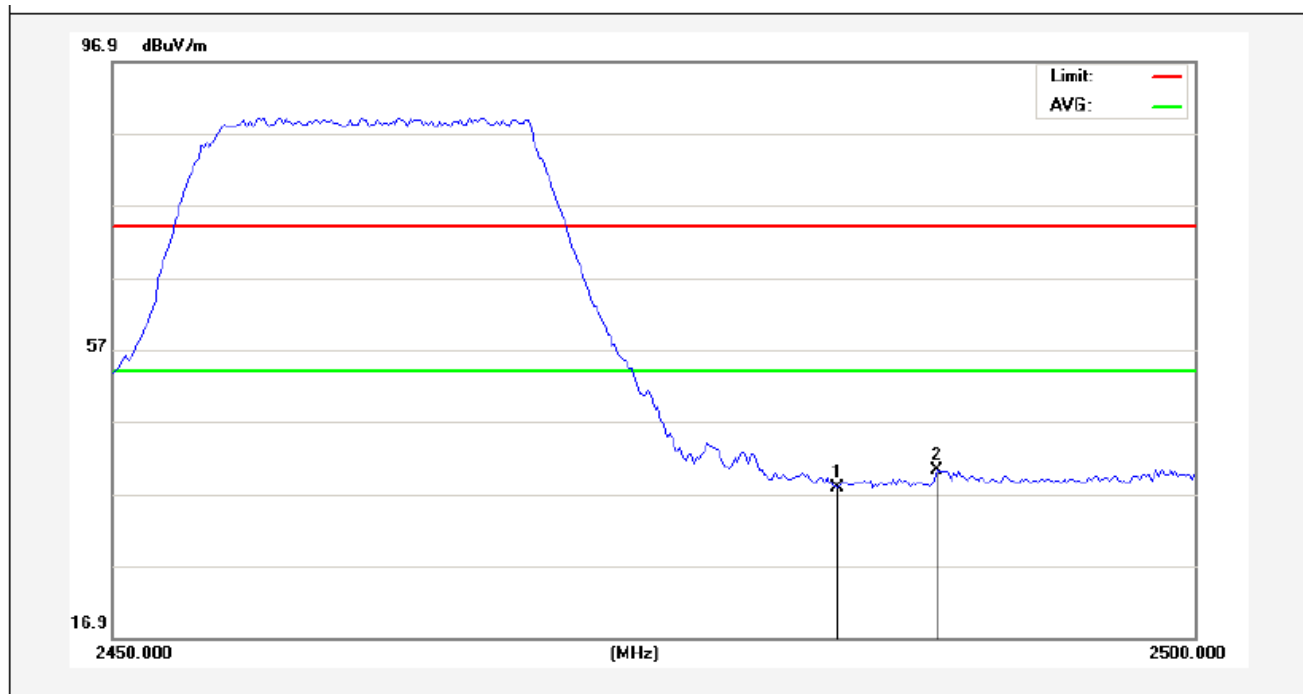


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2379.863	43.90	-2.54	41.36	54.00	-12.64	AVG			
2	2390.000	43.83	-2.51	41.32	54.00	-12.68	AVG			
3	2400.000	44.89	-2.49	42.40	54.00	-11.60	AVG			

Test Mode: 802.11n (HT20)

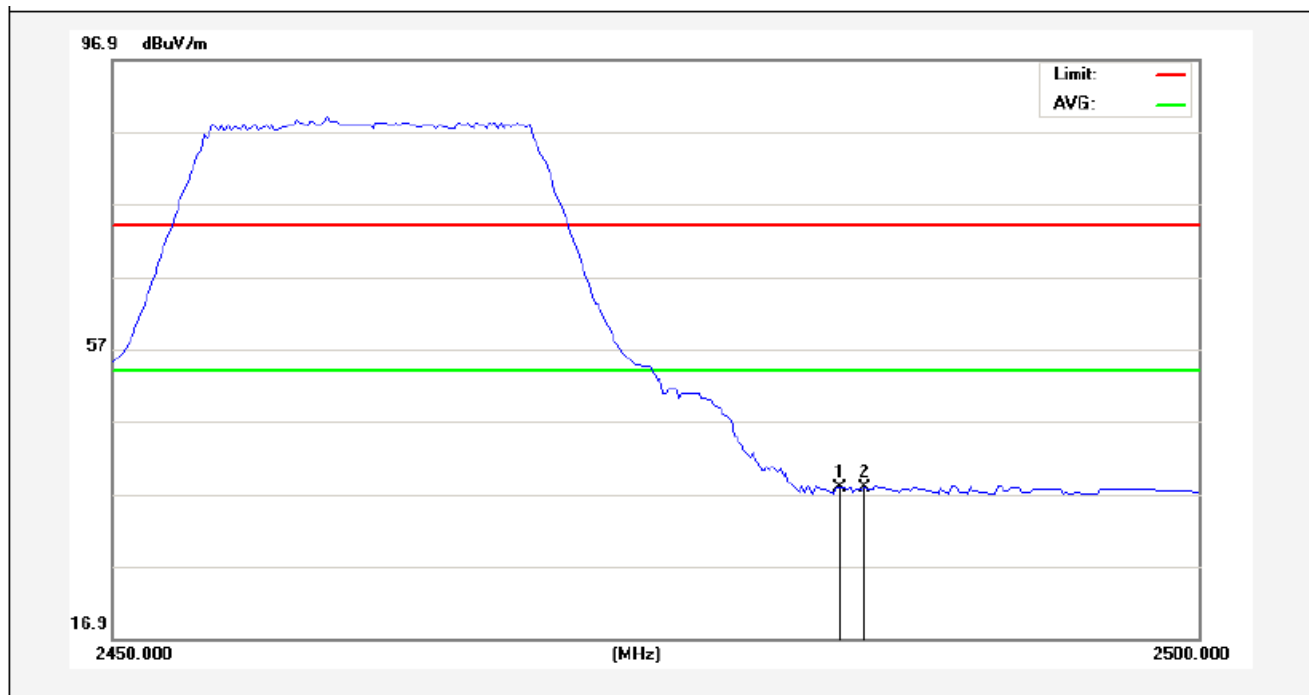
2462MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	40.12	-2.31	37.81	74.00	-36.19	peak			
2	2488.125	42.46	-2.30	40.16	74.00	-33.84	peak			

Horizontal-AV:

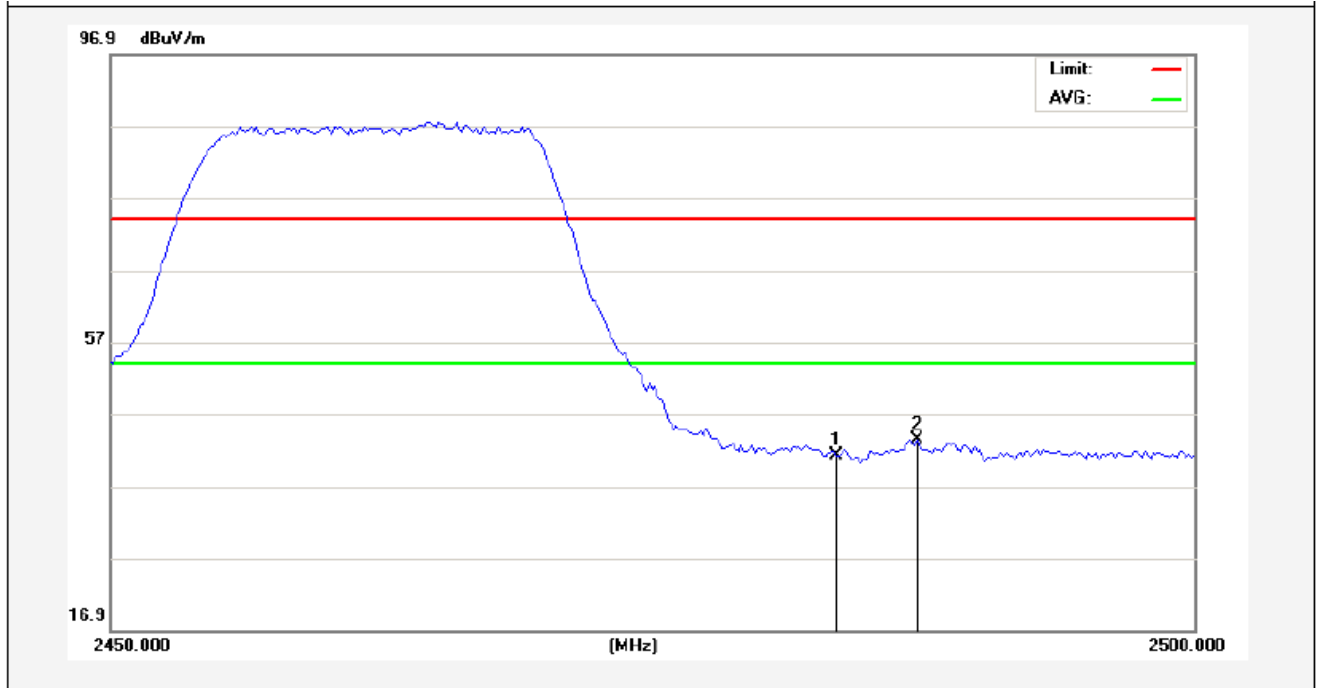


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	40.11	-2.31	37.80	54.00	-16.20	AVG			
2	2484.625	40.11	-2.30	37.81	54.00	-16.19	AVG			

Test Mode: 802.11n (HT20)

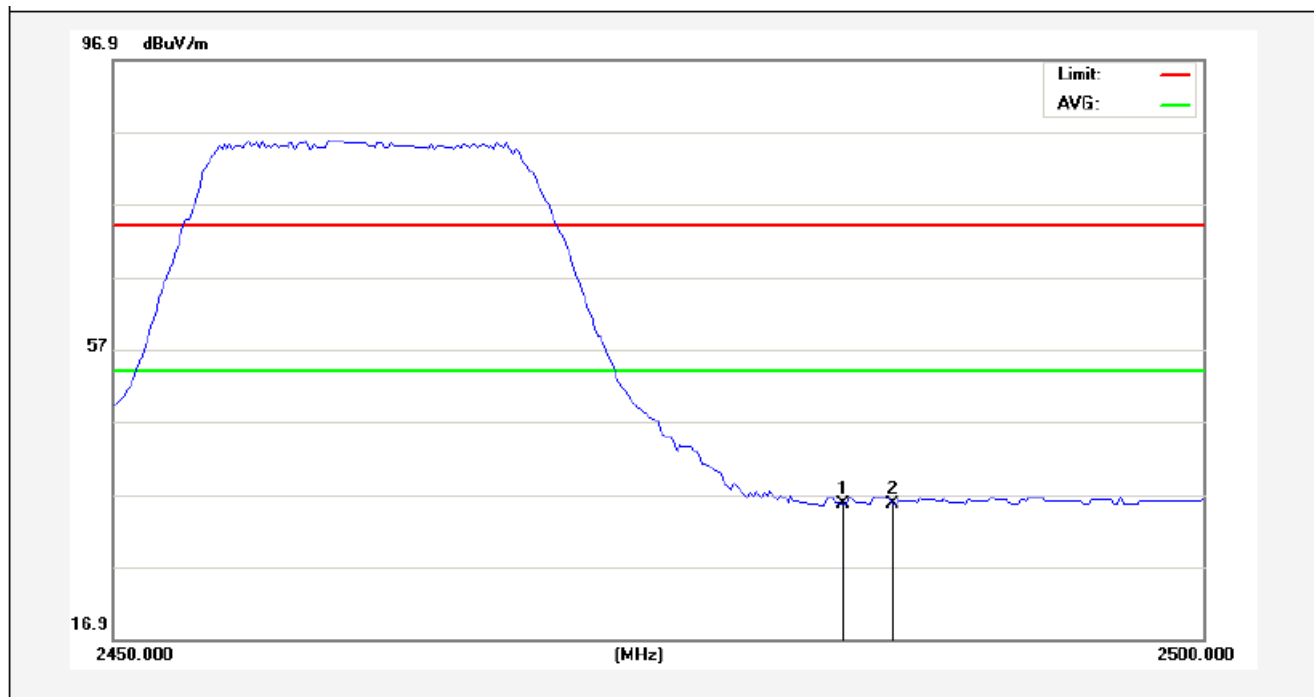
2462MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	43.59	-2.31	41.28	74.00	-32.72	peak			
2	2487.250	45.76	-2.30	43.46	74.00	-30.54	peak			

Vertical-AV:

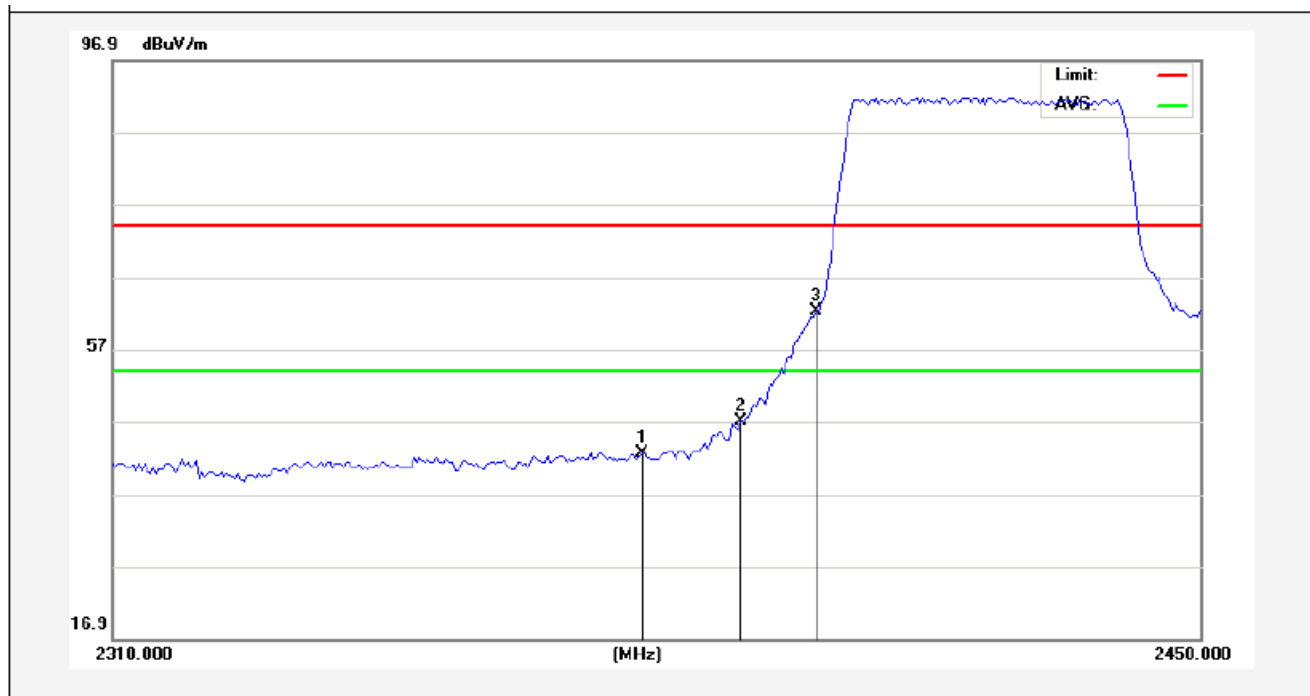


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	37.97	-2.31	35.66	54.00	-18.34	AVG			
2	2485.750	38.00	-2.30	35.70	54.00	-18.30	AVG			

Test Mode: 802.11n (HT40)

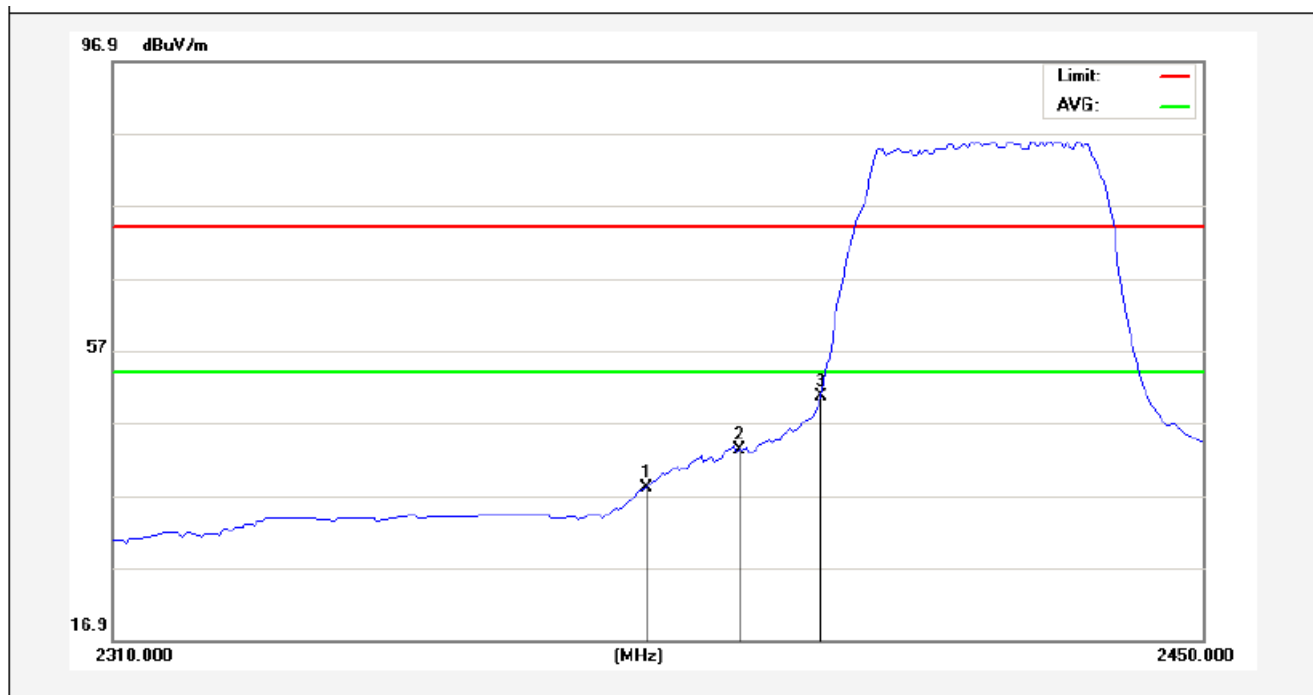
2422MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2377.550	45.22	-2.54	42.68	74.00	-31.32	peak			
2	2390.000	49.46	-2.51	46.95	74.00	-27.05	peak			
3	2400.000	64.72	-2.49	62.23	74.00	-11.77	peak			

Horizontal-AV:

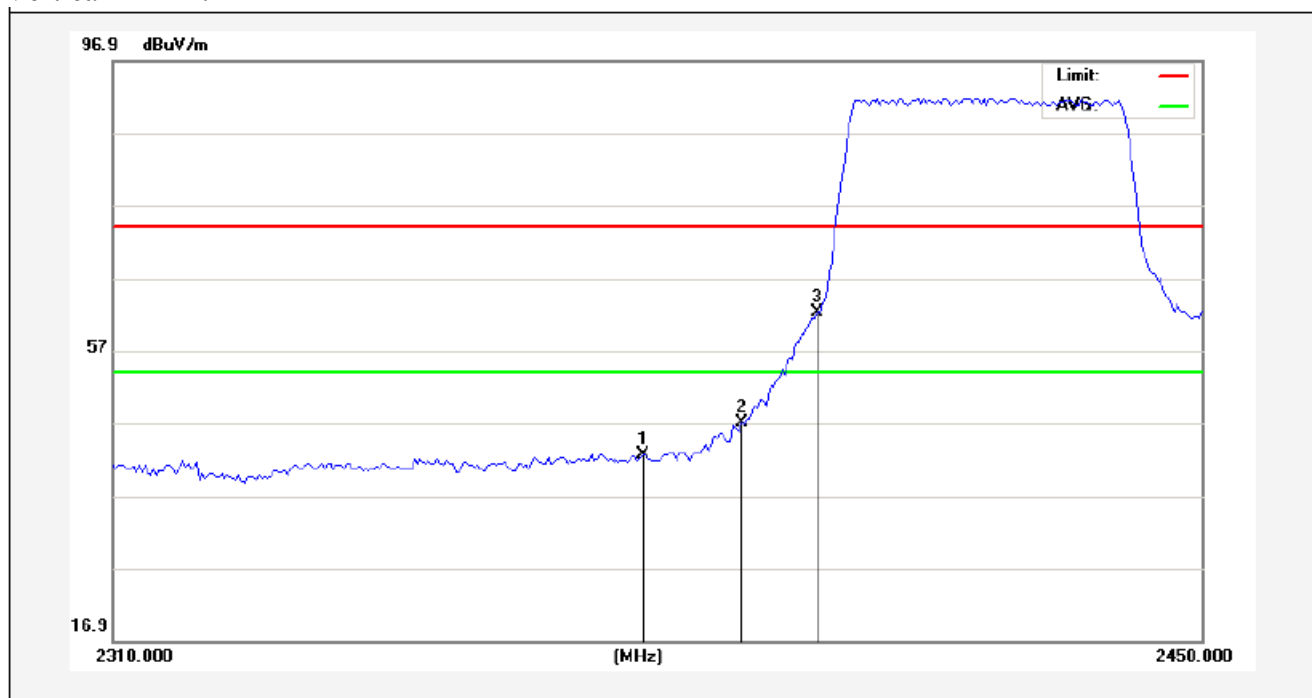


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2377.900	40.63	-2.54	38.09	54.00	-15.91	AVG			
2	2390.000	45.64	-2.51	43.13	54.00	-10.87	AVG			
3	2400.000	53.16	-2.49	50.67	54.00	-3.33	AVG			

Test Mode: 802.11n (HT40)

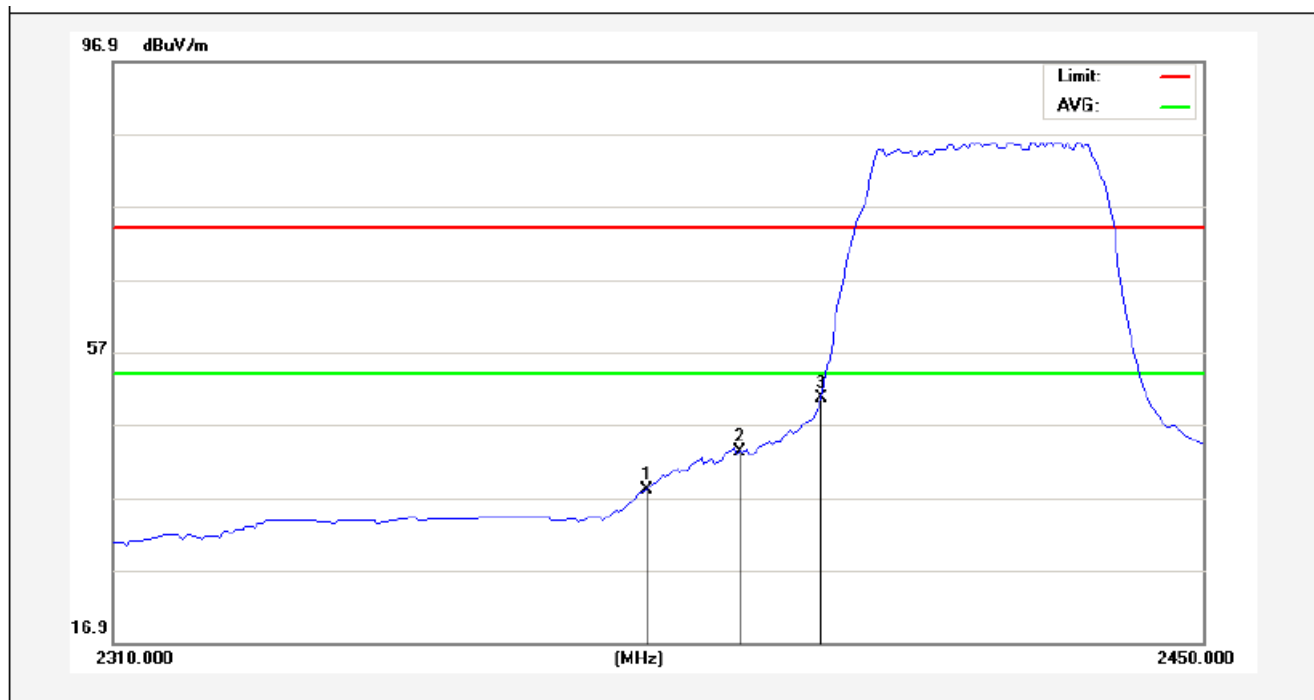
2422MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2377.550	45.22	-2.54	42.68	74.00	-31.32	peak			
2	2390.000	49.46	-2.51	46.95	74.00	-27.05	peak			
3	2400.000	64.72	-2.49	62.23	74.00	-11.77	peak			

Vertical-AV:

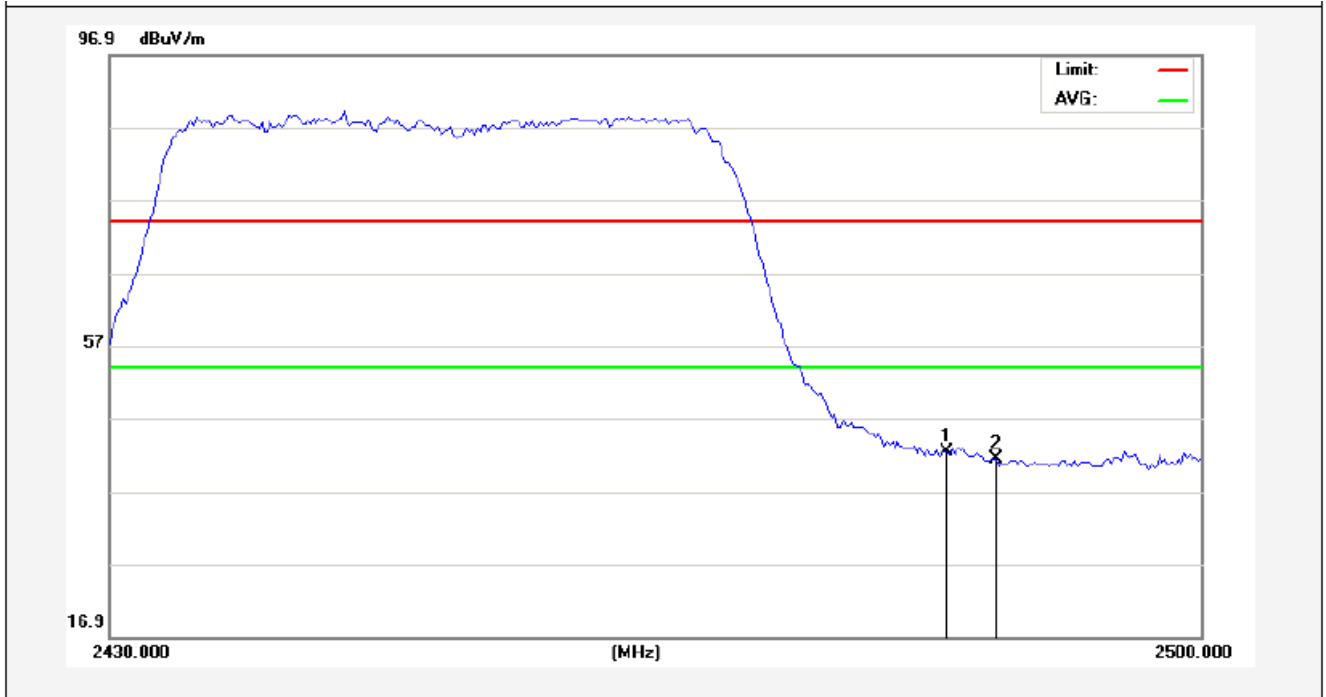


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2377.900	40.63	-2.54	38.09	54.00	-15.91	AVG			
2	2390.000	45.64	-2.51	43.13	54.00	-10.87	AVG			
3	2400.000	53.16	-2.49	50.67	54.00	-3.33	AVG			

Test Mode: 802.11n (HT40)

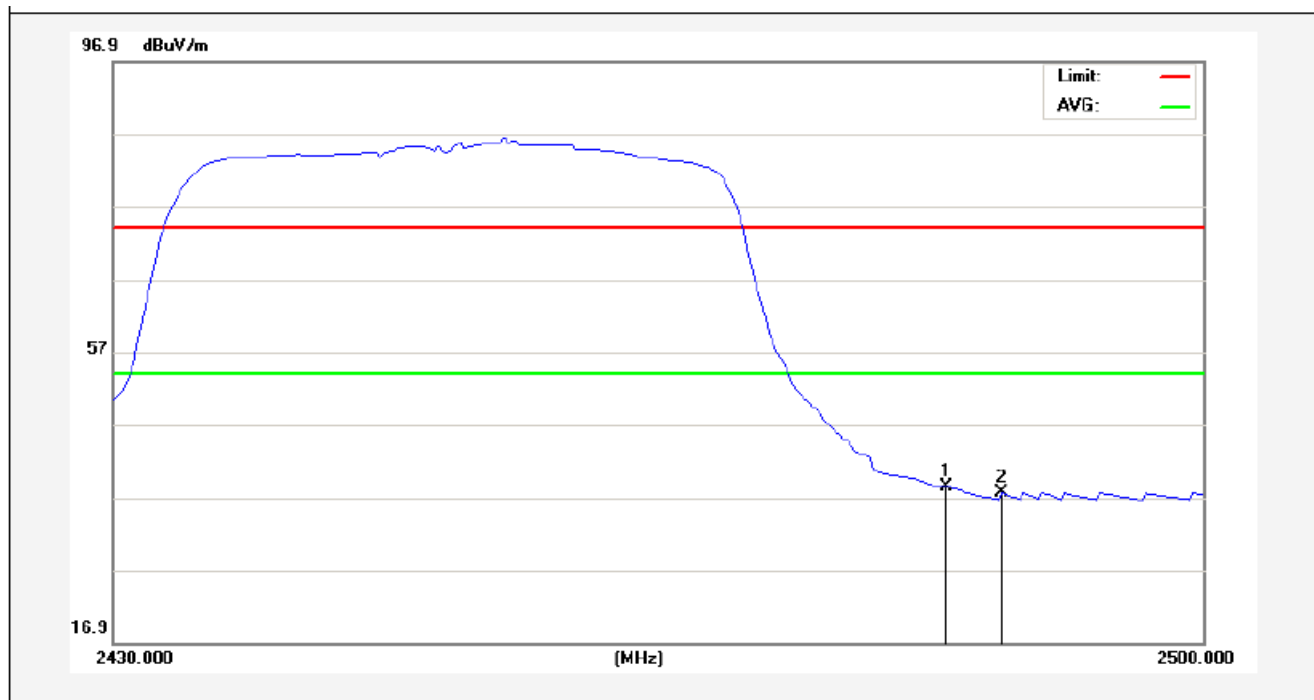
2452MHz

Horizontal-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	44.73	-2.31	42.42	74.00	-31.58	peak			
2	2486.875	43.79	-2.30	41.49	74.00	-32.51	peak			

Horizontal-AV:

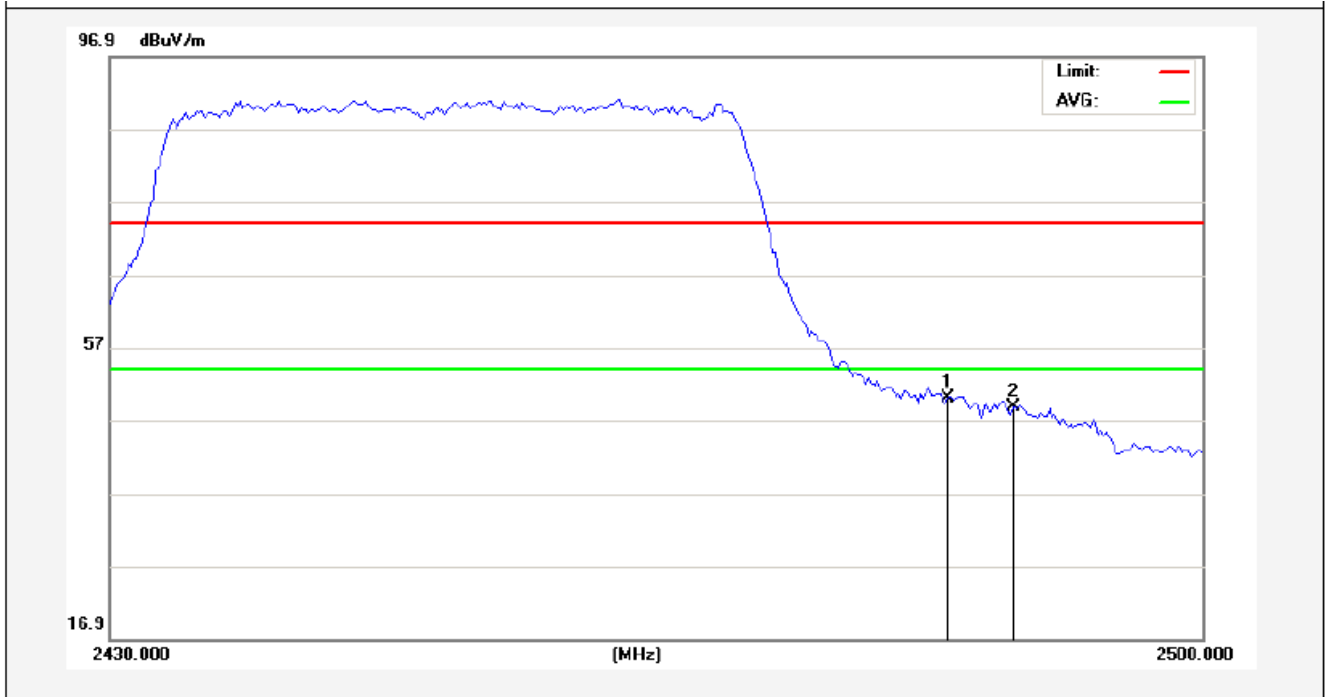


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	40.70	-2.31	38.39	54.00	-15.61	AVG			
2	2487.050	39.86	-2.30	37.56	54.00	-16.44	AVG			

Test Mode: 802.11n (HT40)

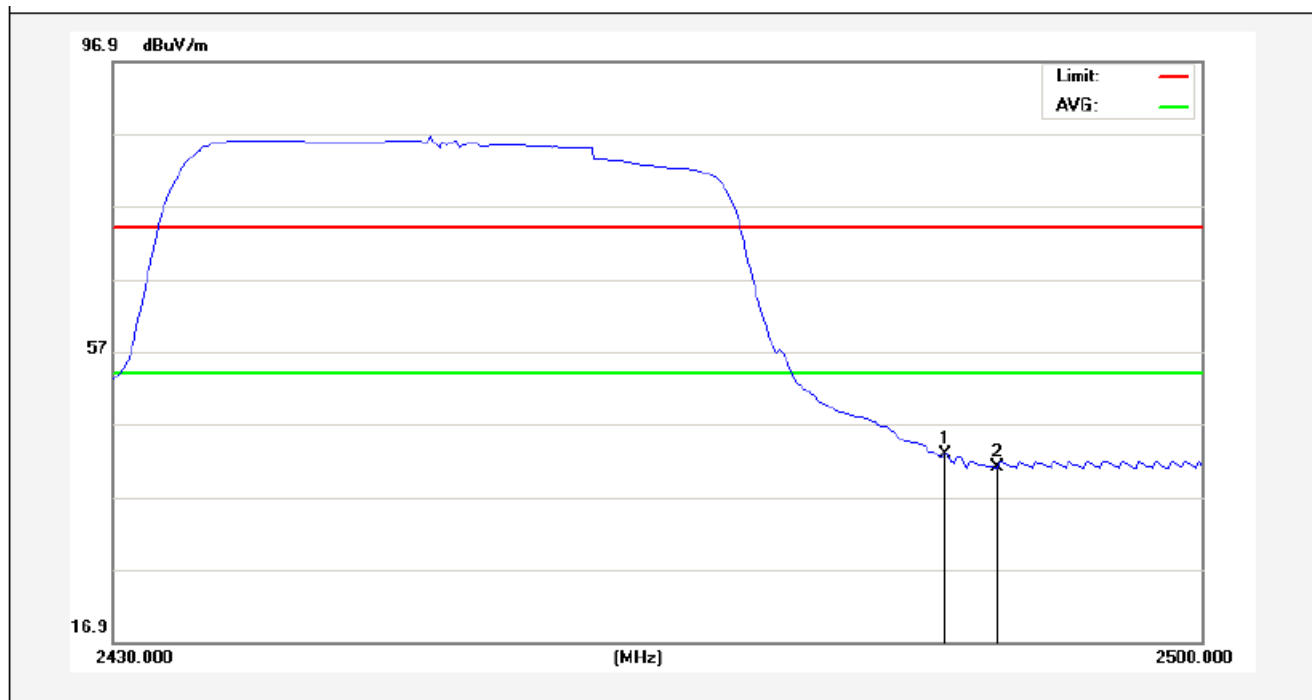
2452MHz

Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	52.31	-2.31	50.00	74.00	-24.00	peak			
2	2487.925	51.01	-2.30	48.71	74.00	-25.29	peak			

Vertical-AV:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	45.10	-2.31	42.79	54.00	-11.21	AVG			
2	2486.875	43.24	-2.30	40.94	54.00	-13.06	AVG			

3.5. Peak Power Spectral Density

a. Limit

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

b. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Equipment

Same as the equipment listed in 3.2.

d. Test Setup

See 4.1

e. Test Results

Pass

f. Test Data

Please refer to the following data.

g. Test Plot See the following pages

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-6.362	-	8.00	Pass
Mid	2437	-4.635	-		Pass
High	2462	-4.791	-		Pass

Test mode: IEEE 802.11g

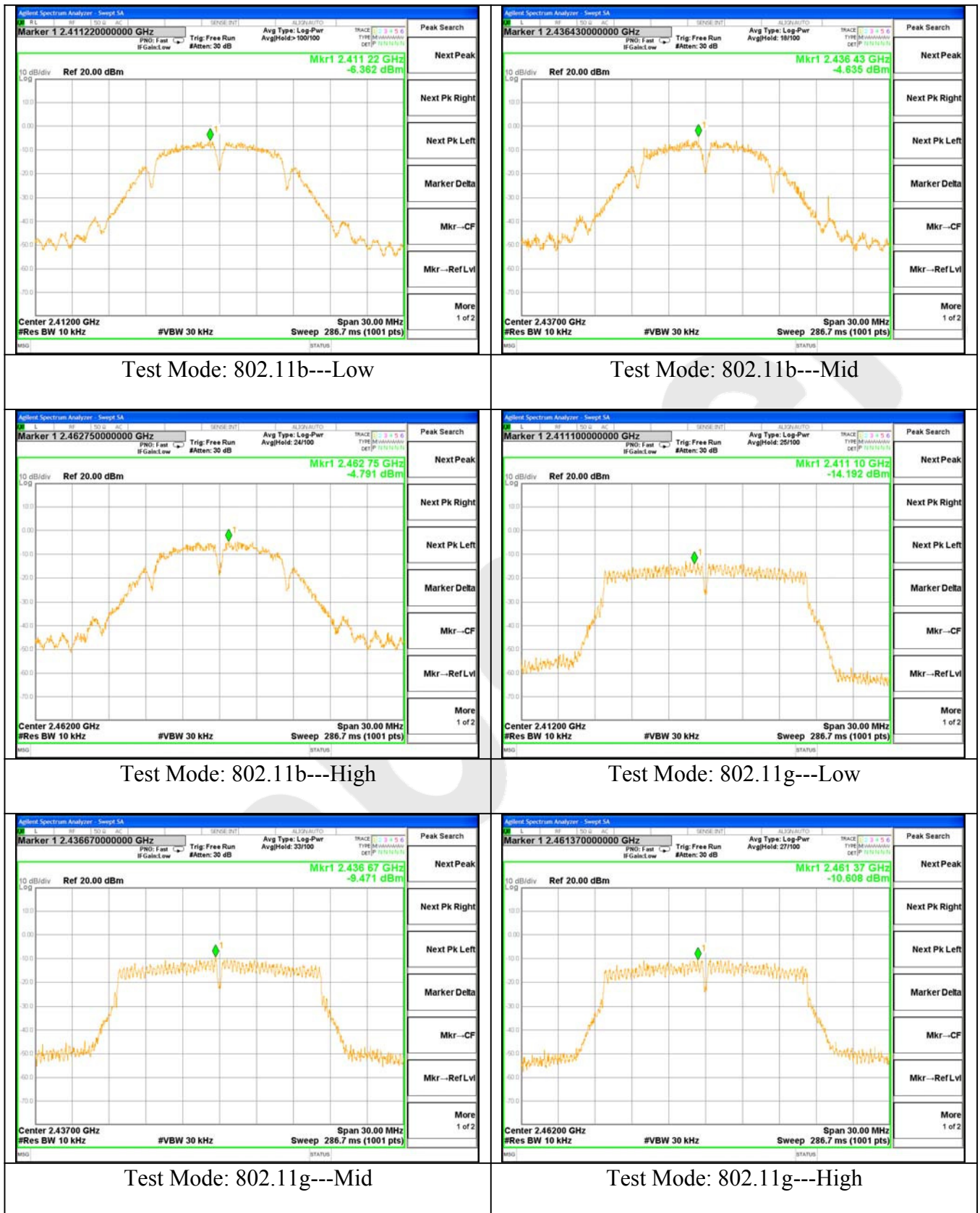
Channel	Frequency (MHz)	PPSD (dBm)	Σ PPSD (dBm)	Limit (dBm)	Result
Low	2412	-14.192	-	8.00	Pass
Mid	2437	-9.471	-		Pass
High	2462	-10.608	-		Pass

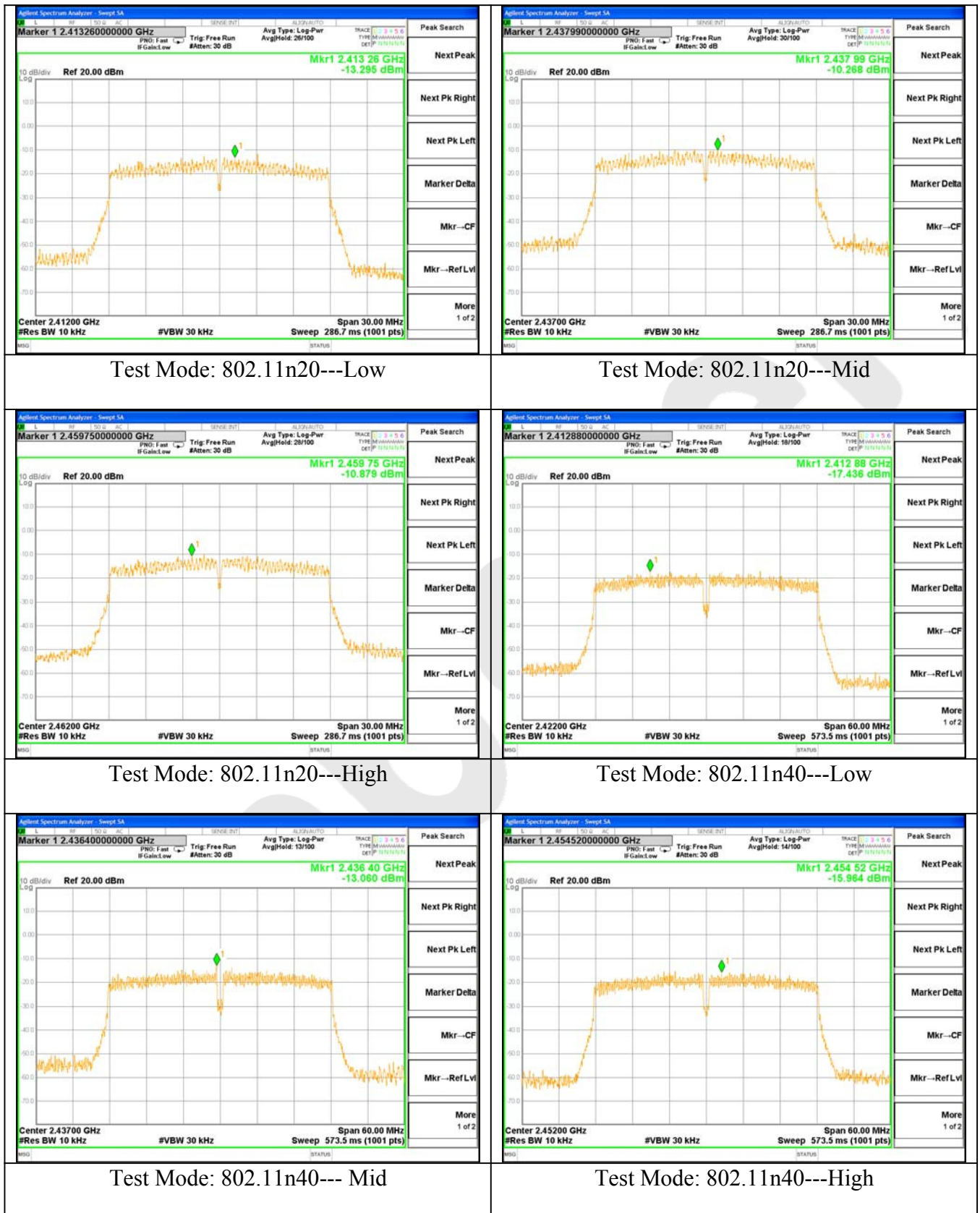
Test mode: IEEE 802.11n (HT20)

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-13.295	-	8.00	Pass
Mid	2437	-10.268	-		Pass
High	2462	-10.879	-		Pass

Test mode: IEEE 802.11n (HT40)

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2422	-17.436	-	8.00	Pass
Mid	2437	-13.060	-		Pass
High	2452	-15.964	-		Pass





3.6. Radiated Emissions

4.6.1.1. Test Limits (< 30 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

4.6.1.2. Test Limits (≥ 30 MHz)

FIELD STRENGTH of Fundamental: @3M	FIELD STRENGTH of Harmonics	S15.209 30 - 88 MHz	40 dBuV/m
902-928 MHz		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz	54dBuV/m

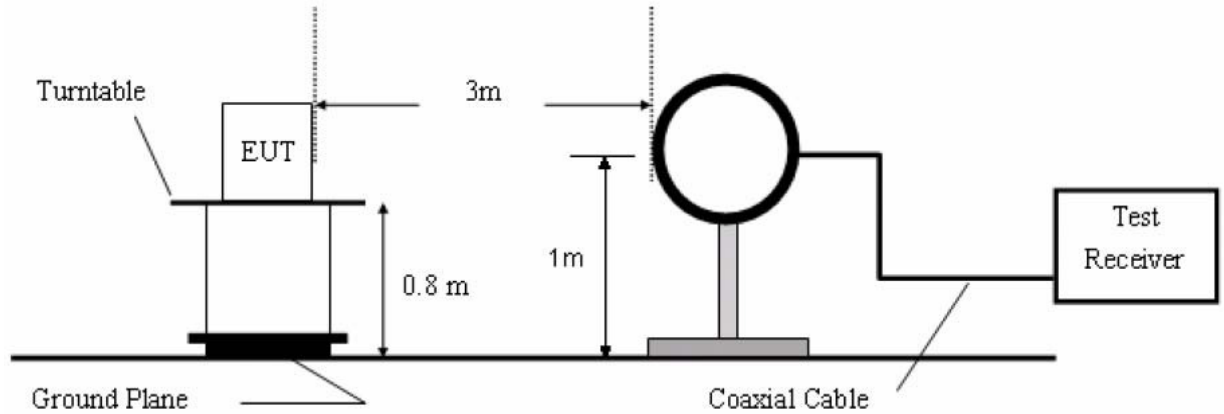
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 15.205(c)).

Test Equipment

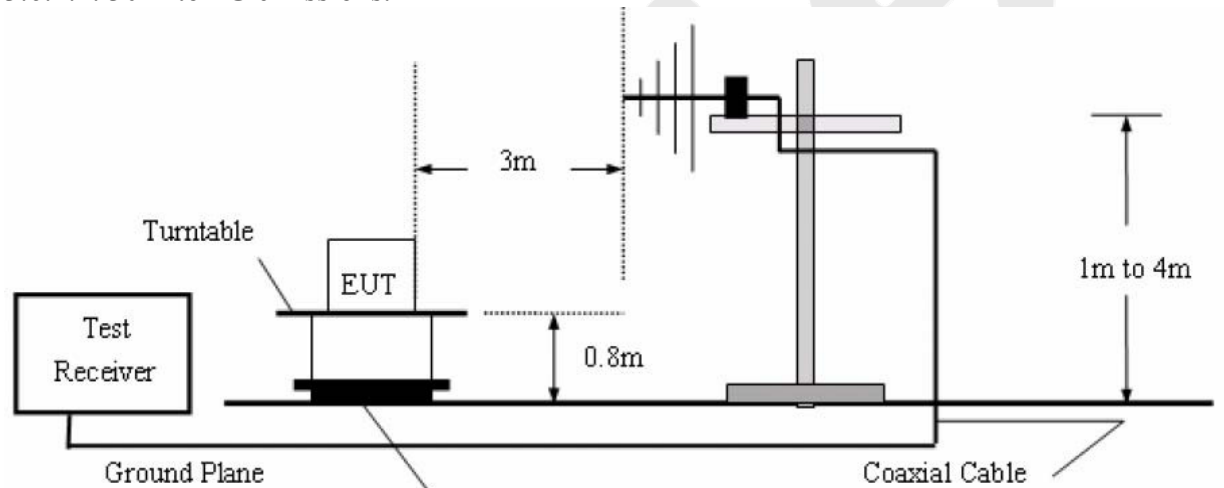
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2016	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Apr. 17, 2016	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2016	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2016	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2016	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2016	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8.	Power Sensor	DAER	RPR3006W	15100041SN046	Jun 30, 2015	1 Year
9.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun 30, 2015	1 Year
10.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun 30, 2015	1 Year
11.	Signal Generator	Agilent	E4421B	MY41000743	Jun 30, 2015	1 Year
12.	DC Power supply	IV	IV-8080	YQSB0096	Jun 30, 2015	1 Year
13.	TEMP&HUMI PROGRAMMABLE CHAMBER	Bell Group	BE-THK-15 0M8	SE-0137	Mar 16, 2016	1 Year

3.6.2. Test Configuration:

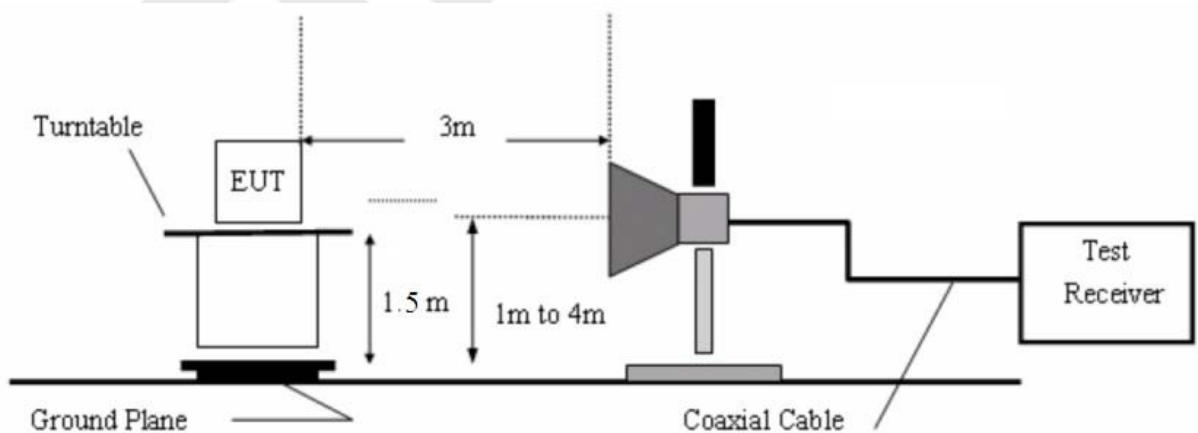
3.6.2.1. 9k to 30MHz emissions:



3.6.2.2. 30M to 1G emissions:



3.6.2.3. 1G to 40G emissions:



3.6.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.
The turn table can rotate 360 degrees to determine the position of the maximum emission level.
The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower.
The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Measurements are made on 9KHz to 30MHz and 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz.

The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

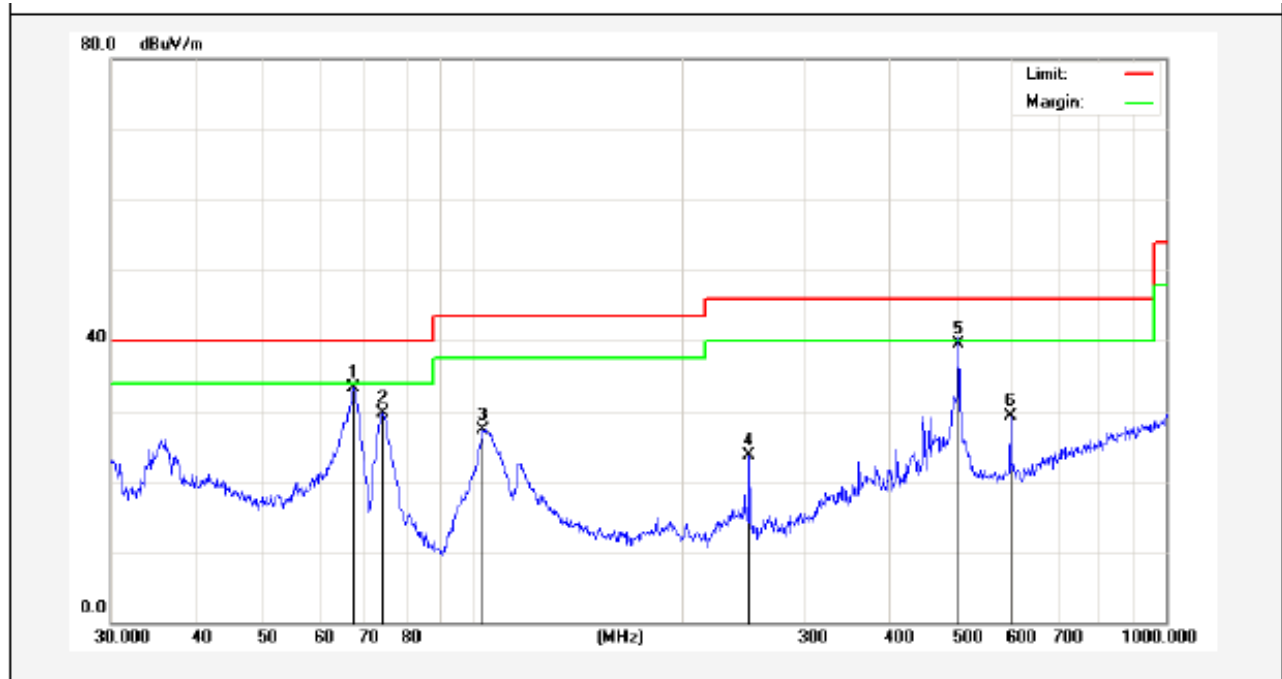
The test results are listed in Section 3.6.4.

3.6.4. Test Results

Please refer the following pages. Only the worst case (x orientation).

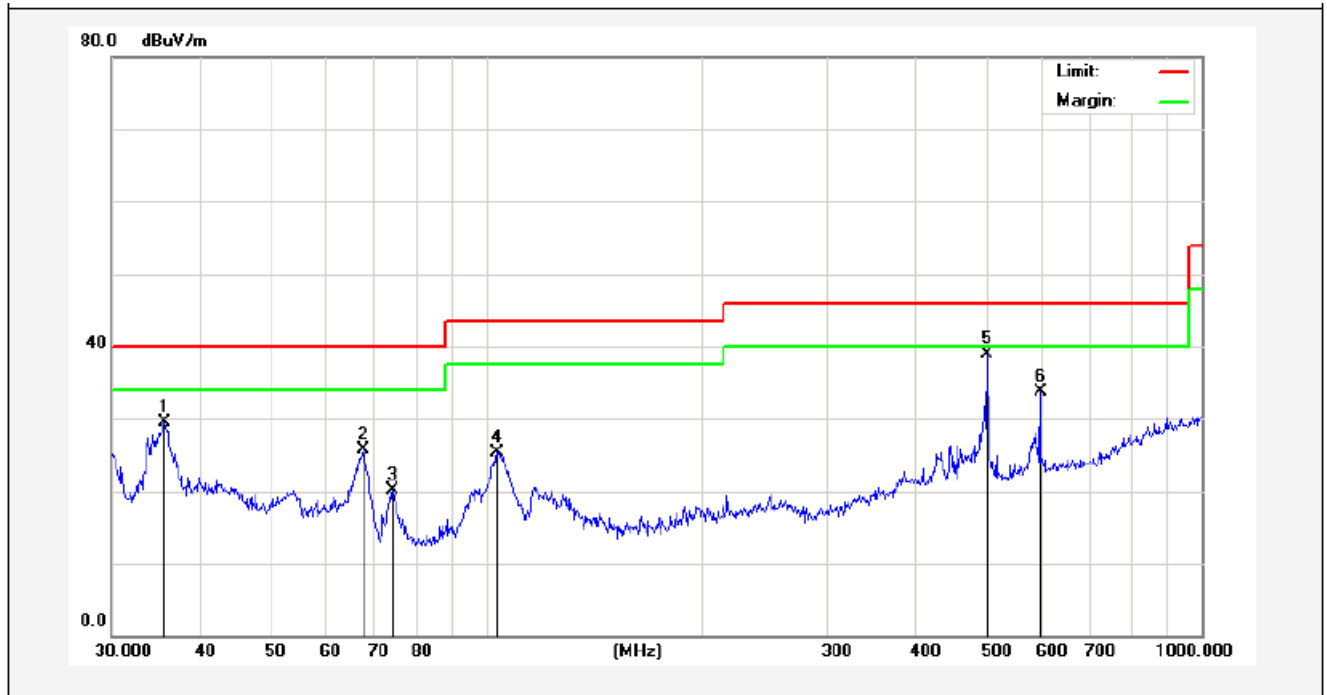
The test results of above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Job No.:	0116040181	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C_3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Test Mode:	Wifi mode	Distance:	3m



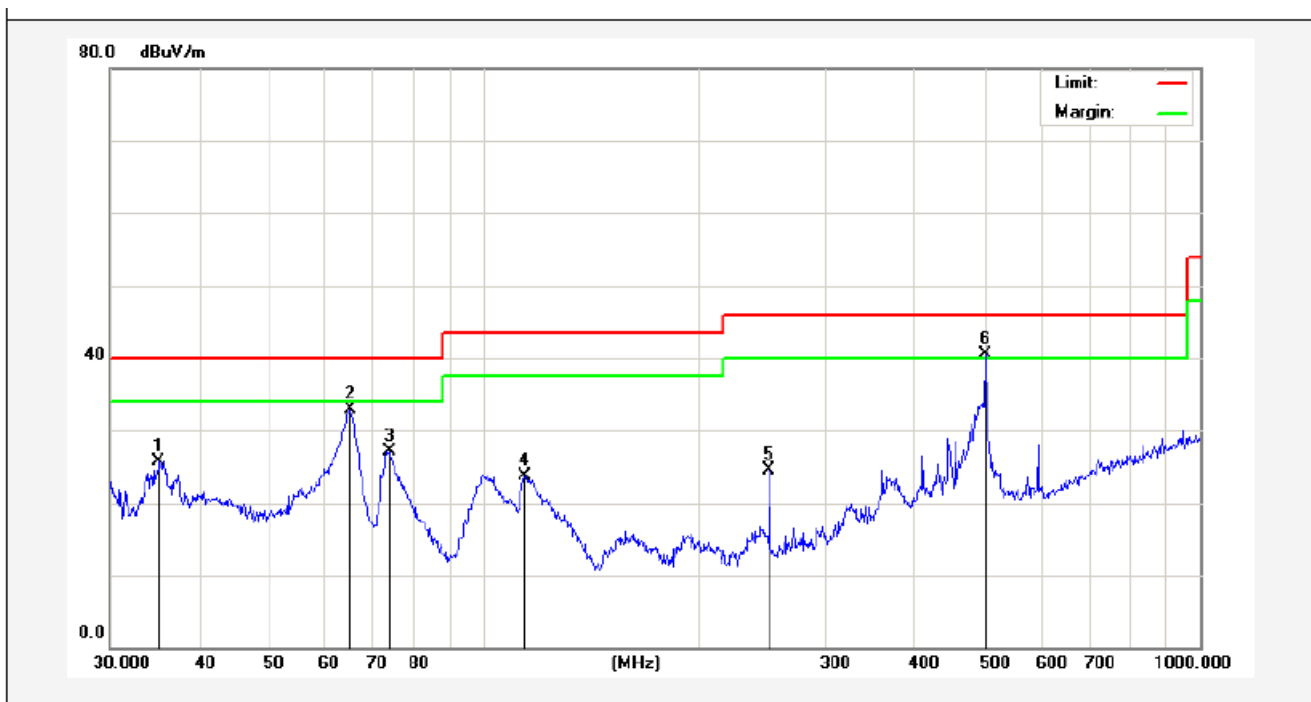
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	67.2022	51.66	-18.42	33.24	40.00	-6.76	peak			
2	74.1351	50.16	-20.42	29.74	40.00	-10.26	peak			
3	103.4421	48.01	-20.71	27.30	43.50	-16.20	peak			
4	250.3012	42.22	-18.56	23.66	46.00	-22.34	peak			
5	501.1790	50.50	-10.96	39.54	46.00	-6.46	QP	300	0	
6	595.1329	40.45	-11.22	29.23	46.00	-16.77	peak			

Job No.:	011604018I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C_3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Test Mode:	Wifi mode	Distance:	3m



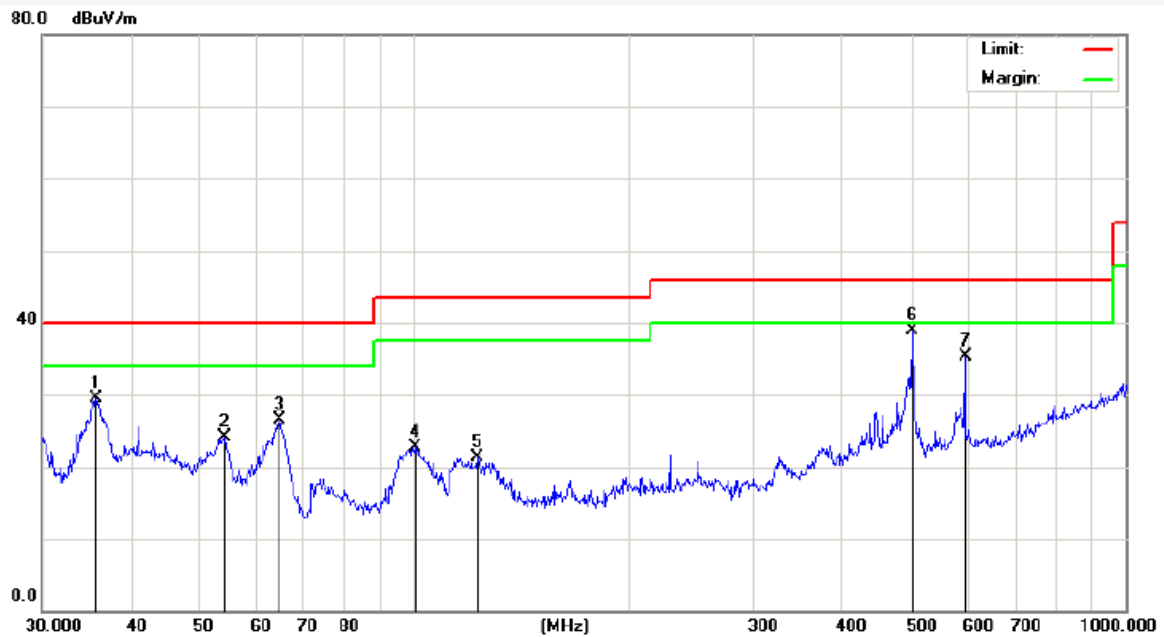
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.4993	43.36	-13.90	29.46	40.00	-10.54	peak			
2	67.4382	44.30	-18.51	25.79	40.00	-14.21	peak			
3	74.1351	40.44	-20.42	20.02	40.00	-19.98	peak			
4	103.8055	41.06	-15.71	25.35	43.50	-18.15	peak			
5	501.1790	49.91	-10.94	38.97	46.00	-7.03	peak			
6	595.1329	43.04	-9.32	33.72	46.00	-12.28	peak			

Job No.:	011604018I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C_3m	Power Source:	DC 24V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Test Mode:	Wifi mode	Distance:	3m



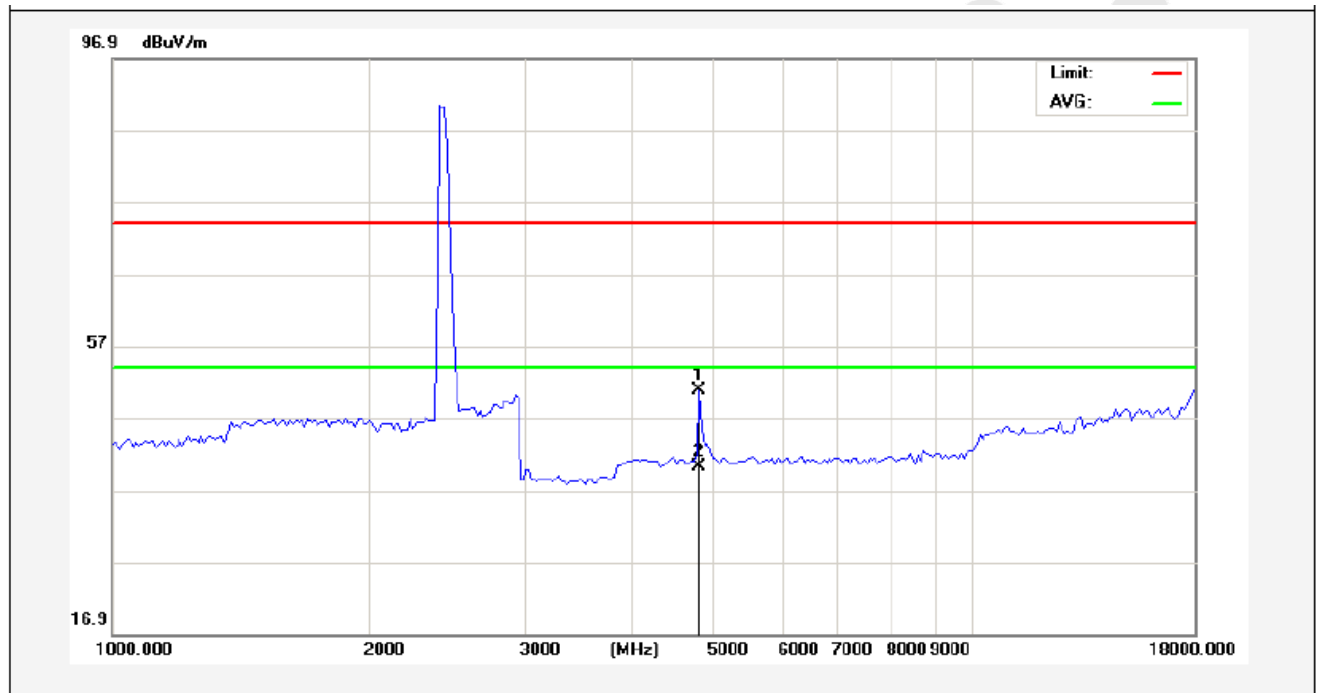
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.1278	39.92	-14.19	25.73	40.00	-14.27	peak			
2	65.1145	50.50	-17.52	32.98	40.00	-7.02	peak			
3	73.6170	47.47	-20.32	27.15	40.00	-12.85	peak			
4	114.1138	44.54	-20.92	23.62	43.50	-19.88	peak			
5	250.3012	43.10	-18.56	24.54	46.00	-21.46	peak			
6	501.1790	51.48	-10.96	40.52	46.00	-5.48	peak			

Job No.:	0116040181	Polarization:	Vertical
Standard:	(RE)FCC PART15 C_3m	Power Source:	DC 24V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Test Mode:	Wifi mode	Distance:	3m



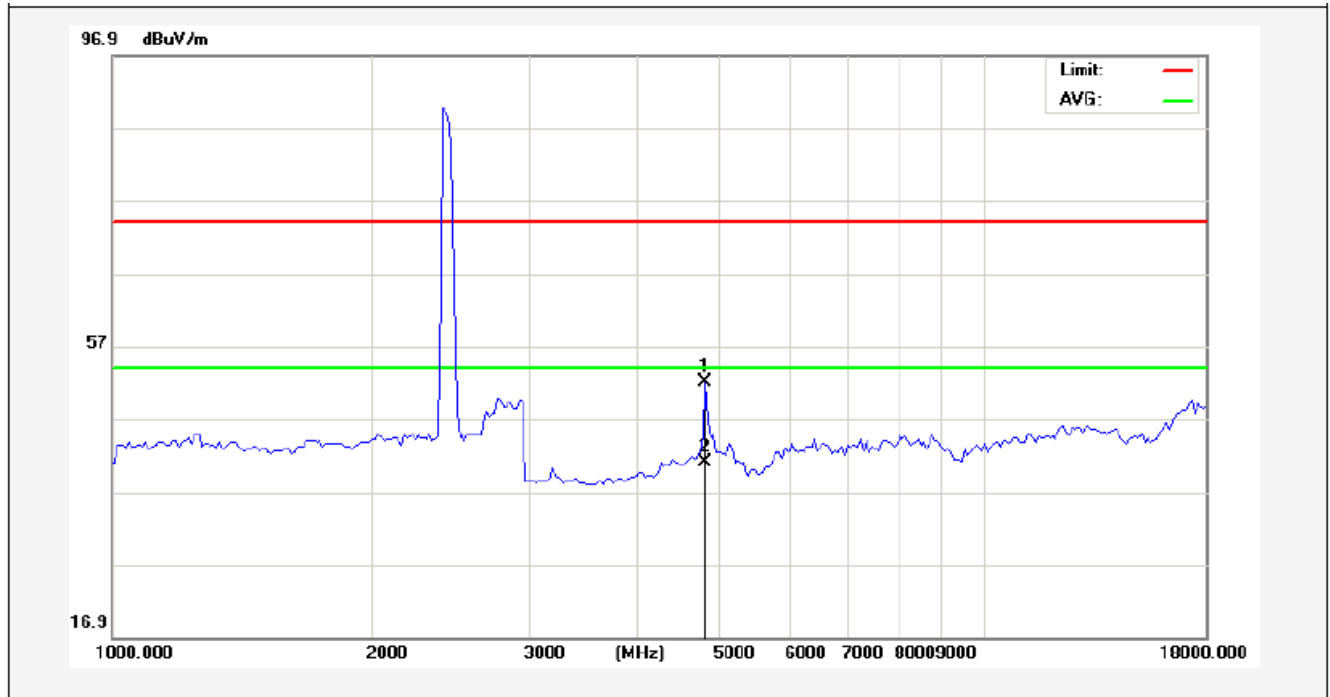
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.7490	43.26	-13.70	29.56	40.00	-10.44	peak			
2	54.2610	38.96	-14.87	24.09	40.00	-15.91	peak			
3	64.6594	43.88	-17.33	26.55	40.00	-13.45	peak			
4	100.5806	38.49	-15.76	22.73	43.50	-20.77	peak			
5	122.8340	38.01	-16.75	21.26	43.50	-22.24	peak			
6	501.1790	49.91	-10.94	38.97	46.00	-7.03	peak			
7	595.1329	44.55	-9.32	35.23	46.00	-10.77	peak			

Job No.:	011604018I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Note:	802.11b(2412MHz)	Distance:	3m



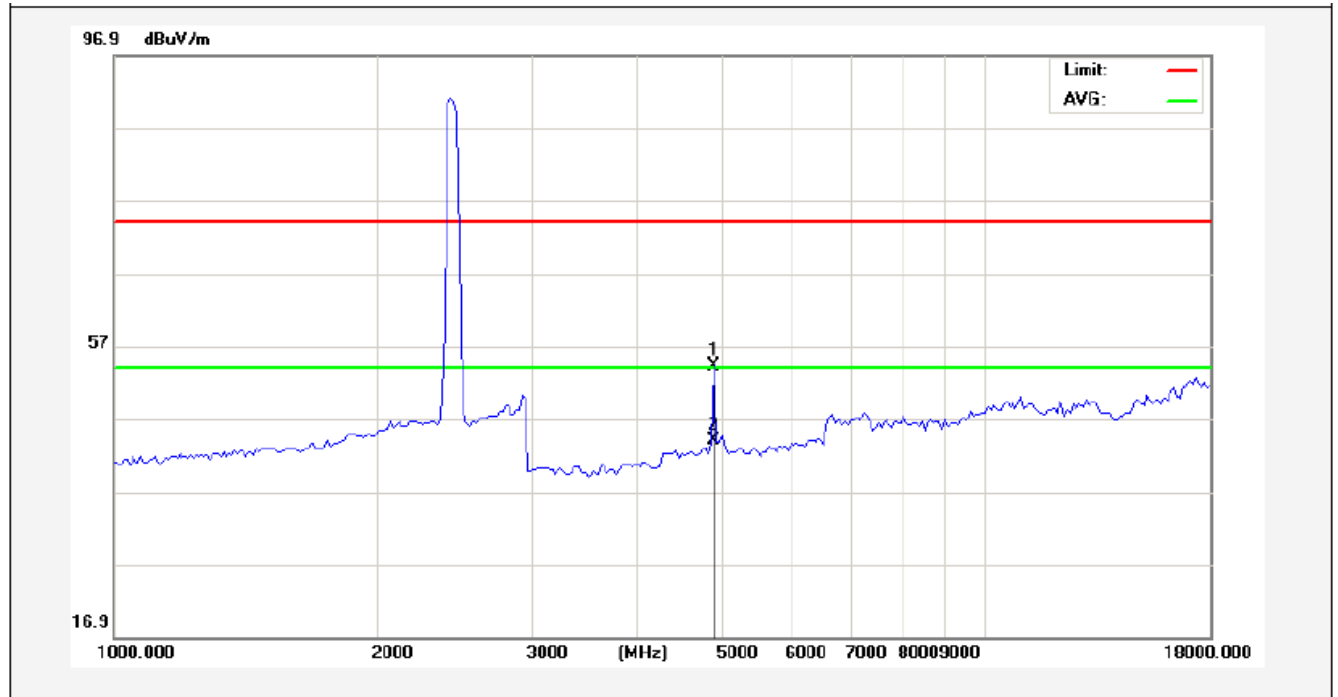
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4825.000	47.37	3.34	50.71	74.00	-23.29	peak			
2	4825.000	36.83	3.34	40.17	54.00	-13.83	AVG			

Job No.:	011604018I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55 %RH
Note:	802.11b(2412MHz)	Distance:	3m



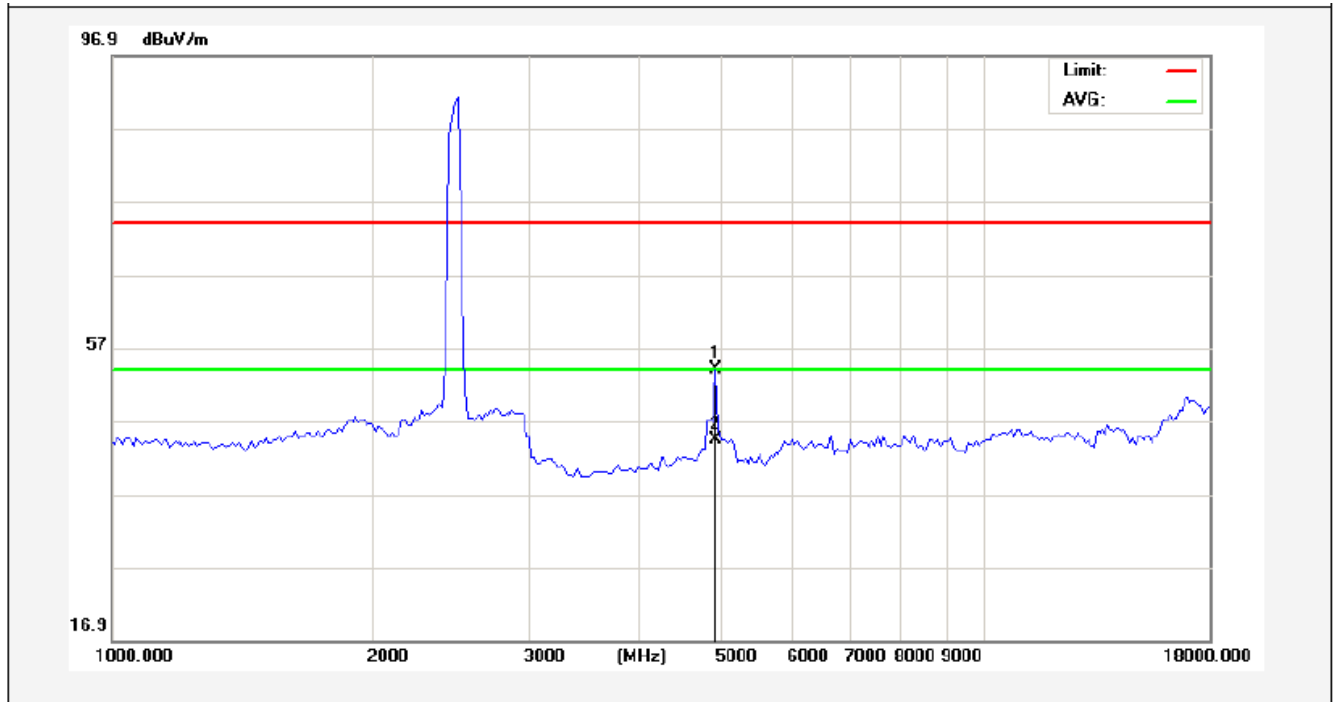
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4825.000	48.60	3.34	51.94	74.00	-22.06	peak			
2	4825.000	37.70	3.34	41.04	54.00	-12.96	AVG			

Job No.:	011604018I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55 % RH
Note:	802.11b(2437MHz)	Distance:	3m



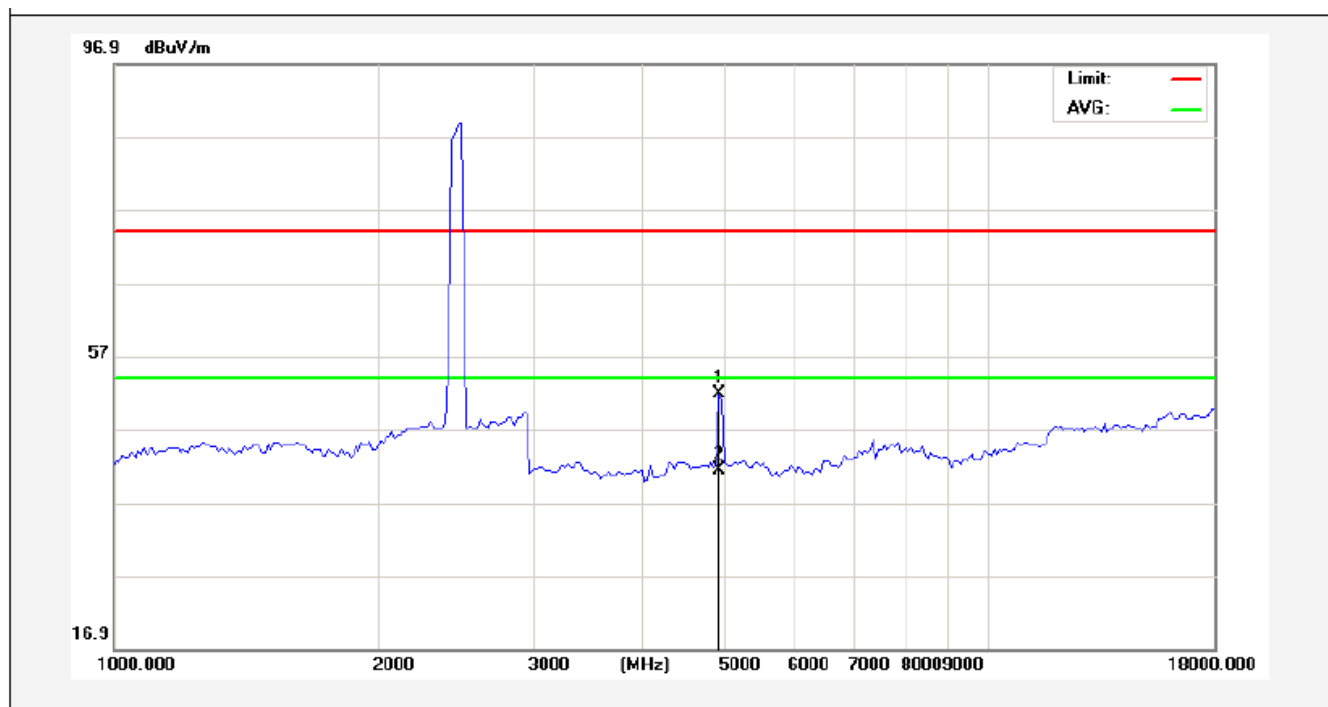
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4867.500	50.89	3.41	54.30	74.00	-19.70	peak			
2	4867.500	40.68	3.41	44.09	54.00	-9.91	AVG			

Job No.:	011604018I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Note:	802.11b(2437MHz)	Distance:	3m



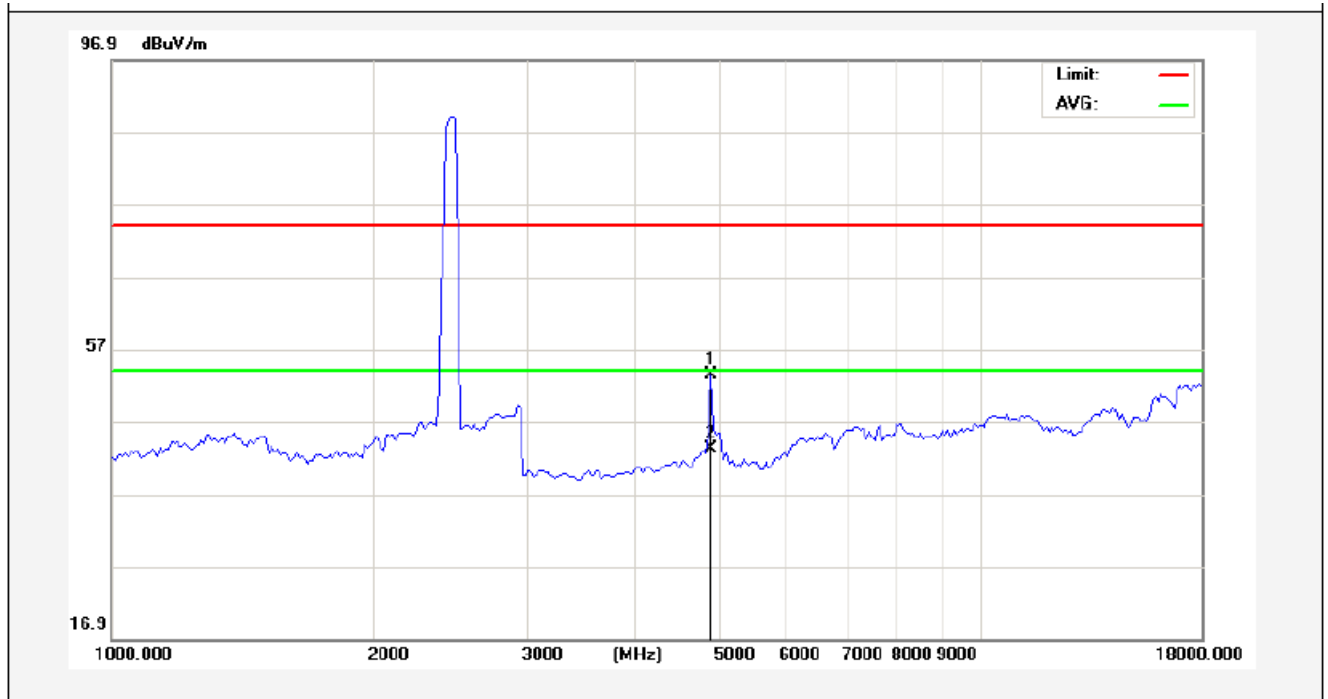
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4910.000	50.53	3.49	54.02	74.00	-19.98	peak			
2	4910.000	41.01	3.49	44.50	54.00	-9.50	AVG			

Job No.:	011604018I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C_3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Note:	802.11b(2462MHz)	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4910.000	48.37	3.49	51.86	74.00	-22.14	peak			
2	4910.000	37.84	3.49	41.33	54.00	-12.67	AVG			

Job No.:	011604018I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C_3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55% RH
Note:	802.11b(2462MHz)	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4902.300	49.96	3.48	53.44	74.00	-20.56	peak			
2	4902.300	39.69	3.48	43.17	54.00	-10.83	AVG			

4. ANTENNA APPLICATION

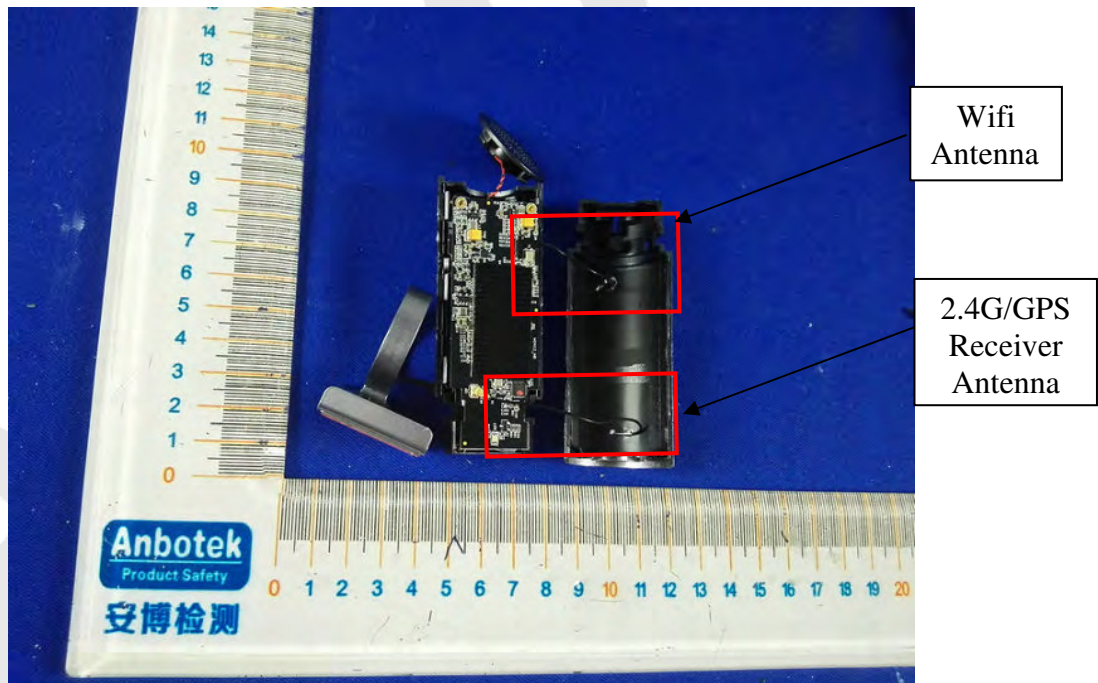
4.1. Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

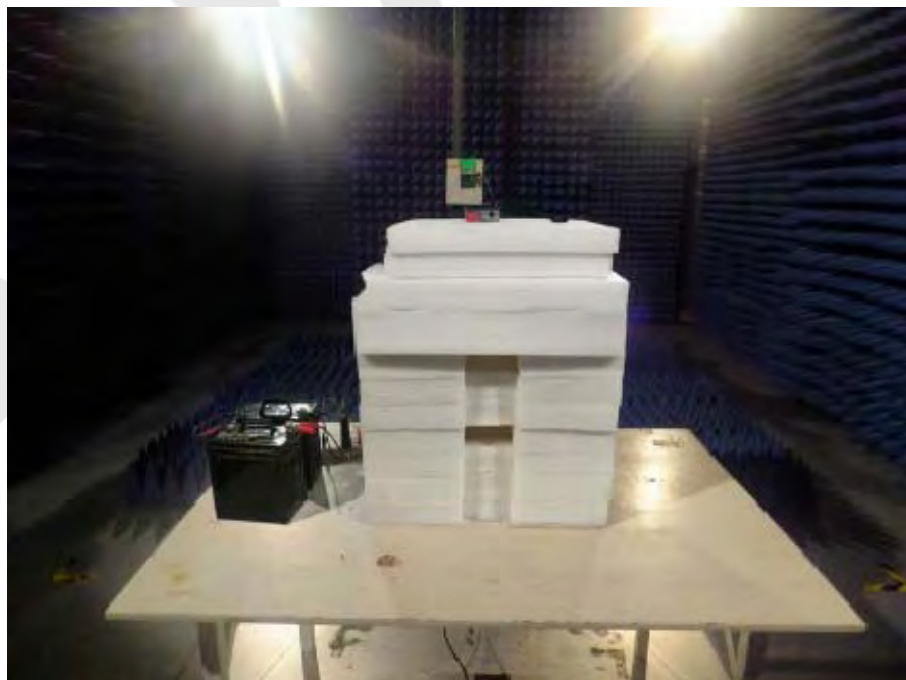
4.2. Result

The EUT's antenna used a Integrated antenna which is permanently attached, The Wifi antenna's gain is 2.41dBi and 2.4G/GPS receiver antenna's gain is 1.6dBi meets the requirement.



5. PHOTOGRAPH

5.1. Photo of Radiation Emission Test

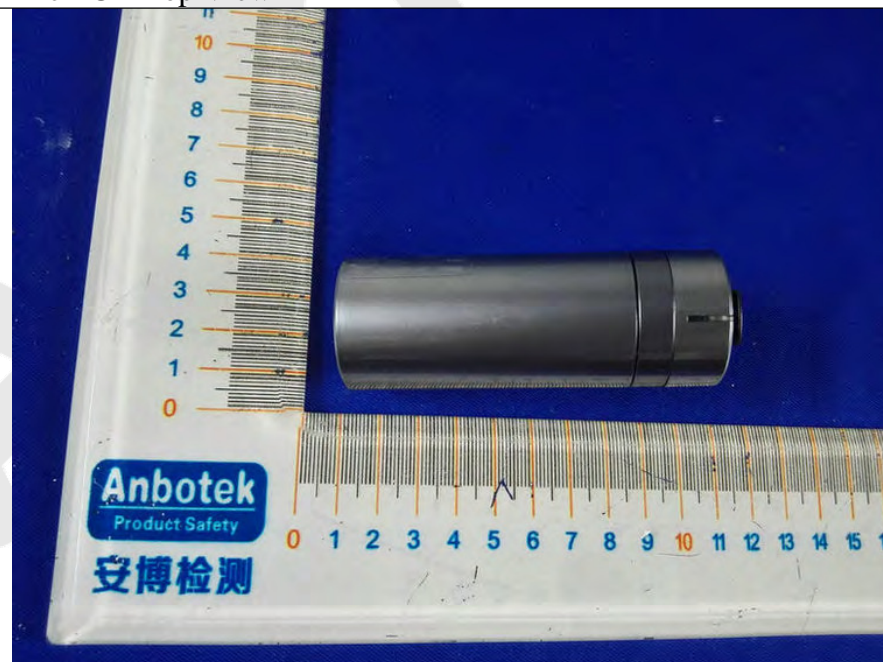


APPENDIX I (EXTERNAL PHOTOS)

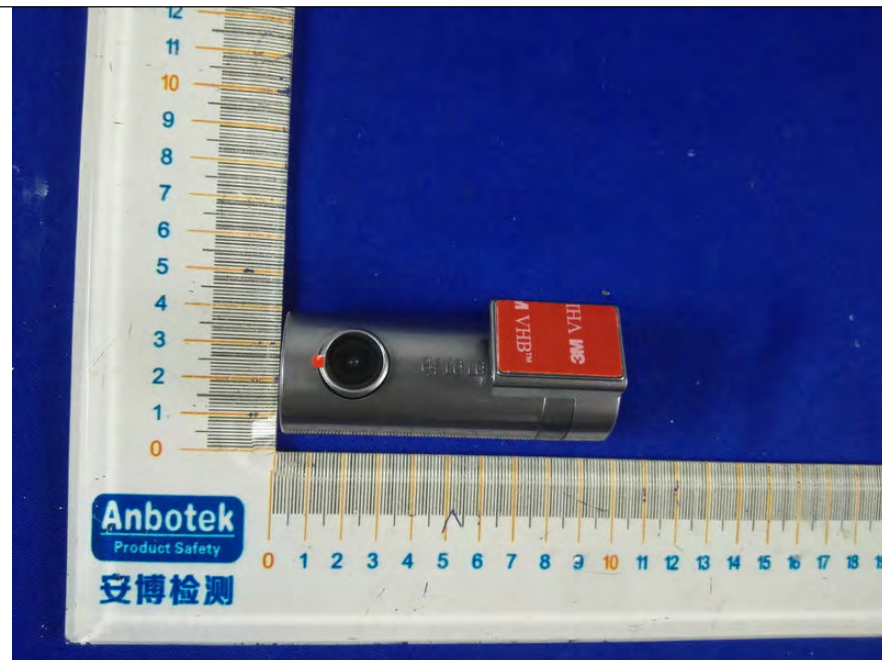
1. Figure
The EUT-Overall View



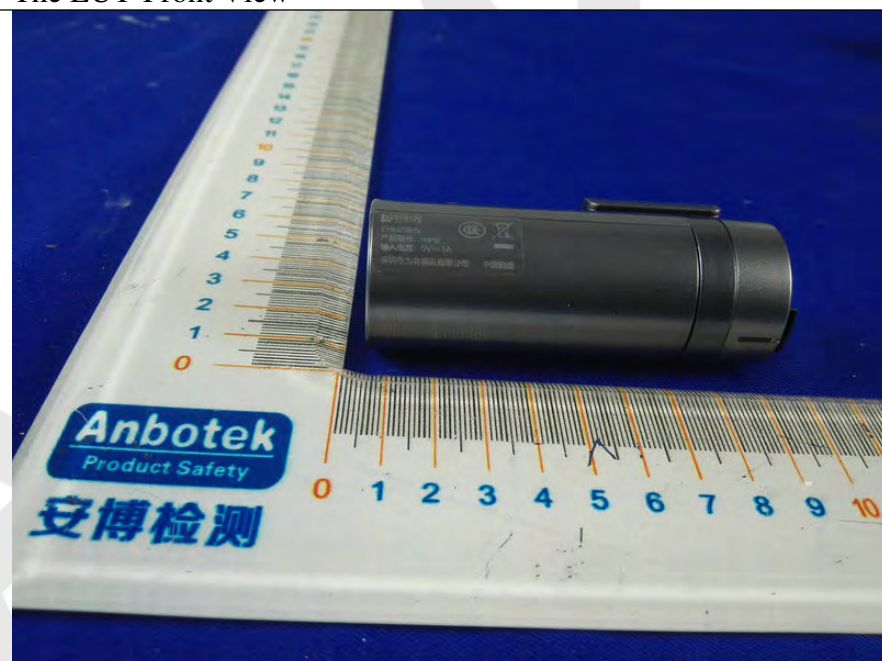
2. Figure
The EUT-Top View



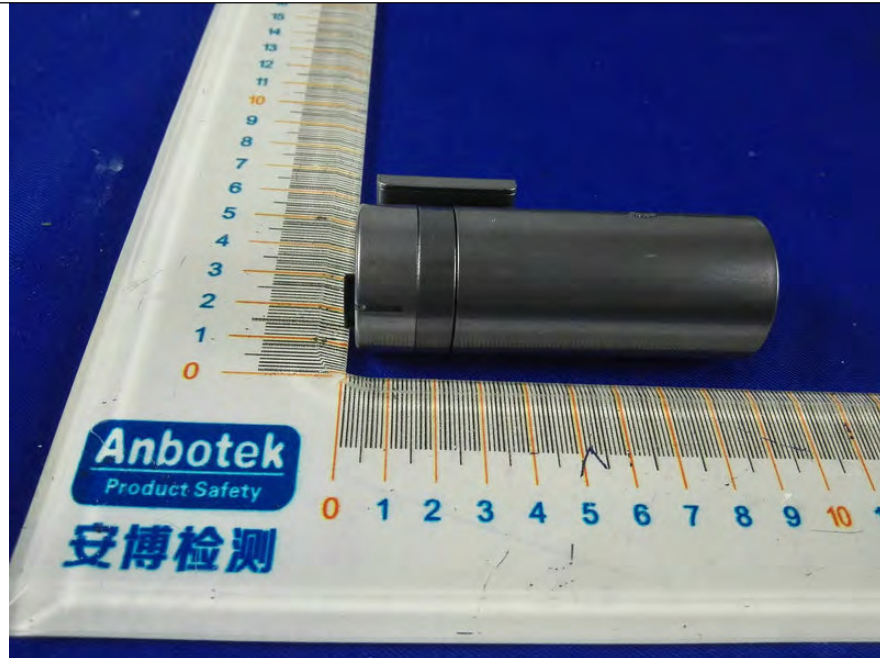
3. Figure
The EUT-Bottom View



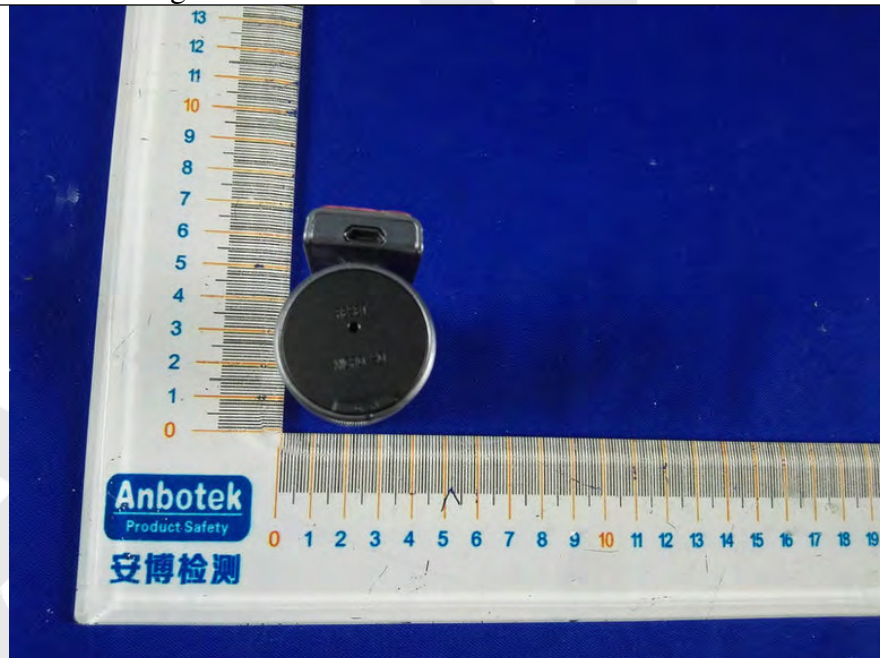
4. Figure
The EUT-Front View



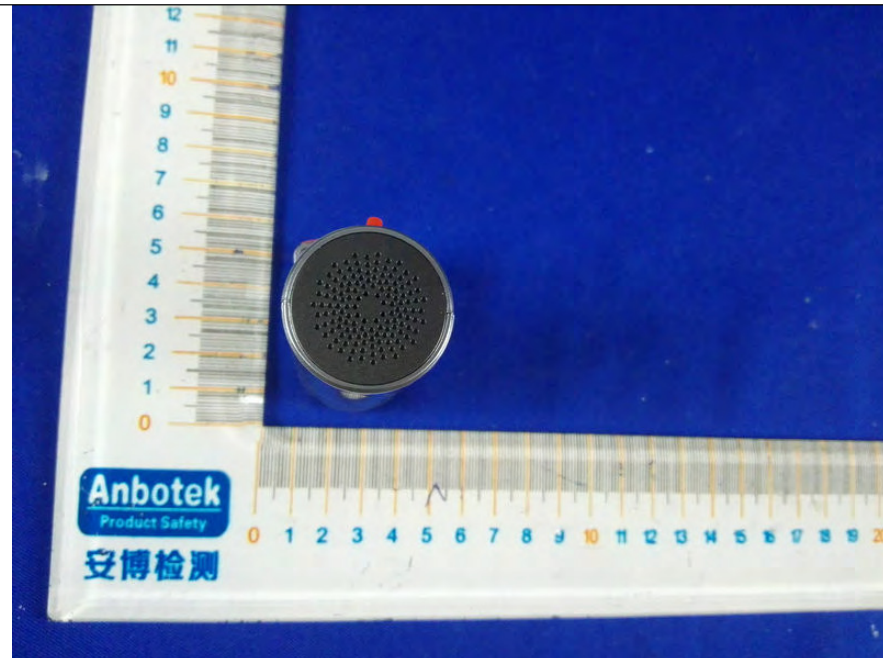
5. Figure
The EUT-Back View



6. Figure
The EUT-Right View

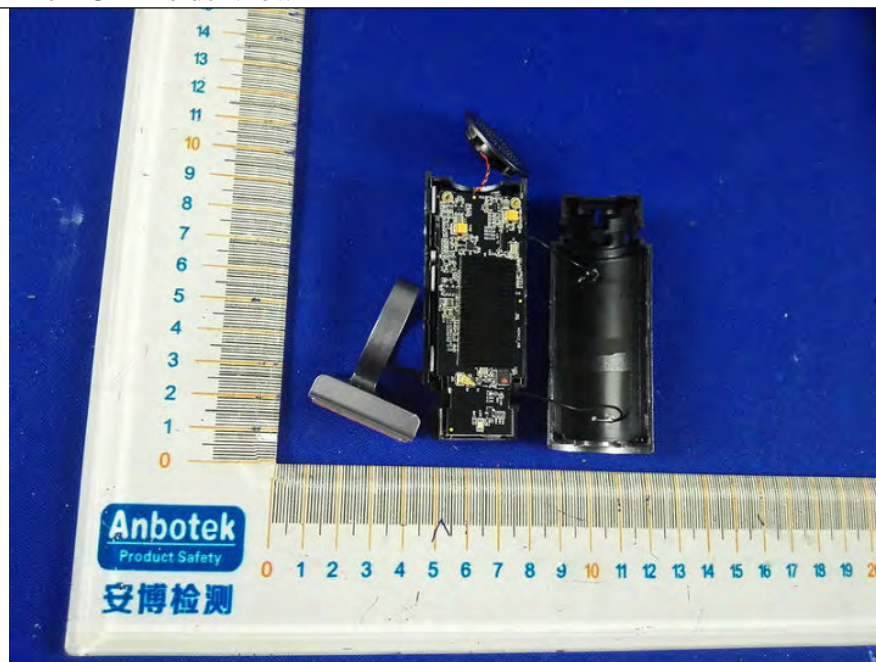


7. Figure
The EUT-Left View

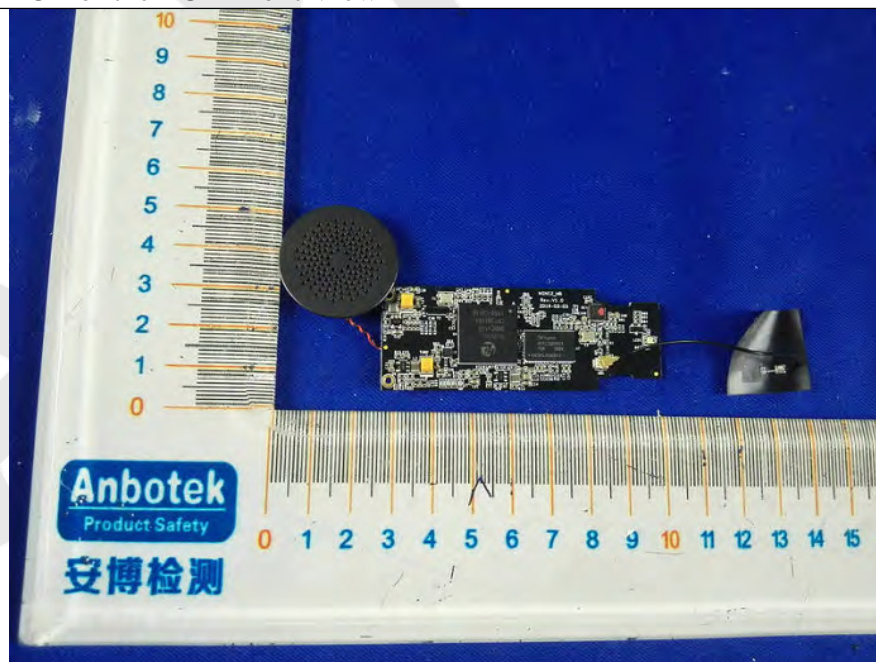


APPENDIX II (INTERNAL PHOTOS)

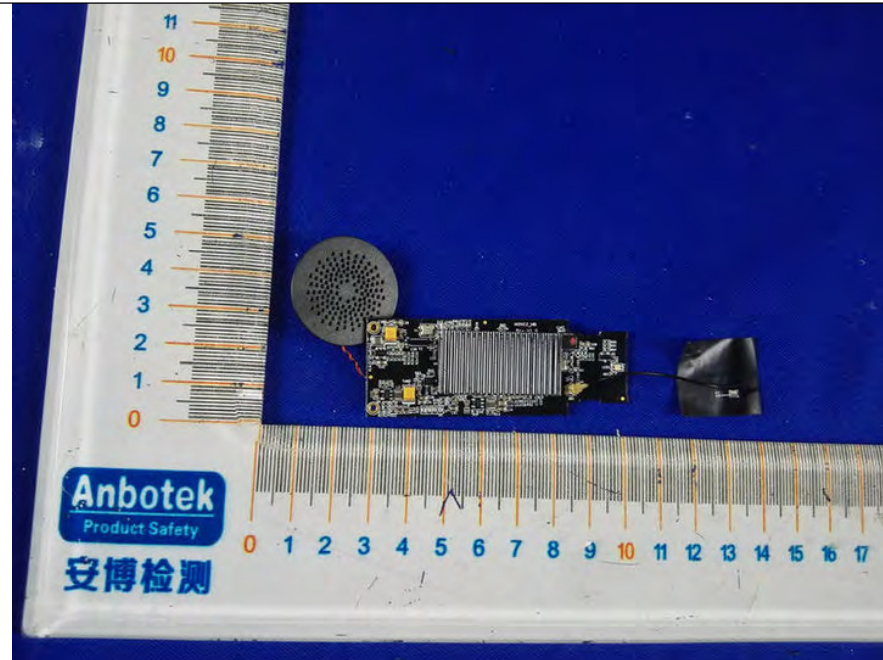
1. Figure
The EUT-Inside View



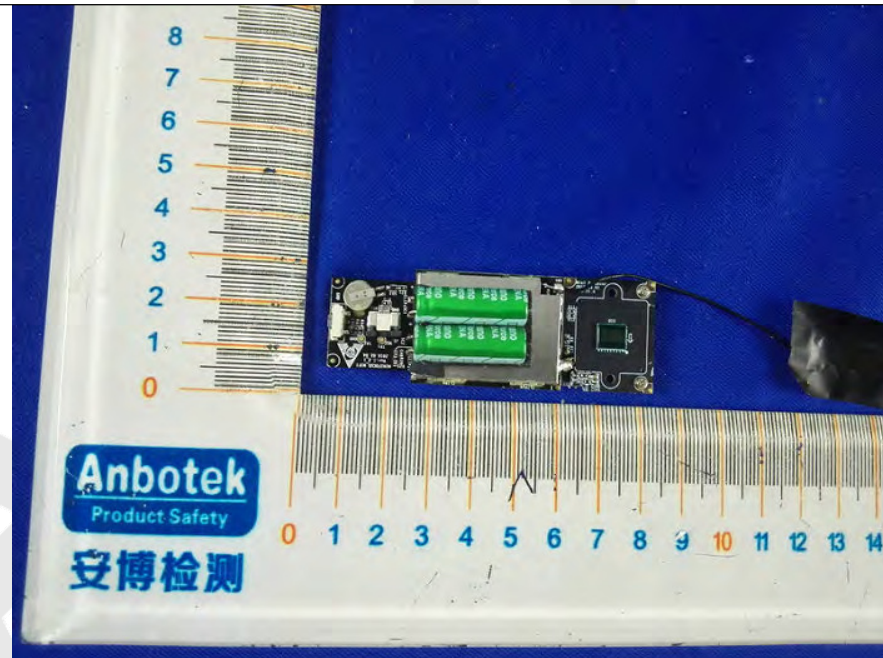
2. Figure
PCB of the EUT-Front View



3. Figure
PCB of the EUT-Back View



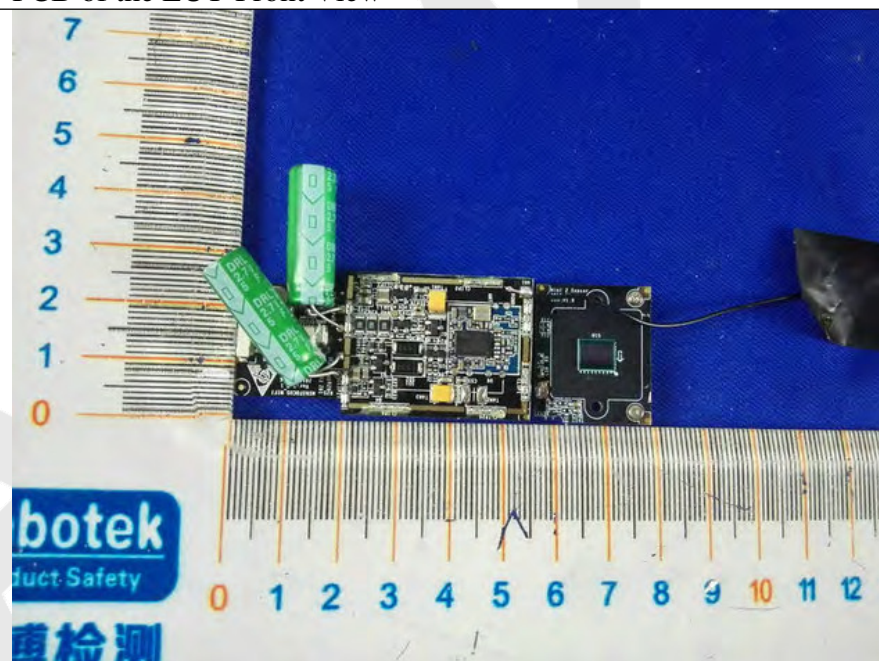
4. Figure
PCB of the EUT-Front View



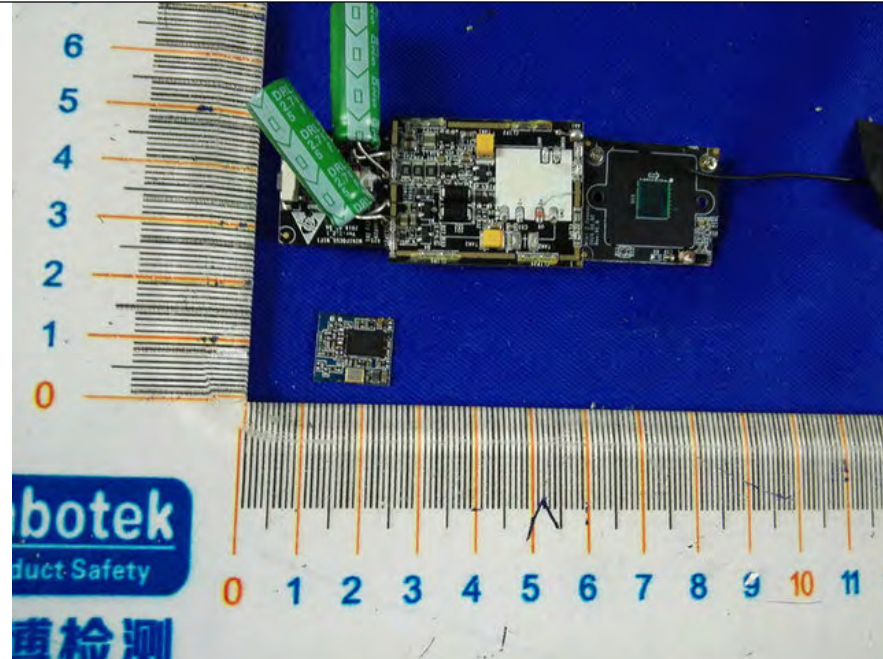
5. Figure
PCB of the EUT-Back View



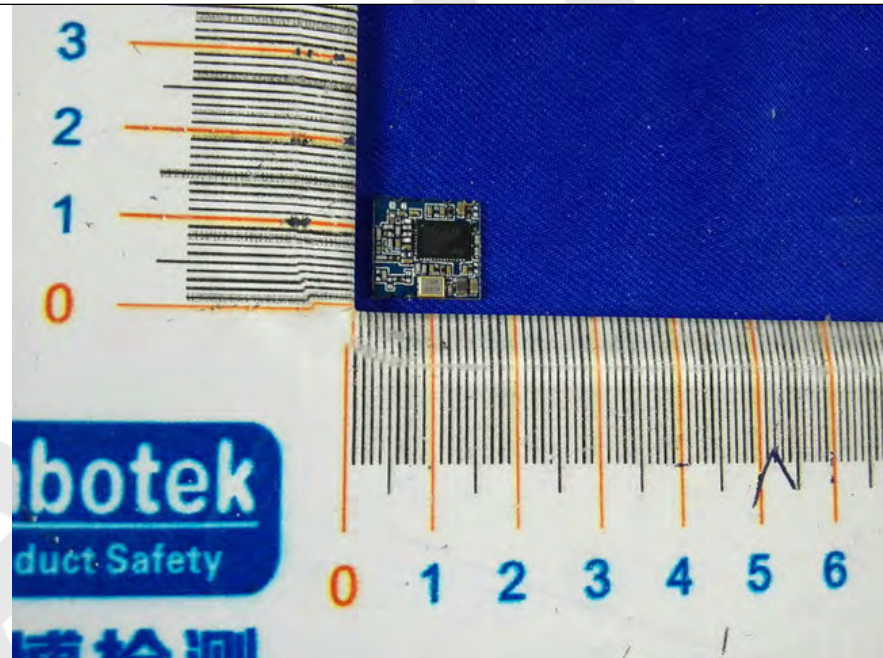
6. Figure
PCB of the EUT-Front View



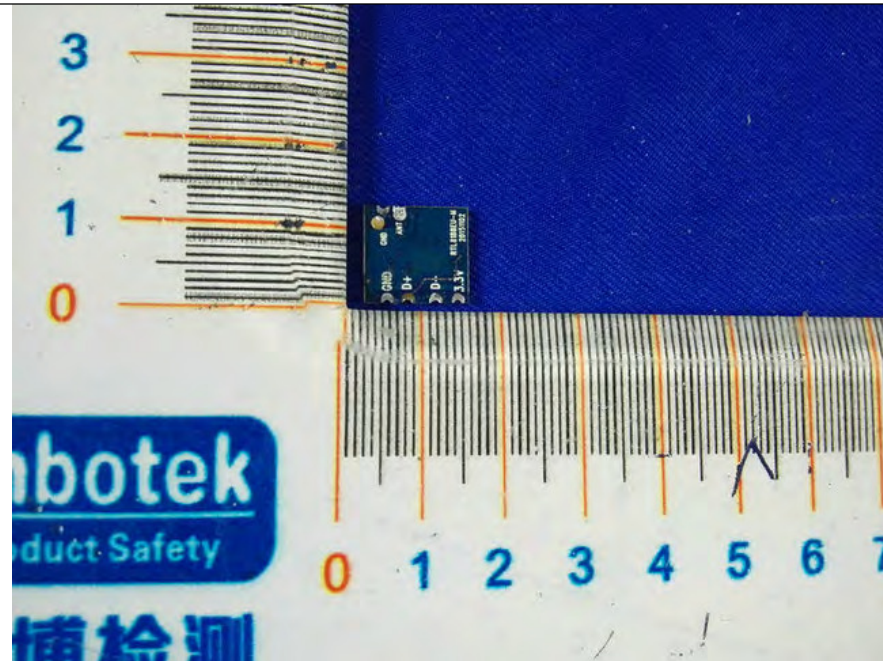
7. Figure
PCB of the EUT-Back View



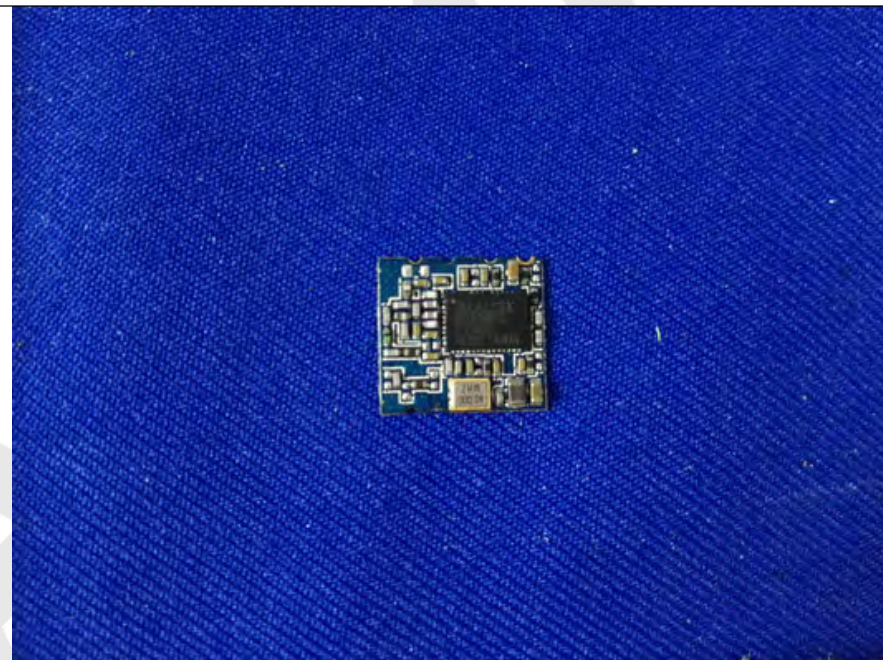
8. Figure
PCB of the EUT-Front View



9. Figure
PCB of the EUT-Back View



10. Figure
PCB of the EUT-Front View



11. Figure
PCB of the EUT-Back View

