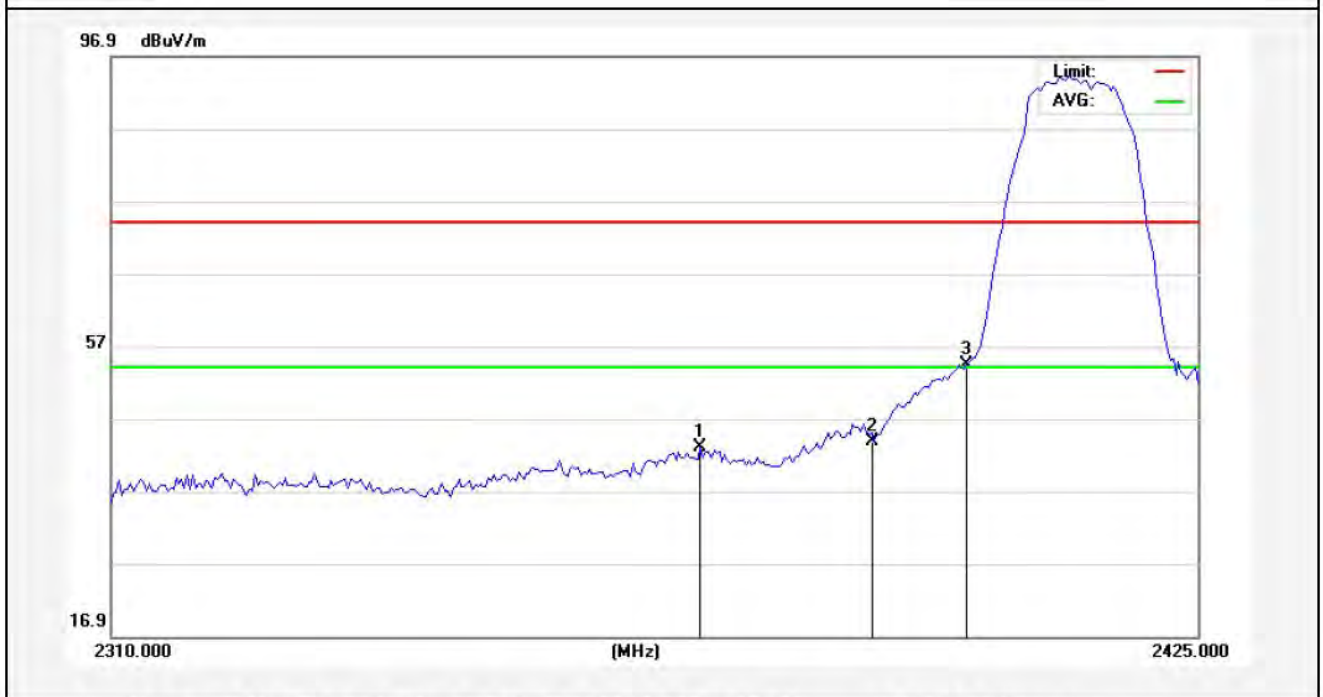


ANT B

Test Mode: 802.11b

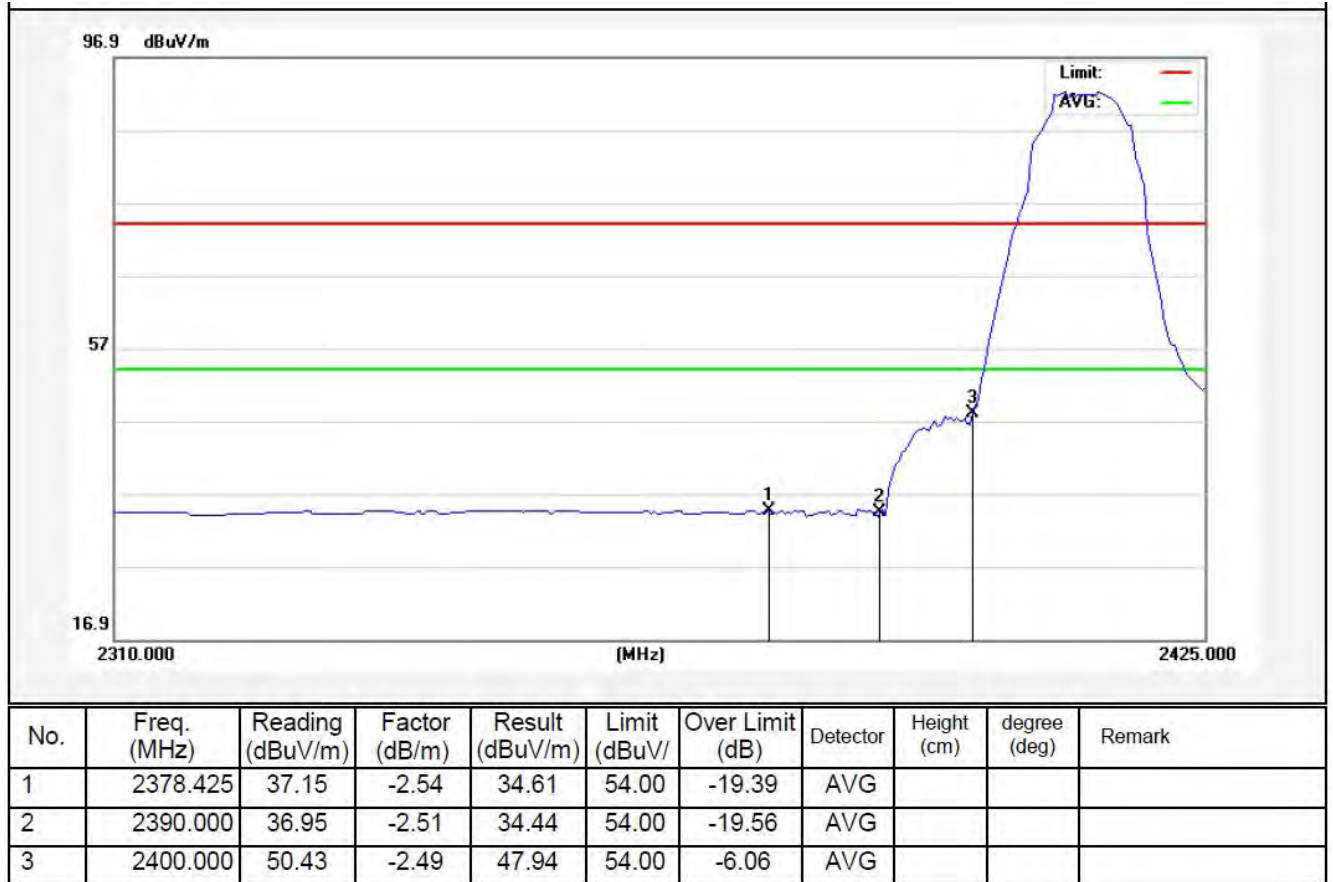
2412MHz

Horizontal-PEAK:

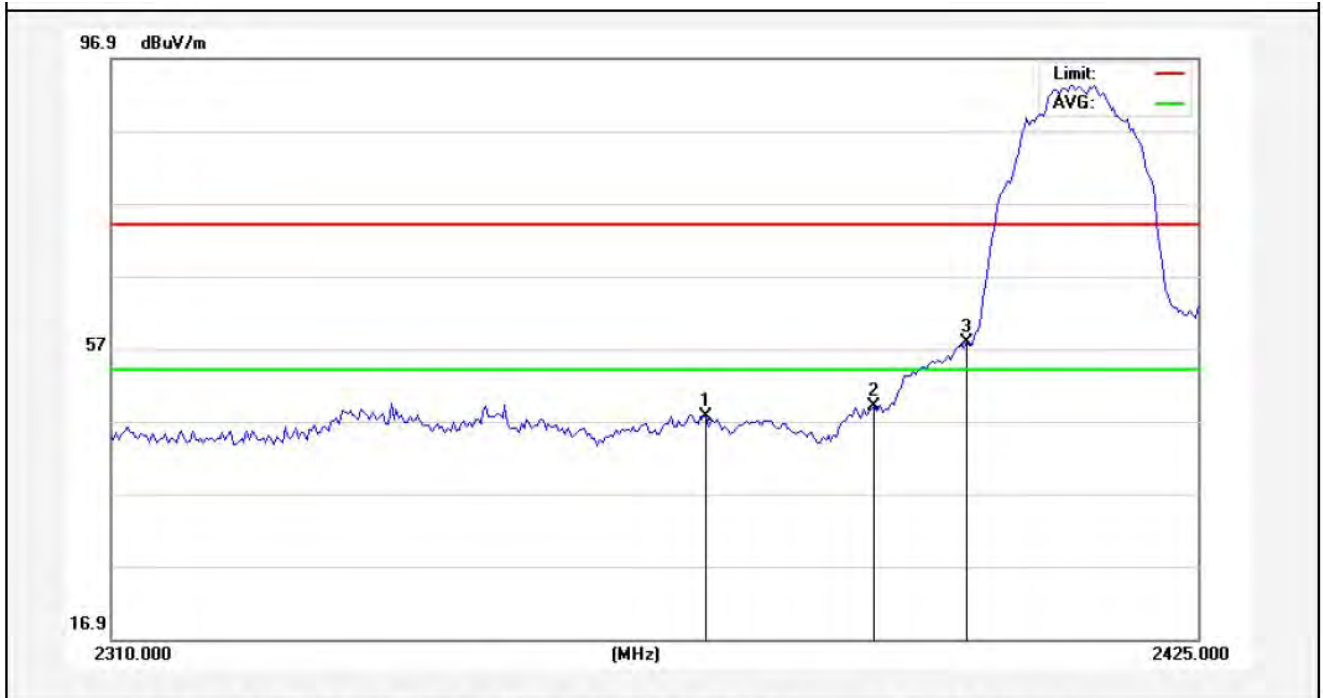


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2371.813	45.54	-2.55	42.99	74.00	-31.01	peak			
2	2390.000	46.38	-2.51	43.87	74.00	-30.13	peak			
3	2400.000	56.82	-2.49	54.33	74.00	-19.67	peak			

Horizontal-AV:

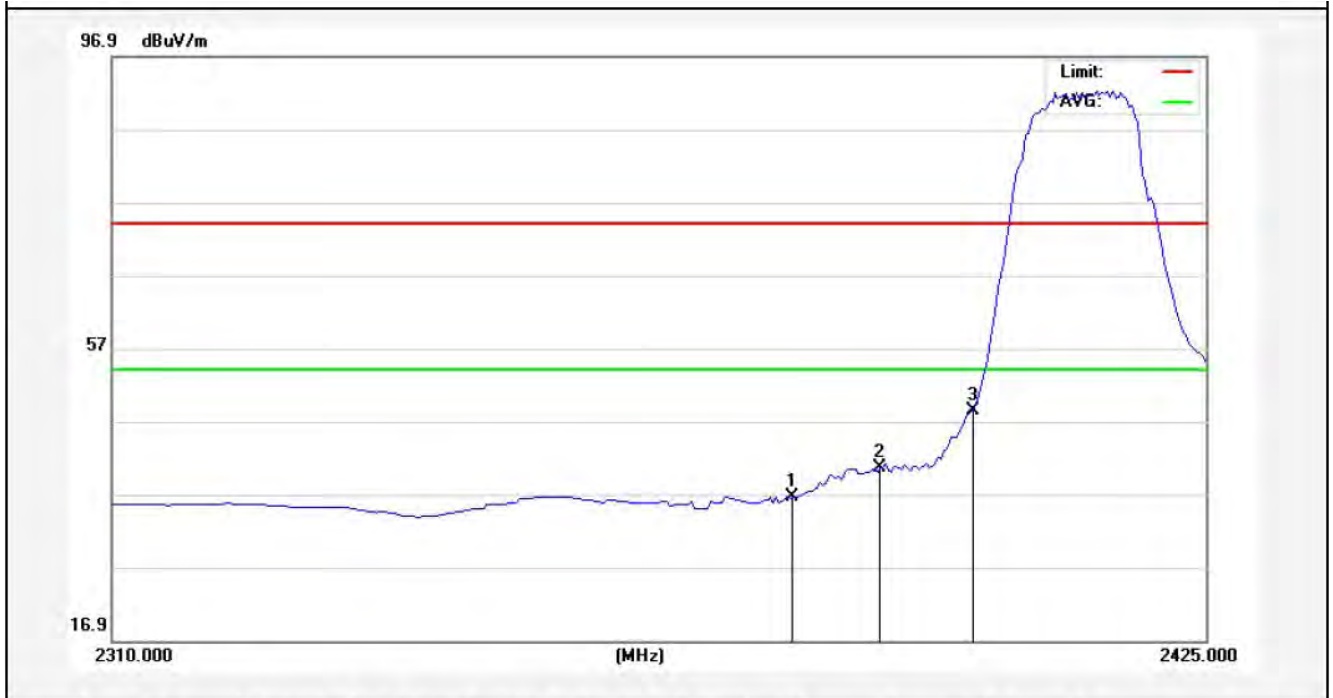


Test Mode: 802.11b  
2412MHz  
Vertical-PEAK:



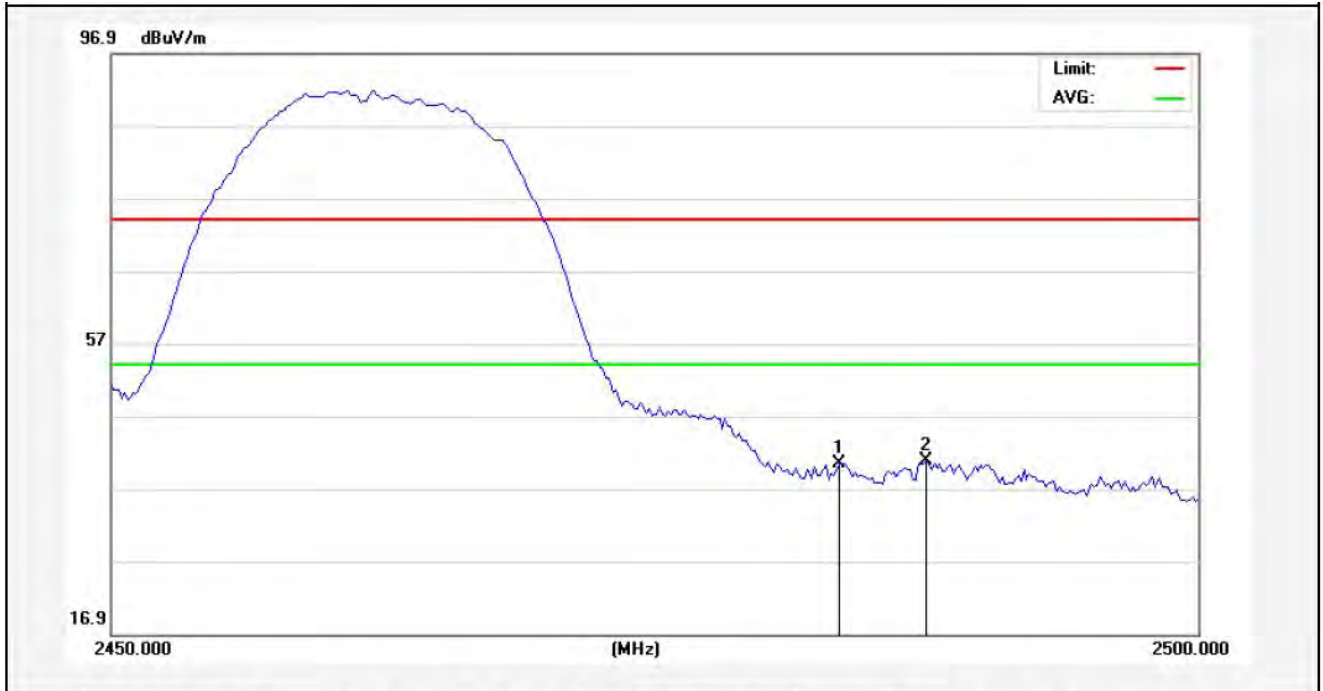
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2372.387	50.21	-2.55	47.66	74.00	-26.34	peak			
2	2390.000	51.61	-2.51	49.10	74.00	-24.90	peak			
3	2400.000	60.31	-2.49	57.82	74.00	-16.18	peak			

Vertical-AV:



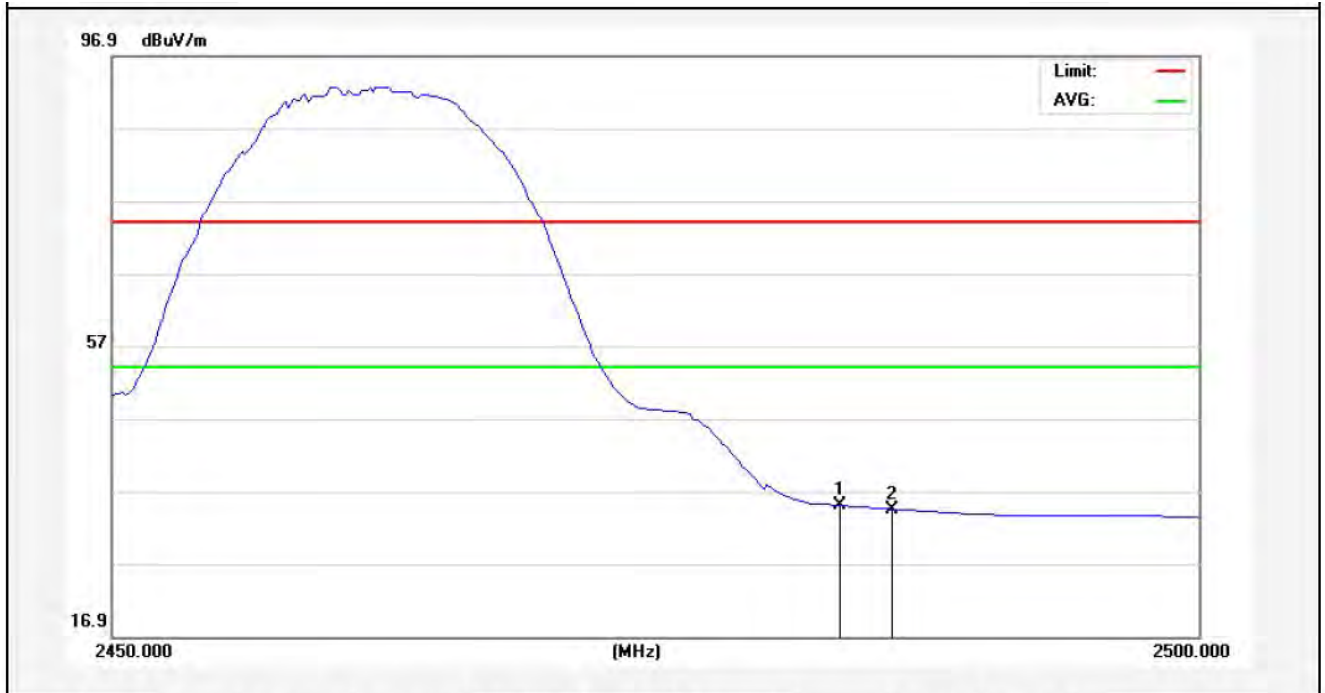
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2381.012	39.15	-2.53	36.62	54.00	-17.38	AVG			
2	2390.000	43.14	-2.51	40.63	54.00	-13.37	AVG			
3	2400.000	50.96	-2.49	48.47	54.00	-5.53	AVG			

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	42.80	-2.31	40.49	74.00	-33.51	peak			
2	2487.500	43.03	-2.30	40.73	74.00	-33.27	peak			

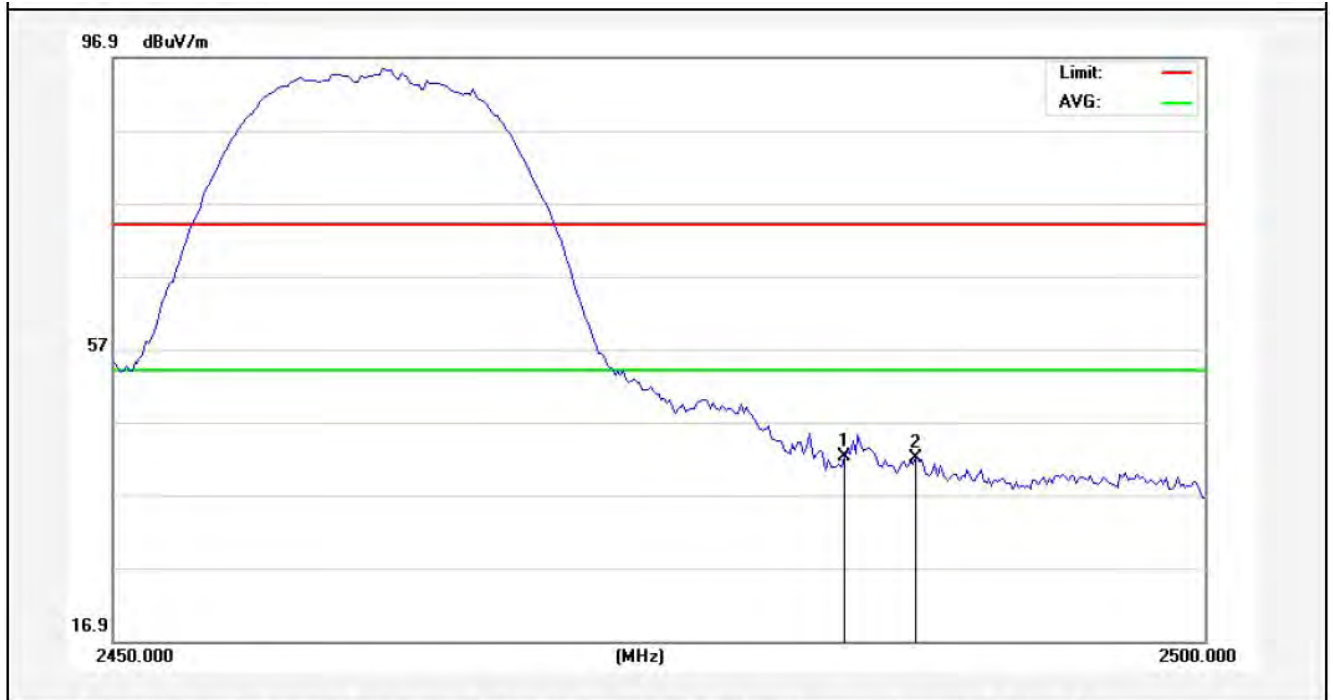
Horizontal-AV:



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	37.26	-2.31	34.95	54.00	-19.05	AVG			
2	2485.875	36.77	-2.30	34.47	54.00	-19.53	AVG			

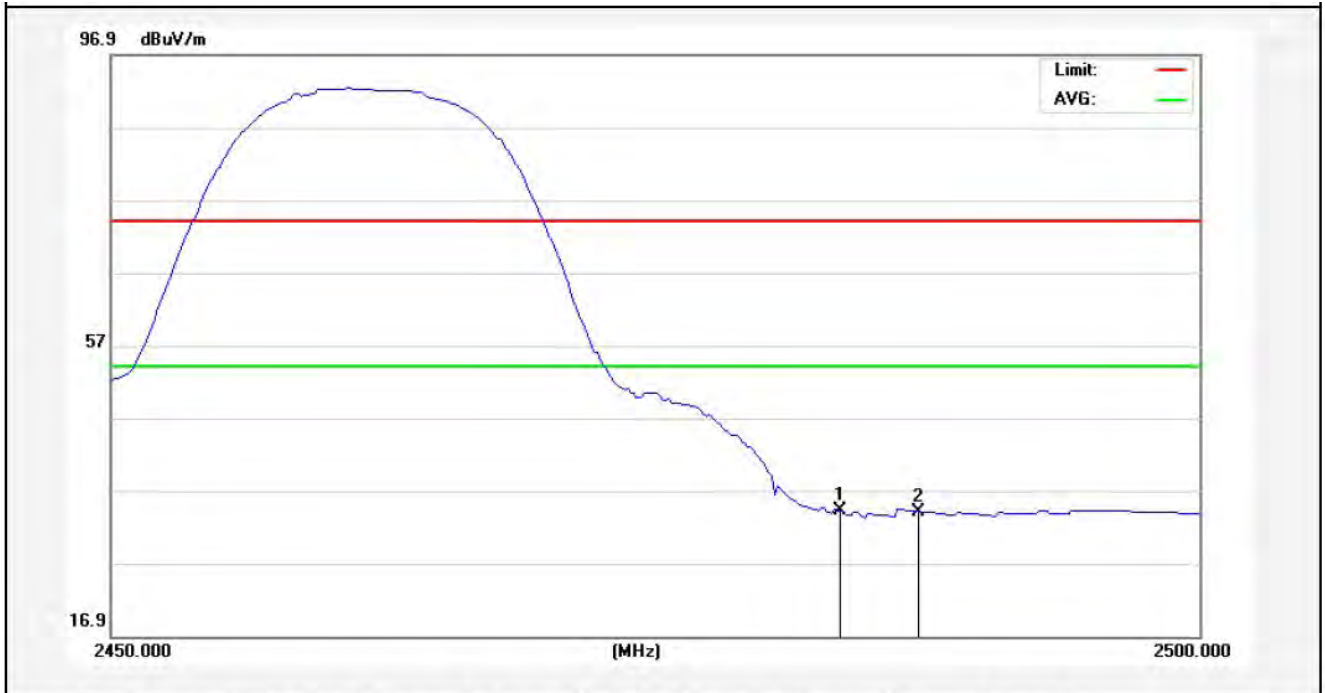


Test Mode: 802.11b  
2462MHz  
Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	44.53	-2.31	42.22	74.00	-31.78	peak			
2	2486.750	44.35	-2.30	42.05	74.00	-31.95	peak			

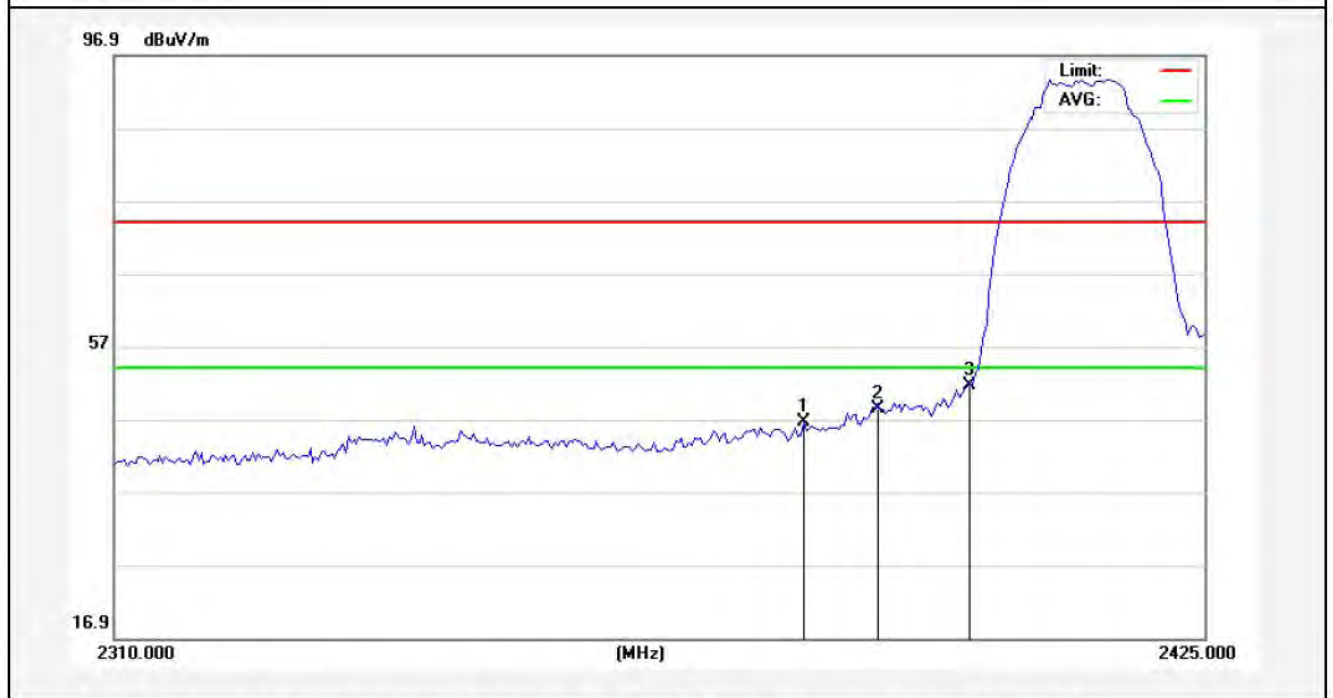
Vertical-AV:



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	36.58	-2.31	34.27	54.00	-19.73	AVG			
2	2487.125	36.39	-2.30	34.09	54.00	-19.91	AVG			

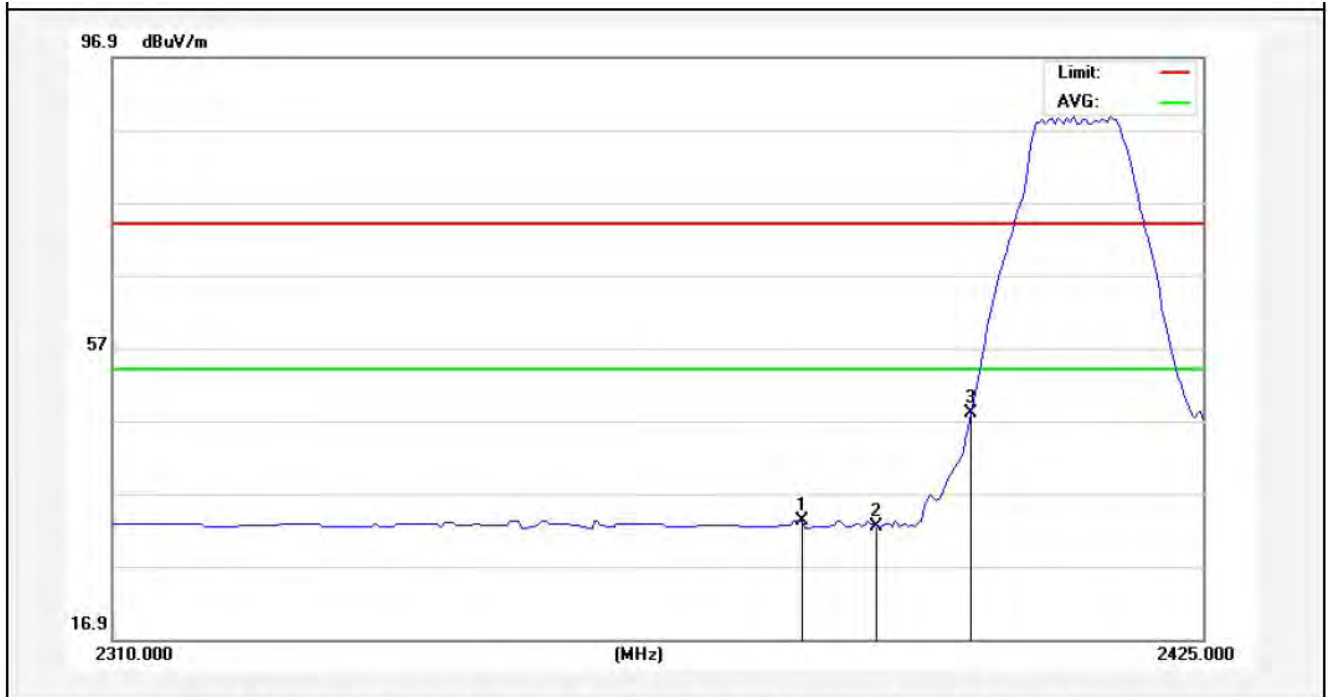


Test Mode: 802.11g  
2412MHz  
Horizontal-PEAK:



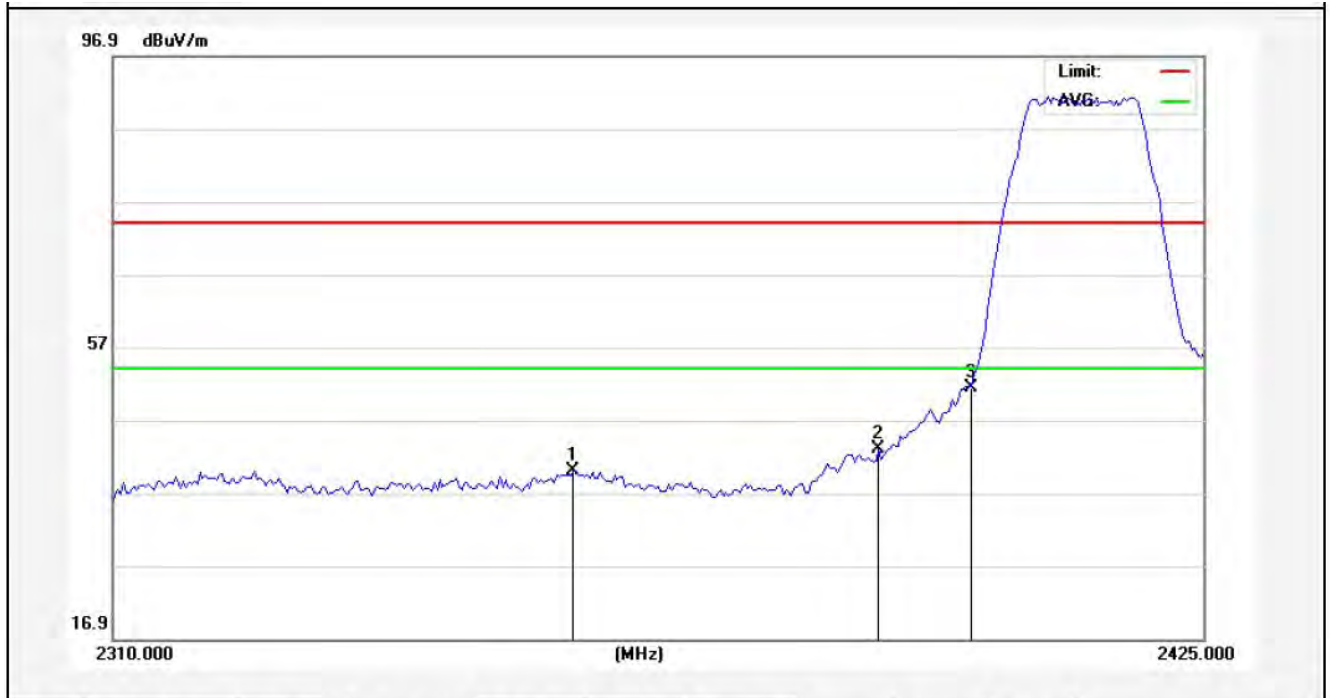
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2382.162	49.05	-2.53	46.52	74.00	-27.48	peak			
2	2390.000	50.86	-2.51	48.35	74.00	-25.65	peak			
3	2400.000	54.16	-2.49	51.67	74.00	-22.33	peak			

Horizontal-AV:



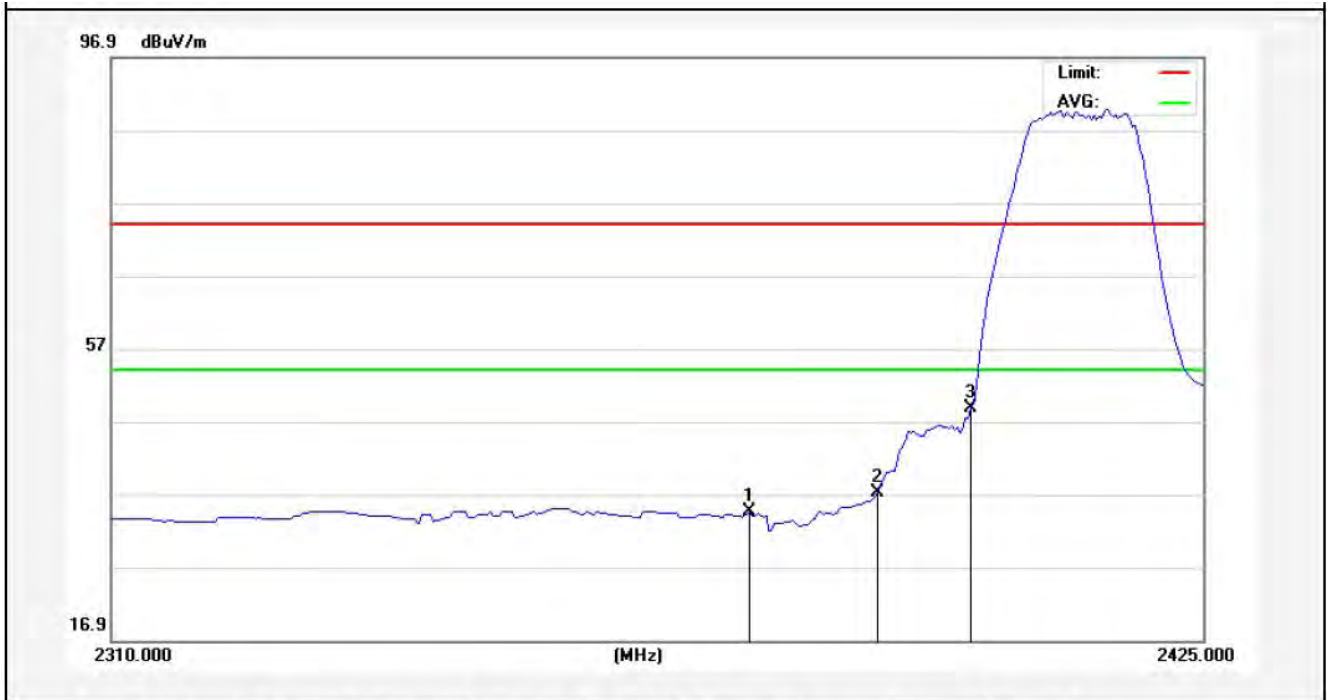
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2382.162	35.72	-2.53	33.19	54.00	-20.81	AVG			
2	2390.000	34.93	-2.51	32.42	54.00	-21.58	AVG			
3	2400.000	50.41	-2.49	47.92	54.00	-6.08	AVG			

Test Mode: 802.11g  
2412MHz  
Vertical-PEAK:



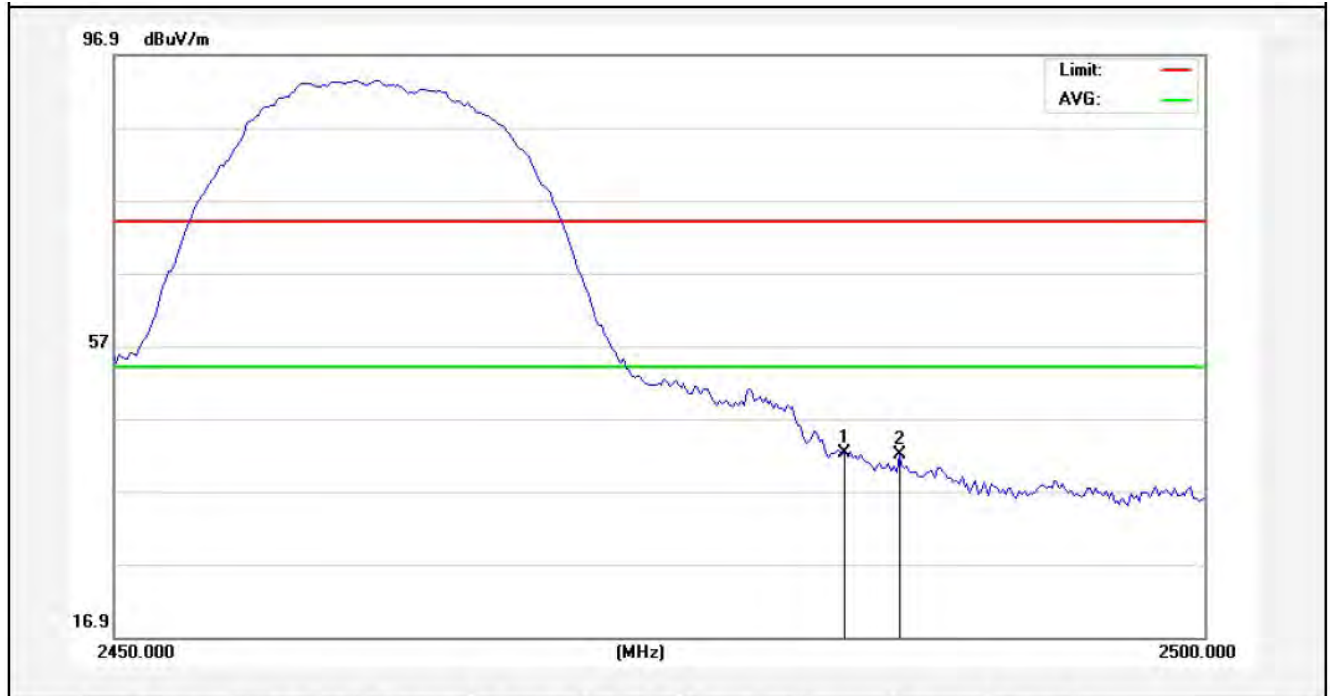
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2358.012	42.53	-2.59	39.94	74.00	-34.06	peak			
2	2390.000	45.55	-2.51	43.04	74.00	-30.96	peak			
3	2400.000	53.99	-2.49	51.50	74.00	-22.50	peak			

Vertical-AV:



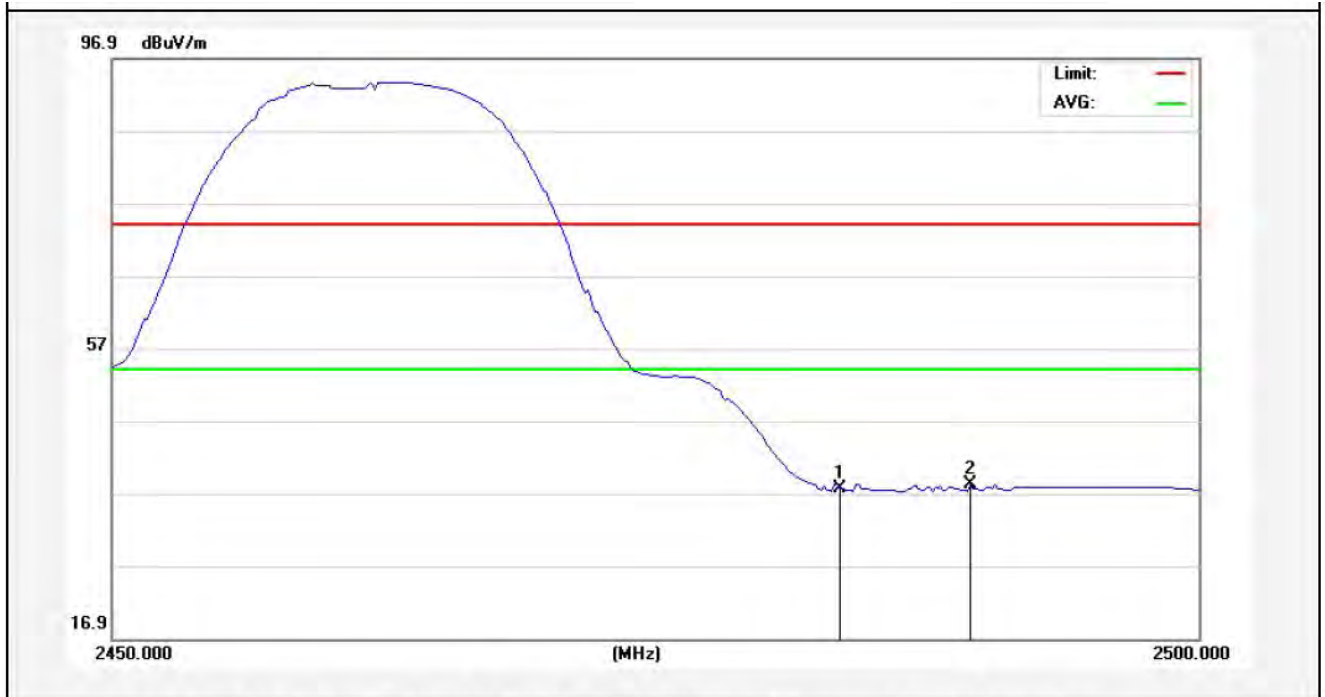
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2376.700	37.14	-2.54	34.60	54.00	-19.40	AVG			
2	2390.000	39.68	-2.51	37.17	54.00	-16.83	AVG			
3	2400.000	51.29	-2.49	48.80	54.00	-5.20	AVG			

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	44.44	-2.31	42.13	74.00	-31.87	peak			
2	2486.000	44.31	-2.30	42.01	74.00	-31.99	peak			

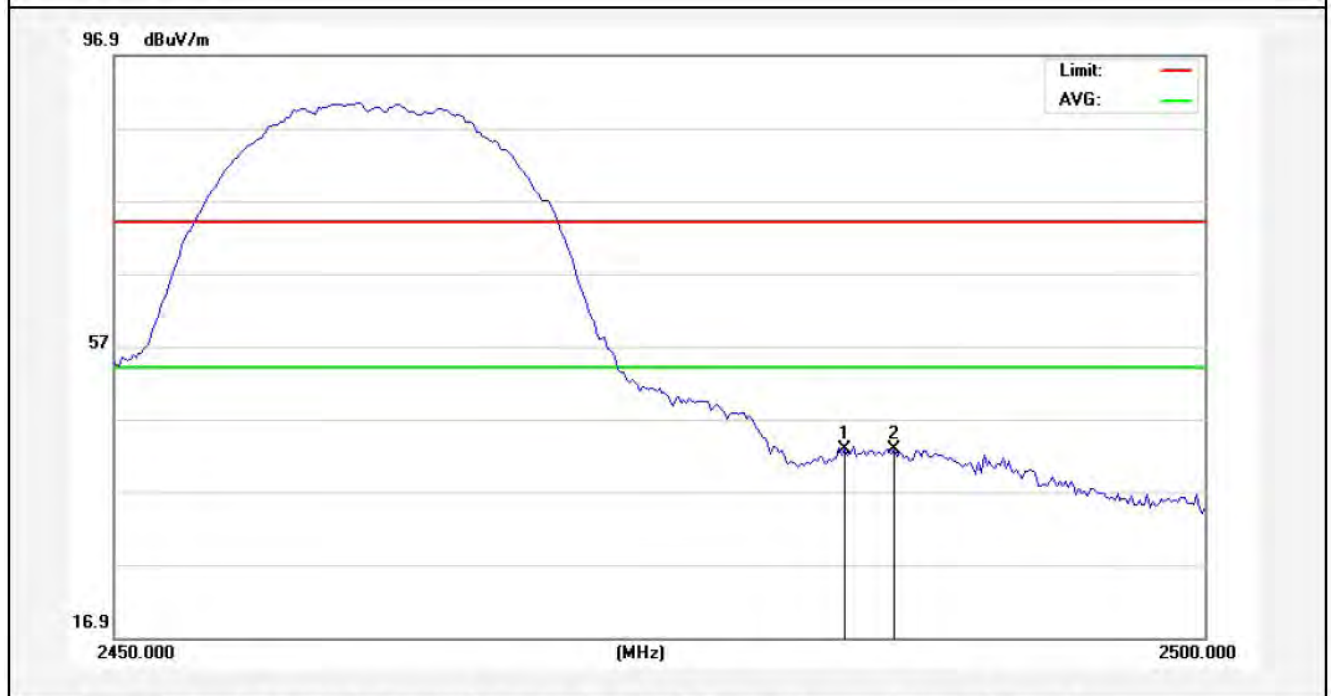
Horizontal-AV:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	39.88	-2.31	37.57	54.00	-16.43	AVG			
2	2489.500	40.45	-2.29	38.16	54.00	-15.84	AVG			

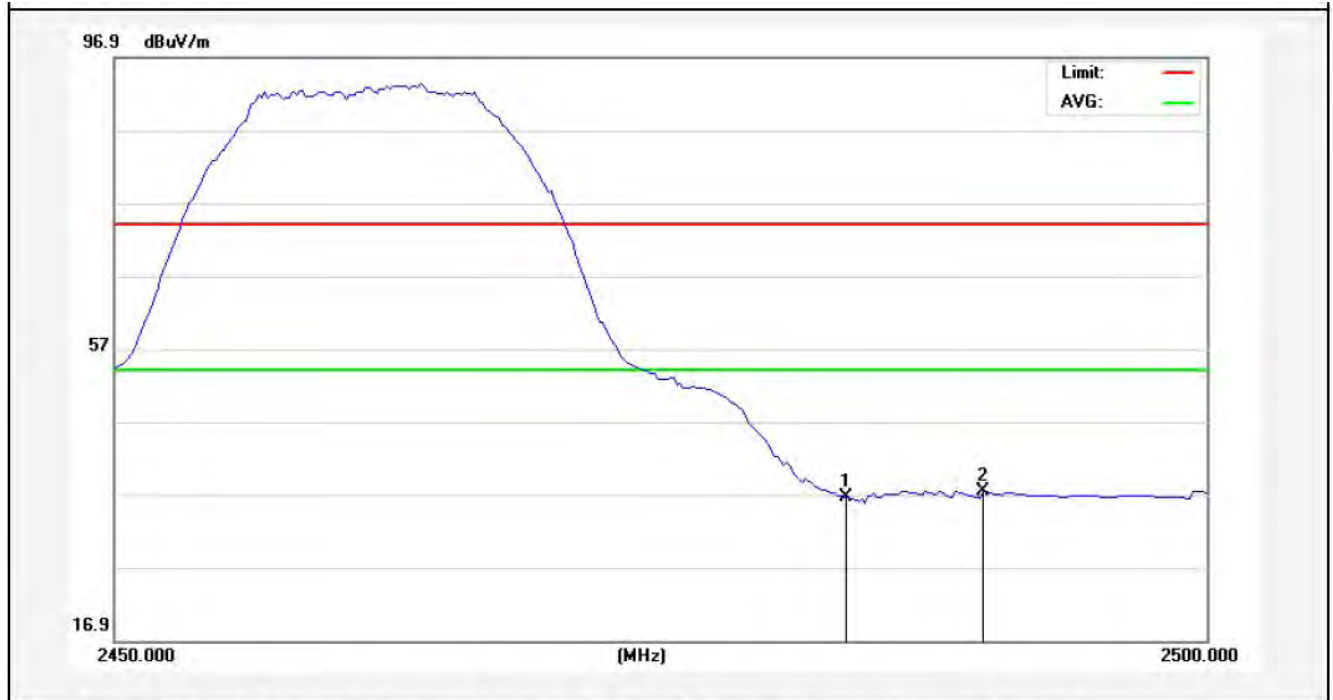


Test Mode: 802.11g  
2462MHz  
Vertical-PEAK:



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	45.07	-2.31	42.76	74.00	-31.24	peak			
2	2485.750	45.10	-2.30	42.80	74.00	-31.20	peak			

Vertical-AV:

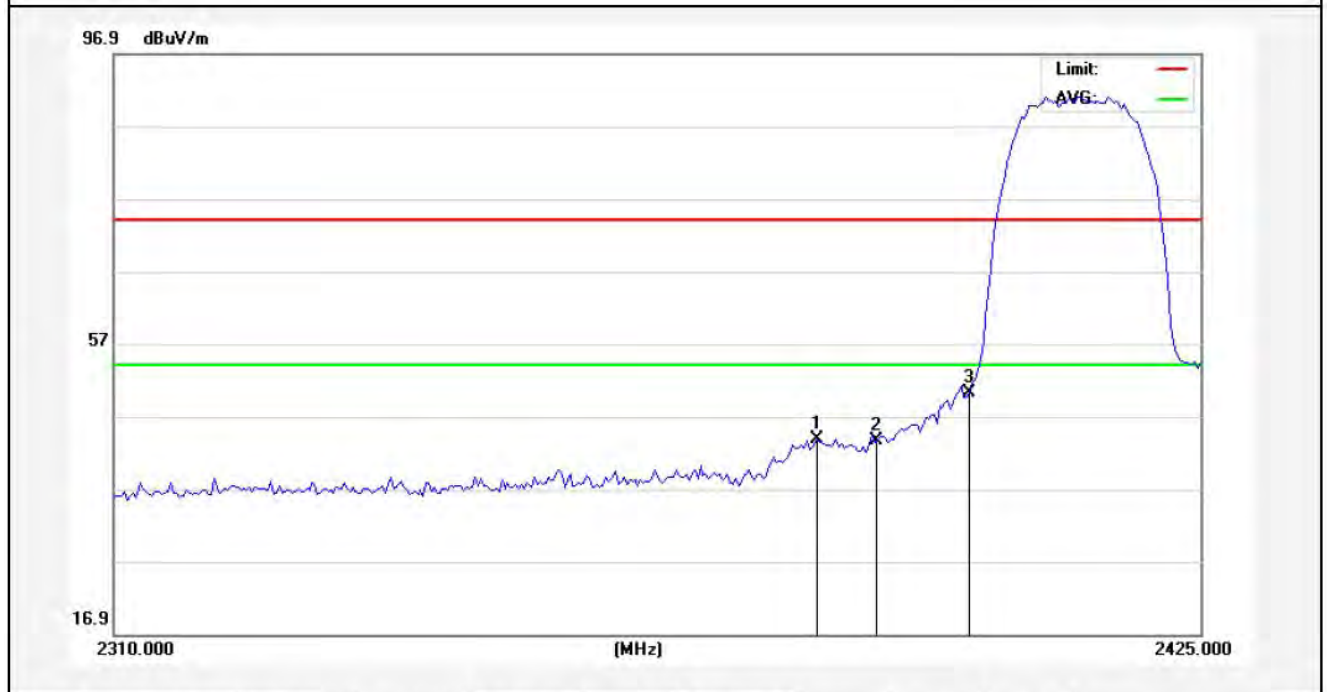


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	38.88	-2.31	36.57	54.00	-17.43	AVG			
2	2489.750	39.68	-2.29	37.39	54.00	-16.61	AVG			

Test Mode: 802.11n (HT20)

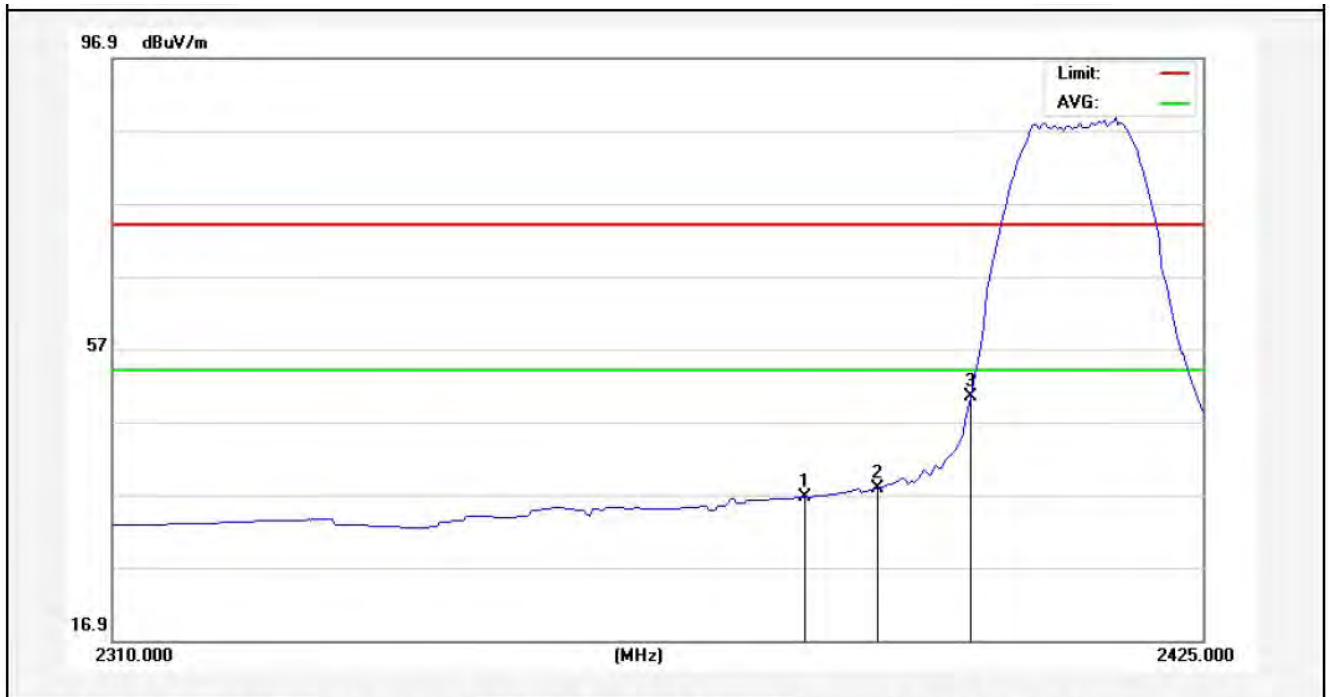
2412MHz

Horizontal-PEAK:



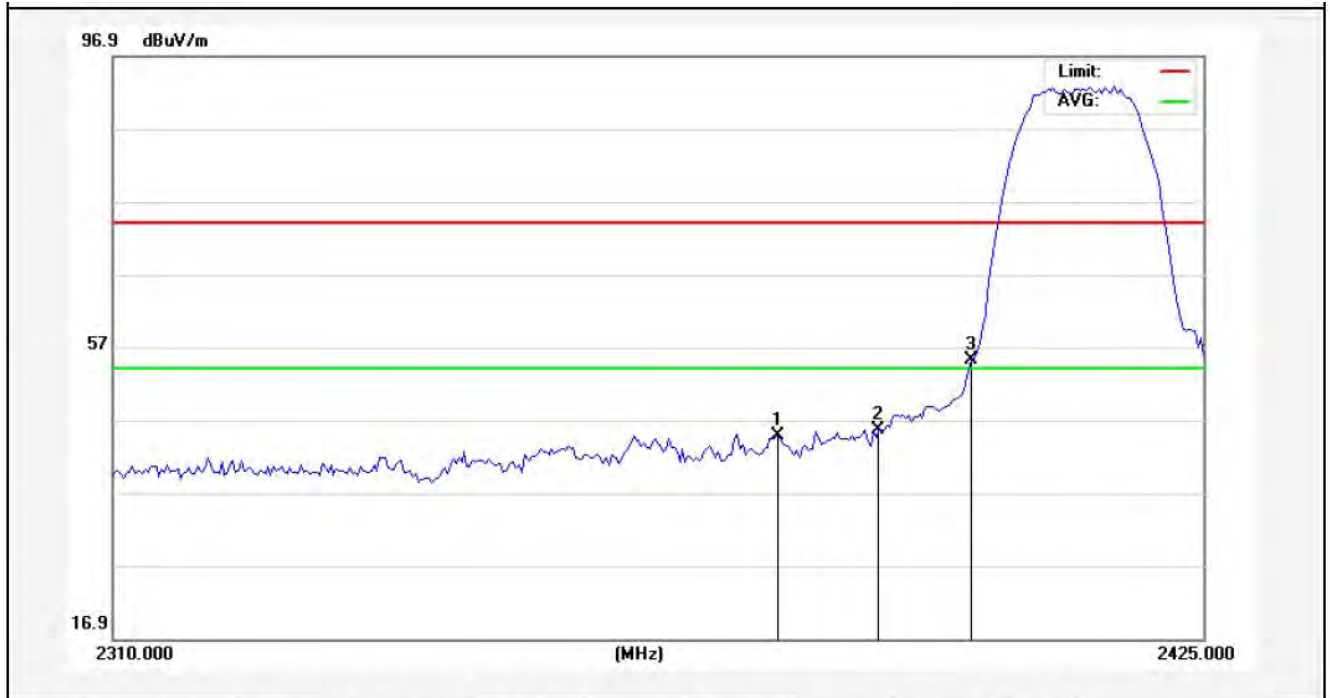
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2383.887	46.29	-2.53	43.76	74.00	-30.24	peak			
2	2390.000	46.13	-2.51	43.62	74.00	-30.38	peak			
3	2400.000	52.75	-2.49	50.26	74.00	-23.74	peak			

Horizontal-AV:



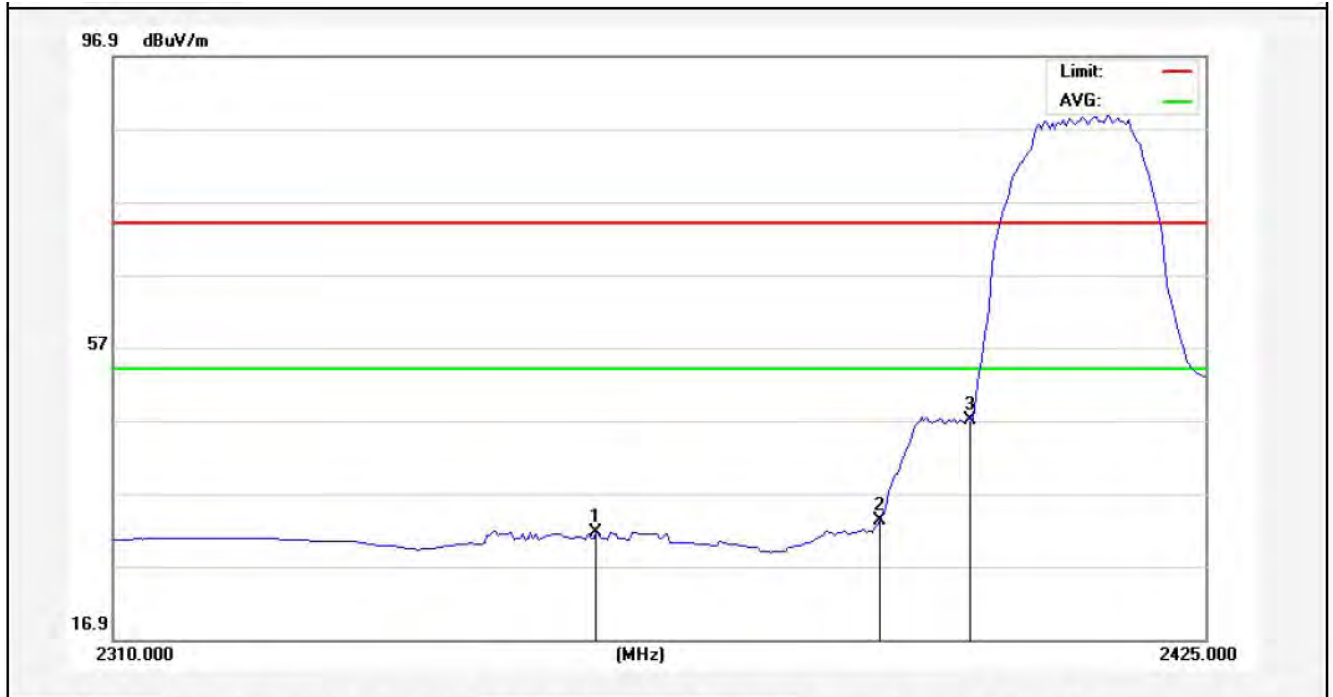
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2382.450	39.15	-2.53	36.62	54.00	-17.38	AVG			
2	2390.000	40.33	-2.51	37.82	54.00	-16.18	AVG			
3	2400.000	52.89	-2.49	50.40	54.00	-3.60	AVG			

Test Mode: 802.11n (HT20)  
2412MHz  
Vertical-PEAK:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2379.575	47.35	-2.54	44.81	74.00	-29.19	peak			
2	2390.000	48.13	-2.51	45.62	74.00	-28.38	peak			
3	2400.000	57.73	-2.49	55.24	74.00	-18.76	peak			

Vertical-AV:



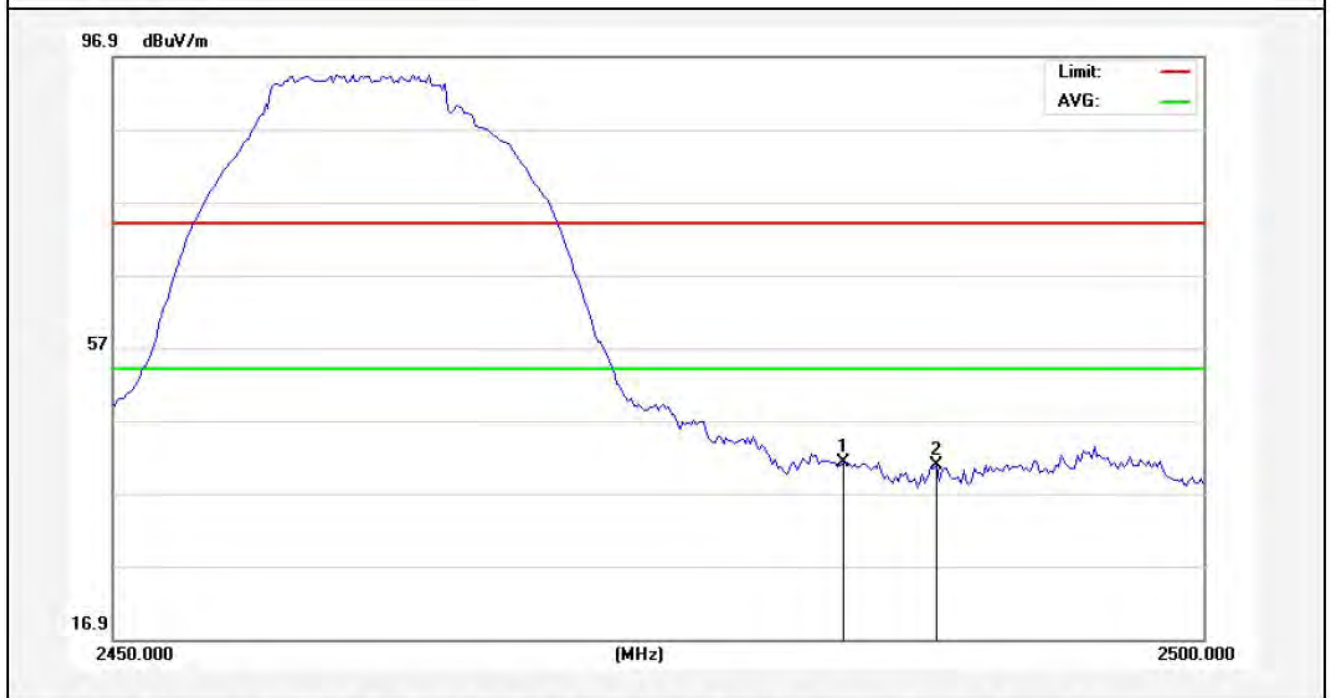
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2360.313	34.16	-2.58	31.58	54.00	-22.42	AVG			
2	2390.000	35.80	-2.51	33.29	54.00	-20.71	AVG			
3	2400.000	49.50	-2.49	47.01	54.00	-6.99	AVG			



Test Mode: 802.11n (HT20)

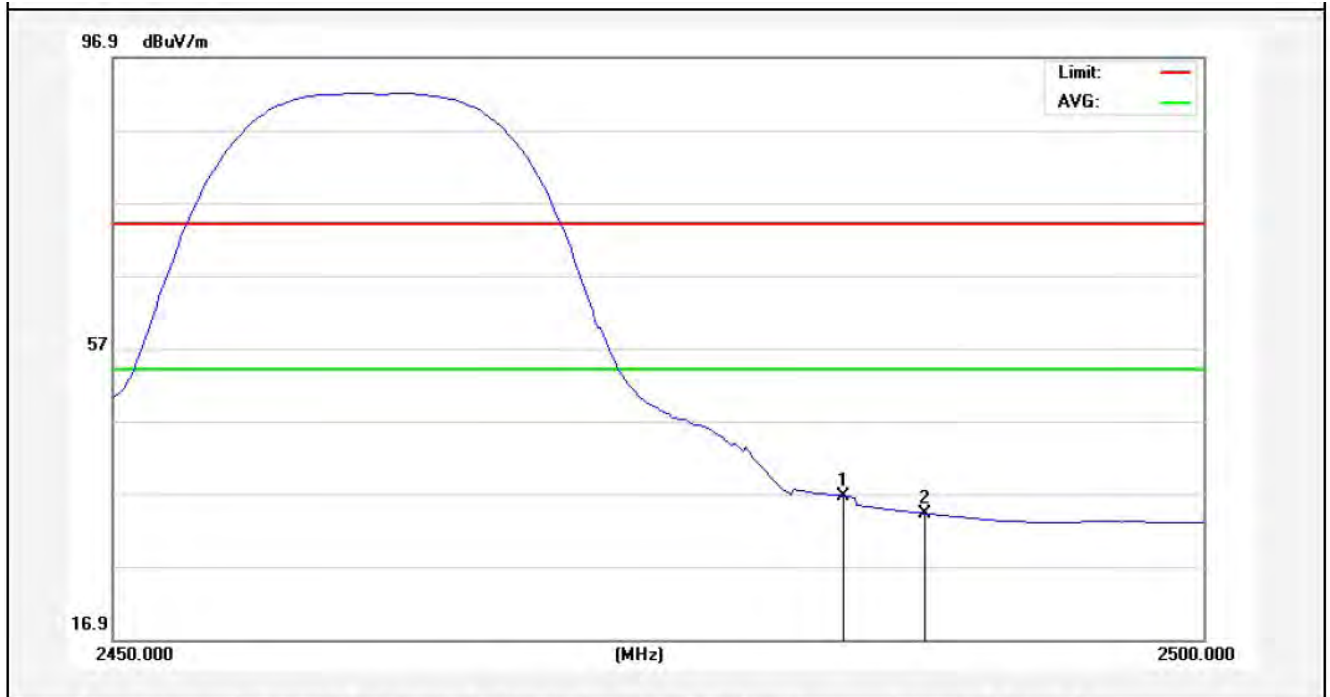
2462MHz

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	43.59	-2.31	41.28	74.00	-32.72	peak			
2	2487.750	43.15	-2.30	40.85	74.00	-33.15	peak			

Horizontal-AV:

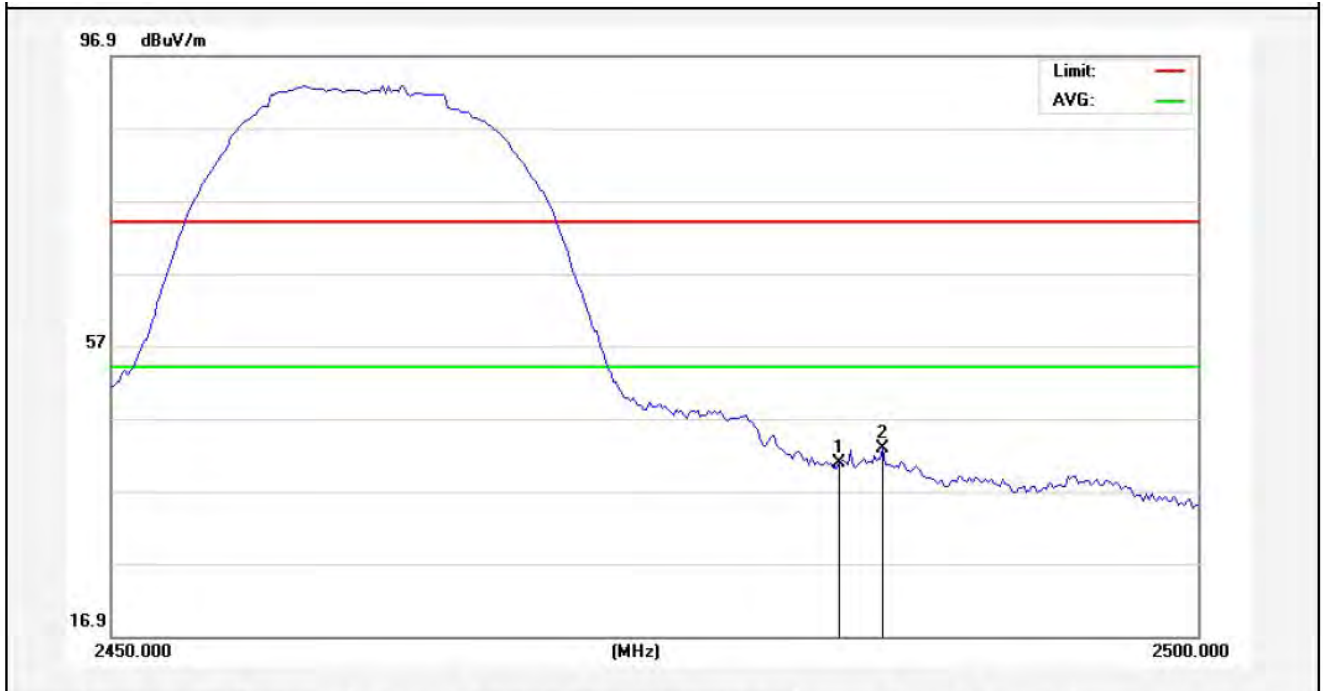


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	38.97	-2.31	36.66	54.00	-17.34	AVG			
2	2487.250	36.55	-2.30	34.25	54.00	-19.75	AVG			

Test Mode: 802.11n (HT20)

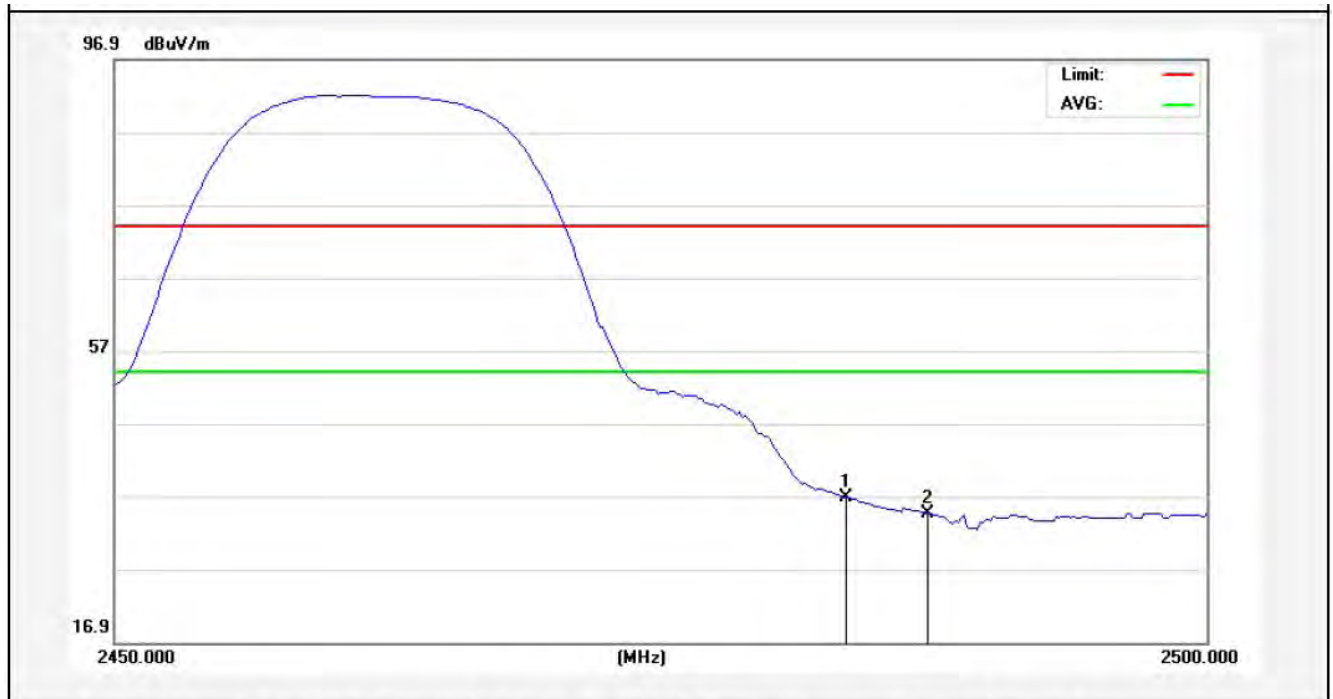
2462MHz

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	43.12	-2.31	40.81	74.00	-33.19	peak			
2	2485.500	45.16	-2.30	42.86	74.00	-31.14	peak			

Vertical-AV:

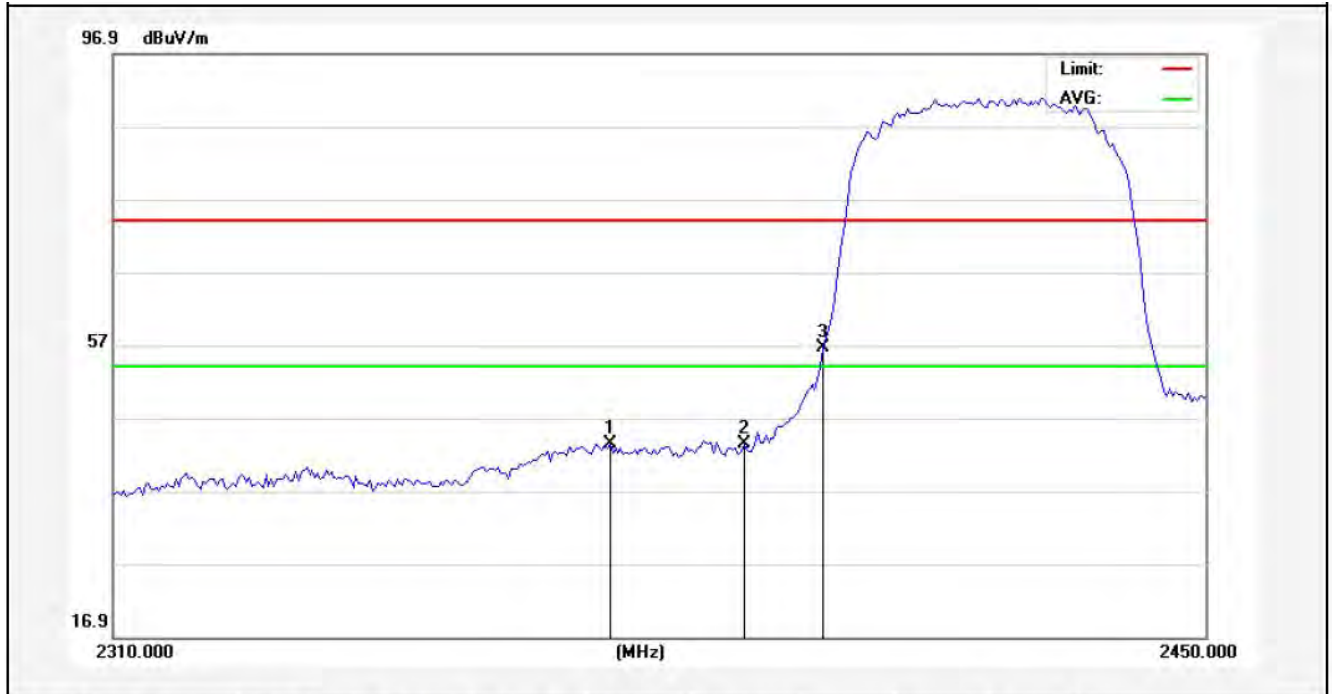


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	39.11	-2.31	36.80	54.00	-17.20	AVG			
2	2487.250	36.93	-2.30	34.63	54.00	-19.37	AVG			

Test Mode: 802.11n (HT40)

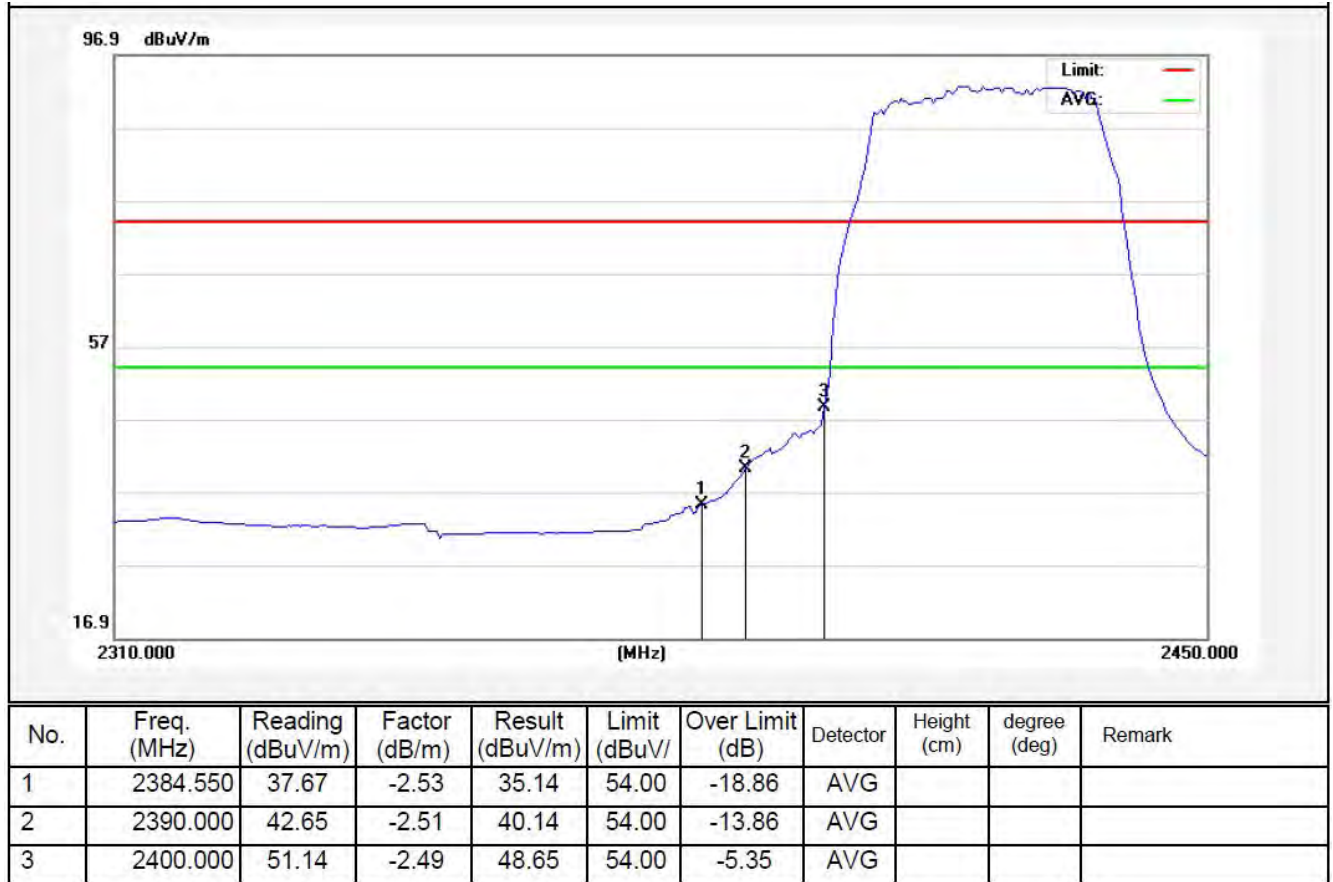
2422MHz

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	2373.000	45.93	-2.55	43.38	74.00	-30.62	peak			
2	2390.000	46.01	-2.51	43.50	74.00	-30.50	peak			
3	2400.000	59.01	-2.49	56.52	74.00	-17.48	peak			

Horizontal-AV:

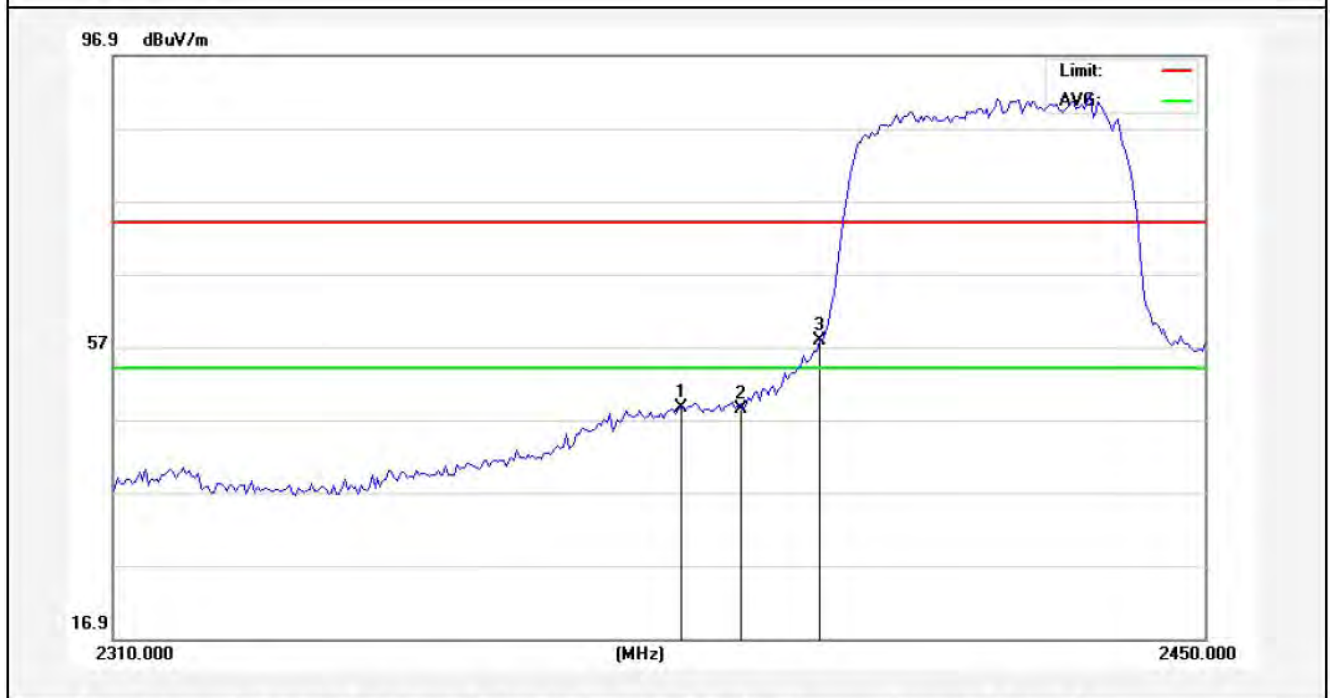




Test Mode: 802.11n (HT40)

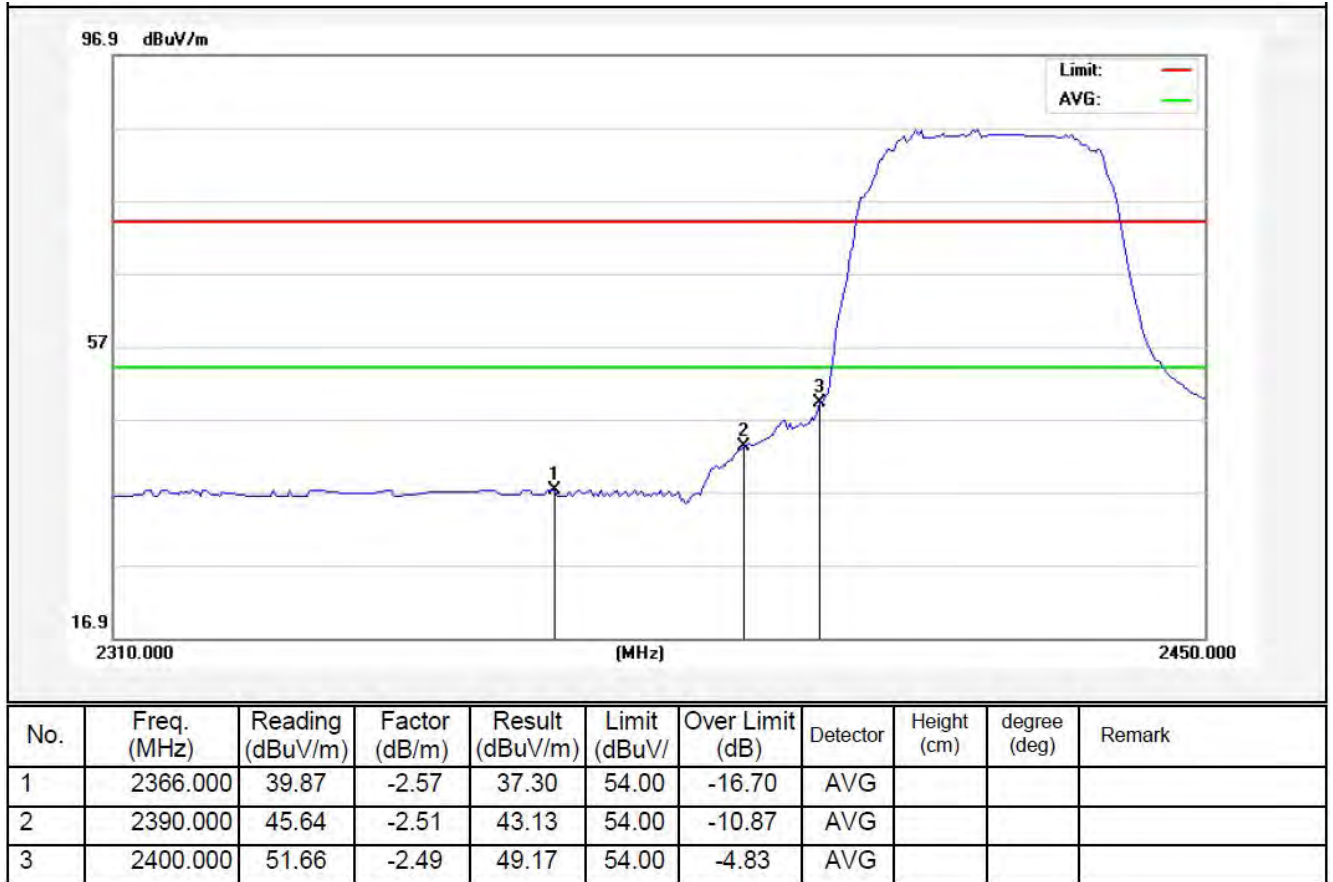
2422MHz

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	2382.100	51.19	-2.53	48.66	74.00	-25.34	peak			
2	2390.000	50.96	-2.51	48.45	74.00	-25.55	peak			
3	2400.000	60.22	-2.49	57.73	74.00	-16.27	peak			

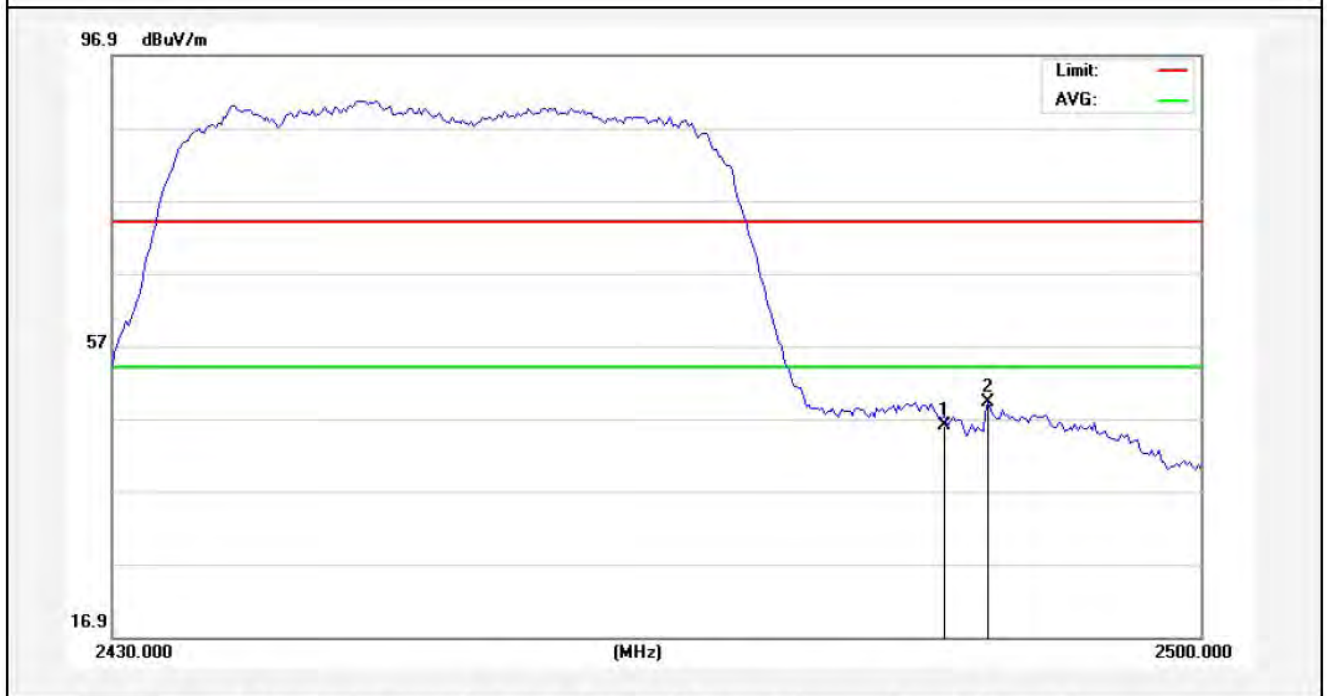
Vertical-AV:



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	48.23	-2.31	45.92	74.00	-28.08	peak			
2	2486.350	51.50	-2.30	49.20	74.00	-24.80	peak			

Horizontal-AV:

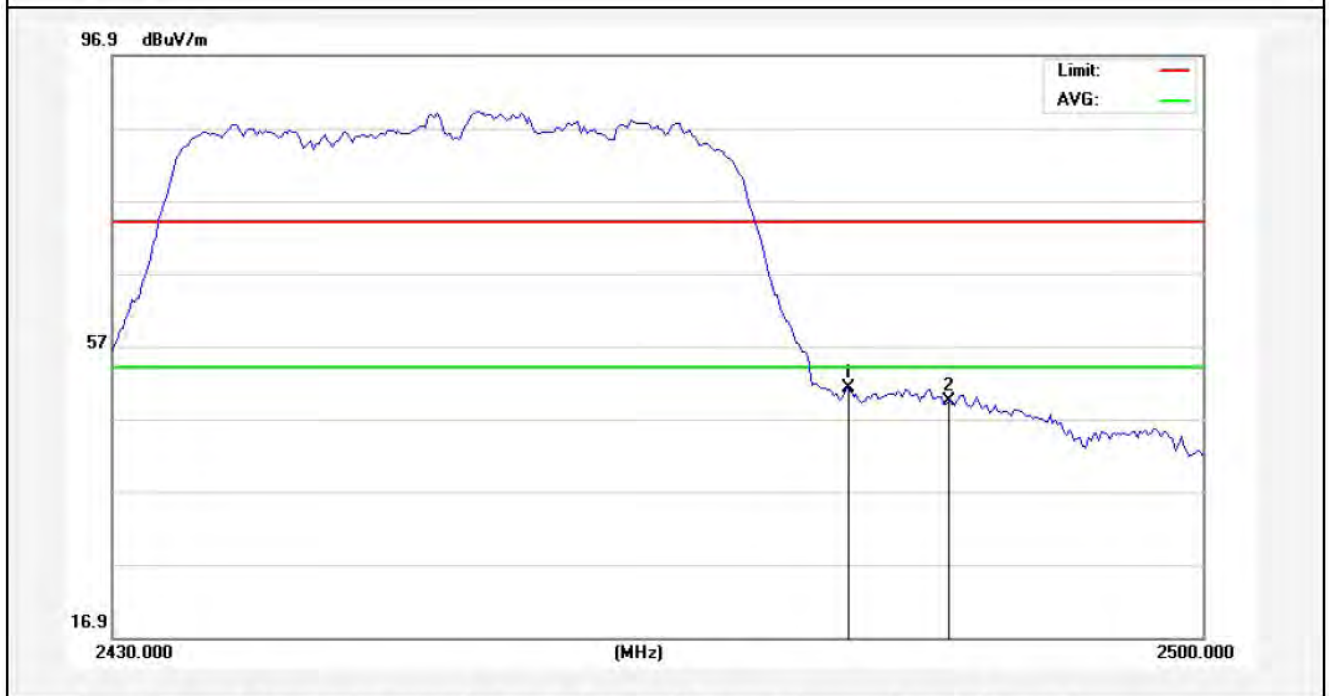


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	2483.500	46.20	-2.31	43.89	54.00	-10.11	AVG			
2	2488.800	46.56	-2.29	44.27	54.00	-9.73	AVG			

Test Mode: 802.11n (HT40)

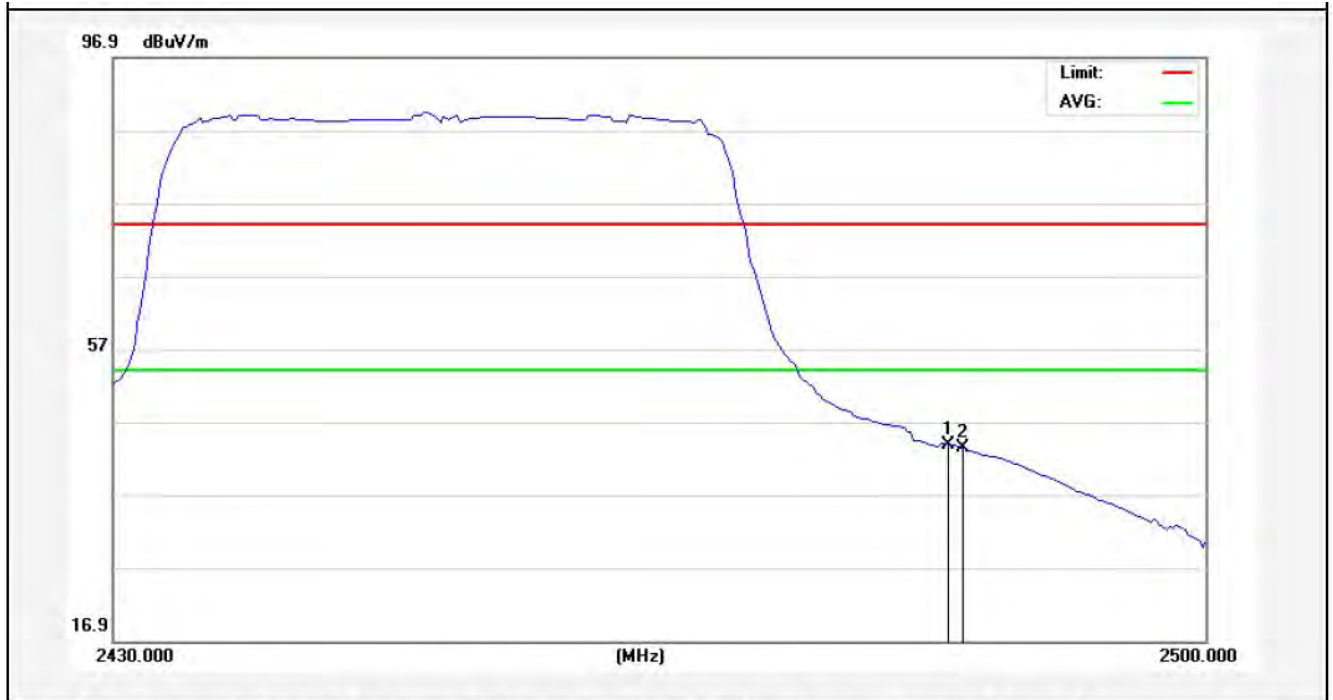
2452MHz

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	2477.075	53.45	-2.32	51.13	74.00	-22.87	peak			
2	2483.500	51.81	-2.31	49.50	74.00	-24.50	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	46.10	-2.31	43.79	54.00	-10.21	AVG			
2	2484.425	45.63	-2.30	43.33	54.00	-10.67	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 = 1.5 times DTS BW, Sweep=500s
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

# ANT A

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-23.625	-	8.00	Pass
Mid	2437	-24.263	-		Pass
High	2462	-24.329	-		Pass

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	PPSD (dBm)	Σ PSD (dBm)	Limit (dBm)	Result
Low	2412	-24.612	-	8.00	Pass
Mid	2437	-23.479	-		Pass
High	2462	-25.226	-		Pass

Test mode: IEEE 802.11n (HT20)

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-25.464	-	8.00	Pass
Mid	2437	-24.190	-		Pass
High	2462	-25.517	-		Pass

Test mode: IEEE 802.11n (HT40)

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	Σ PSD (dBm/3KHz)	Limit (dBm)	Result
Low	2422	-27.716	-	8.00	Pass
Mid	2437	-25.693	-		Pass
High	2452	-29.316	-		Pass

## ANT B

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm/3KHz)	$\Sigma$ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-25.488	-	8.00	Pass
Mid	2437	-25.506	-		Pass
High	2462	-24.836	-		Pass

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	PPSD (dBm)	$\Sigma$ PPSD (dBm)	Limit (dBm)	Result
Low	2412	-26.475	-	8.00	Pass
Mid	2437	-25.005	-		Pass
High	2462	-26.310	-		Pass

Test mode: IEEE 802.11n (HT20)

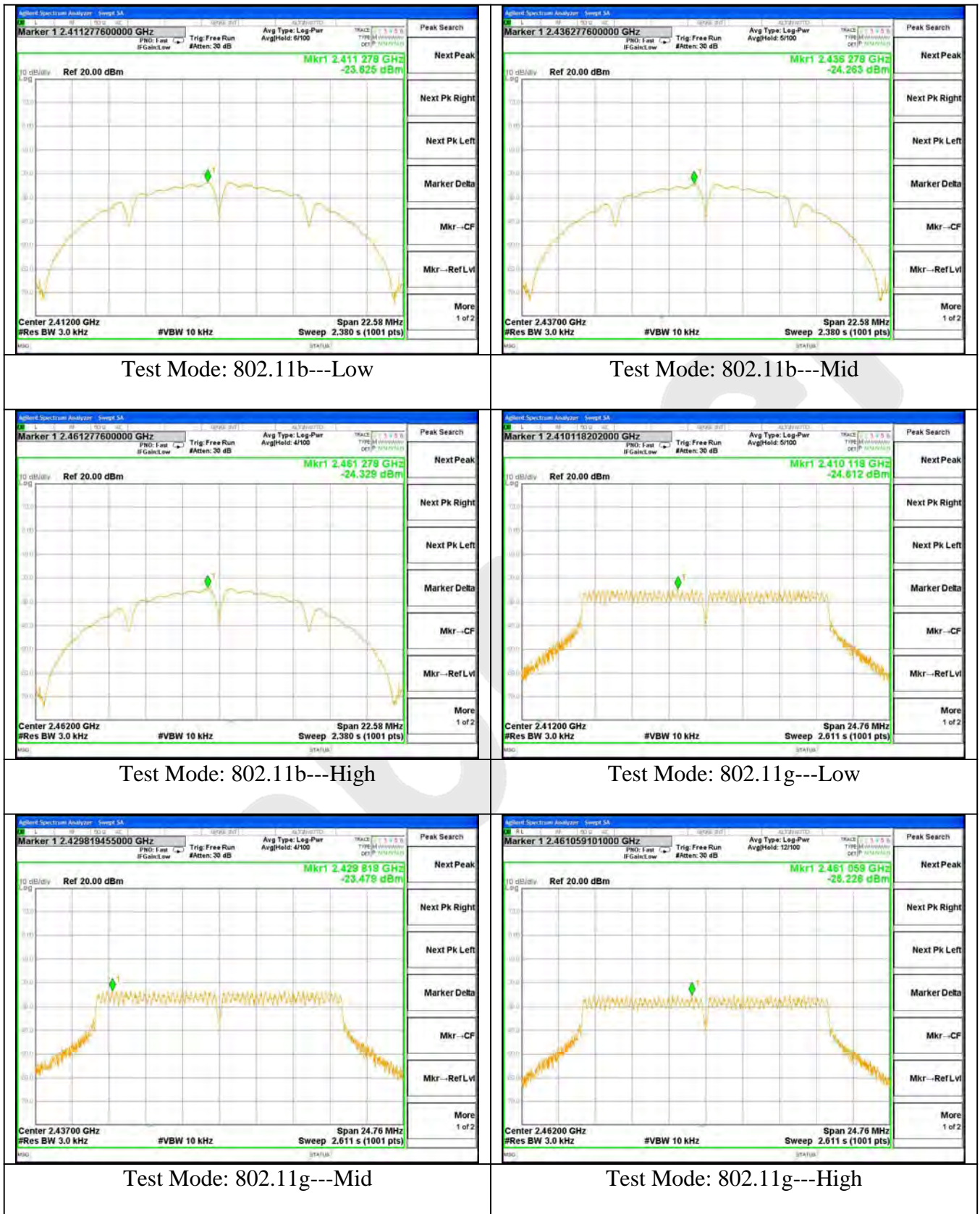
Channel	Frequency (MHz)	PPSD (dBm/3KHz)	$\Sigma$ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2412	-27.126	-	8.00	Pass
Mid	2437	-25.411	-		Pass
High	2462	-26.593	-		Pass

Test mode: IEEE 802.11n (HT40)

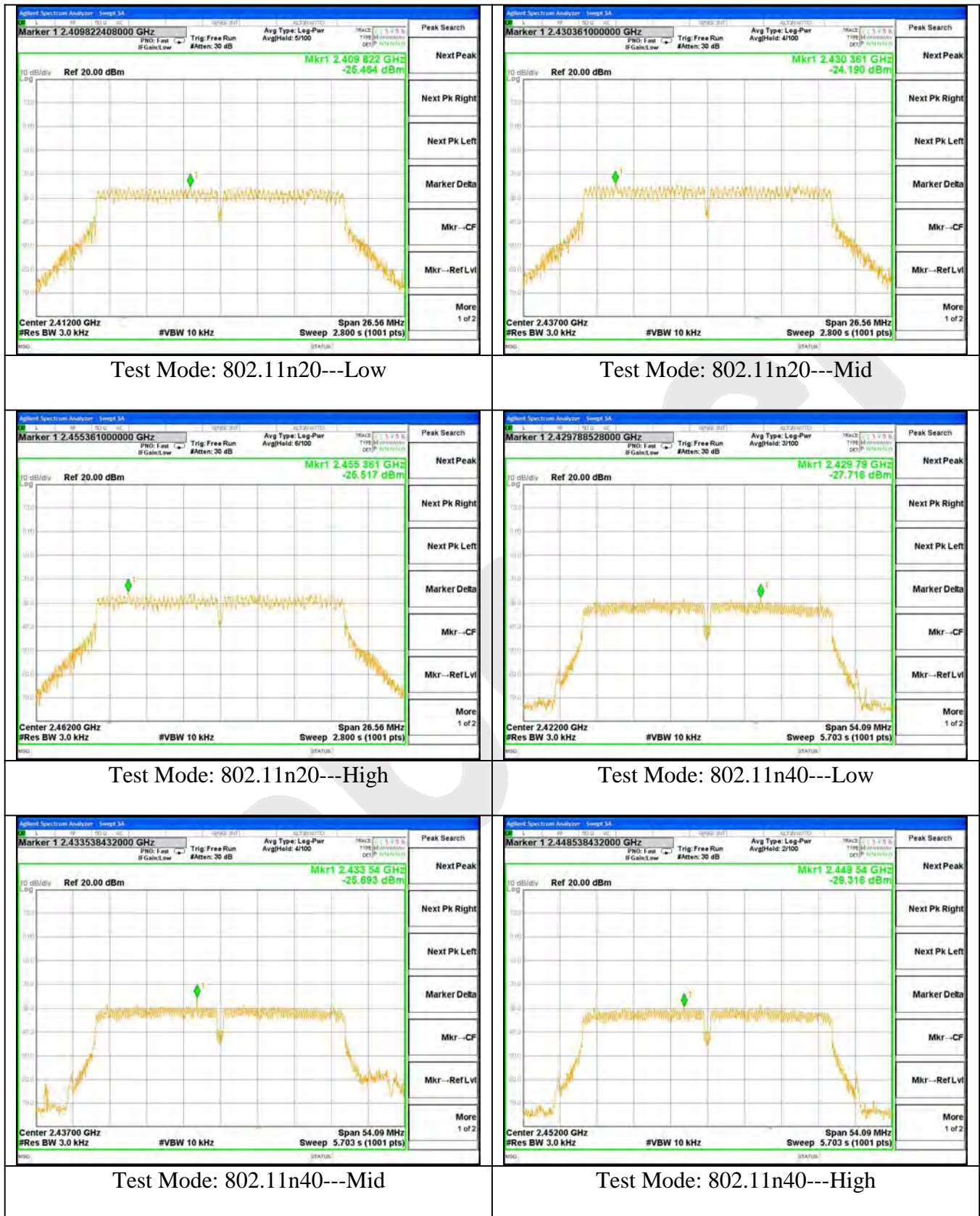
Channel	Frequency (MHz)	PPSD (dBm/3KHz)	$\Sigma$ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2422	-30.540	-	8.00	Pass
Mid	2437	-30.127	-		Pass
High	2452	-29.503	-		Pass

Channel	Channel Frequency (MHz)	ANT A PSD (dBm)	ANT B PSD (dBm)	Data Rate (Mbps)	MIMO PSD (dBm)	Limit (dBm)
<b>802.11n (20M MIMO) mode</b>						
Low	2412	-25.464	-27.126	MCS0	-23.21	8
Middle	2437	-24.190	-25.411	MCS0	-21.75	8
High	2462	-25.517	-26.593	MCS0	-23.01	8
<b>802.11n (40M MIMO) mode</b>						
Low	2422	-27.716	-30.540	MCS0	-25.90	8
Middle	2437	-25.693	-30.127	MCS0	-24.35	8
High	2452	-29.316	-29.503	MCS0	-26.40	8

ANT A

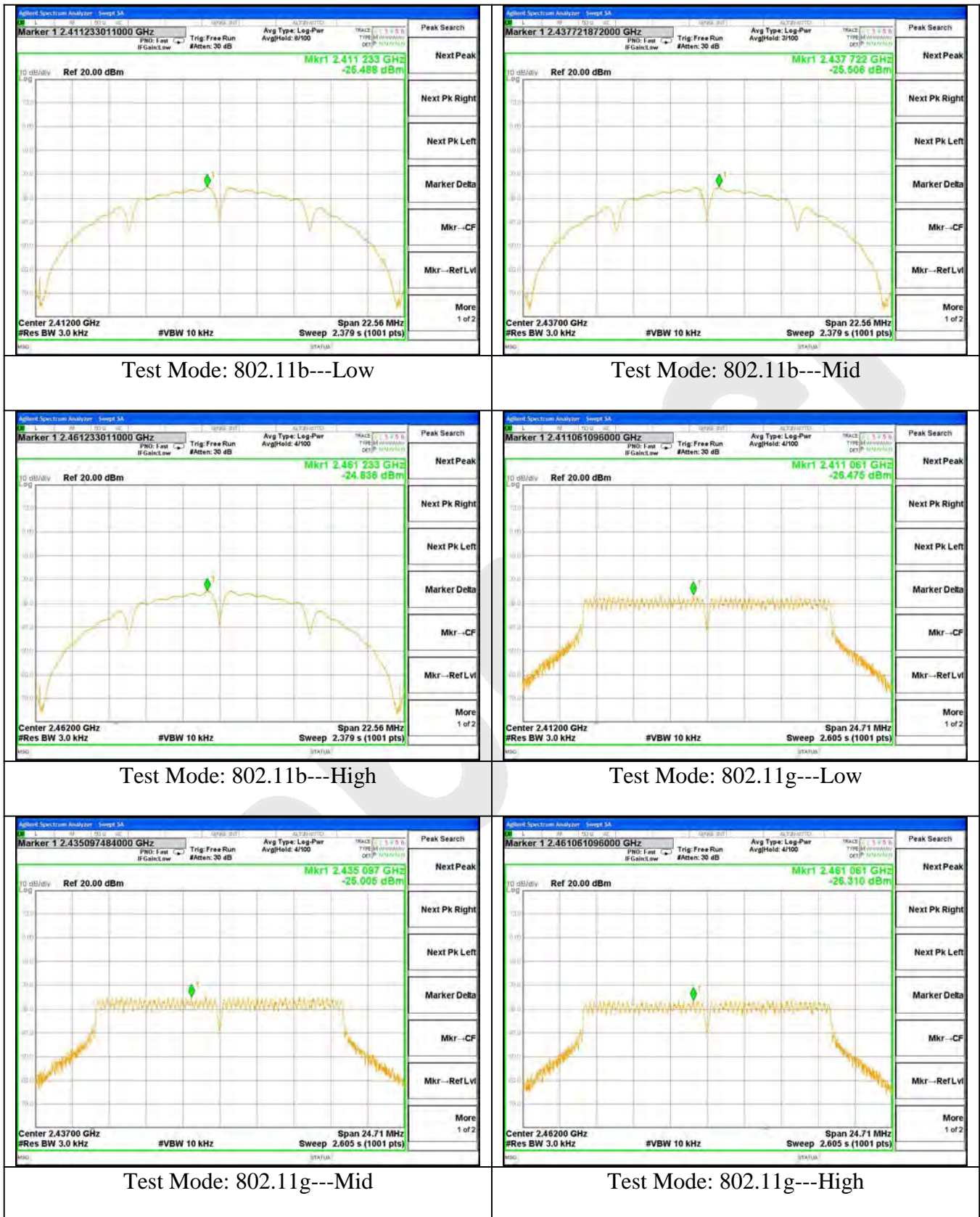








ANT B







### 3.6. Radiated Emissions

#### 3.6.1.1. 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

#### 3.6.1.2. Test Limits ( $\geq$ 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

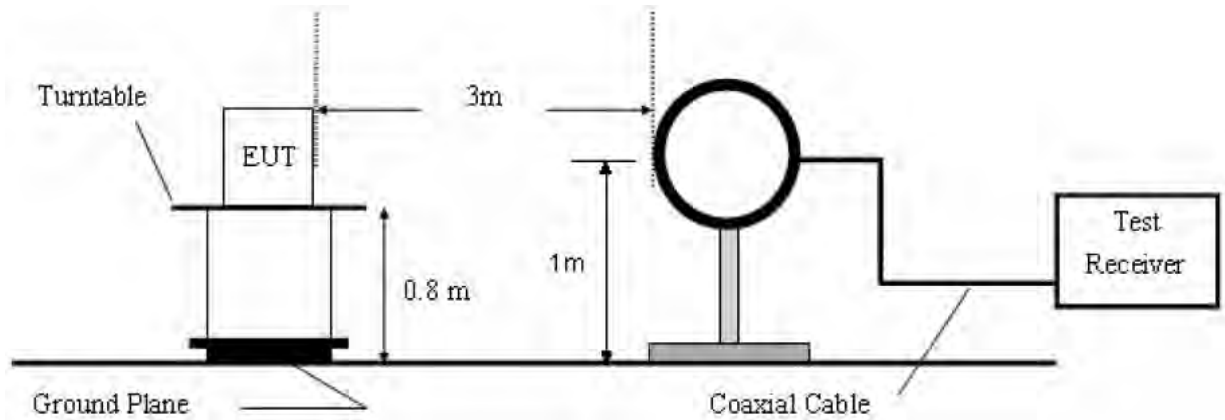
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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

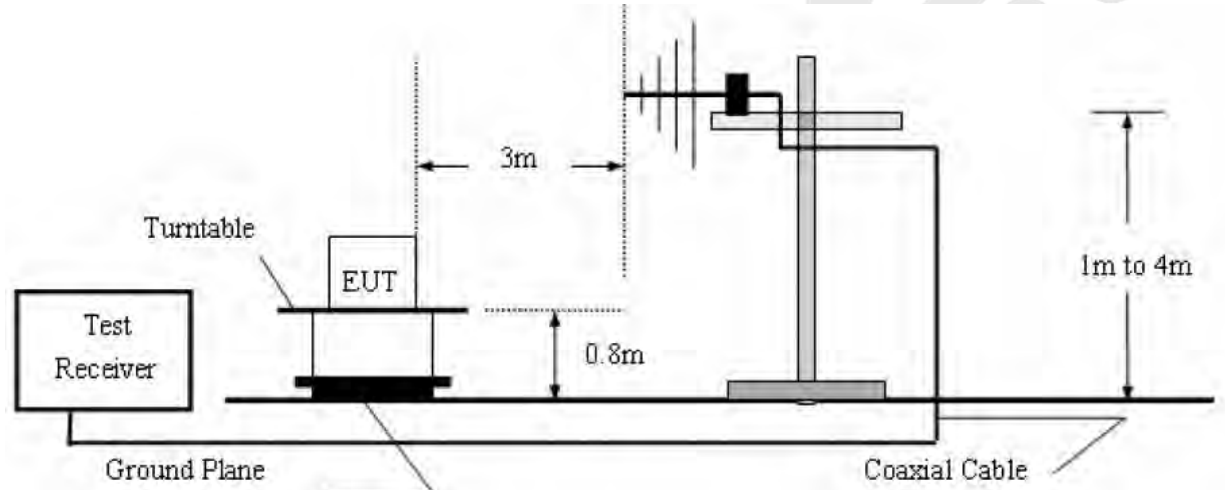
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 17, 2015	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Apr. 17, 2015	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 17, 2015	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 20, 2015	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 20, 2015	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 17, 2015	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-15 0M8	SE-0137	Mar 16, 2015	1 Year

### 3.6.2. Test Configuration:

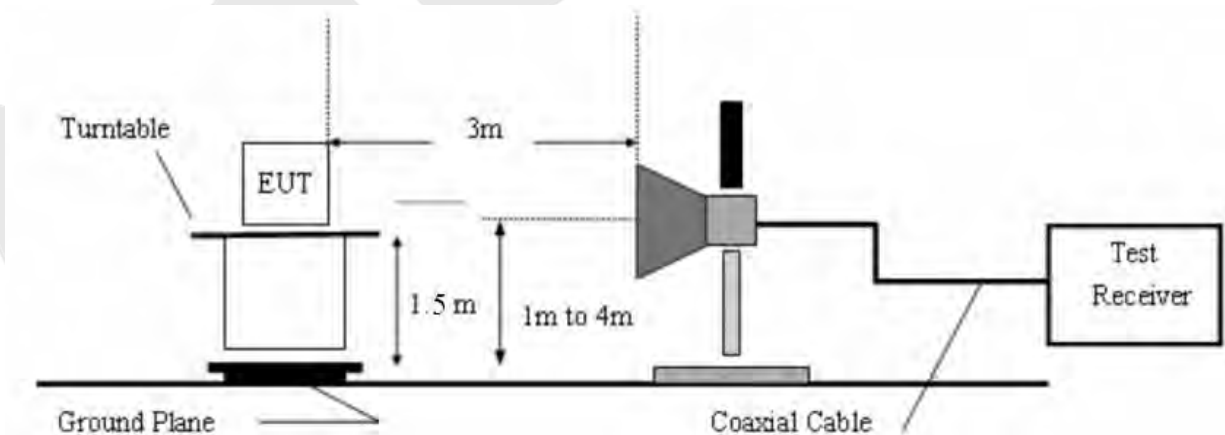
#### 3.6.2.1. 9k to 30MHz emissions:



#### 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 an 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 readings 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.

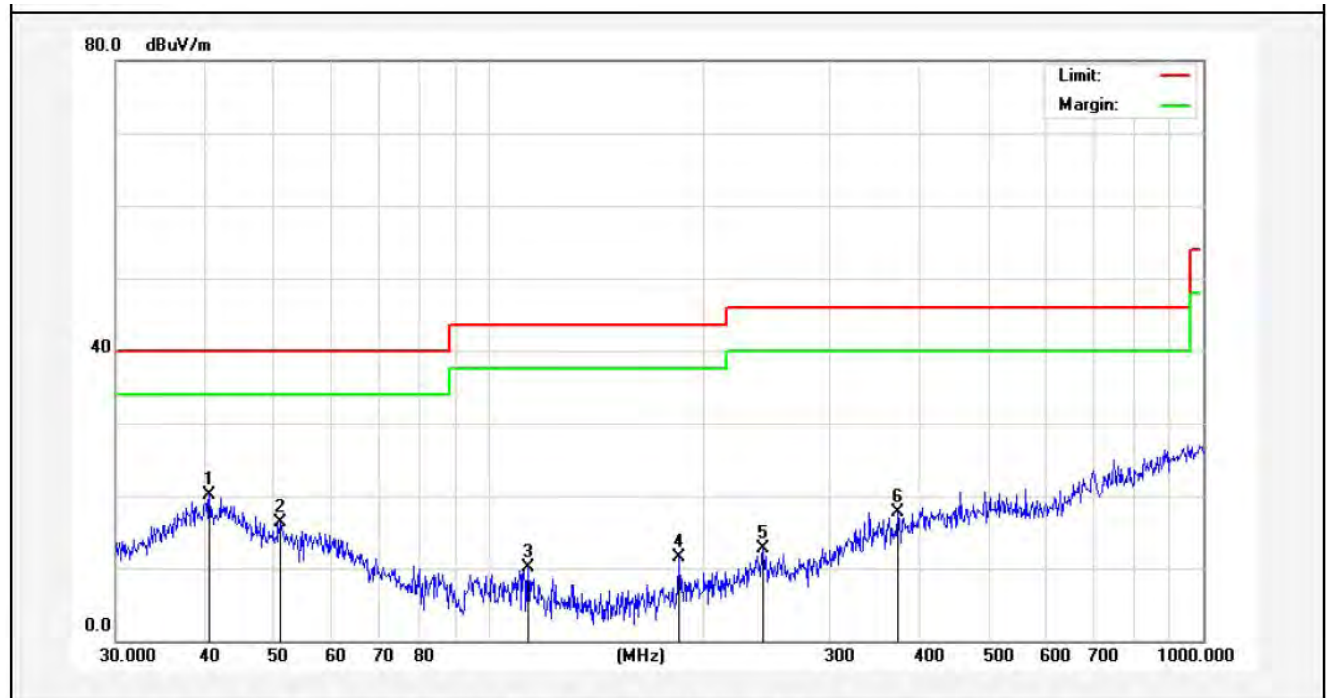
The test results are listed in Section 3.6.4.

### 3.6.4. Test Results

Please refer to 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.

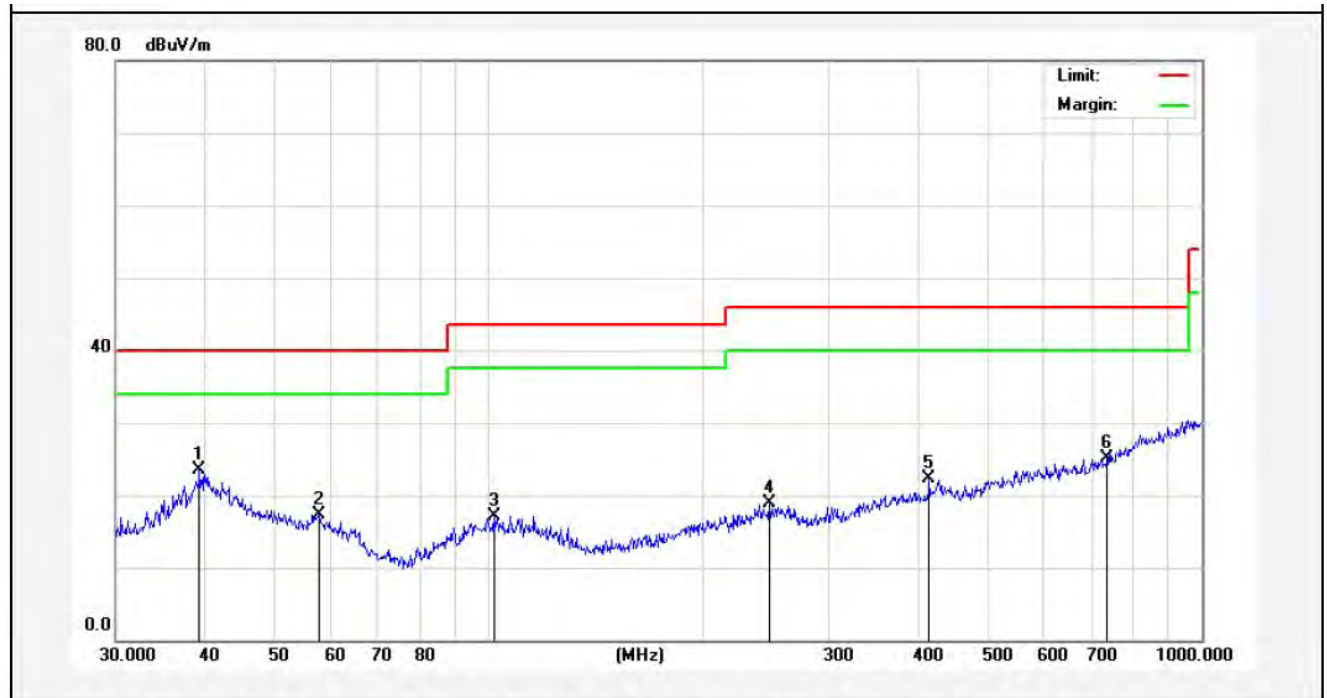
Job No.:	011509457I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	ON	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.5591	30.69	-10.58	20.11	40.00	-19.89	peak			
2	50.9420	30.91	-14.63	16.28	40.00	-23.72	peak			
3	113.3163	30.89	-20.86	10.03	43.50	-33.47	peak			
4	184.4898	32.92	-21.43	11.49	43.50	-32.01	peak			
5	241.6763	30.78	-18.17	12.61	46.00	-33.39	peak			
6	373.3112	31.15	-13.40	17.75	46.00	-28.25	peak			

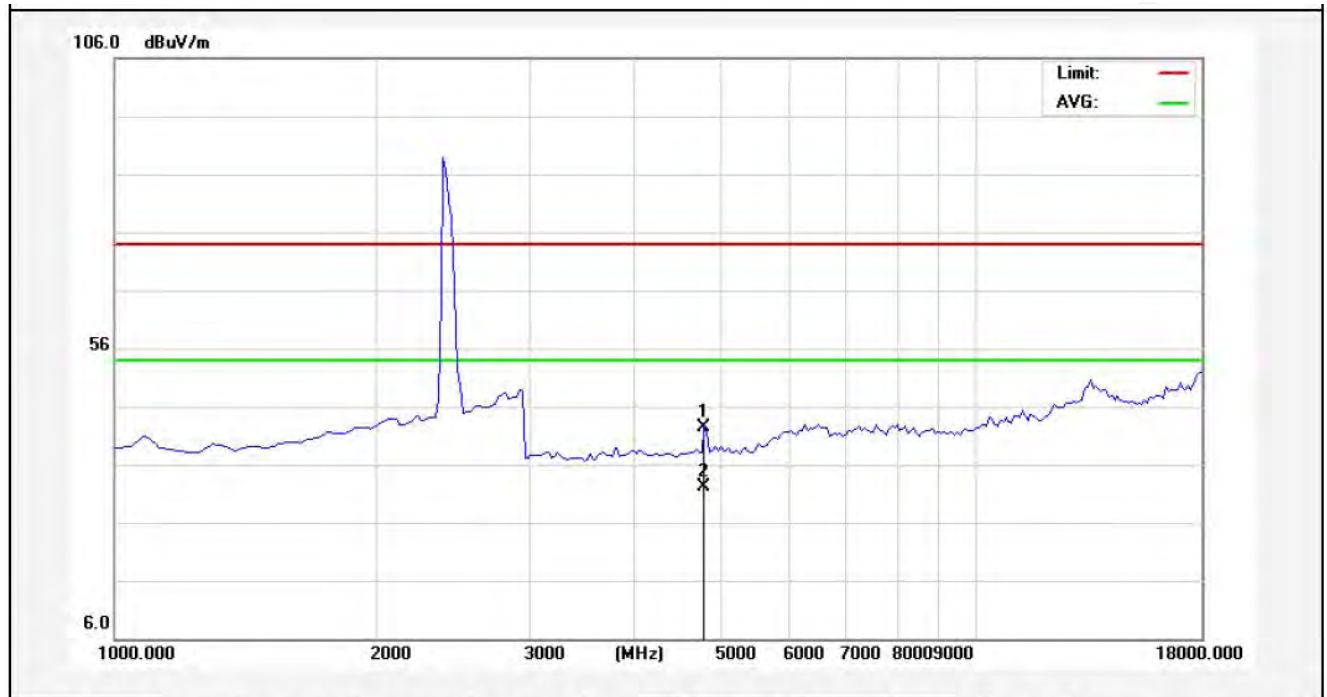


Job No.:	011509457I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Test Mode:	ON	Distance:	3m



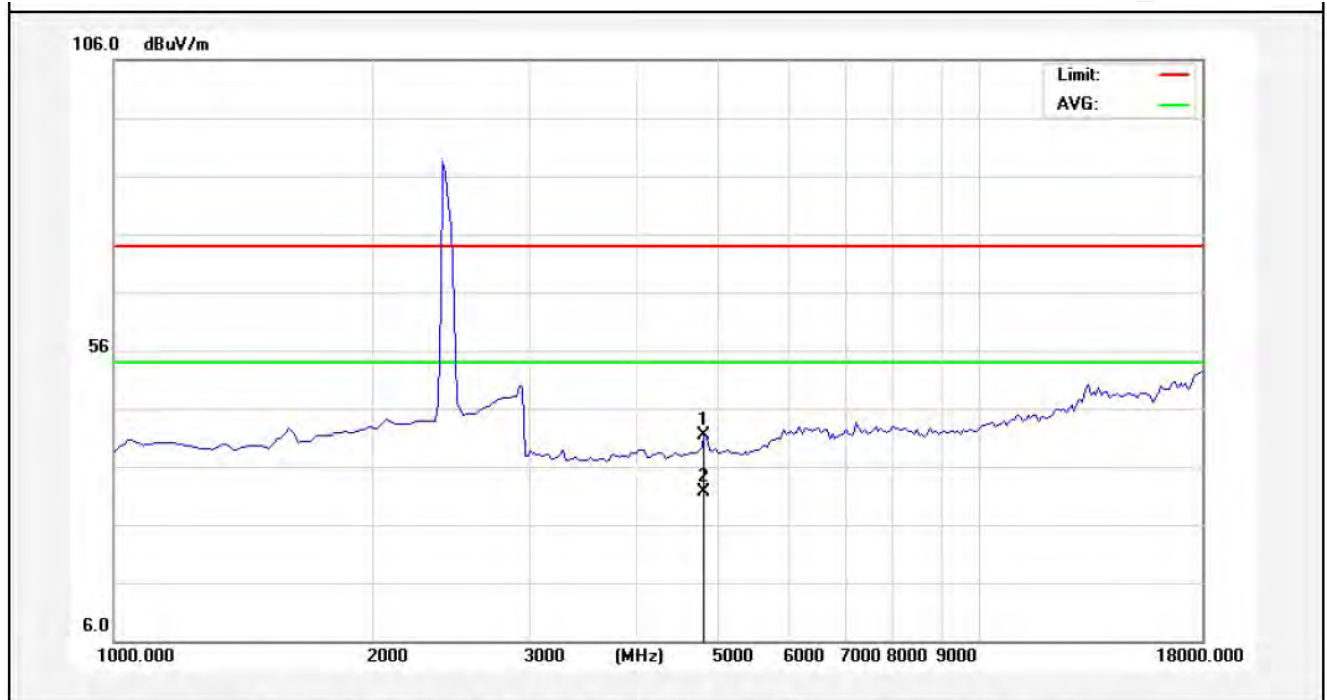
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.2991	34.33	-10.92	23.41	40.00	-16.59	peak			
2	57.7962	32.52	-15.19	17.33	40.00	-22.67	peak			
3	101.6443	32.85	-15.74	17.11	43.50	-26.39	peak			
4	247.6819	33.06	-14.06	19.00	46.00	-27.00	peak			
5	414.7223	33.66	-11.44	22.22	46.00	-23.78	peak			
6	737.0714	32.52	-7.39	25.13	46.00	-20.87	peak			

Job No.:	011509457I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT A 802.11b(2412MHz)	Distance:	3m



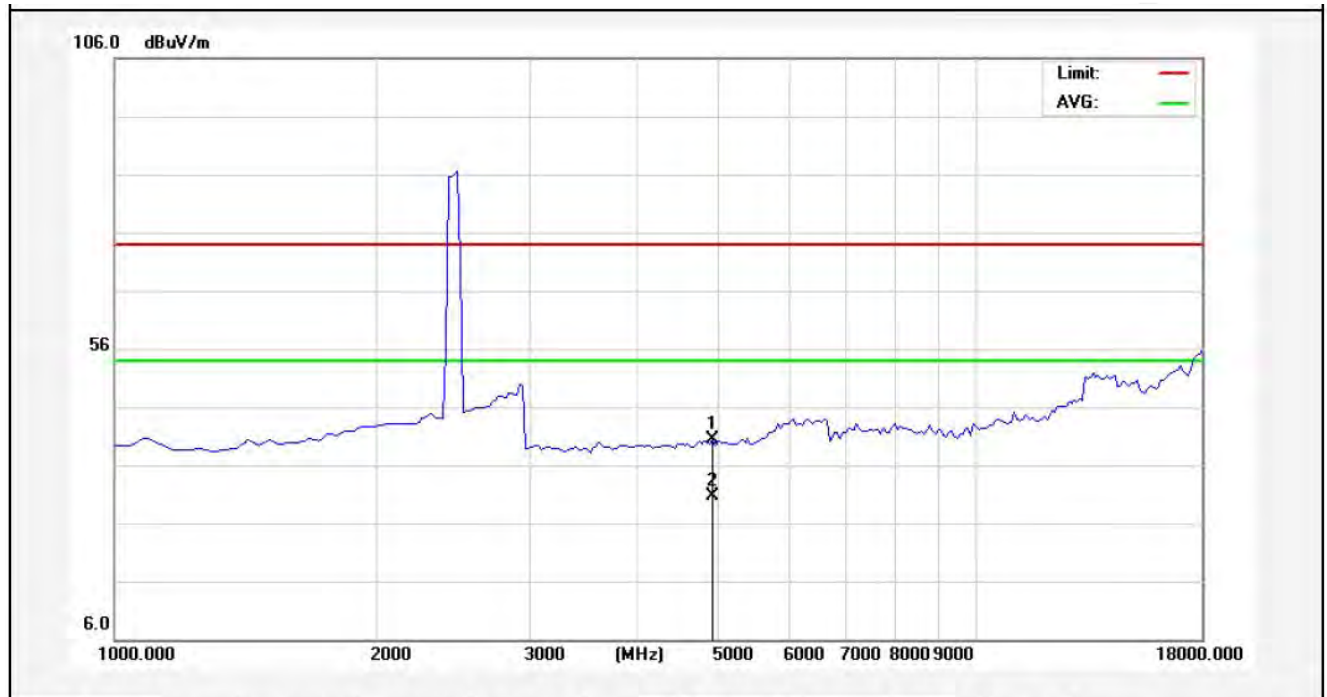
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4825.000	39.00	3.34	42.34	74.00	-31.66	peak			
2	4825.000	28.69	3.34	32.03	54.00	-21.97	AVG			

Job No.:	011509457I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT A 802.11b(2412MHz)	Distance:	3m



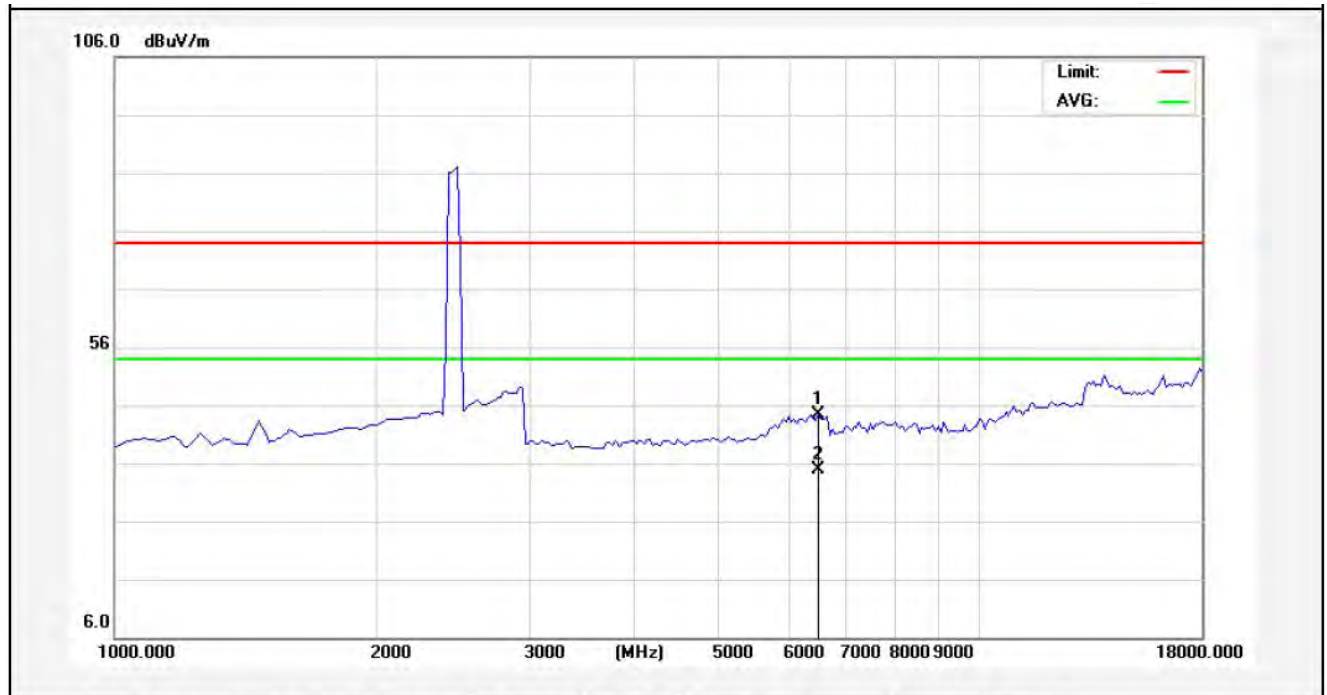
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4825.000	38.10	3.34	41.44	74.00	-32.56	peak			
2	4825.000	28.35	3.34	31.69	54.00	-22.31	AVG			

Job No.:	011509457I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT A 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	36.94	3.49	40.43	74.00	-33.57	peak			
2	4910.000	27.24	3.49	30.73	54.00	-23.27	AVG			

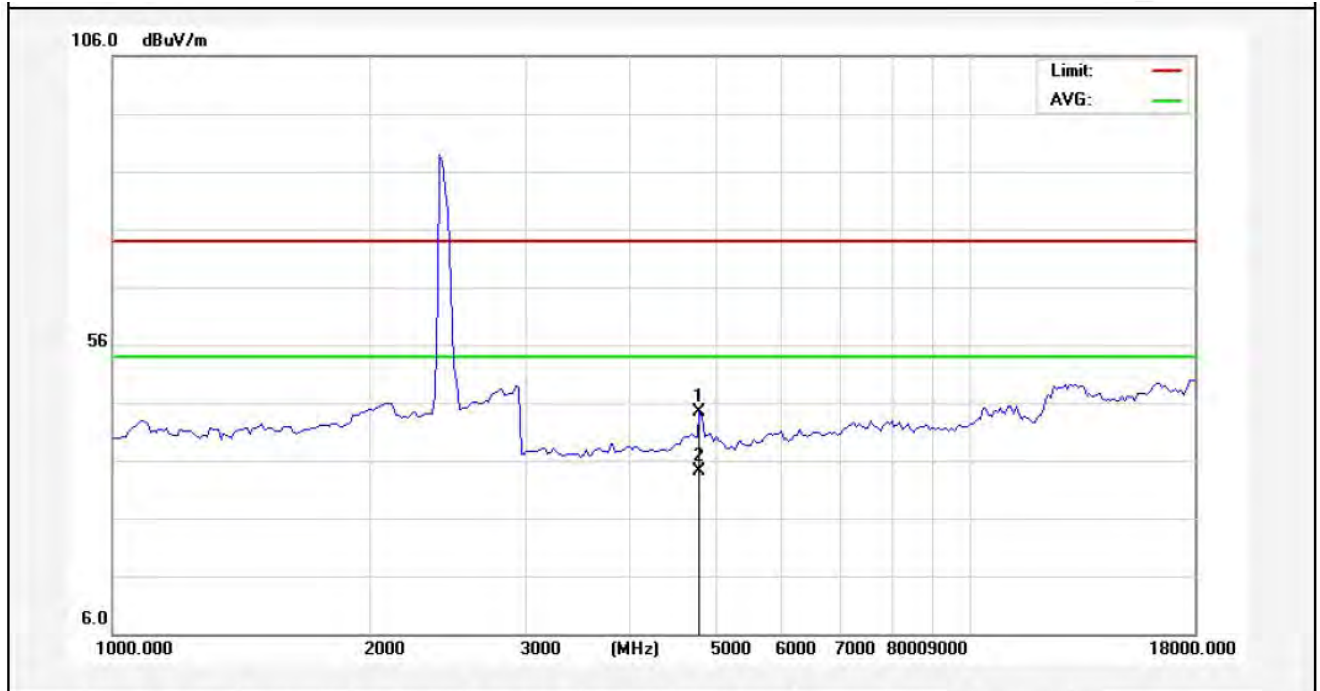
Job No.:	011509457I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT A 802.11b(2437MHz)	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	6525.000	36.79	7.63	44.42	74.00	-29.58	peak			
2	6525.000	27.19	7.63	34.82	54.00	-19.18	AVG			



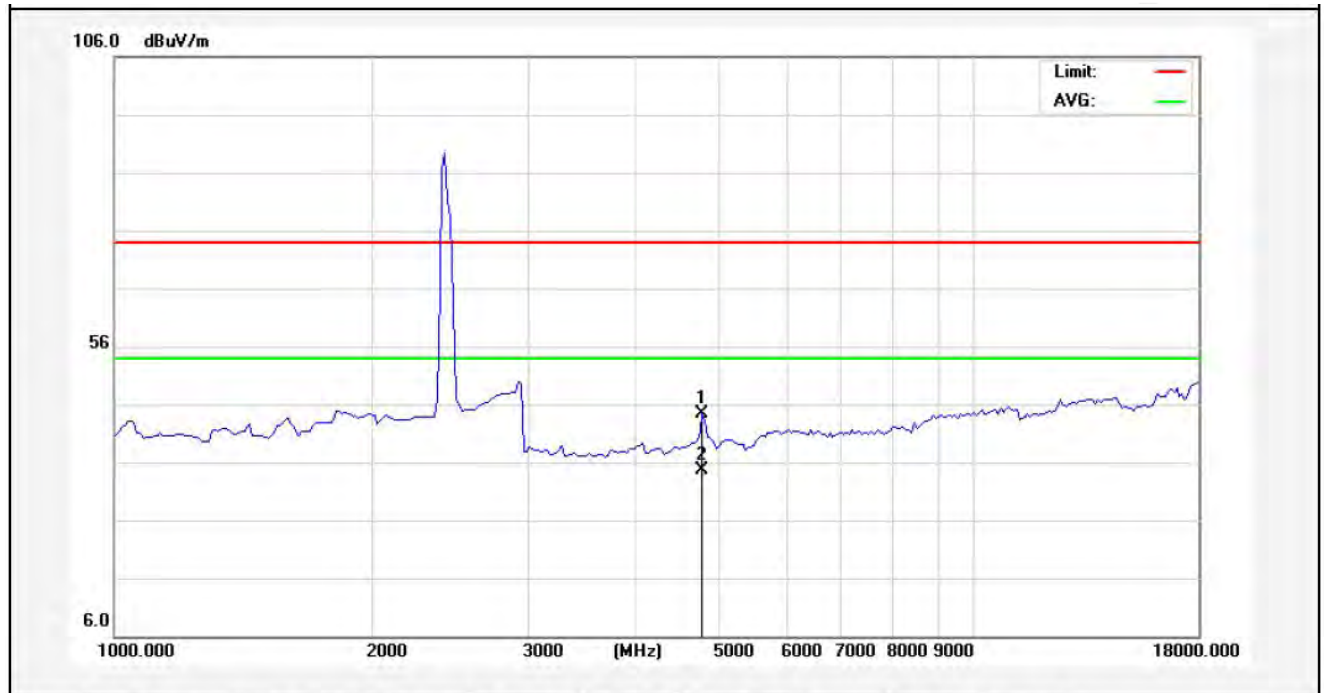
<b>Job No.:</b>	<b>011509457I</b>	<b>Polarization:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>(RE)FCC PART15 C _3m</b>	<b>Power Source:</b>	<b>DC 5V</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Temp.(C)/Hum.(%RH):</b>	<b>24.3(C)/55%RH</b>
<b>Note:</b>	<b>ANT A</b>	<b>Distance:</b>	<b>3m</b>
	<b>802.11b(2462MHz)</b>		



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	41.00	3.34	44.34	74.00	-29.66	peak			
2	4825.000	30.75	3.34	34.09	54.00	-19.91	AVG			

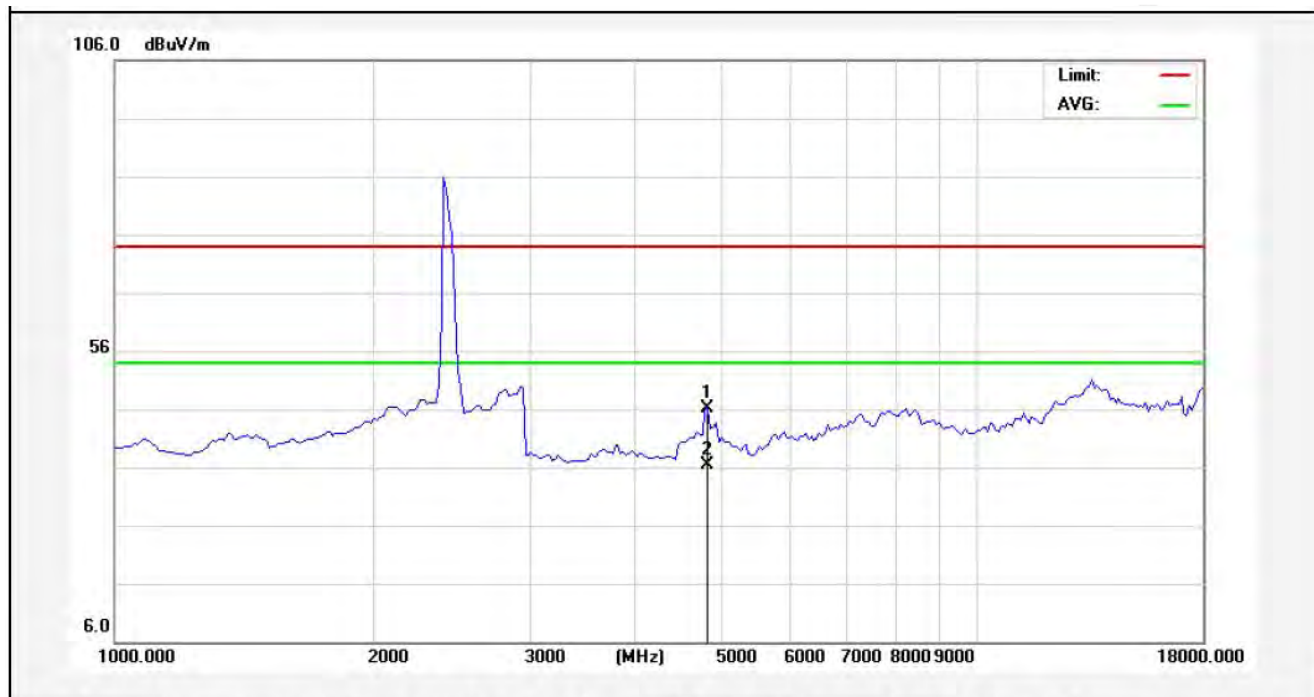


Job No.:	011509457I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT A 802.11b(2462MHz)	Distance:	3m



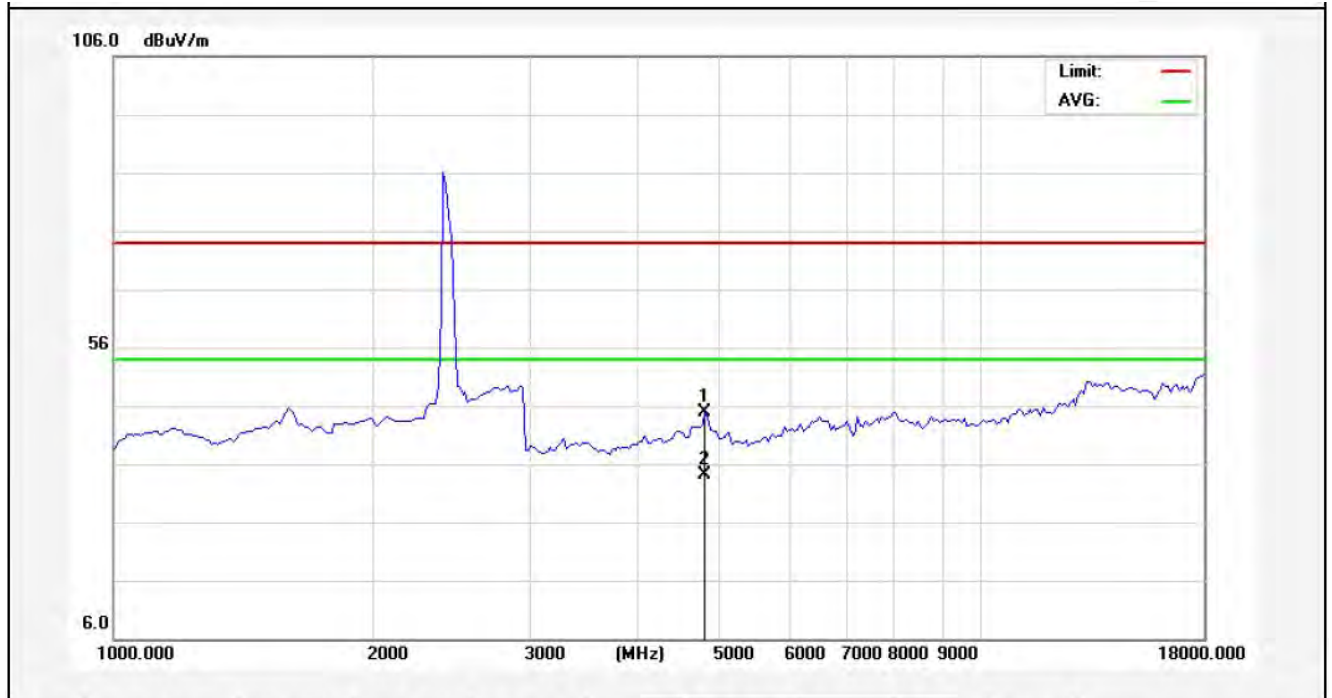
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4825.000	41.10	3.34	44.44	74.00	-29.56	peak			
2	4825.000	31.29	3.34	34.63	54.00	-19.37	AVG			

<b>Job No.:</b>	<b>011509457I</b>	<b>Polarization:</b>	<b>Horizontal</b>
<b>Standard:</b>	<b>(RE)FCC PART15 C _3m</b>	<b>Power Source:</b>	<b>DC 5V</b>
<b>Test item:</b>	<b>Radiation Test</b>	<b>Temp.(C)/Hum.(%RH):</b>	<b>24.3(C)/55%RH</b>
<b>Note:</b>	<b>ANT B</b>	<b>Distance:</b>	<b>3m</b>
	<b>802.11b(2412MHz)</b>		



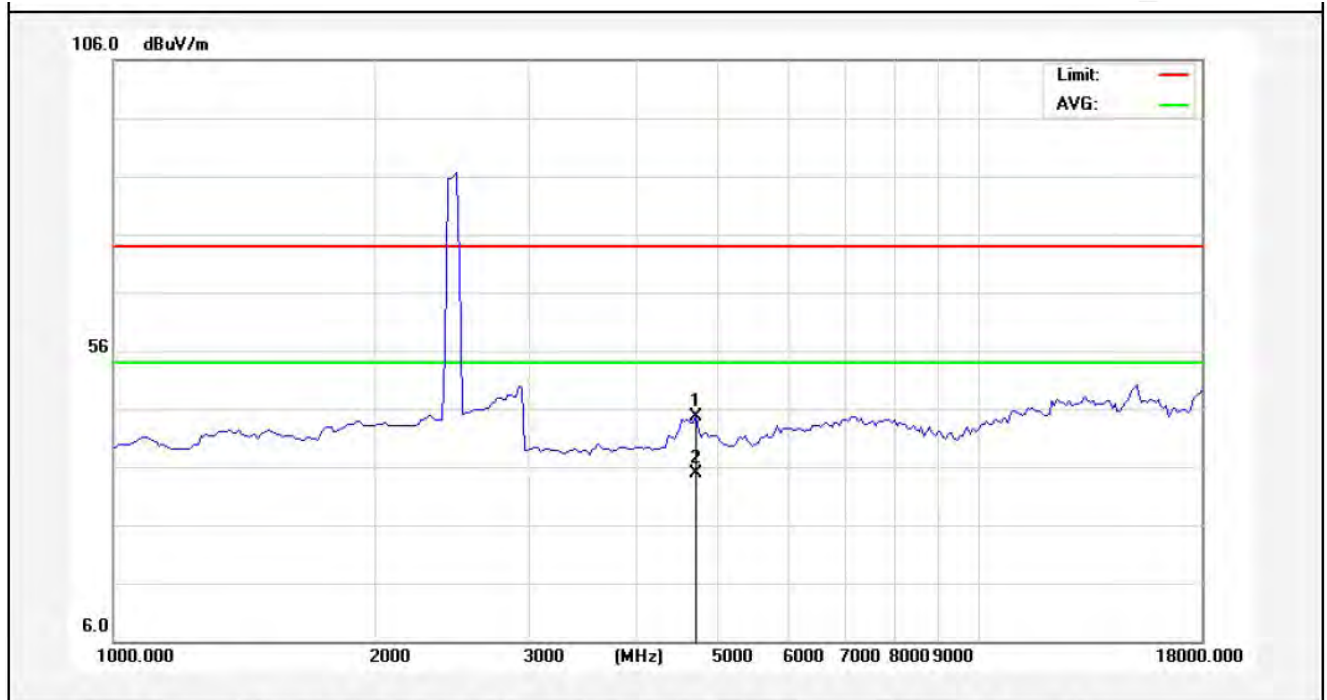
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4831.962	42.81	3.35	46.16	74.00	-27.84	peak			
2	4831.962	33.09	3.35	36.44	54.00	-17.56	AVG			

Job No.:	011509457I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT B 802.11b(2412MHz)	Distance:	3m



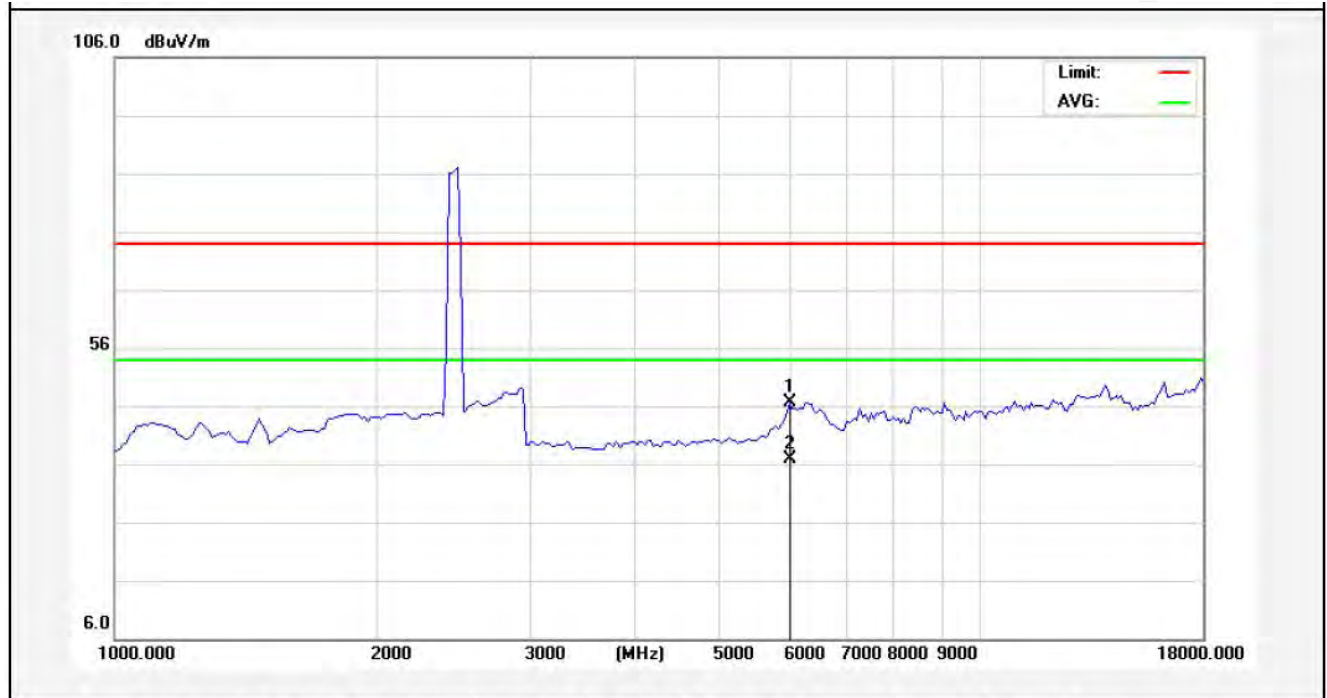
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4825.000	41.60	3.34	44.94	74.00	-29.06	peak			
2	4825.000	30.71	3.34	34.05	54.00	-19.95	AVG			

Job No.:	011509457I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT B 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	4697.500	41.52	3.11	44.63	74.00	-29.37	peak			
2	4697.500	31.70	3.11	34.81	54.00	-19.19	AVG			

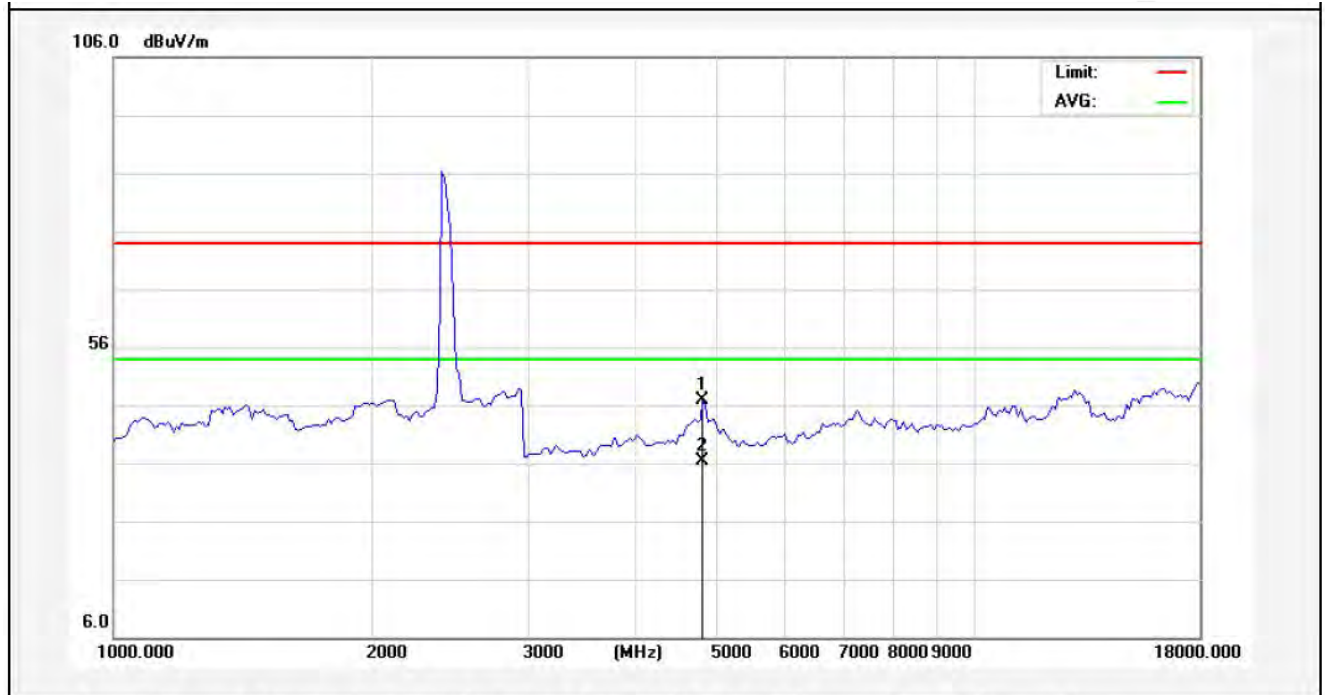
Job No.:	011509457I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT B 802.11b(2437MHz)	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	6015.000	39.37	7.14	46.51	74.00	-27.49	peak			
2	6015.000	29.79	7.14	36.93	54.00	-17.07	AVG			



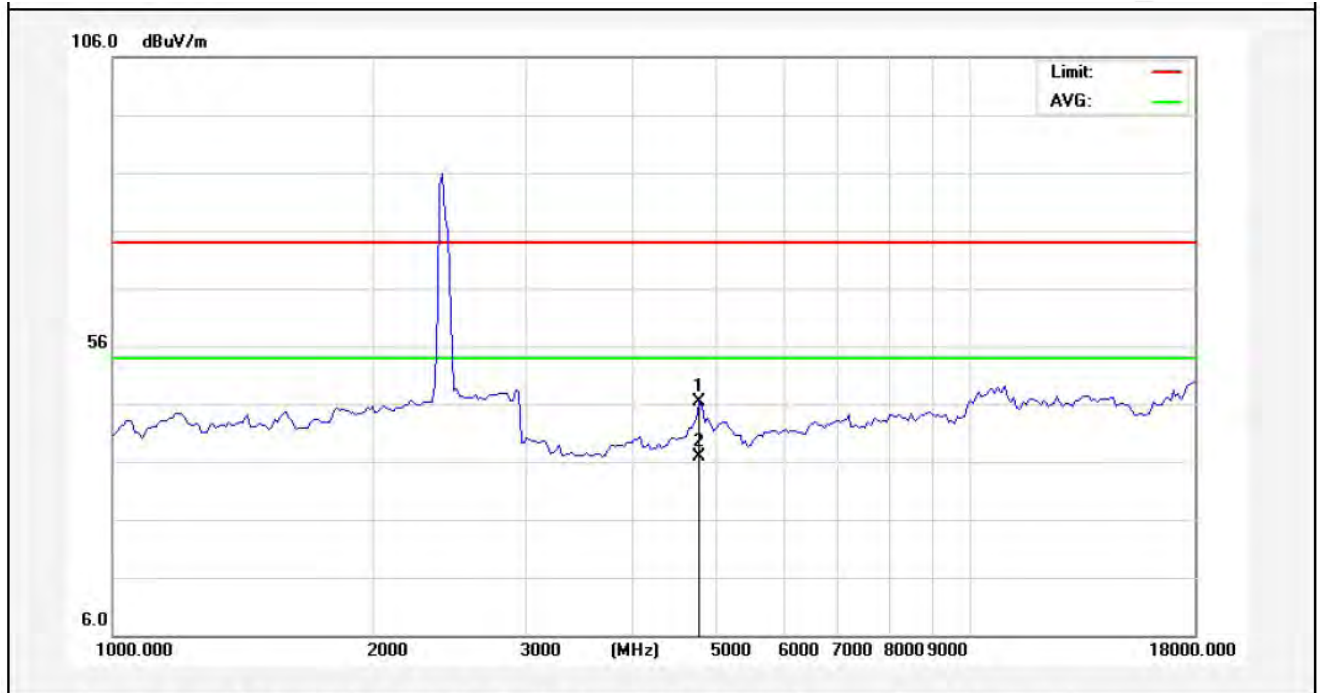
Job No.:	011509457I	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT B 802.11b(2462MHz)	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	4825.000	43.50	3.34	46.84	74.00	-27.16	peak			
2	4825.000	32.96	3.34	36.30	54.00	-17.70	AVG			



Job No.:	011509457I	Polarization:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 5V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	ANT B 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	4825.000	43.10	3.34	46.44	74.00	-27.56	peak			
2	4825.000	33.44	3.34	36.78	54.00	-17.22	AVG			

## 4. ANTENNA APPLICATION

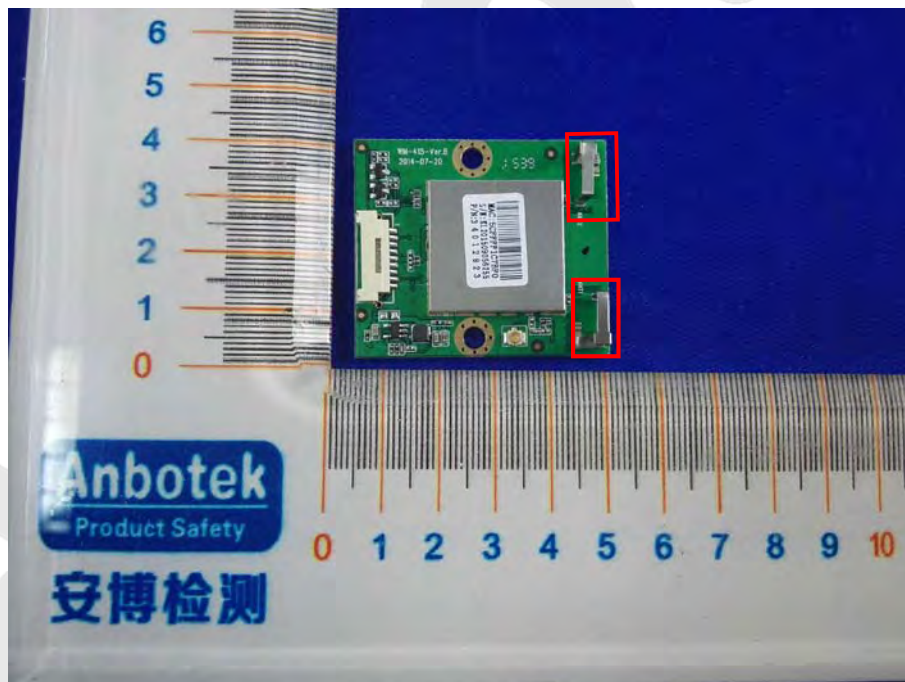
### 4.1. Antenna requirement

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.

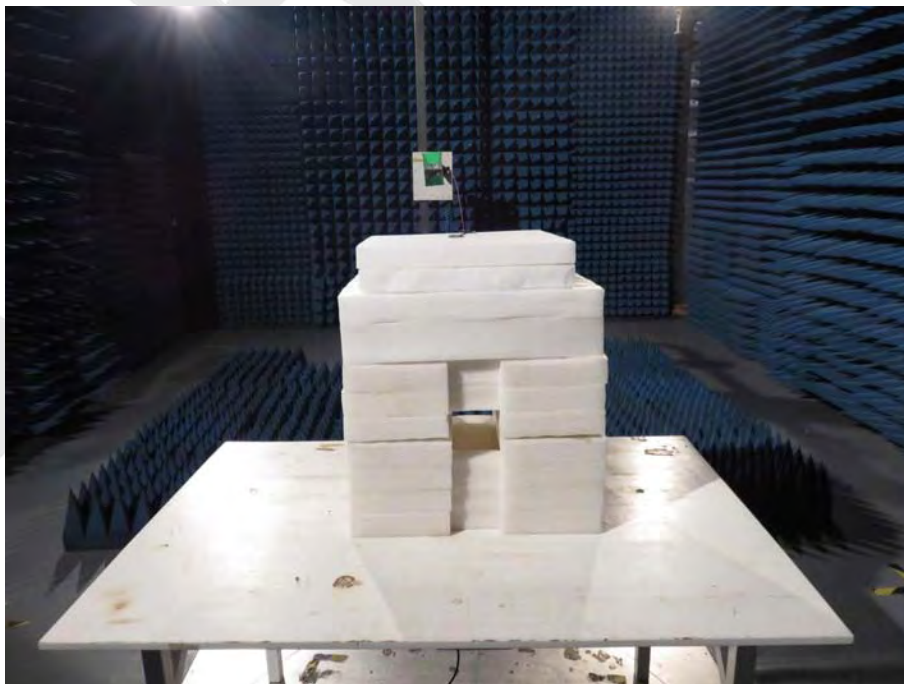
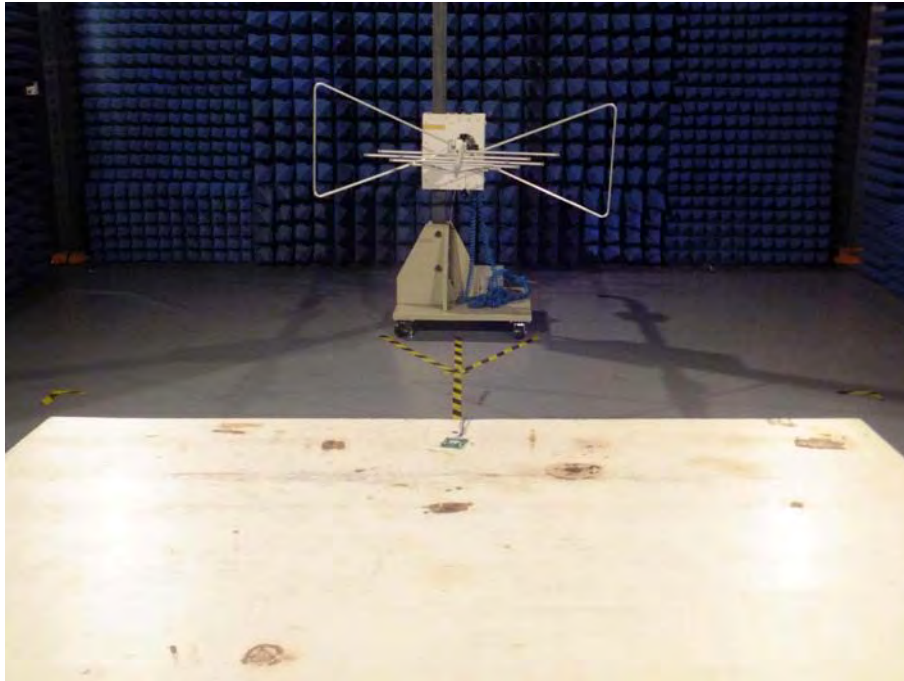
### 4.2. Result

The EUT's antenna used a Integrated antenna which is permanently attached, The antenna's gain is -1.78dBi and meets the requirement.



## 5. PHOTOGRAPH

### 5.1. Photo of Radiation Emission Test



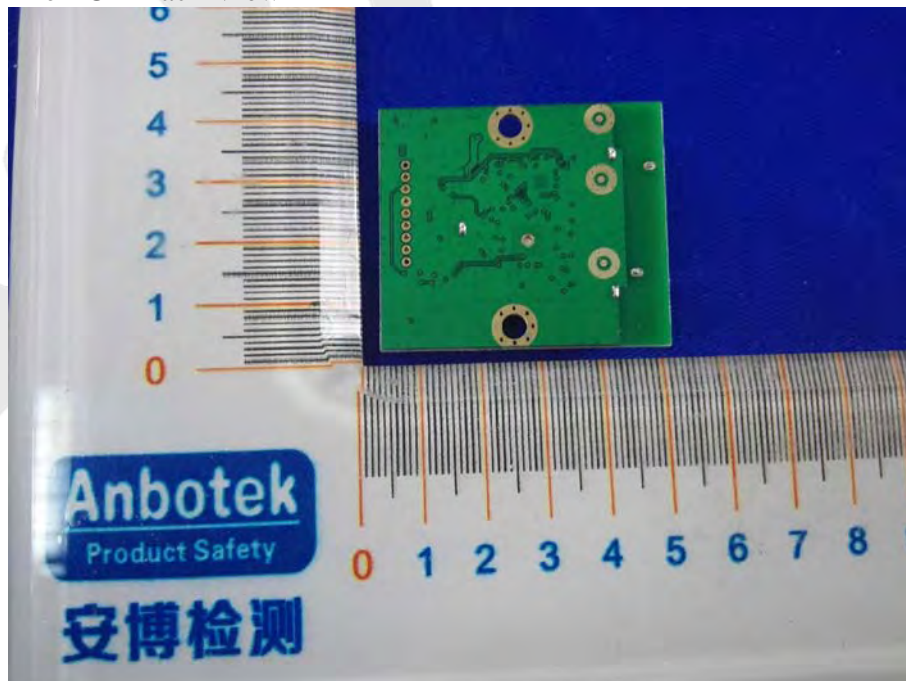


## APPENDIX I (EXTERNAL PHOTOS)

Figure 1  
The EUT-Front View



Figure 2  
The EUT-Back View



## APPENDIX II (INTERNAL PHOTOS)

Figure 3  
The EUT-Inside View



Figure 4  
PCB of the EUT-Front View





Figure 5  
PCB of the EUT-Back View

