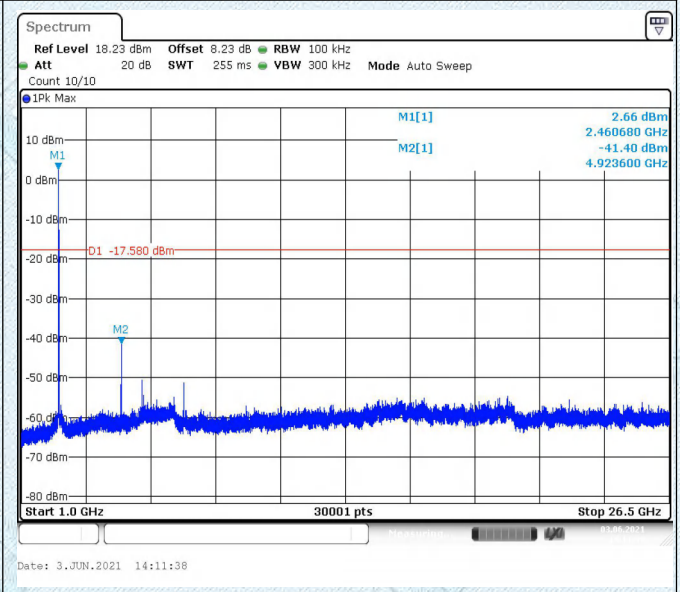
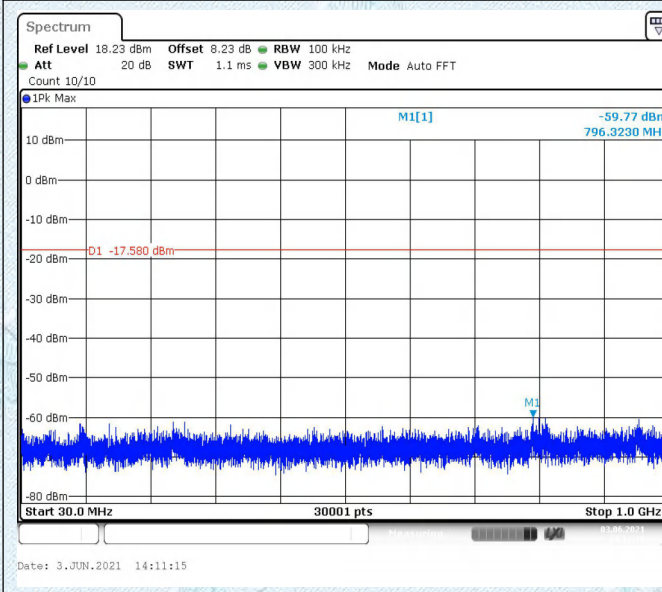
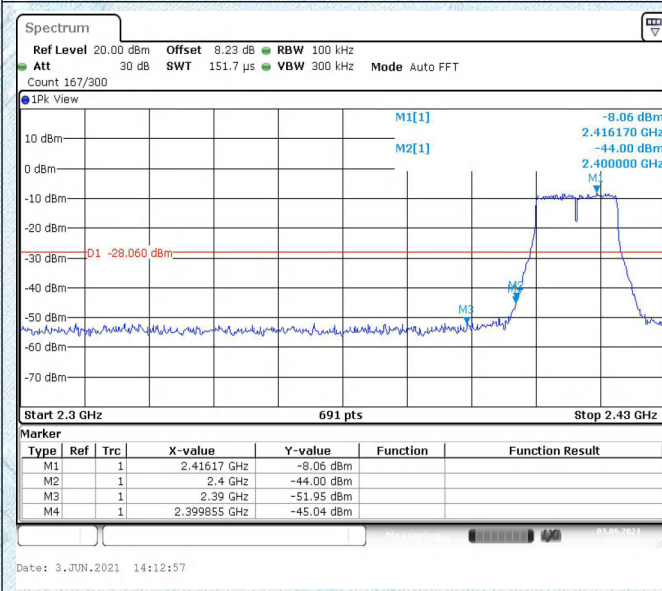


CH11-SE

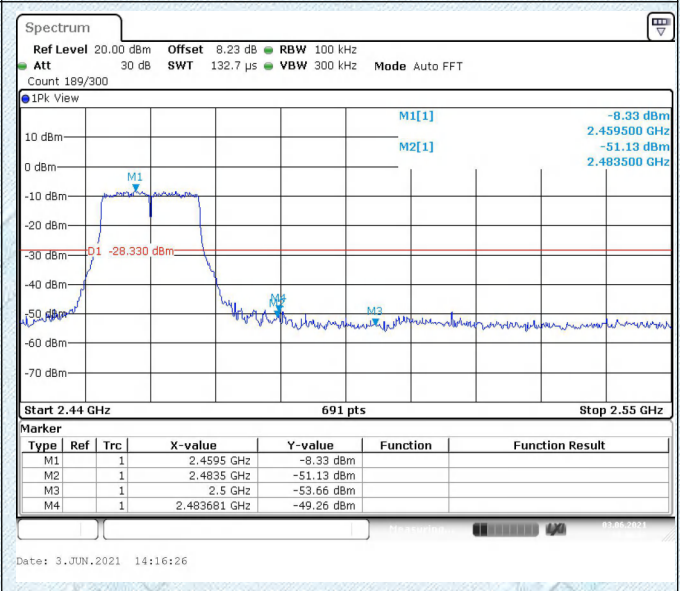


802.11g

CH01-Bandedge

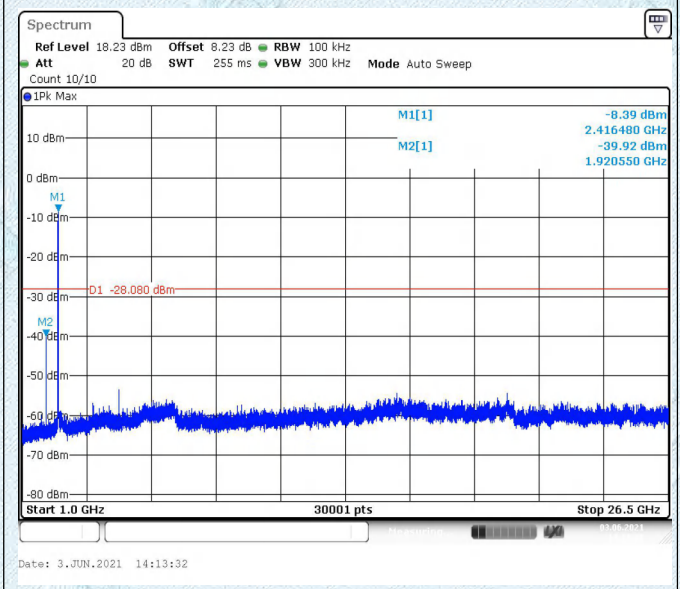
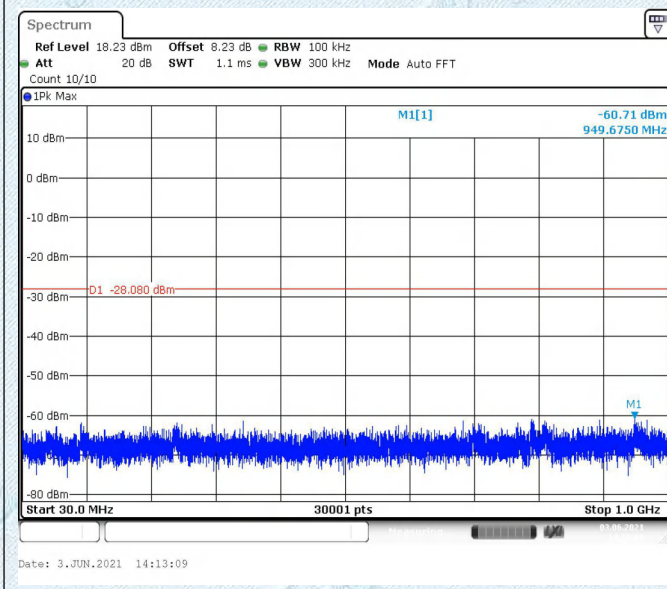


CH11-Bandedge

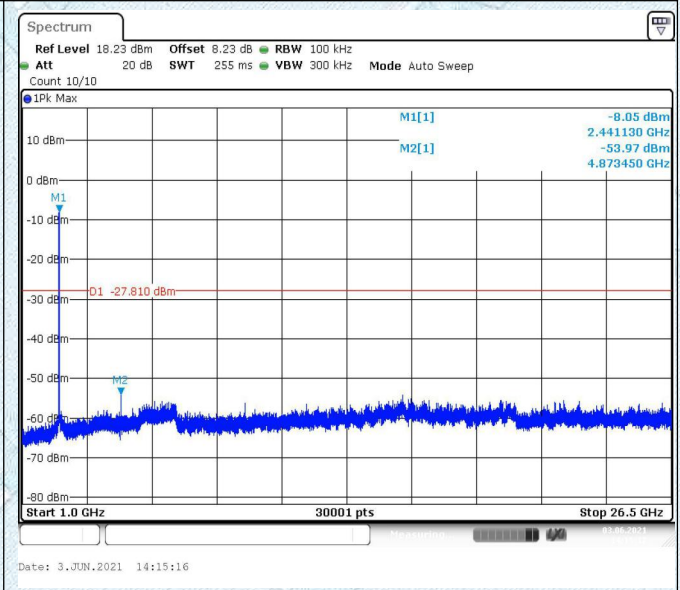
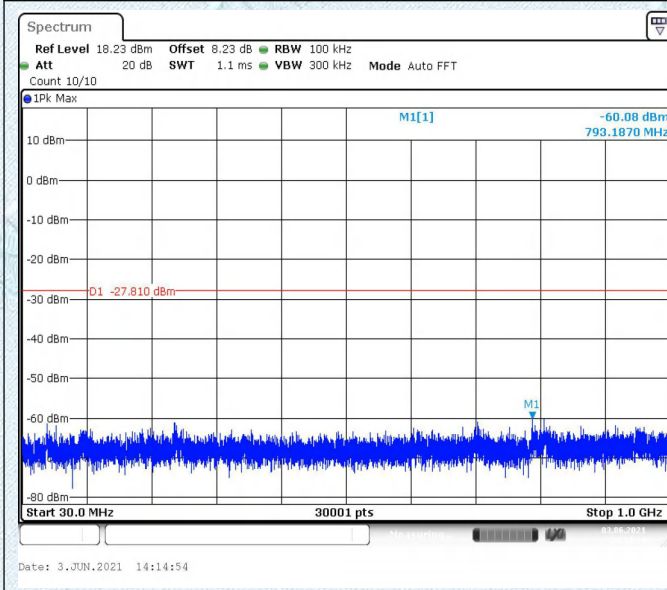


802.11g

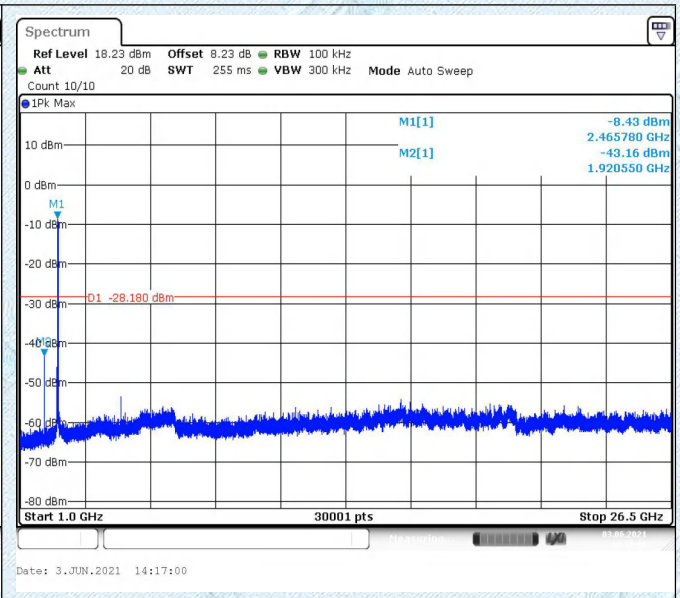
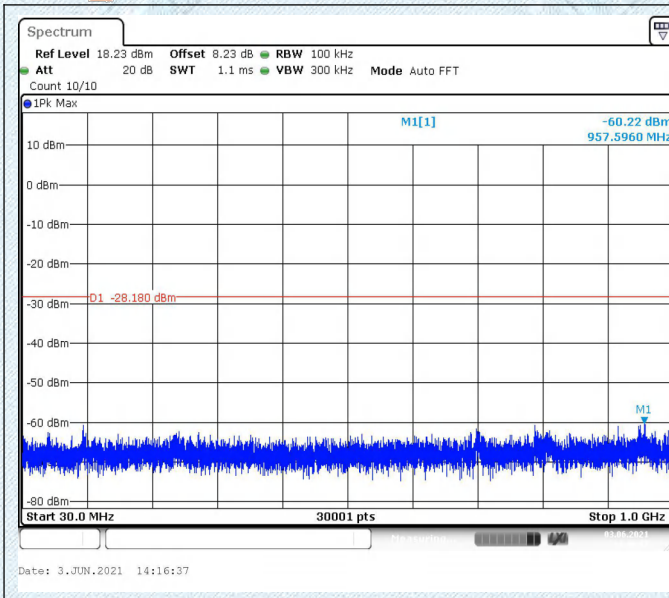
CH01-SE



CH06-SE



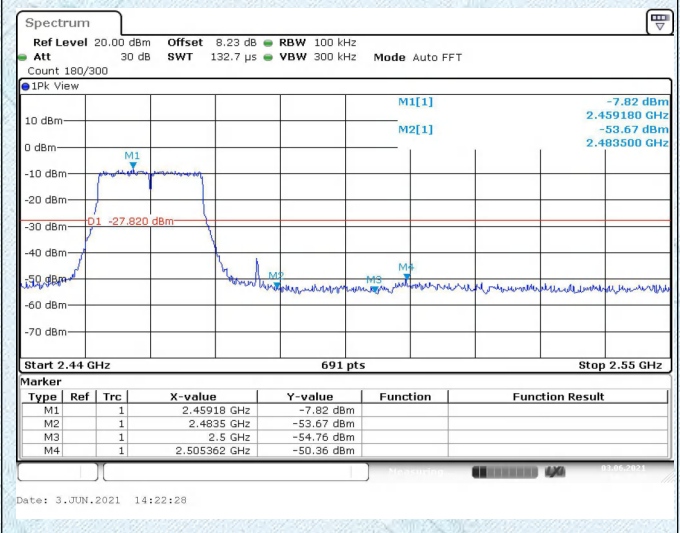
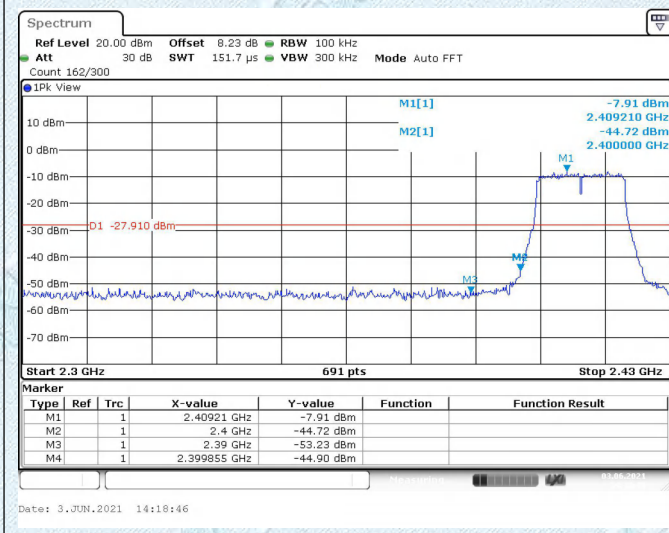
CH11-SE



802.11n(HT20)

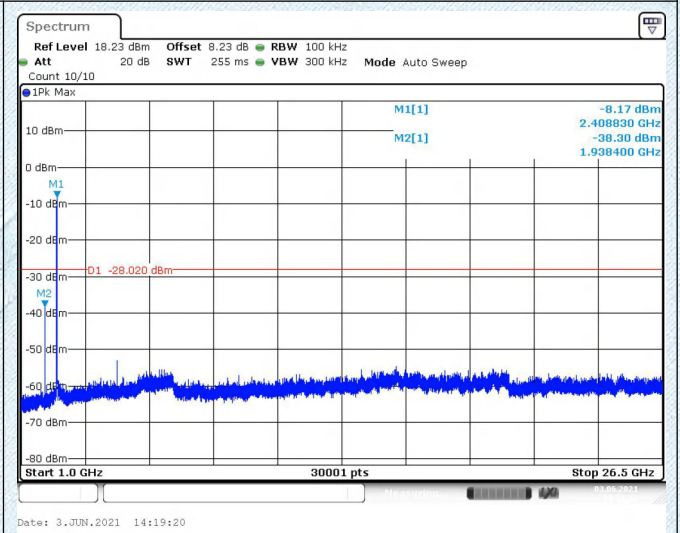
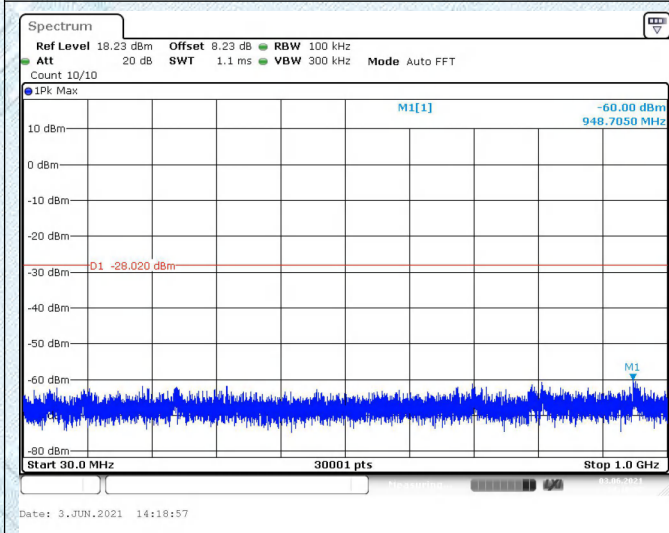
CH01-Bandedge

CH11-Bandedge

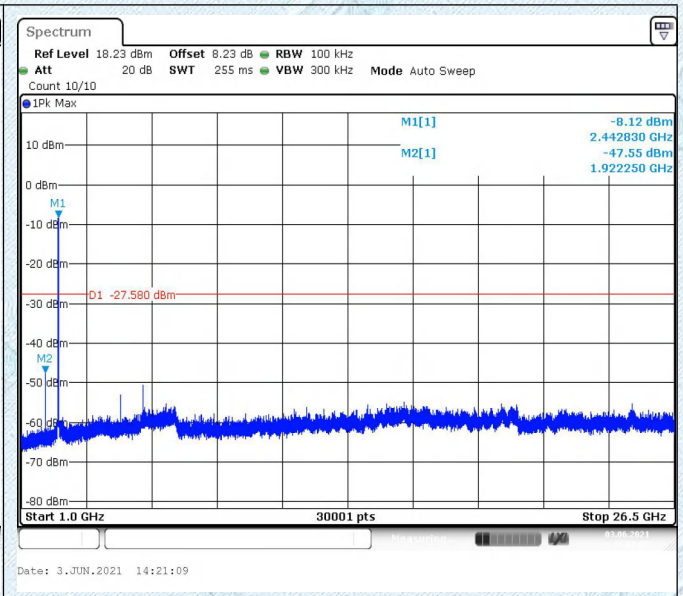
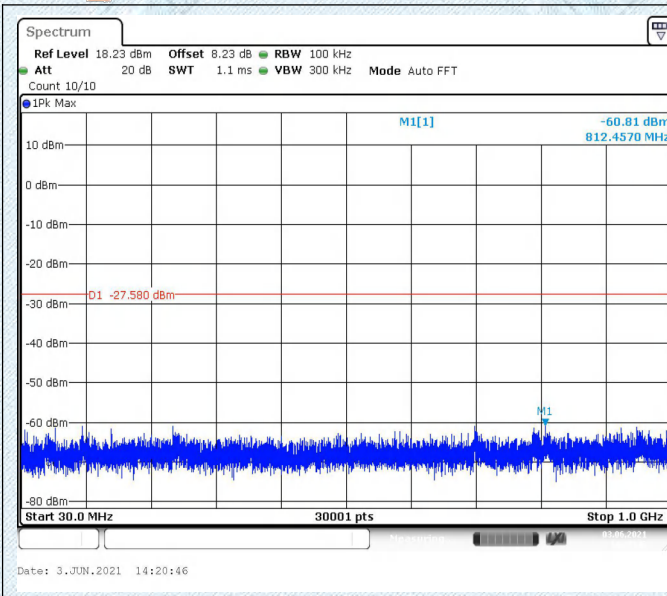


802.11n(HT20)

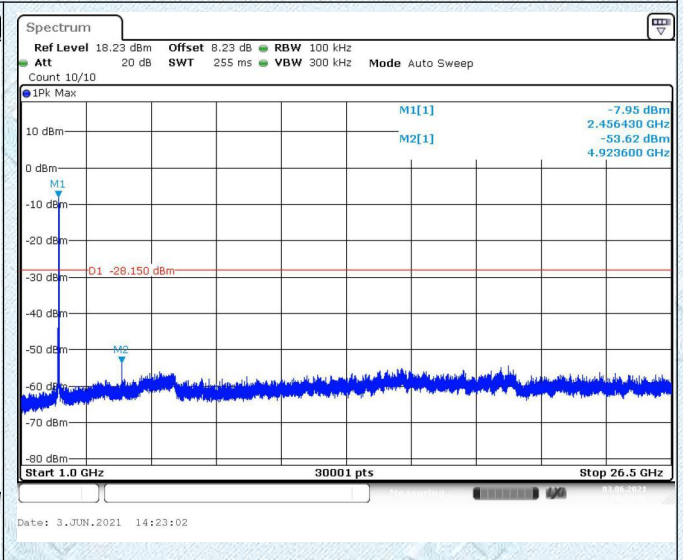
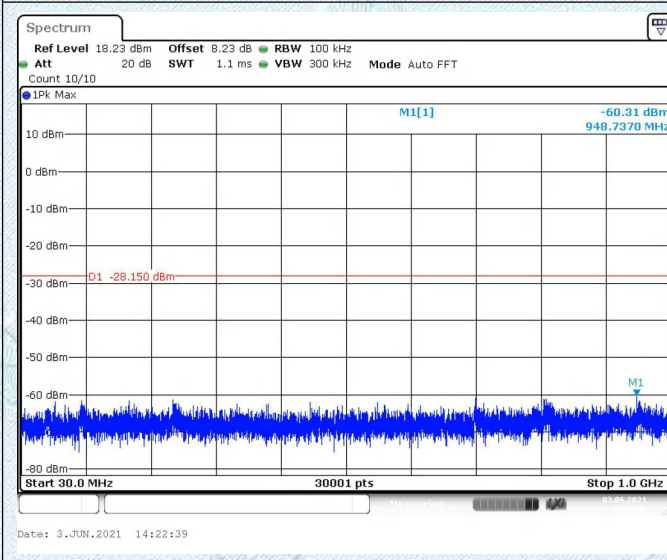
CH01-SE



CH06-SE

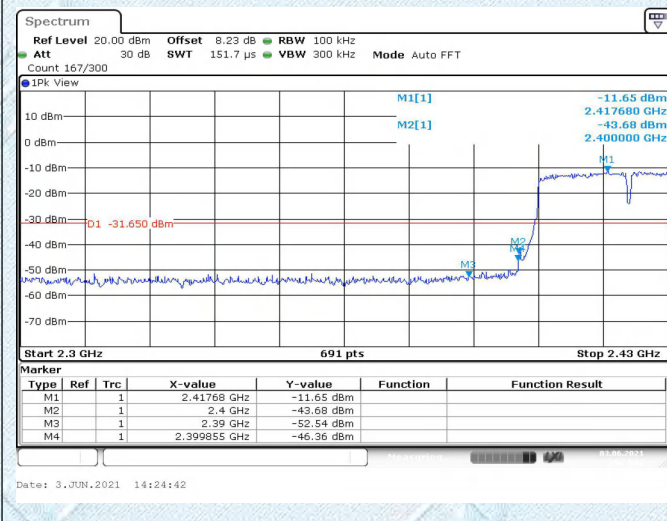


CH11-SE



802.11n(HT40)

CH03-Bandedge

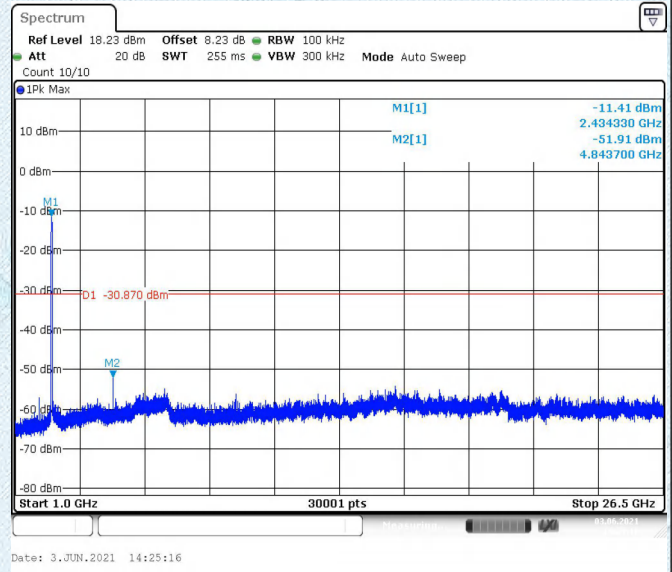
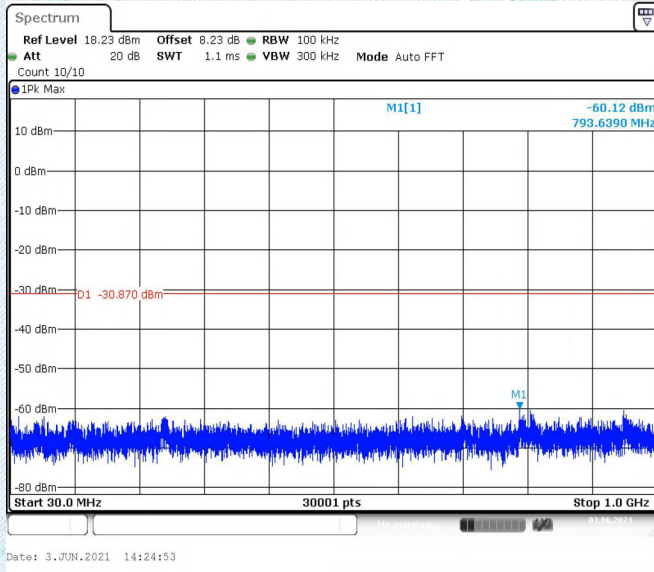


CH09-Bandedge

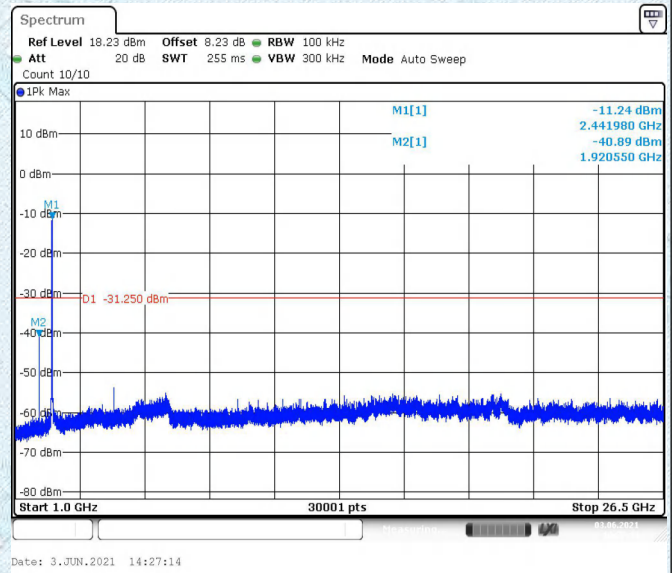
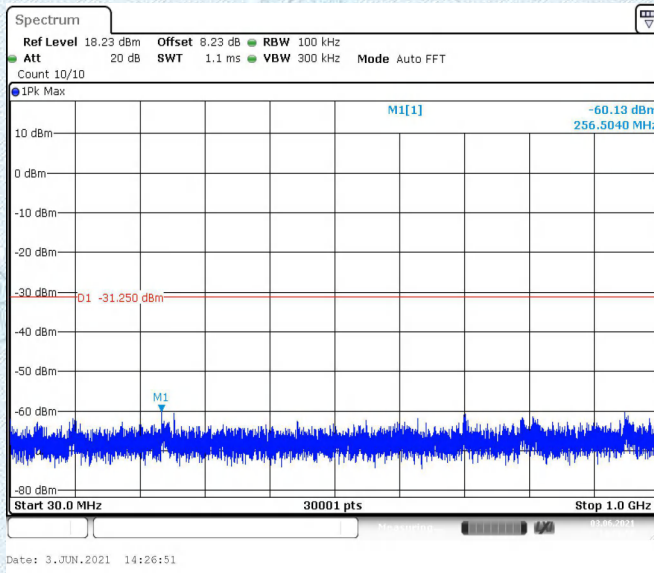


802.11n(HT40)

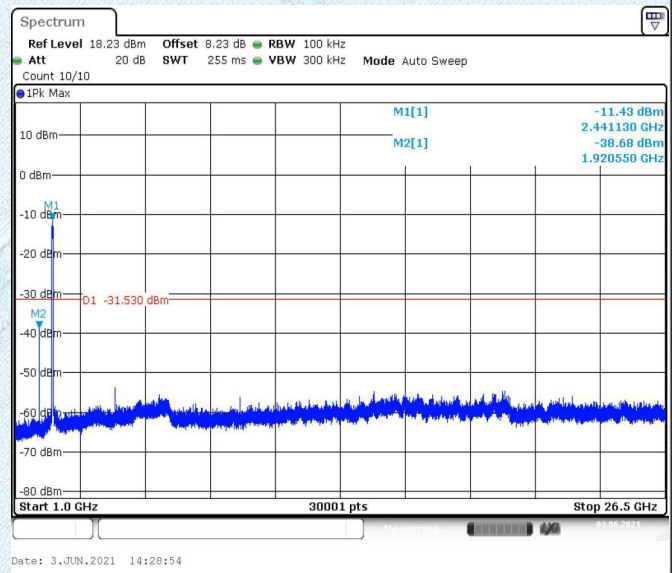
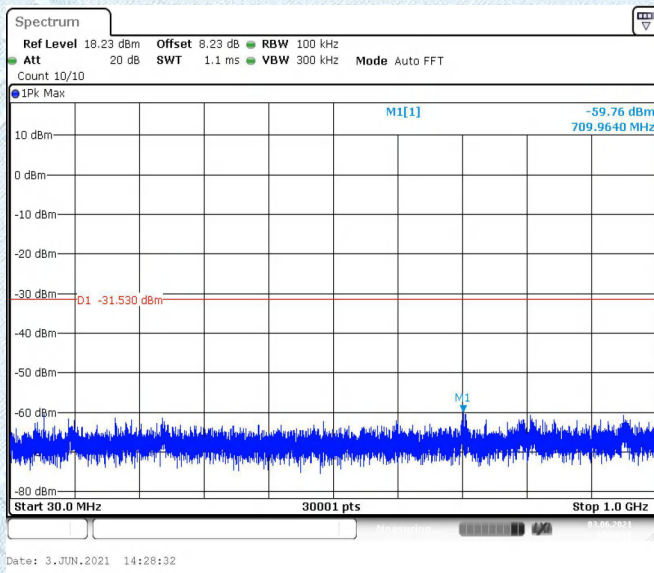
### CH03-SE



### CH06-SE



### CH09-SE



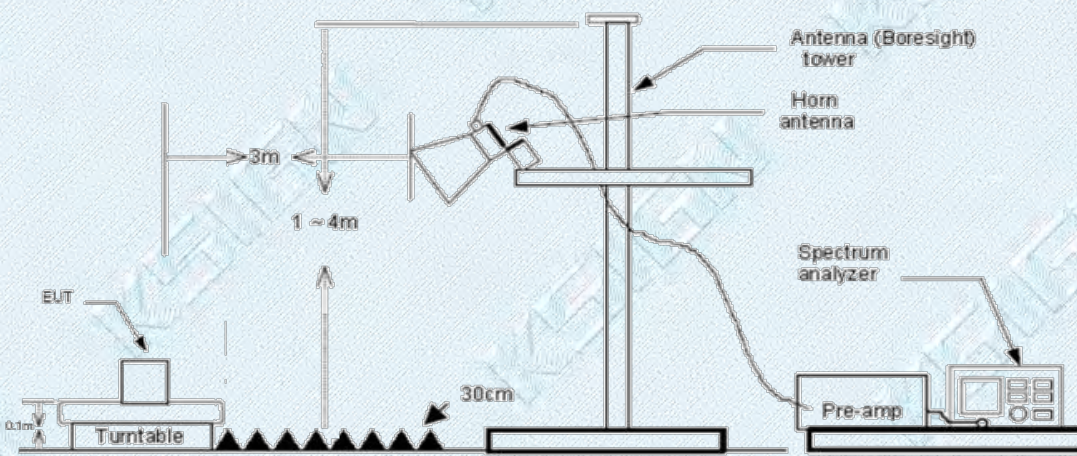
### 3.6. Band Edge Emissions(Radiated)

**Limit**

Restricted Frequency Band (MHz)	(dBuV/m)(at 3m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

**Note: All restriction bands have been tested, only the worst case is reported.**

**Test Configuration**



**Test Procedure**

- 1.The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2.The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3.The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4.The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5.The receiver set as follow:  
 RBW=1MHz, VBW=3MHz PEAK detector for Peak value.  
 RBW=1MHz, VBW=10Hz with PEAK detector for Average Value.

**Test Mode**

Please refer to the clause 2.2.

**Test Results**

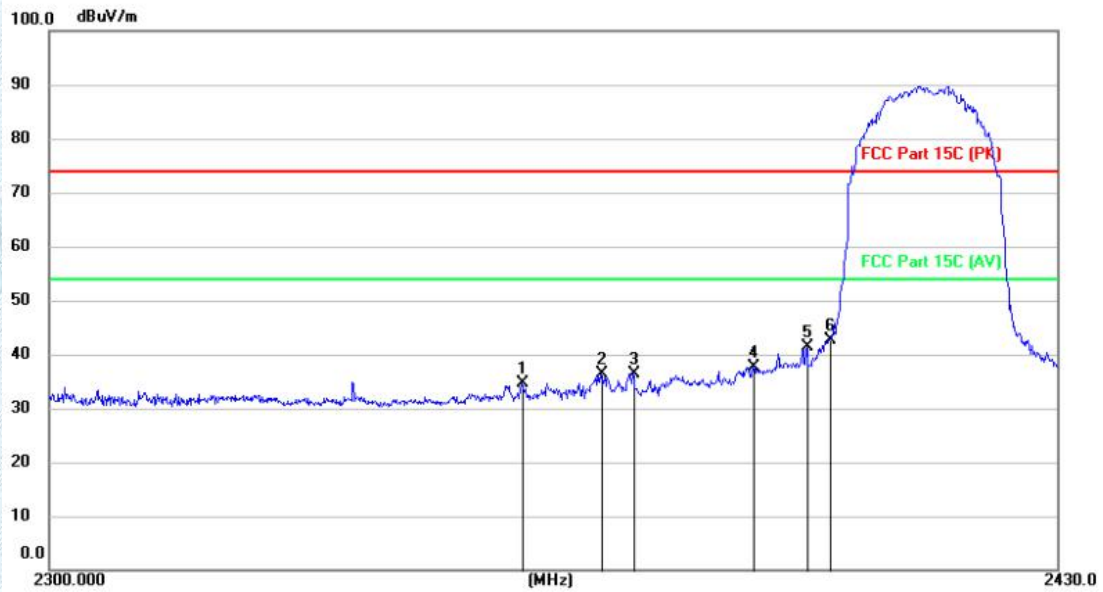
Note:

1.Measurement = Reading level + Correct Factor

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

- 2.Pre-scan 802.11b, 802.11g, 802.11n(HT20) and 802.11n(HT40) mode, and found the 802.11b mode which it is worse case, so only show the test data for worse case.

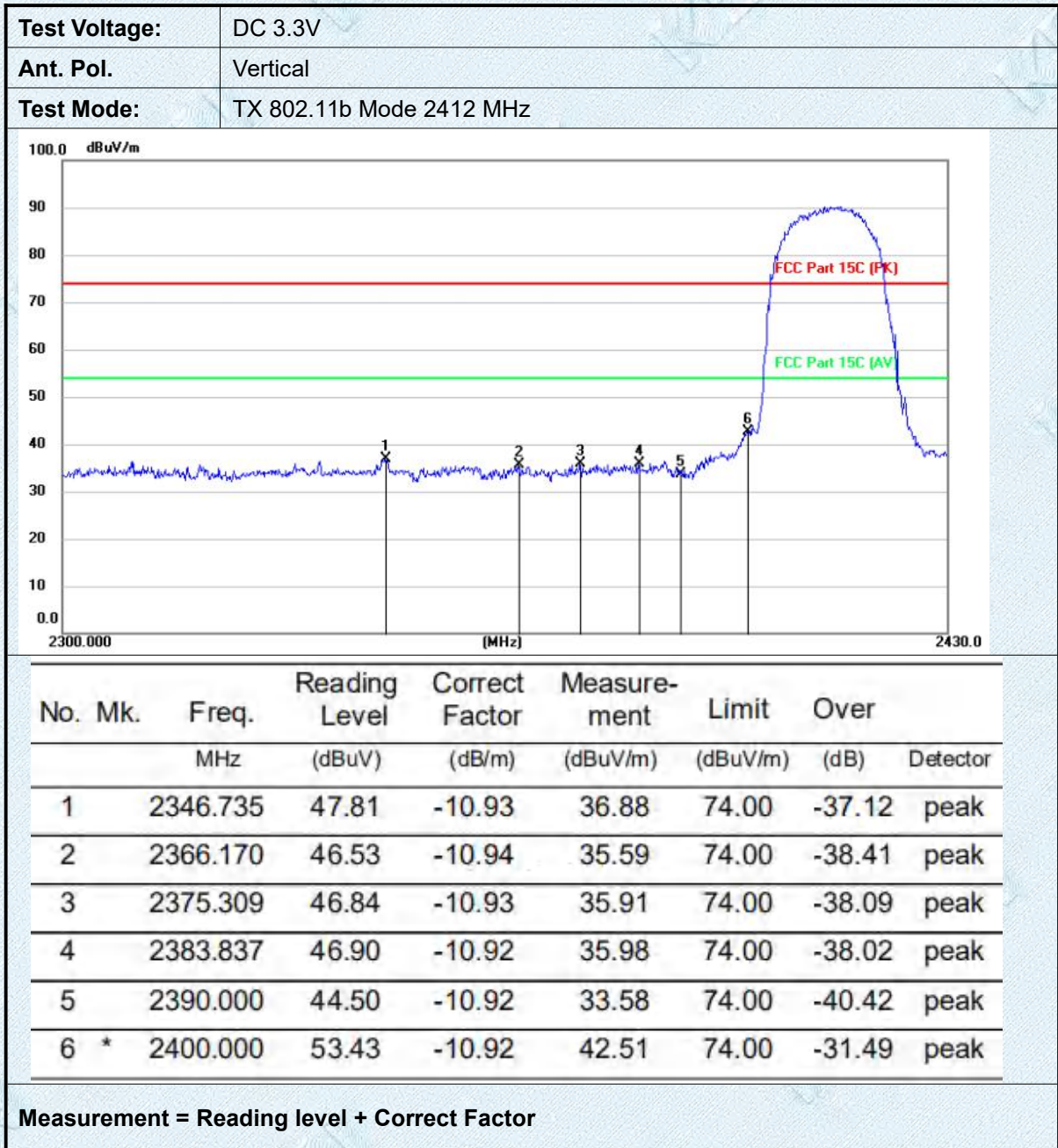
Test Voltage:	DC 3.3V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz



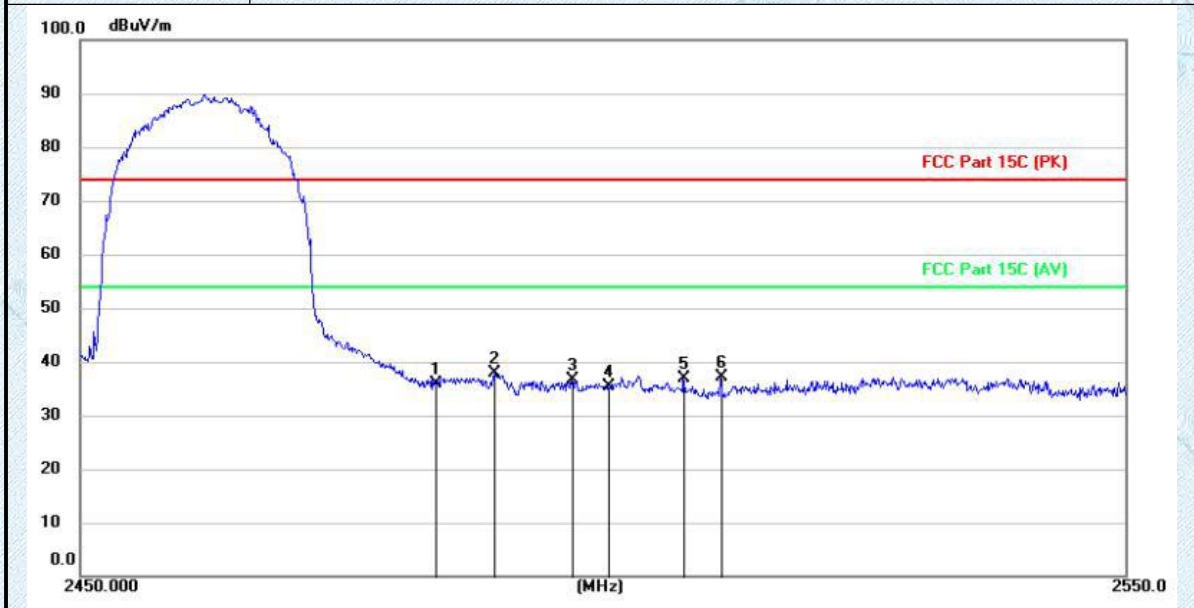
No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		2360.099	45.47	-10.93	34.54	74.00	-39.46	peak
2		2370.226	47.38	-10.92	36.46	74.00	-37.54	peak
3		2374.464	47.39	-10.93	36.46	74.00	-37.54	peak
4		2390.000	48.44	-10.92	37.52	74.00	-36.48	peak
5		2397.162	52.27	-10.92	41.35	74.00	-32.65	peak
6	*	2400.000	53.47	-10.92	42.55	74.00	-31.45	peak

Measurement = Reading level + Correct Factor





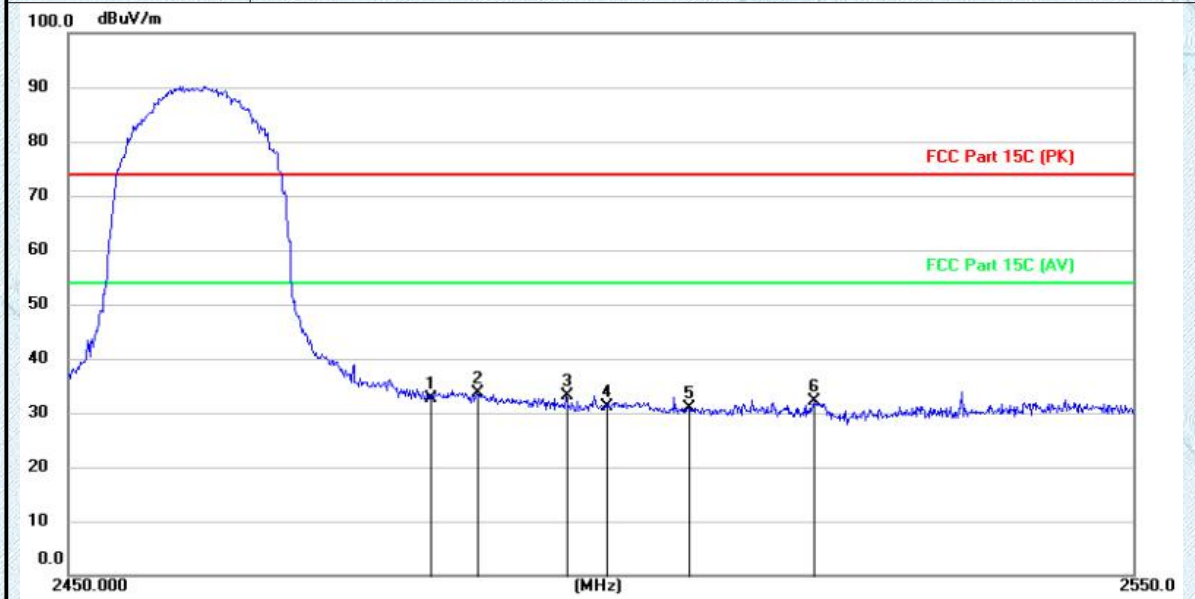
<b>Test Voltage:</b>	DC 3.3V
<b>Ant. Pol.</b>	Horizontal
<b>Test Mode:</b>	TX 802.11b Mode 2462MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		2483.500	46.77	-10.88	35.89	74.00	-38.11	peak
2	*	2489.200	48.84	-10.89	37.95	74.00	-36.05	peak
3		2496.510	47.61	-10.88	36.73	74.00	-37.27	peak
4		2500.000	46.15	-10.88	35.27	74.00	-38.73	peak
5		2507.310	47.83	-10.87	36.96	74.00	-37.04	peak
6		2510.860	48.07	-10.87	37.20	74.00	-36.80	peak

**Measurement = Reading level + Correct Factor**

Test Voltage:	DC 3.3V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2462MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		2483.500	43.51	-10.88	32.63	74.00	-41.37	peak
2	*	2487.870	44.53	-10.88	33.65	74.00	-40.35	peak
3		2496.230	43.92	-10.88	33.04	74.00	-40.96	peak
4		2500.000	42.04	-10.88	31.16	74.00	-42.84	peak
5		2507.740	41.82	-10.87	30.95	74.00	-43.05	peak
6		2519.660	42.89	-10.87	32.02	74.00	-41.98	peak

Measurement = Reading level + Correct Factor

### 3.7. Spurious Emission (Radiated)

**Limit**

**Radiated Emission Limits (9 kHz~1000 MHz)**

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

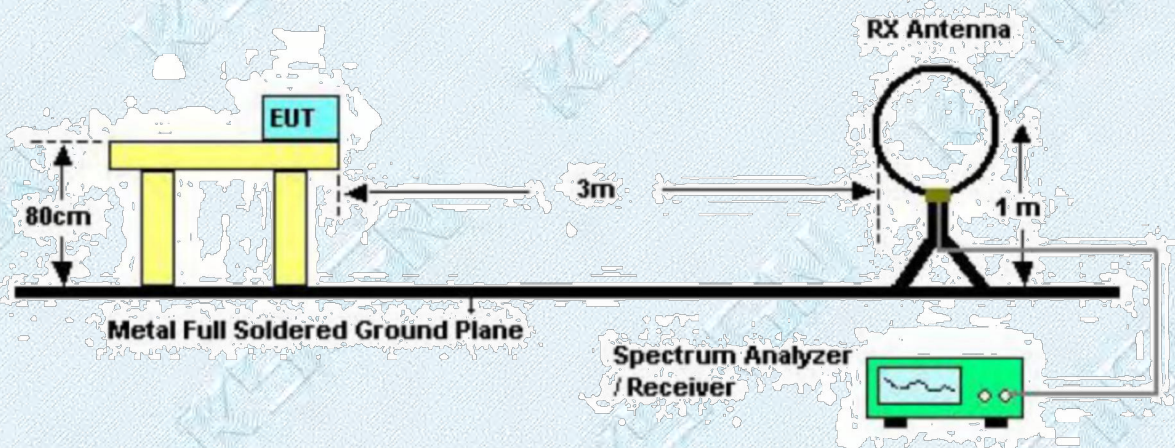
**Radiated Emission Limit (Above 1000MHz)**

Frequency (MHz)	Distance Meters(at 3m)	
	Peak	Average
Above 1000	74	54

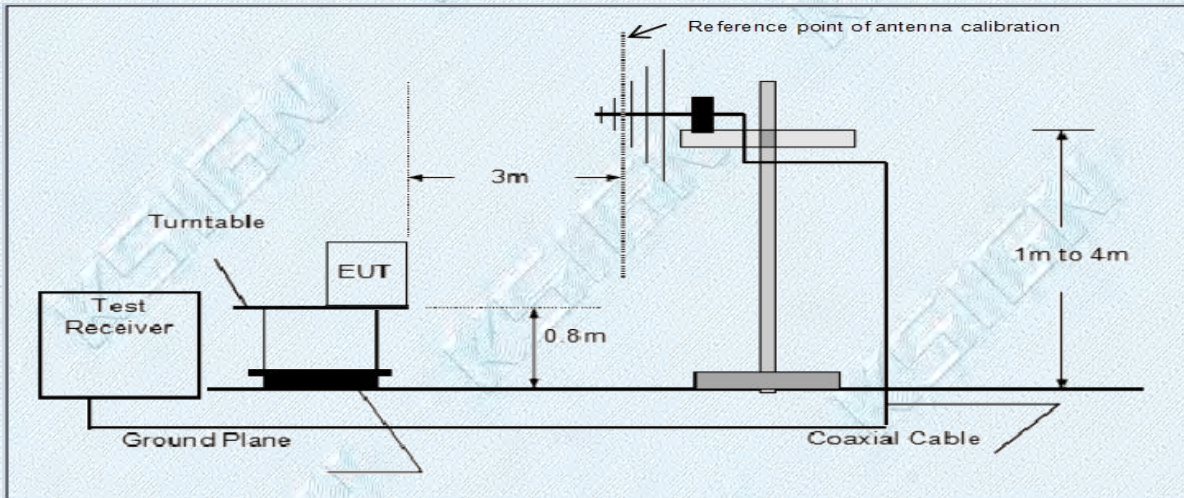
**Note:**

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

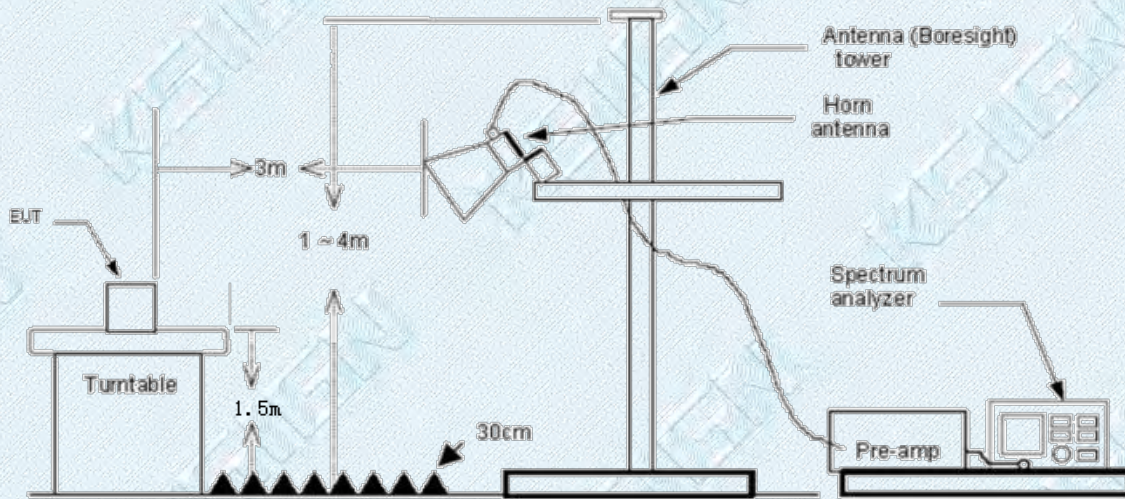
**Test Configuration**



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

### Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz:  
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;  
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) From 1 GHz to 10<sup>th</sup> harmonic:  
RBW=1MHz, VBW=1MHz Peak detector for Peak value.  
RBW=1MHz, VBW=10Hz Peak detector for Peak value.

**Test Mode**

Please refer to the clause 2.2

**Test Result****9 KHz~30 MHz and 18GHz~25GHz**

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

1) Measurement = Reading level + Correct Factor

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

2) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.

3) The emission levels of other frequencies are very lower than the limit and not show in test report.

4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

5) Pre-scan 802.11b/g/n(HT20/HT40) modulation, found the 802.11b modulation which it is worse case for above 1GHz, so only show the test data for worse case.

**BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

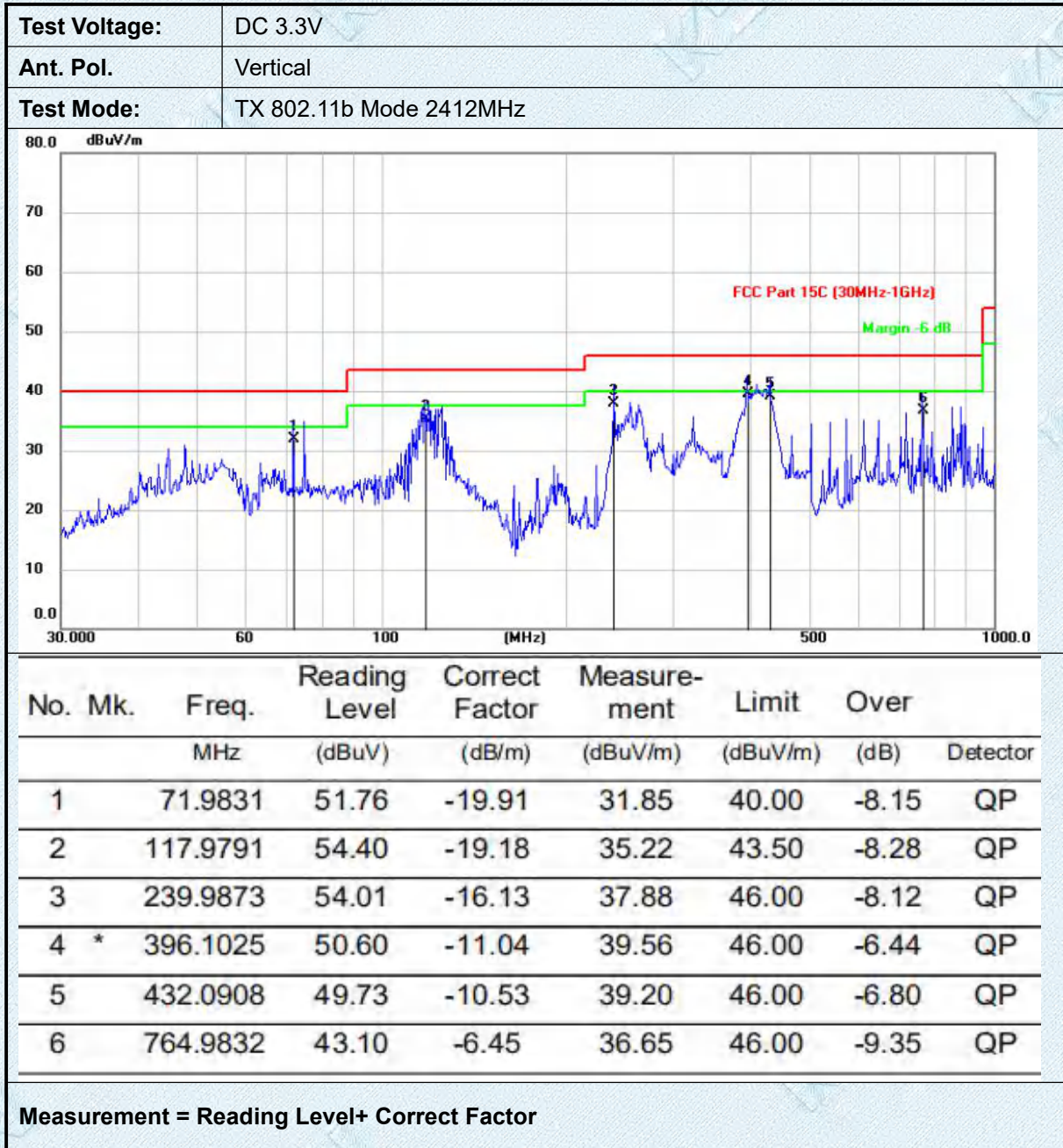
30MHz-1GHz

Test Voltage:	DC 3.3V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1	*	122.7048	56.98	-19.75	37.23	43.50	-6.27	QP
2		192.0141	52.96	-18.34	34.62	43.50	-8.88	QP
3		239.9030	55.47	-16.13	39.34	46.00	-6.66	QP
4		324.0013	48.92	-13.64	35.28	46.00	-10.72	QP
5		395.9637	50.34	-11.04	39.30	46.00	-6.70	QP
6		615.0761	44.36	-7.58	36.78	46.00	-9.22	QP

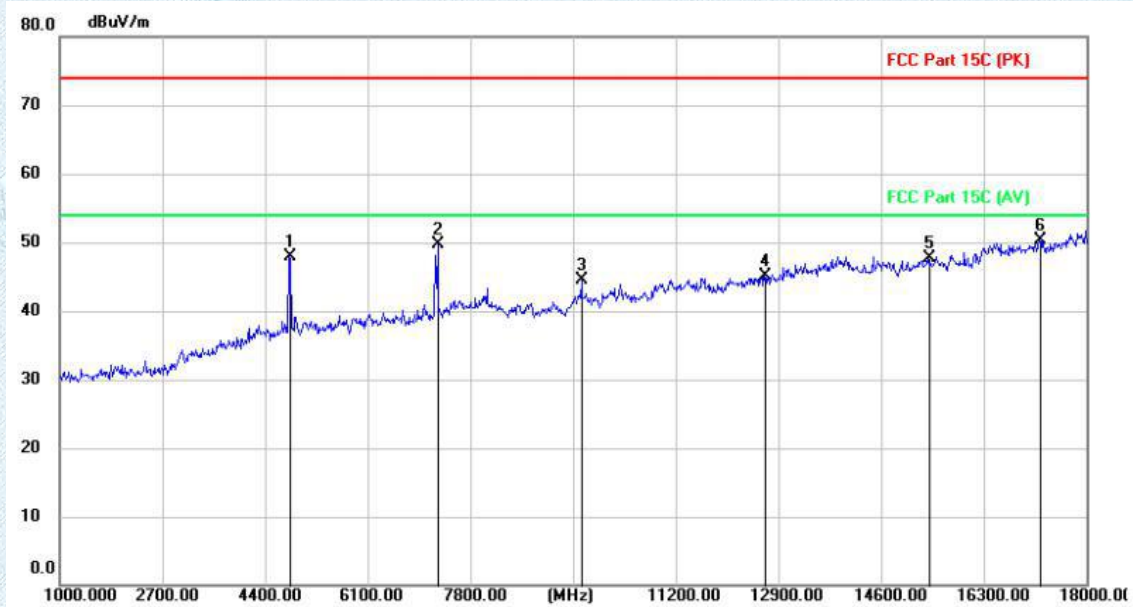
Measurement = Reading Level+ Correct Factor





Adobe 1GHz

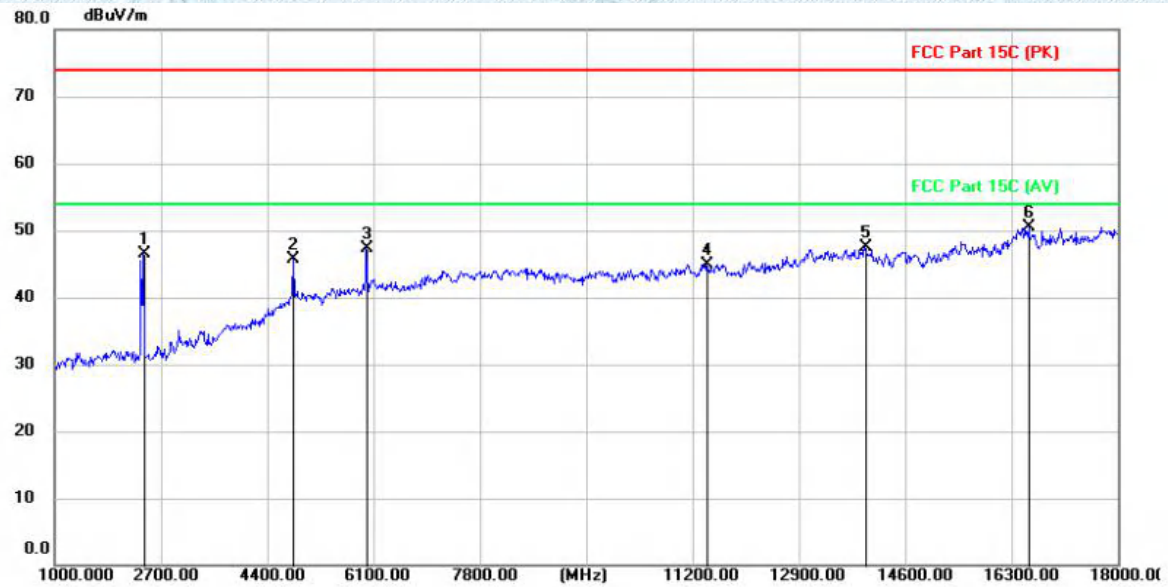
Test Voltage:	DC 3.3V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		4796.100	53.90	-5.95	47.95	74.00	-26.05	peak
2		7261.100	49.67	0.10	49.77	74.00	-24.23	peak
3		9647.900	41.21	3.30	44.51	74.00	-29.49	peak
4		12677.300	35.73	9.30	45.03	74.00	-28.97	peak
5		15388.800	35.81	11.95	47.76	74.00	-26.24	peak
6	*	17226.500	37.03	13.19	50.22	74.00	-23.78	peak

Measurement = Reading level + Correct Factor

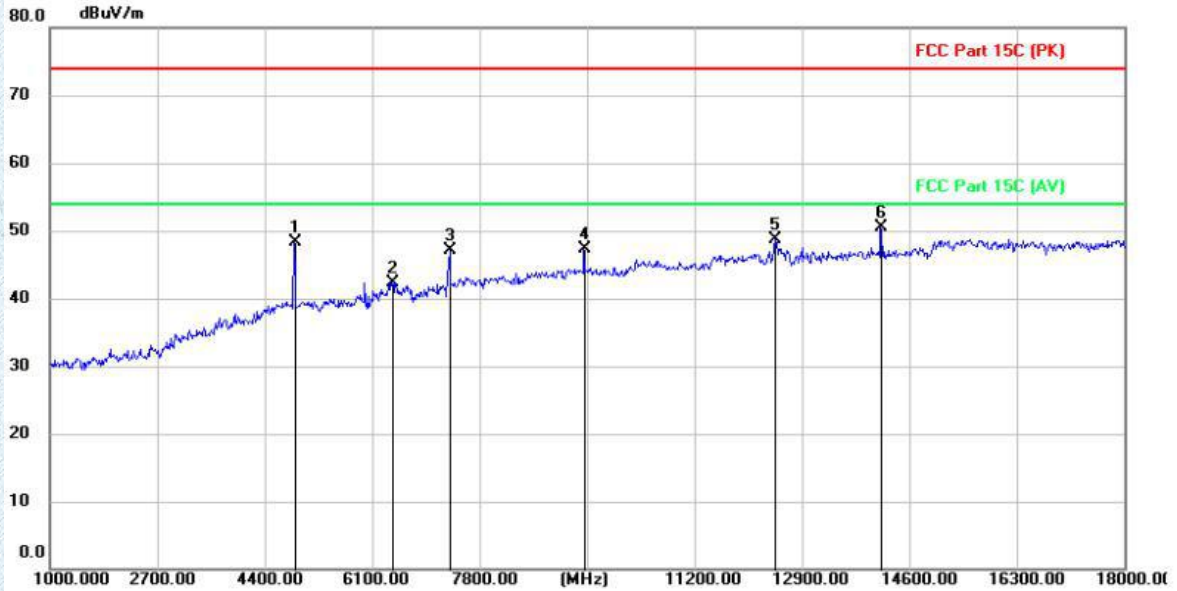
Test Voltage:	DC 3.3V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		2412.000	57.38	-10.92	46.46	74.00	-27.54	peak
2		4823.300	51.63	-5.87	45.76	74.00	-28.24	peak
3		5994.600	51.21	-3.81	47.40	74.00	-26.60	peak
4		11429.500	38.26	6.70	44.96	74.00	-29.04	peak
5		13959.100	36.25	11.18	47.43	74.00	-26.57	peak
6	*	16580.500	36.73	13.68	50.41	74.00	-23.59	peak

Measurement = Reading level + Correct Factor

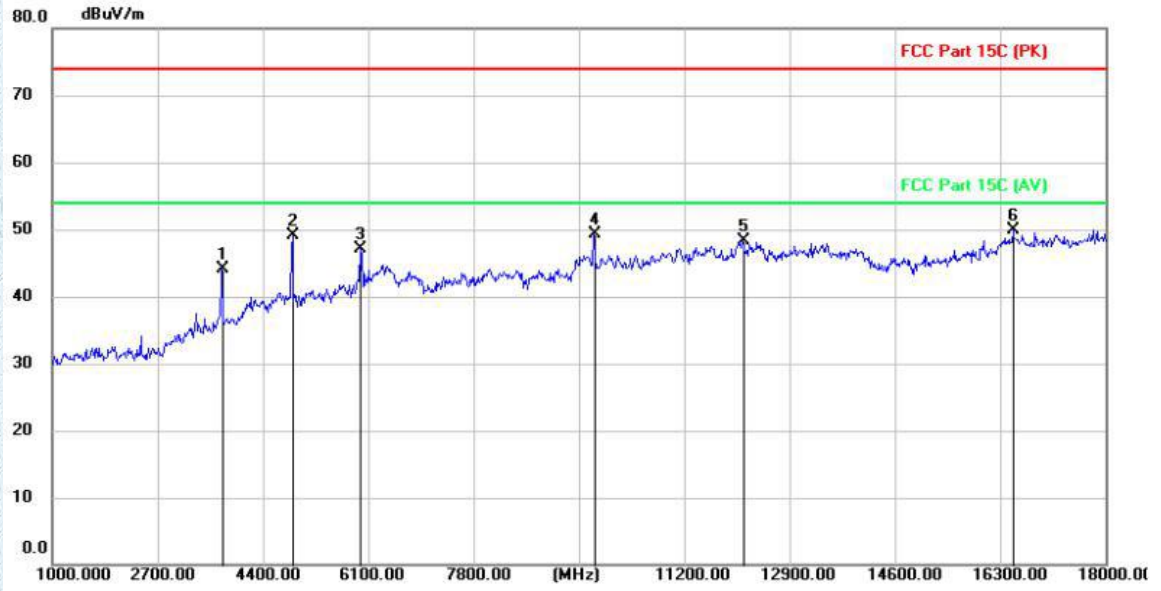
Test Voltage:	DC 3.3V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2437MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		4874.300	54.08	-5.74	48.34	74.00	-25.66	peak
2		6419.600	44.69	-2.39	42.30	74.00	-31.70	peak
3		7337.600	46.84	0.32	47.16	74.00	-26.84	peak
4		9459.200	44.45	2.88	47.33	74.00	-26.67	peak
5		12475.000	39.83	8.91	48.74	74.00	-25.26	peak
6	*	14149.500	39.43	11.03	50.46	74.00	-23.54	peak

Measurement = Reading level + Correct Factor

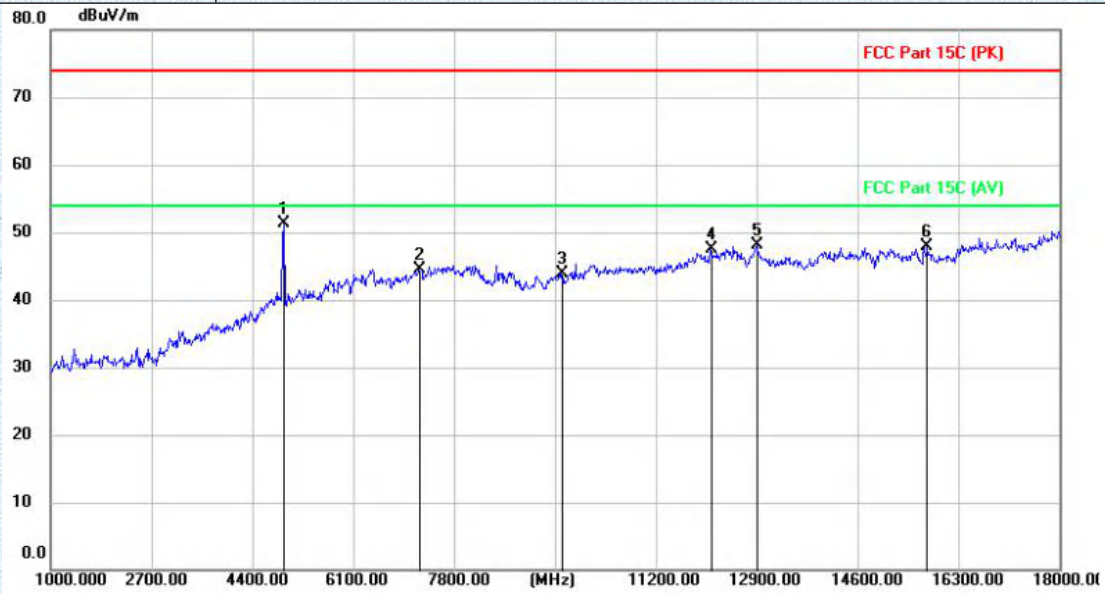
<b>Test Voltage:</b>	DC 3.3V
<b>Ant. Pol.</b>	Vertical
<b>Test Mode:</b>	TX 802.11b Mode 2437MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		3742.100	53.22	-9.08	44.14	74.00	-29.86	peak
2		4875.000	54.90	-5.73	49.17	74.00	-24.83	peak
3		5977.600	50.98	-3.85	47.13	74.00	-26.87	peak
4		9748.200	45.74	3.52	49.26	74.00	-24.74	peak
5		12138.400	40.10	8.19	48.29	74.00	-25.71	peak
6	*	16512.500	36.14	13.79	49.93	74.00	-24.07	peak

Measurement = Reading level + Correct Factor

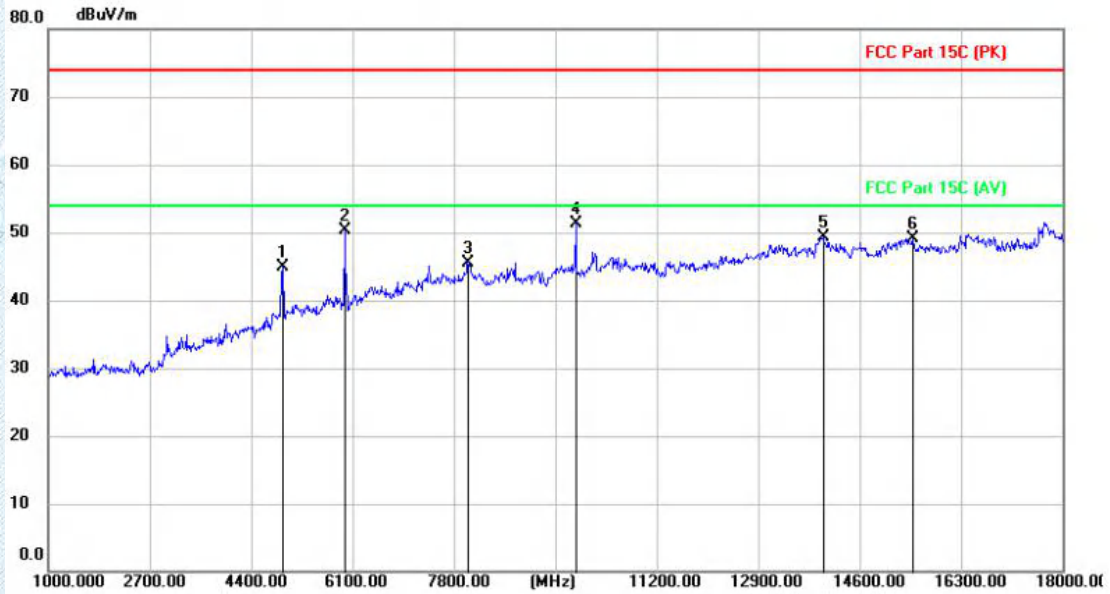
Test Voltage:	DC 3.3V
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2462MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1	*	4927.000	56.93	-5.59	51.34	74.00	-22.66	peak
2		7220.300	44.47	-0.04	44.43	74.00	-29.57	peak
3		9608.800	40.76	3.21	43.97	74.00	-30.03	peak
4		12124.800	39.31	8.16	47.47	74.00	-26.53	peak
5		12908.500	38.28	9.76	48.04	74.00	-25.96	peak
6		15773.000	35.49	12.35	47.84	74.00	-26.16	peak

Measurement = Reading level + Correct Factor

Test Voltage:	DC 3.3V
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2462MHz



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measure- ment (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		4927.000	50.54	-5.59	44.95	74.00	-29.05	peak
2		5977.600	54.17	-3.85	50.32	74.00	-23.68	peak
3		8034.600	43.47	2.07	45.54	74.00	-28.46	peak
4	*	9848.500	47.54	3.74	51.28	74.00	-22.72	peak
5		14001.600	38.05	11.23	49.28	74.00	-24.72	peak
6		15485.700	37.14	12.04	49.18	74.00	-24.82	peak

Measurement = Reading level + Correct Factor

### 3.8. Conducted Emission

#### Limit

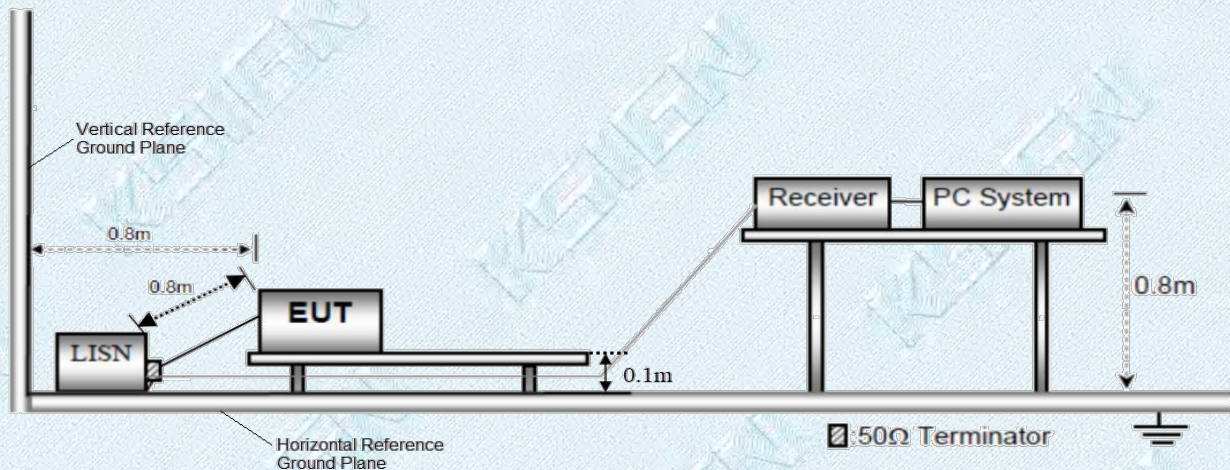
Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### Test Configuration



#### Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 0.1m above the conducting ground plane. The vertical conducting plane was located 80 cm to the rear of the EUT. All other surfaces of EUT were at least 0.8m from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

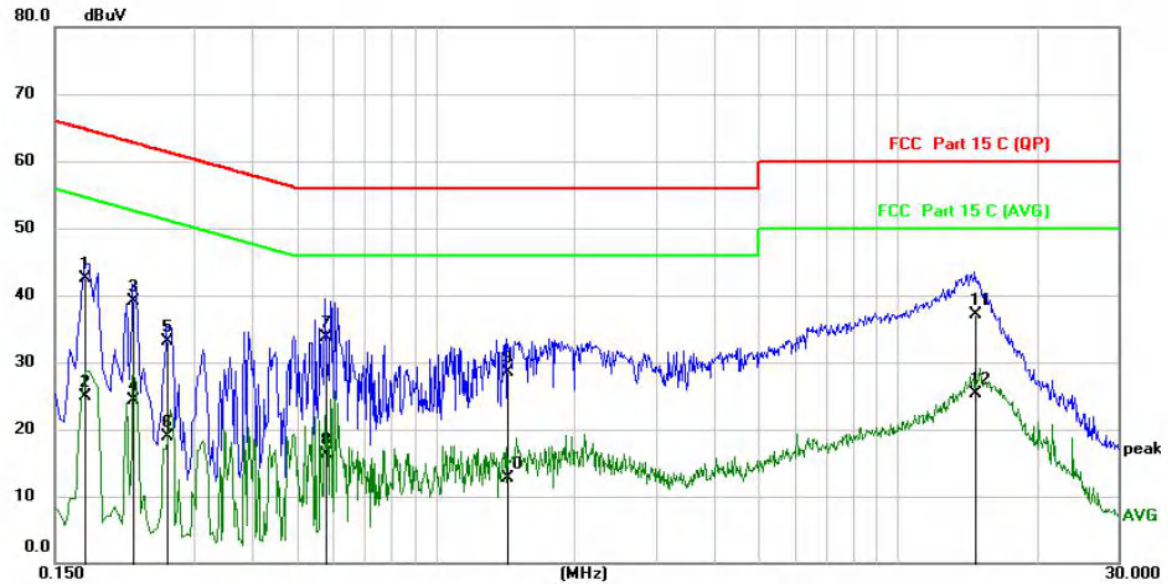
#### Test Mode:

Please refer to the clause 2.2.

#### Test Results

Pre-scan 802.11b/g/n(HT20/HT40) modulation, and found the 802.11b modulation 2412MHz which it is worse case, so only show the test data for worse case.

<b>Test Voltage:</b>	AC 120V/60Hz
<b>Terminal:</b>	Line
<b>Test Mode:</b>	Charging +802.11b-2412MHz

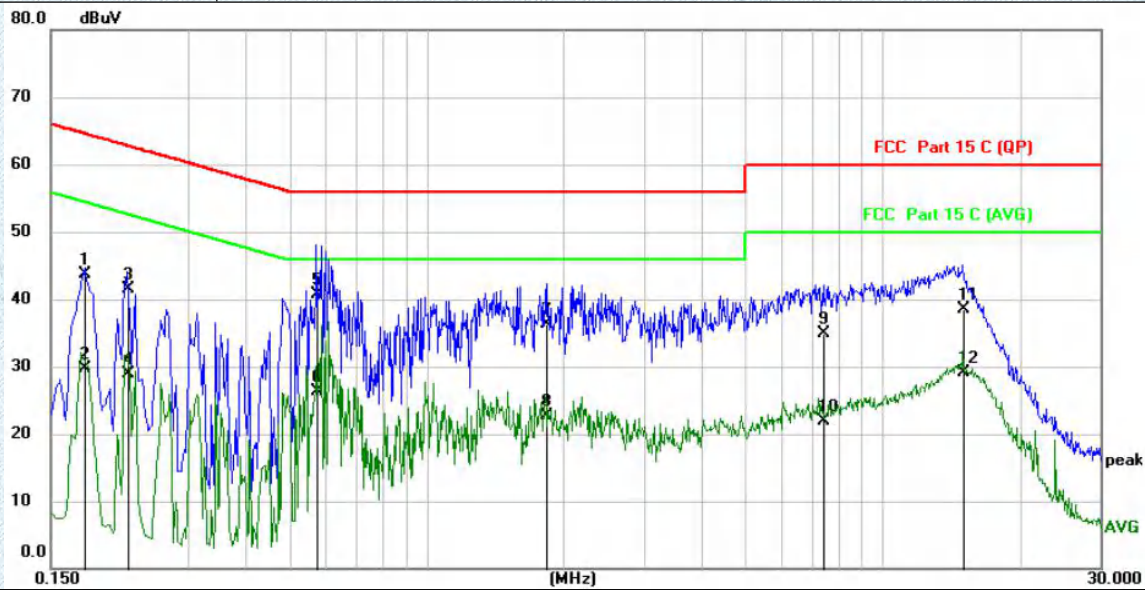


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.1740	31.79	10.73	42.52	64.77	-22.25	QP
2		0.1740	14.25	10.73	24.98	54.77	-29.79	AVG
3		0.2220	28.31	10.75	39.06	62.74	-23.68	QP
4		0.2220	13.46	10.75	24.21	52.74	-28.53	AVG
5		0.2620	22.36	10.68	33.04	61.37	-28.33	QP
6		0.2620	8.18	10.68	18.86	51.37	-32.51	AVG
7		0.5780	23.27	10.46	33.73	56.00	-22.27	QP
8		0.5780	5.77	10.46	16.23	46.00	-29.77	AVG
9		1.4299	17.99	10.42	28.41	56.00	-27.59	QP
10		1.4299	2.22	10.42	12.64	46.00	-33.36	AVG
11		14.6940	26.28	10.77	37.05	60.00	-22.95	QP
12		14.6940	14.53	10.77	25.30	50.00	-24.70	AVG

Remarks:  
 1.Measurement = Reading Level+ Correct Factor  
 2.Over = Measurement -Limit



<b>Test Voltage:</b>	AC 120V/60Hz
<b>Terminal:</b>	Neutral
<b>Test Mode:</b>	Charging+802.11b-2412MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1780	32.96	10.74	43.70	64.58	-20.88	QP
2		0.1780	19.06	10.74	29.80	54.58	-24.78	AVG
3		0.2220	30.81	10.73	41.54	62.74	-21.20	QP
4		0.2220	18.25	10.73	28.98	52.74	-23.76	AVG
5	*	0.5740	30.31	10.48	40.79	56.00	-15.21	QP
6		0.5740	15.78	10.48	26.26	46.00	-19.74	AVG
7		1.8300	25.78	10.54	36.32	56.00	-19.68	QP
8		1.8300	12.21	10.54	22.75	46.00	-23.25	AVG
9		7.4420	24.25	10.57	34.82	60.00	-25.18	QP
10		7.4420	11.33	10.57	21.90	50.00	-28.10	AVG
11		15.0060	27.66	10.77	38.43	60.00	-21.57	QP
12		15.0060	18.35	10.77	29.12	50.00	-20.88	AVG

**Remarks:**

- 1.Measurement = Reading Level+ Correct Factor
- 2.Over = Measurement -Limit

## 4.EUT TEST PHOTOS

Radiated Emissions (30MHz~1000MHz)



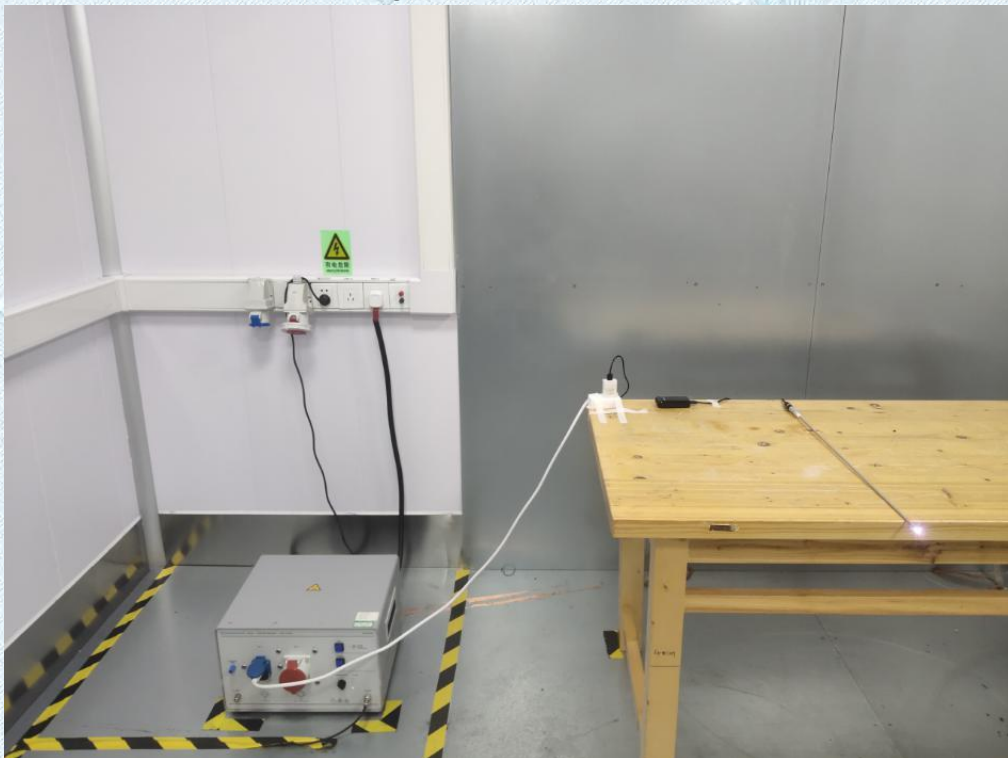
Radiated Emissions (Above 1GHz)



RF Conducted



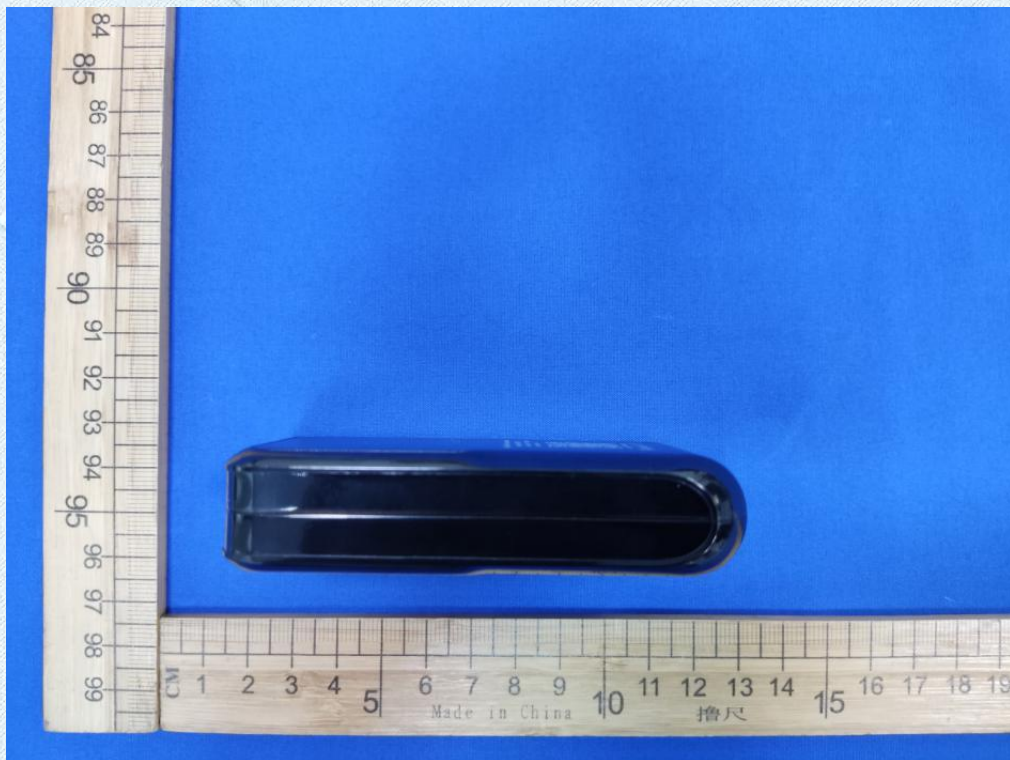
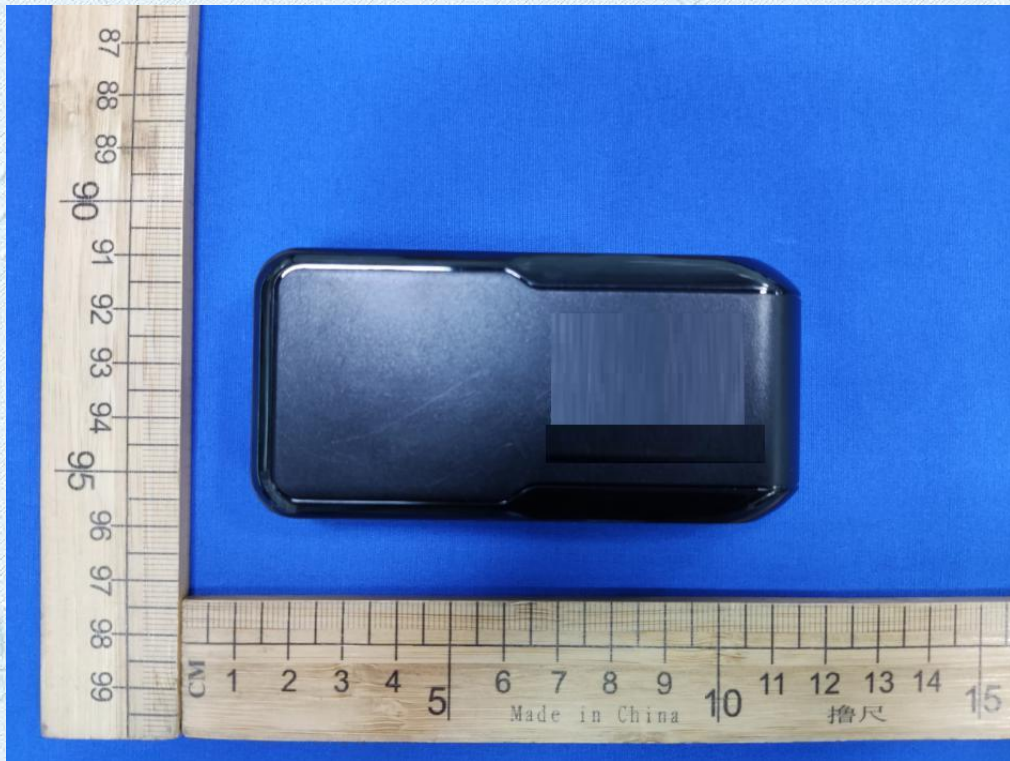
Conducted Emission



## 5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

### External Photographs



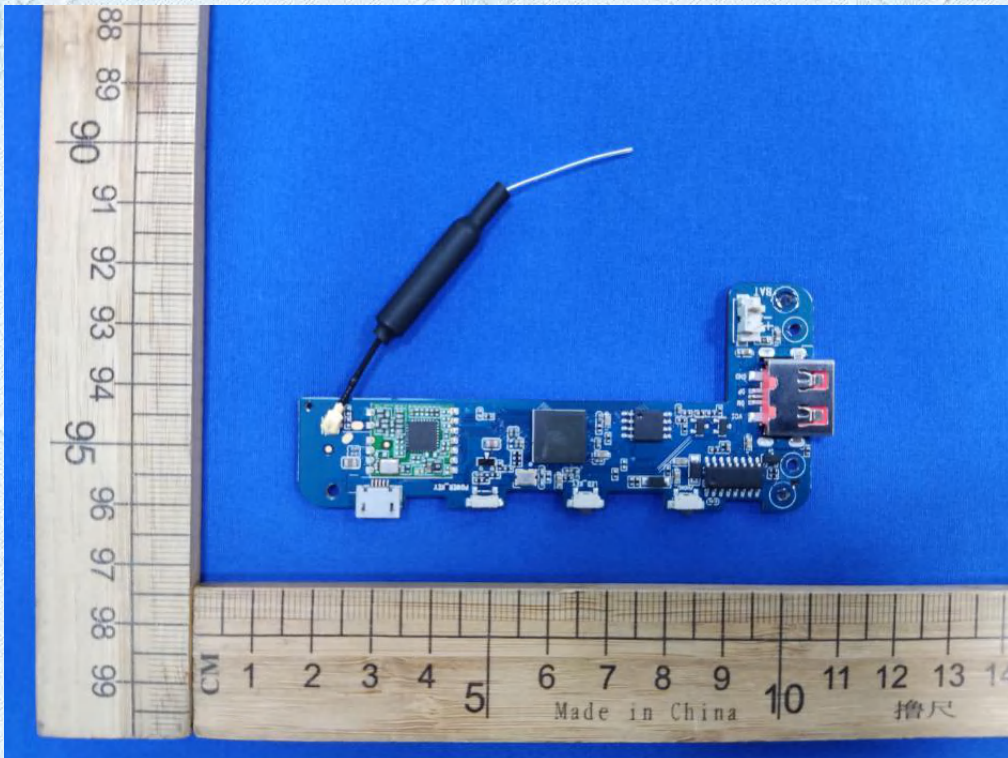




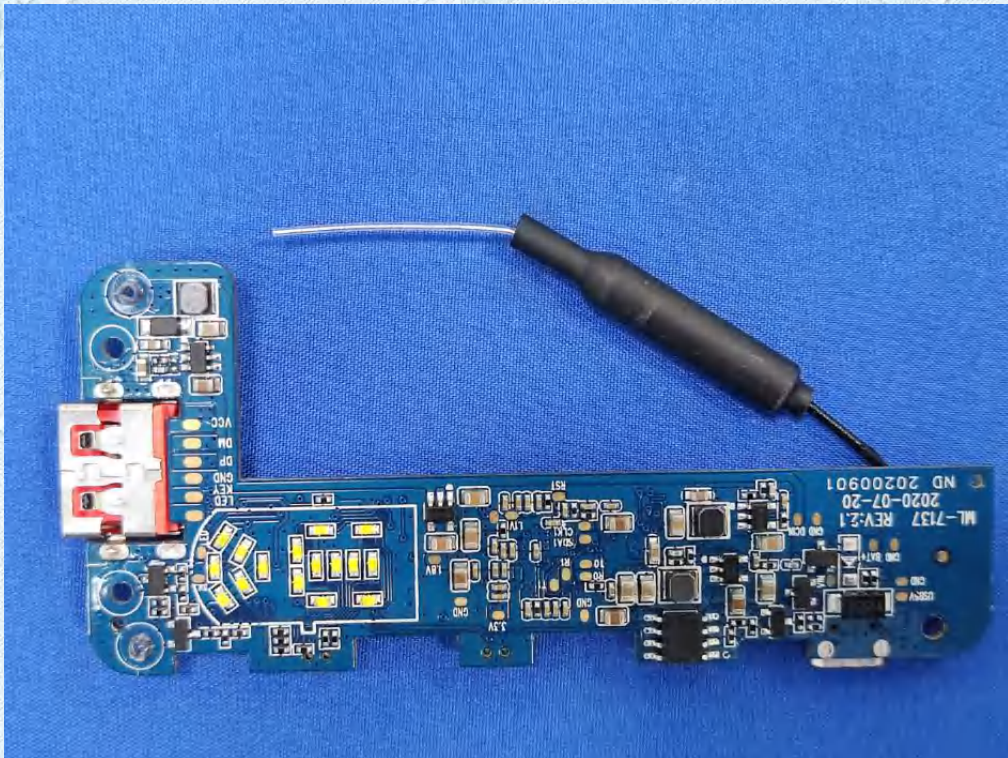
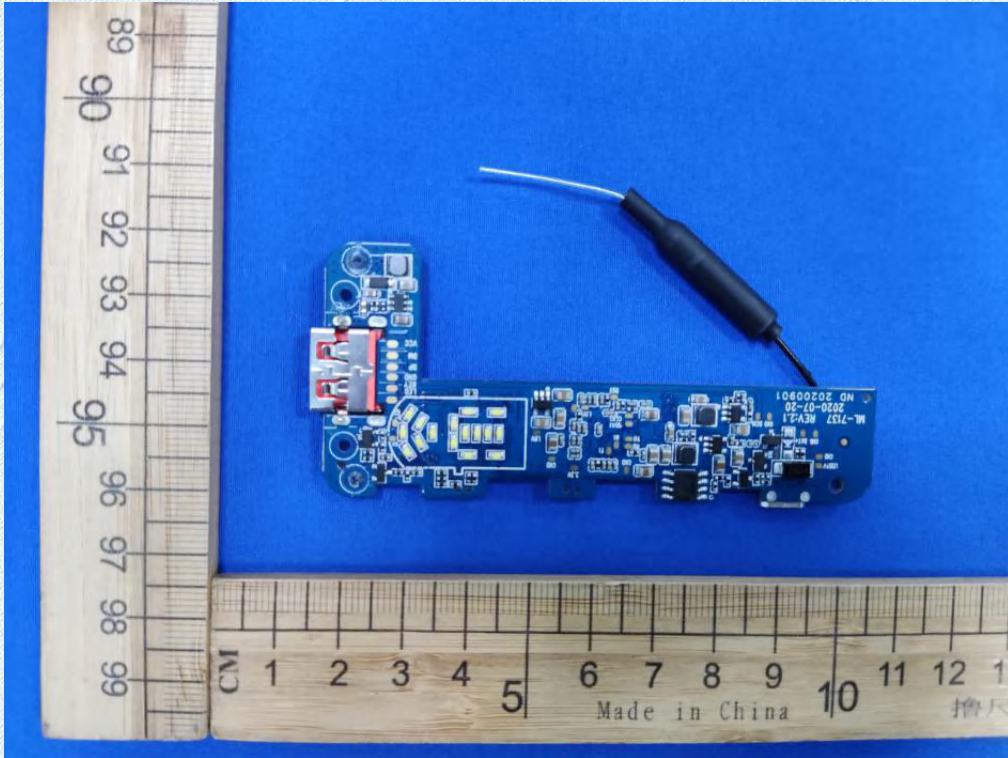


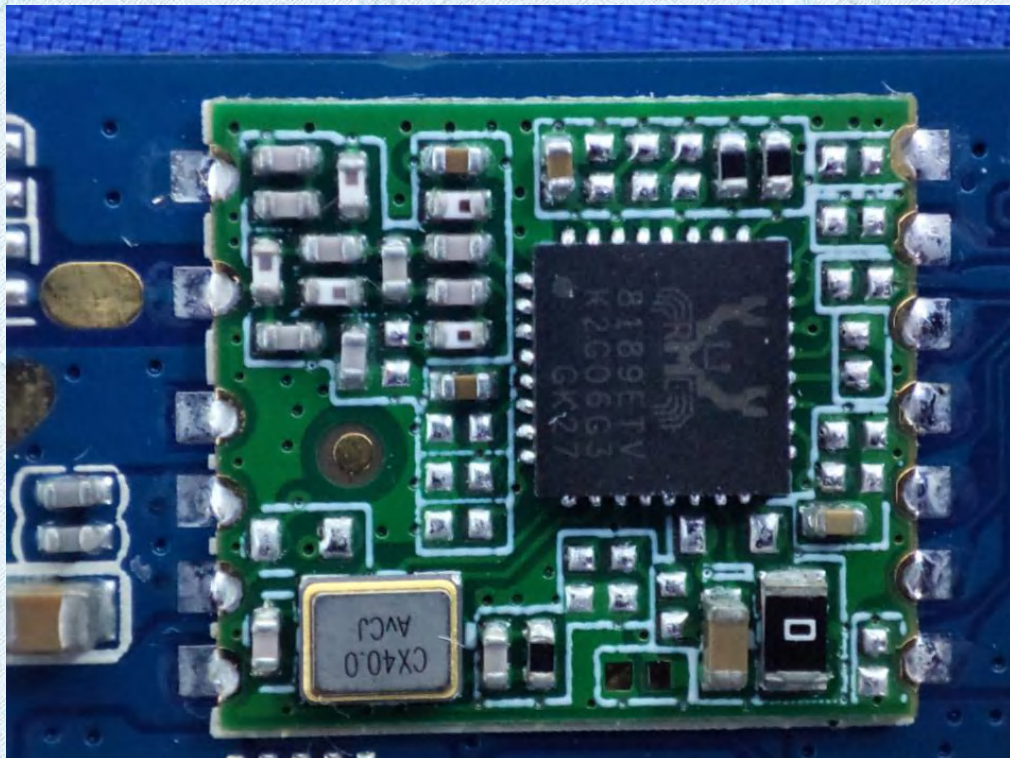
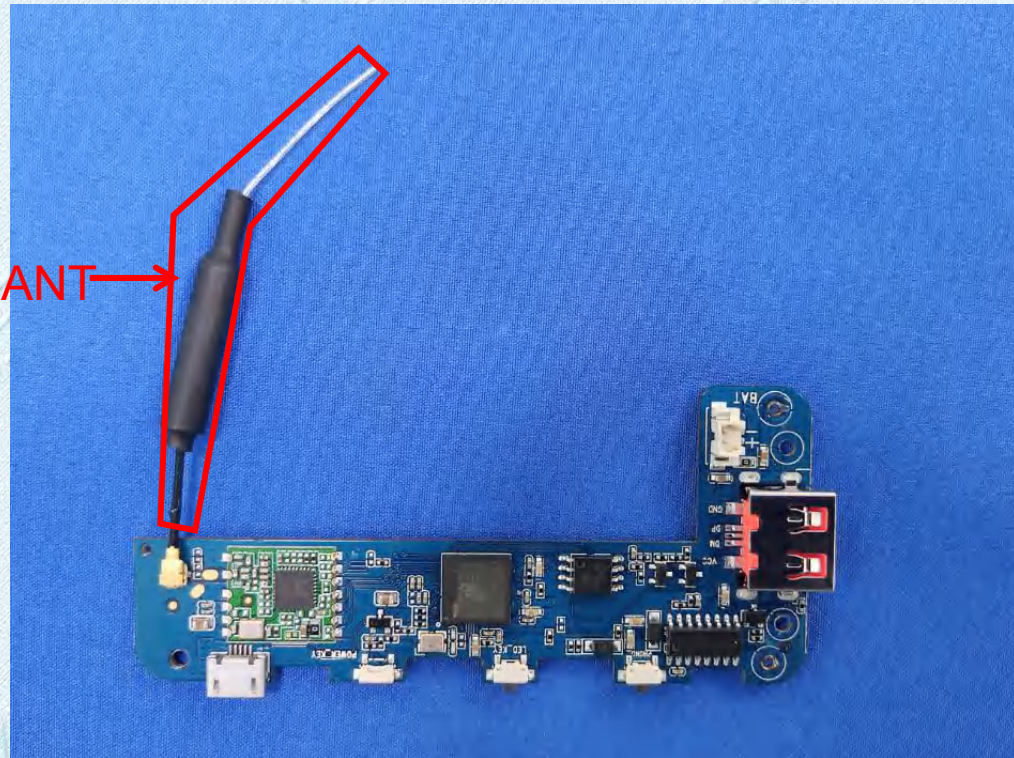
**Internal Photographs**











\*\*\*\*\*THE END\*\*\*\*\*