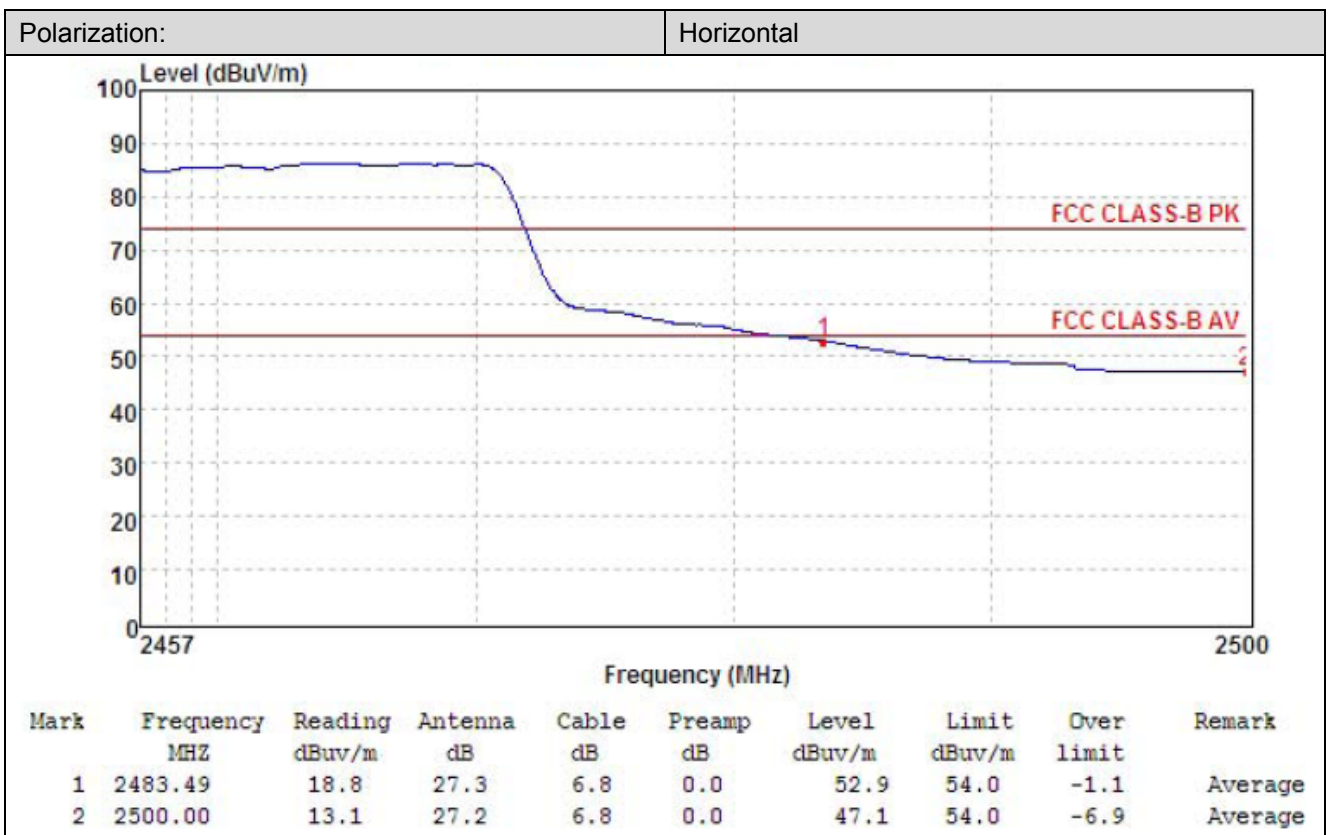
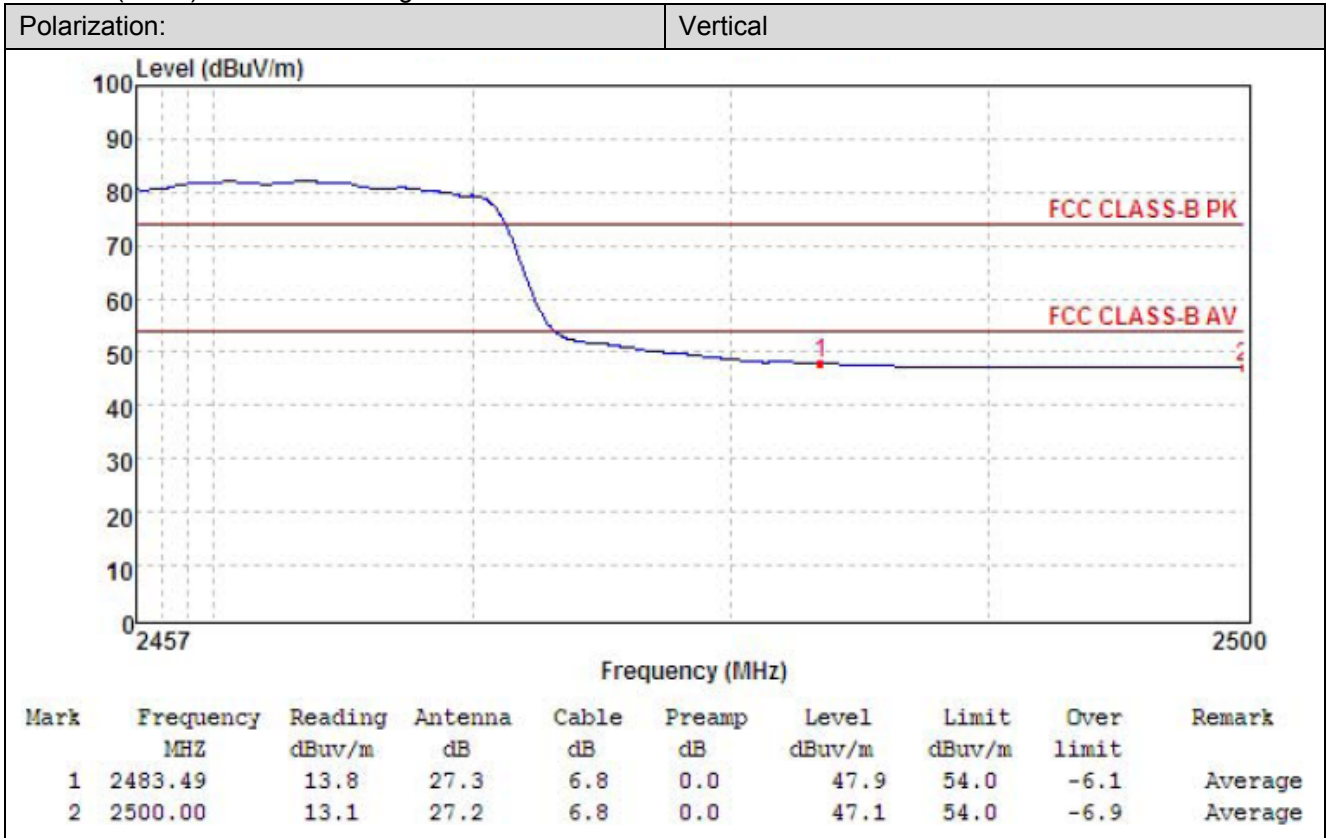


802.11n(HT20)-2462MHz Average:



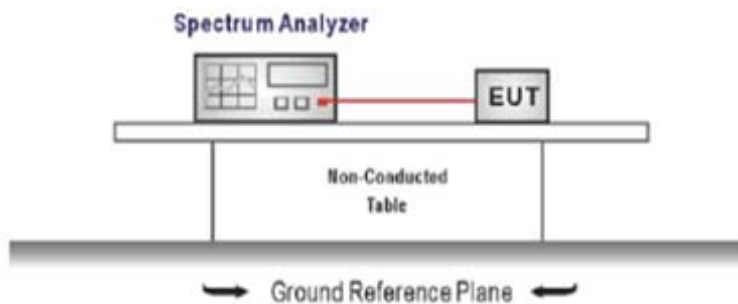
5.7. Band edge and Spurious Emissions (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
 - Center frequency=DTS channel center frequency
 - The span = 1.5 times the DTS bandwidth.
 - RBW = 100 kHz, VBW $\geq 3 \times$ RBW
 - Detector = peak, Sweep time = auto couple, Trace mode = max hold
 - Allow trace to fully stabilize
 - Use the peak marker function to determine the maximum PSD level

Note: the channel found to contain the maximum PSD level can be used to establish the reference level.

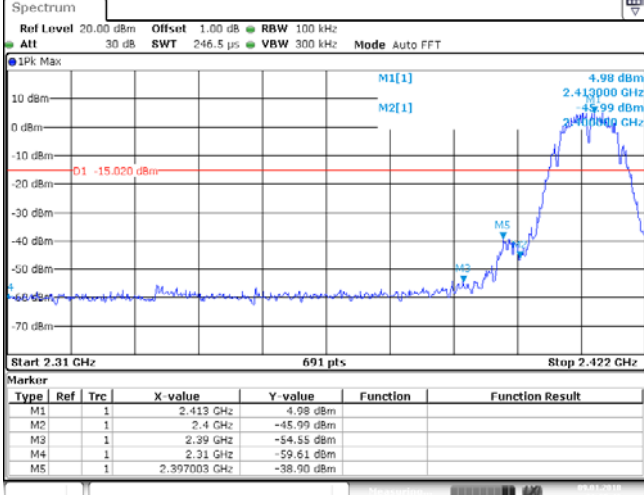

3. Emission level measurement
 - Set the center frequency and span to encompass frequency range to be measured
 - RBW = 100 kHz, VBW $\geq 3 \times$ RBW
 - Detector = peak, Sweep time = auto couple, Trace mode = max hold
 - Allow trace to fully stabilize
 - Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

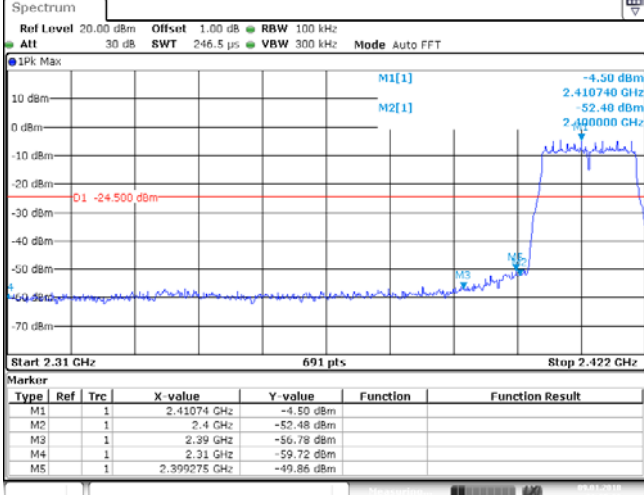
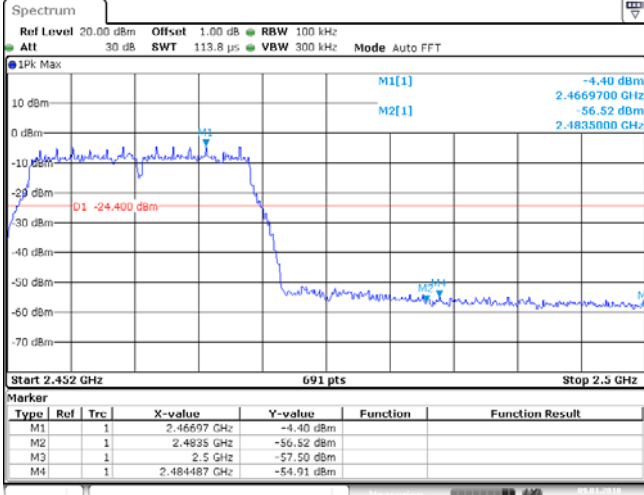
TEST MODE:

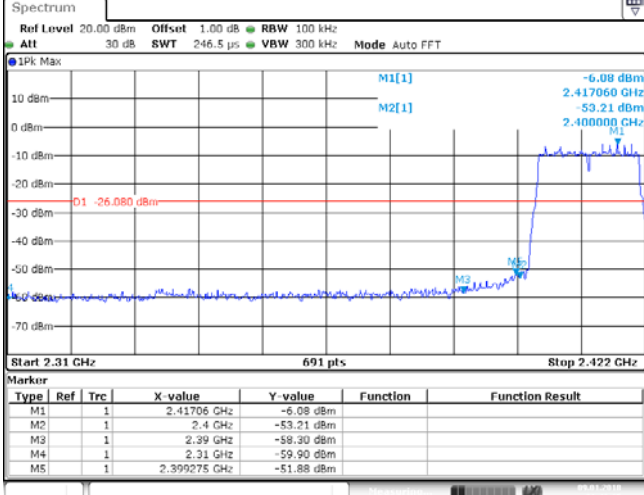
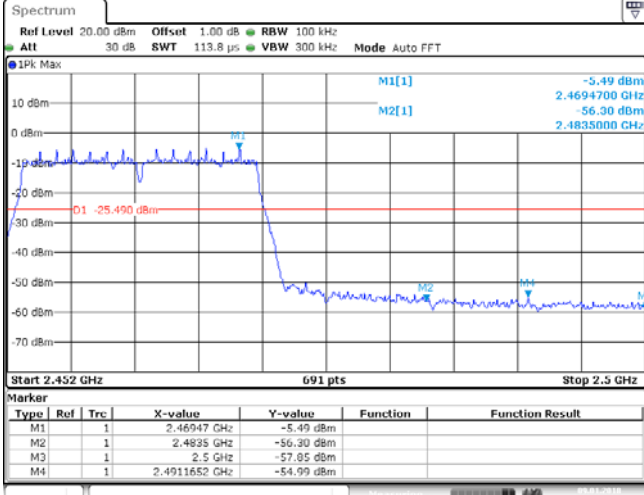
Please refer to the clause 3.3

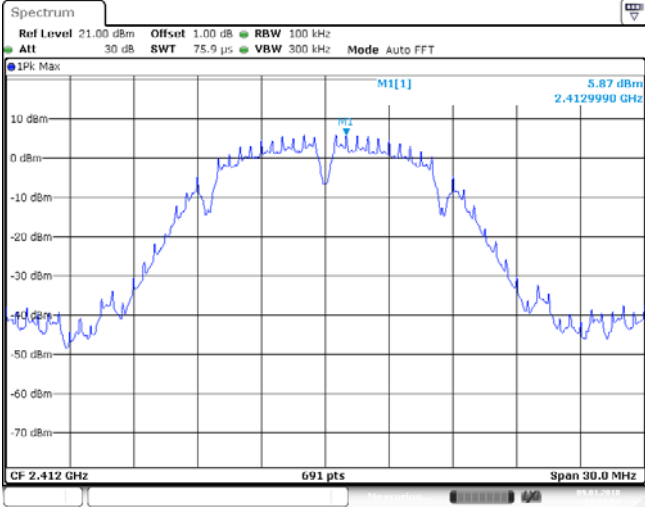
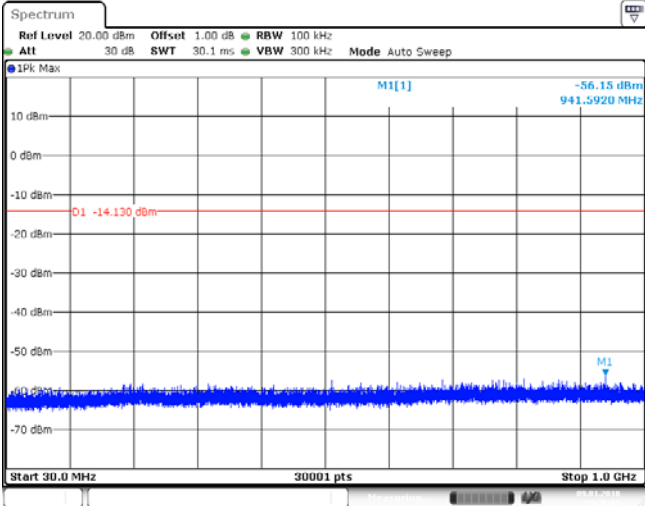
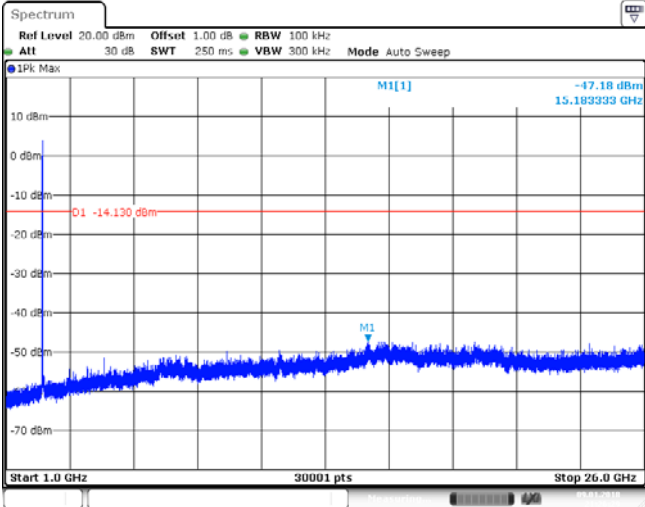
TEST RESULTS

Passed Not Applicable

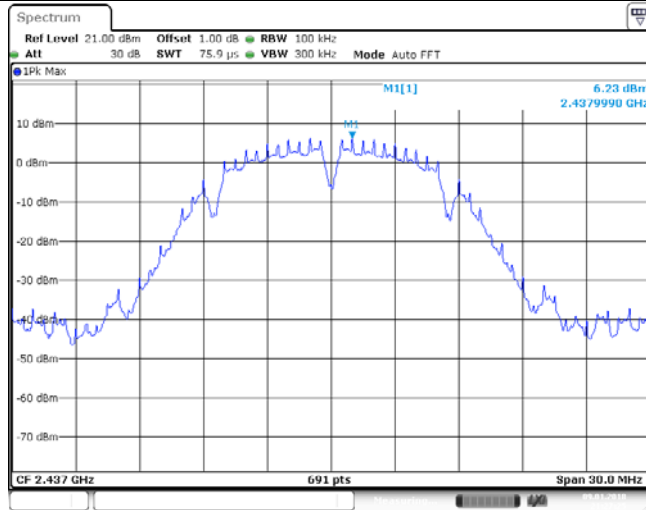
Test Item:	Bandedge	Type:	802.11 b																																										
CH01	 <p>Marker Table for CH01:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.413 GHz</td> <td>4.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-45.99 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-59.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.397003 GHz</td> <td>-38.90 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.413 GHz	4.98 dBm			M2	1		2.4 GHz	-45.99 dBm			M3	1		2.39 GHz	-54.55 dBm			M4	1		2.31 GHz	-59.61 dBm			M5	1		2.397003 GHz	-38.90 dBm		
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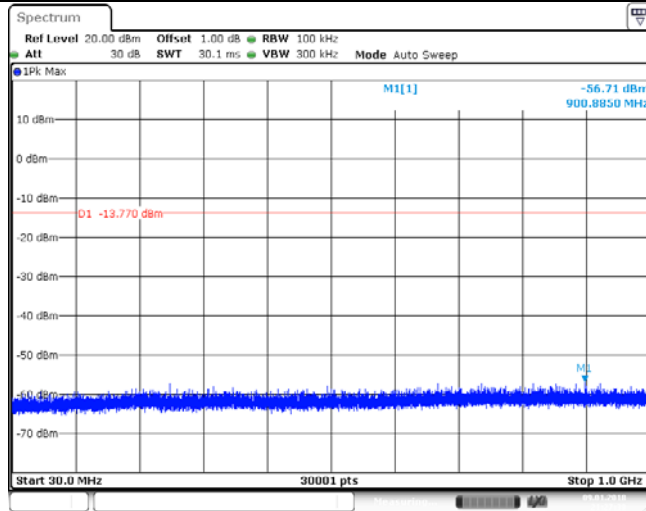
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CH01	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -6.08 dBm 2.417060 GHz M2[1] -53.21 dBm 2.400000 GHz</p> <p>D1 -26.080 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41706 GHz</td> <td>-6.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-59.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-59.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399275 GHz</td> <td>-51.88 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41706 GHz	-6.08 dBm			M2	1		2.4 GHz	-53.21 dBm			M3	1		2.39 GHz	-59.30 dBm			M4	1		2.31 GHz	-59.90 dBm			M5	1		2.399275 GHz	-51.88 dBm		
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CH11	 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT</p> <p>1Pk Max</p> <p>M1[1] -5.49 dBm 2.469470 GHz M2[1] -56.30 dBm 2.4835000 GHz</p> <p>D1 -25.490 dBm</p> <p>Start 2.452 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.46947 GHz</td> <td>-5.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4695 GHz</td> <td>-56.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-57.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4911652 GHz</td> <td>-54.99 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.46947 GHz	-5.49 dBm			M2	1		2.4695 GHz	-56.30 dBm			M3	1		2.5 GHz	-57.85 dBm			M4	1		2.4911652 GHz	-54.99 dBm									
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Test Item:	SE	Type:	802.11 b
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

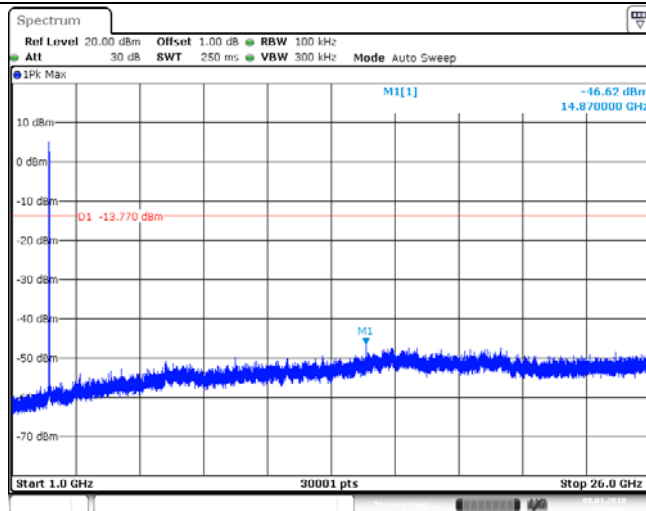
CH06
Reference level



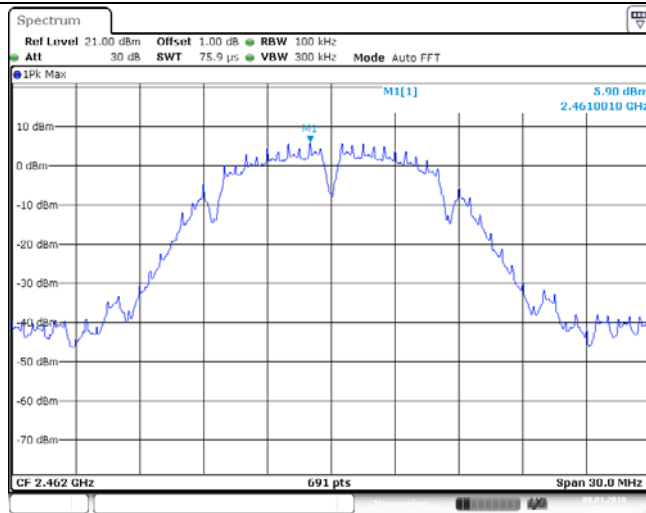
CH06
30MHz~1000MHz



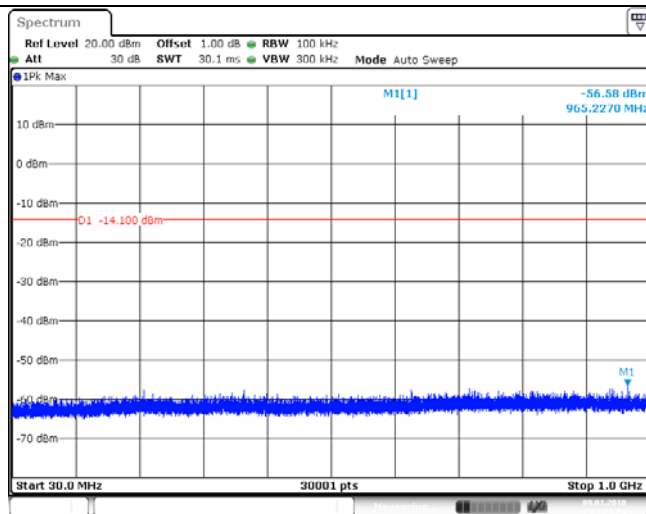
CH06
1GHz~26GHz



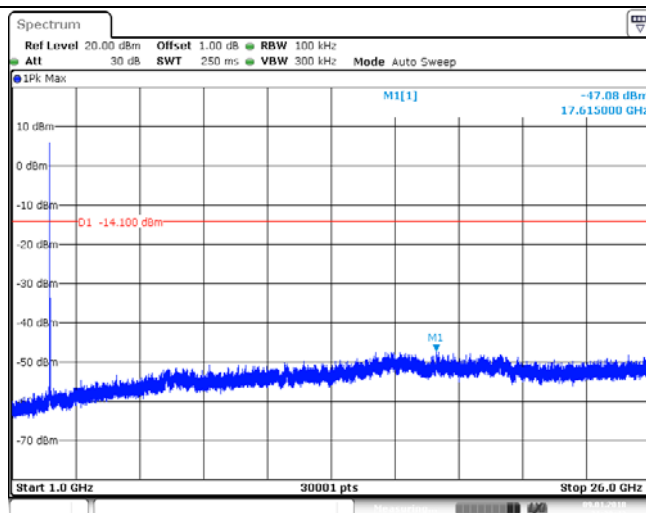
CH11
Reference level

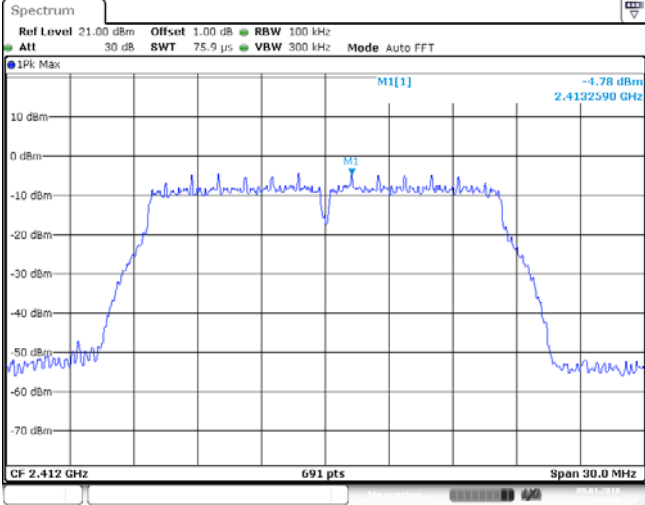
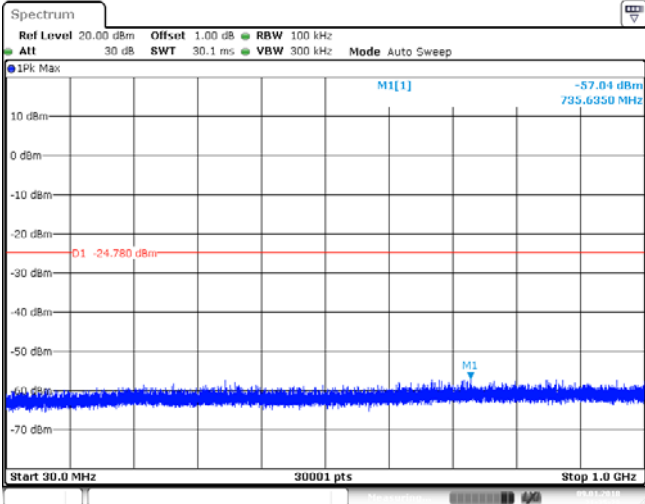
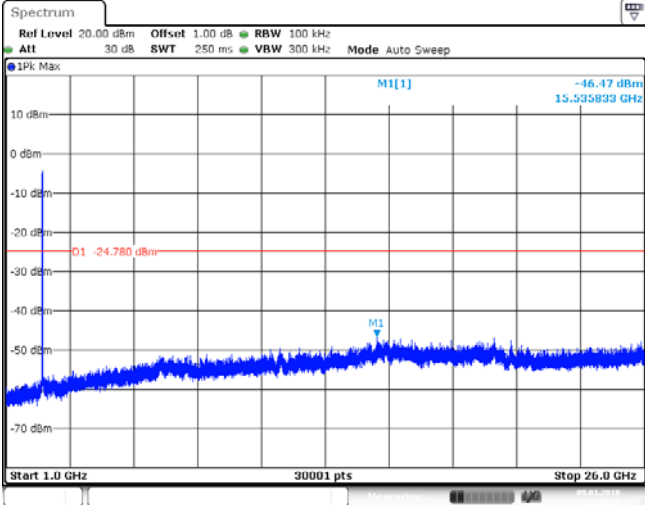


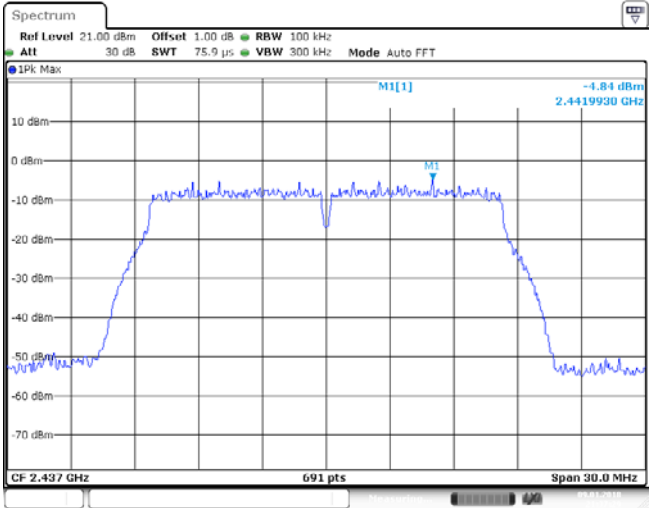
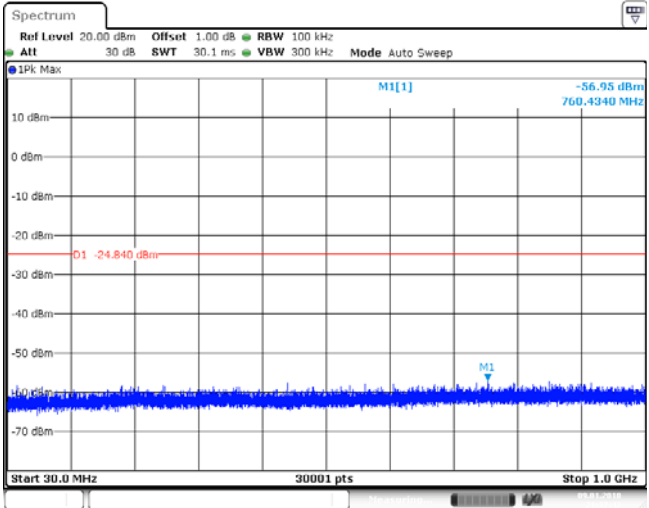
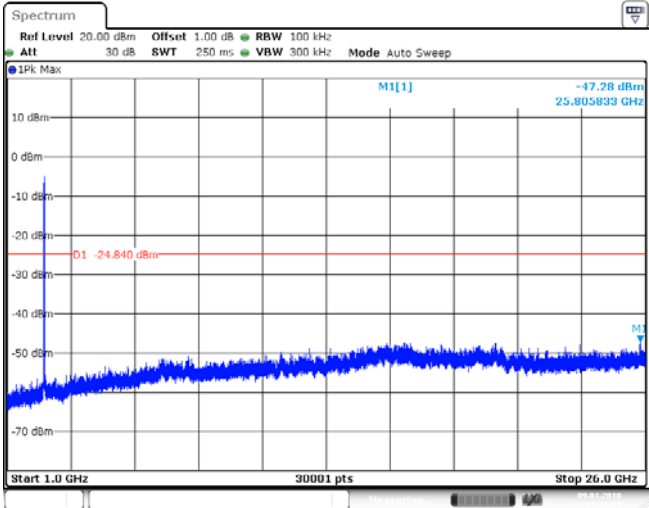
CH11
30MHz~1000MHz

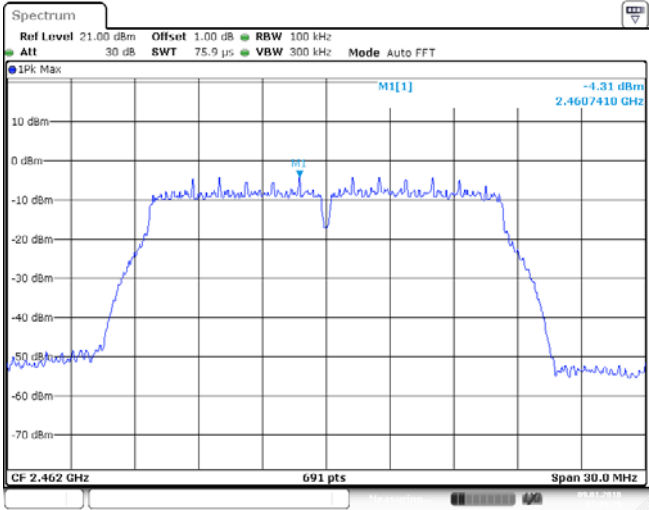
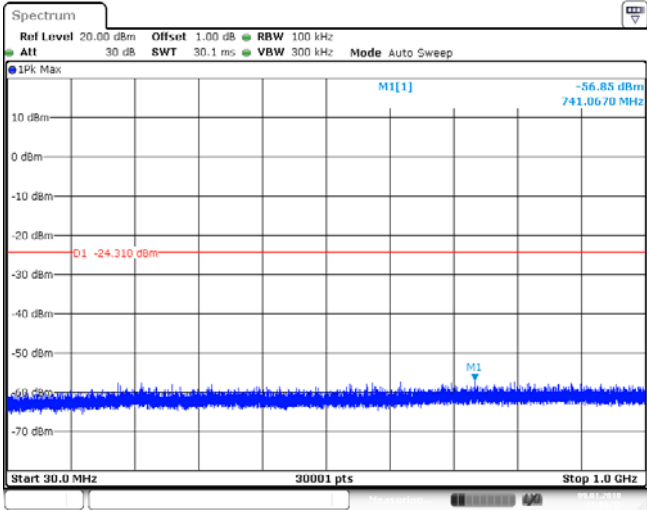
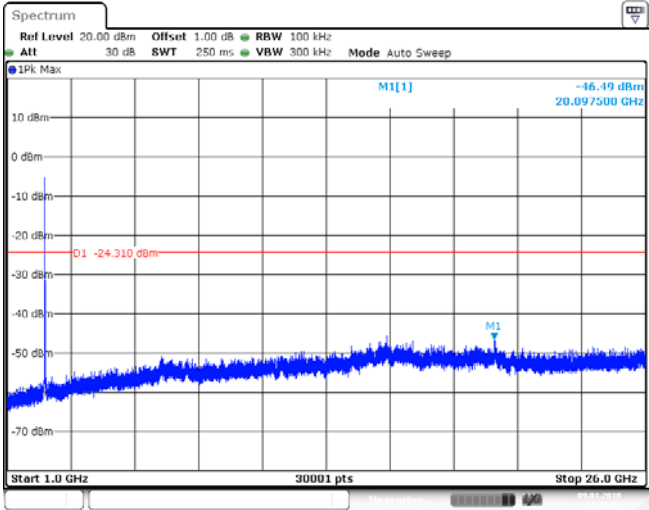


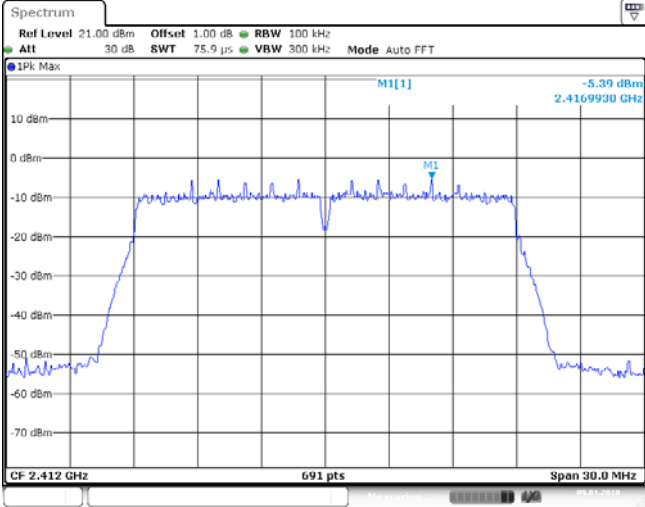
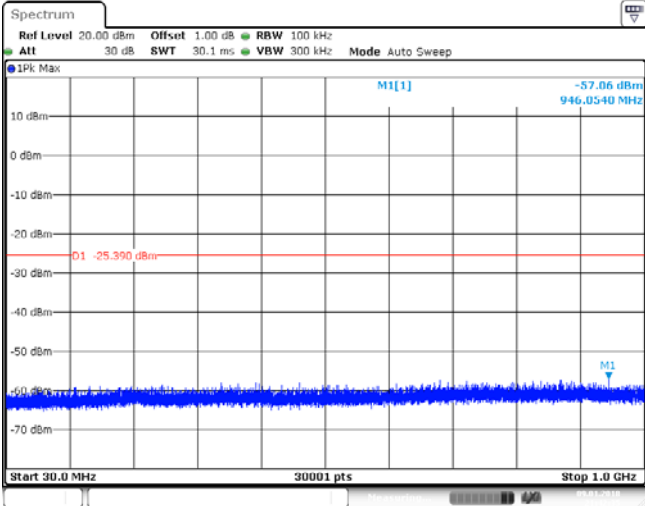
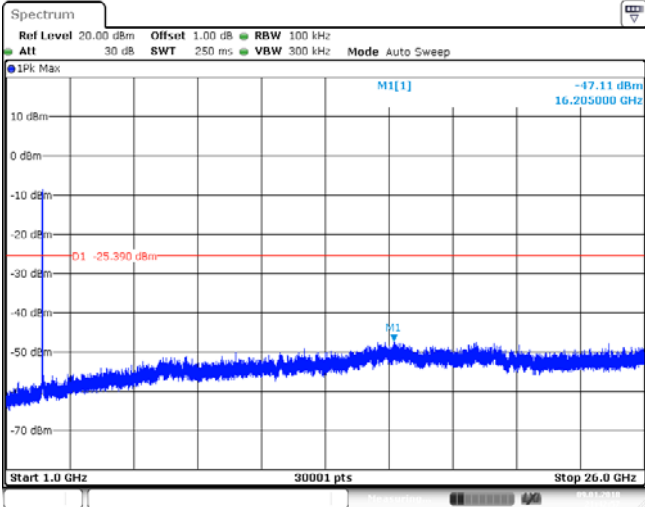
CH11
1GHz~26GHz



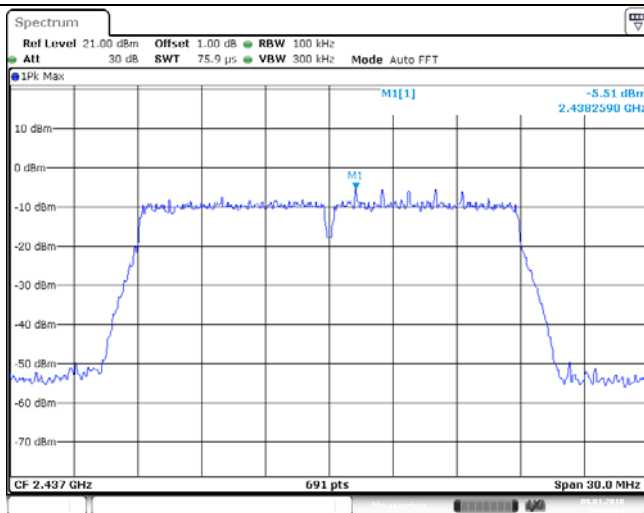
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<p>CH01 30MHz~1000MHz</p>		 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -57.04 dBm 795.6350 MHz O1 -24.780 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz</p>	
<p>CH01 1GHz~26GHz</p>		 <p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep 1Pk Max M1[1] -46.47 dBm 15.535833 GHz O1 -24.780 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz</p>	

<p>CH06 Reference level</p>	
<p>CH06 30MHz~1000MHz</p>	
<p>CH06 1GHz~26GHz</p>	

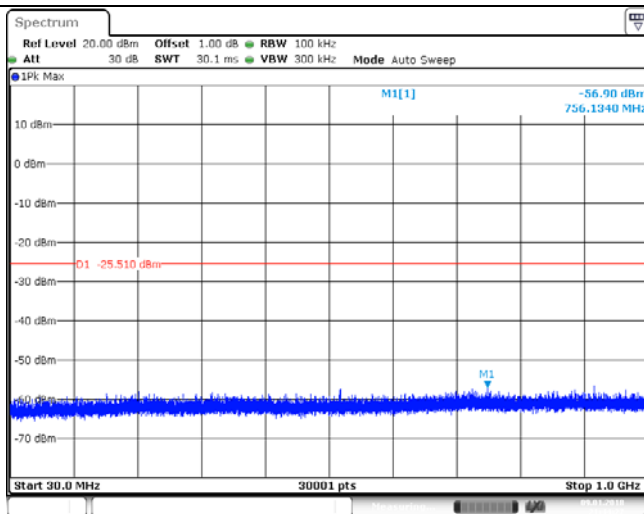
<p>CH11 Reference level</p>	
<p>CH11 30MHz~1000MHz</p>	
<p>CH11 1GHz~26GHz</p>	

Test Item:	SE	Type:	802.11 n(HT20)
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<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

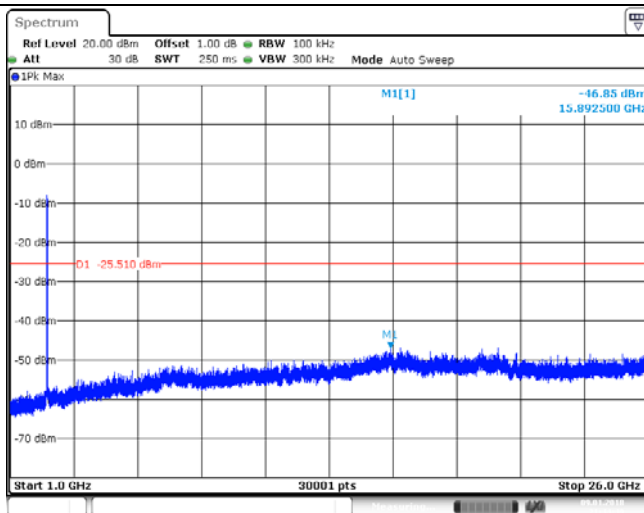
CH06
Reference level



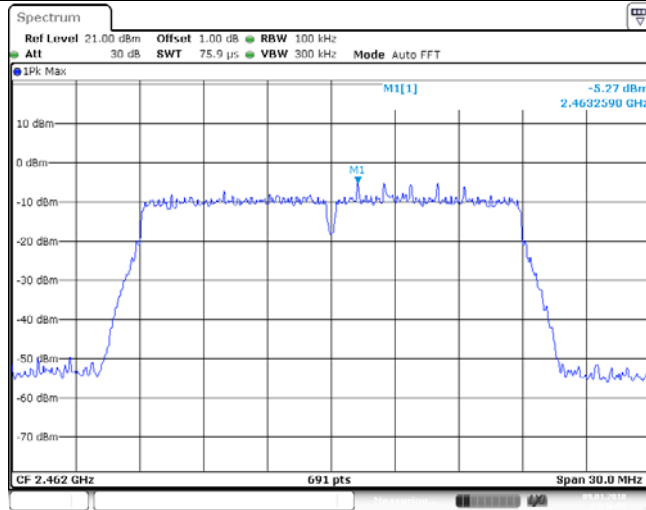
CH06
30MHz~1000MHz



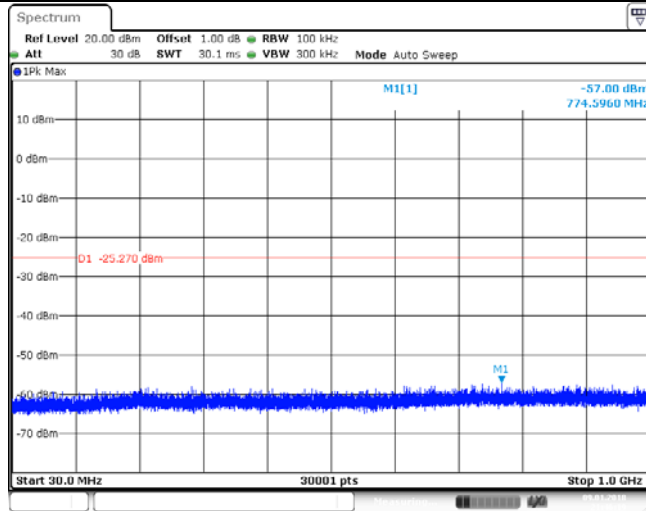
CH06
1GHz~26GHz



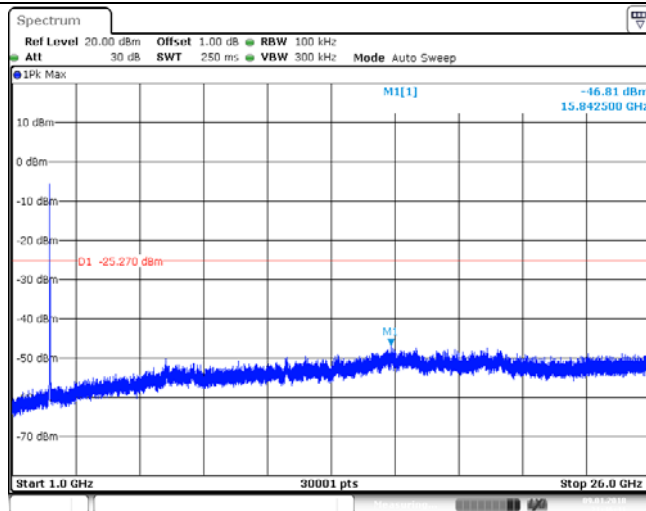
CH11
Reference level



CH11
30MHz~1000MHz



CH11
1GHz~26GHz



5.8. Spurious Emissions (radiated)

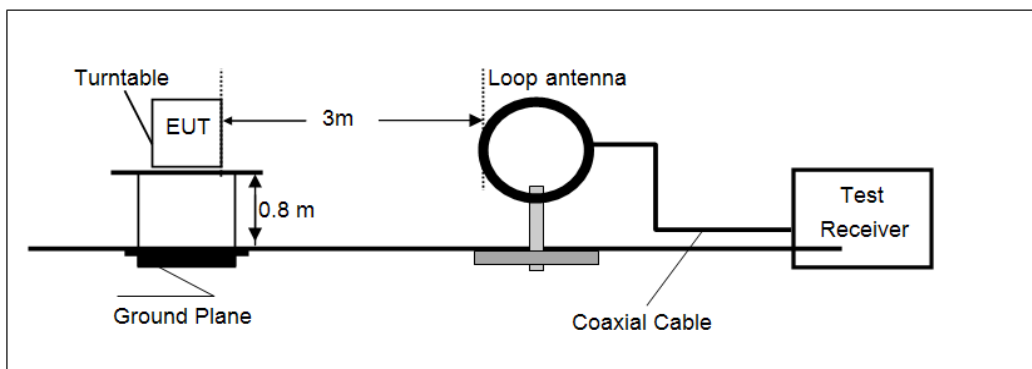
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

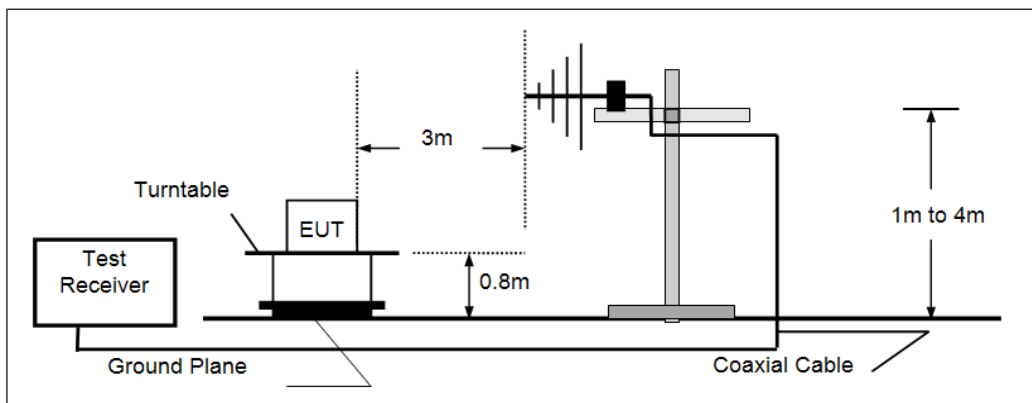
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

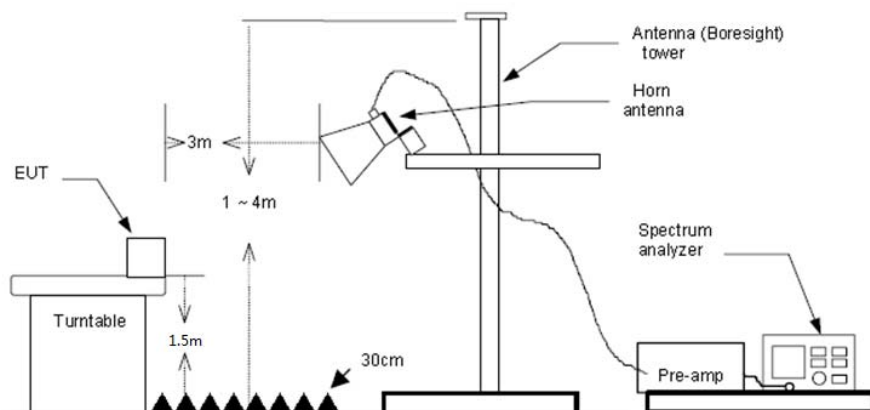
➤ 9kHz ~30MHz



➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
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 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=3MHz RMS detector for Average value.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed **Not Applicable**

Note:

- 1) Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.

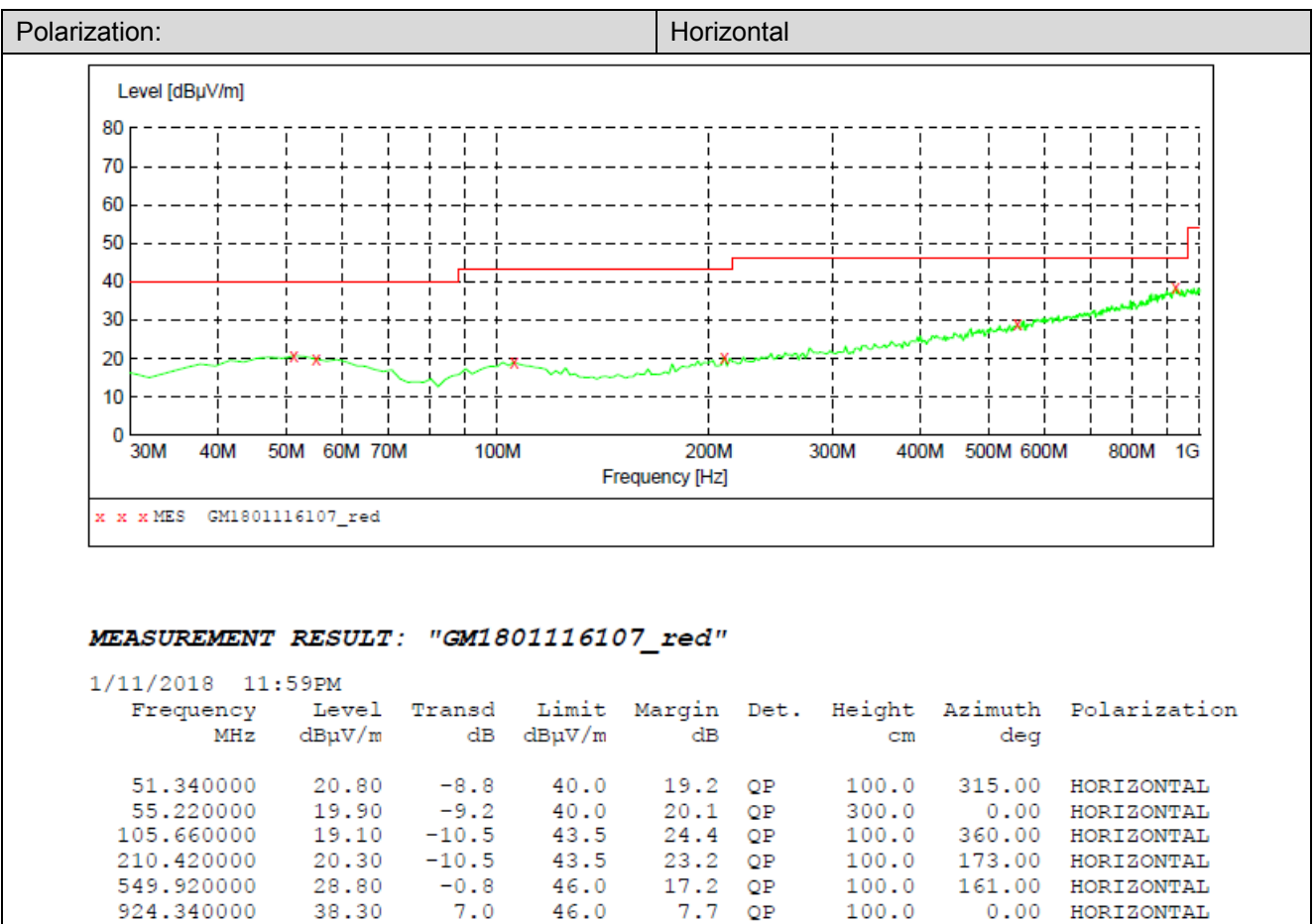
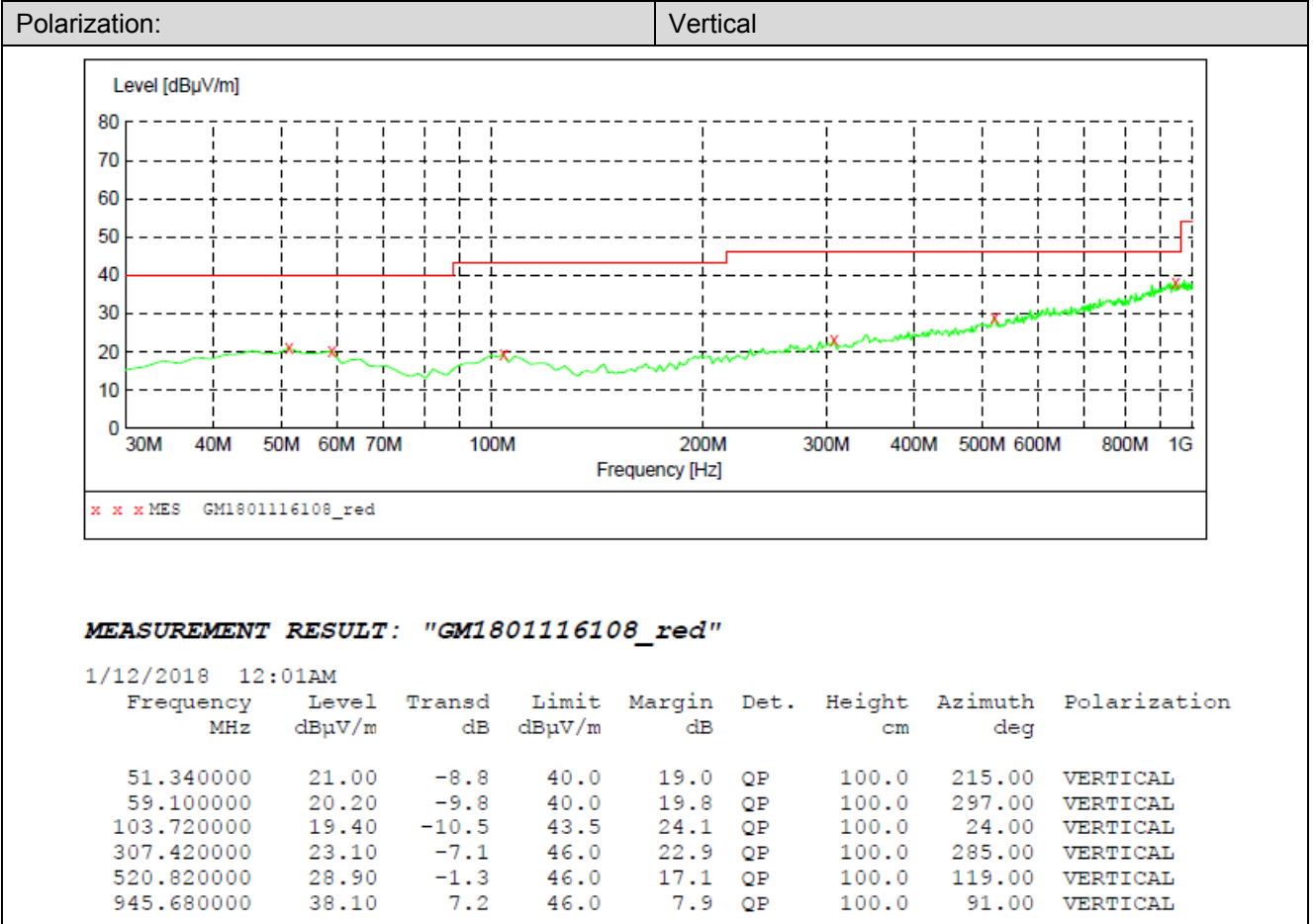
➤ 9kHz ~ 30MHz

The EUT was pre-scanned the frequency band (9kHz~30MHz), found the radiated level lower than the limit, so don't show on the report.

➤ 30MHz ~1000MHz

Have pre-scan all modulation mode, found the 802.11b mode CH01 which it was worst case, so only the worst case's data on the test report.

➤ 30MHz ~ 1GHz



➤ 1 GHz ~ 25 GHz

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1651.15	36.11	25.06	5.67	36.83	30.01	74.00	-43.99	Vertical	Peak
4605.81	33.39	30.92	9.46	37.22	36.55	74.00	-37.45	Vertical	Peak
6577.75	32.35	34.16	11.32	35.35	42.48	74.00	-31.52	Vertical	Peak
7245.81	35.11	36.25	11.91	35.02	48.25	74.00	-25.75	Vertical	Peak
1219.64	36.46	26.28	4.69	36.56	30.87	74.00	-43.13	Horizontal	Peak
3653.46	34.84	29.30	8.33	38.26	34.21	74.00	-39.79	Horizontal	Peak
4996.69	33.19	31.50	9.67	36.41	37.95	74.00	-36.05	Horizontal	Peak
6662.01	32.21	34.20	11.43	35.25	42.59	74.00	-31.41	Horizontal	Peak

802.11b					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1814.22	34.93	25.39	5.98	37.15	29.15	74.00	-44.85	Vertical	Peak
3719.15	35.43	29.36	8.41	38.25	34.95	74.00	-39.05	Vertical	Peak
5086.52	33.77	31.85	9.74	36.31	39.05	74.00	-34.95	Vertical	Peak
7394.88	32.70	36.30	12.06	34.83	46.23	74.00	-27.77	Vertical	Peak
1502.73	34.49	25.77	5.29	36.59	28.96	74.00	-45.04	Horizontal	Peak
3489.84	35.86	28.92	8.10	38.42	34.46	74.00	-39.54	Horizontal	Peak
4920.96	34.01	31.42	9.62	36.62	38.43	74.00	-35.57	Horizontal	Peak
7319.96	34.22	36.30	11.99	34.92	47.59	74.00	-26.41	Horizontal	Peak

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1764.12	35.10	25.33	5.89	37.06	29.26	74.00	-44.74	Vertical	Peak
3516.59	35.92	29.05	8.14	38.39	34.72	74.00	-39.28	Vertical	Peak
4983.99	34.92	31.48	9.66	36.44	39.62	74.00	-34.38	Vertical	Peak
7394.88	35.01	36.30	12.06	34.83	48.54	74.00	-25.46	Vertical	Peak
1219.64	36.51	26.28	4.69	36.56	30.92	74.00	-43.08	Horizontal	Peak
3662.78	34.21	29.30	8.34	38.26	33.59	74.00	-40.41	Horizontal	Peak
5284.50	34.13	31.33	9.96	36.45	38.97	74.00	-35.03	Horizontal	Peak
7547.01	32.92	36.15	12.55	34.94	46.68	74.00	-27.32	Horizontal	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier 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(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1346.93	34.65	26.06	4.91	36.49	29.13	74.00	-44.87	Vertical	Peak
4310.85	34.40	30.23	9.05	37.60	36.08	74.00	-37.92	Vertical	Peak
5940.97	32.80	32.38	10.65	35.41	40.42	74.00	-33.58	Vertical	Peak
7245.81	35.69	36.25	11.91	35.02	48.83	74.00	-25.17	Vertical	Peak
1228.98	36.59	26.27	4.71	36.55	31.02	74.00	-42.98	Horizontal	Peak
4096.88	35.19	29.89	8.86	37.89	36.05	74.00	-37.95	Horizontal	Peak
5806.41	33.27	32.11	10.59	35.32	40.65	74.00	-33.35	Horizontal	Peak
7245.81	35.38	36.25	11.91	35.02	48.52	74.00	-25.48	Horizontal	Peak

802.11g					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1777.65	45.61	25.36	5.92	37.09	39.80	74.00	-34.20	Vertical	Peak
3607.26	36.52	29.30	8.28	38.27	35.83	74.00	-38.17	Vertical	Peak
5112.49	34.06	31.85	9.76	36.29	39.38	74.00	-34.62	Vertical	Peak
7319.96	36.54	36.30	11.99	34.92	49.91	74.00	-24.09	Vertical	Peak
1182.94	36.21	26.17	4.62	36.58	30.42	74.00	-43.58	Horizontal	Peak
4055.37	34.58	29.81	8.82	37.98	35.23	74.00	-38.77	Horizontal	Peak
4871.10	33.52	31.46	9.59	36.76	37.81	74.00	-36.19	Horizontal	Peak
7319.96	34.22	36.30	11.99	34.92	47.59	74.00	-26.41	Horizontal	Peak

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1296.47	35.03	26.20	4.82	36.52	29.53	74.00	-44.47	Vertical	Peak
3844.28	36.44	29.64	8.56	38.20	36.44	74.00	-37.56	Vertical	Peak
5177.97	33.20	31.59	9.81	36.22	38.38	74.00	-35.62	Vertical	Peak
7045.74	33.27	35.44	11.85	34.86	45.70	74.00	-28.30	Vertical	Peak
1617.86	36.68	24.95	5.60	36.76	30.47	74.00	-43.53	Horizontal	Peak
3072.77	34.96	28.75	7.57	38.22	33.06	74.00	-40.94	Horizontal	Peak
4920.96	35.88	31.42	9.62	36.62	40.30	74.00	-33.70	Horizontal	Peak
7009.96	31.08	35.33	11.85	34.80	43.46	74.00	-30.54	Horizontal	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The peak level is lower than average limit (54 dBuV/m), this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies (test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11n(HT20)					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1340.09	35.42	26.08	4.90	36.49	29.91	74.00	-44.09	Vertical	Peak
4096.88	34.88	29.89	8.86	37.89	35.74	74.00	-38.26	Vertical	Peak
5895.77	32.86	32.29	10.63	35.38	40.40	74.00	-33.60	Vertical	Peak
7245.81	36.40	36.25	11.91	35.02	49.54	74.00	-24.46	Vertical	Peak
1247.90	35.70	26.25	4.74	36.54	30.15	74.00	-43.85	Horizontal	Peak
3873.75	35.49	29.67	8.60	38.19	35.57	74.00	-38.43	Horizontal	Peak
5747.59	32.89	31.84	10.51	35.46	39.78	74.00	-34.22	Horizontal	Peak
7245.81	34.91	36.25	11.91	35.02	48.05	74.00	-25.95	Horizontal	Peak

802.11n(HT20)					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1609.65	35.43	24.93	5.59	36.74	29.21	74.00	-44.79	Vertical	Peak
3662.78	34.43	29.30	8.34	38.26	33.81	74.00	-40.19	Vertical	Peak
5009.43	32.67	31.54	9.68	36.39	37.50	74.00	-36.50	Vertical	Peak
6974.36	31.12	35.15	11.82	34.82	43.27	74.00	-30.73	Vertical	Peak
1680.83	35.64	25.14	5.73	36.89	29.62	74.00	-44.38	Horizontal	Peak
3653.46	36.16	29.30	8.33	38.26	35.53	74.00	-38.47	Horizontal	Peak
5125.52	34.26	31.80	9.77	36.27	39.56	74.00	-34.44	Horizontal	Peak
7301.36	33.80	36.30	11.97	34.95	47.12	74.00	-26.88	Horizontal	Peak

802.11n(HT20)					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1676.56	35.62	25.13	5.72	36.88	29.59	74.00	-44.41	Vertical	Peak
3057.17	35.34	28.72	7.55	38.22	33.39	74.00	-40.61	Vertical	Peak
4920.96	36.08	31.42	9.62	36.62	40.50	74.00	-33.50	Vertical	Peak
7413.73	33.61	36.27	12.11	34.83	47.16	74.00	-26.84	Vertical	Peak
1260.67	35.33	26.24	4.76	36.54	29.79	74.00	-44.21	Horizontal	Peak
3653.46	35.09	29.30	8.33	38.26	34.46	74.00	-39.54	Horizontal	Peak
4883.52	33.45	31.43	9.59	36.73	37.74	74.00	-36.26	Horizontal	Peak
7376.08	32.88	36.30	12.04	34.85	46.37	74.00	-27.63	Horizontal	Peak

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

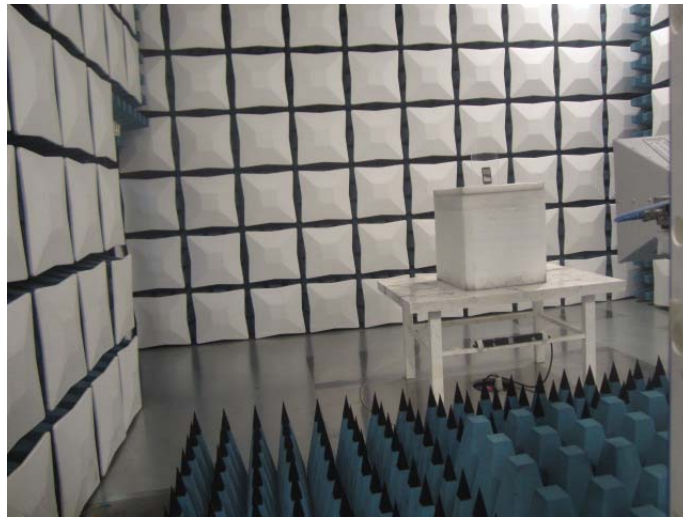
6. TEST SETUP PHOTOS

Conducted Emissions (AC Mains)



Radiated Emissions





7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: TRE1801002601.

-----End of Report-----