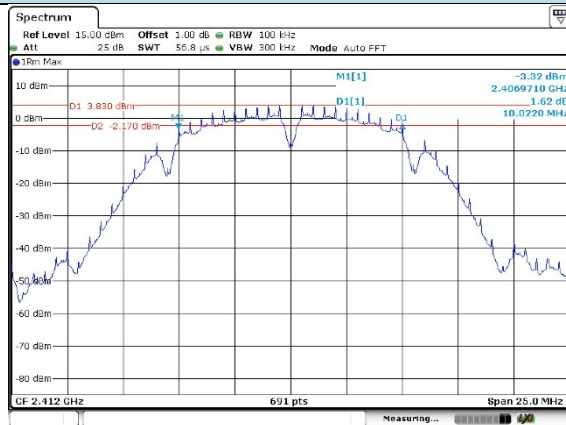
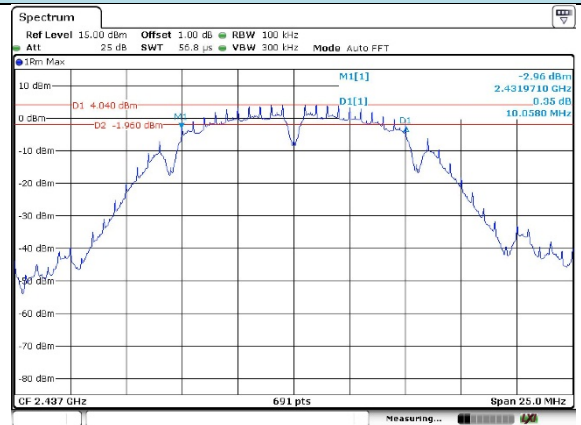


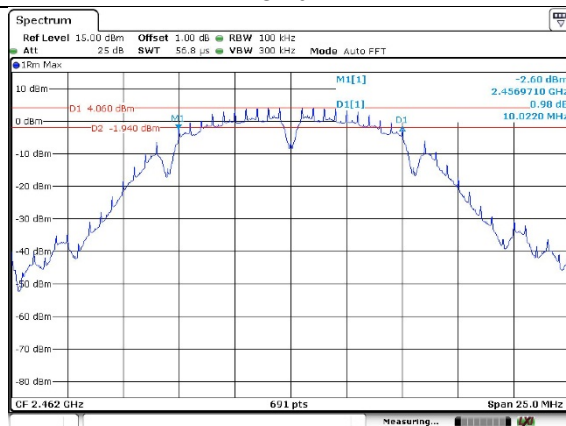
802.11b



CH01



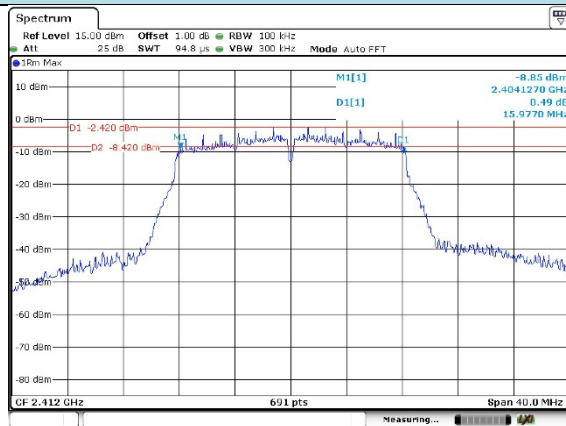
CH06



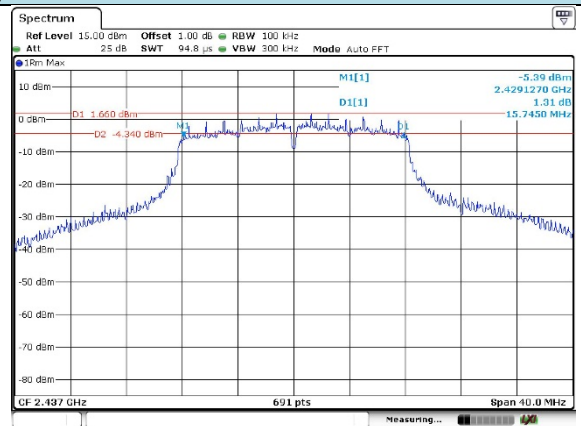
CH11

No Plot

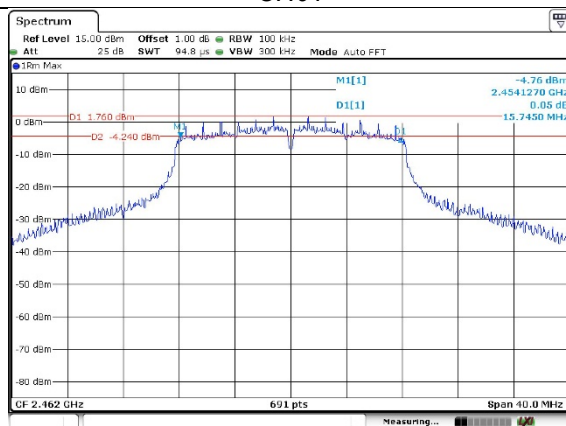
802.11g



CH01



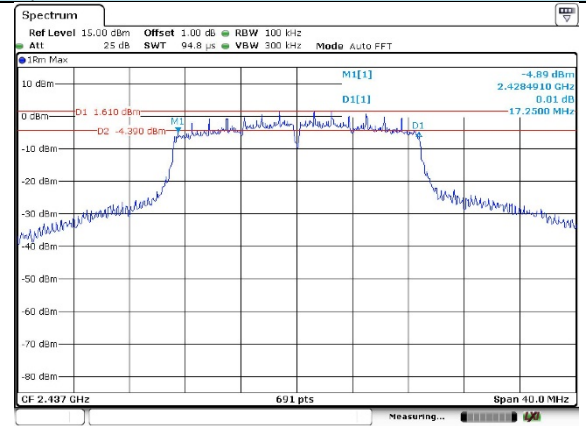
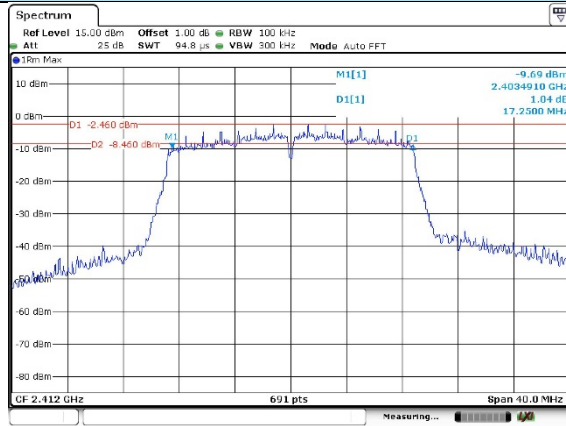
CH06



CH11

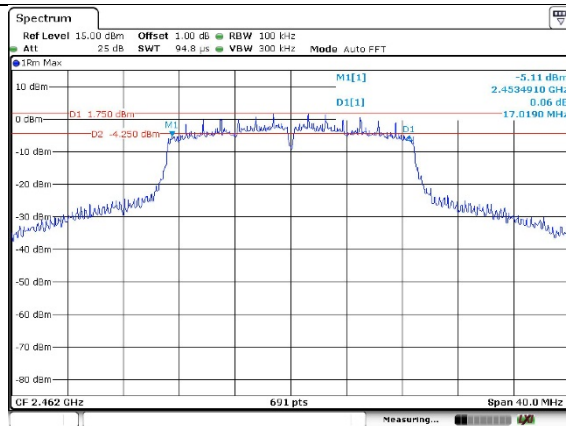
No Plot

802.11n(H20)



CH01

CH06

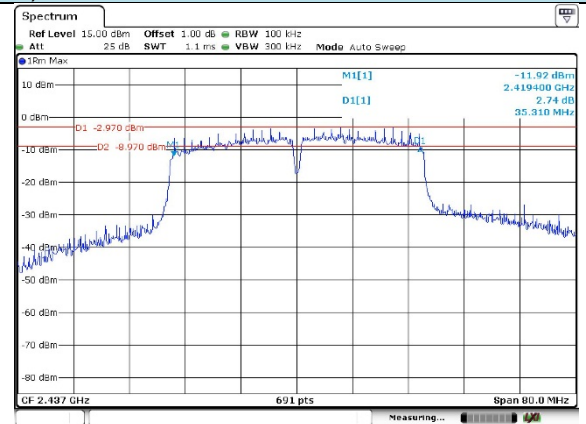
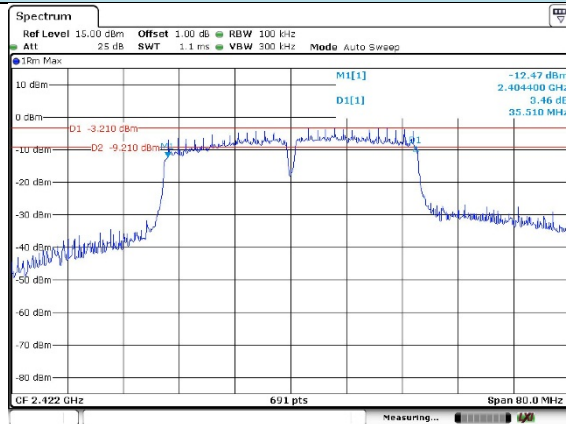


No Plot

CH11

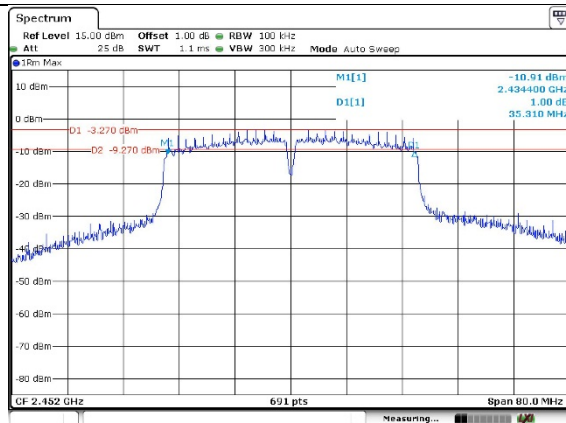
-

802.11n(H40)



CH03

CH06



No Plot

CH09

-

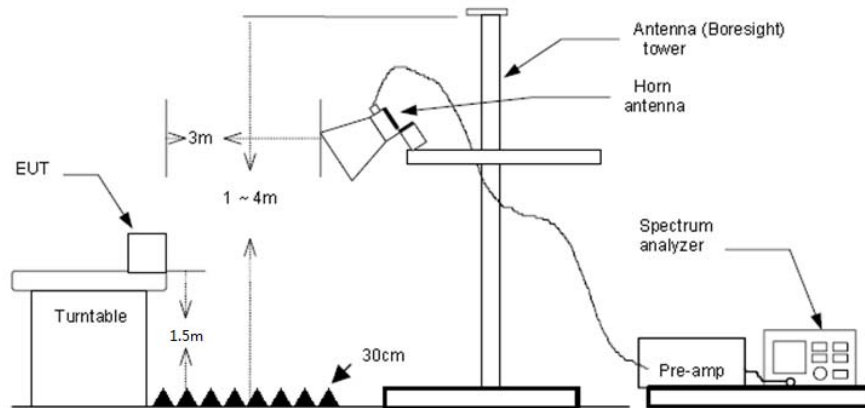
5.6. Restricted band

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 or digitally modulated intentional radiator is operating, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT was 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 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 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) $Final\ level = Read\ level + Antenna\ Factor + Cable\ Loss - Preamp\ Factor$

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	22.76	28.05	6.62	0.00	57.43	74.00	2310.00	Vertical	Peak
2390.01	24.09	27.65	6.75	0.00	58.49	74.00	2390.01	Vertical	
2310.00	17.19	28.05	6.62	0.00	51.86	74.00	2310.00	Horizontal	
2390.01	16.86	27.65	6.75	0.00	51.26	74.00	2390.01	Horizontal	
2310.00	11.35	28.05	6.62	0.00	46.02	54.00	-7.98	Vertical	Average
2390.01	11.10	27.65	6.75	0.00	45.50	54.00	-8.50	Vertical	
2310.00	11.34	28.05	6.62	0.00	46.01	54.00	-7.99	Horizontal	
2390.01	10.98	27.65	6.75	0.00	45.38	54.00	-8.62	Horizontal	

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.49	22.62	27.26	6.83	0.00	56.71	74.00	-17.29	Vertical	Peak
2500.00	22.68	27.20	6.84	0.00	56.72	74.00	-17.28	Vertical	
2483.49	17.46	27.26	6.83	0.00	51.55	74.00	-22.45	Horizontal	
2500.00	16.64	27.20	6.84	0.00	50.68	74.00	-23.32	Horizontal	
2483.49	11.31	27.26	6.83	0.00	45.40	54.00	-8.60	Vertical	Average
2500.00	12.16	27.20	6.84	0.00	46.20	54.00	-7.80	Vertical	
2483.49	10.98	27.26	6.83	0.00	45.07	54.00	-8.93	Horizontal	
2500.00	11.10	27.20	6.84	0.00	45.14	54.00	-8.86	Horizontal	

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	16.87	28.05	6.62	0.00	51.54	74.00	-22.46	Vertical	Peak
2390.01	18.74	27.65	6.75	0.00	53.14	74.00	-20.86	Vertical	
2310.00	16.92	28.05	6.62	0.00	51.59	74.00	-22.41	Horizontal	
2390.01	19.13	27.65	6.75	0.00	53.53	74.00	-20.47	Horizontal	
2310.00	11.35	28.05	6.62	0.00	46.02	54.00	-7.98	Vertical	Average
2390.01	15.89	27.65	6.75	0.00	50.29	54.00	-3.71	Vertical	
2310.00	11.35	28.05	6.62	0.00	46.02	54.00	-7.98	Horizontal	
2390.01	14.80	27.65	6.75	0.00	49.20	54.00	-4.80	Horizontal	

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.49	20.45	27.26	6.83	0.00	54.54	74.00	-19.46	Vertical	Peak
2500.00	17.85	27.20	6.84	0.00	51.89	74.00	-22.11	Vertical	
2483.49	22.32	27.26	6.83	0.00	56.41	74.00	-17.59	Horizontal	
2500.00	16.55	27.20	6.84	0.00	50.59	74.00	-23.41	Horizontal	
2483.49	16.84	27.26	6.83	0.00	50.93	54.00	-3.07	Vertical	Average
2500.00	11.74	27.20	6.84	0.00	45.78	54.00	-8.22	Vertical	
2483.49	16.87	27.26	6.83	0.00	50.96	54.00	-3.04	Horizontal	
2500.00	11.94	27.20	6.84	0.00	45.98	54.00	-8.02	Horizontal	

802.11n(H20)					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	17.12	28.05	6.62	0.00	51.79	74.00	-22.21	Vertical	Peak
2390.01	18.71	27.65	6.75	0.00	53.11	74.00	-20.89	Vertical	
2310.00	17.63	28.05	6.62	0.00	52.30	74.00	-21.70	Horizontal	
2390.01	21.89	27.65	6.75	0.00	56.29	74.00	-17.71	Horizontal	
2310.00	11.38	28.05	6.62	0.00	46.05	54.00	-7.95	Vertical	Average
2390.01	15.74	27.65	6.75	0.00	50.14	54.00	-3.86	Vertical	
2310.00	11.36	28.05	6.62	0.00	46.03	54.00	-7.97	Horizontal	
2390.01	11.72	27.65	6.75	0.00	46.12	54.00	-7.88	Horizontal	

802.11n(H20)					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.49	20.80	27.26	6.83	0.00	54.89	74.00	-19.11	Vertical	Peak
2500.00	18.51	27.20	6.84	0.00	52.55	74.00	-21.45	Vertical	
2483.49	25.74	27.26	6.83	0.00	59.83	74.00	-14.17	Horizontal	
2500.00	18.49	27.20	6.84	0.00	52.53	74.00	-21.47	Horizontal	
2483.49	16.81	27.26	6.83	0.00	50.90	54.00	-3.10	Vertical	Average
2500.00	11.23	27.20	6.84	0.00	45.27	54.00	-8.73	Vertical	
2483.49	16.50	27.26	6.83	0.00	50.59	54.00	-3.41	Horizontal	
2500.00	12.03	27.20	6.84	0.00	46.07	54.00	-7.93	Horizontal	

802.11n(H40)					CH03				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	18.02	28.05	6.62	0.00	52.69	74.00	-21.31	Vertical	Peak
2389.99	20.53	27.65	6.75	0.00	54.93	74.00	-19.07	Vertical	
2310.00	18.06	28.05	6.62	0.00	52.73	74.00	-21.27	Horizontal	
2389.99	20.31	27.65	6.75	0.00	54.71	74.00	-19.29	Horizontal	
2310.00	11.38	28.05	6.62	0.00	46.05	54.00	-7.95	Vertical	Average
2389.99	16.26	27.65	6.75	0.00	50.66	54.00	-3.34	Vertical	
2310.00	11.39	28.05	6.62	0.00	46.06	54.00	-7.94	Horizontal	
2389.99	18.72	27.65	6.75	0.00	53.12	54.00	-0.88	Horizontal	

802.11n(H40)					CH09				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	19.71	27.26	6.83	0.00	53.80	74.00	-20.20	Vertical	Peak
2500.00	17.71	27.20	6.84	0.00	51.75	74.00	-22.25	Vertical	
2483.50	25.27	27.26	6.83	0.00	59.36	74.00	-14.64	Horizontal	
2500.00	19.85	27.20	6.84	0.00	53.89	74.00	-20.11	Horizontal	
2483.50	16.76	27.26	6.83	0.00	50.85	54.00	-3.15	Vertical	Average
2500.00	14.83	27.20	6.84	0.00	48.87	54.00	-5.13	Vertical	
2483.50	16.79	27.26	6.83	0.00	50.88	54.00	-3.12	Horizontal	
2500.00	15.26	27.20	6.84	0.00	49.30	54.00	-4.70	Horizontal	

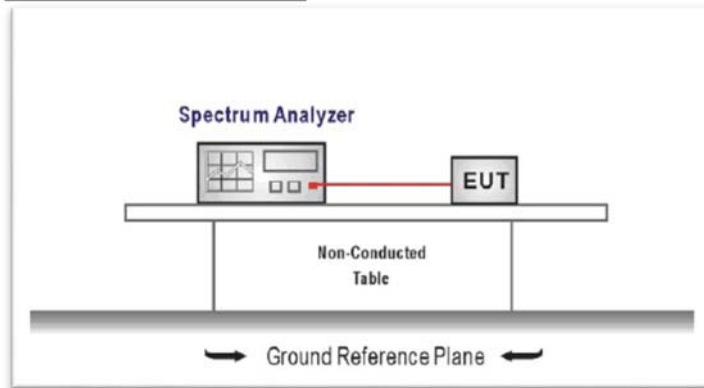
5.7. Band edge and Spurious Emission (conducted)

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 ≥ 3 x 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 ≥ 3 x 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 emissions 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 emissions relative to the limit.

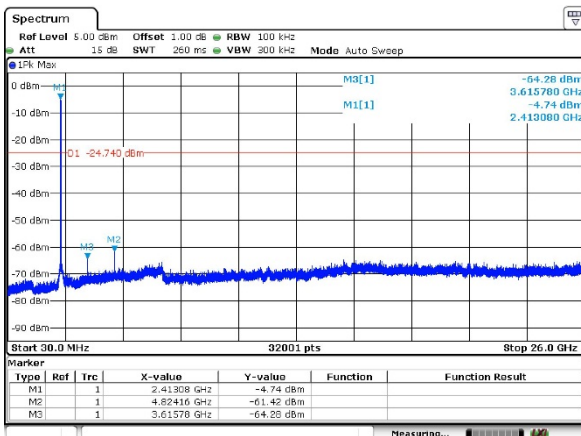
TEST MODE:

Please refer to the clause 3.3

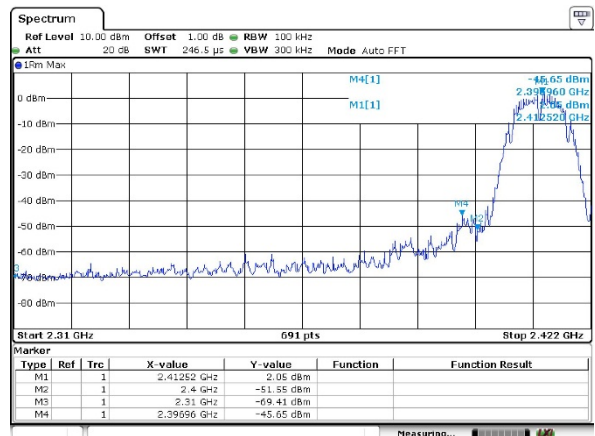
TEST RESULTS

☒ Passed ☐ Not Applicable

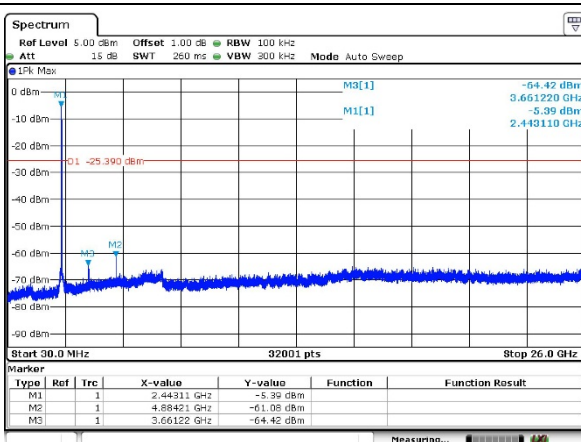
802.11b



CH01-SE

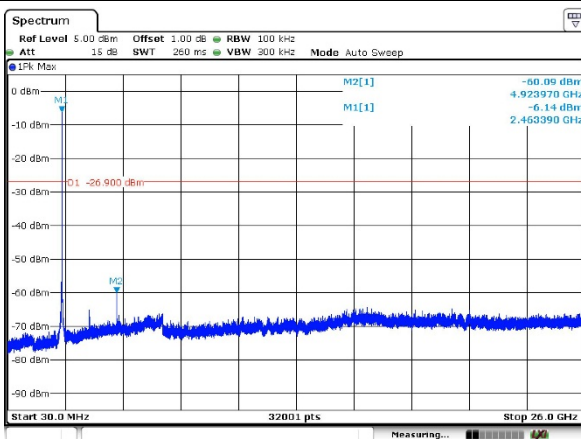


CH01-Bandedge

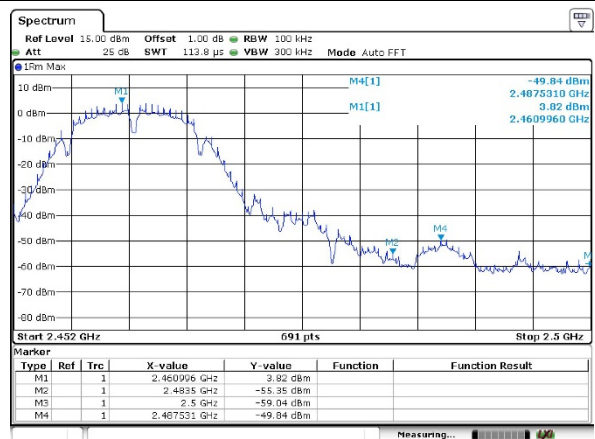


CH06-SE

No Plot

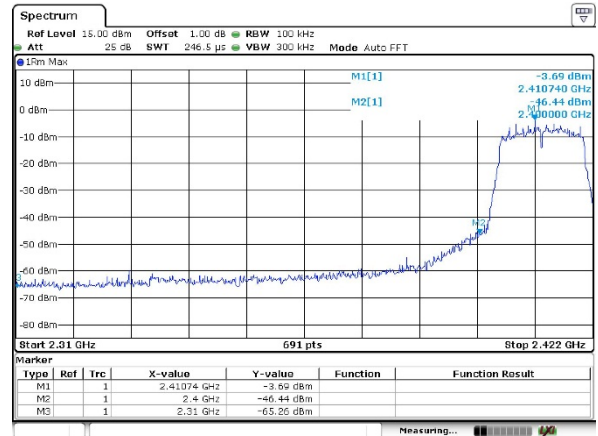
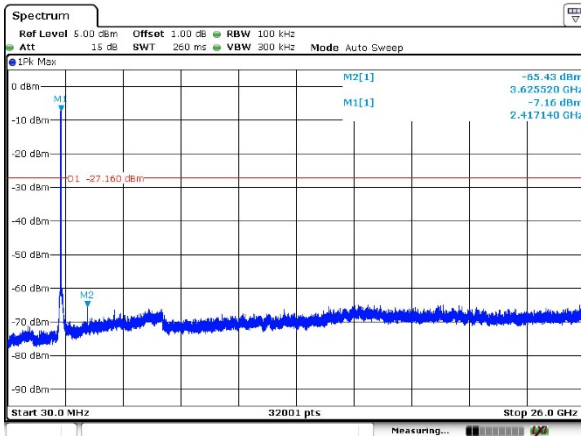


CH11-SE

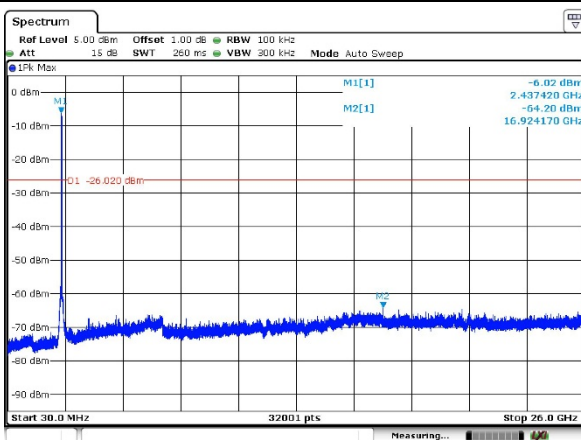


CH11-Bandedge

802.11g



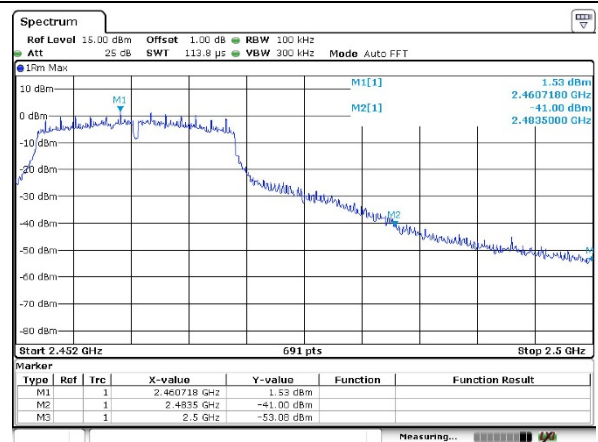
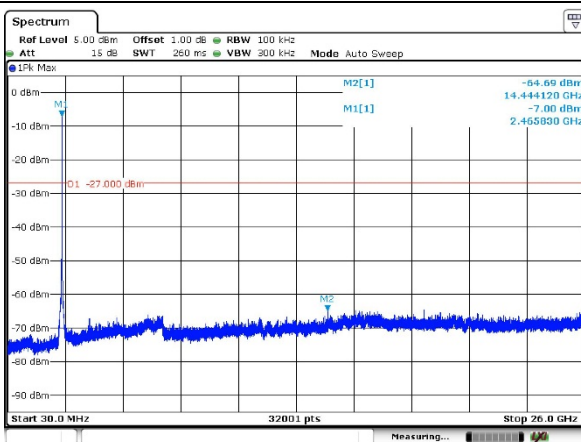
CH01-SE



CH01-Bandedge

No Plot

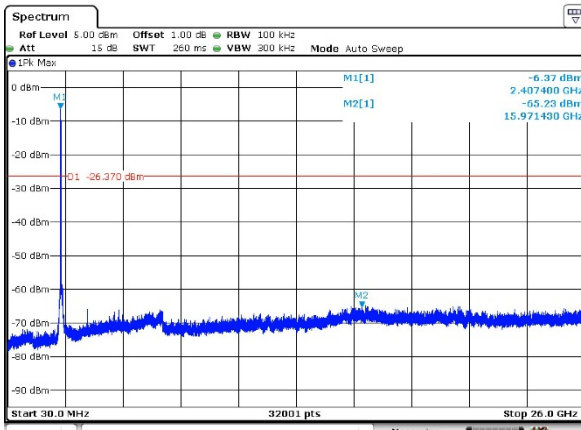
CH06



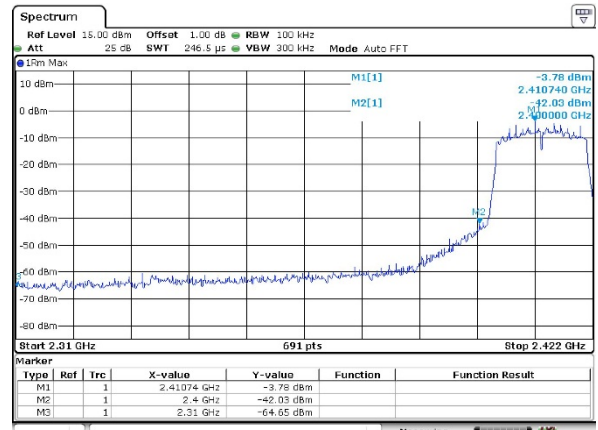
CH11-SE

CH11-Bandedge

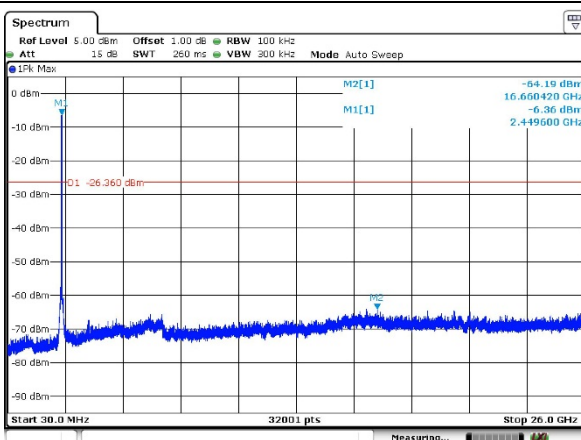
802.11n(H20)



CH01-SE

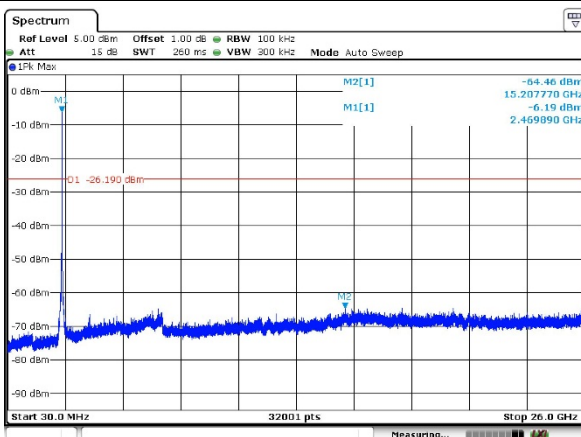


CH01-Bandedge

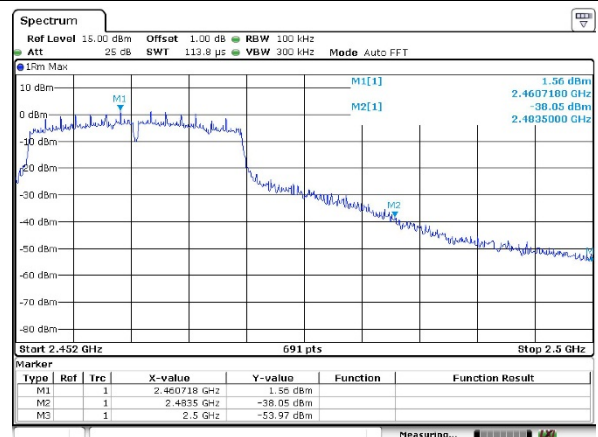


CH06

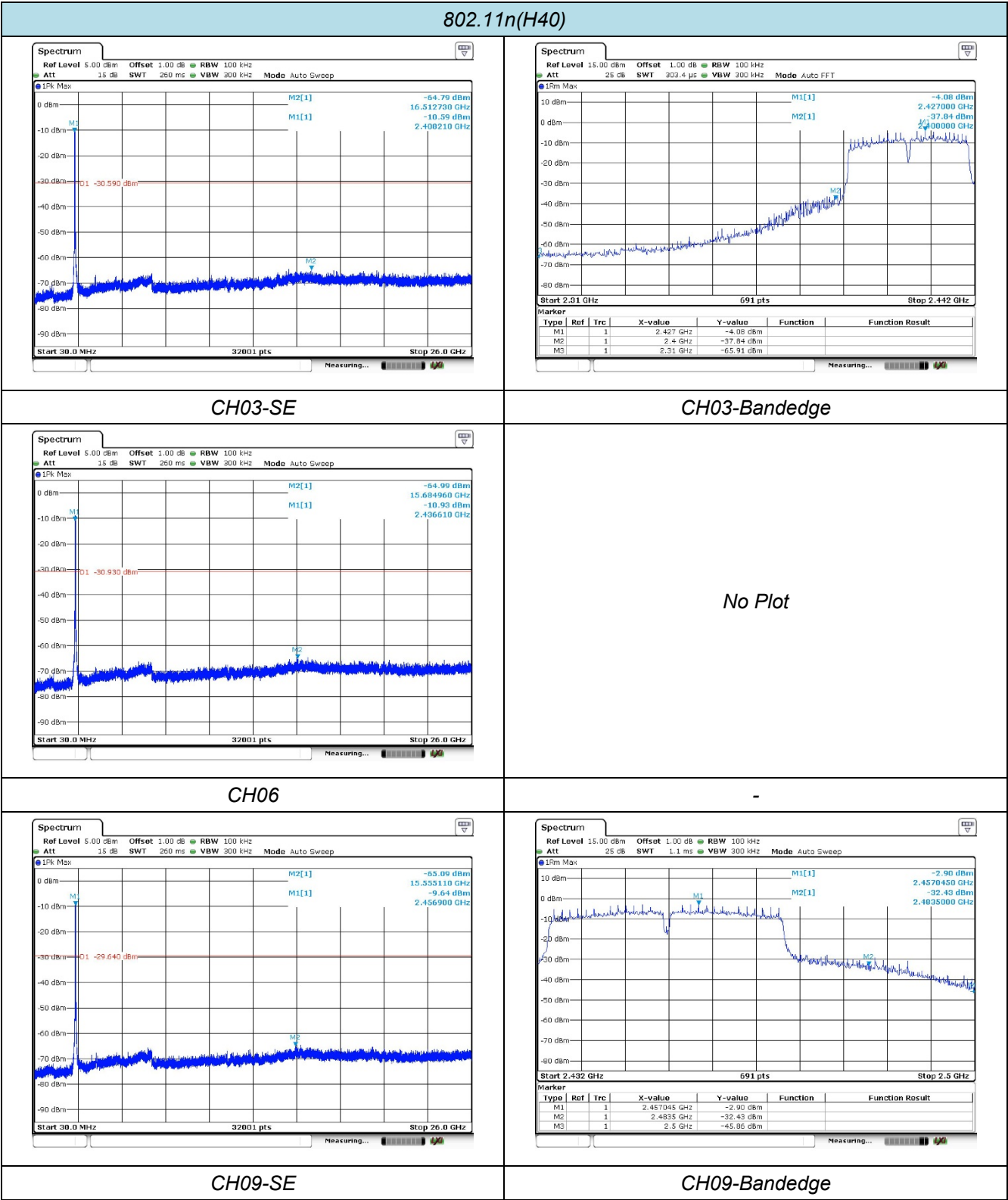
No Plot



CH11-SE



CH11-Bandedge



5.8. Spurious Emission (radiated)

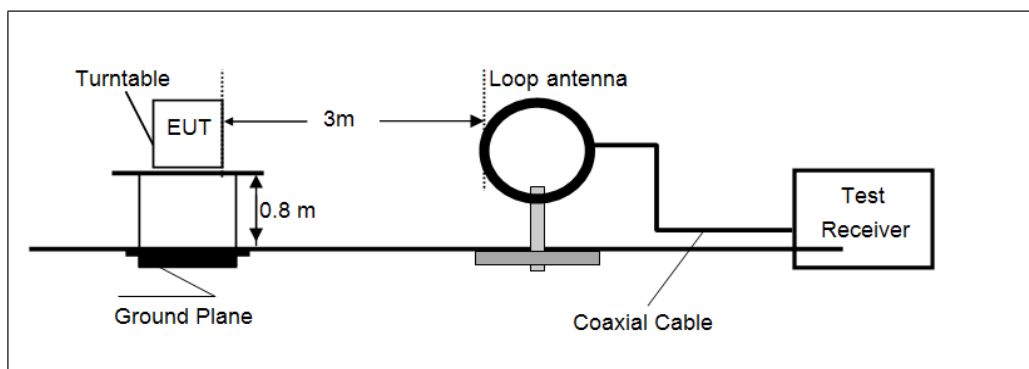
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

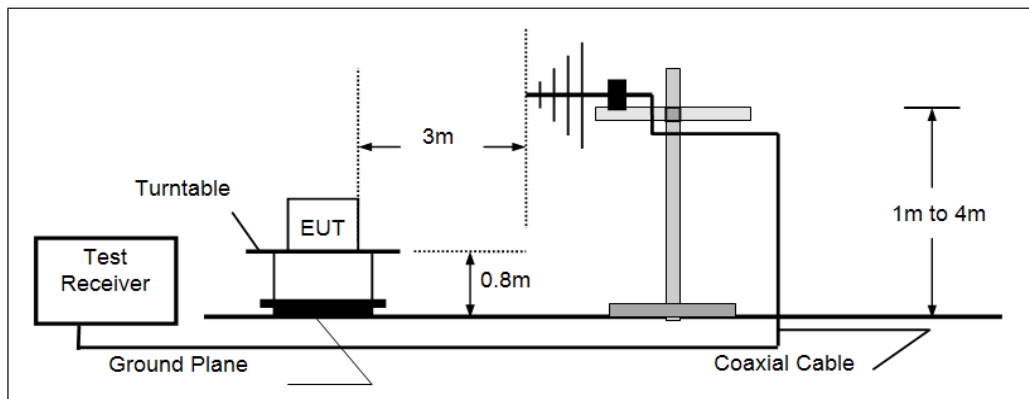
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

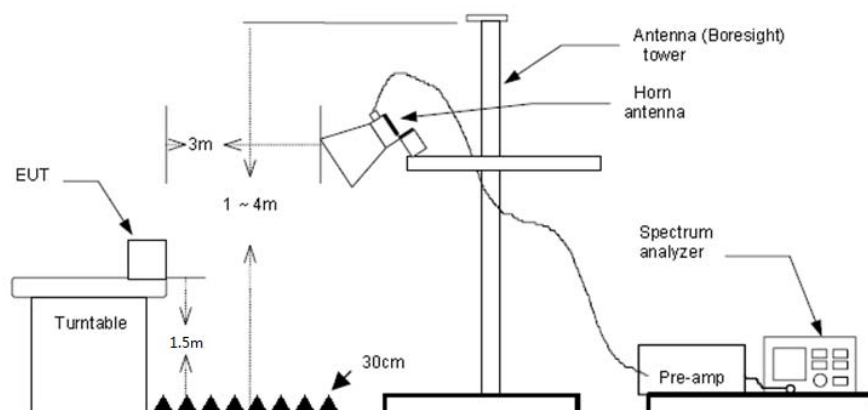
➤ 9kHz ~30MHz



➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was 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. 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.
5. Use the following spectrum analyzer settings
 - (1) Span shall be wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120kHz, VBW=300kHz, 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) Above 1GHz, RBW=1MHz, VBW=3MHz 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 shown 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.

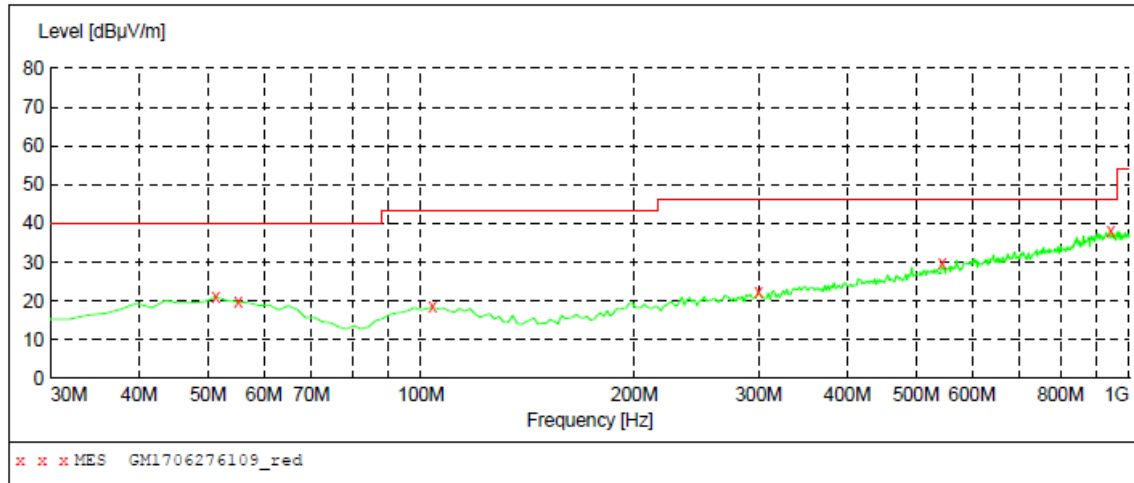
➤ **30MHz ~1000MHz**

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

Polarization:

Vertical

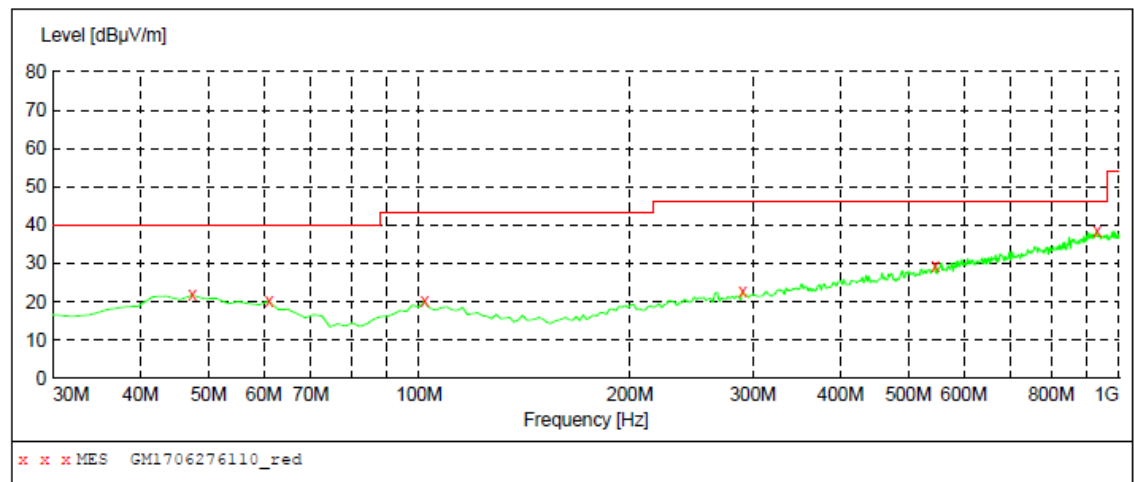
**MEASUREMENT RESULT: "GM1706276109_red"**

6/27/2017 8:45PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
51.340000	21.10	-8.8	40.0	18.9	QP	100.0	250.00	VERTICAL
55.220000	19.80	-9.2	40.0	20.2	QP	100.0	198.00	VERTICAL
103.720000	18.40	-10.5	43.5	25.1	QP	100.0	278.00	VERTICAL
299.660000	22.20	-7.3	46.0	23.8	QP	100.0	354.00	VERTICAL
544.100000	29.70	-0.9	46.0	16.3	QP	100.0	289.00	VERTICAL
941.800000	38.10	7.2	46.0	7.9	QP	100.0	360.00	VERTICAL

Polarization:

Horizontal

**MEASUREMENT RESULT: "GM1706276110_red"**

6/27/2017 8:48PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	21.80	-8.8	40.0	18.2	QP	300.0	280.00	HORIZONTAL
61.040000	20.10	-10.3	40.0	19.9	QP	100.0	147.00	HORIZONTAL
101.780000	20.20	-10.5	43.5	23.3	QP	300.0	29.00	HORIZONTAL
289.960000	22.60	-7.4	46.0	23.4	QP	300.0	119.00	HORIZONTAL
546.040000	29.30	-0.8	46.0	16.7	QP	300.0	201.00	HORIZONTAL
930.160000	38.30	7.1	46.0	7.7	QP	100.0	28.00	HORIZONTAL

➤ Above 1 GHz

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1702.36	37.30	25.20	5.77	36.93	31.34	74.00	-42.66	Vertical	Peak
4138.80	35.79	29.94	8.89	37.79	36.83	74.00	-37.17	Vertical	
4821.76	40.51	31.56	9.55	36.90	44.72	74.00	-29.28	Vertical	
7245.81	37.78	36.25	11.91	35.02	50.92	74.00	-23.08	Vertical	
1626.12	36.58	24.98	5.62	36.77	30.41	74.00	-43.59	Horizontal	
3489.84	36.84	28.92	8.10	38.42	35.44	74.00	-38.56	Horizontal	
4821.76	38.97	31.56	9.55	36.90	43.18	74.00	-30.82	Horizontal	
7245.81	35.56	36.25	11.91	35.02	48.70	74.00	-25.30	Horizontal	

802.11b					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1525.86	35.86	25.56	5.36	36.62	30.16	74.00	-43.84	Vertical	Peak
3216.84	36.75	28.70	7.74	38.23	34.96	74.00	-39.04	Vertical	
4871.10	38.89	31.46	9.59	36.76	43.18	74.00	-30.82	Vertical	
7319.96	34.26	36.30	11.99	34.92	47.63	74.00	-26.37	Vertical	
1626.12	36.22	24.98	5.62	36.77	30.05	74.00	-43.95	Horizontal	
3192.37	36.88	28.80	7.71	38.20	35.19	74.00	-38.81	Horizontal	
4871.10	45.60	31.46	9.59	36.76	49.89	74.00	-24.11	Horizontal	
7319.96	38.51	36.30	11.99	34.92	51.88	74.00	-22.12	Horizontal	

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1621.99	36.18	24.97	5.61	36.77	29.99	74.00	-44.01	Vertical	Peak
3607.26	36.04	29.30	8.28	38.27	35.35	74.00	-38.65	Vertical	
4920.96	43.51	31.42	9.62	36.62	47.93	74.00	-26.07	Vertical	
7394.88	36.26	36.30	12.06	34.83	49.79	74.00	-24.21	Vertical	
1732.97	36.81	25.27	5.83	37.00	30.91	74.00	-43.09	Horizontal	
3192.37	37.34	28.80	7.71	38.20	35.65	74.00	-38.35	Horizontal	
4920.96	44.87	31.42	9.62	36.62	49.29	74.00	-24.71	Horizontal	
7394.88	41.88	36.30	12.06	34.83	55.41	74.00	-18.59	Horizontal	
7394.88	26.26	36.30	12.06	34.83	39.79	54.00	-14.21	Horizontal	Average

Remark:

1. Final Level = Receiver Read level + 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.

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1617.86	37.09	24.95	5.60	36.76	30.88	74.00	-43.12	Vertical	Peak
3489.84	36.15	28.92	8.10	38.42	34.75	74.00	-39.25	Vertical	
4971.32	33.95	31.47	9.65	36.48	38.59	74.00	-35.41	Vertical	
7245.81	38.67	36.25	11.91	35.02	51.81	74.00	-22.19	Vertical	
7245.81	26.68	36.25	11.91	35.02	39.82	54.00	-14.18	Vertical	Average
1521.98	36.72	25.60	5.35	36.62	31.05	74.00	-42.95	Horizontal	Peak
3135.99	36.83	28.80	7.64	38.21	35.06	74.00	-38.94	Horizontal	
4433.26	34.36	30.57	9.18	37.51	36.60	74.00	-37.40	Horizontal	
7245.81	41.04	36.25	11.91	35.02	54.18	74.00	-19.82	Horizontal	
7245.81	27.45	36.25	11.91	35.02	40.59	54.00	-13.41	Horizontal	Average

802.11g					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1698.03	36.54	25.19	5.76	36.93	30.56	74.00	-43.44	Vertical	Peak
3026.20	36.74	28.65	7.51	38.23	34.67	74.00	-39.33	Vertical	
4014.29	35.85	29.73	8.79	38.08	36.29	74.00	-37.71	Vertical	
5546.36	33.28	31.85	10.23	36.12	39.24	74.00	-34.76	Vertical	
1333.28	35.43	26.10	4.89	36.50	29.92	74.00	-44.08	Horizontal	
3151.99	36.14	28.80	7.66	38.21	34.39	74.00	-39.61	Horizontal	
4641.12	34.11	31.02	9.48	37.17	37.44	74.00	-36.56	Horizontal	
7027.82	31.58	35.38	11.85	34.83	43.98	74.00	-30.02	Horizontal	

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1483.73	35.12	25.82	5.24	36.57	29.61	74.00	-44.39	Vertical	Peak
3120.06	36.29	28.80	7.62	38.21	34.50	74.00	-39.50	Vertical	
5762.24	32.09	31.91	10.53	35.42	39.11	74.00	-34.89	Vertical	
7063.69	31.90	35.49	11.85	34.88	44.36	74.00	-29.64	Vertical	
1402.92	35.70	25.90	5.01	36.46	30.15	74.00	-43.85	Horizontal	
3472.12	36.65	28.78	8.07	38.45	35.05	74.00	-38.95	Horizontal	
4676.70	33.96	31.13	9.49	37.13	37.45	74.00	-36.55	Horizontal	
7045.74	32.30	35.44	11.85	34.86	44.73	74.00	-29.27	Horizontal	

Remark:

1. Final Level = Receiver Read level + 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.

802.11n(H20)					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1746.25	36.97	25.29	5.86	37.03	31.09	74.00	-42.91	Vertical	Peak
3498.74	36.28	28.99	8.11	38.41	34.97	74.00	-39.03	Vertical	
4512.97	36.07	30.73	9.32	37.37	38.75	74.00	-35.25	Vertical	
7227.39	33.67	36.23	11.89	35.04	46.75	74.00	-27.25	Vertical	
1764.12	37.30	25.33	5.89	37.06	31.46	74.00	-42.54	Horizontal	
3200.50	36.59	28.80	7.72	38.20	34.91	74.00	-39.09	Horizontal	
4772.91	34.22	31.49	9.53	37.00	38.24	74.00	-35.76	Horizontal	
7245.81	36.58	36.25	11.91	35.02	49.72	74.00	-24.28	Horizontal	

802.11n(H20)					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1750.70	36.40	25.30	5.86	37.04	30.52	74.00	-43.48	Vertical	Peak
3096.33	35.87	28.79	7.60	38.22	34.04	74.00	-39.96	Vertical	
4321.84	36.66	30.27	9.06	37.60	38.39	74.00	-35.61	Vertical	
7319.96	33.16	36.30	11.99	34.92	46.53	74.00	-27.47	Vertical	
1746.25	39.46	25.29	5.86	37.03	33.58	74.00	-40.42	Horizontal	
3104.22	35.55	28.80	7.61	38.21	33.75	74.00	-40.25	Horizontal	
4871.10	36.60	31.46	9.59	36.76	40.89	74.00	-33.11	Horizontal	
7338.62	36.23	36.30	12.01	34.90	49.64	74.00	-24.36	Horizontal	

802.11n(H20)					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1741.81	35.78	25.29	5.85	37.02	29.90	74.00	-44.10	Vertical	Peak
3728.63	35.32	29.39	8.42	38.24	34.89	74.00	-39.11	Vertical	
5284.50	33.44	31.33	9.96	36.45	38.28	74.00	-35.72	Vertical	
7394.88	35.26	36.30	12.06	34.83	48.79	74.00	-25.21	Vertical	
1663.80	36.78	25.09	5.69	36.85	30.71	74.00	-43.29	Horizontal	
3168.08	35.99	28.80	7.68	38.20	34.27	74.00	-39.73	Horizontal	
4933.50	34.87	31.43	9.63	36.59	39.34	74.00	-34.66	Horizontal	
7394.88	33.35	36.30	12.06	34.83	46.88	74.00	-27.12	Horizontal	

Remark:

1. Final Level = Receiver Read level + 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.

802.11n(H40)					CH03				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1188.98	36.20	26.22	4.64	36.58	30.48	74.00	-43.52	Vertical	Peak
3662.78	35.53	29.30	8.34	38.26	34.91	74.00	-39.09	Vertical	
4933.50	32.98	31.43	9.63	36.59	37.45	74.00	-36.55	Vertical	
7900.86	32.34	36.70	12.78	34.80	47.02	74.00	-26.98	Vertical	
1764.12	35.70	25.33	5.89	37.06	29.86	74.00	-44.14	Horizontal	
4191.82	34.00	29.99	8.93	37.67	35.25	74.00	-38.75	Horizontal	
5060.69	33.76	31.74	9.72	36.34	38.88	74.00	-35.12	Horizontal	
7264.28	35.80	36.26	11.93	35.00	48.99	74.00	-25.01	Horizontal	

802.11n(H40)					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1306.41	36.69	26.18	4.84	36.51	31.20	74.00	-42.80	Vertical	Peak
3184.25	36.35	28.80	7.70	38.20	34.65	74.00	-39.35	Vertical	
5112.49	33.01	31.85	9.76	36.29	38.33	74.00	-35.67	Vertical	
8022.46	32.91	37.08	12.35	34.53	47.81	74.00	-26.19	Vertical	
1326.51	35.39	26.12	4.88	36.50	29.89	74.00	-44.11	Horizontal	
3766.79	35.85	29.50	8.46	38.24	35.57	74.00	-38.43	Horizontal	
5073.59	34.54	31.80	9.73	36.33	39.74	74.00	-34.26	Horizontal	
7319.96	36.87	36.30	11.99	34.92	50.24	74.00	-23.76	Horizontal	

802.11n(H40)					CH09				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1273.57	36.58	26.23	4.79	36.53	31.07	74.00	-42.93	Vertical	Peak
3135.99	36.33	28.80	7.64	38.21	34.56	74.00	-39.44	Vertical	
4895.97	35.29	31.41	9.60	36.69	39.61	74.00	-34.39	Vertical	
7338.62	36.12	36.30	12.01	34.90	49.53	74.00	-24.47	Vertical	
1680.83	36.51	25.14	5.73	36.89	30.49	74.00	-43.51	Horizontal	
3579.82	35.40	29.24	8.24	38.30	34.58	74.00	-39.42	Horizontal	
5532.26	32.96	31.87	10.22	36.18	38.87	74.00	-35.13	Horizontal	
7941.19	33.67	36.87	12.58	34.69	48.43	74.00	-25.57	Horizontal	

Remark:

1. Final Level = Receiver Read level + 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.

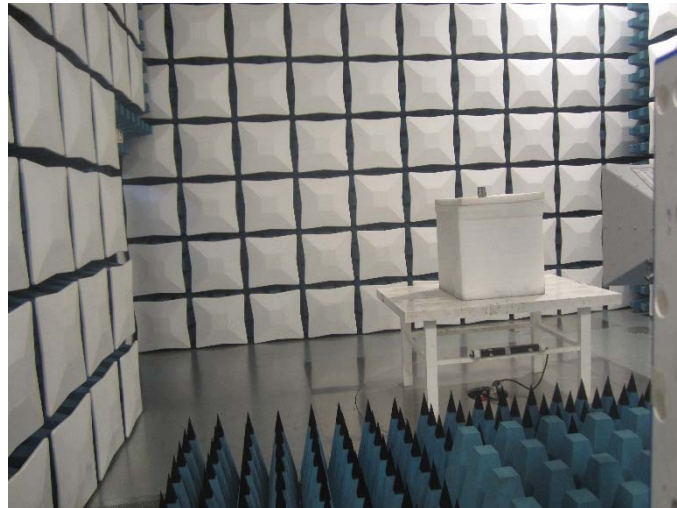
6. Test Setup Photos of the EUT

Conducted Emission



Radiated Emission





7. External and Internal Photos of the EUT

Reference to Test Report No.: TRE1706012501.

.....End of Report.....