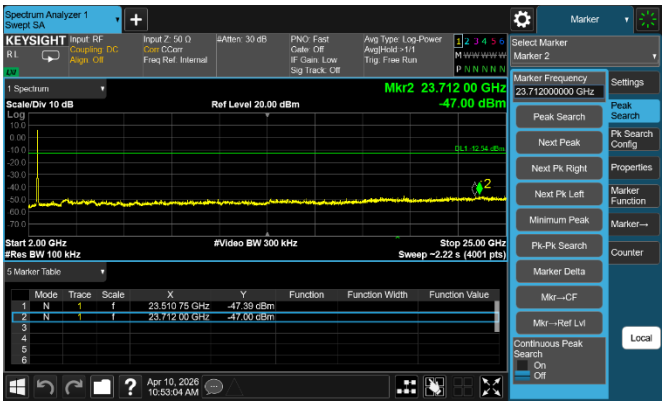
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL

802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

A.4 Band Edge (Authorized-band band-edge)

Note 1: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Test Data

802.11b Mode：

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-36.12	9.84	-10.16	Pass
High	-47.78	9.47	-10.53	Pass

802.11g Mode：

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-22.38	6.90	-13.10	Pass
High	-37.80	6.15	-13.85	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-18.42	7.85	-12.15	Pass
High	-32.32	6.56	-13.44	Pass

Test Plots

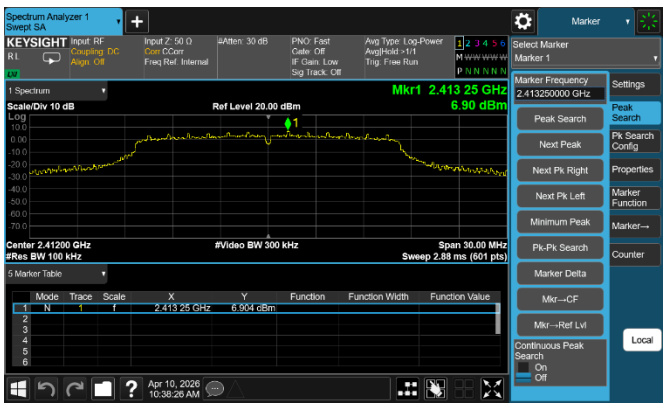
802.11b LOW CHANNEL, CARRIER LEVEL

802.11b LOW CHANNEL, BAND EDGE

802.11b HIGH CHANNEL, CARRIER LEVEL

802.11b HIGH CHANNEL, BAND EDGE

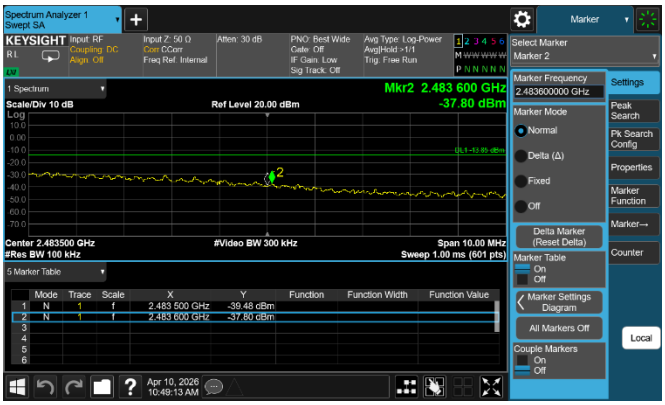
802.11g LOW CHANNEL, CARRIER LEVEL



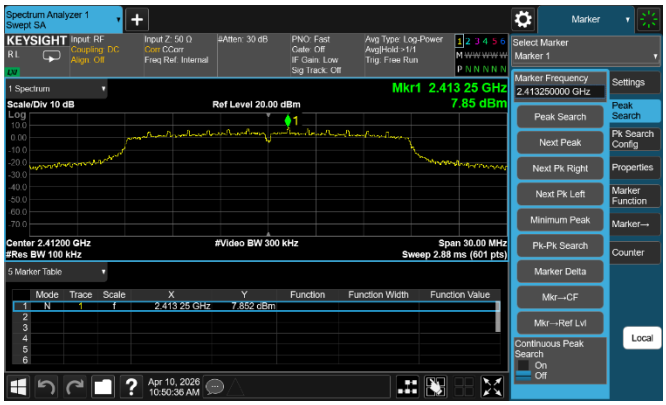
802.11g LOW CHANNEL, BAND EDGE

802.11g HIGH CHANNEL, CARRIER LEVEL

802.11g HIGH CHANNEL, BAND EDGE



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, BAND EDGE

802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL

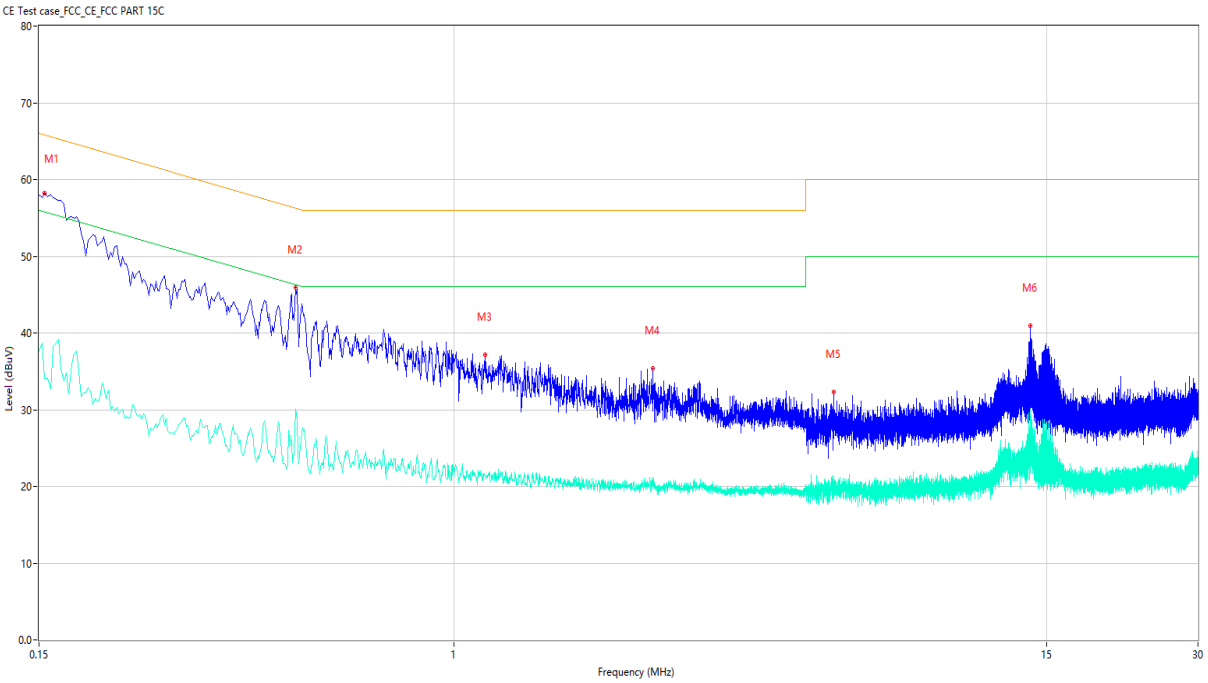
802.11n-20 MHz HIGH CHANNEL, BAND EDGE

A.5 Conducted Emission

Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.
Note 22: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

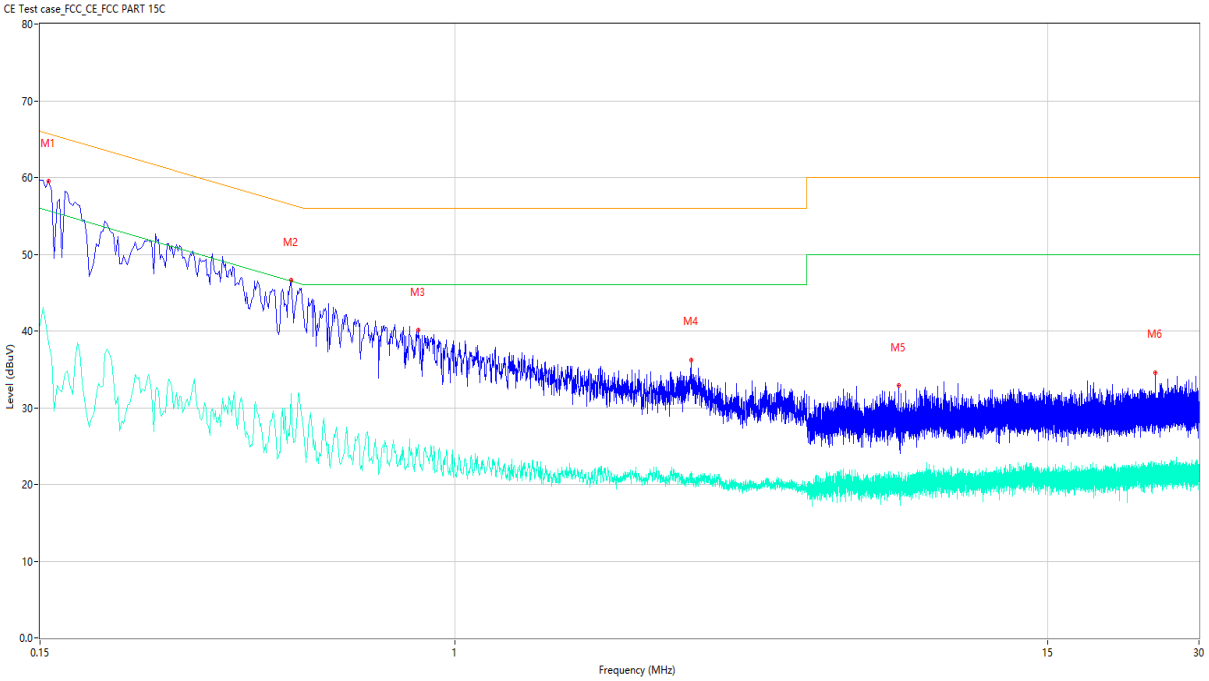
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.154	58.18	10.00	65.78	7.60	Peak	L	Pass
1**	0.154	34.04	10.00	55.78	21.74	AV	L	Pass
2	0.484	45.91	9.99	56.27	10.36	Peak	L	Pass
2**	0.484	30.09	9.99	46.27	16.18	AV	L	Pass
3	1.152	37.16	10.04	56.00	18.84	Peak	L	Pass
3**	1.152	21.38	10.04	46.00	24.62	AV	L	Pass
4	2.482	35.37	10.05	56.00	20.63	Peak	L	Pass
4**	2.482	20.09	10.05	46.00	25.91	AV	L	Pass
5	5.682	32.27	10.25	60.00	27.73	Peak	L	Pass
5**	5.682	21.33	10.25	50.00	28.67	AV	L	Pass
6	13.944	40.94	10.81	60.00	19.06	Peak	L	Pass
6**	13.944	25.43	10.81	50.00	24.57	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.156	59.48	10.00	65.67	6.19	Peak	N	Pass
1**	0.156	38.45	10.00	55.67	17.22	AV	N	Pass
2	0.472	46.61	9.99	56.48	9.87	Peak	N	Pass
2**	0.472	31.81	9.99	46.48	14.67	AV	N	Pass
3	0.846	40.10	10.03	56.00	15.90	Peak	N	Pass
3**	0.846	24.71	10.03	46.00	21.29	AV	N	Pass
4	2.948	36.26	10.08	56.00	19.74	Peak	N	Pass
4**	2.948	21.33	10.08	46.00	24.67	AV	N	Pass
5	7.602	32.90	10.41	60.00	27.10	Peak	N	Pass
5**	7.602	21.65	10.41	50.00	28.35	AV	N	Pass
6	24.592	34.57	11.22	60.00	25.43	Peak	N	Pass
6**	24.592	22.40	11.22	50.00	27.60	AV	N	Pass

A.6 Radiated Emission

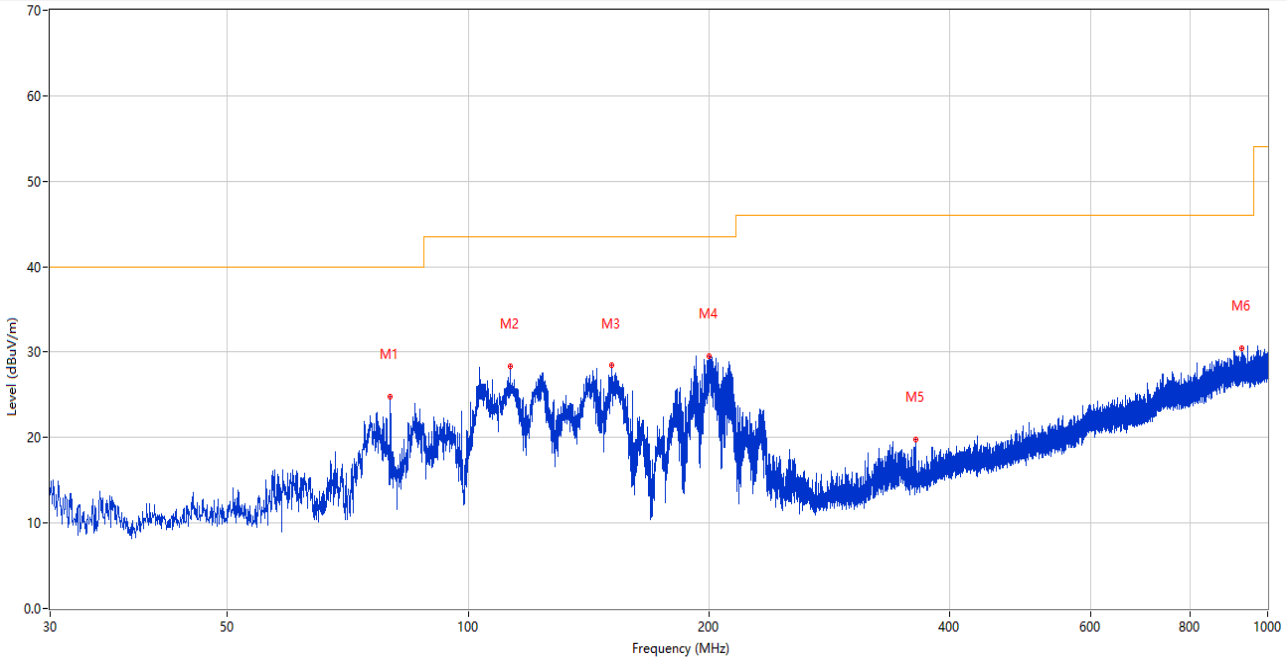
Note [1]: The symbol of "--" in the table which means not application.
Note [2]: For the test data above 1 GHz，According the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.
Note [3]: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.
Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

Spot Check Verification Summary:

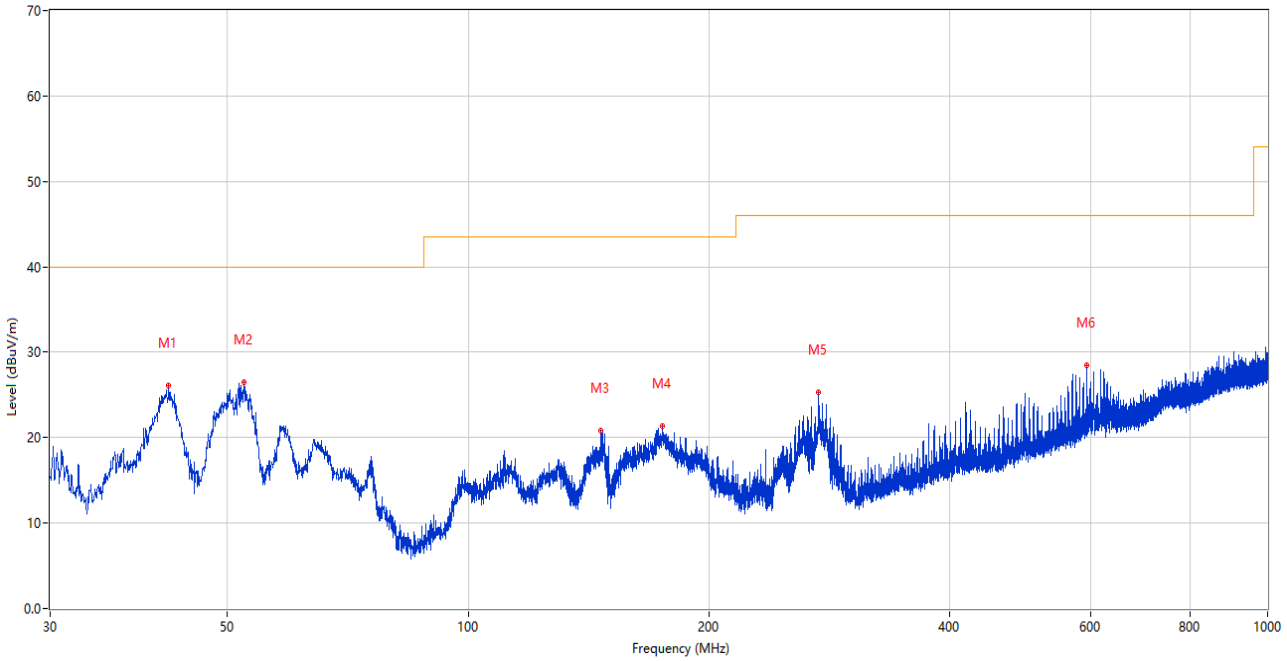
Test Item	Test Mode	Worst Case Test Result			
		Original Model		Spot Check Model	
		Frequency (MHz)	dBuV/m	Frequency (MHz)	dBuV/m
Radiated Emission	802.11b	4874.500	49.84	4874.500	49.64

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	79.955	24.85	-30.97	40.0	15.15	Peak	150.00	100	Horizontal	Pass
2	112.838	28.30	-26.95	43.5	15.20	Peak	144.00	200	Horizontal	Pass
3	151.105	28.41	-29.49	43.5	15.09	Peak	120.00	100	Horizontal	Pass
4	200.283	29.51	-25.80	43.5	13.99	Peak	298.00	100	Horizontal	Pass
5	362.565	19.84	-21.73	46.0	26.16	Peak	257.00	100	Horizontal	Pass
6	927.105	30.45	-8.85	46.0	15.55	Peak	304.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



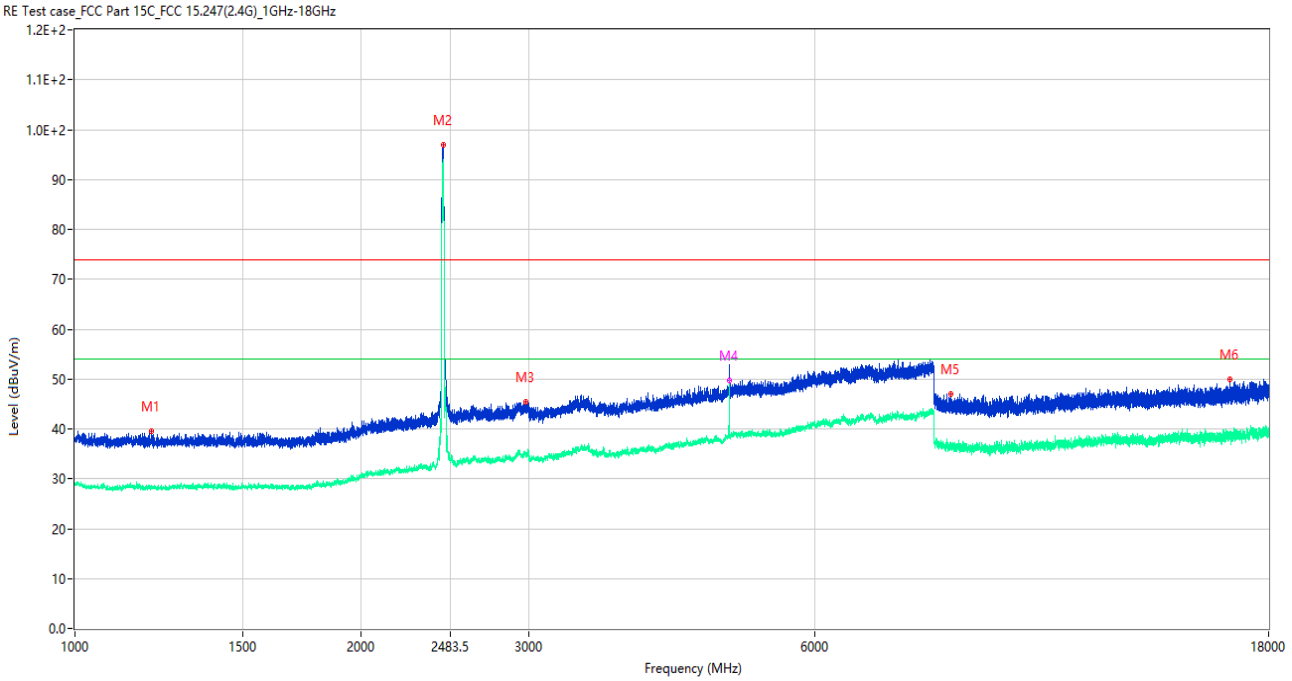
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.222	26.04	-25.37	40.0	13.96	Peak	0.00	100	Vertical	Pass
2	52.456	26.46	-24.86	40.0	13.54	Peak	24.00	100	Vertical	Pass
3	146.642	20.79	-29.83	43.5	22.71	Peak	0.00	100	Vertical	Pass
4	174.967	21.38	-28.46	43.5	22.12	Peak	0.00	100	Vertical	Pass
5	274.488	25.33	-24.47	46.0	20.67	Peak	0.00	100	Vertical	Pass
6	594.297	28.49	-15.73	46.0	17.51	Peak	357.00	100	Vertical	Pass

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

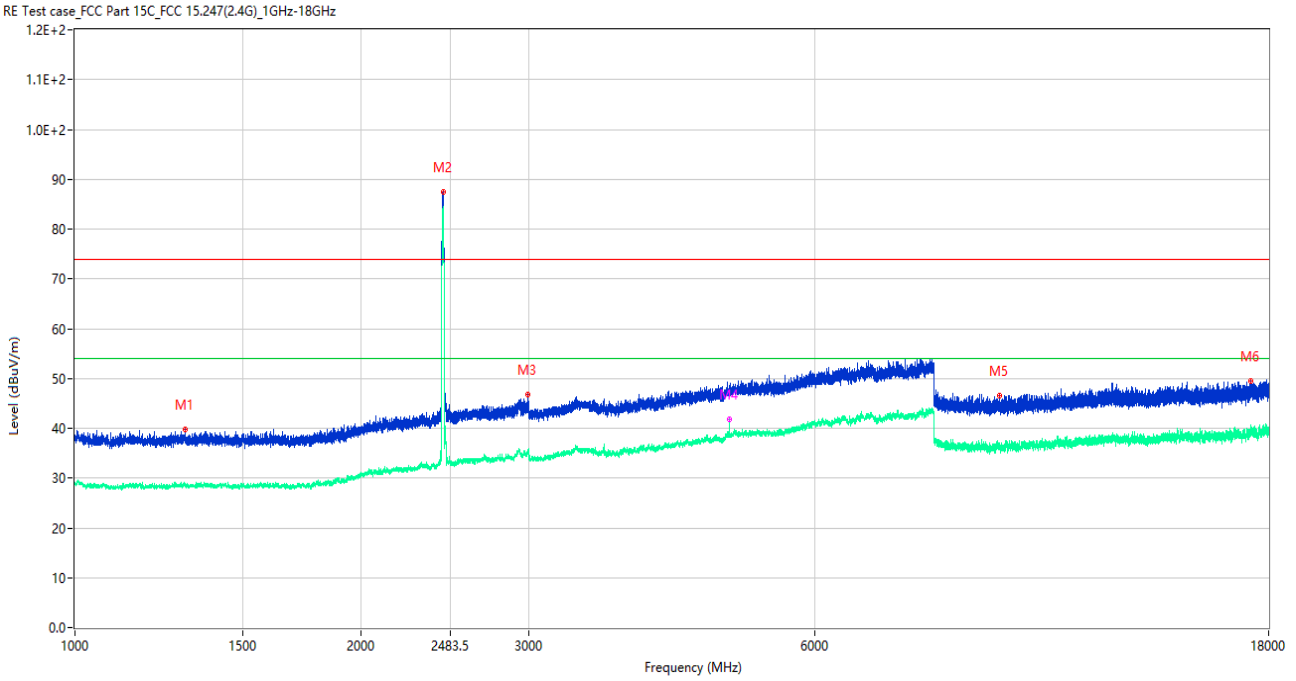
Note 3: This report verifies only the worst mode.

1 GHz to 18 GHz, ANT H 802.11b Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1202.750	39.61	-15.75	74.0	34.39	Peak	184.00	150	Horizontal	Pass
1**	1202.750	27.98	-15.75	54.0	26.02	AV	184.00	150	Horizontal	Pass
2	2438.250	96.88	-12.38	74.0	-22.88	Peak	245.00	150	Horizontal	N/A
2**	2438.250	94.01	-12.38	54.0	-40.01	AV	245.00	150	Horizontal	N/A
3	2978.000	45.40	-8.91	74.0	28.60	Peak	26.00	150	Horizontal	Pass
3**	2978.000	35.17	-8.91	54.0	18.83	AV	26.00	150	Horizontal	Pass
4	4874.500	52.22	-2.25	74.0	21.78	Peak	179.00	150	Horizontal	Pass
4**	4874.500	49.64	-2.25	54.0	4.36	AV	179.00	150	Horizontal	Pass
5	8338.500	47.01	-4.82	74.0	26.99	Peak	125.00	150	Horizontal	Pass
5**	8338.500	36.94	-4.82	54.0	17.06	AV	125.00	150	Horizontal	Pass
6	16381.000	49.87	-1.34	74.0	24.13	Peak	154.00	150	Horizontal	Pass
6**	16381.000	38.05	-1.34	54.0	15.95	AV	154.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Low Channel



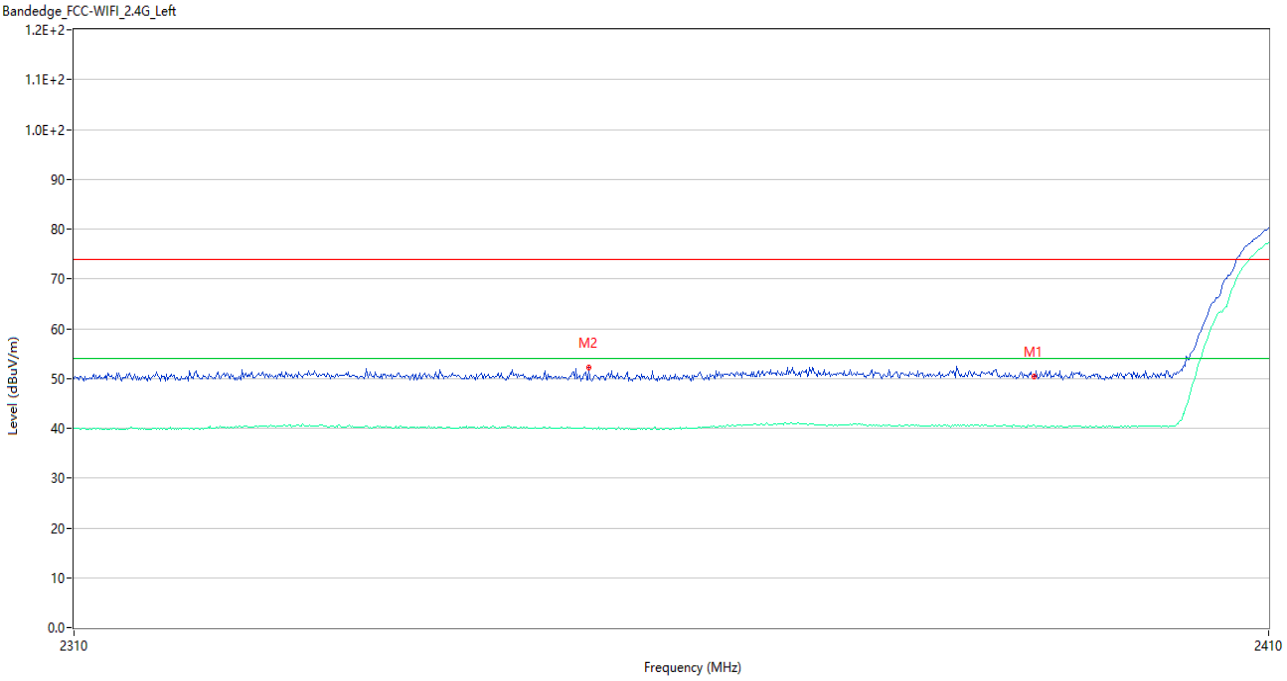
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1305.250	39.84	-15.60	74.0	34.16	Peak	129.00	150	Vertical	Pass
1**	1305.250	28.54	-15.60	54.0	25.46	AV	129.00	150	Vertical	Pass
2	2438.250	87.46	-12.38	74.0	-13.46	Peak	153.00	150	Vertical	N/A
2**	2438.250	84.56	-12.38	54.0	-30.56	AV	153.00	150	Vertical	N/A
3	2995.000	46.79	-8.89	74.0	27.21	Peak	11.00	150	Vertical	Pass
3**	2995.000	35.26	-8.89	54.0	18.74	AV	11.00	150	Vertical	Pass
4	4874.500	47.86	-2.25	74.0	26.14	Peak	170.00	150	Vertical	Pass
4**	4874.500	41.79	-2.25	54.0	12.21	AV	170.00	150	Vertical	Pass
5	9375.500	46.50	-4.75	74.0	27.50	Peak	349.00	150	Vertical	Pass
5**	9375.500	36.61	-4.75	54.0	17.39	AV	349.00	150	Vertical	Pass
6	17255.500	49.44	-0.96	74.0	24.56	Peak	349.00	150	Vertical	Pass
6**	17255.500	39.57	-0.96	54.0	14.43	AV	349.00	150	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the plots for emissions values.
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold.
Note 3: According the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.
Note 4: This report verifies only the worst mode.
Test Data and Plots
Spot Check Verification Summary:

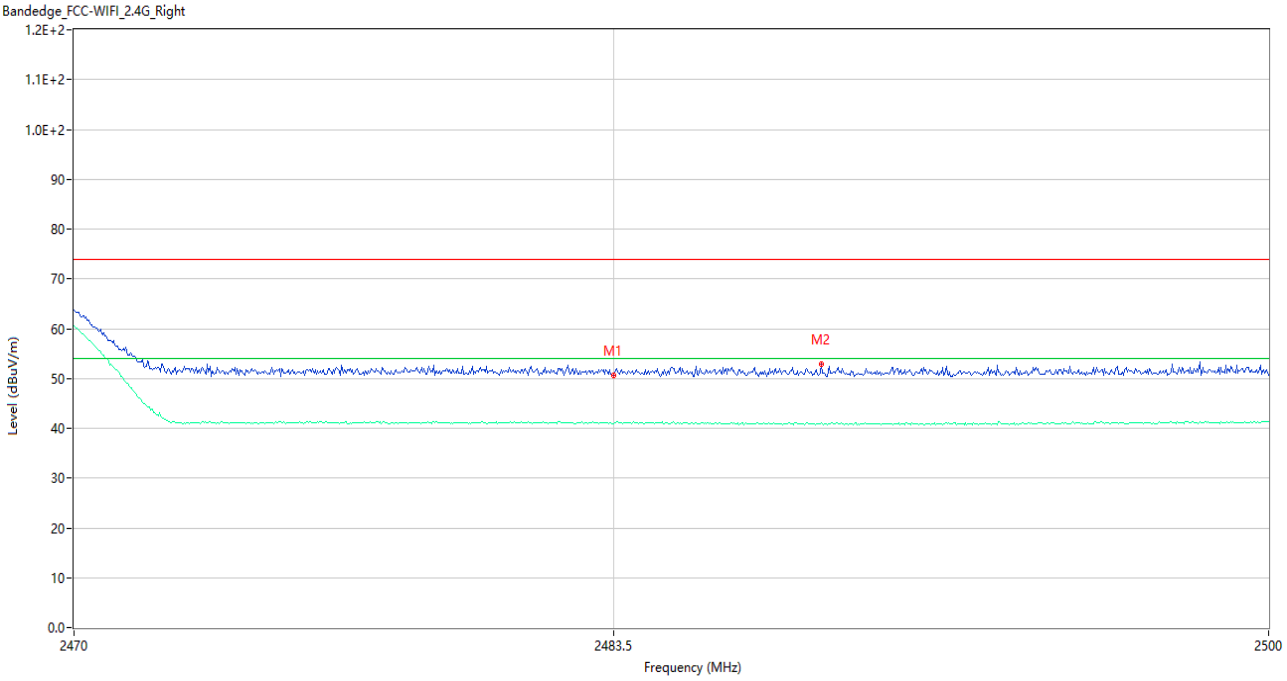
Test Item	Test Mode	Worst Case Test Result			
		Original Model		Spot Check Model	
		Frequency (MHz)	dBuV/m	Frequency (MHz)	dBuV/m
Band Edge (Restricted-band band-edge)	802.11b	2483.500	41.31	2390.000	40.30

802.11b LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.45	-4.87	74.0	23.55	Peak	0.45	150	Vertical	Pass
1**	2390.000	40.30	-4.87	54.0	13.70	AV	0.45	150	Vertical	Pass
2	2352.600	52.26	-5.03	74.0	21.74	Peak	254.00	150	Vertical	Pass
2**	2352.600	40.09	-5.03	54.0	13.91	AV	254.00	150	Vertical	Pass

802.11b HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	50.71	-3.78	74.0	23.29	Peak	110.00	150	Vertical	Pass
1**	2483.500	40.27	-3.78	54.0	13.73	AV	110.00	150	Vertical	Pass
2	2488.720	52.84	-3.82	74.0	21.16	Peak	60.00	150	Vertical	Pass
2**	2488.720	40.06	-3.82	54.0	13.94	AV	60.00	150	Vertical	Pass

A.8 Power Spectral Density (PSD)

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.98	8
Middle	-9.80	8
High	-10.50	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.46	8
Middle	-13.12	8
High	-13.23	8

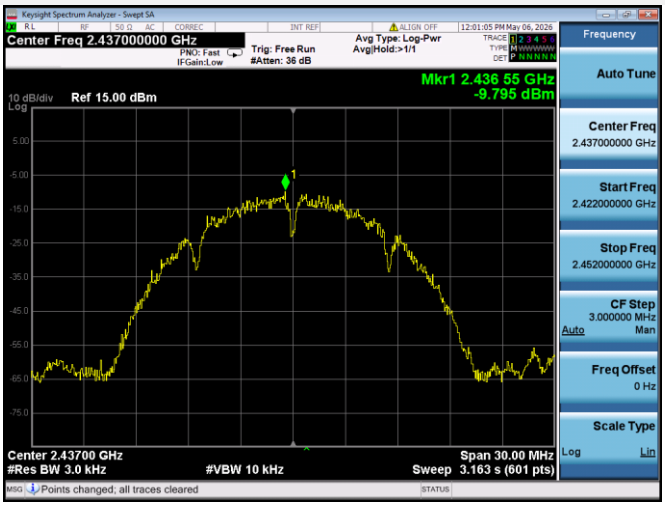
802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.46	8
Middle	-12.28	8
High	-12.10	8

Test Plots

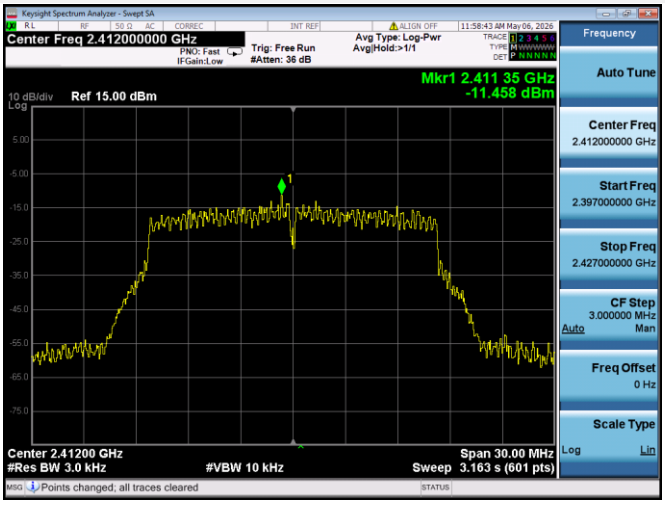
802.11b LOW CHANNEL

802.11b MIDDLE CHANNEL

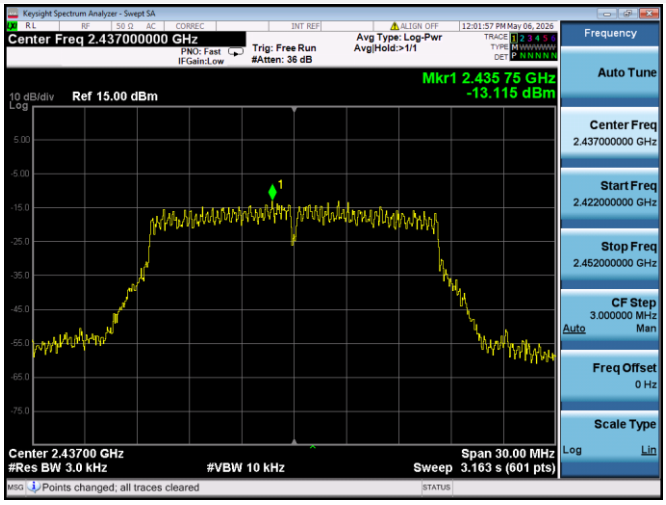


802.11b HIGH CHANNEL

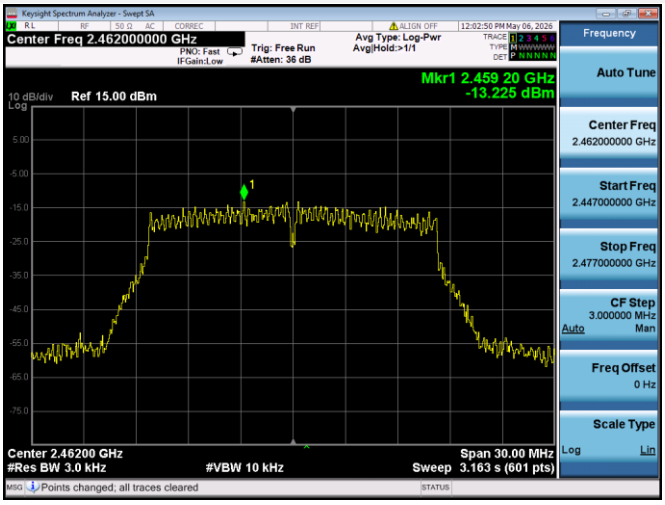
802.11g LOW CHANNEL



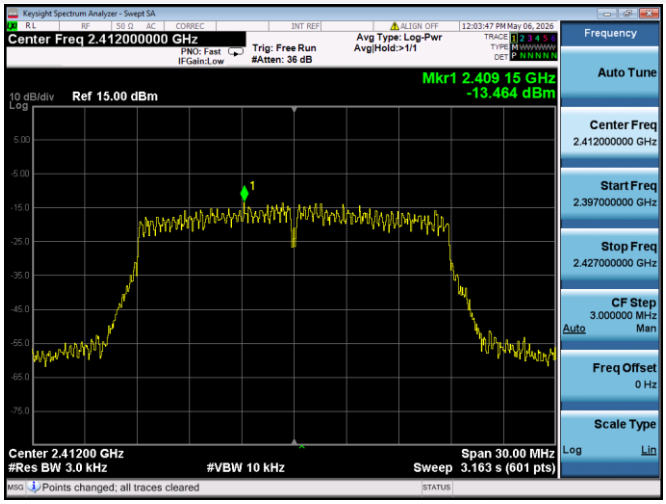
802.11g MIDDLE CHANNEL



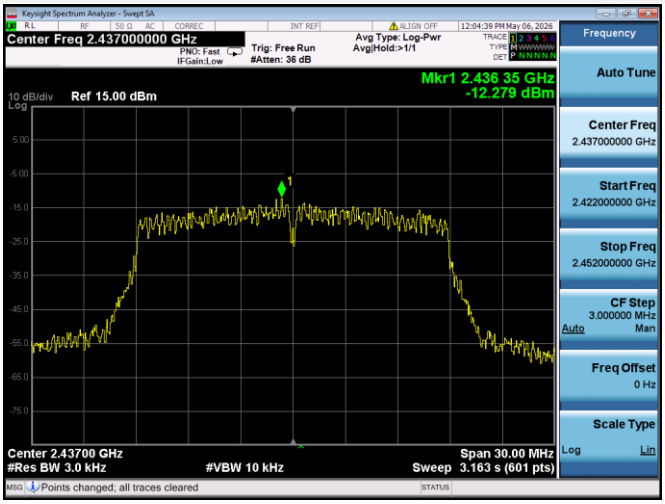
802.11g HIGH CHANNEL



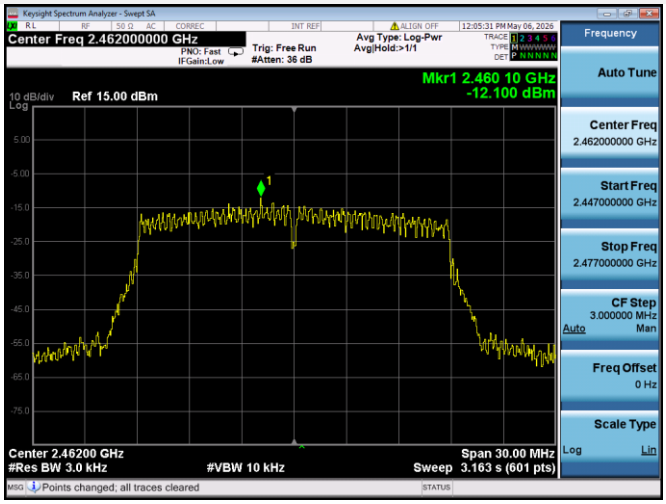
802.11n-20 MHz LOW CHANNEL



802.11 n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-CC26050344-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26050344-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26050344-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.

2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.

3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.

4. The test data and results are only valid for the tested samples provided by the customer.

5. This report shall not be partially reproduced without the written permission of the Testing Center.

6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--