

Appendix A2

2.4G WiFi Test Data

Conducted Test Data

Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
IEEE 802.11b	1	16.60	≤30	19.10	≤36	PASS
	6	16.89	≤30	19.39	≤36	PASS
	11	16.67	≤30	19.17	≤36	PASS
IEEE 802.11g	1	19.33	≤30	21.83	≤36	PASS
	6	19.56	≤30	22.06	≤36	PASS
	11	19.44	≤30	21.94	≤36	PASS
IEEE 802.11n_20	1	18.74	≤30	21.24	≤36	PASS
	6	19.04	≤30	21.54	≤36	PASS
	11	18.94	≤30	21.44	≤36	PASS

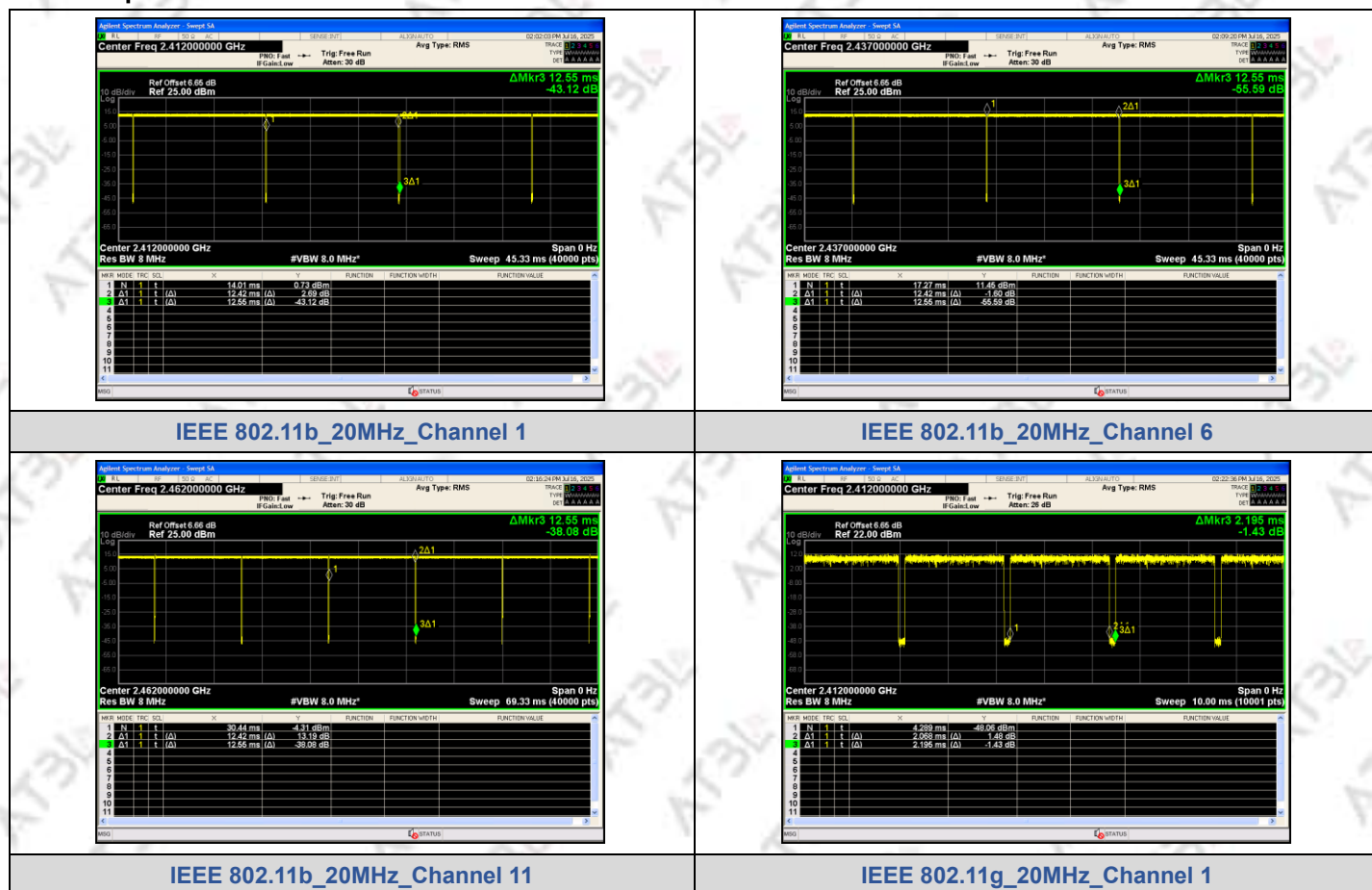
Note: $EIRP = P_{out} + G_{ant}$, where P_{out} is the conducted output power (i.e., the Peak Output Power in the table), and G_{ant} is the antenna gain equal to 2.5 dBi.

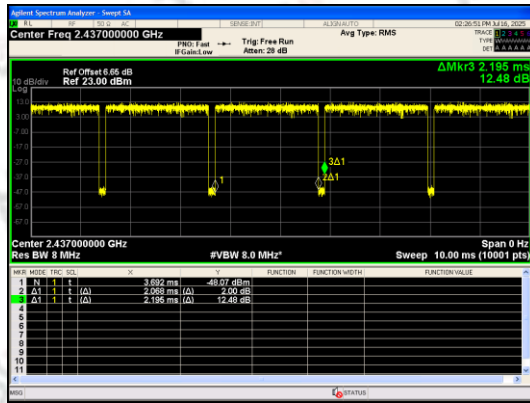
Duty Cycle

Test Result

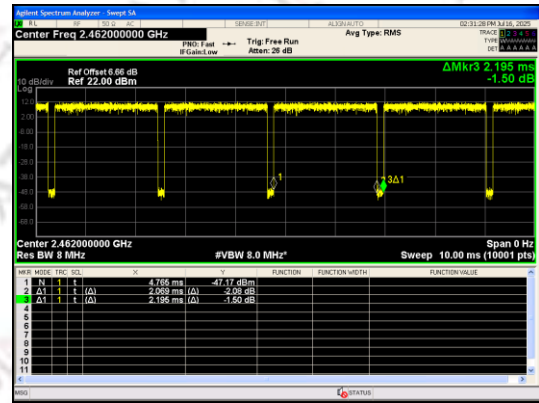
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	0	12.419	12.547	98.98	0.9898	0.0445	0.0805
		6		12.418	12.546	98.98	0.9898	0.0445	0.0805
		11		12.419	12.546	98.99	0.9899	0.0441	0.0805
IEEE 802.11g	6	1		2.068	2.195	94.21	0.9421	0.259	0.4836
		6		2.068	2.195	94.21	0.9421	0.259	0.4836
		11		2.069	2.195	94.26	0.9426	0.2567	0.4833
IEEE 802.11n_20	MCS 0	1		1.924	2.051	93.81	0.9381	0.2775	0.5198
		6		1.924	2.051	93.81	0.9381	0.2775	0.5198
		11		1.925	2.051	93.86	0.9386	0.2752	0.5195

Test Graphs

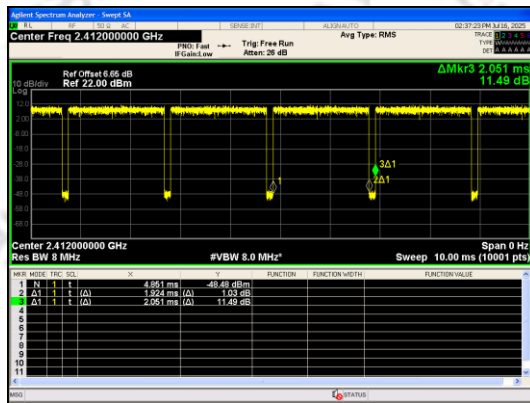




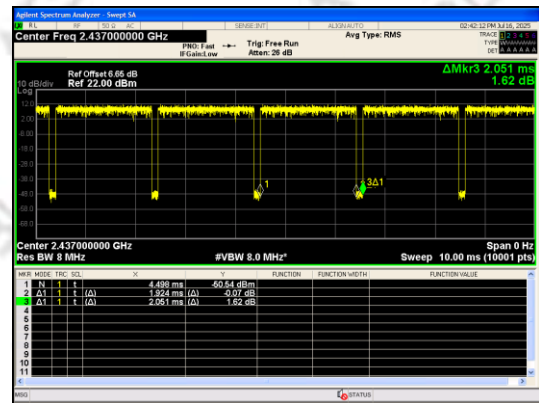
IEEE 802.11g_20MHz_Channel 6



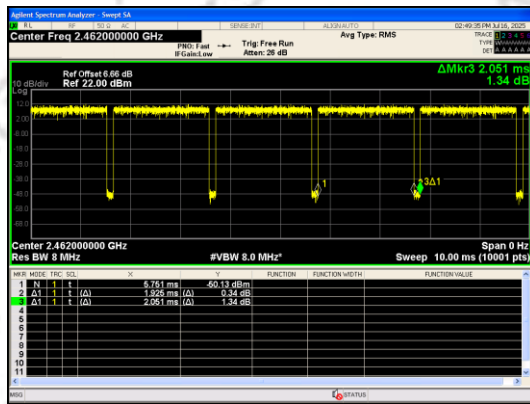
IEEE 802.11g_20MHz_Channel 11



IEEE 802.11n_20MHz_Channel 1



IEEE 802.11n_20MHz_Channel 6



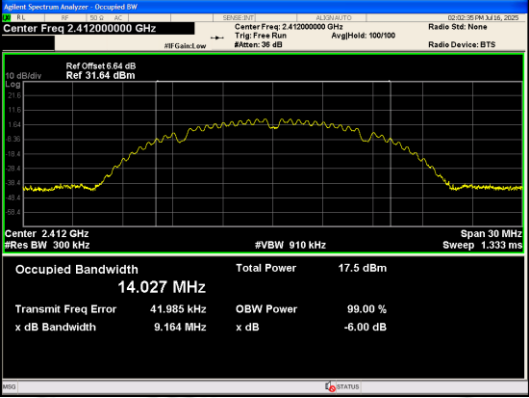
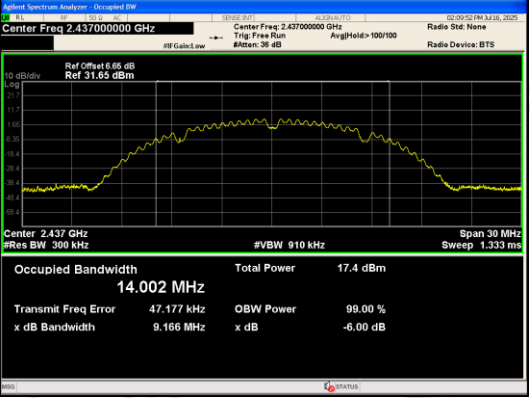
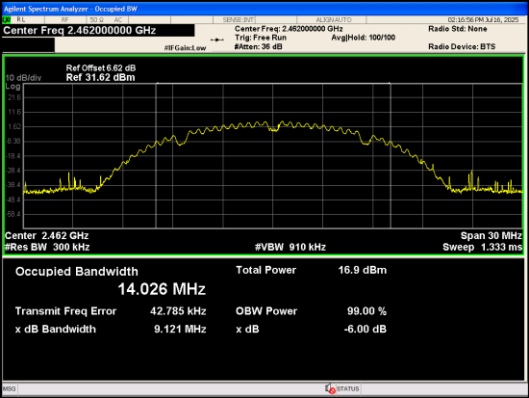
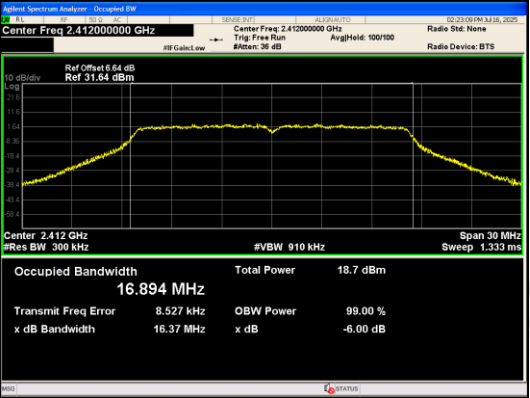
IEEE 802.11n_20MHz_Channel 11

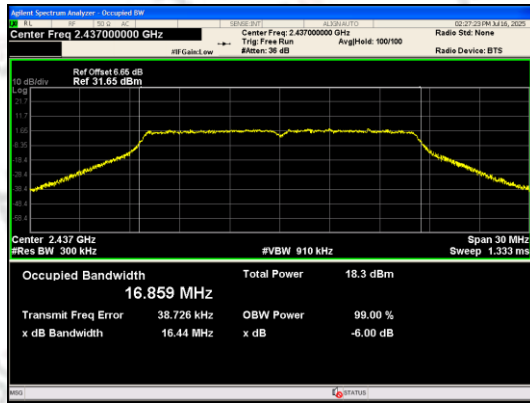
6dB Bandwidth

Test Result

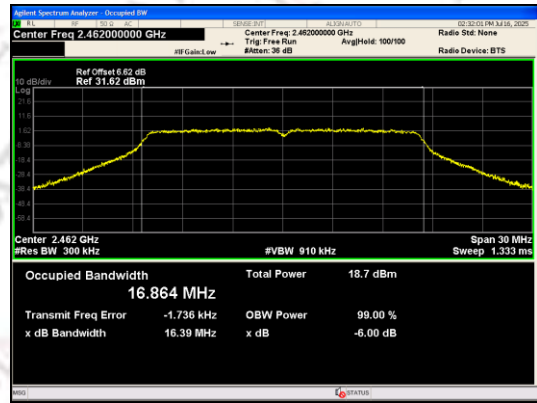
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.160	≥0.5	PASS
	6		2437	9.170		PASS
	11		2462	9.120		PASS
IEEE 802.11g	1		2412	16.37		PASS
	6		2437	16.44		PASS
	11		2462	16.39		PASS
IEEE 802.11n_20	1		2412	17.61		PASS
	6		2437	17.61		PASS
	11		2462	17.65		PASS

Test Graphs

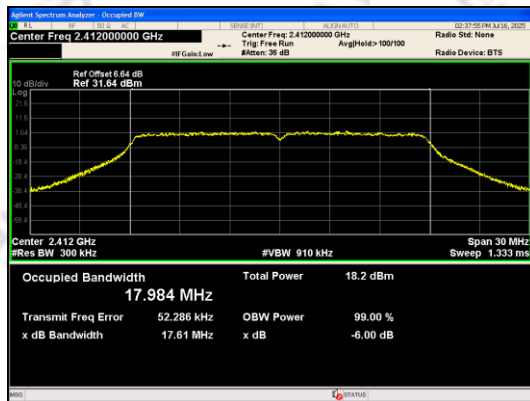
 Center Freq 2.412000000 GHz Ref Offset 6.64 dB Ref 31.64 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 14.027 MHz Total Power 17.5 dBm Transmit Freq Error 41.985 kHz OBW Power 99.00 % x dB Bandwidth 9.164 MHz x dB -6.00 dB	 Center Freq 2.437000000 GHz Ref Offset 6.64 dB Ref 31.65 dBm Center 2.437 GHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 14.002 MHz Total Power 17.4 dBm Transmit Freq Error 47.177 kHz OBW Power 99.00 % x dB Bandwidth 9.166 MHz x dB -6.00 dB
IEEE 802.11b_Channel 1_20MHz_Antenna 0	IEEE 802.11b_Channel 6_20MHz_Antenna 0
 Center Freq 2.462000000 GHz Ref Offset 6.62 dB Ref 31.62 dBm Center 2.462 GHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 14.026 MHz Total Power 16.9 dBm Transmit Freq Error 42.785 kHz OBW Power 99.00 % x dB Bandwidth 9.121 MHz x dB -6.00 dB	 Center Freq 2.412000000 GHz Ref Offset 6.64 dB Ref 31.64 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz Sweep 1.333 ms Occupied Bandwidth 16.894 MHz Total Power 18.7 dBm Transmit Freq Error 8.527 kHz OBW Power 99.00 % x dB Bandwidth 16.37 MHz x dB -6.00 dB
IEEE 802.11b_Channel 11_20MHz_Antenna 0	IEEE 802.11g_Channel 1_20MHz_Antenna 0



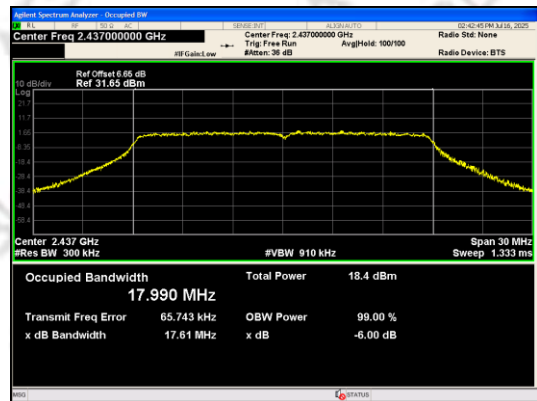
IEEE 802.11g_Channel 6_20MHz_Antenna 0



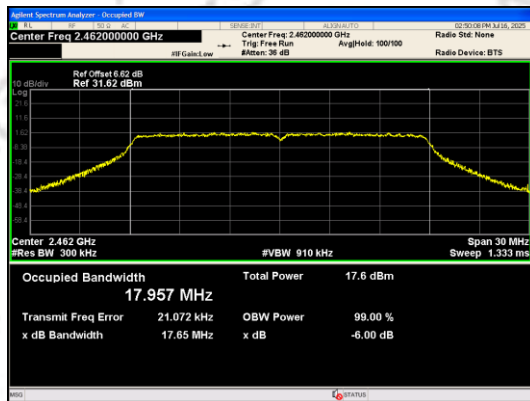
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



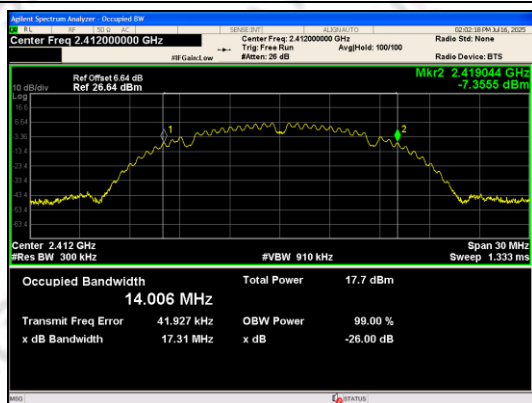
IEEE 802.11n_Channel 11_20MHz_Antenna 0

99% Bandwidth

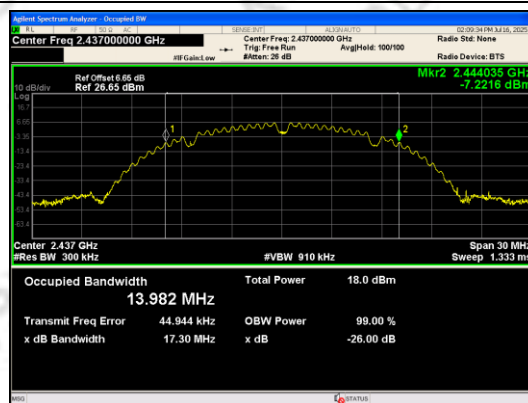
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	14.006
	6		2437	13.982
	11		2462	14.016
IEEE 802.11g	1		2412	16.790
	6		2437	16.731
	11		2462	16.798
IEEE 802.11n_20	1		2412	17.945
	6		2437	17.925
	11		2462	17.932

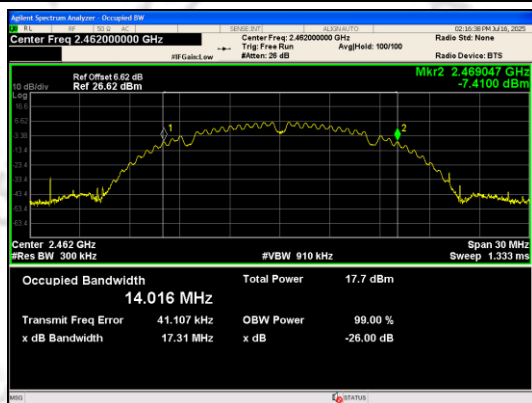
Test Graphs



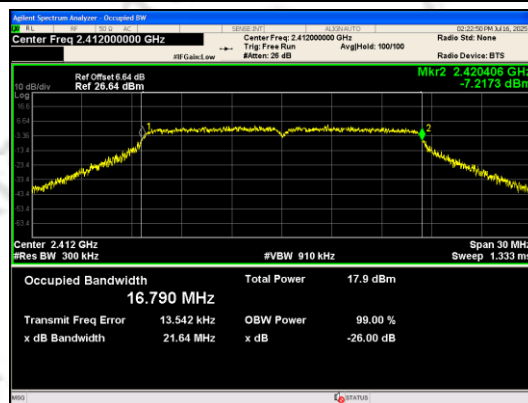
IEEE 802.11b_Channel 1_20MHz_Antenna 0



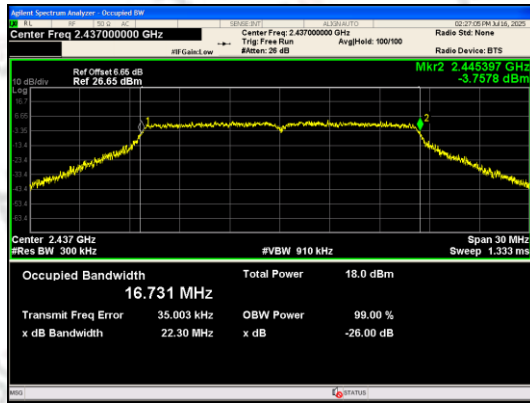
IEEE 802.11b_Channel 6_20MHz_Antenna 0



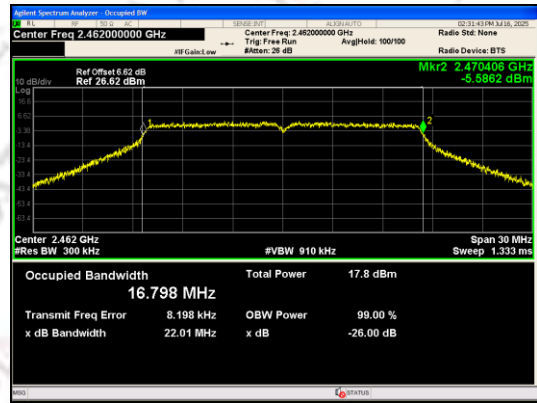
IEEE 802.11b_Channel 11_20MHz_Antenna 0



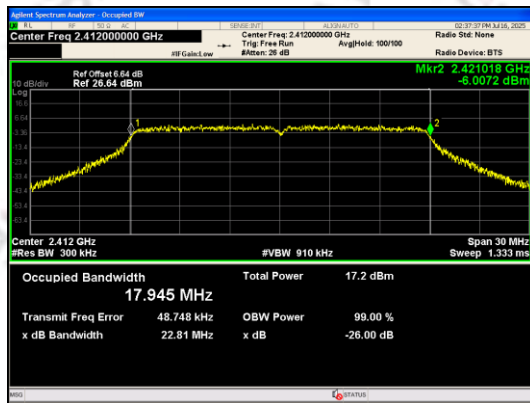
IEEE 802.11g_Channel 1_20MHz_Antenna 0



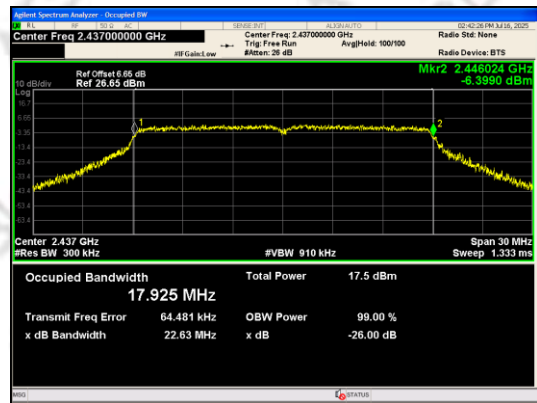
IEEE 802.11g_Channel 6_20MHz_Antenna 0



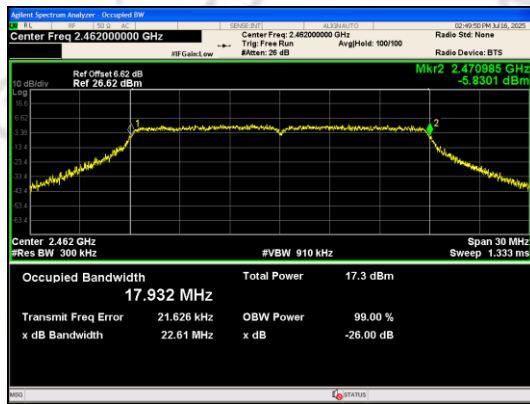
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



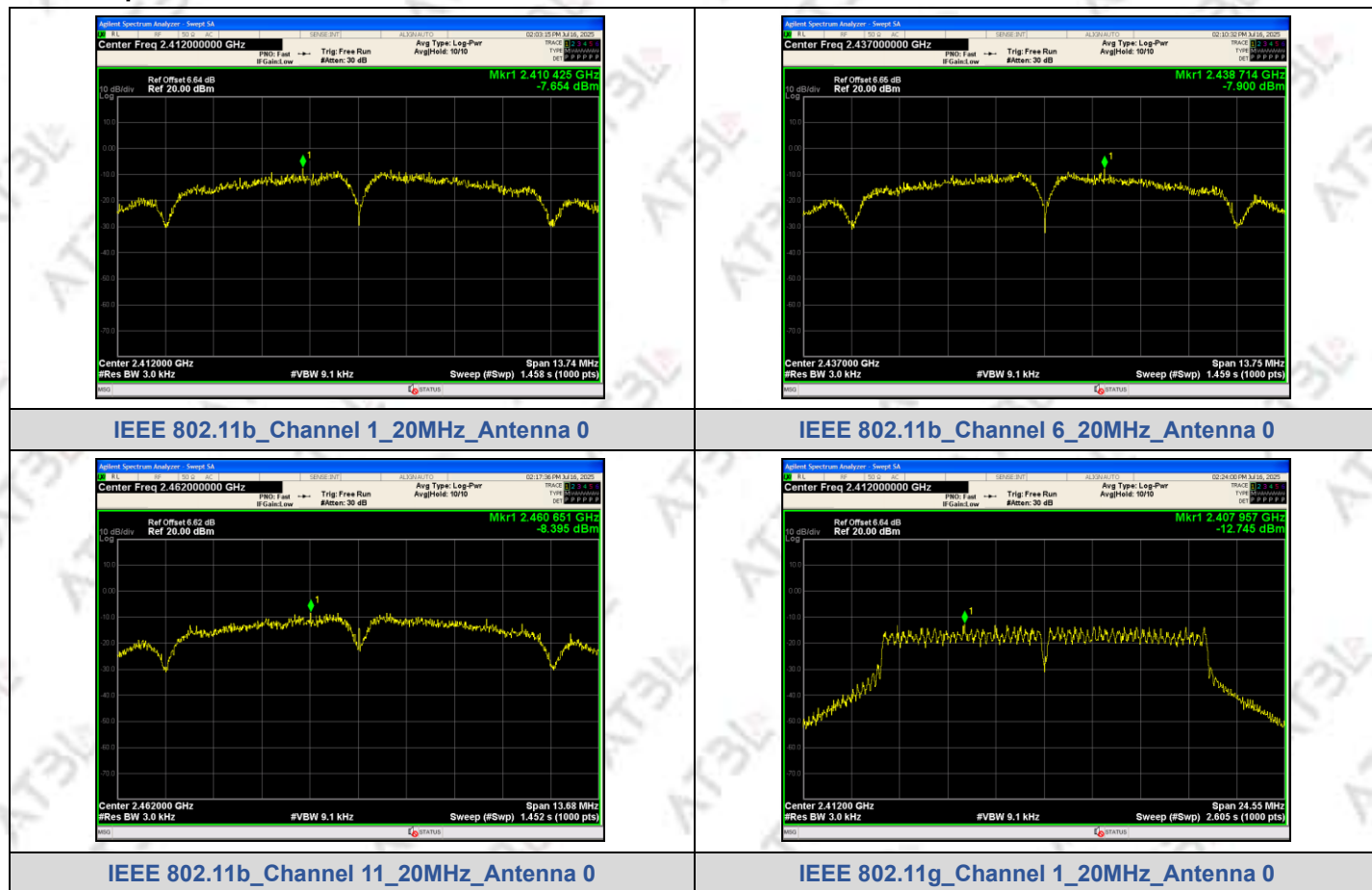
IEEE 802.11n_Channel 11_20MHz_Antenna 0

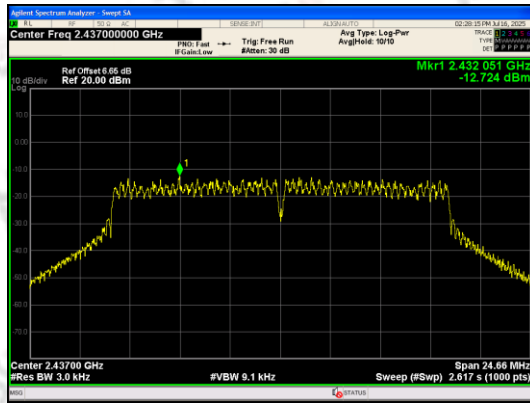
Power Spectral Density

Test Result

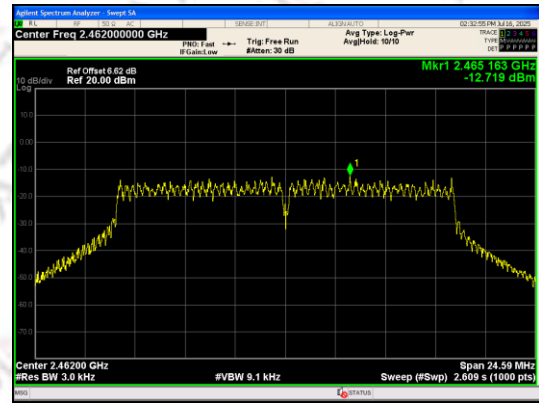
Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-7.650	≤8	PASS
	6	-7.900		PASS
	11	-8.390		PASS
IEEE 802.11g	1	-12.740		PASS
	6	-12.720		PASS
	11	-12.720		PASS
IEEE 802.11n_20	1	-12.780		PASS
	6	-13.240		PASS
	11	-13.210		PASS

Test Graphs

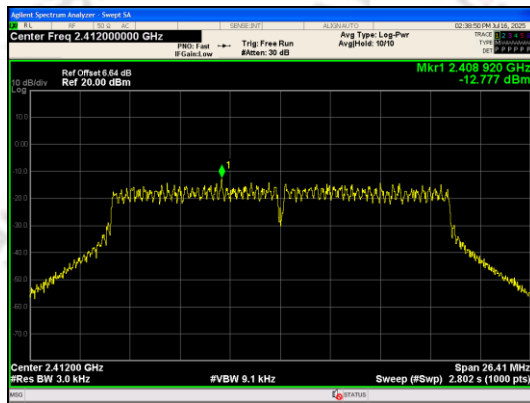




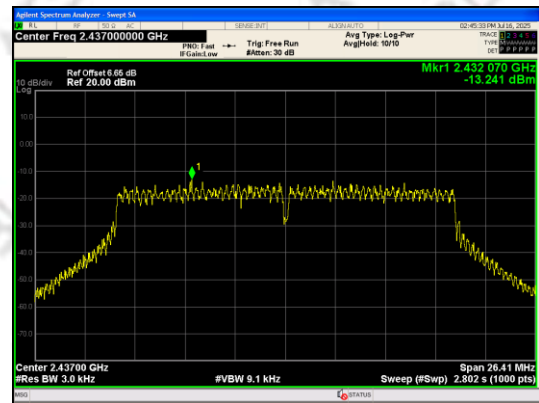
IEEE 802.11g_Channel 6_20MHz_Antenna 0



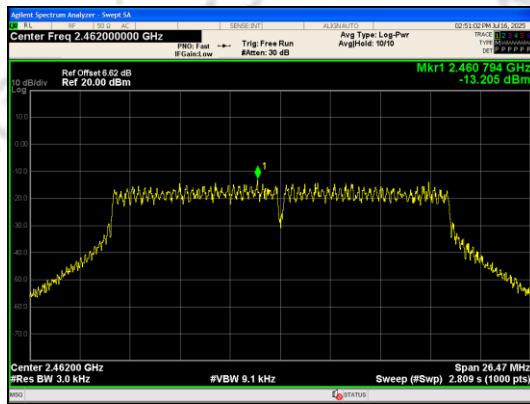
IEEE 802.11g_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 1_20MHz_Antenna 0



IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

Conducted Out Of Band Emission

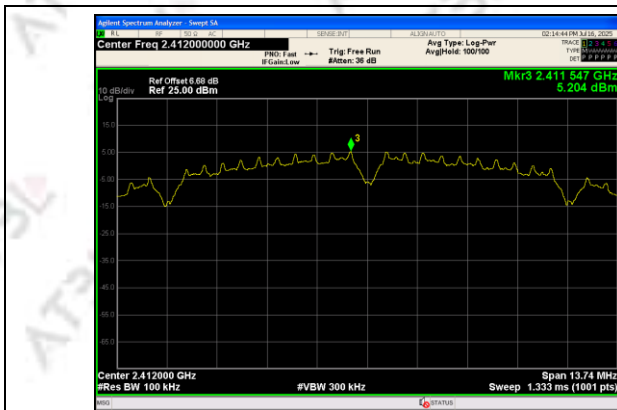
Note:The maximum loss of the test system for testing at 30MHz-26.5GHz is 17.2dB. The offset on the test chart is the offset of the main frequency, and the margin is sufficient to offset the difference between the maximum loss of the system and the offset of the main frequency.

Test Result

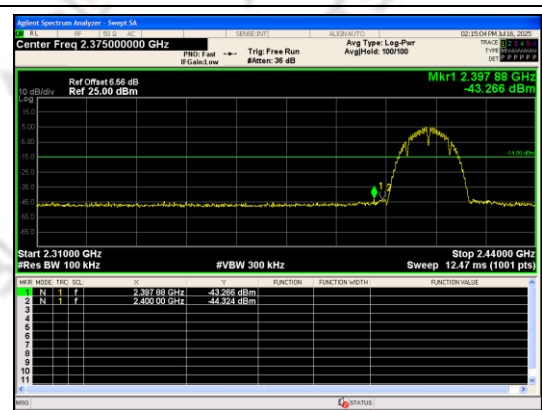
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2397.88	-43.267	-14.8	-28.466	PASS
			2400.00	-44.320	-14.8	-29.520	PASS
			4843.60	-55.882	-14.8	-41.082	PASS
			7248.80	-54.893	-14.8	-40.093	PASS
			9641.60	-55.401	-14.8	-40.601	PASS
			24513.1	-44.779	-14.8	-29.979	PASS
	6		4862.32	-56.163	-14.46	-41.703	PASS
			7296.27	-54.612	-14.46	-40.152	PASS
			9758.31	-56.851	-14.46	-42.391	PASS
			24852.7	-44.263	-14.46	-29.803	PASS
	11		2483.50	-45.500	-14.68	-30.820	PASS
			4908.51	-55.027	-14.68	-40.347	PASS
			7398.65	-56.651	-14.68	-41.971	PASS
			9845.71	-56.788	-14.68	-42.108	PASS
			24692.2	-43.431	-14.68	-28.751	PASS
IEEE 802.11g	1		2400.00	-34.230	-19.33	-14.900	PASS
			4824.24	-55.058	-19.33	-35.728	PASS
			7224.48	-54.890	-19.33	-35.560	PASS
			9650.32	-55.308	-19.33	-35.978	PASS
			24995.0	-44.173	-19.33	-24.843	PASS
	6		4891.66	-56.087	-18.64	-37.447	PASS
			7291.90	-55.586	-18.64	-36.946	PASS
			9757.69	-56.047	-18.64	-37.407	PASS
			24683.5	-43.466	-18.64	-24.826	PASS
	11		2483.50	-46.190	-18.8	-27.390	PASS
			4910.39	-54.540	-18.8	-35.740	PASS
			7403.64	-55.683	-18.8	-36.883	PASS
			9864.43	-57.080	-18.8	-38.280	PASS
			24598.0	-44.112	-18.8	-25.312	PASS
IEEE 802.11n_20	1		2400.00	-34.510	-19.71	-14.800	PASS
			4836.10	-55.365	-19.71	-35.655	PASS
			7225.73	-55.755	-19.71	-36.045	PASS
			9642.83	-55.577	-19.71	-35.867	PASS
			24652.3	-43.987	-19.71	-24.277	PASS
	6		4892.91	-56.242	-19.54	-36.702	PASS

11	7316.25	-55.307	-19.54	-35.767	PASS
	9738.96	-57.098	-19.54	-37.558	PASS
	24815.2	-44.846	-19.54	-25.306	PASS
	2483.50	-45.670	-20.05	-25.620	PASS
	4940.35	-55.592	-20.05	-35.542	PASS
	7382.42	-56.668	-20.05	-36.618	PASS
	9847.58	-56.569	-20.05	-36.519	PASS
	24687.9	-42.639	-20.05	-22.588	PASS

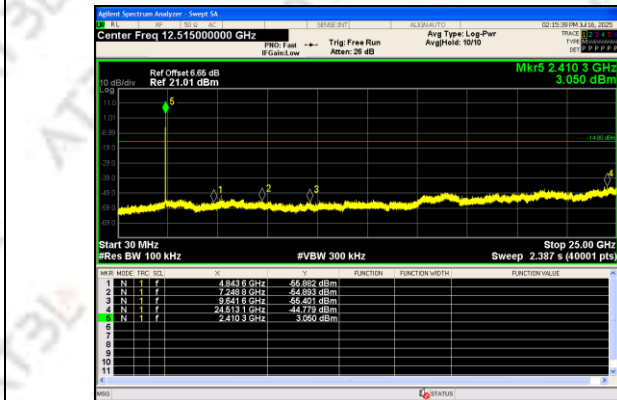
Test Graphs



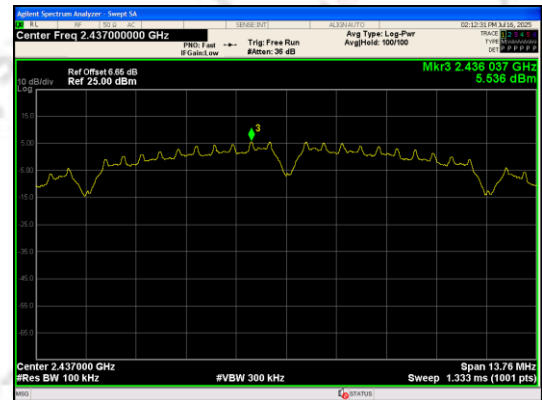
In-Band Reference Level
IEEE 802.11b_Channel 1_20MHz_Antenna 0



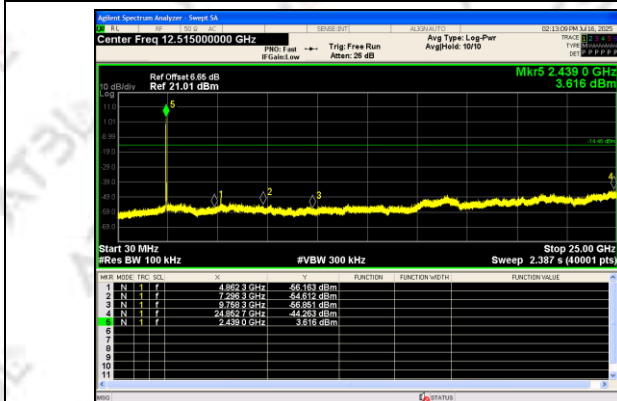
Out Of Band Emission
IEEE 802.11b_Channel 1_20MHz_Antenna 0



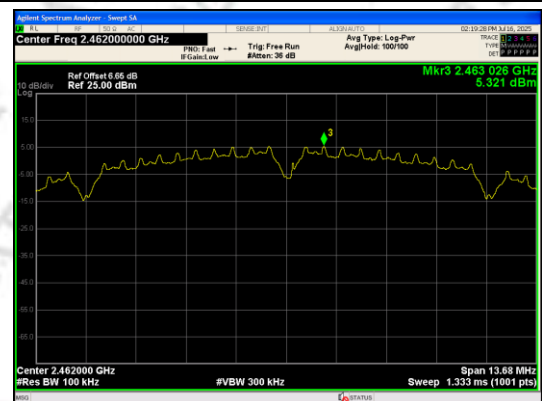
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 1_20MHz_Antenna 0



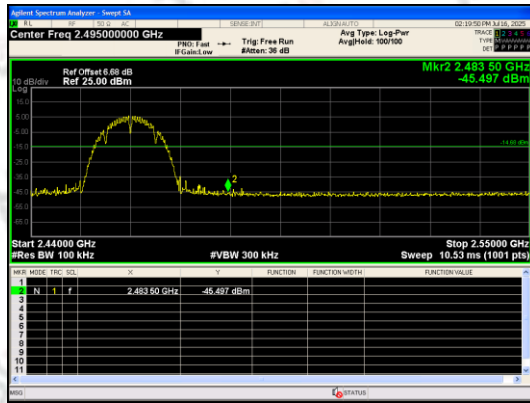
In-Band Reference Level
IEEE 802.11b_Channel 6_20MHz_Antenna 0



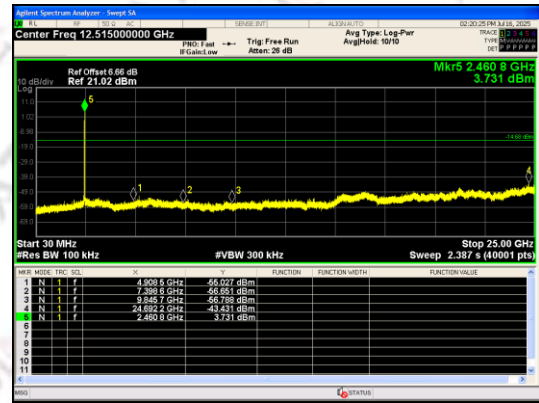
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 6_20MHz_Antenna 0



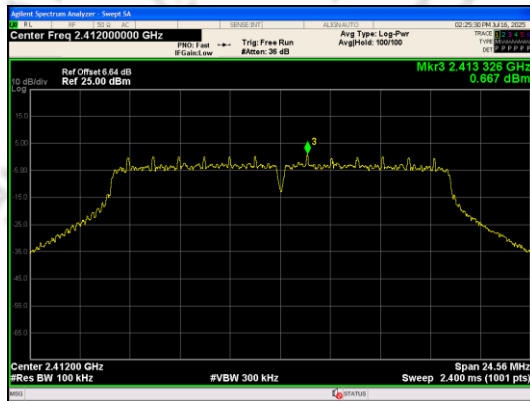
In-Band Reference Level
IEEE 802.11b_Channel 11_20MHz_Antenna 0



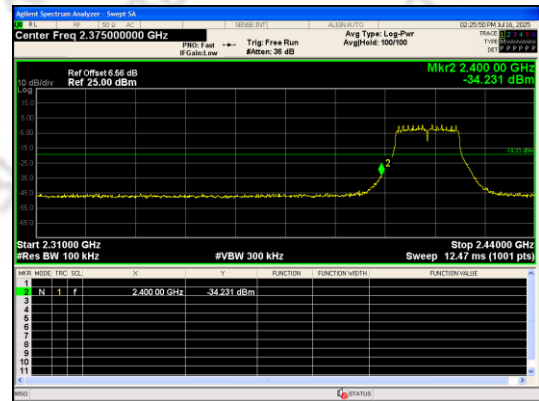
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



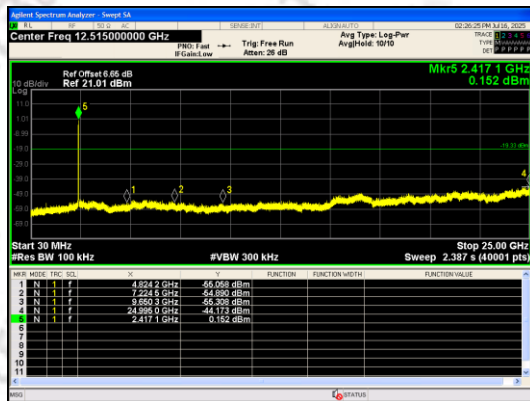
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



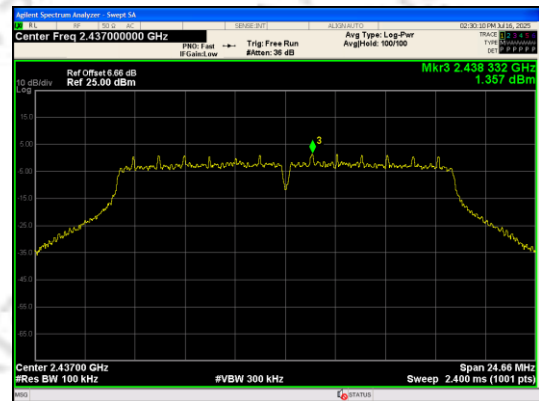
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



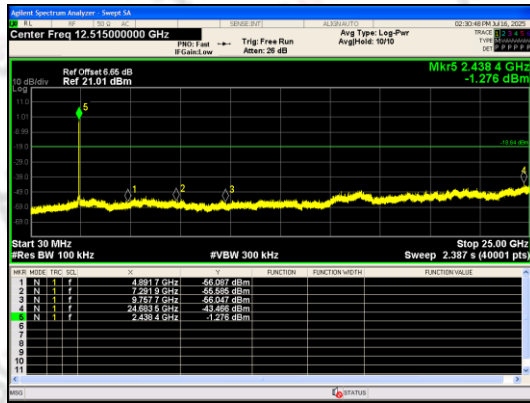
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



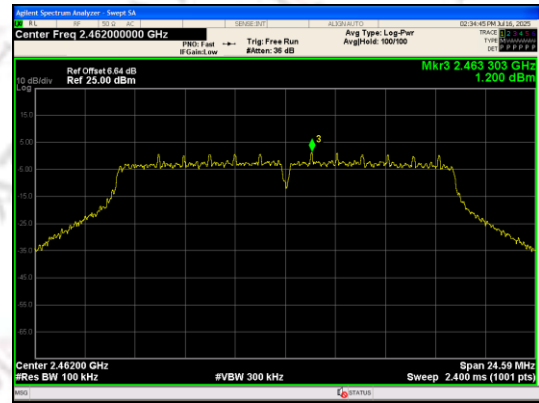
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



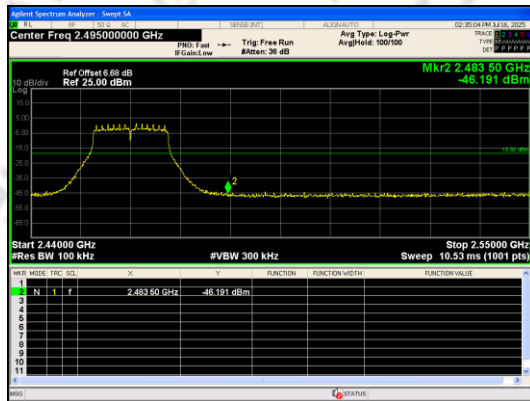
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0



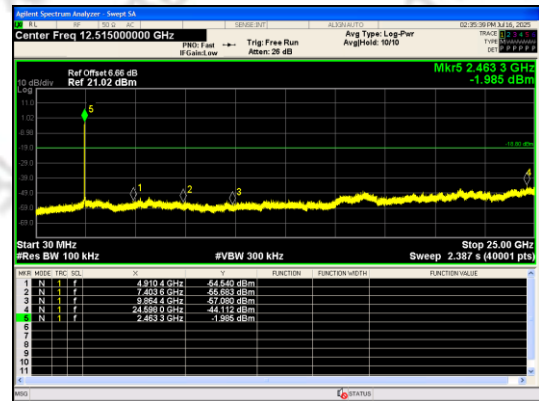
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 6_20MHz_Antenna 0



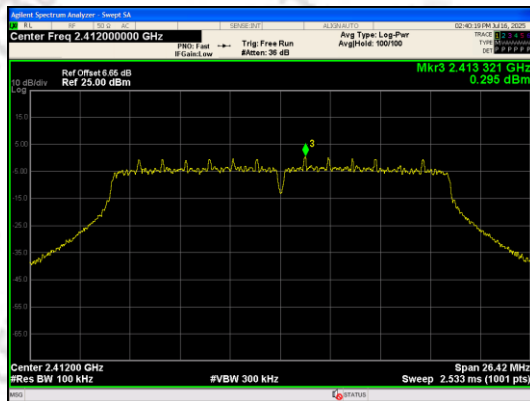
In-Band Reference Level
IEEE 802.11g_Channel 11_20MHz_Antenna 0



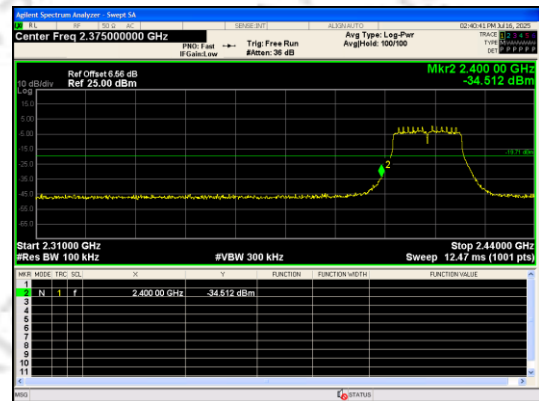
Out Of Band Emission
IEEE 802.11g_Channel 11_20MHz_Antenna 0



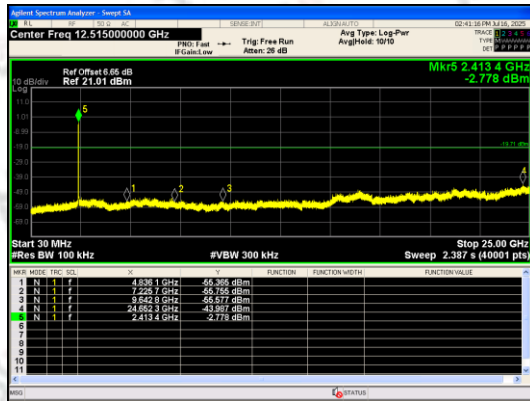
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 11_20MHz_Antenna 0



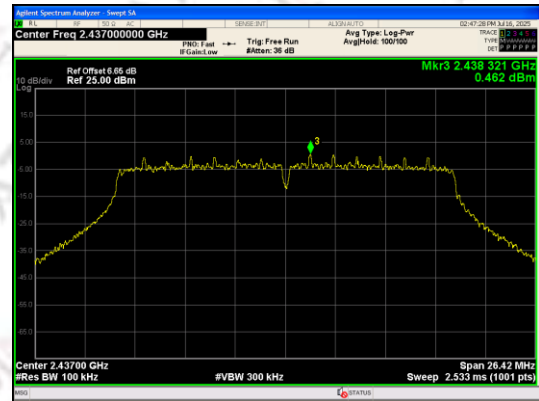
In-Band Reference Level
IEEE 802.11n_Channel 1_20MHz_Antenna 0



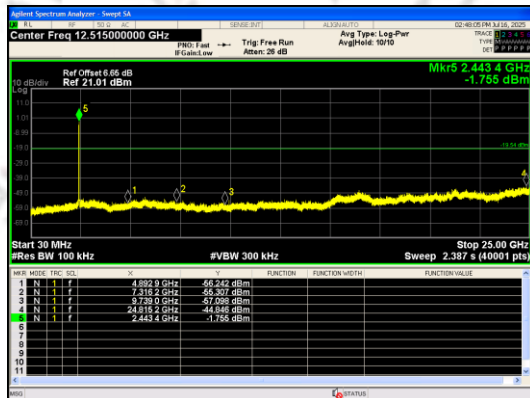
Out Of Band Emission
IEEE 802.11n_Channel 1_20MHz_Antenna 0



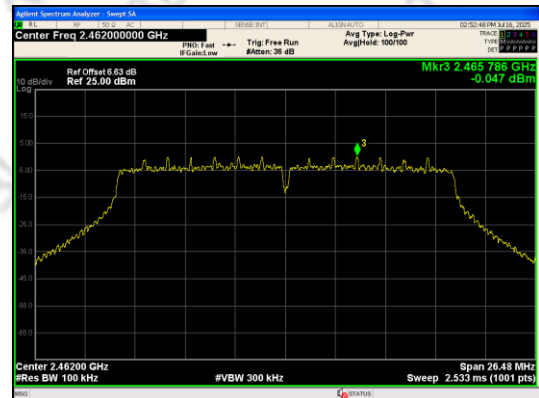
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 1_20MHz_Antenna 0



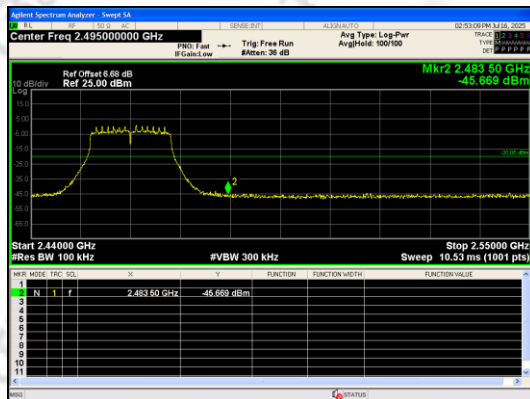
In-Band Reference Level
IEEE 802.11n_Channel 6_20MHz_Antenna 0



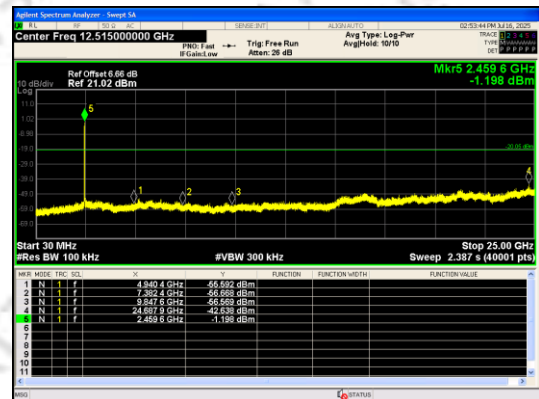
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0

Radiated Test Data

Radiated Spurious Emission

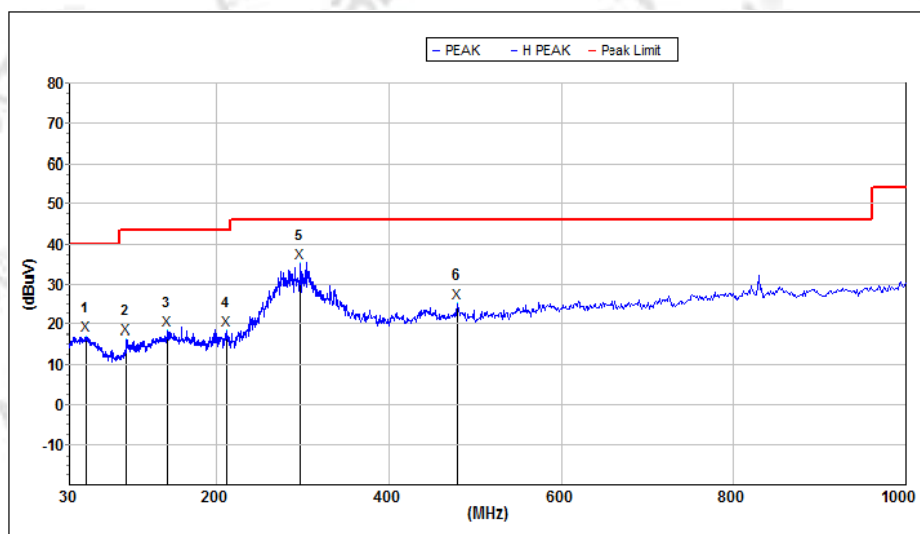
Radiated Emission (9KHz-30MHz)

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

Radiated Emission (30MHz-1GHz)

Note:All modes have been tested, only worst case mode(802.11g) was recorded in the test report.

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Horizontal
Test Mode:	802.11g-2412 MHz	Comment:	30MHz-1GHz



Test Summary Result

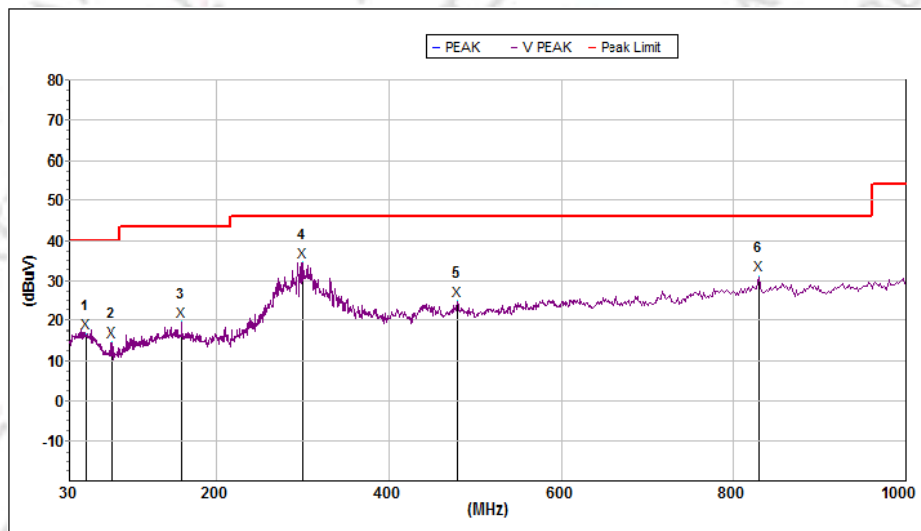
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	48.843	17.2	40.0	22.8	19.5	31.0	H
2	95.427	16.4	43.5	27.1	14.8	31.1	H
3	143.326	18.5	43.5	25.0	18.6	31.2	H
4	210.786	18.6	43.5	24.9	16.1	31.9	H
5	296.703	35.1	46.0	10.9	19.1	32.3	H
6	479.686	25.3	46.0	20.7	23.2	31.8	H

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Vertical
Test Mode:	802.11g-2412 MHz	Comment:	30MHz-1GHz



Test Summary Result

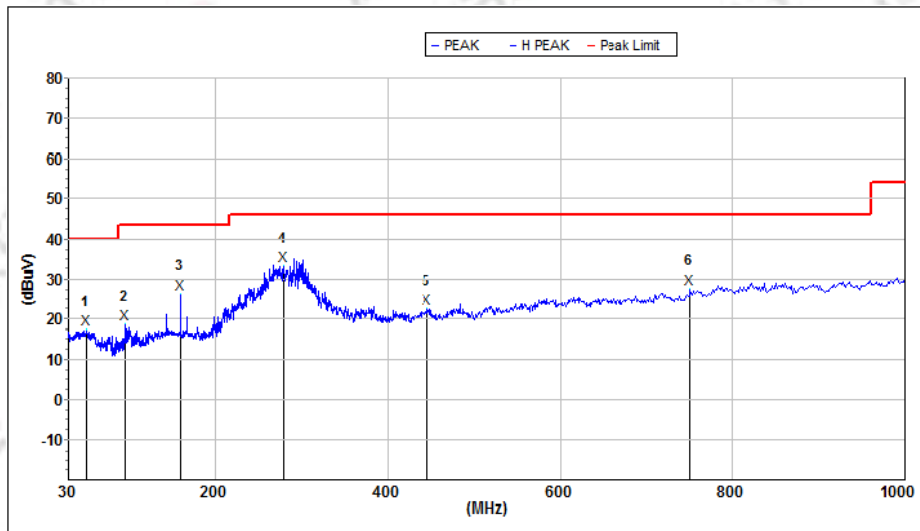
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	49.100	16.8	40.0	23.2	19.5	31.0	V
2	78.002	15.0	40.0	25.0	15.1	32.3	V
3	159.784	19.7	43.5	23.8	18.5	31.4	V
4	299.316	34.7	46.0	11.3	19.2	32.3	V
5	479.686	25.1	46.0	20.9	23.2	31.8	V
6	828.946	31.4	46.0	14.6	28.6	32.1	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Horizontal
Test Mode:	802.11g-2462 MHz	Comment:	30MHz-1GHz



Test Summary Result

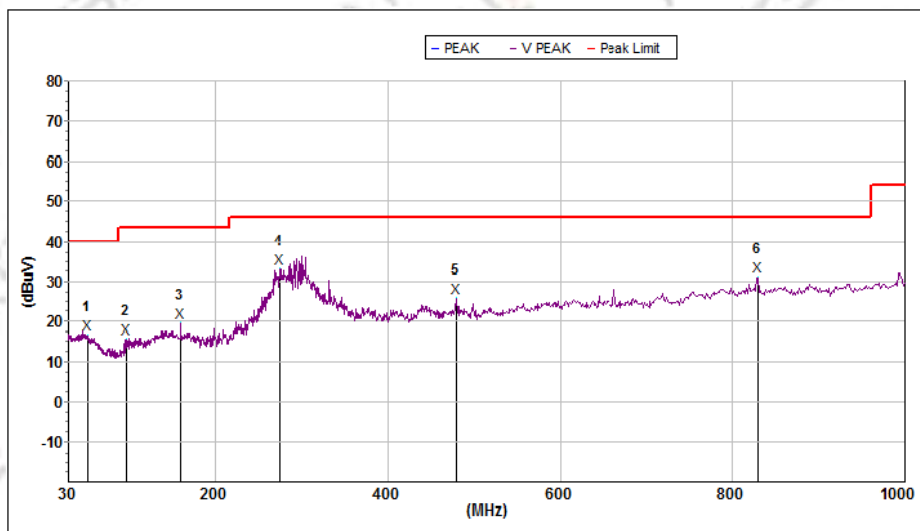
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	50.321	17.5	40.0	22.5	19.5	30.9	H
2	95.427	18.9	43.5	24.6	14.8	31.1	H
3	159.784	26.5	43.5	17.0	18.5	31.4	H
4	278.555	33.3	46.0	12.7	18.5	32.2	H
5	446.414	22.7	46.0	23.3	22.8	32.4	H
6	750.108	27.8	46.0	18.2	27.6	32.0	H

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Vertical
Test Mode:	802.11g-2462 MHz	Comment:	30MHz-1GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	51.752	16.9	40.0	23.1	19.3	31.0	V
2	95.930	15.9	43.5	27.6	14.8	31.1	V
3	159.784	19.9	43.5	23.6	18.5	31.4	V
4	274.194	33.4	46.0	12.6	18.4	32.2	V
5	479.686	26.0	46.0	20.0	23.2	31.8	V
6	828.946	31.3	46.0	14.7	28.6	32.1	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

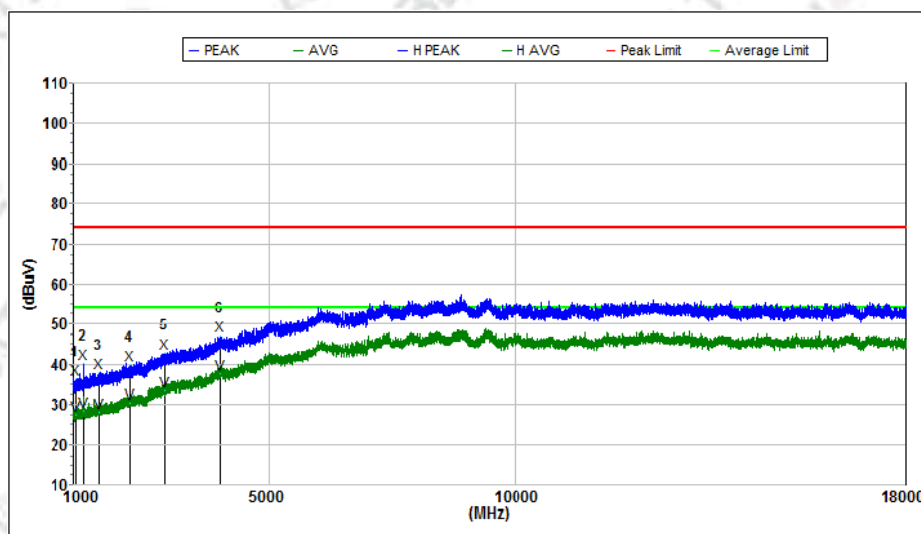
2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Radiated Emission (Above 1GHz)

Note:

- 1.All modes have been tested, only worst case mode(802.11g) was recorded in the test report.
- 2.We used the filter to test and the main frequency was filtered out.
- 3.Other 18G-25G Emission detected are more than 20dB below the limit.

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Horizontal
Test Mode:	802.11g-2412 MHz	Comment:	1GHz-18GHz



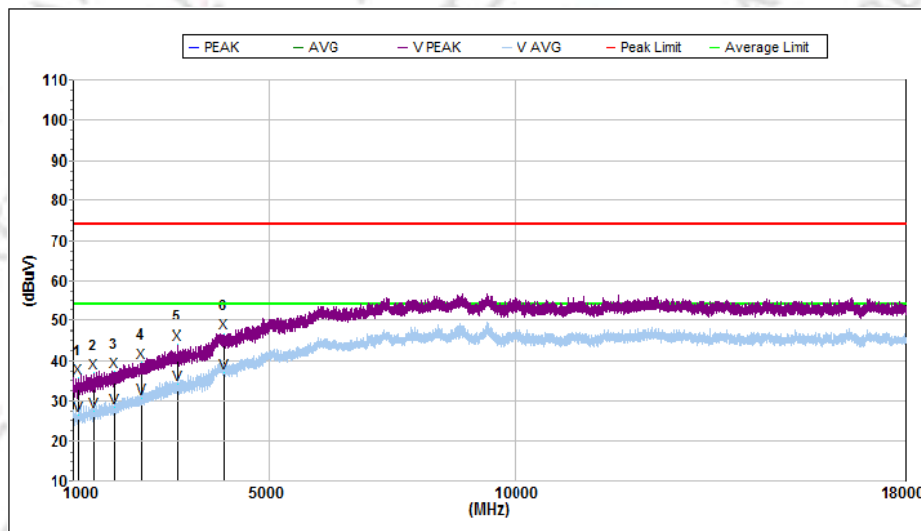
Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1046.800	36.3	74.0	37.7	25.1	53.7	H
2	1213.000	40.3	74.0	33.7	25.7	53.6	H
3	1518.100	37.8	74.0	36.2	25.4	53.4	H
4	2134.300	39.9	74.0	34.1	26.8	54.0	H
5	2881.300	42.9	74.0	31.1	29.0	54.1	H
6	3991.300	47.3	74.0	26.7	30.9	53.2	H
Avg:							
1	1046.800	27.4	54.0	26.6	25.1	53.7	H
2	1213.000	28.3	54.0	25.7	25.7	53.6	H
3	1518.100	28.2	54.0	25.8	25.4	53.4	H
4	2134.300	30.5	54.0	23.5	26.8	54.0	H
5	2881.300	33.5	54.0	20.5	29.0	54.1	H
6	3991.300	37.6	54.0	16.4	30.9	53.2	H

Note:

- 1.Margin = Result (Result =Reading + Factor)-Limit
- 2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Vertical
Test Mode:	802.11g-2412 MHz	Comment:	1GHz-18GHz



Test Summary Result

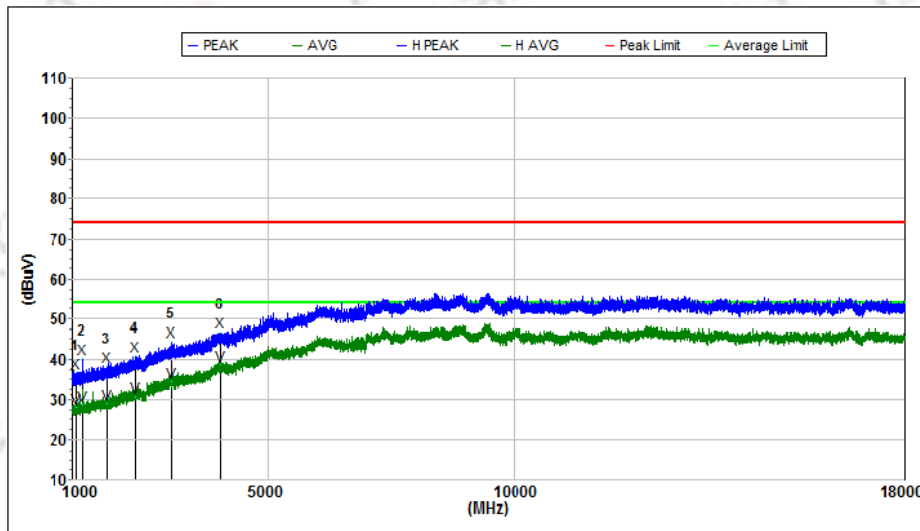
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1110.400	35.5	74.0	38.5	25.3	53.6	V
2	1414.600	36.9	74.0	37.1	25.5	53.5	V
3	1824.400	37.4	74.0	36.6	25.3	53.7	V
4	2375.800	39.7	74.0	34.3	27.3	54.1	V
5	3134.200	44.2	74.0	29.8	29.4	54.0	V
6	4057.900	46.8	74.0	27.2	31.0	53.2	V
Avg:							
1	1110.400	26.3	54.0	27.7	25.3	53.6	V
2	1414.600	27.5	54.0	26.5	25.5	53.5	V
3	1824.400	28.3	54.0	25.7	25.3	53.7	V
4	2375.800	30.6	54.0	23.4	27.3	54.1	V
5	3134.200	34.0	54.0	20.0	29.4	54.0	V
6	4057.900	37.0	54.0	17.0	31.0	53.2	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Horizontal
Test Mode:	802.11b-2462 MHz	Comment:	1GHz-18GHz



Test Summary Result

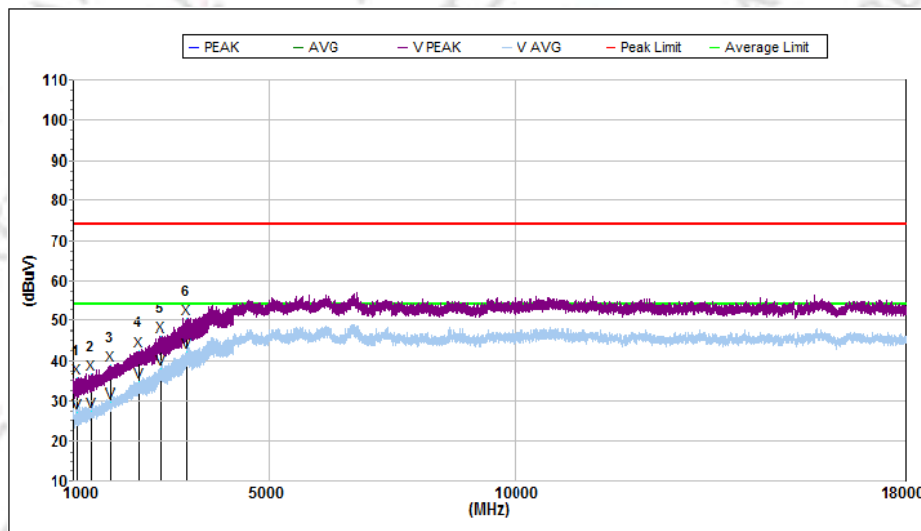
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1074.400	36.7	74.0	37.3	25.2	53.7	H
2	1214.800	40.1	74.0	33.9	25.7	53.6	H
3	1713.400	38.3	74.0	35.7	25.2	53.6	H
4	2280.100	40.9	74.0	33.1	27.1	54.0	H
5	3029.800	44.4	74.0	29.6	29.4	54.1	H
6	4016.200	47.0	74.0	27.0	30.9	53.2	H
Avg:							
1	1074.400	28.1	54.0	25.9	25.2	53.7	H
2	1214.800	28.9	54.0	25.1	25.7	53.6	H
3	1713.400	29.1	54.0	24.9	25.2	53.6	H
4	2280.100	30.6	54.0	23.4	27.1	54.0	H
5	3029.800	34.2	54.0	19.8	29.4	54.1	H
6	4016.200	38.6	54.0	15.4	30.9	53.2	H

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	27°C	Relative Humidity:	42%
Test Voltage:	AC 24V	Phase:	Vertical
Test Mode:	802.11b-2462 MHz	Comment:	1GHz-18GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1088.849	35.6	74.0	38.4	25.2	53.6	V
2	1354.185	36.7	74.0	37.3	25.5	53.5	V
3	1755.376	39.0	74.0	35.0	25.1	53.7	V
4	2323.777	42.6	74.0	31.4	27.2	54.0	V
5	2795.763	46.2	74.0	27.8	28.7	54.1	V
6	3305.787	50.4	74.0	23.6	29.5	53.9	V
Avg:							
1	1088.849	27.1	54.0	26.9	25.2	53.6	V
2	1354.185	27.4	54.0	26.6	25.5	53.5	V
3	1755.376	29.8	54.0	24.2	25.1	53.7	V
4	2323.777	34.6	54.0	19.4	27.2	54.0	V
5	2795.763	37.9	54.0	16.1	28.7	54.1	V
6	3305.787	42.2	54.0	11.8	29.5	53.9	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

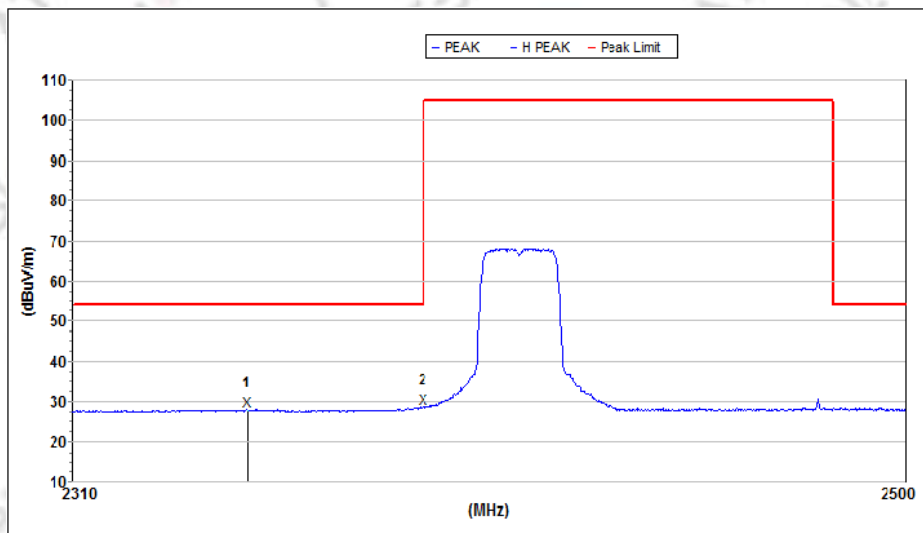
2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Restricted Band

Note: During the test, pre-scan 802.11b, 802.11g, 802.11n20 mode, found 802.11g was worse case mode. The report only reflects the test data of worst mode.

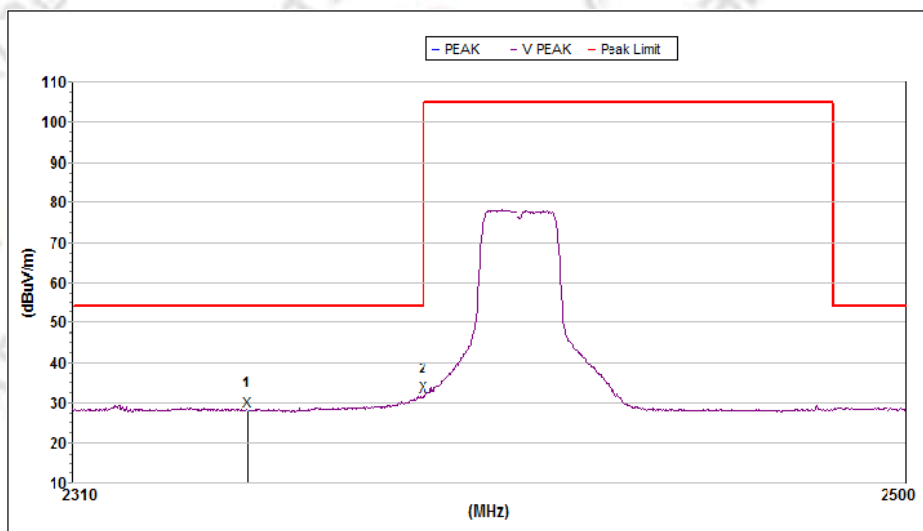
Test Mode: 802.11g

Test Channel: Lowest channel, Test Polarization: Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG							
1	2350.000	27.7	54.0	26.3	27.3	54.0	H
2	2390.000	28.5	54.0	25.5	27.4	54.1	H

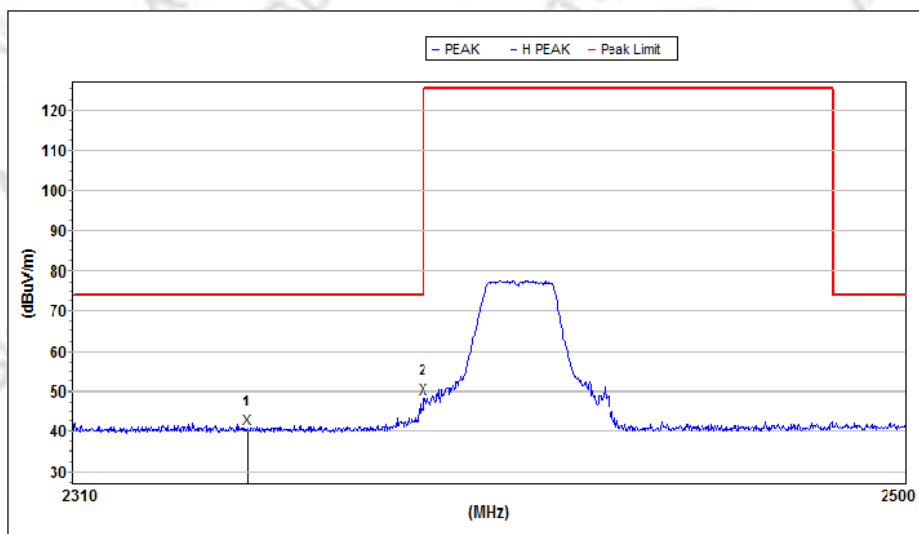
Test Channel: Lowest channel, Test Polarization: Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG							
1	2350.000	28.2	54.0	25.8	27.3	54.0	V
2	2390.000	31.7	54.0	22.3	27.4	54.1	V

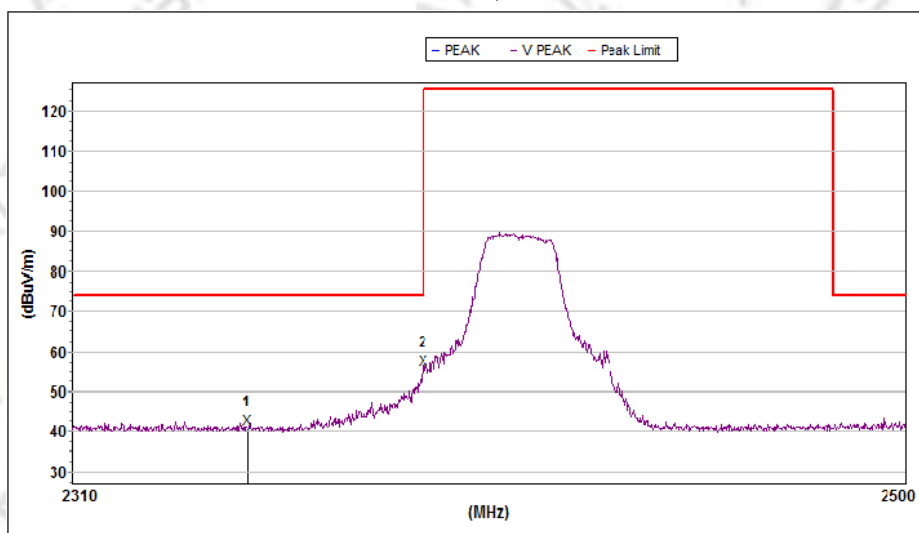
Test Mode: 802.11g

Test Channel: Lowest channel, Test Polarization: Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
PEAK							
1	2350.000	40.9	74.0	33.1	27.3	54.0	H
2	2390.000	48.5	74.0	25.5	27.4	54.1	H

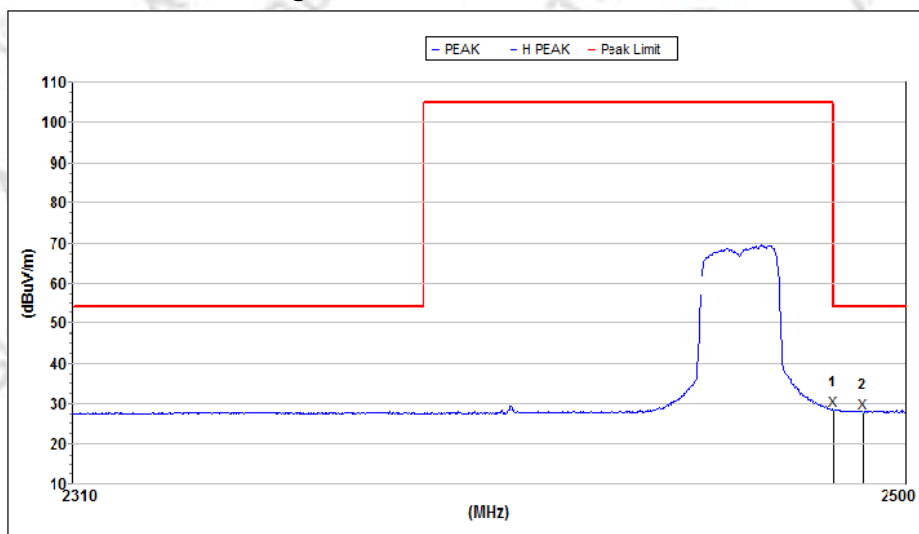
Test Channel: Lowest channel, Test Polarization: Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
PEAK							
1	2350.000	40.8	74.0	33.2	27.3	54.0	V
2	2390.000	55.7	74.0	18.3	27.4	54.1	V

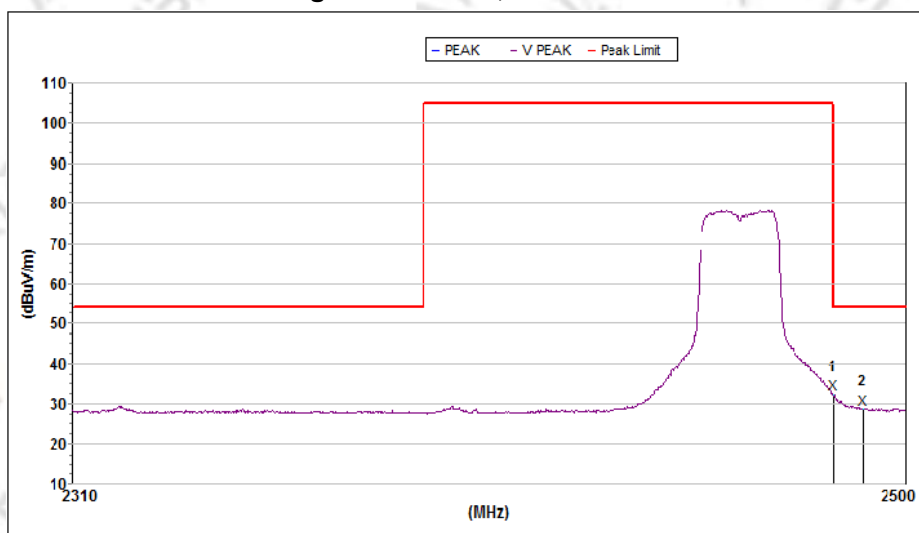
Test Mode: 802.11g

Test Channel: Highest channel, Test Polarization: Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG							
1	2483.500	28.5	54.0	25.5	27.6	54.1	H
2	2490.000	27.9	54.0	26.1	27.6	54.1	H

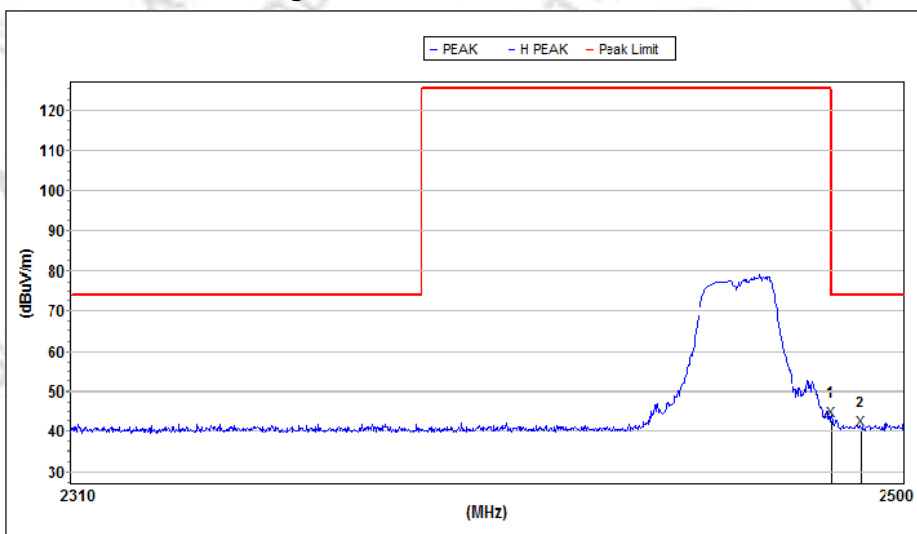
Test Channel: Highest channel, Test Polarization: Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
AVG							
1	2483.500	32.3	54.0	21.7	27.6	54.1	V
2	2490.000	28.8	54.0	25.2	27.6	54.1	V

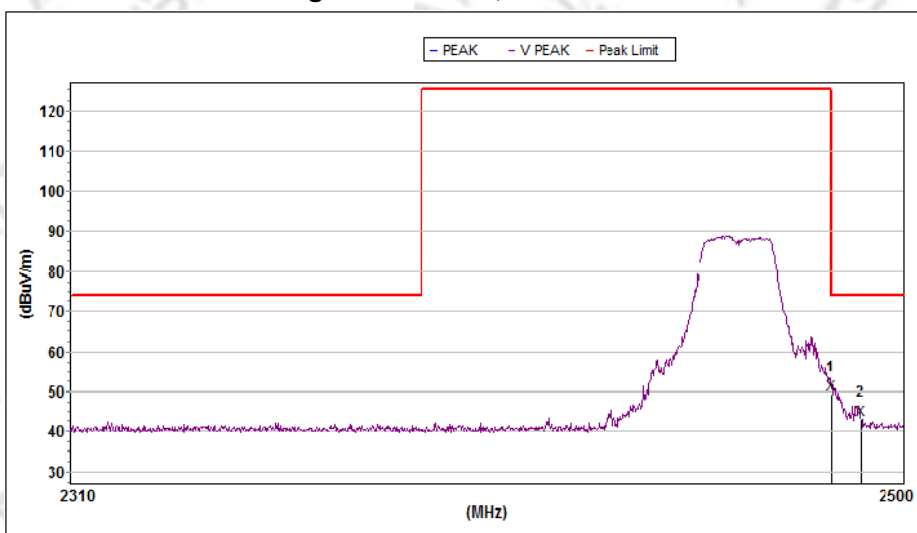
Test Mode: 802.11g

Test Channel: Highest channel, Test Polarization: Horizontal



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
PEAK							
1	2483.500	42.8	74.0	31.2	27.6	54.1	H
2	2490.000	40.4	74.0	33.6	27.6	54.1	H

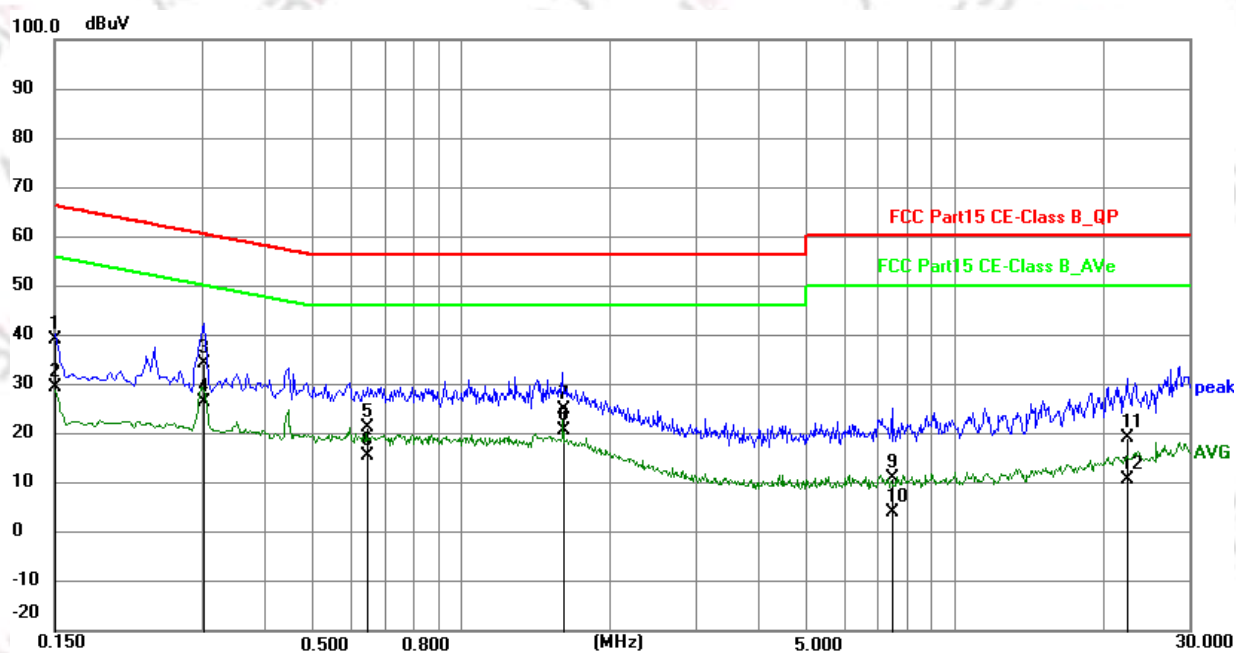
Test Channel: Highest channel, Test Polarization: Vertical



Mk.	Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB/m)	Amp.G. (dB)	Pol.
PEAK							
1	2483.500	49.5	74.0	24.5	27.6	54.1	V
2	2490.000	43.0	74.0	31.0	27.6	54.1	V

AC Power-Line Conducted Emission Test Data

Temperature:	23.1°C	Relative Humidity:	37%
Phase:	L	Test Mode:	Mode1
Test Voltage:	AC 24V	Test Date:	2025.08.25

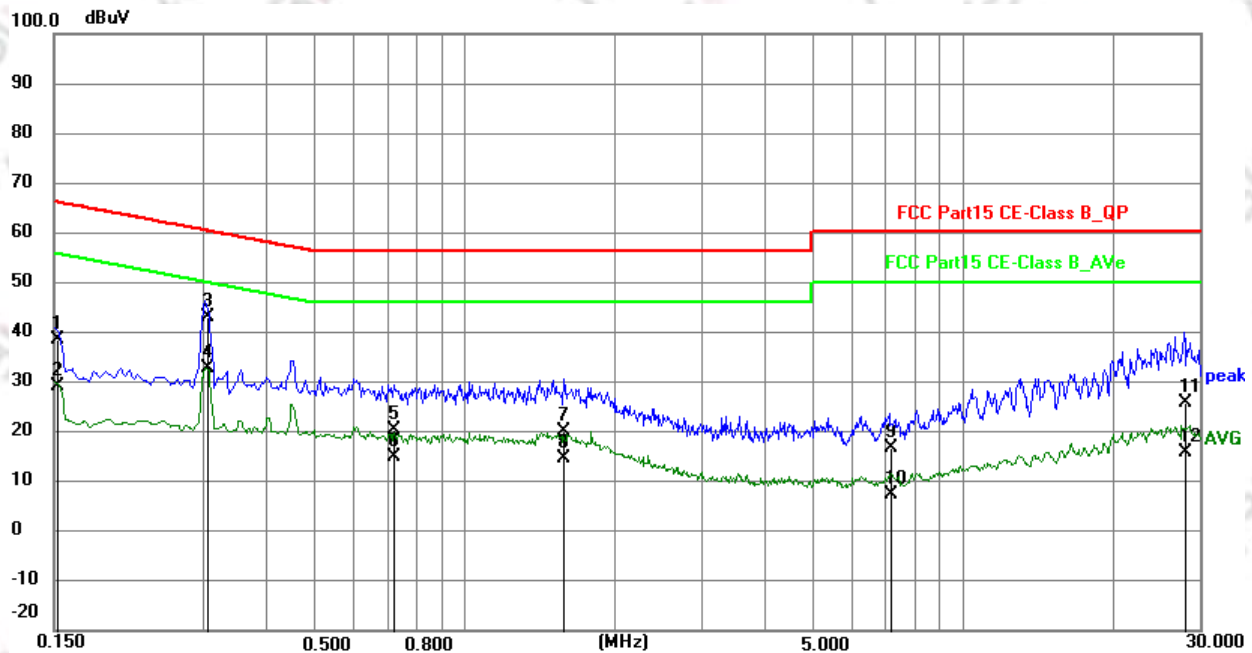


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	28.40	10.66	39.06	66.00	-26.94	QP
2	0.1500	18.85	10.66	29.51	56.00	-26.49	AVG
3	0.3010	23.63	10.52	34.15	60.22	-26.07	QP
4	0.3010	15.86	10.52	26.38	50.22	-23.84	AVG
5	0.6470	10.94	10.40	21.34	56.00	-34.66	QP
6	0.6470	5.08	10.40	15.48	46.00	-30.52	AVG
7	1.6110	14.34	10.45	24.79	56.00	-31.21	QP
8	1.6110	10.33	10.45	20.78	46.00	-25.22	AVG
9	7.4810	0.34	10.71	11.05	60.00	-48.95	QP
10	7.4810	-6.56	10.71	4.15	50.00	-45.85	AVG
11	22.4570	5.11	14.06	19.17	60.00	-40.83	QP
12	22.4570	-3.50	14.06	10.56	50.00	-39.44	AVG

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Cable Loss +Antenna Factor–Amplifier Gain

Temperature:	23.1°C	Relative Humidity:	37%
Phase:	N	Test Mode:	Mode1
Test Voltage:	AC 24V	Test Date:	2025.08.25



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1520	27.89	10.64	38.53	65.89	-27.36	QP
2	0.1520	18.36	10.64	29.00	55.89	-26.89	AVG
3	0.3050	32.40	10.51	42.91	60.11	-17.20	QP
4	0.3050	22.15	10.51	32.66	50.11	-17.45	AVG
5	0.7230	10.02	10.39	20.41	56.00	-35.59	QP
6	0.7230	4.64	10.39	15.03	46.00	-30.97	AVG
7	1.5830	9.52	10.45	19.97	56.00	-36.03	QP
8	1.5830	4.13	10.45	14.58	46.00	-31.42	AVG
9	7.1860	5.84	10.77	16.61	60.00	-43.39	QP
10	7.1860	-3.50	10.77	7.27	50.00	-42.73	AVG
11	27.9150	11.00	14.90	25.90	60.00	-34.10	QP
12	27.9150	0.78	14.90	15.68	50.00	-34.32	AVG

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Cable Loss +Antenna Factor–Amplifier Gain

*****END OF THE Appendix A3*****