

Band Edge NVNT ax20 52@40 2462MHz Ant2 Ref



Band Edge NVNT ax20 52@40 2462MHz Ant2 Emission



Band Edge NVNT ax20 106@53 2412MHz Ant1 Ref



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Band Edge NVNT ax20 106@53 2412MHz Ant2 Emission



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**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-2.15	0	-2.15	8	Pass
NVNT	b	2437	Ant1	-2.15	0	-2.15	8	Pass
NVNT	b	2462	Ant1	-2.92	0	-2.92	8	Pass
NVNT	b	2412	Ant2	-1.91	0	-1.91	8	Pass
NVNT	b	2437	Ant2	-1.38	0	-1.38	8	Pass
NVNT	b	2462	Ant2	-1.8	0	-1.8	8	Pass
NVNT	g	2412	Ant1	-7.28	0	-7.28	8	Pass
NVNT	g	2437	Ant1	-7.15	0	-7.15	8	Pass
NVNT	g	2462	Ant1	-7.3	0	-7.3	8	Pass
NVNT	g	2412	Ant2	-6.72	0	-6.72	8	Pass
NVNT	g	2437	Ant2	-6.64	0	-6.64	8	Pass
NVNT	g	2462	Ant2	-7.06	0	-7.06	8	Pass
NVNT	n20	2412	Ant1	-7.51	0	-7.51	8	Pass
NVNT	n20	2437	Ant1	-8.1	0	-8.1	8	Pass
NVNT	n20	2462	Ant1	-8.36	0	-8.36	8	Pass
NVNT	n20	2412	Ant2	-7.89	0	-7.89	8	Pass
NVNT	n20	2437	Ant2	-7.78	0	-7.78	8	Pass
NVNT	n20	2462	Ant2	-7.9	0	-7.9	8	Pass
NVNT	ax20	2412	Ant1	-7.55	0	-7.55	8	Pass
NVNT	ax20	2437	Ant1	-7.93	0	-7.93	8	Pass
NVNT	ax20	2462	Ant1	-8.24	0	-8.24	8	Pass
NVNT	ax20	2412	Ant2	-7.8	0	-7.8	8	Pass
NVNT	ax20	2437	Ant2	-7.97	0	-7.97	8	Pass
NVNT	ax20	2462	Ant2	-7.99	0	-7.99	8	Pass
NVNT	ax20 26@0	2412	Ant1	-1.73	0	-1.73	8	Pass
NVNT	ax20 26@0	2437	Ant1	-1.78	0	-1.78	8	Pass
NVNT	ax20 26@0	2412	Ant2	-1.44	0	-1.44	8	Pass
NVNT	ax20 26@0	2437	Ant2	-1.87	0	-1.87	8	Pass
NVNT	ax20 26@8	2462	Ant1	-1.49	0	-1.49	8	Pass
NVNT	ax20 26@8	2462	Ant2	-1.63	0	-1.63	8	Pass
NVNT	ax20 52@37	2412	Ant1	-3.85	0	-3.85	8	Pass
NVNT	ax20 52@37	2437	Ant1	-4.41	0	-4.41	8	Pass
NVNT	ax20 52@37	2412	Ant2	-3.82	0	-3.82	8	Pass
NVNT	ax20 52@37	2437	Ant2	-3.76	0	-3.76	8	Pass



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NVNT	ax20 52@40	2462	Ant1	-4.41	0	-4.41	8	Pass
NVNT	ax20 52@40	2462	Ant2	-4.39	0	-4.39	8	Pass
NVNT	ax20 106@53	2412	Ant1	-5.6	0	-5.6	8	Pass
NVNT	ax20 106@53	2437	Ant1	-6.27	0	-6.27	8	Pass
NVNT	ax20 106@53	2412	Ant2	-6.14	0	-6.14	8	Pass
NVNT	ax20 106@53	2437	Ant2	-5.71	0	-5.71	8	Pass
NVNT	ax20 106@54	2462	Ant1	-6.99	0	-6.99	8	Pass
NVNT	ax20 106@54	2462	Ant2	-6.97	0	-6.97	8	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



PSD NVNT b 2412MHz Ant2



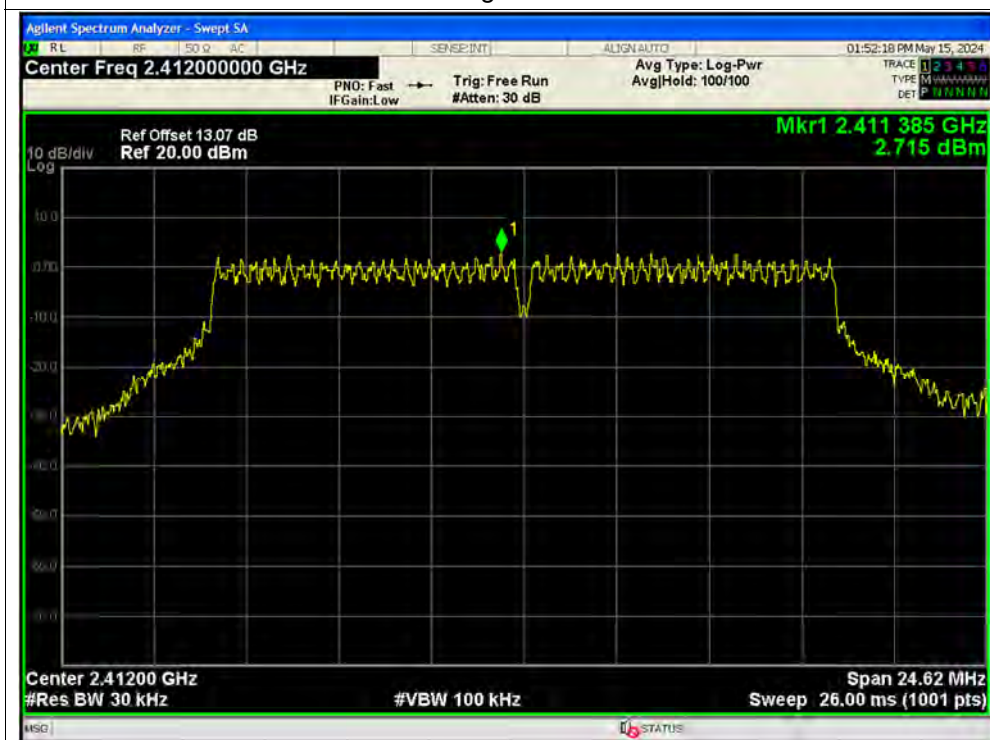
PSD NVNT b 2437MHz Ant2



PSD NVNT b 2462MHz Ant2



PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



PSD NVNT g 2412MHz Ant2





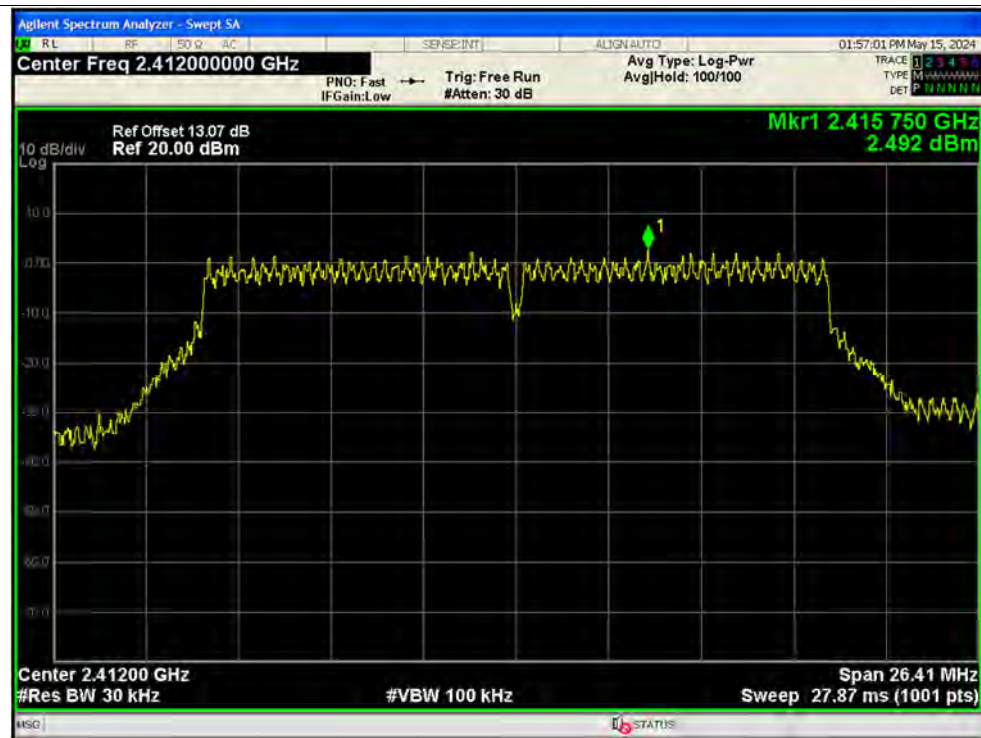
PSD NVNT g 2437MHz Ant2



PSD NVNT g 2462MHz Ant2



PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

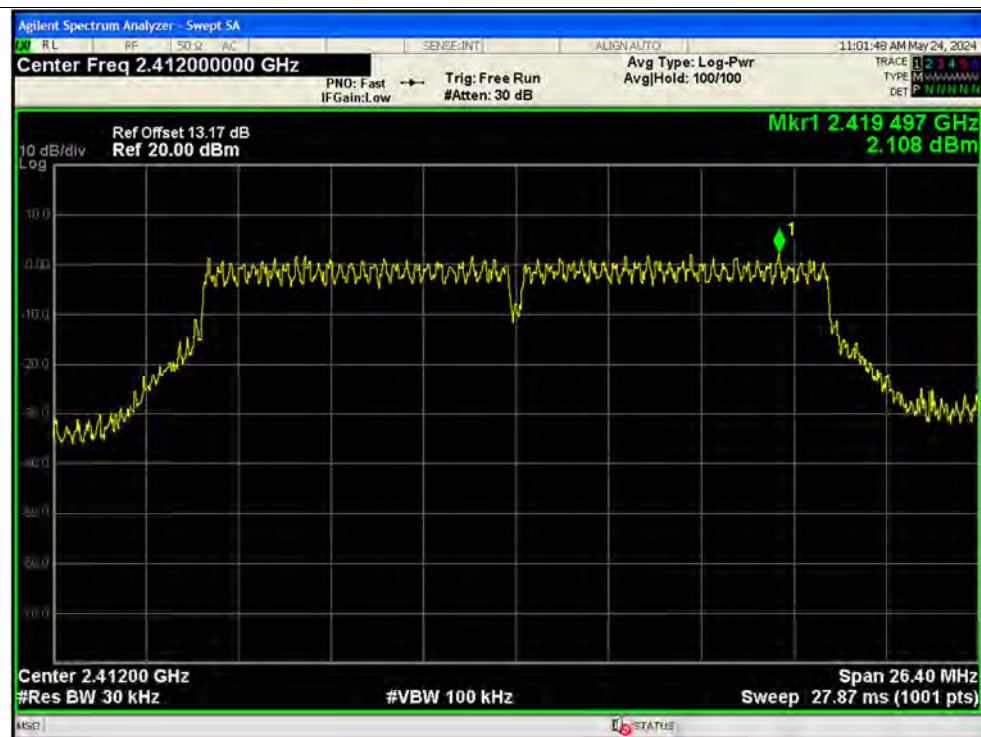




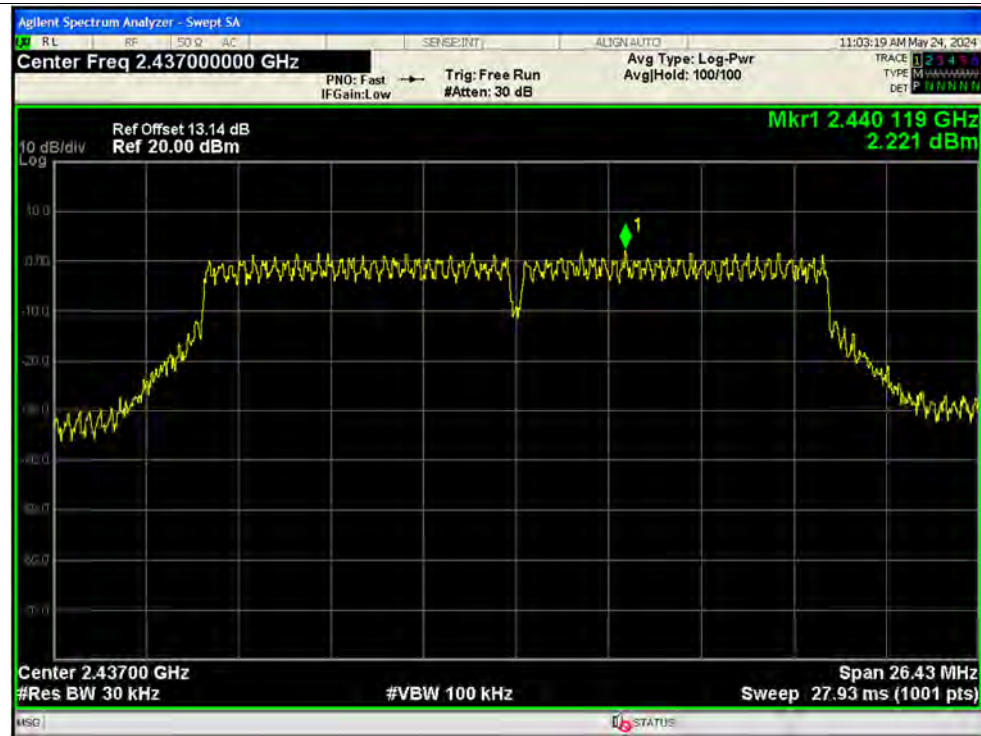
PSD NVNT n20 2462MHz Ant1



PSD NVNT n20 2412MHz Ant2



PSD NVNT n20 2437MHz Ant2



PSD NVNT n20 2462MHz Ant2



PSD NVNT ax20 2412MHz Ant1

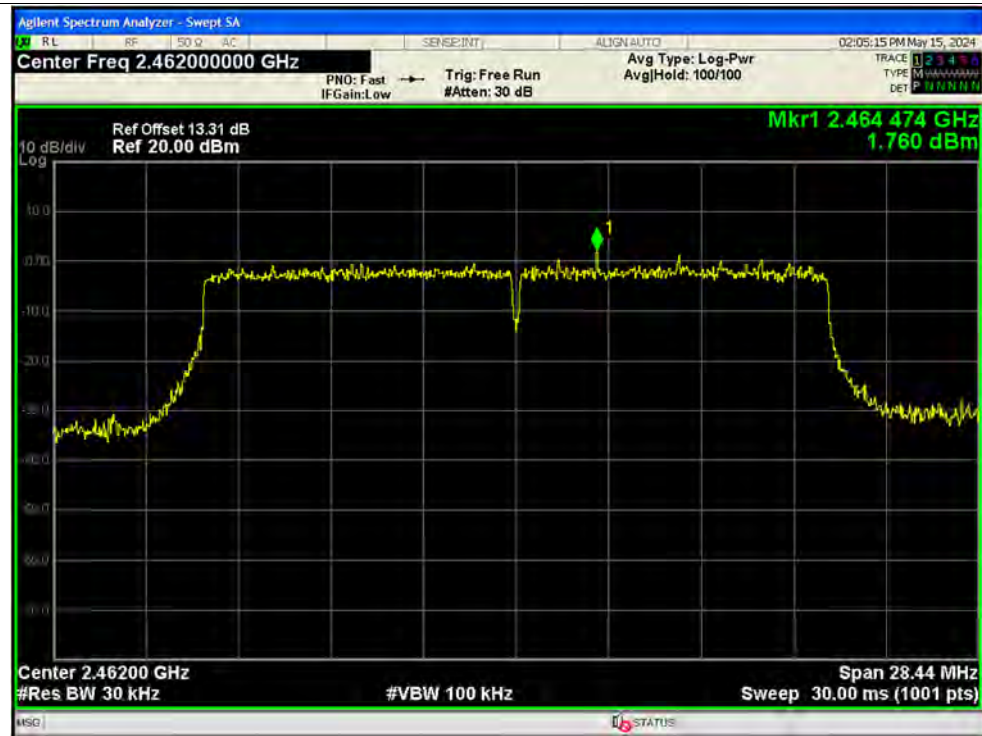


PSD NVNT ax20 2437MHz Ant1





PSD NVNT ax20 2462MHz Ant1



PSD NVNT ax20 2412MHz Ant2



PSD NVNT ax20 2437MHz Ant2



PSD NVNT ax20 2462MHz Ant2





PSD NVNT ax20 26@0 2412MHz Ant1



PSD NVNT ax20 26@0 2437MHz Ant1





PSD NVNT ax20 26@0 2412MHz Ant2



PSD NVNT ax20 26@0 2437MHz Ant2





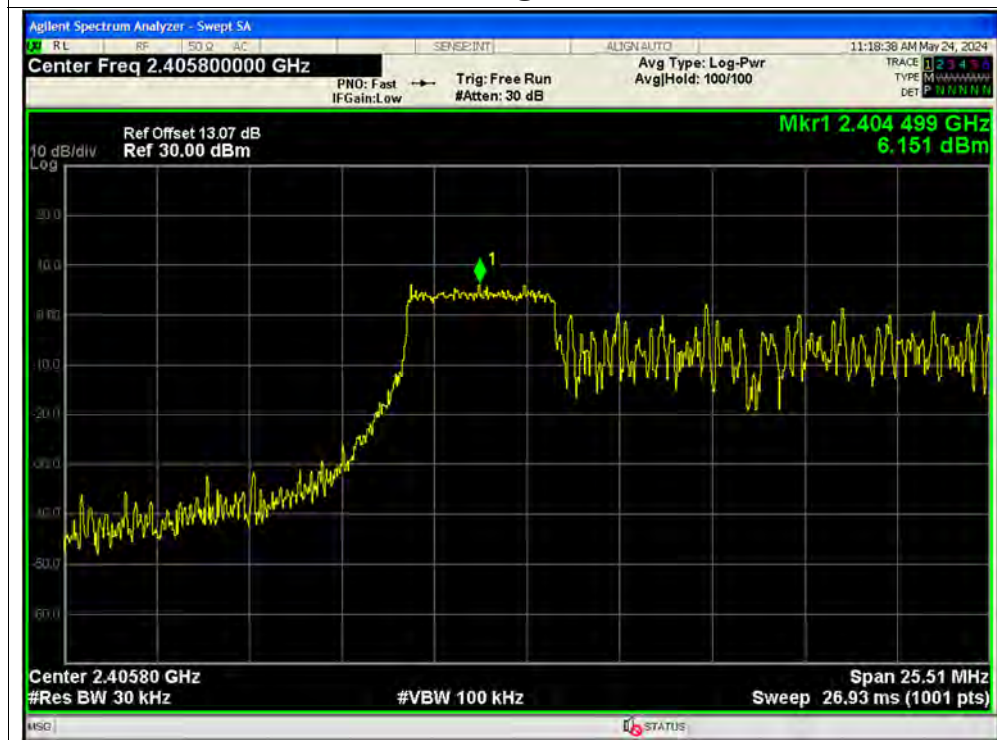
PSD NVNT ax20 26@8 2462MHz Ant1



PSD NVNT ax20 26@8 2462MHz Ant2



PSD NVNT ax20 52@37 2412MHz Ant1



PSD NVNT ax20 52@37 2437MHz Ant1





PSD NVNT ax20 52@37 2412MHz Ant2



PSD NVNT ax20 52@37 2437MHz Ant2





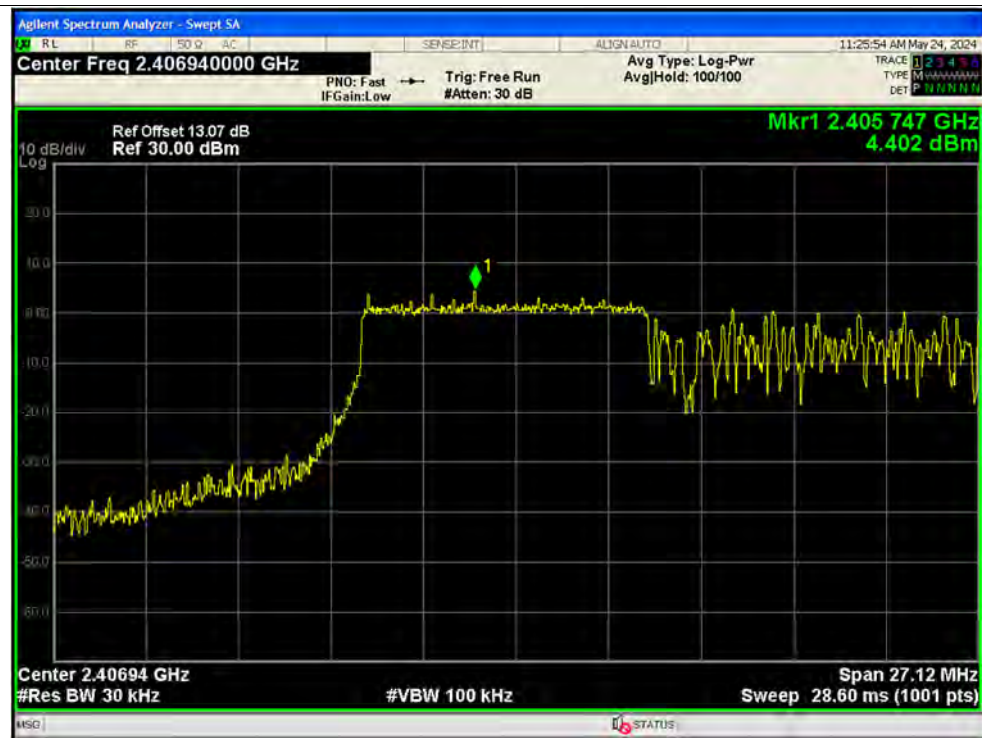
PSD NVNT ax20 52@40 2462MHz Ant1



PSD NVNT ax20 52@40 2462MHz Ant2



PSD NVNT ax20 106@53 2412MHz Ant1



PSD NVNT ax20 106@53 2437MHz Ant1



PSD NVNT ax20 106@53 2412MHz Ant2



PSD NVNT ax20 106@53 2437MHz Ant2





PSD NVNT ax20 106@54 2462MHz Ant1



PSD NVNT ax20 106@54 2462MHz Ant2





A.8. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT + RJ45 Cable + PC + WIFI TX

Test voltage: AC 120V/60Hz

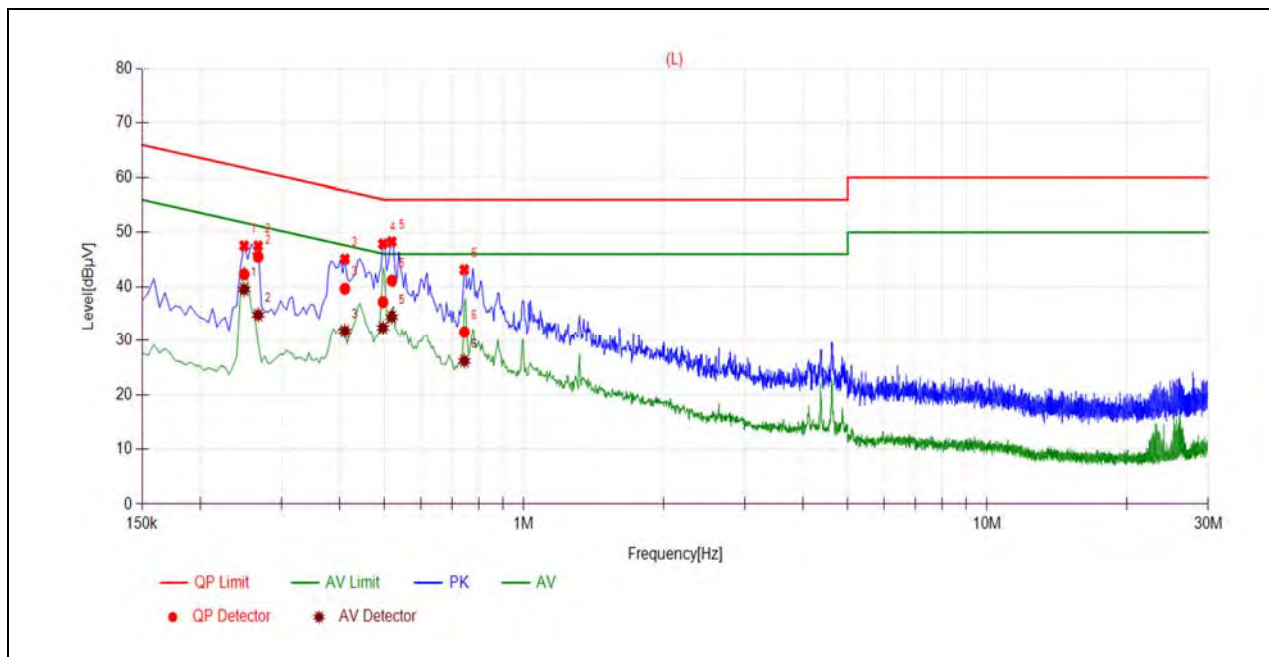
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

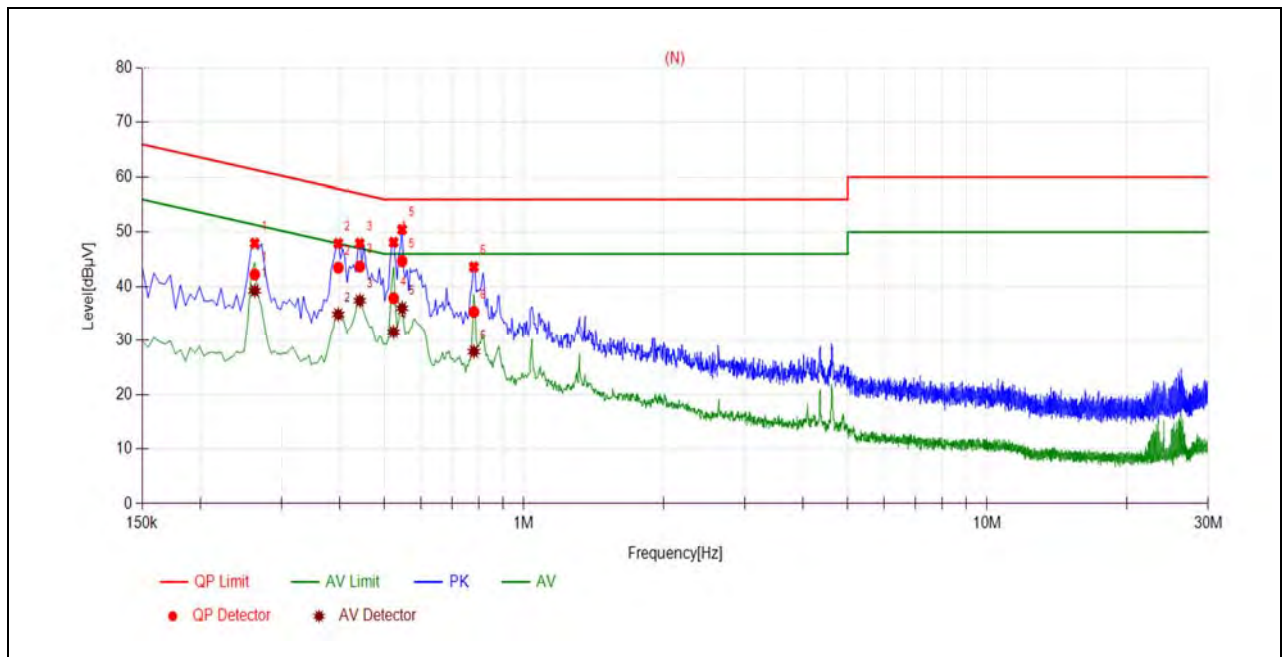
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2490	42.30	39.52	61.79	51.79	Line	PASS
2	0.2670	45.52	34.80	61.21	51.21		PASS
3	0.4110	39.62	31.76	57.63	47.63		PASS
4	0.4965	37.17	32.40	56.06	46.06		PASS
5	0.5190	41.13	34.39	56.00	46.00		PASS
6	0.7441	31.58	26.19	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2625	42.24	39.25	61.35	51.35	Neutral	PASS
2	0.3975	43.49	34.88	57.91	47.91		PASS
3	0.4425	43.70	37.43	57.01	47.01		PASS
4	0.5235	37.87	31.61	56.00	46.00		PASS
5	0.5460	44.69	36.03	56.00	46.00		PASS
6	0.7801	35.34	27.91	56.00	46.00		PASS



A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

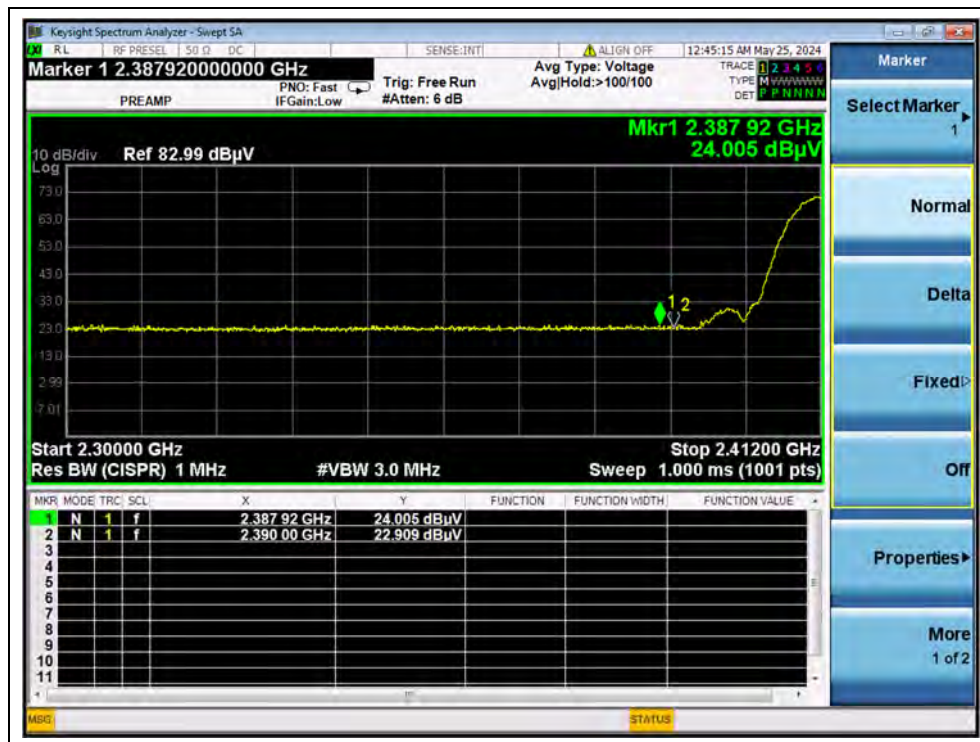
A_{Factor} : Antenna Factor at 3m

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

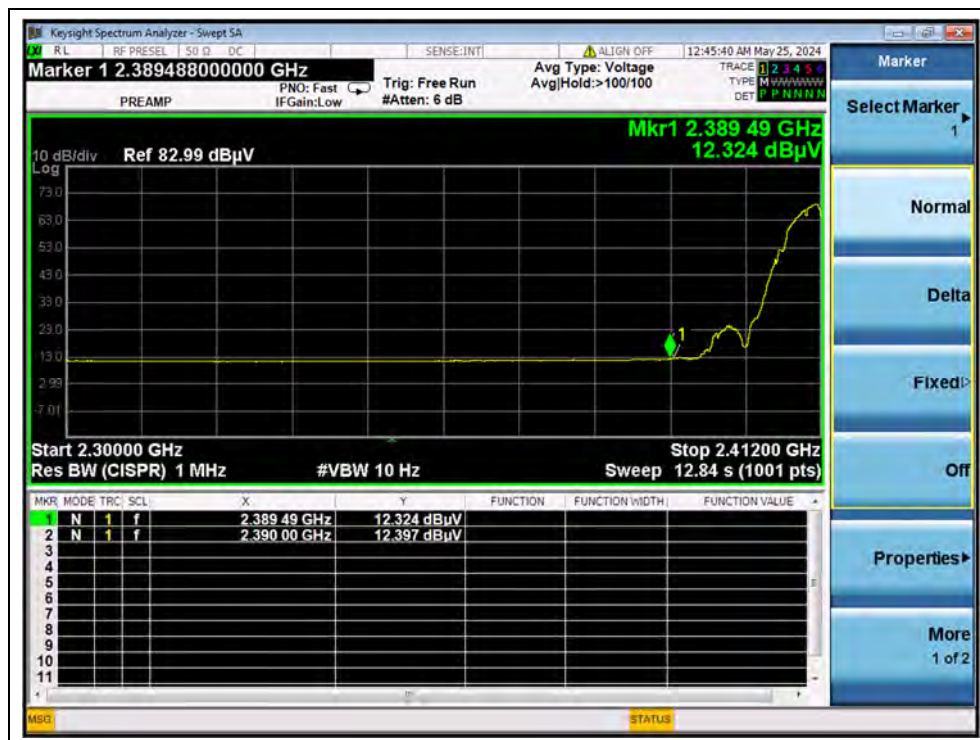
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11b Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2387.92	PK	24.01	6.74	27.20	57.95	74	PASS
1	2390.00	AV	12.40	6.74	27.20	46.34	54	PASS
11	2489.63	PK	24.69	6.74	27.20	58.63	74	PASS
11	2490.46	AV	13.17	6.74	27.20	47.11	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

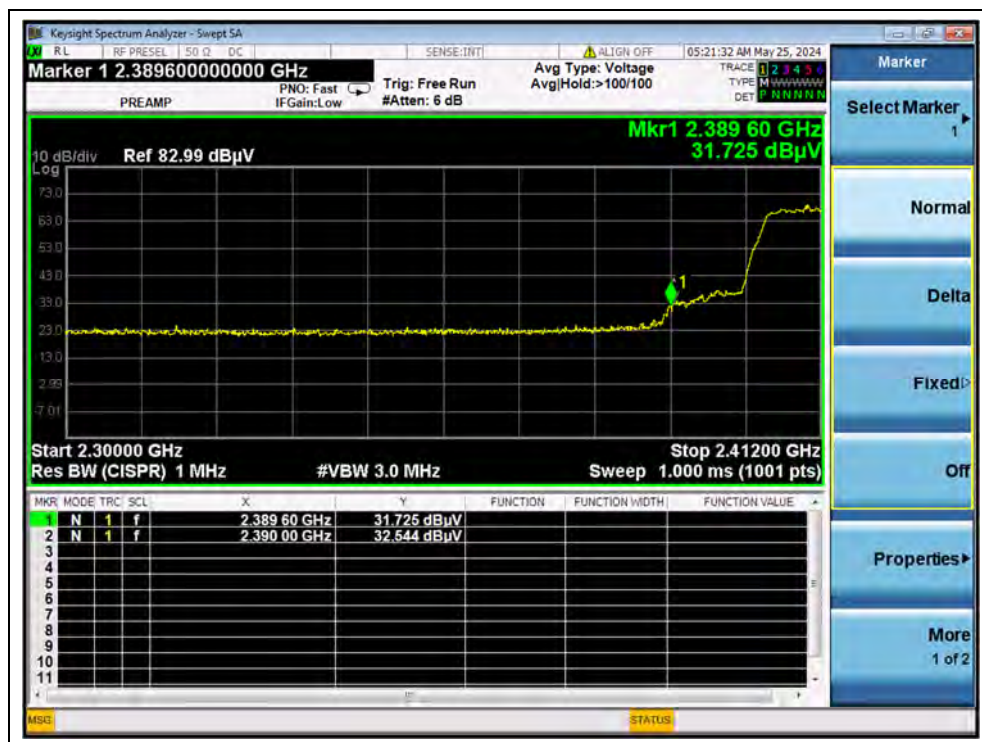


(AVERAGE, Channel 11, 802.11b)

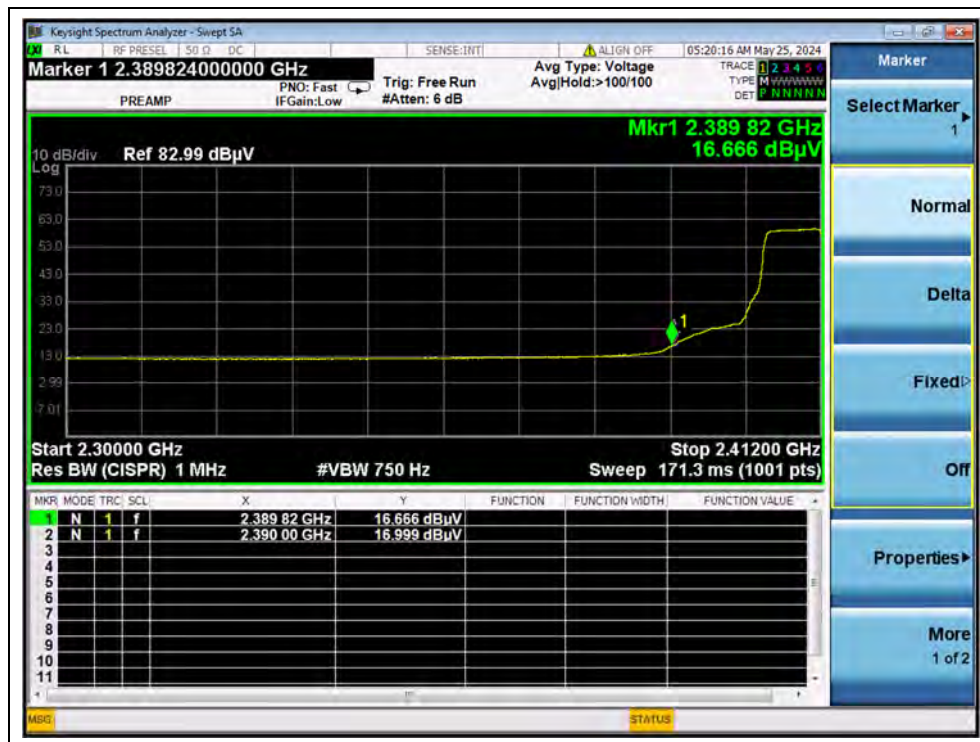


802.11g Mode

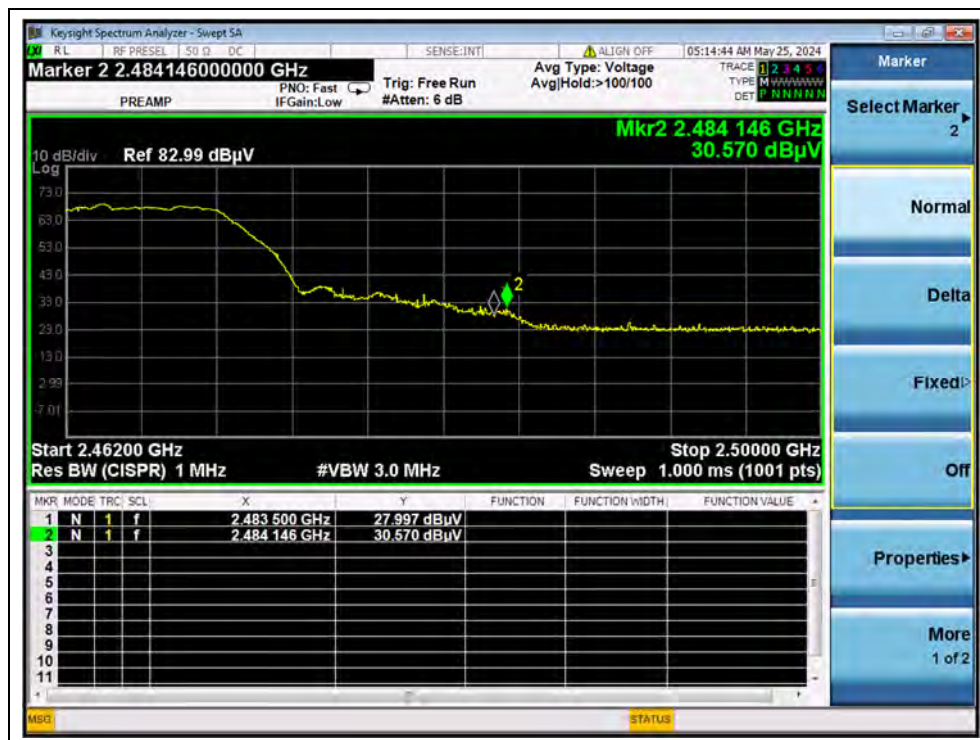
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2390.00	PK	32.54	6.74	27.20	66.48	74	PASS
1	2390.00	AV	17.00	6.74	27.20	50.94	54	PASS
11	2484.15	PK	30.57	6.74	27.20	64.51	74	PASS
11	2483.50	AV	15.67	6.74	27.20	49.61	54	PASS



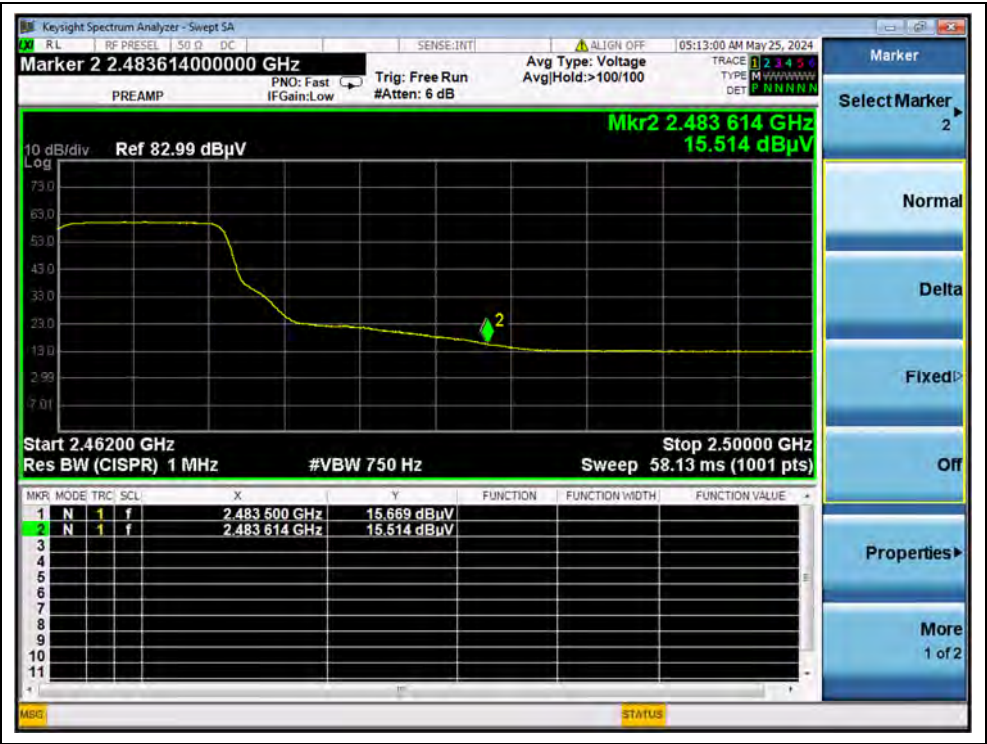
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



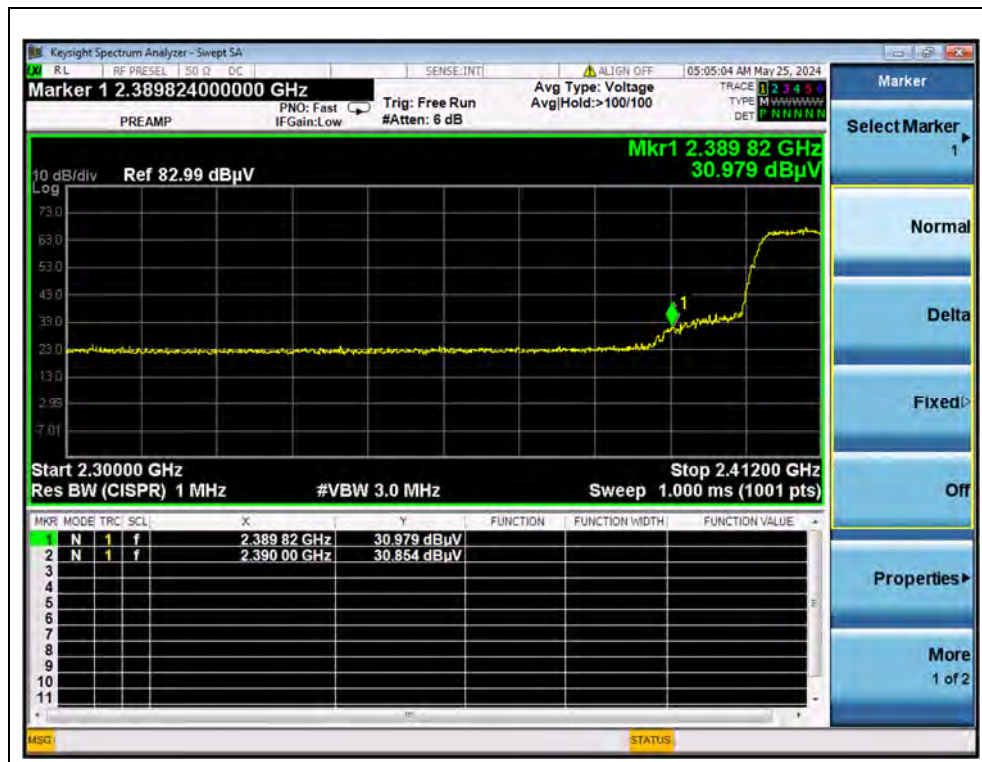
(PEAK, Channel 11, 802.11g)



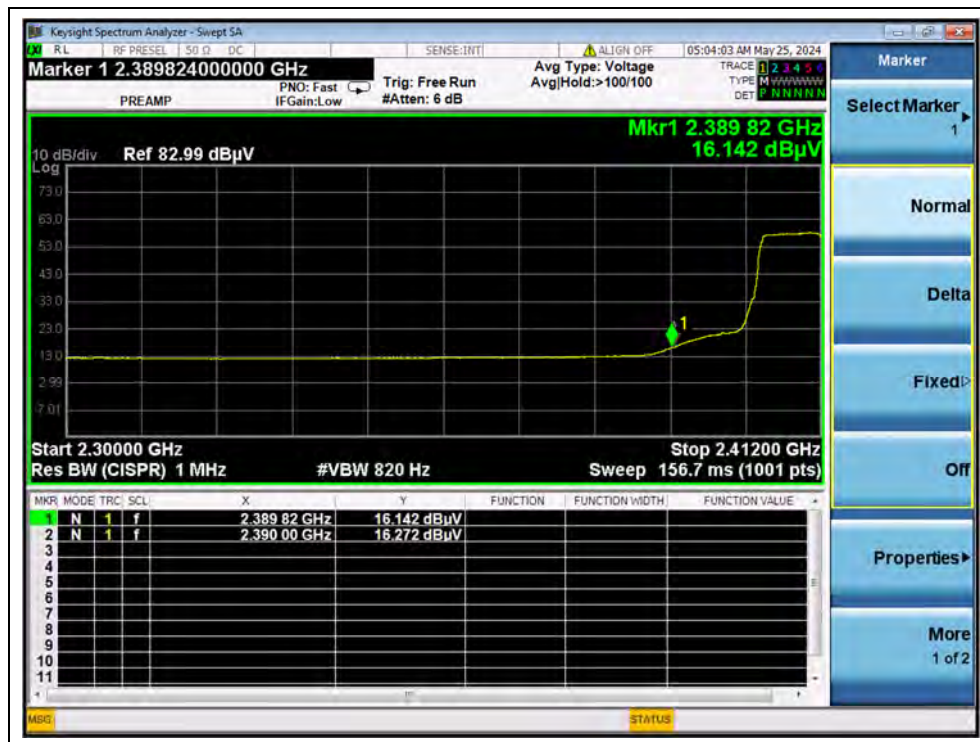
(AVERAGE, Channel 11, 802.11g)

**802.11n (HT20) Mode**

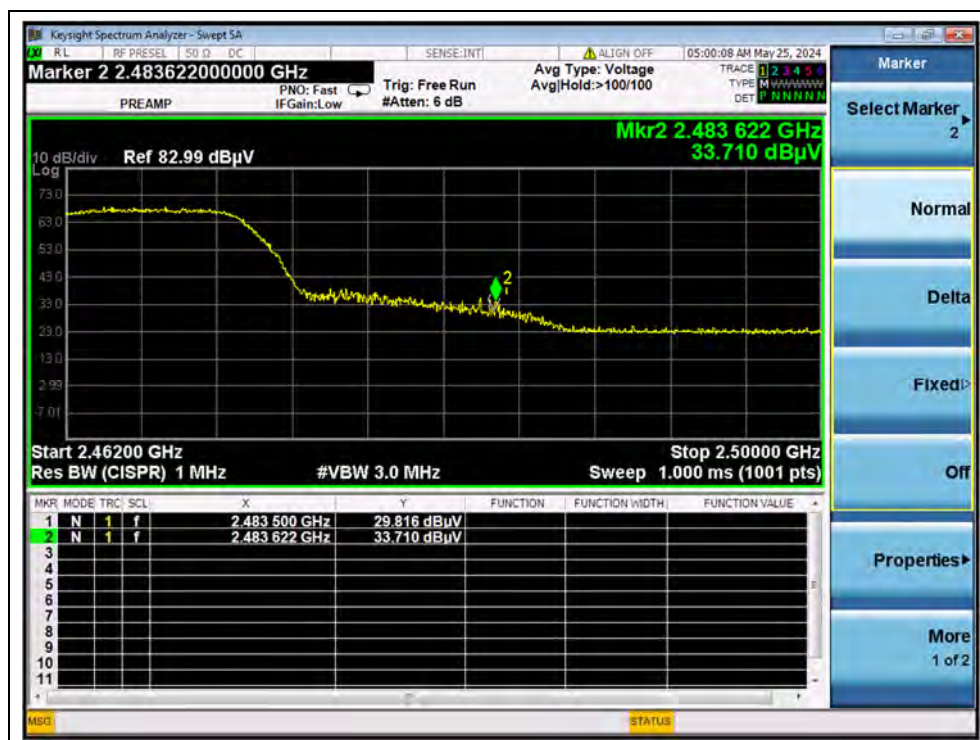
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2389.82	PK	30.98	6.74	27.20	64.92	74	PASS
1	2390.00	AV	16.27	6.74	27.20	50.21	54	PASS
11	2483.62	PK	33.71	6.74	27.20	67.65	74	PASS
11	2483.50	AV	16.20	6.74	27.20	50.14	54	PASS



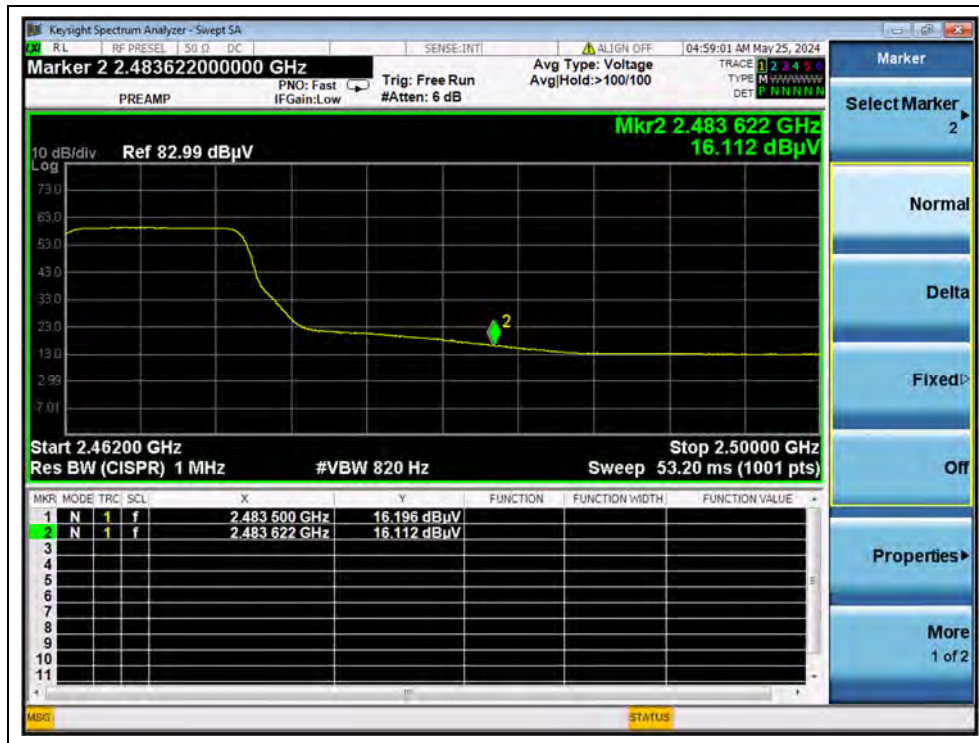
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



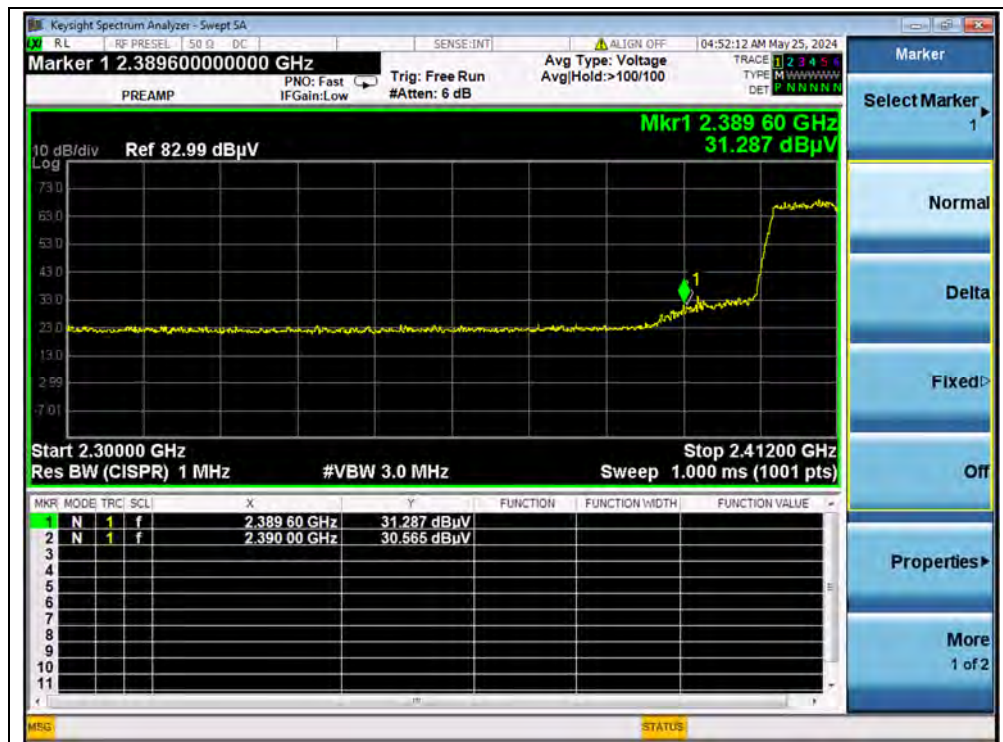
(PEAK, Channel 11, 802.11n (HT20))



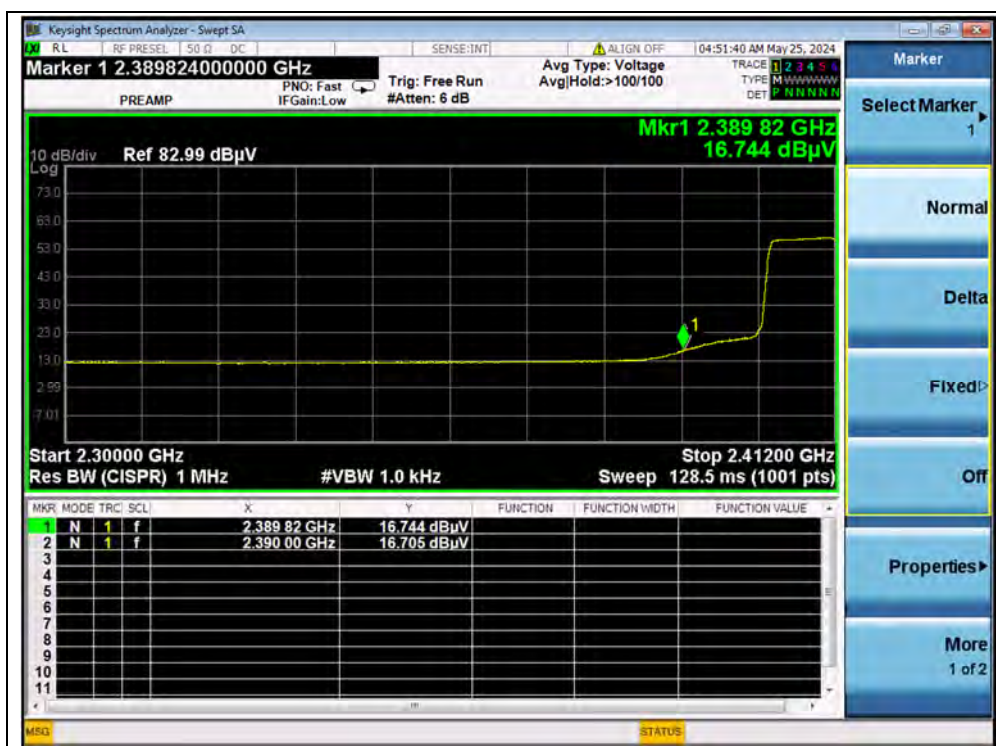
(AVERAGE, Channel 11, 802.11n (HT20))

**802.11ax (HEW20) Mode**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2389.60	PK	31.29	6.74	27.20	65.23	74	PASS
1	2389.82	AV	16.74	6.74	27.20	50.68	54	PASS
11	2484.69	PK	32.12	6.74	27.20	66.06	74	PASS
11	2483.66	AV	16.57	6.74	27.20	50.51	54	PASS



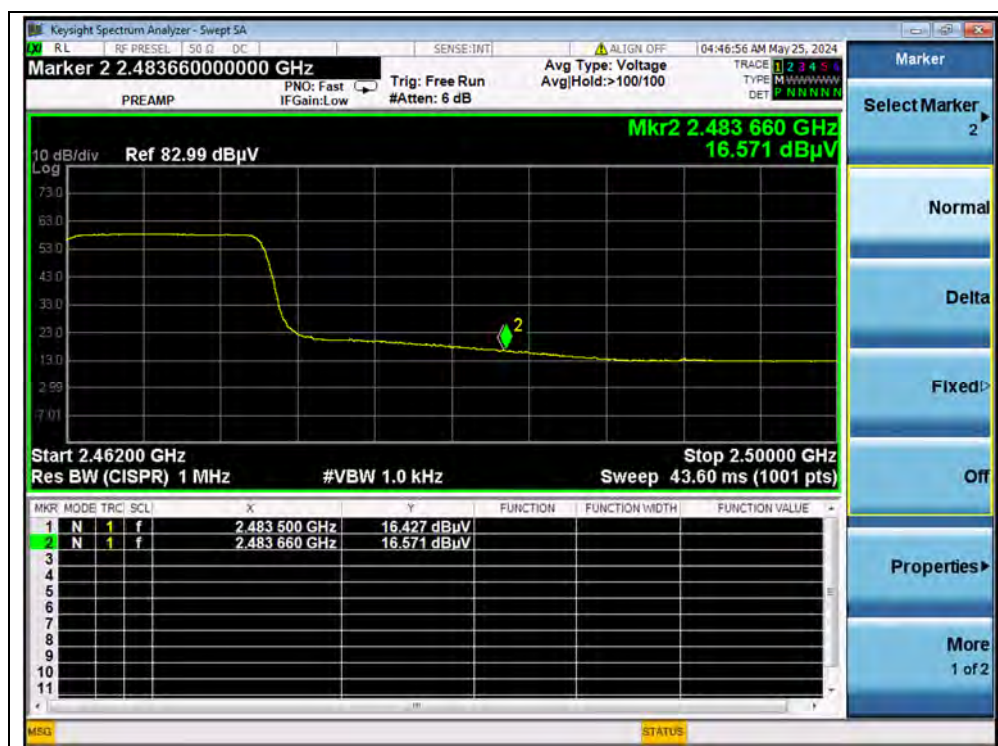
(PEAK, Channel 1, 802.11ax (HEW20))



(AVERAGE, Channel 1, 802.11ax (HEW20))



(PEAK, Channel 11, 802.11ax (HEW20))



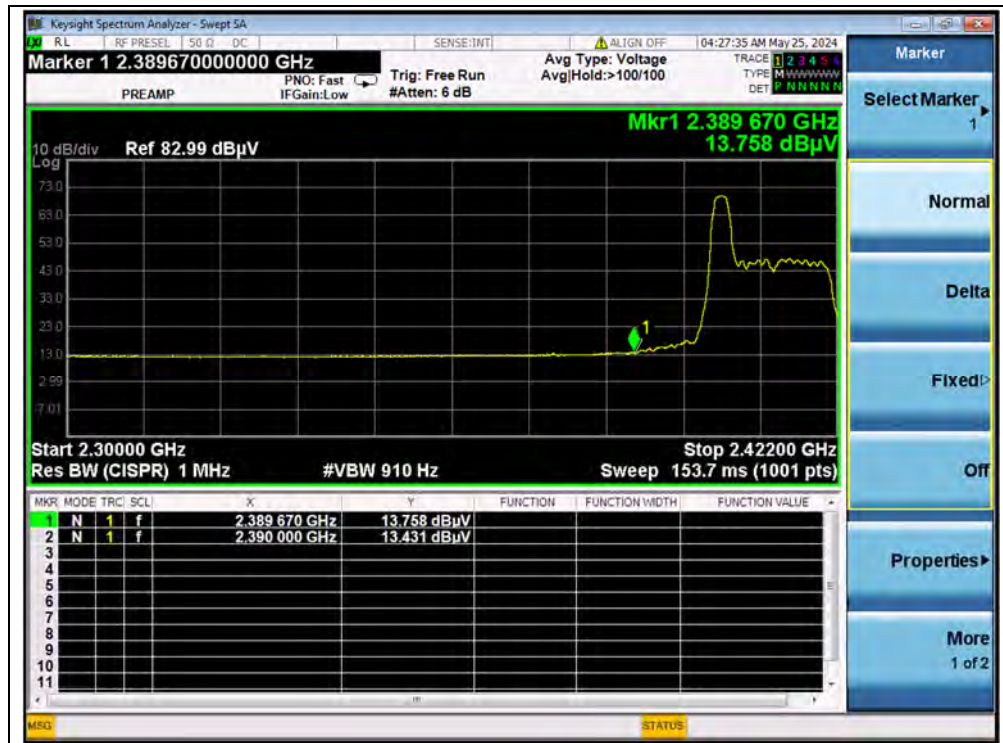
(AVERAGE, Channel 11, 802.11ax (HEW20))

**802.11ax (HEW20) RU26 Mode**

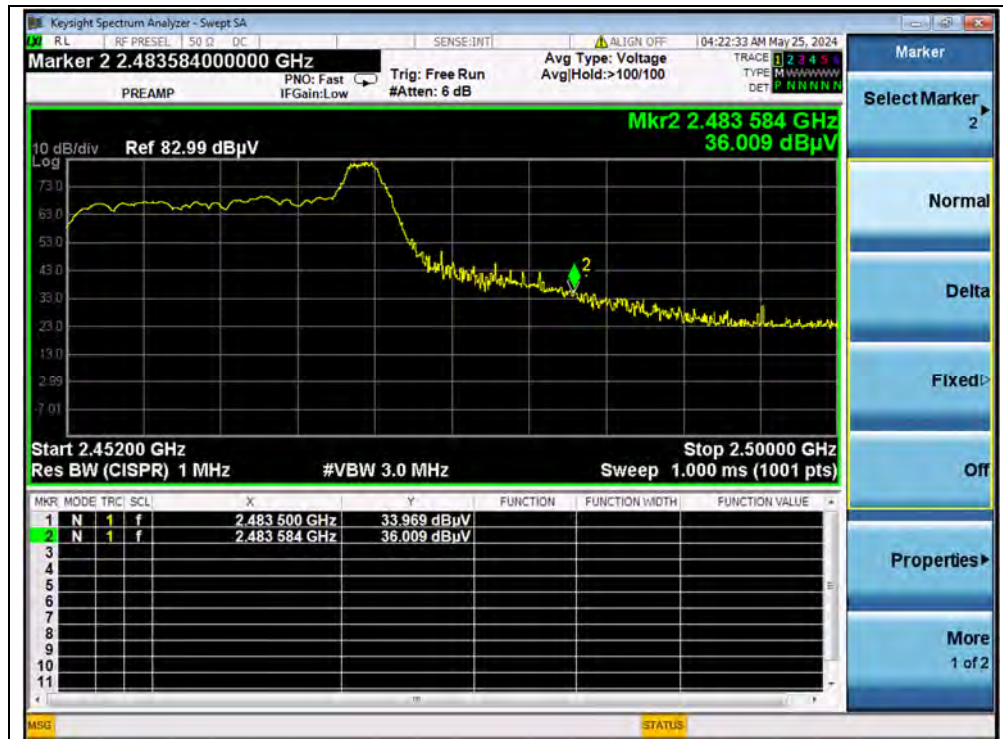
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2387.23	PK	35.12	6.74	27.20	69.06	74	PASS
1	2389.67	AV	13.76	6.74	27.20	47.70	54	PASS
11	2483.58	PK	36.01	6.74	27.20	69.95	74	PASS
11	2484.11	AV	14.81	6.74	27.20	48.75	54	PASS



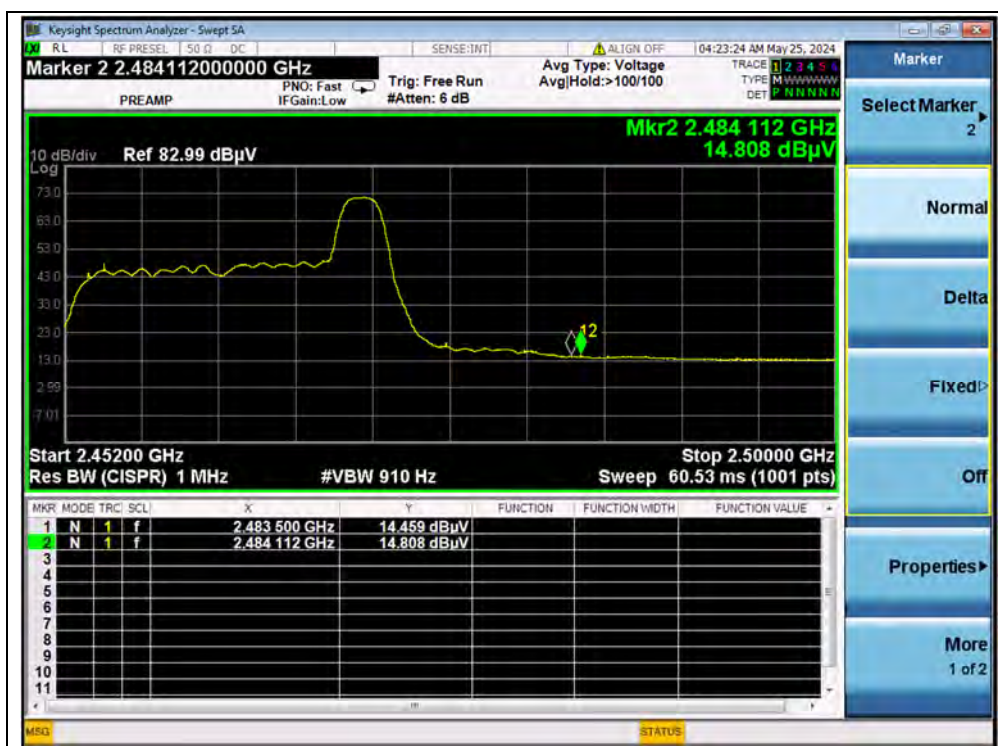
(PEAK, Channel 1, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 1, 802.11ax (HEW20) RU26)



(PEAK, Channel 11, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 11, 802.11ax (HEW20) RU26)



A.10. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

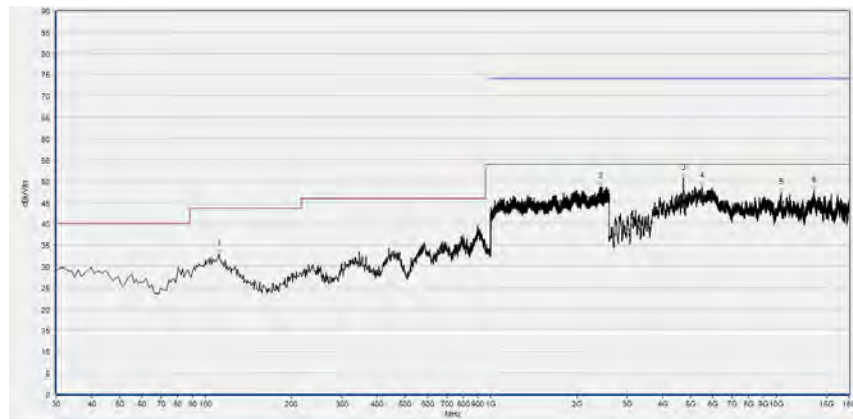
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dB μ V/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dB μ V/m)	Antenna Polarity
2471.10	83.24	27.20	6.74	117.18	Horizontal

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).

**802.11b Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.77	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2418.667	48.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	50.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5476.720	48.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10392.400	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13577.120	47.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

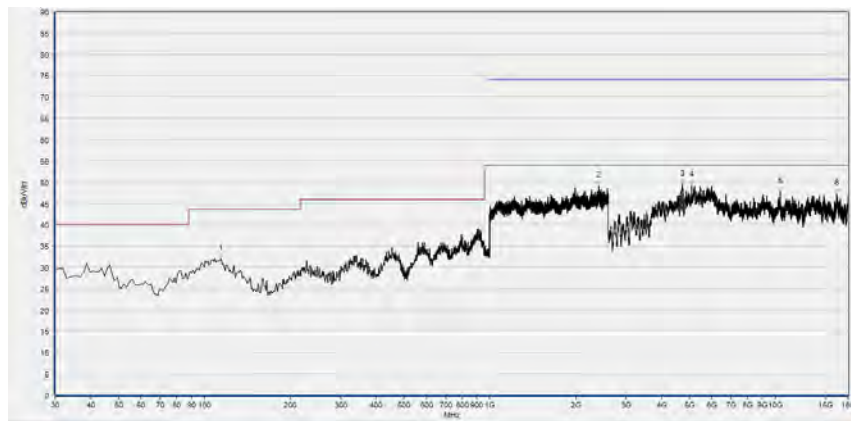


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.390	33.07	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2455.467	48.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	49.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5184.120	49.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9382.160	47.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13490.880	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

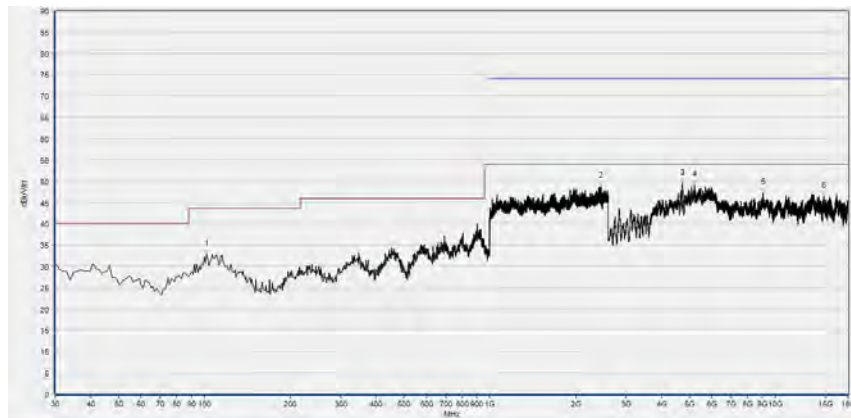


Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.390	32.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2413.333	49.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4737.520	49.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5088.640	49.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10389.320	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16444.600	47.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

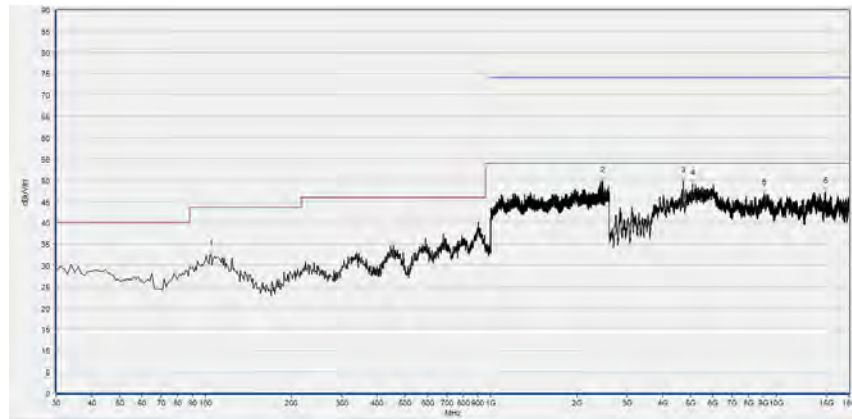
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	32.90	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2449.067	48.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	49.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5221.080	49.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9064.920	47.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14772.160	46.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

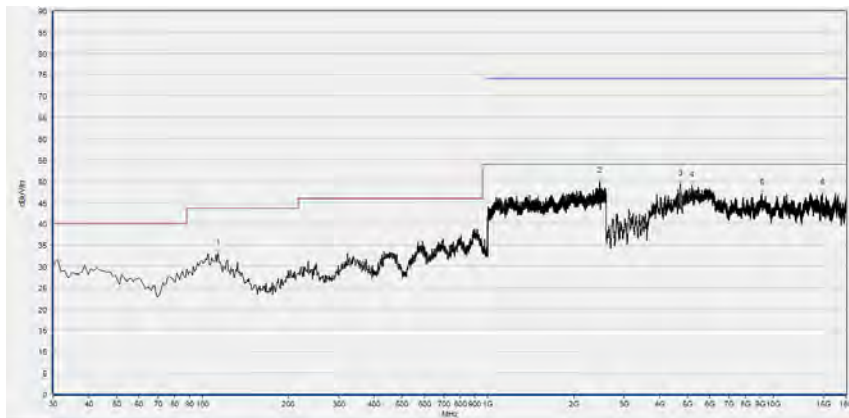
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2461.333	49.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4731.360	49.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5094.800	49.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9074.160	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14855.320	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



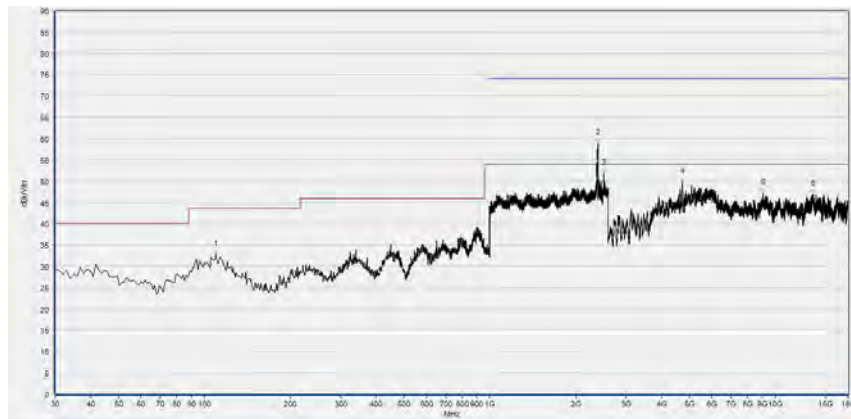
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2461.333	49.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4728.280	49.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5187.200	48.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9104.960	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14839.920	47.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



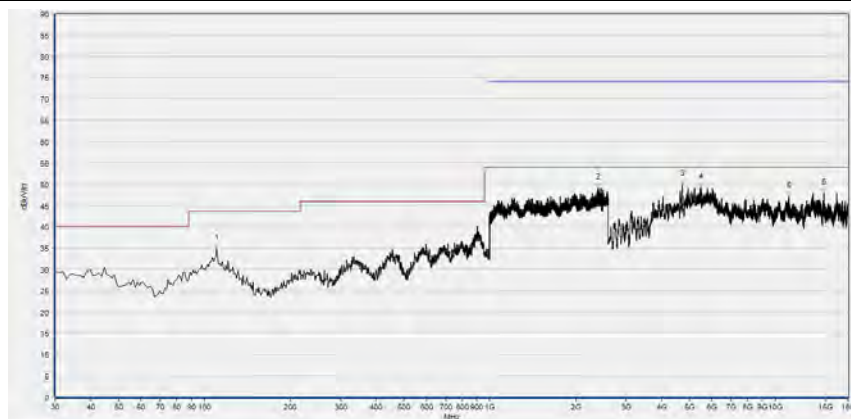
802.11g Mode

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.76	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2390.400	58.80	N/A	44.38	74.00	N/A	54.00	Horizontal	PASS
2513.600	51.75	N/A	37.62	74.00	N/A	54.00	Horizontal	PASS
4734.440	49.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9077.240	47.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13604.840	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

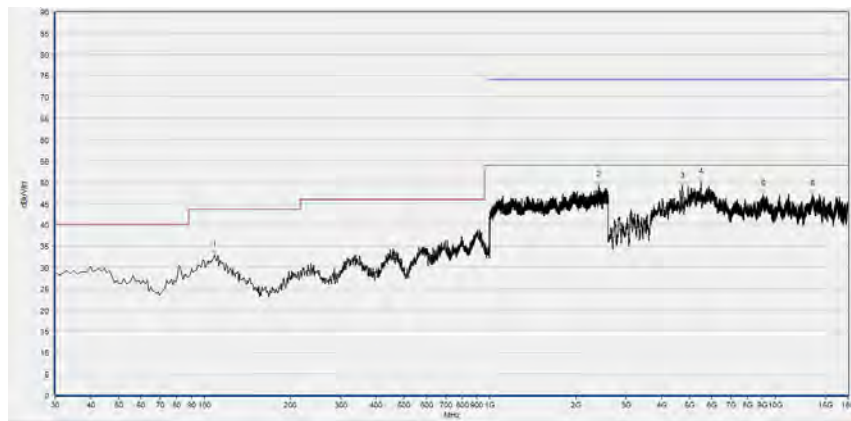
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	34.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2401.067	49.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4731.360	50.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5476.720	49.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11150.080	47.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14833.760	47.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

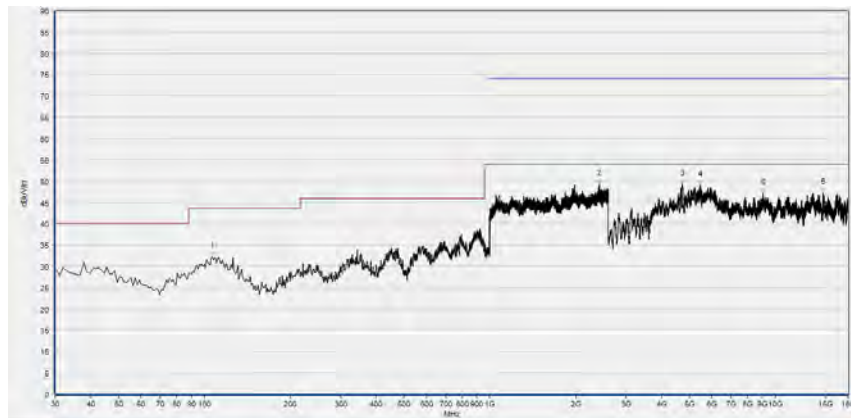
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.89	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2411.733	49.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4731.360	48.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5479.800	50.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9086.480	47.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13500.120	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

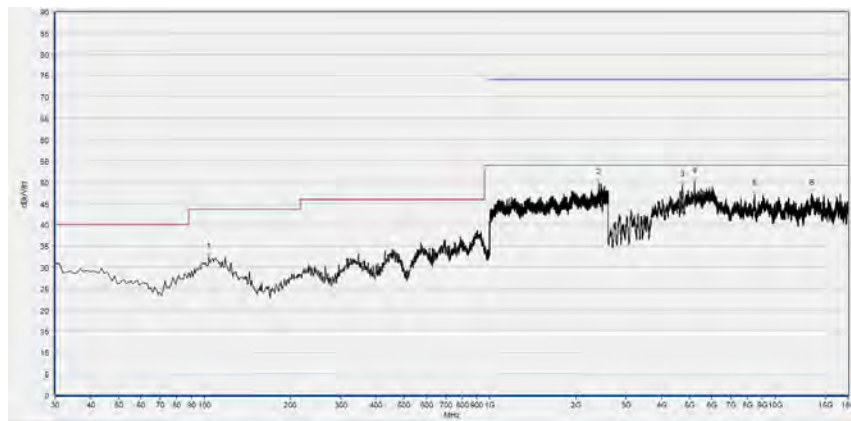


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2417.600	49.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4725.200	49.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5473.640	49.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9077.240	47.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14729.040	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

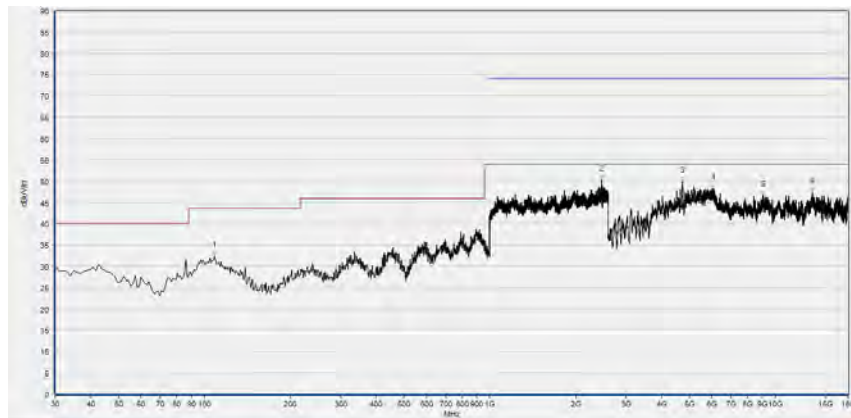


Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	32.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2409.067	49.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	49.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5218.000	50.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8479.720	47.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13432.360	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

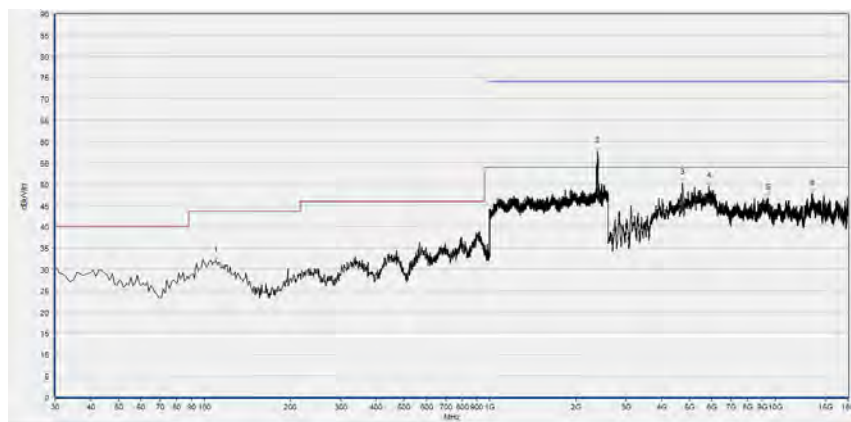


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2463.467	50.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4740.600	49.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6058.840	48.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9074.160	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13484.720	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

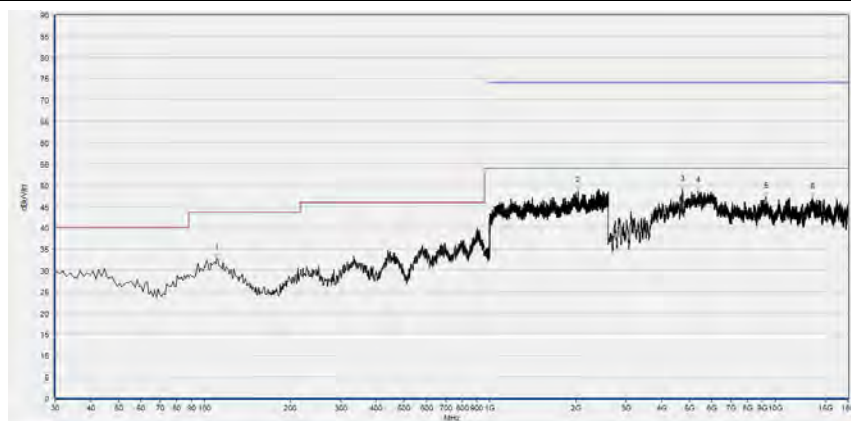
**802.11n (HT20) Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2387.733	57.59	N/A	41.55	74.00	N/A	54.00	Horizontal	PASS
4734.440	50.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5846.320	49.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9422.200	46.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13484.720	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

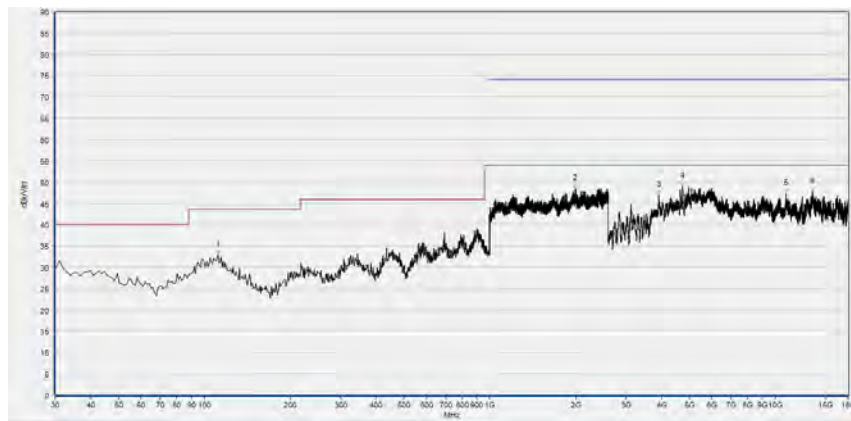
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2039.467	48.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	48.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5378.160	48.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9277.440	47.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13487.800	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

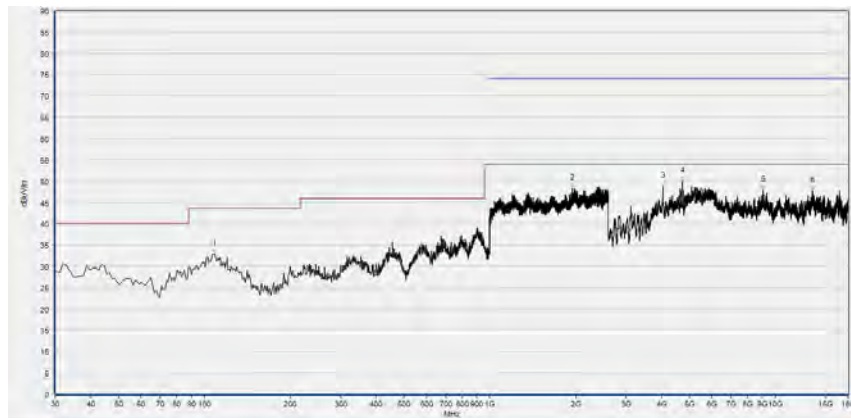
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1995.733	48.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3915.160	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4737.520	48.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10882.120	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13478.560	47.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

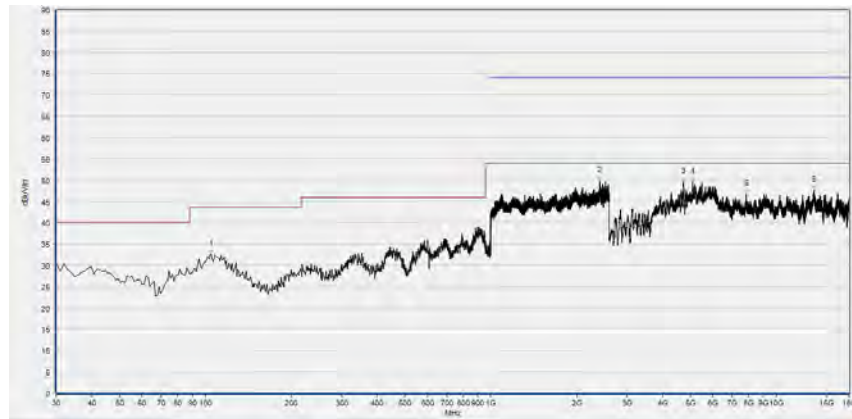
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1943.467	48.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4035.280	48.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	49.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9055.680	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13490.880	47.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

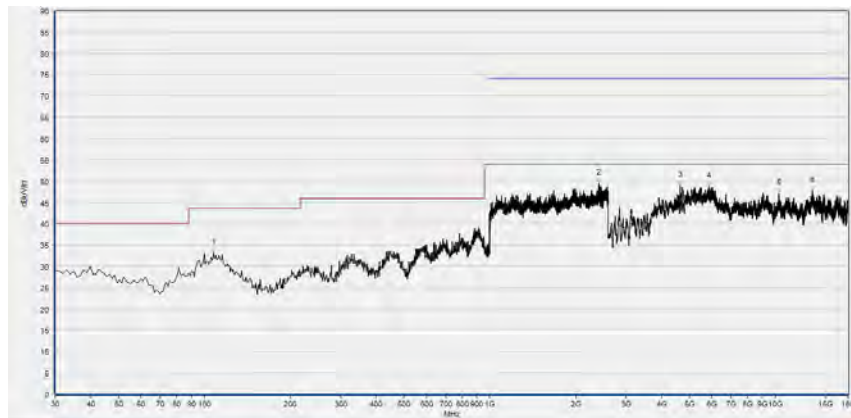
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2405.867	49.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	49.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5094.800	49.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7848.320	46.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13583.280	47.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

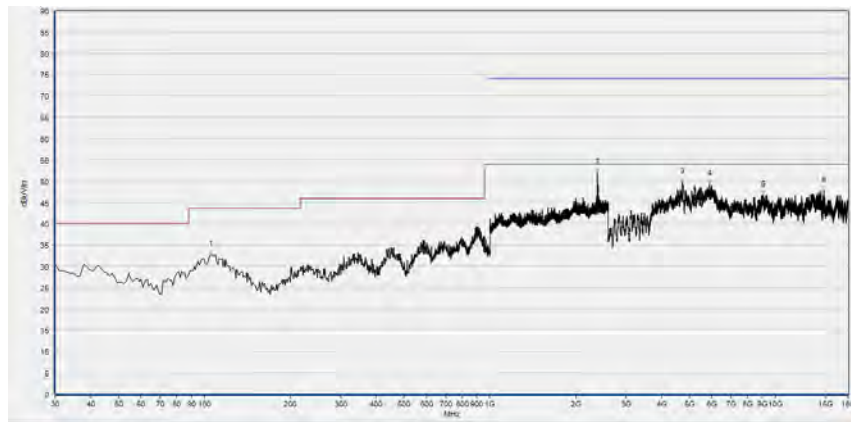


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	33.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2412.267	49.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4651.280	48.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5864.800	48.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10309.240	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13484.720	47.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

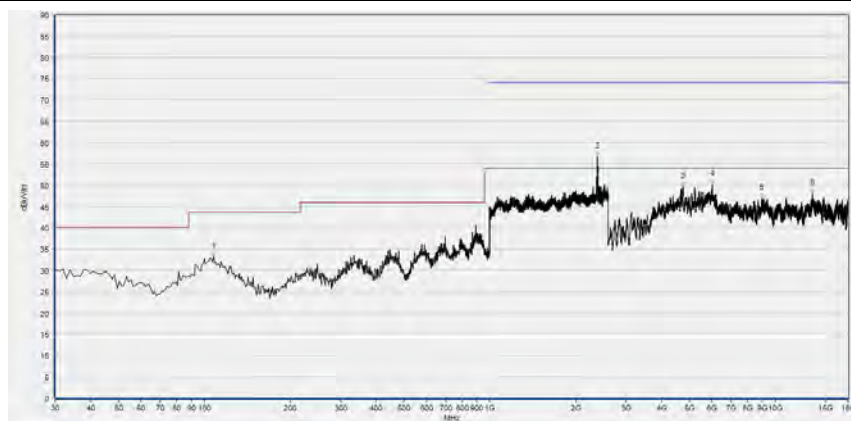
**802.11ax (HEW20) Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2385.600	51.96	N/A	38.15	74.00	N/A	54.00	Horizontal	PASS
4740.600	49.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5886.360	49.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9068.000	46.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14796.800	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

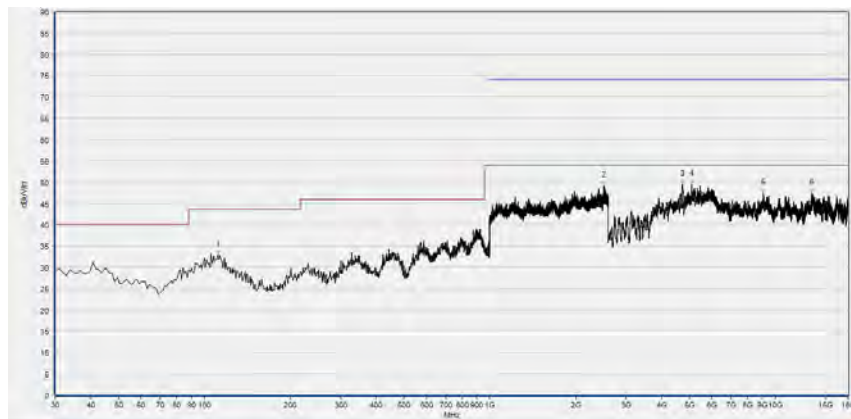


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	33.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2385.600	56.71	N/A	40.79	74.00	N/A	54.00	Vertical	PASS
4746.760	49.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6009.560	50.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8969.440	46.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13475.480	48.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

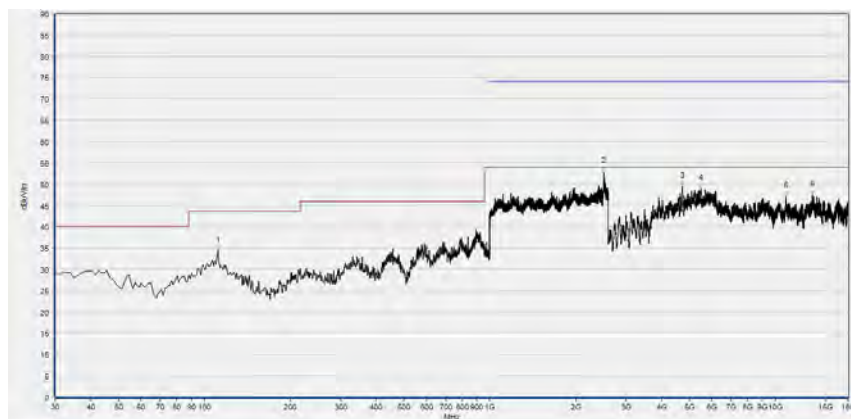


Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.77	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2509.333	49.15	N/A	39.90	74.00	N/A	54.00	Horizontal	PASS
4728.280	49.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5091.720	49.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9089.560	47.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13429.280	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

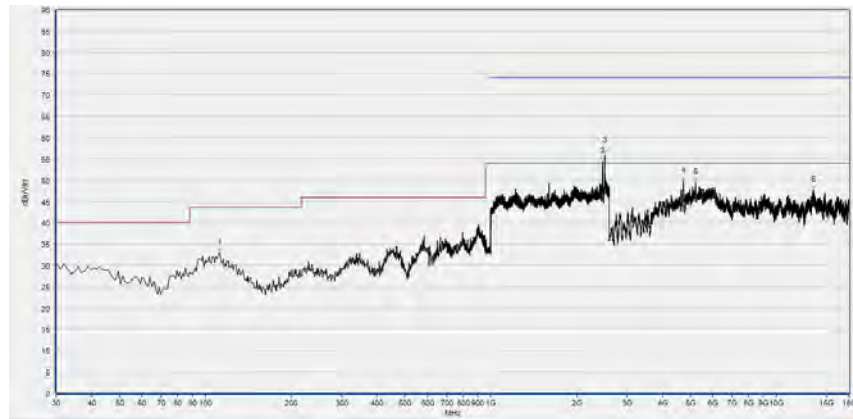


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	34.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2509.333	52.93	N/A	39.90	74.00	N/A	54.00	Vertical	PASS
4737.520	49.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5479.800	48.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10919.080	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13497.040	47.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

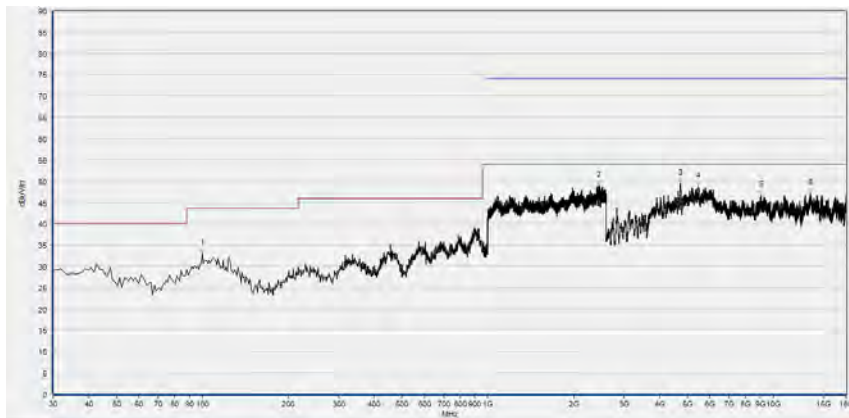


Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
112.450	32.89	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2464.533	54.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2505.067	56.00	N/A	39.24	74.00	N/A	54.00	Horizontal	PASS
4734.440	49.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5218.000	49.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13457.000	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

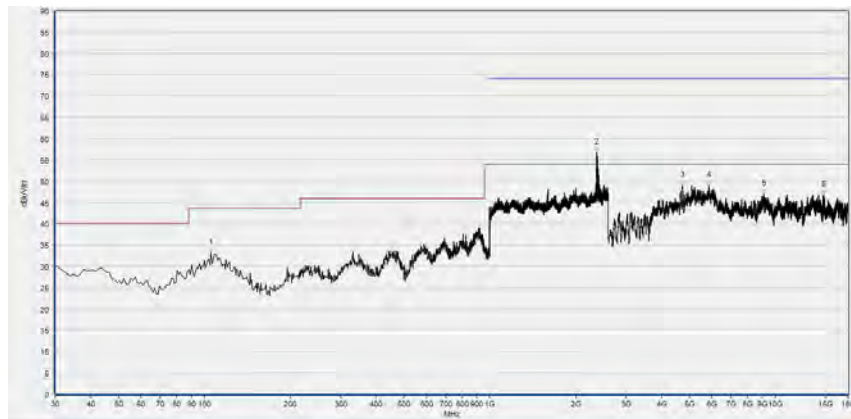


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	32.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2451.200	48.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	49.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5473.640	48.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9049.520	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13490.880	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

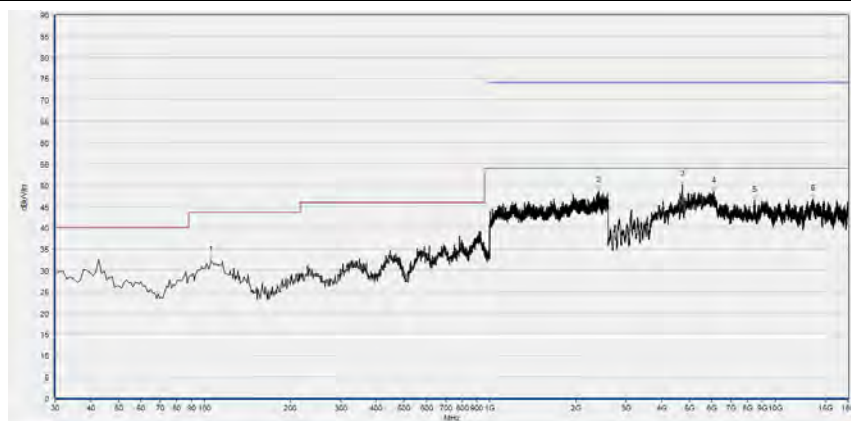
**802.11ax (HEW20) RU26 Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	33.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2368.533	56.68	N/A	36.67	74.00	N/A	54.00	Horizontal	PASS
4740.600	48.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5861.720	49.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9120.360	46.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14781.400	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

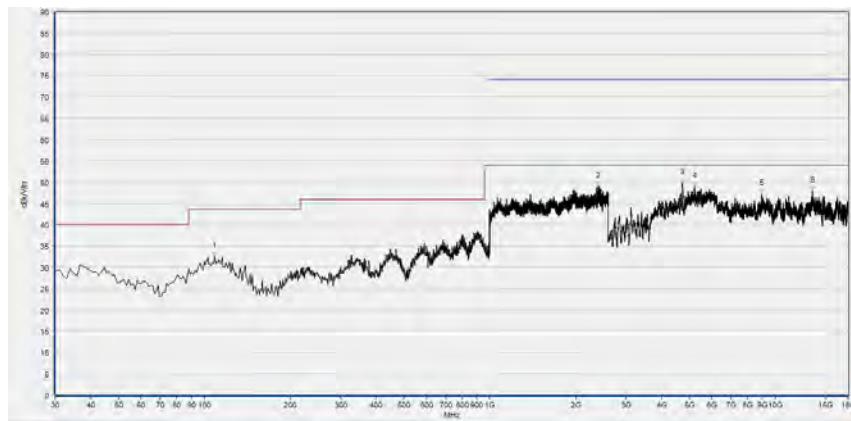


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	32.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2414.933	48.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	50.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6080.400	48.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8476.640	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13558.640	46.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

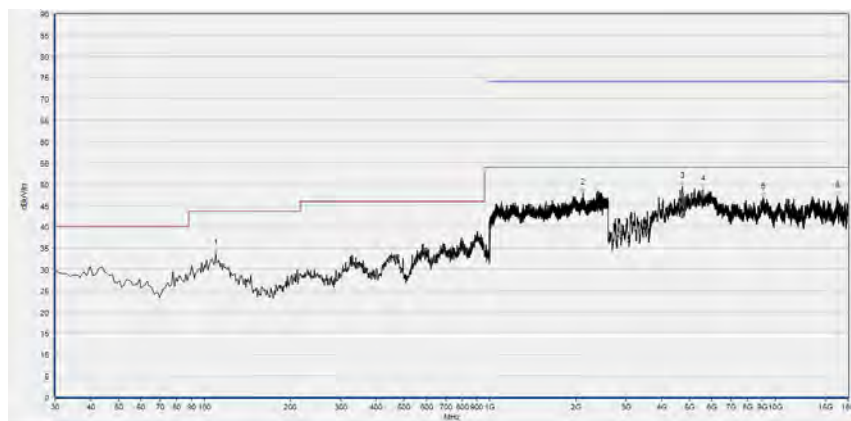


Plot for Channel 6



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2401.600	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	49.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5224.160	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8966.360	47.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13481.640	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

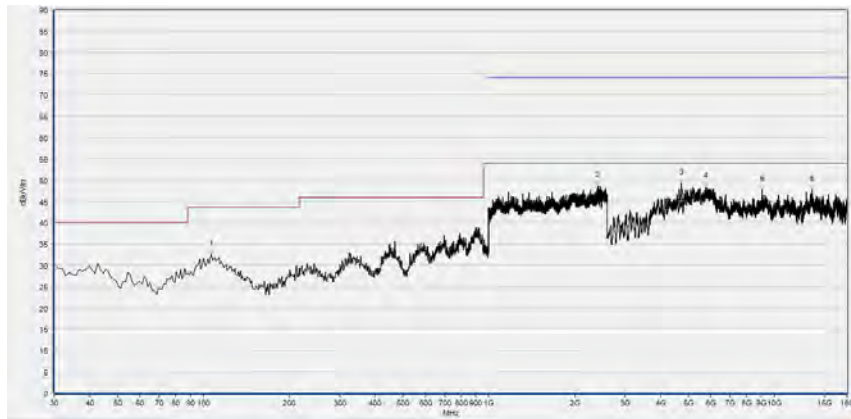


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	33.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2117.867	47.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	49.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5593.760	48.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9080.320	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16484.640	47.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

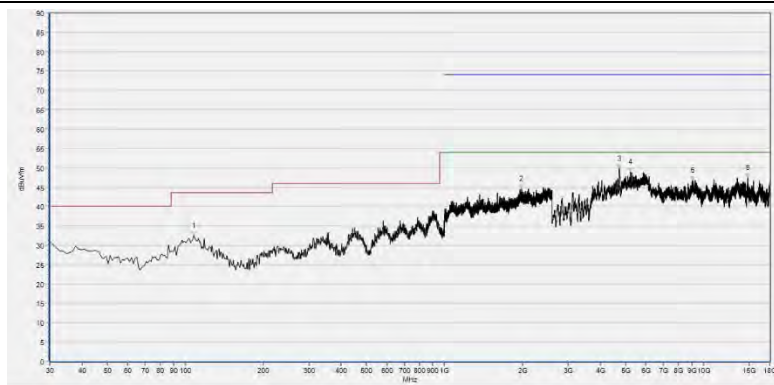


Plot for Channel 11



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2408.000	48.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	49.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5744.680	48.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9074.160	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13567.880	47.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1985.600	44.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4728.280	49.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5224.160	48.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9068.000	46.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14769.080	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT