

Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant2 Ref



Band Edge NVNT g 2412MHz Ant2 Emission



Band Edge NVNT g 2462MHz Ant2 Ref



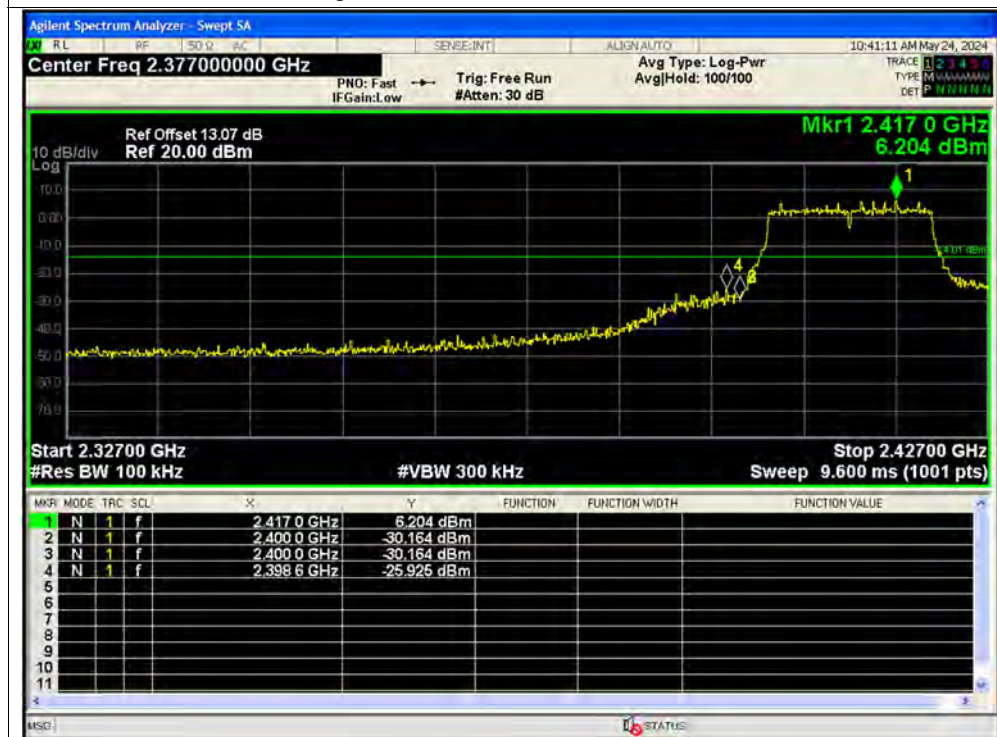
Band Edge NVNT g 2462MHz Ant2 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant2 Ref



Band Edge NVNT n20 2412MHz Ant2 Emission



Band Edge NVNT n20 2462MHz Ant2 Ref



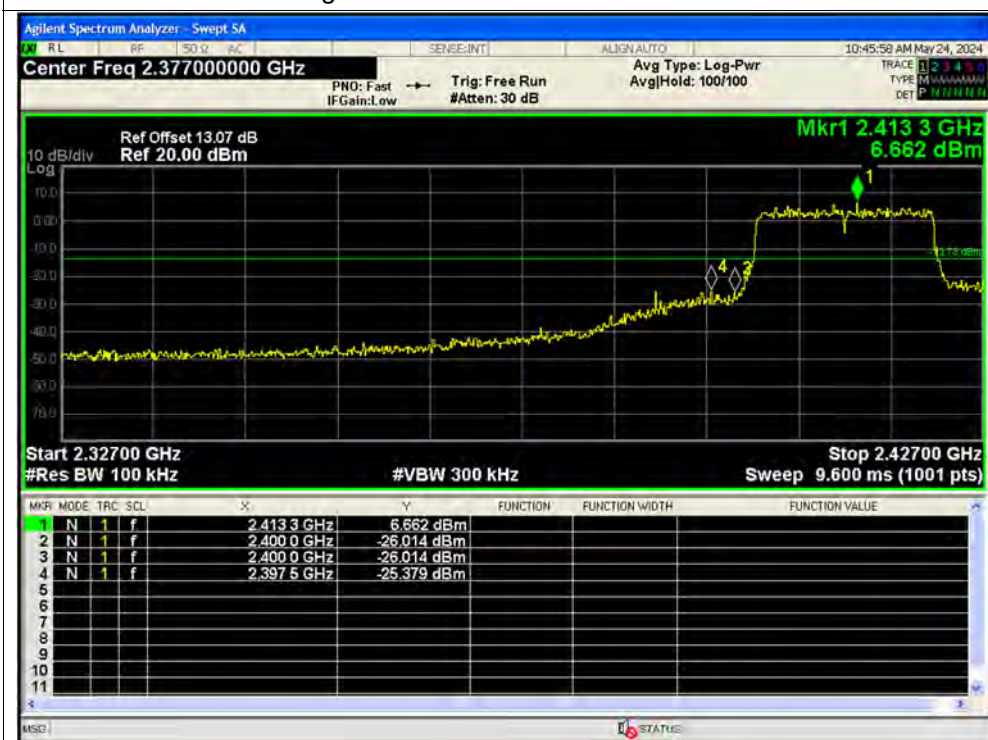
Band Edge NVNT n20 2462MHz Ant2 Emission



Band Edge NVNT ax20 2412MHz Ant1 Ref



Band Edge NVNT ax20 2412MHz Ant1 Emission



Band Edge NVNT ax20 2462MHz Ant1 Ref



Band Edge NVNT ax20 2462MHz Ant1 Emission



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Band Edge NVNT ax20 2412MHz Ant2 Emission



Band Edge NVNT ax20 2462MHz Ant2 Ref



Band Edge NVNT ax20 2462MHz Ant2 Emission



Band Edge NVNT ax20 26@0 2412MHz Ant1 Ref



Band Edge NVNT ax20 26@0 2412MHz Ant1 Emission





Band Edge NVNT ax20 26@0 2412MHz Ant2 Ref



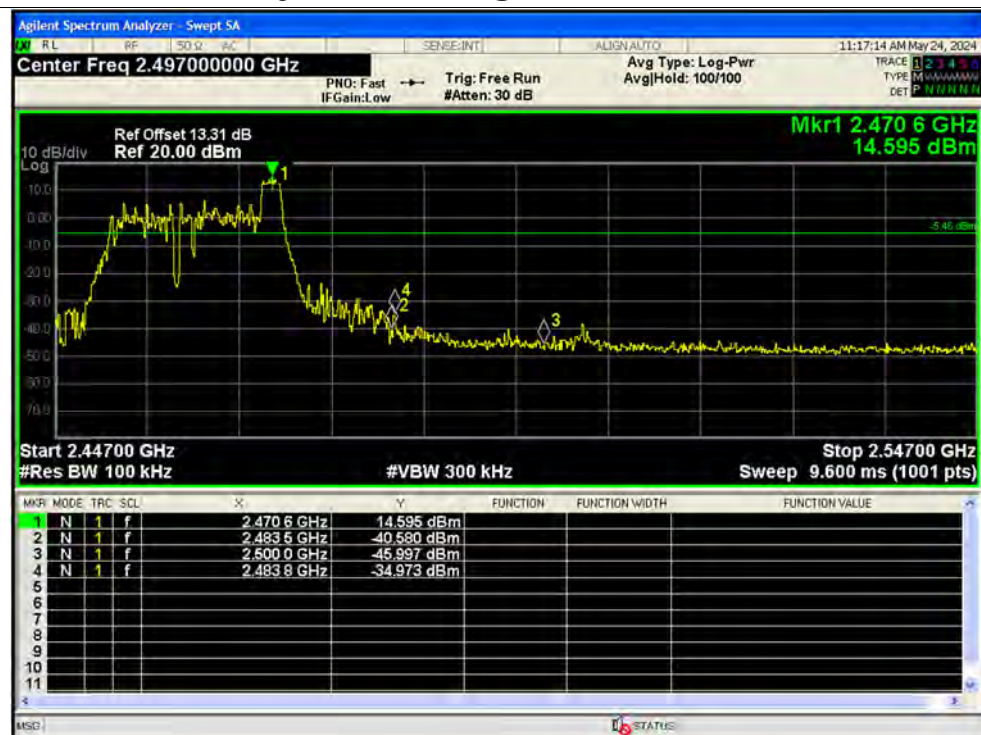
Band Edge NVNT ax20 26@0 2412MHz Ant2 Emission



Band Edge NVNT ax20 26@8 2462MHz Ant1 Ref



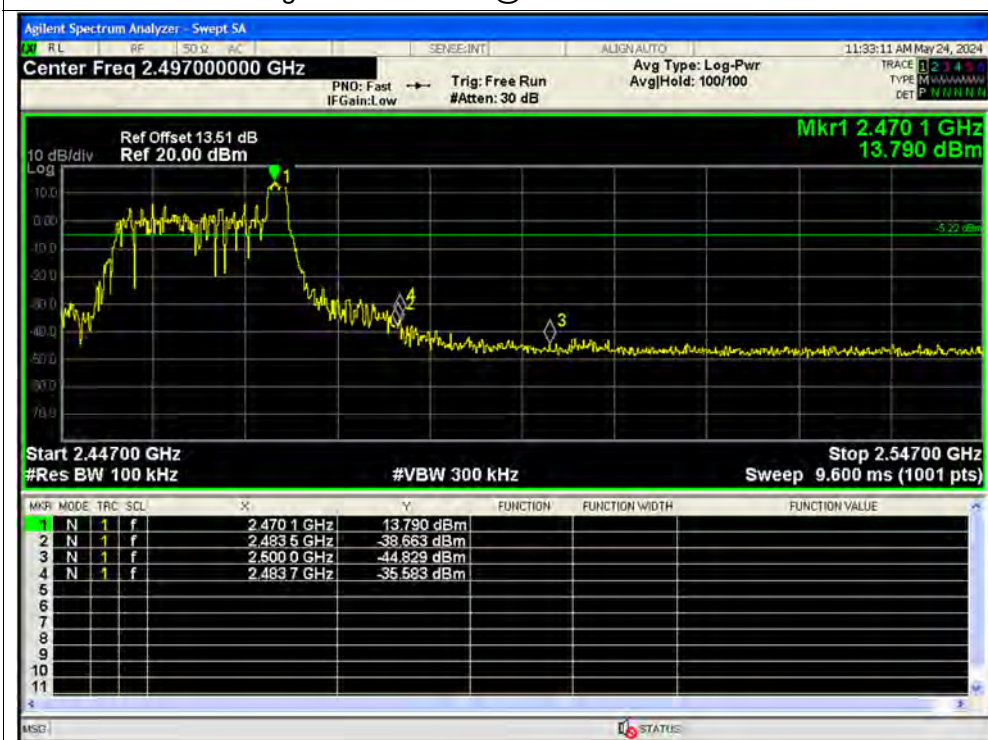
Band Edge NVNT ax20 26@8 2462MHz Ant1 Emission



Band Edge NVNT ax20 26@8 2462MHz Ant2 Ref



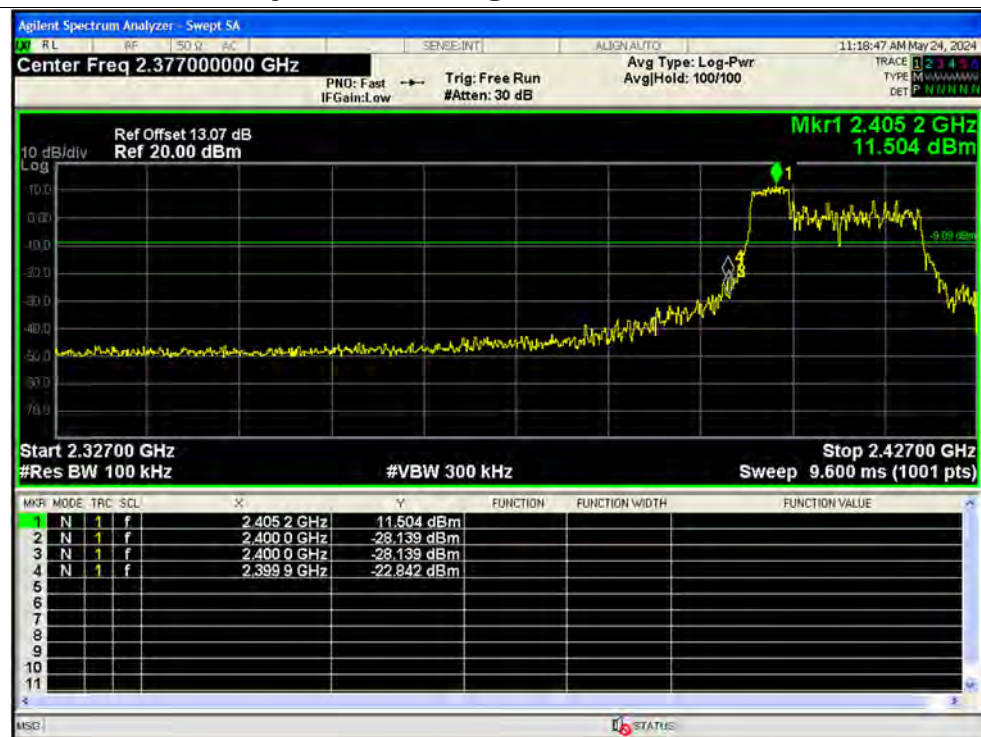
Band Edge NVNT ax20 26@8 2462MHz Ant2 Emission



Band Edge NVNT ax20 52@37 2412MHz Ant1 Ref



Band Edge NVNT ax20 52@37 2412MHz Ant1 Emission



Band Edge NVNT ax20 52@37 2412MHz Ant2 Ref



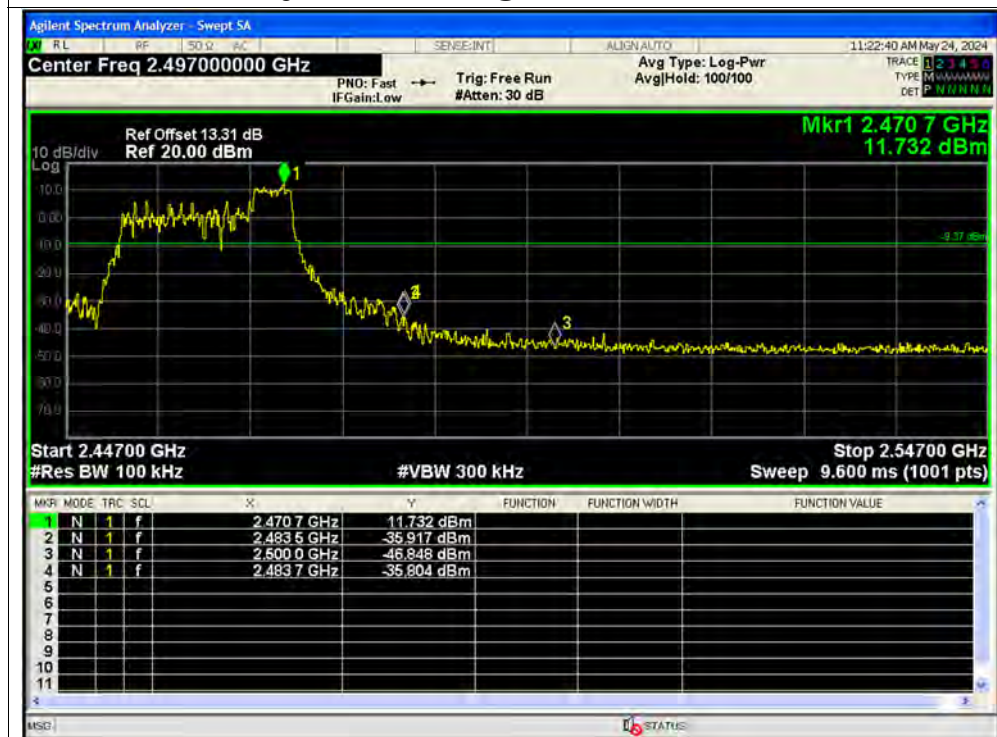
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Band Edge NVNT ax20 52@40 2462MHz Ant1 Ref



Band Edge NVNT ax20 52@40 2462MHz Ant1 Emission



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



Band Edge NVNT ax20 106@53 2412MHz Ant1 Emission



Band Edge NVNT ax20 106@53 2412MHz Ant2 Ref



Band Edge NVNT ax20 106@53 2412MHz Ant2 Emission



Band Edge NVNT ax20 106@54 2462MHz Ant1 Ref



Band Edge NVNT ax20 106@54 2462MHz Ant1 Emission



Band Edge NVNT ax20 106@54 2462MHz Ant2 Ref



Band Edge NVNT ax20 106@54 2462MHz Ant2 Emission



**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

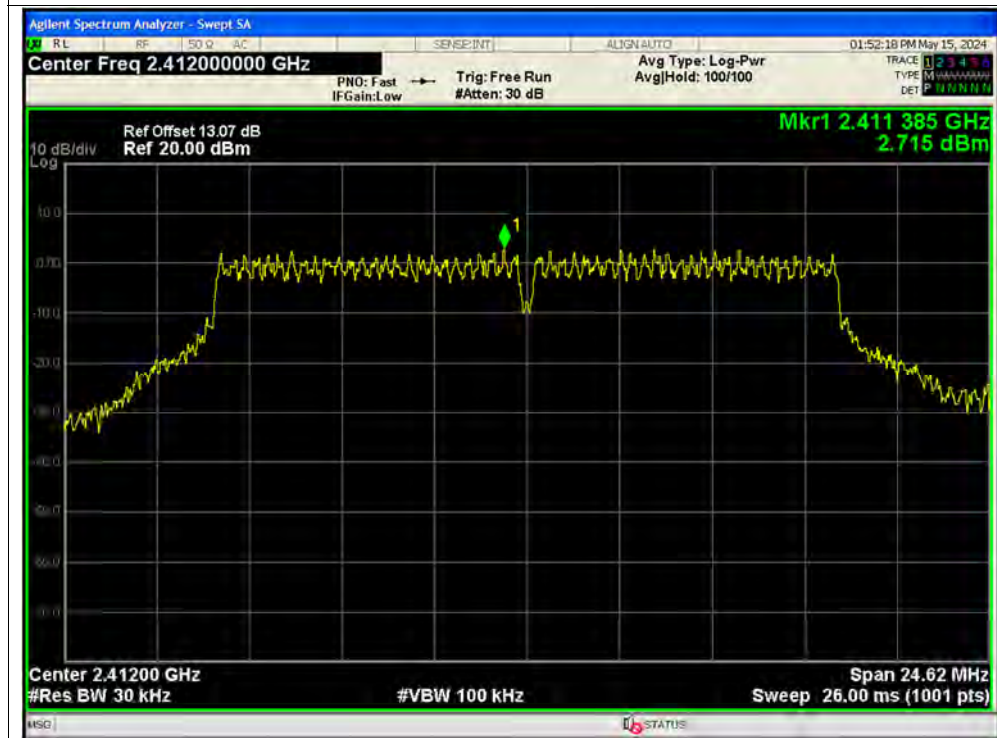


PSD NVNT b 2462MHz Ant2





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

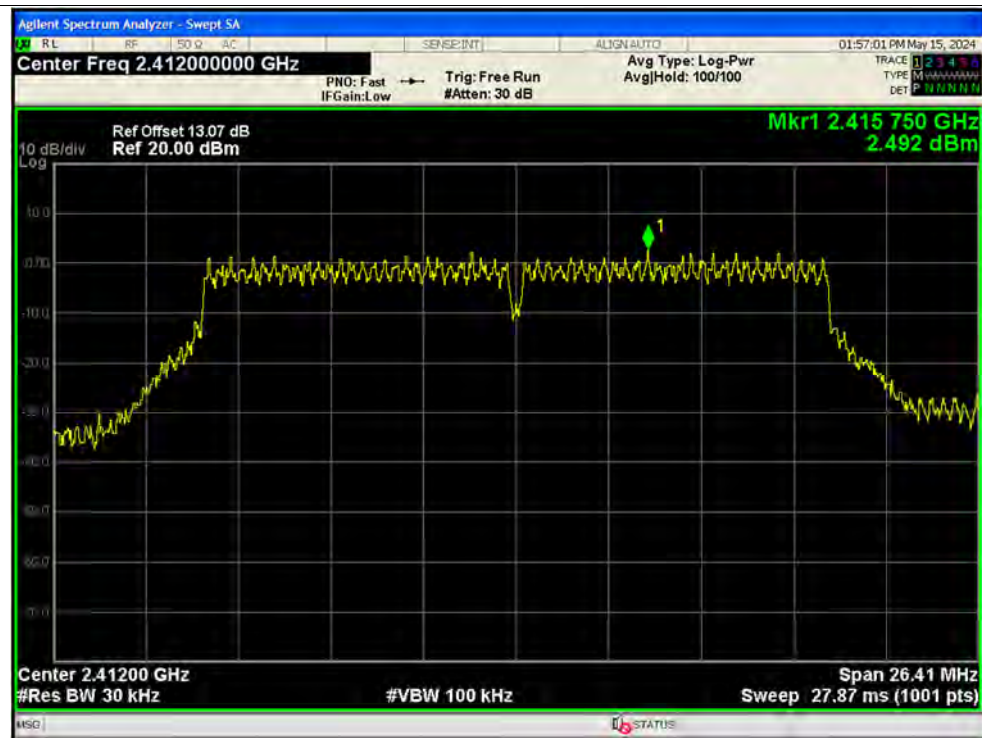


PSD NVNT g 2462MHz Ant2





PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

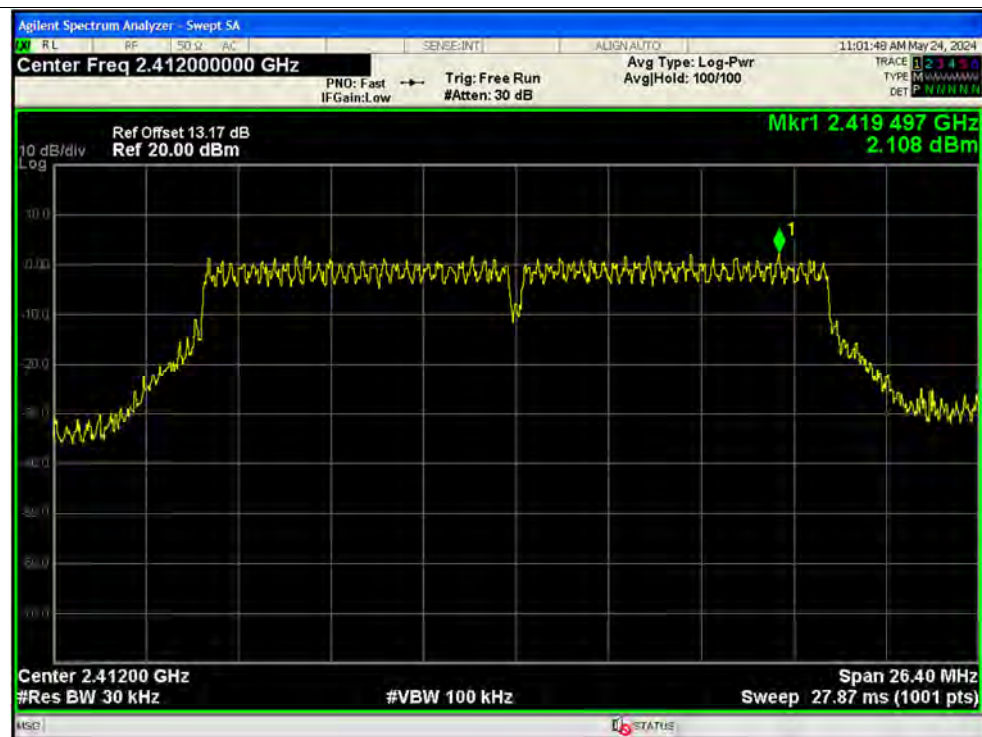




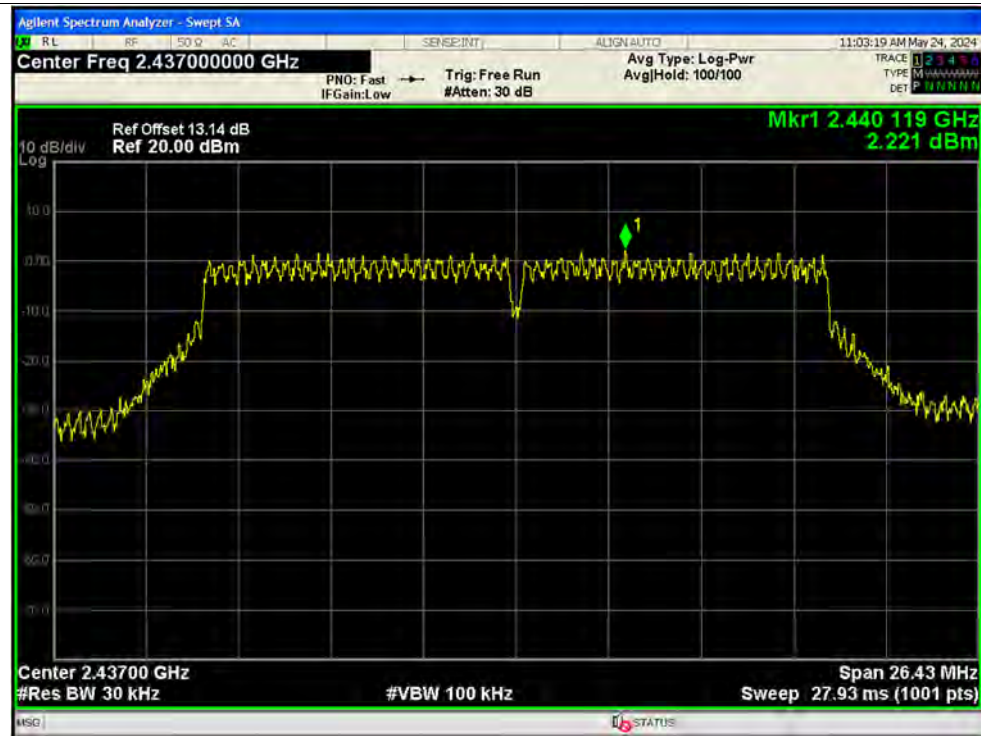
PSD NVNT n20 2462MHz Ant1



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

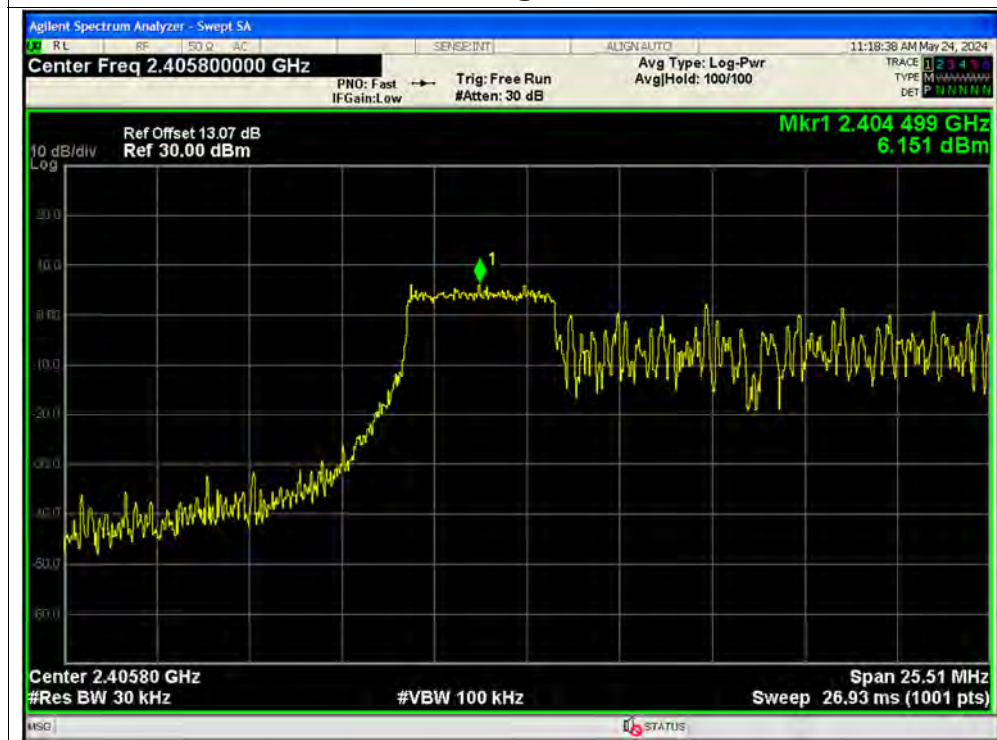


PSD NVNT ax20 26@8 2462MHz Ant2





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





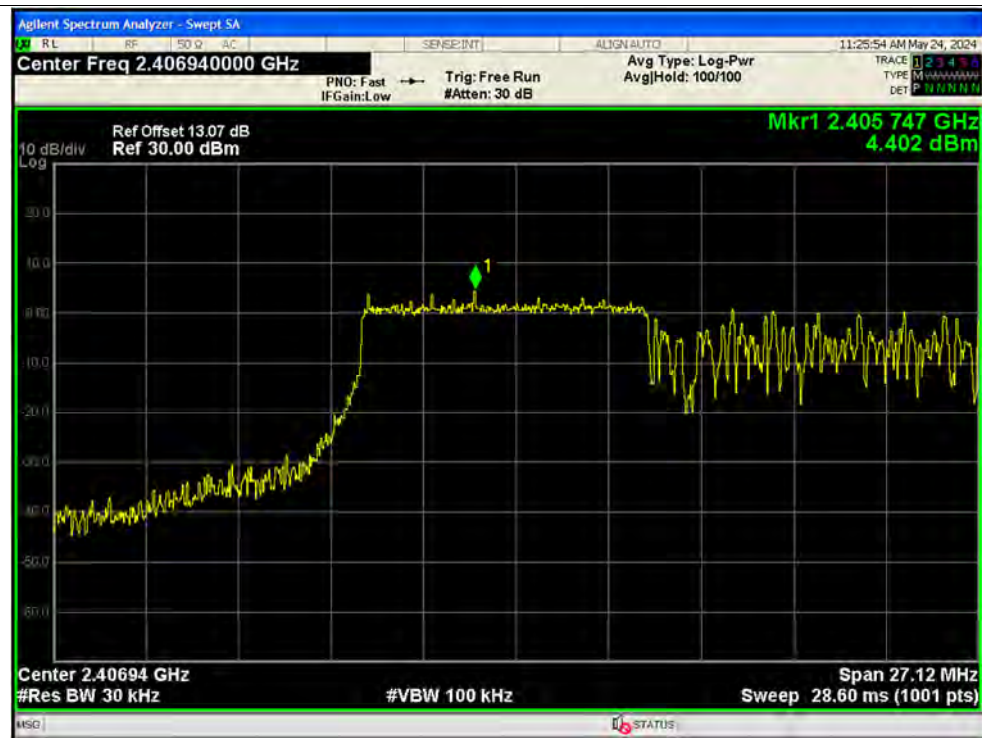
PSD NVNT ax20 52@40 2462MHz Ant1



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 + Test Plate + Adapter + RJ45 Cable + PC + BT TX

Test voltage: AC 120V/60Hz

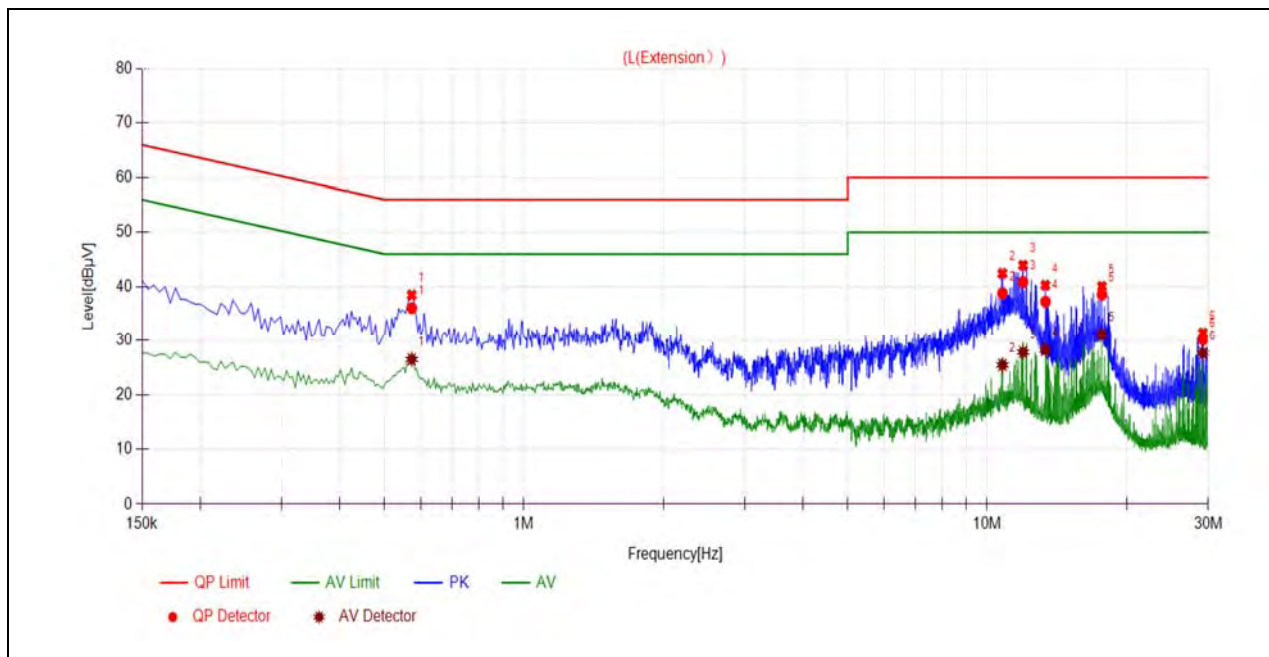
The measurement results are obtained as below:

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

U_R : Receiver Reading

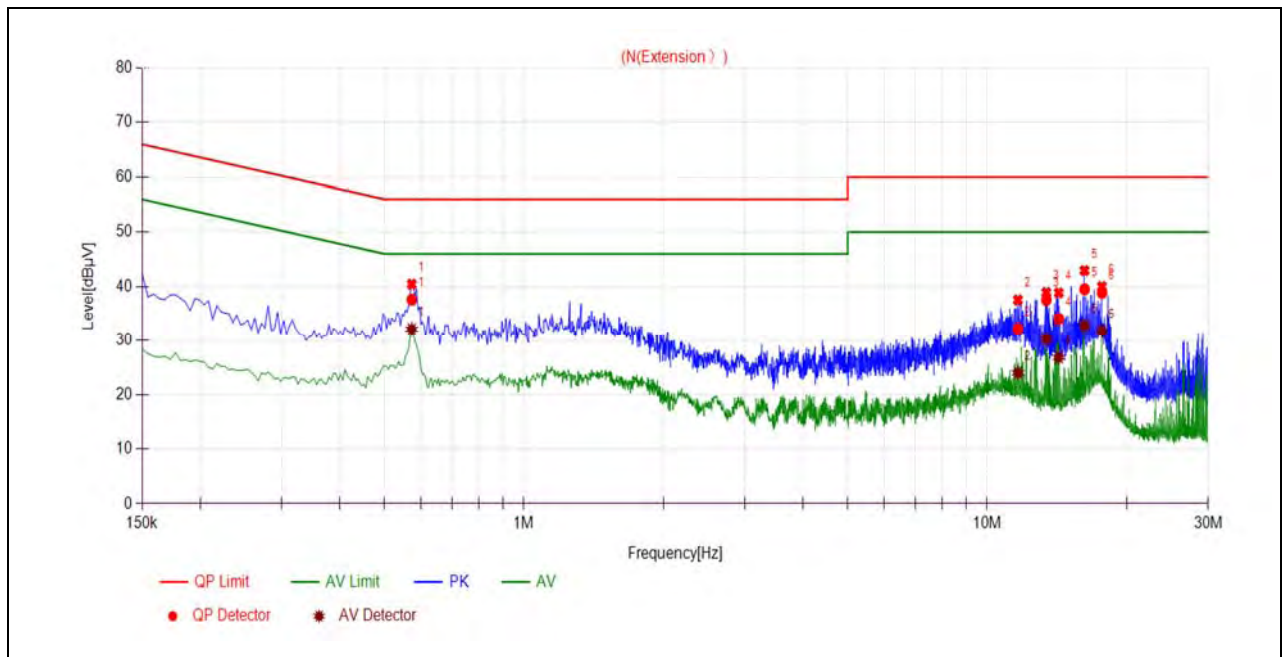
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.5730	36.03	26.48	56.00	46.00	Line	PASS
2	10.7934	38.81	25.44	60.00	50.00		PASS
3	11.9527	40.85	27.82	60.00	50.00		PASS
4	13.3586	37.24	28.22	60.00	50.00		PASS
5	17.6944	38.55	31.17	60.00	50.00		PASS
6	29.2344	30.15	27.63	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.5730	37.60	32.15	56.00	46.00	Neutral	PASS
2	11.6520	32.22	23.97	60.00	50.00		PASS
3	13.4196	37.56	30.25	60.00	50.00		PASS
4	14.2766	34.06	26.83	60.00	50.00		PASS
5	16.2288	39.51	32.81	60.00	50.00		PASS
6	17.6938	38.84	31.80	60.00	50.00		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

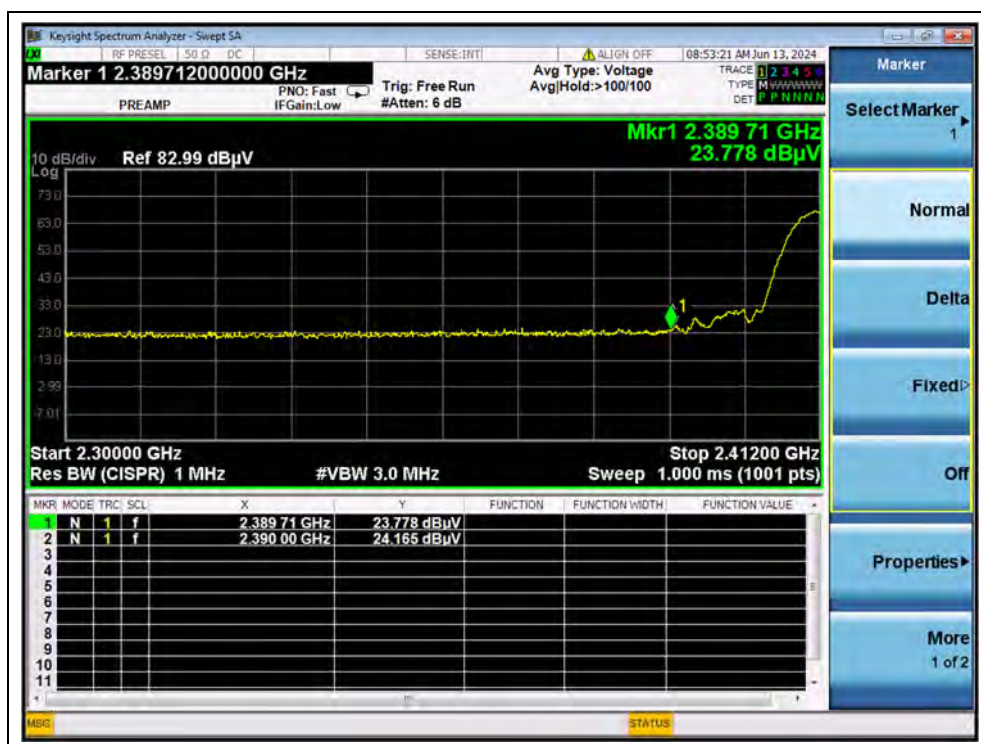
A_{Factor} : Antenna Factor at 3m

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.

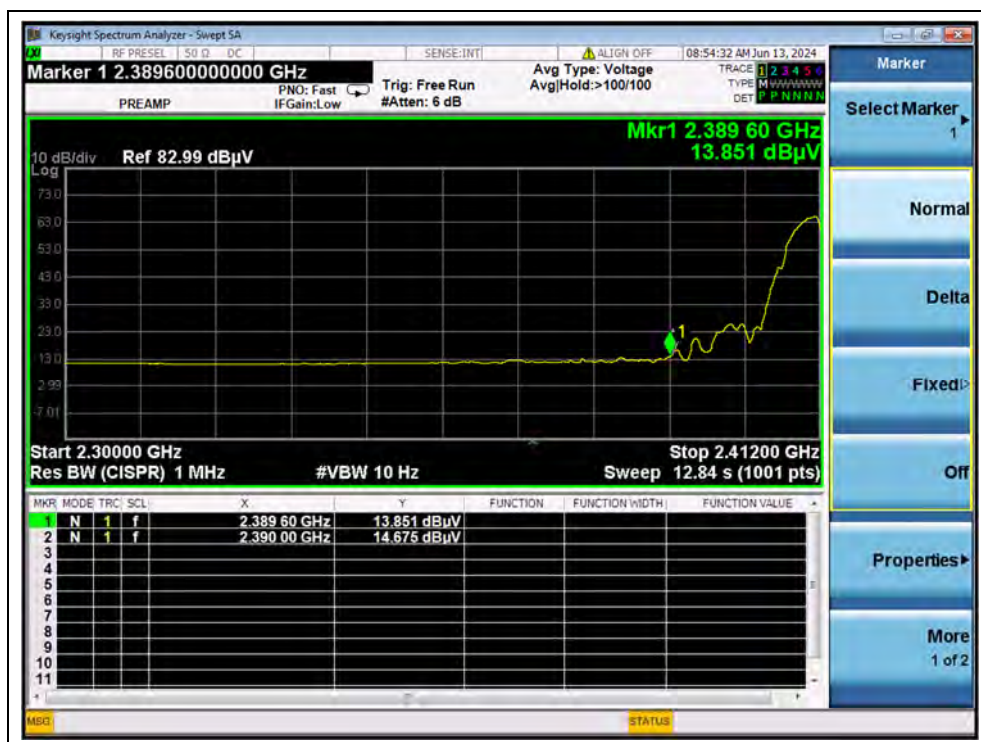
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11b Mode

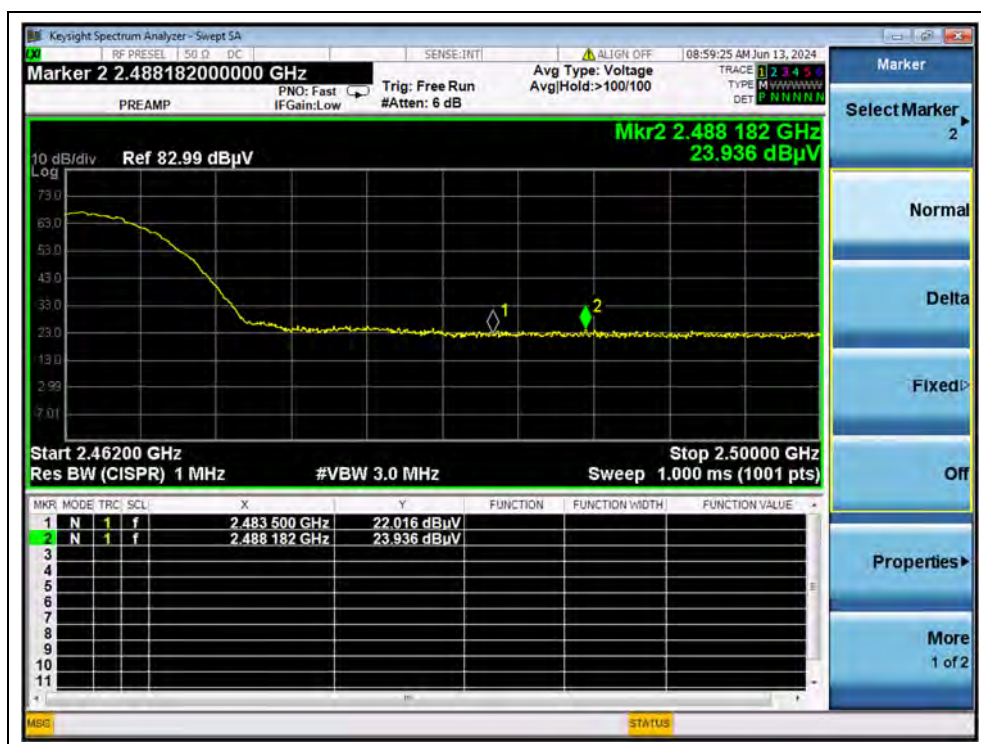
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2390.00	PK	24.17	6.74	27.20	58.11	74	PASS
1	2390.00	AV	14.68	6.74	27.20	48.62	54	PASS
11	2488.19	PK	23.94	6.74	27.20	57.88	74	PASS
11	2483.50	AV	11.86	6.74	27.20	45.80	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



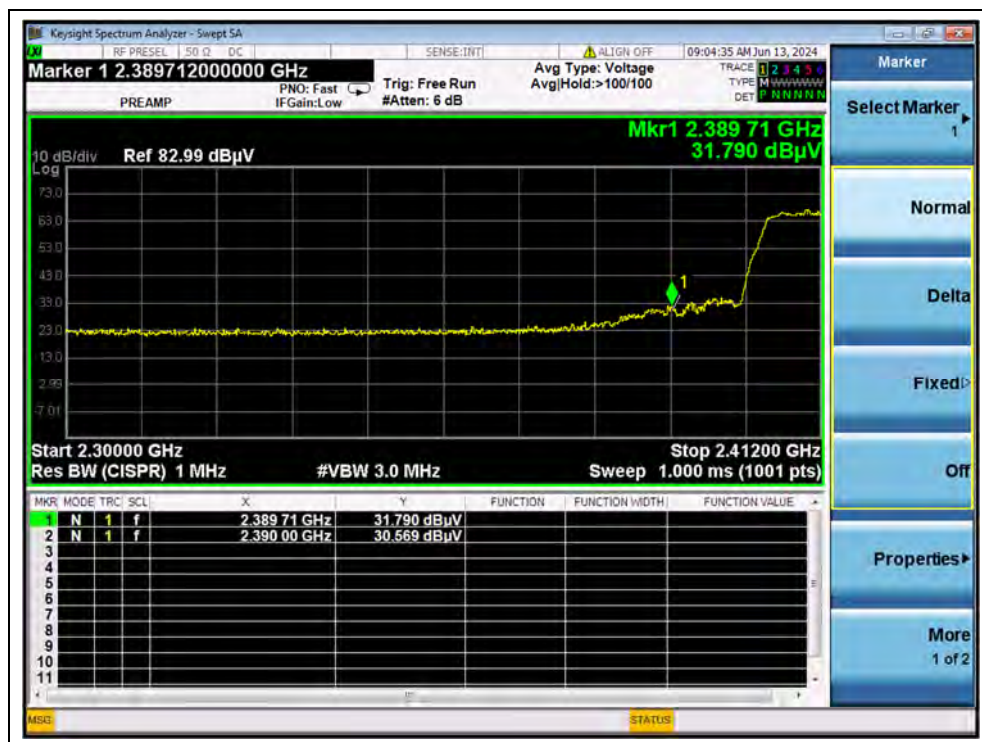
(PEAK, Channel 11, 802.11b)



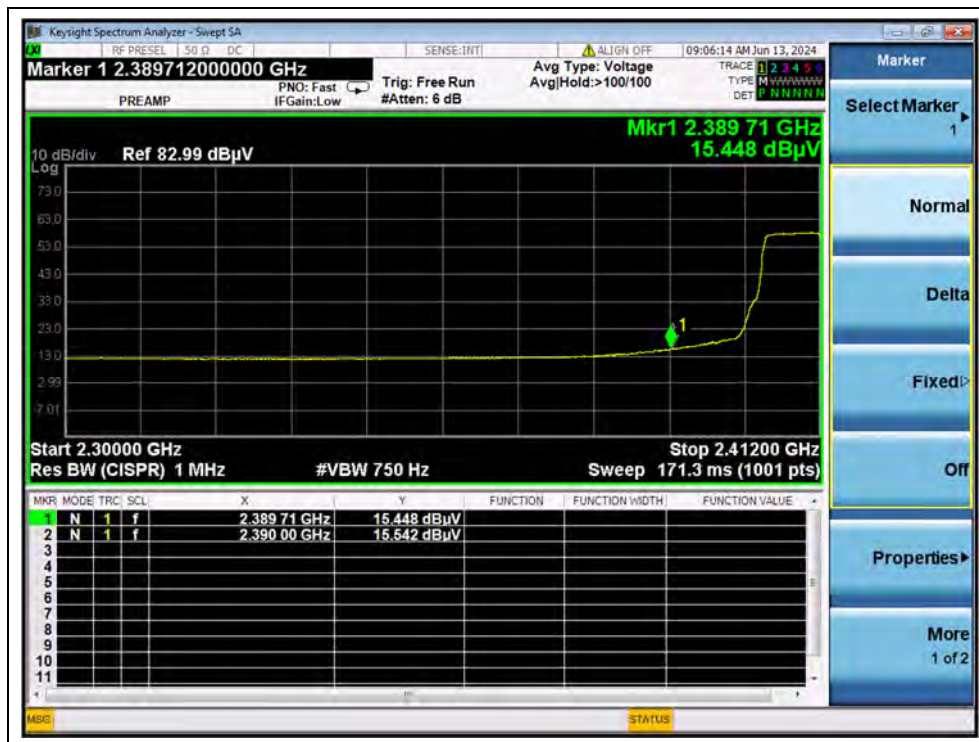
(AVERAGE, Channel 11, 802.11b)

**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	2389.71	PK	31.79	6.74	27.20	65.73	74	PASS
1	2390.00	AV	15.54	6.74	27.20	49.48	54	PASS
11	2483.50	PK	29.79	6.74	27.20	63.73	74	PASS
11	2483.50	AV	15.17	6.74	27.20	49.11	54	PASS



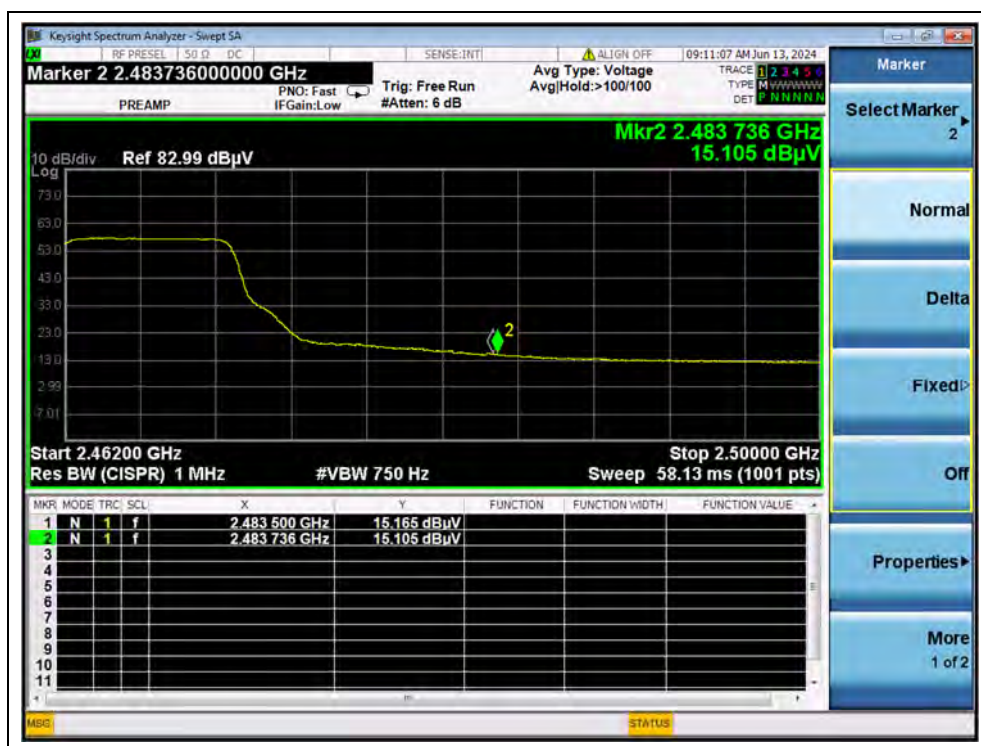
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



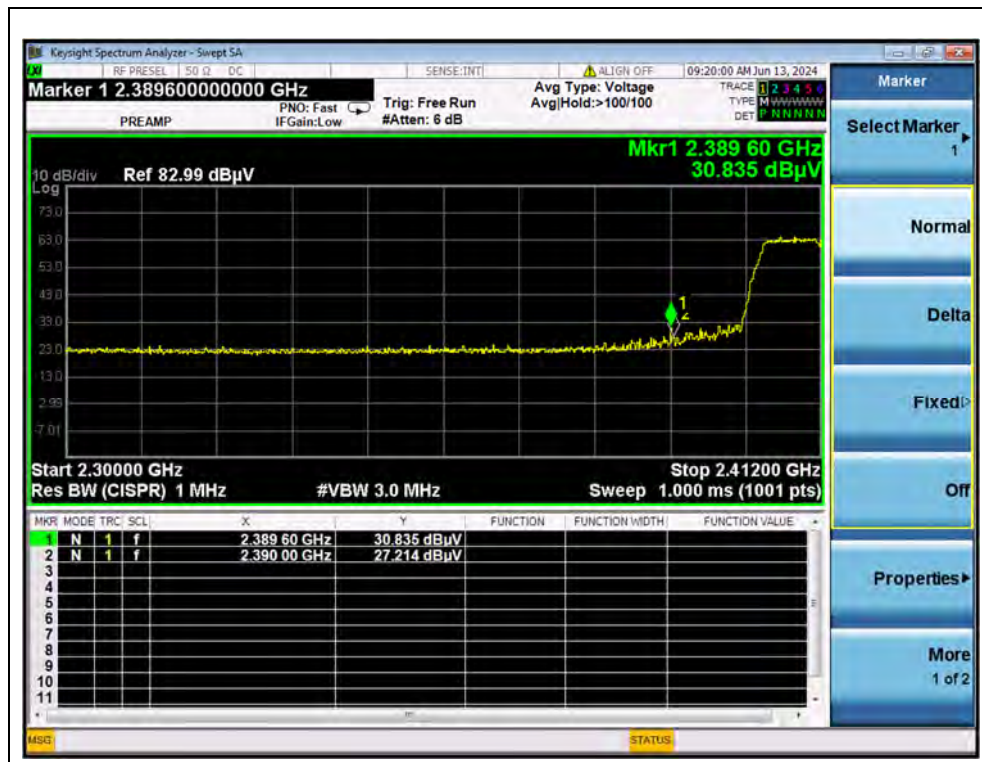
(PEAK, Channel 11, 802.11g)



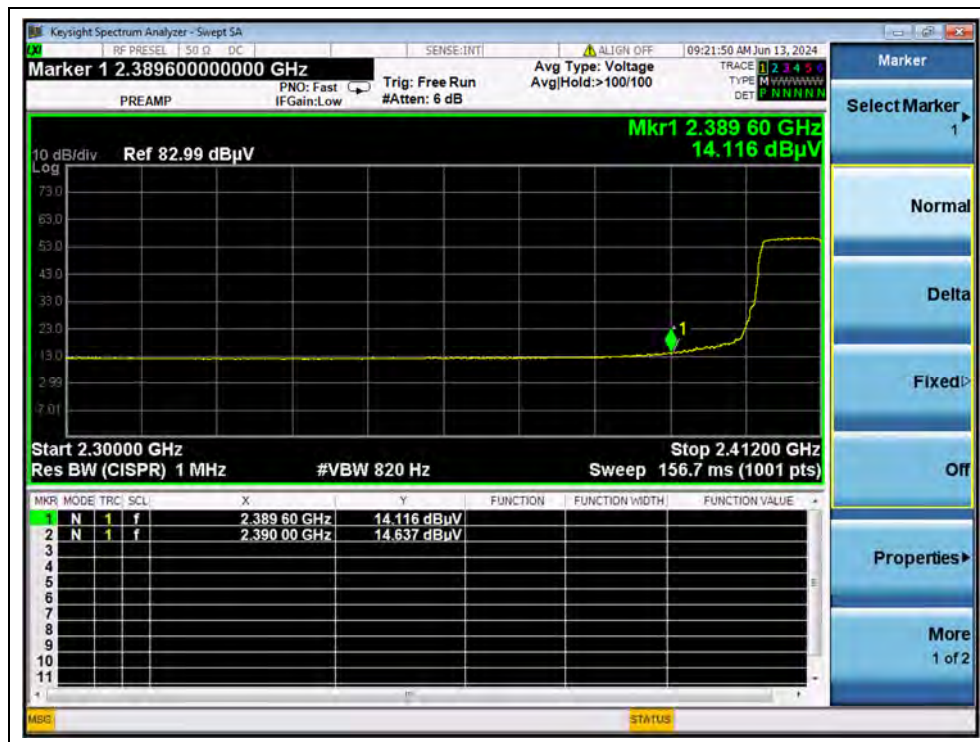
(AVERAGE, Channel 11, 802.11g)

**802.11n (HT20) Mode**

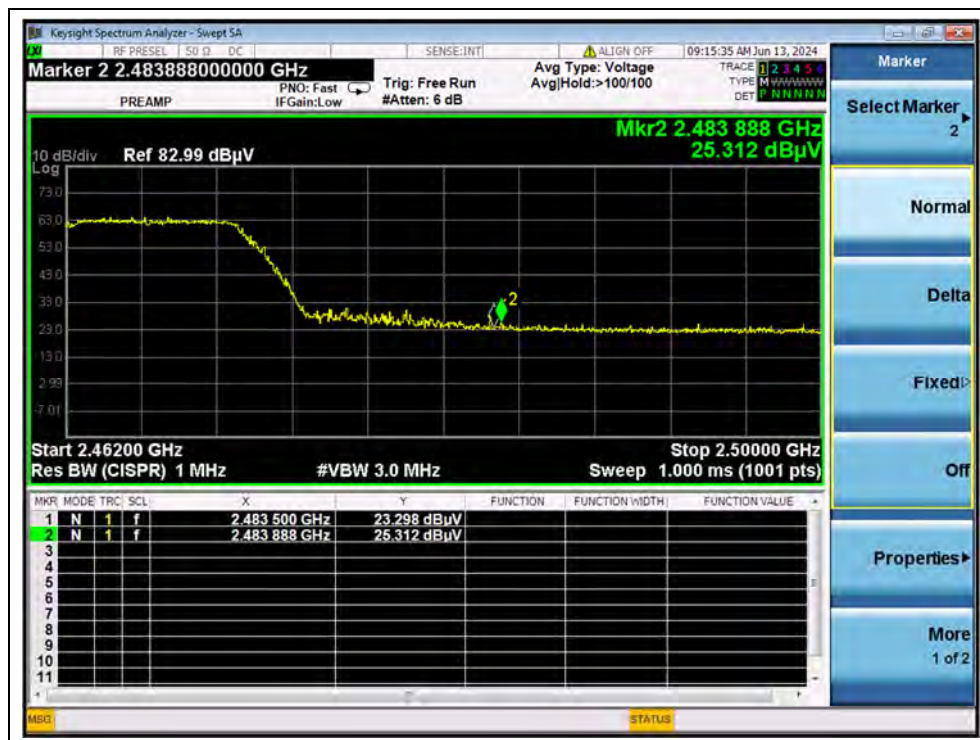
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2389.60	PK	30.84	6.74	27.20	64.78	74	PASS
1	2390.00	AV	14.64	6.74	27.20	48.58	54	PASS
11	2483.89	PK	25.31	6.74	27.20	59.25	74	PASS
11	2483.50	AV	14.26	6.74	27.20	48.20	54	PASS



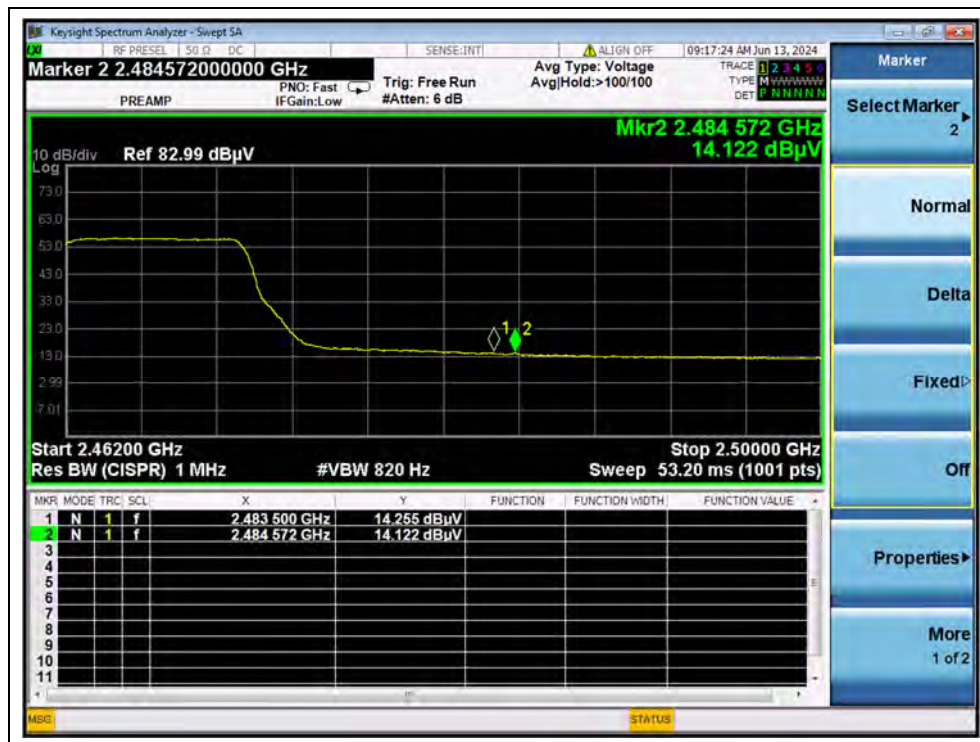
(PEAK, Channel 1, 802.11n (HT20))



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



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



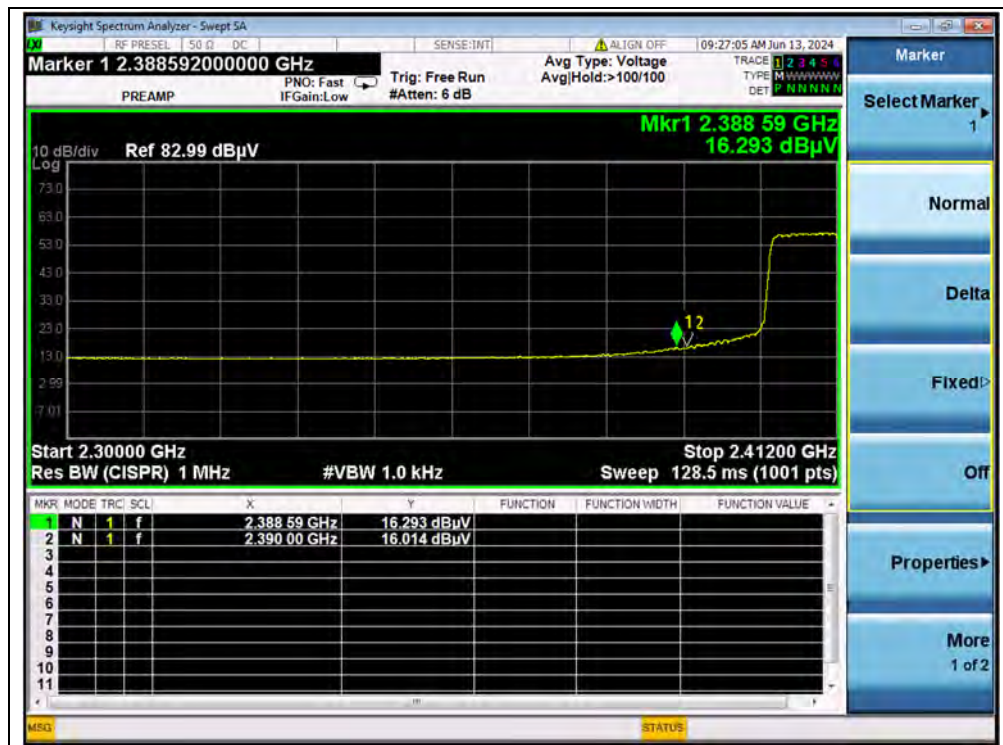
(AVERAGE, Channel 11, 802.11n (HT20))

**802.11ax (HEW20) Mode**

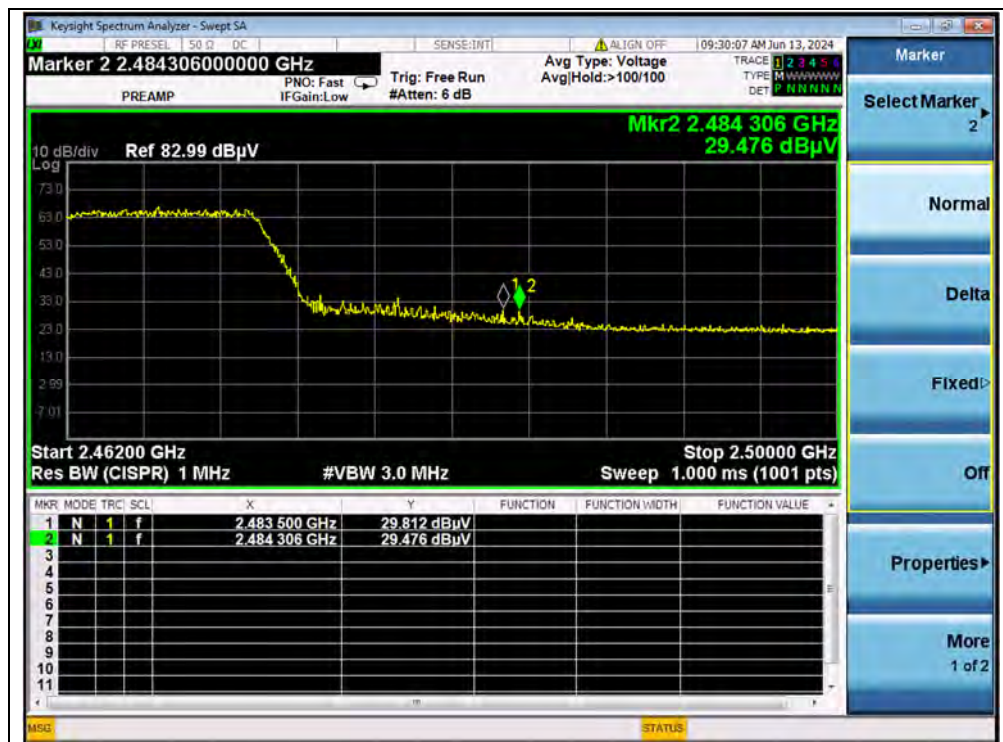
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2390.00	PK	29.53	6.74	27.20	63.47	74	PASS
1	2388.59	AV	16.29	6.74	27.20	50.23	54	PASS
11	2483.50	PK	29.81	6.74	27.20	63.75	74	PASS
11	2483.70	AV	15.36	6.74	27.20	49.30	54	PASS



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



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



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

**802.11ax (HEW20) RU26 Mode**

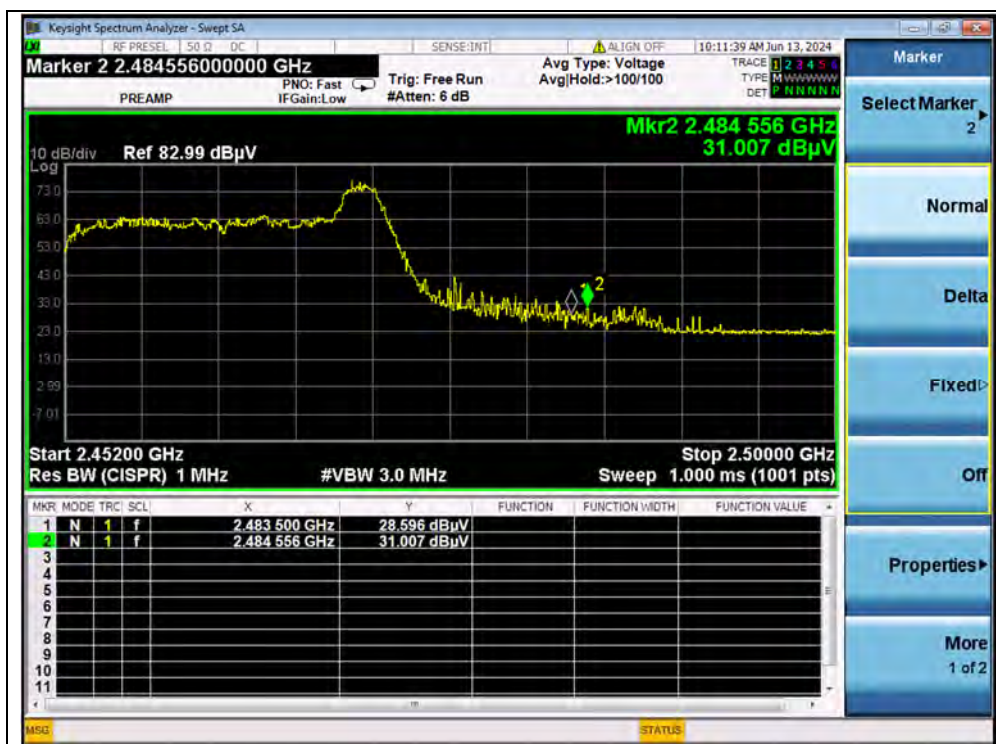
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2386.86	PK	29.56	6.74	27.20	63.50	74	PASS
1	2387.23	AV	13.54	6.74	27.20	47.48	54	PASS
11	2484.56	PK	31.01	6.74	27.20	64.95	74	PASS
11	2483.50	AV	12.70	6.74	27.20	46.64	54	PASS



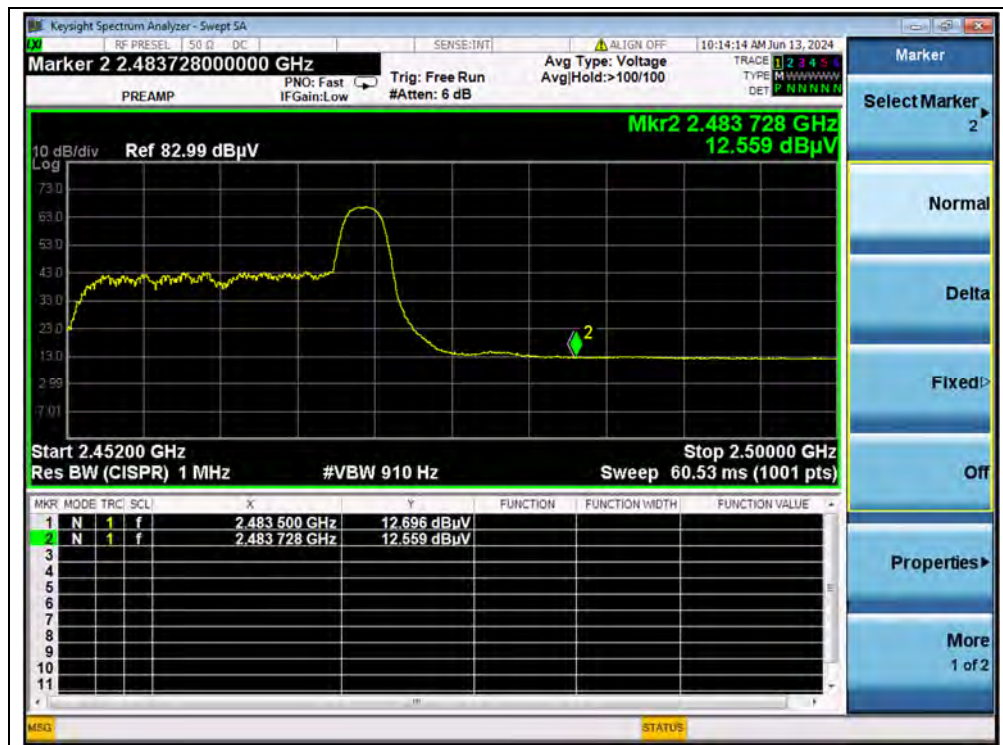
(PEAK, Channel 1, 802.11ax (HEW20) RU26)



(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.

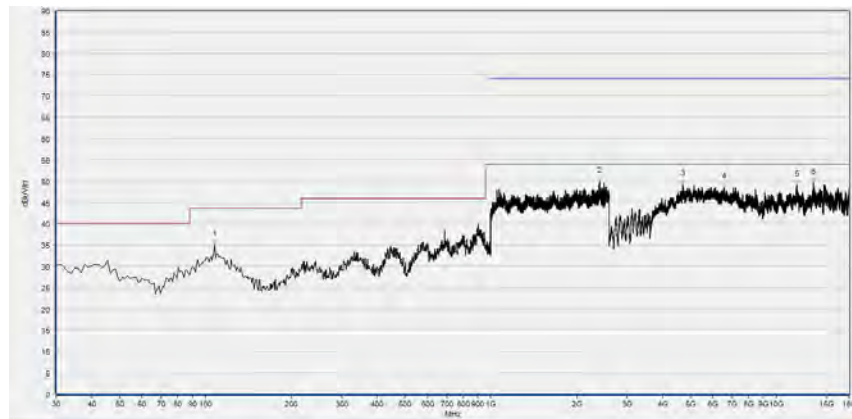
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dB μ V/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dB μ V/m)	Antenna Polarity
2410.40	60.67	27.20	6.74	94.61	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).

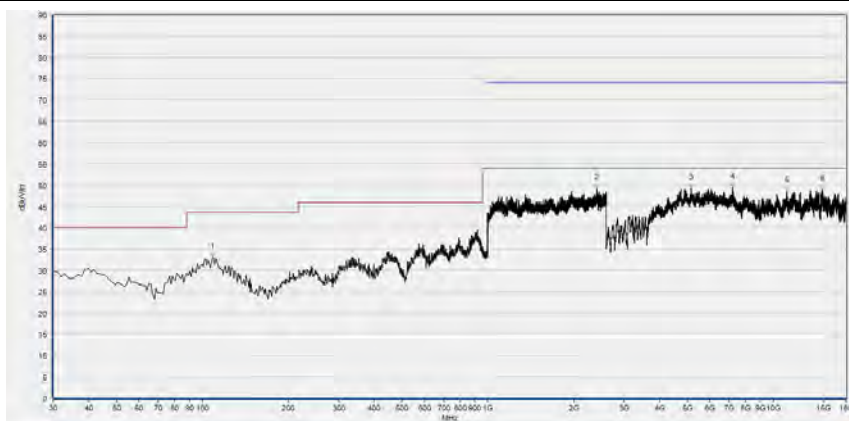
**802.11b Mode**

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
107.600	35.05	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2410.667	49.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4709.800	49.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6563.960	48.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11818.440	49.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13475.480	49.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

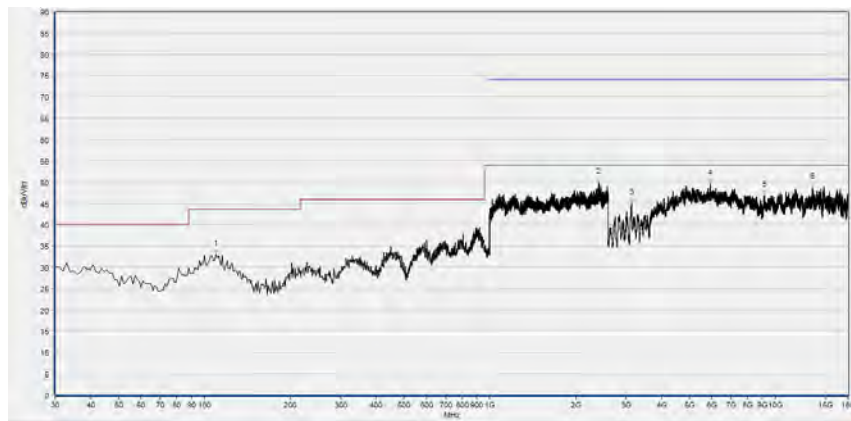


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2409.600	49.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5168.720	49.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7189.200	49.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11140.840	48.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14870.720	48.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

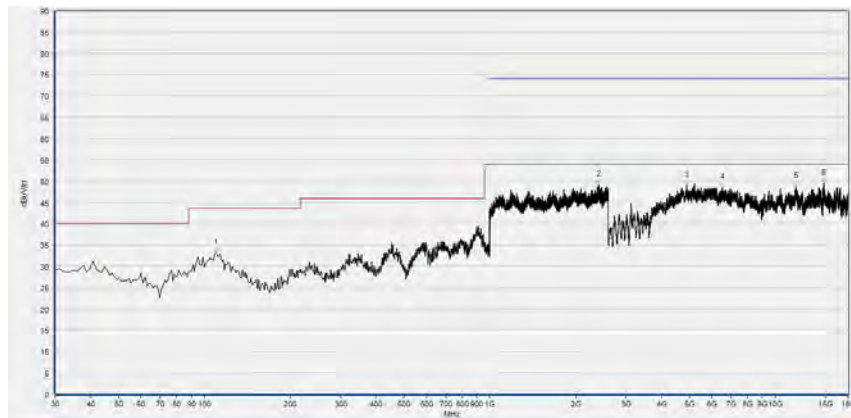


Plot for Channel 6



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
109.540	33.04	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2415.467	49.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3135.920	45.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5929.480	49.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9172.720	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13500.120	48.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

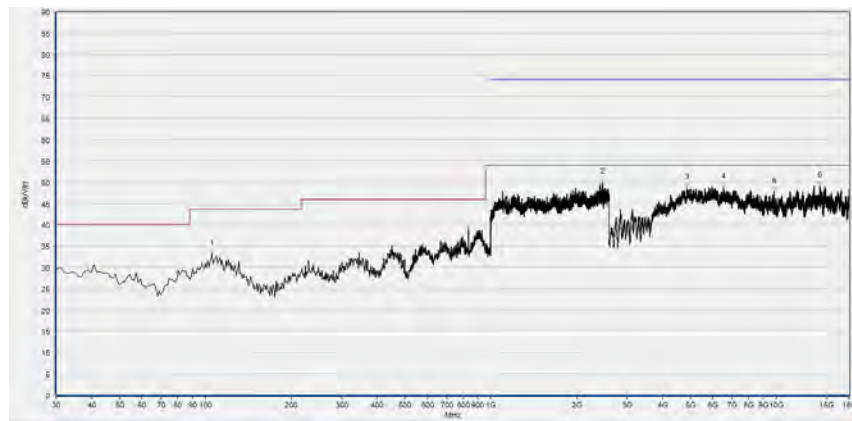


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	33.19	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2411.200	49.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4903.840	48.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6533.160	48.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11793.800	48.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14775.240	49.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

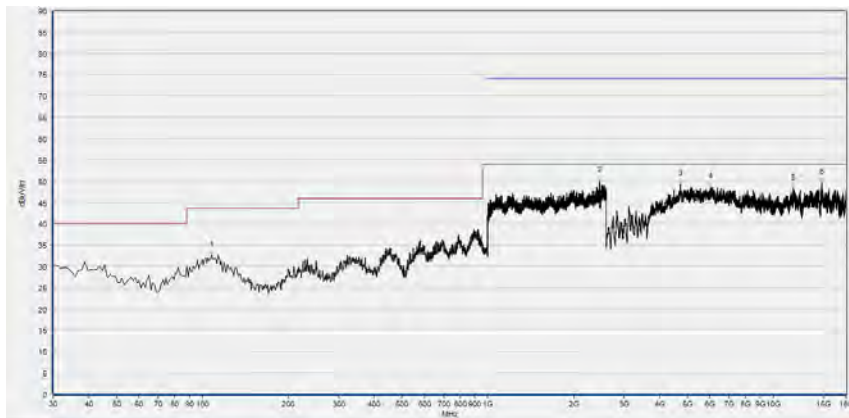


Plot for Channel 11



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
105.660	33.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2463.467	50.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4873.040	48.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6545.480	48.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9804.120	47.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14177.720	49.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

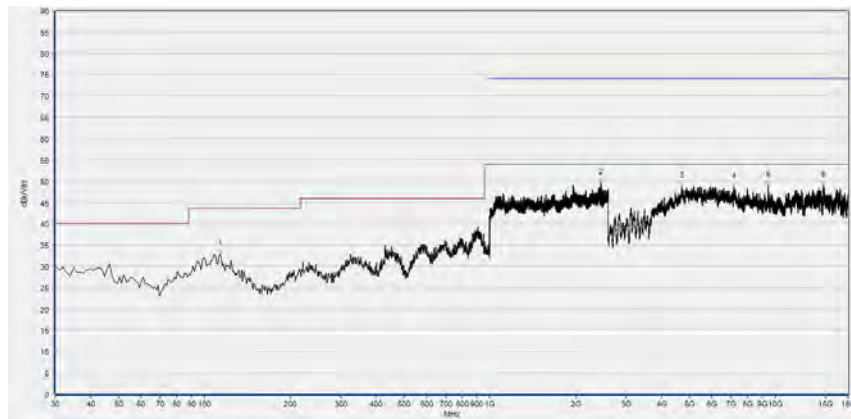


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2463.467	50.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4731.360	49.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6037.280	48.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11766.080	48.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14766.000	49.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

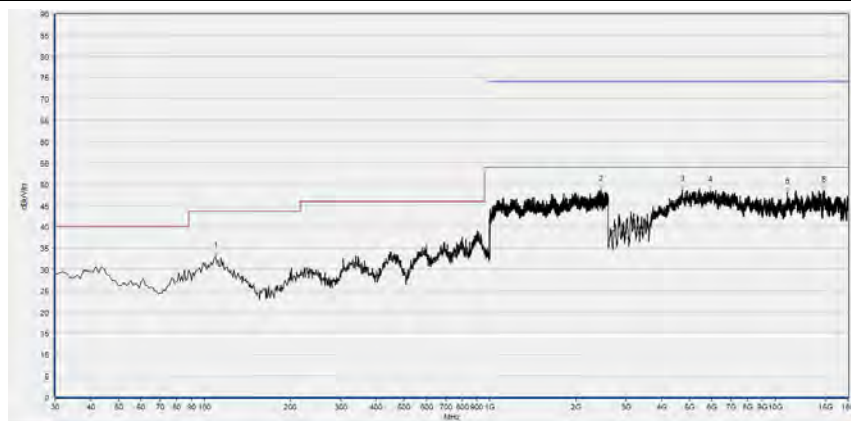
**802.11g Mode**

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
113.420	32.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2455.467	49.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4697.480	48.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7176.880	48.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9465.320	48.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14753.680	48.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

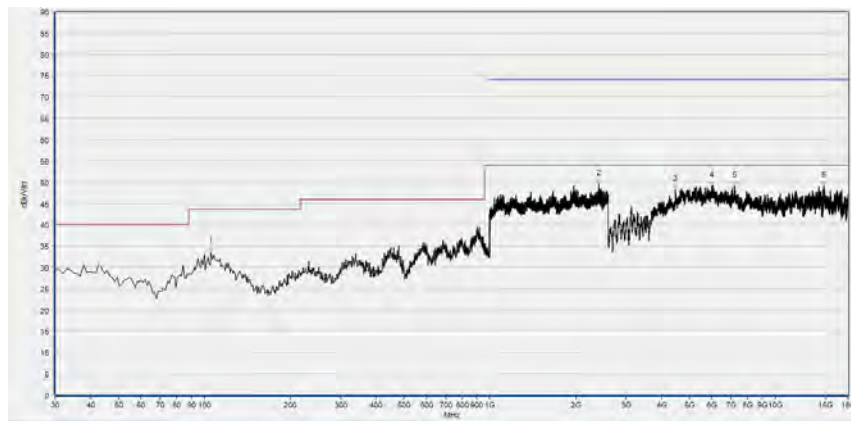


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	33.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2448.000	48.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4715.960	48.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5904.840	48.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10999.160	48.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14756.760	48.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

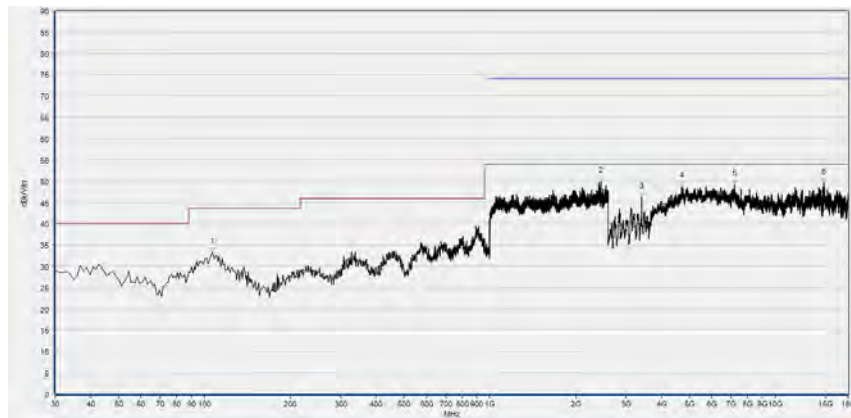


Plot for Channel 6



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
105.660	33.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2408.000	49.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4472.640	48.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6003.400	49.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7210.760	49.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14818.360	49.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

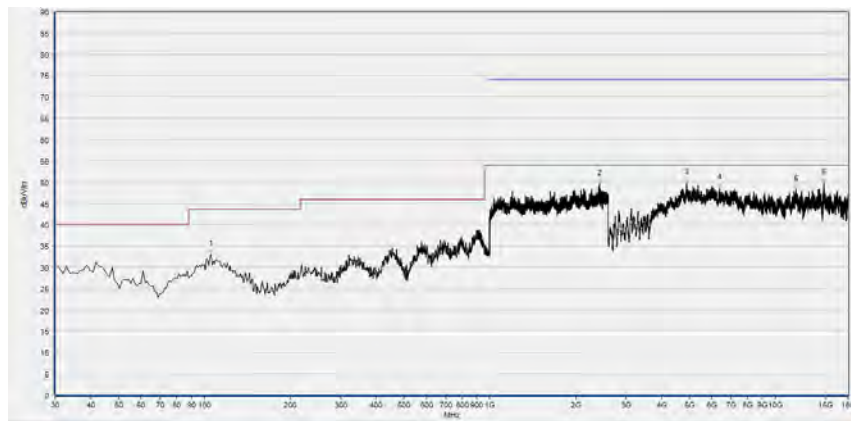


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	33.41	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2444.267	49.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3400.800	46.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4697.480	48.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7192.280	49.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14830.680	49.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

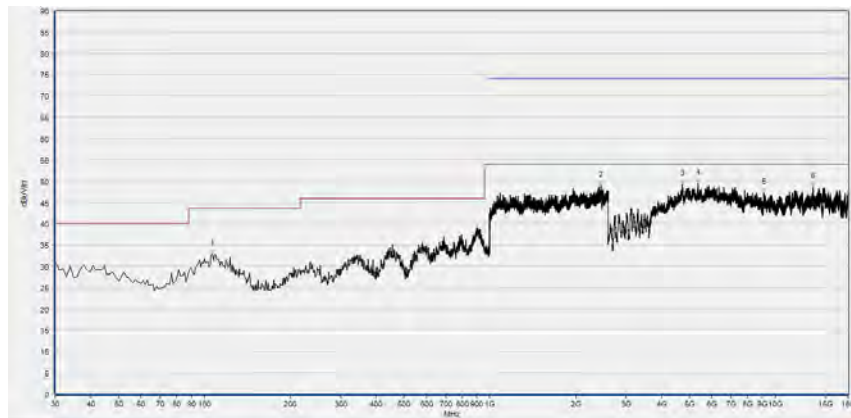


Plot for Channel 11



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
105.660	32.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2418.133	49.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4885.360	49.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6366.840	48.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11796.880	48.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14830.680	49.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

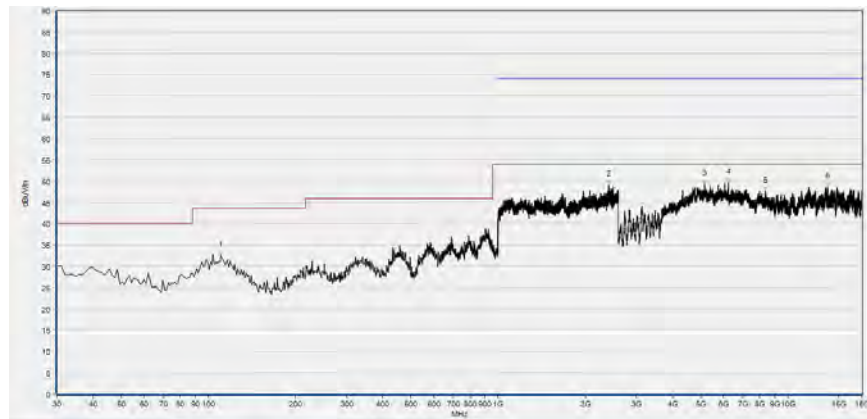


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2452.267	48.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4731.360	49.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5368.920	49.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9104.960	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13586.360	48.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

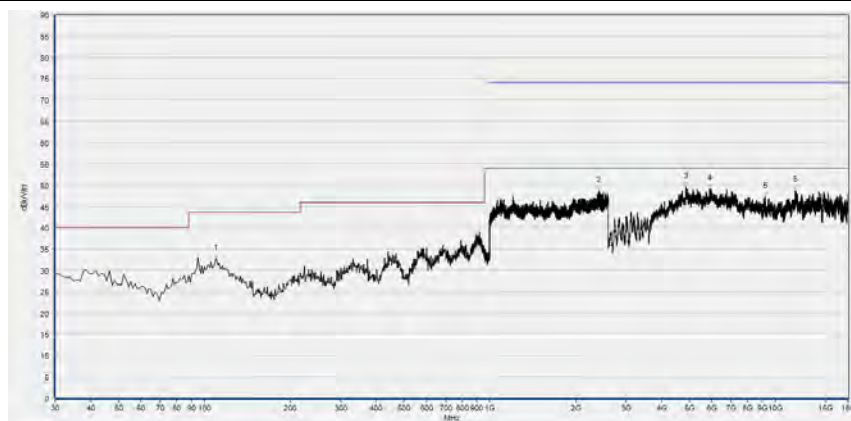
**802.11n (HT20) Mode**

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
110.510	32.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2404.800	49.17	N/A	41.55	74.00	N/A	54.00	Horizontal	PASS
5168.720	49.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6215.920	49.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8347.280	47.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13691.080	48.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

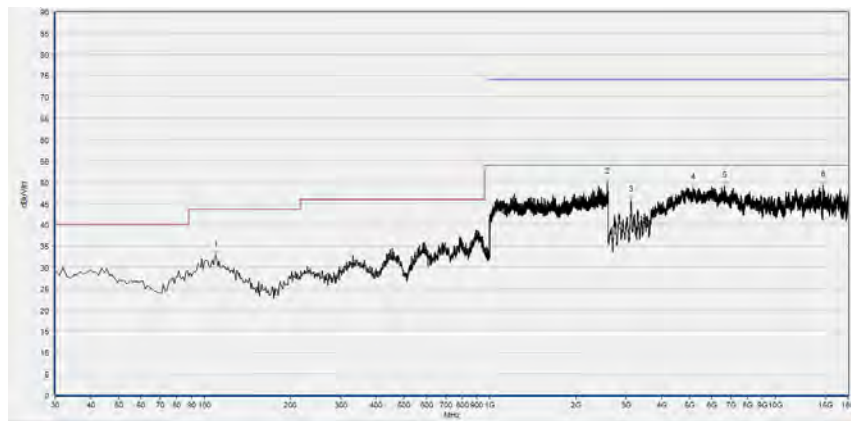
(Antenna Horizontal, 30MHz to 18GHz)



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	32.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2407.467	48.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4857.640	49.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5889.440	49.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9218.920	47.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11775.320	48.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

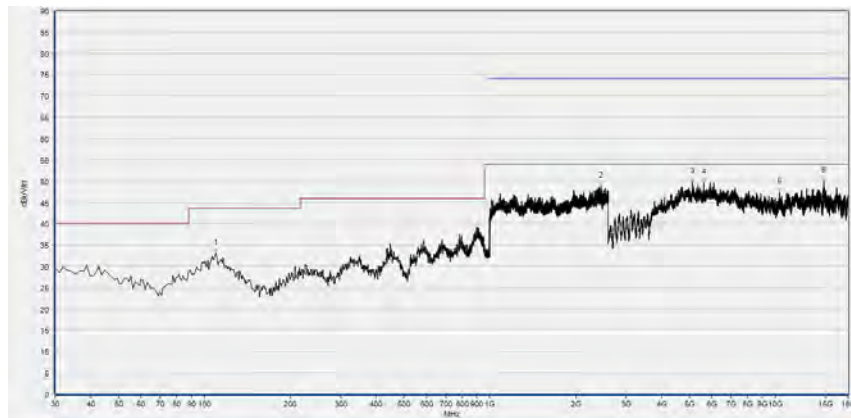
(Antenna Vertical, 30MHz to 18GHz)

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
109.540	32.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2579.200	49.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3129.760	45.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5165.640	48.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6653.280	49.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14750.600	49.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

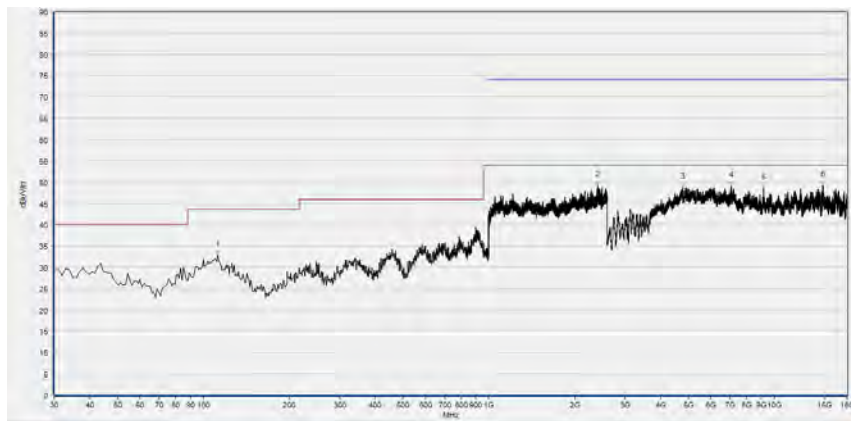


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2456.000	48.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5119.440	49.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5606.080	49.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10352.360	47.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14778.320	49.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

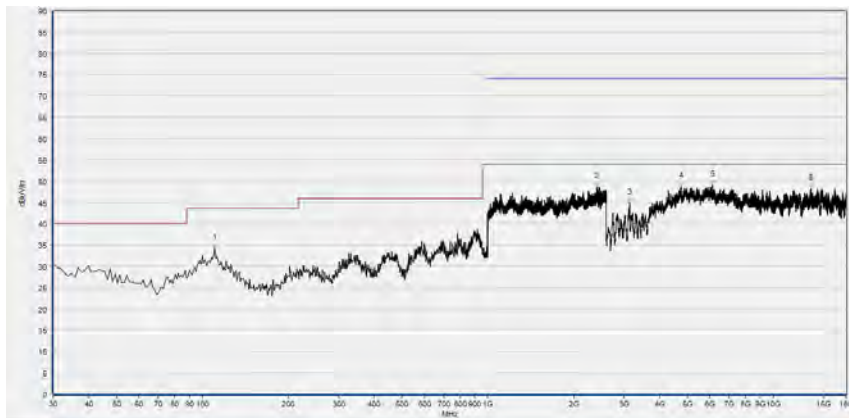


Plot for Channel 11



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
2411.200	49.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4771.400	48.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7062.920	49.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9188.120	48.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14802.960	49.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

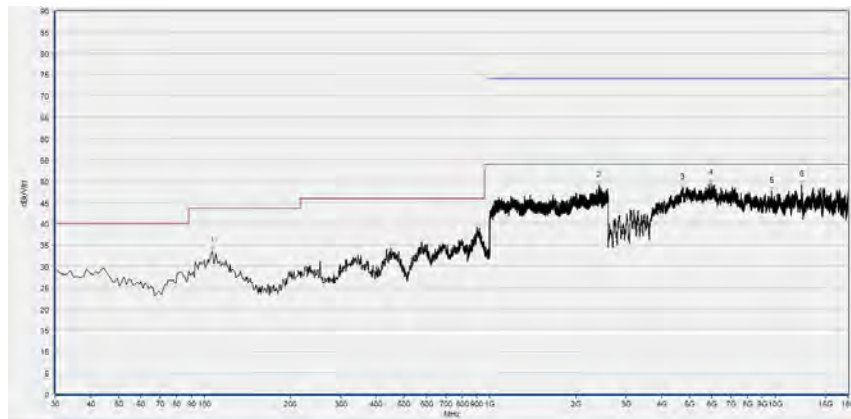


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	34.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2411.200	48.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3139.000	44.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4759.080	48.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6132.760	49.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13570.960	48.29	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
106.630	33.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2411.200	48.88	N/A	38.15	74.00	N/A	54.00	Horizontal	PASS
4740.600	48.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5969.520	49.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9739.440	47.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12366.680	49.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

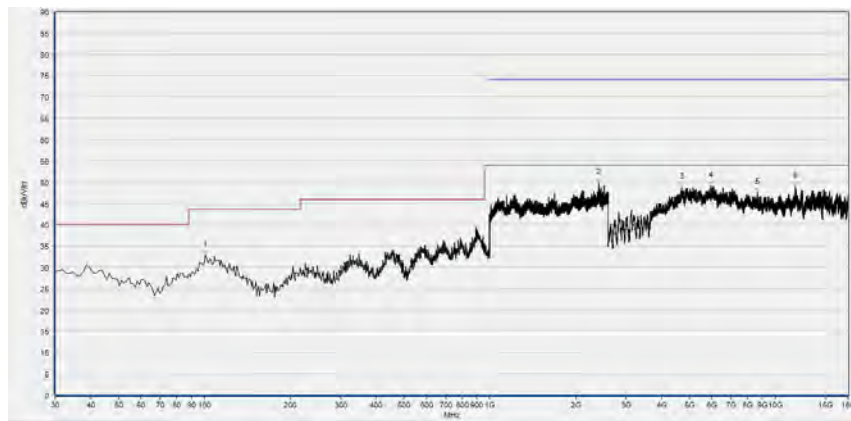


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	32.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2411.200	48.91	N/A	40.79	74.00	N/A	54.00	Vertical	PASS
4709.800	49.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5849.400	49.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9185.040	46.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
15517.520	48.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

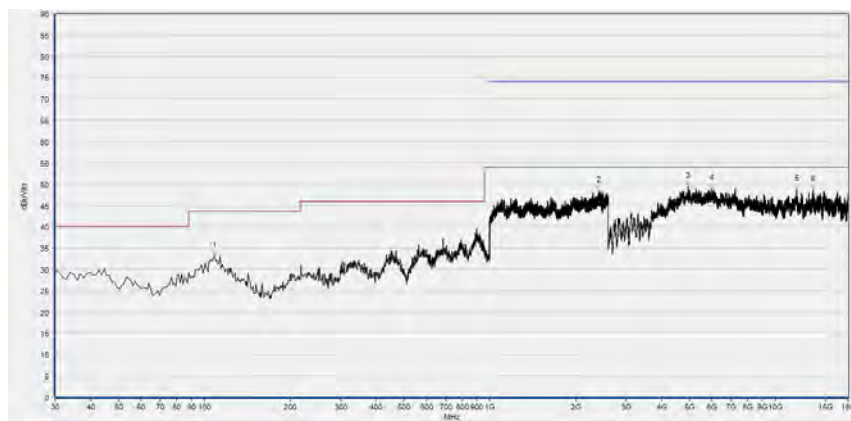


Plot for Channel 6



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
100.810	32.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2406.933	49.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4706.720	48.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5966.440	49.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8639.880	47.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11772.240	48.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

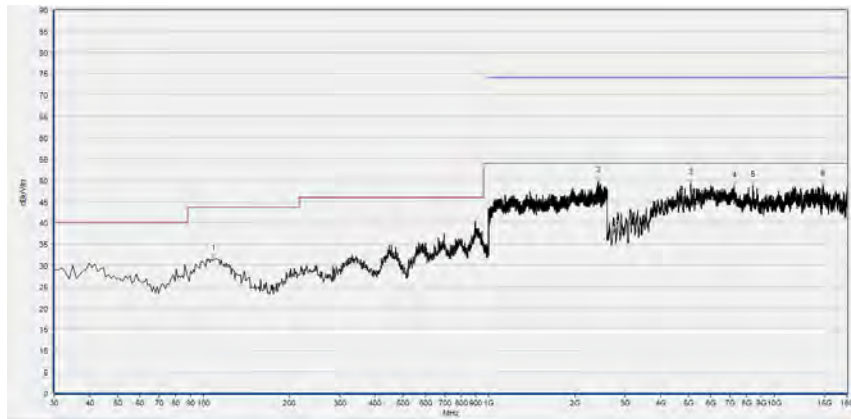


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	33.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2415.467	48.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4950.040	49.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5981.840	49.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11864.640	48.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13583.280	48.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

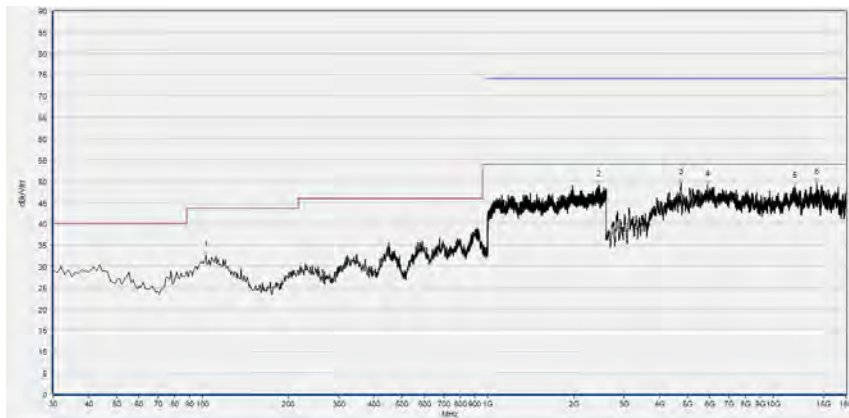


Plot for Channel 11



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
108.570	31.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2418.133	49.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5097.880	49.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7235.400	48.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	48.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14793.720	48.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

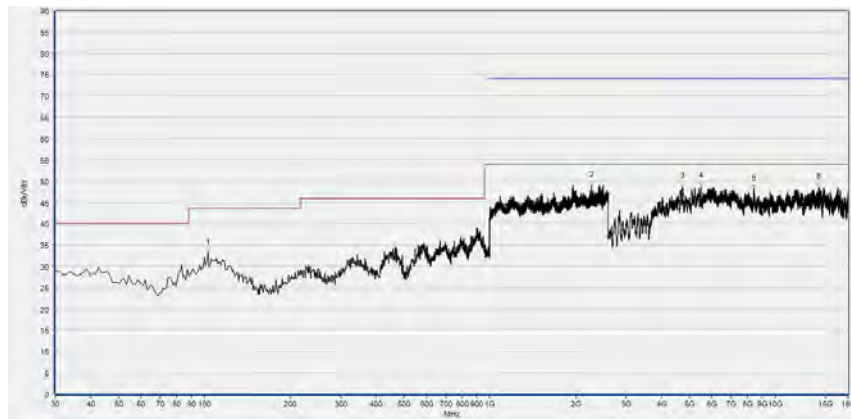


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	32.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2449.600	49.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4746.760	49.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5886.360	49.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11901.600	48.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14230.080	49.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

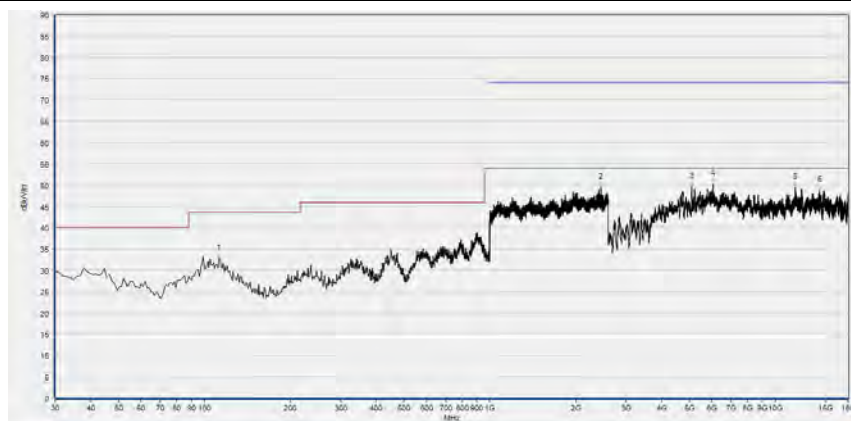
**802.11ax (HEW20) RU26 Mode**

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
102.750	33.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2278.933	48.92	N/A	36.67	74.00	N/A	54.00	Horizontal	PASS
4731.360	48.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5476.720	48.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	48.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14214.680	48.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

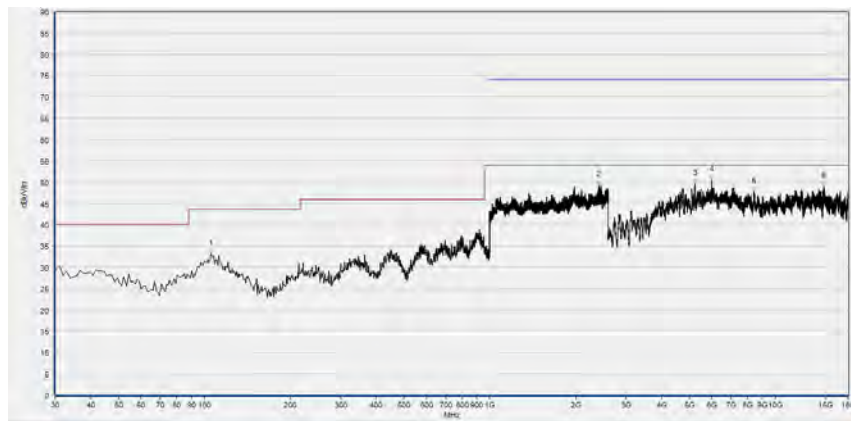


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
112.450	32.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2454.400	49.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5104.040	49.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6052.680	50.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11781.480	49.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14270.120	48.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

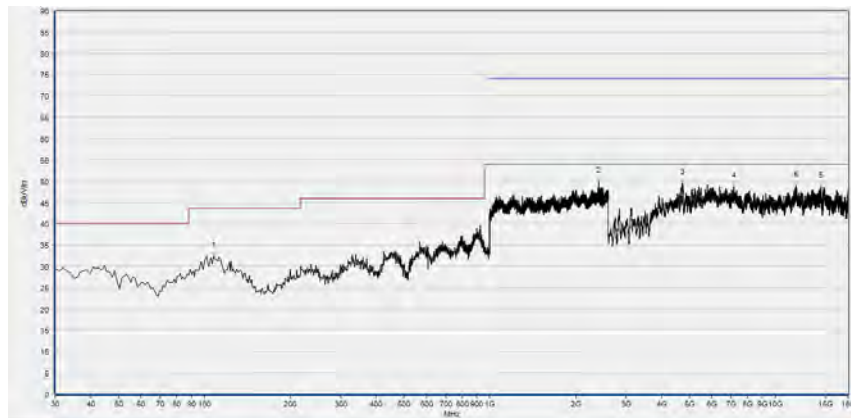


Plot for Channel 6



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
105.660	33.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2411.200	49.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5230.320	49.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5991.080	50.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8424.280	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14802.960	48.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

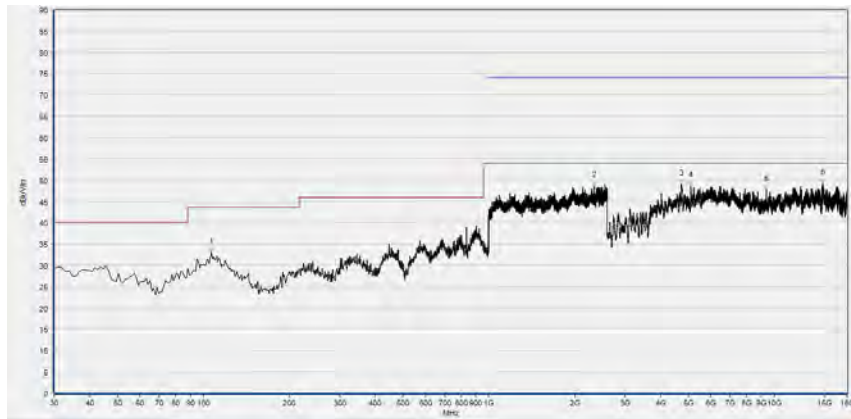


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2414.400	49.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	49.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7170.720	48.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11803.040	48.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14442.600	48.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

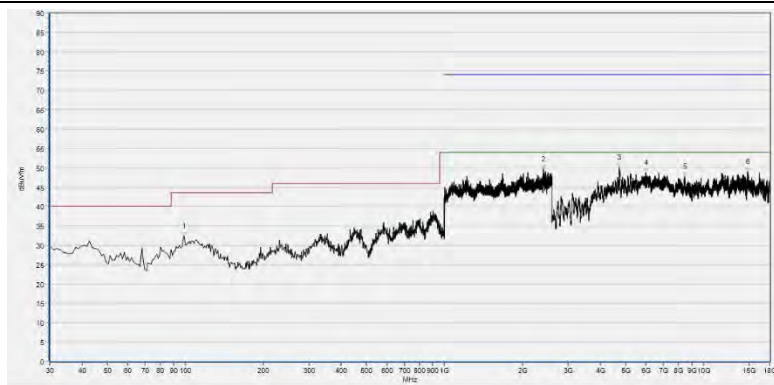


Plot for Channel 11



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	33.02	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2346.133	48.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4731.360	49.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5104.040	48.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9366.760	47.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14790.640	49.21	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
98.870	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2412.267	49.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	50.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5997.240	48.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8452.000	47.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14836.840	49.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT