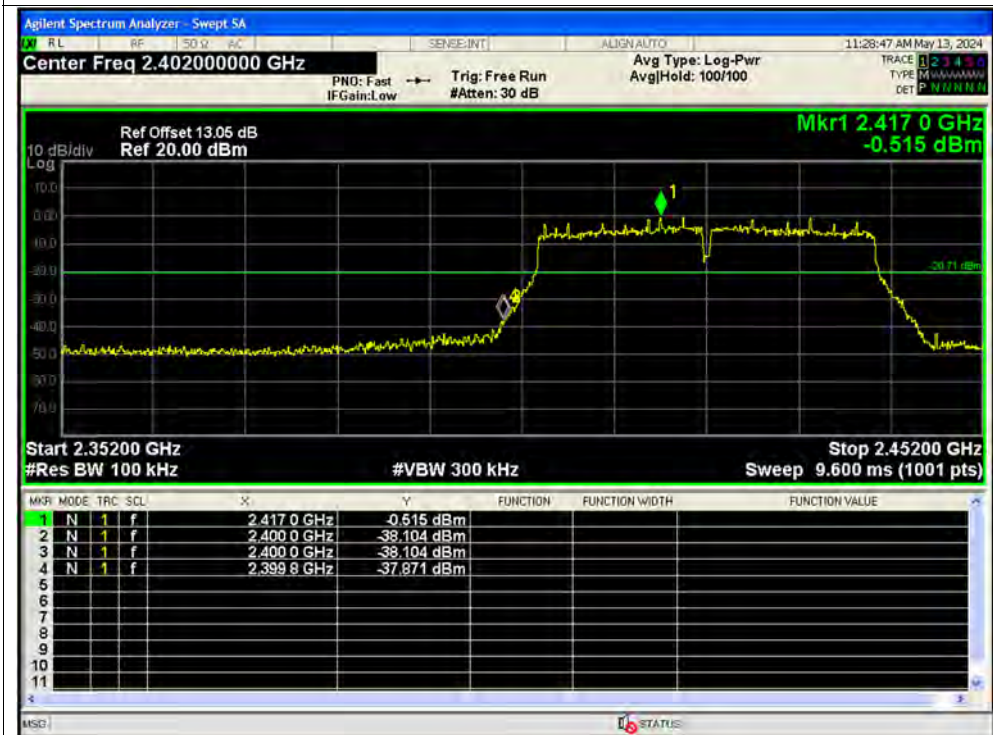




Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

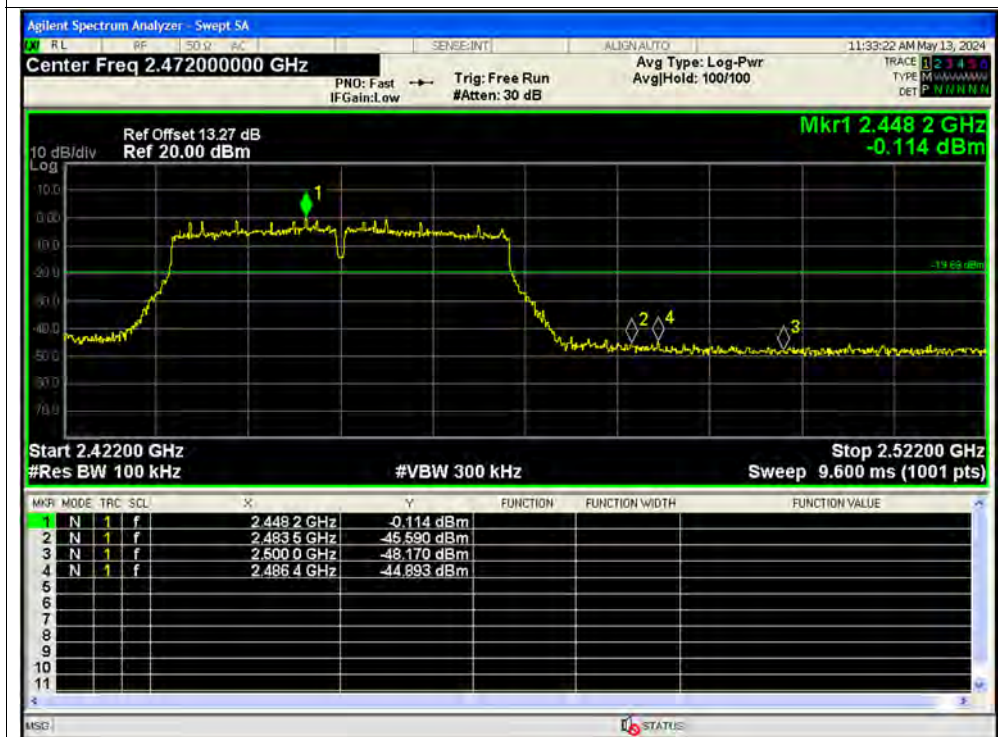




Band Edge NVNT n40 2452MHz Ant1 Ref

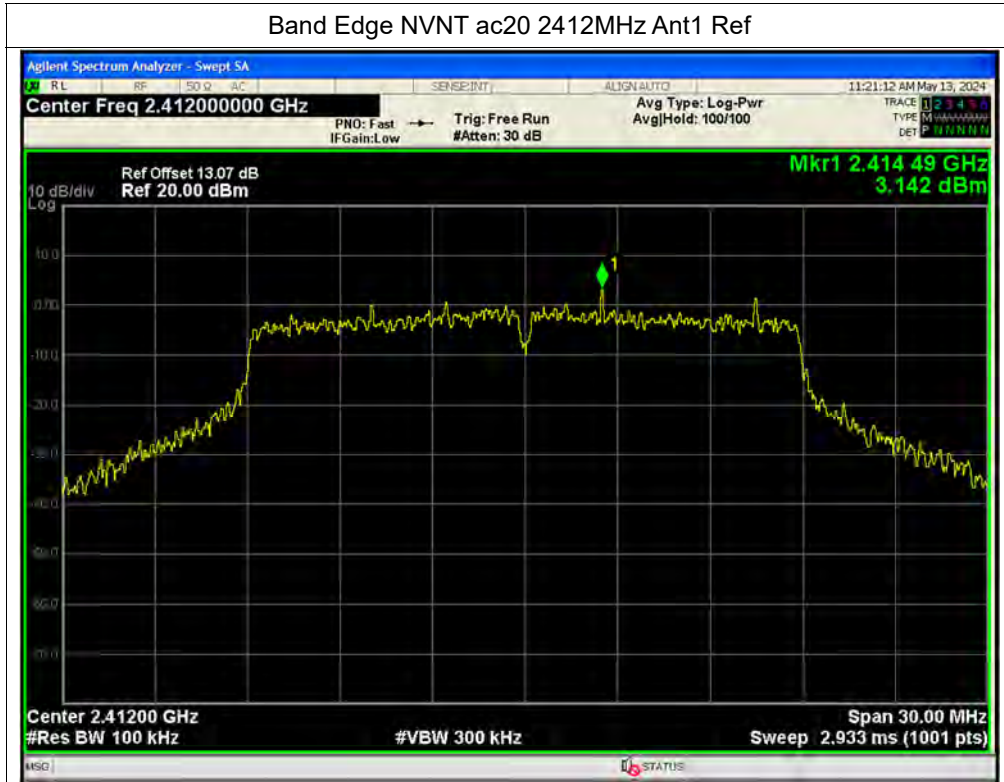


Band Edge NVNT n40 2452MHz Ant1 Emission

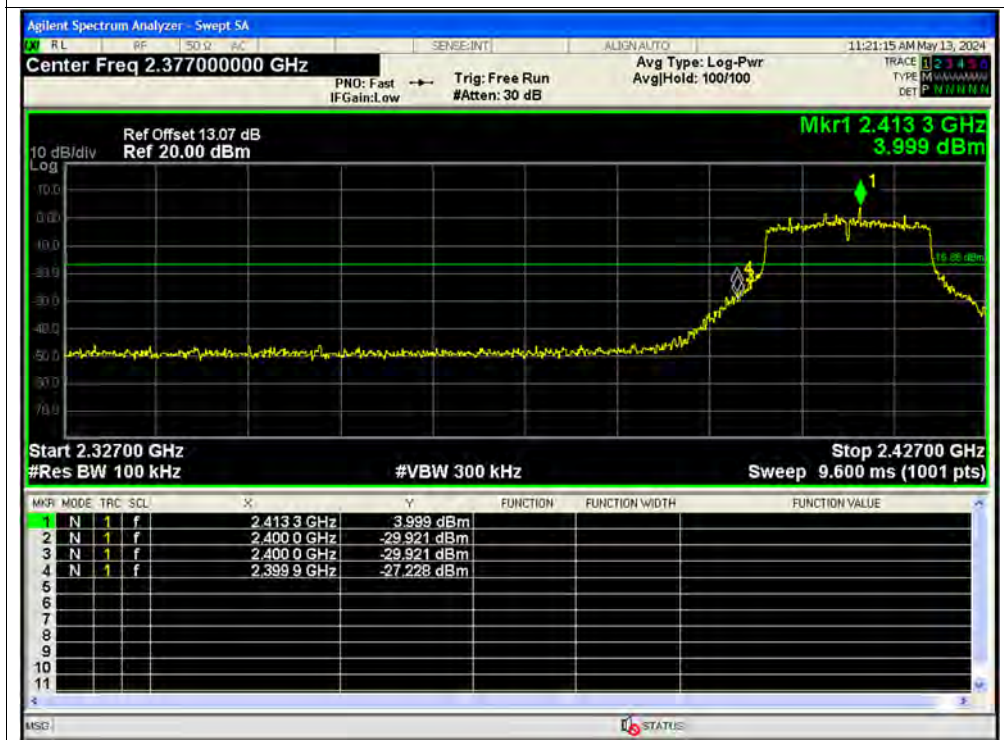




Band Edge NVNT ac20 2412MHz Ant1 Ref



Band Edge NVNT ac20 2412MHz Ant1 Emission

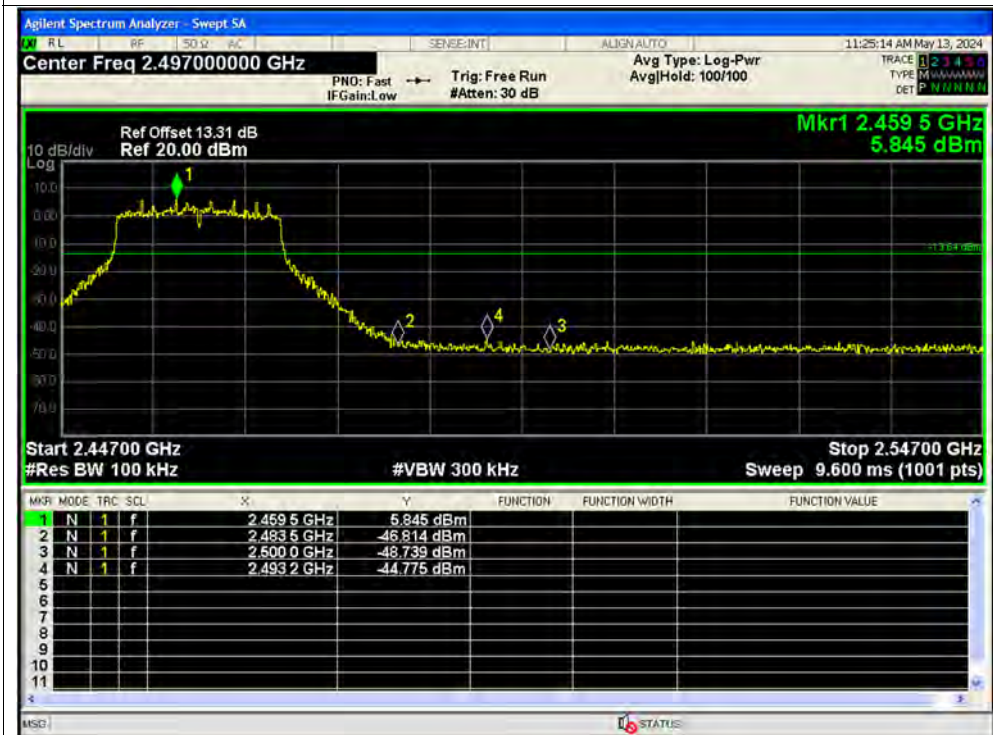




Band Edge NVNT ac20 2462MHz Ant1 Ref



Band Edge NVNT ac20 2462MHz Ant1 Emission



Band Edge NVNT ac40 2422MHz Ant1 Ref



Band Edge NVNT ac40 2422MHz Ant1 Emission

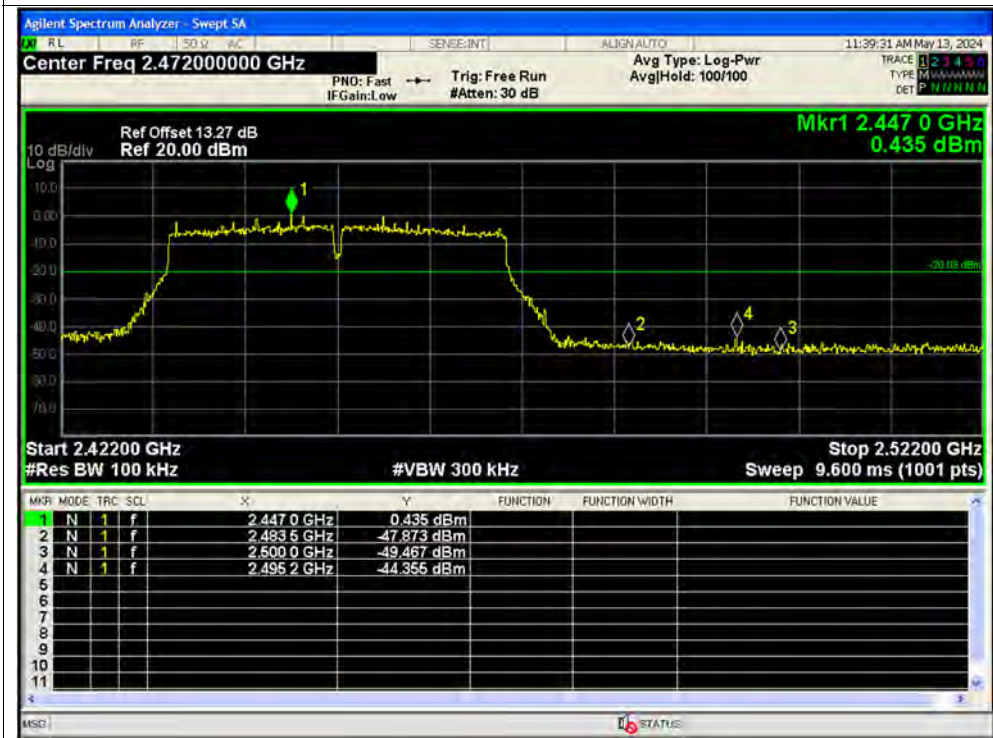




Band Edge NVNT ac40 2452MHz Ant1 Ref



Band Edge NVNT ac40 2452MHz Ant1 Emission



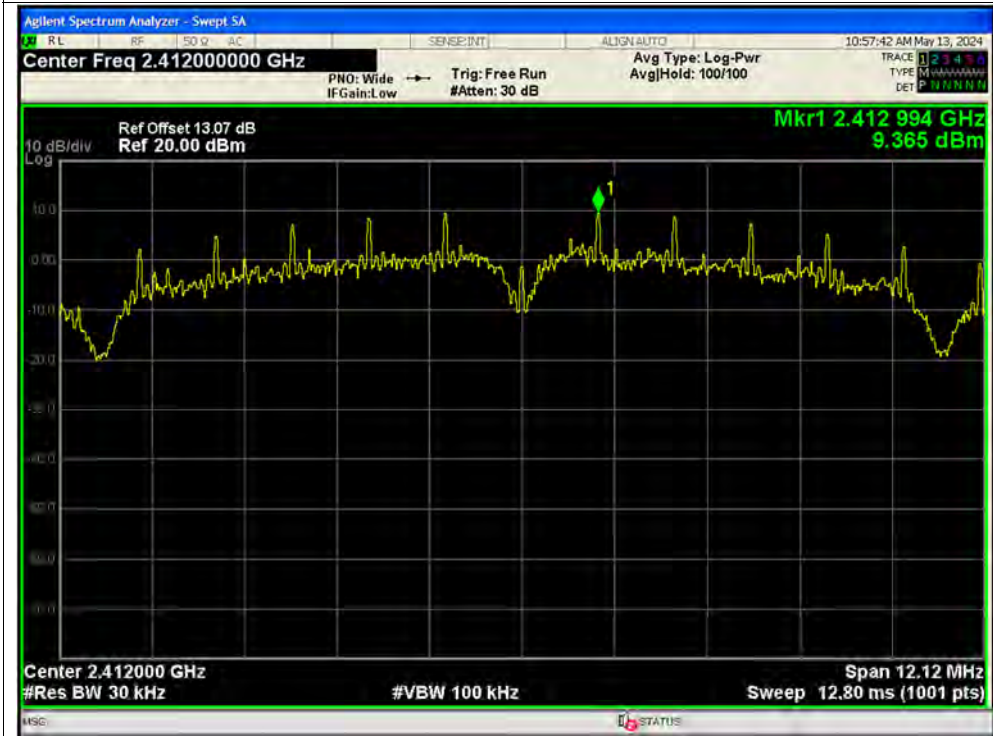
**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-0.63	0	-0.63	8	Pass
NVNT	b	2437	Ant1	-3.69	0	-3.69	8	Pass
NVNT	b	2462	Ant1	-0.44	0	-0.44	8	Pass
NVNT	g	2412	Ant1	-11.87	0	-11.87	8	Pass
NVNT	g	2437	Ant1	-8.27	0	-8.27	8	Pass
NVNT	g	2462	Ant1	-8.31	0	-8.31	8	Pass
NVNT	n20	2412	Ant1	-11.16	0	-11.16	8	Pass
NVNT	n20	2437	Ant1	-8.51	0	-8.51	8	Pass
NVNT	n20	2462	Ant1	-8.67	0	-8.67	8	Pass
NVNT	n40	2422	Ant1	-14.29	0	-14.29	8	Pass
NVNT	n40	2437	Ant1	-13.94	0	-13.94	8	Pass
NVNT	n40	2452	Ant1	-14.1	0	-14.1	8	Pass
NVNT	ac20	2412	Ant1	-11.44	0	-11.44	8	Pass
NVNT	ac20	2437	Ant1	-7.45	0	-7.45	8	Pass
NVNT	ac20	2462	Ant1	-8.1	0	-8.1	8	Pass
NVNT	ac40	2422	Ant1	-15.18	0	-15.18	8	Pass
NVNT	ac40	2437	Ant1	-13.8	0	-13.8	8	Pass
NVNT	ac40	2452	Ant1	-15.22	0	-15.22	8	Pass



Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1





PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1





PSD NVNT g 2437MHz Ant1

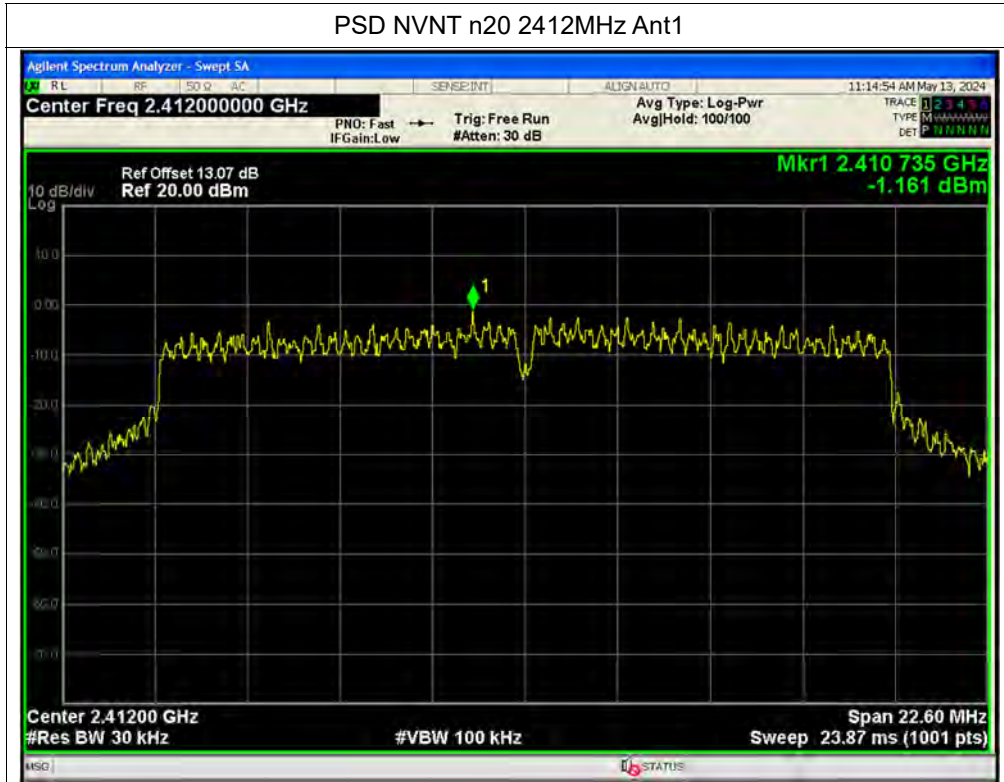


PSD NVNT g 2462MHz Ant1





PSD NVNT n20 2412MHz Ant1

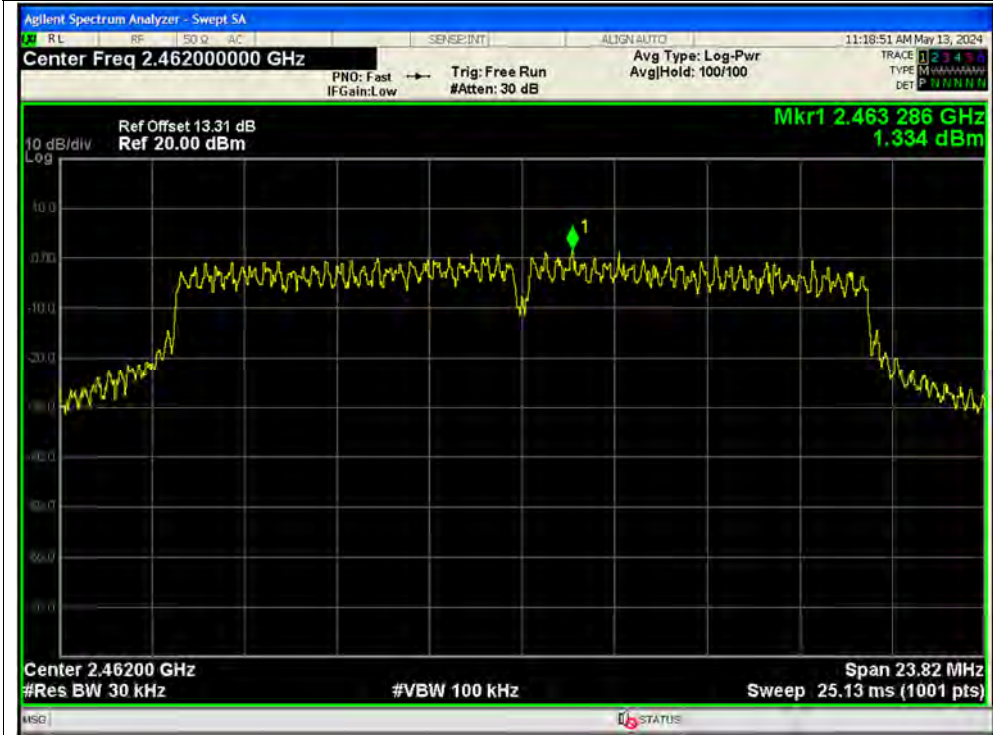


PSD NVNT n20 2437MHz Ant1





PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1





PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1





PSD NVNT ac20 2412MHz Ant1

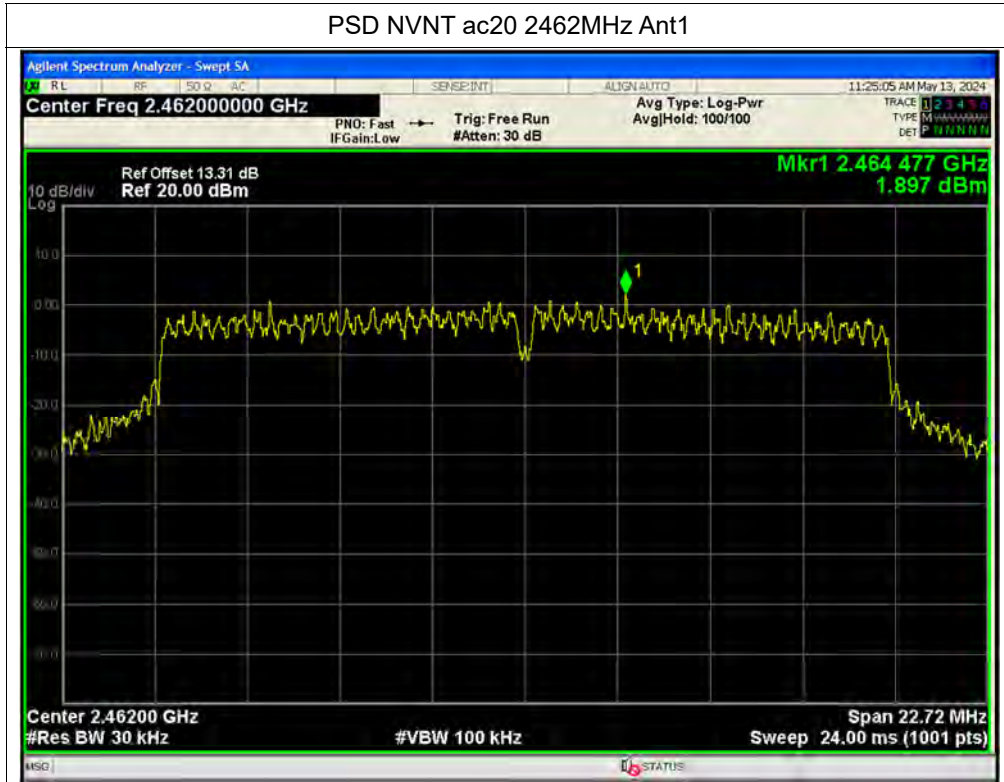


PSD NVNT ac20 2437MHz Ant1

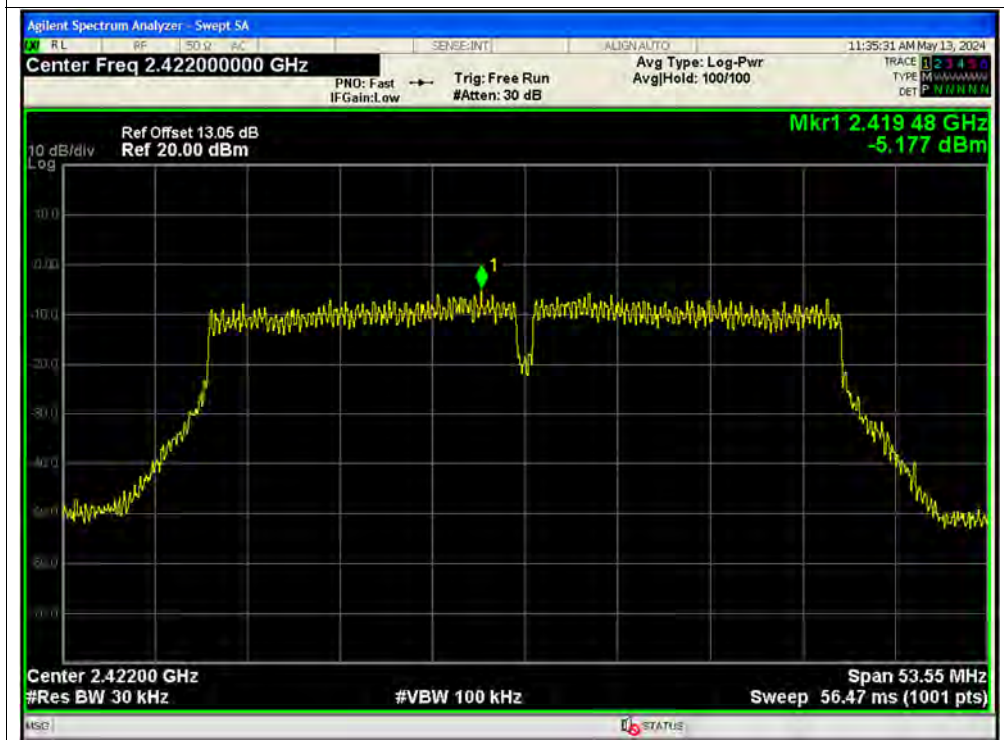




PSD NVNT ac20 2462MHz Ant1



PSD NVNT ac40 2422MHz Ant1

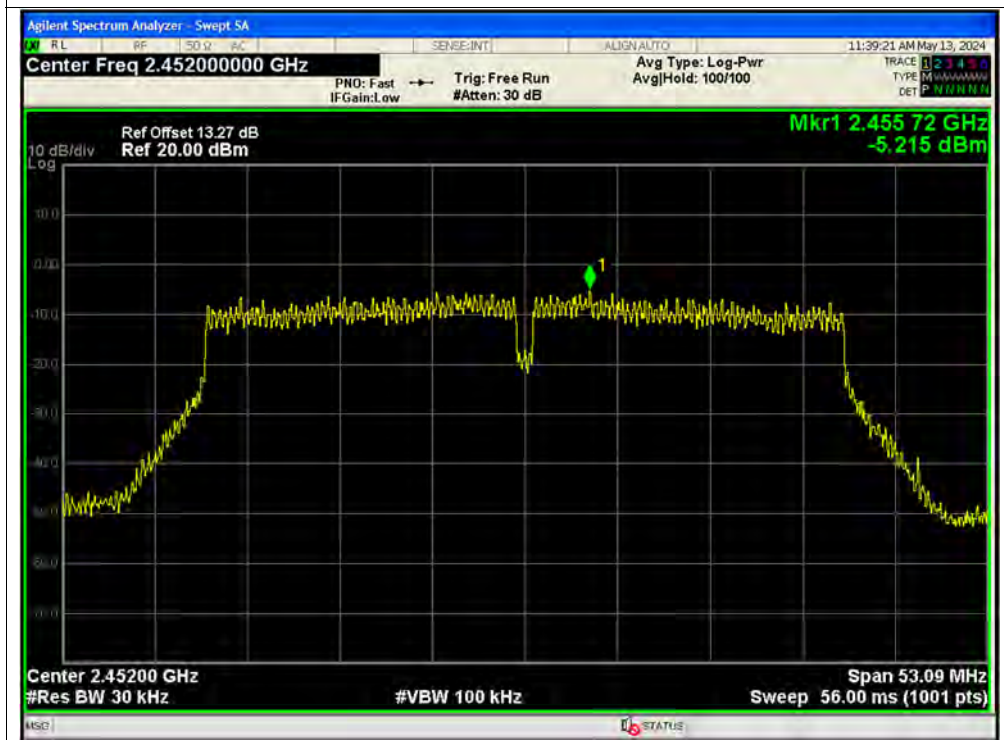




PSD NVNT ac40 2437MHz Ant1



PSD NVNT ac40 2452MHz Ant1





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 + Adapter + USB Cable +WIFI TX

Test voltage: AC 120V/60Hz

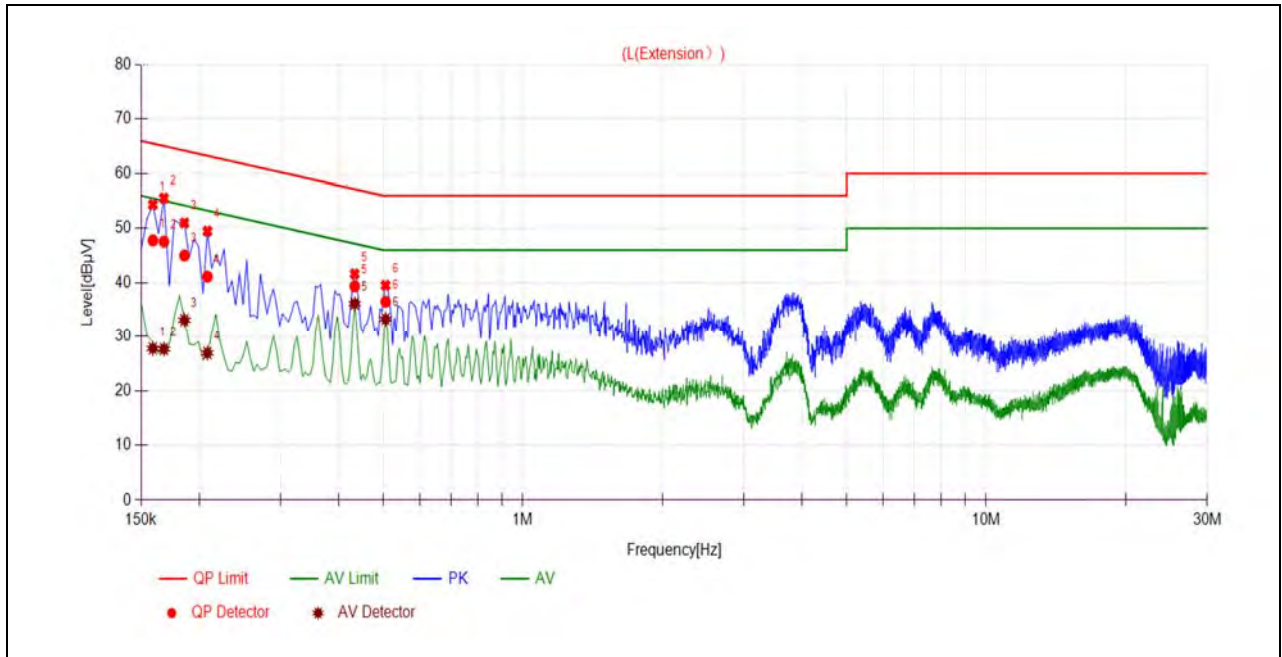
The measurement results are obtained as below:

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

U_R : Receiver Reading

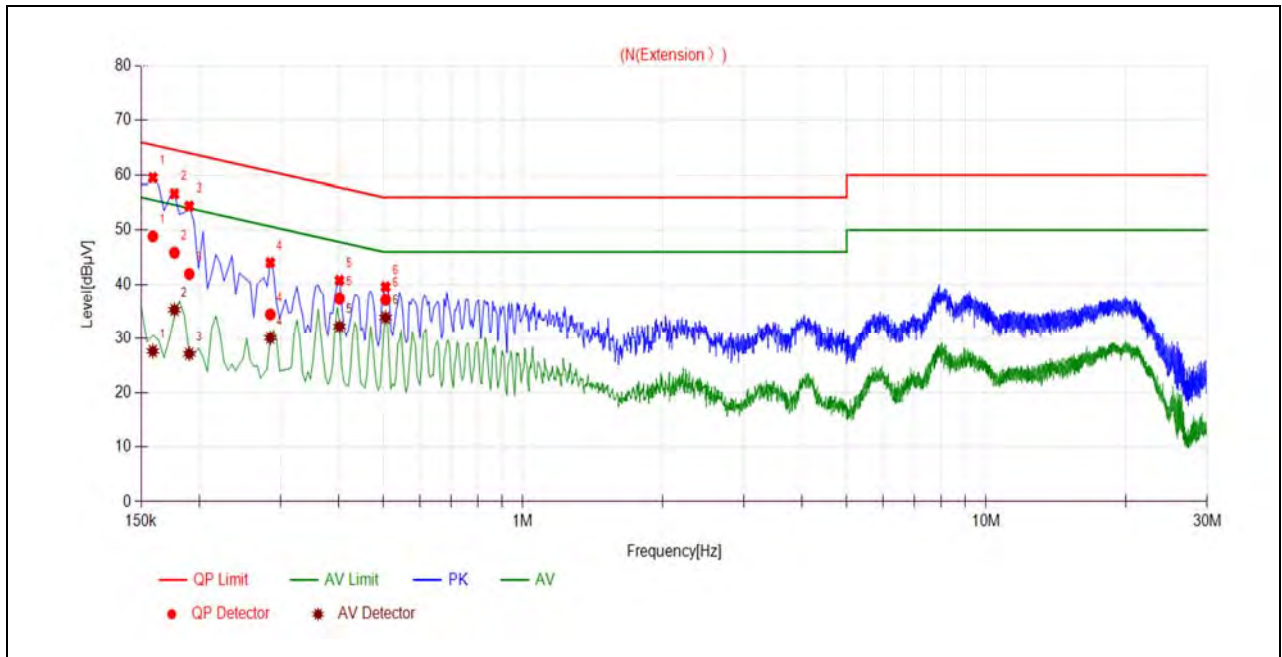
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1590	47.79	27.75	65.52	55.52	Line	PASS
2	0.1680	47.57	27.64	65.06	55.06		PASS
3	0.1860	45.02	33.10	64.21	54.21		PASS
4	0.2085	41.12	26.92	63.27	53.27		PASS
5	0.4335	39.34	36.13	57.19	47.19		PASS
6	0.5055	36.49	33.28	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	0.1590	48.85	27.63	65.52	55.52	Neutral	PASS
2	0.1770	45.85	35.37	64.63	54.63		PASS
3	0.1905	41.95	27.14	64.01	54.01		PASS
4	0.2850	34.51	30.10	60.67	50.67		PASS
5	0.4020	37.44	32.28	57.81	47.81		PASS
6	0.5055	37.23	33.96	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

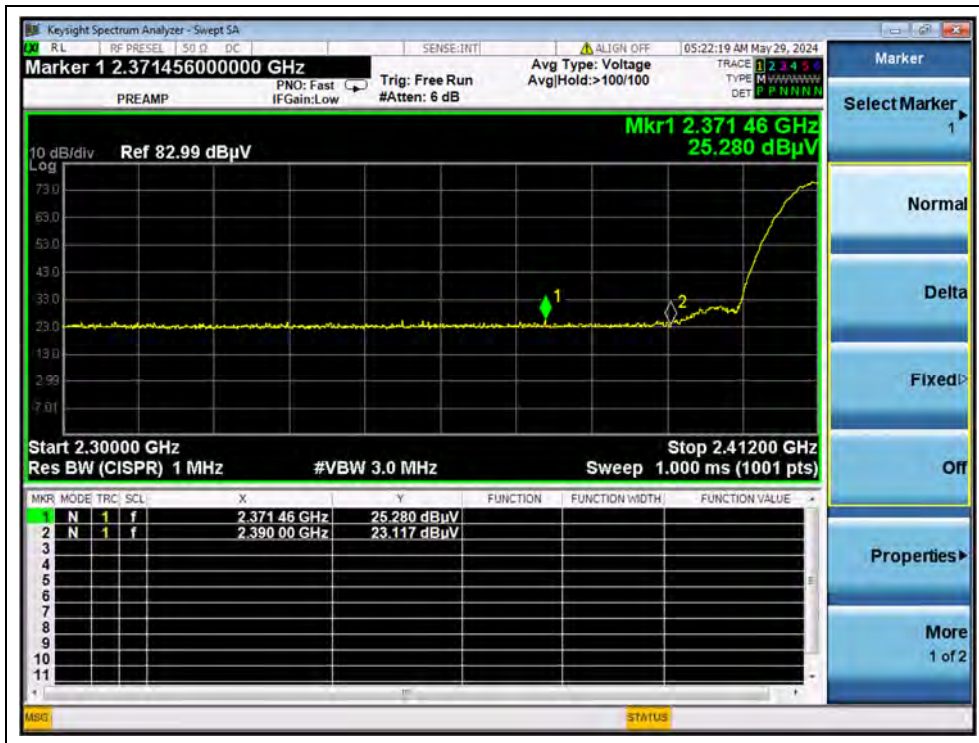
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

Note: 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.

802.11b Mode

Channel	Frequency (MHz)	Detector	Receiver Reading	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV	U_R (dB μ V)					
1	2371.46	PK	25.28	6.74	27.20	59.22	74	PASS
1	2390.00	AV	13.23	6.74	27.20	47.17	54	PASS
11	2487.12	PK	25.39	6.74	27.20	59.33	74	PASS
11	2487.65	AV	14.75	6.74	27.20	48.69	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

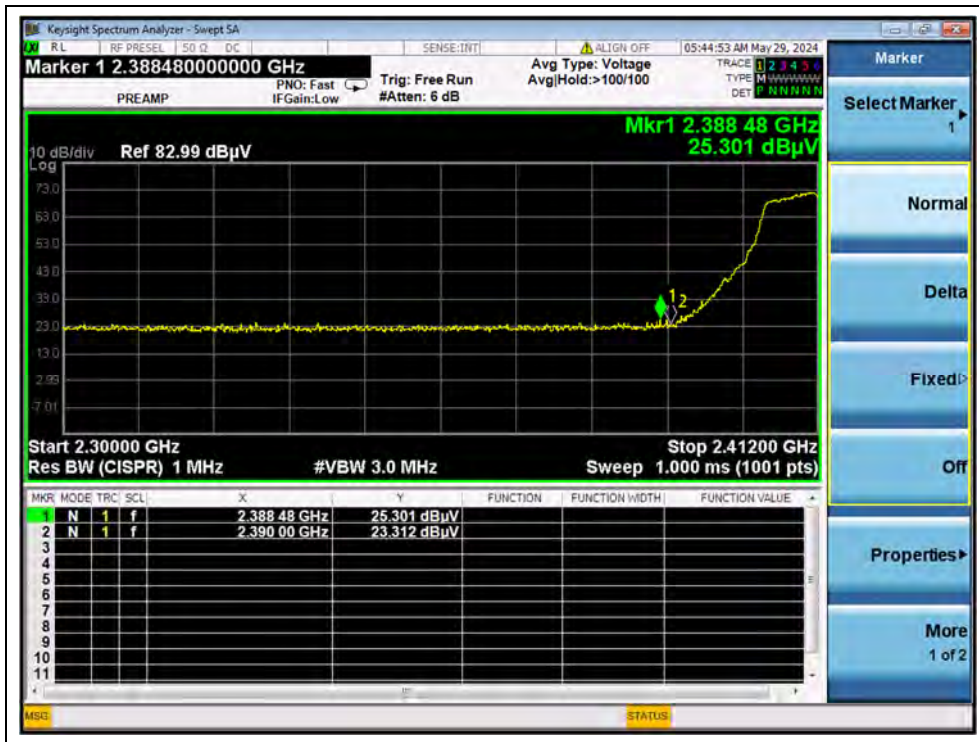


(AVERAGE, Channel 11, 802.11b)



802.11g Mode

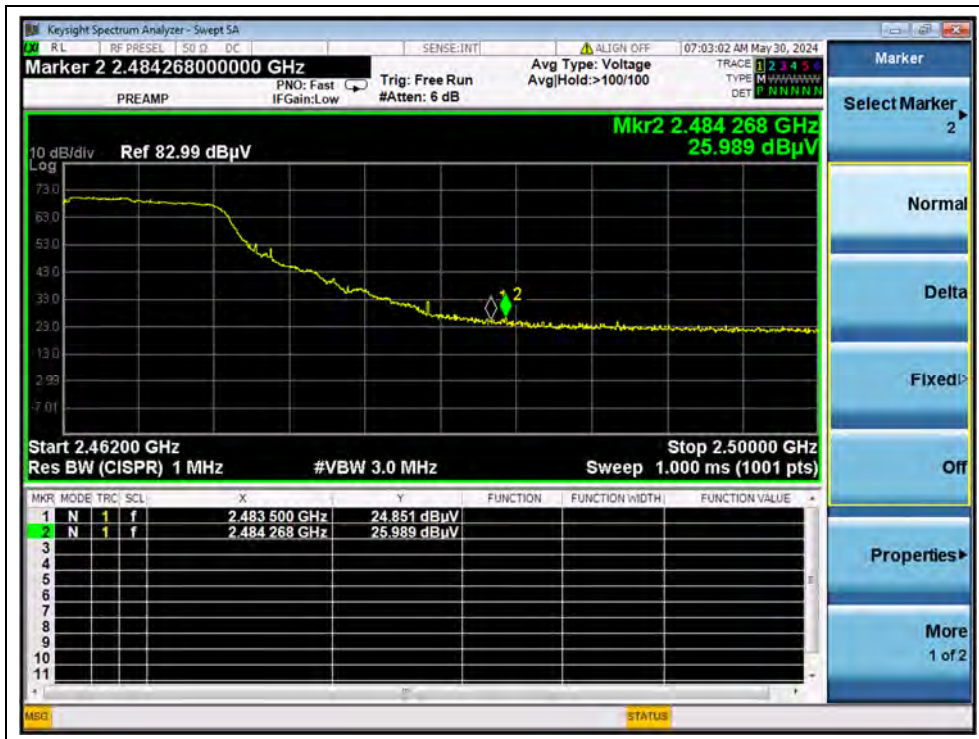
Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
1	2388.48	PK	25.30	6.74	27.20	59.24	74	PASS
1	2390.00	AV	13.00	6.74	27.20	46.94	54	PASS
11	2484.27	PK	25.99	6.74	27.20	59.93	74	PASS
11	2483.50	AV	13.39	6.74	27.20	47.33	54	PASS



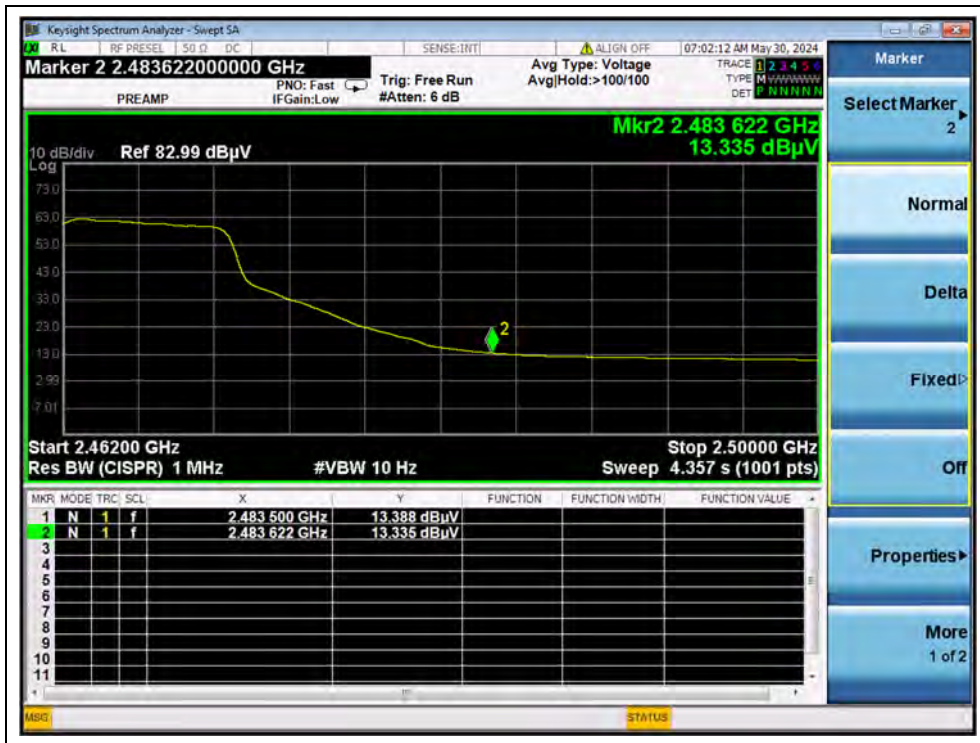
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

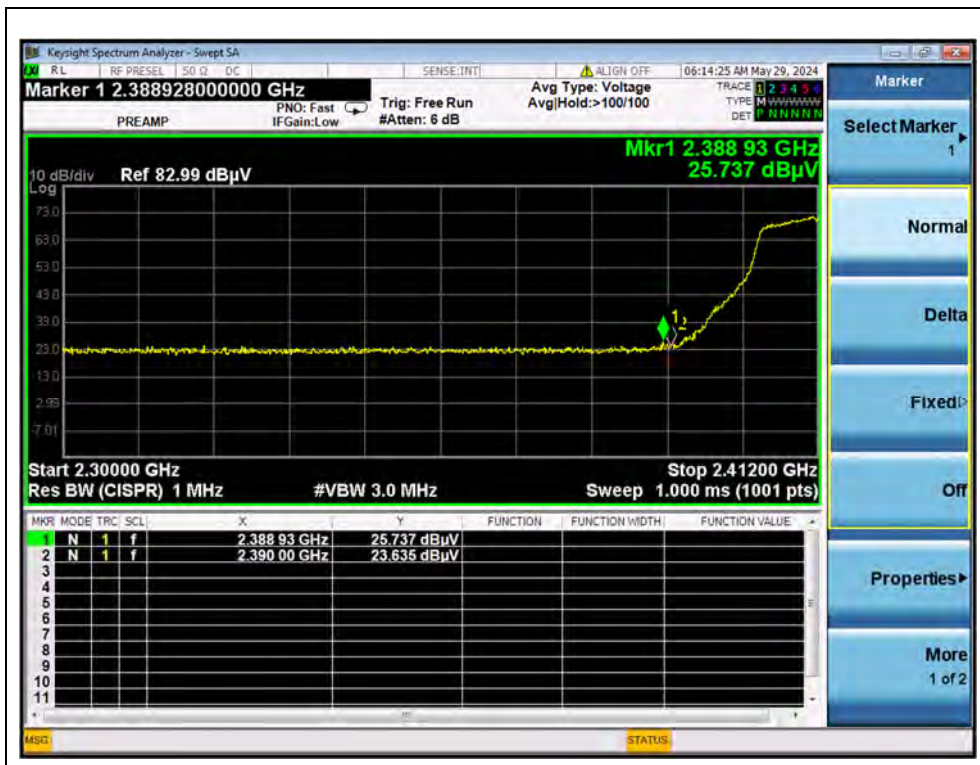


(AVERAGE, Channel 11, 802.11g)

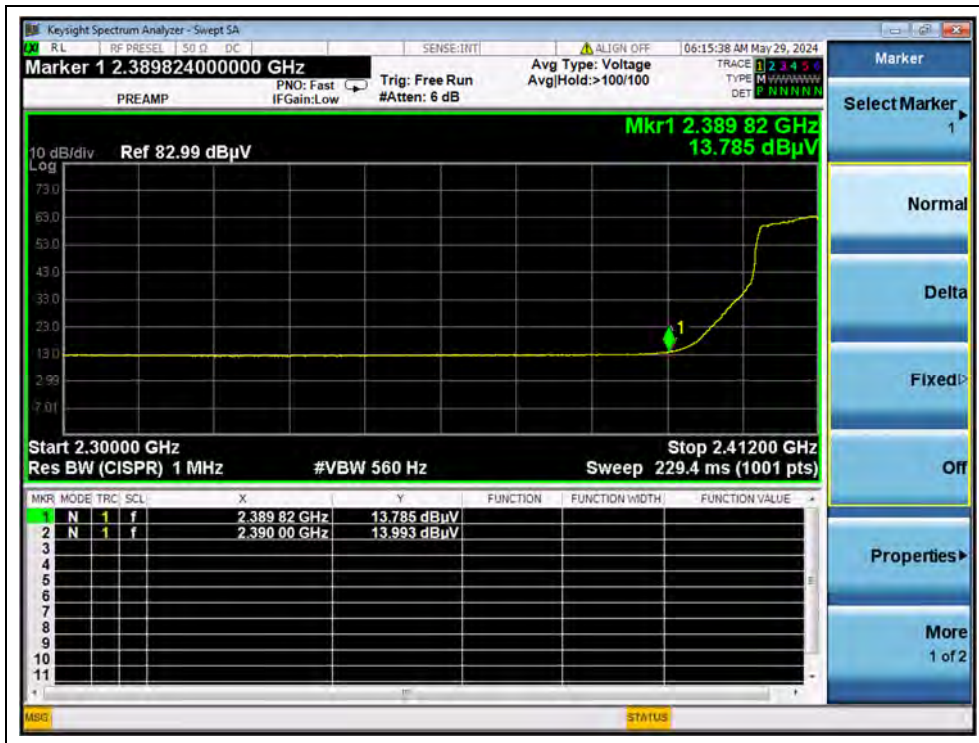


802.11n (HT20) Mode

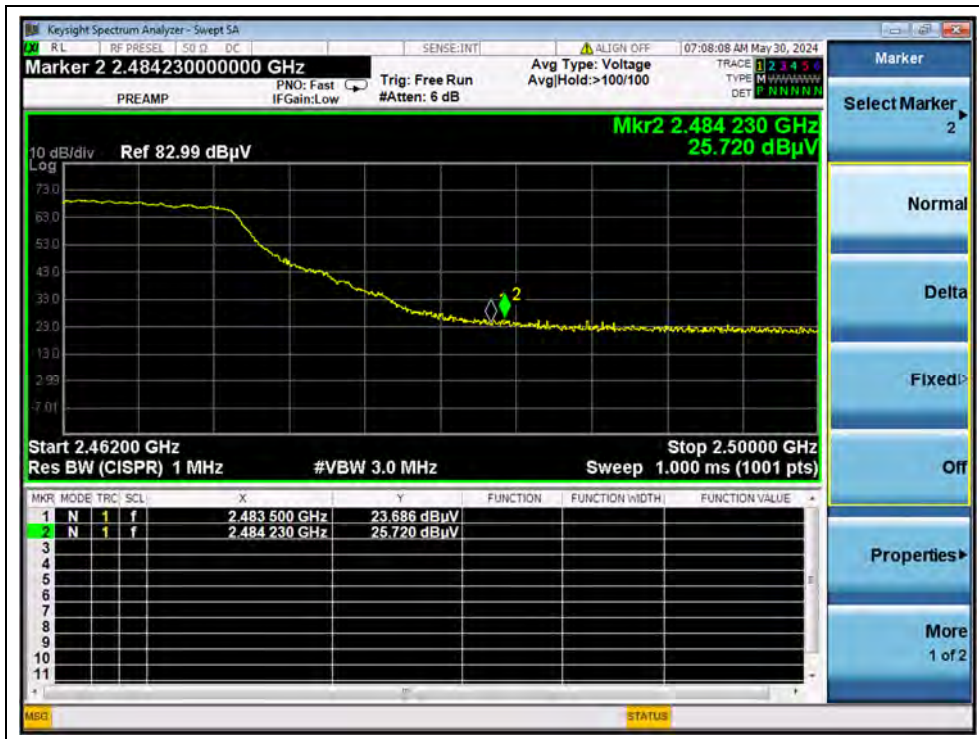
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2388.93	PK	25.74	6.74	27.20	59.68	74	PASS
1	2390.00	AV	13.99	6.74	27.20	47.93	54	PASS
11	2484.23	PK	25.72	6.74	27.20	59.66	74	PASS
11	2483.66	AV	14.34	6.74	27.20	48.28	54	PASS



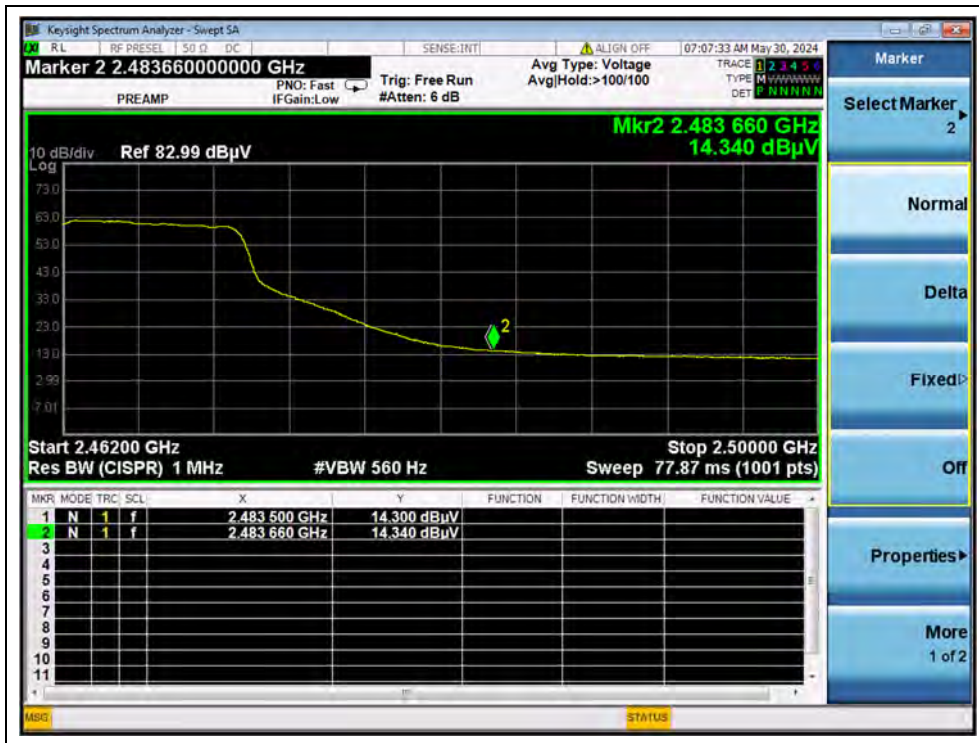
(PEAK, Channel 1, 802.11n (HT20))



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



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

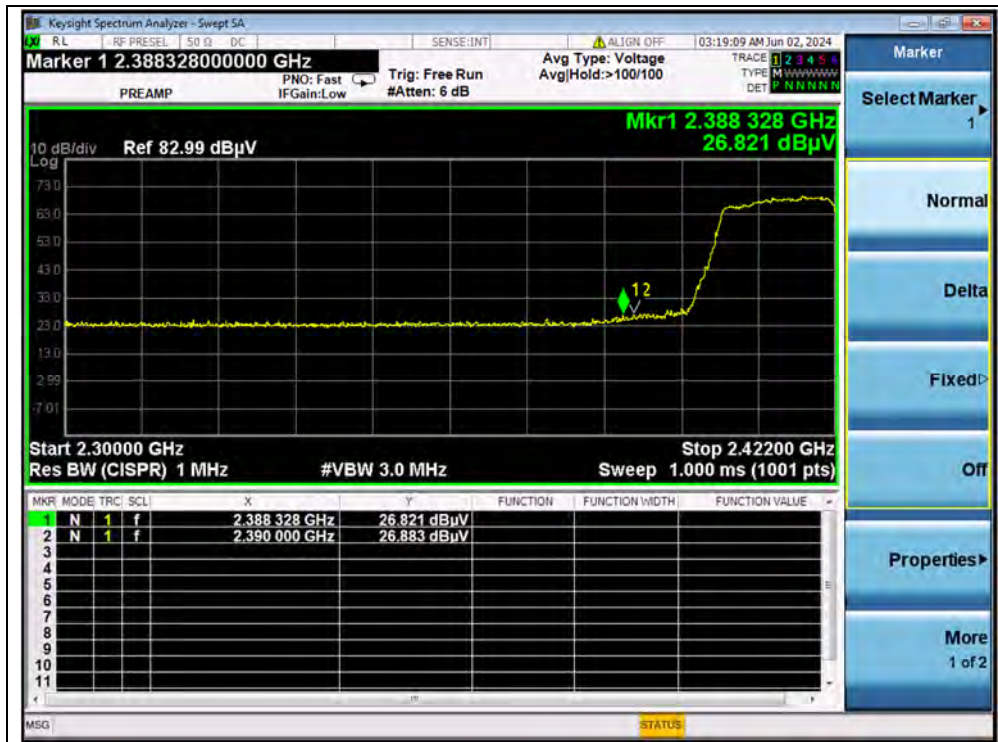


(AVERAGE, Channel 11, 802.11n (HT20))

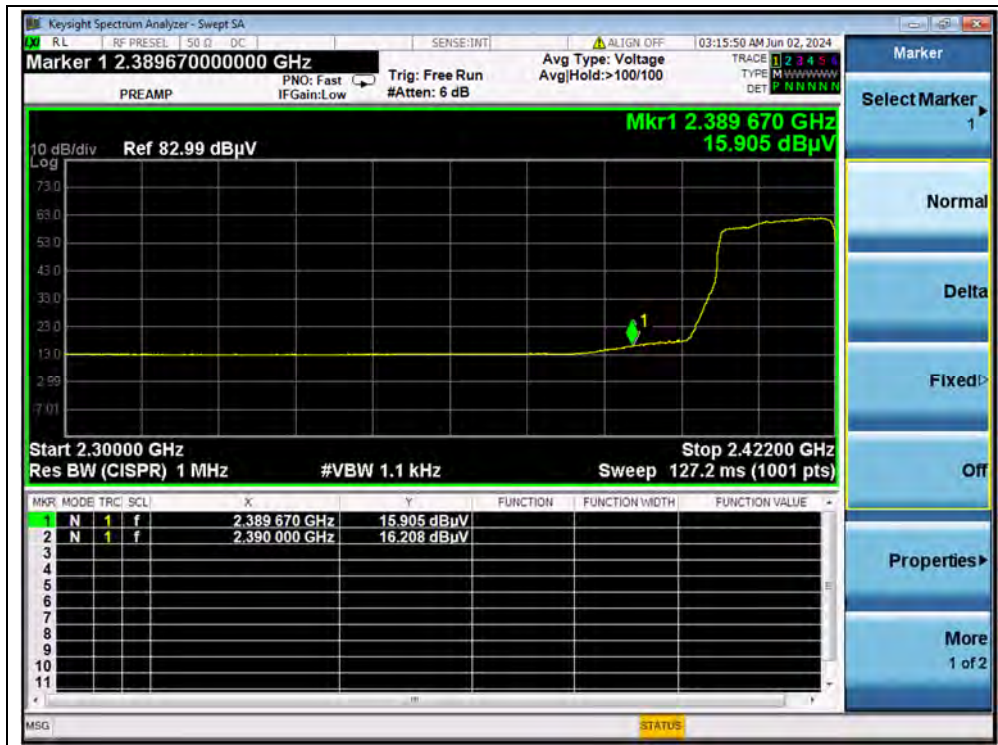


802.11n (HT40) Mode

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						
3	2390.00	PK	26.88	6.74	27.20	60.82	74	PASS
3	2390.00	AV	16.21	6.74	27.20	50.15	54	PASS
9	2484.83	PK	26.42	6.74	27.20	60.36	74	PASS
9	2483.68	AV	16.25	6.74	27.20	50.19	54	PASS



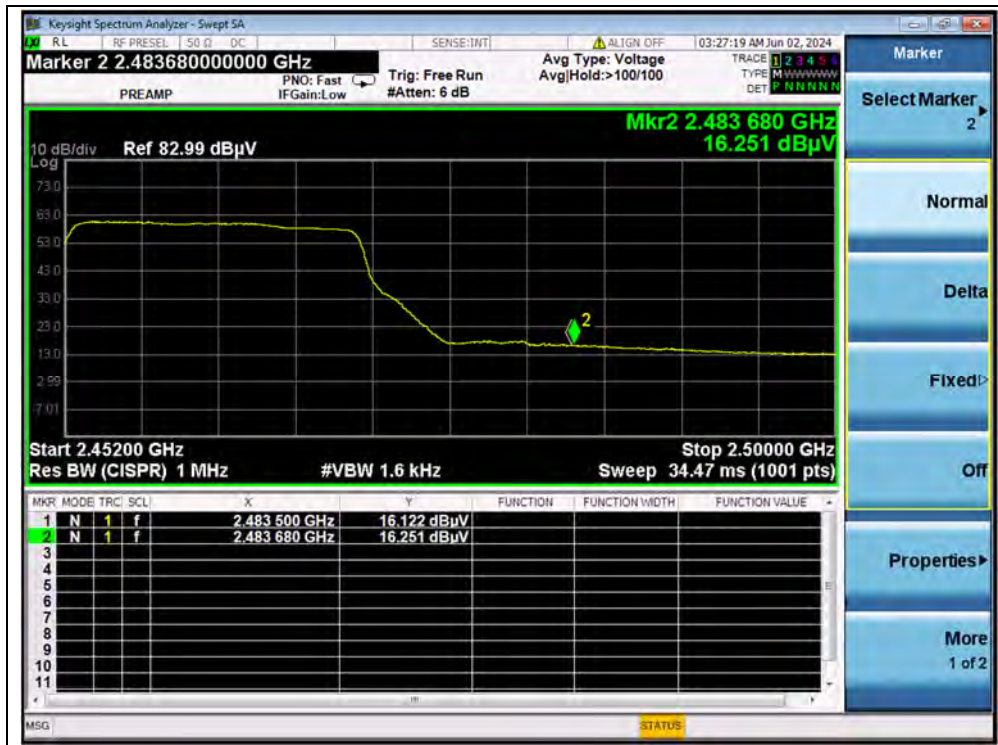
(PEAK, Channel 3, 802.11n (HT40))



(AVERAGE, Channel 3, 802.11n (HT40))



(PEAK, Channel 9, 802.11n (HT40))

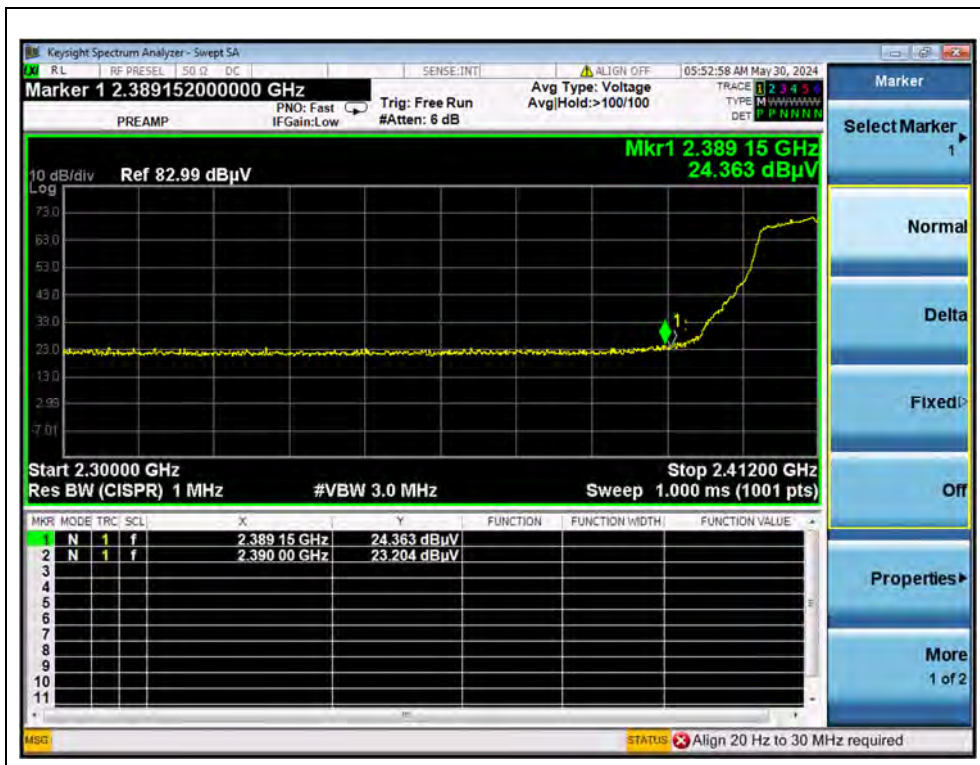


(AVERAGE, Channel 9, 802.11n (HT40))

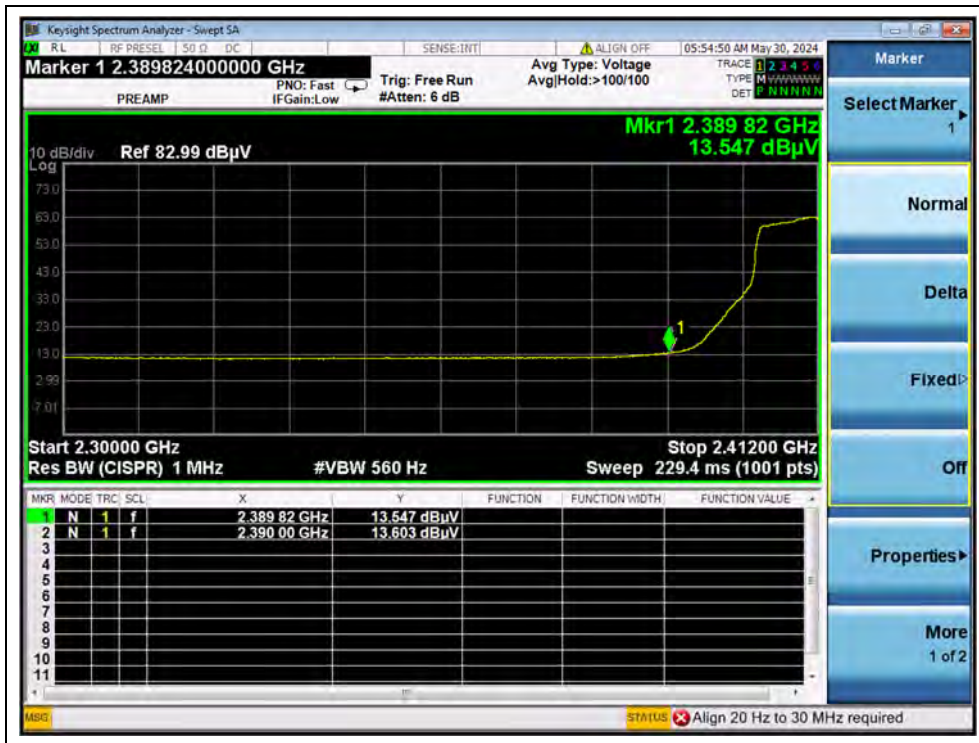


802.11ac (VHT20) Mode

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	2389.15	PK	24.36	6.74	27.20	58.30	74	PASS
1	2390.00	AV	13.60	6.74	27.20	47.54	54	PASS
11	2484.12	PK	27.10	6.74	27.20	61.04	74	PASS
11	2483.50	AV	16.67	6.74	27.20	50.61	54	PASS



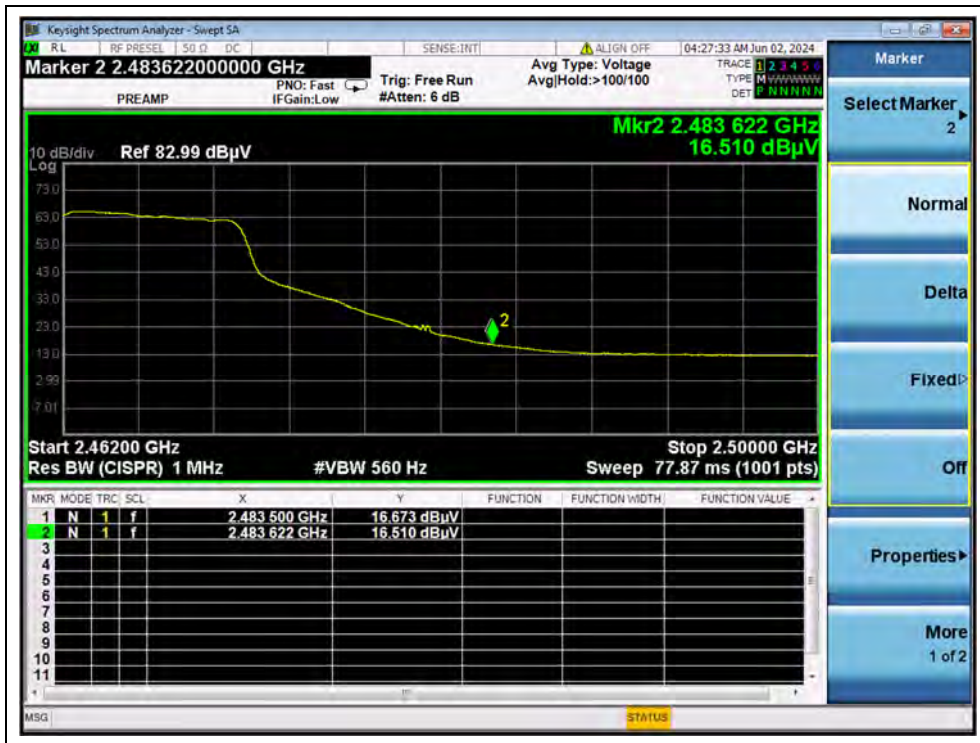
(PEAK, Channel 1, 802.11ac (VHT20))



(AVERAGE, Channel 1, 802.11ac (VHT20))



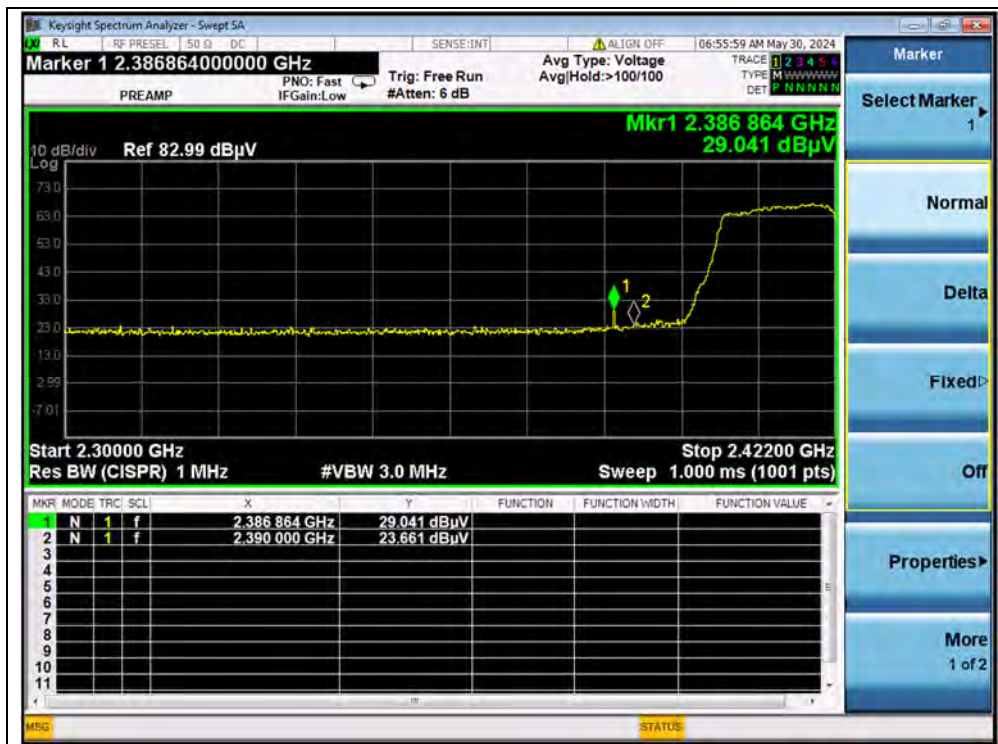
(PEAK, Channel 11, 802.11ac (VHT20))



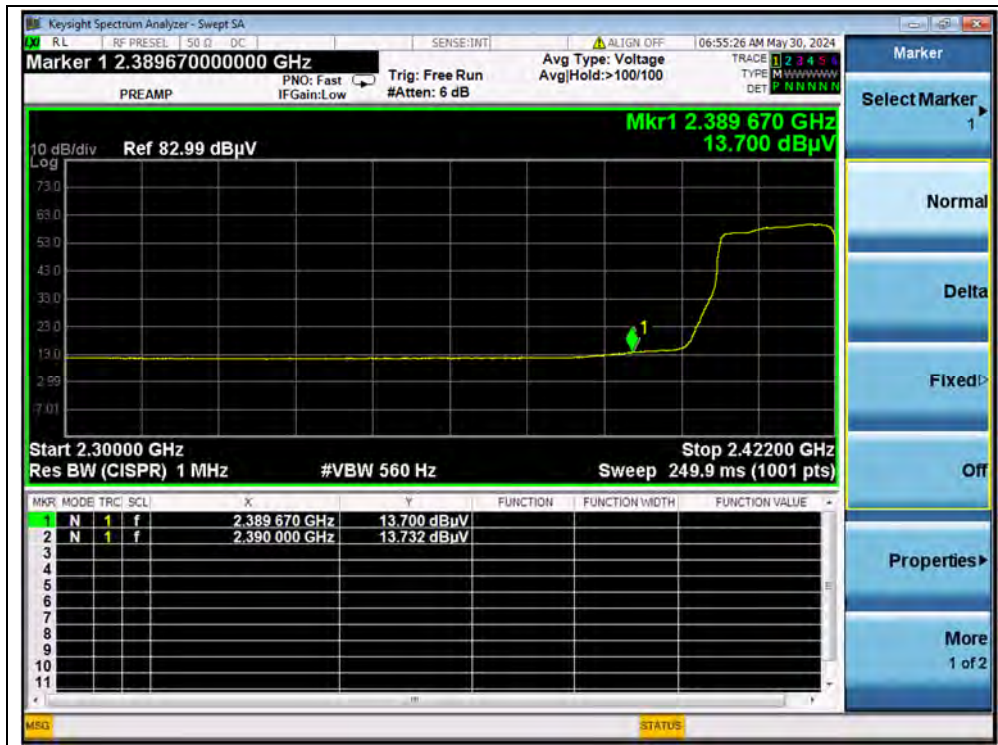
(AVERAGE, Channel 11, 802.11ac (VHT20))

802.11ac (VHT40) 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						
3	2386.86	PK	29.04	6.74	27.20	62.98	74	PASS
3	2390.00	AV	13.73	6.74	27.20	47.67	54	PASS
9	2489.01	PK	27.60	6.74	27.20	61.54	74	PASS
9	2483.58	AV	15.90	6.74	27.20	49.84	54	PASS



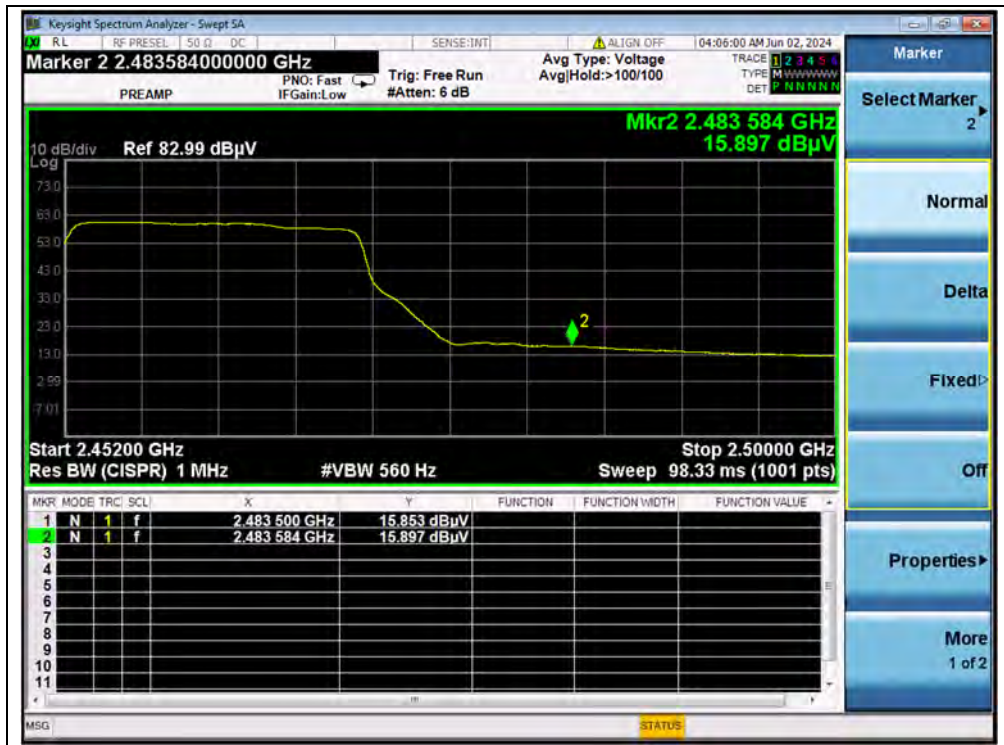
(PEAK, Channel 3, 802.11ac (VHT40))



(AVERAGE, Channel 3, 802.11ac (VHT40))



(PEAK, Channel 9, 802.11ac (VHT40))



(AVERAGE, Channel 9, 802.11ac (VHT40))



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:

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

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:

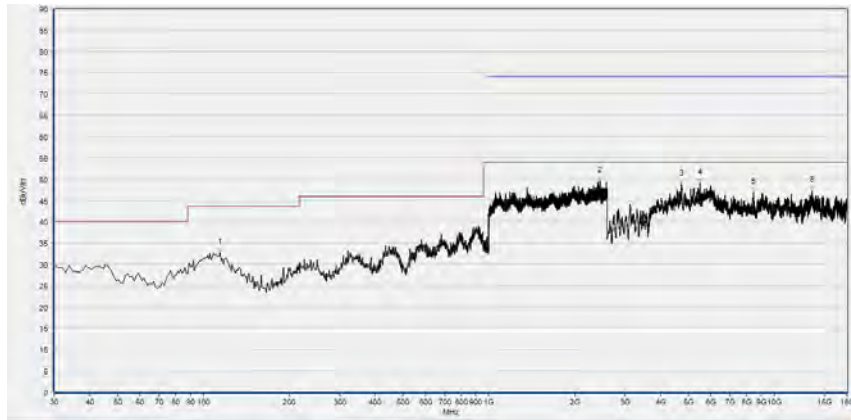
Frequency (MHz)	Reading_Peak (dBμV/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dBμV/m)	Antenna Polarity
2418.40	69.23	27.20	6.74	103.17	Horizontal

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



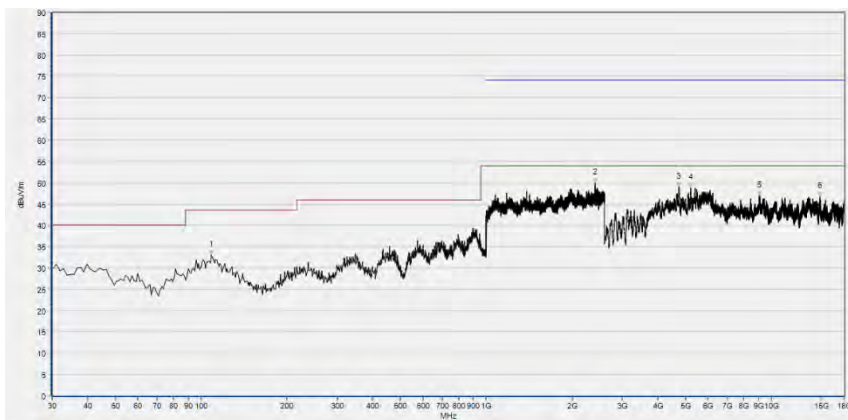
802.11b Mode

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
114.390	32.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2448.533	49.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	48.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5479.800	49.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8461.240	46.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13583.280	47.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

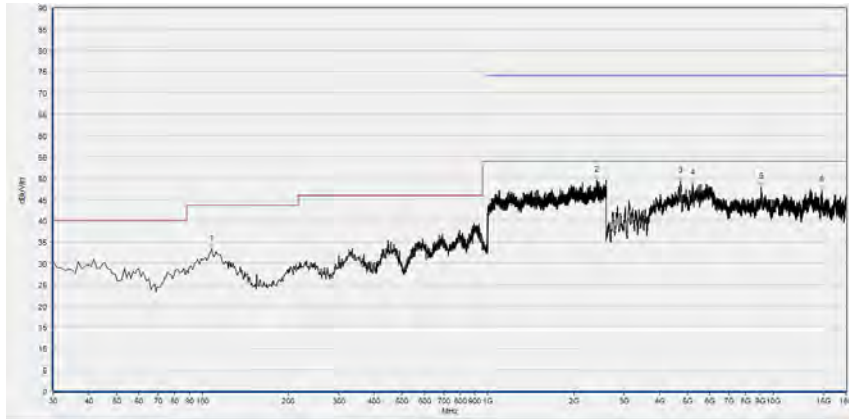
(Antenna Horizontal, 30MHz to 18GHz)



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	33.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2407.467	50.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4740.600	48.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5218.000	48.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9077.240	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14821.440	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

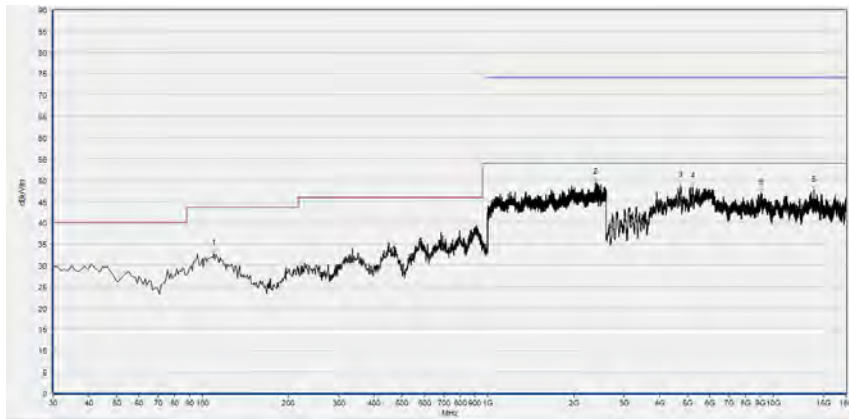
(Antenna Vertical, 30MHz to 18GHz)

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
107.600	33.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2408.000	49.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	49.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5221.080	48.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9083.400	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14796.800	47.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

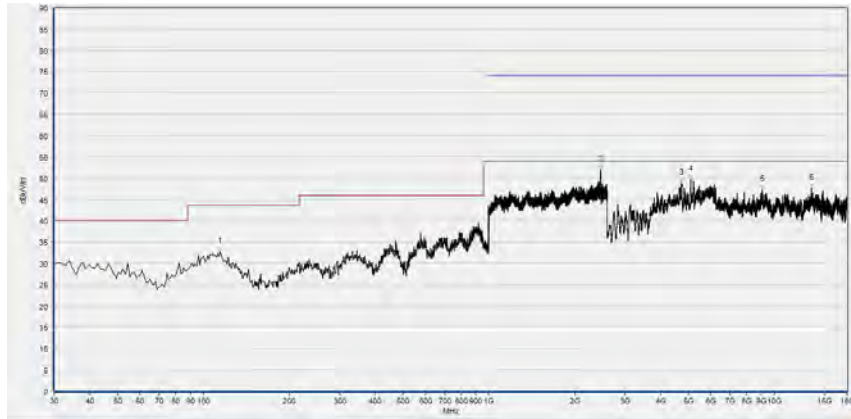
(Antenna Horizontal, 30MHz to 18GHz)



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
109.540	32.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2380.267	49.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4740.600	48.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5221.080	48.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9071.080	46.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13894.360	47.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

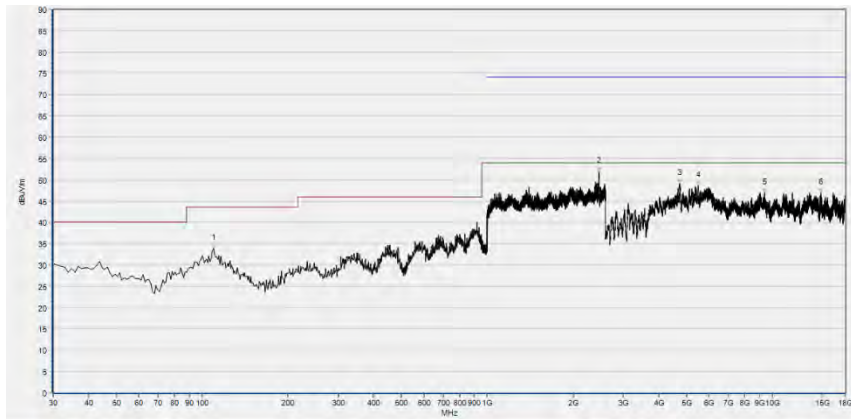
(Antenna Vertical, 30MHz to 18GHz)

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
114.390	32.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2462.400	51.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	48.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5104.040	49.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9089.560	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13497.040	47.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

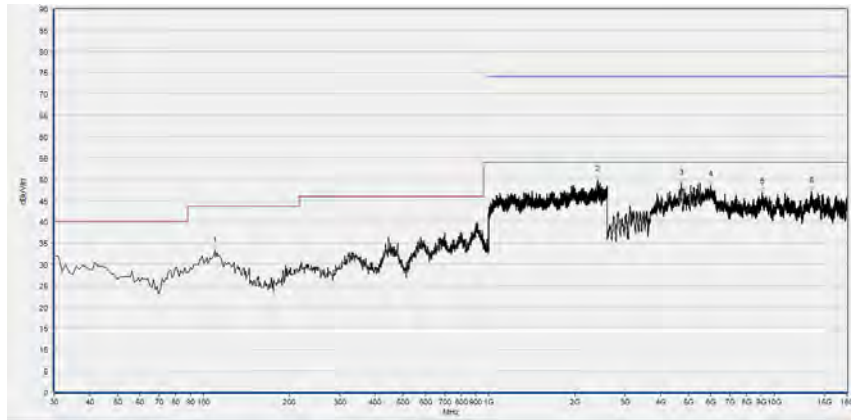


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.540	33.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2462.933	51.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	49.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5485.960	48.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9379.080	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14778.320	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

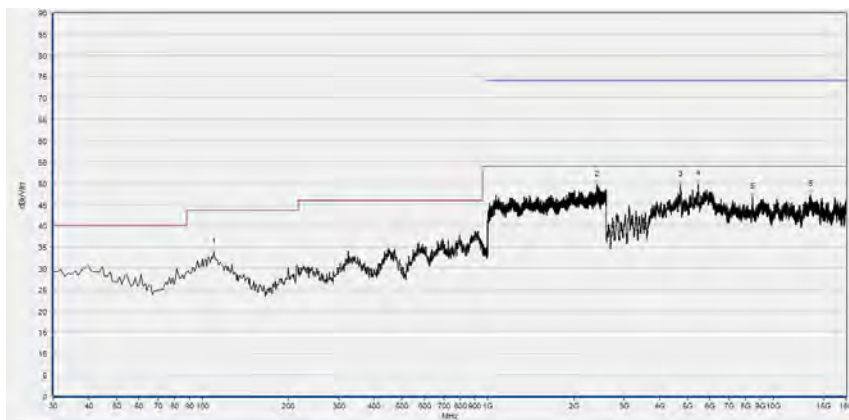
802.11g Mode

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	33.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2408.533	49.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4737.520	48.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5972.600	48.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9074.160	46.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13472.400	47.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

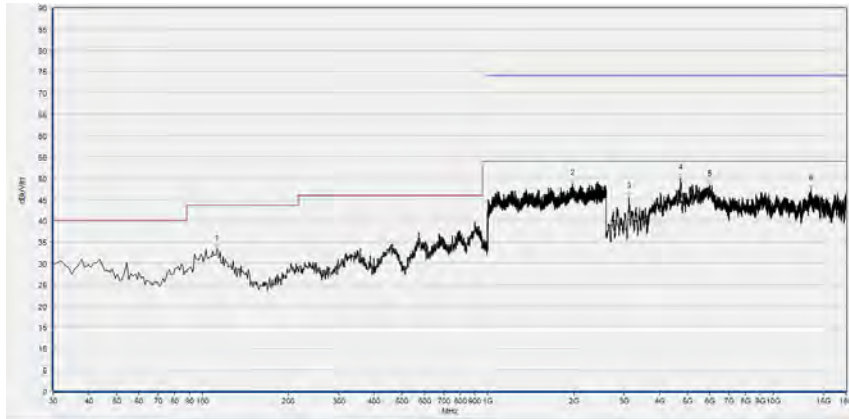
(Antenna Horizontal, 30MHz to 18GHz)



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	33.70	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2411.200	49.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	49.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5470.560	49.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8461.240	46.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13469.320	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

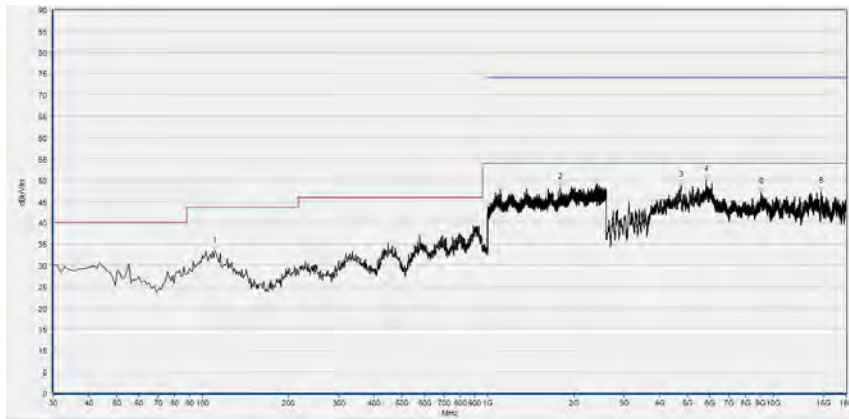
(Antenna Vertical, 30MHz to 18GHz)

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
112.450	33.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1980.267	48.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3126.680	45.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	49.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5988.000	48.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13583.280	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

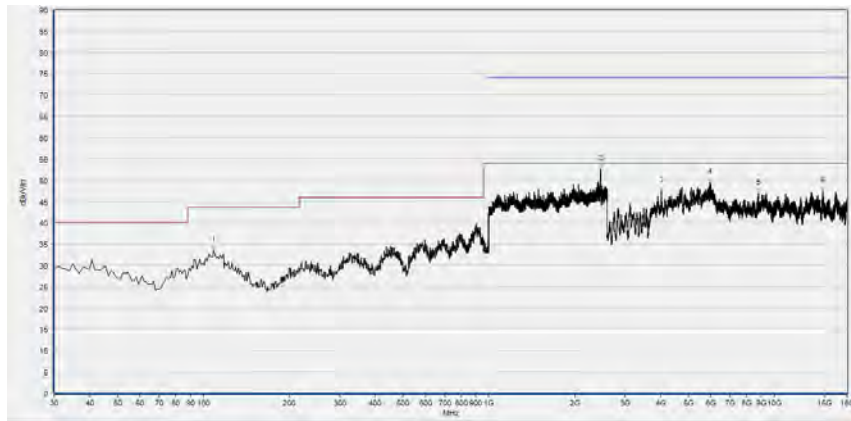
(Antenna Horizontal, 30MHz to 18GHz)



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
110.510	33.37	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1798.400	48.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4752.920	48.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5806.280	50.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9064.920	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14744.440	47.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

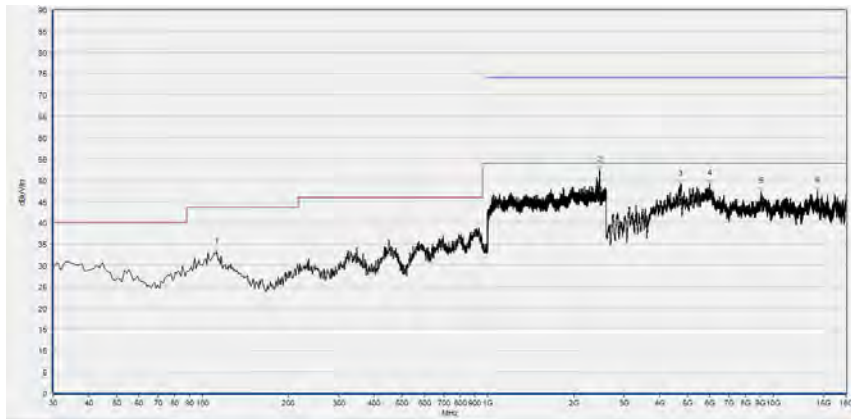
(Antenna Vertical, 30MHz to 18GHz)

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	33.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2462.400	52.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4029.120	47.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5966.440	49.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8790.800	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14756.760	47.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

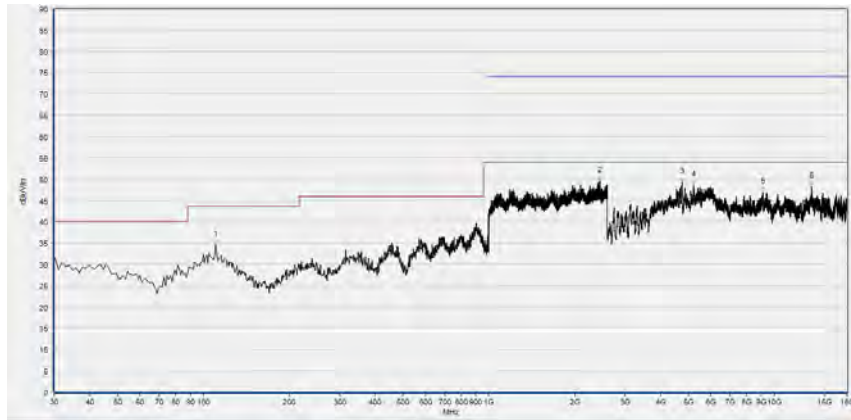


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	33.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2466.133	52.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4740.600	48.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5981.840	49.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9074.160	47.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14267.040	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

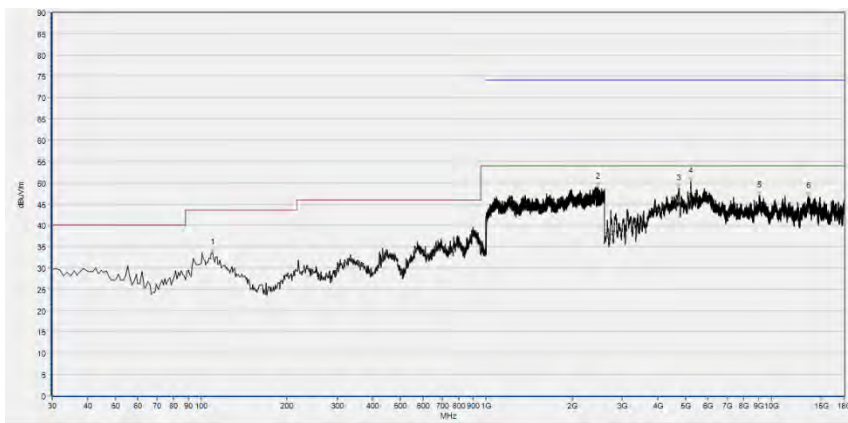
802.11n (HT20) Mode

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	34.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2456.000	49.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4749.840	49.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5224.160	48.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9123.440	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13530.920	48.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

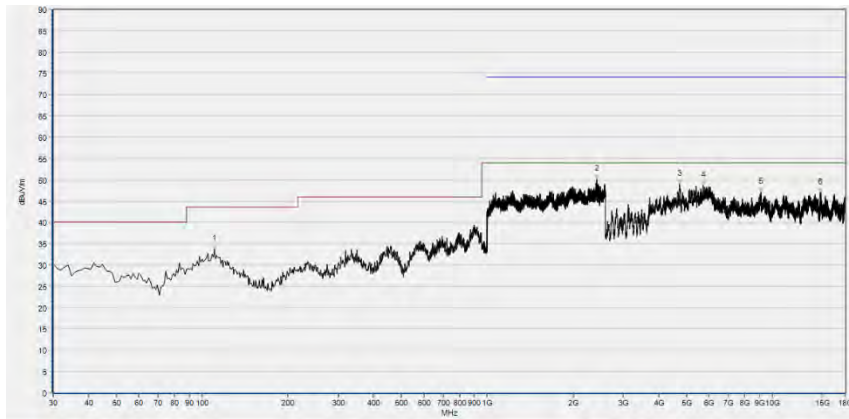
(Antenna Horizontal, 30MHz to 18GHz)



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
109.540	33.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2462.400	48.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4740.600	48.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5227.240	50.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9071.080	46.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13487.800	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

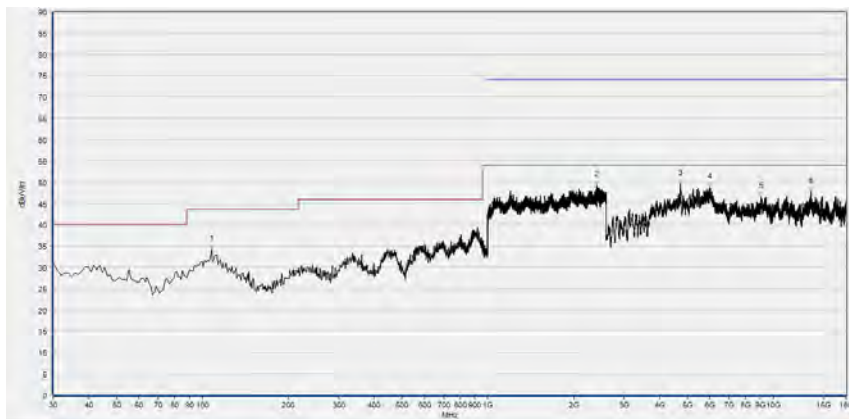
(Antenna Vertical, 30MHz to 18GHz)

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
110.510	33.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2416.533	50.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4737.520	48.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5729.280	48.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9098.800	47.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14716.720	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

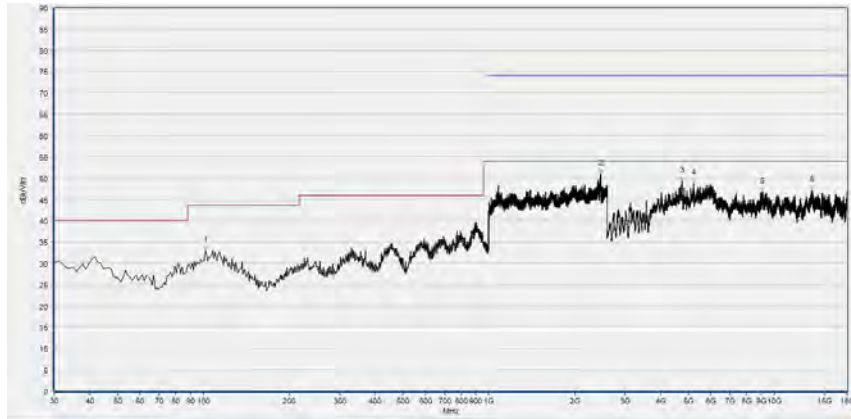
(Antenna Horizontal, 30MHz to 18GHz)



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	34.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2405.333	49.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4740.600	49.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5972.600	48.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9061.840	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13592.520	47.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

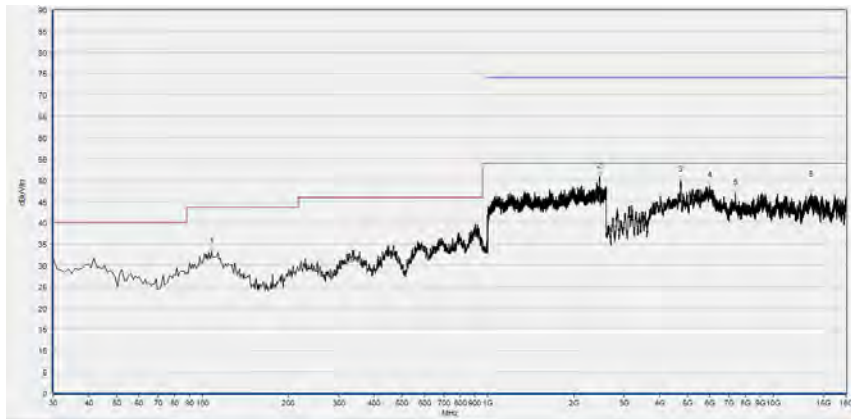
(Antenna Vertical, 30MHz to 18GHz)

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
101.780	32.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2462.400	50.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4746.760	49.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5224.160	48.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9071.080	46.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13574.040	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

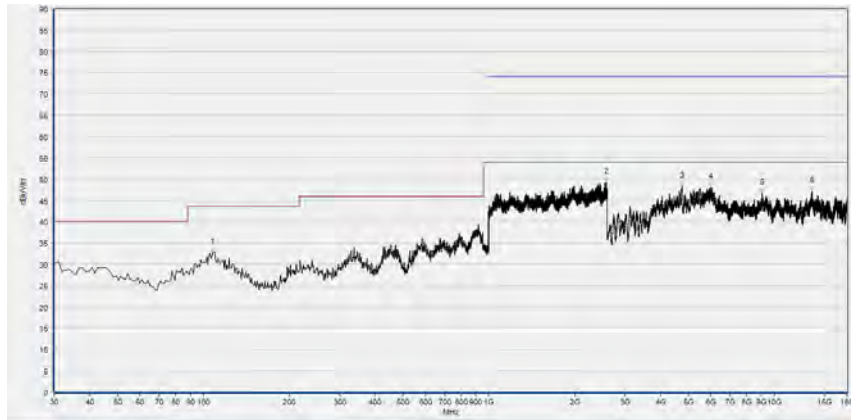


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	33.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2465.067	50.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4731.360	49.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5994.160	48.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7364.760	46.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13574.040	46.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

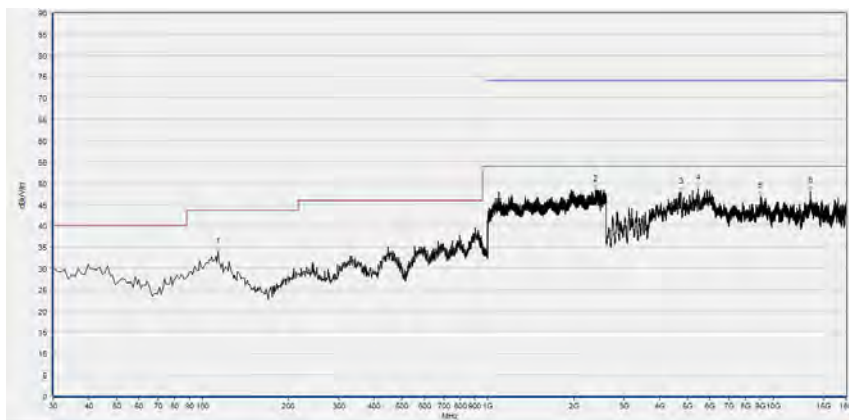
802.11n (HT40) Mode

Plot for Channel 3



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	32.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2582.400	49.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4746.760	48.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5988.000	48.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9071.080	46.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13552.480	47.04	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	33.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2386.667	48.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4743.680	47.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5470.560	48.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9040.280	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13497.040	48.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

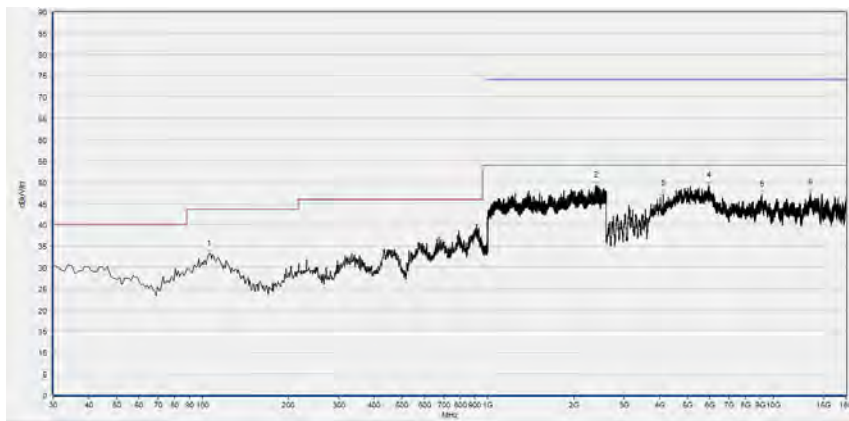
(Antenna Vertical, 30MHz to 18GHz)

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	32.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2414.400	49.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5193.360	49.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9092.640	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14069.920	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16410.720	46.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

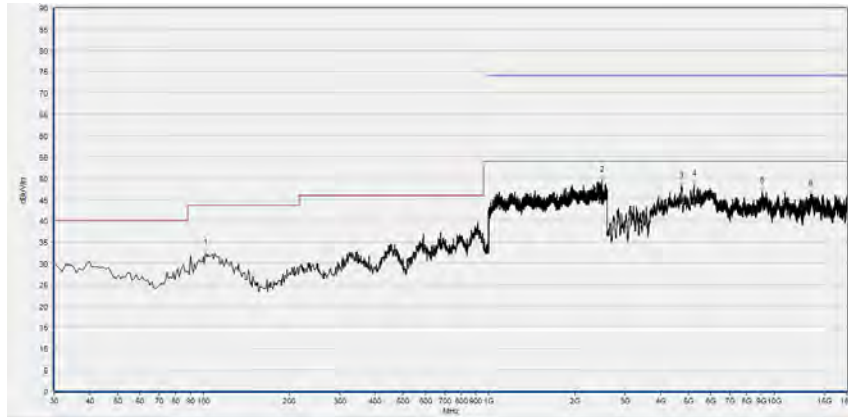
(Antenna Horizontal, 30MHz to 18GHz)



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	33.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2389.867	49.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4115.360	47.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5969.520	49.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9104.960	46.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13484.720	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

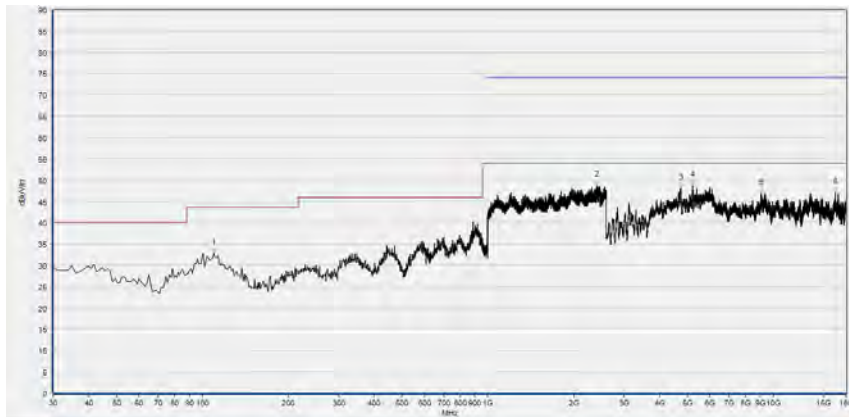
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 9



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	32.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2487.467	49.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	48.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5230.320	48.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9089.560	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13438.520	46.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

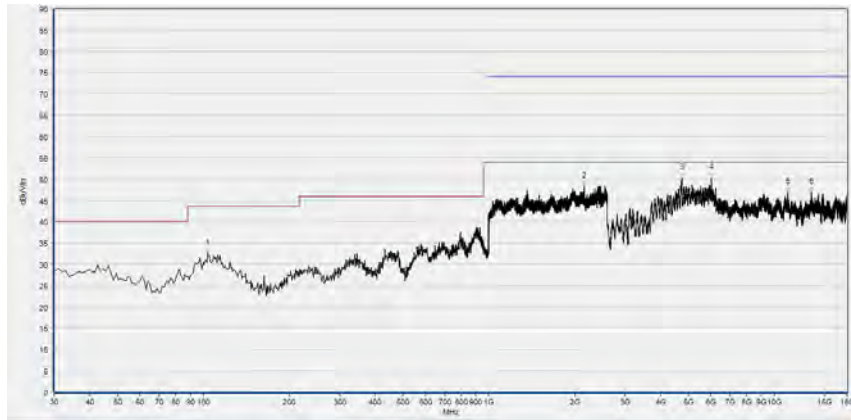


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.540	32.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2415.467	48.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4743.680	48.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5224.160	48.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9071.080	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16466.160	47.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

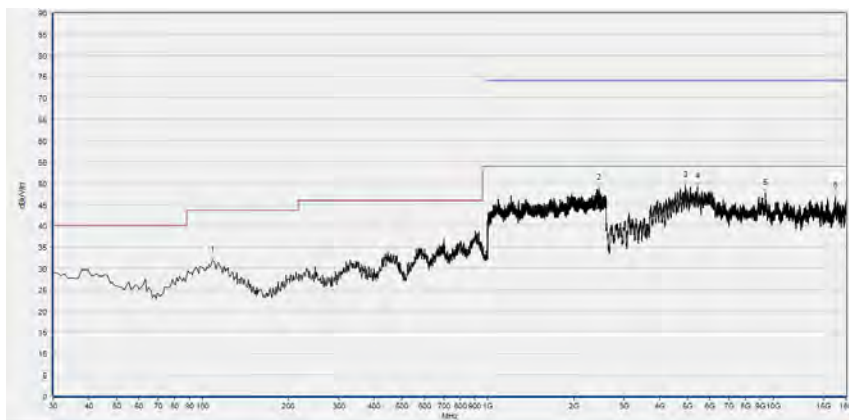
802.11ac (VHT20) Mode

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
103.720	32.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2154.667	48.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4743.680	50.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6021.880	50.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11177.800	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13493.960	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

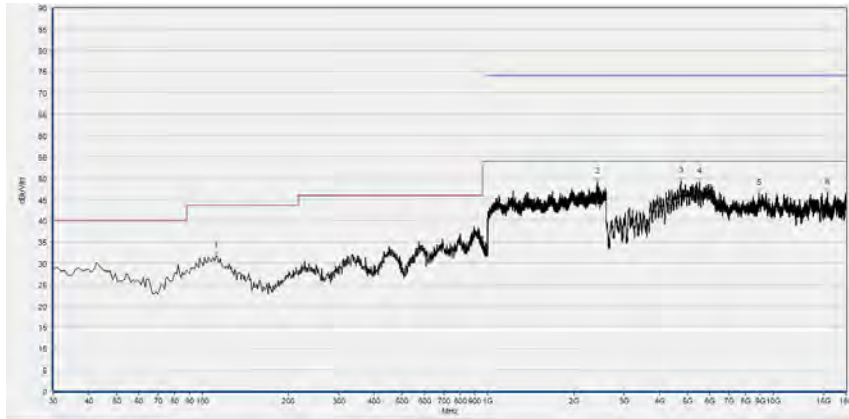
(Antenna Horizontal, 30MHz to 18GHz)



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	31.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2457.600	48.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4925.400	49.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5421.280	49.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9403.720	47.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16466.160	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

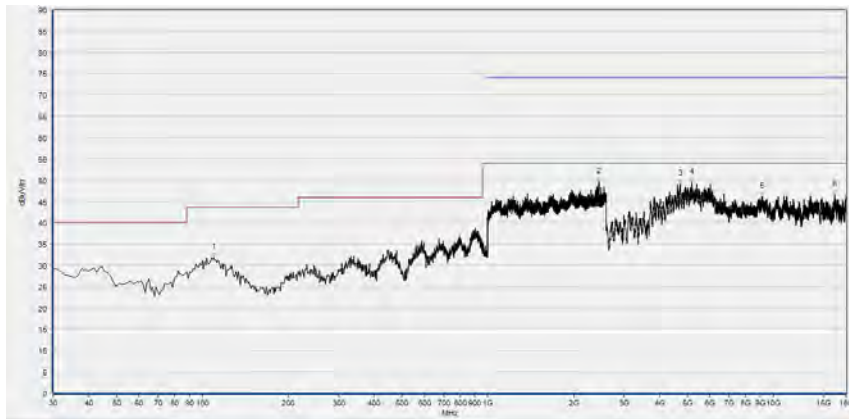
(Antenna Vertical, 30MHz to 18GHz)

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	31.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2418.133	49.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4743.680	49.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5526.000	49.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8907.840	46.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
15520.600	46.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

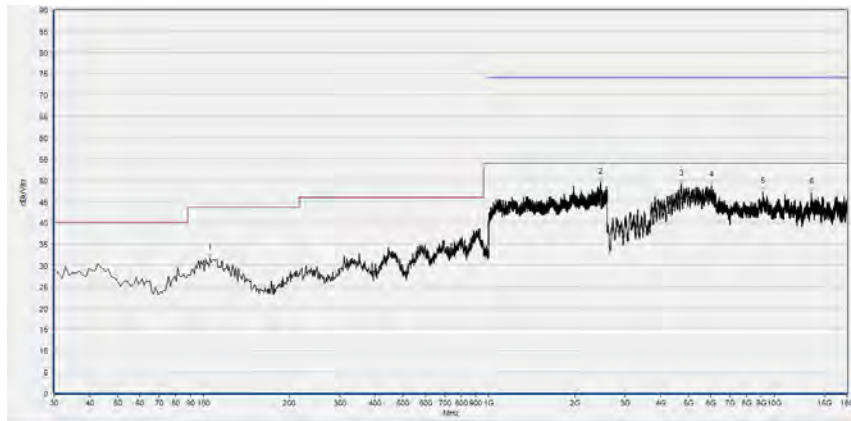
(Antenna Horizontal, 30MHz to 18GHz)



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	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2456.533	49.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4728.280	49.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5184.120	49.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9120.360	46.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16460.000	46.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

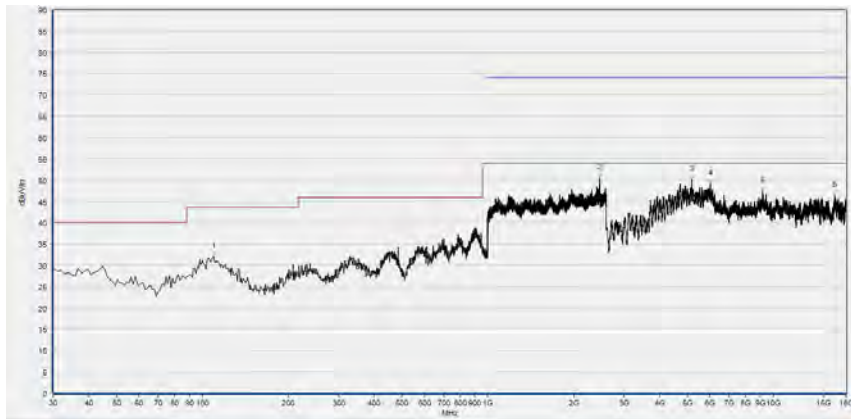
(Antenna Vertical, 30MHz to 18GHz)

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	31.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2462.933	49.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4725.200	49.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6009.560	48.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9141.920	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13484.720	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

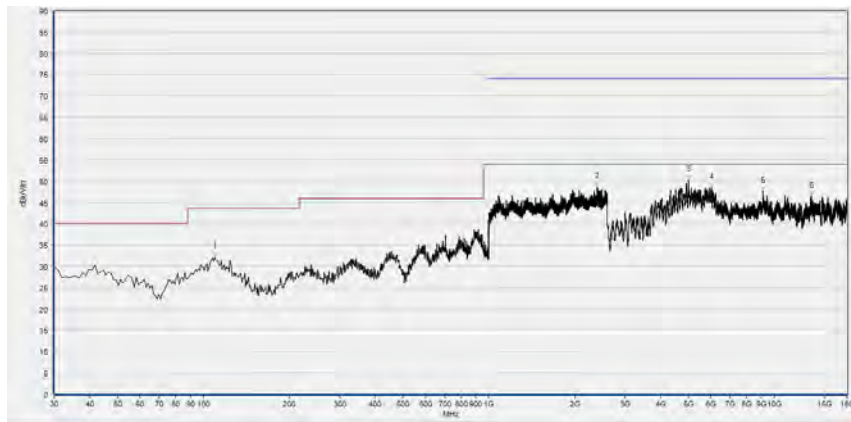


Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.540	31.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2460.800	50.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5174.880	50.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6009.560	49.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9154.240	47.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16450.760	46.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

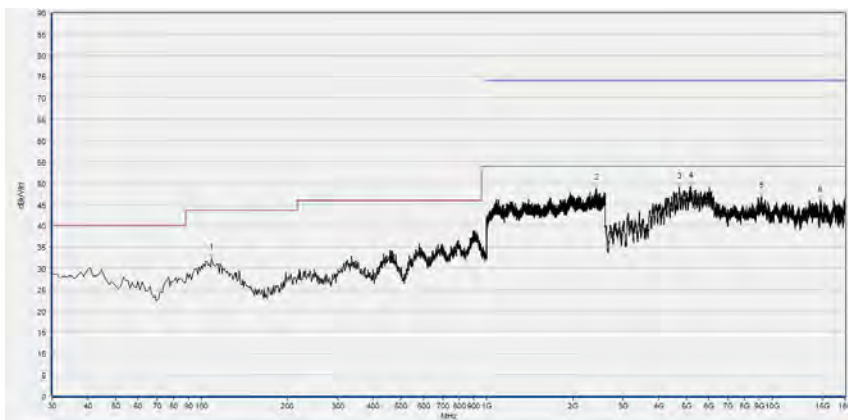
802.11ac (VHT40) Mode

Plot for Channel 3



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	32.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2388.800	48.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5017.800	50.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6018.800	48.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9145.000	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13472.400	46.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

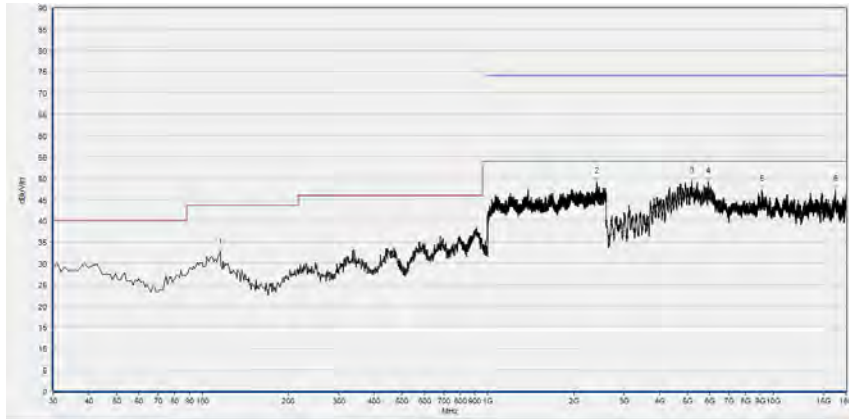
(Antenna Horizontal, 30MHz to 18GHz)



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	32.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2417.067	48.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4715.960	49.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5184.120	49.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9169.640	46.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14744.440	45.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

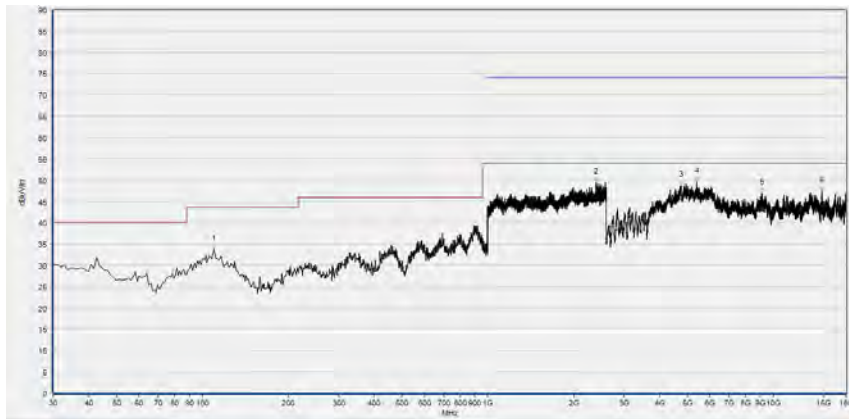
(Antenna Vertical, 30MHz to 18GHz)

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
107.600	33.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2409.600	49.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4312.480	47.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5134.840	49.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9092.640	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13481.640	47.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

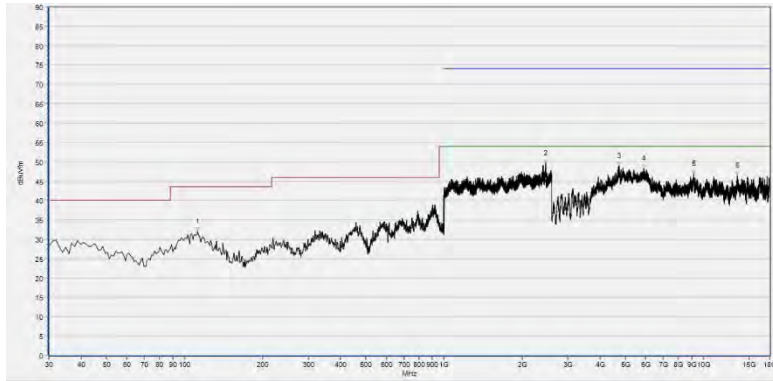
(Antenna Horizontal, 30MHz to 18GHz)



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	33.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2388.800	49.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4765.240	48.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5384.320	49.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9108.040	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14796.800	47.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 9



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	32.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2460.800	49.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4737.520	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5892.520	48.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9160.400	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13466.240	46.38	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	32.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2464.533	49.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	49.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6024.960	49.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9181.960	46.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13580.200	47.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————