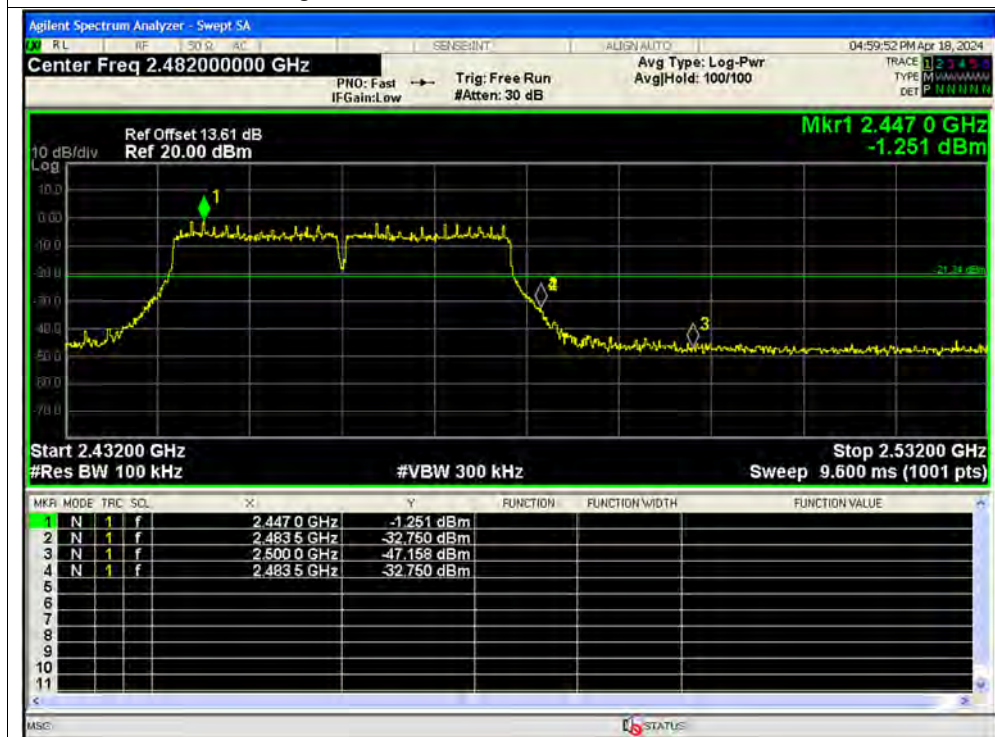


Band Edge NVNT n40 2462MHz Ant1 Ref SISO



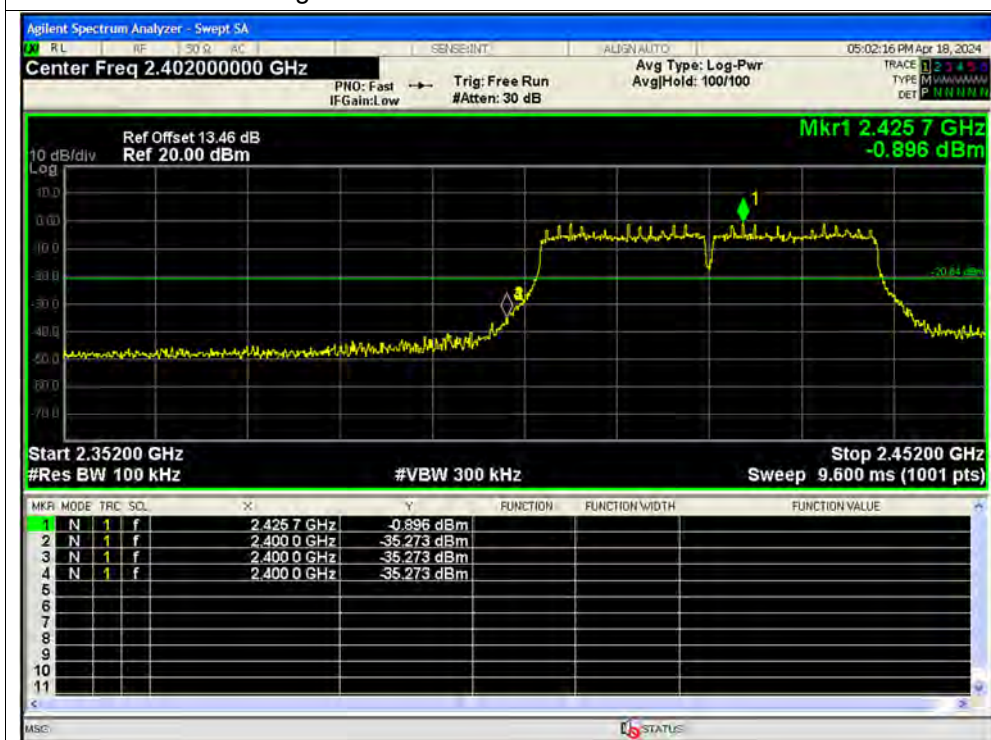
Band Edge NVNT n40 2462MHz Ant1 Emission SISO



Band Edge NVNT n40 2422MHz Ant2 Ref SISO



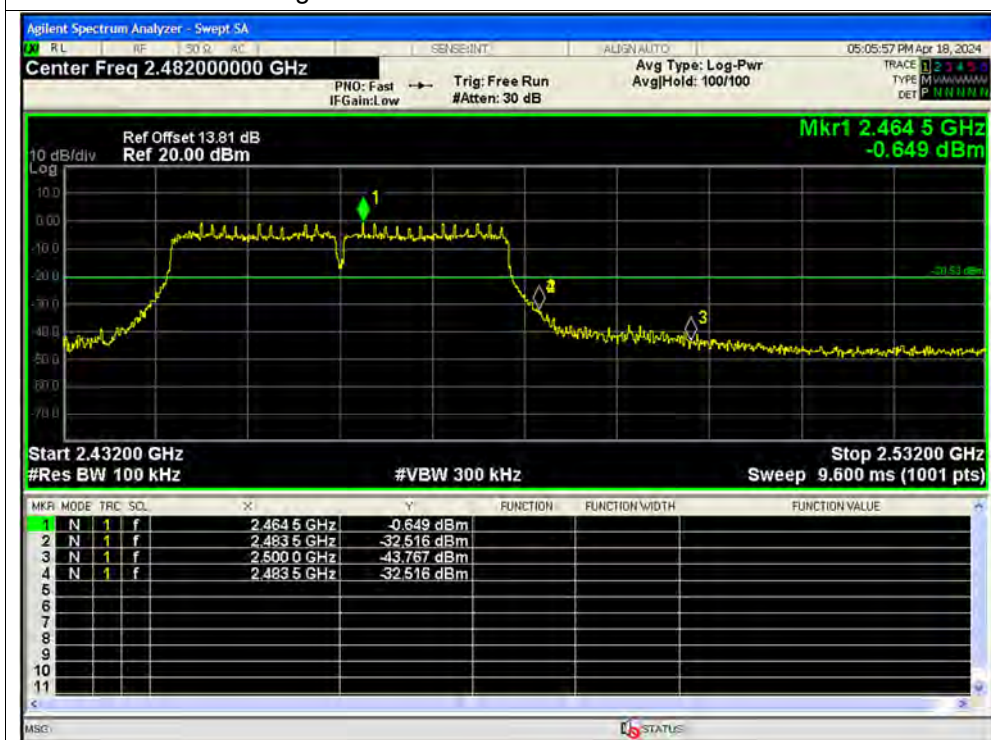
Band Edge NVNT n40 2422MHz Ant2 Emission SISO



Band Edge NVNT n40 2462MHz Ant2 Ref SISO



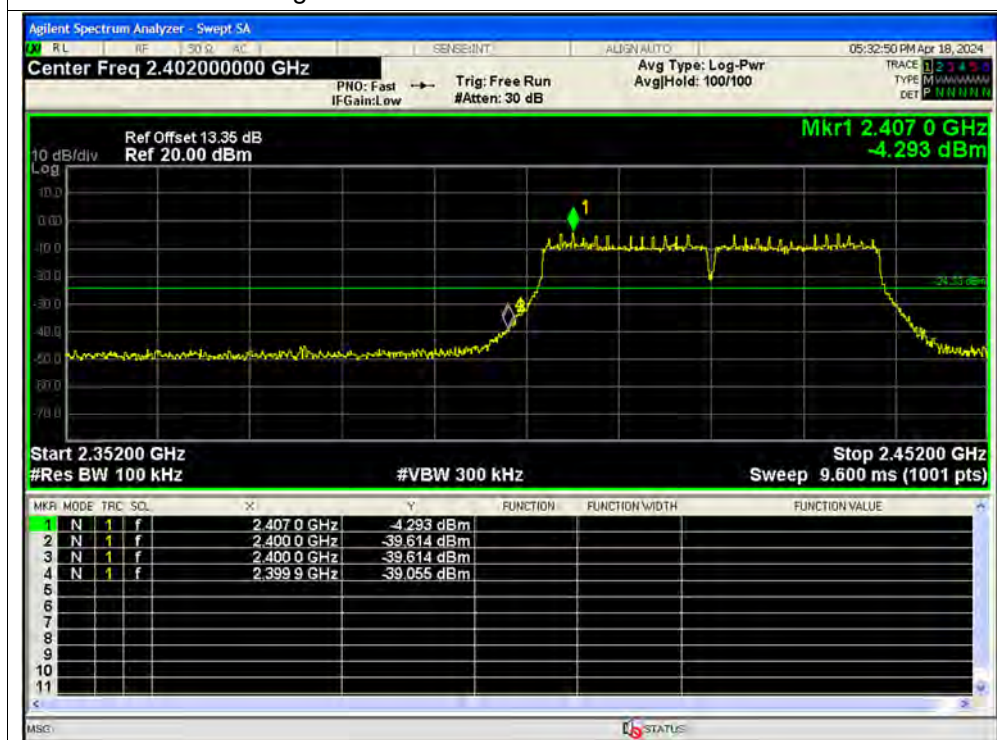
Band Edge NVNT n40 2462MHz Ant2 Emission SISO



Band Edge NVNT n40 2422MHz Ant1 Ref MIMO



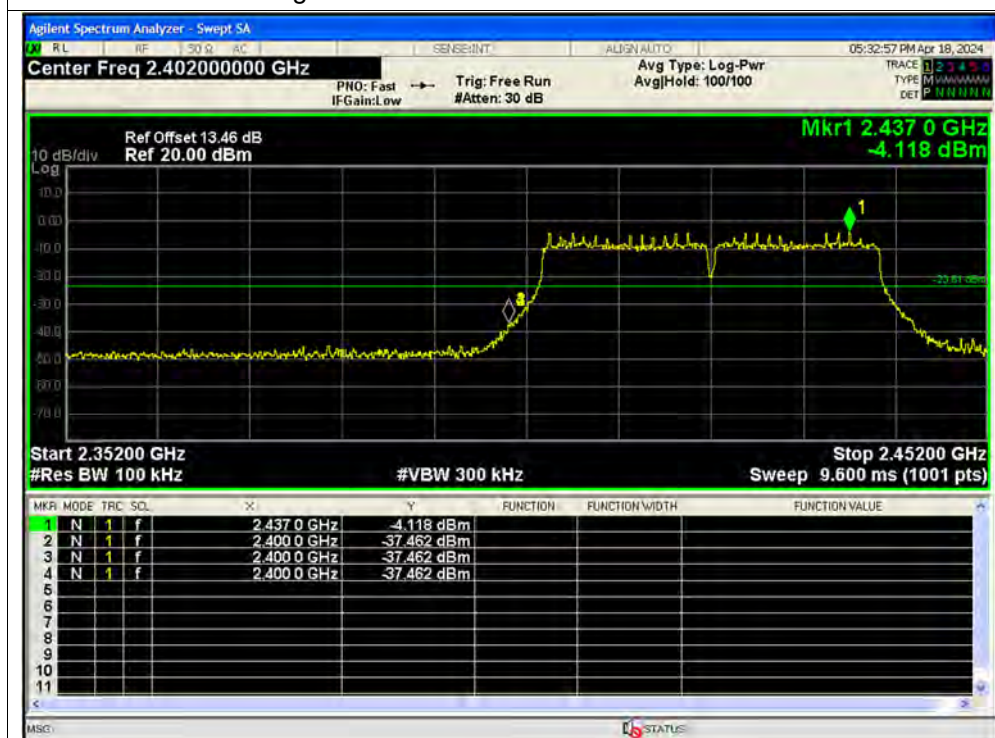
Band Edge NVNT n40 2422MHz Ant1 Emission MIMO



Band Edge NVNT n40 2422MHz Ant2 Ref MIMO



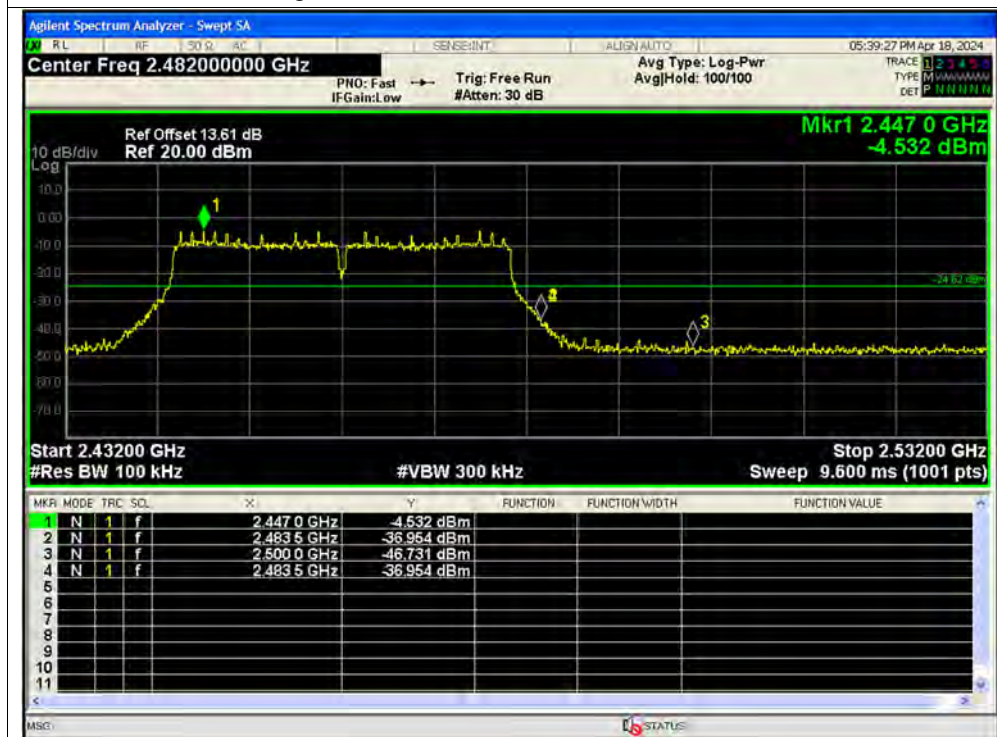
Band Edge NVNT n40 2422MHz Ant2 Emission MIMO



Band Edge NVNT n40 2462MHz Ant1 Ref MIMO



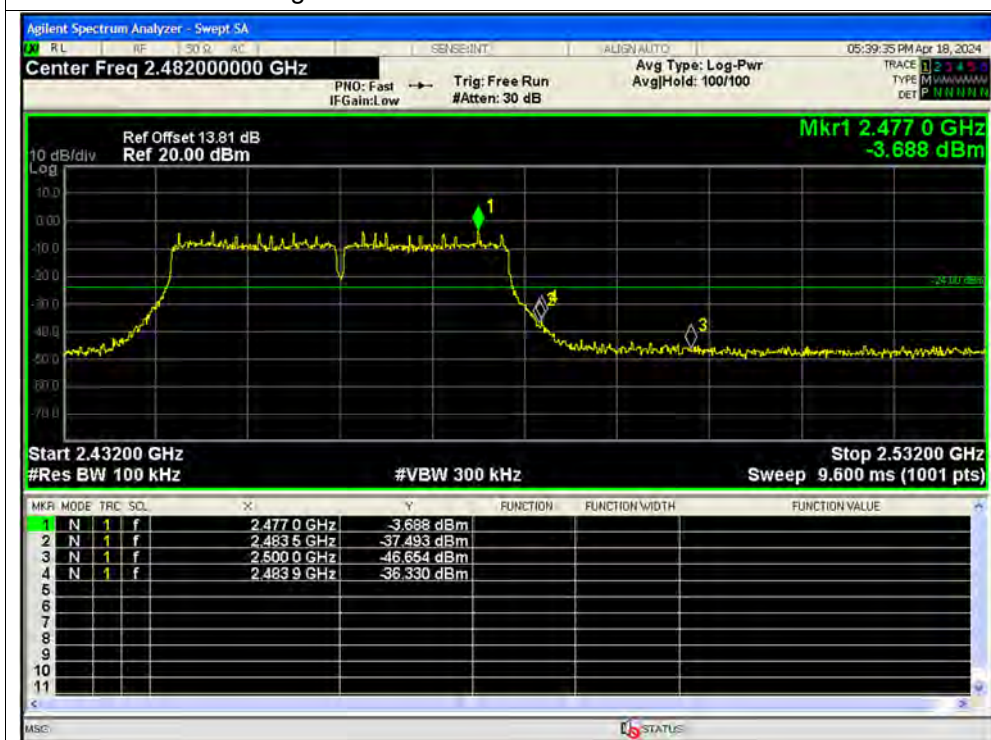
Band Edge NVNT n40 2462MHz Ant1 Emission MIMO



Band Edge NVNT n40 2462MHz Ant2 Ref MIMO



Band Edge NVNT n40 2462MHz Ant2 Emission MIMO



**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 SISO	2412	Ant1	-6.46	0	-6.46	8	Pass
NVNT	b SISO	2442	Ant1	-6.82	0	-6.82	8	Pass
NVNT	b SISO	2472	Ant1	-7.32	0	-7.32	8	Pass
NVNT	b SISO	2412	Ant2	-6.77	0	-6.77	8	Pass
NVNT	b SISO	2442	Ant2	-7.24	0	-7.24	8	Pass
NVNT	b SISO	2472	Ant2	-6.39	0	-6.39	8	Pass
NVNT	g SISO	2412	Ant1	-11.72	0	-11.72	8	Pass
NVNT	g SISO	2442	Ant1	-11.28	0	-11.28	8	Pass
NVNT	g SISO	2472	Ant1	-11.41	0	-11.41	8	Pass
NVNT	g SISO	2412	Ant2	-10.75	0	-10.75	8	Pass
NVNT	g SISO	2442	Ant2	-11.4	0	-11.4	8	Pass
NVNT	g SISO	2472	Ant2	-11.43	0	-11.43	8	Pass
NVNT	n20 SISO	2412	Ant1	-12.59	0	-12.59	8	Pass
NVNT	n20 SISO	2442	Ant1	-13.29	0	-13.29	8	Pass
NVNT	n20 SISO	2472	Ant1	-13.24	0	-13.24	8	Pass
NVNT	n20 SISO	2412	Ant2	-12.62	0	-12.62	8	Pass
NVNT	n20 SISO	2442	Ant2	-12.57	0	-12.57	8	Pass
NVNT	n20 SISO	2472	Ant2	-13.11	0	-13.11	8	Pass
NVNT	n20 MIMO	2412	Ant1	-15.97	0	-15.97	8	Pass
NVNT	n20 MIMO	2412	Ant2	-14.61	0	-14.61	8	Pass
NVNT	n20 MIMO	2412	Sum	-12.23	0	-12.23	8	Pass
NVNT	n20 MIMO	2442	Ant1	-16.51	0	-16.51	8	Pass
NVNT	n20 MIMO	2442	Ant2	-15.77	0	-15.77	8	Pass
NVNT	n20 MIMO	2442	Sum	-13.11	0	-13.11	8	Pass
NVNT	n20 MIMO	2472	Ant1	-16.66	0	-16.66	8	Pass
NVNT	n20 MIMO	2472	Ant2	-16.06	0	-16.06	8	Pass
NVNT	n20 MIMO	2472	Sum	-13.34	0	-13.34	8	Pass
NVNT	n40 SISO	2422	Ant1	-15.28	0	-15.28	8	Pass
NVNT	n40 SISO	2442	Ant1	-15.67	0	-15.67	8	Pass
NVNT	n40 SISO	2462	Ant1	-15.85	0	-15.85	8	Pass
NVNT	n40 SISO	2422	Ant2	-14.68	0	-14.68	8	Pass
NVNT	n40 SISO	2442	Ant2	-14.94	0	-14.94	8	Pass
NVNT	n40 SISO	2462	Ant2	-14.83	0	-14.83	8	Pass
NVNT	n40 MIMO	2422	Ant1	-18.66	0	-18.66	8	Pass



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NVNT	n40 MIMO	2422	Ant2	-18.18	0	-18.18	8	Pass
NVNT	n40 MIMO	2422	Sum	-15.4	0	-15.4	8	Pass
NVNT	n40 MIMO	2442	Ant1	-18.75	0	-18.75	8	Pass
NVNT	n40 MIMO	2442	Ant2	-18.51	0	-18.51	8	Pass
NVNT	n40 MIMO	2442	Sum	-15.62	0	-15.62	8	Pass
NVNT	n40 MIMO	2462	Ant1	-19.16	0	-19.16	8	Pass
NVNT	n40 MIMO	2462	Ant2	-18.15	0	-18.15	8	Pass
NVNT	n40 MIMO	2462	Sum	-15.62	0	-15.62	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1 SISO



PSD NVNT b 2442MHz Ant1 SISO





PSD NVNT b 2472MHz Ant1 SISO



PSD NVNT b 2412MHz Ant2 SISO



PSD NVNT b 2442MHz Ant2 SISO

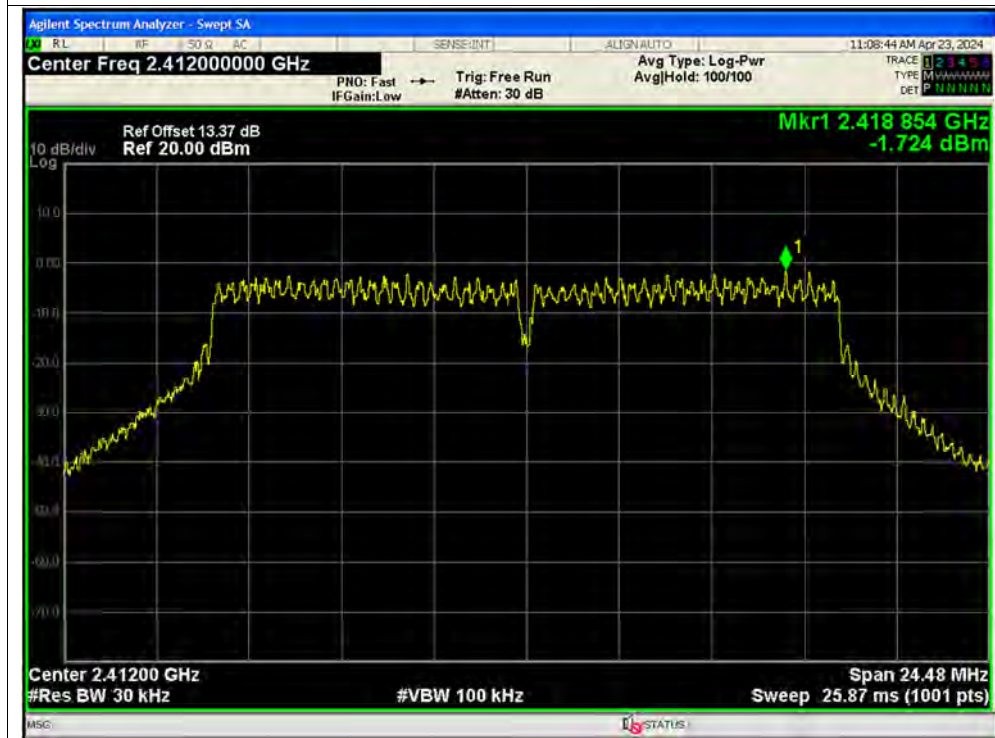


PSD NVNT b 2472MHz Ant2 SISO





PSD NVNT g 2412MHz Ant1 SISO



PSD NVNT g 2442MHz Ant1 SISO





PSD NVNT g 2472MHz Ant1 SISO



PSD NVNT g 2412MHz Ant2 SISO





PSD NVNT g 2442MHz Ant2 SISO



PSD NVNT g 2472MHz Ant2 SISO





PSD NVNT n20 2412MHz Ant1 SISO



PSD NVNT n20 2442MHz Ant1 SISO





PSD NVNT n20 2472MHz Ant1 SISO

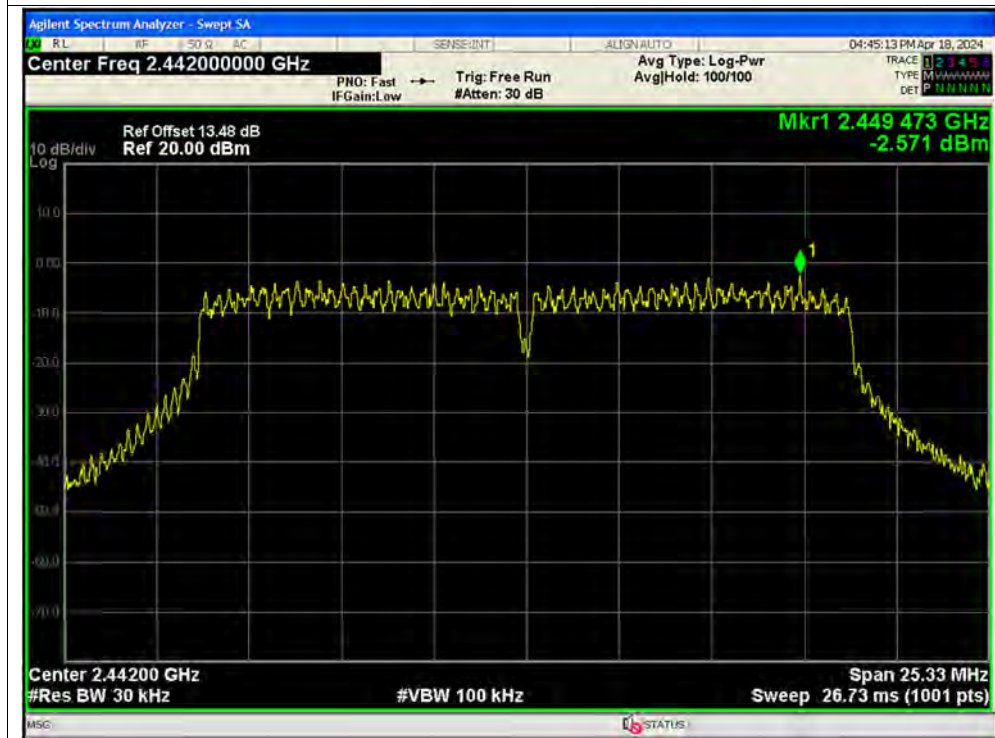


PSD NVNT n20 2412MHz Ant2 SISO





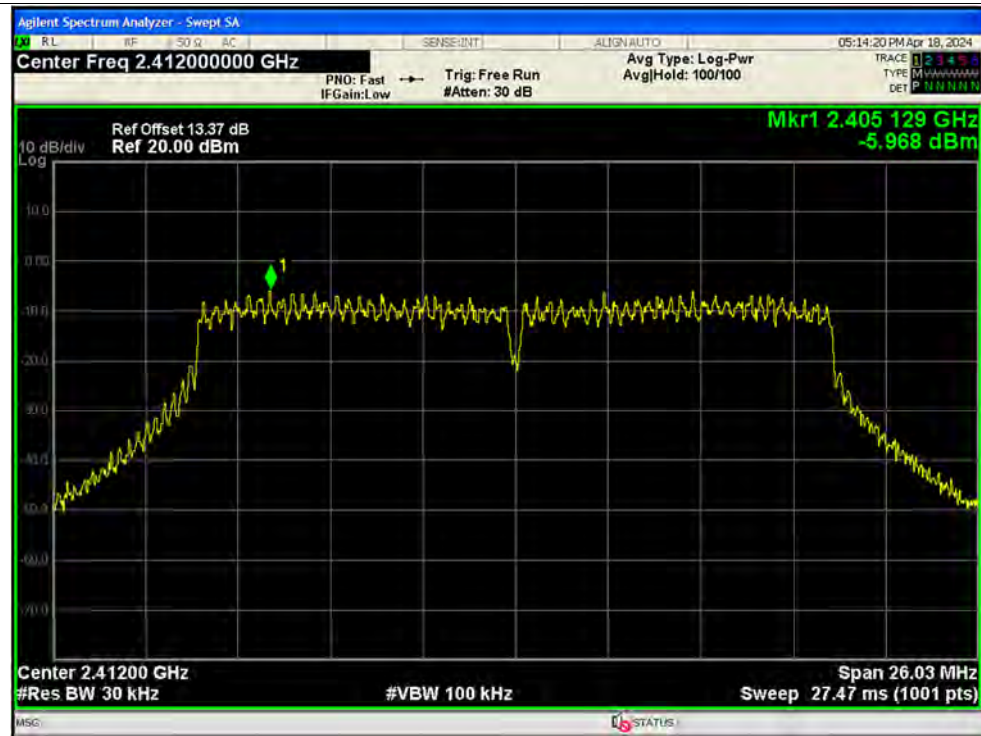
PSD NVNT n20 2442MHz Ant2 SISO



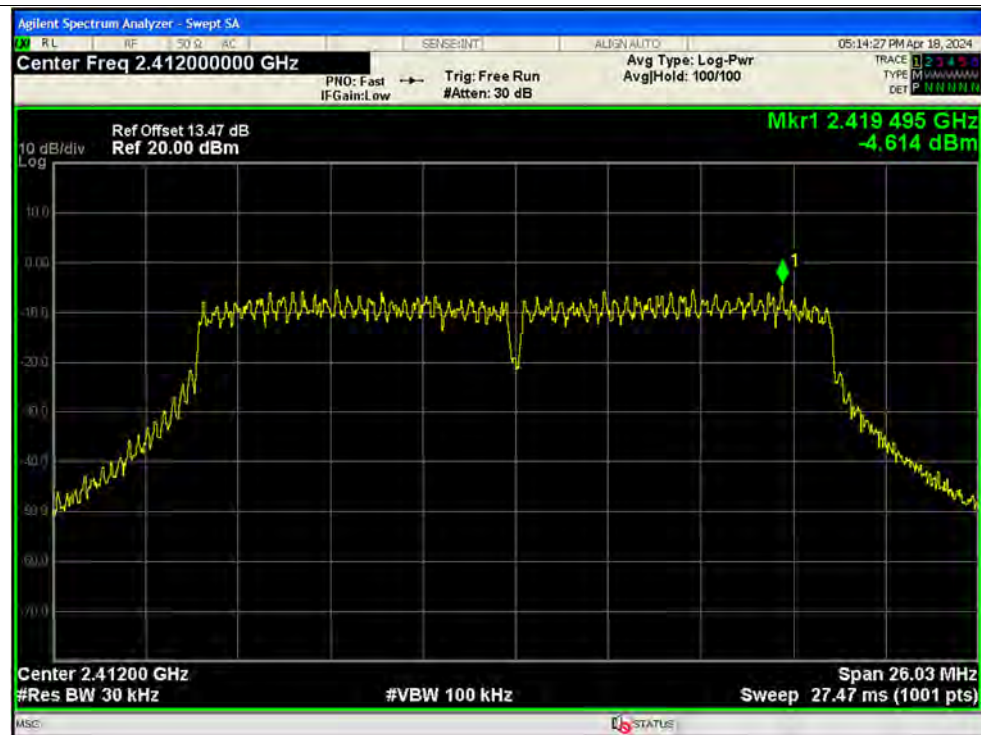
PSD NVNT n20 2472MHz Ant2 SISO



PSD NVNT n20 2412MHz Ant1 MIMO



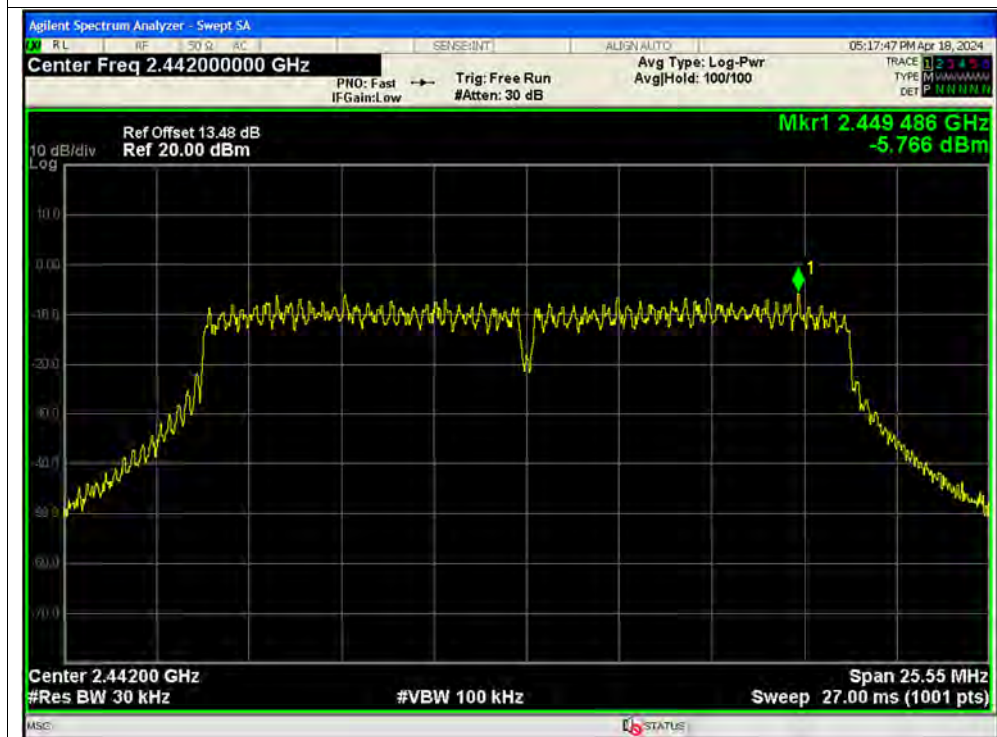
PSD NVNT n20 2412MHz Ant2 MIMO



PSD NVNT n20 2442MHz Ant1 MIMO

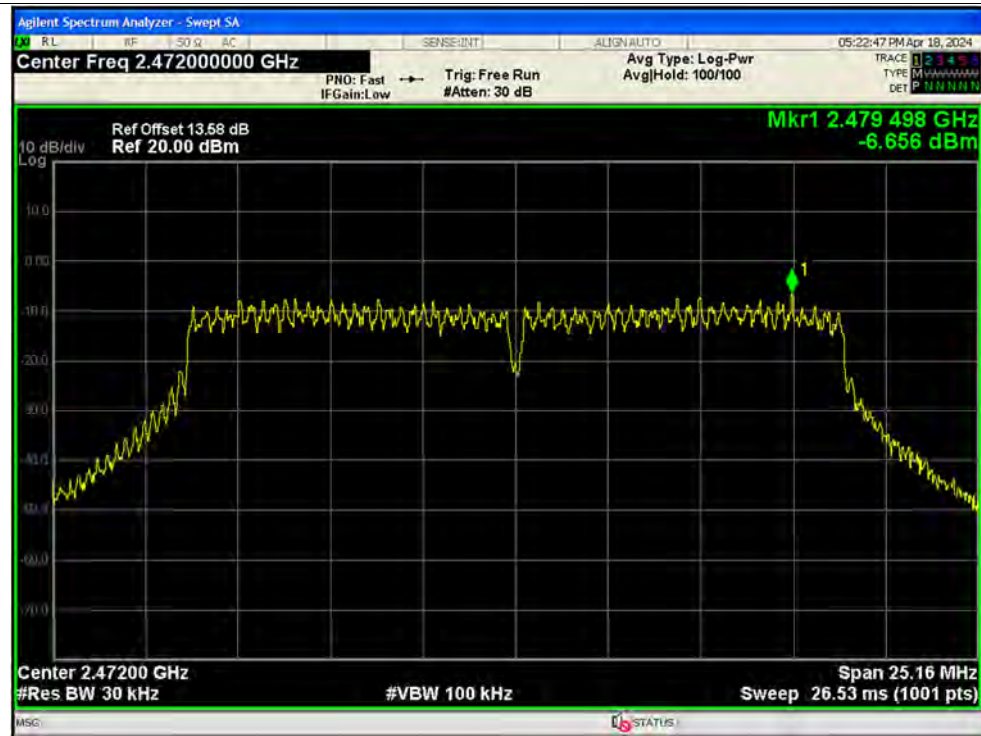


PSD NVNT n20 2442MHz Ant2 MIMO





PSD NVNT n20 2472MHz Ant1 MIMO



PSD NVNT n20 2472MHz Ant2 MIMO





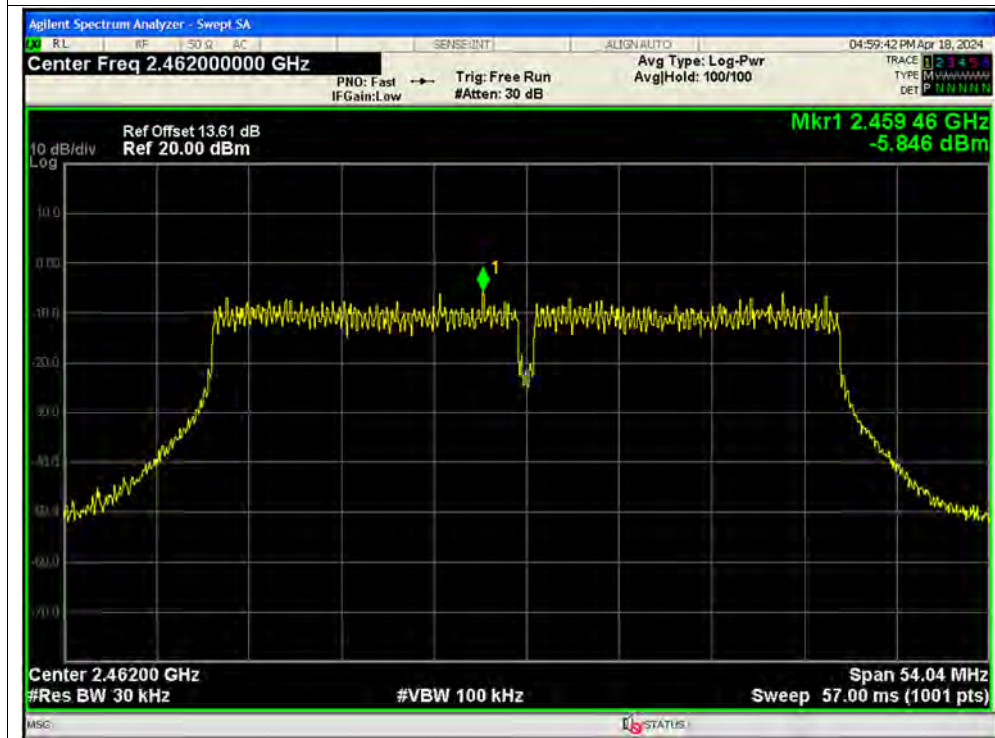
PSD NVNT n40 2422MHz Ant1 SISO



PSD NVNT n40 2442MHz Ant1 SISO



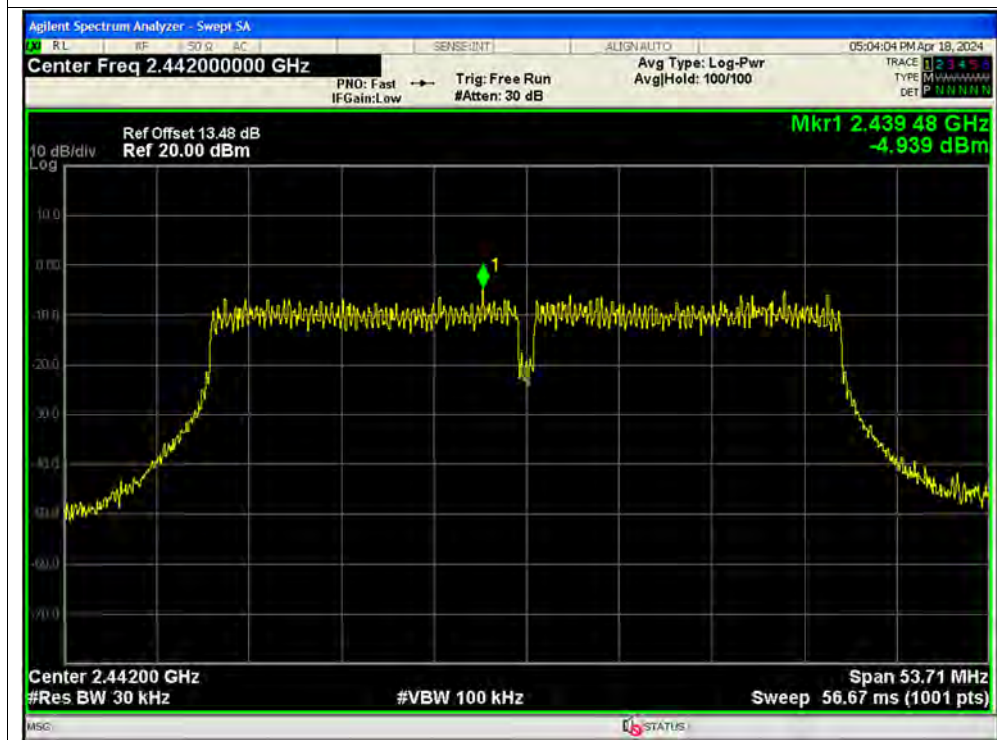
PSD NVNT n40 2462MHz Ant1 SISO



PSD NVNT n40 2422MHz Ant2 SISO



PSD NVNT n40 2442MHz Ant2 SISO



PSD NVNT n40 2462MHz Ant2 SISO

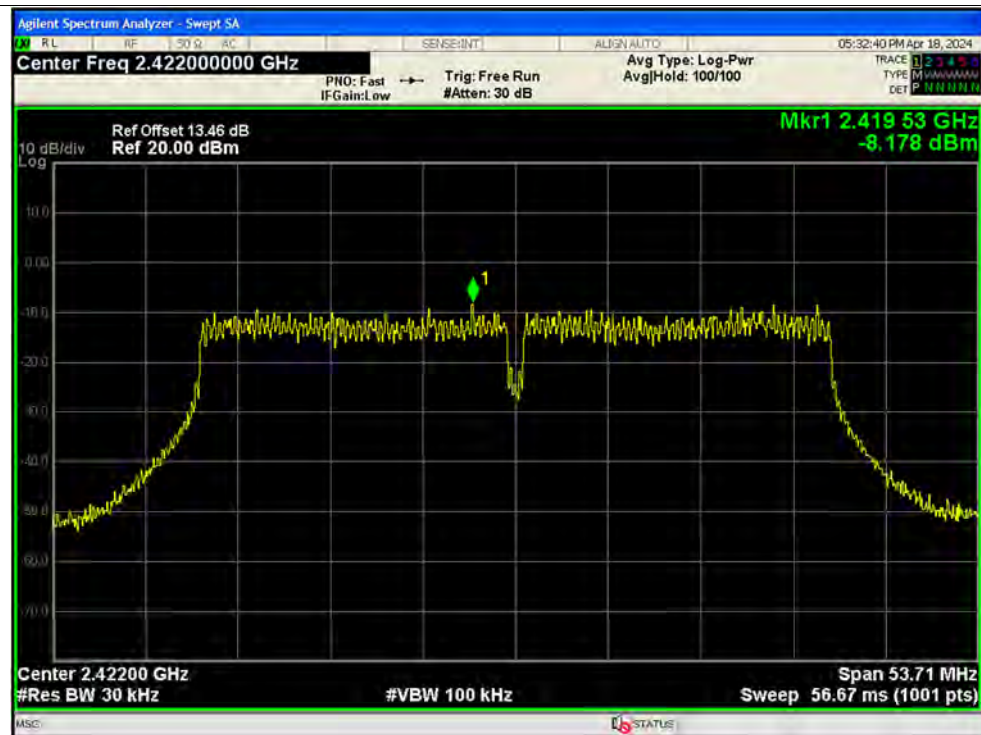




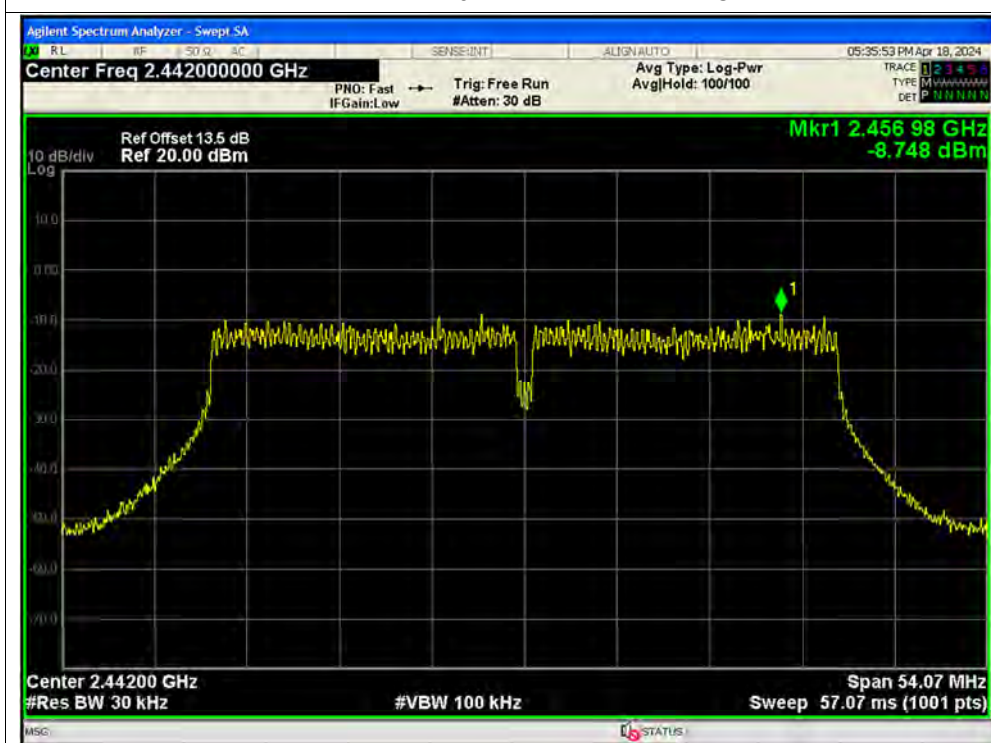
PSD NVNT n40 2422MHz Ant1 MIMO



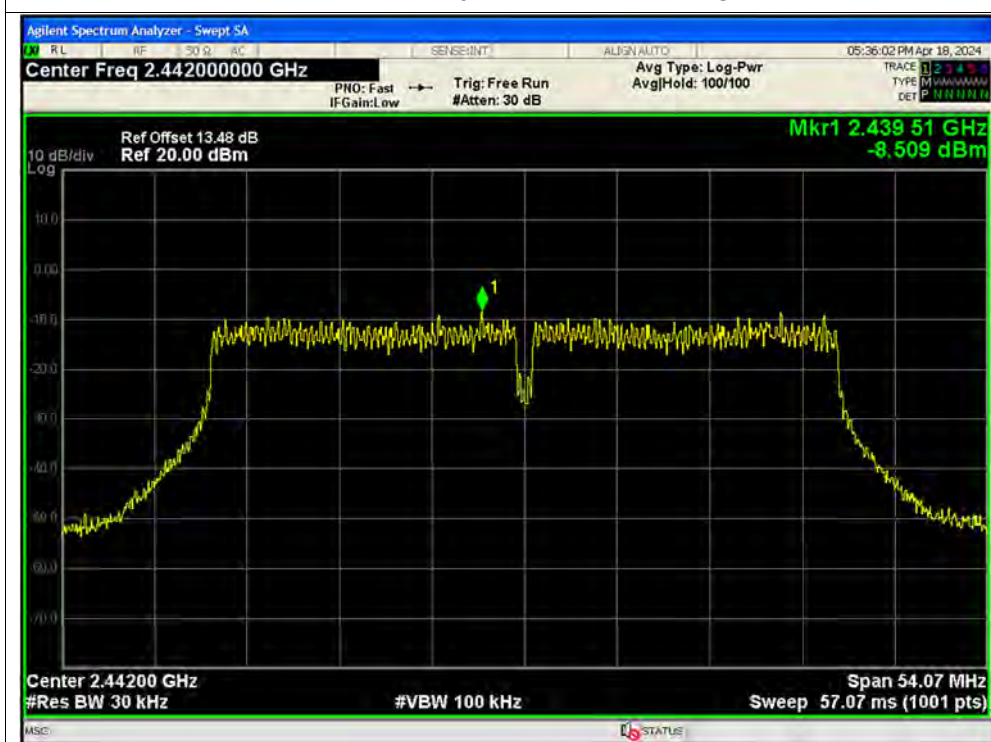
PSD NVNT n40 2422MHz Ant2 MIMO



PSD NVNT n40 2442MHz Ant1 MIMO



PSD NVNT n40 2442MHz Ant2 MIMO



PSD NVNT n40 2462MHz Ant1 MIMO



PSD NVNT n40 2462MHz Ant2 MIMO





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+ PC Adapter + PC + WIFI TX

Test voltage: AC 120V/60Hz

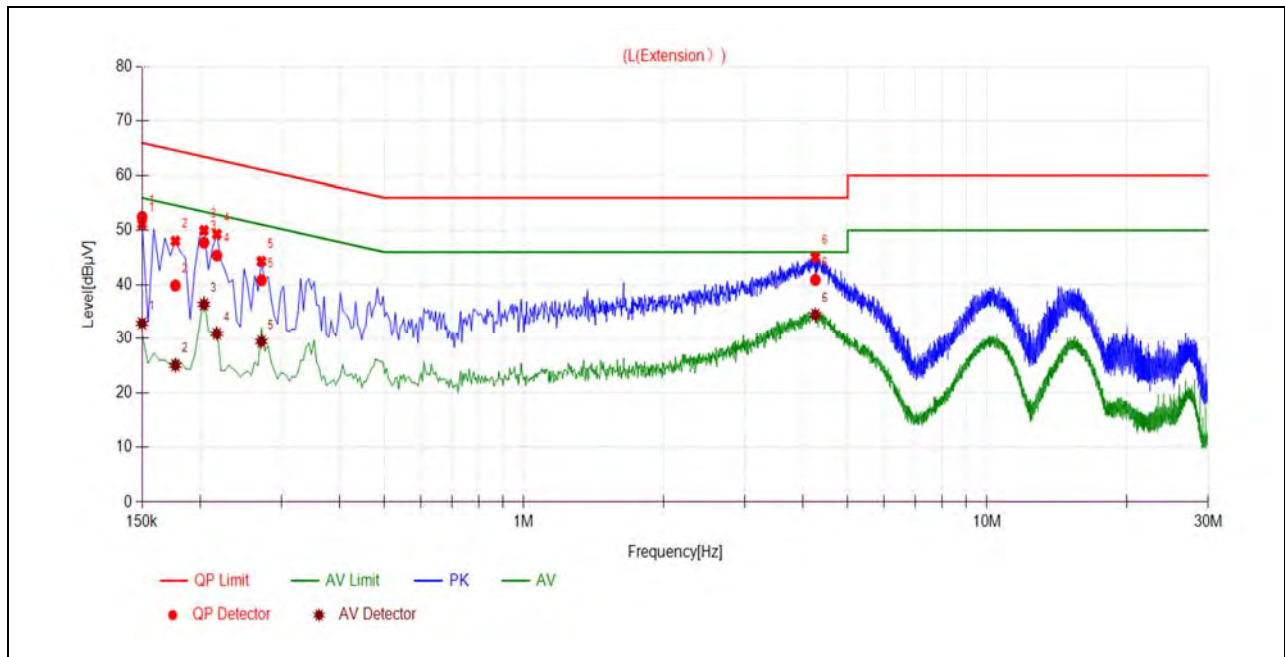
The measurement results are obtained as below:

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

U_R : Receiver Reading

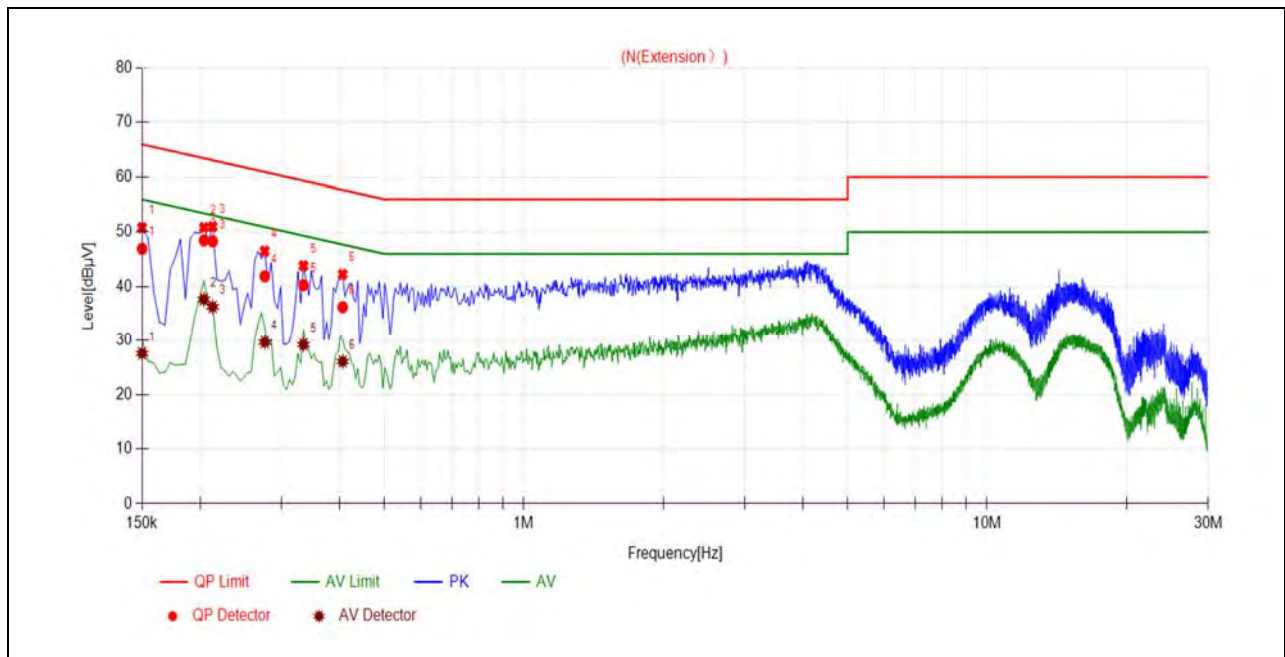
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	52.48	32.85	66.00	56.00	Line	PASS
2	0.1770	39.86	25.01	64.63	54.63		PASS
3	0.2040	47.75	36.38	63.45	53.45		PASS
4	0.2175	45.38	30.88	62.91	52.91		PASS
5	0.2715	40.81	29.41	61.07	51.07		PASS
6	4.2587	40.90	34.45	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	0.1500	46.93	27.59	66.00	56.00	Neutral	PASS
2	0.2040	48.49	37.65	63.45	53.45		PASS
3	0.2130	48.32	36.29	63.09	53.09		PASS
4	0.2760	41.89	29.66	60.94	50.94		PASS
5	0.3345	40.28	29.22	59.34	49.34		PASS
6	0.4065	36.22	26.09	57.72	47.72		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

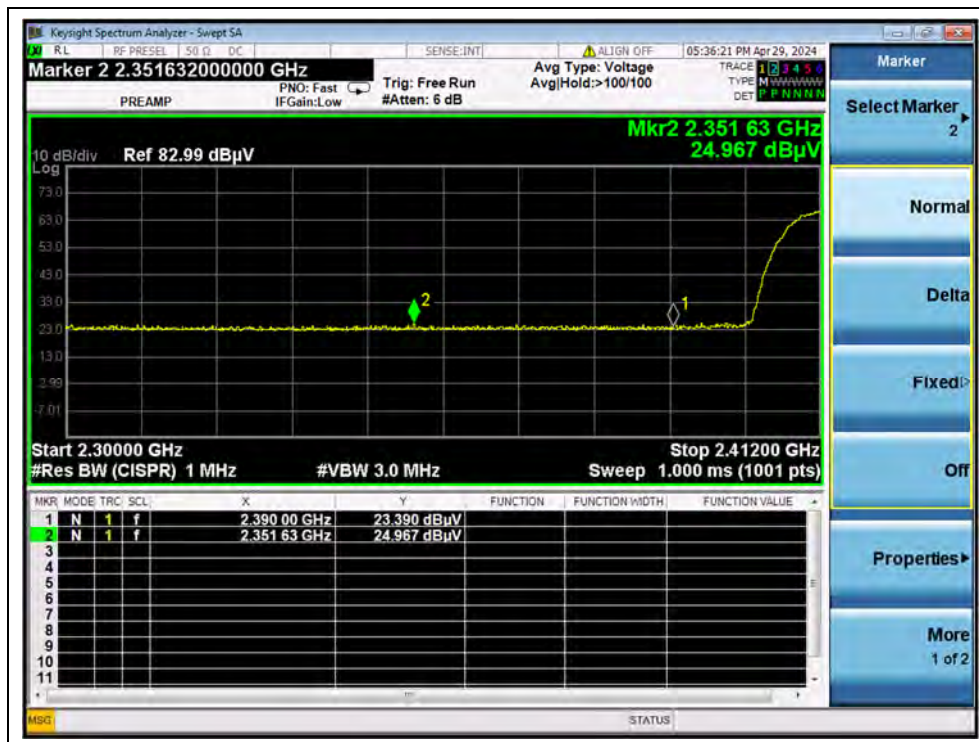
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

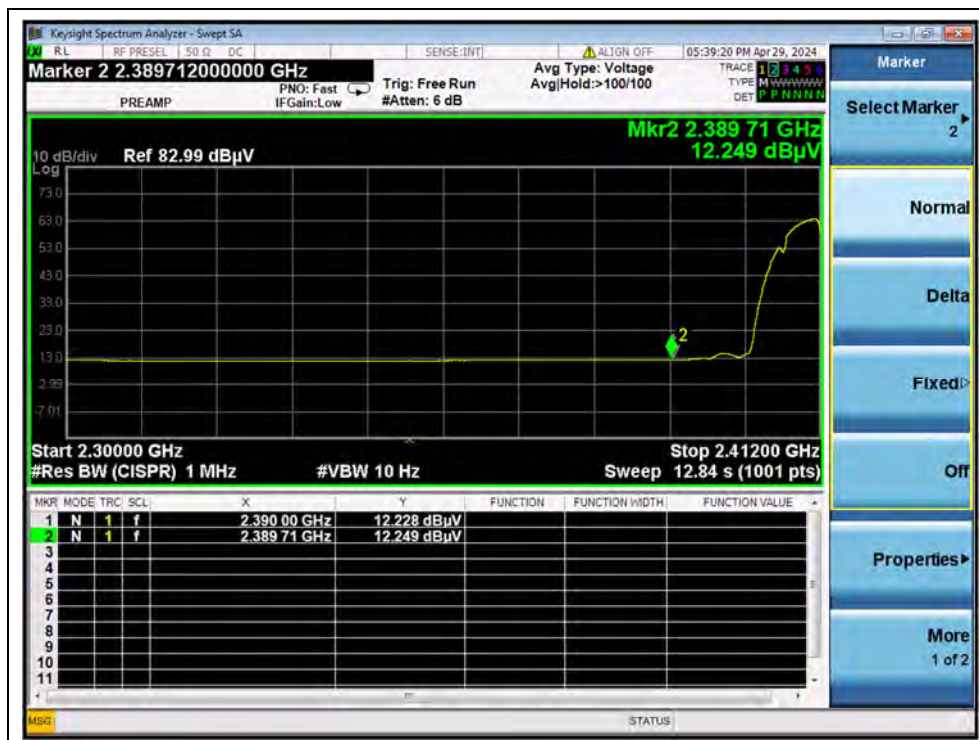
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Mode

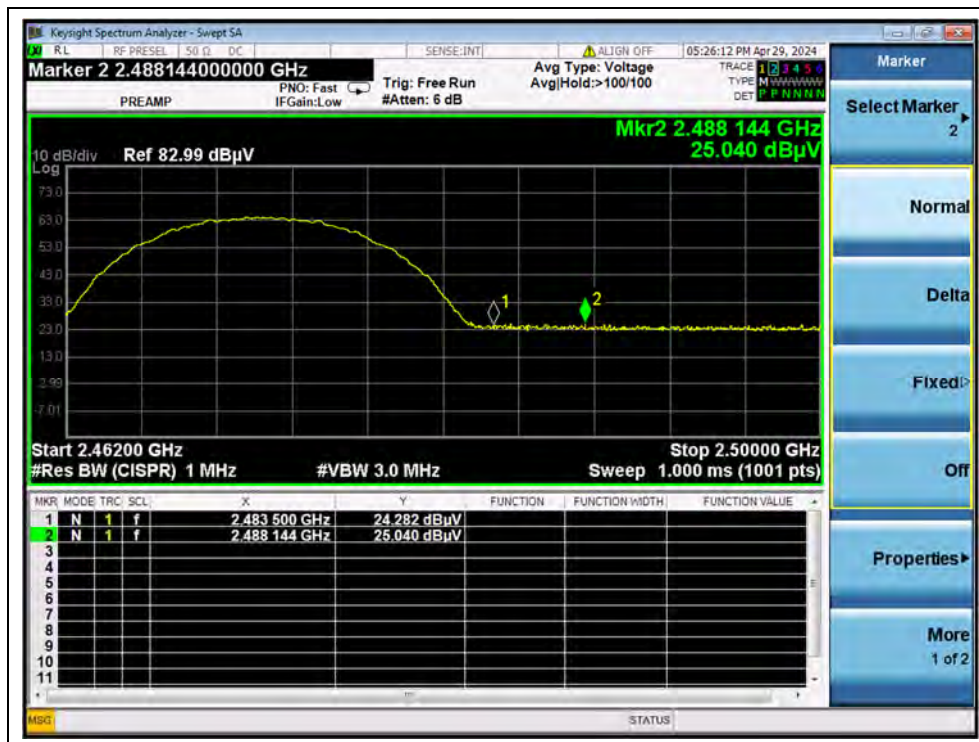
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2351.63	PK	24.97	6.74	27.20	58.91	74	PASS
0	2389.71	AV	12.25	6.74	27.20	46.19	54	PASS
39	2488.14	PK	25.04	6.74	27.20	58.98	74	PASS
39	2483.50	AV	12.52	6.74	27.20	46.46	54	PASS



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



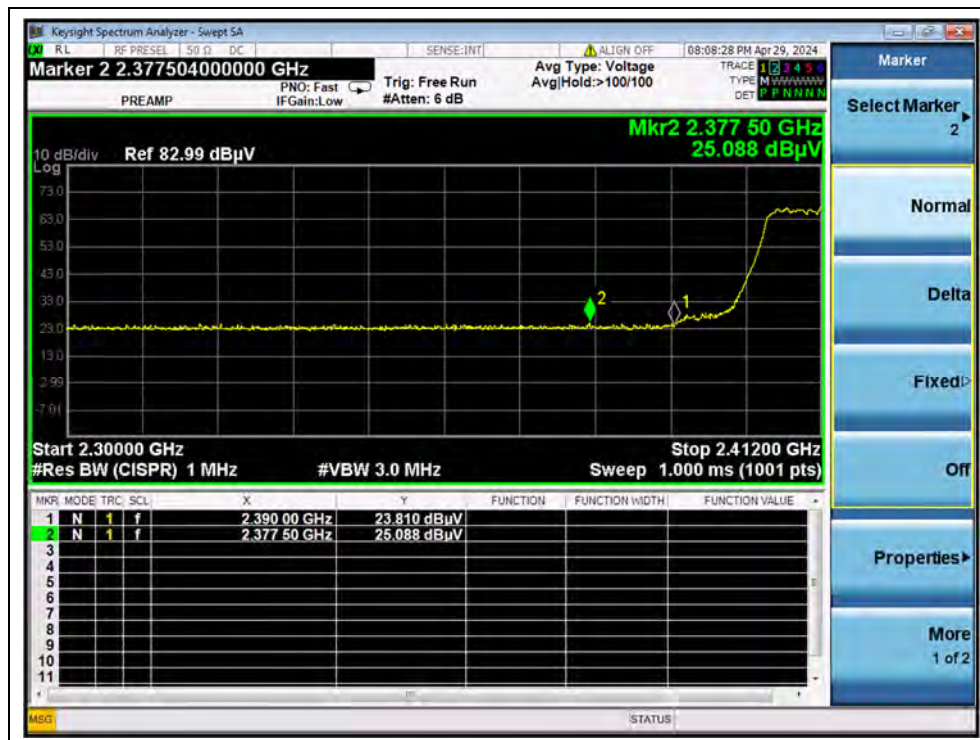
(PEAK, Channel 13, 802.11b)



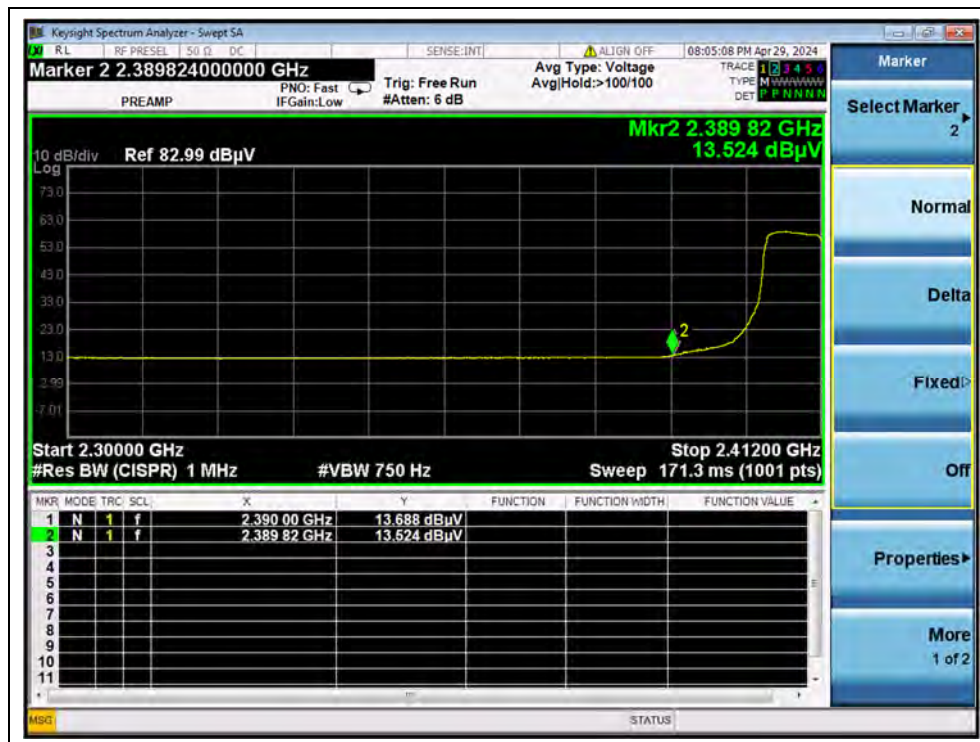
(AVERAGE, Channel 13, 802.11b)

**802.11g Mode**

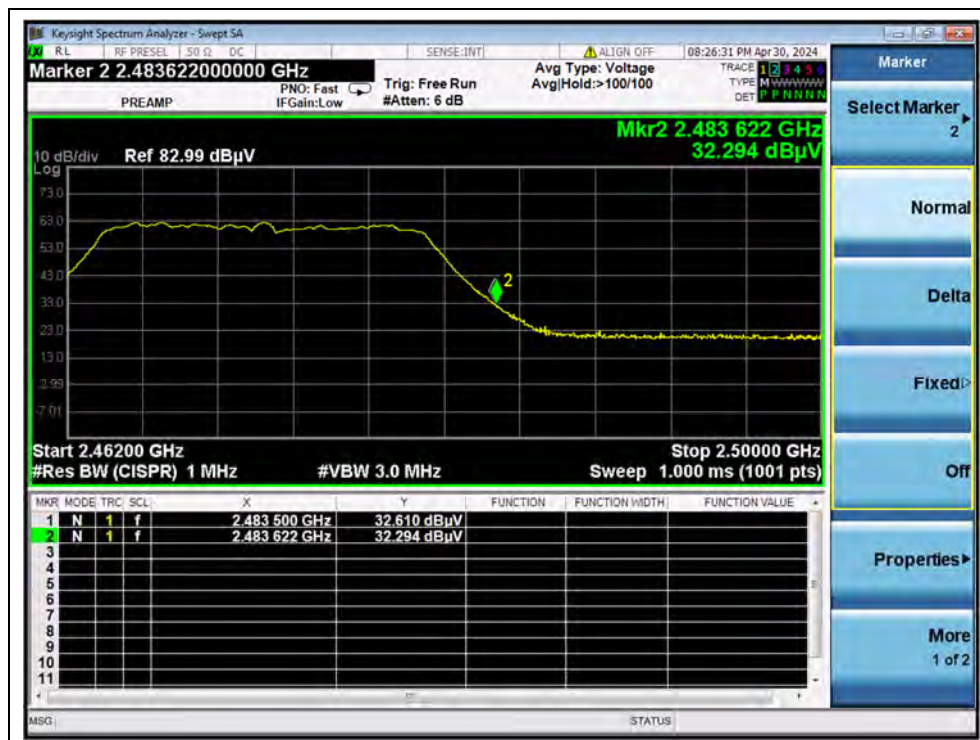
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2377.50	PK	25.09	6.74	27.20	59.03	74	PASS
0	2390.00	AV	13.39	6.74	27.20	47.33	54	PASS
39	2483.50	PK	32.61	6.74	27.20	66.55	74	PASS
39	2483.50	AV	16.79	6.74	27.20	50.73	54	PASS



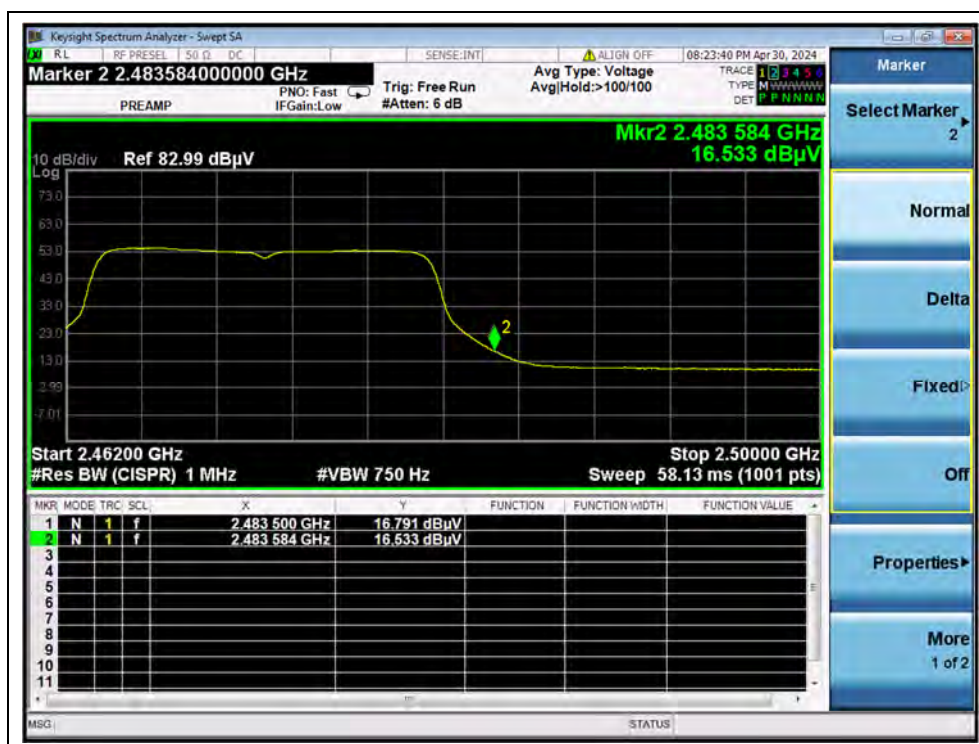
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



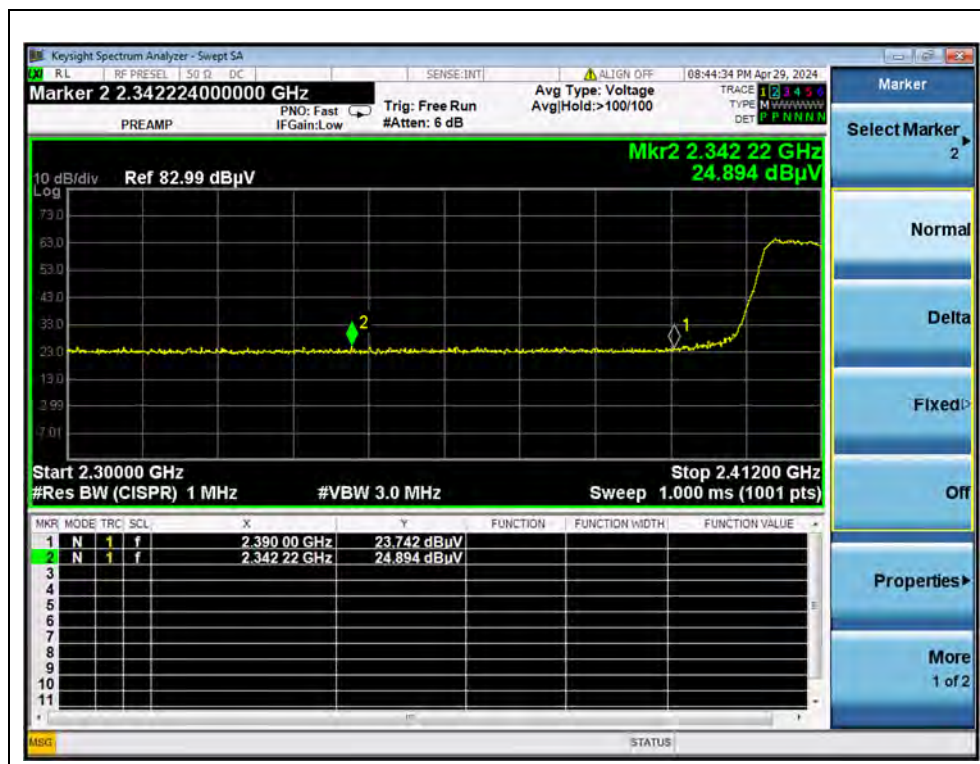
(PEAK, Channel 13, 802.11g)



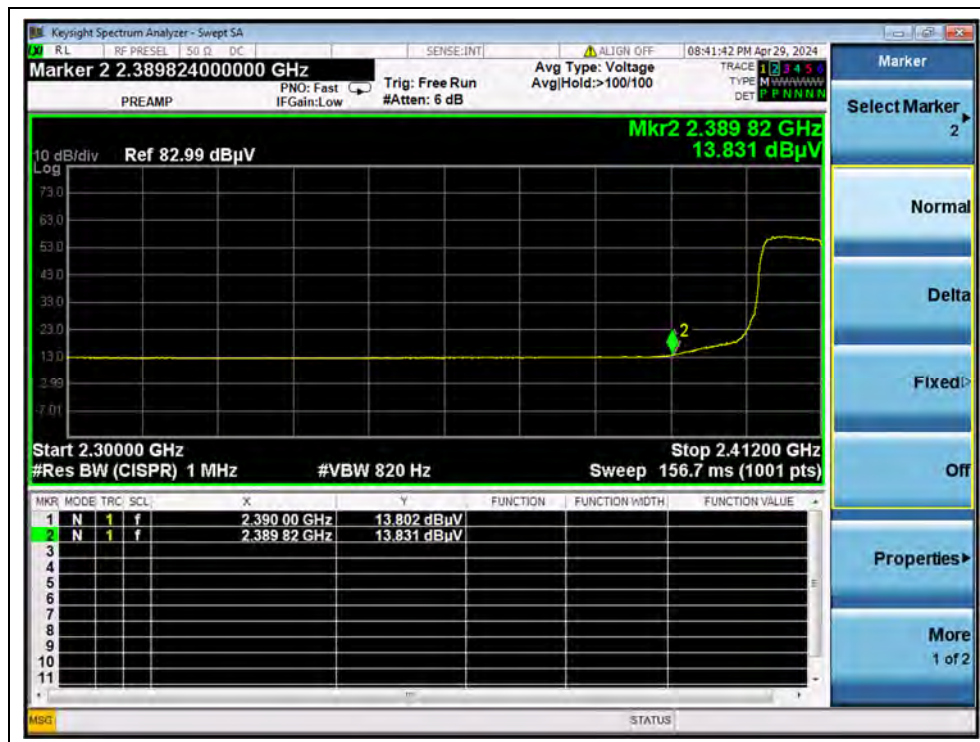
(AVERAGE, Channel 13, 802.11g)

**802.11n (HT20) Mode**

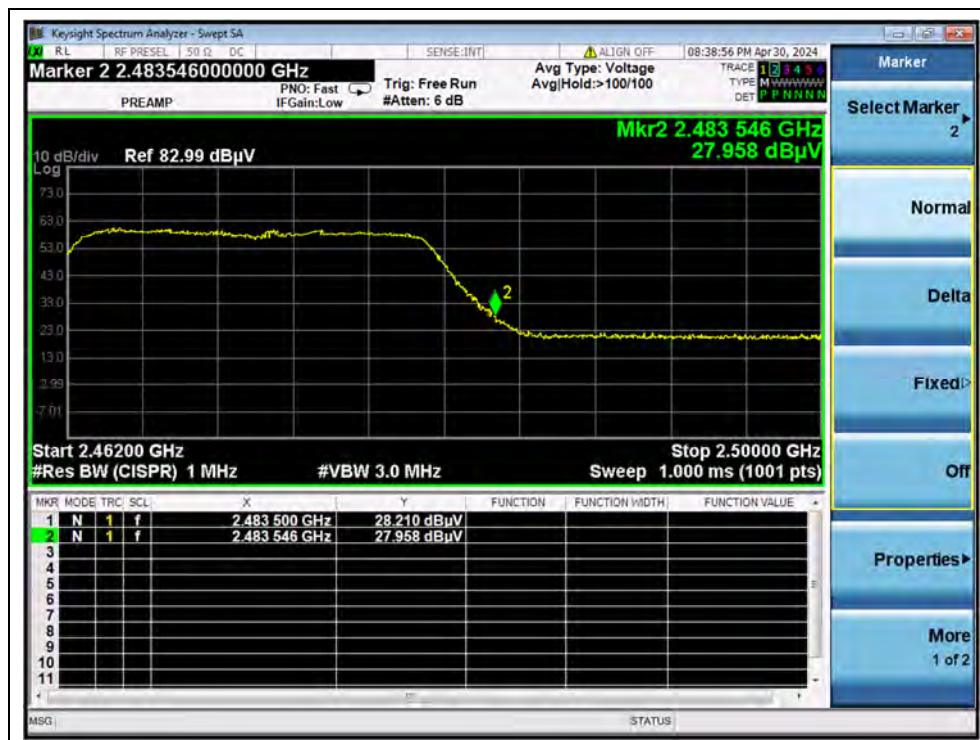
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2342.22	PK	24.89	6.74	27.20	58.83	74	PASS
1	2389.82	AV	13.83	6.74	27.20	47.77	54	PASS
13	2483.50	PK	28.21	6.74	27.20	62.15	74	PASS
13	2483.50	AV	16.22	6.74	27.20	50.16	54	PASS



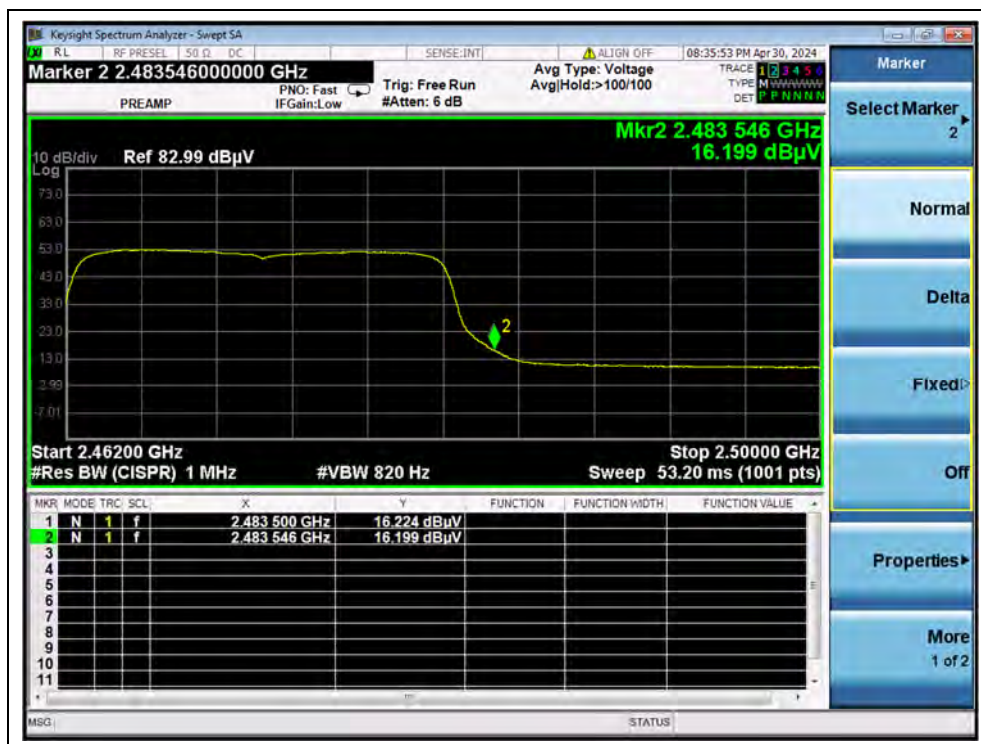
(PEAK, Channel 1, 802.11n (HT20))



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



(PEAK, Channel 13, 802.11n (HT20))



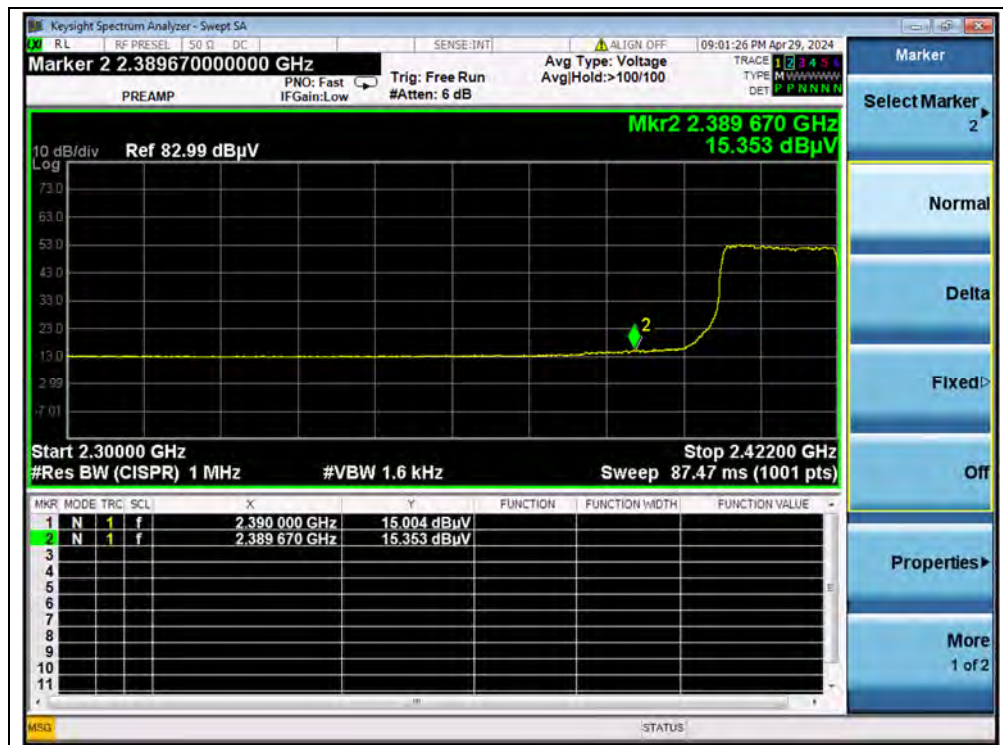
(AVERAGE, Channel 13, 802.11n (HT20))

**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	2385.28	PK	25.87	6.74	27.20	59.81	74	PASS
3	2389.67	AV	15.35	6.74	27.20	49.29	54	PASS
11	2483.50	PK	35.36	6.74	27.20	69.30	74	PASS
11	2483.50	AV	16.72	6.74	27.20	50.66	54	PASS



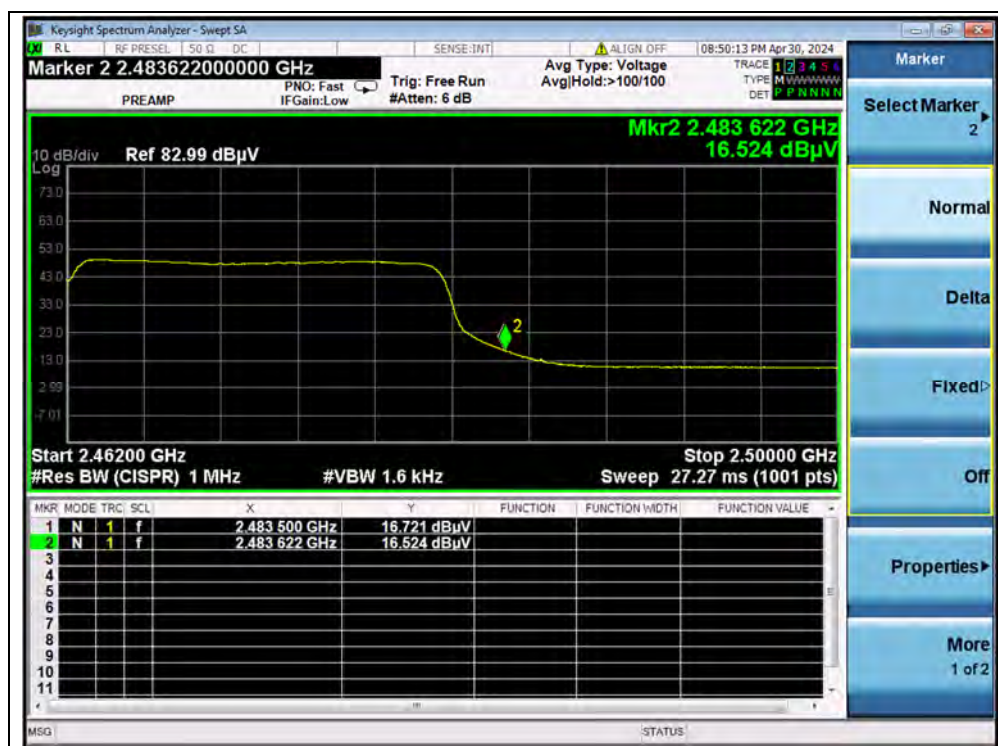
(PEAK, Channel 3, 802.11n (HT40))



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



(PEAK, Channel 11, 802.11n (HT40))



(AVERAGE, Channel 11, 802.11n (HT40))



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.

**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
105.660	33.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1990.400	48.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2445.333	49.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4823.760	51.58	N/A	49.62	74.00	N/A	54.00	Horizontal	PASS
9394.480	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14263.960	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

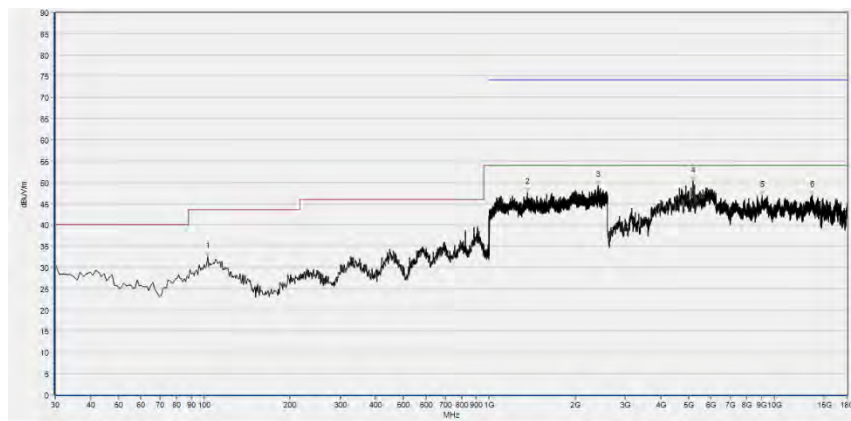


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2106.133	48.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2414.933	49.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5233.400	50.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9074.160	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14239.320	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

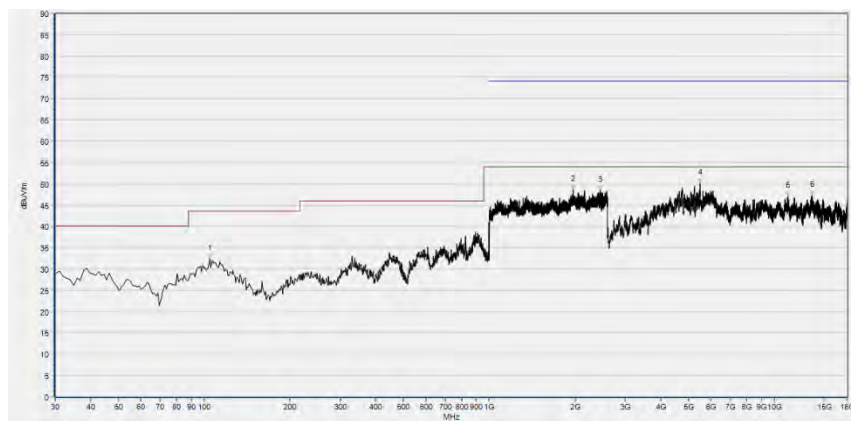


Plot for Channel 7



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	32.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1363.200	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2411.200	49.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5187.200	50.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9061.840	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13583.280	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

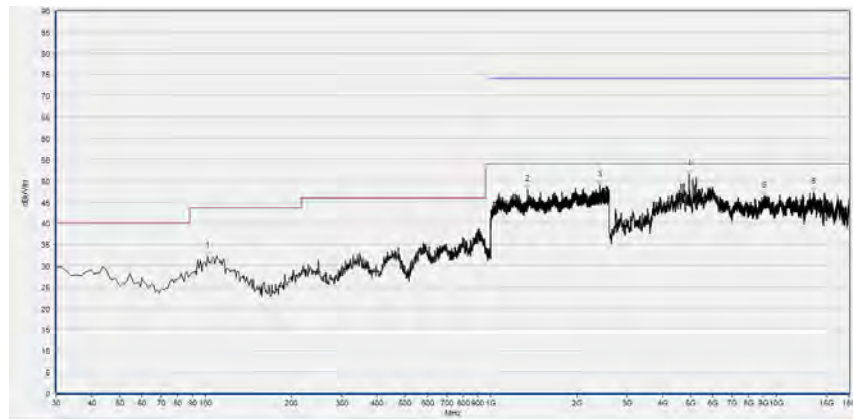


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1965.867	48.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2457.600	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5476.720	50.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11128.520	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13558.640	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 13



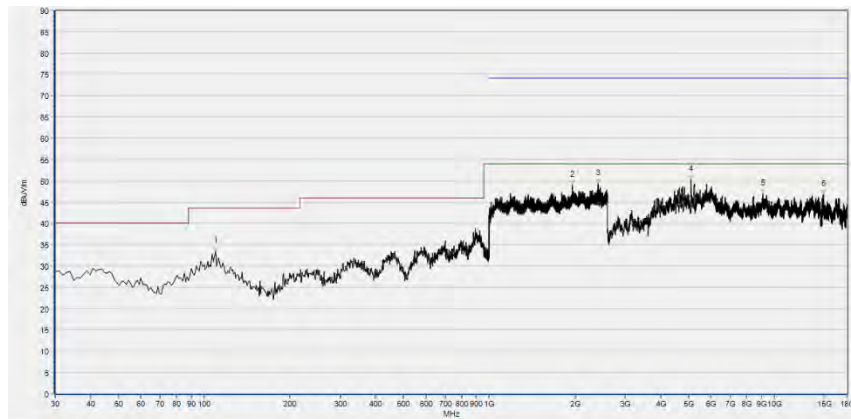
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	32.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1344.000	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2410.667	48.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4943.880	51.47	N/A	50.49	74.00	N/A	54.00	Horizontal	PASS
9068.000	46.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13490.880	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



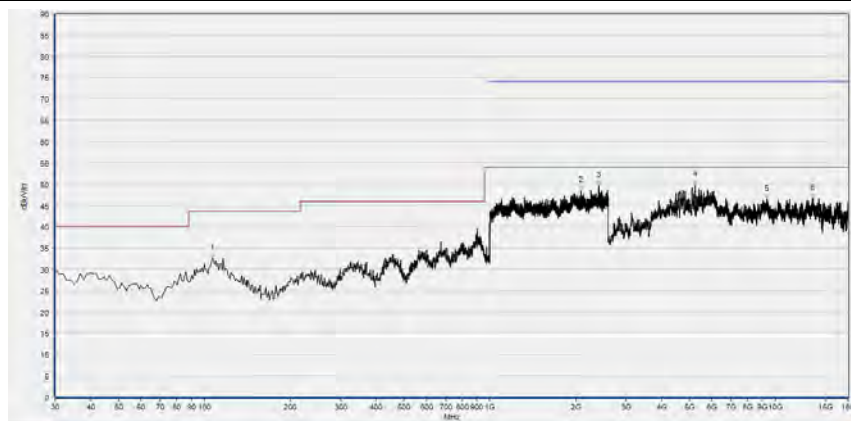
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2086.933	48.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2411.733	49.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5233.400	50.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9052.600	46.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13570.960	47.36	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	33.30	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1953.600	48.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2404.800	49.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5107.120	50.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9092.640	46.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14852.240	46.70	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	32.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2087.467	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2402.133	49.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5233.400	49.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9351.360	46.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13503.200	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

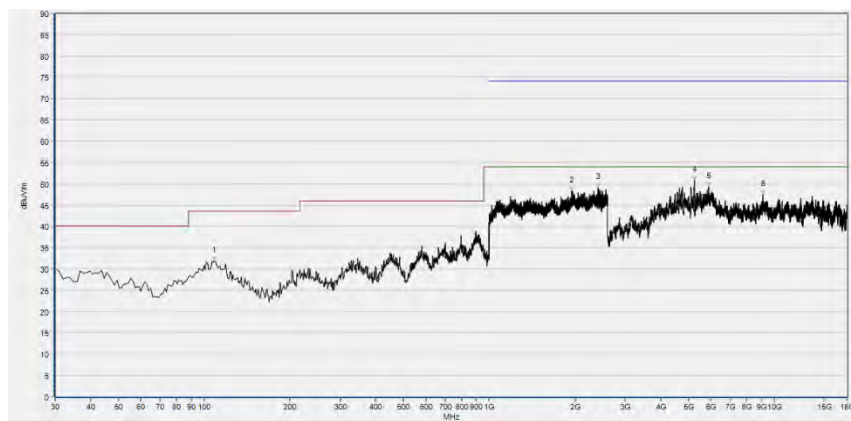


Plot for Channel 7



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	32.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1971.200	48.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2453.867	49.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5233.400	49.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9095.720	46.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13567.880	47.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

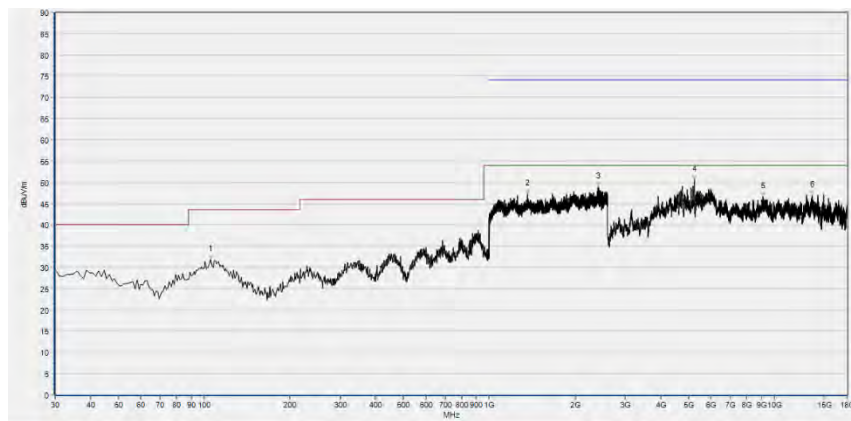


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1949.333	48.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2410.133	49.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5239.560	50.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5877.120	49.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9104.960	47.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

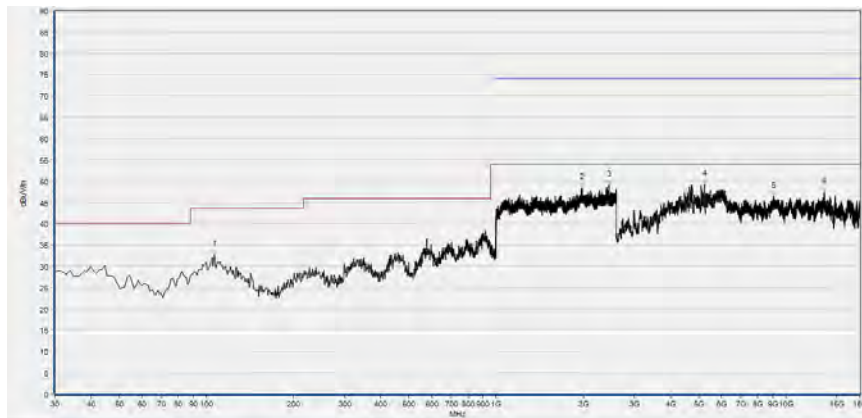


Plot for Channel 13



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	31.80	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1360.533	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2405.867	48.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5233.400	50.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9098.800	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13564.800	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

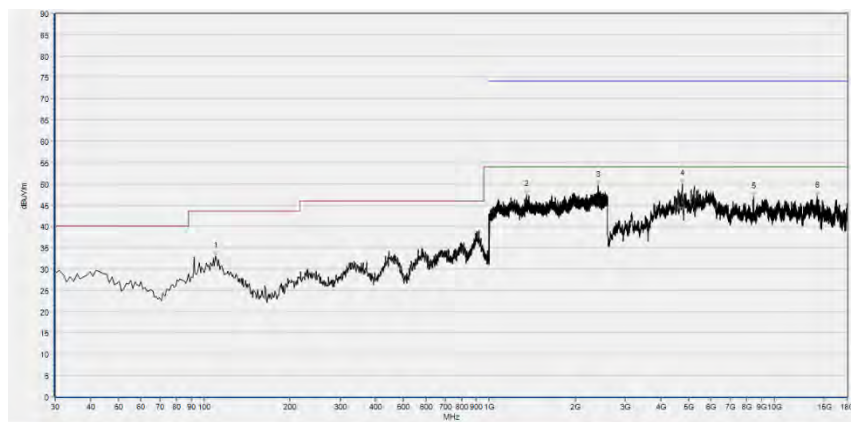


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	32.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1975.467	48.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2454.400	49.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5236.480	49.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9071.080	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13574.040	47.39	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	33.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1350.400	47.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2411.200	49.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4749.840	49.98	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8439.680	46.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14091.480	47.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

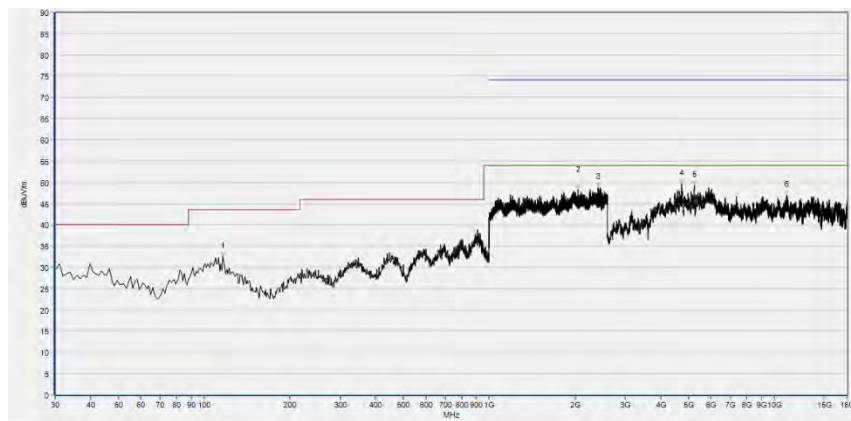


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	33.59	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1662.933	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2450.667	48.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5233.400	49.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9289.760	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13133.600	46.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 7



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
116.330	32.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2049.600	48.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2410.667	48.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4737.520	49.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5239.560	49.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11002.240	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

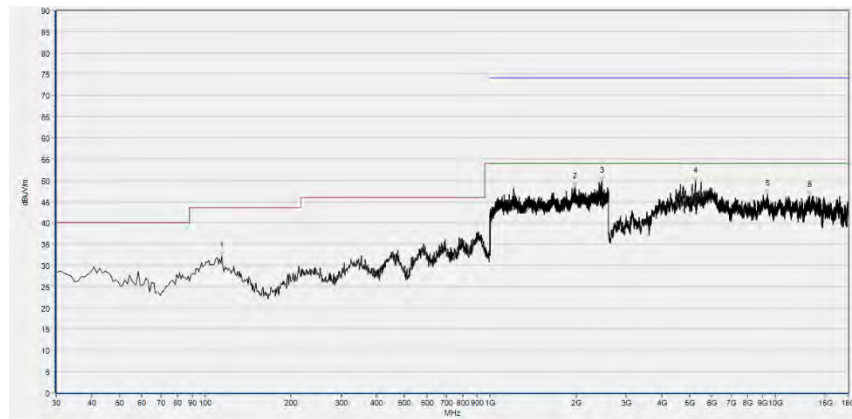


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	31.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2049.600	48.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2458.667	48.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5227.240	49.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9095.720	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13062.760	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 13



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	32.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1985.067	48.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2466.667	49.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5233.400	49.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9379.080	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13161.320	46.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

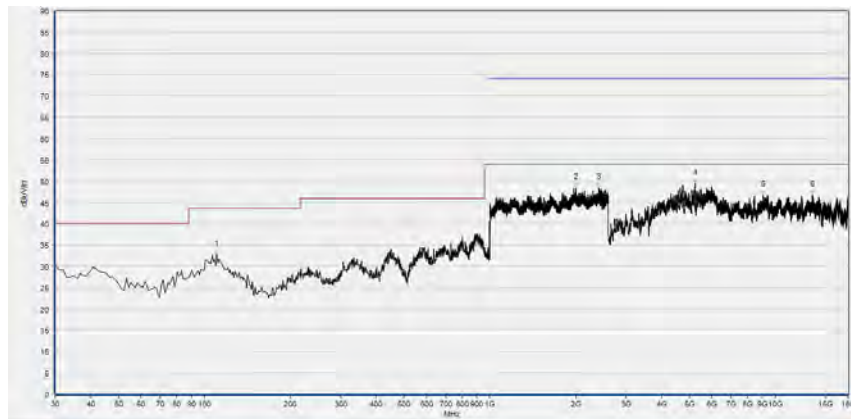


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1981.333	48.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2415.467	48.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5236.480	49.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7845.240	47.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14171.560	46.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

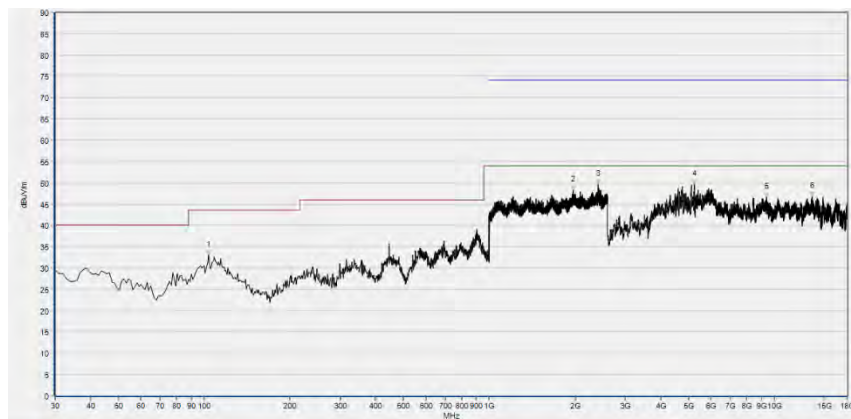
**802.11n (HT40) Mode**

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
110.510	32.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1998.933	48.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2414.400	48.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5236.480	49.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9086.480	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13500.120	46.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

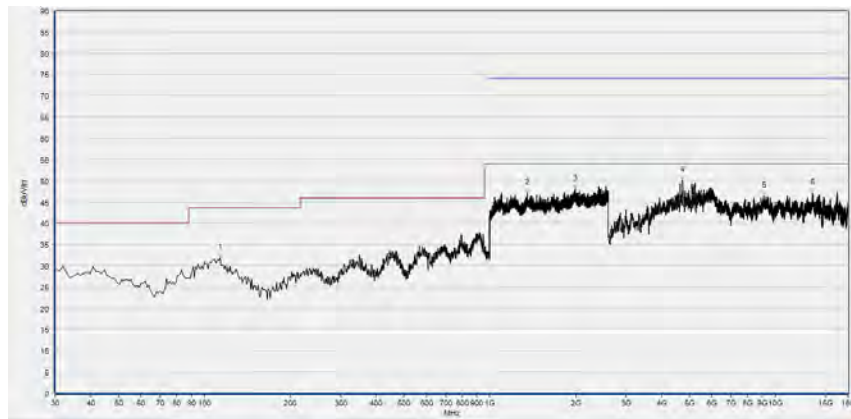
(Antenna Horizontal, 30MHz to 18GHz)



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
103.720	32.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1973.867	48.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2410.667	49.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5233.400	49.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9403.720	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13580.200	46.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



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	31.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1352.000	47.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1986.667	48.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	50.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9095.720	46.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13466.240	47.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

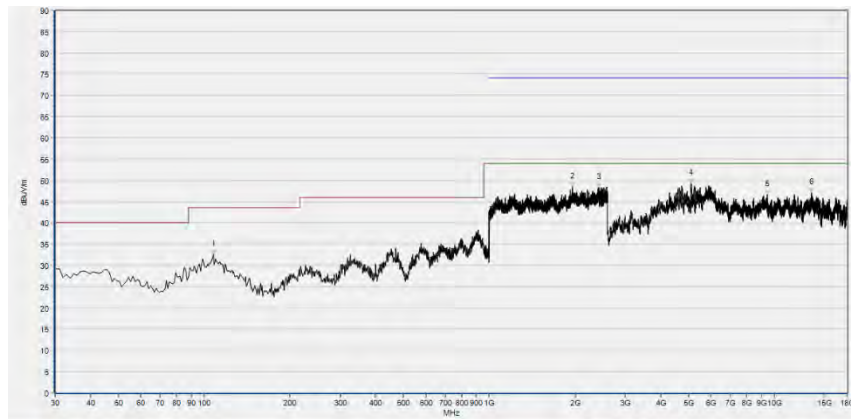


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1681.067	47.58	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2408.000	49.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5233.400	49.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10352.360	46.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14907.680	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

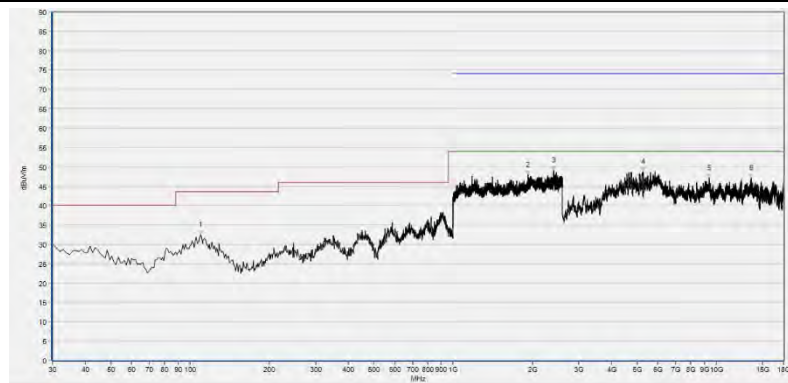


Plot for Channel 11



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
107.600	32.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1952.000	48.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2417.600	48.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5107.120	49.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9428.360	46.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13484.720	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	32.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1925.333	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2413.333	49.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5288.840	48.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9409.880	47.11	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13607.920	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT