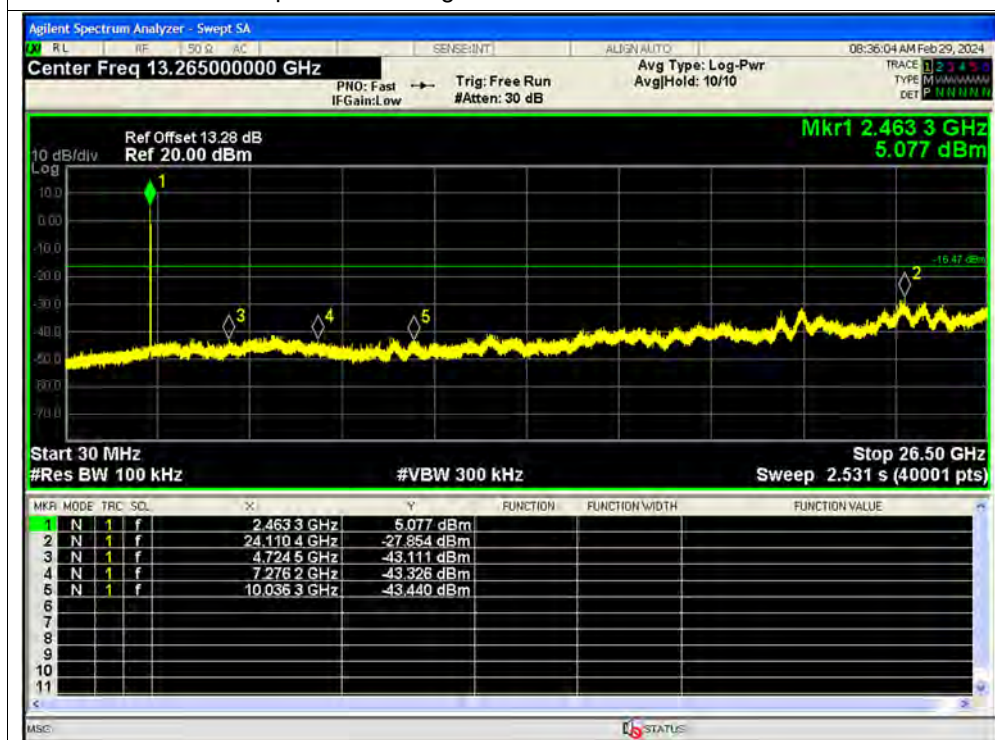


Tx. Spurious NVNT g 2462MHz Ant1 Ref SISO



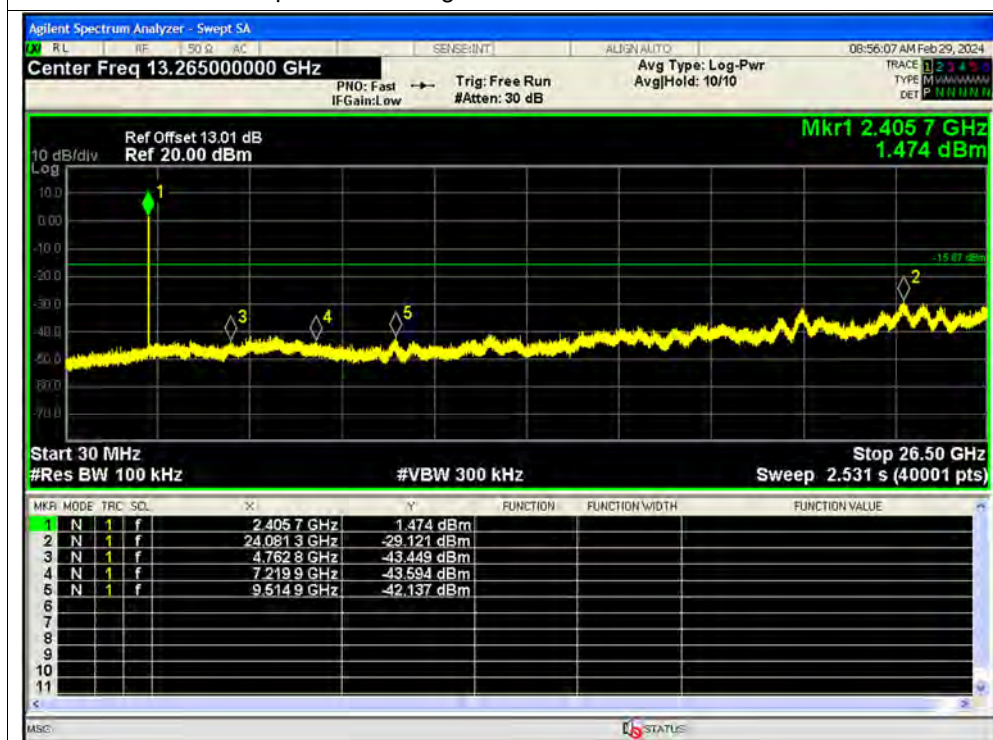
Tx. Spurious NVNT g 2462MHz Ant1 Emission SISO



Tx. Spurious NVNT g 2412MHz Ant2 Ref SISO



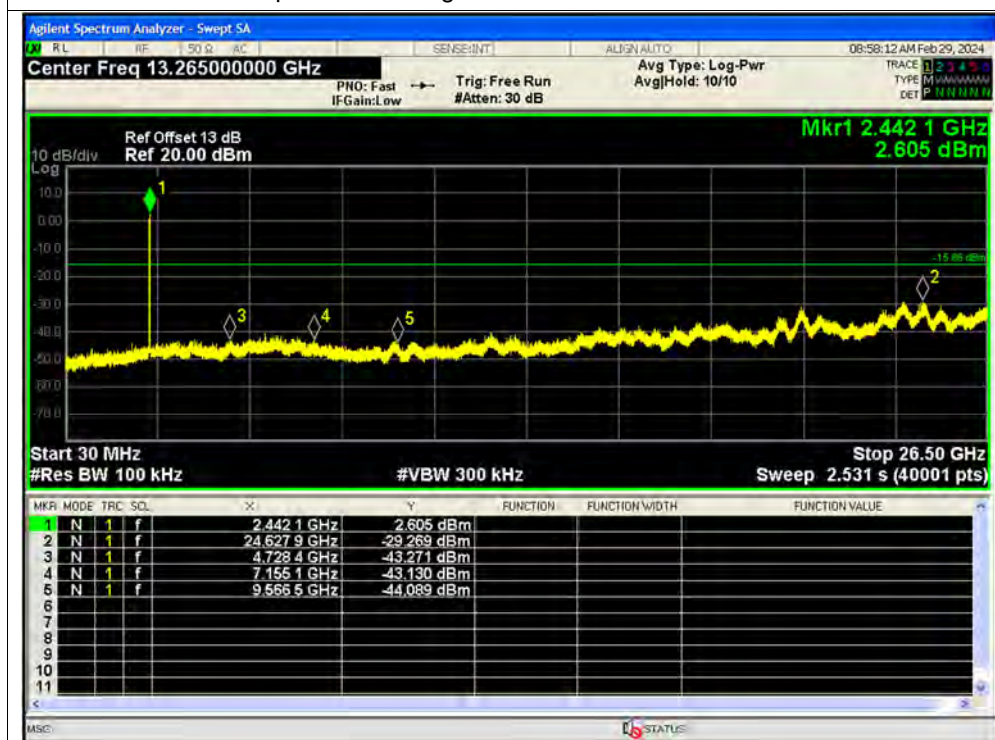
Tx. Spurious NVNT g 2412MHz Ant2 Emission SISO



Tx. Spurious NVNT g 2437MHz Ant2 Ref SISO



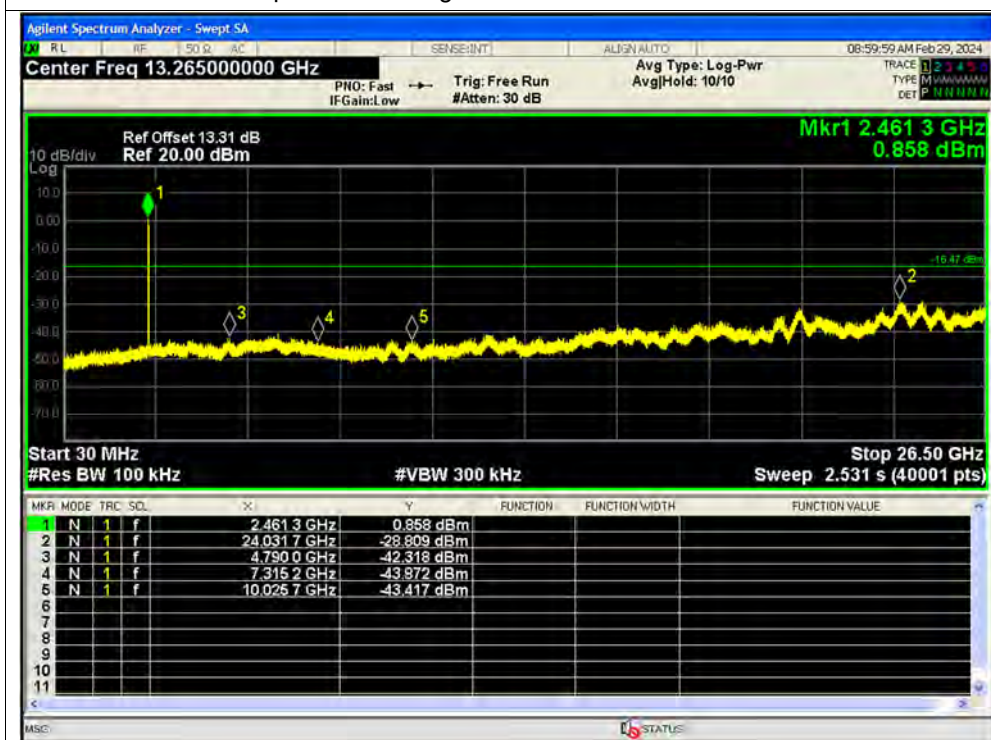
Tx. Spurious NVNT g 2437MHz Ant2 Emission SISO



Tx. Spurious NVNT g 2462MHz Ant2 Ref SISO



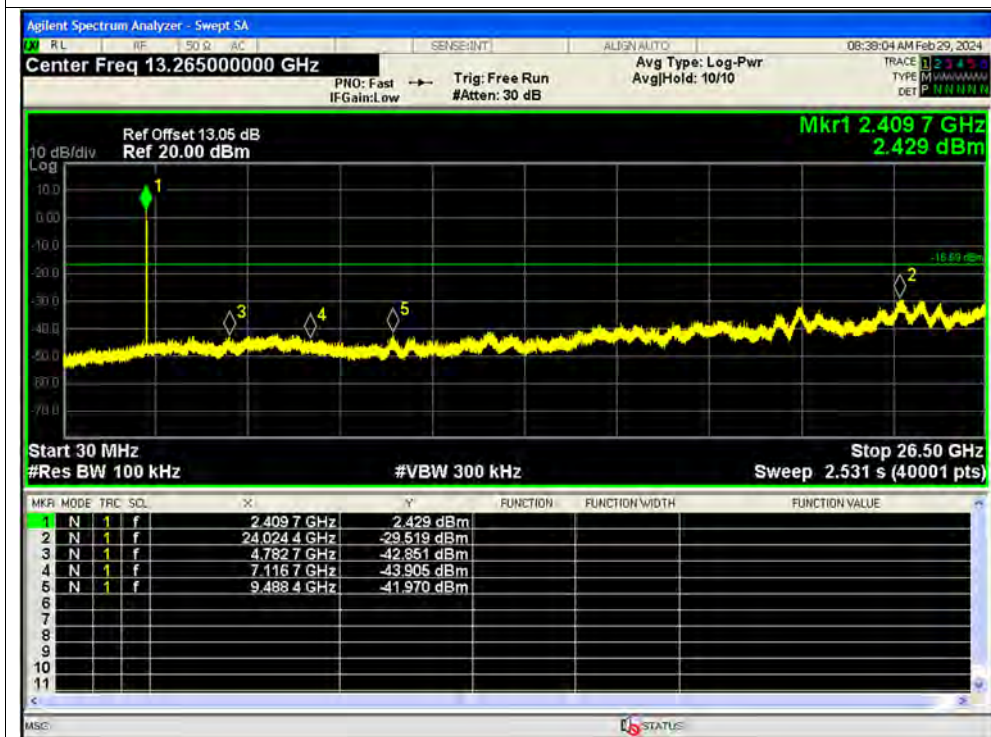
Tx. Spurious NVNT g 2462MHz Ant2 Emission SISO

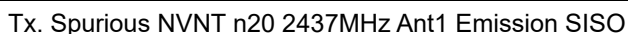


Tx. Spurious NVNT n20 2412MHz Ant1 Ref SISO



Tx. Spurious NVNT n20 2412MHz Ant1 Emission SISO



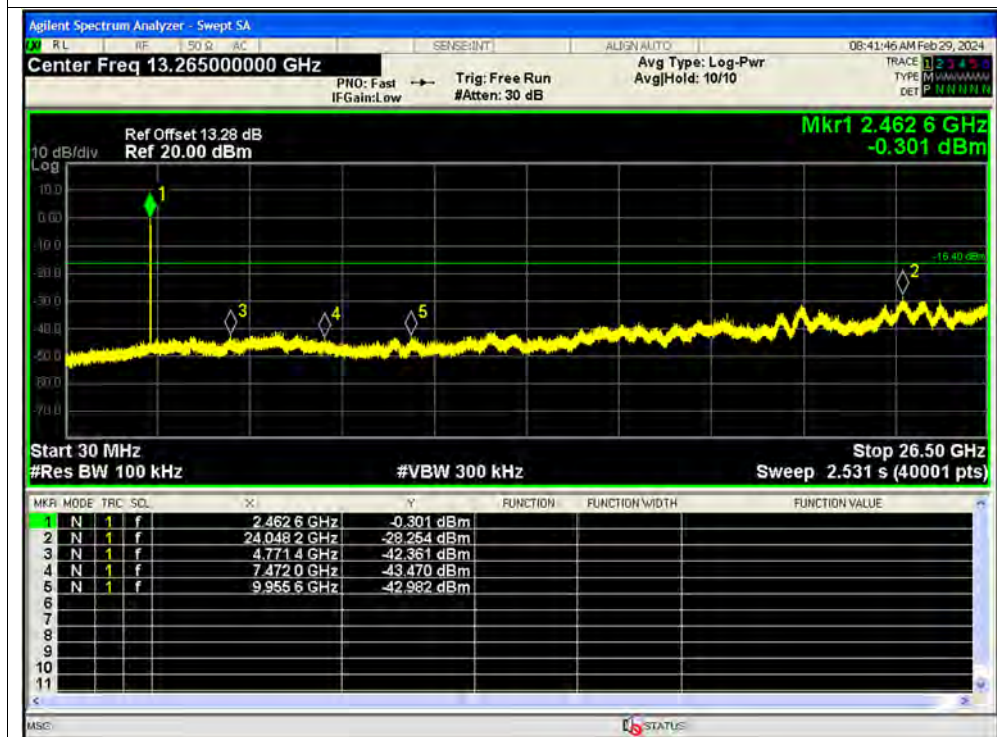


E-mail: service@morlab.cn

Tx. Spurious NVNT n20 2462MHz Ant1 Ref SISO



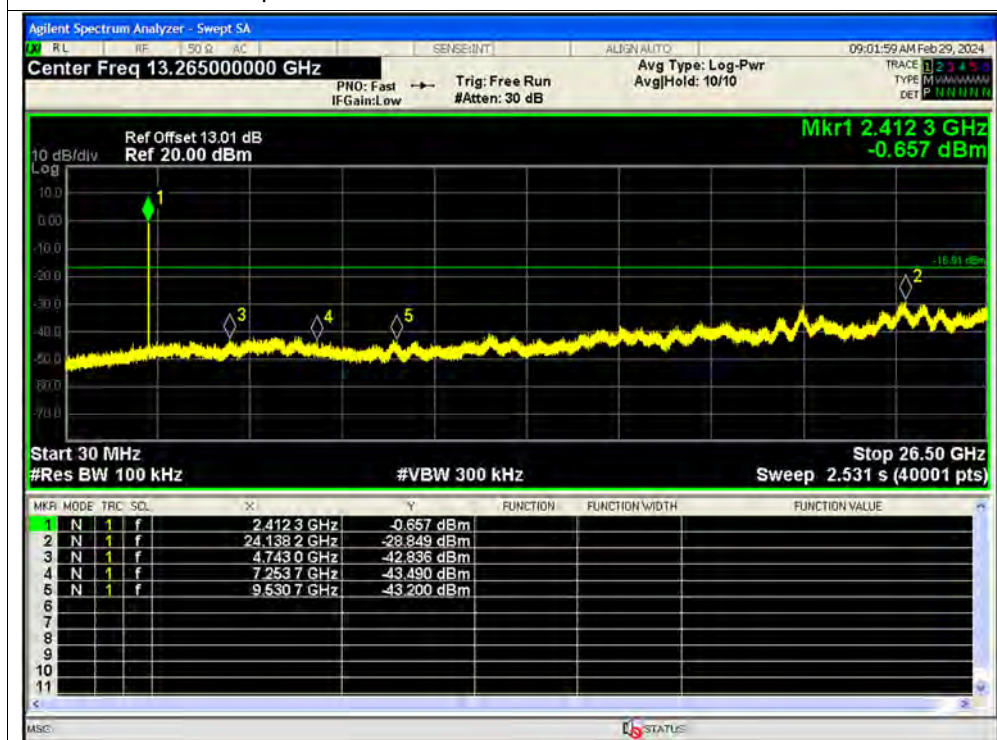
Tx. Spurious NVNT n20 2462MHz Ant1 Emission SISO



Tx. Spurious NVNT n20 2412MHz Ant2 Ref SISO



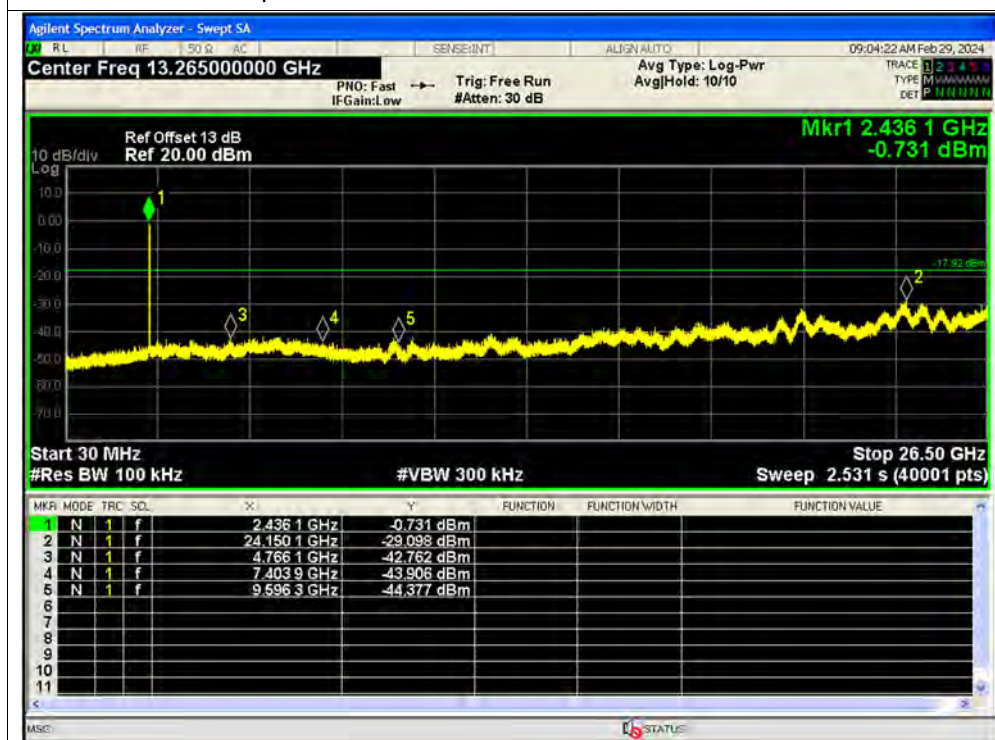
Tx. Spurious NVNT n20 2412MHz Ant2 Emission SISO



Tx. Spurious NVNT n20 2437MHz Ant2 Ref SISO



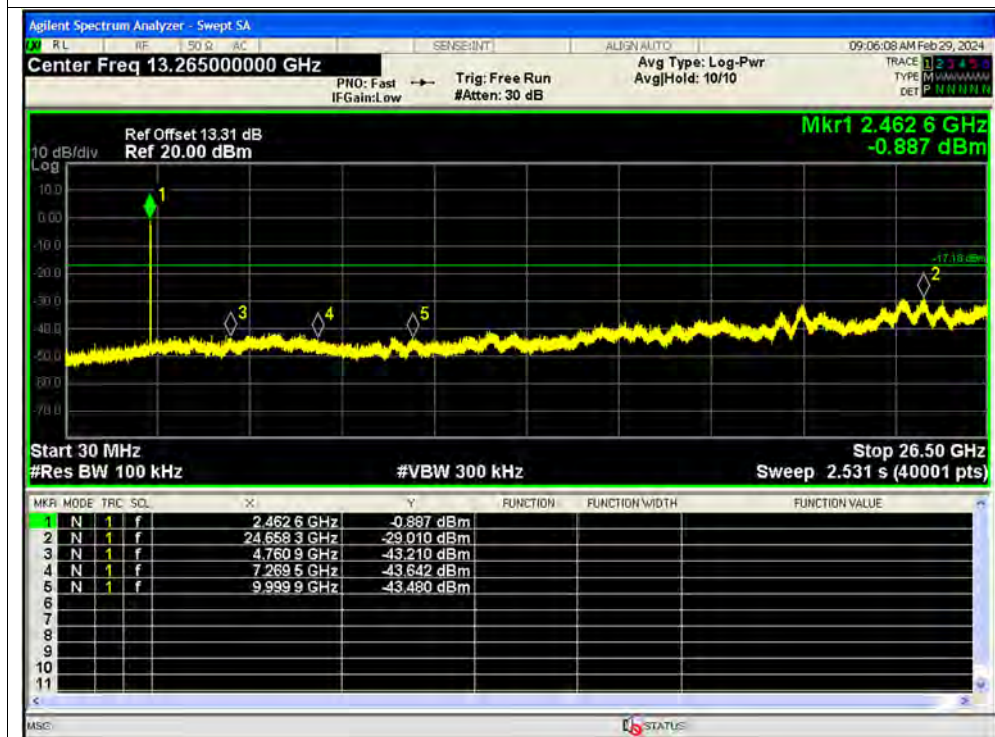
Tx. Spurious NVNT n20 2437MHz Ant2 Emission SISO



Tx. Spurious NVNT n20 2462MHz Ant2 Ref SISO



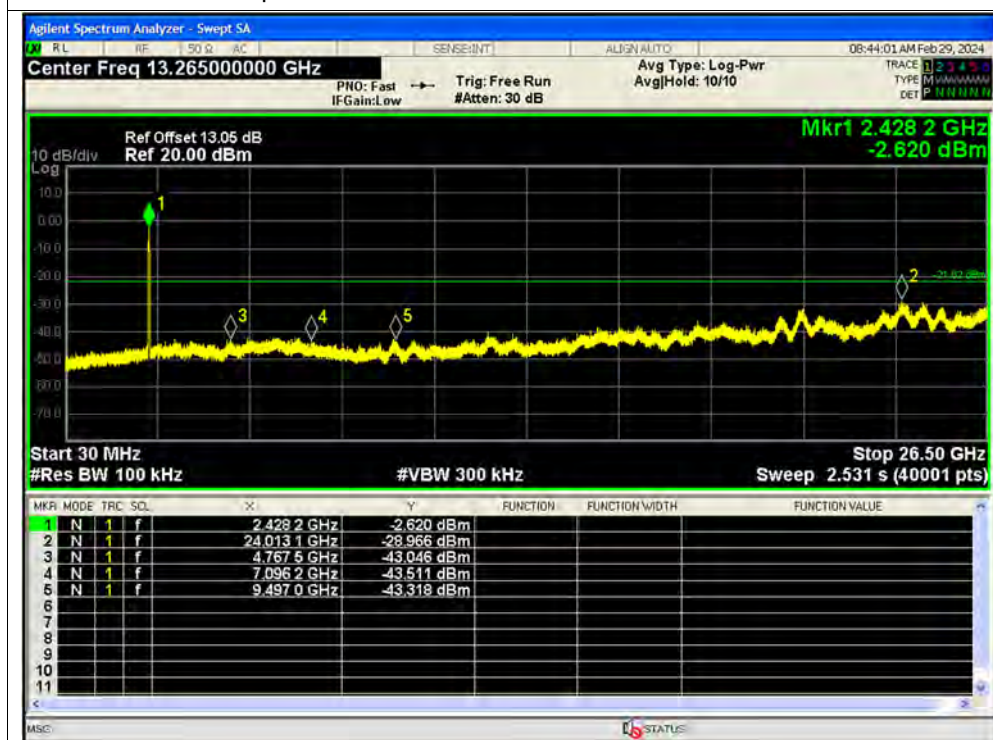
Tx. Spurious NVNT n20 2462MHz Ant2 Emission SISO



Tx. Spurious NVNT n40 2422MHz Ant1 Ref SISO



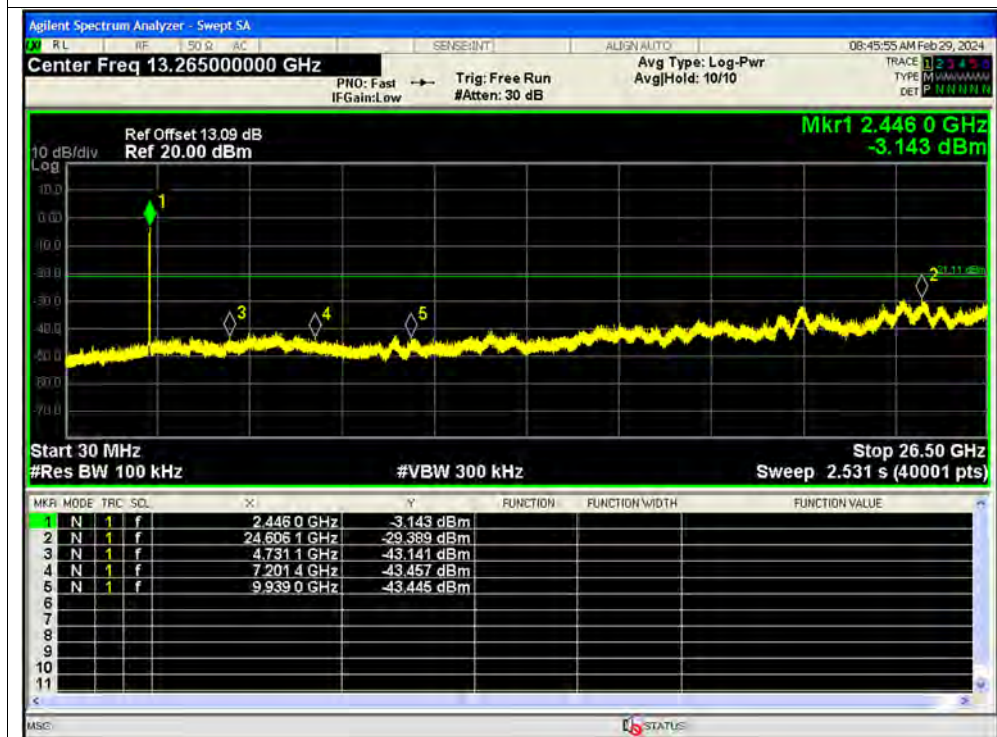
Tx. Spurious NVNT n40 2422MHz Ant1 Emission SISO



Tx. Spurious NVNT n40 2437MHz Ant1 Ref SISO



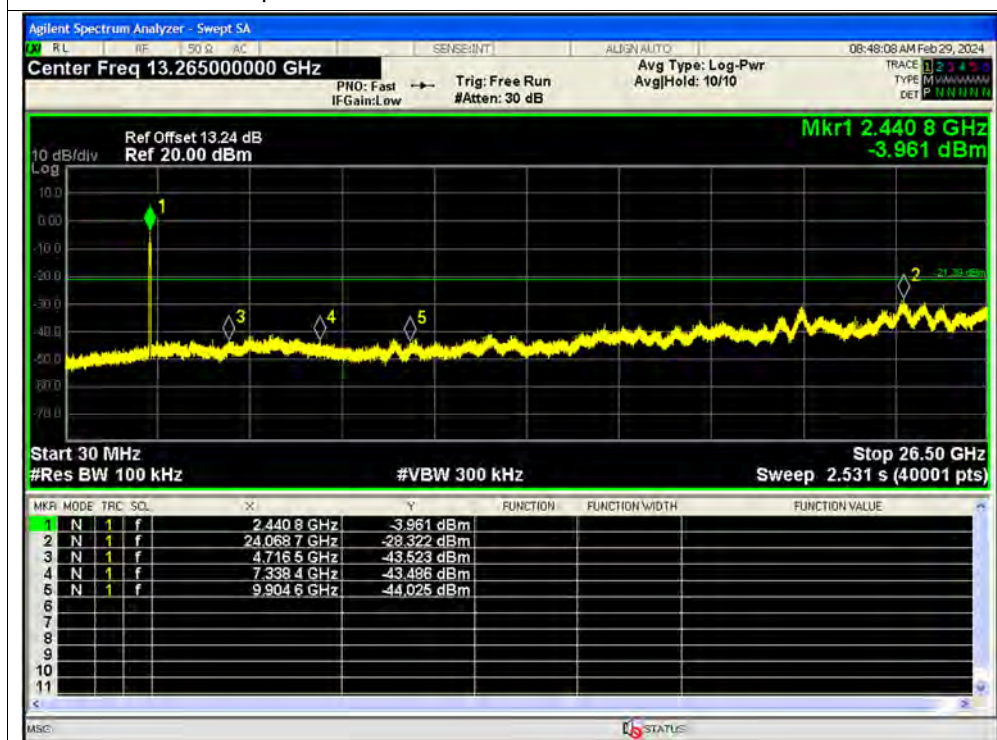
Tx. Spurious NVNT n40 2437MHz Ant1 Emission SISO



Tx. Spurious NVNT n40 2452MHz Ant1 Ref SISO



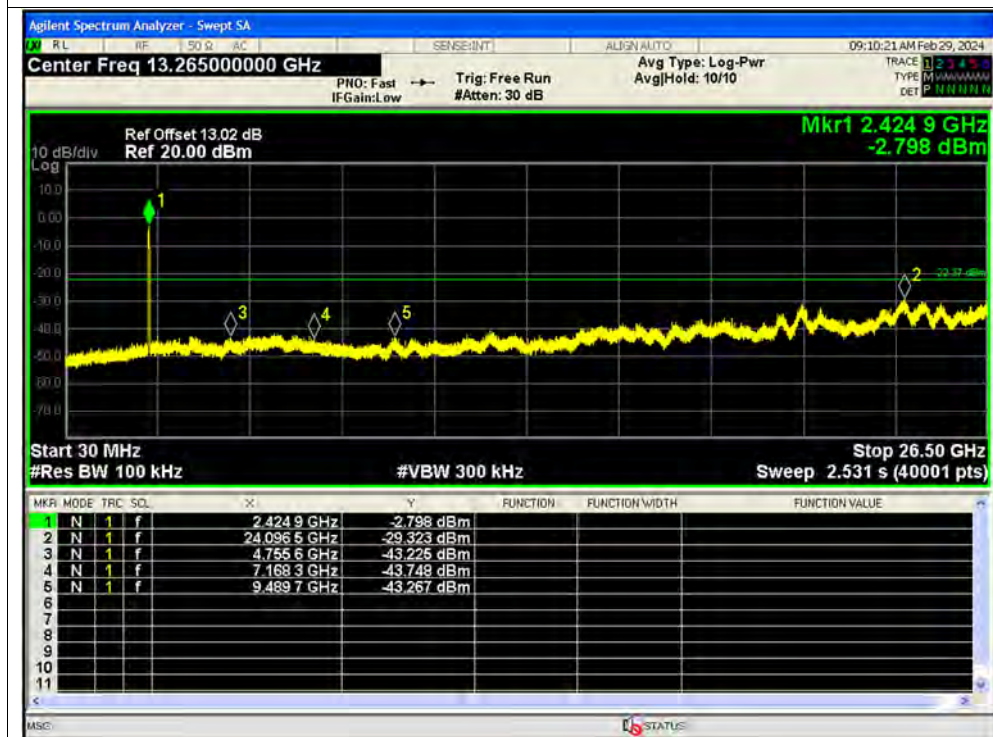
Tx. Spurious NVNT n40 2452MHz Ant1 Emission SISO



Tx. Spurious NVNT n40 2422MHz Ant2 Ref SISO



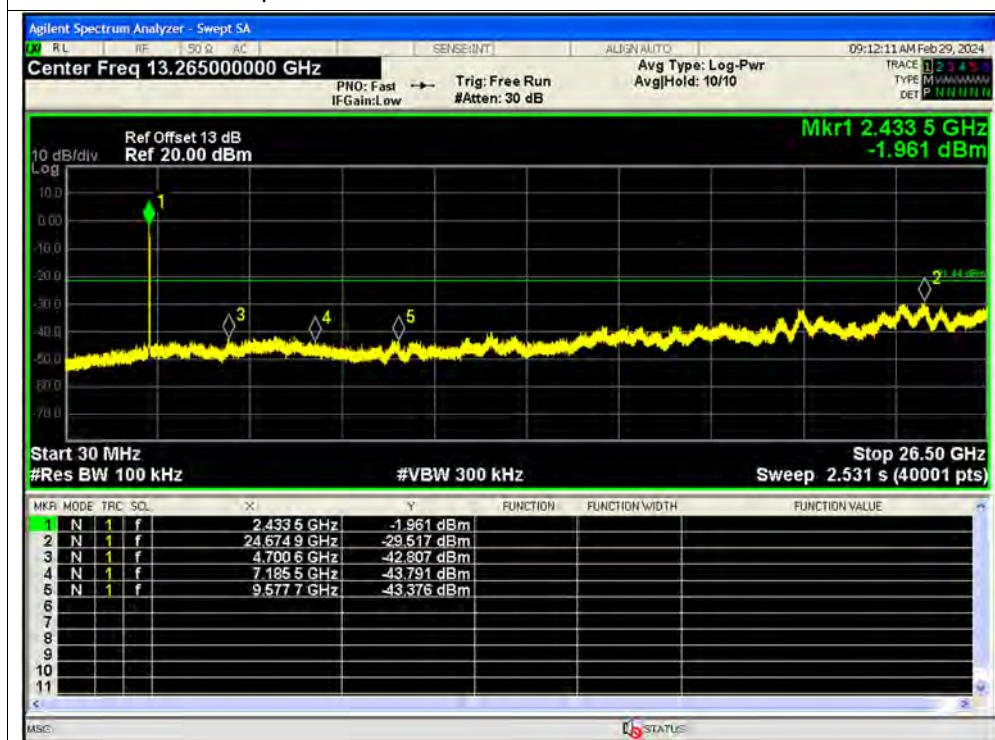
Tx. Spurious NVNT n40 2422MHz Ant2 Emission SISO



Tx. Spurious NVNT n40 2437MHz Ant2 Ref SISO



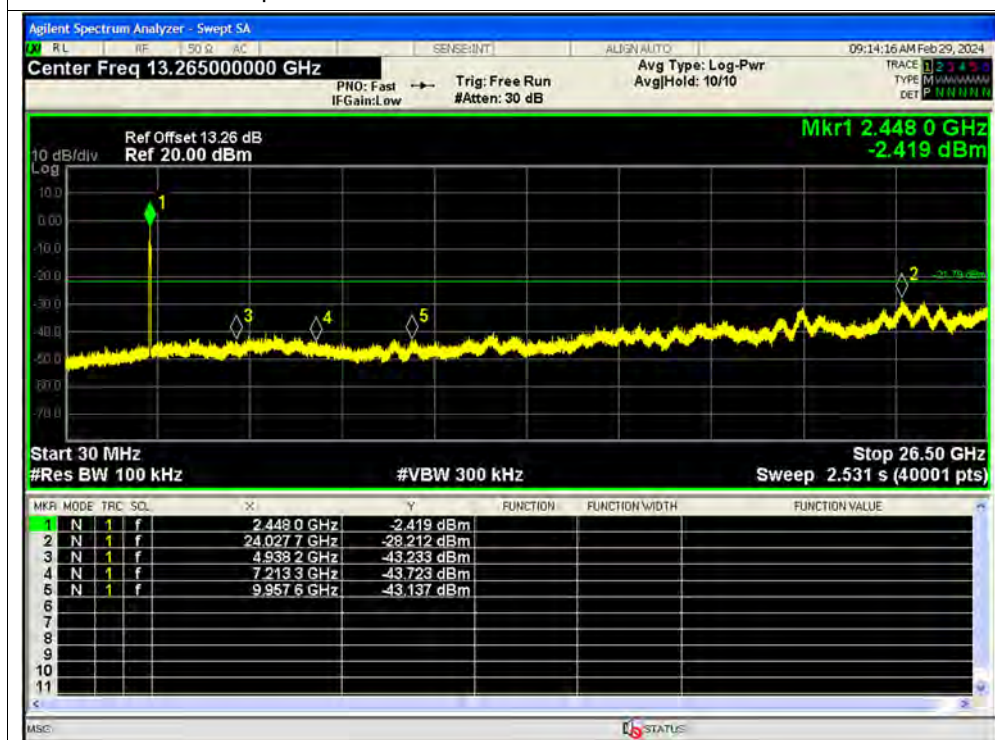
Tx. Spurious NVNT n40 2437MHz Ant2 Emission SISO



Tx. Spurious NVNT n40 2452MHz Ant2 Ref SISO



Tx. Spurious NVNT n40 2452MHz Ant2 Emission SISO



**A.6. Band Edge**

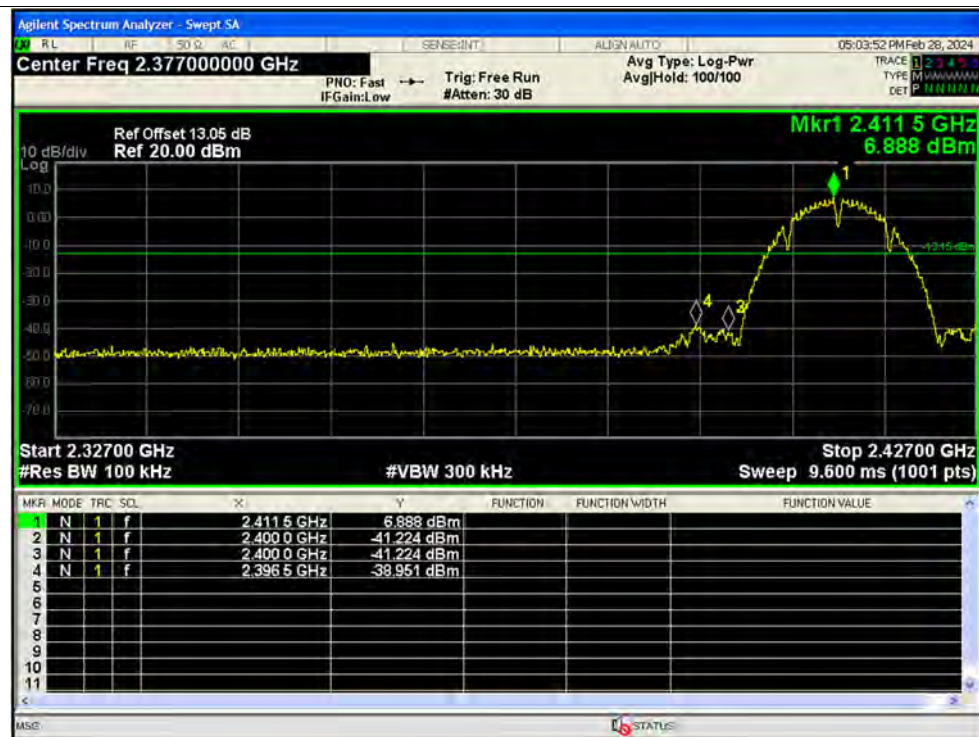
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b SISO	2412	Ant1	-45.8	-20	Pass
NVNT	b SISO	2462	Ant1	-52.4	-20	Pass
NVNT	b SISO	2412	Ant2	-45.87	-20	Pass
NVNT	b SISO	2462	Ant2	-52.94	-20	Pass
NVNT	g SISO	2412	Ant1	-43.52	-20	Pass
NVNT	g SISO	2462	Ant1	-48.46	-20	Pass
NVNT	g SISO	2412	Ant2	-44.43	-20	Pass
NVNT	g SISO	2462	Ant2	-48.39	-20	Pass
NVNT	n20 SISO	2412	Ant1	-44.4	-20	Pass
NVNT	n20 SISO	2462	Ant1	-48.07	-20	Pass
NVNT	n20 SISO	2412	Ant2	-43.18	-20	Pass
NVNT	n20 SISO	2462	Ant2	-47.34	-20	Pass
NVNT	n20 MIMO	2412	Ant1	-43.95	-20	Pass
NVNT	n20 MIMO	2412	Ant2	-43.16	-20	Pass
NVNT	n20 MIMO	2462	Ant1	-48.49	-20	Pass
NVNT	n20 MIMO	2462	Ant2	-48.21	-20	Pass
NVNT	n40 SISO	2422	Ant1	-39.4	-20	Pass
NVNT	n40 SISO	2452	Ant1	-43.56	-20	Pass
NVNT	n40 SISO	2422	Ant2	-39.56	-20	Pass
NVNT	n40 SISO	2452	Ant2	-43.26	-20	Pass
NVNT	n40 MIMO	2422	Ant1	-39.47	-20	Pass
NVNT	n40 MIMO	2422	Ant2	-38.88	-20	Pass
NVNT	n40 MIMO	2452	Ant1	-42.38	-20	Pass
NVNT	n40 MIMO	2452	Ant2	-42.72	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref SISO



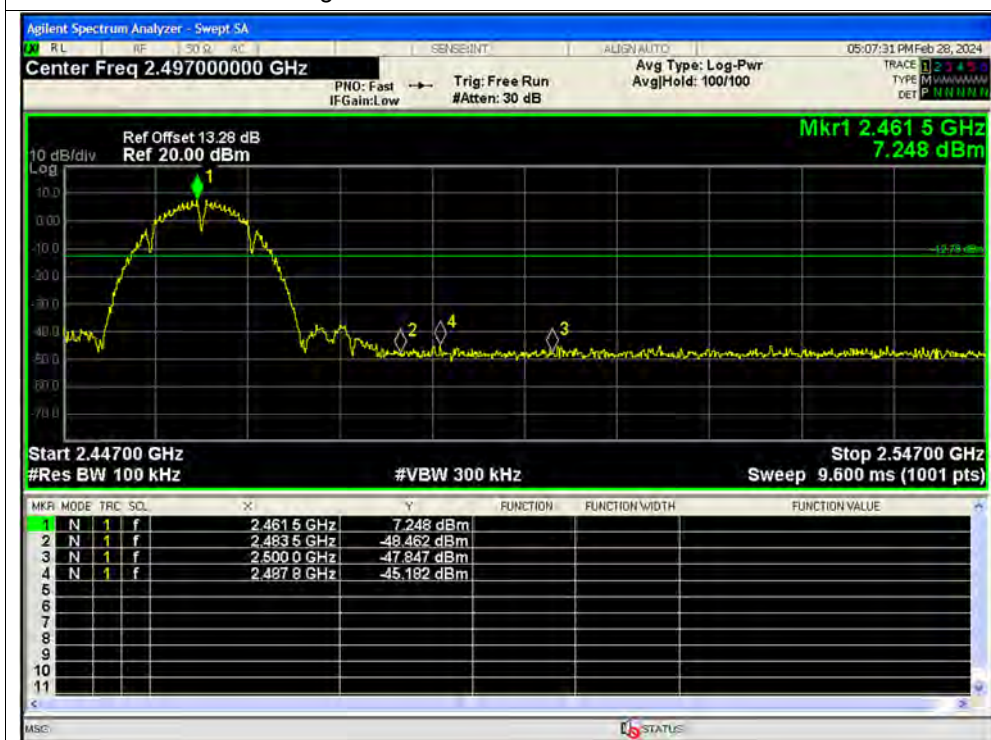
Band Edge NVNT b 2412MHz Ant1 Emission SISO



Band Edge NVNT b 2462MHz Ant1 Ref SISO



Band Edge NVNT b 2462MHz Ant1 Emission SISO

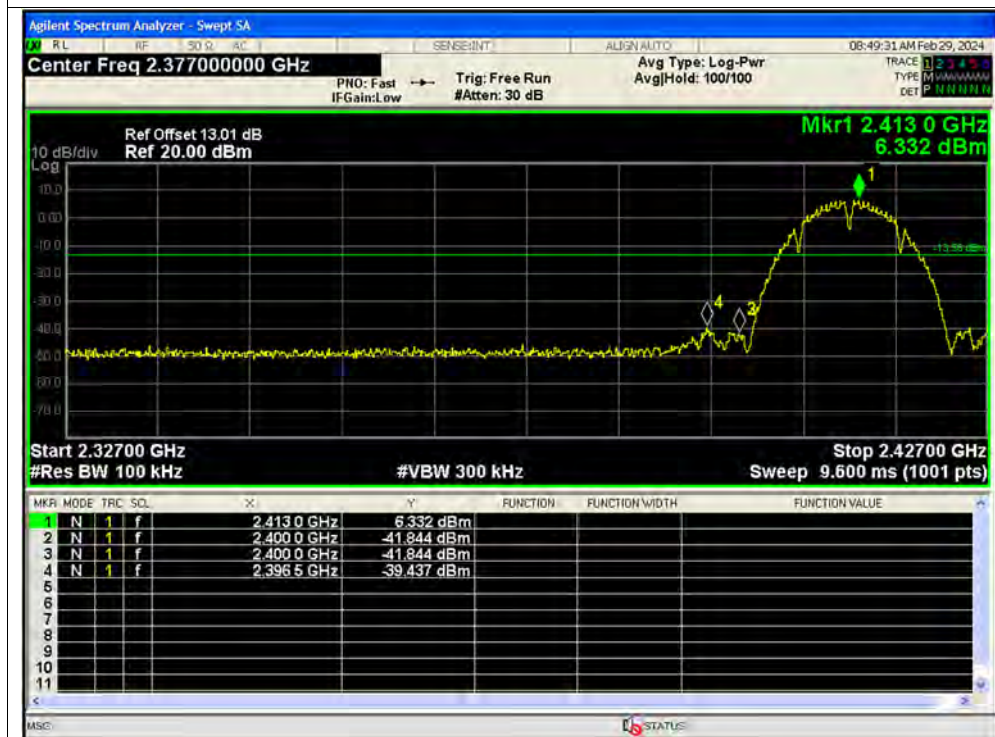




Band Edge NVNT b 2412MHz Ant2 Ref SISO



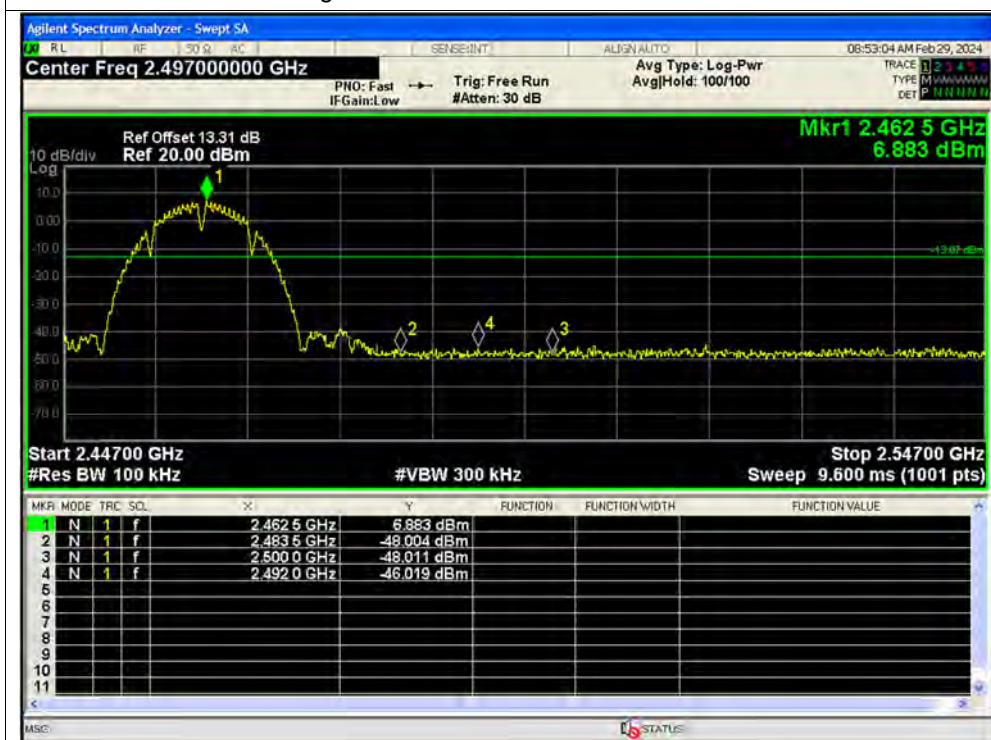
Band Edge NVNT b 2412MHz Ant2 Emission SISO



Band Edge NVNT b 2462MHz Ant2 Ref SISO



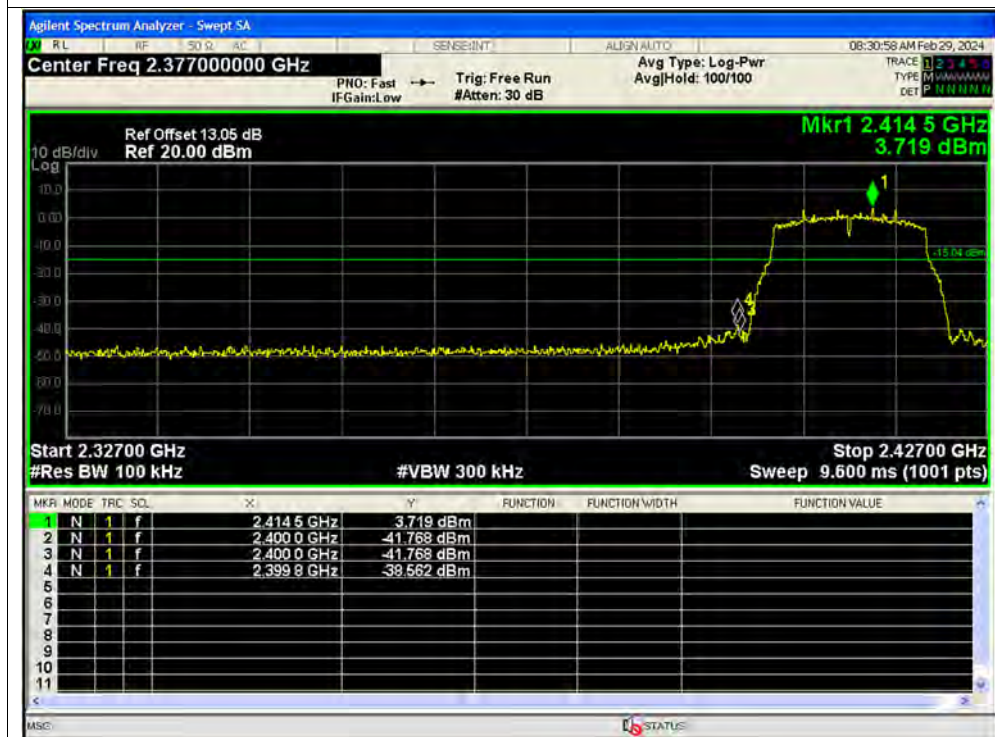
Band Edge NVNT b 2462MHz Ant2 Emission SISO



Band Edge NVNT g 2412MHz Ant1 Ref SISO



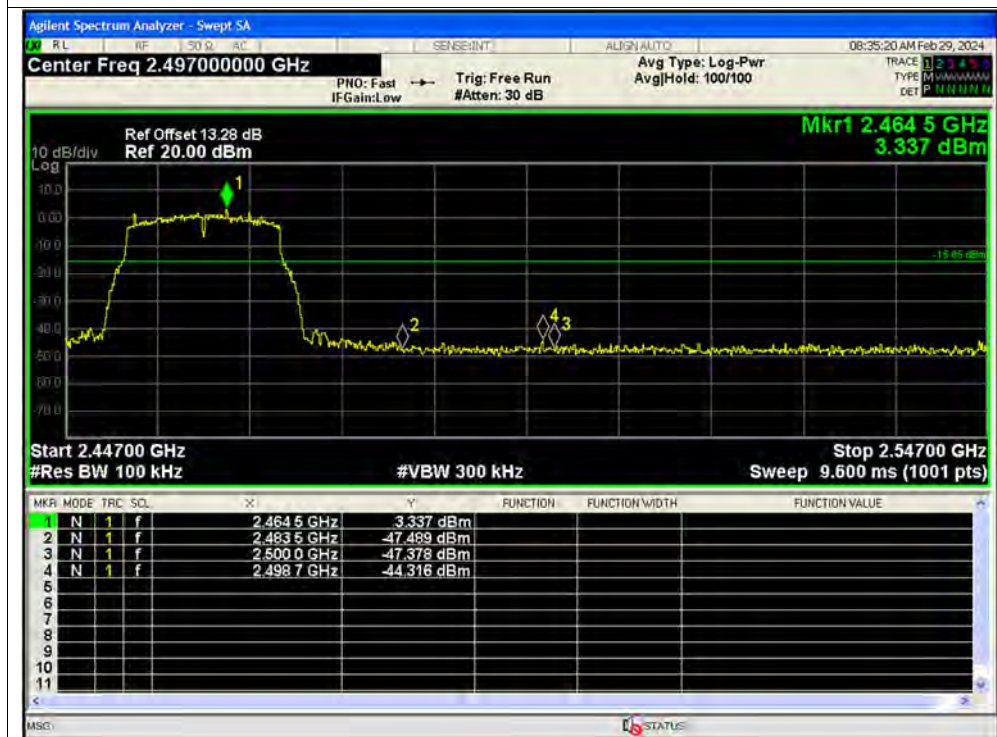
Band Edge NVNT g 2412MHz Ant1 Emission SISO



Band Edge NVNT g 2462MHz Ant1 Ref SISO



Band Edge NVNT g 2462MHz Ant1 Emission SISO

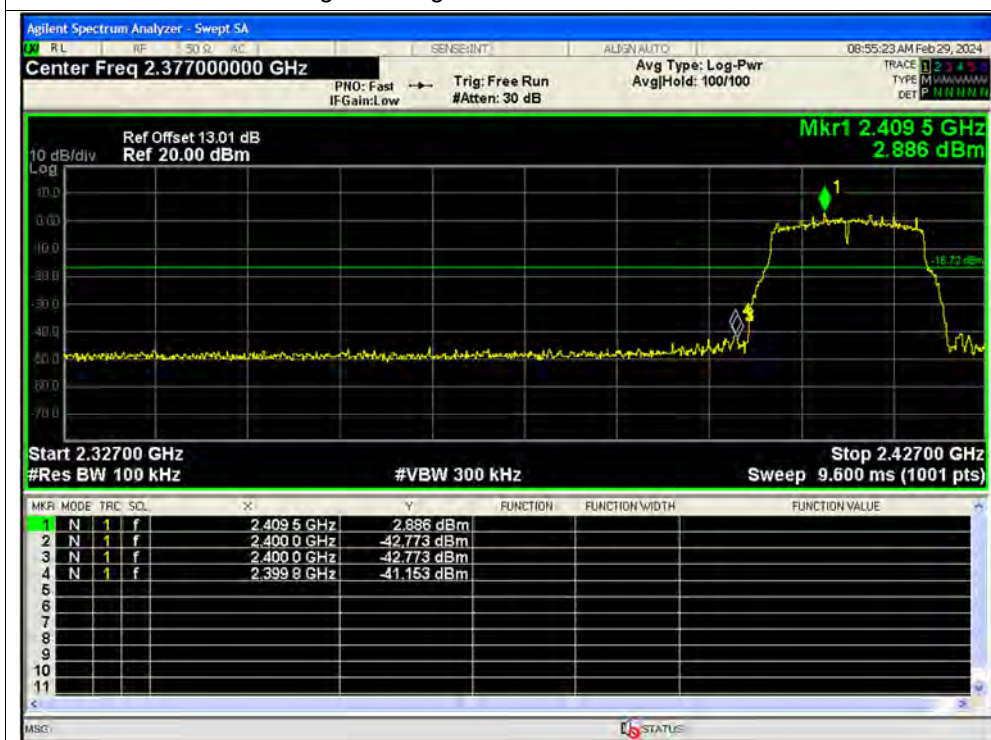




Band Edge NVNT g 2412MHz Ant2 Ref SISO



Band Edge NVNT g 2412MHz Ant2 Emission SISO



Band Edge NVNT g 2462MHz Ant2 Ref SISO



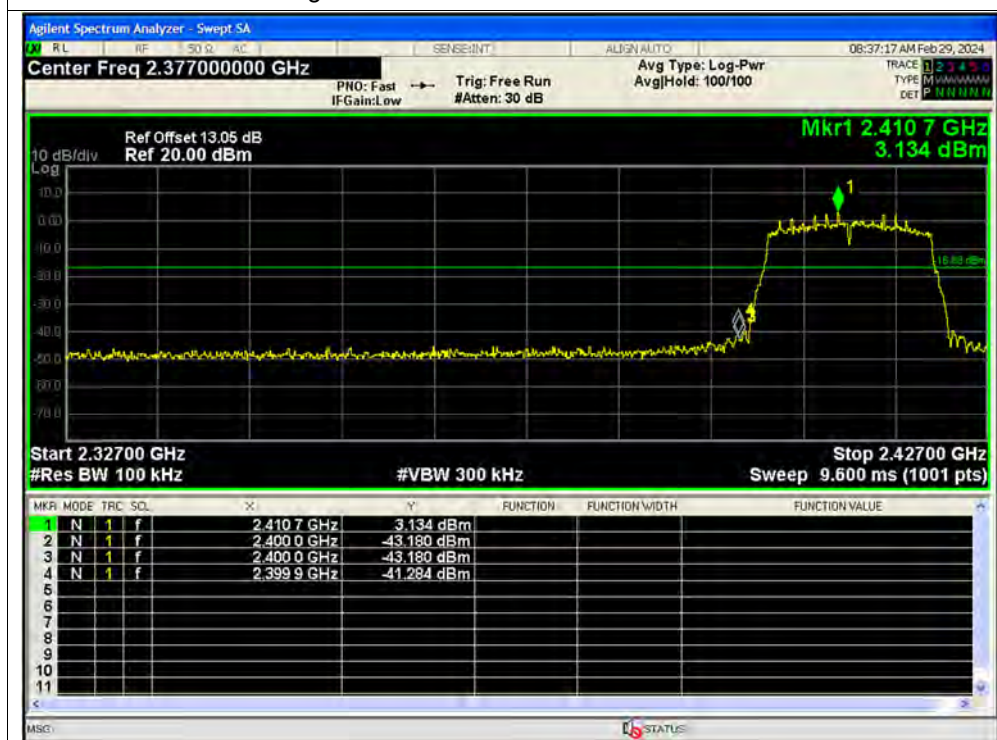
Band Edge NVNT g 2462MHz Ant2 Emission SISO



Band Edge NVNT n20 2412MHz Ant1 Ref SISO



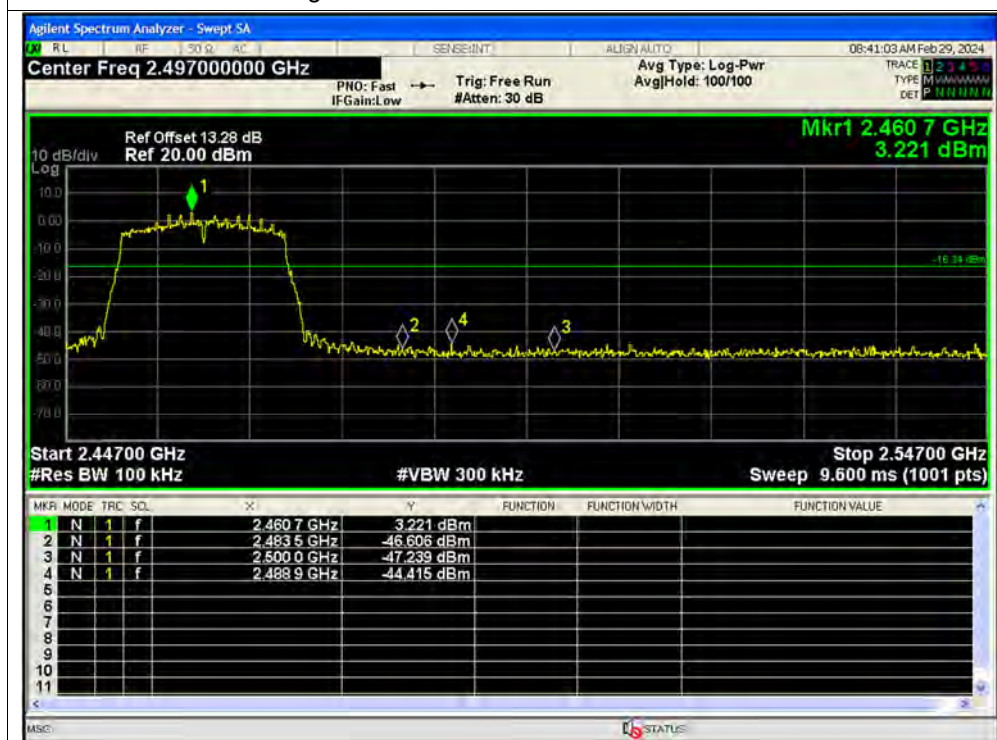
Band Edge NVNT n20 2412MHz Ant1 Emission SISO



Band Edge NVNT n20 2462MHz Ant1 Ref SISO



Band Edge NVNT n20 2462MHz Ant1 Emission SISO

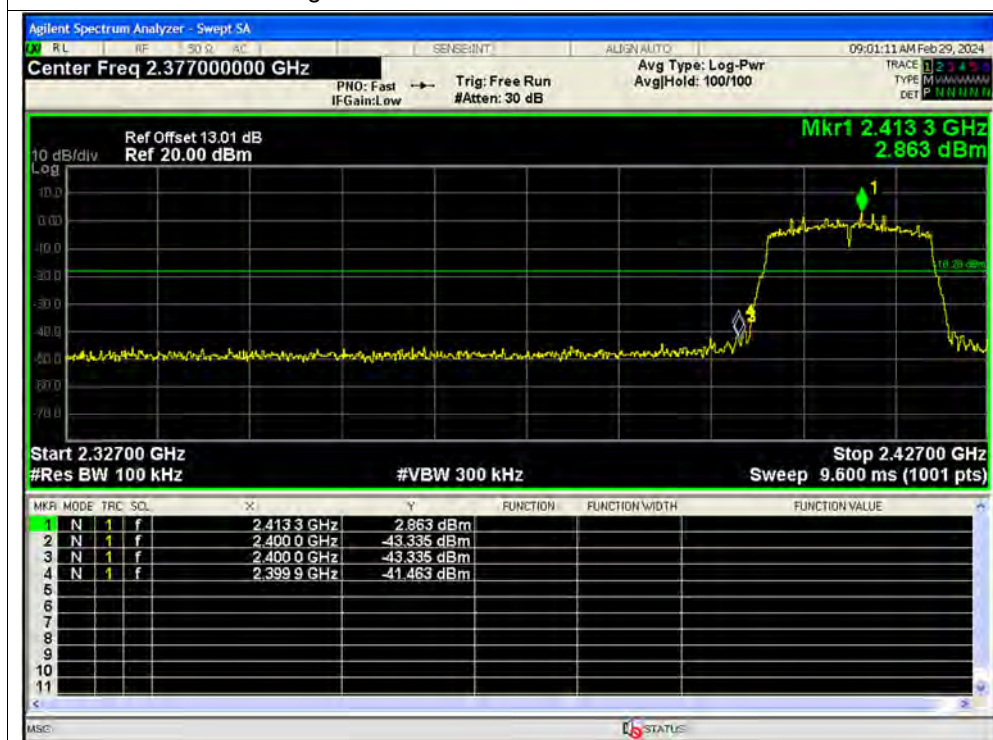




Band Edge NVNT n20 2412MHz Ant2 Ref SISO



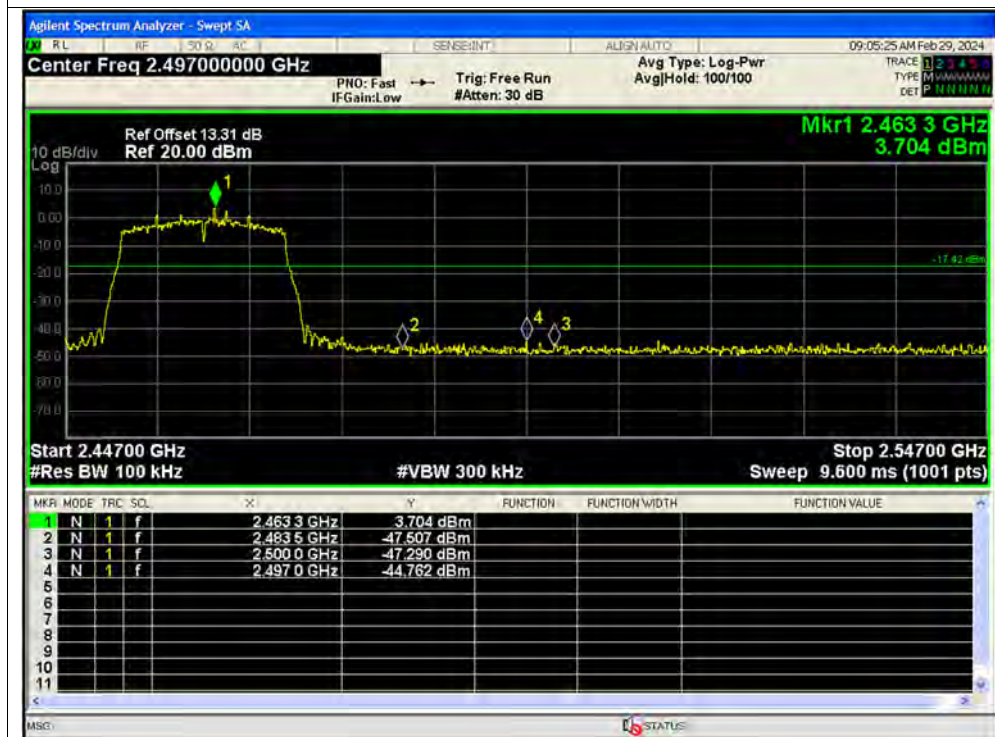
Band Edge NVNT n20 2412MHz Ant2 Emission SISO



Band Edge NVNT n20 2462MHz Ant2 Ref SISO



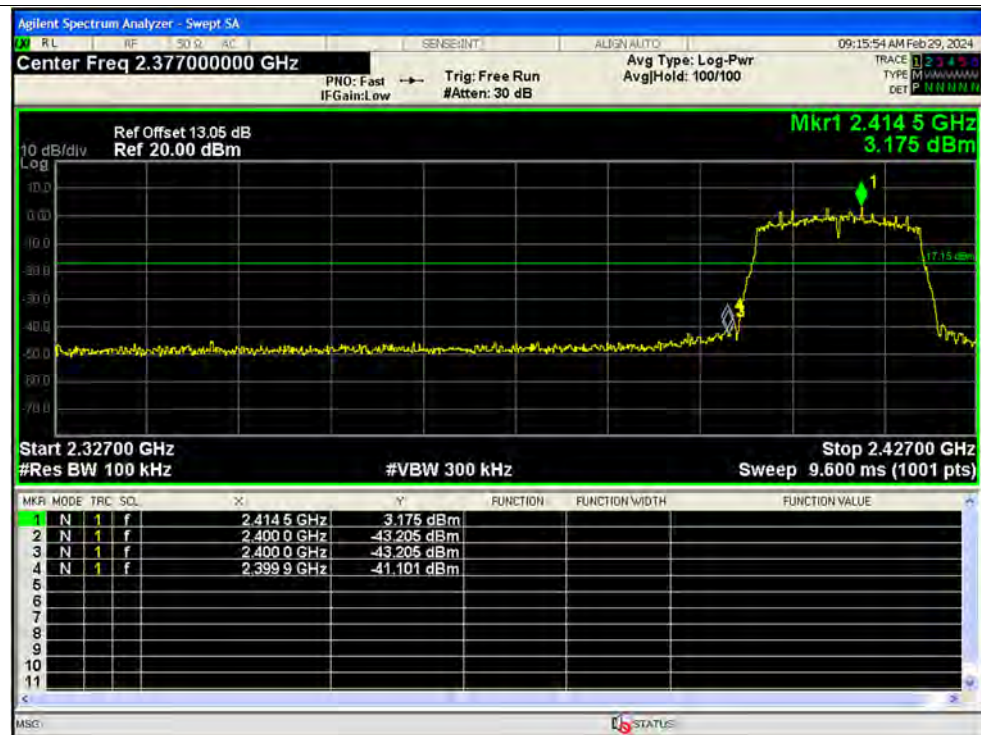
Band Edge NVNT n20 2462MHz Ant2 Emission SISO



Band Edge NVNT n20 2412MHz Ant1 Ref MIMO



Band Edge NVNT n20 2412MHz Ant1 Emission MIMO

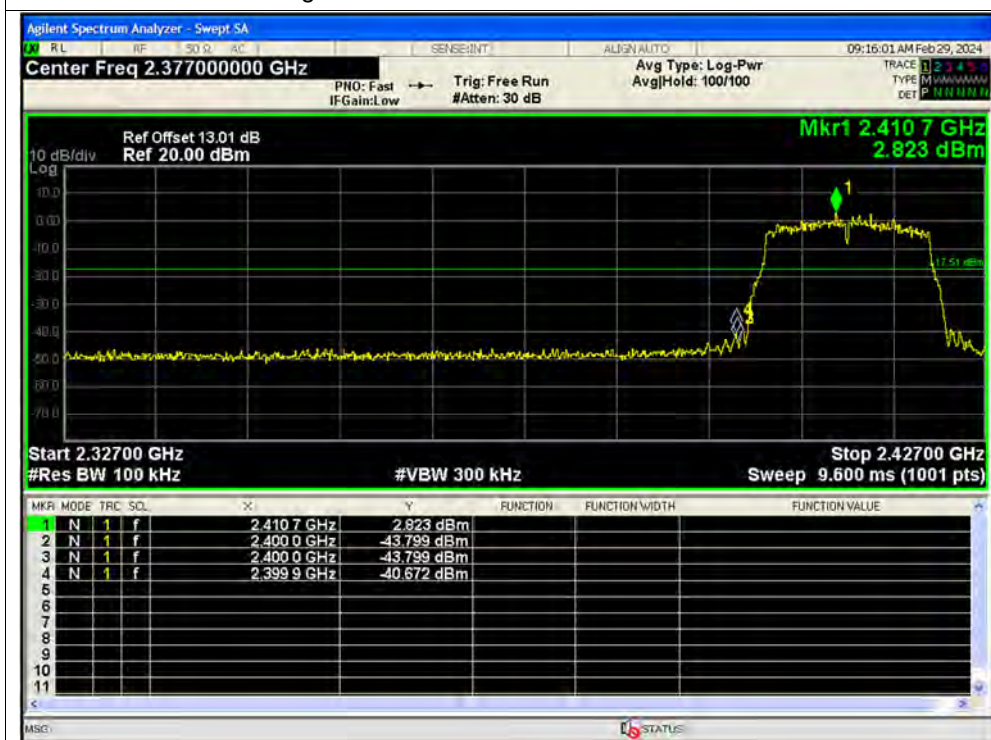




Band Edge NVNT n20 2412MHz Ant2 Ref MIMO



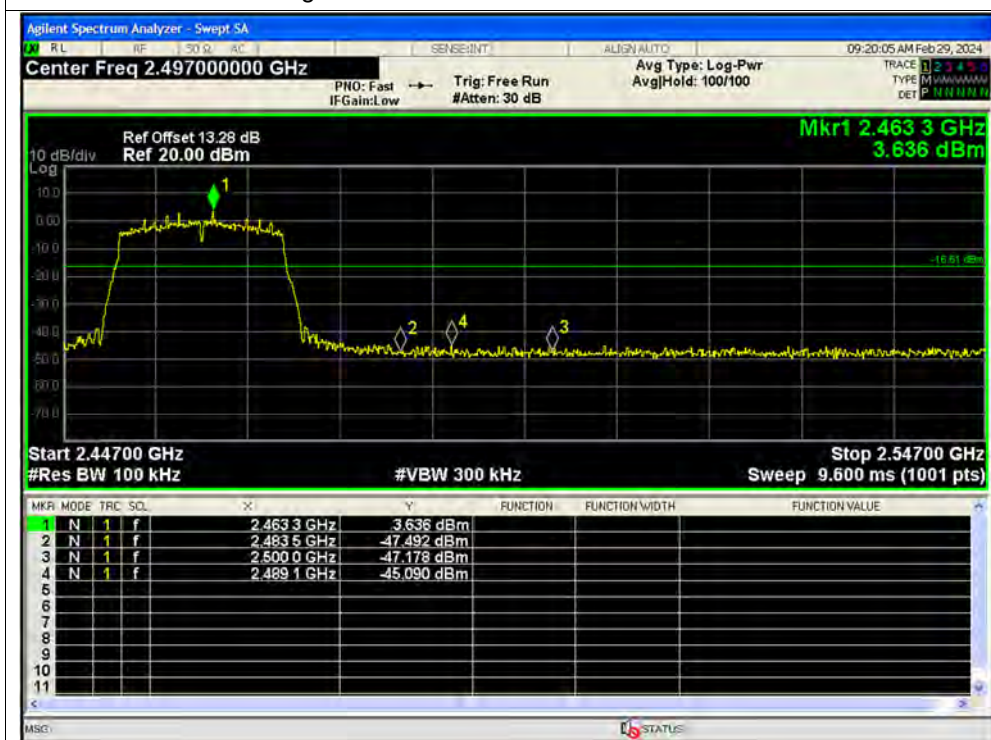
Band Edge NVNT n20 2412MHz Ant2 Emission MIMO



Band Edge NVNT n20 2462MHz Ant1 Ref MIMO



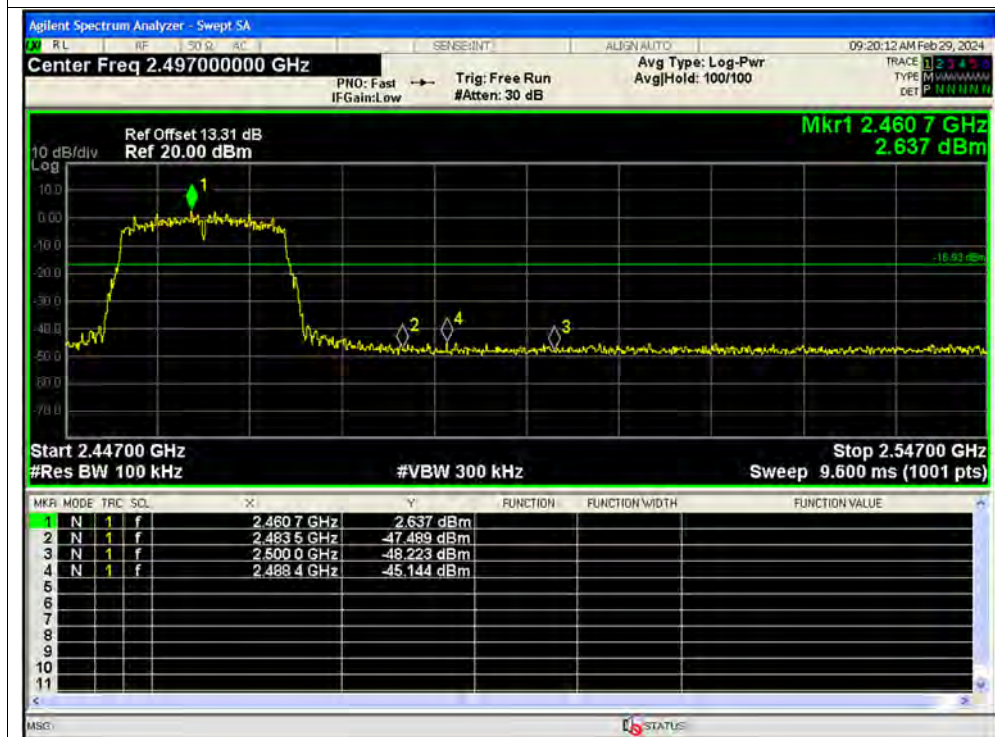
Band Edge NVNT n20 2462MHz Ant1 Emission MIMO



Band Edge NVNT n20 2462MHz Ant2 Ref MIMO



Band Edge NVNT n20 2462MHz Ant2 Emission MIMO

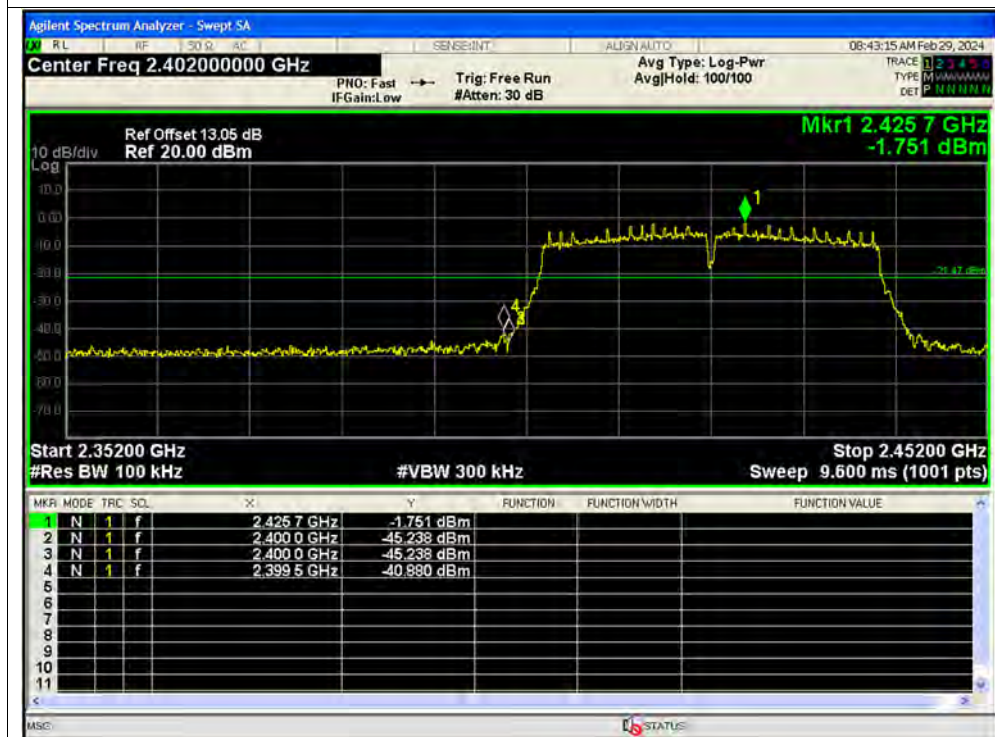




Band Edge NVNT n40 2422MHz Ant1 Ref SISO



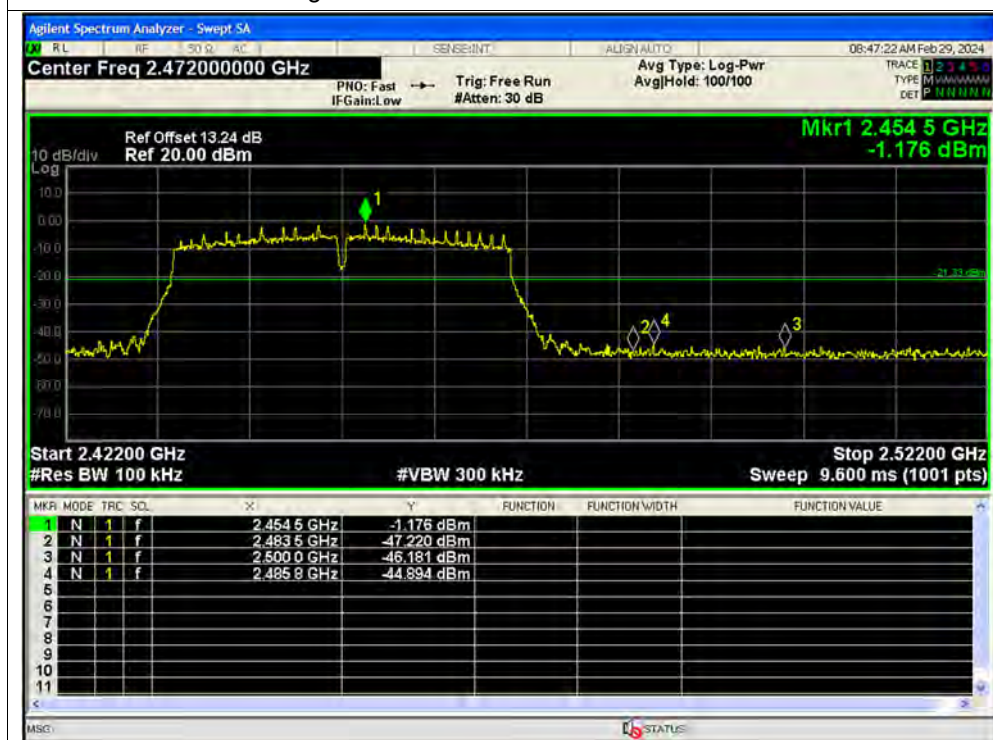
Band Edge NVNT n40 2422MHz Ant1 Emission SISO



Band Edge NVNT n40 2452MHz Ant1 Ref SISO



Band Edge NVNT n40 2452MHz Ant1 Emission SISO

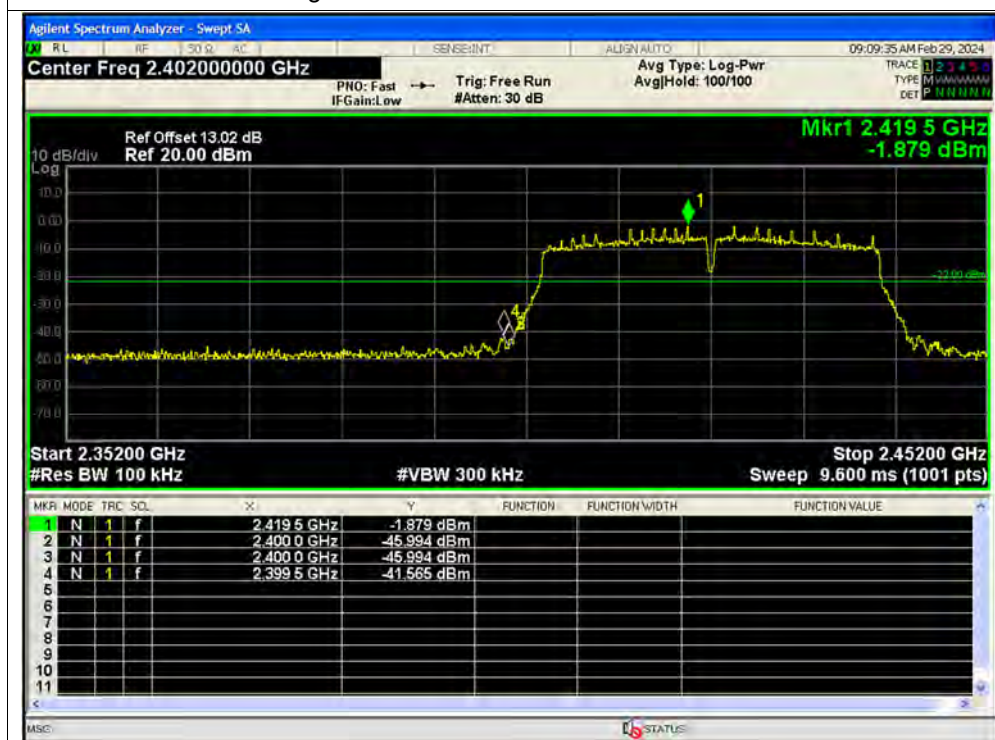




Band Edge NVNT n40 2422MHz Ant2 Ref SISO



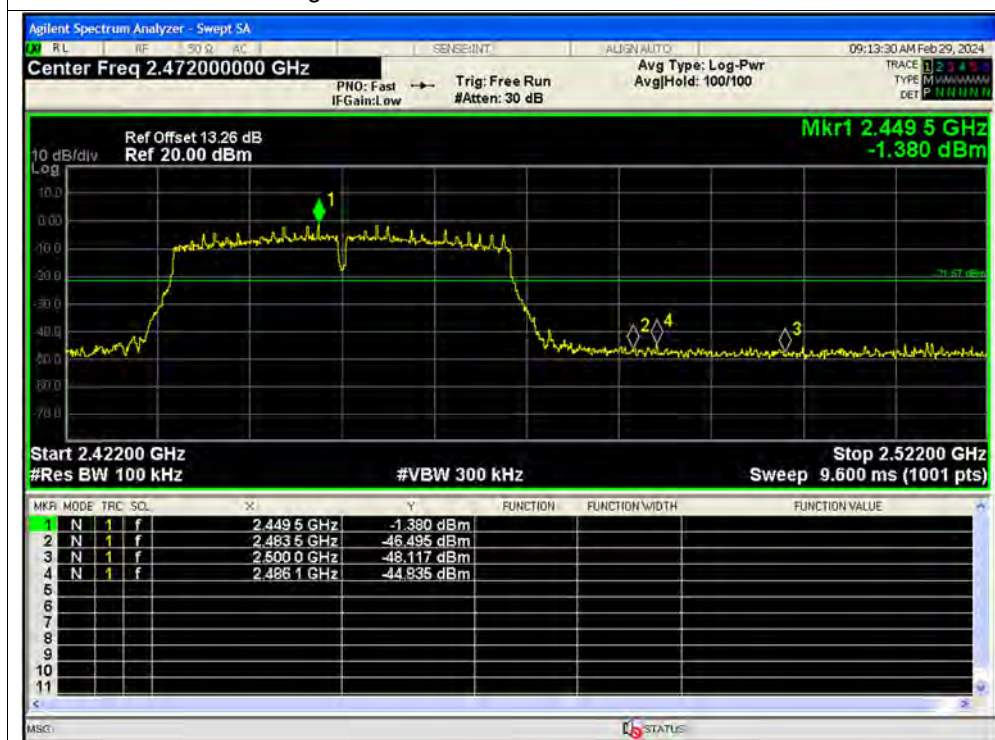
Band Edge NVNT n40 2422MHz Ant2 Emission SISO



Band Edge NVNT n40 2452MHz Ant2 Ref SISO



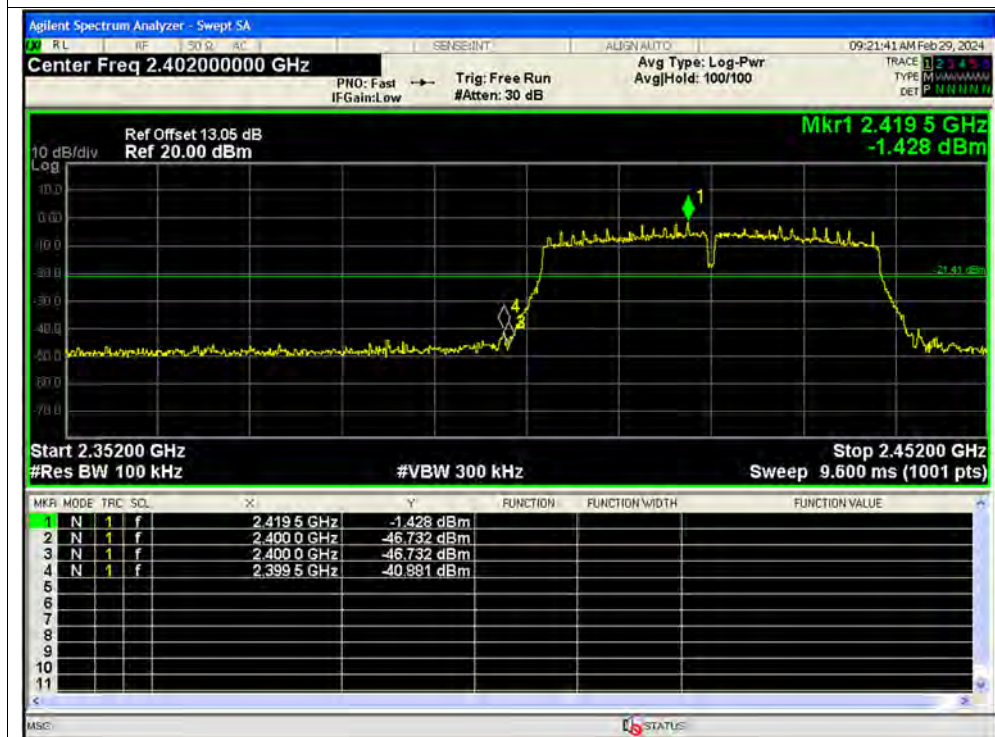
Band Edge NVNT n40 2452MHz Ant2 Emission SISO



Band Edge NVNT n40 2422MHz Ant1 Ref MIMO



Band Edge NVNT n40 2422MHz Ant1 Emission MIMO

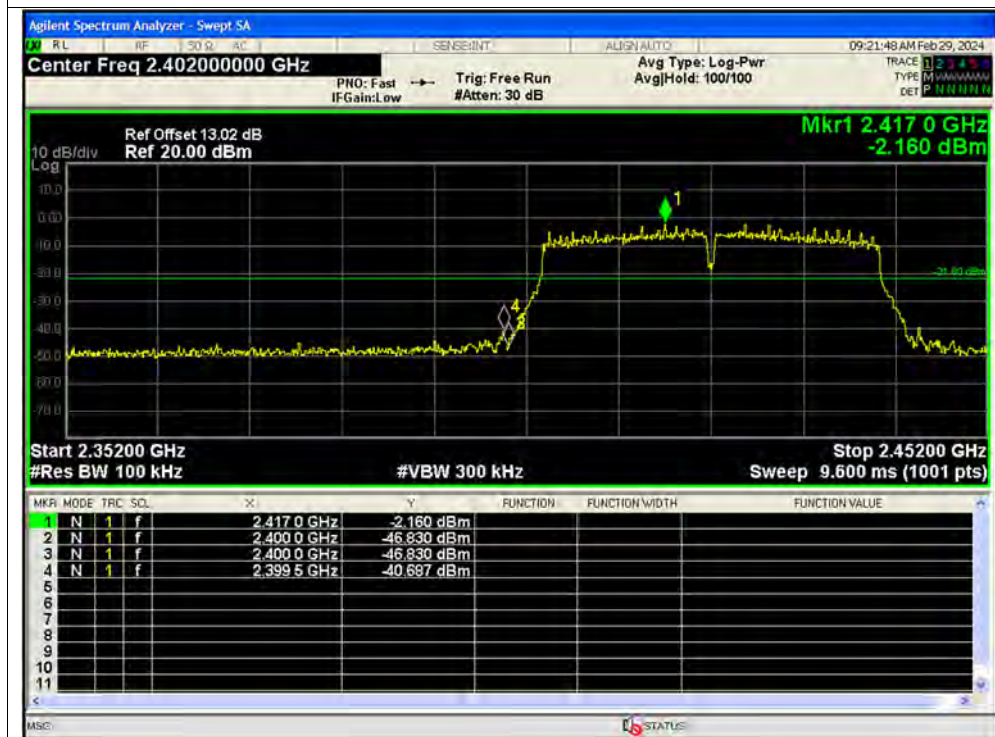




Band Edge NVNT n40 2422MHz Ant2 Ref MIMO



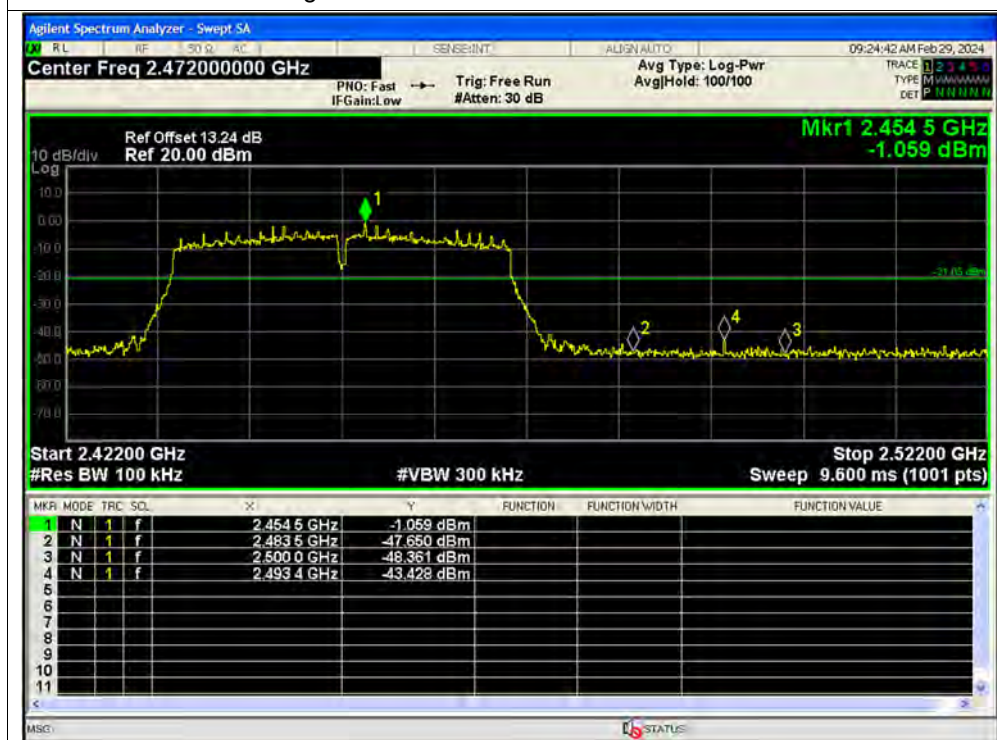
Band Edge NVNT n40 2422MHz Ant2 Emission MIMO



Band Edge NVNT n40 2452MHz Ant1 Ref MIMO



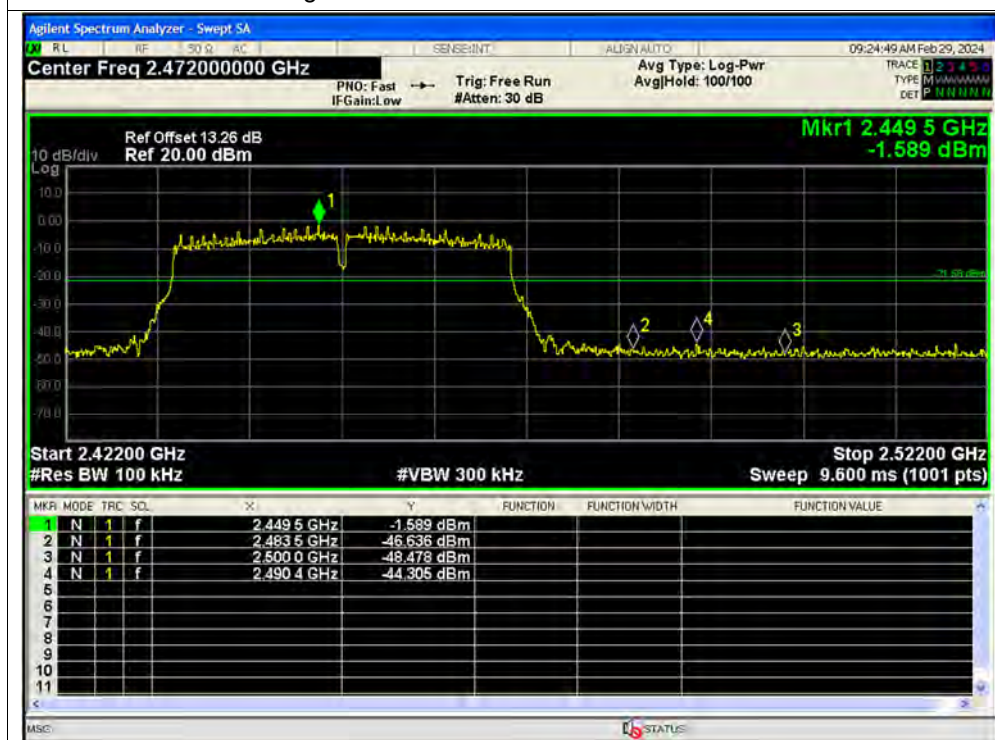
Band Edge NVNT n40 2452MHz Ant1 Emission MIMO



Band Edge NVNT n40 2452MHz Ant2 Ref MIMO



Band Edge NVNT n40 2452MHz 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	-8.29	0	-8.29	8	Pass
NVNT	b SISO	2437	Ant1	-3.83	0	-3.83	8	Pass
NVNT	b SISO	2462	Ant1	-4.87	0	-4.87	8	Pass
NVNT	b SISO	2412	Ant2	-4.67	0	-4.67	8	Pass
NVNT	b SISO	2437	Ant2	-4.2	0	-4.2	8	Pass
NVNT	b SISO	2462	Ant2	-7.64	0	-7.64	8	Pass
NVNT	g SISO	2412	Ant1	-11.29	0	-11.29	8	Pass
NVNT	g SISO	2437	Ant1	-10.14	0	-10.14	8	Pass
NVNT	g SISO	2462	Ant1	-10.23	0	-10.23	8	Pass
NVNT	g SISO	2412	Ant2	-11.25	0	-11.25	8	Pass
NVNT	g SISO	2437	Ant2	-11.27	0	-11.27	8	Pass
NVNT	g SISO	2462	Ant2	-10.87	0	-10.87	8	Pass
NVNT	n20 SISO	2412	Ant1	-10.74	0	-10.74	6.62	Pass
NVNT	n20 SISO	2437	Ant1	-12.36	0	-12.36	6.62	Pass
NVNT	n20 SISO	2462	Ant1	-10.54	0	-10.54	6.62	Pass
NVNT	n20 SISO	2412	Ant2	-11.11	0	-11.11	6.62	Pass
NVNT	n20 SISO	2437	Ant2	-11.14	0	-11.14	6.62	Pass
NVNT	n20 SISO	2462	Ant2	-11.24	0	-11.24	6.62	Pass
NVNT	n20 MIMO	2412	Ant1	-10.6	0	-10.6	6.62	Pass
NVNT	n20 MIMO	2412	Ant2	-10.92	0	-10.92	6.62	Pass
NVNT	n20 MIMO	2412	Sum	-7.75	0	-7.75	6.62	Pass
NVNT	n20 MIMO	2437	Ant1	-11.3	0	-11.3	6.62	Pass
NVNT	n20 MIMO	2437	Ant2	-12.44	0	-12.44	6.62	Pass
NVNT	n20 MIMO	2437	Sum	-8.82	0	-8.82	6.62	Pass
NVNT	n20 MIMO	2462	Ant1	-10.47	0	-10.47	6.62	Pass
NVNT	n20 MIMO	2462	Ant2	-10.87	0	-10.87	6.62	Pass
NVNT	n20 MIMO	2462	Sum	-7.66	0	-7.66	6.62	Pass
NVNT	n40 SISO	2422	Ant1	-17.06	0	-17.06	6.62	Pass
NVNT	n40 SISO	2437	Ant1	-16.34	0	-16.34	6.62	Pass
NVNT	n40 SISO	2452	Ant1	-16.54	0	-16.54	6.62	Pass
NVNT	n40 SISO	2422	Ant2	-17.23	0	-17.23	6.62	Pass
NVNT	n40 SISO	2437	Ant2	-16.69	0	-16.69	6.62	Pass
NVNT	n40 SISO	2452	Ant2	-16.79	0	-16.79	6.62	Pass



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NVNT	n40 MIMO	2422	Ant1	-16.74	0	-16.74	6.62	Pass
NVNT	n40 MIMO	2422	Ant2	-17.08	0	-17.08	6.62	Pass
NVNT	n40 MIMO	2422	Sum	-13.9	0	-13.9	6.62	Pass
NVNT	n40 MIMO	2437	Ant1	-16.37	0	-16.37	6.62	Pass
NVNT	n40 MIMO	2437	Ant2	-16.78	0	-16.78	6.62	Pass
NVNT	n40 MIMO	2437	Sum	-13.56	0	-13.56	6.62	Pass
NVNT	n40 MIMO	2452	Ant1	-16.39	0	-16.39	6.62	Pass
NVNT	n40 MIMO	2452	Ant2	-16.56	0	-16.56	6.62	Pass
NVNT	n40 MIMO	2452	Sum	-13.46	0	-13.46	6.62	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1 SISO



PSD NVNT b 2437MHz Ant1 SISO





PSD NVNT b 2462MHz Ant1 SISO



PSD NVNT b 2412MHz Ant2 SISO



PSD NVNT b 2437MHz Ant2 SISO



PSD NVNT b 2462MHz Ant2 SISO





PSD NVNT g 2412MHz Ant1 SISO



PSD NVNT g 2437MHz Ant1 SISO

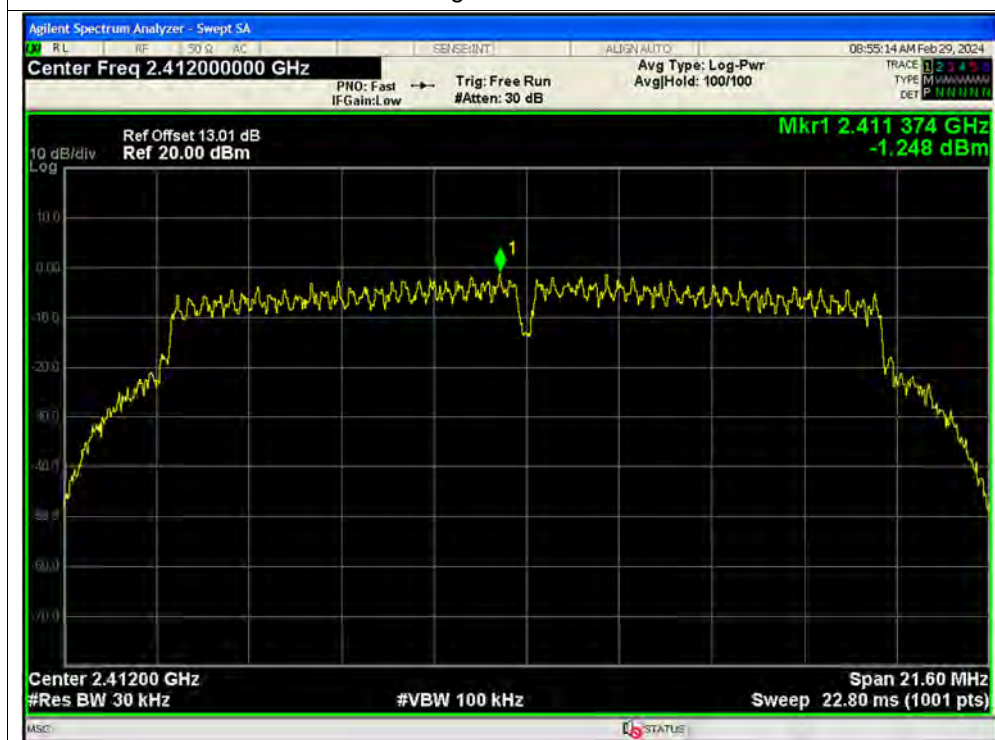




PSD NVNT g 2462MHz Ant1 SISO



PSD NVNT g 2412MHz Ant2 SISO





PSD NVNT g 2437MHz Ant2 SISO

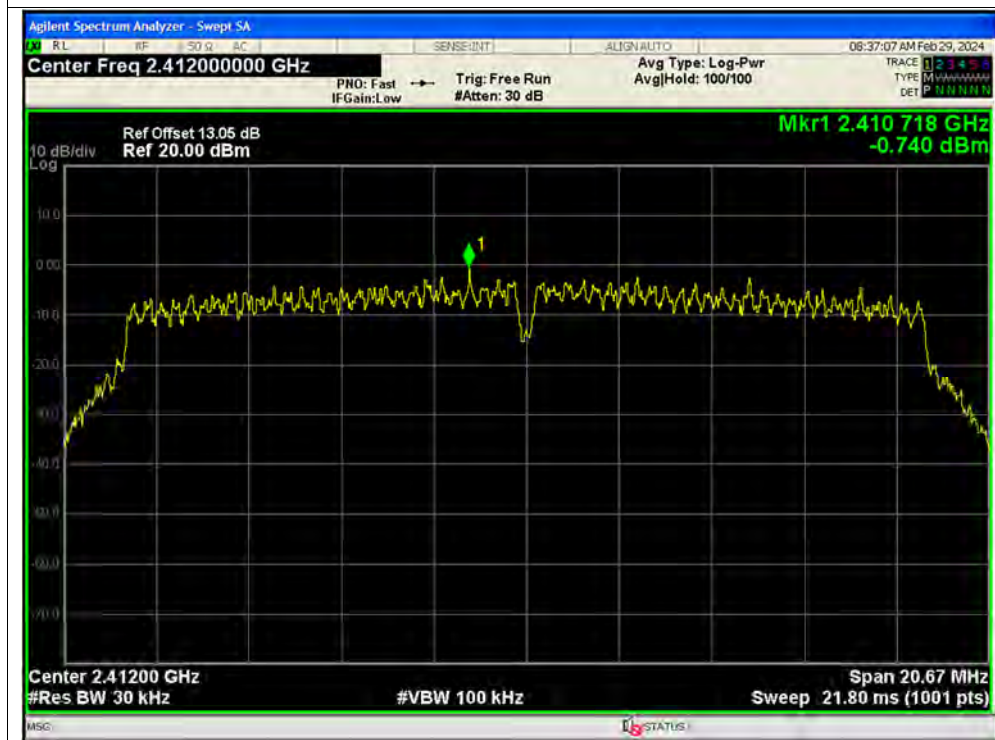


PSD NVNT g 2462MHz Ant2 SISO





PSD NVNT n20 2412MHz Ant1 SISO



PSD NVNT n20 2437MHz Ant1 SISO

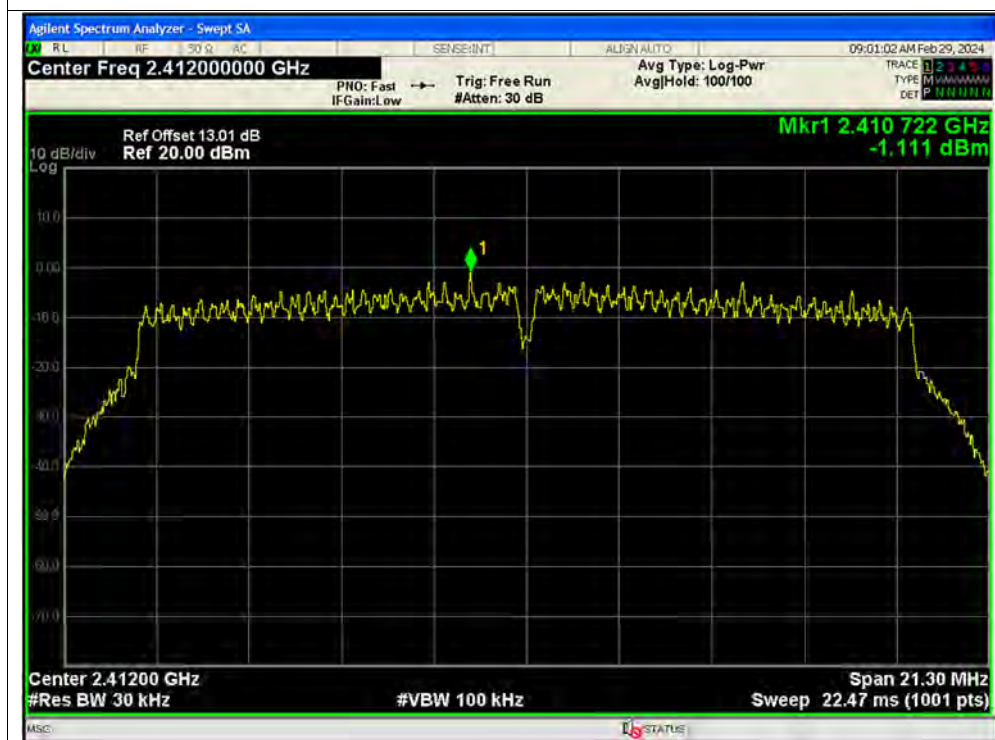




PSD NVNT n20 2462MHz Ant1 SISO

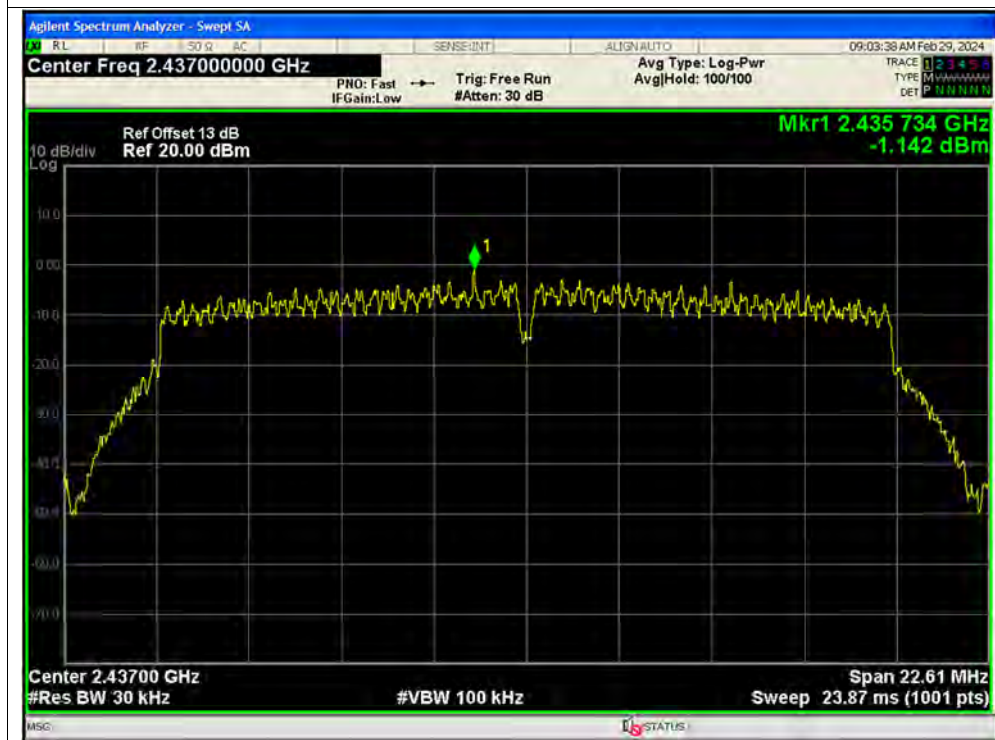


PSD NVNT n20 2412MHz Ant2 SISO





PSD NVNT n20 2437MHz Ant2 SISO

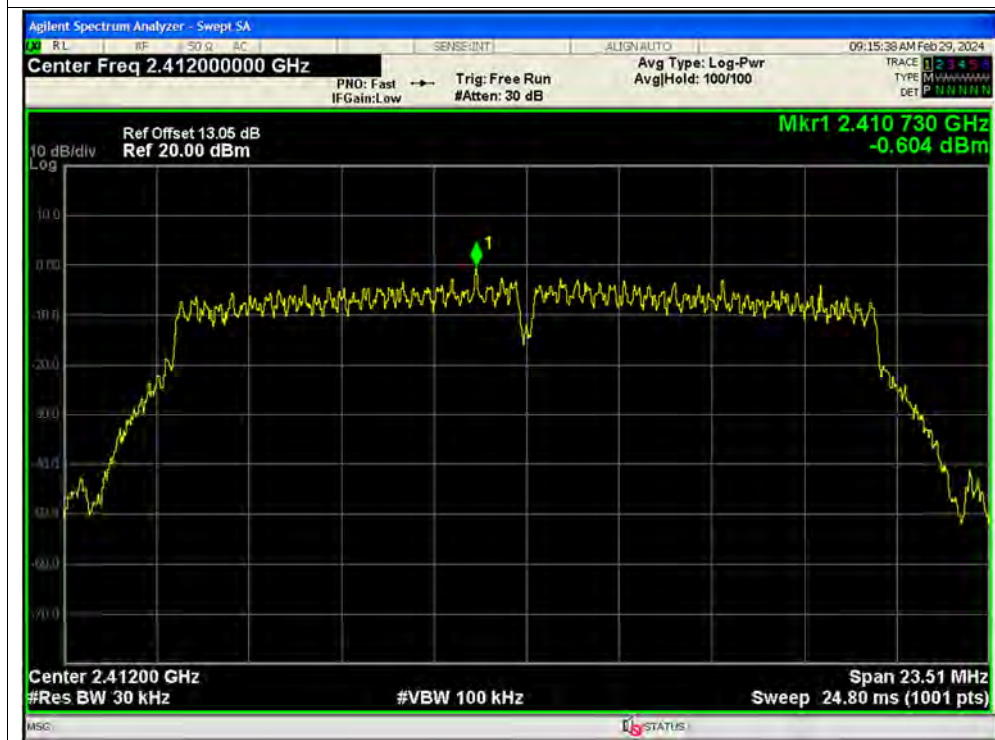


PSD NVNT n20 2462MHz Ant2 SISO





PSD NVNT n20 2412MHz Ant1 MIMO



PSD NVNT n20 2412MHz Ant2 MIMO





PSD NVNT n20 2437MHz Ant1 MIMO



PSD NVNT n20 2437MHz Ant2 MIMO





PSD NVNT n20 2462MHz Ant1 MIMO



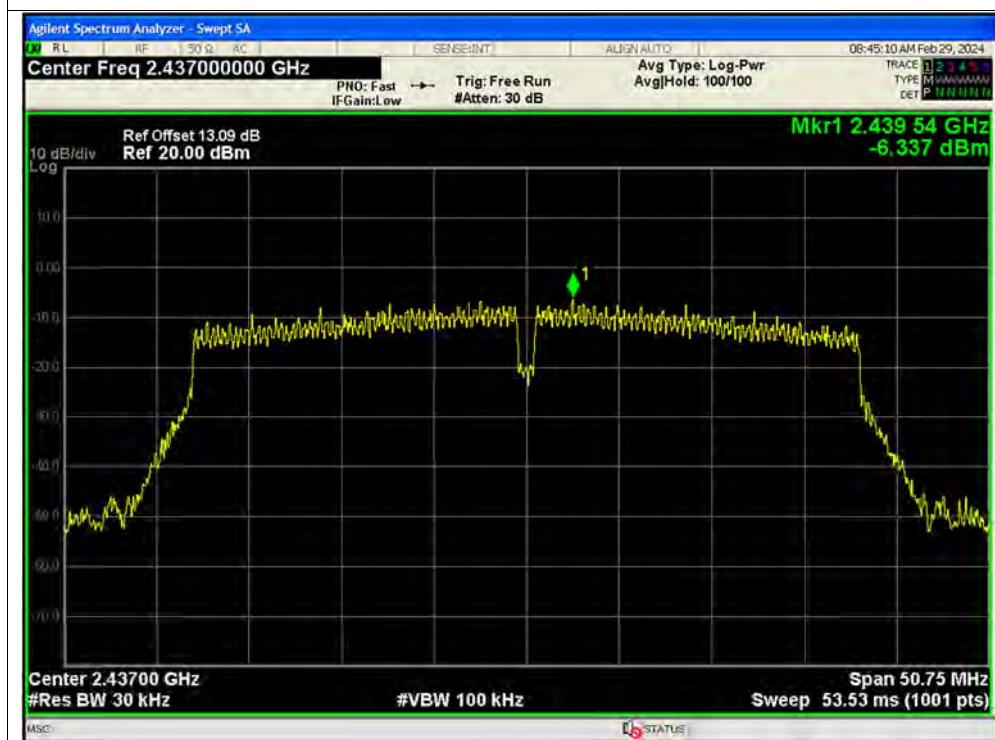
PSD NVNT n20 2462MHz Ant2 MIMO



PSD NVNT n40 2422MHz Ant1 SISO



PSD NVNT n40 2437MHz Ant1 SISO

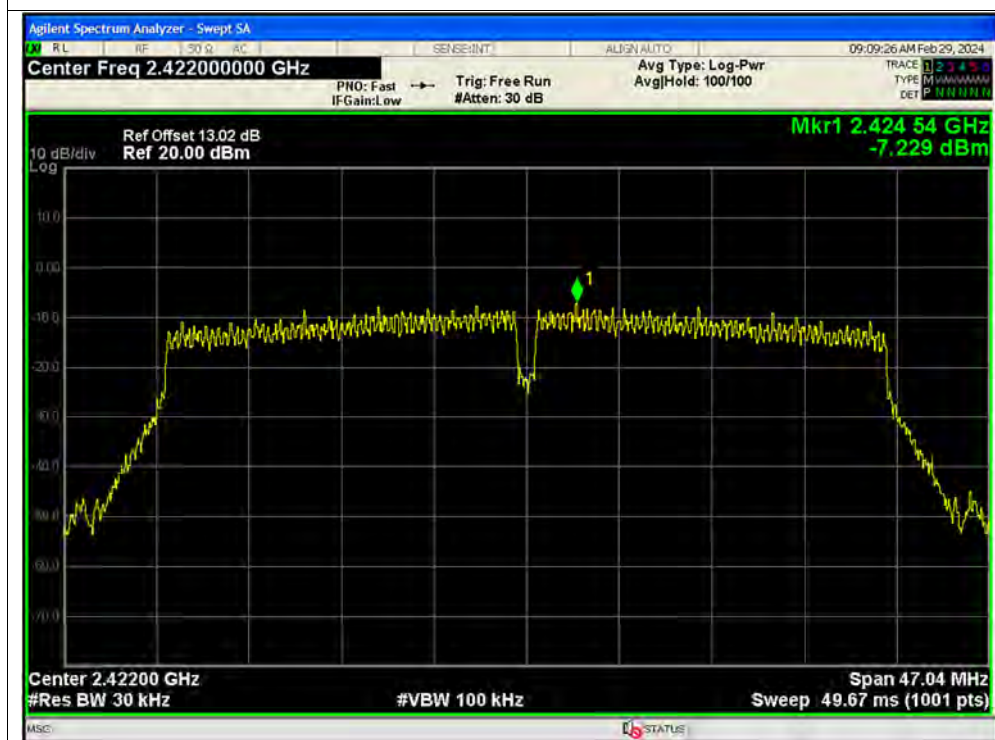




PSD NVNT n40 2452MHz Ant1 SISO



PSD NVNT n40 2422MHz Ant2 SISO





PSD NVNT n40 2437MHz Ant2 SISO



PSD NVNT n40 2452MHz Ant2 SISO





PSD NVNT n40 2422MHz Ant1 MIMO



PSD NVNT n40 2422MHz Ant2 MIMO

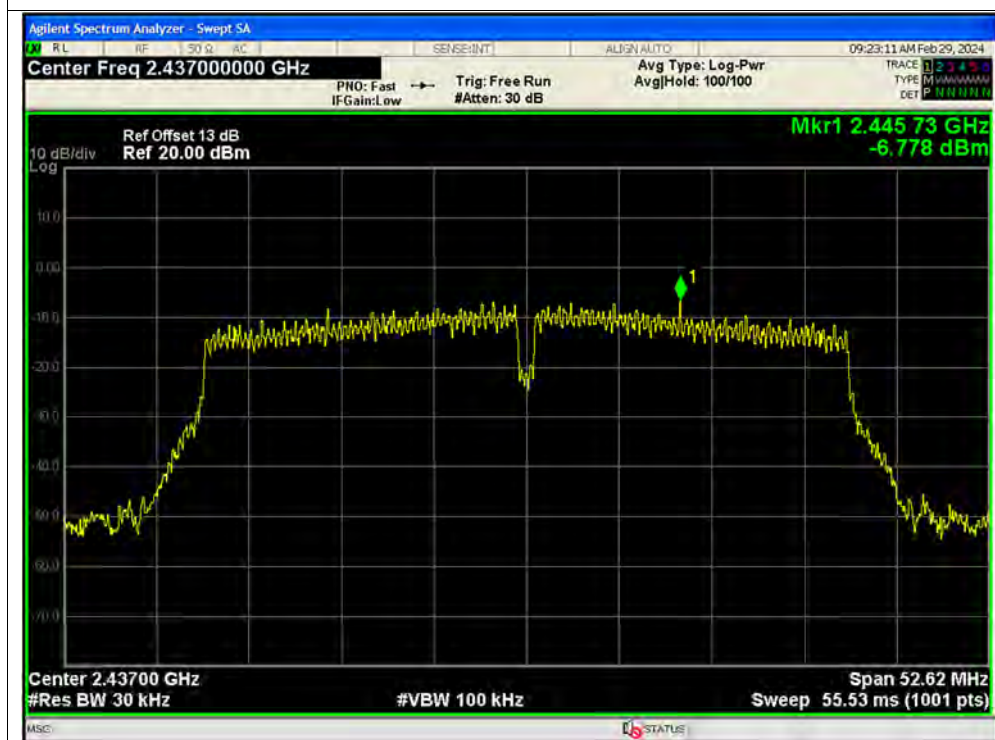




PSD NVNT n40 2437MHz Ant1 MIMO



PSD NVNT n40 2437MHz Ant2 MIMO



PSD NVNT n40 2452MHz Ant1 MIMO



PSD NVNT n40 2452MHz 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 + PC adapter + WIFI TX

Test voltage: AC 120V/60Hz

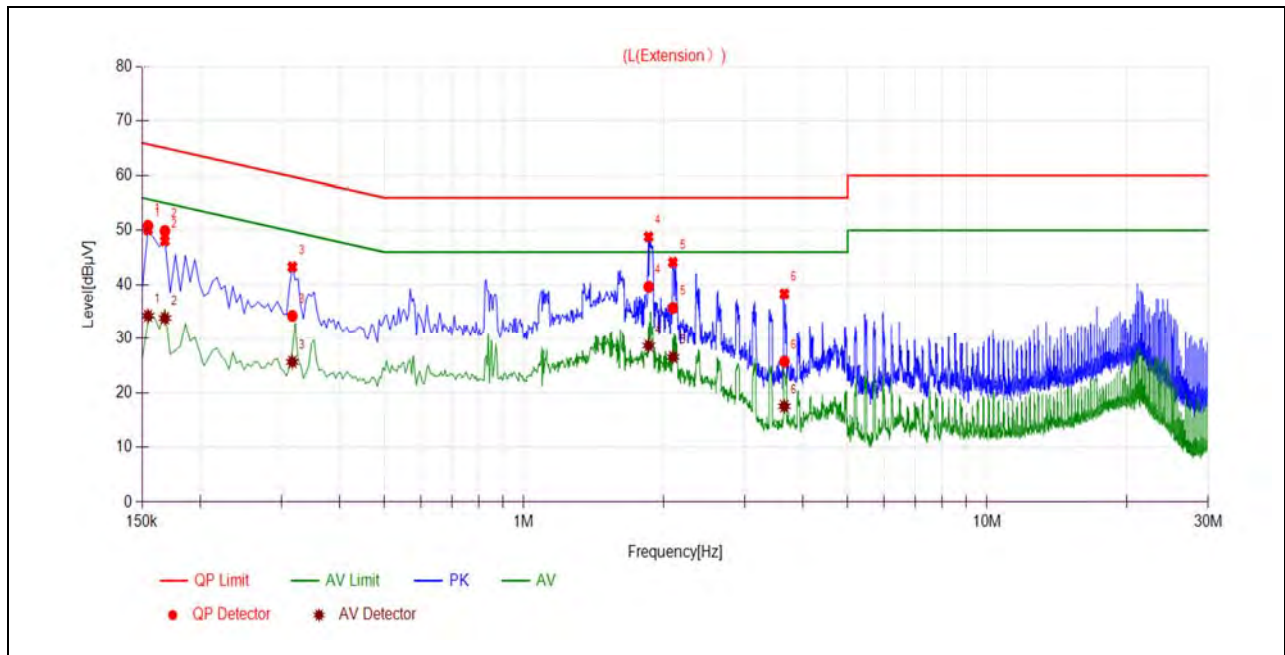
The measurement results are obtained as below:

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

U_R : Receiver Reading

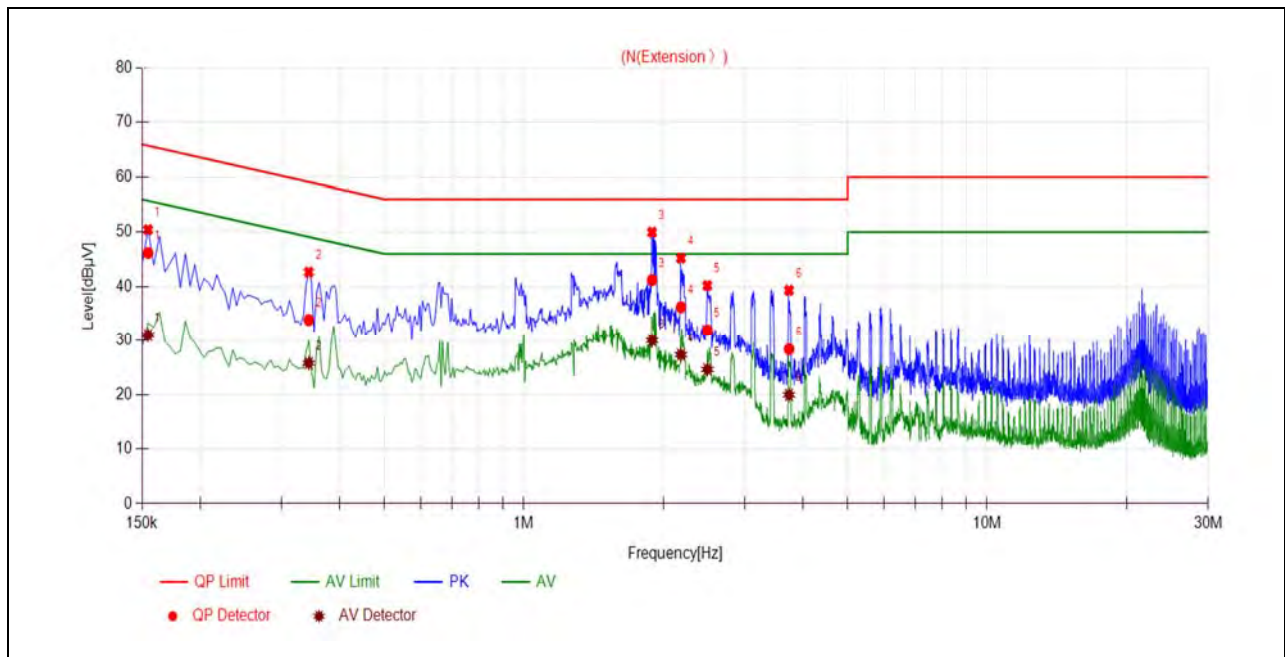
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1545	50.85	34.27	65.75	55.75	Line	PASS
2	0.1680	49.89	33.85	65.06	55.06		PASS
3	0.3165	34.25	25.63	59.80	49.80		PASS
4	1.8598	39.60	28.65	56.00	46.00		PASS
5	2.0987	35.72	26.55	56.00	46.00		PASS
6	3.6510	25.70	17.49	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	0.1545	46.17	31.04	65.75	55.75	Neutral	PASS
2	0.3435	33.84	25.78	59.12	49.12		PASS
3	1.8917	41.21	30.02	56.00	46.00		PASS
4	2.1840	36.21	27.35	56.00	46.00		PASS
5	2.4898	31.93	24.63	56.00	46.00		PASS
6	3.7364	28.37	19.93	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

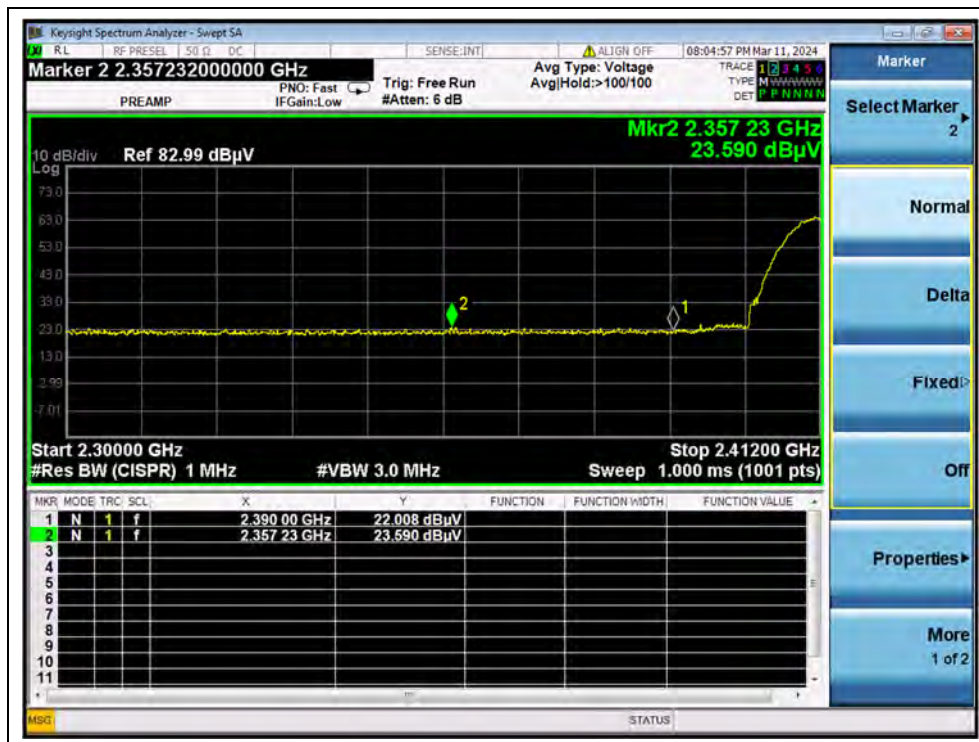
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

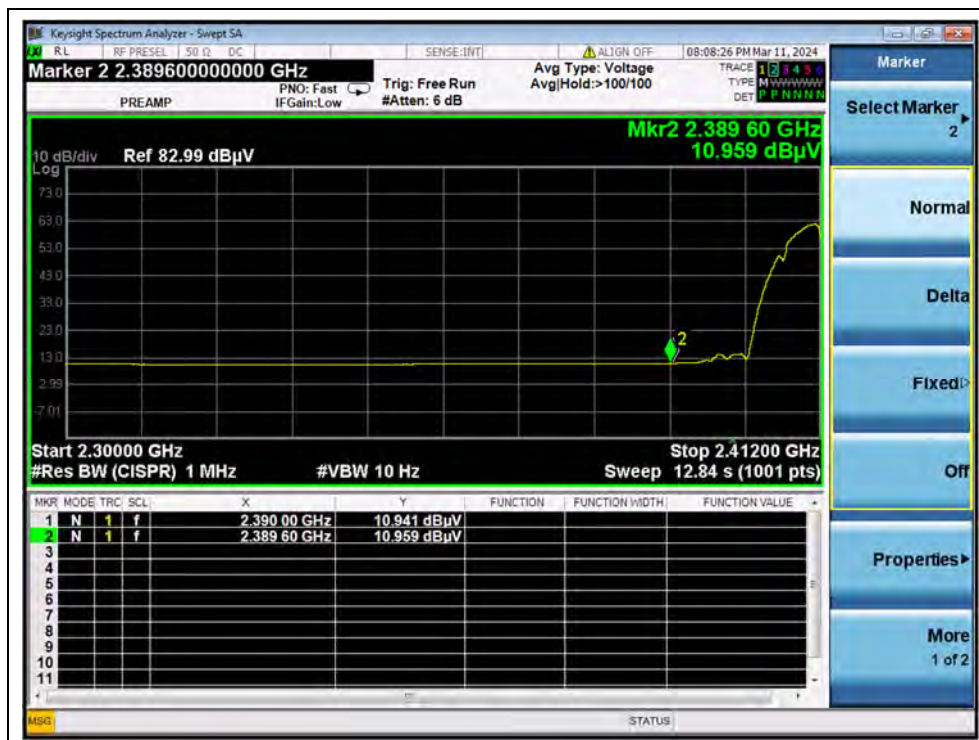
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Mode

Channel	Frequency (MHz)	Detector	Receiver Reading 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	2357.23	PK	23.59	6.74	27.20	57.53	74	PASS
1	2389.60	AV	10.96	6.74	27.20	44.90	54	PASS
11	2485.26	PK	24.07	6.74	27.20	58.01	74	PASS
11	2483.70	AV	10.73	6.74	27.20	44.67	54	PASS



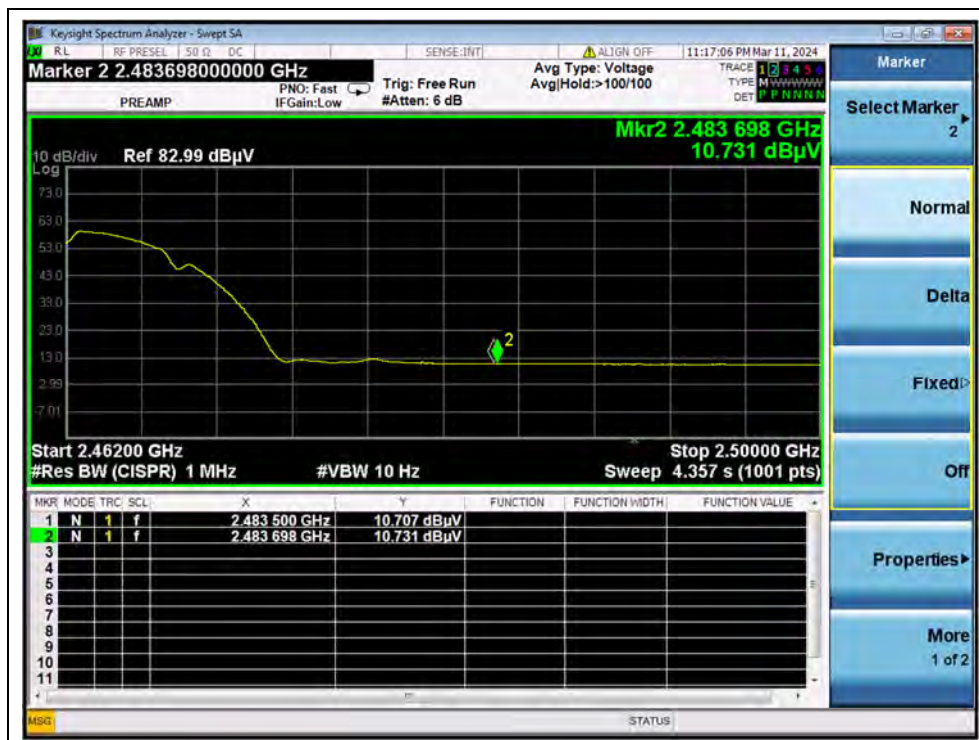
(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

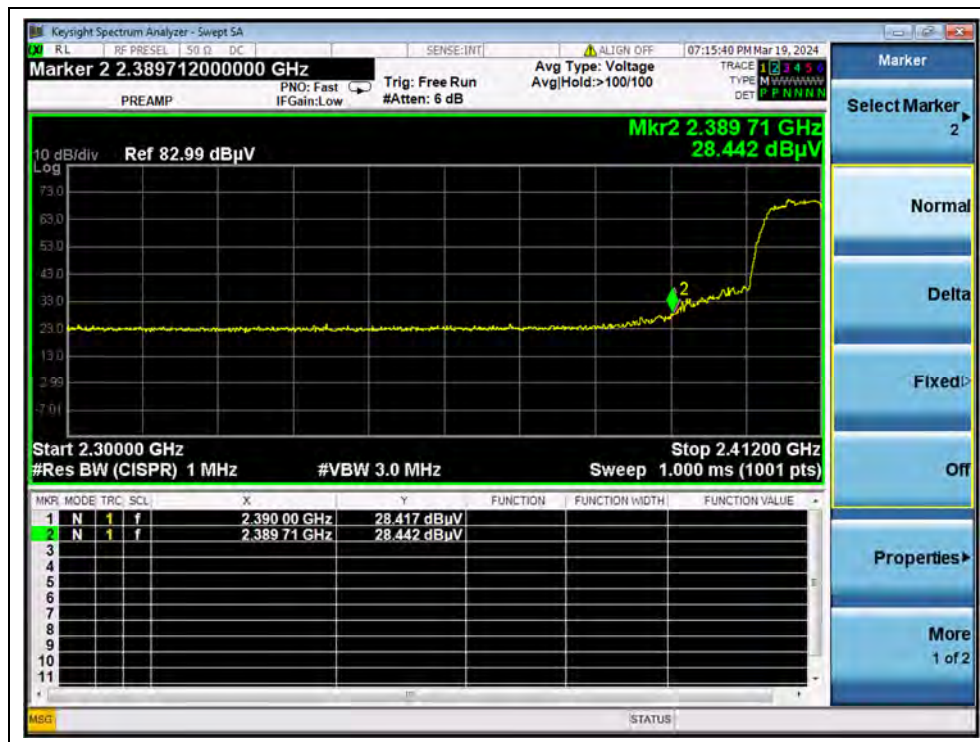


(AVERAGE, Channel 11, 802.11b)

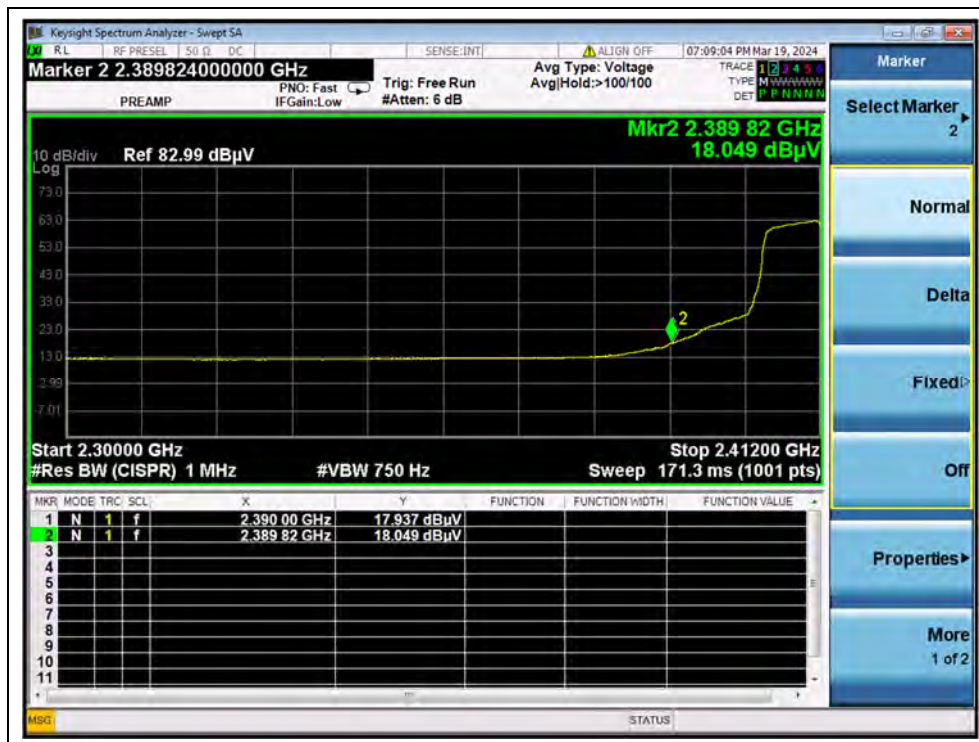


802.11g Mode

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	28.44	6.74	27.20	62.38	74	PASS
1	2389.82	AV	18.05	6.74	27.20	51.99	54	PASS
11	2483.50	PK	27.18	6.74	27.20	61.12	74	PASS
11	2483.50	AV	16.82	6.74	27.20	50.76	54	PASS



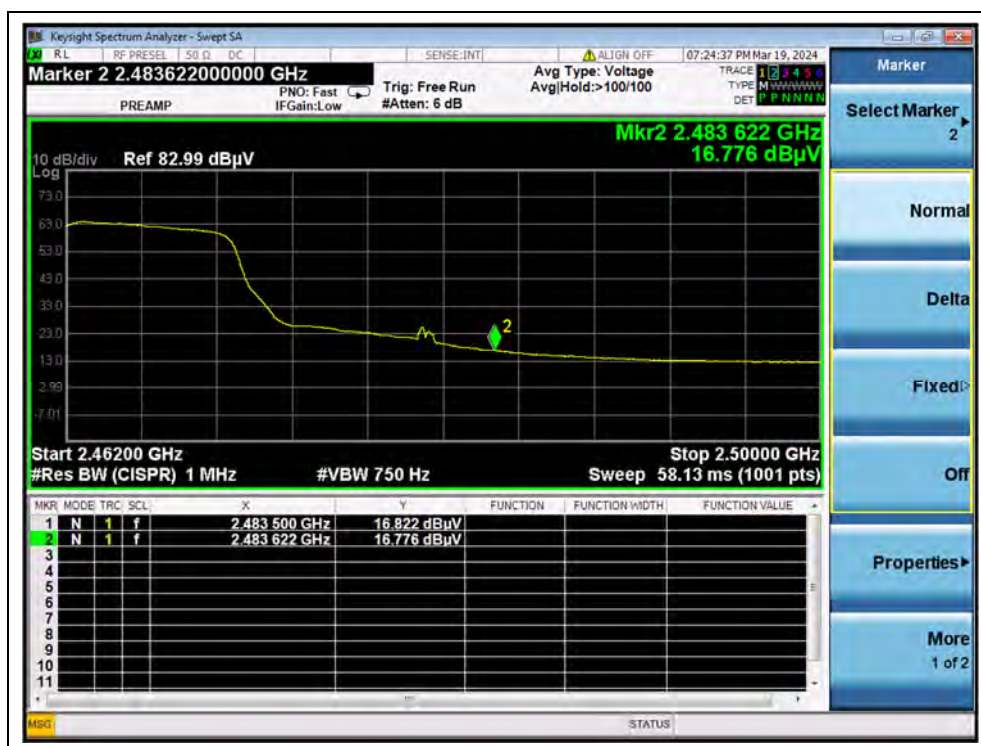
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

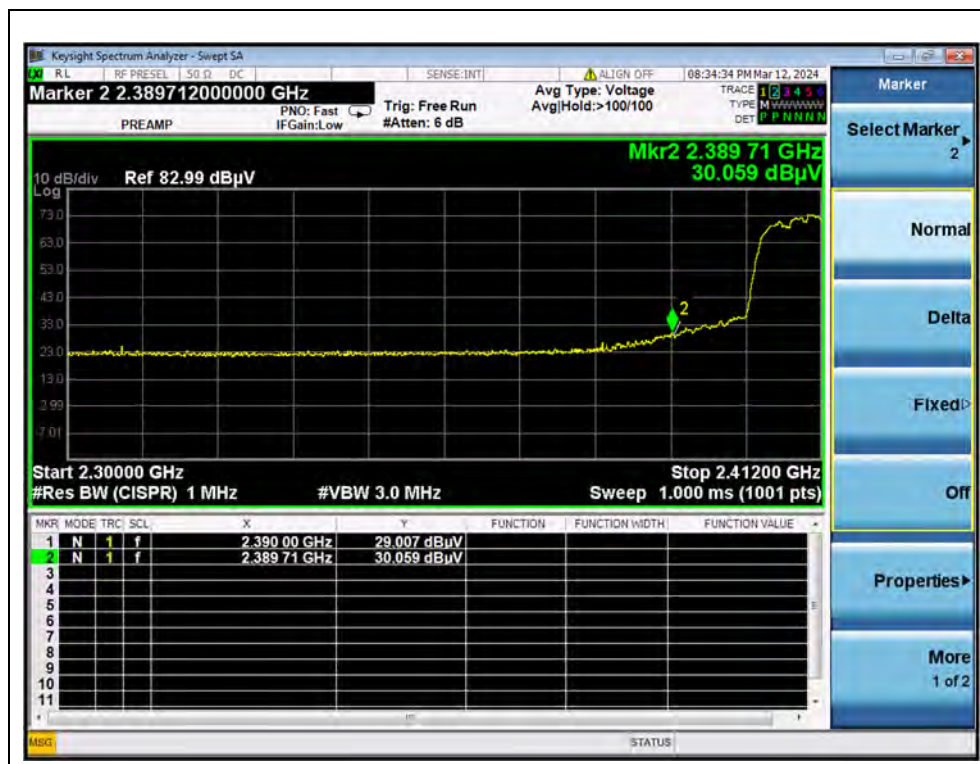


(AVERAGE, Channel 11, 802.11g)

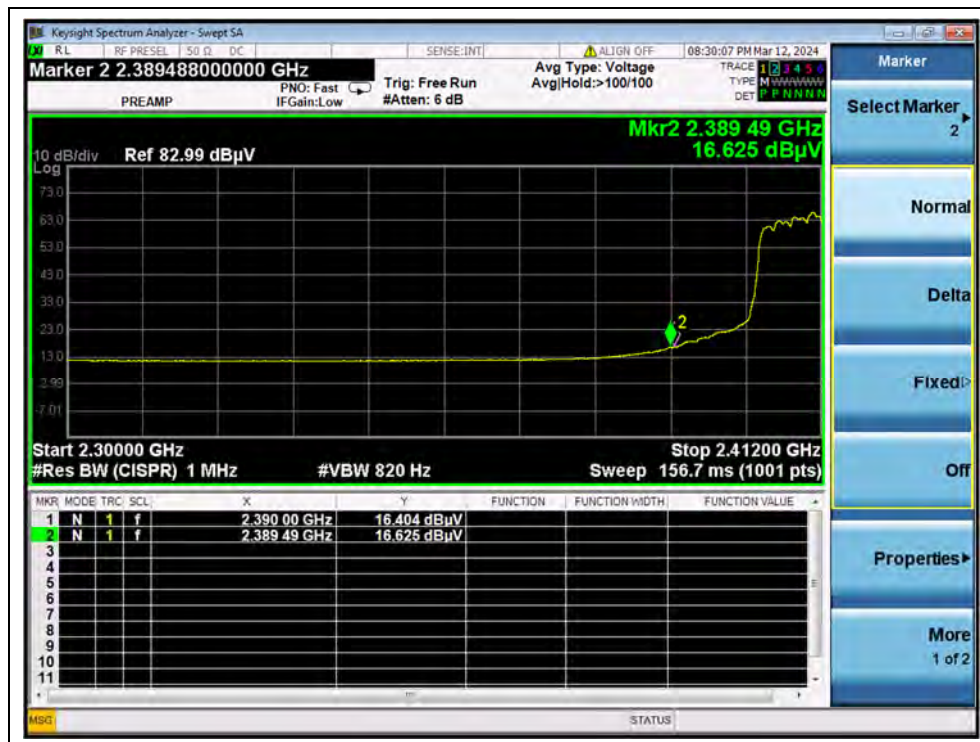


802.11n (HT20) Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2389.71	PK	30.06	6.74	27.20	64.00	74	PASS
1	2389.49	AV	16.63	6.74	27.20	50.57	54	PASS
11	2483.55	PK	28.78	6.74	27.20	62.72	74	PASS
11	2483.50	AV	15.76	6.74	27.20	49.70	54	PASS



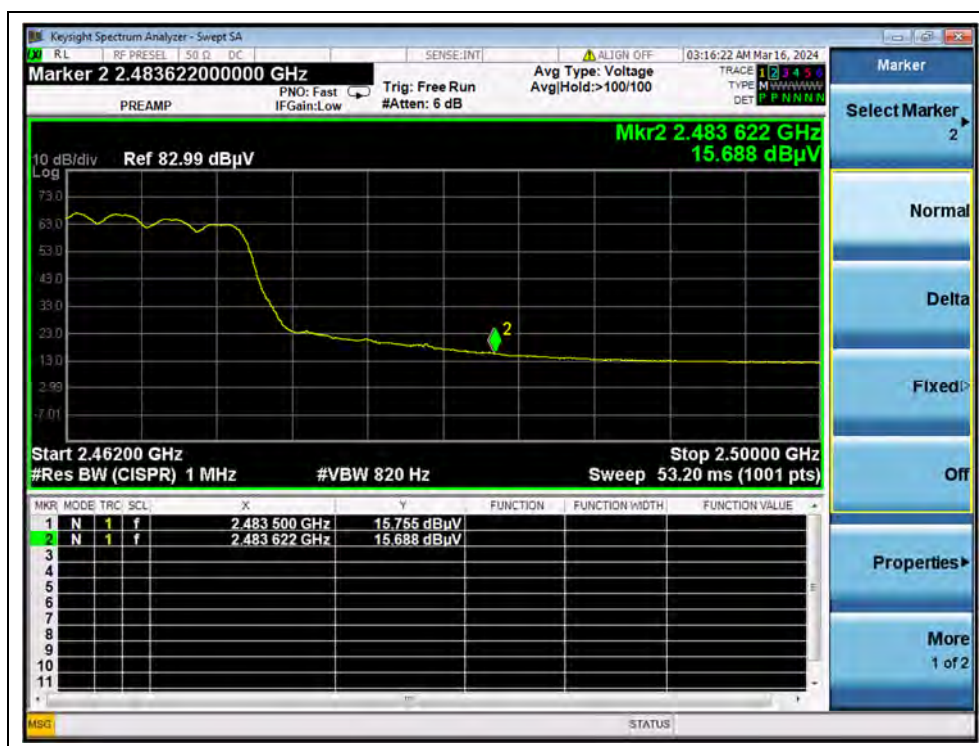
(PEAK, Channel 1, 802.11n (HT20))



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



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



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

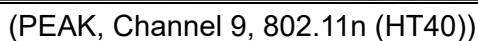


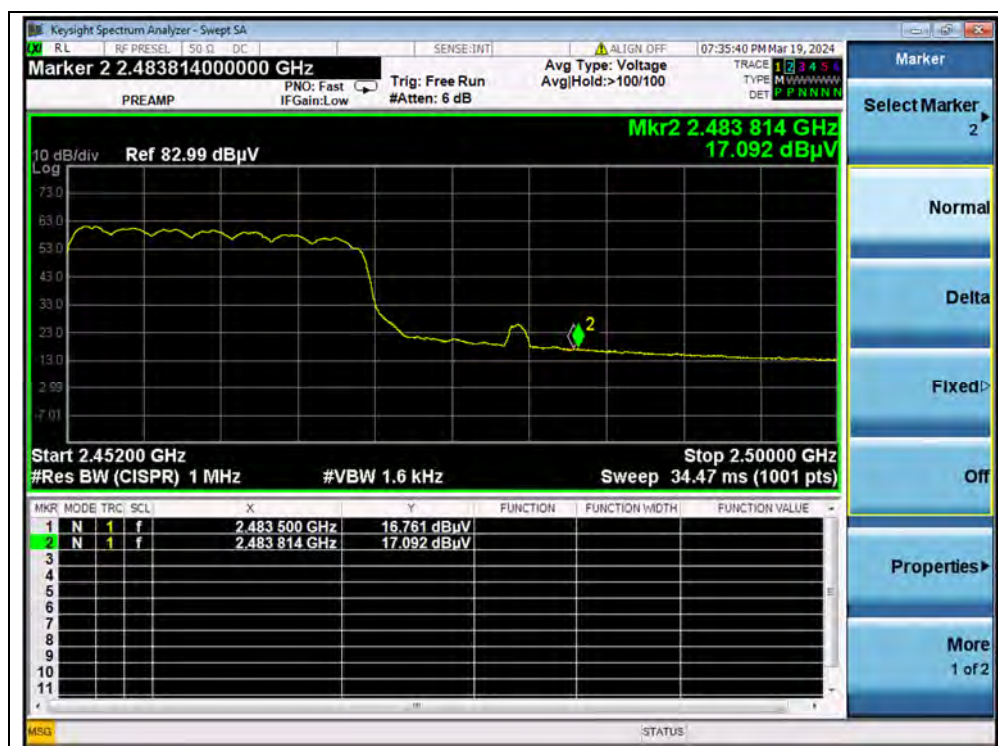
802.11n (HT40) Mode

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	2387.47	PK	29.12	6.74	27.20	63.06	74	PASS
3	2389.67	AV	18.15	6.74	27.20	52.09	54	PASS
9	2485.06	PK	28.89	6.74	27.20	62.83	74	PASS
9	2483.81	AV	17.09	6.74	27.20	51.03	54	PASS



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





(AVERAGE, Channel 9, 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.

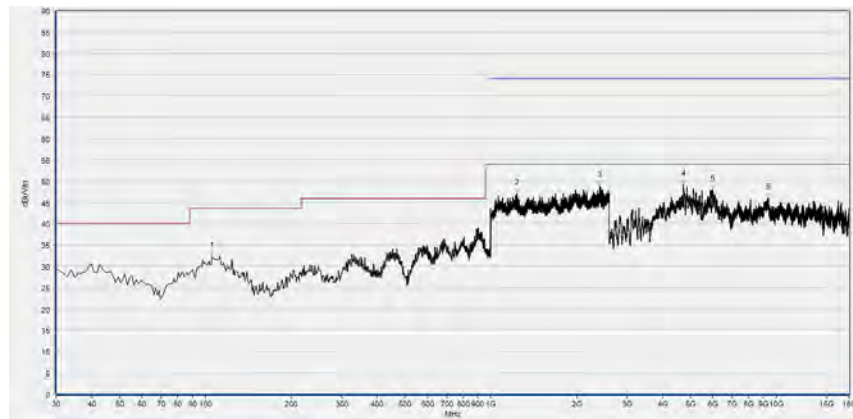
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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	32.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1233.600	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2411.200	49.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4731.360	49.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5984.920	48.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9360.600	46.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

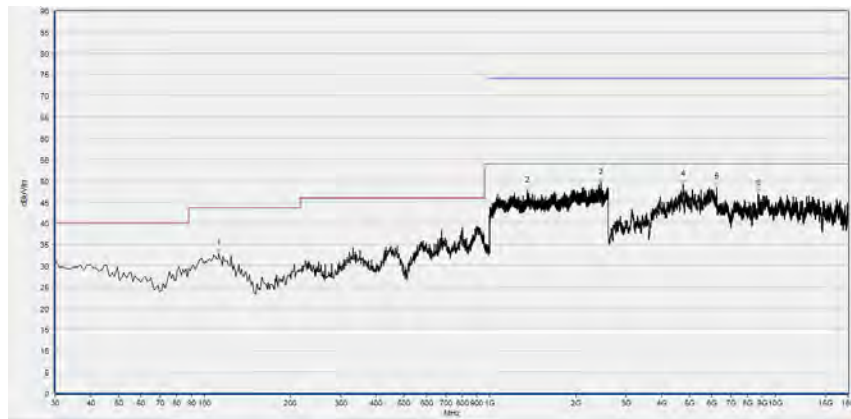
(Antenna Horizontal, 30MHz to 18GHz)



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
108.570	33.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1371.733	46.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1976.533	48.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4746.760	48.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5889.440	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9351.360	46.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

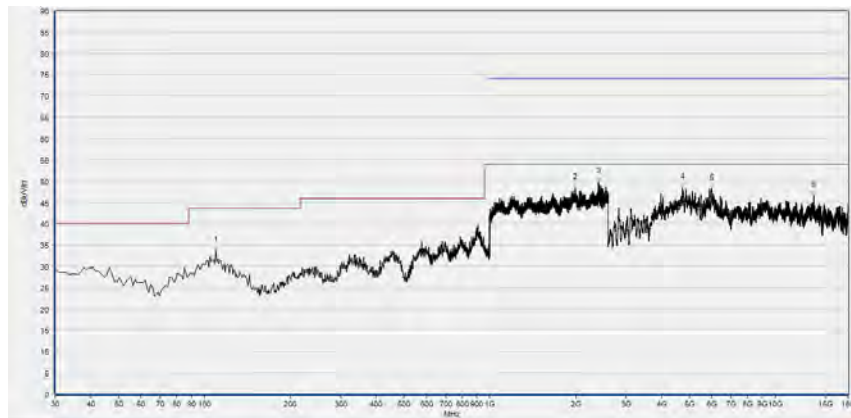
(Antenna Vertical, 30MHz to 18GHz)

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	32.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1352.000	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2450.667	49.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4752.920	49.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6225.160	48.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8729.200	46.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

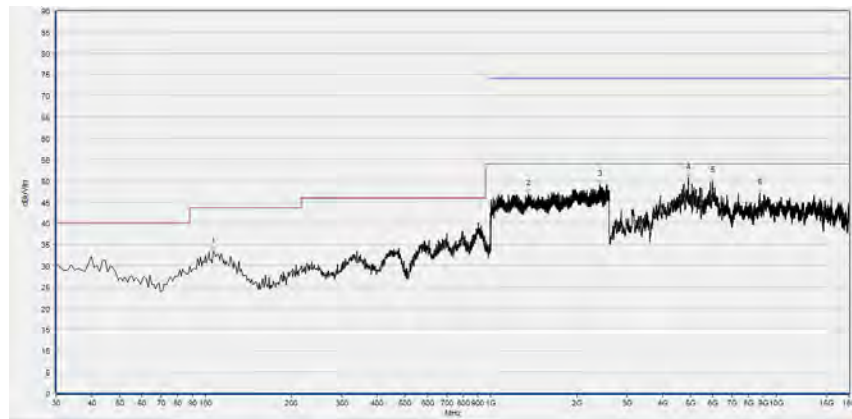


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	33.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1992.533	48.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2402.133	49.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	48.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5972.600	48.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13678.760	46.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

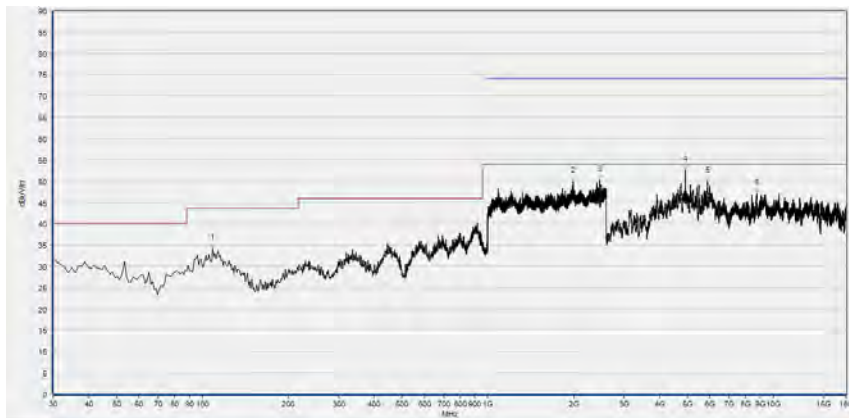


Plot for Channel 11



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	33.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1352.533	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2405.867	49.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4922.320	50.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5981.840	49.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8735.360	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

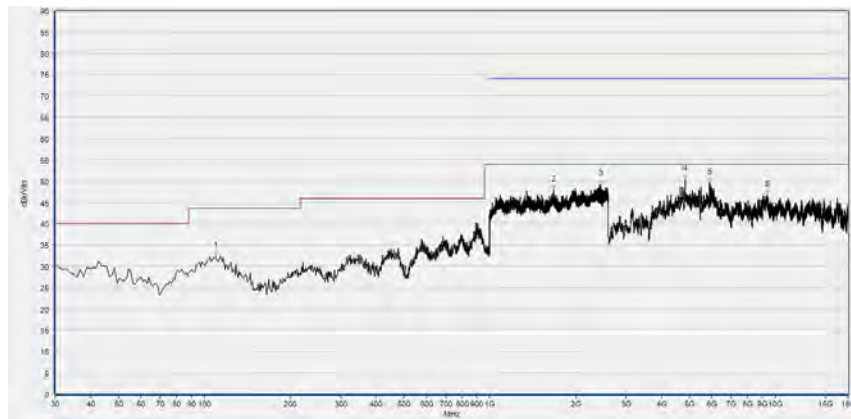


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	34.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1996.267	49.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2462.933	50.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4925.400	52.58	N/A	50.78	74.00	N/A	54.00	Vertical	PASS
5883.280	50.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8735.360	47.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

**802.11g Mode**

Plot for Channel 1



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	32.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1678.933	47.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2443.733	49.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4826.840	50.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5883.280	49.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9376.000	46.69	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	34.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1996.800	49.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2375.467	50.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4746.760	50.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6000.320	48.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8735.360	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

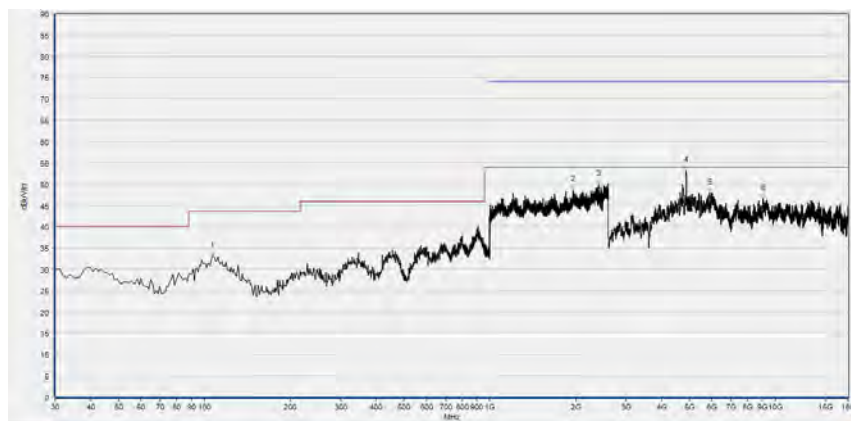


Plot for Channel 6



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	33.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1971.733	48.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2411.733	48.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4876.120	49.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5892.520	48.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9366.760	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	33.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1961.067	48.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2408.533	49.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4879.200	53.19	N/A	44.70	74.00	N/A	54.00	Vertical	PASS
5889.440	47.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9046.440	46.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

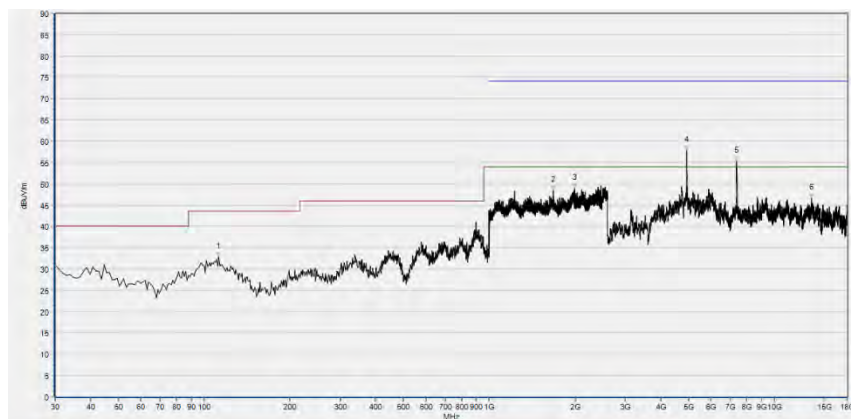


Plot for Channel 11



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
107.600	32.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1996.267	49.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2449.600	49.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4919.240	53.06	N/A	43.72	74.00	N/A	54.00	Horizontal	PASS
5889.440	49.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13577.120	47.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

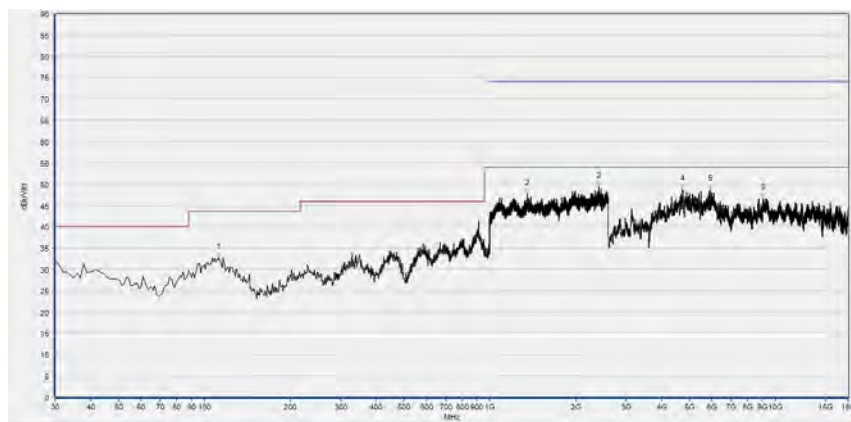


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
112.450	32.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1680.000	48.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1992.533	48.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4922.320	57.83	N/A	49.03	74.00	N/A	54.00	Vertical	PASS
7380.160	55.27	N/A	40.42	74.00	N/A	54.00	Vertical	PASS
13472.400	46.54	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
112.450	32.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1349.867	47.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2406.933	49.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4740.600	48.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5901.760	48.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9080.320	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

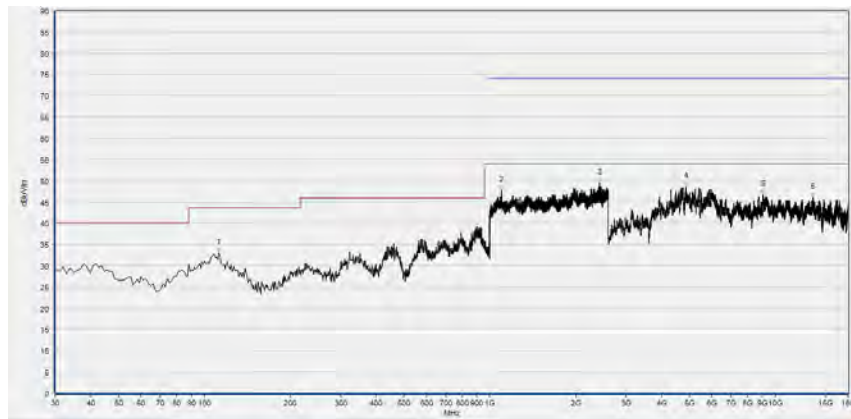


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	33.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1926.933	48.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2388.800	49.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4746.760	49.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5895.600	48.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8735.360	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

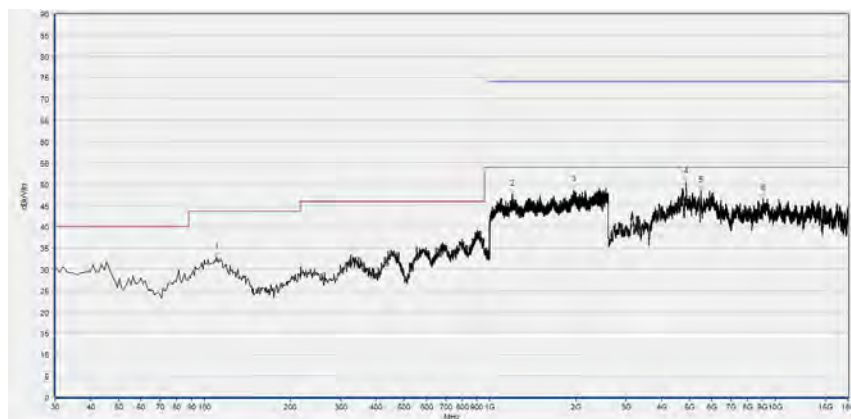


Plot for Channel 6



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	33.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1098.133	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2418.133	49.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4879.200	48.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9046.440	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13577.120	46.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

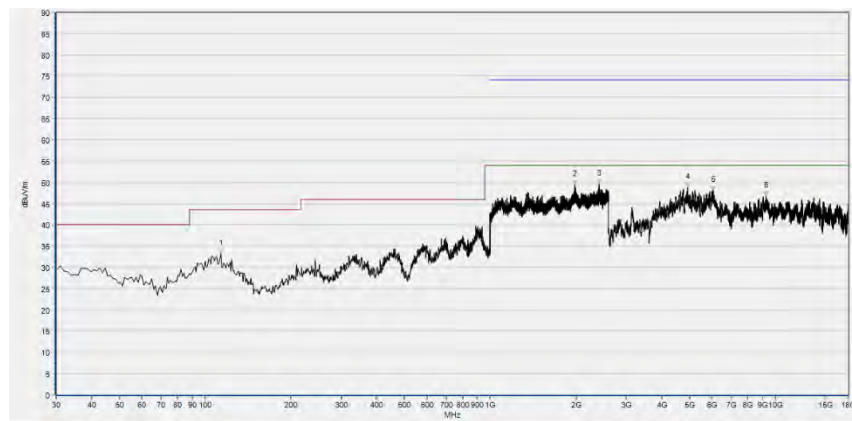


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1198.400	47.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1963.733	48.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4873.040	50.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5479.800	48.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9089.560	46.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

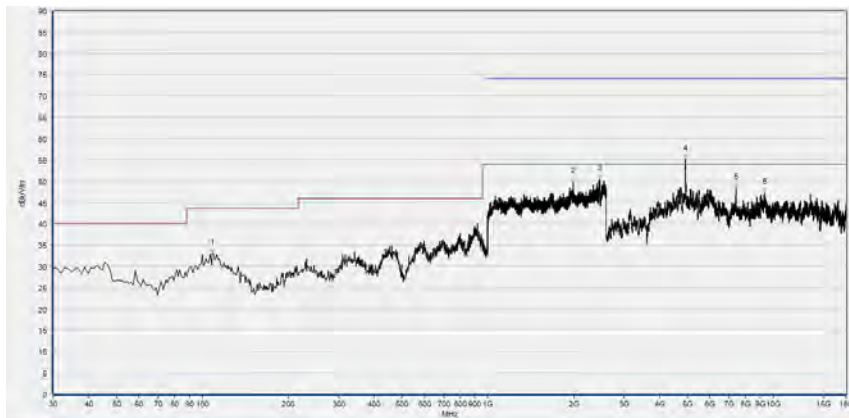


Plot for Channel 11



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
113.420	33.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1984.533	49.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2406.933	49.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4925.400	48.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6040.360	48.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9280.520	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

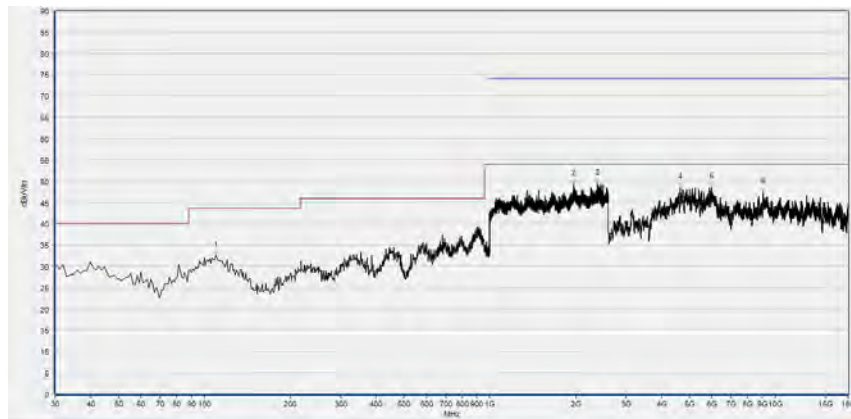


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	33.02	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1995.200	49.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2460.267	50.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4928.480	55.09	N/A	43.64	74.00	N/A	54.00	Vertical	PASS
7392.480	48.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9348.280	47.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

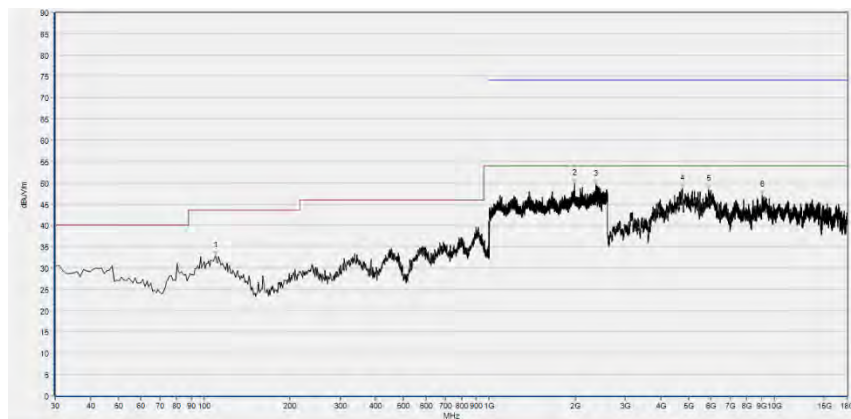
**802.11n (HT40) Mode**

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
109.540	32.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1969.600	49.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2380.800	49.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4654.360	48.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5988.000	48.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9083.400	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
109.540	32.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1992.000	49.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2368.533	49.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4743.680	48.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5895.600	48.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9074.160	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

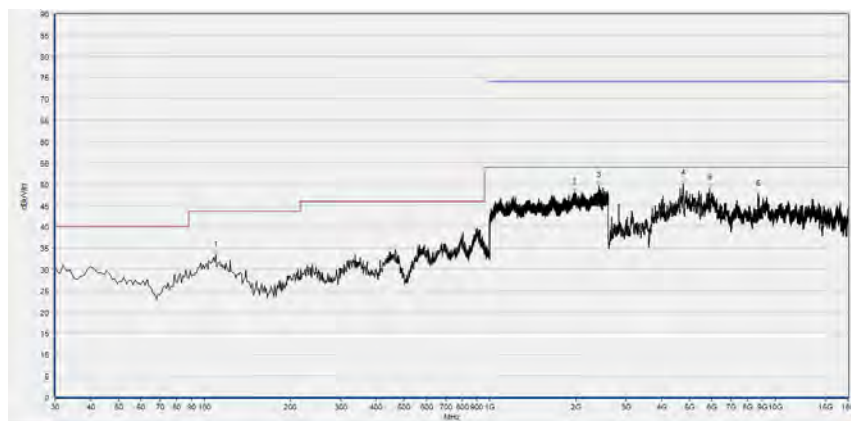
(Antenna Vertical, 30MHz to 18GHz)

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	32.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1349.867	48.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2452.267	49.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4743.680	48.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6098.880	48.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9092.640	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	33.34	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1982.933	48.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2415.467	49.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4752.920	50.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5892.520	48.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8732.280	47.63	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
103.720	33.38	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1216.000	47.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2446.400	49.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5479.800	48.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9049.520	46.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13487.800	46.20	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	33.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1361.067	47.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1982.933	48.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4885.360	48.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5994.160	48.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9080.320	47.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT