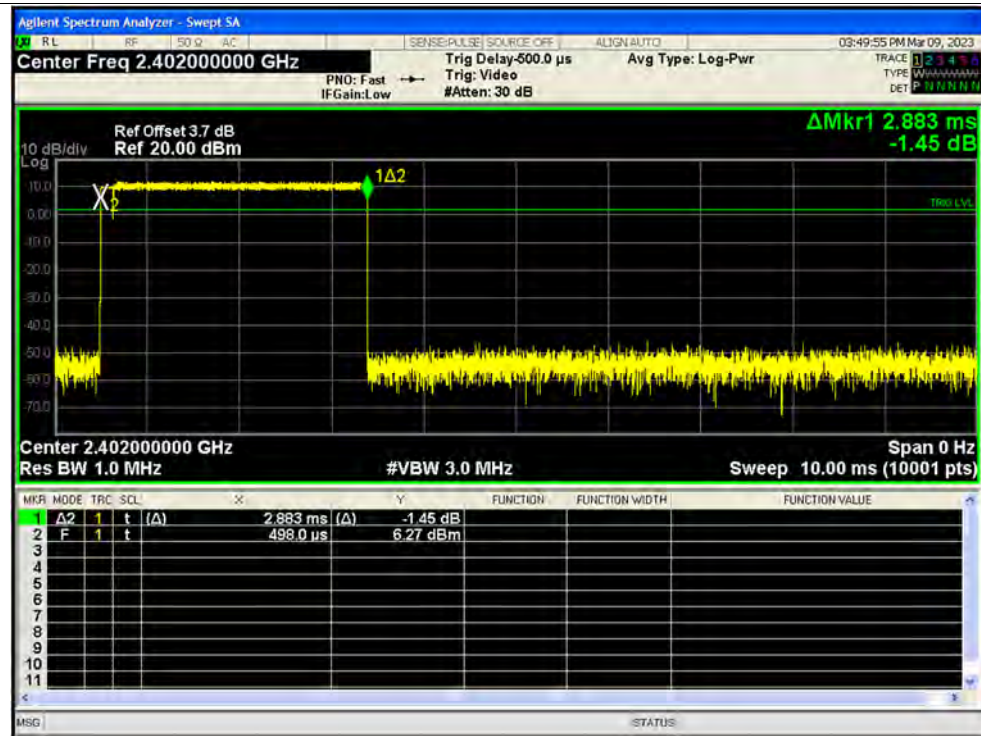
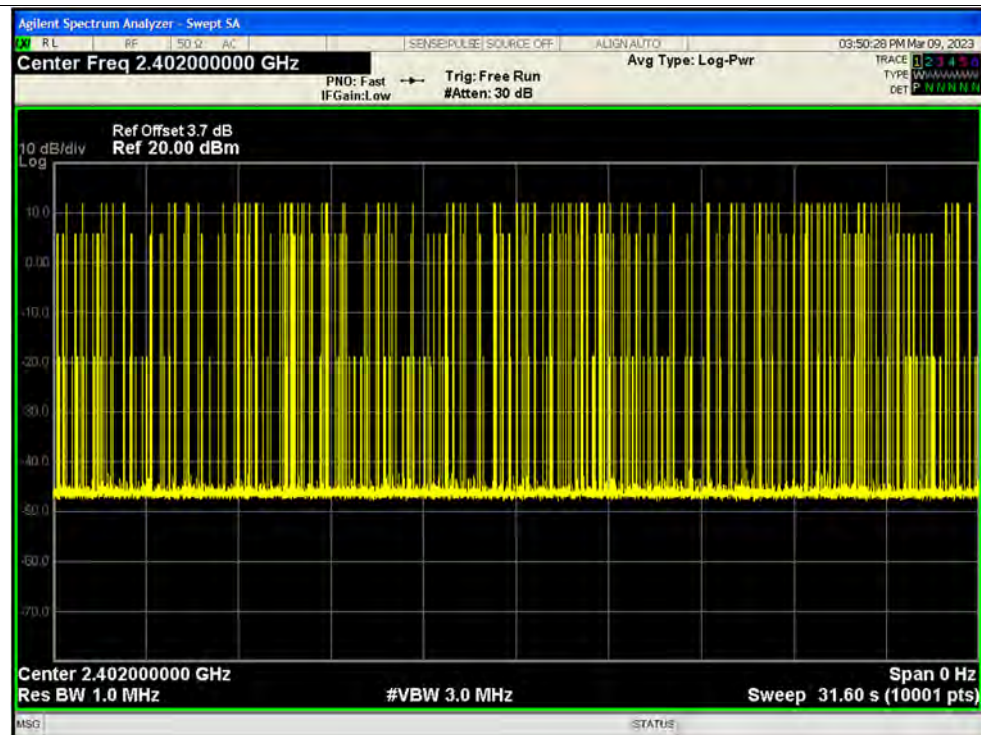


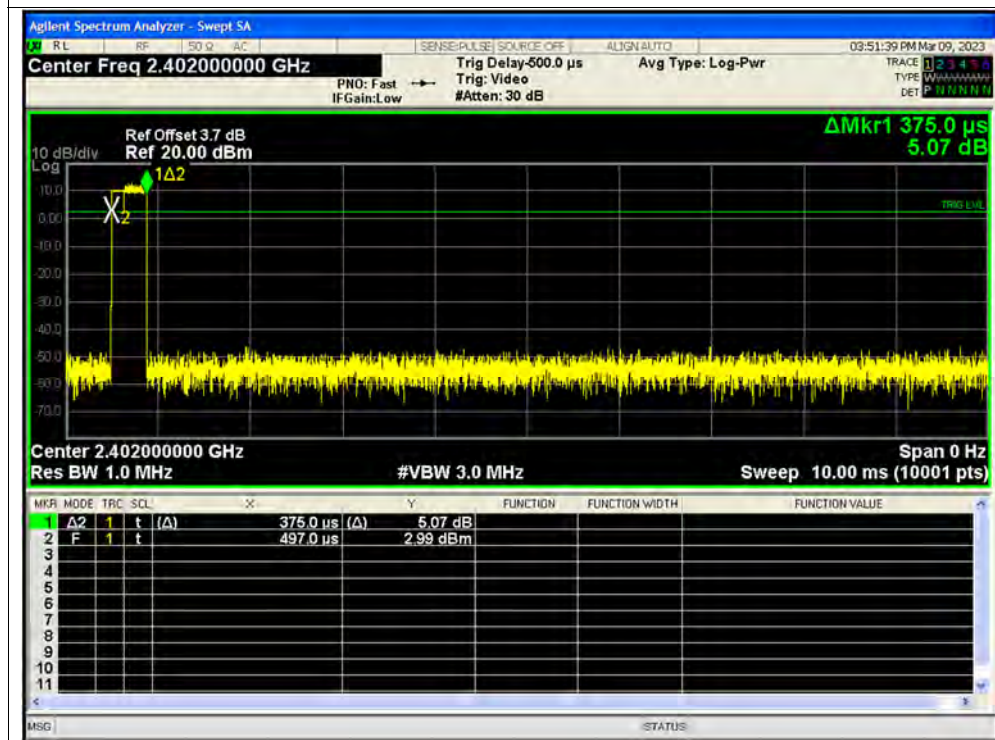
Dwell NVNT 2-DH5 2402MHz Ant3 One Burst



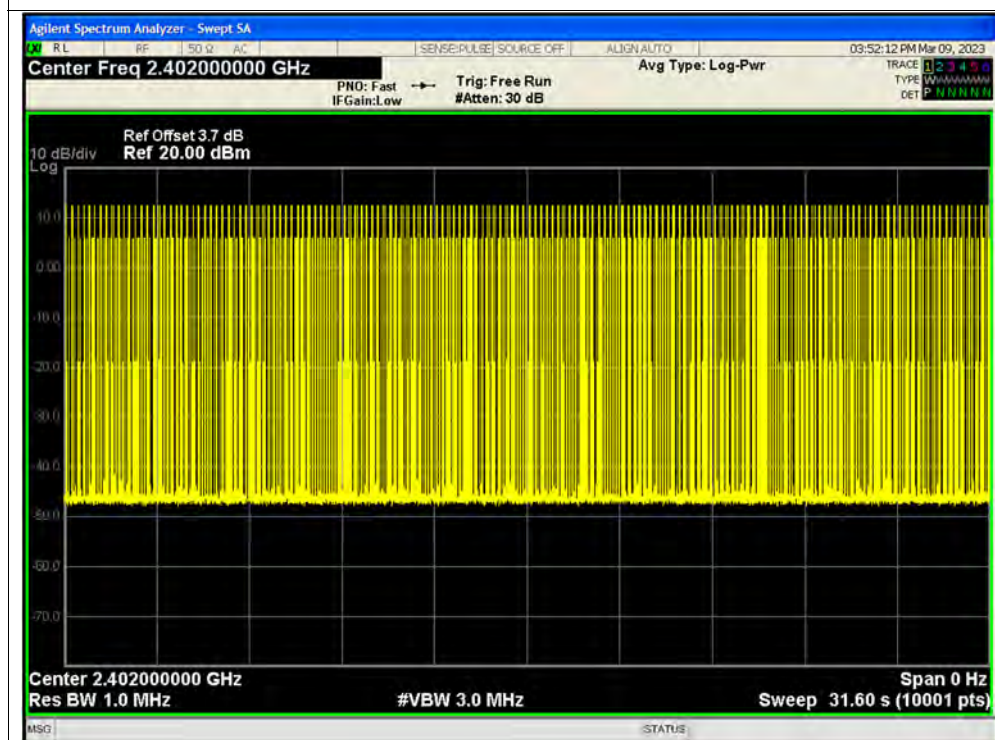
Dwell NVNT 2-DH5 2402MHz Ant3 Accumulated



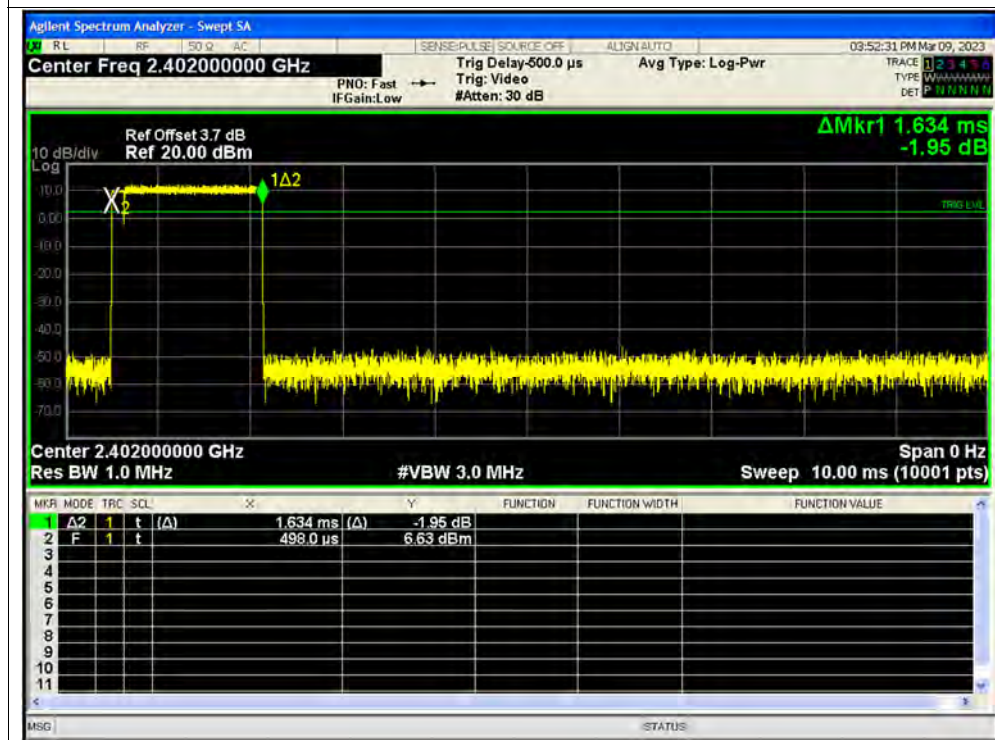
Dwell NVNT 3-DH1 2402MHz Ant3 One Burst



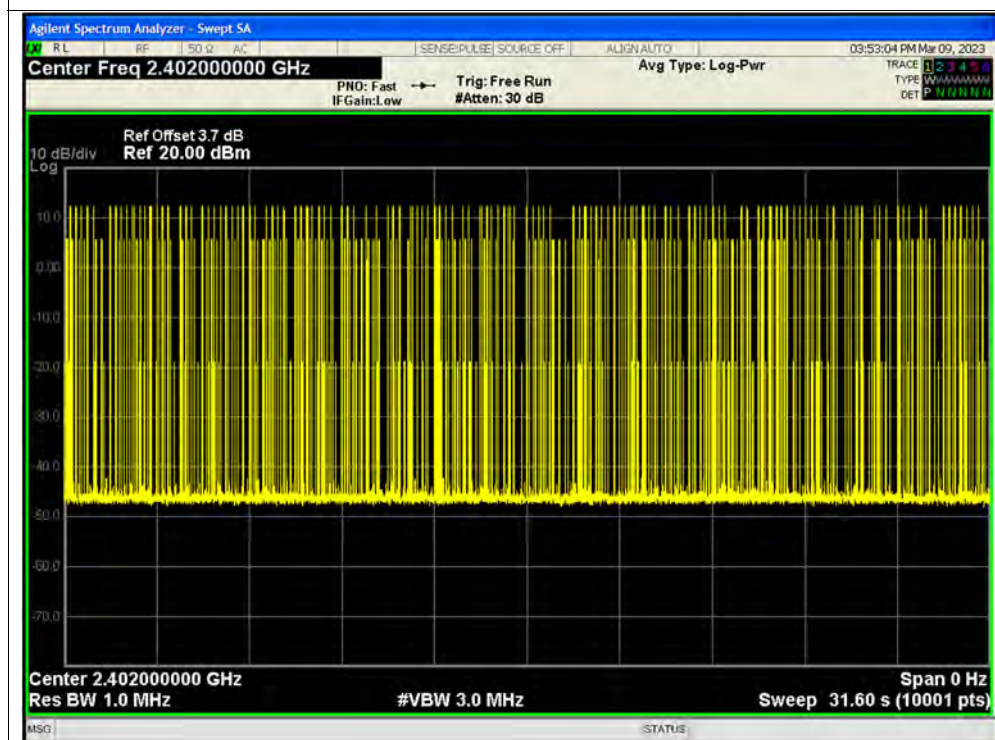
Dwell NVNT 3-DH1 2402MHz Ant3 Accumulated



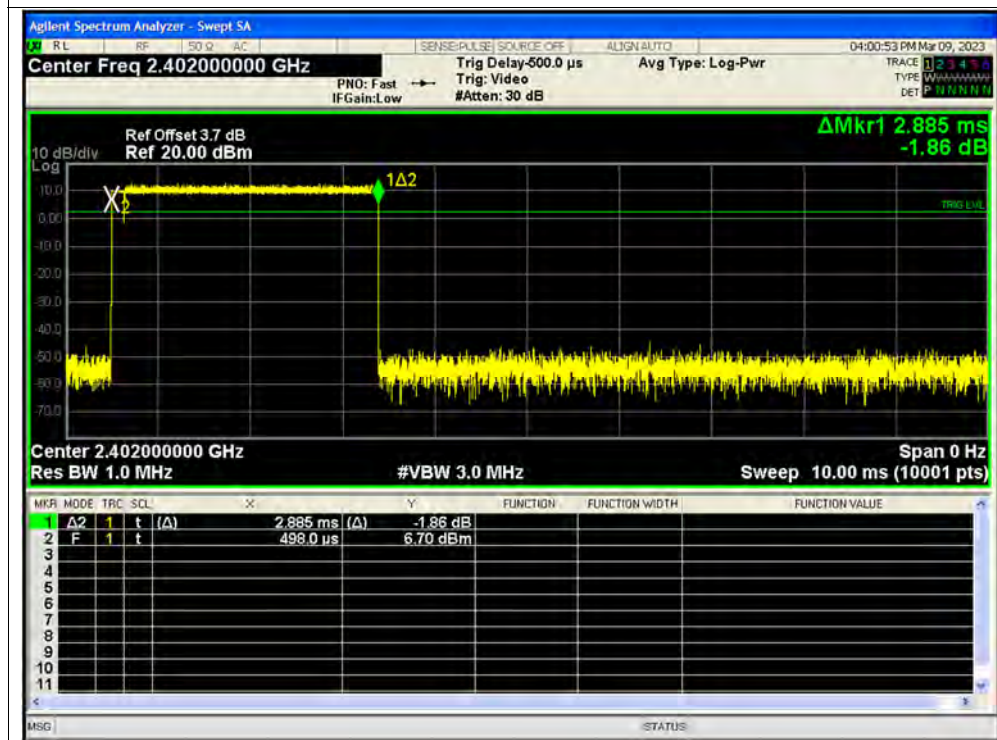
Dwell NVNT 3-DH3 2402MHz Ant3 One Burst



Dwell NVNT 3-DH3 2402MHz Ant3 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant3 One Burst



Dwell NVNT 3-DH5 2402MHz Ant3 Accumulated



**A.8. Conducted Spurious Emissions**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	-59.82	-20	Pass
NVNT	1-DH5	2441	Ant0	-59.52	-20	Pass
NVNT	1-DH5	2480	Ant0	-58.52	-20	Pass
NVNT	2-DH5	2402	Ant0	-55.93	-20	Pass
NVNT	2-DH5	2441	Ant0	-56.8	-20	Pass
NVNT	2-DH5	2480	Ant0	-55.8	-20	Pass
NVNT	3-DH5	2402	Ant0	-56.41	-20	Pass
NVNT	3-DH5	2441	Ant0	-57.41	-20	Pass
NVNT	3-DH5	2480	Ant0	-56.15	-20	Pass
NVNT	1-DH5	2402	Ant3	-60.38	-20	Pass
NVNT	1-DH5	2441	Ant3	-60.12	-20	Pass
NVNT	1-DH5	2480	Ant3	-59.06	-20	Pass
NVNT	2-DH5	2402	Ant3	-56.67	-20	Pass
NVNT	2-DH5	2441	Ant3	-56.68	-20	Pass
NVNT	2-DH5	2480	Ant3	-56.46	-20	Pass
NVNT	3-DH5	2402	Ant3	-58.07	-20	Pass
NVNT	3-DH5	2441	Ant3	-55.81	-20	Pass
NVNT	3-DH5	2480	Ant3	-56.8	-20	Pass

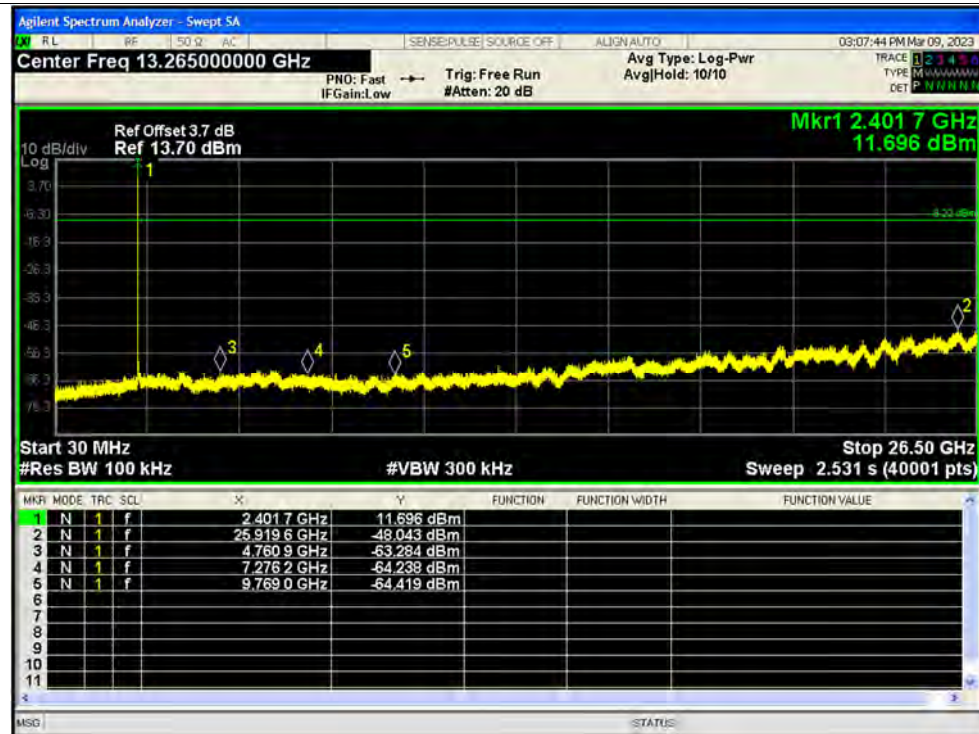


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Ref



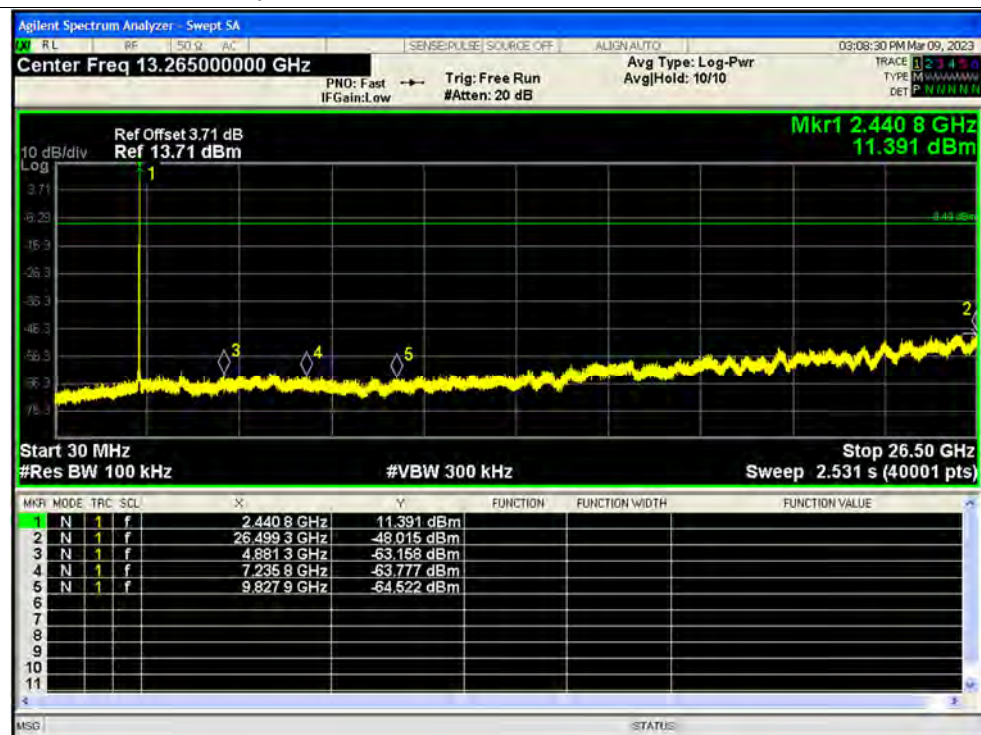
Tx. Spurious NVNT 1-DH5 2402MHz Ant0 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Ref



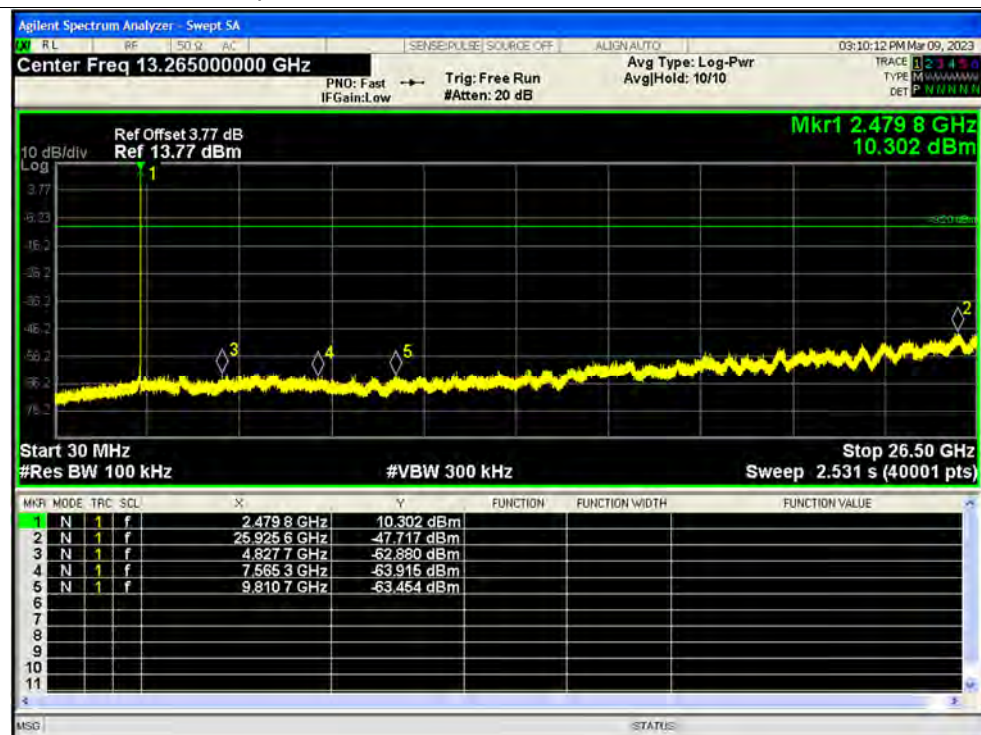
Tx. Spurious NVNT 1-DH5 2441MHz Ant0 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Ref



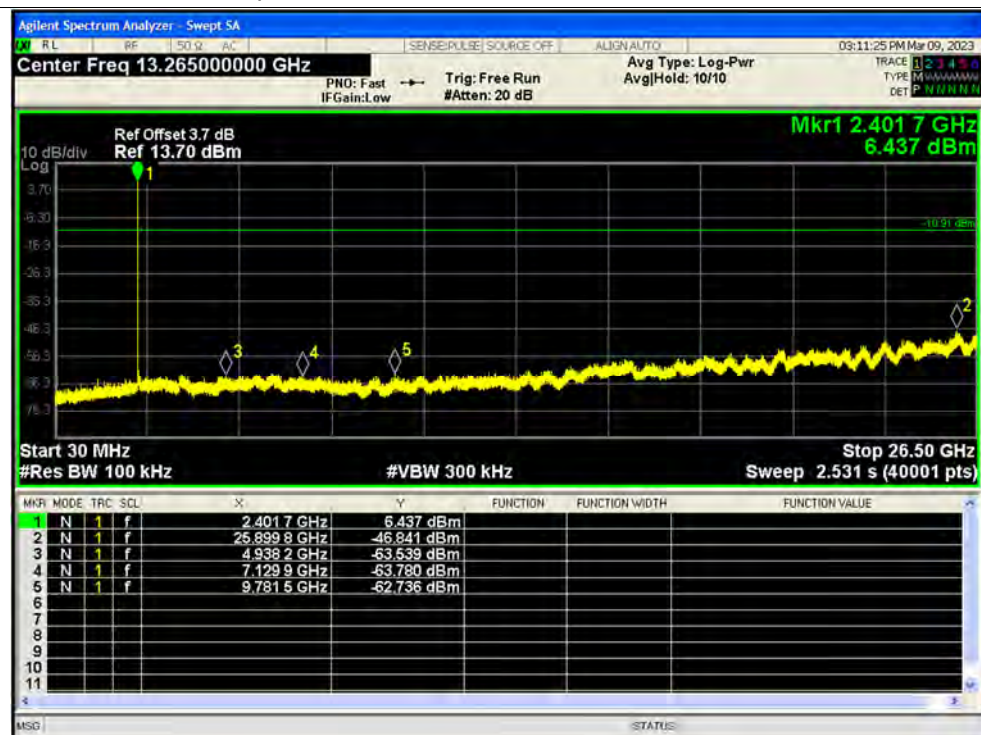
Tx. Spurious NVNT 1-DH5 2480MHz Ant0 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Ref



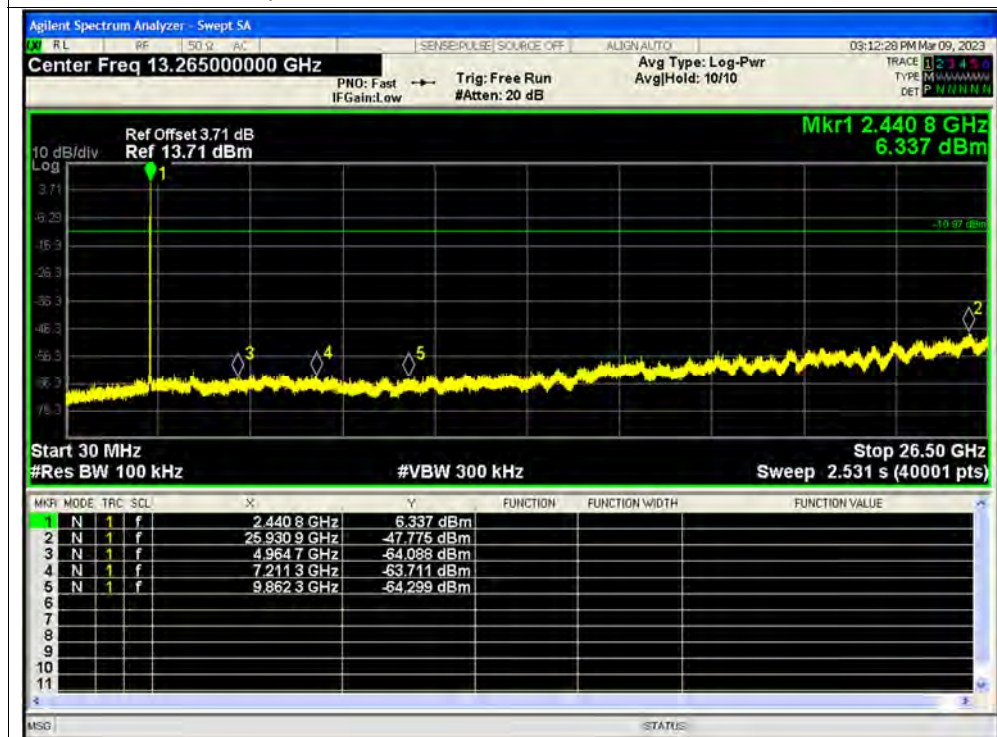
Tx. Spurious NVNT 2-DH5 2402MHz Ant0 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Ref



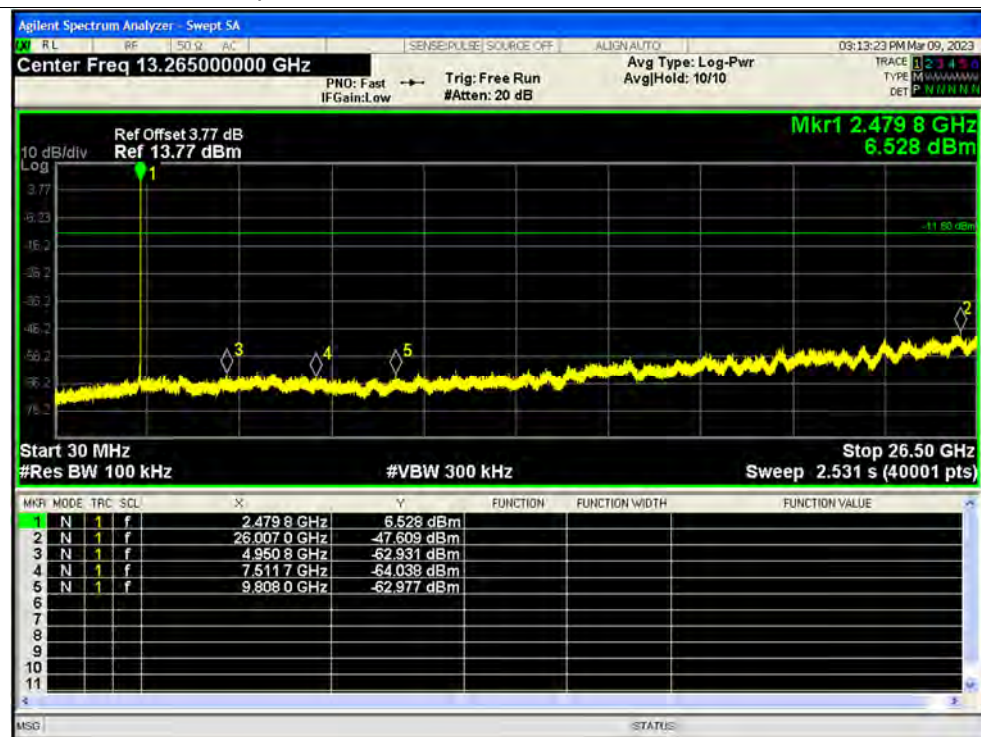
Tx. Spurious NVNT 2-DH5 2441MHz Ant0 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Ref



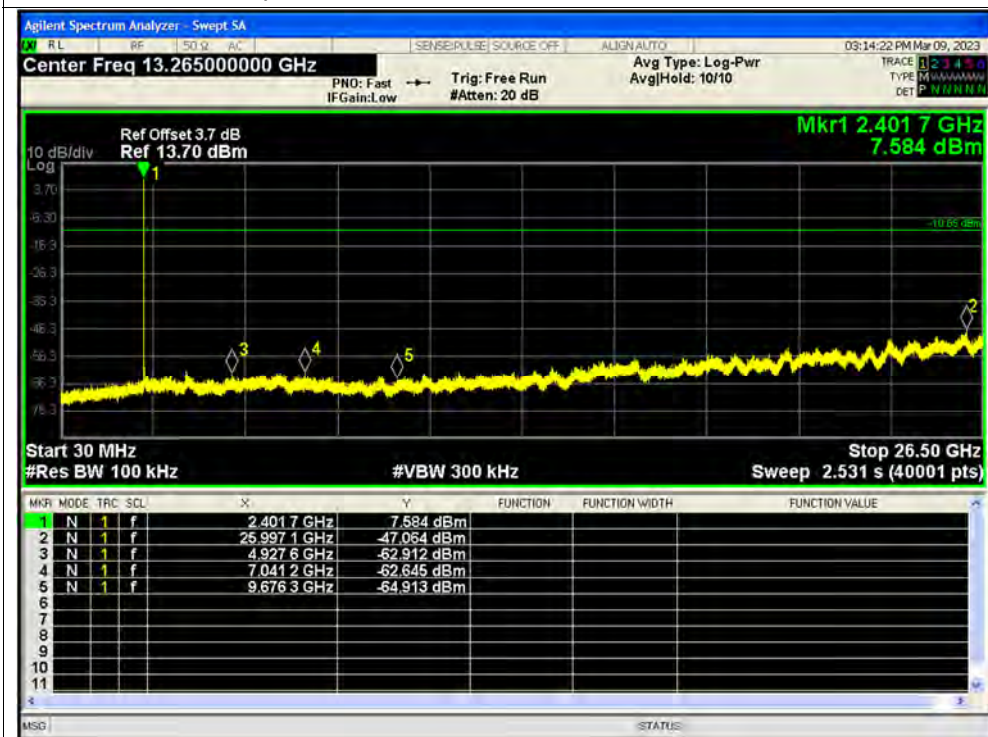
Tx. Spurious NVNT 2-DH5 2480MHz Ant0 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant0 Ref



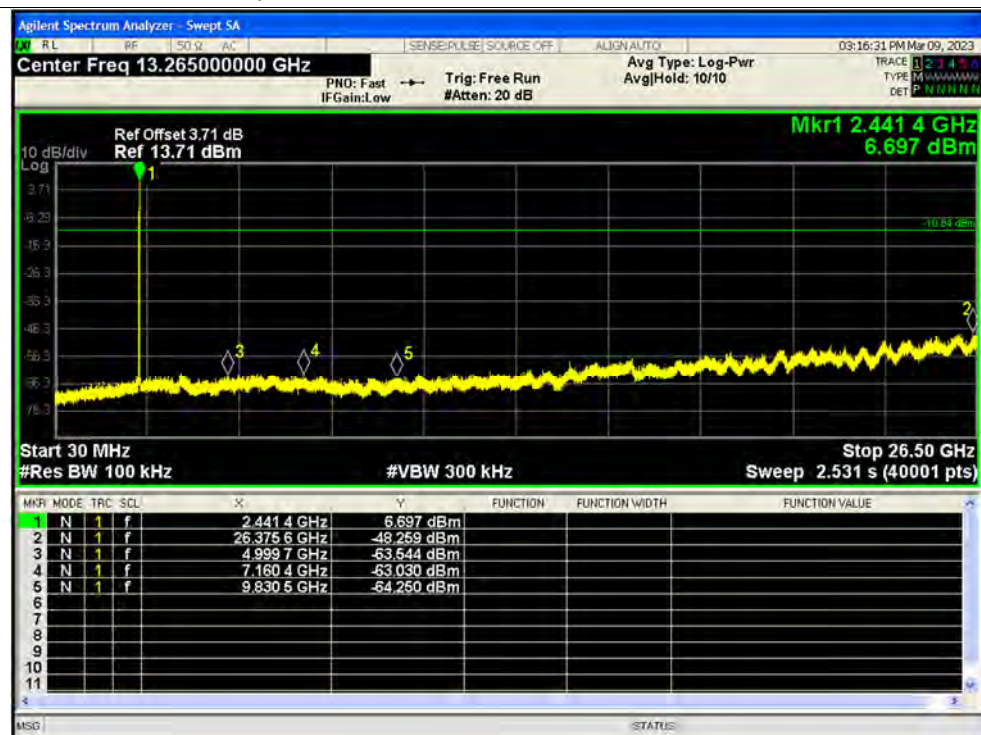
Tx. Spurious NVNT 3-DH5 2402MHz Ant0 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Ref



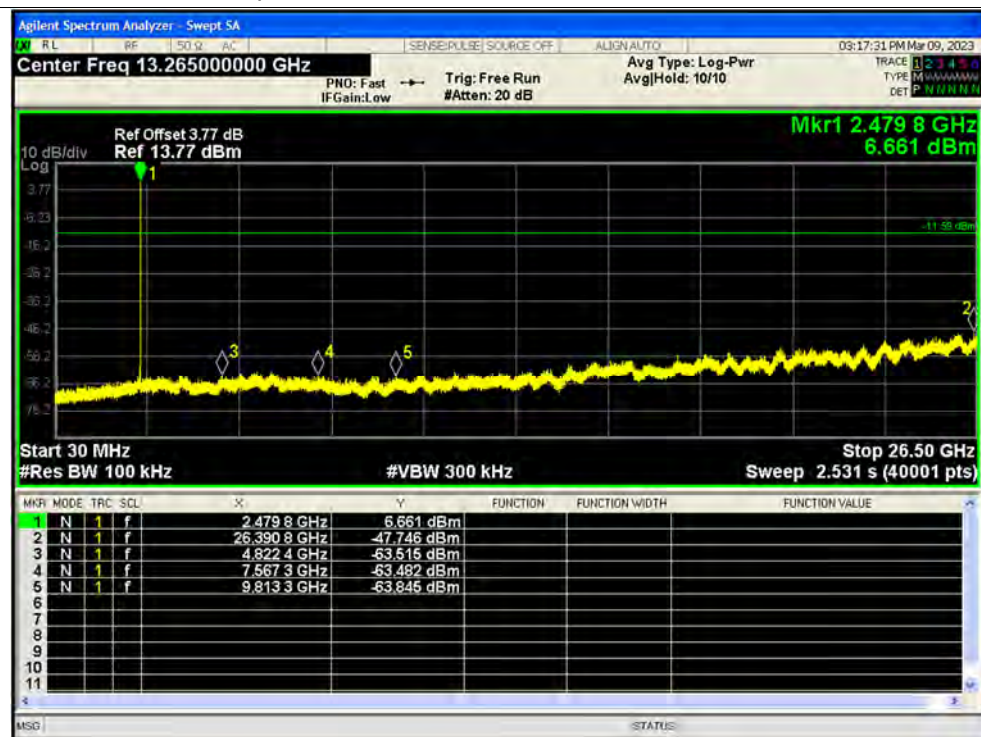
Tx. Spurious NVNT 3-DH5 2441MHz Ant0 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant0 Emission

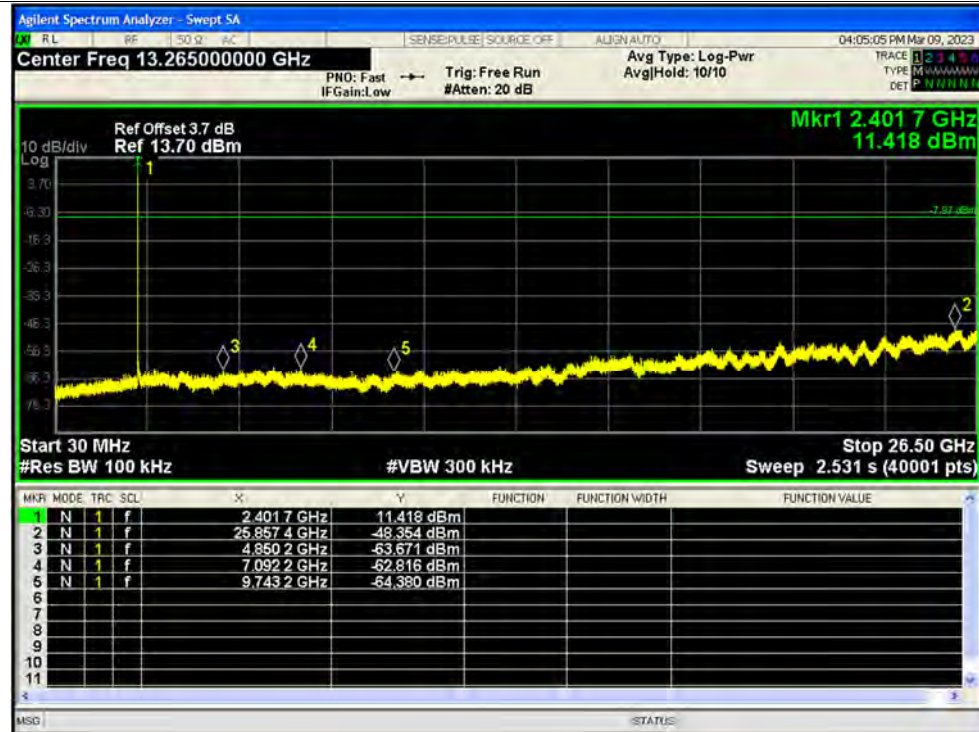


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant3 Ref



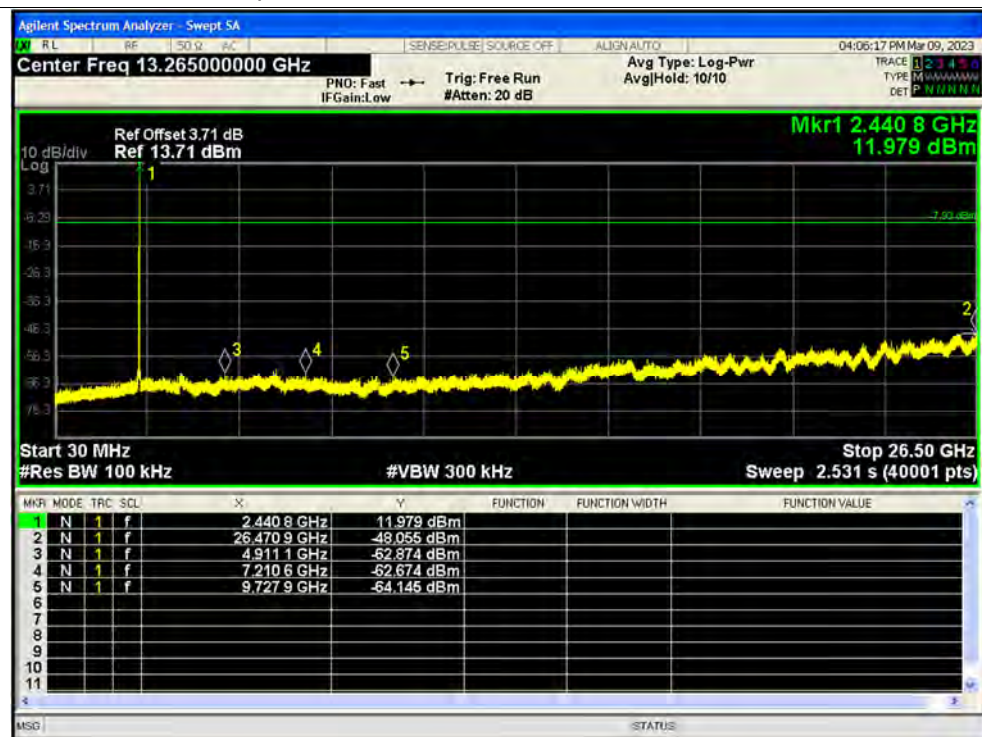
Tx. Spurious NVNT 1-DH5 2402MHz Ant3 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant3 Ref



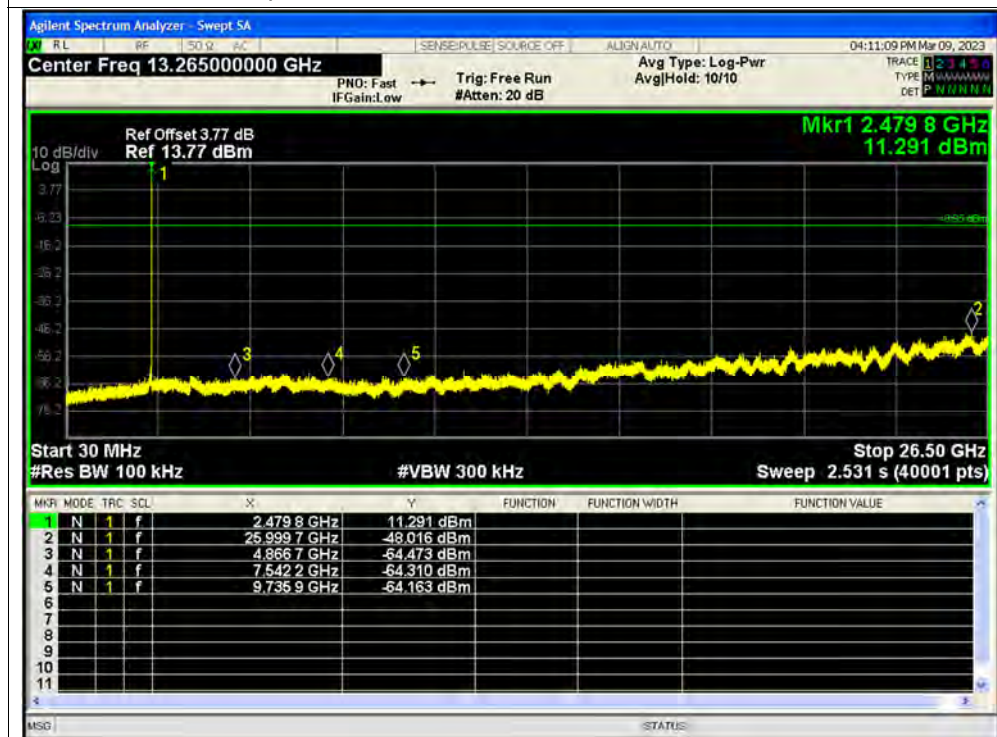
Tx. Spurious NVNT 1-DH5 2441MHz Ant3 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant3 Ref



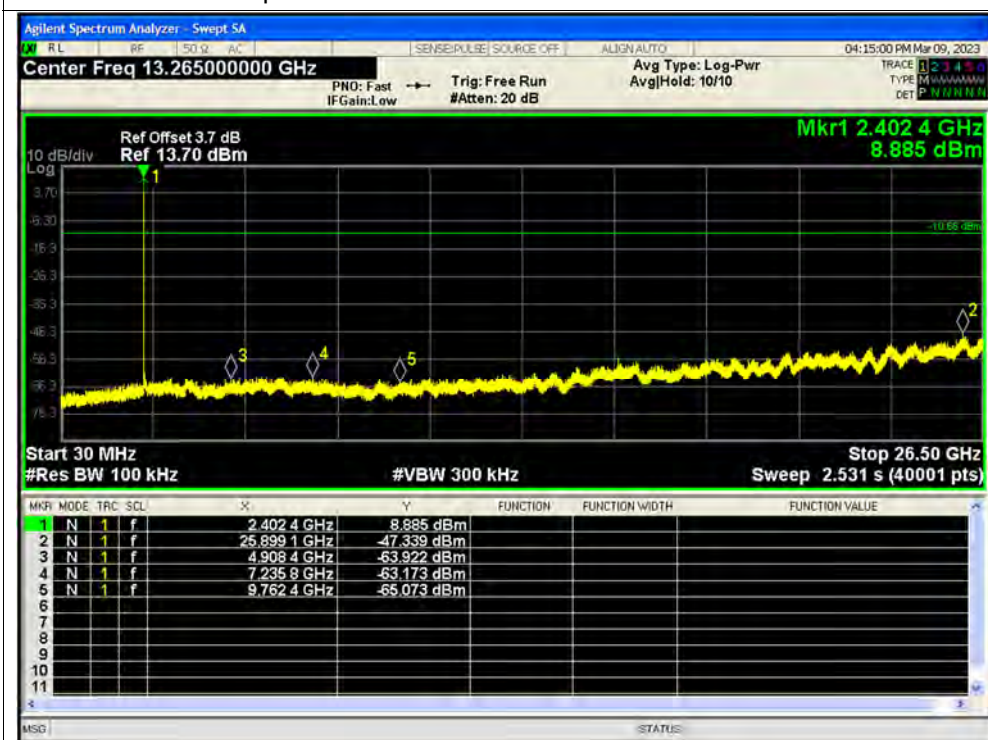
Tx. Spurious NVNT 1-DH5 2480MHz Ant3 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant3 Ref



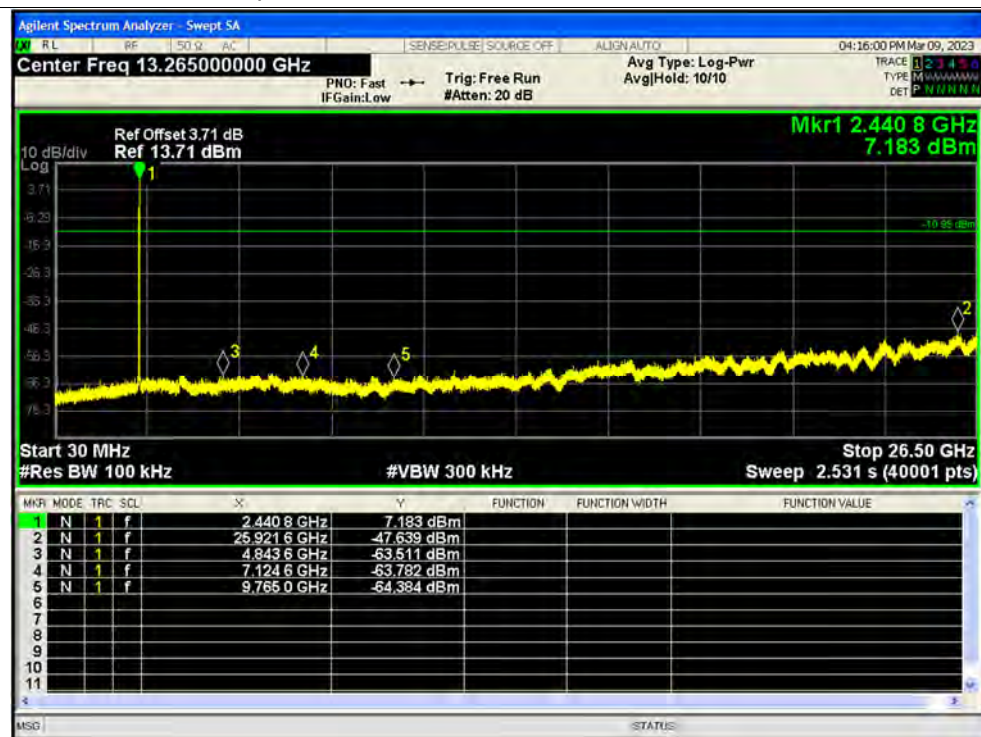
Tx. Spurious NVNT 2-DH5 2402MHz Ant3 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant3 Ref



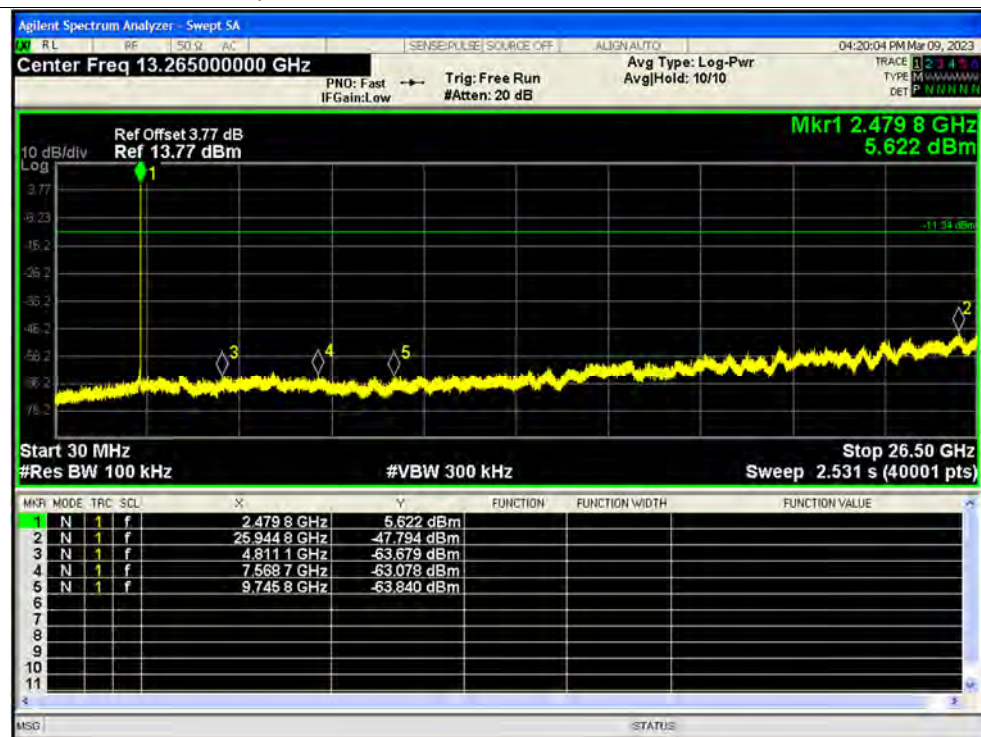
Tx. Spurious NVNT 2-DH5 2441MHz Ant3 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant3 Ref



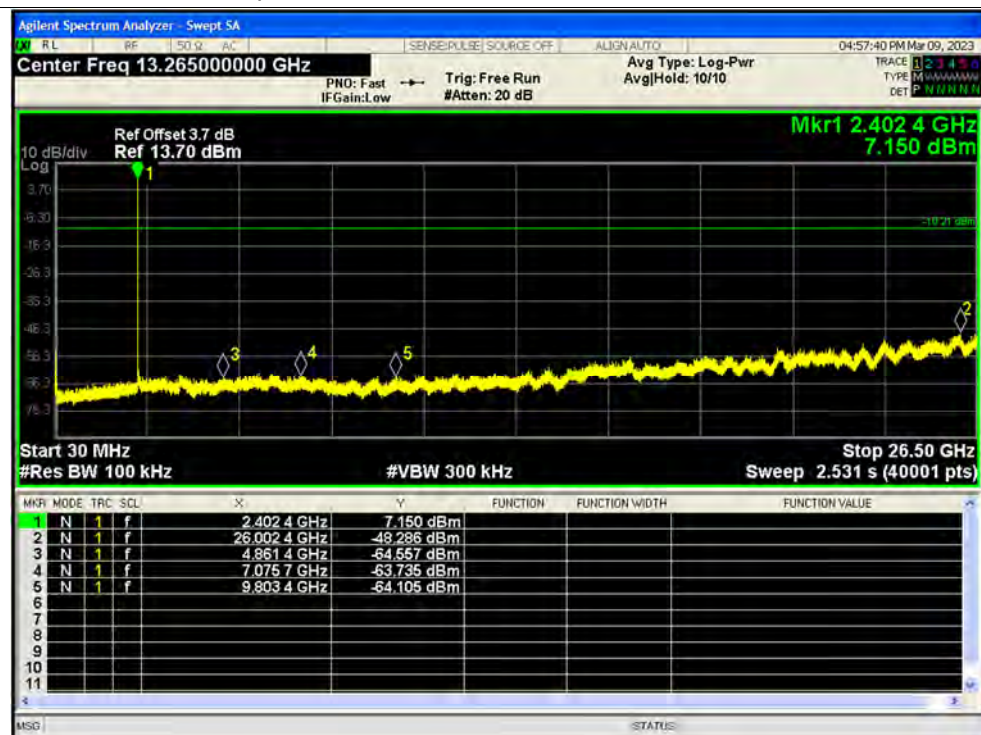
Tx. Spurious NVNT 2-DH5 2480MHz Ant3 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant3 Ref



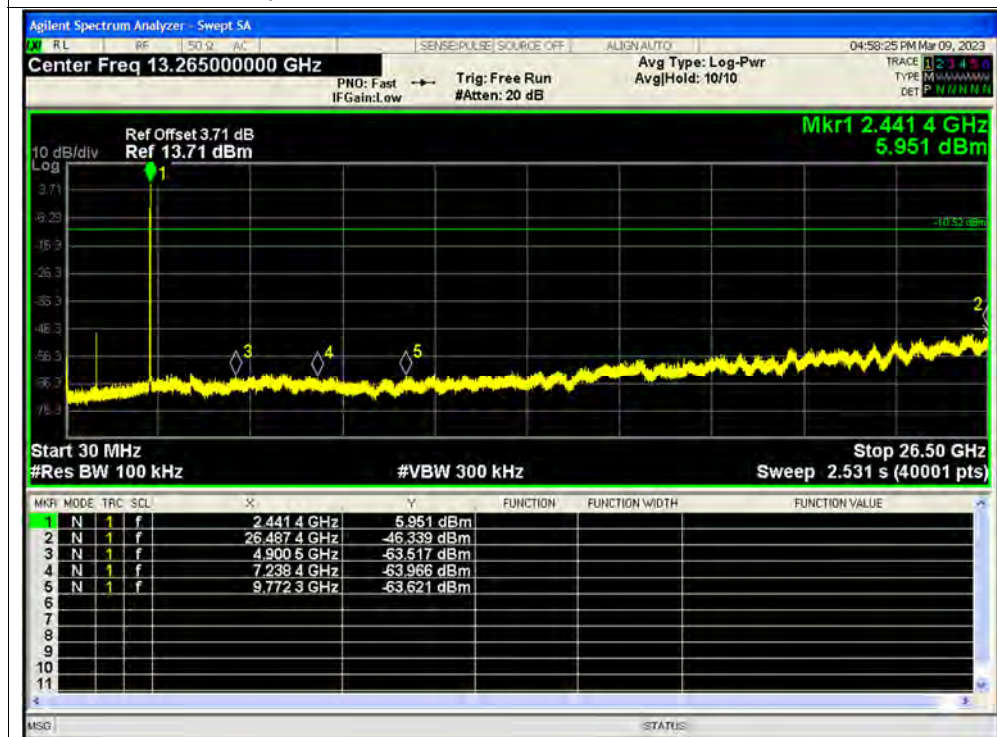
Tx. Spurious NVNT 3-DH5 2402MHz Ant3 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant3 Ref



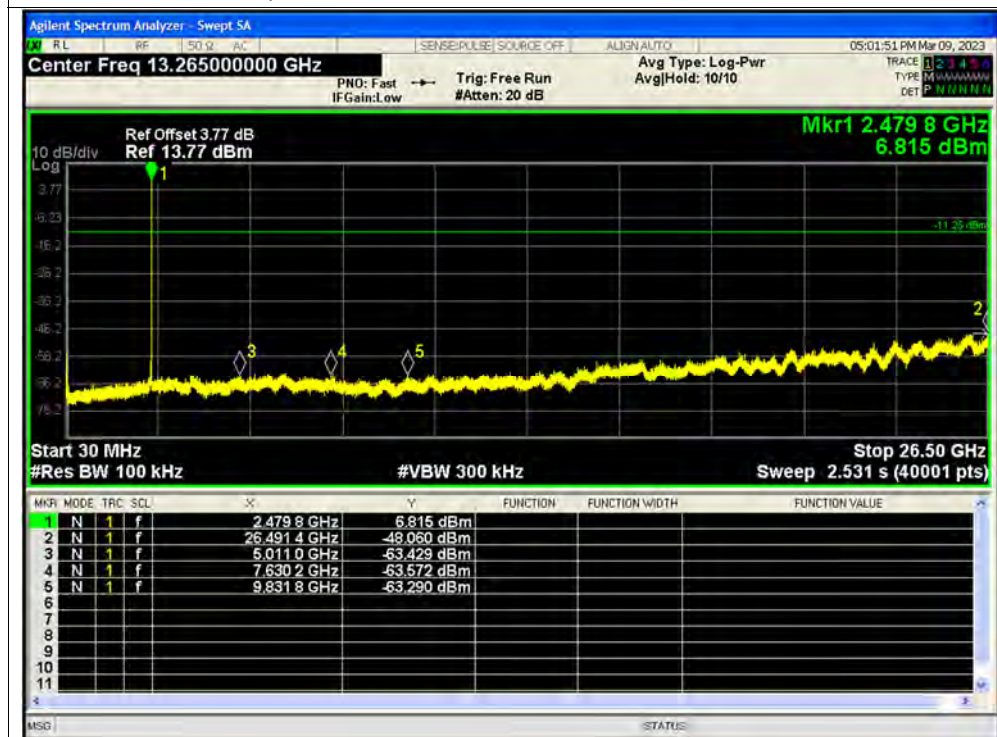
Tx. Spurious NVNT 3-DH5 2441MHz Ant3 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant3 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant3 Emission

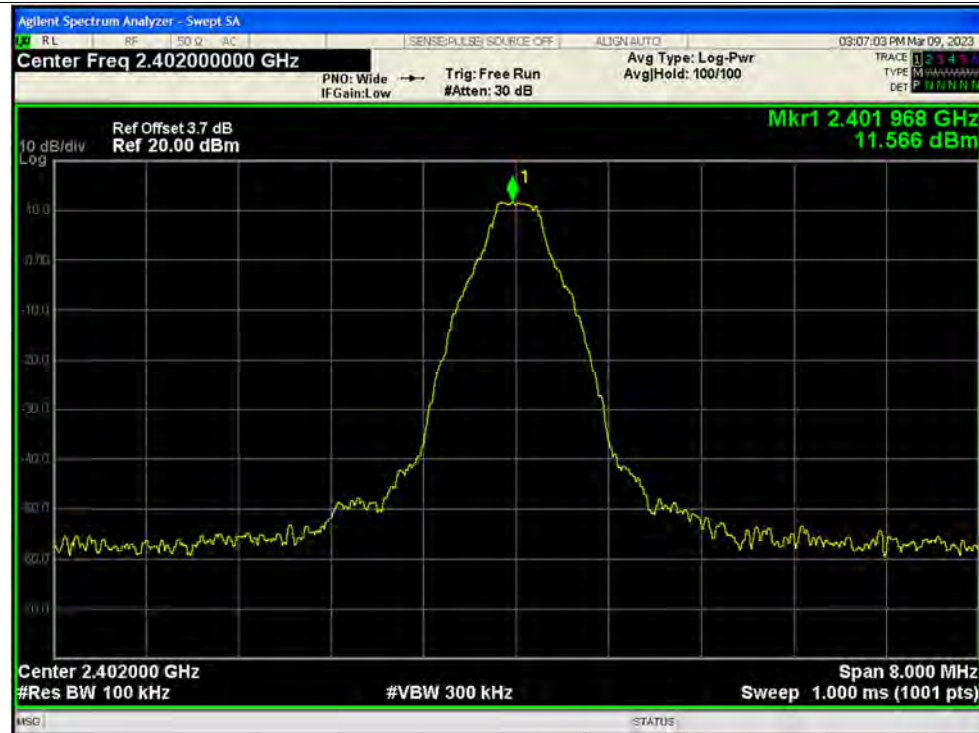


**A.9. Band Edge**

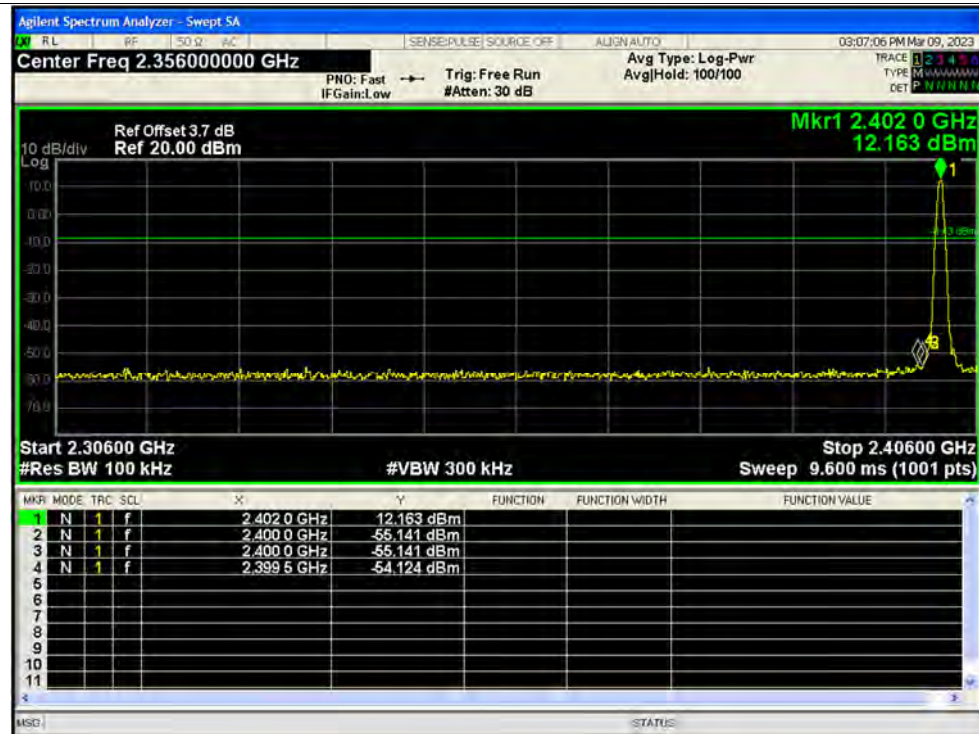
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant0	No-Hopping	-65.69	-20	Pass
NVNT	1-DH5	2480	Ant0	No-Hopping	-65.71	-20	Pass
NVNT	2-DH5	2402	Ant0	No-Hopping	-59.8	-20	Pass
NVNT	2-DH5	2480	Ant0	No-Hopping	-63.95	-20	Pass
NVNT	3-DH5	2402	Ant0	No-Hopping	-60.52	-20	Pass
NVNT	3-DH5	2480	Ant0	No-Hopping	-62.33	-20	Pass
NVNT	1-DH5	2402	Ant0	Hopping	-66.07	-20	Pass
NVNT	1-DH5	2480	Ant0	Hopping	-65.48	-20	Pass
NVNT	2-DH5	2402	Ant0	Hopping	-63.43	-20	Pass
NVNT	2-DH5	2480	Ant0	Hopping	-61.62	-20	Pass
NVNT	3-DH5	2402	Ant0	Hopping	-62.13	-20	Pass
NVNT	3-DH5	2480	Ant0	Hopping	-61.23	-20	Pass
NVNT	1-DH5	2402	Ant3	No-Hopping	-66.22	-20	Pass
NVNT	1-DH5	2480	Ant3	No-Hopping	-64.76	-20	Pass
NVNT	2-DH5	2402	Ant3	No-Hopping	-61.93	-20	Pass
NVNT	2-DH5	2480	Ant3	No-Hopping	-64.36	-20	Pass
NVNT	3-DH5	2402	Ant3	No-Hopping	-61.37	-20	Pass
NVNT	3-DH5	2480	Ant3	No-Hopping	-62.64	-20	Pass
NVNT	1-DH5	2402	Ant3	Hopping	-65.53	-20	Pass
NVNT	1-DH5	2480	Ant3	Hopping	-64.97	-20	Pass
NVNT	2-DH5	2402	Ant3	Hopping	-63.54	-20	Pass
NVNT	2-DH5	2480	Ant3	Hopping	-61.35	-20	Pass
NVNT	3-DH5	2402	Ant3	Hopping	-63.31	-20	Pass
NVNT	3-DH5	2480	Ant3	Hopping	-62.22	-20	Pass

Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Ref



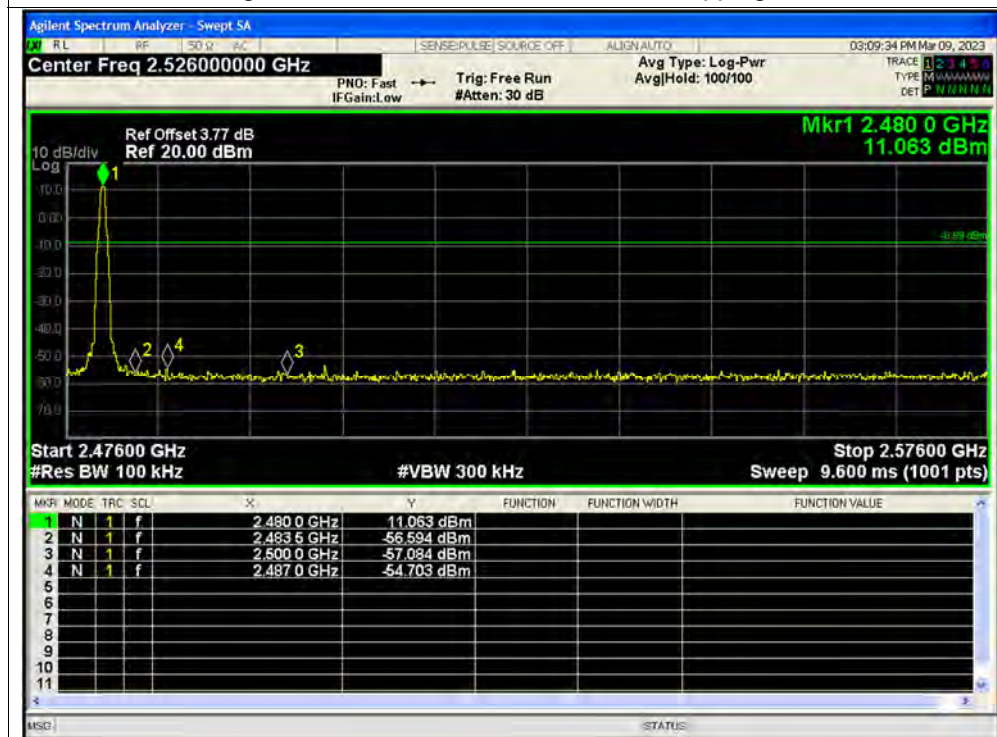
Band Edge NVNT 1-DH5 2402MHz Ant0 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Ref



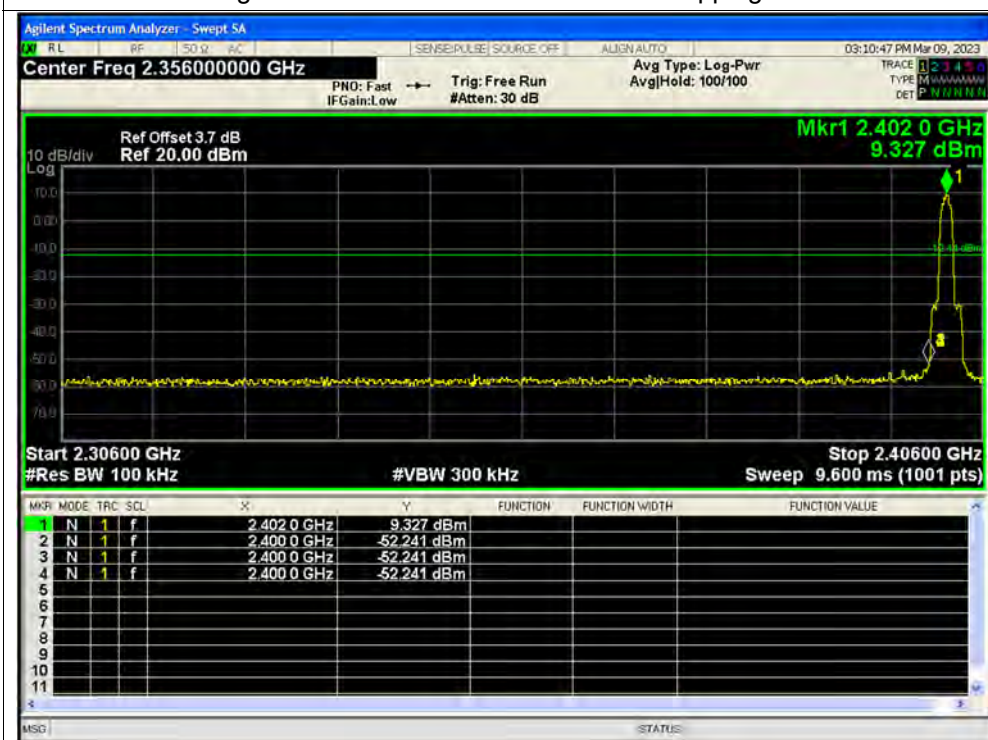
Band Edge NVNT 1-DH5 2480MHz Ant0 No-Hopping Emission



Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Ref



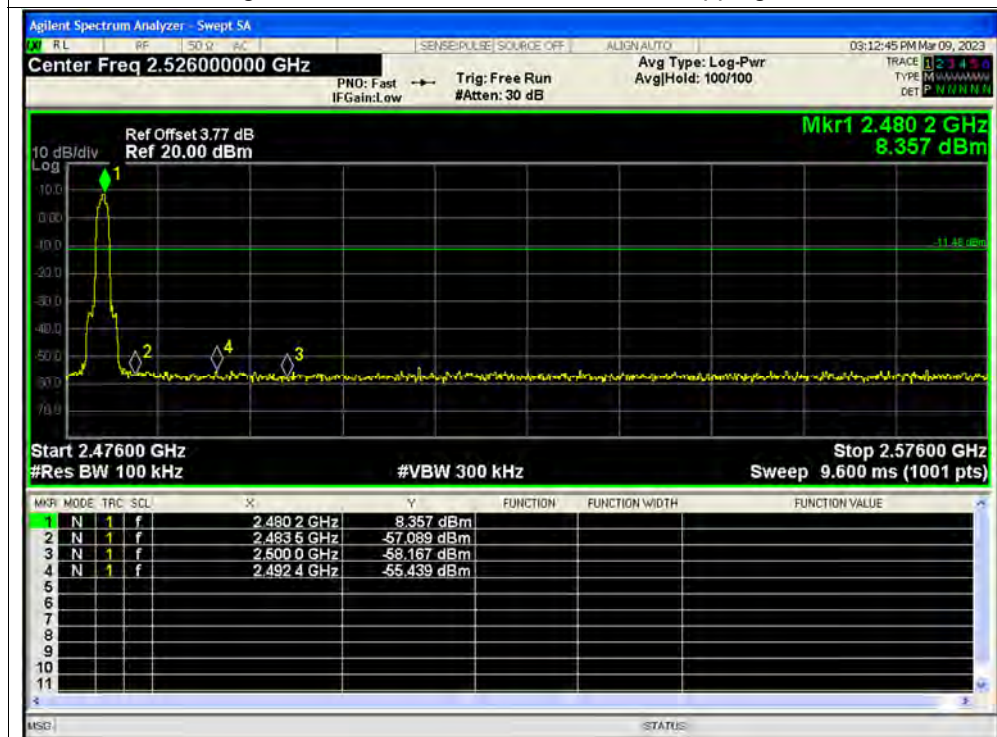
Band Edge NVNT 2-DH5 2402MHz Ant0 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Ref



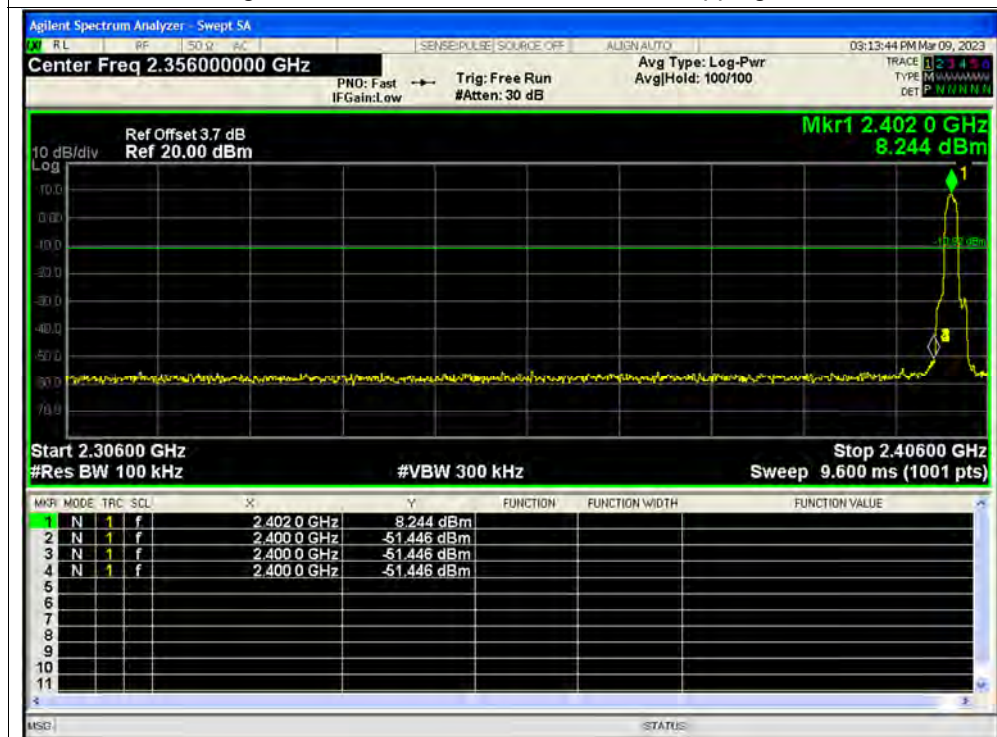
Band Edge NVNT 2-DH5 2480MHz Ant0 No-Hopping Emission



Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Ref



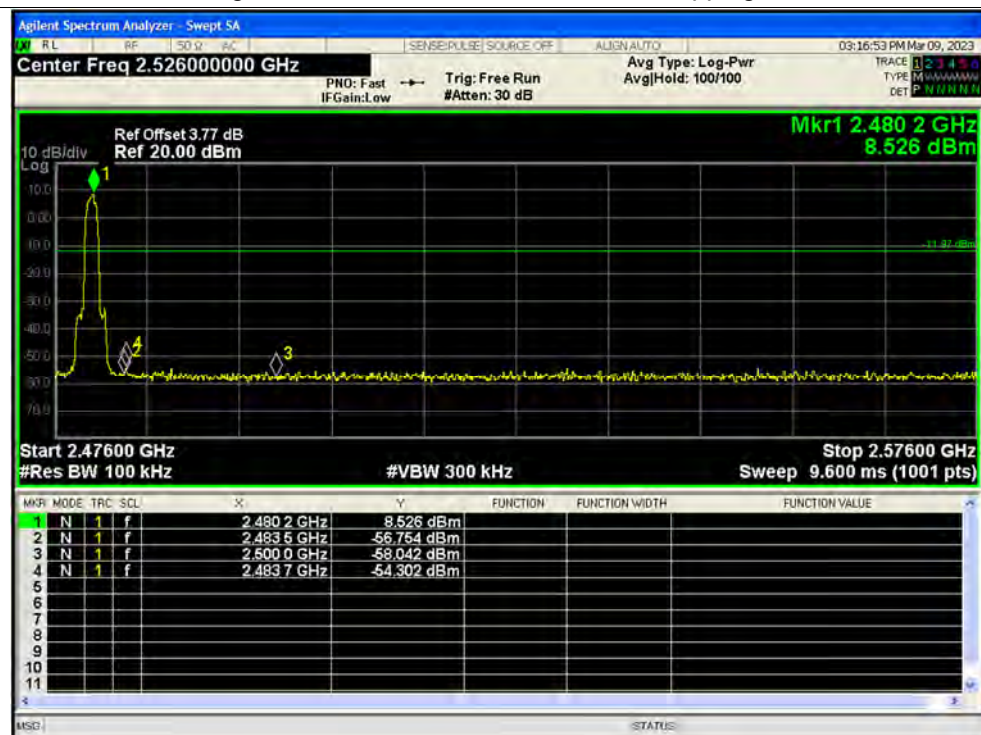
Band Edge NVNT 3-DH5 2402MHz Ant0 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant0 No-Hopping Emission

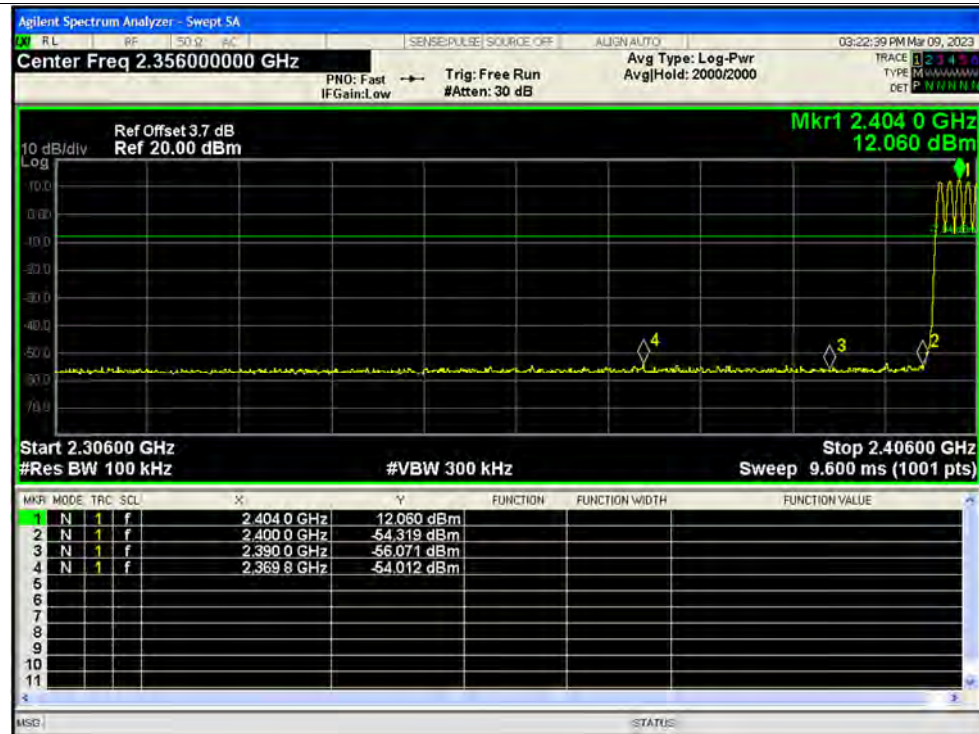


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Ref



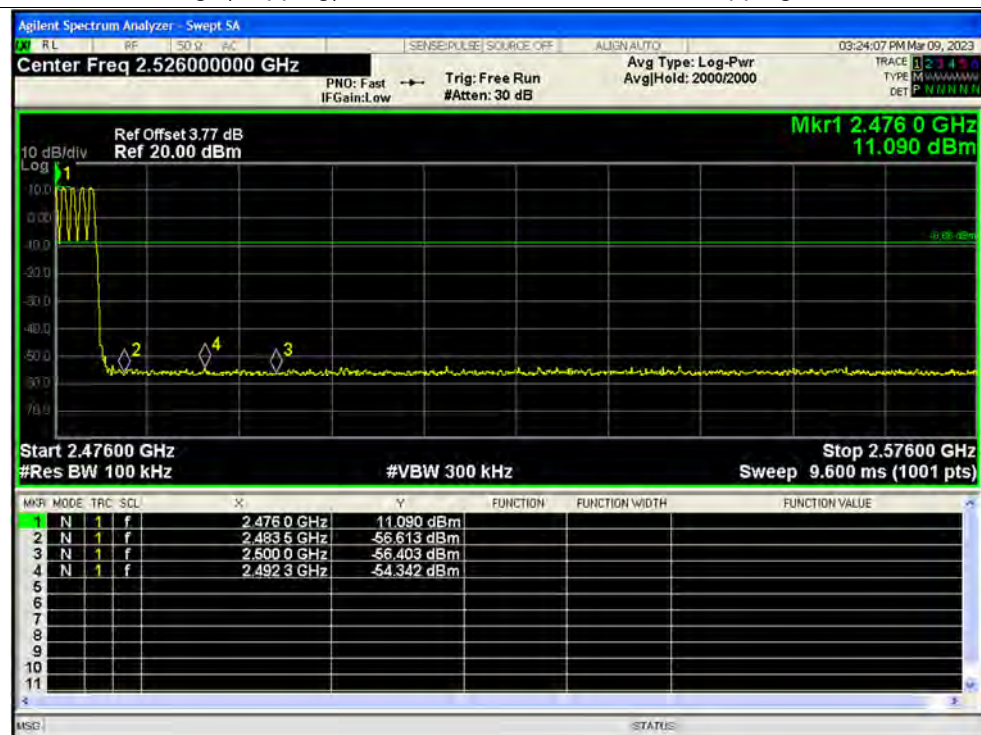
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant0 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant0 Hopping Emission

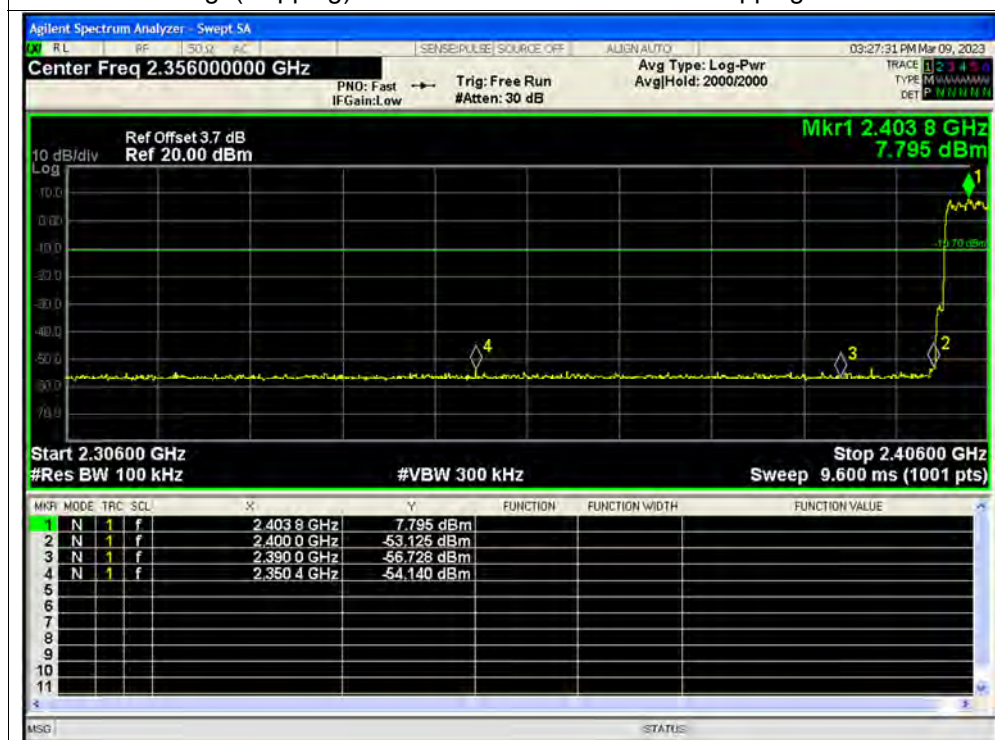




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Ref



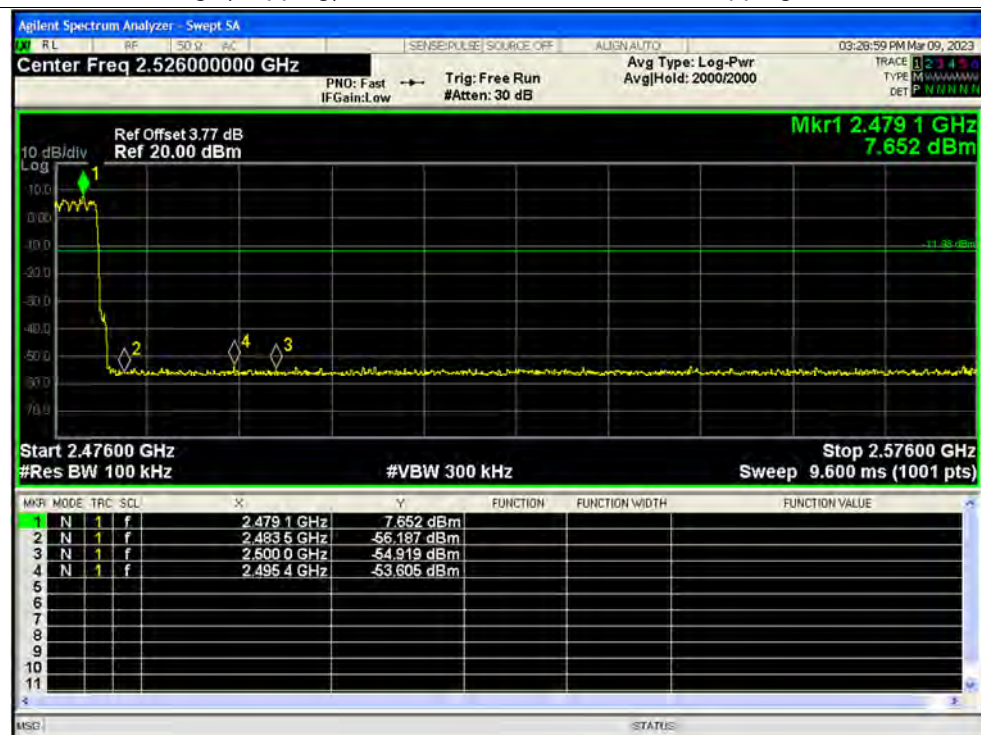
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant0 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Ref



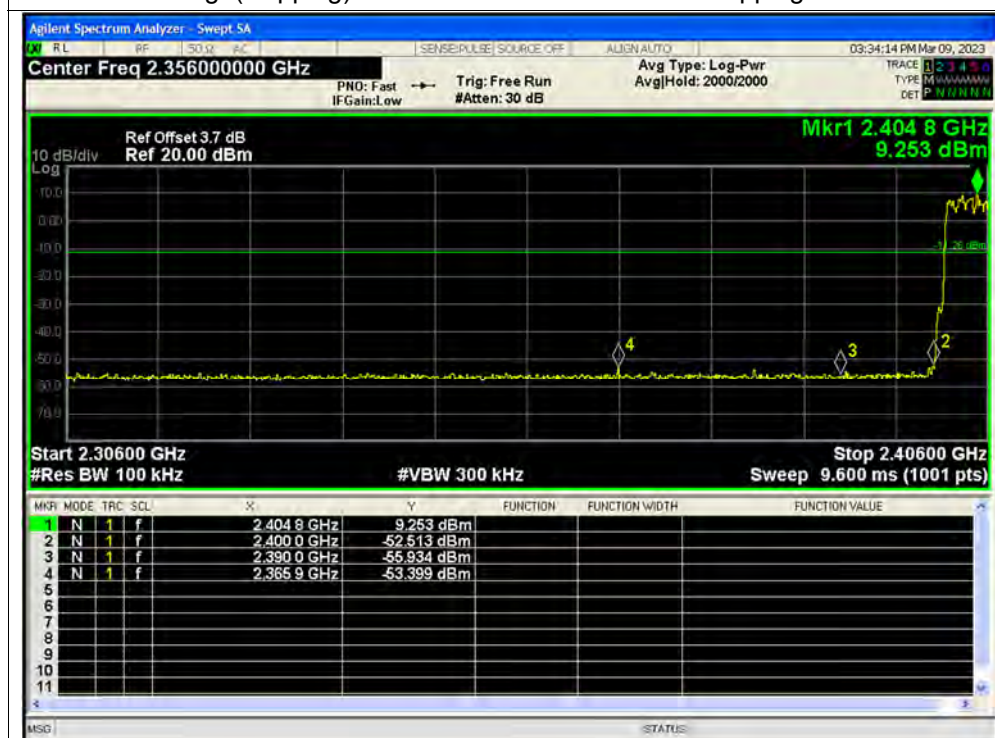
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant0 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Ref



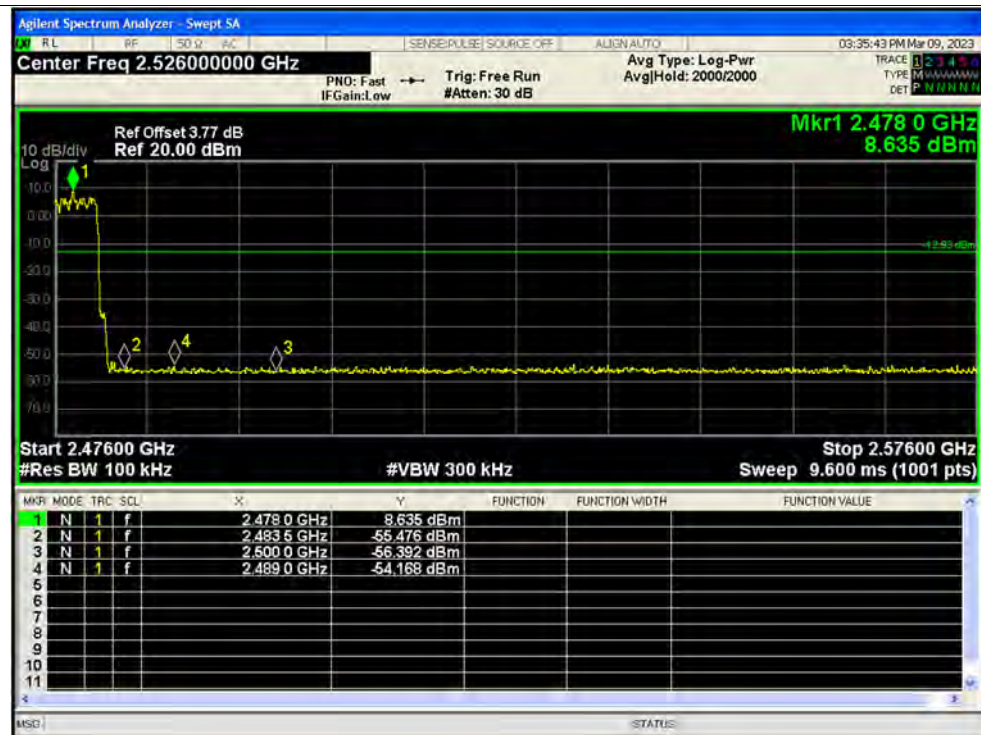
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant0 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Ref

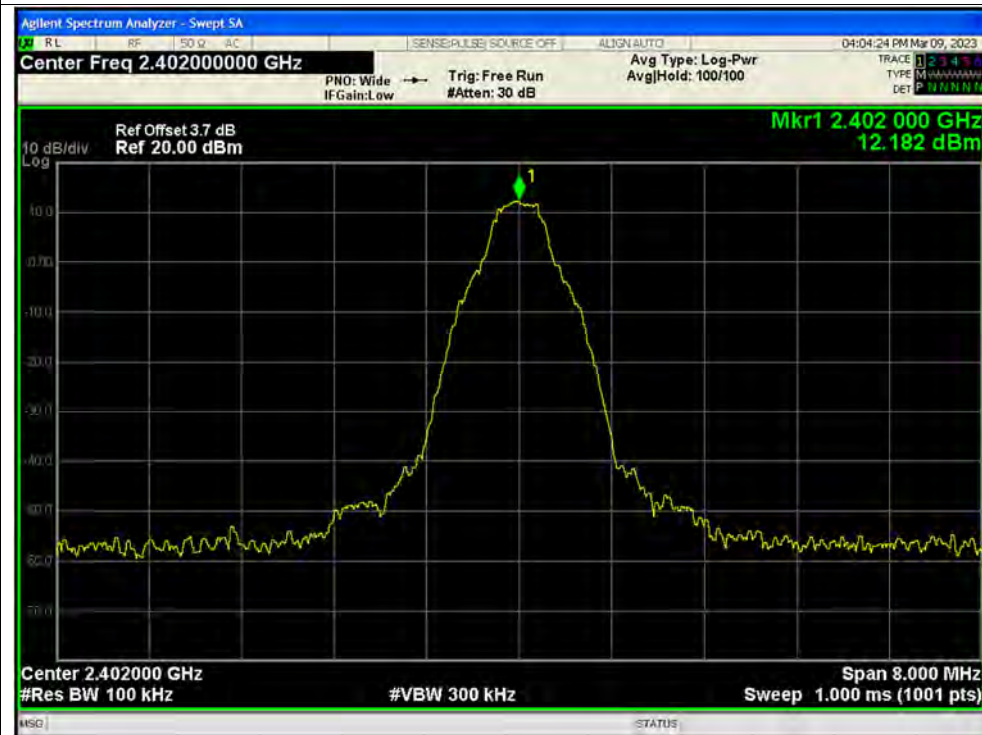


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant0 Hopping Emission

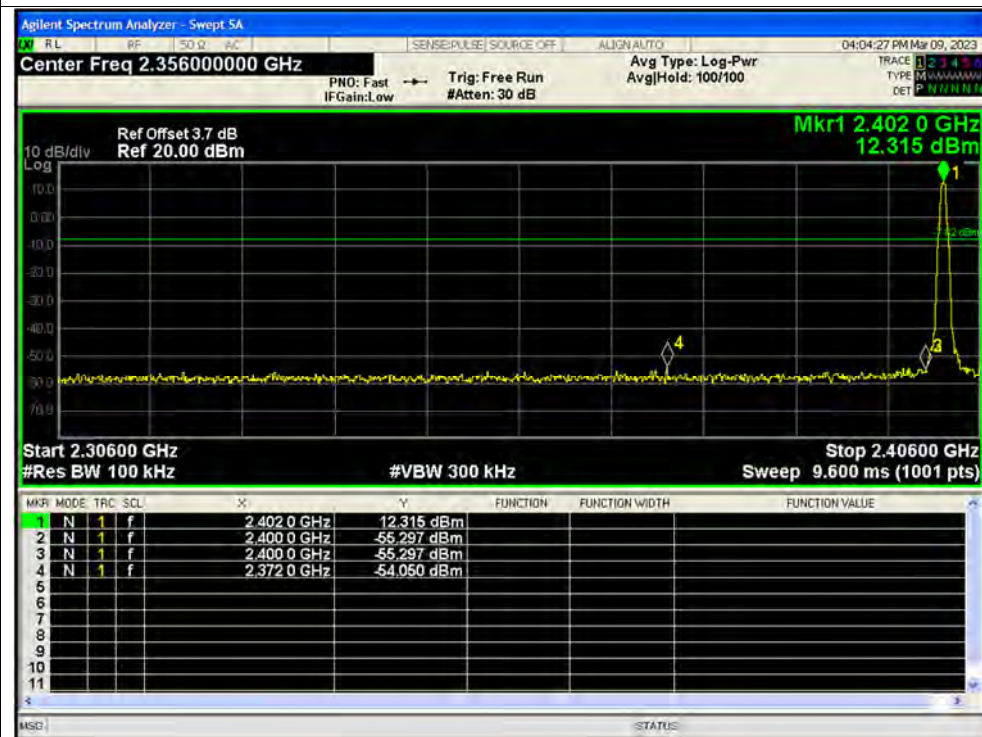


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant3 No-Hopping Ref



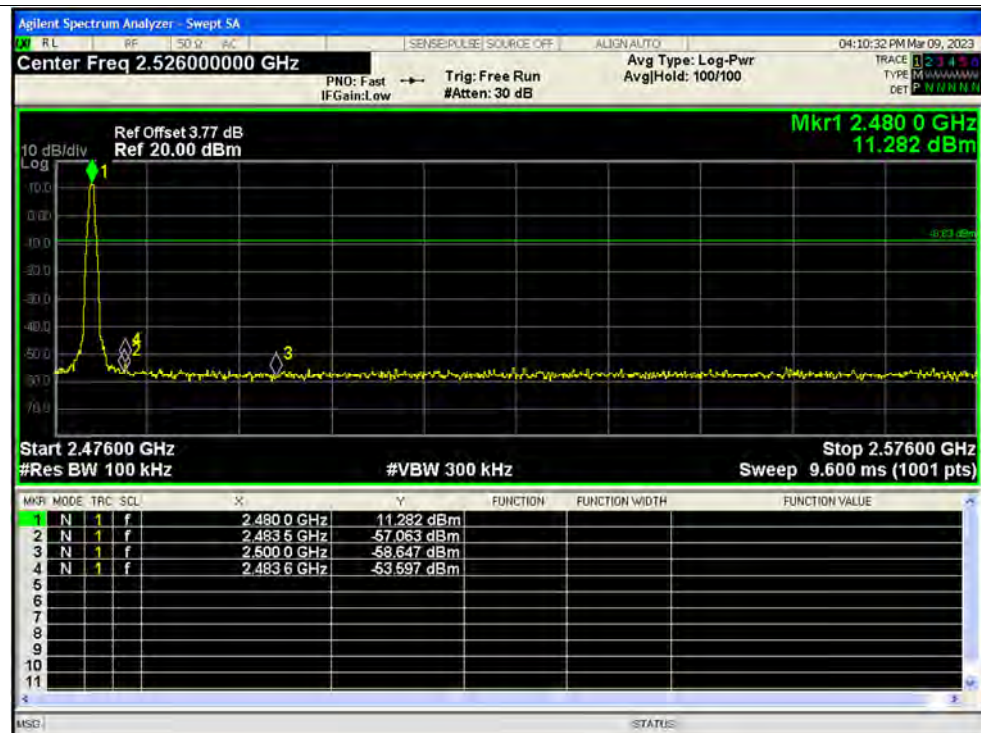
Band Edge NVNT 1-DH5 2402MHz Ant3 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant3 No-Hopping Ref



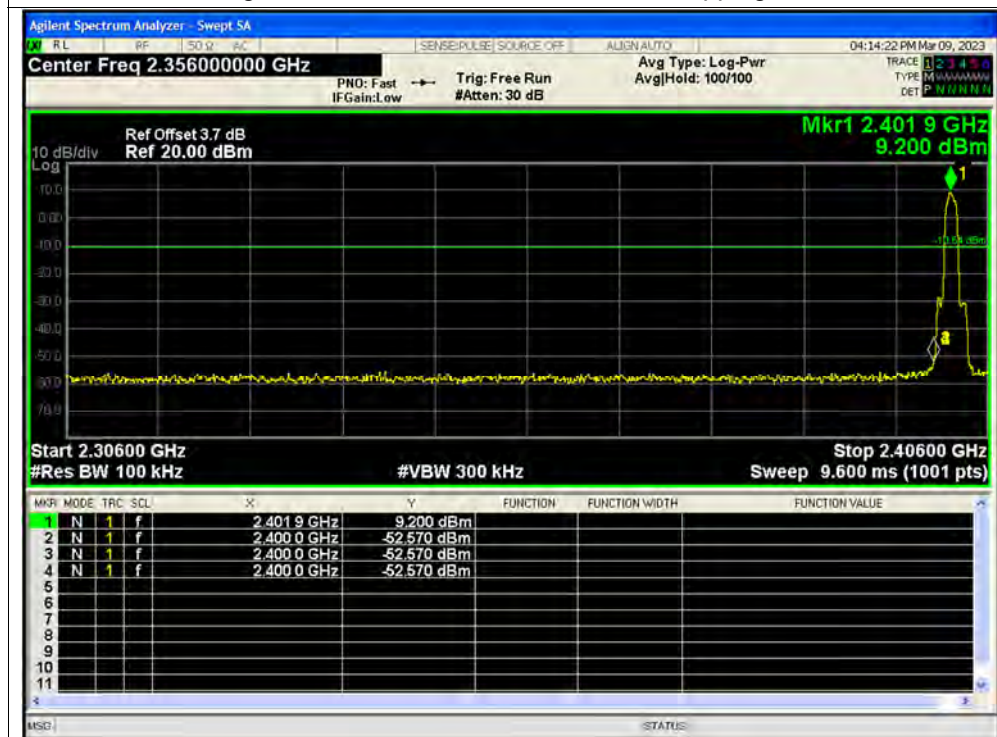
Band Edge NVNT 1-DH5 2480MHz Ant3 No-Hopping Emission



Band Edge NVNT 2-DH5 2402MHz Ant3 No-Hopping Ref



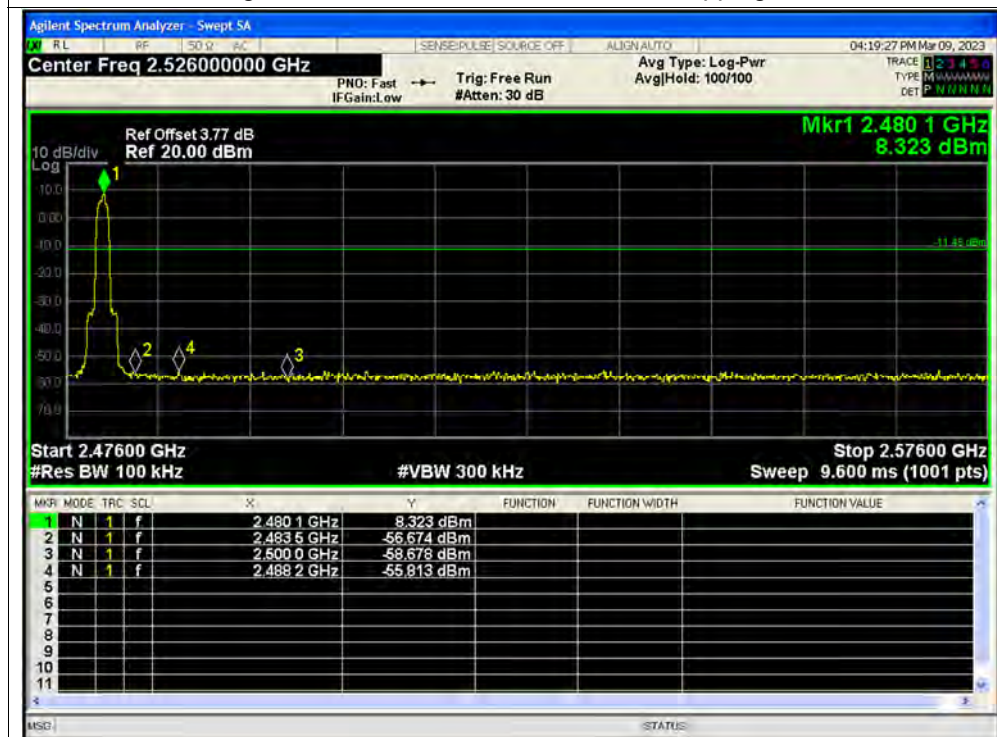
Band Edge NVNT 2-DH5 2402MHz Ant3 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant3 No-Hopping Ref



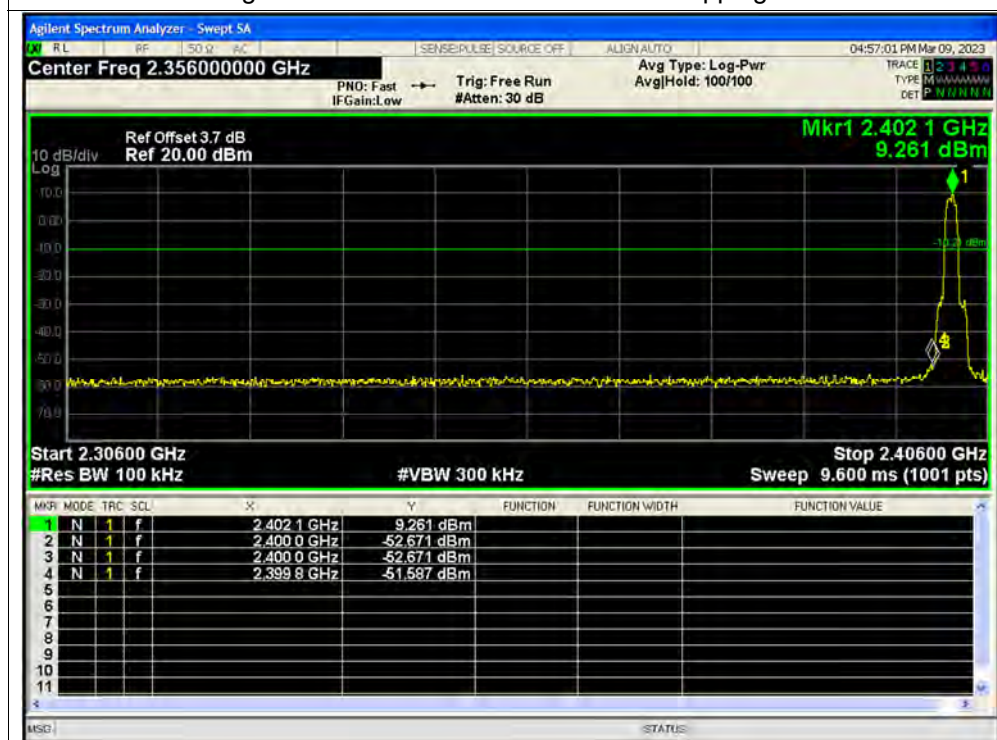
Band Edge NVNT 2-DH5 2480MHz Ant3 No-Hopping Emission



Band Edge NVNT 3-DH5 2402MHz Ant3 No-Hopping Ref



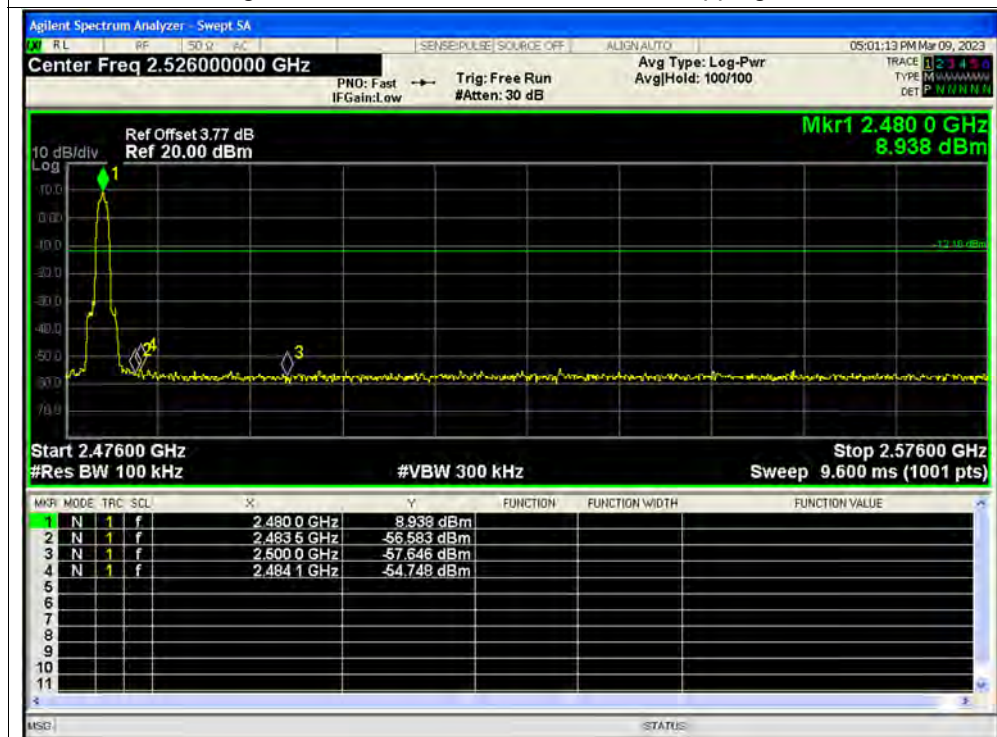
Band Edge NVNT 3-DH5 2402MHz Ant3 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant3 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant3 No-Hopping Emission

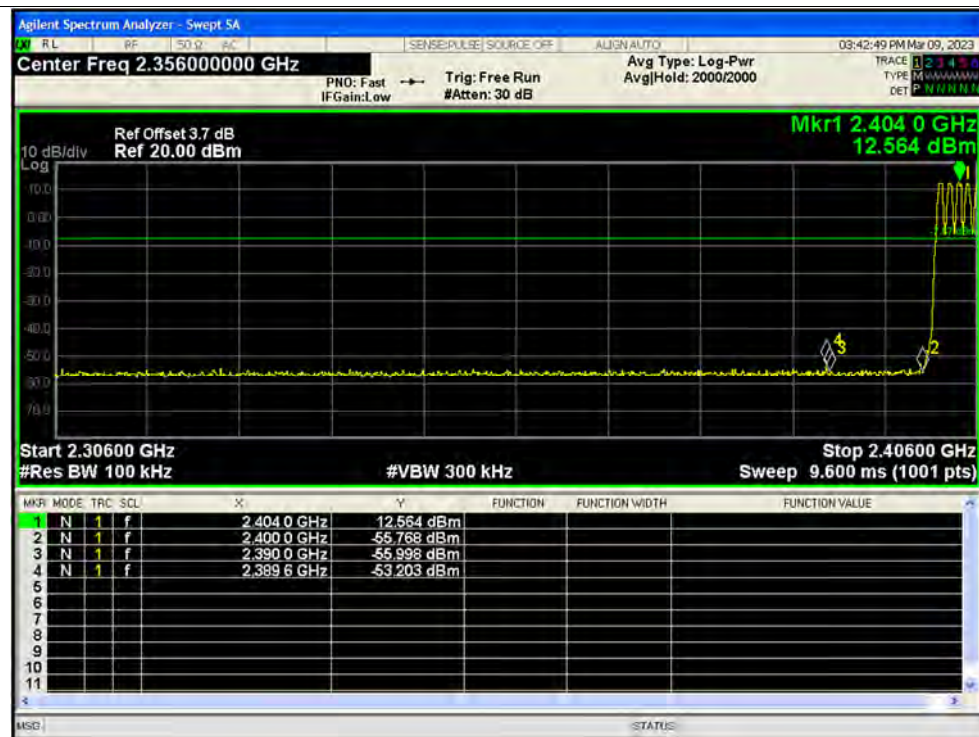


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant3 Hopping Ref



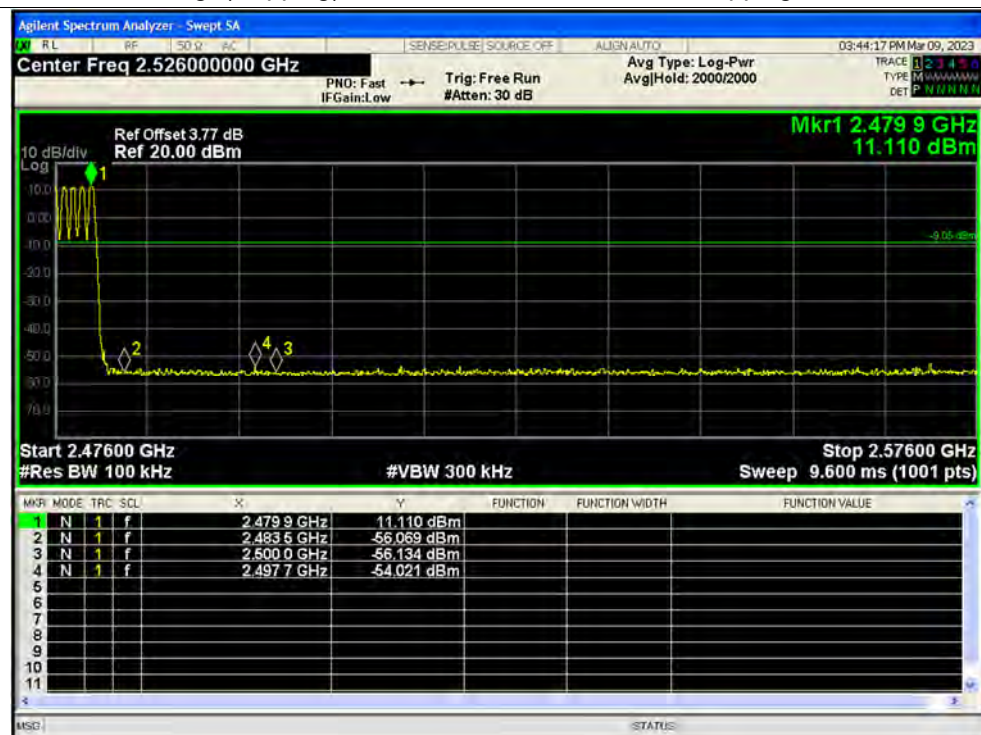
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant3 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant3 Hopping Ref



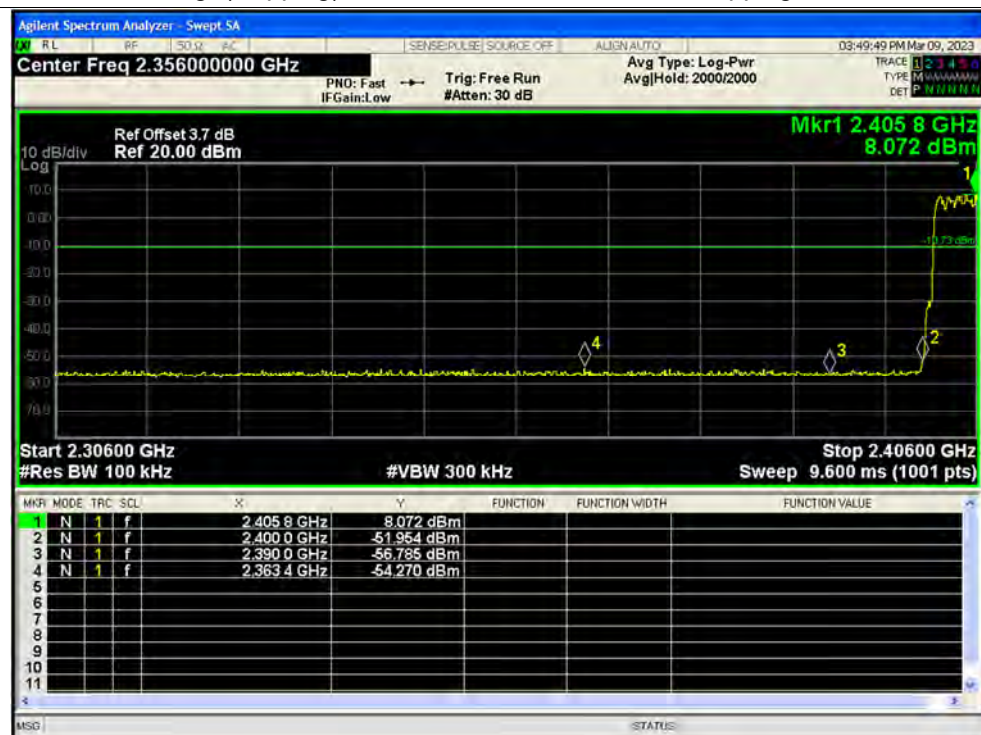
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant3 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant3 Hopping Ref



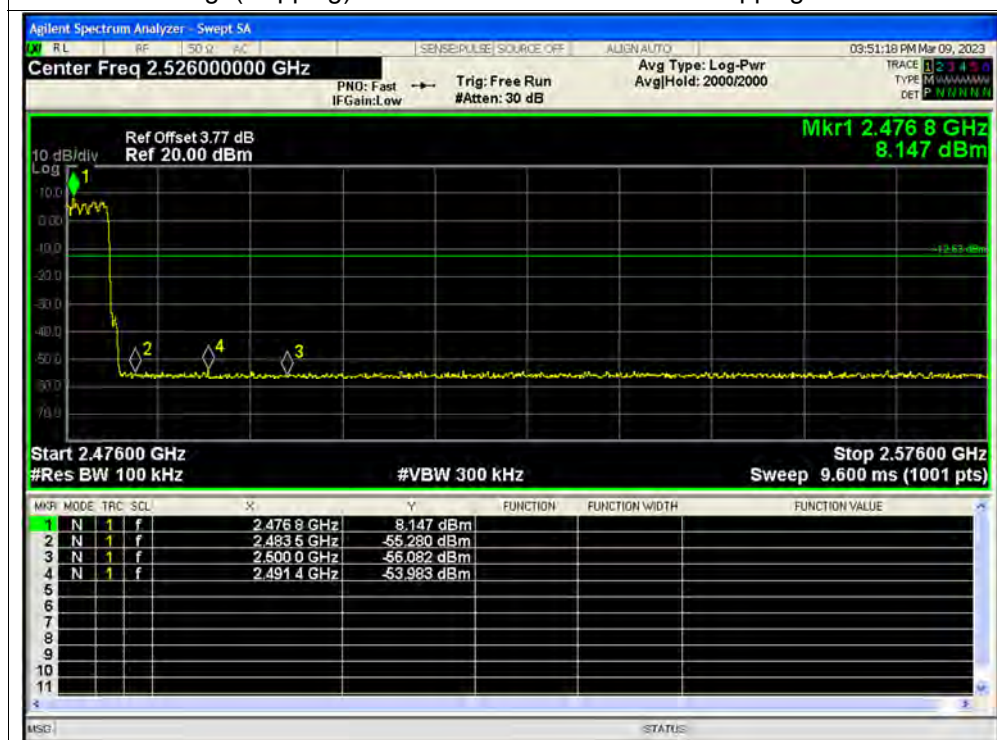
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant3 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant3 Hopping Ref



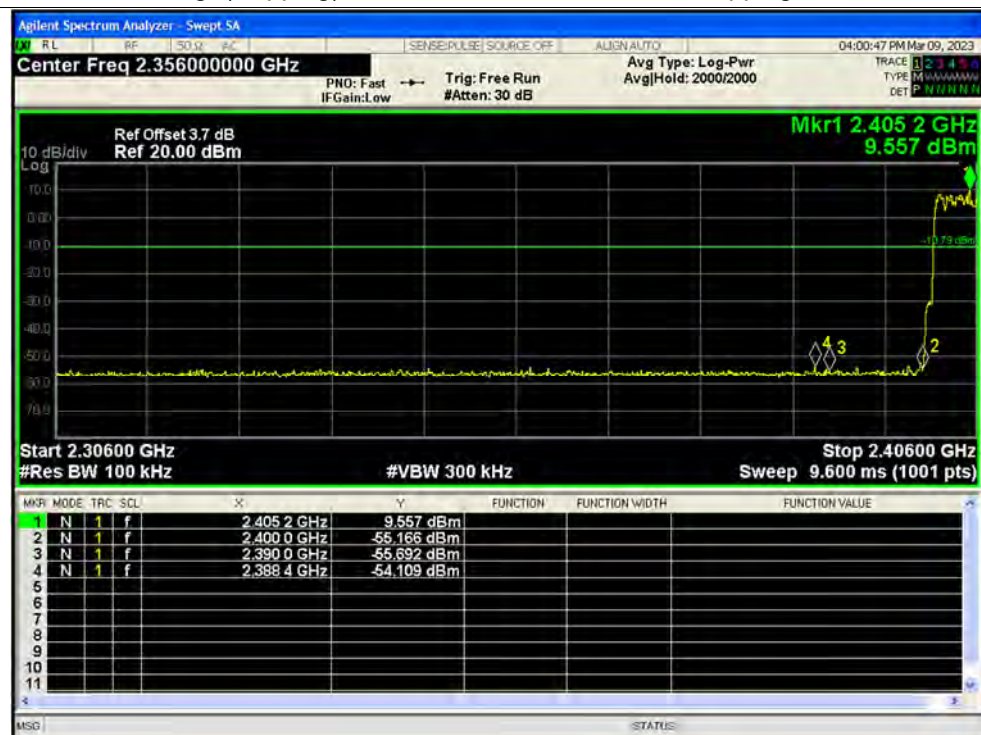
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant3 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant3 Hopping Ref



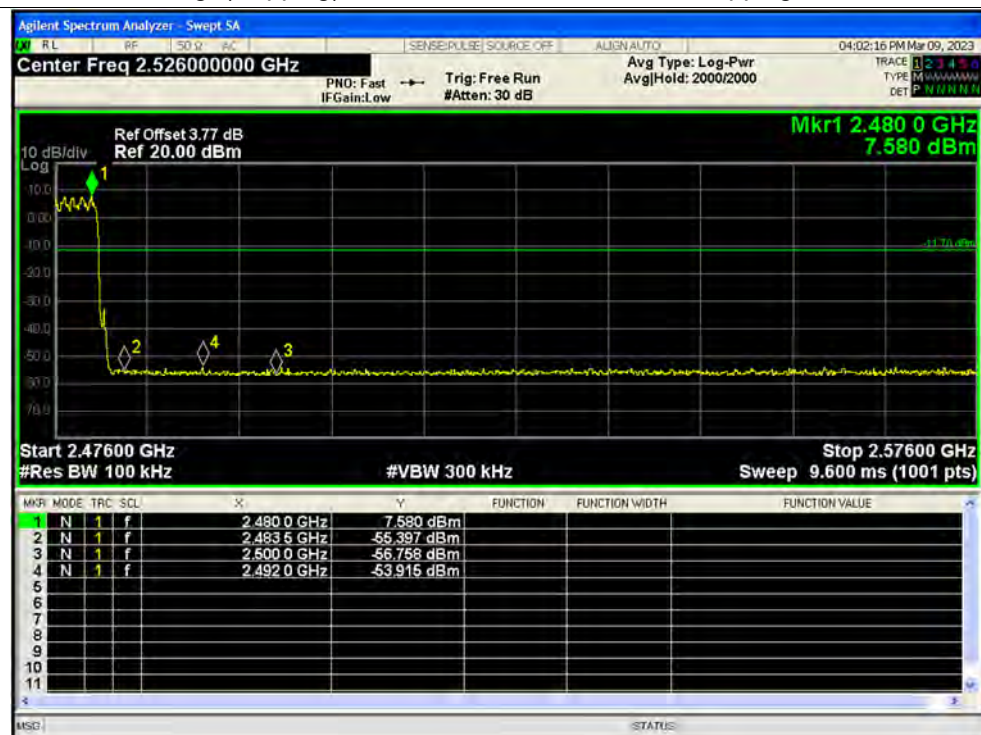
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant3 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant3 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant3 Hopping Emission





A.10. 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 + BT TX

Test voltage: AC 120V/60Hz

The measurement results are obtained as below:

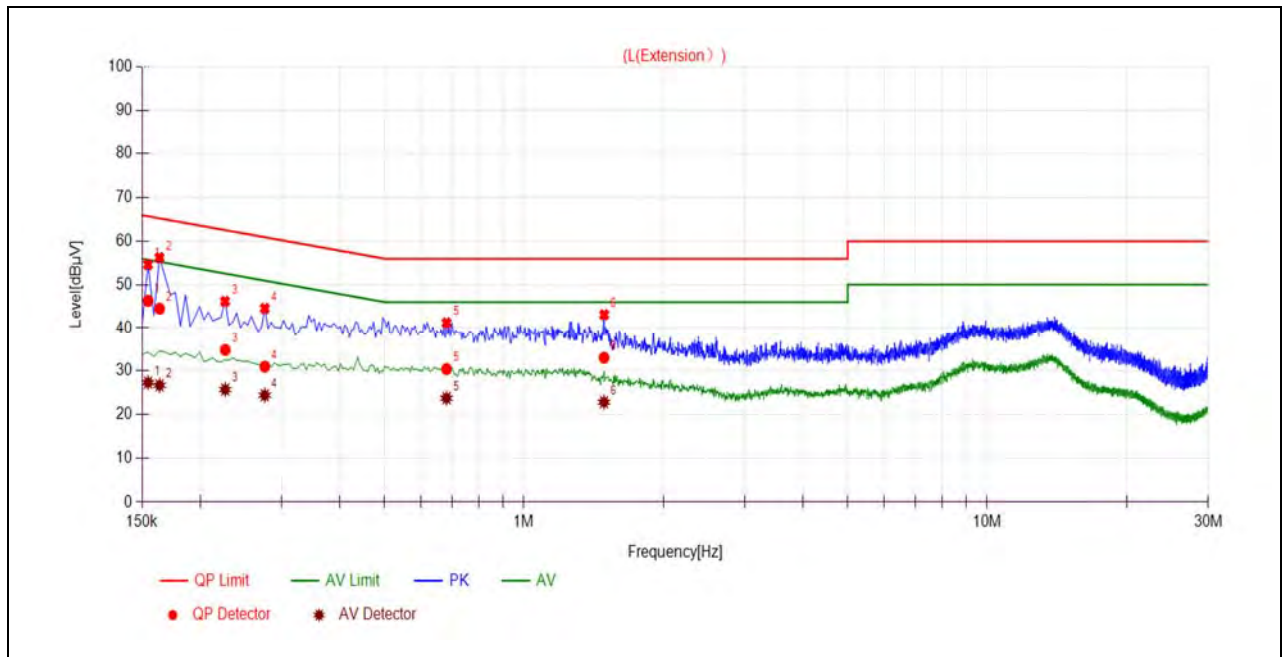
$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

A_{Factor} : Voltage division factor of LISN

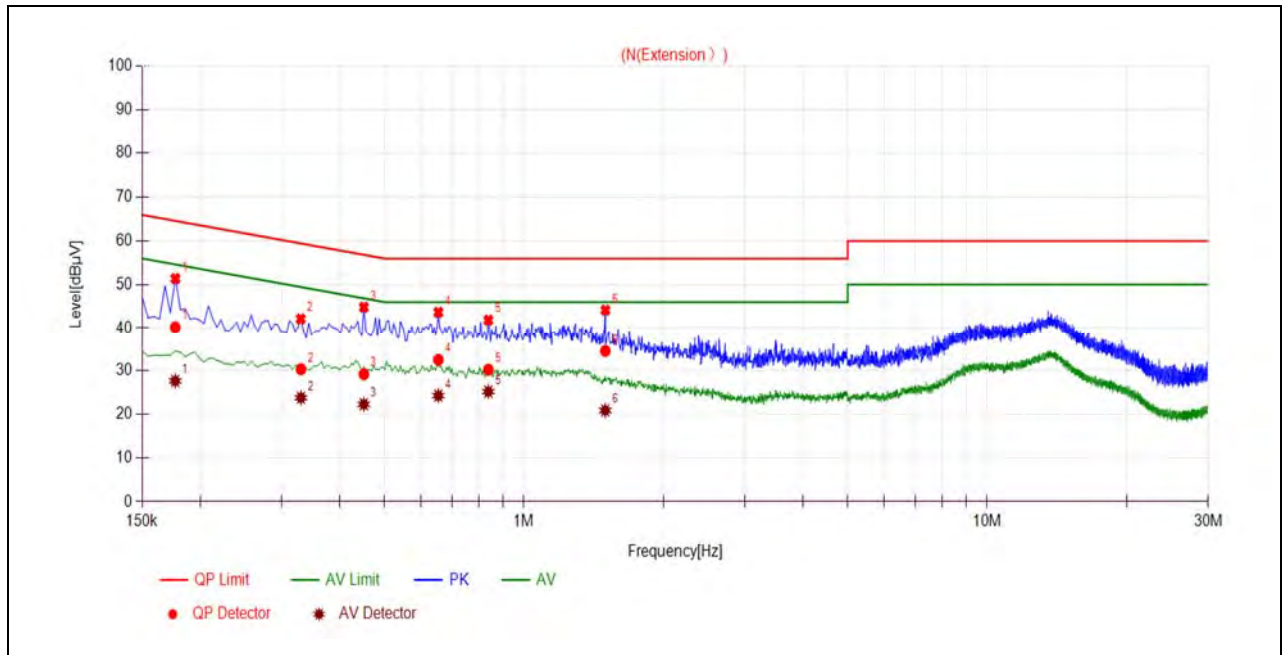


B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1545	46.28	27.30	65.75	55.75	Line	PASS
2	0.1636	44.49	26.67	65.28	55.28		PASS
3	0.2267	34.81	25.69	62.57	52.57		PASS
4	0.2759	30.95	24.39	60.94	50.94		PASS
5	0.6809	30.40	23.72	56.00	46.00		PASS
6	1.4896	33.01	22.82	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	0.1768	40.19	27.64	64.63	54.63	Neutral	PASS
2	0.3303	30.35	23.79	59.44	49.44		PASS
3	0.4514	29.21	22.28	56.85	46.85		PASS
4	0.6538	32.51	24.26	56.00	46.00		PASS
5	0.8384	30.24	25.19	56.00	46.00		PASS
6	1.4987	34.57	20.86	56.00	46.00		PASS

**A.11. 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

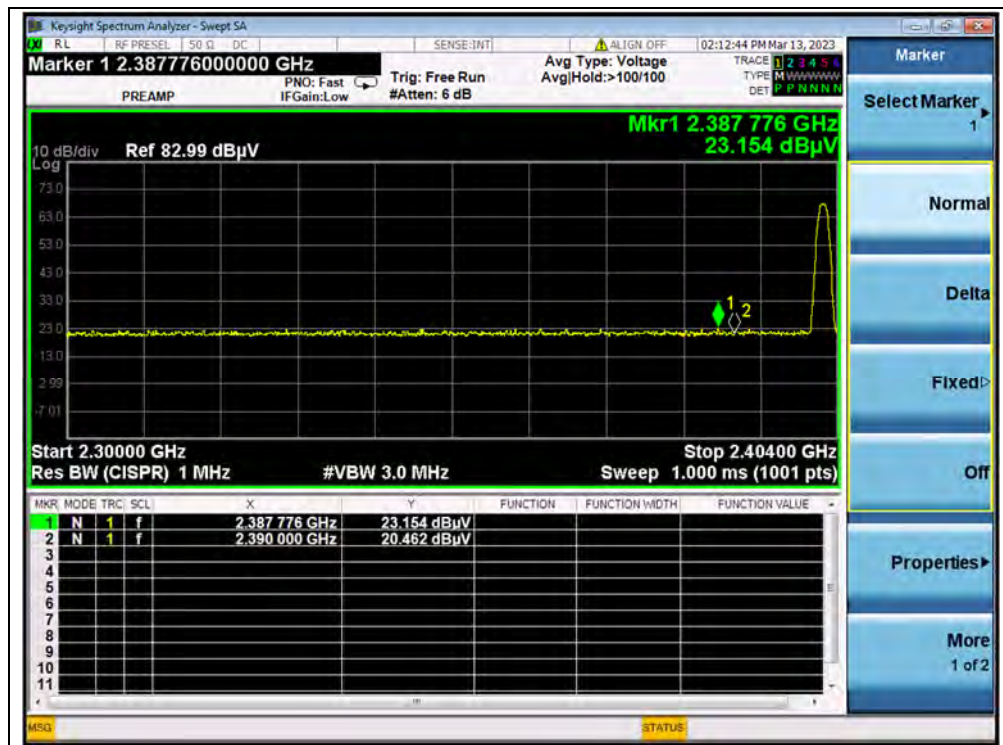
G_{preamp} : Preamplifier Gain

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.

GFSK Mode

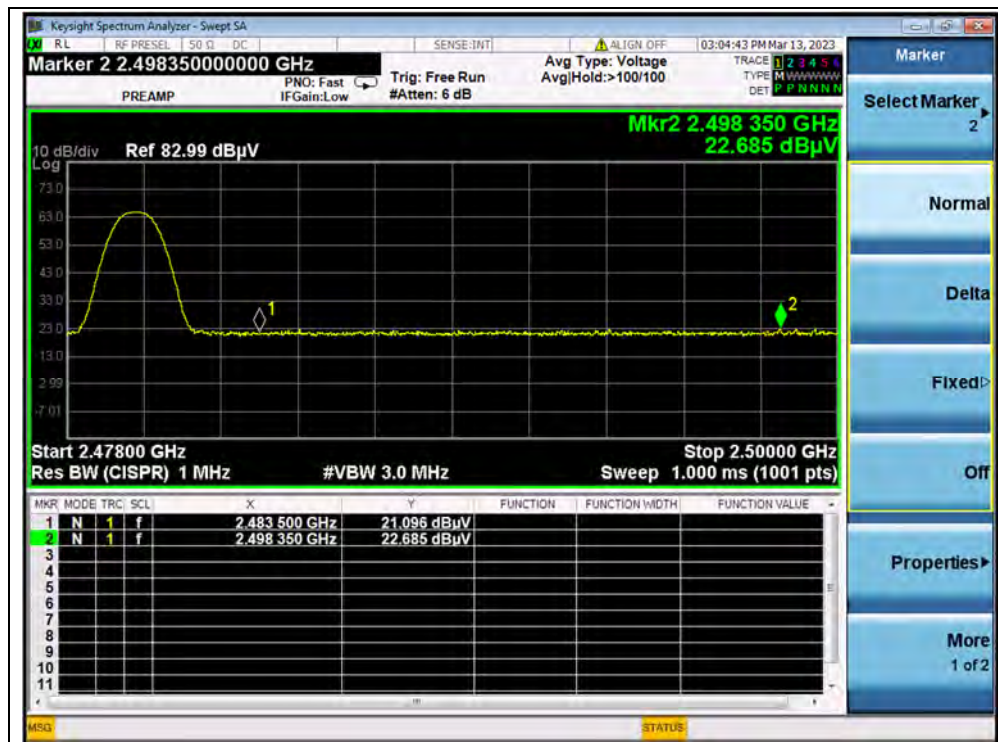
Channel I	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2387.78	PK	23.15	6.74	27.20	57.09	74	PASS
0	2386.32	AV	10.71	6.74	27.20	44.65	54	PASS
78	2498.35	PK	22.69	6.74	27.20	56.63	74	PASS
78	2488.85	AV	12.01	6.74	27.20	45.95	54	PASS



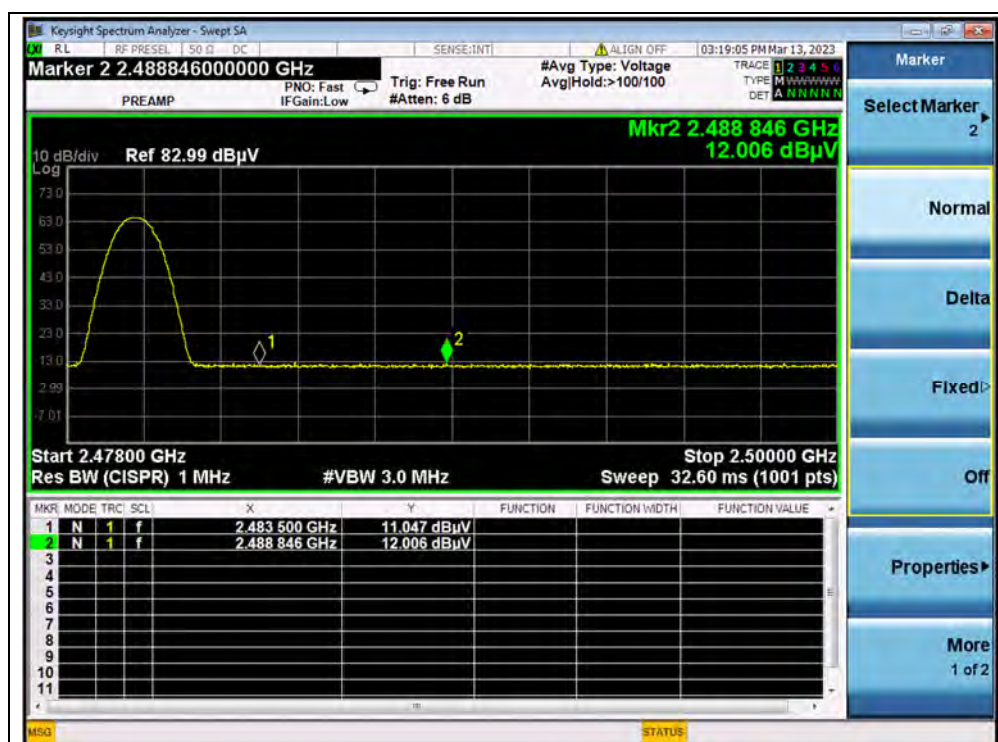
(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

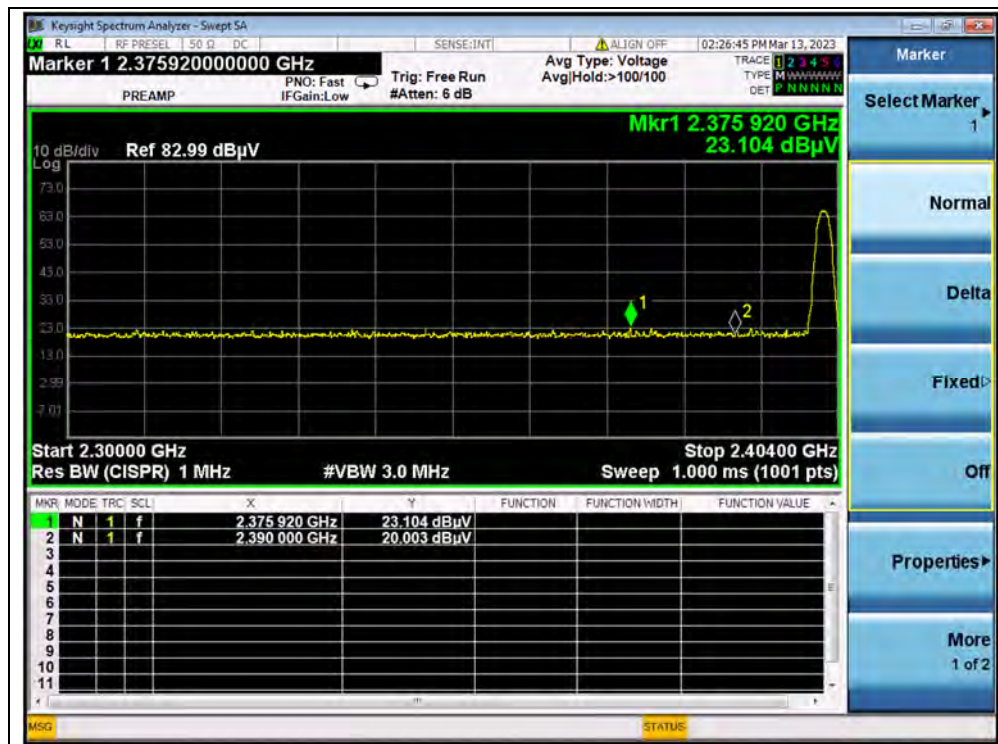


(AVERAGE, Channel 78, GFSK)

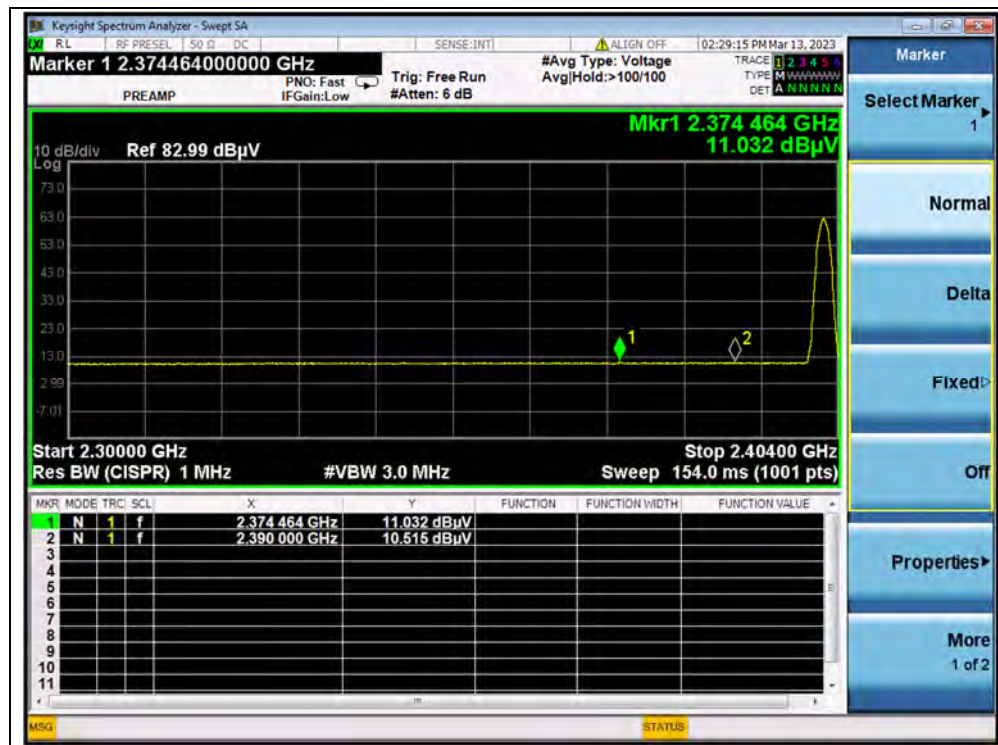
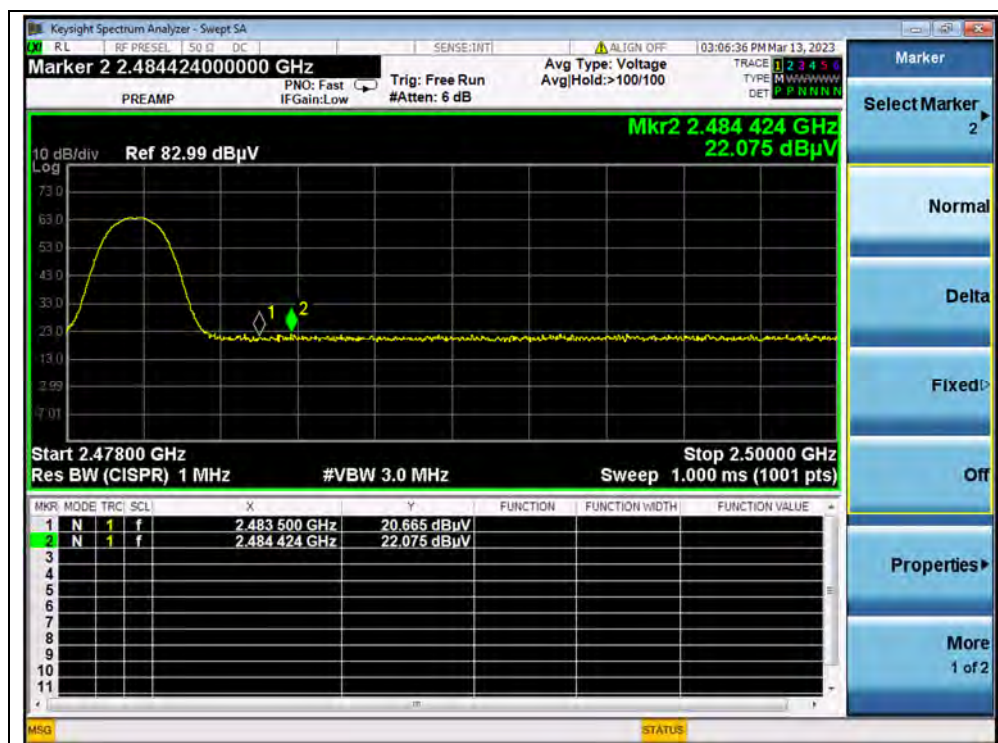


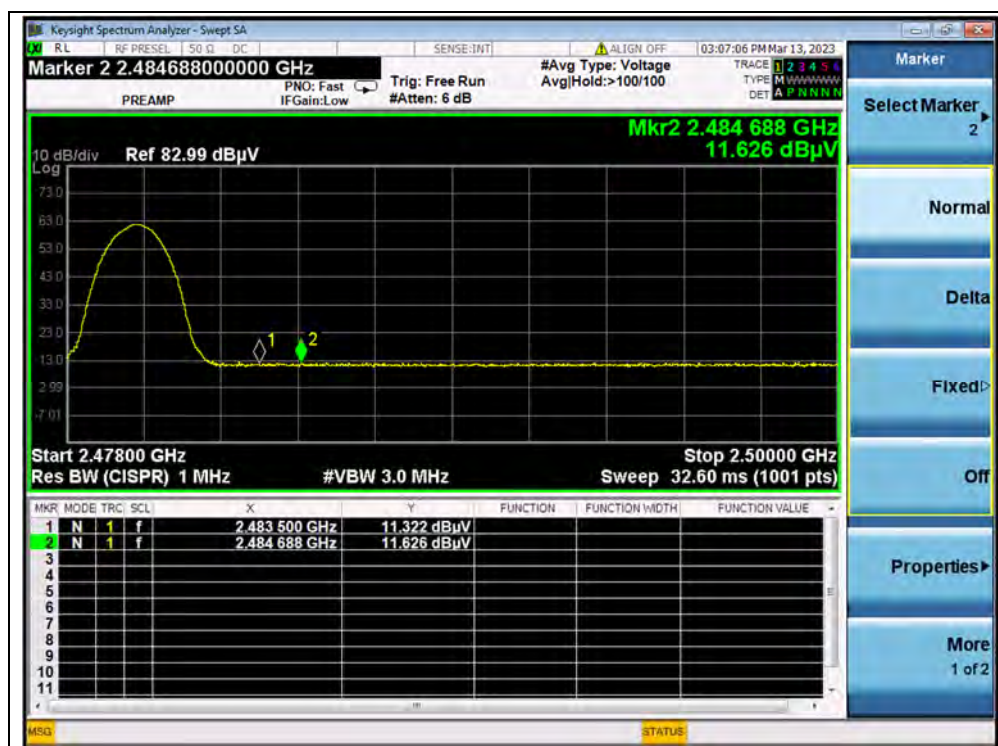
$\pi/4$ -DQPSK Mode

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	2375.92	PK	23.10	6.74	27.20	57.04	74	PASS
0	2374.46	AV	11.03	6.74	27.20	44.97	54	PASS
78	2484.42	PK	22.08	6.74	27.20	56.02	74	PASS
78	2484.69	AV	11.63	6.74	27.20	45.57	54	PASS



(PEAK, Channel 0, $\pi/4$ -DQPSK)

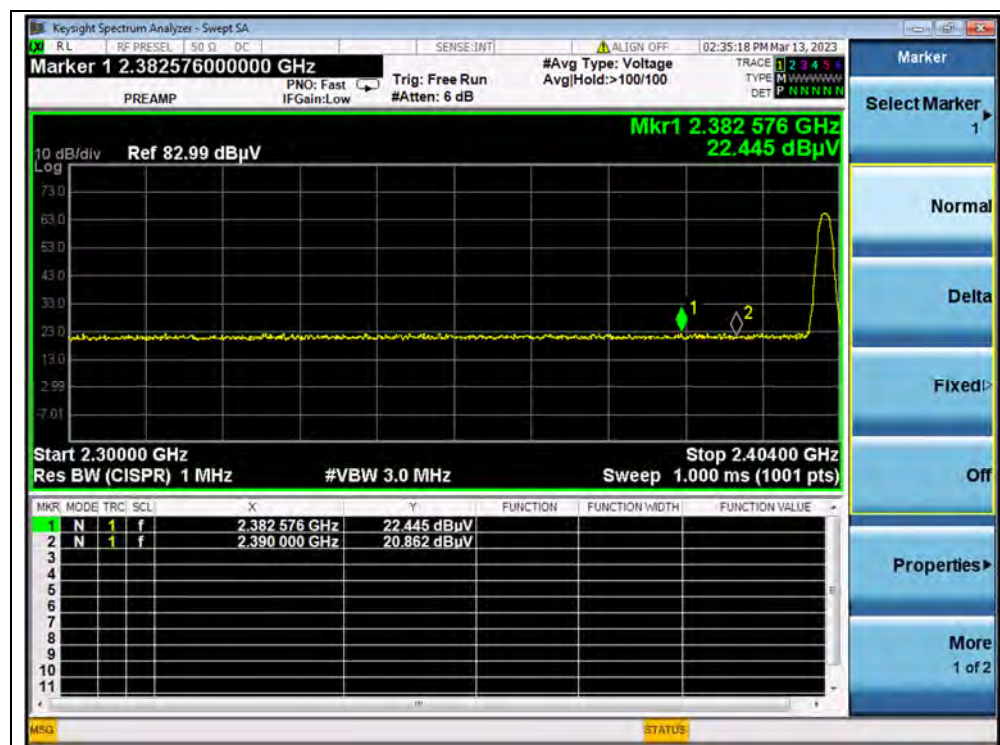

(AVERAGE, Channel 0, $\pi/4$ -DQPSK)

(PEAK, Channel 78, $\pi/4$ -DQPSK)

(AVERAGE, Channel 78, $\pi/4$ -DQPSK)

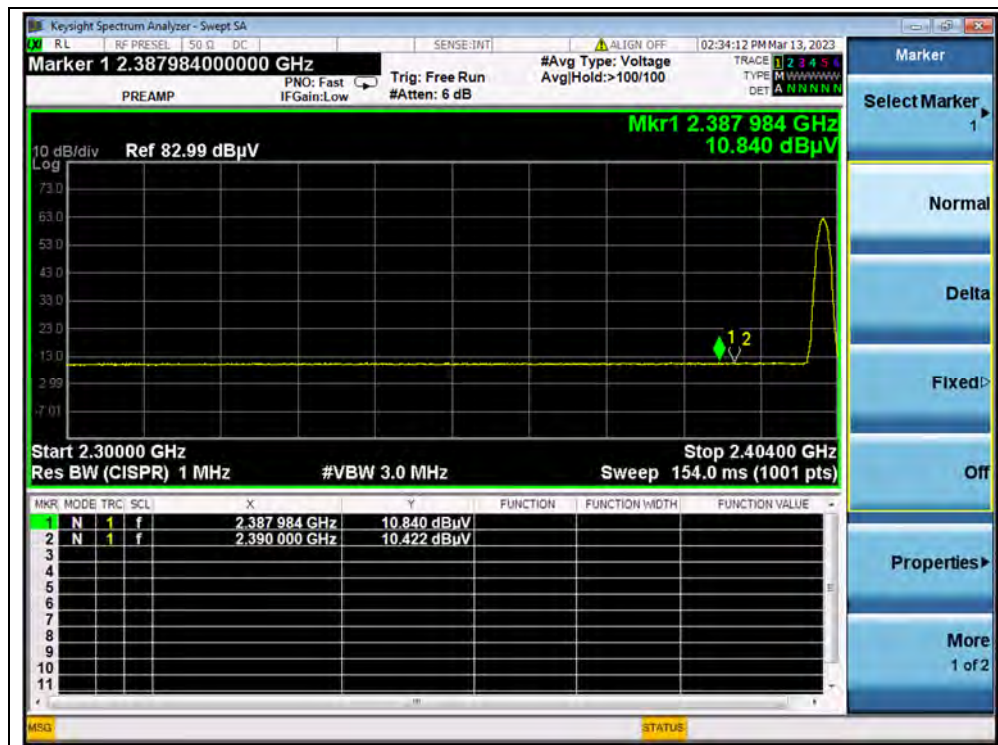


8-DPSK Mode

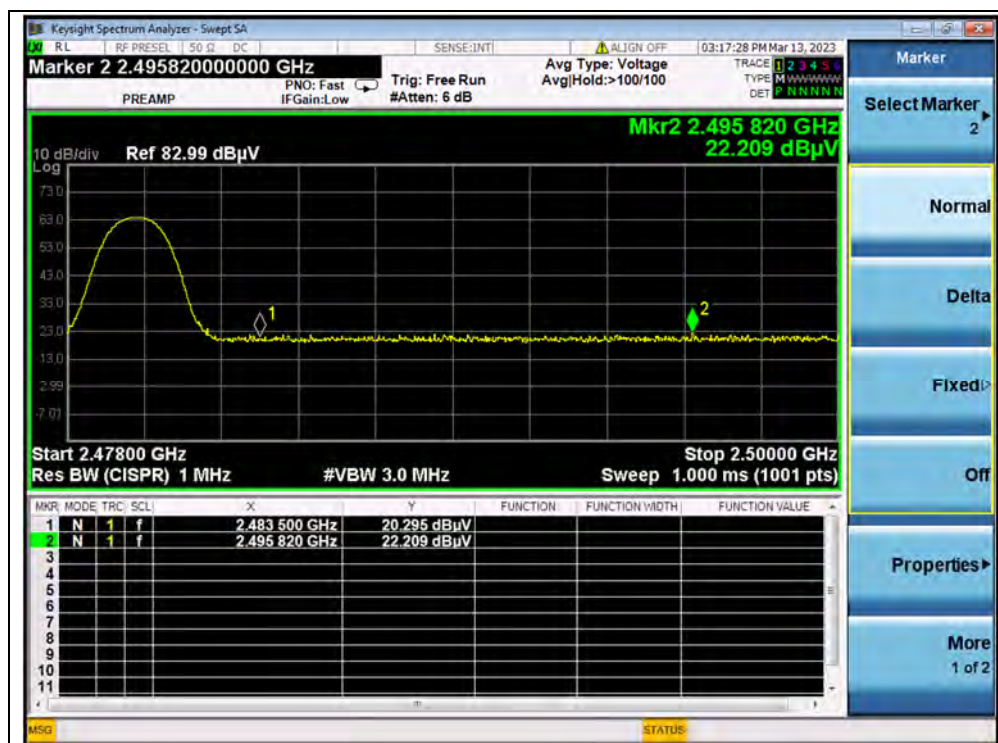
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
0	2382.58	PK	22.45	6.74	27.20	56.39	74	PASS
0	2387.98	AV	10.84	6.74	27.20	44.78	54	PASS
78	2495.82	PK	22.21	6.74	27.20	56.15	74	PASS
78	2496.99	AV	12.64	6.74	27.20	46.58	54	PASS



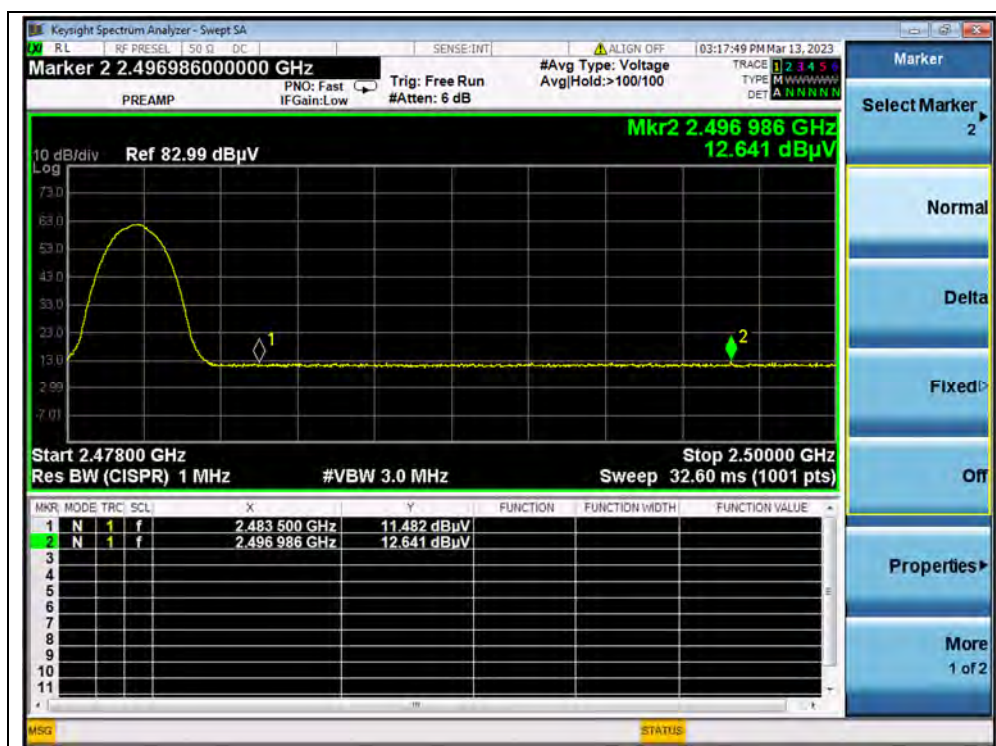
(PEAK, Channel 0, 8-DPSK)



(AVERAGE, Channel 0, 8-DPSK)



(PEAK, Channel 78, 8-DPSK)



(AVERAGE, Channel 78, 8-DPSK)



A.12. 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

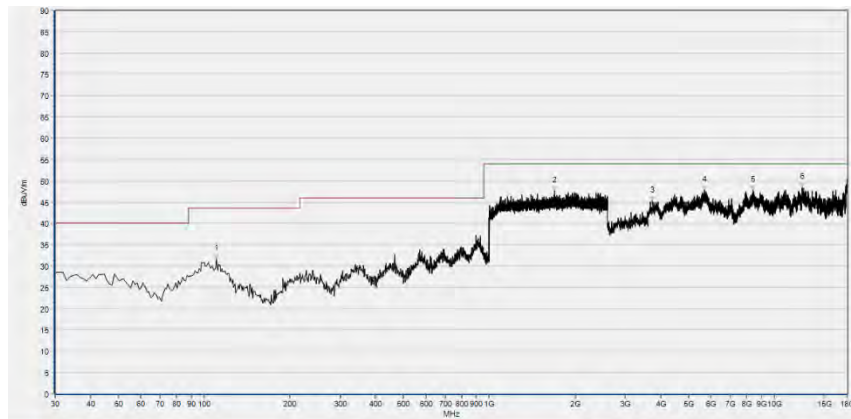
A_{Factor} : Antenna Factor at 3m

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(Z axis) test condition was recorded in this test report.

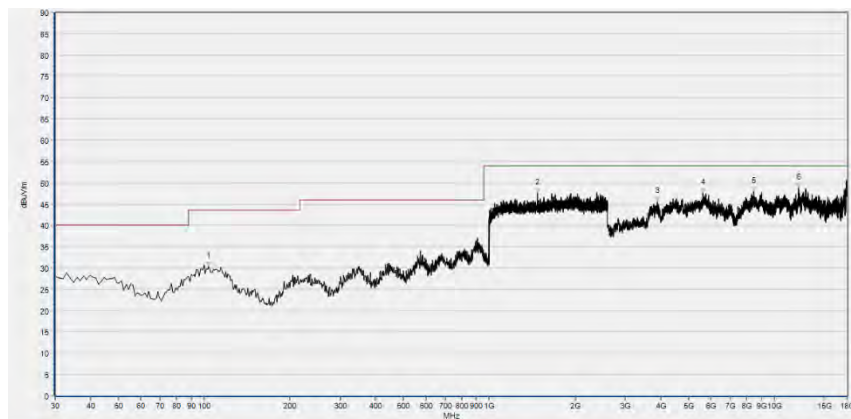
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

**GFSK Mode****Plots for Channel 0**

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	31.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1691.733	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3742.680	45.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5680.000	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8415.040	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12499.120	48.39	N/A	31.25	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

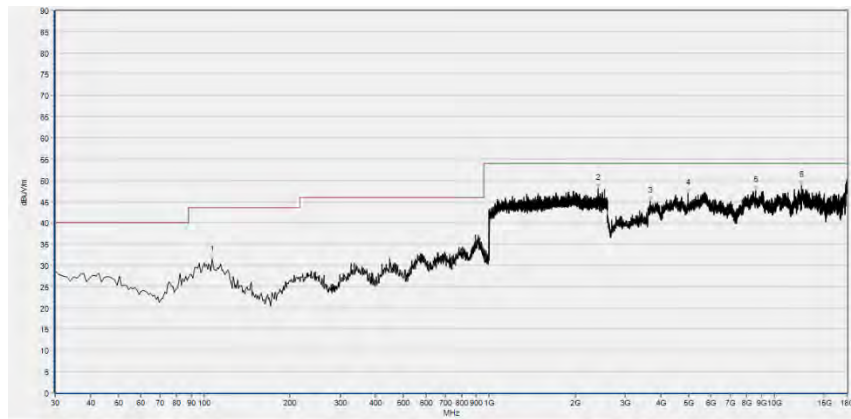


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	30.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1476.800	47.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3890.520	45.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5609.160	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8439.680	47.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12132.600	48.85	N/A	32.80	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

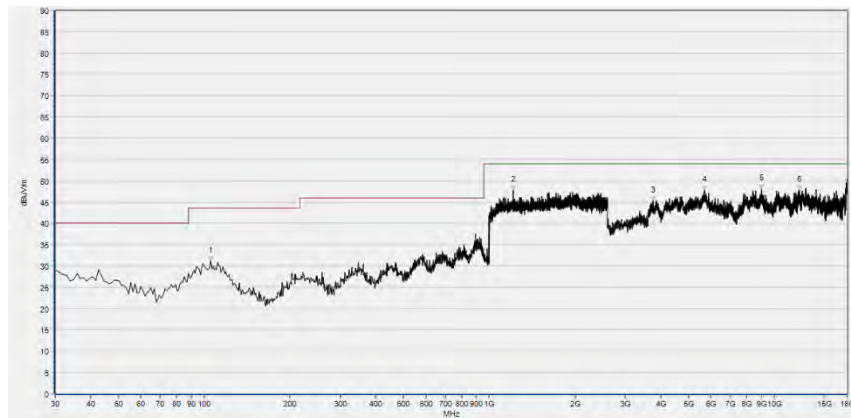


Plot for Channel 39



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	31.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2413.333	48.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3674.920	45.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4990.080	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8584.440	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12477.560	48.76	N/A	32.42	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

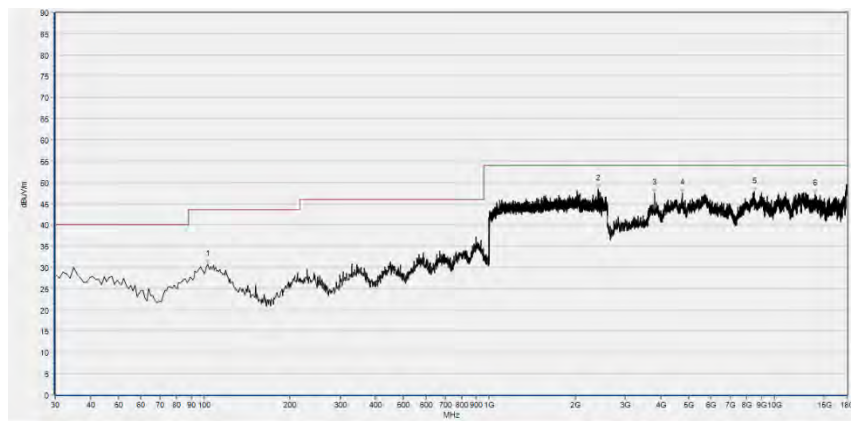


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	31.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1214.933	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3764.240	45.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5670.760	47.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9009.480	48.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12218.840	47.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Vertical, 30MHz to 18GHz)

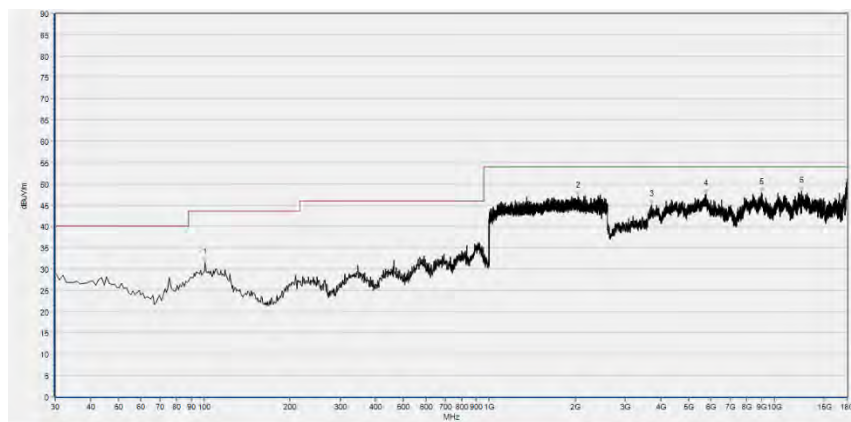


Plot for Channel 78



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	30.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2414.400	48.35	N/A	31.80	74.00	N/A	54.00	Horizontal	PASS
3807.360	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4756.000	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8485.880	47.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13854.320	47.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

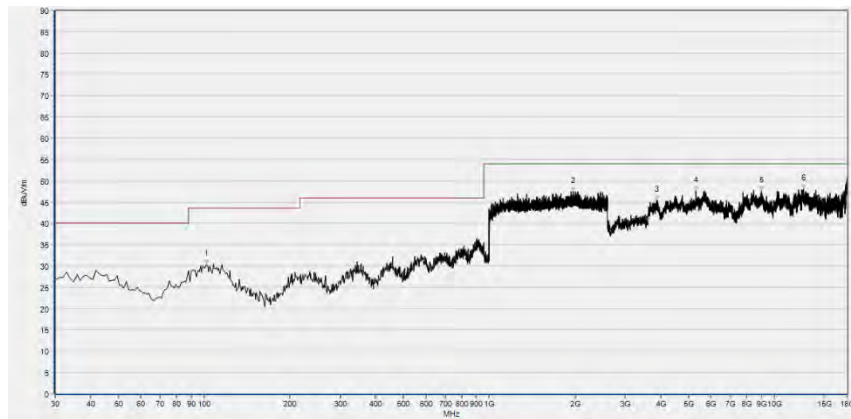


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	31.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2053.867	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3718.040	45.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5757.000	47.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8991.000	47.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12480.640	48.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

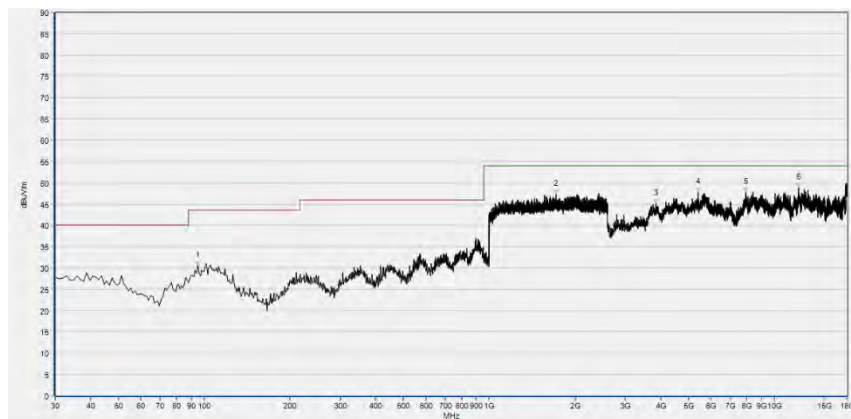
 **$\pi/4$ -DQPSK Mode**

Plots for Channel 0



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	30.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1971.733	47.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3859.720	45.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5307.320	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9000.240	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12677.760	48.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

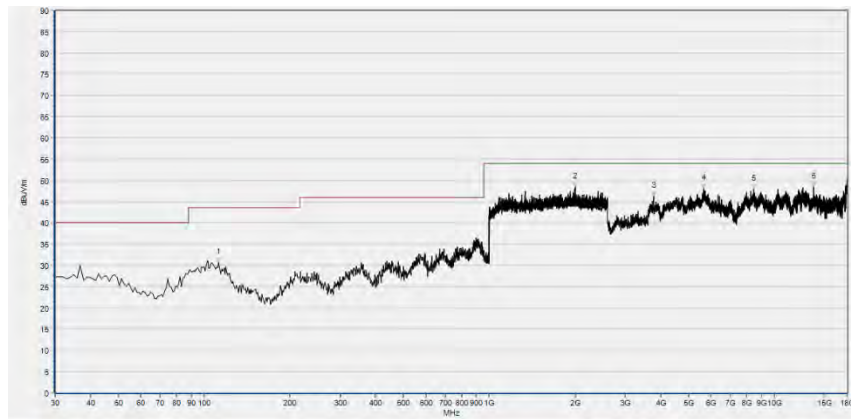
(Antenna Horizontal, 30MHz to 18GHz)



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
94.990	30.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1711.467	47.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3850.480	45.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5412.040	47.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7959.200	47.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12194.200	48.71	N/A	31.80	74.00	N/A	54.00	Vertical	PASS

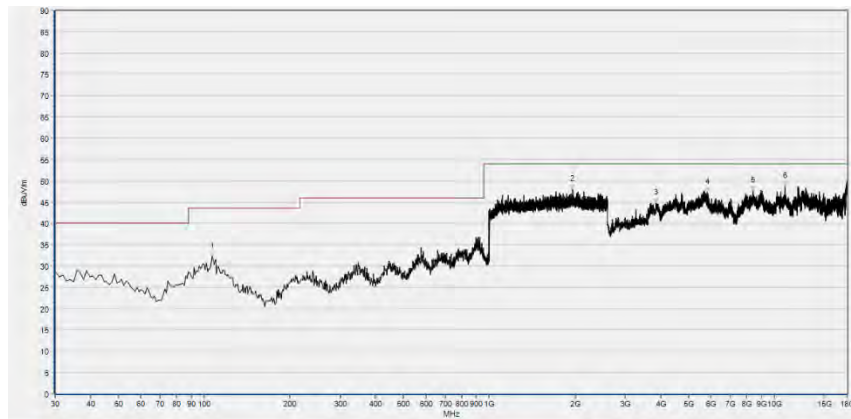
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 39



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	30.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2001.067	48.48	N/A	33.50	74.00	N/A	54.00	Horizontal	PASS
3767.320	46.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.280	48.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8476.640	47.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13700.320	48.41	N/A	32.42	74.00	N/A	54.00	Horizontal	PASS

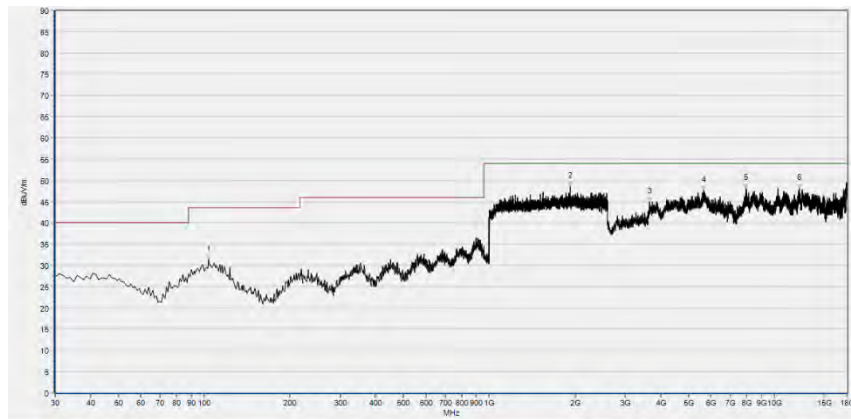
(Antenna Horizontal, 30MHz to 18GHz)



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	32.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1962.667	48.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3838.160	44.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5809.360	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8390.400	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10885.200	48.60	N/A	31.50	74.00	N/A	54.00	Vertical	PASS

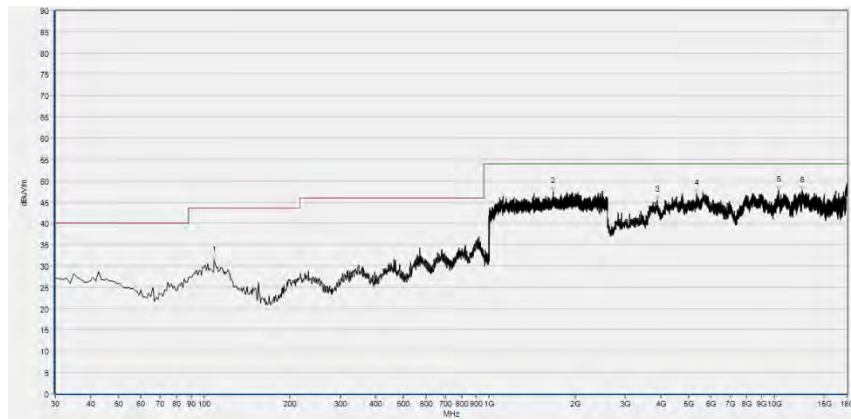
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 78



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	31.28	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1925.333	48.54	N/A	32.70	74.00	N/A	54.00	Horizontal	PASS
3650.280	44.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5661.520	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7937.640	48.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12228.080	48.14	N/A	31.97	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

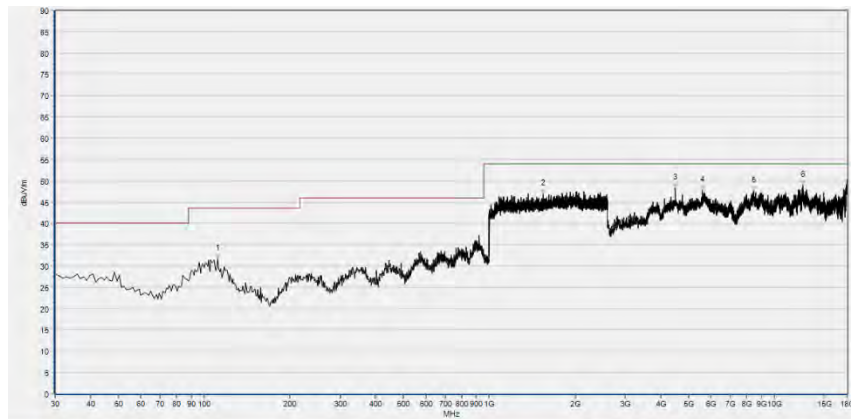


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1677.867	47.47	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3875.120	45.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5341.200	46.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10352.360	47.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12517.600	47.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

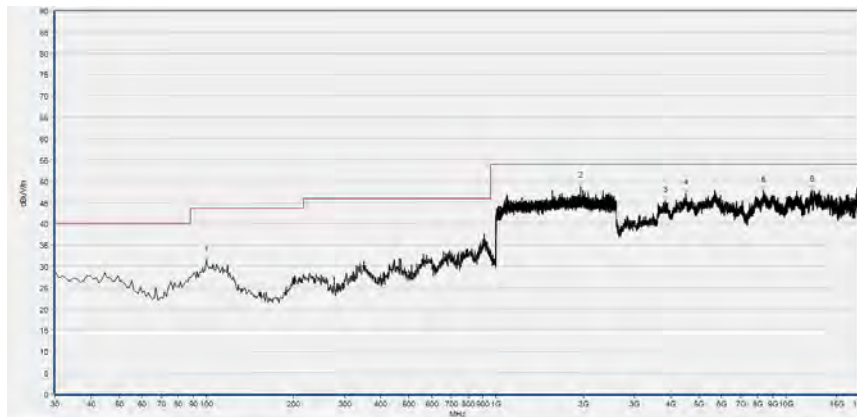
**8-DPSK Mode**

Plots for Channel 0



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	31.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1546.133	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4500.360	48.23	N/A	32.08	74.00	N/A	54.00	Horizontal	PASS
5593.760	47.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8445.840	47.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12600.760	48.98	N/A	33.52	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

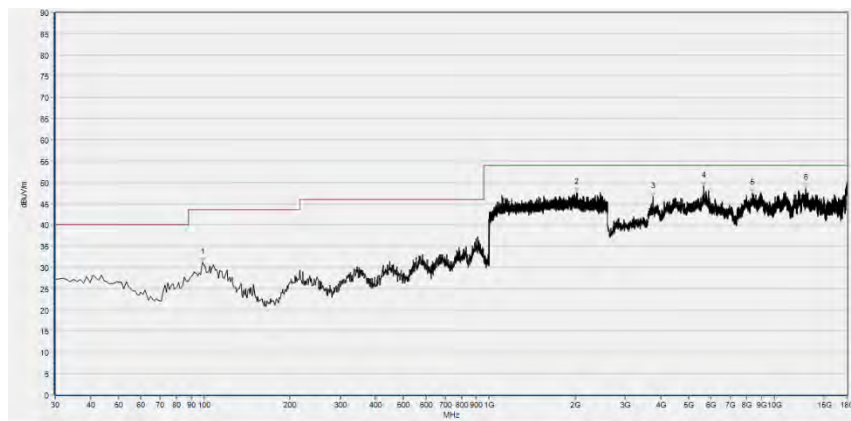


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	31.40	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1953.600	48.70	N/A	33.04	74.00	N/A	54.00	Vertical	PASS
3847.400	45.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4512.680	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8381.160	47.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12289.680	47.97	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

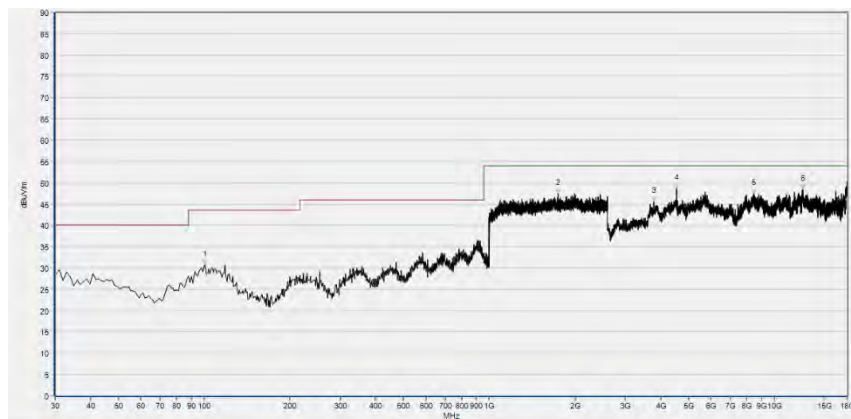


Plot for Channel 39



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2030.933	47.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3758.080	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5658.440	49.09	N/A	33.80	74.00	N/A	54.00	Horizontal	PASS
8384.240	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12902.600	48.65	N/A	32.44	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

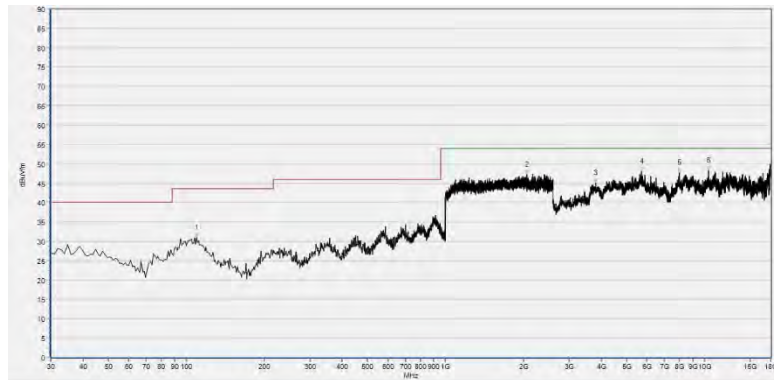


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.810	30.75	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1748.267	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3776.560	45.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4540.400	48.57	N/A	32.55	74.00	N/A	54.00	Vertical	PASS
8482.800	47.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12573.040	48.41	N/A	32.68	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

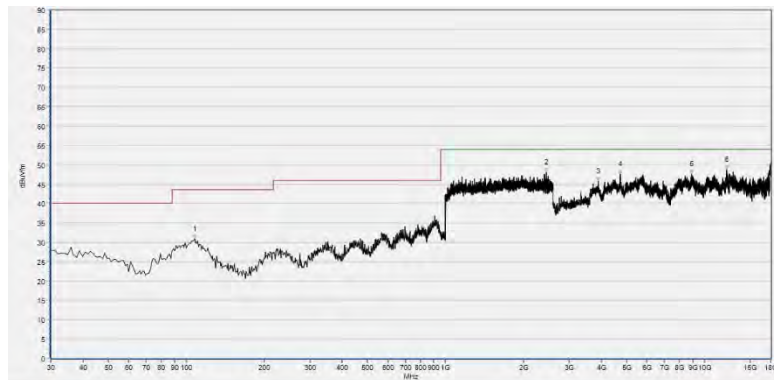


Plot for Channel 78



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	30.99	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2059.733	47.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3807.360	45.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5701.560	48.17	N/A	31.52	74.00	N/A	54.00	Horizontal	PASS
7968.440	47.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10343.120	48.20	N/A	31.90	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	30.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2452.800	48.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3893.600	45.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	47.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8920.160	47.55	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12175.720	48.85	N/A	32.90	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT