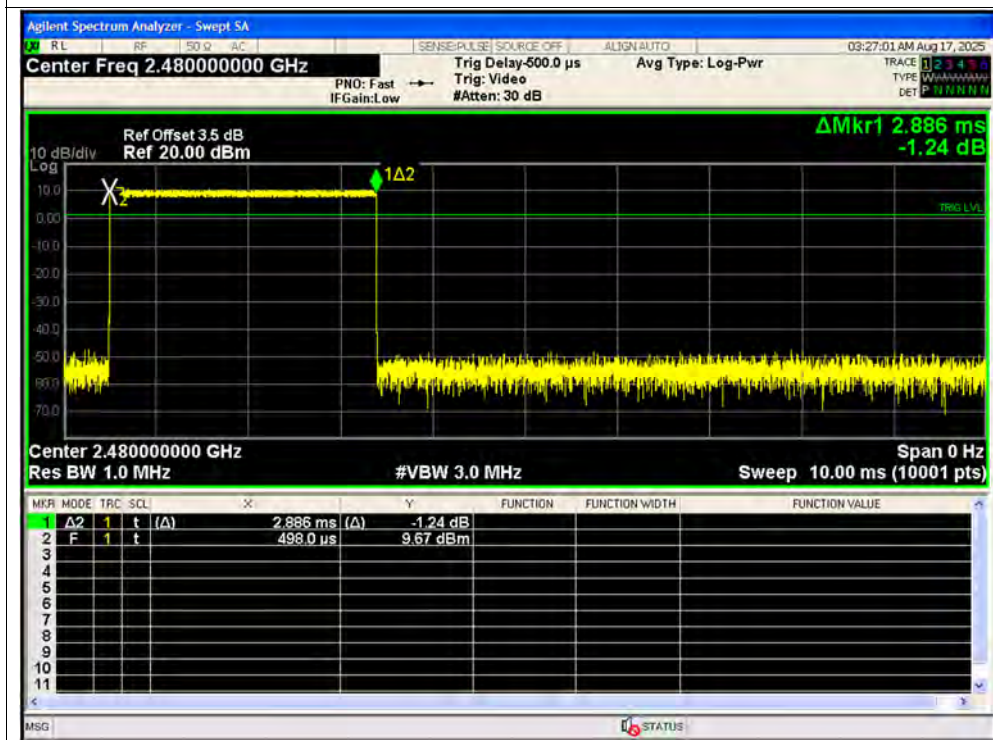
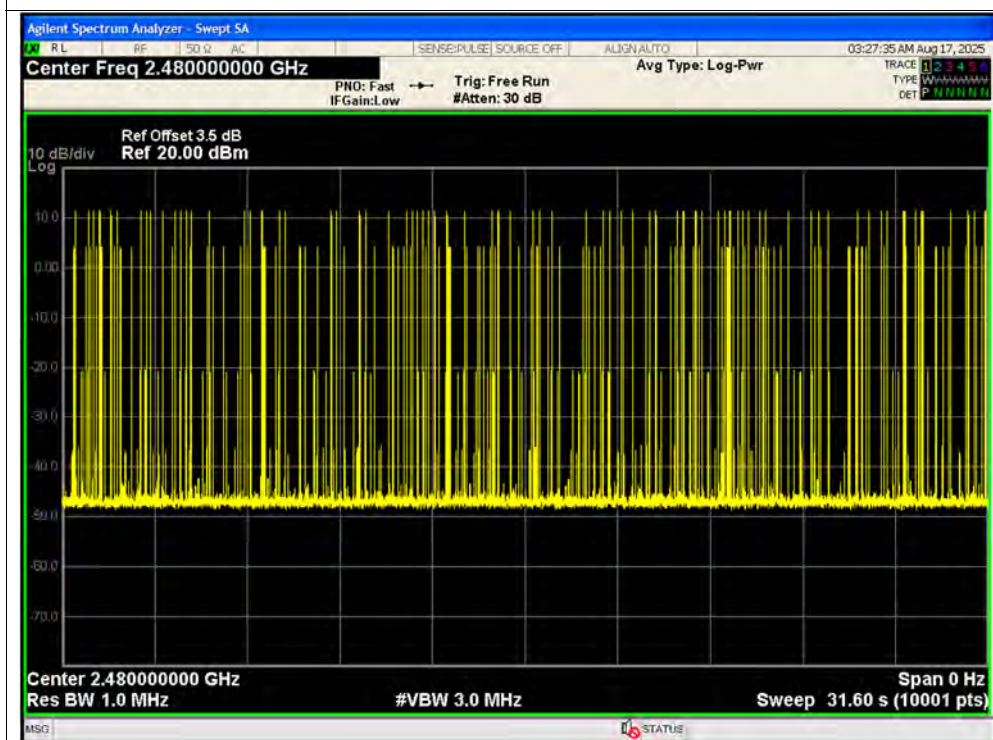




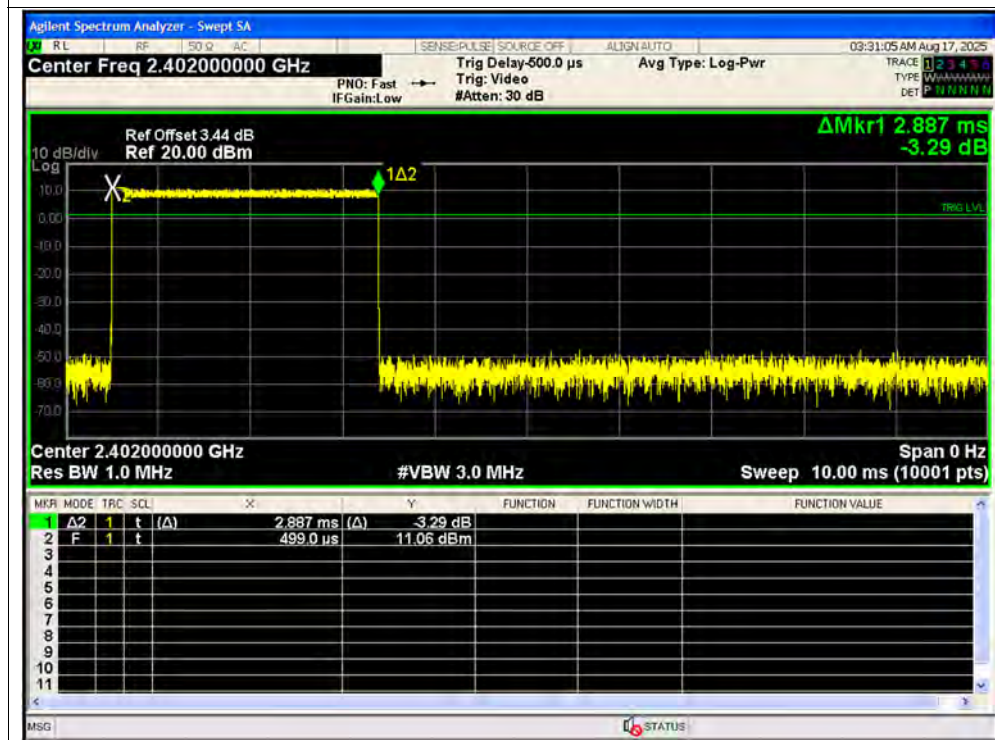
Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



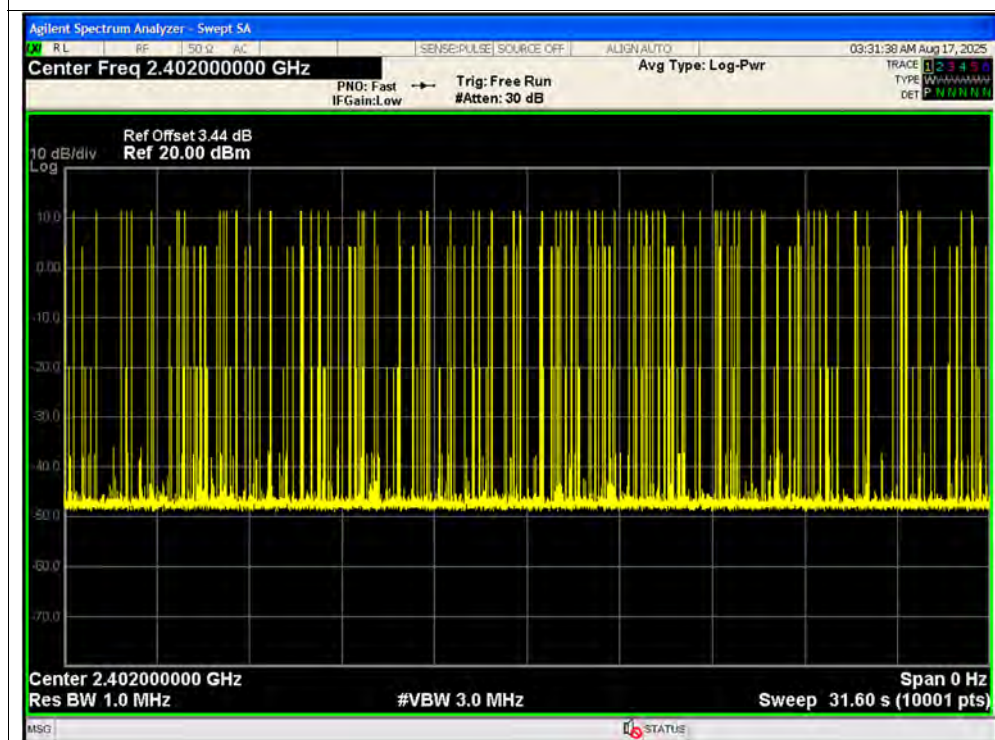
Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



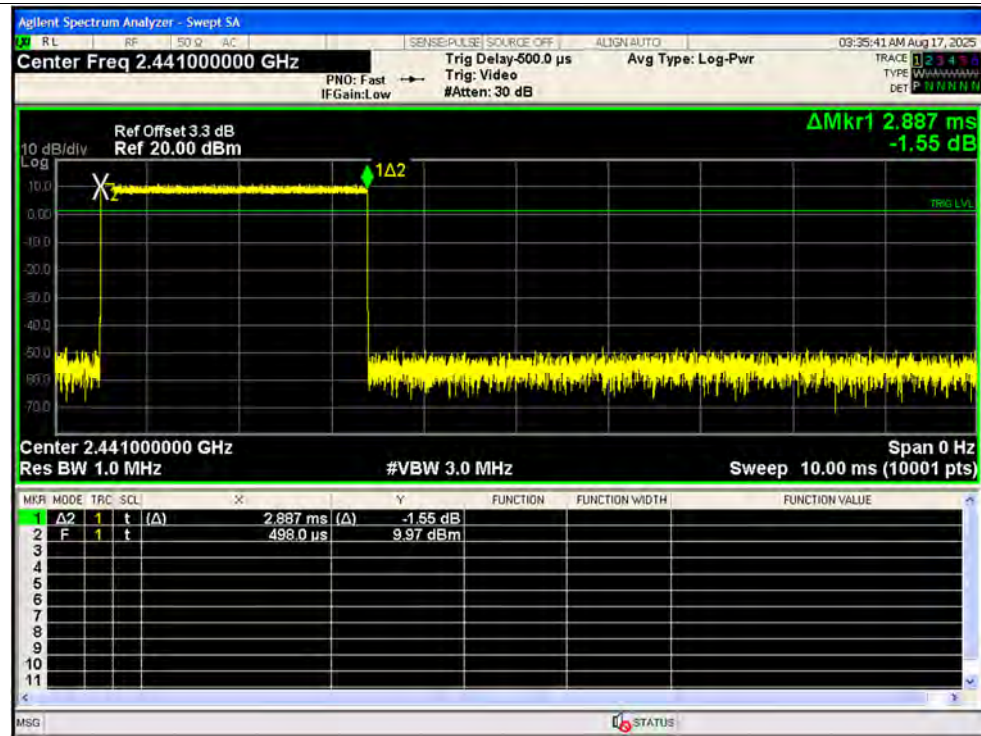
Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



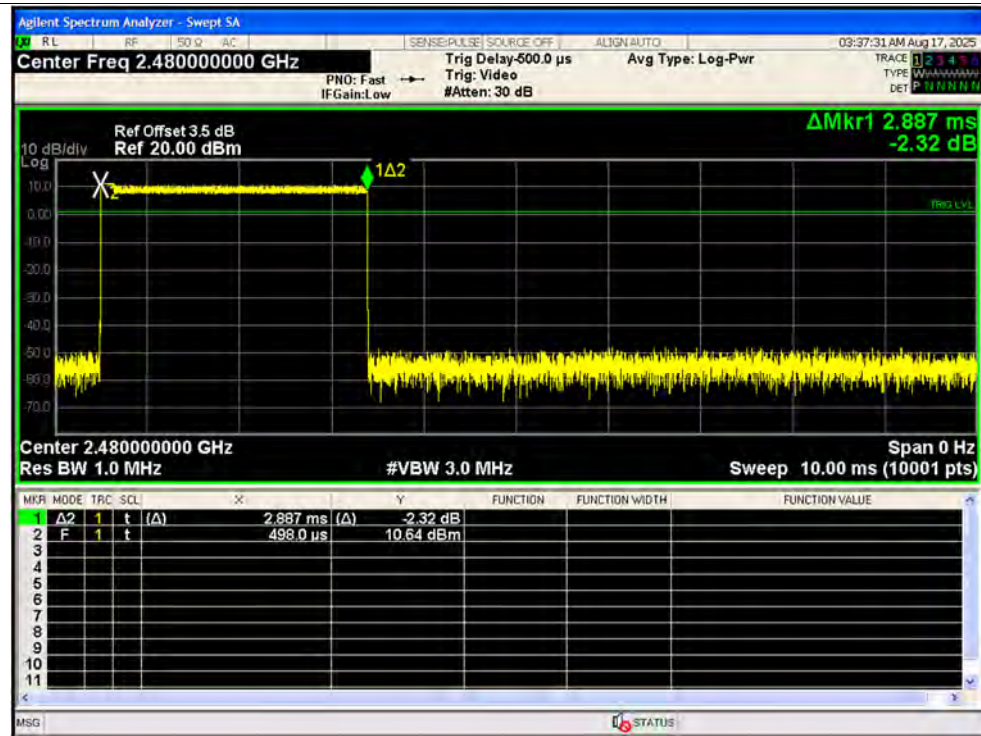
Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



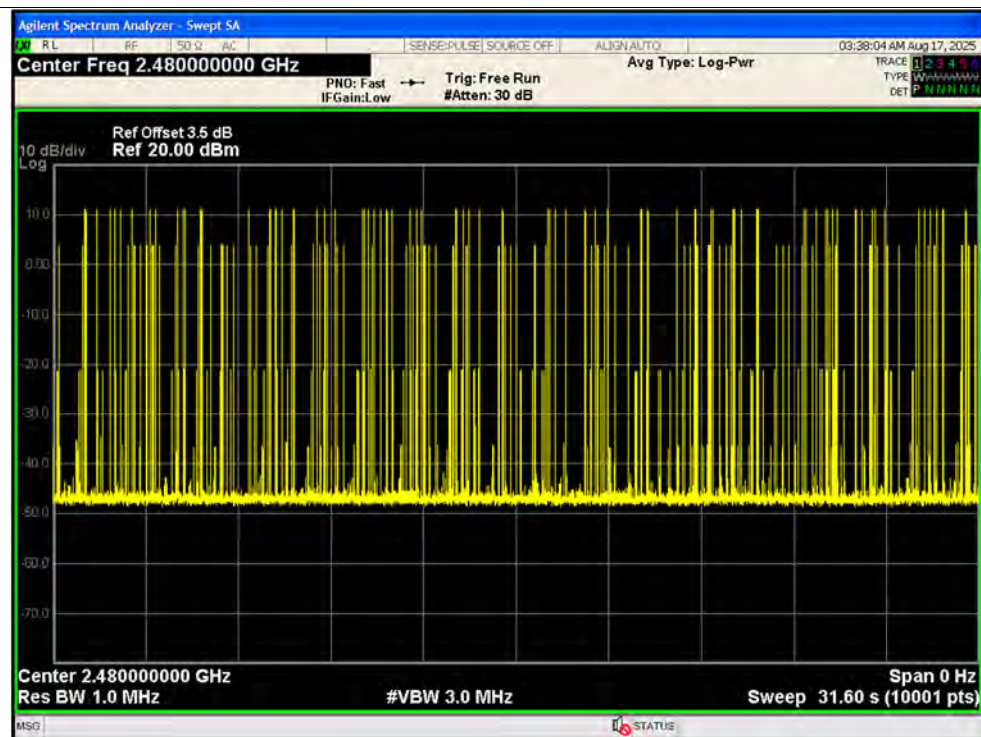
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



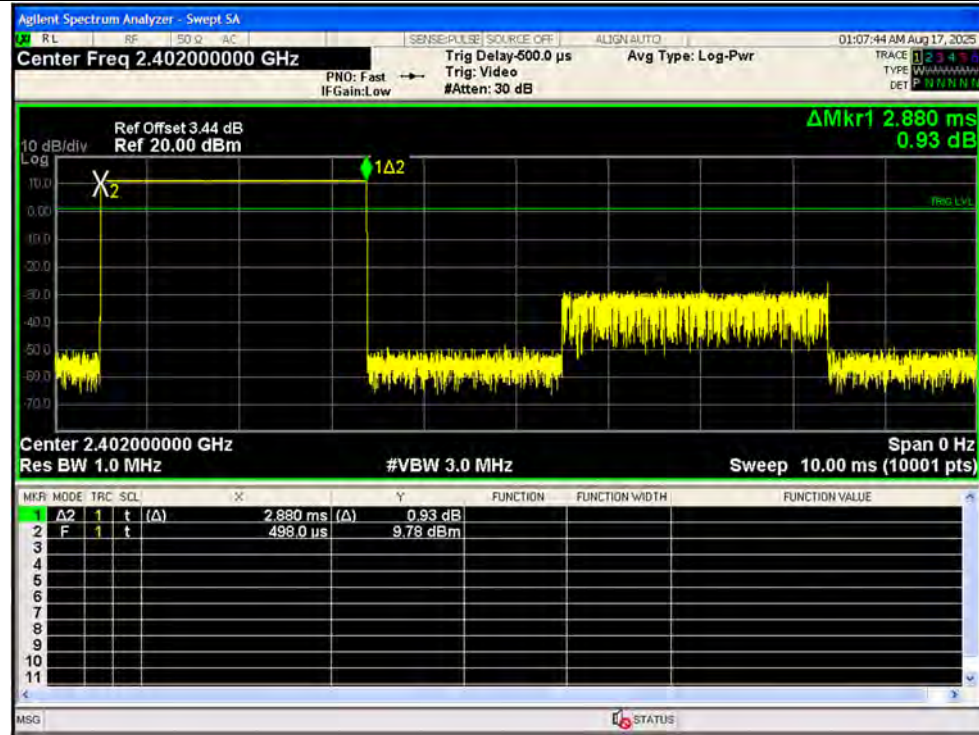
Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated



Right

Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

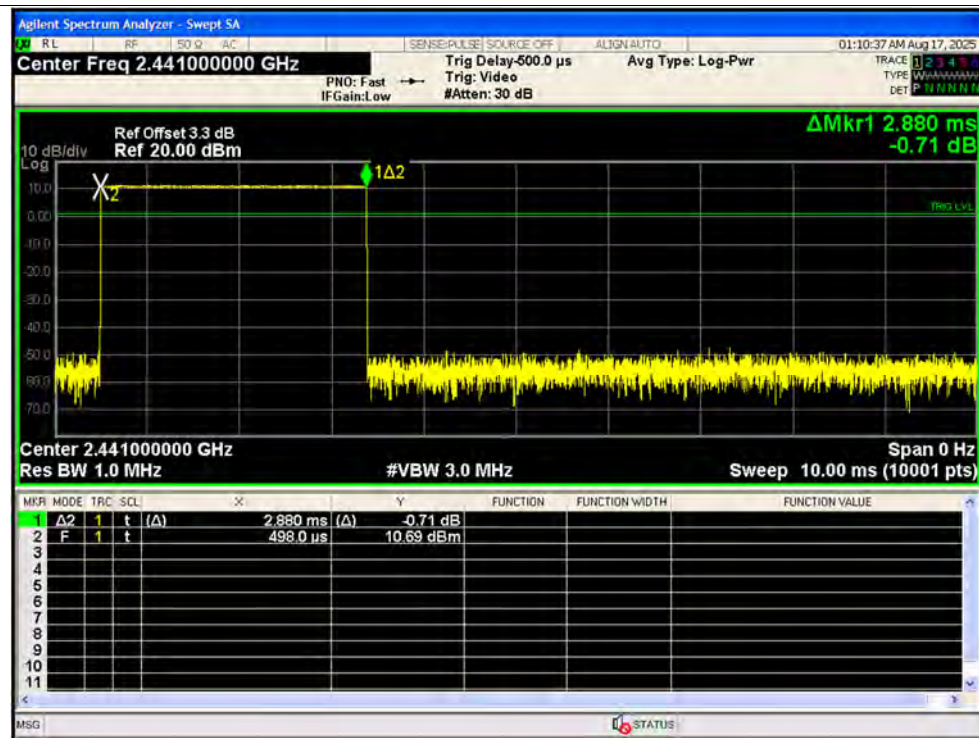


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

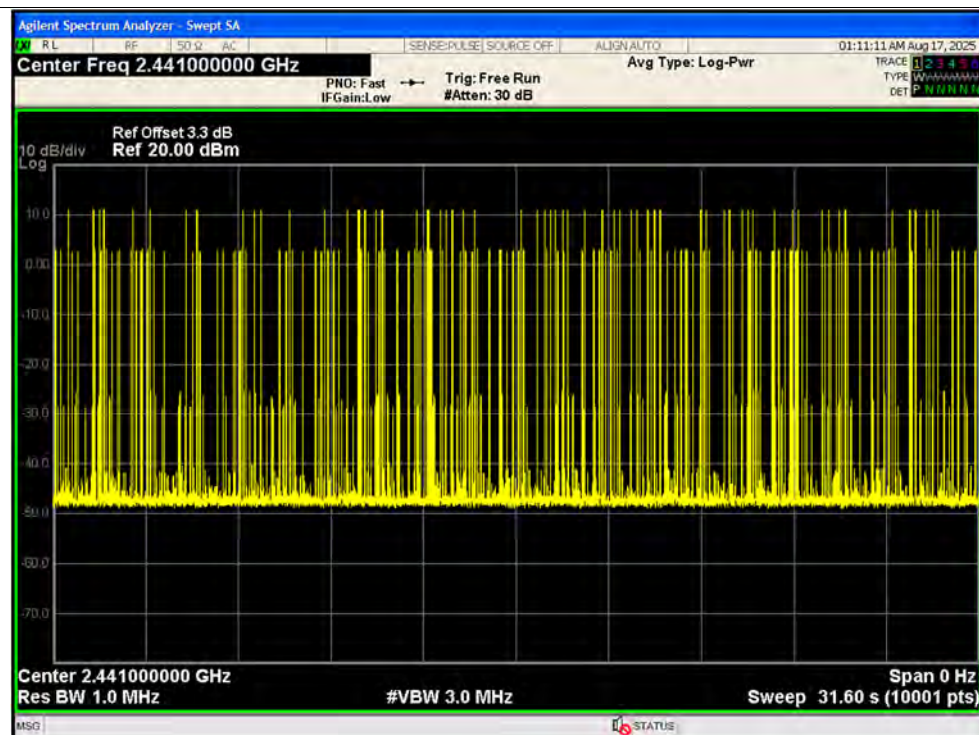




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

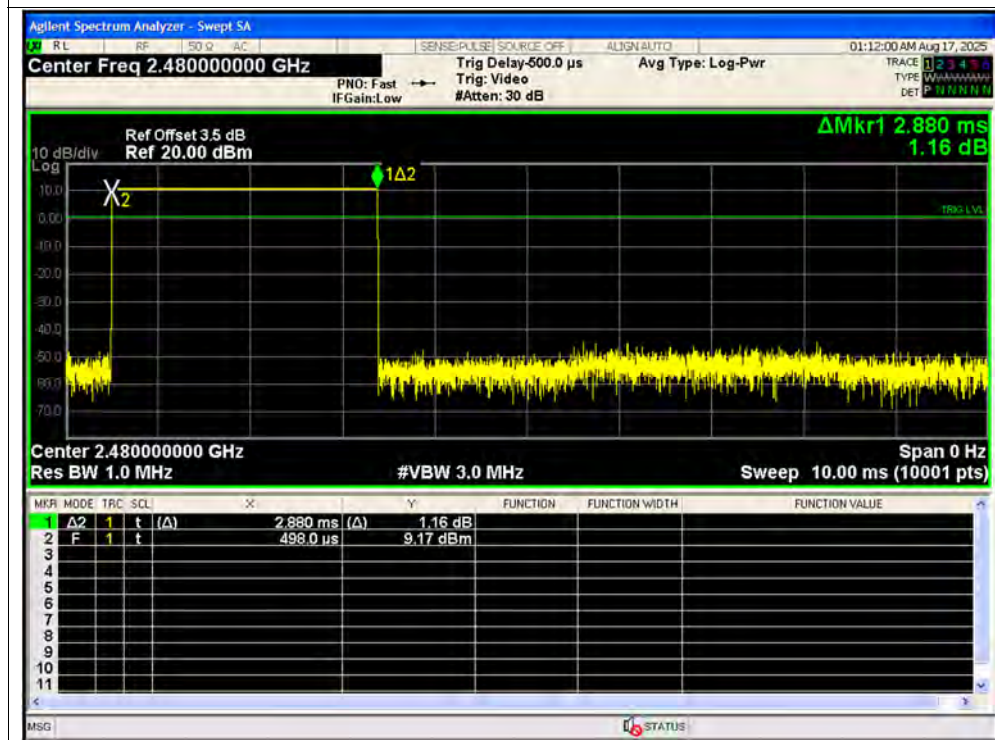


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

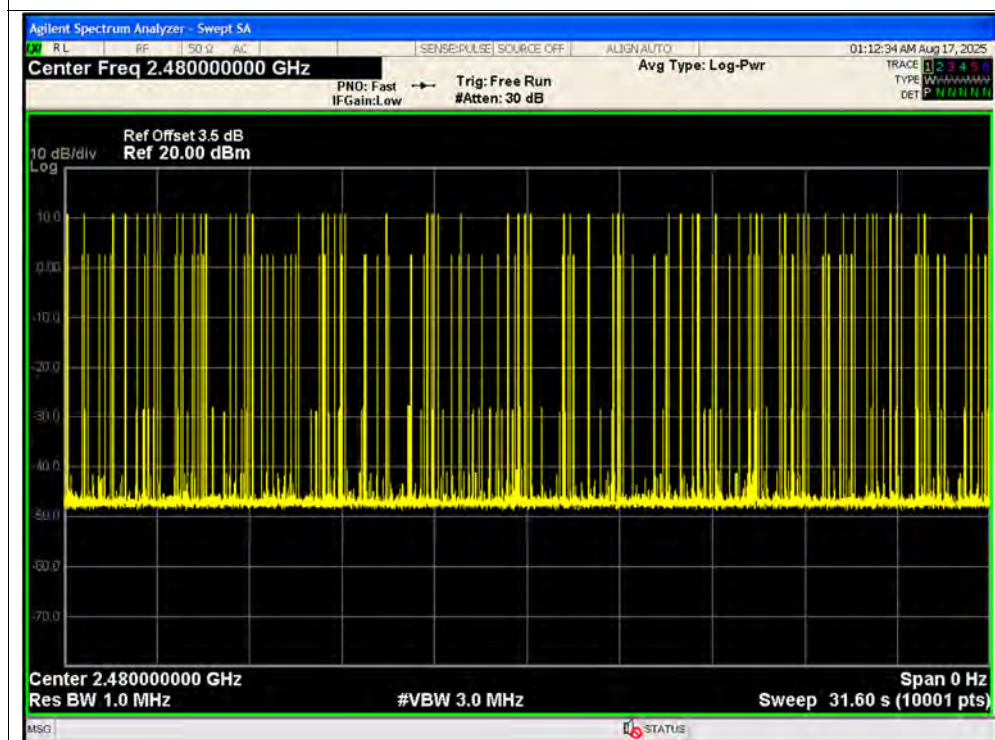




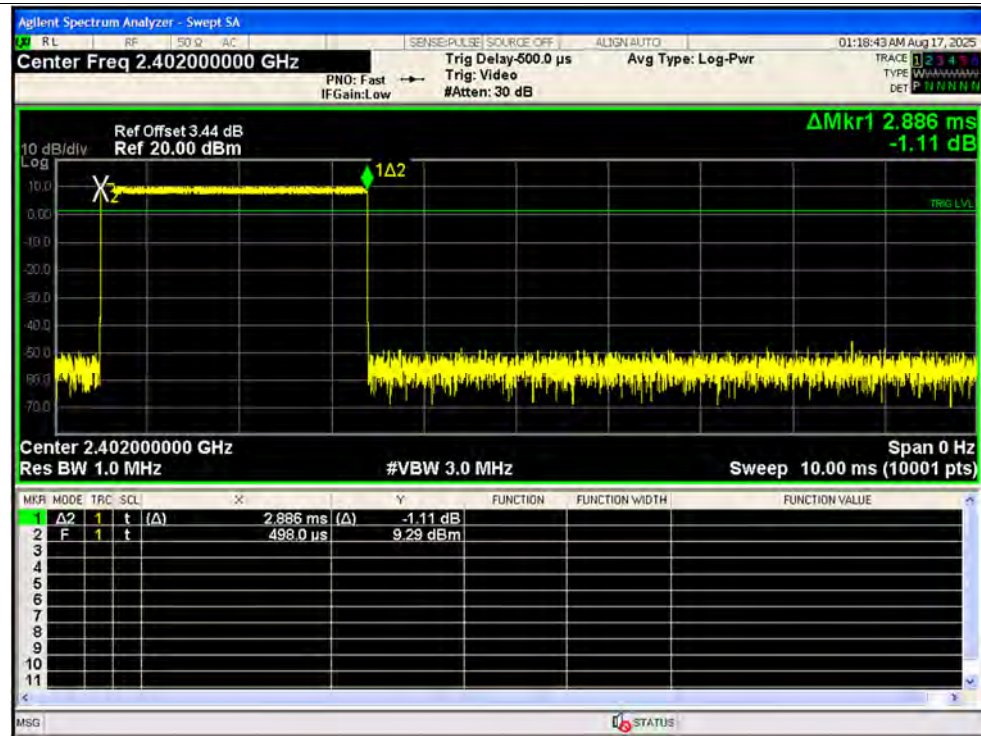
Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



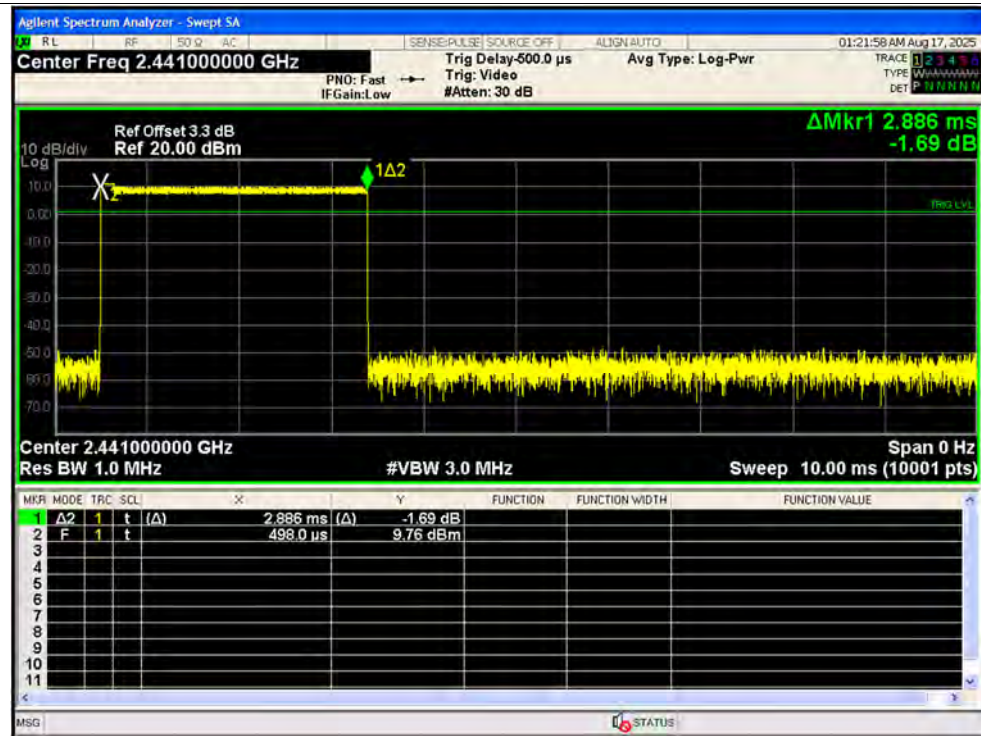
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



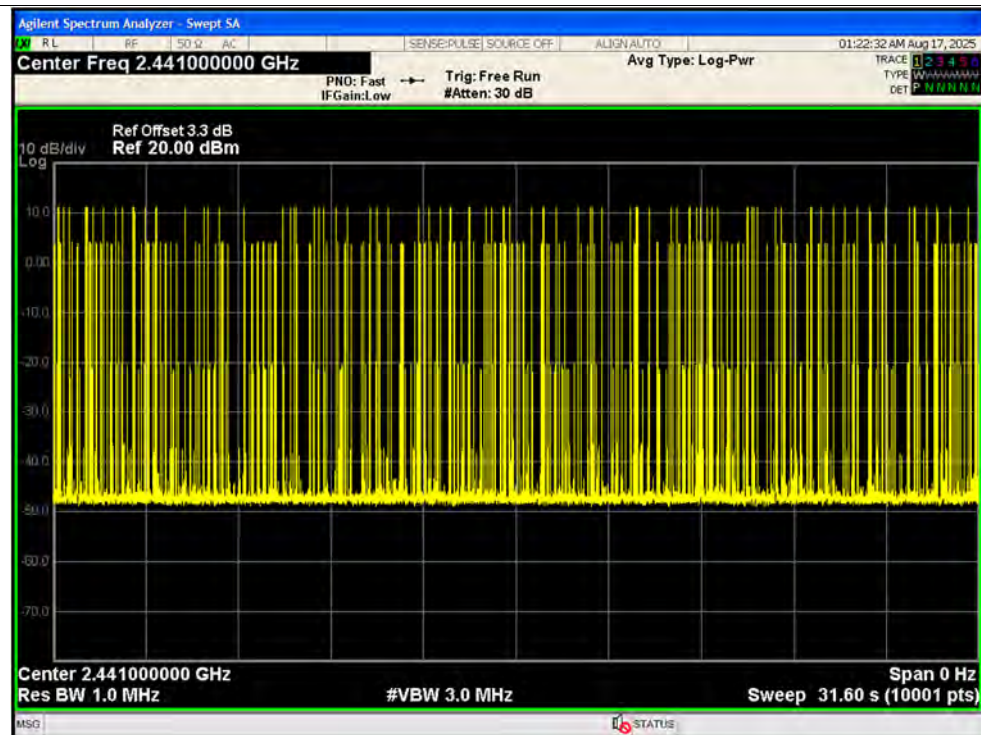
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

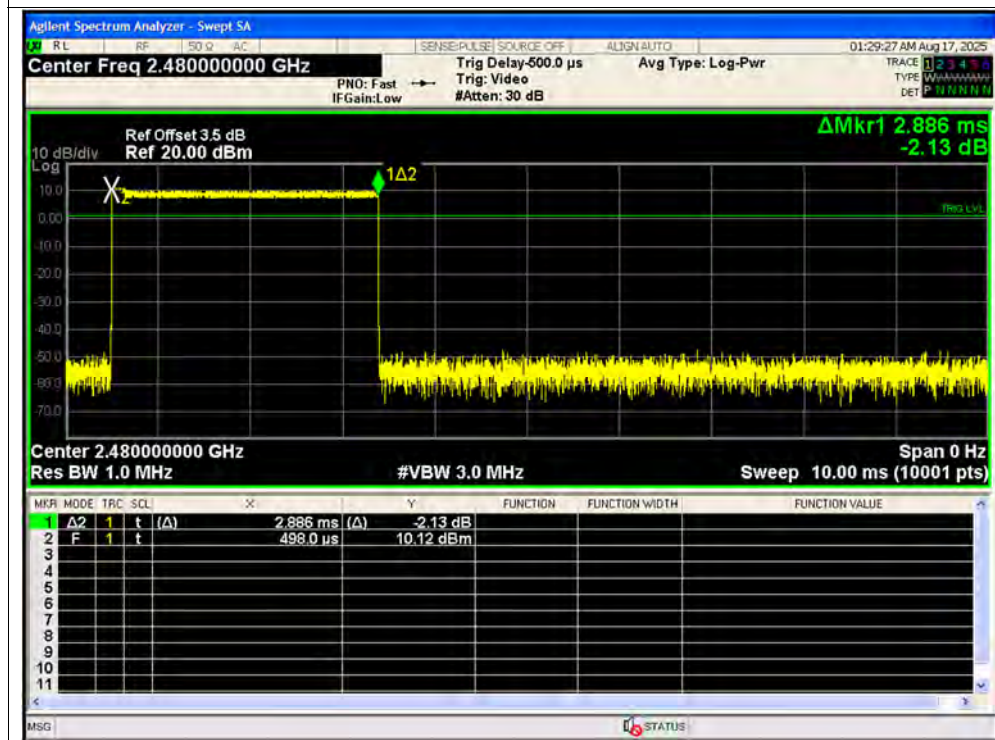


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

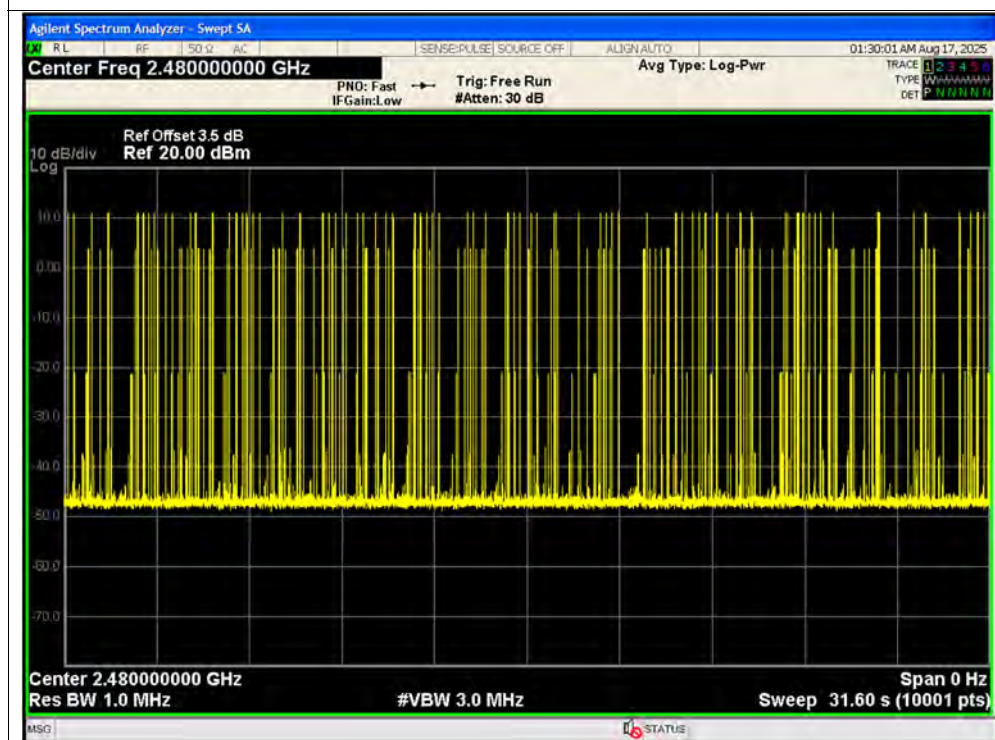




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

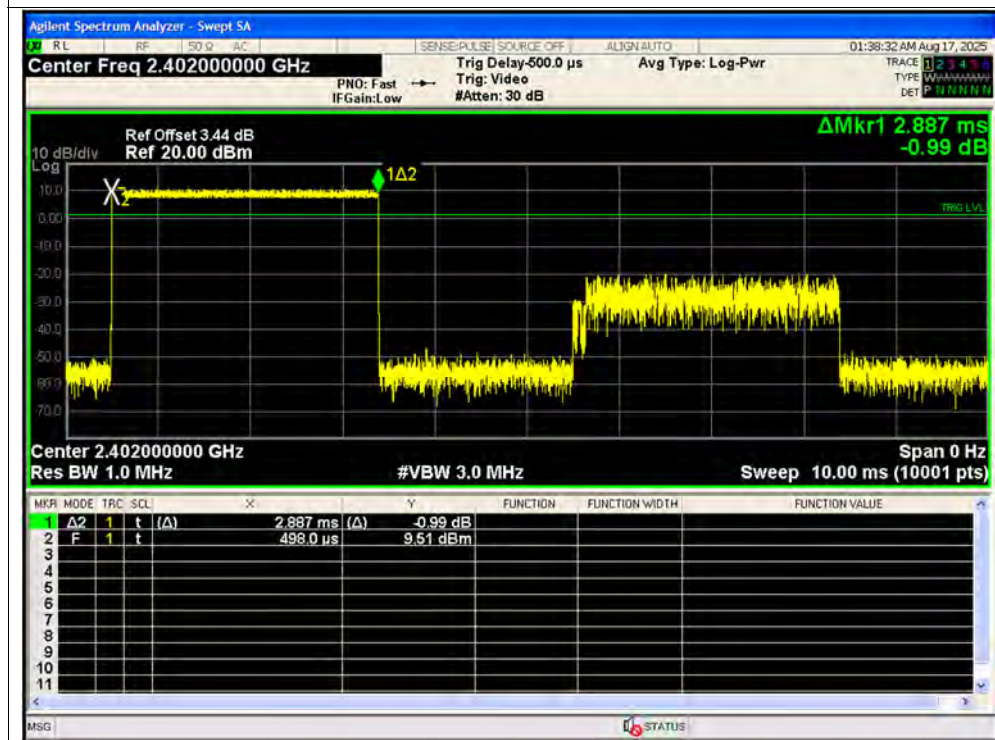


Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated

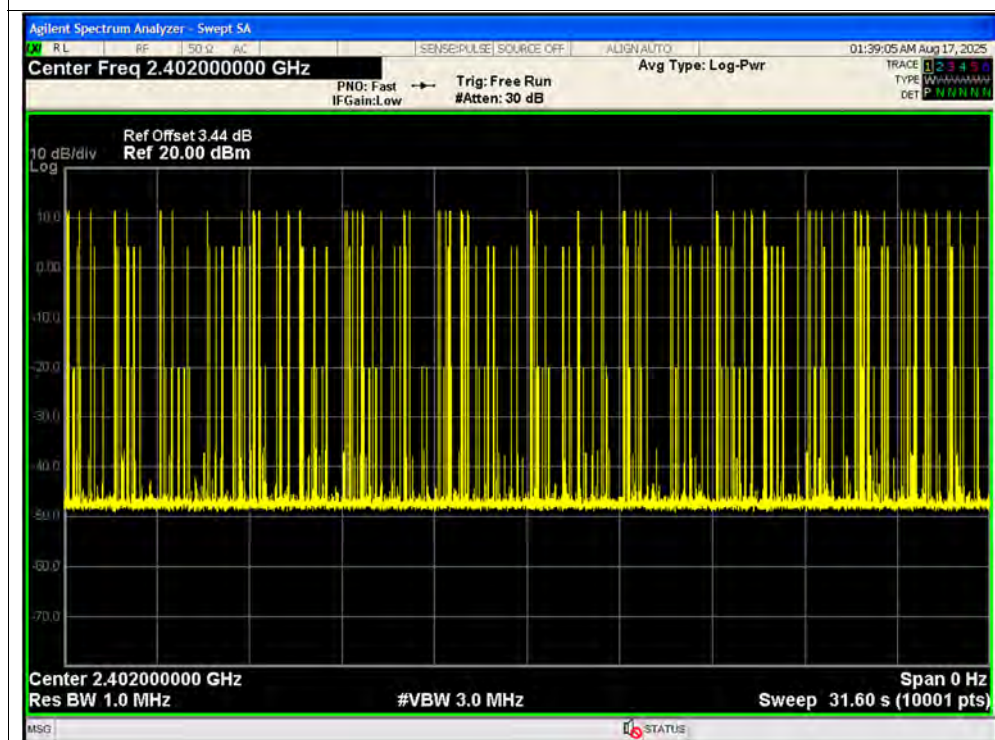




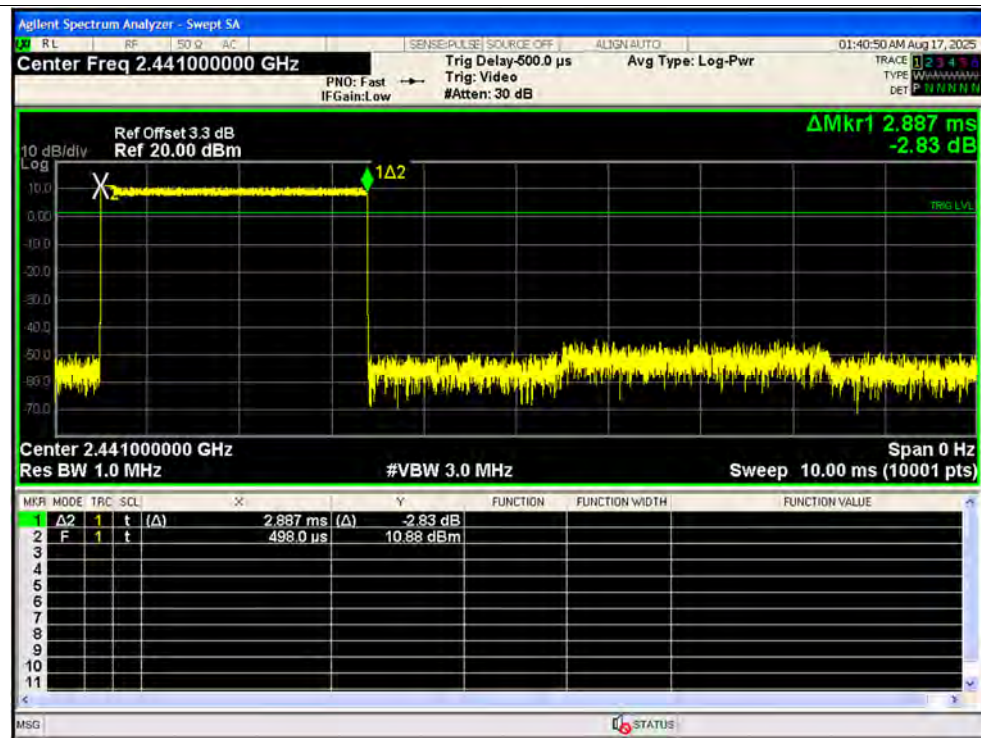
Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



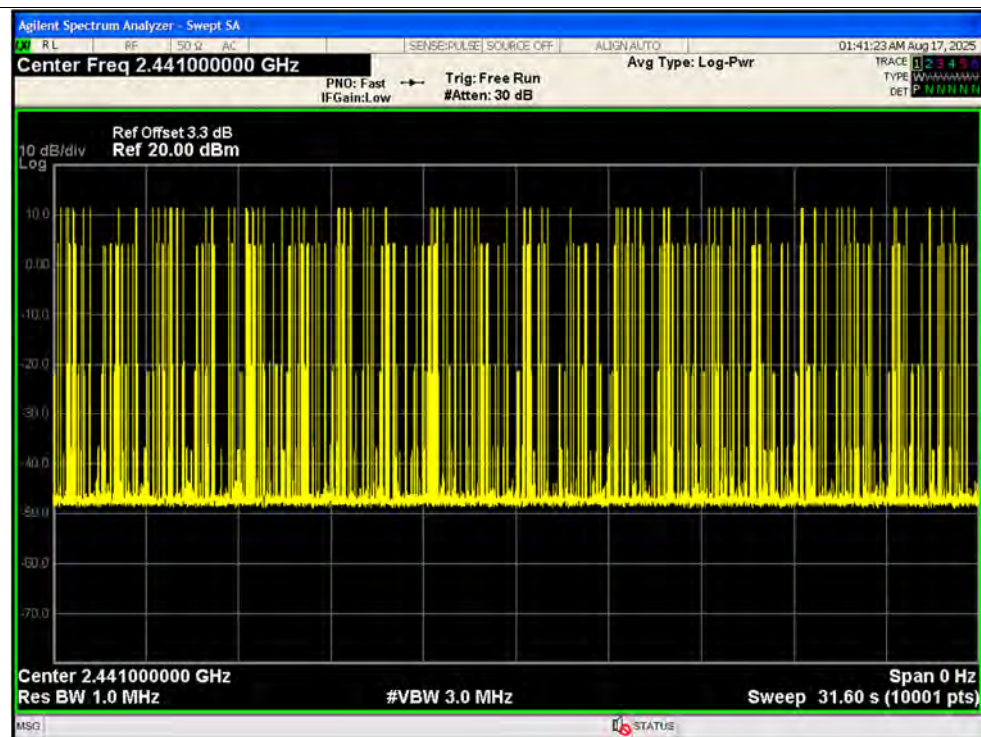
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



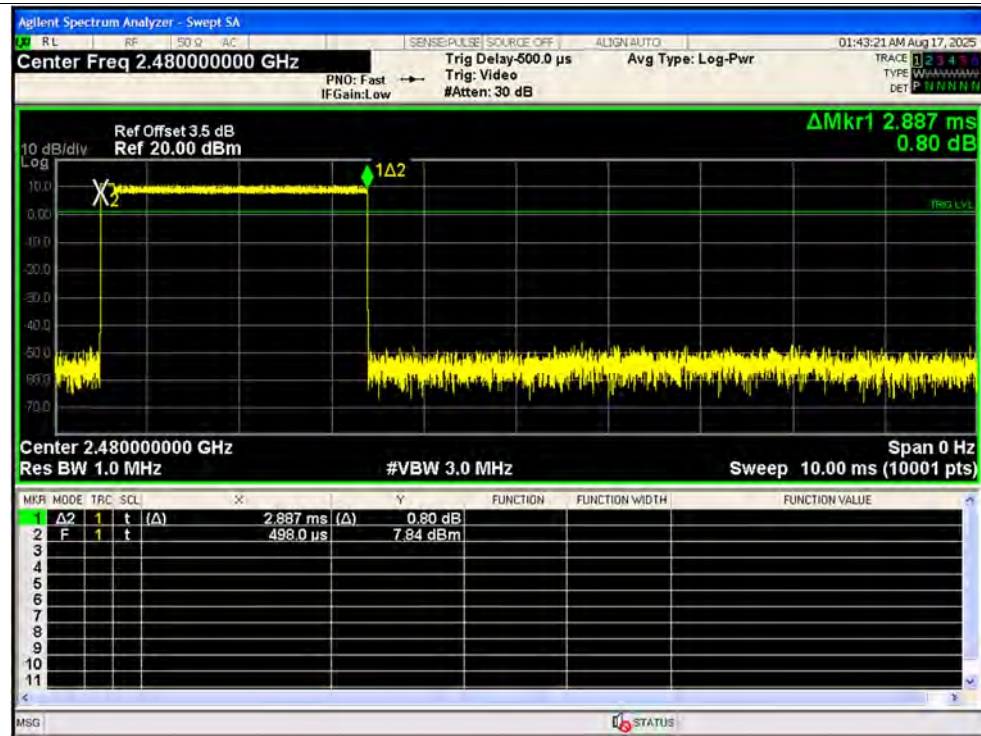
Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated



**A.8. Conducted Spurious Emissions****Left**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-52.34	-20	Pass
NVNT	1-DH5	2441	Ant1	-51.78	-20	Pass
NVNT	1-DH5	2480	Ant1	-51.2	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.76	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.92	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.16	-20	Pass
NVNT	3-DH5	2402	Ant1	-51.97	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.12	-20	Pass
NVNT	3-DH5	2480	Ant1	-51.78	-20	Pass

Right

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-51.67	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.55	-20	Pass
NVNT	1-DH5	2480	Ant1	-51.07	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.32	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.47	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.27	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.74	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.98	-20	Pass
NVNT	3-DH5	2480	Ant1	-51.7	-20	Pass

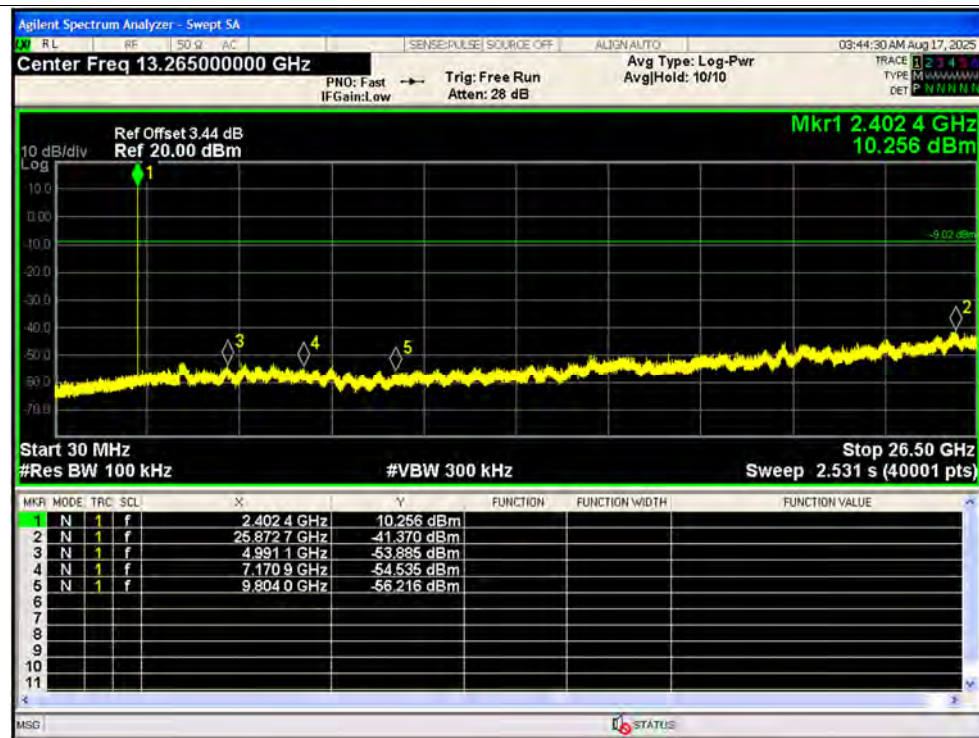
Left

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



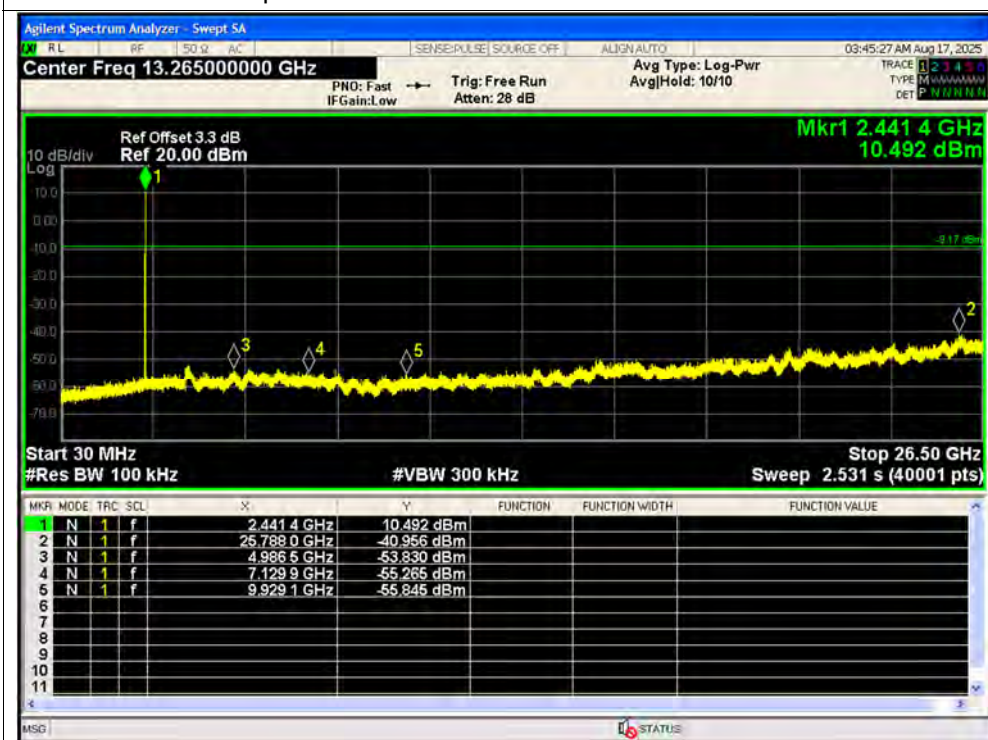
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



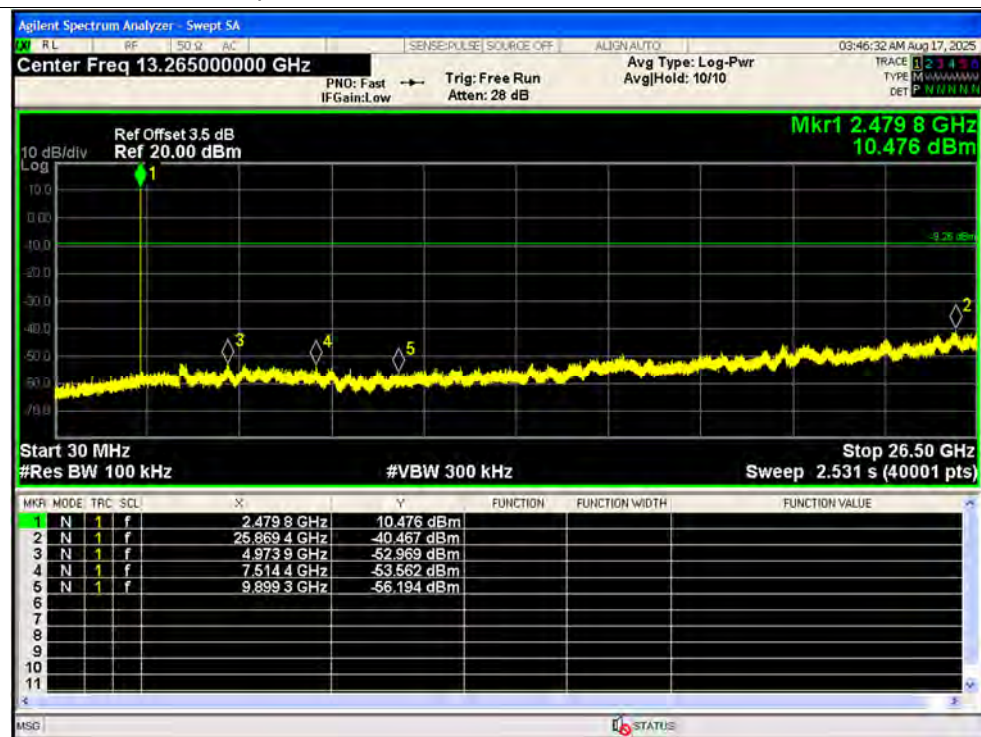
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



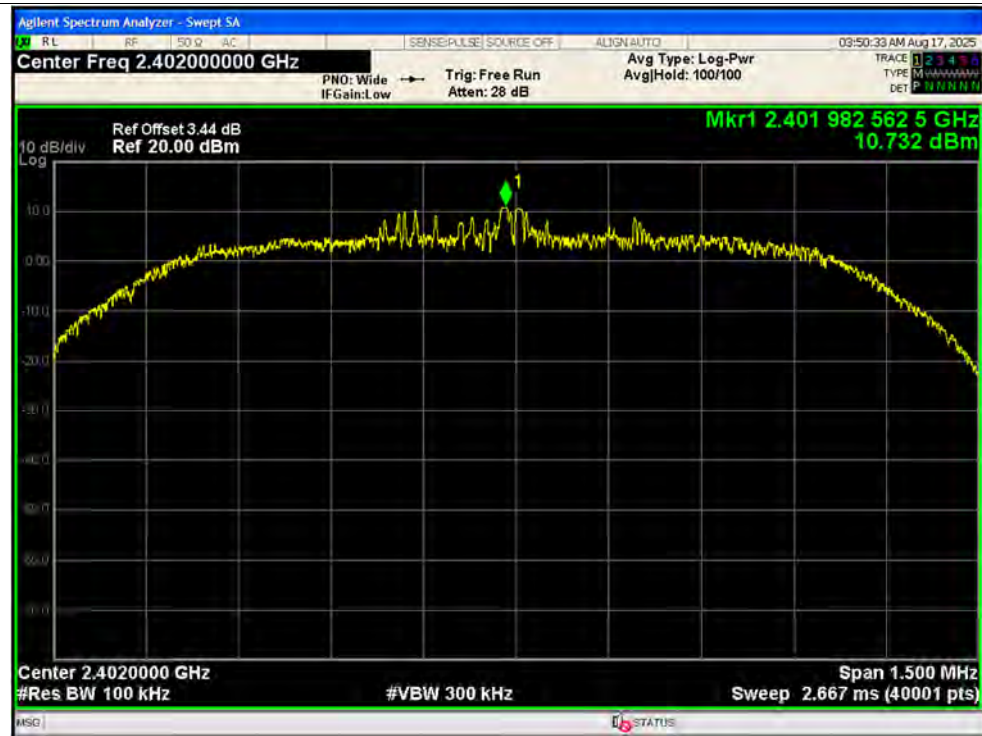
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



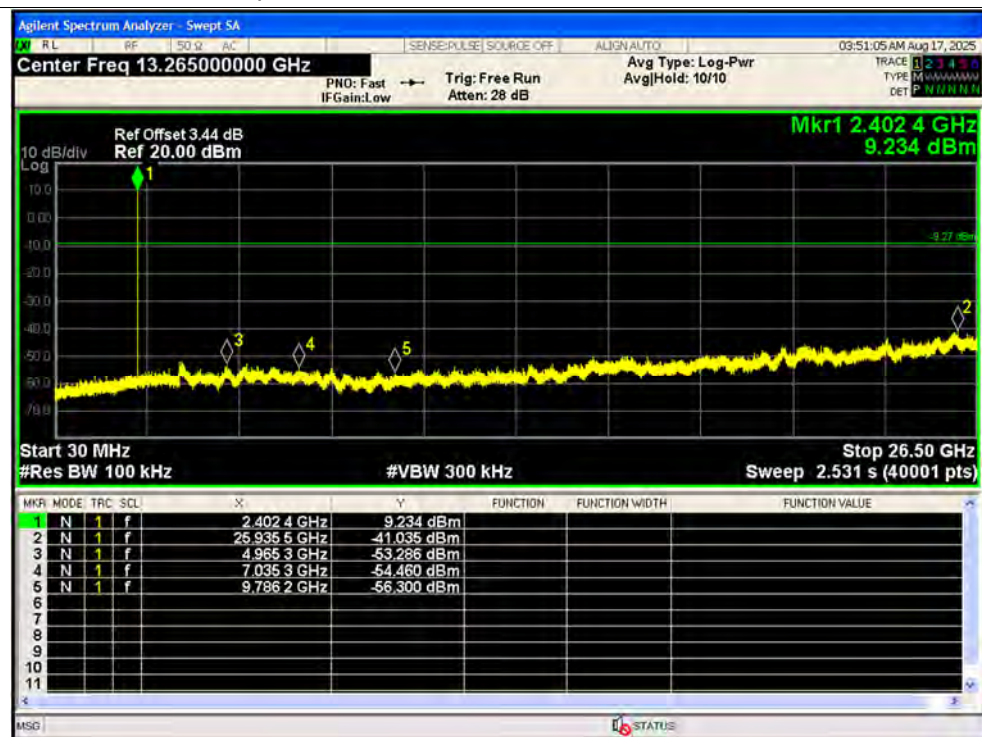
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



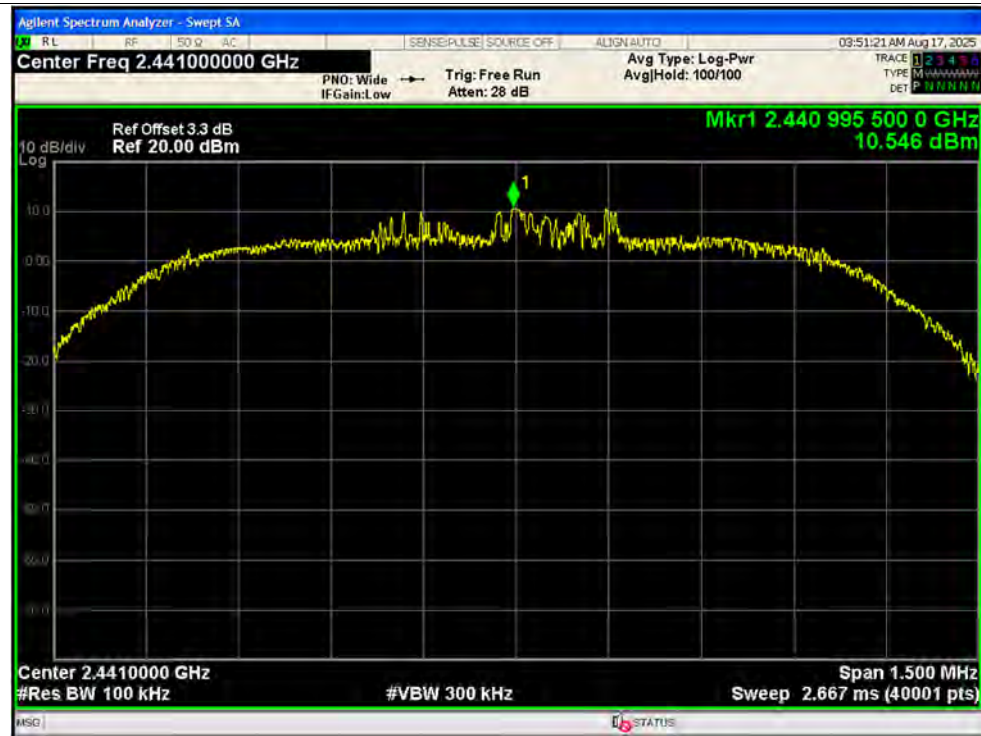
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



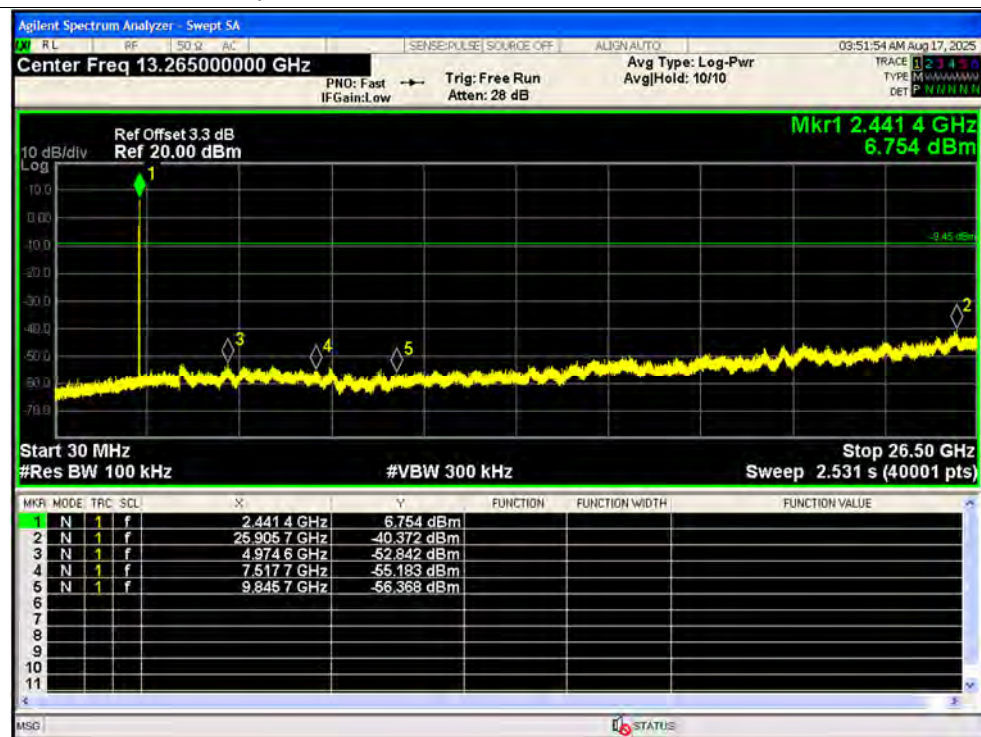
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



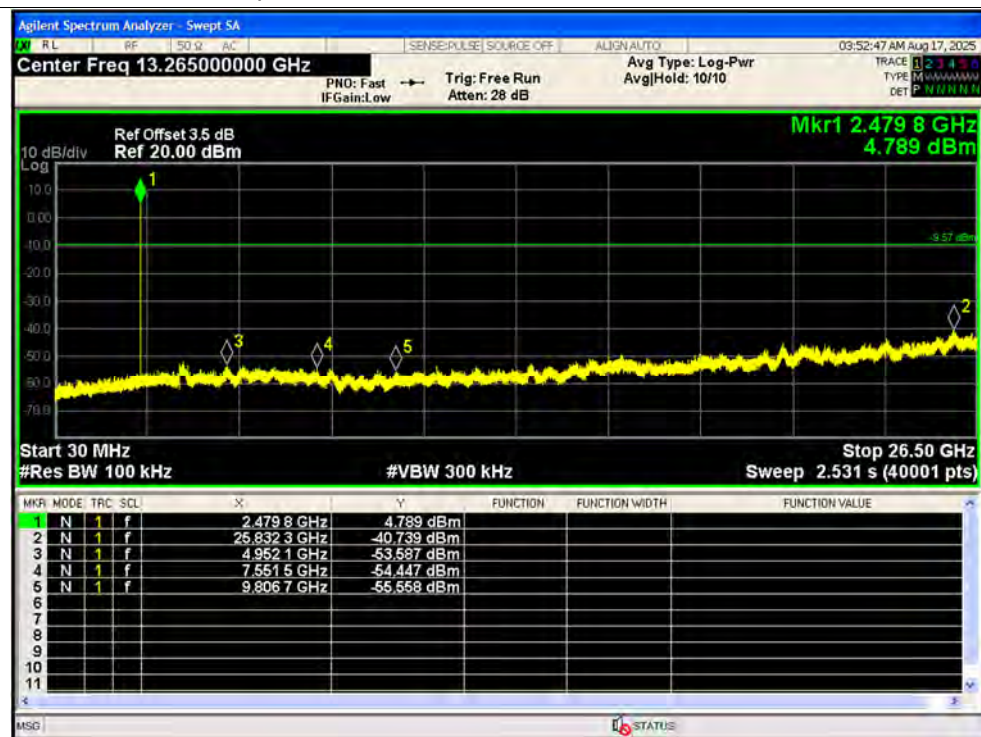
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



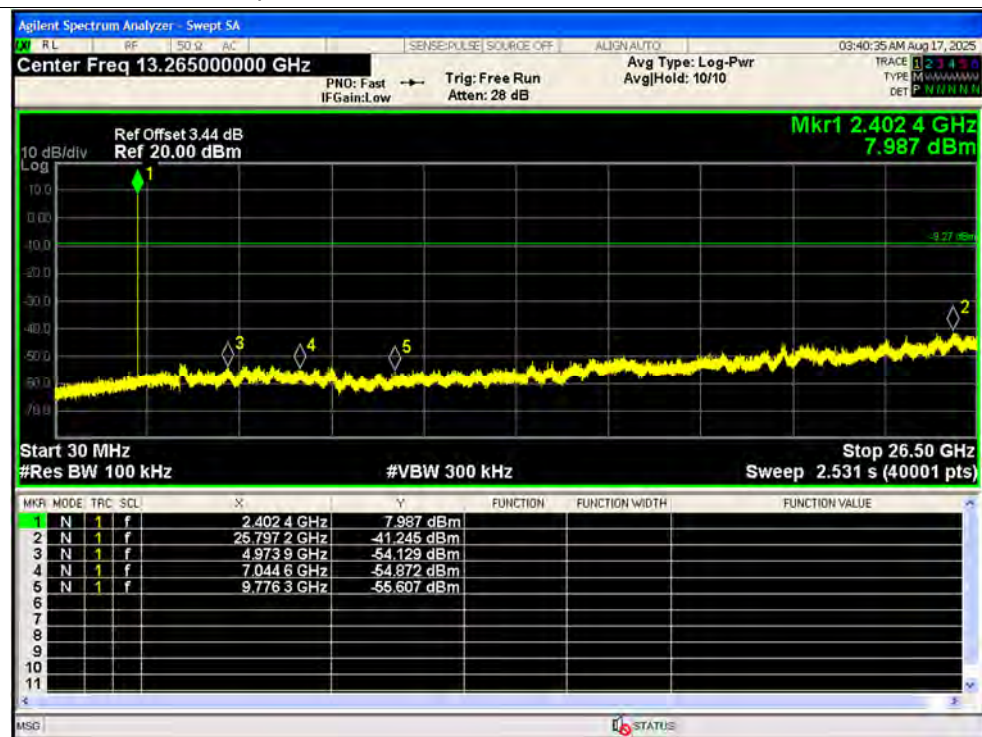
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



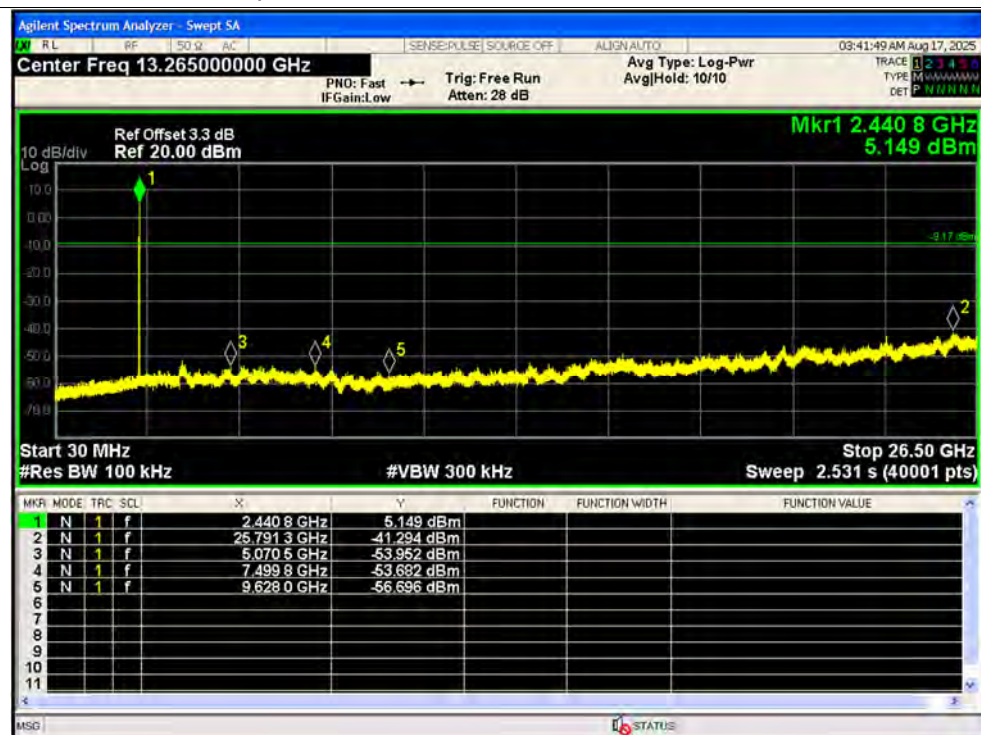
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



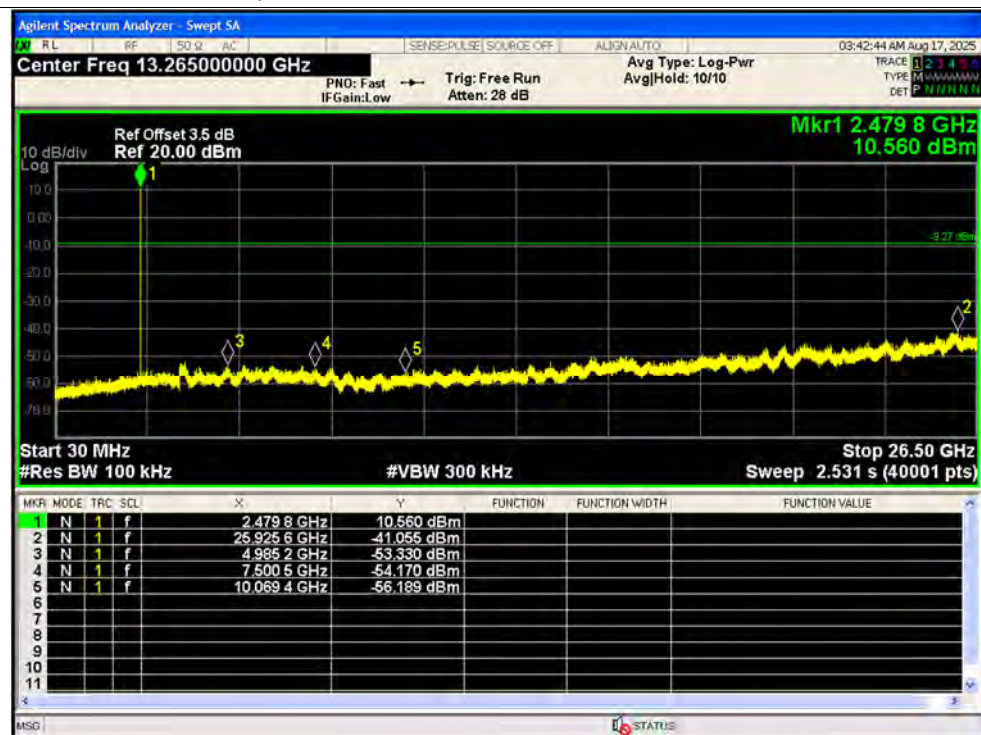
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



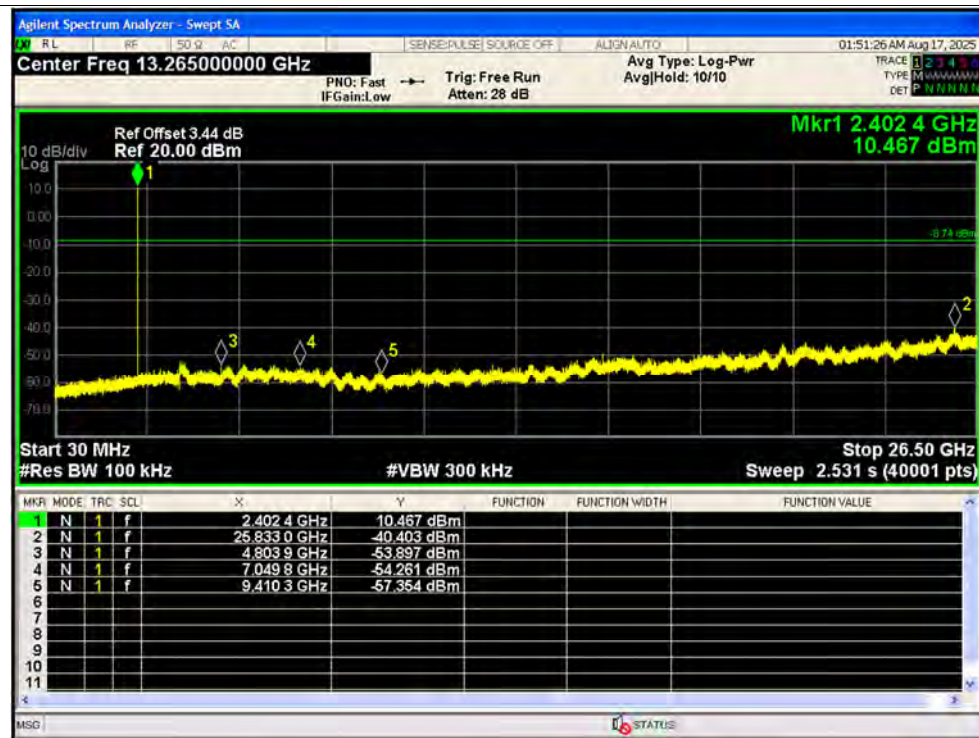
Right

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



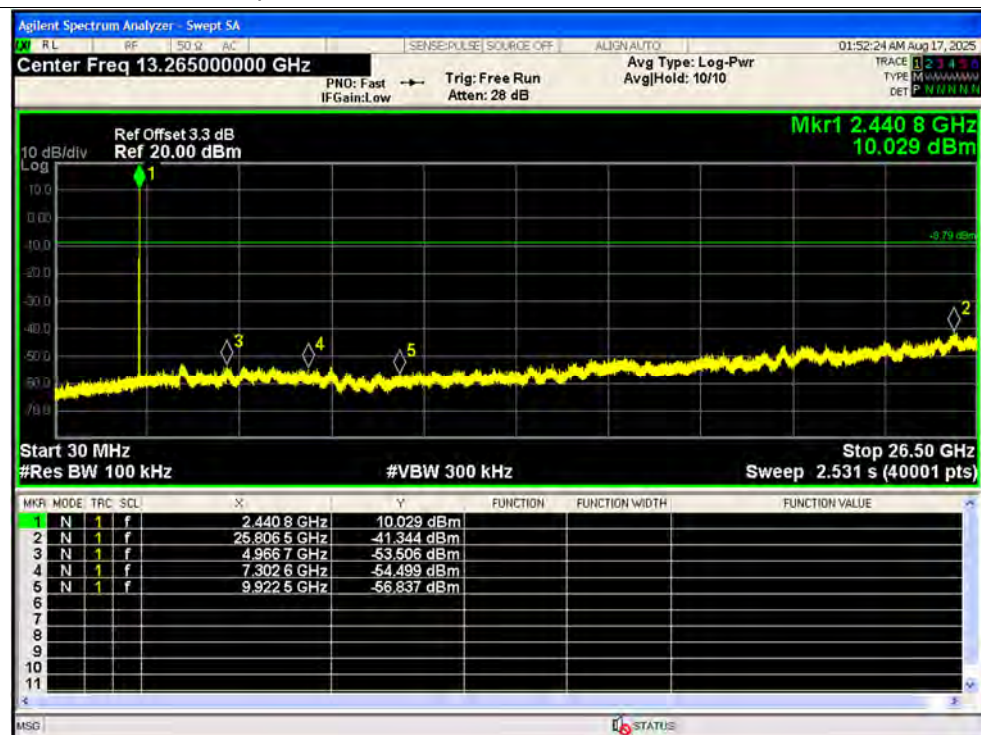
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



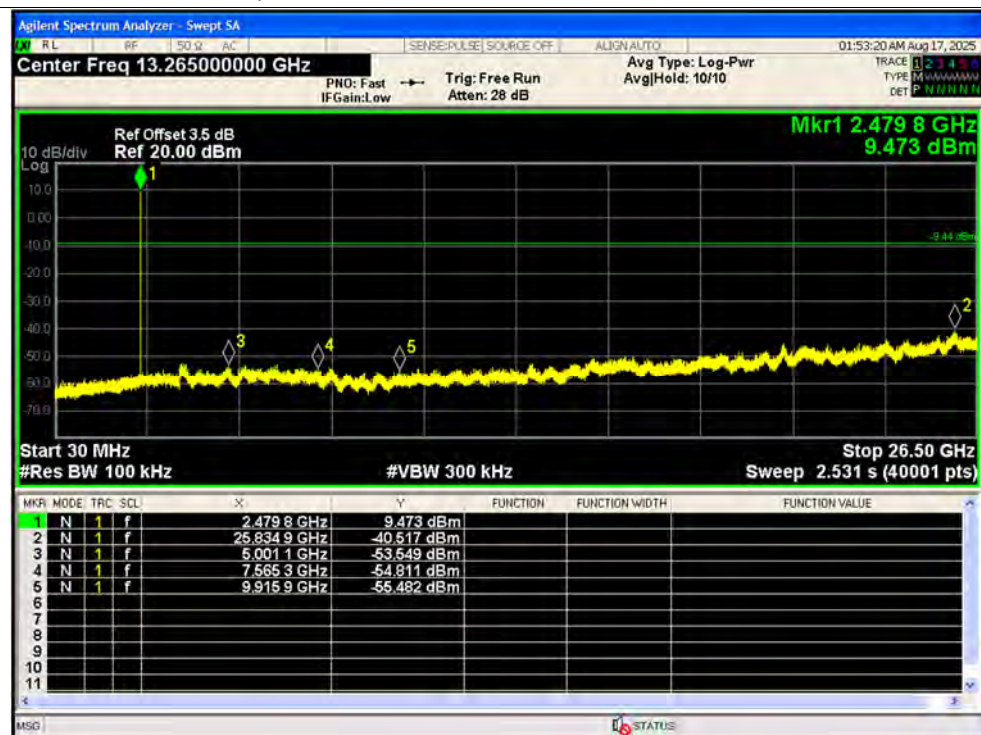
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



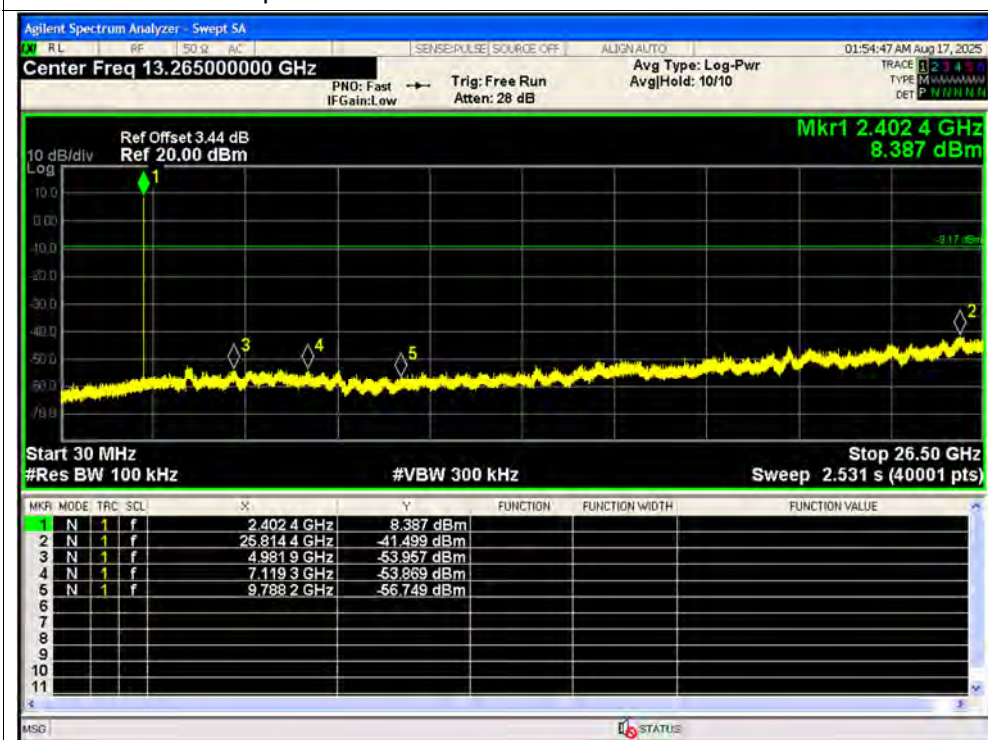
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



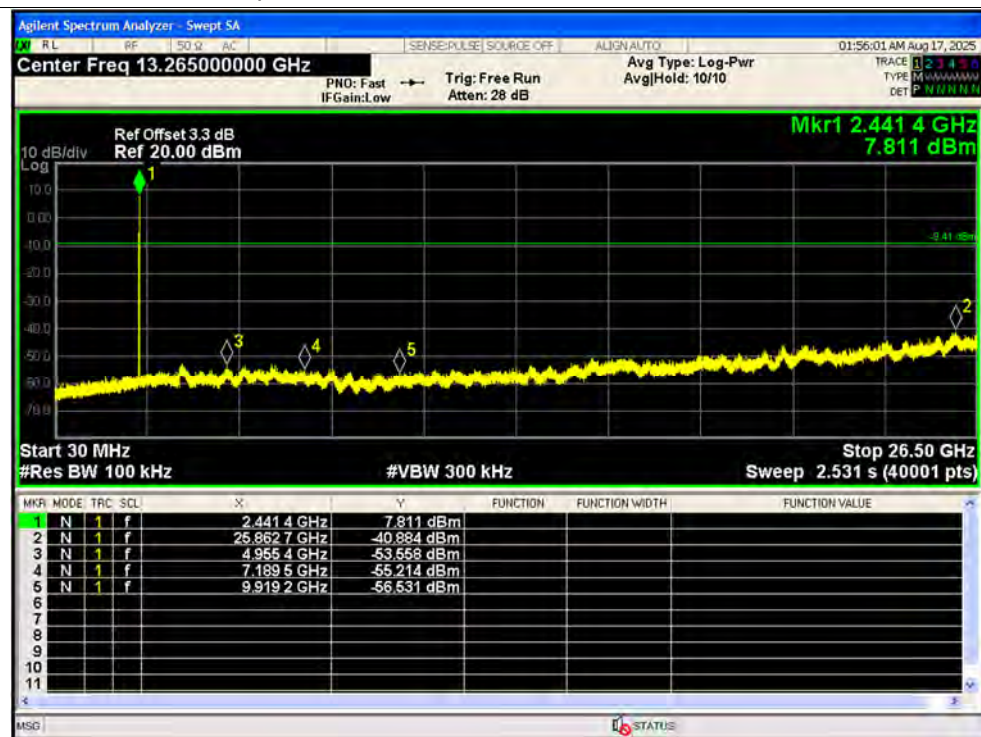
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



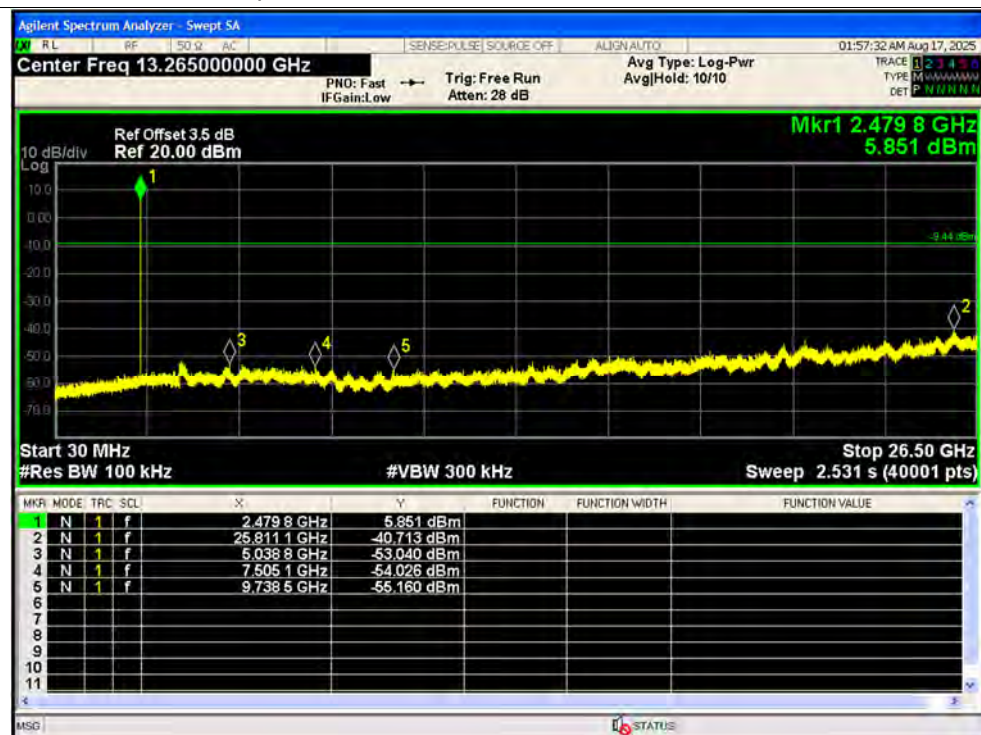
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



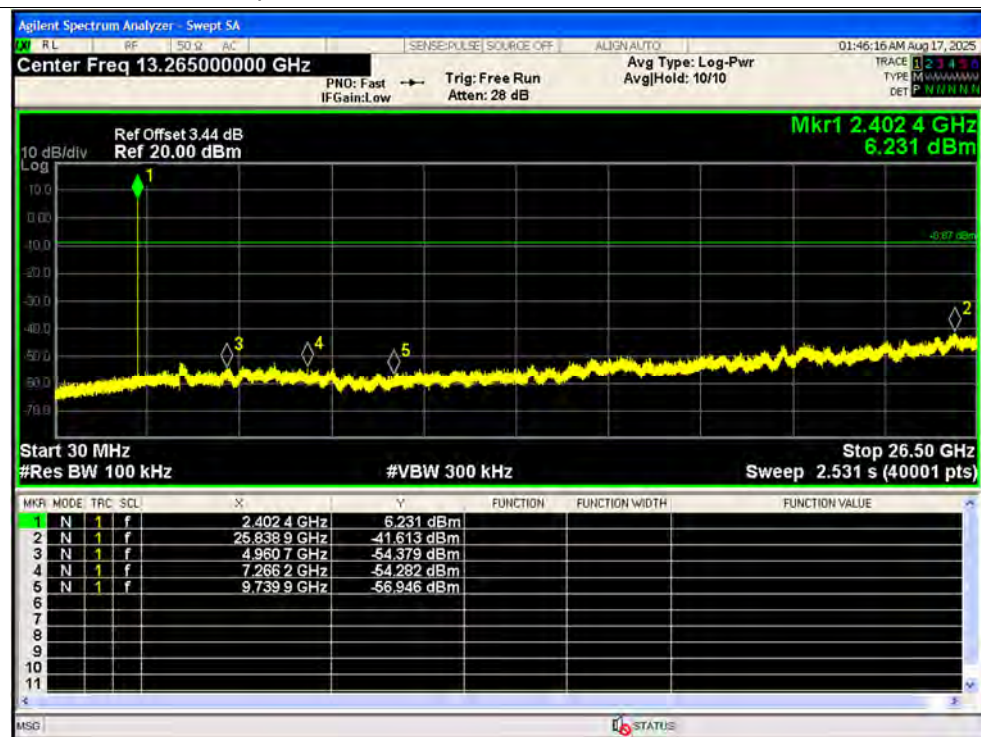
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



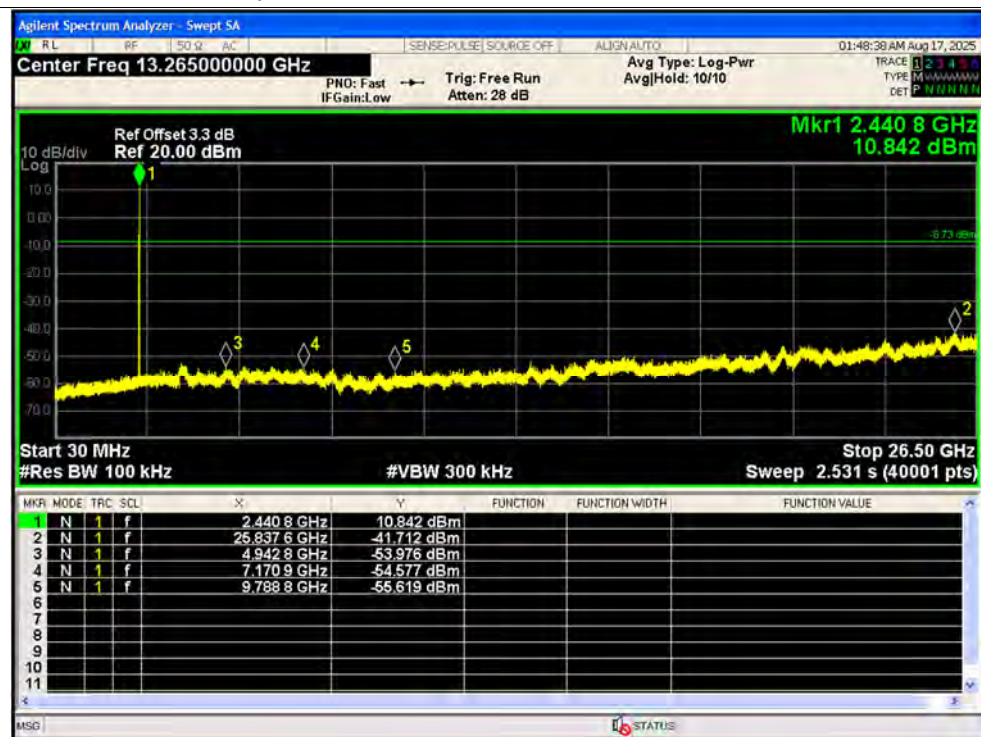
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



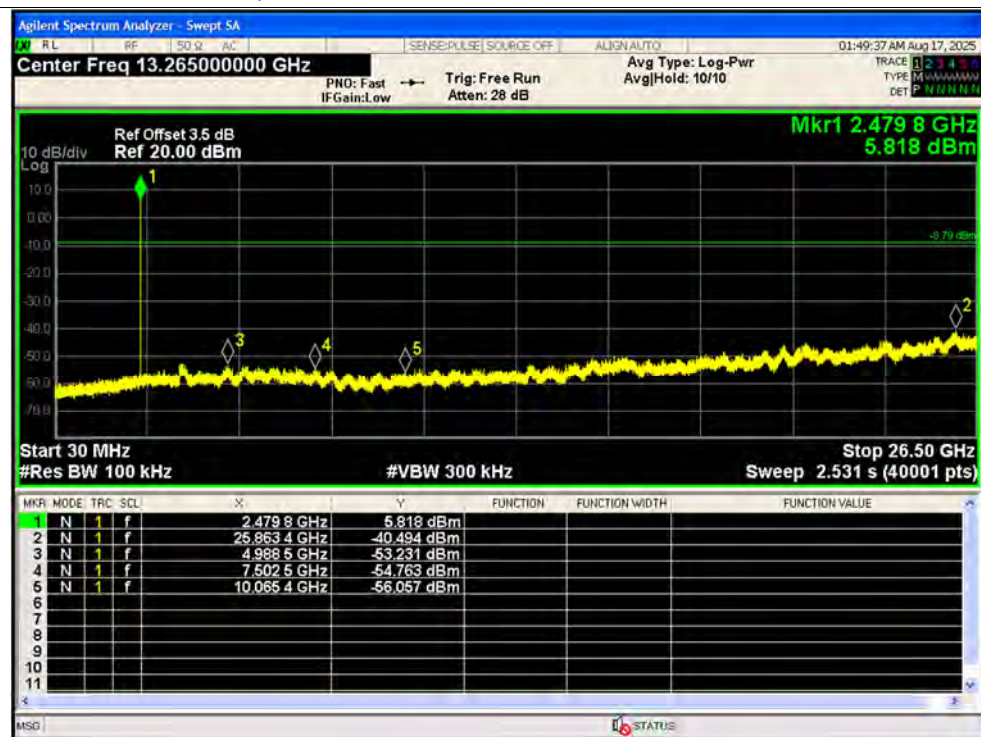
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



**A.9. Band Edge****Left**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.57	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-63.81	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.1	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-64.09	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.96	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-64.66	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-65.3	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-63.57	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-65.3	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-65.24	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-65.32	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-65.45	-20	Pass

Right

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.69	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-62.43	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.04	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-64.13	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.27	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-64.81	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-65.19	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-62.54	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-66	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-65.3	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-65.11	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-66.1	-20	Pass

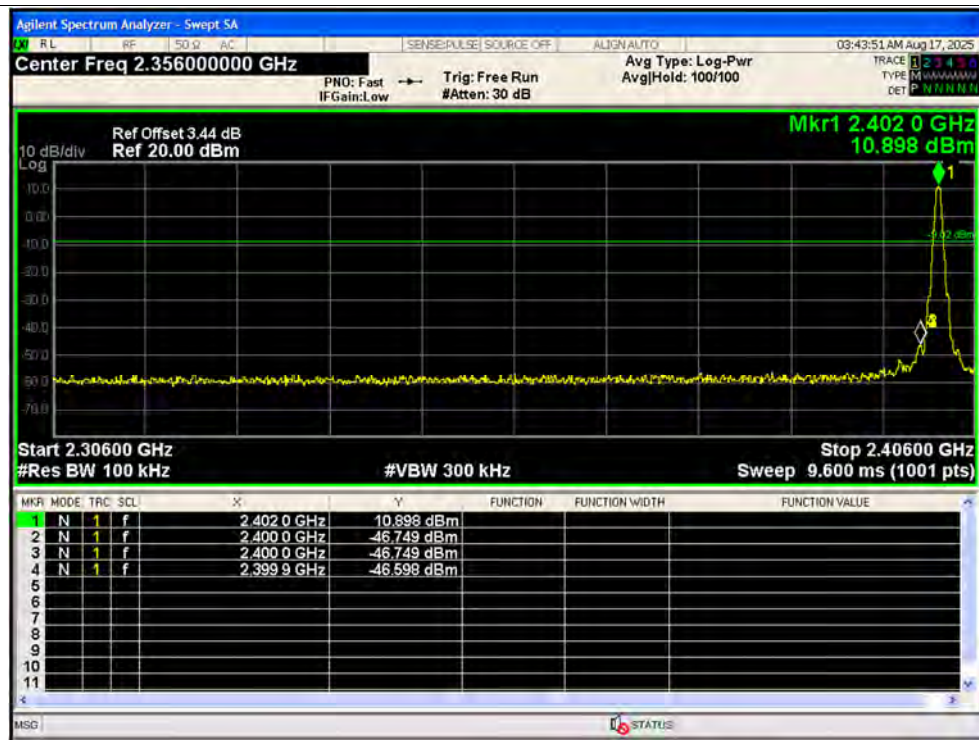
Left

Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



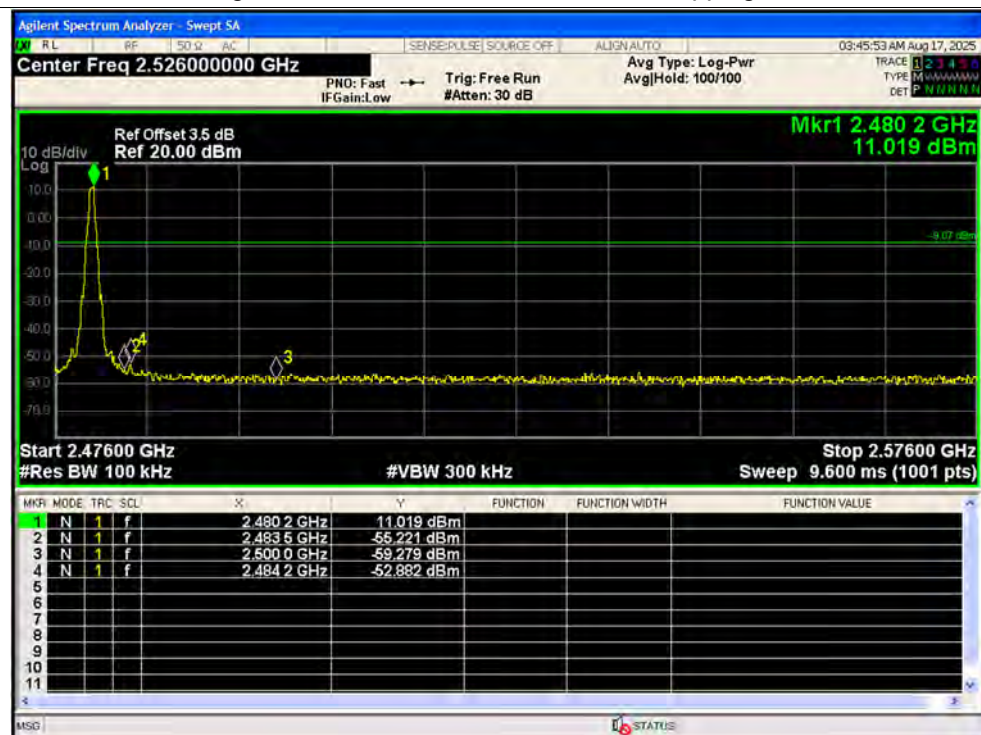
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



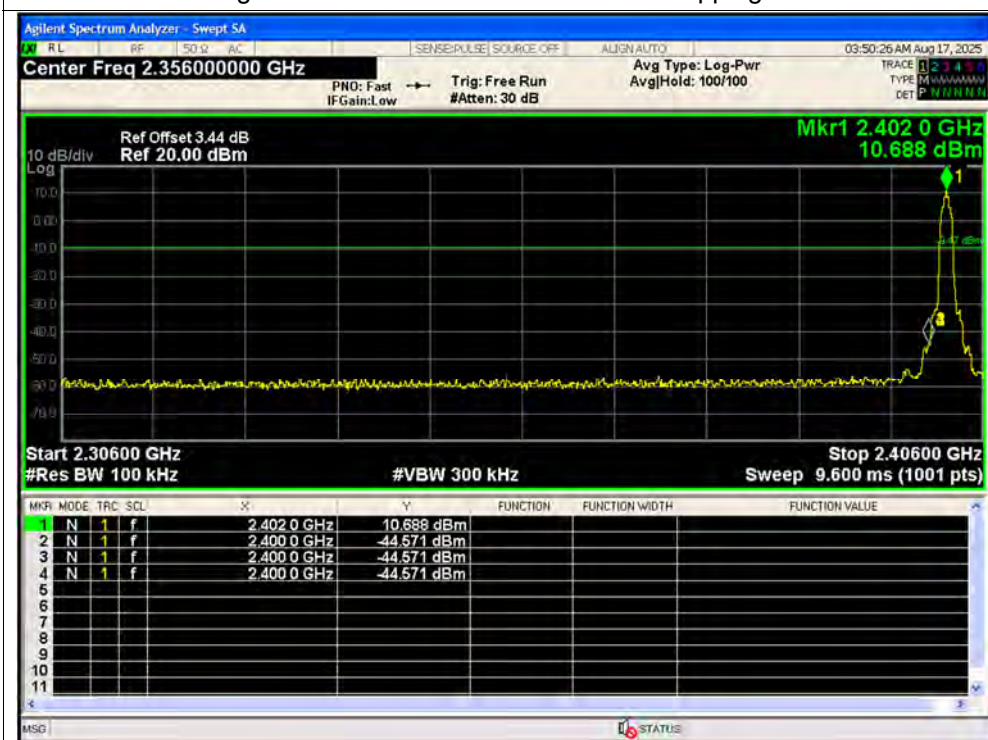
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



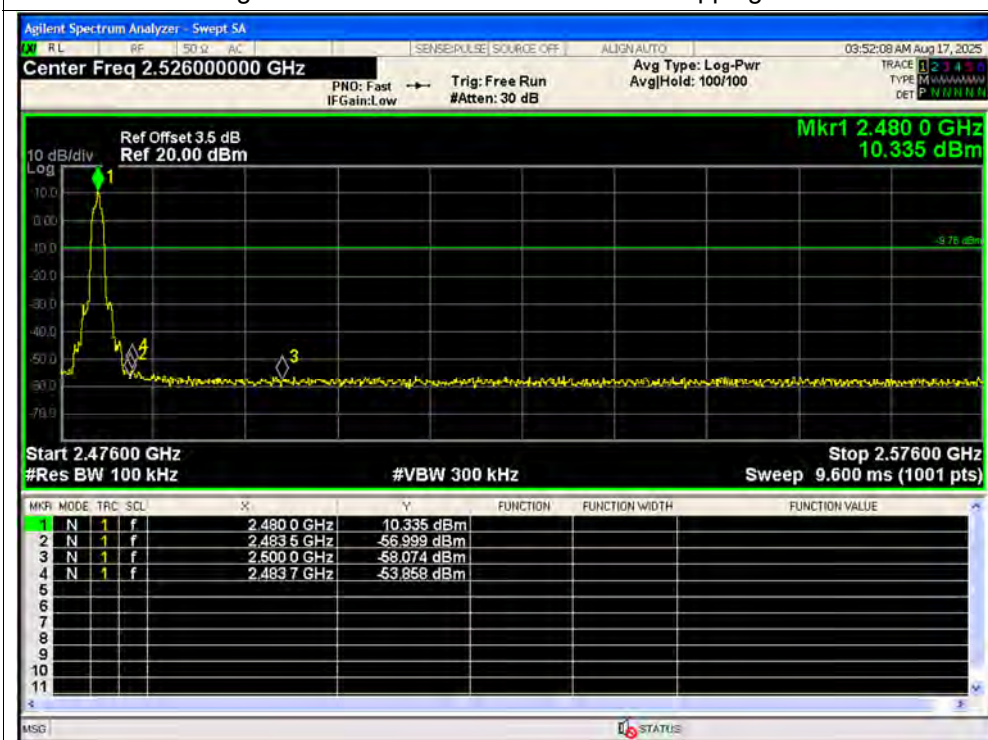
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



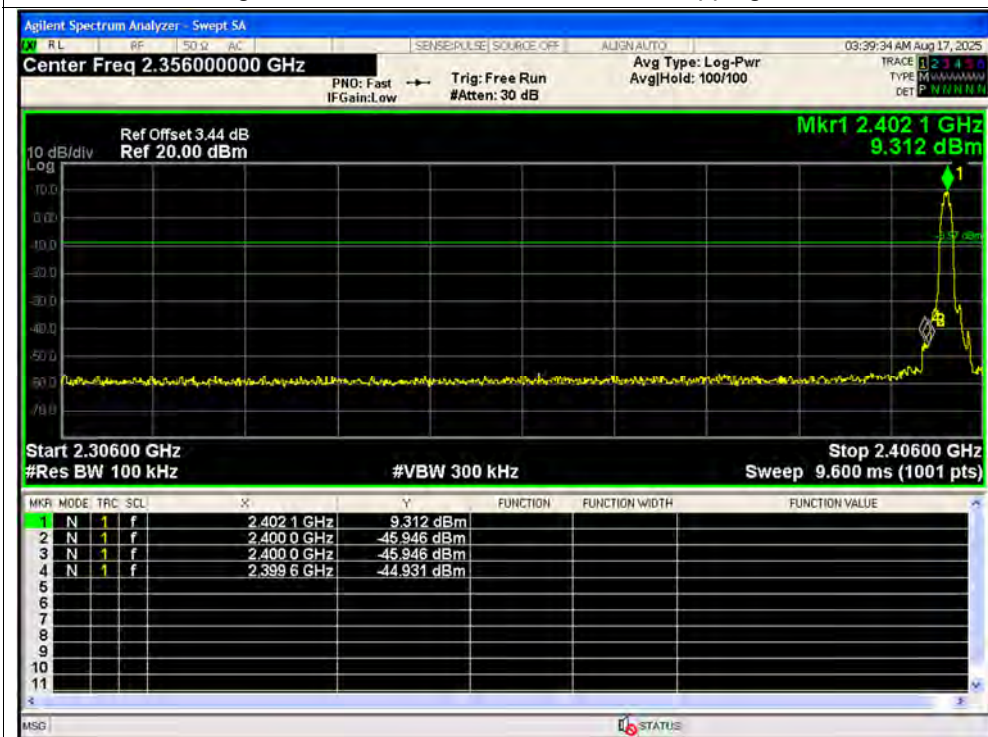
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



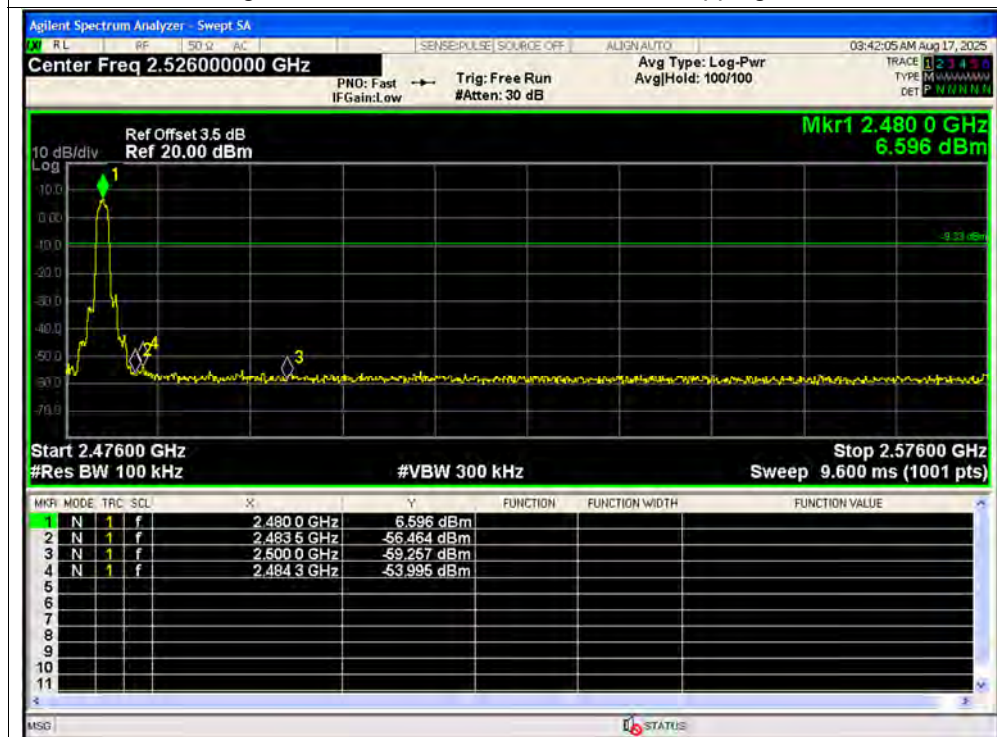
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

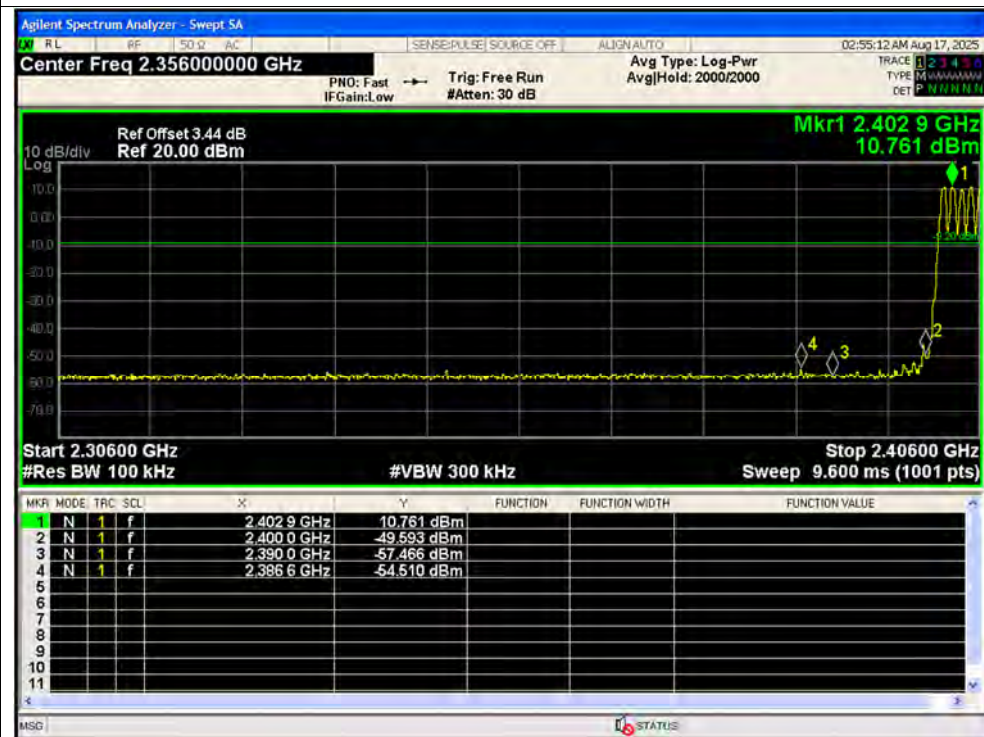


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



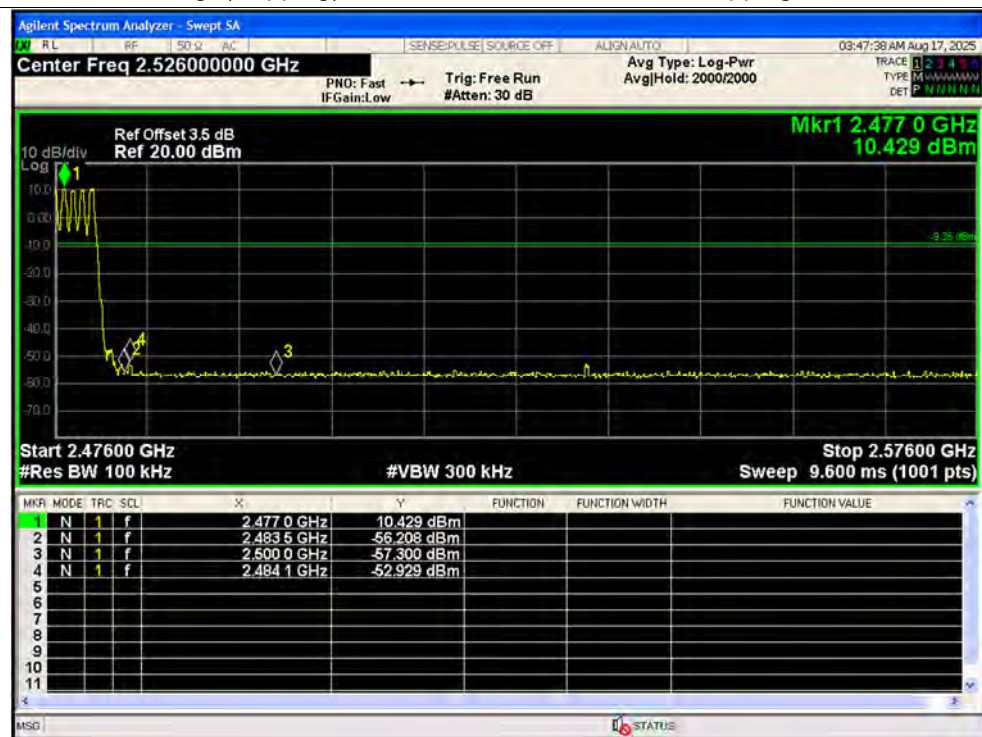
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



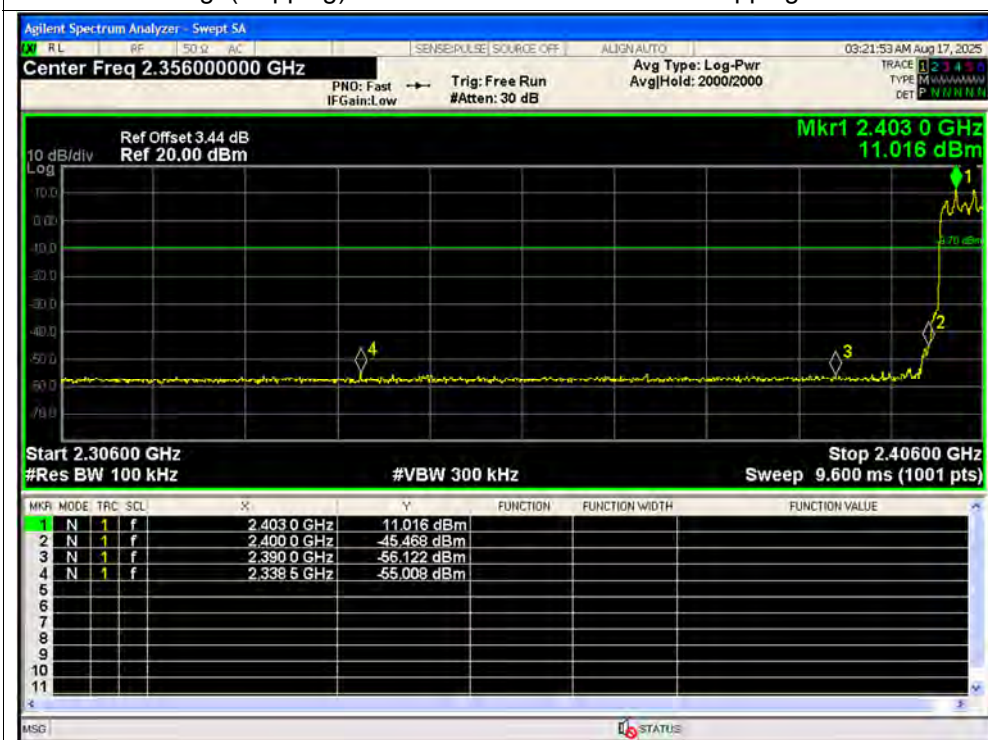
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



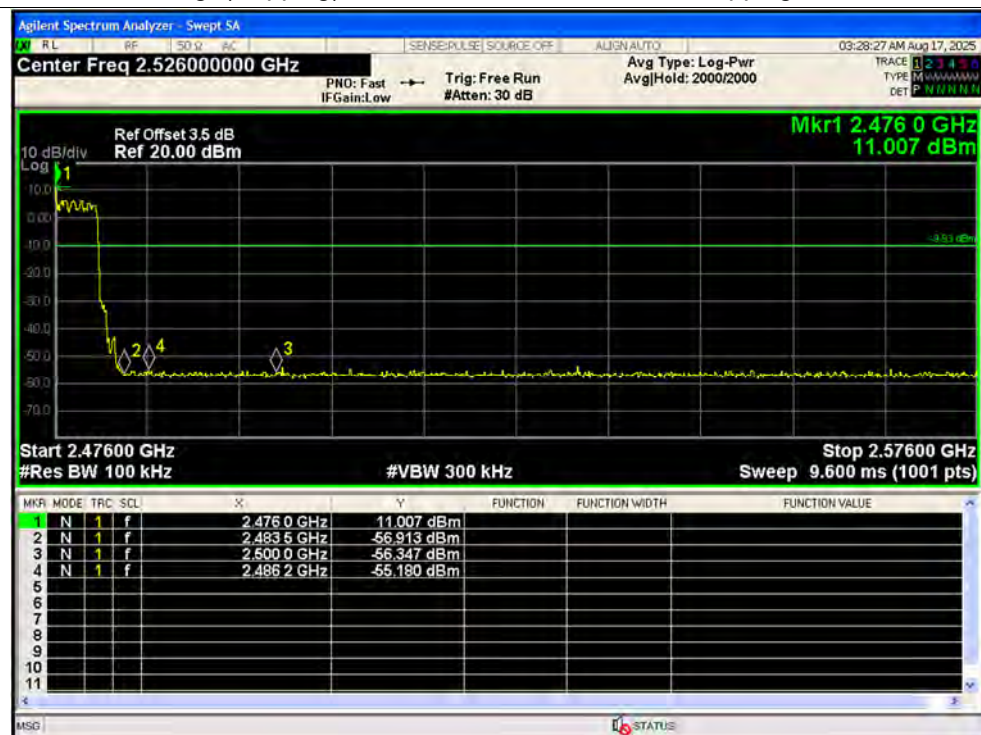
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



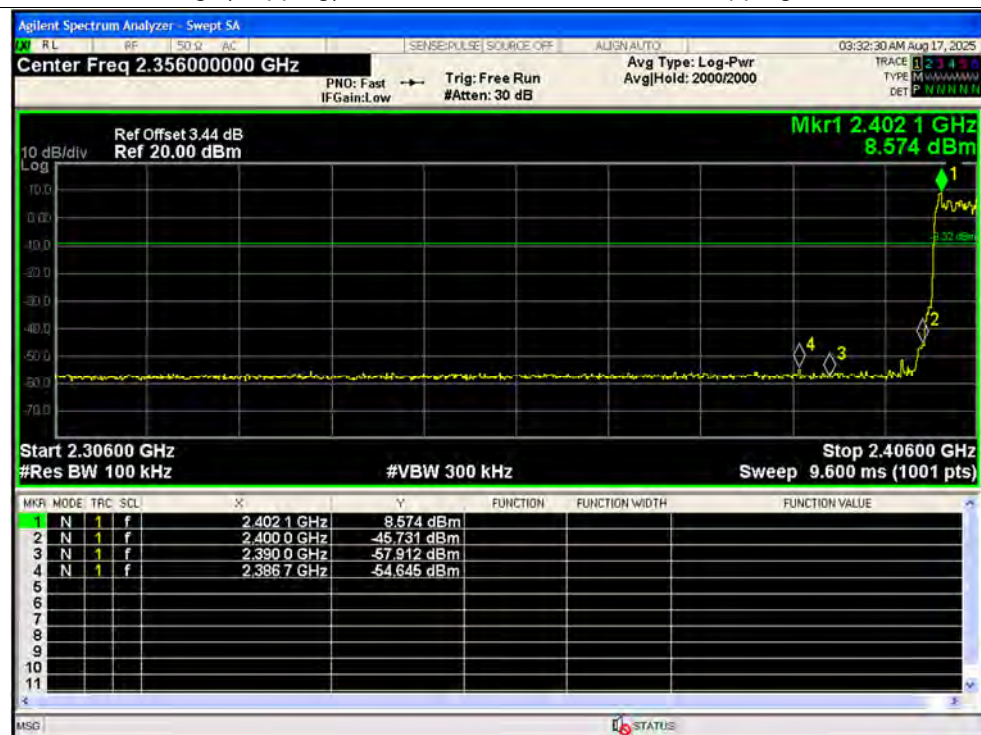
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



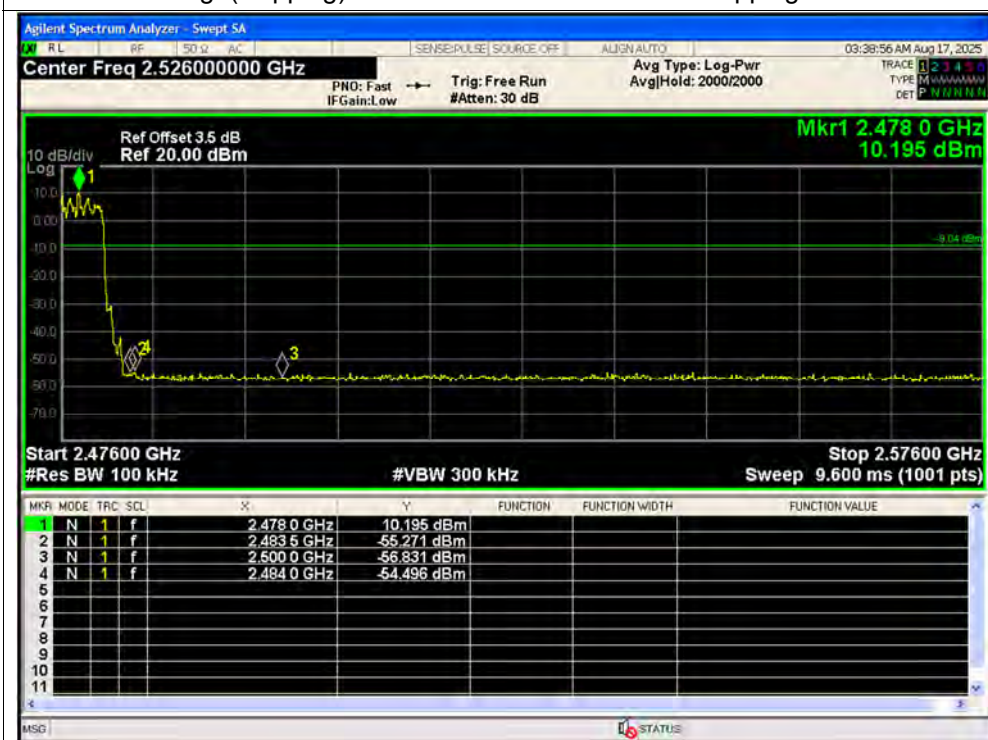
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



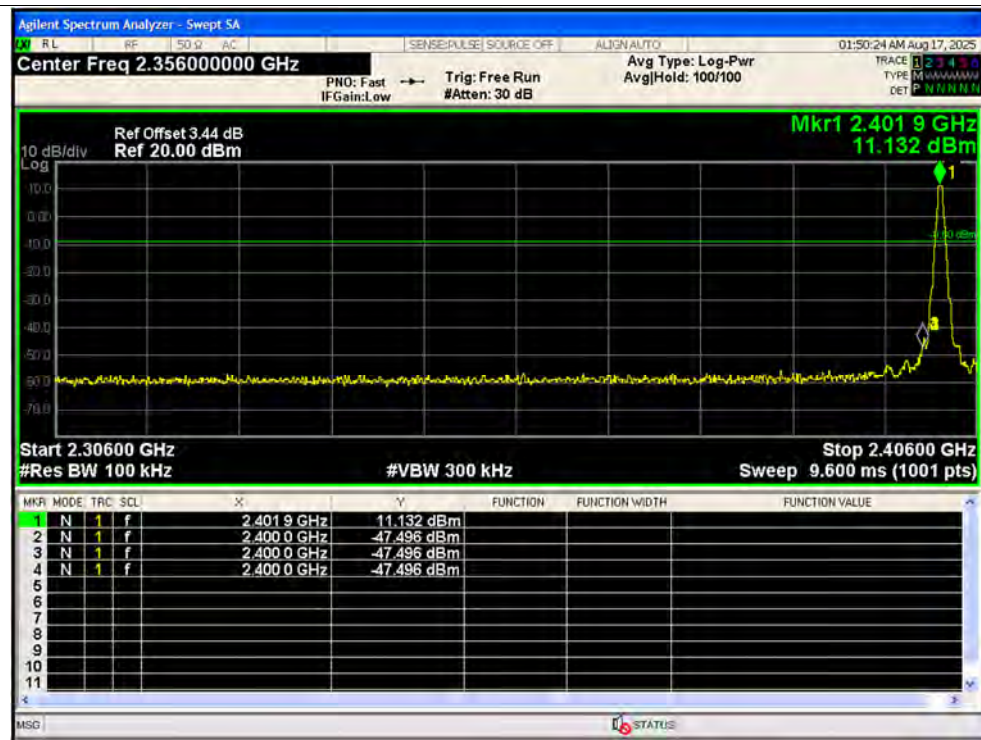
Right

Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



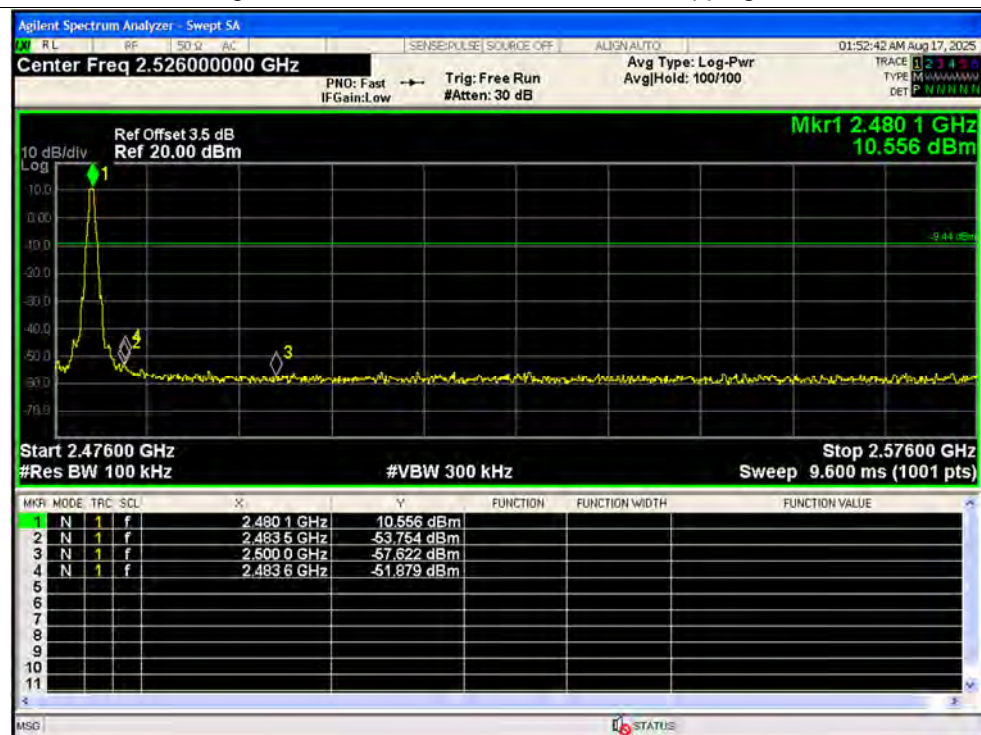
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



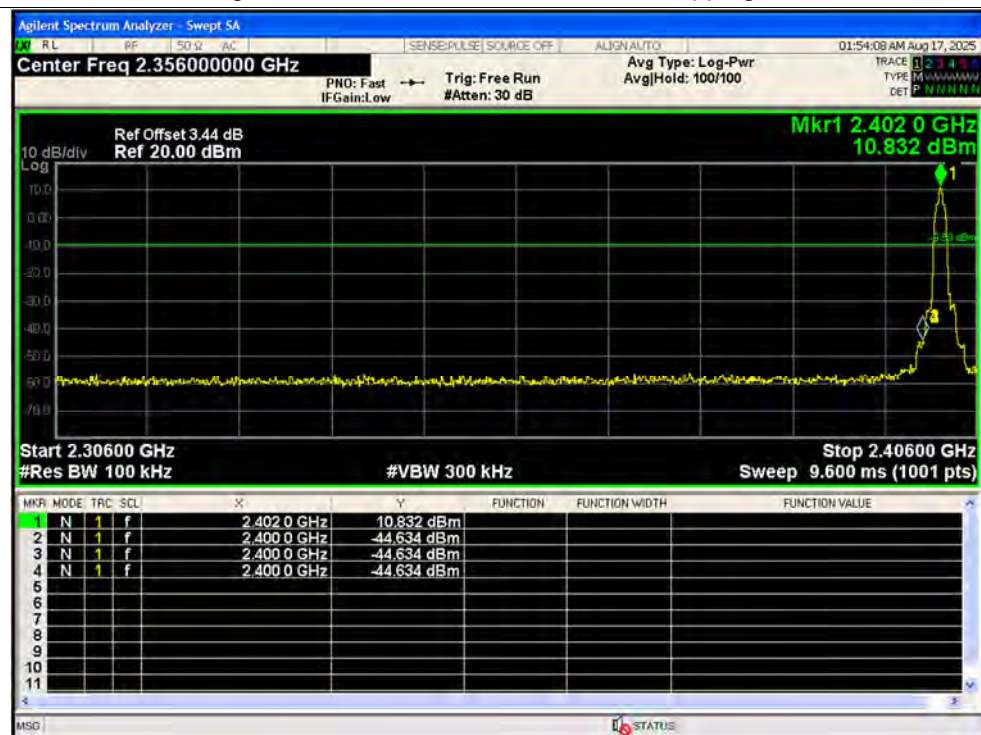
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



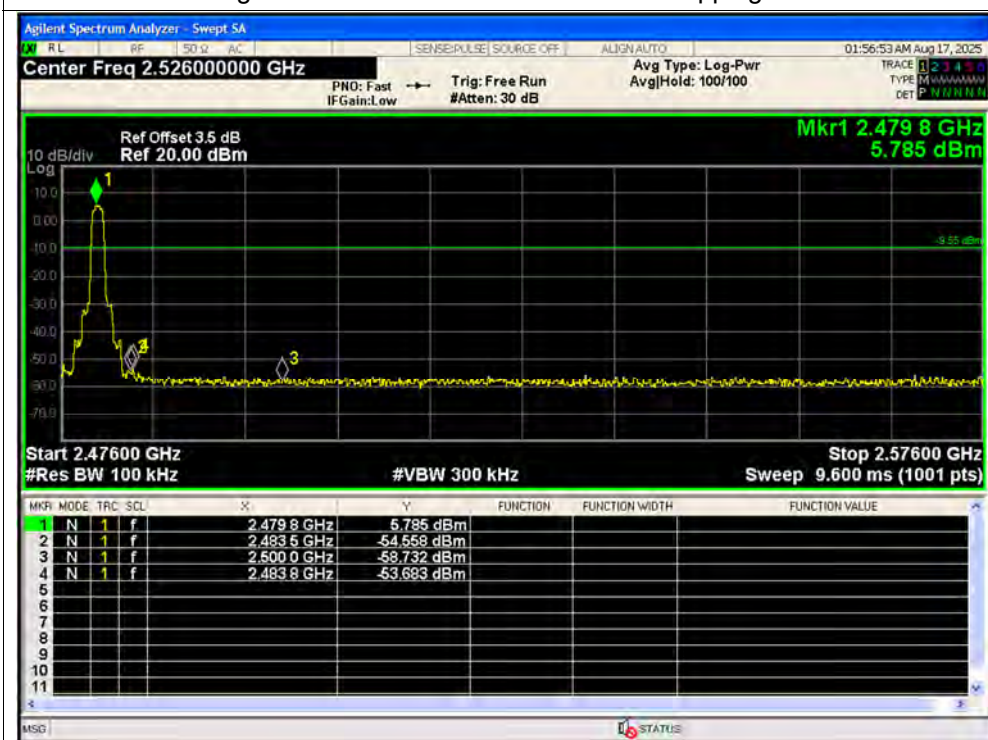
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



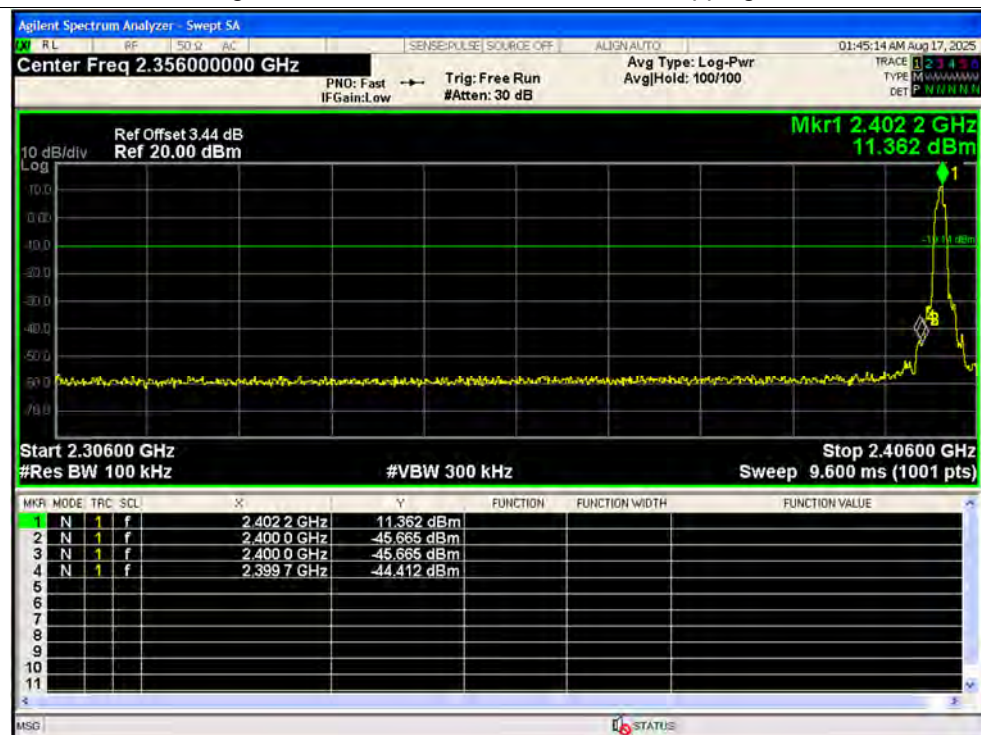
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



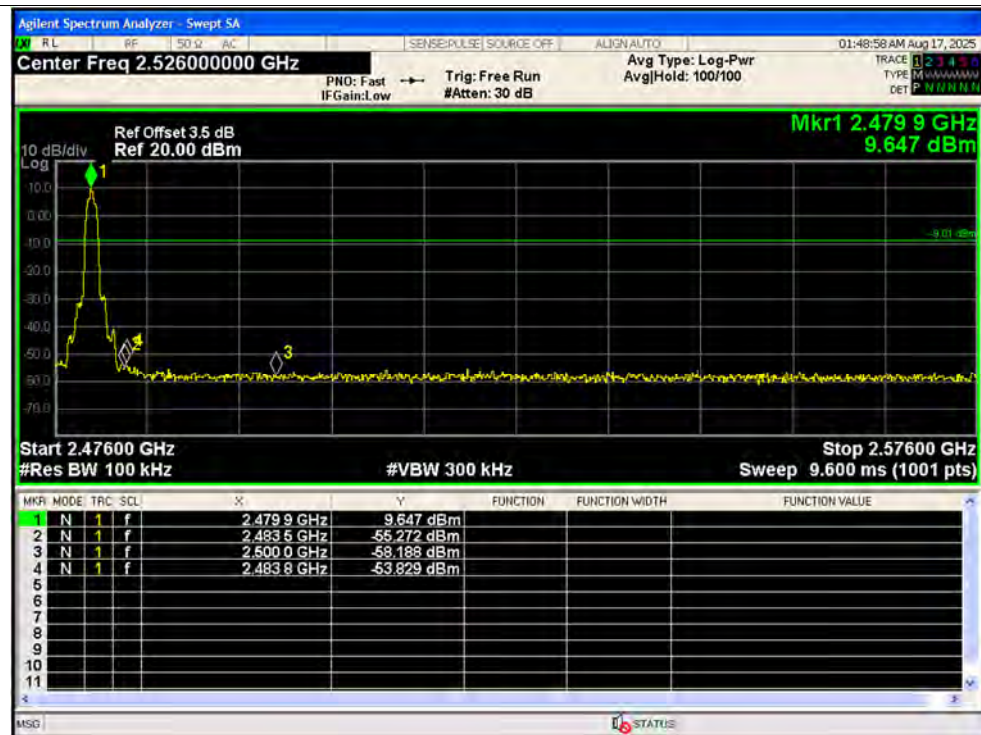
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

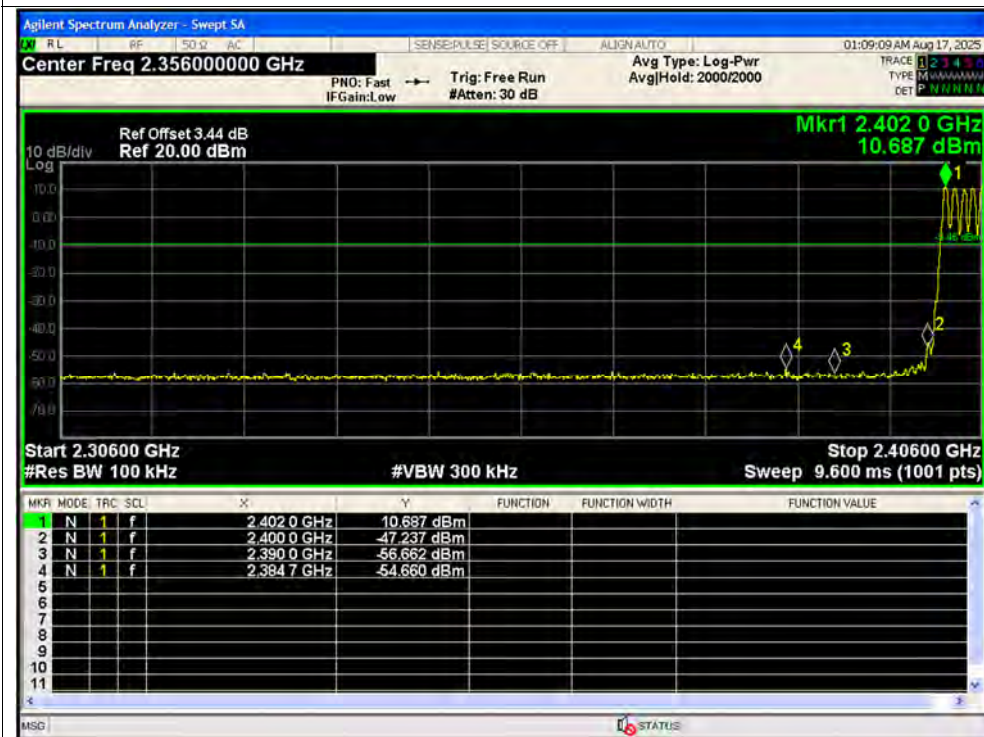


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



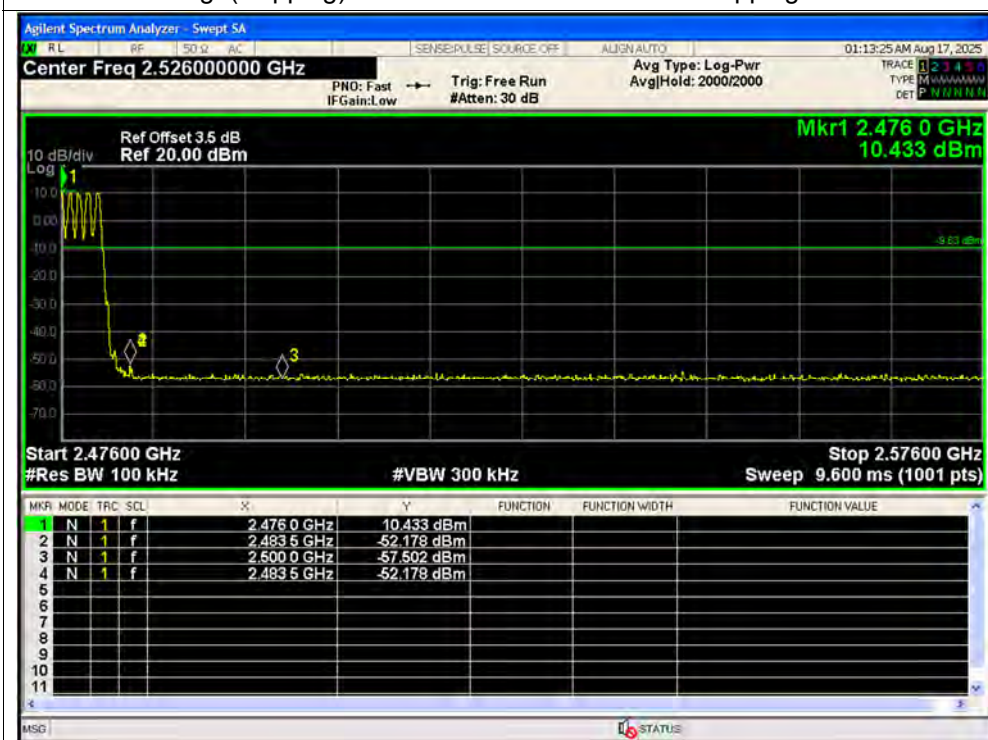
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



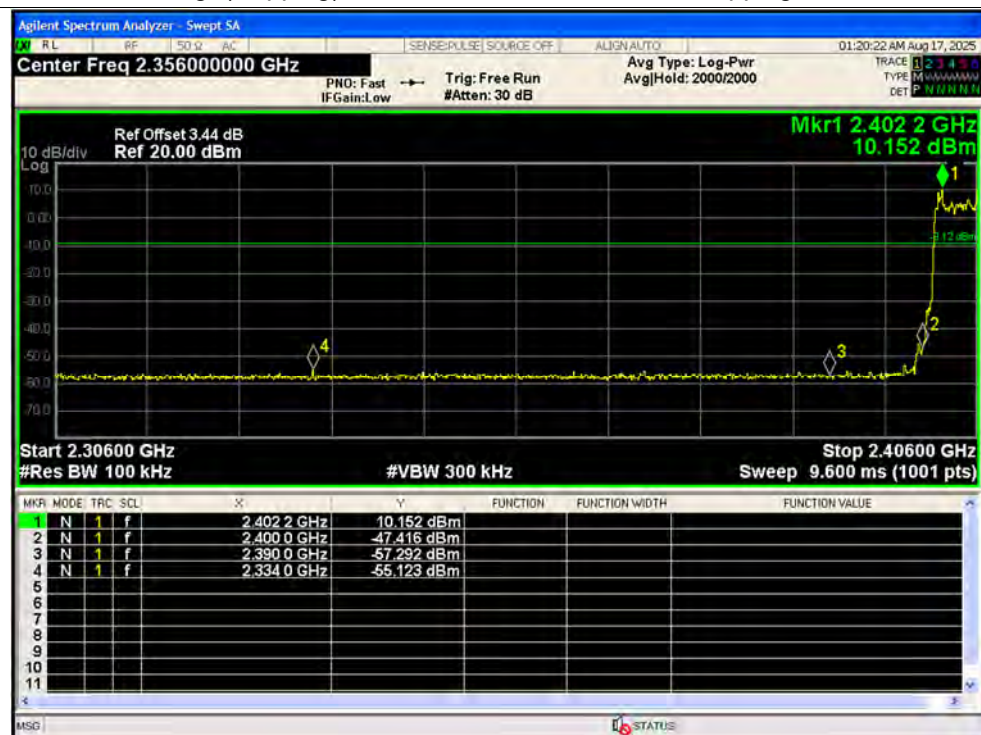
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

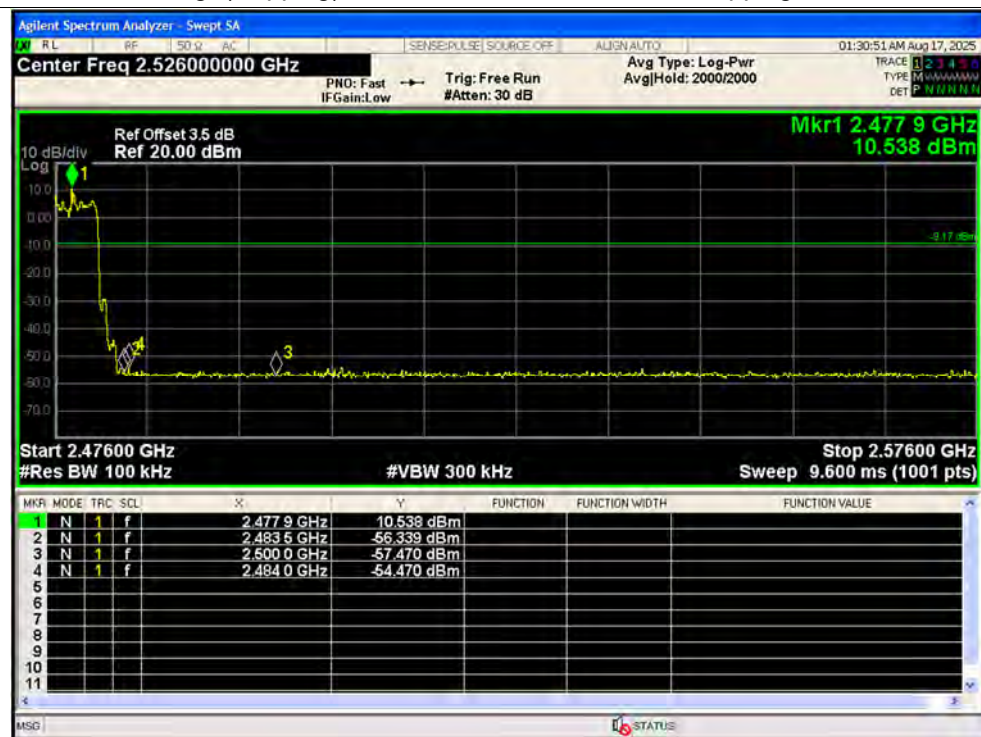




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



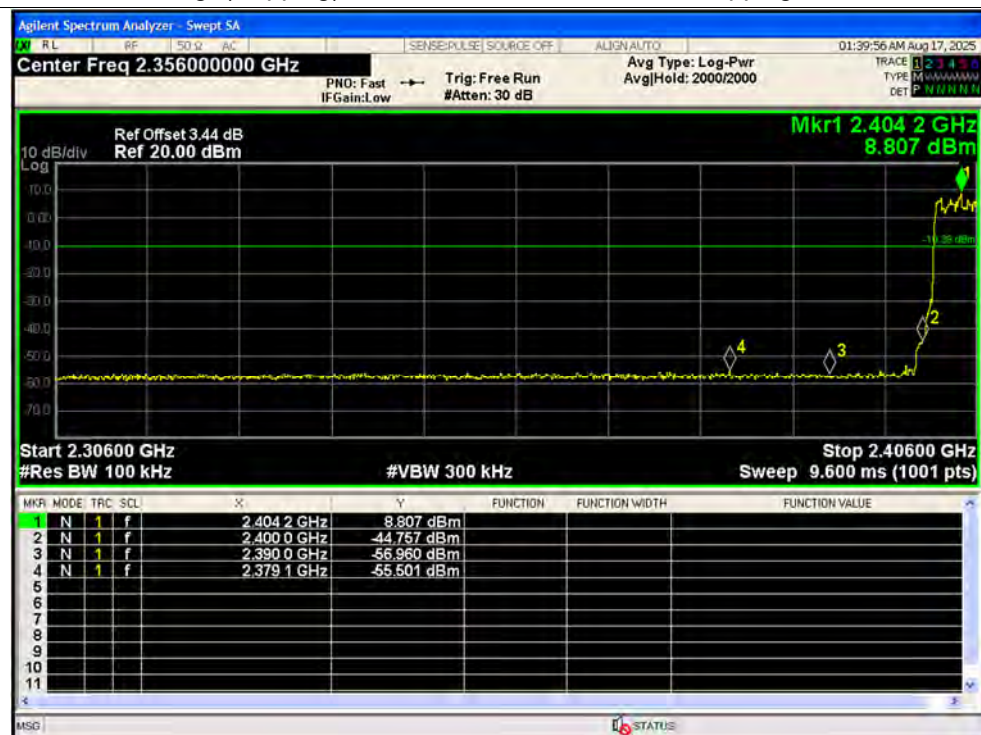
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

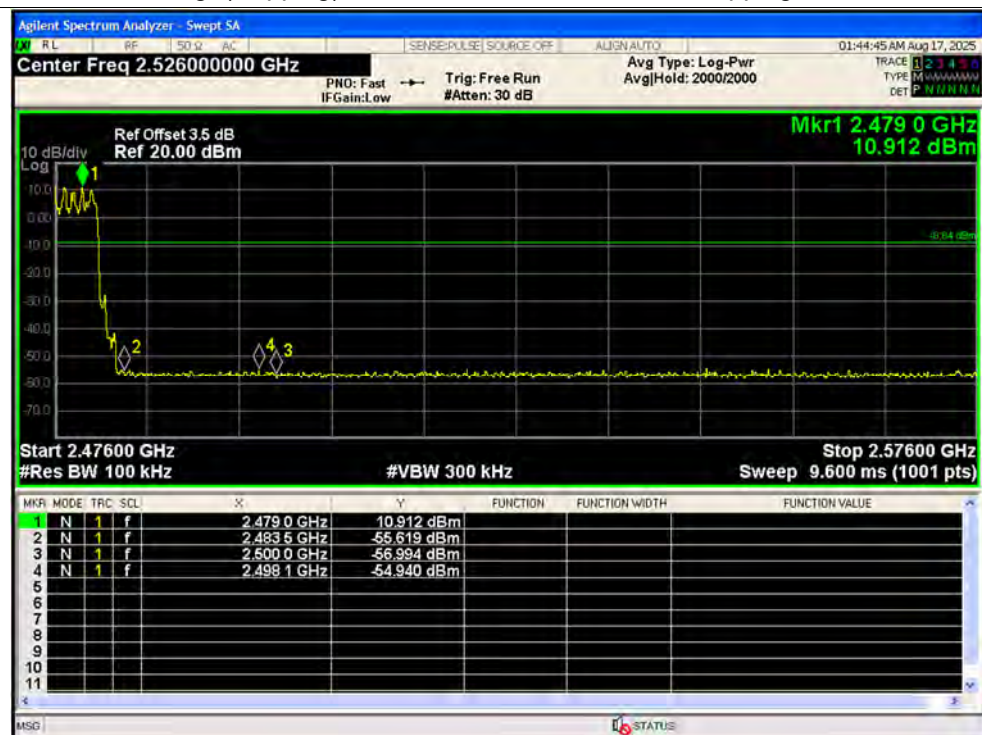




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 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+ PC + PC Adapter + Fixture + BT TX

Test voltage: AC 120V/60Hz

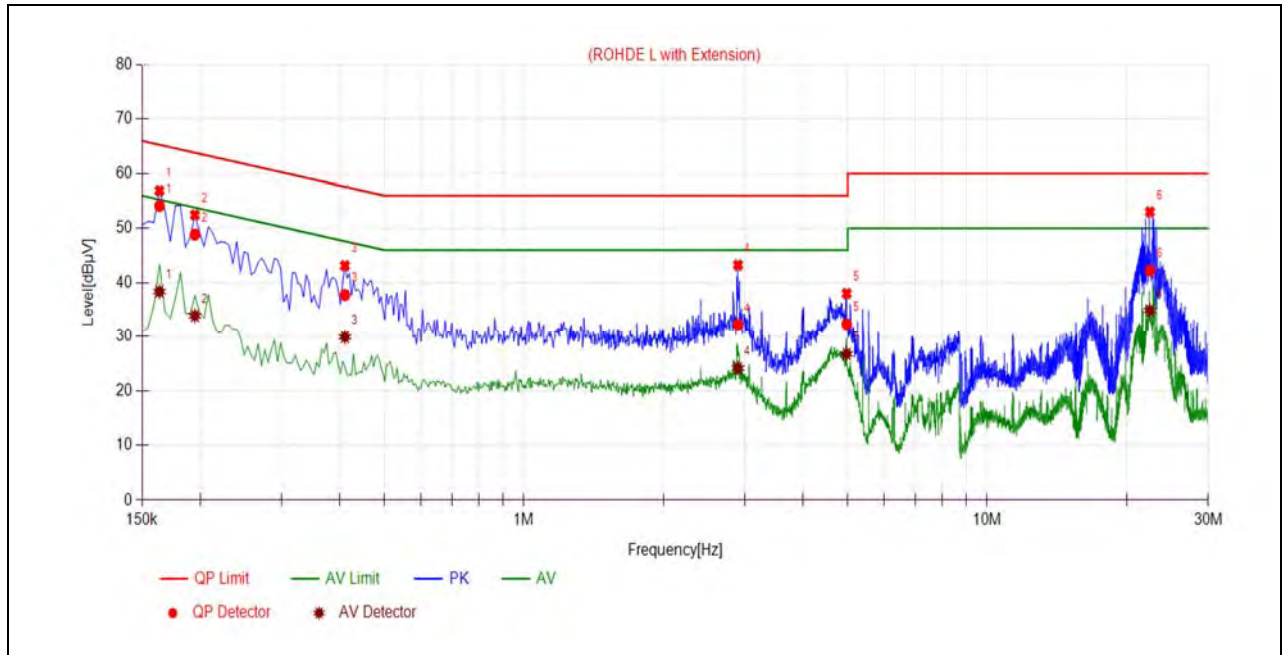
The measurement results are obtained as below:

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

U_R : Receiver Reading

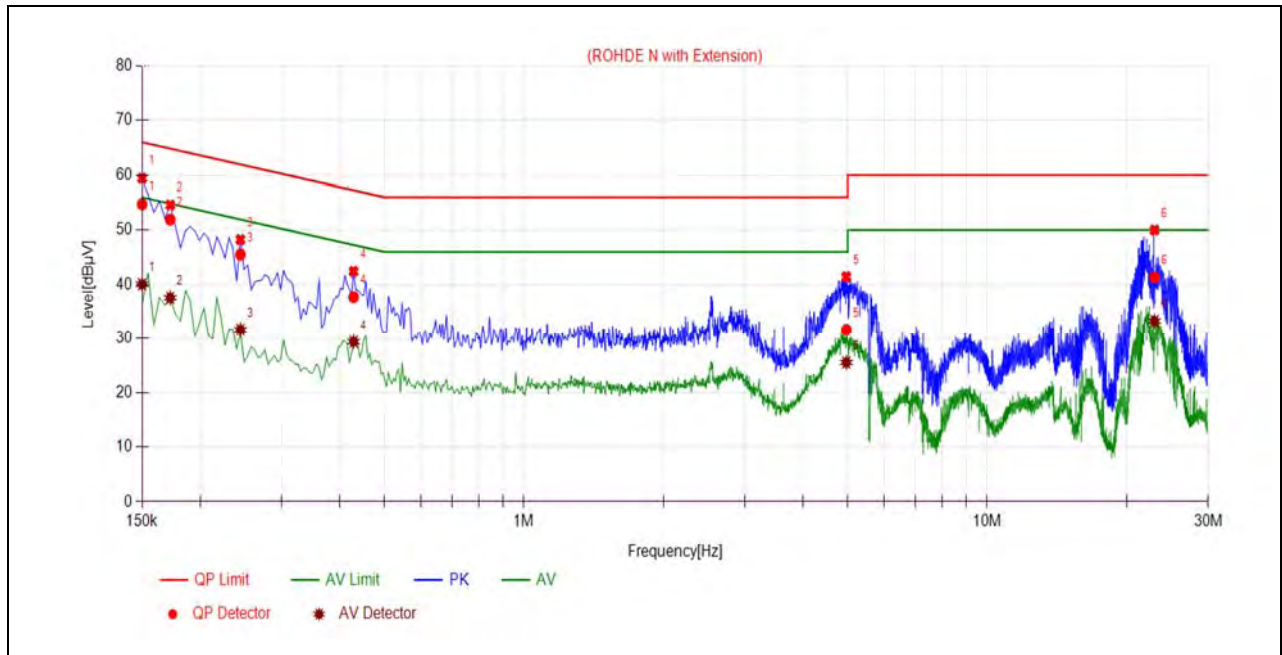
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1635	54.14	38.37	65.28	55.28	Line	PASS
2	0.1950	48.85	33.90	63.82	53.82		PASS
3	0.4110	37.72	29.89	57.63	47.63		PASS
4	2.8997	32.26	24.13	56.00	46.00		PASS
5	4.9736	32.32	26.74	56.00	46.00		PASS
6	22.4535	42.21	34.89	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	54.74	40.07	66.00	56.00	Neutral	PASS
2	0.1725	51.93	37.59	64.84	54.84		PASS
3	0.2445	45.51	31.67	61.94	51.94		PASS
4	0.4290	37.71	29.37	57.27	47.27		PASS
5	4.9654	31.65	25.52	56.00	46.00		PASS
6	22.9726	41.36	33.30	60.00	50.00		PASS

A.11. Restricted Frequency Bands

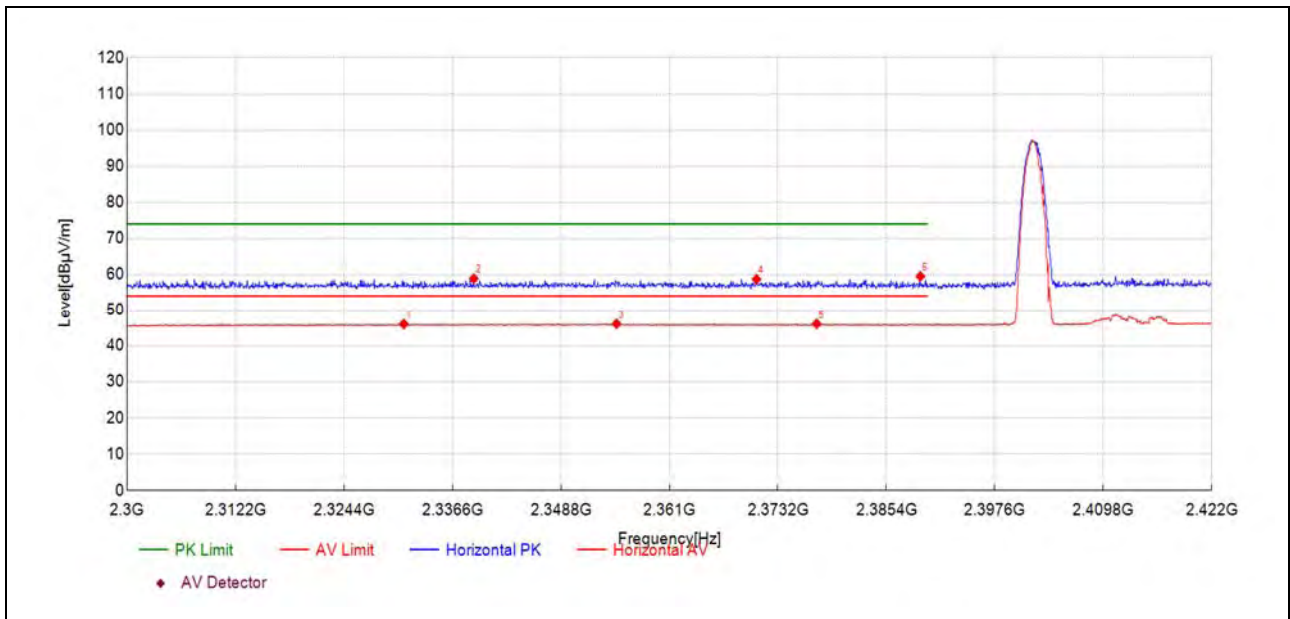
Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) was recorded in this test report.

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

Left

GFSK Mode

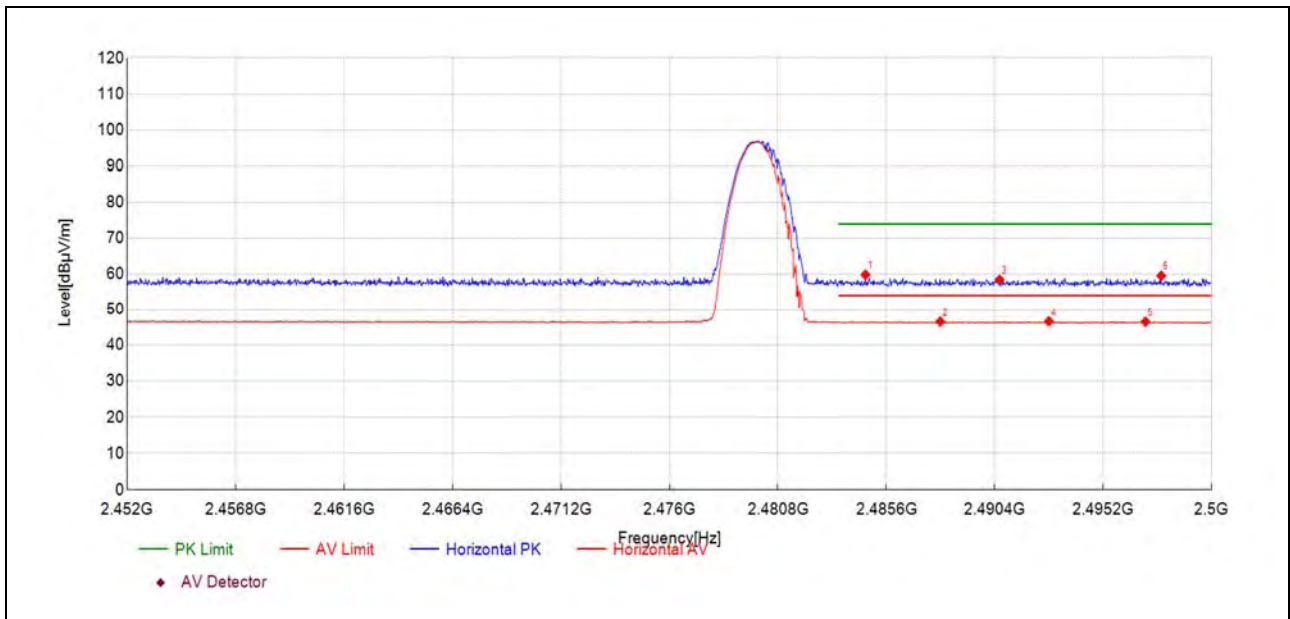
Plot for Channel 20



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2331.13	8.8	46.06	37.290	54.00	7.94	150	327	AV	PASS
2339.00	21.5	58.88	37.360	74.00	15.12	150	275	PK	PASS
2355.05	8.7	46.12	37.460	54.00	7.88	150	92	AV	PASS
2370.80	21.3	58.74	37.470	74.00	15.26	150	275	PK	PASS
2377.57	8.6	46.11	37.480	54.00	7.89	150	294	AV	PASS
2389.23	22.0	59.51	37.490	74.00	14.49	150	40	PK	PASS



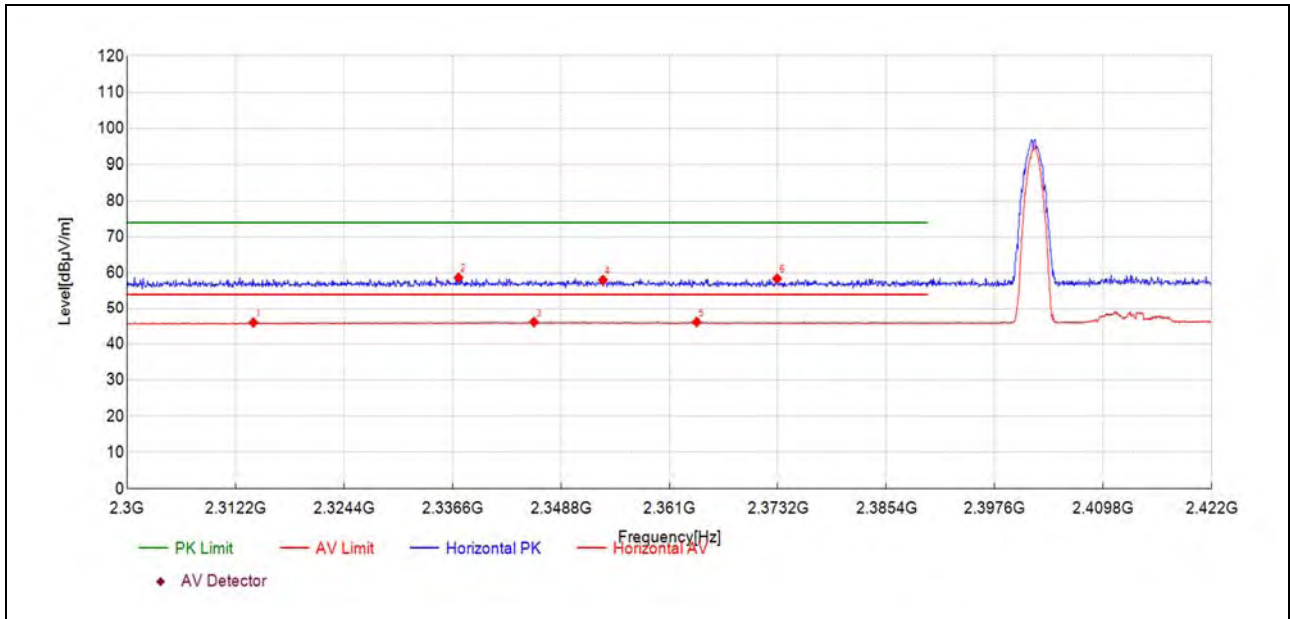
Plot for Channel 78



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.68	21.6	59.83	38.270	74.00	14.17	150	48	PK	PASS
2487.99	8.3	46.56	38.270	54.00	7.44	150	355	AV	PASS
2490.61	20.2	58.45	38.270	74.00	15.55	150	355	PK	PASS
2492.80	8.4	46.61	38.260	54.00	7.39	150	246	AV	PASS
2497.07	8.2	46.49	38.250	54.00	7.51	150	6	AV	PASS
2497.77	21.3	59.54	38.250	74.00	14.46	150	156	PK	PASS

**8-DPSK Mode**

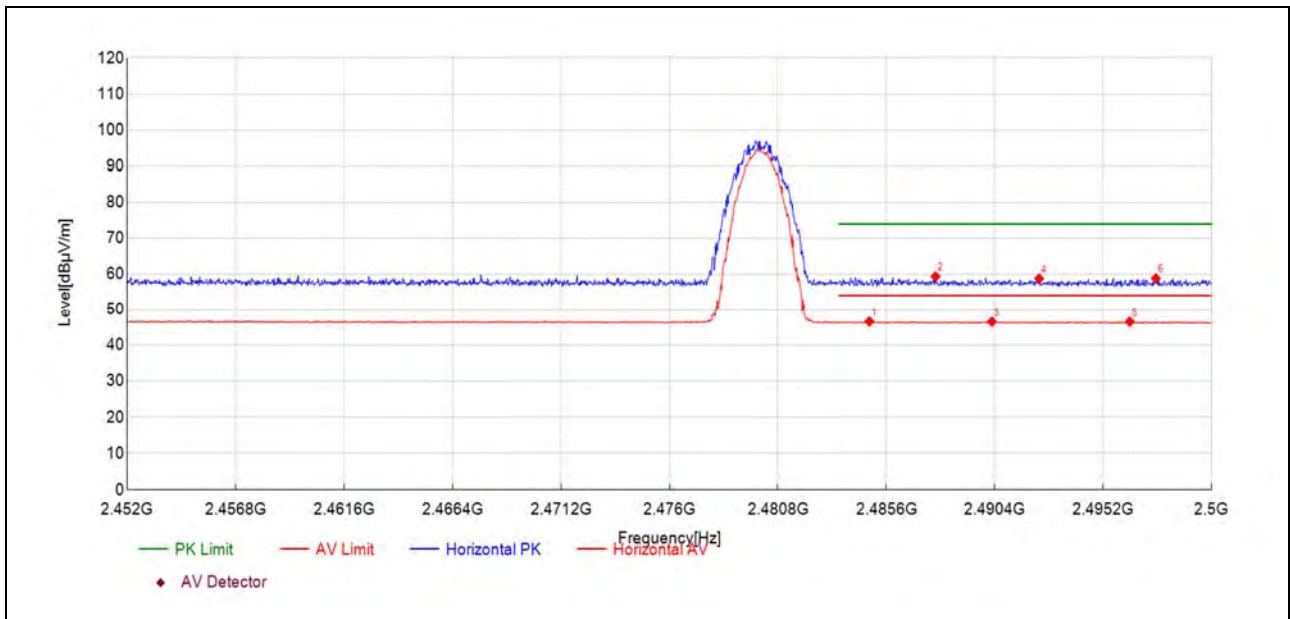
Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2314.22	8.8	45.97	37.130	54.00	8.03	150	303	AV	PASS
2337.29	21.4	58.73	37.340	74.00	15.27	150	327	PK	PASS
2345.77	8.7	46.11	37.420	54.00	7.89	150	134	AV	PASS
2353.52	20.6	58.06	37.460	74.00	15.94	150	341	PK	PASS
2364.08	8.7	46.13	37.470	54.00	7.87	150	7	AV	PASS
2373.11	20.9	58.41	37.480	74.00	15.59	150	270	PK	PASS



Plot for Channel 78



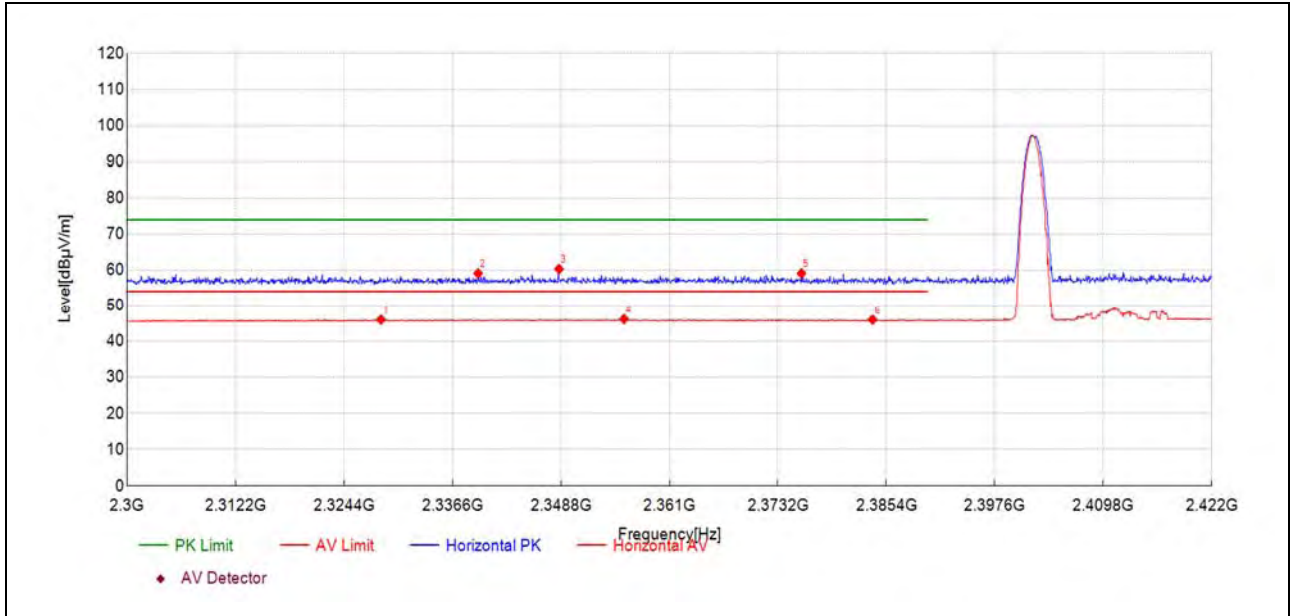
Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2484.85	8.3	46.58	38.270	54.00	7.42	150	154	AV	PASS
2487.78	21.1	59.37	38.270	74.00	14.63	150	346	PK	PASS
2490.28	8.3	46.53	38.270	54.00	7.47	150	317	AV	PASS
2492.36	20.5	58.77	38.260	74.00	15.23	150	341	PK	PASS
2496.37	8.3	46.55	38.250	54.00	7.45	150	247	AV	PASS
2497.53	20.6	58.86	38.250	74.00	15.14	150	51	PK	PASS



Right

GFSK Mode

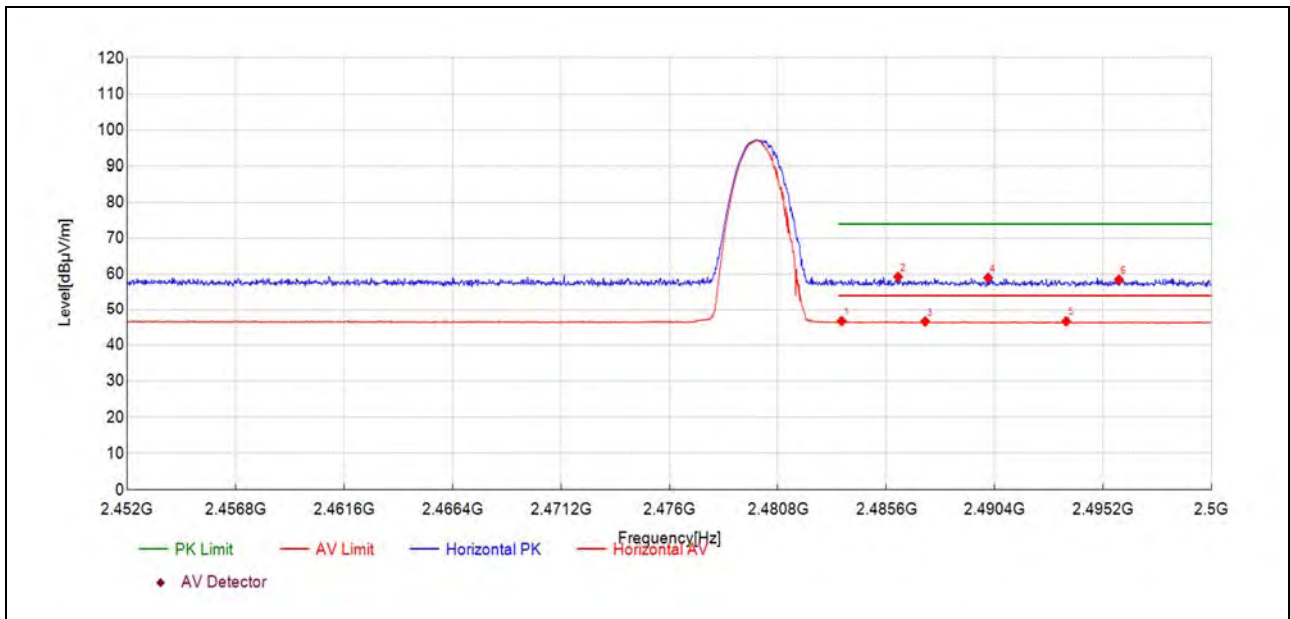
Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2328.56	8.8	46.04	37.270	54.00	7.96	150	189	AV	PASS
2339.49	21.8	59.12	37.370	74.00	14.88	150	298	PK	PASS
2348.58	22.9	60.33	37.440	74.00	13.67	150	293	PK	PASS
2355.90	8.7	46.19	37.460	54.00	7.81	150	341	AV	PASS
2375.86	21.6	59.10	37.480	74.00	14.90	150	189	PK	PASS
2383.86	8.6	46.04	37.490	54.00	7.96	150	48	AV	PASS



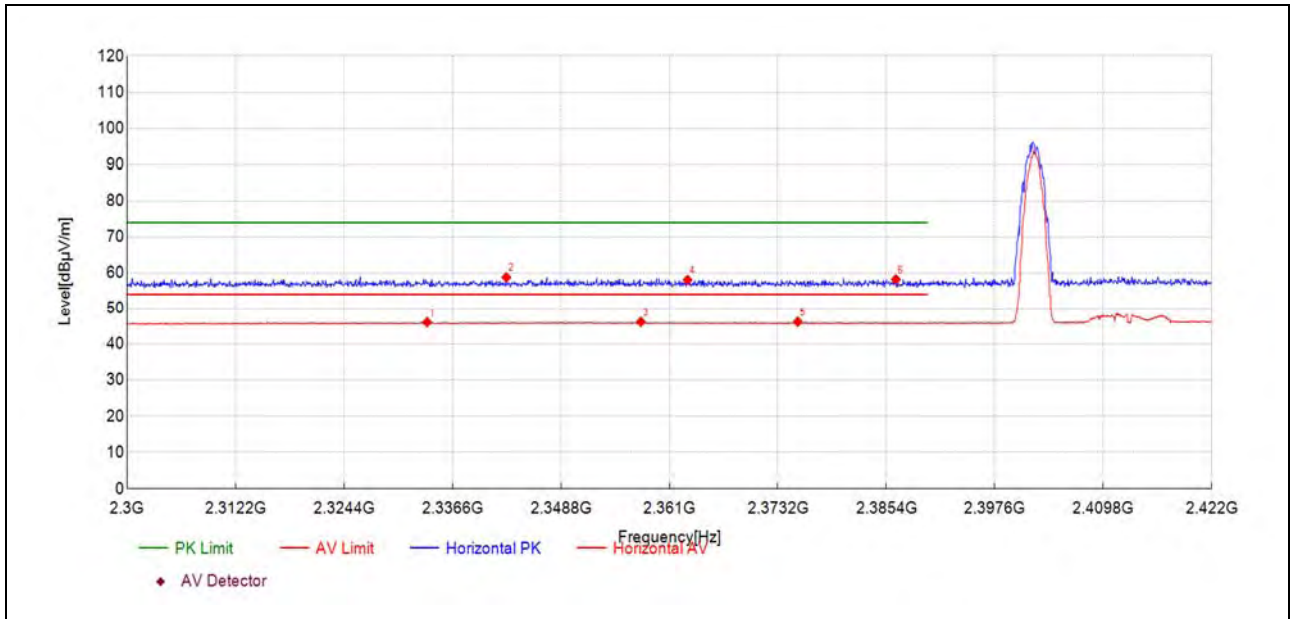
Plot for Channel 78



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2483.62	8.4	46.68	38.280	54.00	7.32	150	351	AV	PASS
2486.12	21.0	59.25	38.280	74.00	14.75	150	92	PK	PASS
2487.32	8.3	46.55	38.270	54.00	7.45	150	40	AV	PASS
2490.11	20.7	58.99	38.270	74.00	15.01	150	83	PK	PASS
2493.56	8.4	46.63	38.260	54.00	7.37	150	59	AV	PASS
2495.89	20.2	58.48	38.260	74.00	15.52	150	299	PK	PASS

**8-DPSK Mode**

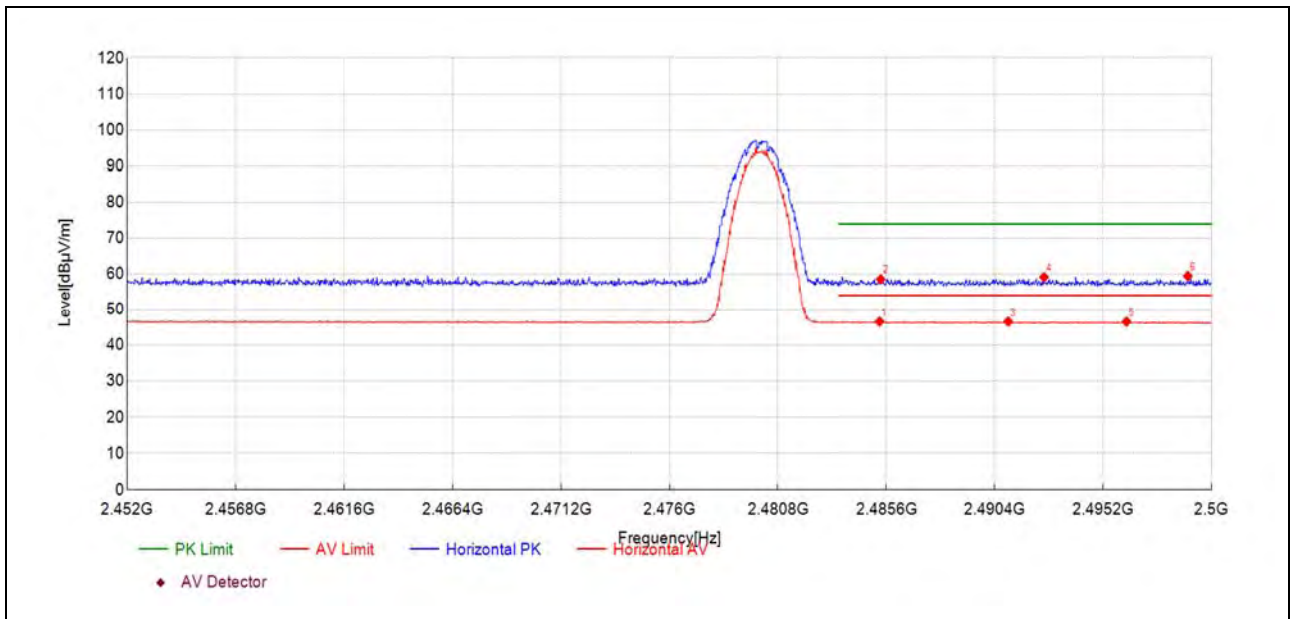
Plot for Channel 0



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2333.75	8.8	46.10	37.310	54.00	7.90	150	157	AV	PASS
2342.66	21.4	58.80	37.390	74.00	15.20	150	90	PK	PASS
2357.80	8.7	46.17	37.460	54.00	7.83	150	218	AV	PASS
2363.04	20.6	58.08	37.470	74.00	15.92	150	24	PK	PASS
2375.43	8.7	46.20	37.480	54.00	7.80	150	1	AV	PASS
2386.48	20.7	58.22	37.490	74.00	15.78	150	138	PK	PASS



Plot for Channel 78



Fre. (MHz)	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
2485.30	8.3	46.57	38.270	54.00	7.43	150	204	AV	PASS
2485.35	20.3	58.58	38.270	74.00	15.42	150	336	PK	PASS
2491.00	8.3	46.57	38.270	54.00	7.43	150	124	AV	PASS
2492.58	20.9	59.16	38.260	74.00	14.84	150	204	PK	PASS
2496.23	8.3	46.55	38.260	54.00	7.45	150	25	AV	PASS
2498.94	21.3	59.50	38.250	74.00	14.50	150	322	PK	PASS



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 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.

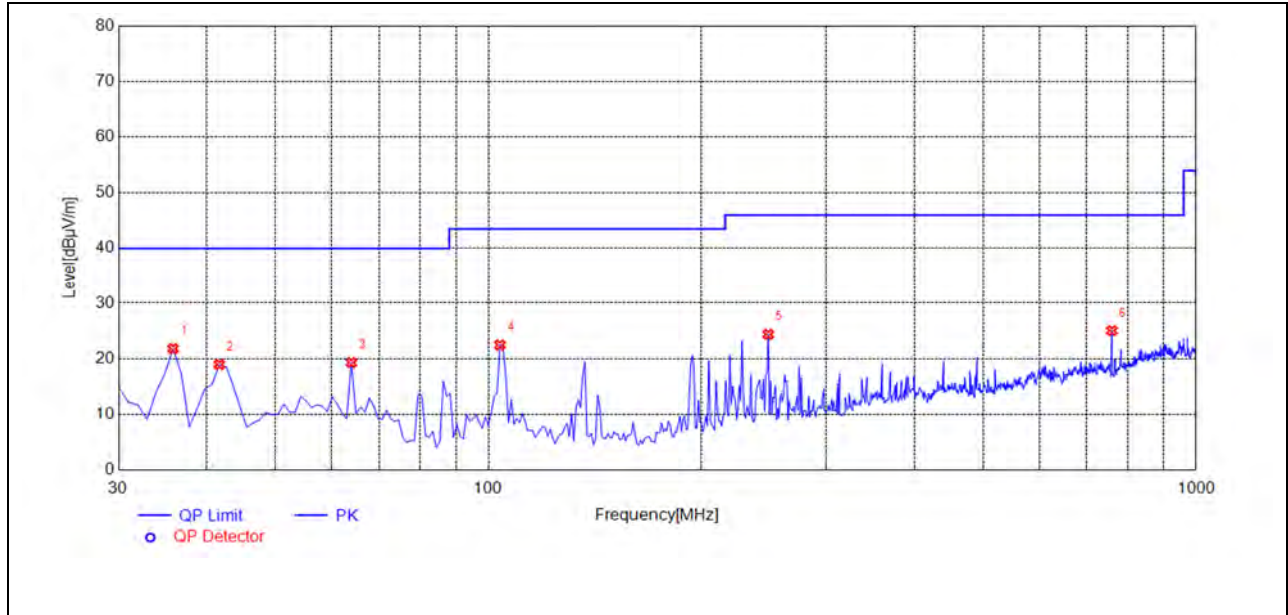
Note 4: All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.



Left

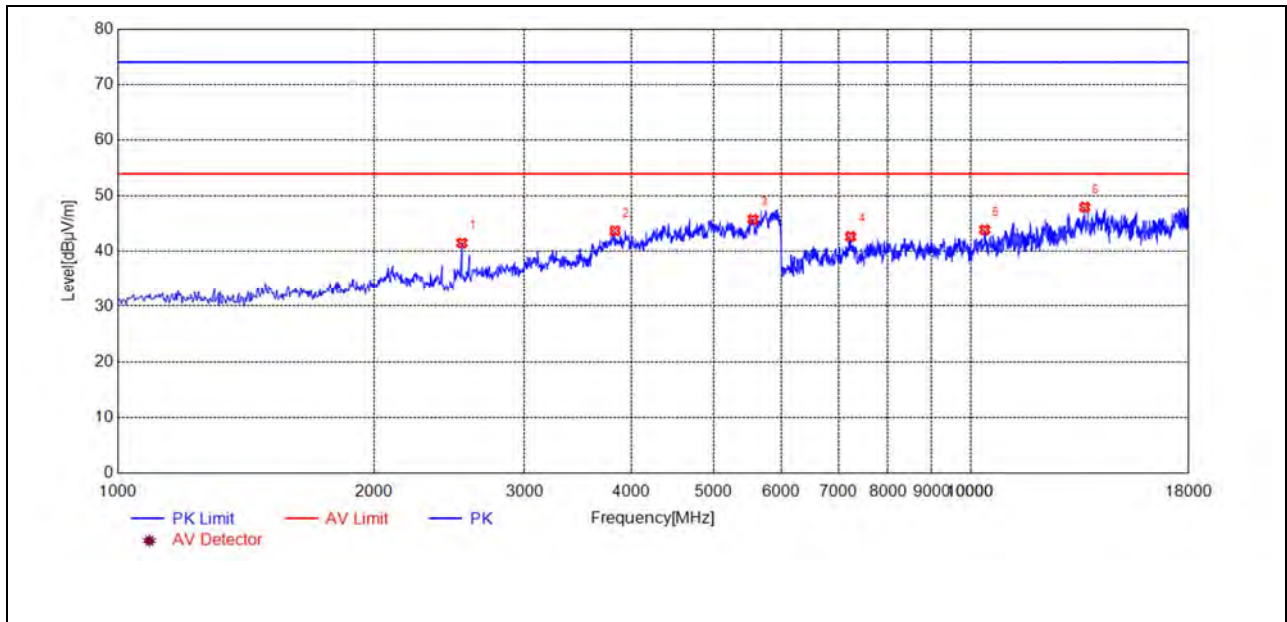
GFSK Mode

Plot for Channel 0



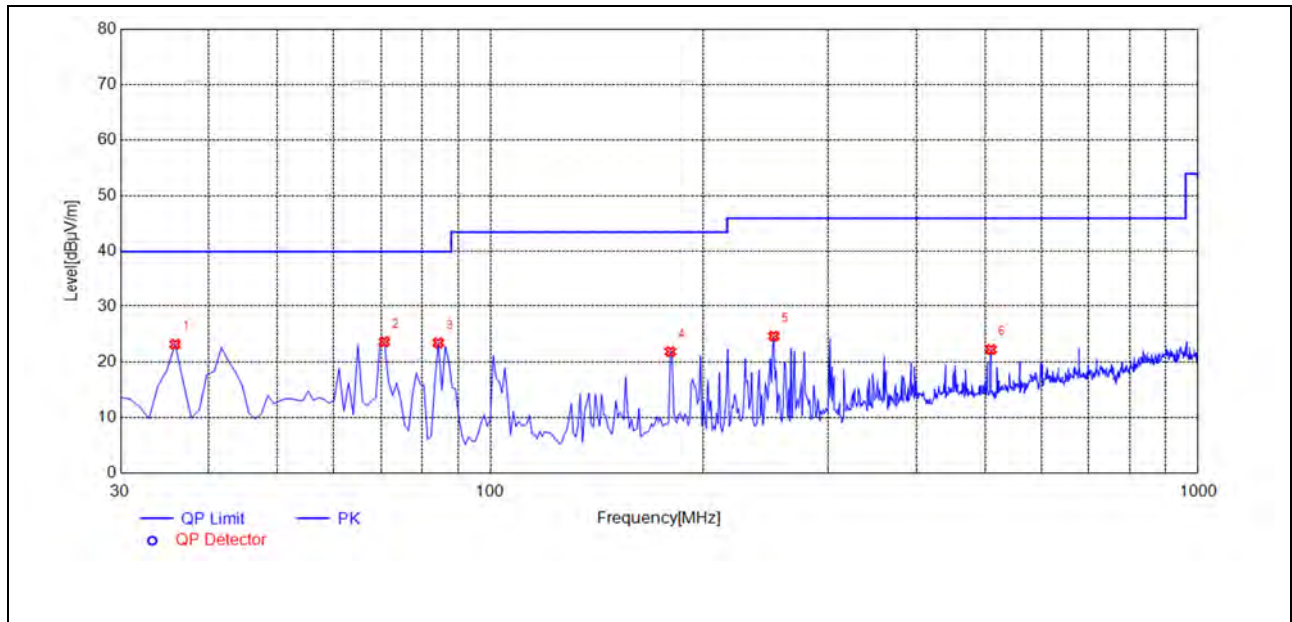
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	21.80	-36.91	40.00	18.20	150	117	Horizontal	PASS
41.6517	18.93	-29.90	40.00	21.07	150	299	Horizontal	PASS
63.9840	19.30	-30.20	40.00	20.70	150	234	Horizontal	PASS
103.7938	22.47	-30.69	43.50	21.03	150	1	Horizontal	PASS
248.4685	24.37	-30.36	46.00	21.63	150	292	Horizontal	PASS
760.1702	25.03	-22.02	46.00	20.97	150	343	Horizontal	PASS



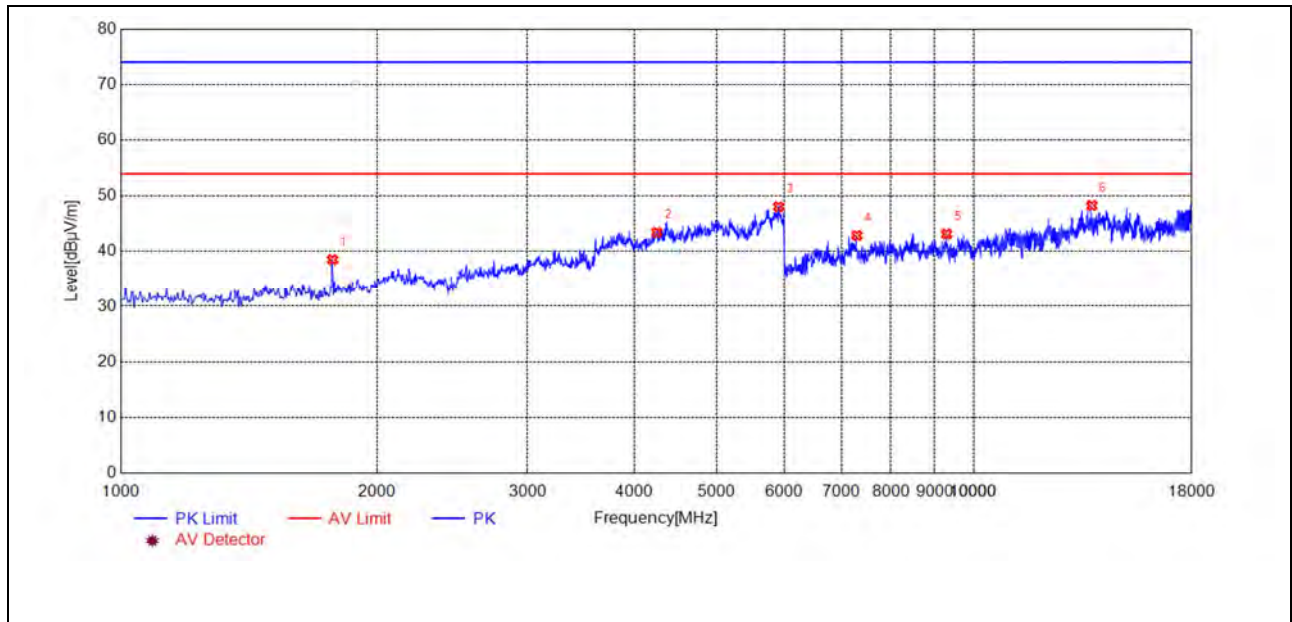
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2533.7067	41.53	-19.83	74.00	32.47	150	82	Horizontal	PASS
3829.3659	43.72	-14.42	74.00	30.28	150	276	Horizontal	PASS
5556.9114	45.78	-7.72	74.00	28.22	150	82	Horizontal	PASS
7230.0460	42.70	-2.75	74.00	31.30	150	74	Horizontal	PASS
10382.4765	43.90	1.96	74.00	30.10	150	23	Horizontal	PASS
13602.9206	47.99	7.50	74.00	26.01	150	182	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

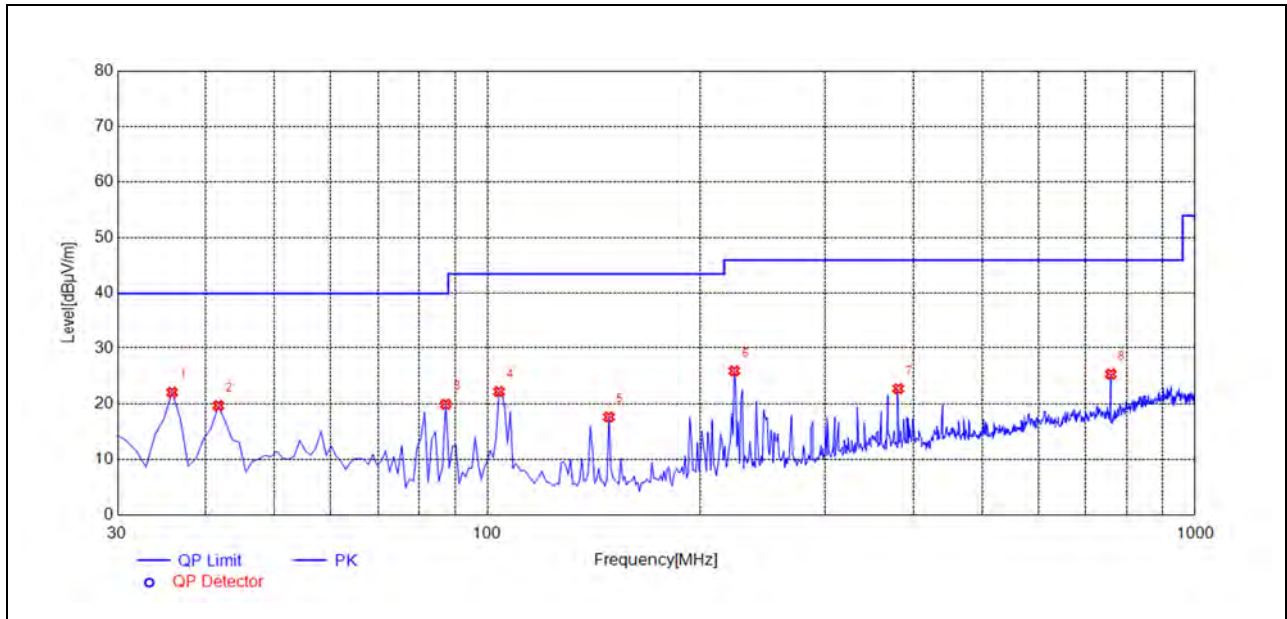
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	23.15	-36.91	40.00	16.85	150	184	Vertical	PASS
70.7808	23.59	-32.25	40.00	16.41	150	62	Vertical	PASS
84.3744	23.39	-33.56	40.00	16.61	150	156	Vertical	PASS
179.5295	21.82	-33.34	43.50	21.68	150	308	Vertical	PASS
251.3814	24.61	-30.32	46.00	21.39	150	214	Vertical	PASS
509.6597	22.20	-25.14	46.00	23.80	150	18	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

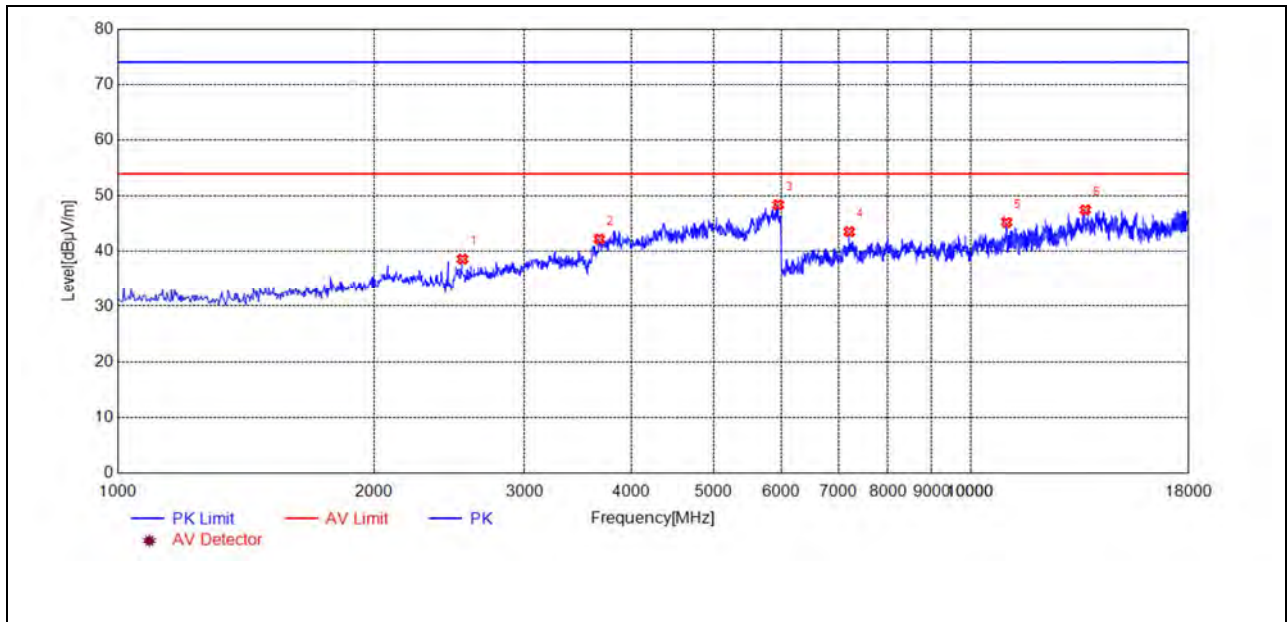
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1771.9544	38.54	-23.06	74.00	35.46	150	57	Vertical	PASS
4251.0502	43.44	-12.81	74.00	30.56	150	140	Vertical	PASS
5907.1814	48.07	-6.92	74.00	25.93	150	90	Vertical	PASS
7294.6589	42.88	-3.33	74.00	31.12	150	166	Vertical	PASS
9290.8582	43.17	1.19	74.00	30.83	150	312	Vertical	PASS
13752.5505	48.28	7.20	74.00	25.72	150	199	Vertical	PASS

Plot for Channel 39



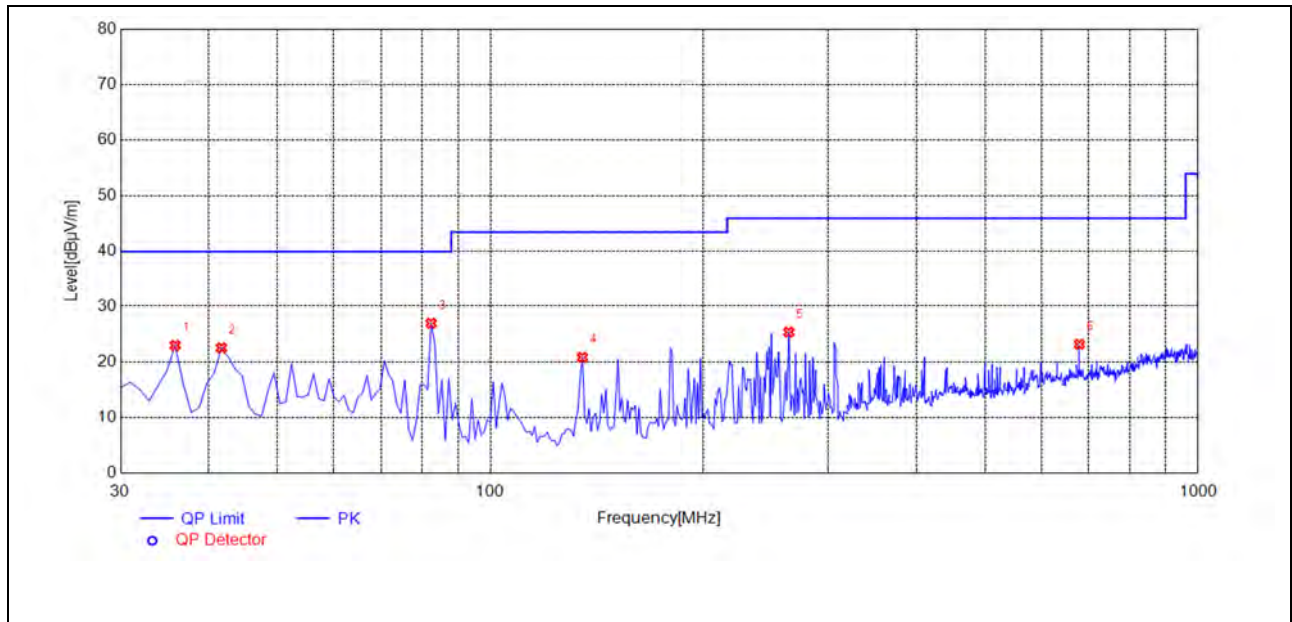
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	22.05	-36.91	40.00	17.95	150	329	Horizontal	PASS
41.6517	19.64	-29.90	40.00	20.36	150	18	Horizontal	PASS
87.2873	19.89	-33.84	40.00	20.11	150	90	Horizontal	PASS
103.7938	22.17	-30.69	43.50	21.33	150	235	Horizontal	PASS
148.4585	17.60	-34.62	43.50	25.90	150	285	Horizontal	PASS
223.2232	25.88	-31.70	46.00	20.12	150	126	Horizontal	PASS
380.5205	22.69	-26.54	46.00	23.31	150	119	Horizontal	PASS
760.1702	25.31	-22.02	46.00	20.69	150	322	Horizontal	PASS



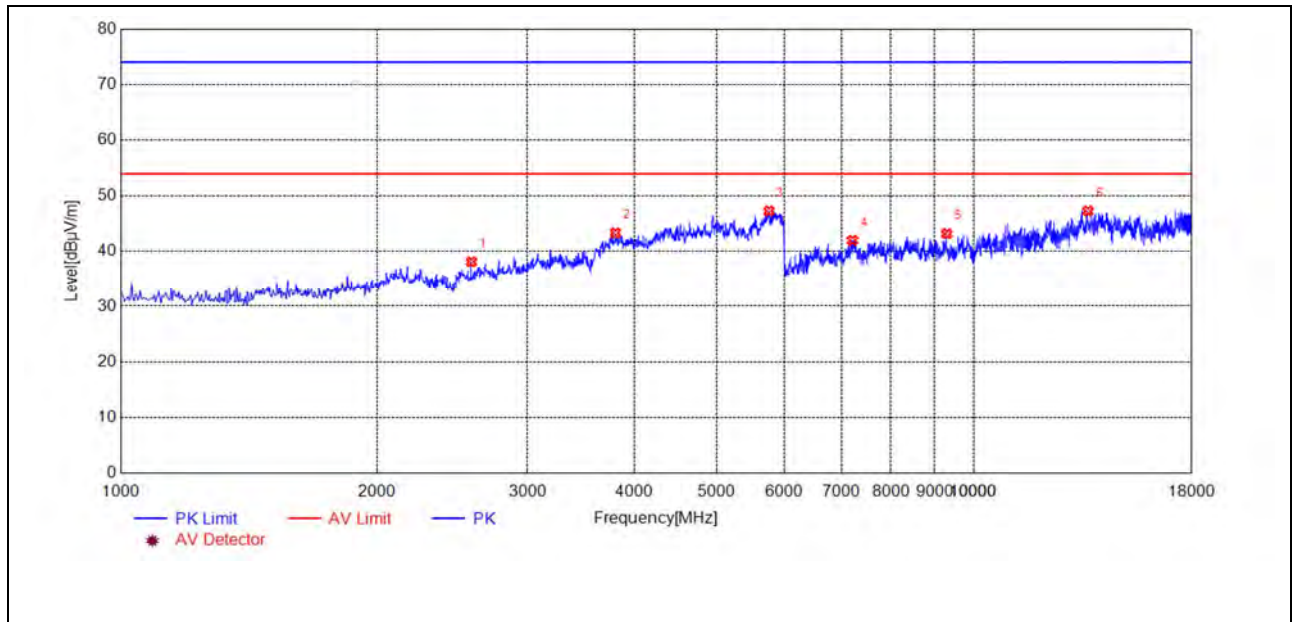
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2537.1074	38.63	-19.86	74.00	35.37	150	73	Horizontal	PASS
3669.5339	42.26	-16.23	74.00	31.74	150	15	Horizontal	PASS
5947.9896	48.44	-6.32	74.00	25.56	150	283	Horizontal	PASS
7202.8406	43.59	-2.98	74.00	30.41	150	174	Horizontal	PASS
11015.0030	45.25	3.09	74.00	28.75	150	350	Horizontal	PASS
13623.3247	47.52	6.37	74.00	26.48	150	191	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

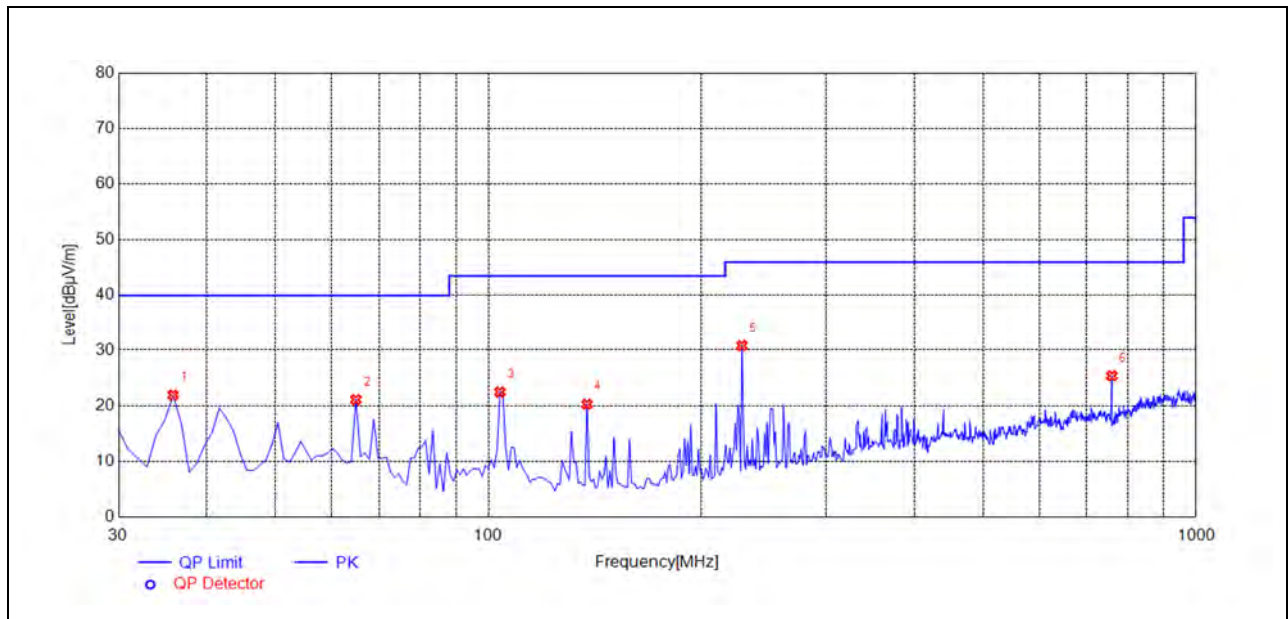
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	22.94	-36.91	40.00	17.06	150	351	Vertical	PASS
41.6517	22.51	-29.90	40.00	17.49	150	104	Vertical	PASS
82.4324	26.92	-33.46	40.00	13.08	150	170	Vertical	PASS
134.8649	20.79	-33.83	43.50	22.71	150	18	Vertical	PASS
264.0040	25.32	-30.48	46.00	20.68	150	278	Vertical	PASS
679.5796	23.13	-21.83	46.00	22.87	150	360	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

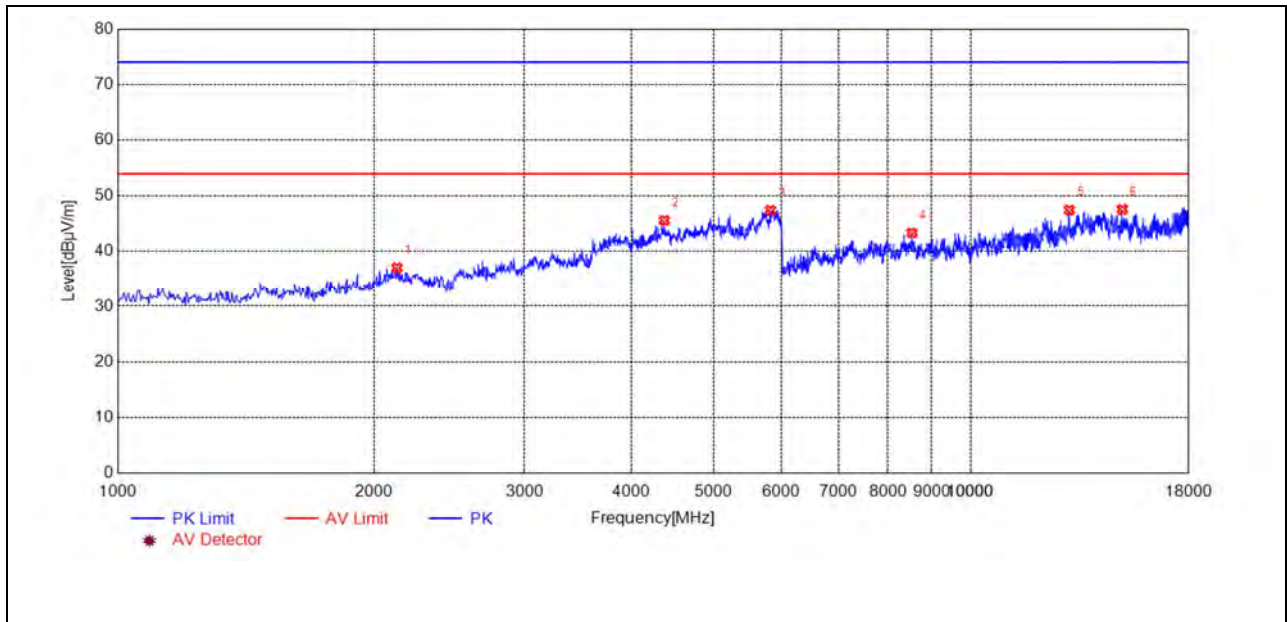
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2577.9156	38.14	-19.89	74.00	35.86	150	52	Vertical	PASS
3802.1604	43.38	-14.41	74.00	30.62	150	2	Vertical	PASS
5754.1508	47.33	-6.86	74.00	26.67	150	328	Vertical	PASS
7209.6419	42.01	-2.92	74.00	31.99	150	52	Vertical	PASS
9297.6595	43.22	1.38	74.00	30.78	150	294	Vertical	PASS
13609.7219	47.33	7.12	74.00	26.67	150	118	Vertical	PASS

Plot for Channel 78



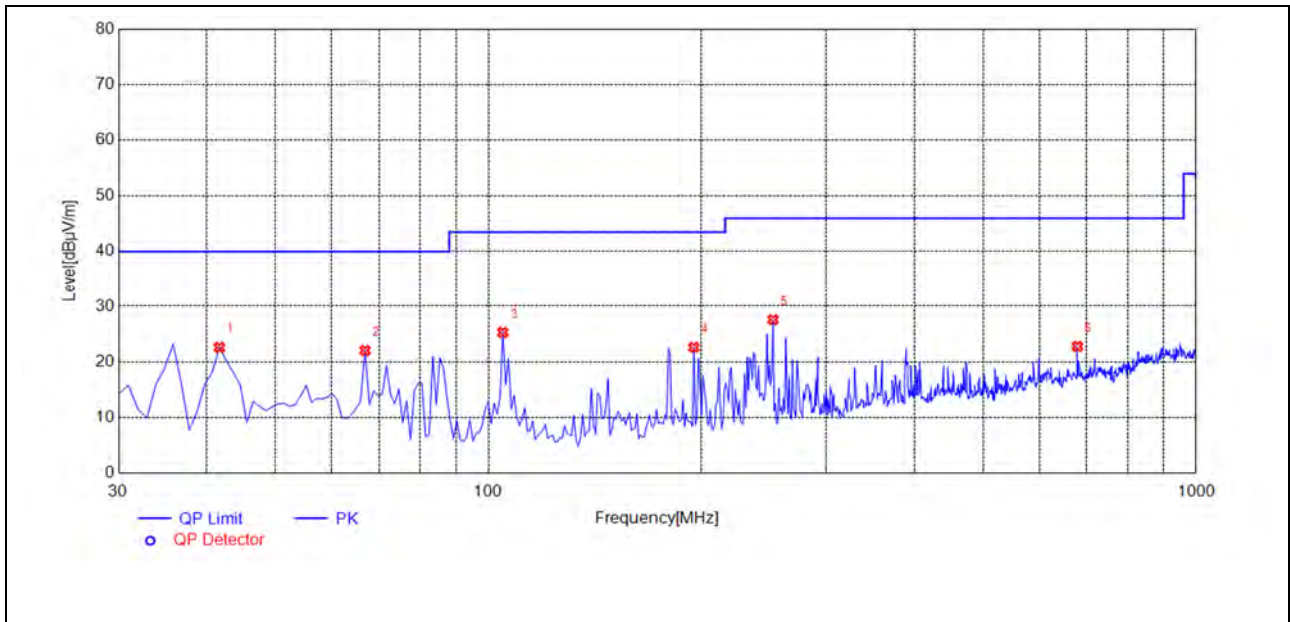
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	21.90	-36.91	40.00	18.10	150	18	Horizontal	PASS
64.9550	21.08	-30.25	40.00	18.92	150	75	Horizontal	PASS
103.7938	22.44	-30.69	43.50	21.06	150	315	Horizontal	PASS
137.7778	20.28	-34.31	43.50	23.22	150	272	Horizontal	PASS
228.0781	30.78	-31.16	46.00	15.22	150	126	Horizontal	PASS
760.1702	25.36	-22.02	46.00	20.64	150	337	Horizontal	PASS



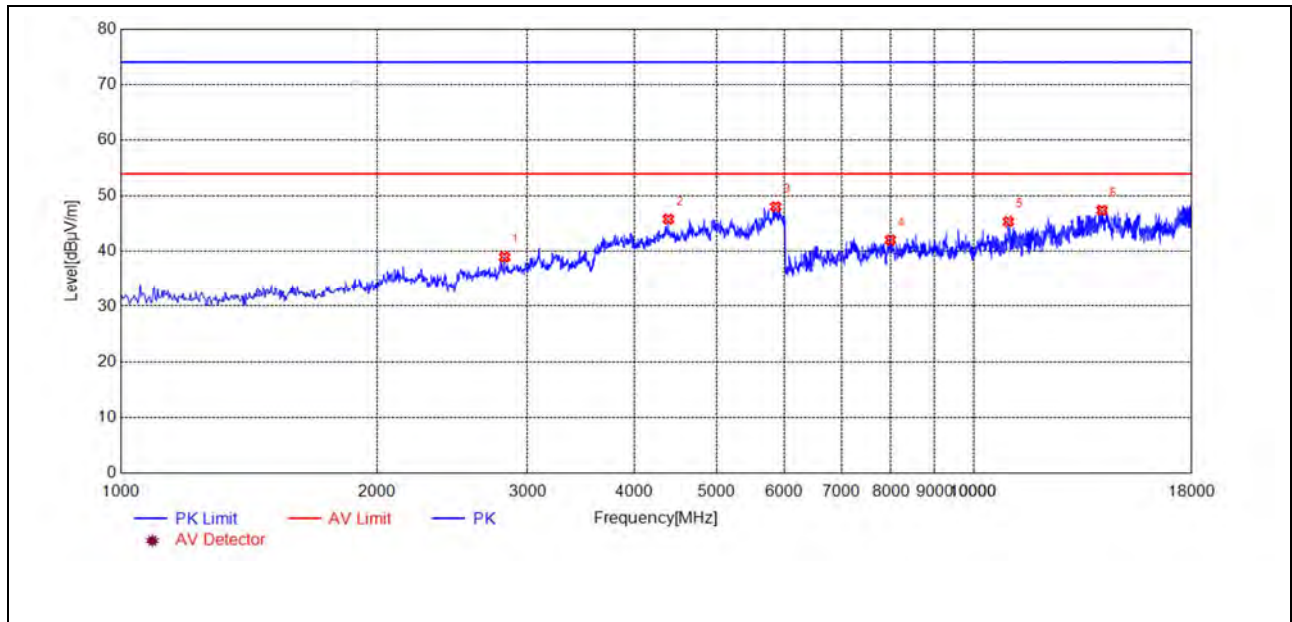
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2125.6251	37.06	-20.27	74.00	36.94	150	295	Horizontal	PASS
4373.4747	45.61	-11.99	74.00	28.39	150	312	Horizontal	PASS
5825.5651	47.43	-7.61	74.00	26.57	150	236	Horizontal	PASS
8532.5065	43.35	-1.39	74.00	30.65	150	219	Horizontal	PASS
13048.6097	47.47	6.51	74.00	26.53	150	228	Horizontal	PASS
15051.6103	47.59	6.48	74.00	26.41	150	51	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
41.6517	22.59	-29.90	40.00	17.41	150	255	Vertical	PASS
66.8969	22.02	-30.98	40.00	17.98	150	226	Vertical	PASS
104.7648	25.26	-30.84	43.50	18.24	150	15	Vertical	PASS
195.0651	22.60	-32.26	43.50	20.90	150	262	Vertical	PASS
252.3524	27.54	-30.33	46.00	18.46	150	182	Vertical	PASS
679.5796	22.78	-21.83	46.00	23.22	150	153	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

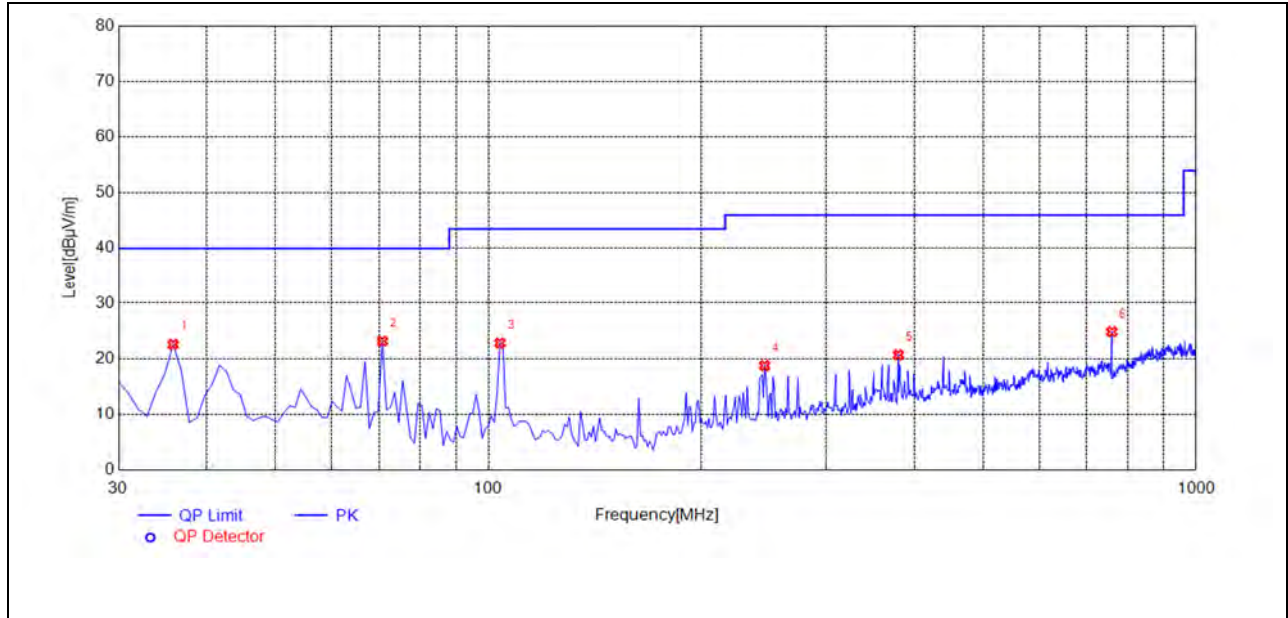
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2819.3639	39.00	-18.72	74.00	35.00	150	32	Vertical	PASS
4387.0774	45.84	-12.02	74.00	28.16	150	300	Vertical	PASS
5859.5719	48.07	-6.94	74.00	25.93	150	183	Vertical	PASS
7984.9970	42.08	-2.64	74.00	31.92	150	216	Vertical	PASS
10977.5955	45.40	3.15	74.00	28.60	150	90	Vertical	PASS
14133.4267	47.44	6.47	74.00	26.56	150	333	Vertical	PASS



Right

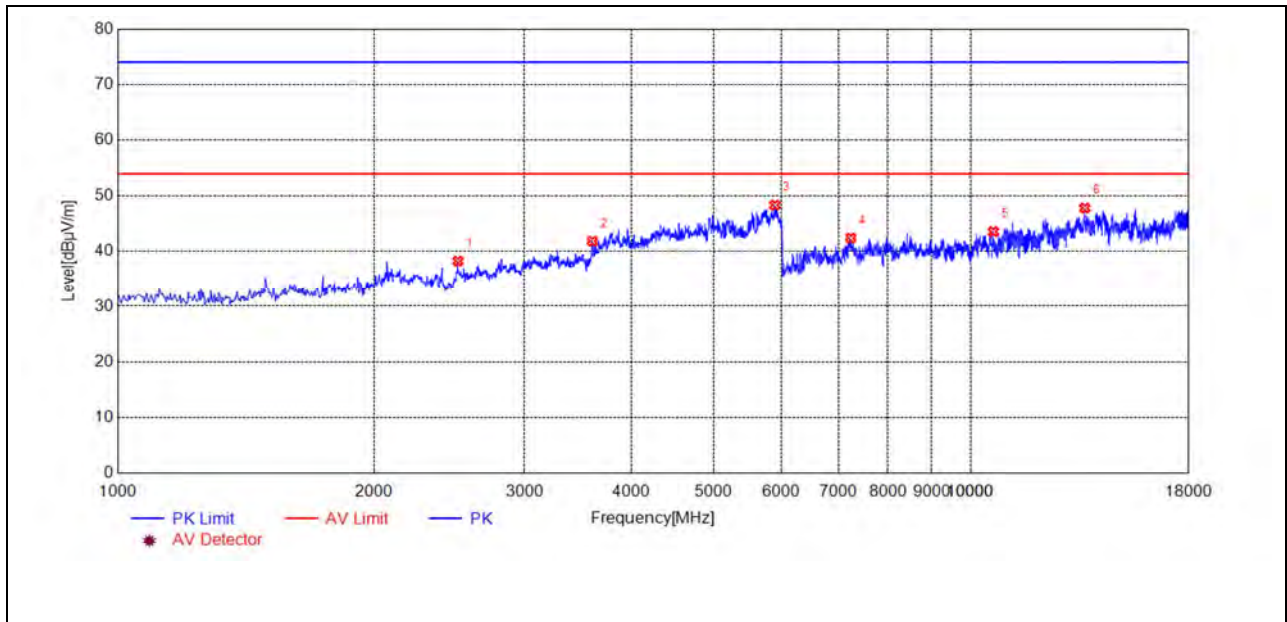
GFSK Mode

Plot for Channel 0



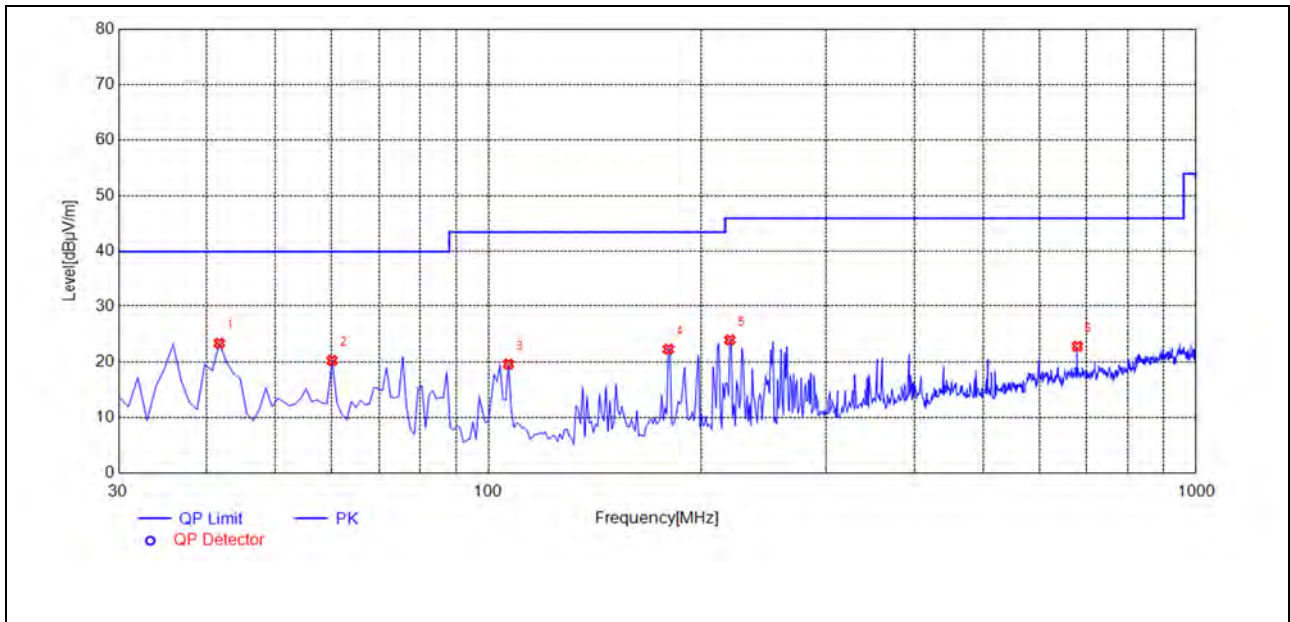
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	22.57	-36.91	40.00	17.43	150	47	Horizontal	PASS
70.7808	23.13	-32.25	40.00	16.87	150	76	Horizontal	PASS
103.7938	22.80	-30.69	43.50	20.70	150	359	Horizontal	PASS
245.5556	18.75	-30.48	46.00	27.25	150	330	Horizontal	PASS
379.5496	20.68	-26.55	46.00	25.32	150	192	Horizontal	PASS
760.1702	24.83	-22.02	46.00	21.17	150	301	Horizontal	PASS



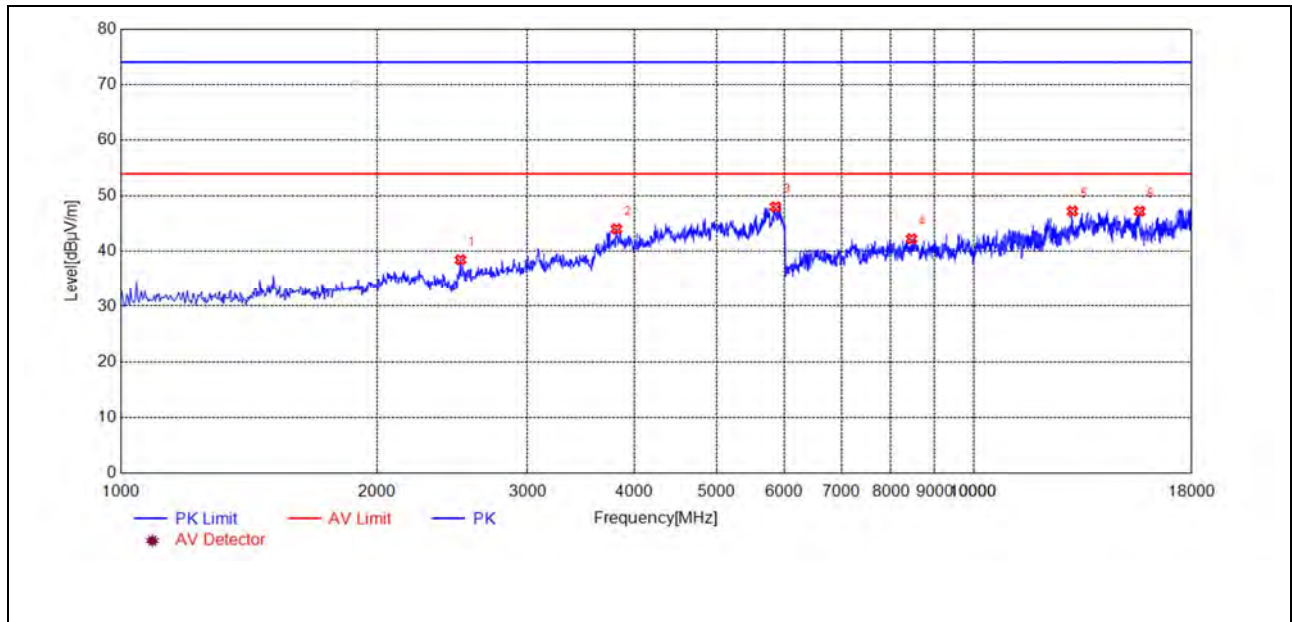
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2506.5013	38.27	-19.57	74.00	35.73	150	236	Horizontal	PASS
3601.5203	41.86	-15.69	74.00	32.14	150	345	Horizontal	PASS
5893.5787	48.36	-7.01	74.00	25.64	150	244	Horizontal	PASS
7233.4467	42.44	-2.72	74.00	31.56	150	50	Horizontal	PASS
10630.7261	43.60	3.05	74.00	30.40	150	8	Horizontal	PASS
13606.3213	47.84	7.31	74.00	26.16	150	0	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

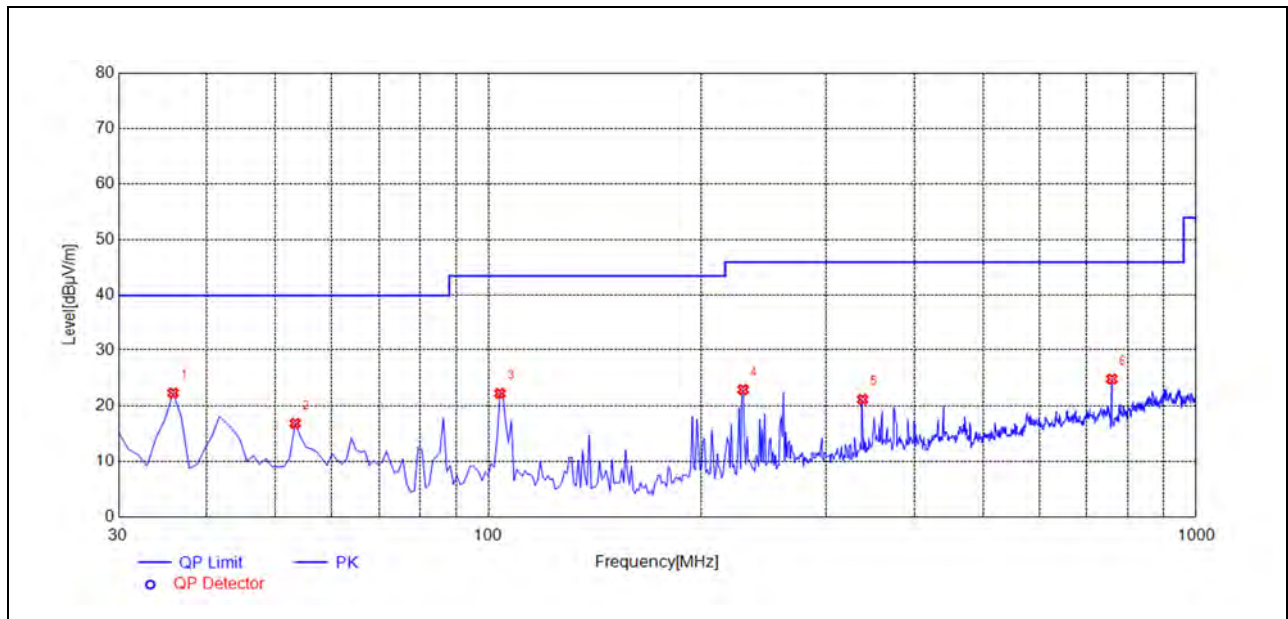
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
41.6517	23.32	-29.90	40.00	16.68	150	219	Vertical	PASS
60.1001	20.24	-29.65	40.00	19.76	150	183	Vertical	PASS
106.7067	19.58	-30.84	43.50	23.92	150	226	Vertical	PASS
179.5295	22.26	-33.34	43.50	21.24	150	248	Vertical	PASS
219.3393	23.94	-31.44	46.00	22.06	150	147	Vertical	PASS
679.5796	22.80	-21.83	46.00	23.20	150	132	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

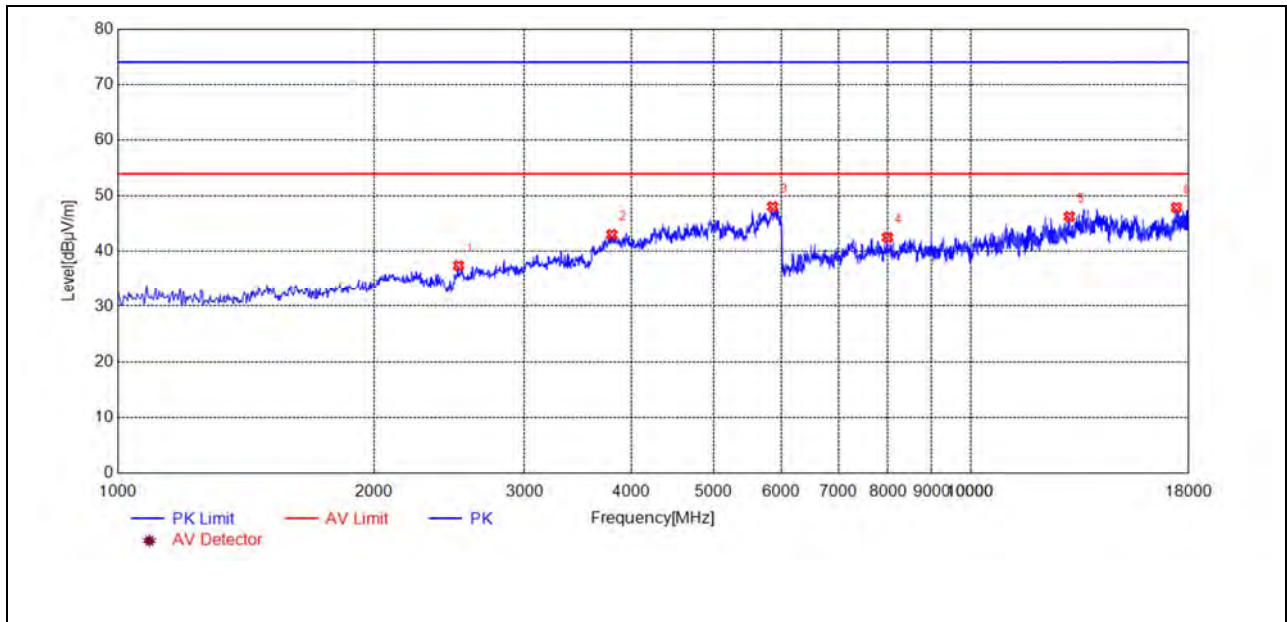
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2503.1006	38.52	-19.54	74.00	35.48	150	191	Vertical	PASS
3812.3625	44.08	-14.41	74.00	29.92	150	334	Vertical	PASS
5856.1712	48.05	-6.93	74.00	25.95	150	325	Vertical	PASS
8454.2909	42.29	-2.32	74.00	31.71	150	23	Vertical	PASS
13048.6097	47.27	6.51	74.00	26.73	150	250	Vertical	PASS
15646.7293	47.26	6.60	74.00	26.74	150	224	Vertical	PASS

Plot for Channel 39



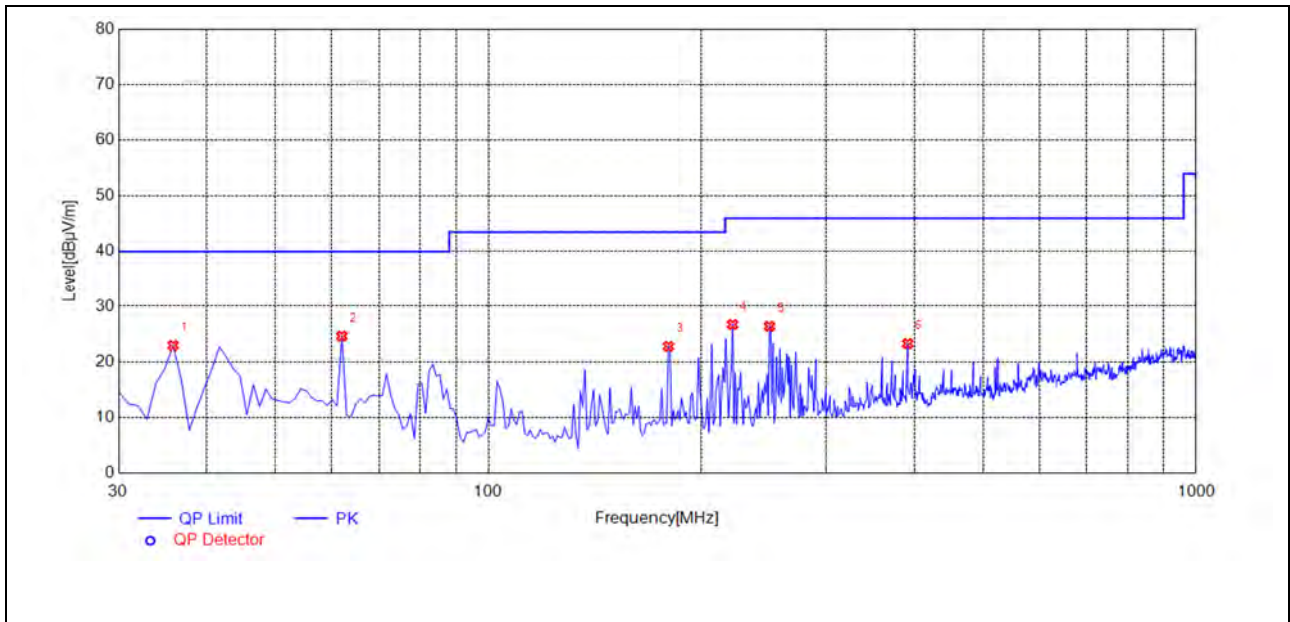
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	22.27	-36.91	40.00	17.73	150	59	Horizontal	PASS
53.3033	16.83	-28.68	40.00	23.17	150	87	Horizontal	PASS
103.7938	22.20	-30.69	43.50	21.30	150	175	Horizontal	PASS
229.0490	22.88	-30.93	46.00	23.12	150	292	Horizontal	PASS
337.7978	21.13	-27.58	46.00	24.87	150	299	Horizontal	PASS
760.1702	24.77	-22.02	46.00	21.23	150	0	Horizontal	PASS



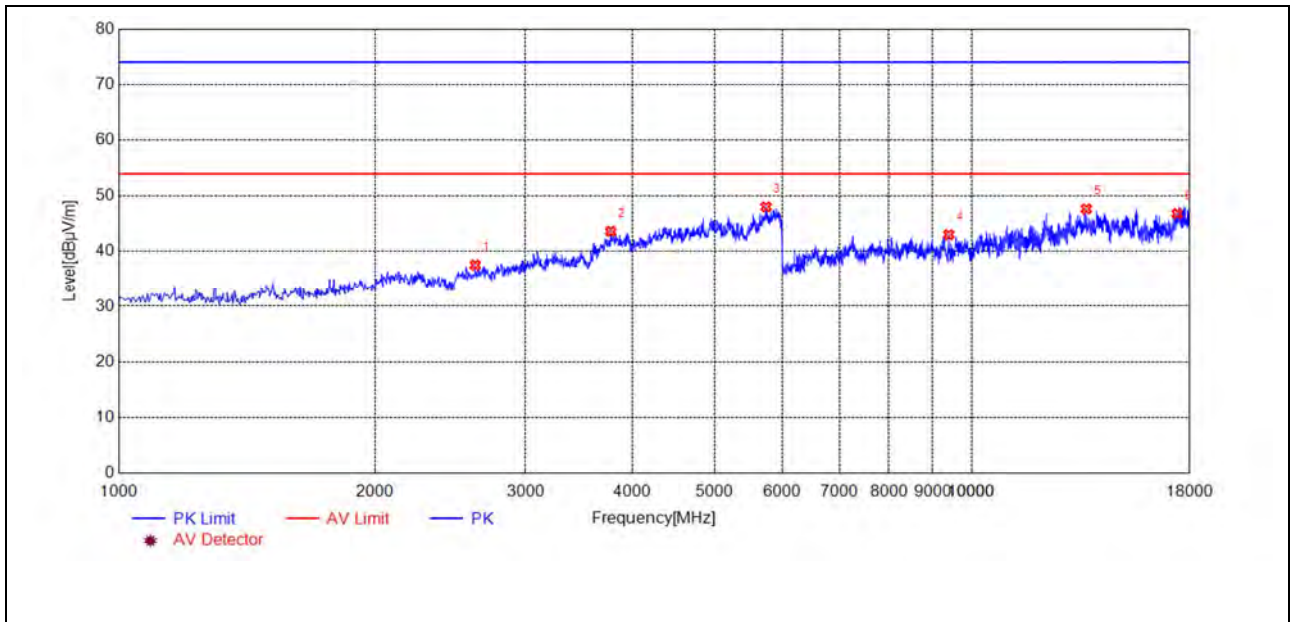
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2509.9020	37.44	-19.60	74.00	36.56	150	228	Horizontal	PASS
3795.3591	43.04	-14.50	74.00	30.96	150	69	Horizontal	PASS
5859.5719	48.06	-6.94	74.00	25.94	150	77	Horizontal	PASS
7988.3977	42.53	-2.66	74.00	31.47	150	212	Horizontal	PASS
13048.6097	46.29	6.51	74.00	27.71	150	2	Horizontal	PASS
17418.4837	47.92	9.08	74.00	26.08	150	270	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

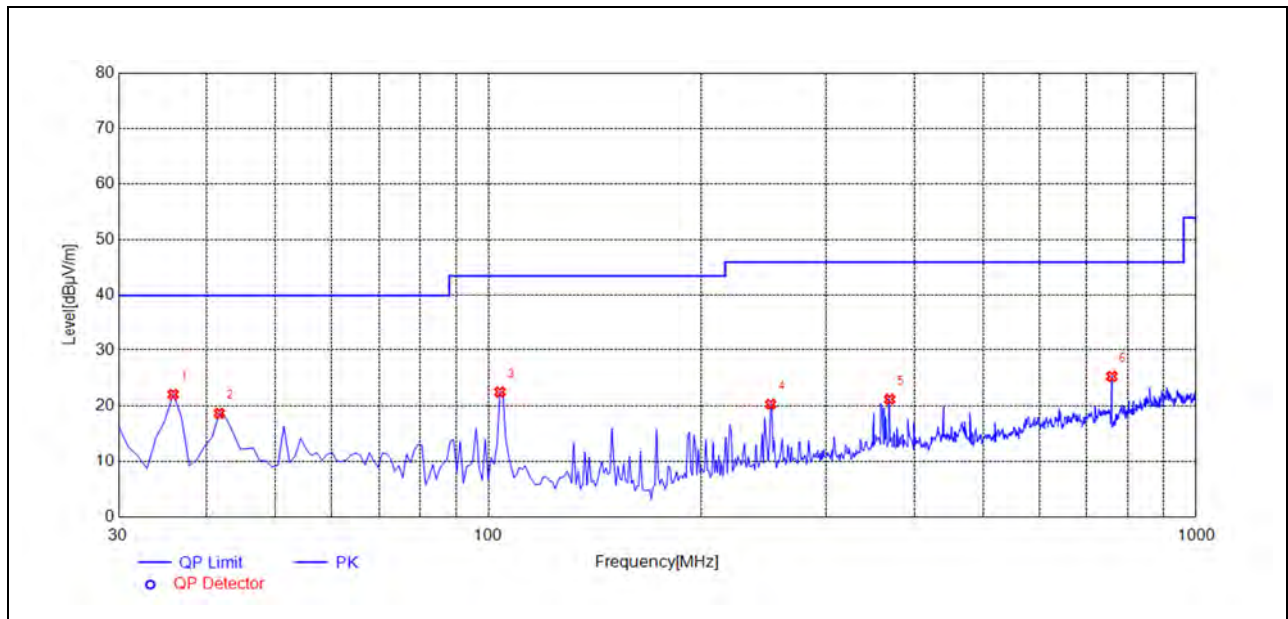
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	22.93	-36.91	40.00	17.07	150	31	Vertical	PASS
62.0420	24.63	-29.99	40.00	15.37	150	240	Vertical	PASS
179.5295	22.77	-33.34	43.50	20.73	150	335	Vertical	PASS
221.2813	26.70	-31.50	46.00	19.30	150	132	Vertical	PASS
249.4394	26.37	-30.32	46.00	19.63	150	146	Vertical	PASS
391.2012	23.27	-25.97	46.00	22.73	150	262	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

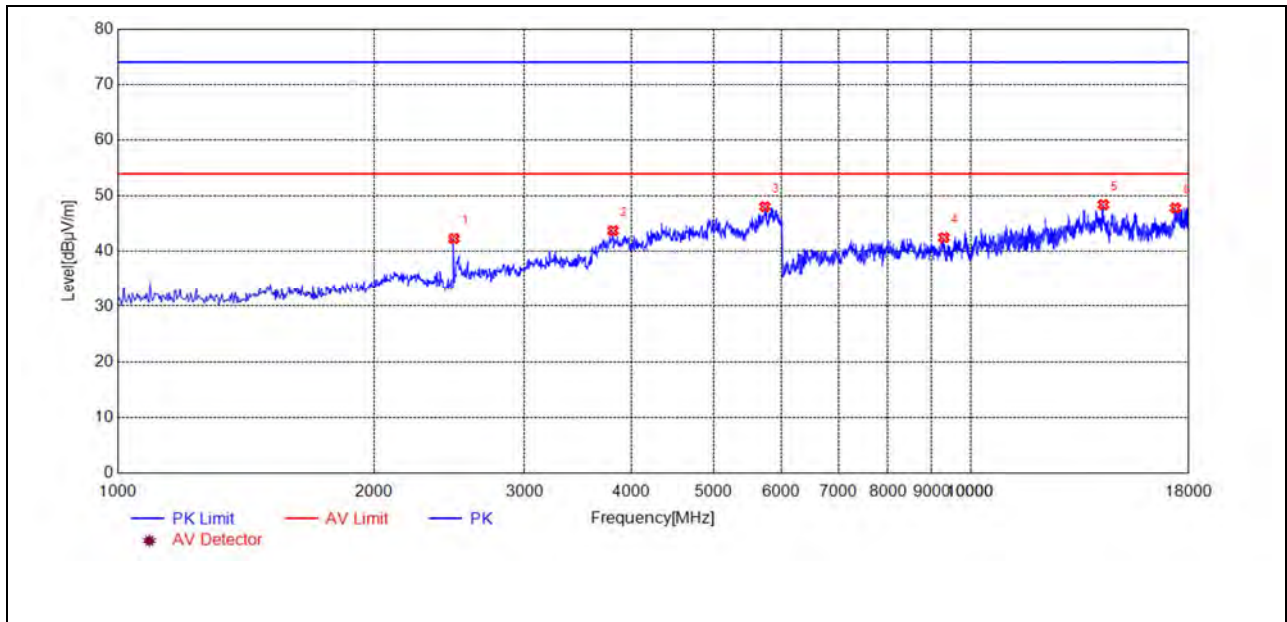
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2618.7237	37.55	-19.66	74.00	36.45	150	358	Vertical	PASS
3774.9550	43.65	-14.91	74.00	30.35	150	174	Vertical	PASS
5740.5481	48.05	-6.88	74.00	25.95	150	258	Vertical	PASS
9399.6799	43.02	0.33	74.00	30.98	150	325	Vertical	PASS
13619.9240	47.68	6.56	74.00	26.32	150	23	Vertical	PASS
17404.8810	46.84	9.36	74.00	27.16	150	116	Vertical	PASS

Plot for Channel 78



(Antenna Horizontal, 30MHz to 1GHz)

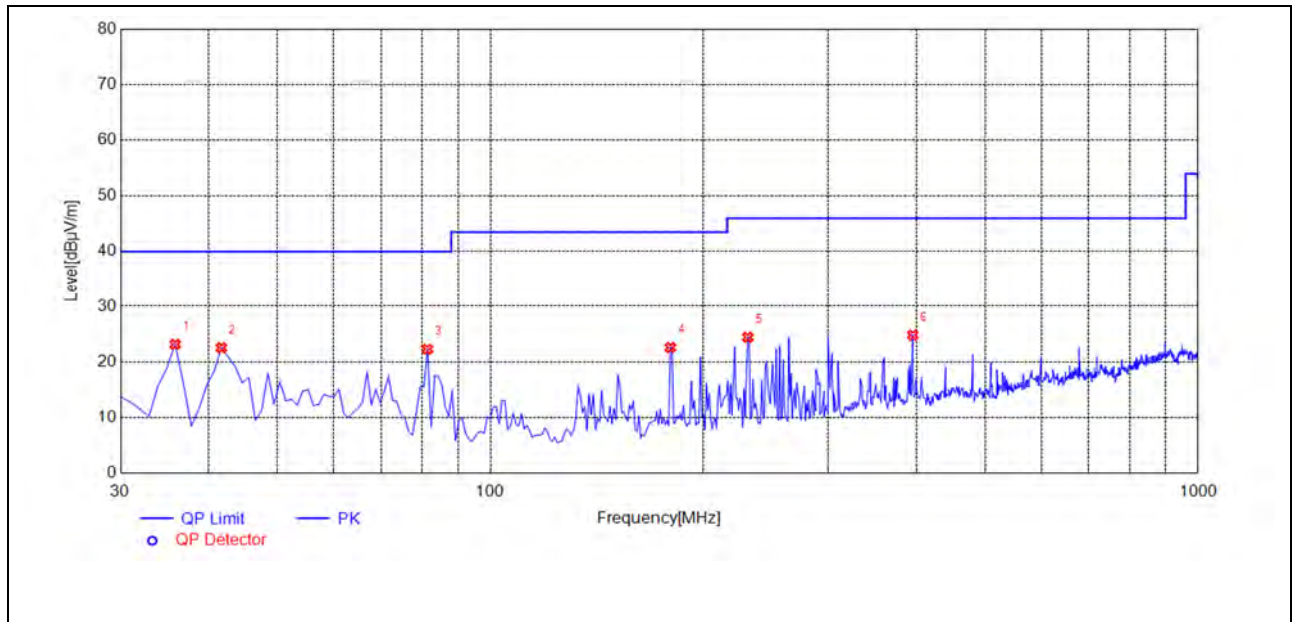
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	22.03	-36.91	40.00	17.97	150	257	Horizontal	PASS
41.6517	18.65	-29.90	40.00	21.35	150	39	Horizontal	PASS
103.7938	22.45	-30.69	43.50	21.05	150	98	Horizontal	PASS
250.4104	20.27	-30.31	46.00	25.73	150	105	Horizontal	PASS
368.8689	21.16	-26.13	46.00	24.84	150	236	Horizontal	PASS
760.1702	25.24	-22.02	46.00	20.76	150	156	Horizontal	PASS



(Antenna Horizontal, 1GHz to 18GHz)

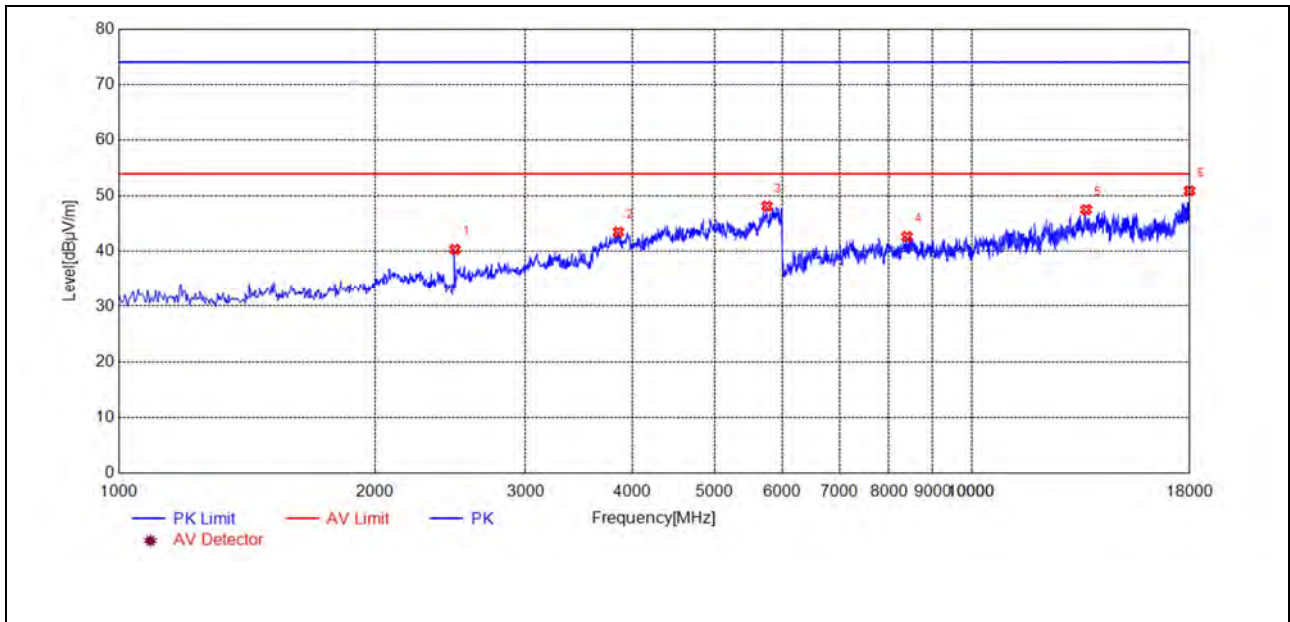
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2479.2959	42.32	-20.17	74.00	31.68	150	233	Horizontal	PASS
3808.9618	43.77	-14.41	74.00	30.23	150	325	Horizontal	PASS
5737.1474	48.07	-6.94	74.00	25.93	150	242	Horizontal	PASS
9301.0602	42.51	1.40	74.00	31.49	150	107	Horizontal	PASS
14303.4607	48.44	7.77	74.00	25.56	150	82	Horizontal	PASS
17377.6755	47.85	8.46	74.00	26.15	150	74	Horizontal	PASS





(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
35.8258	23.13	-36.91	40.00	16.87	150	18	Vertical	PASS
41.6517	22.54	-29.90	40.00	17.46	150	329	Vertical	PASS
81.4615	22.26	-33.57	40.00	17.74	150	249	Vertical	PASS
179.5295	22.57	-33.34	43.50	20.93	150	300	Vertical	PASS
230.9910	24.41	-30.70	46.00	21.59	150	140	Vertical	PASS
395.0851	24.79	-25.21	46.00	21.21	150	235	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
2479.2959	40.37	-20.17	74.00	33.63	150	345	Vertical	PASS
3853.1706	43.51	-14.46	74.00	30.49	150	270	Vertical	PASS
5754.1508	48.16	-6.86	74.00	25.84	150	253	Vertical	PASS
8396.4793	42.69	-2.22	74.00	31.31	150	60	Vertical	PASS
13616.5233	47.55	6.74	74.00	26.45	150	19	Vertical	PASS
18000.0000	50.93	13.41	74.00	23.07	150	102	Vertical	PASS



————— END OF REPORT —————