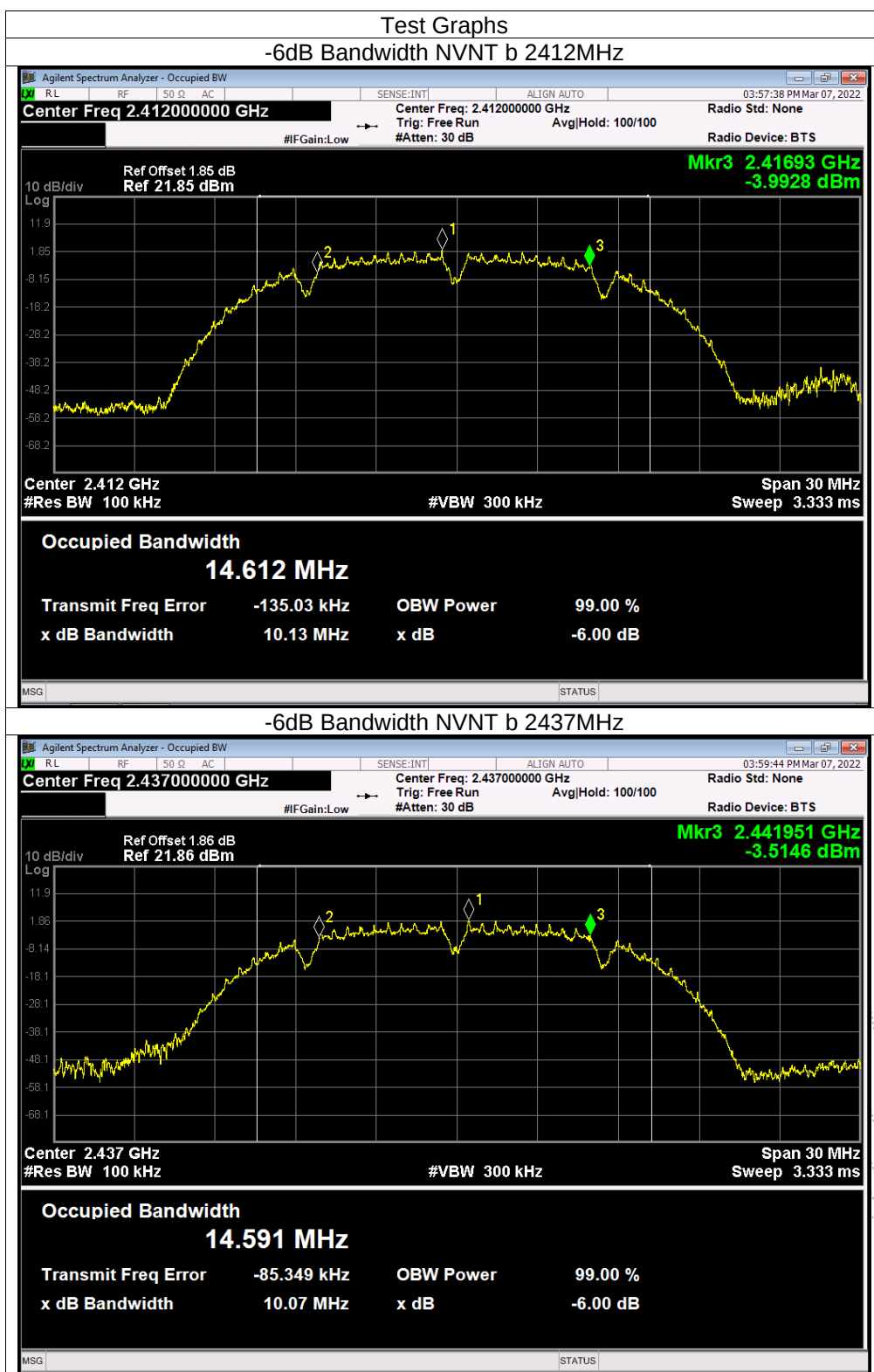
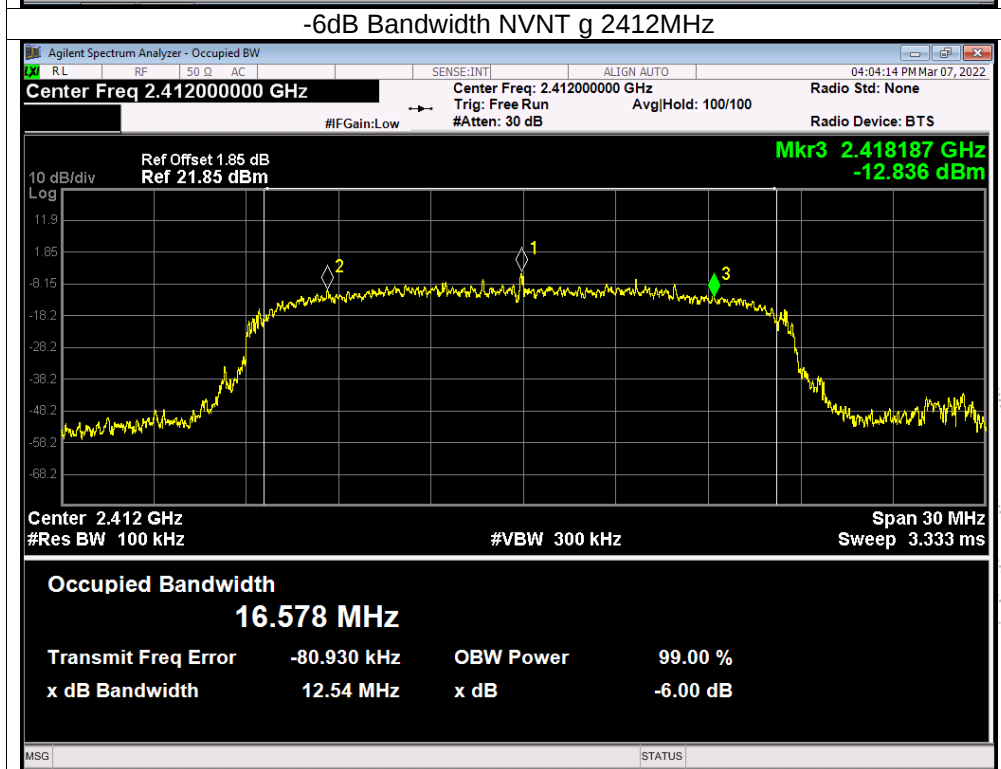
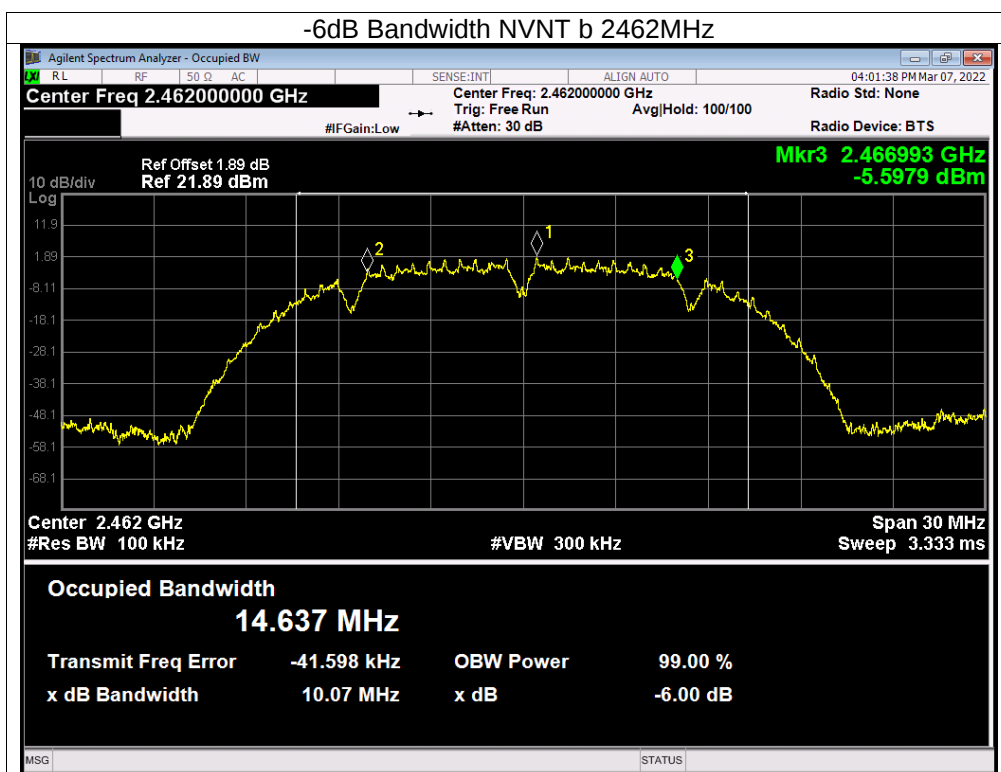
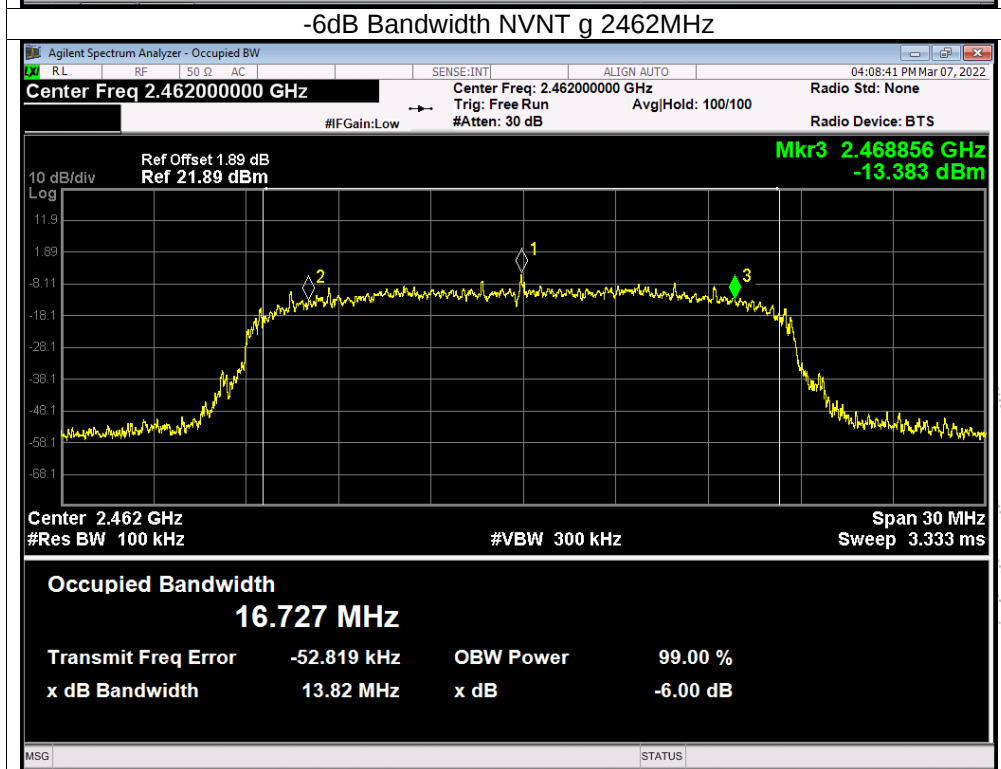
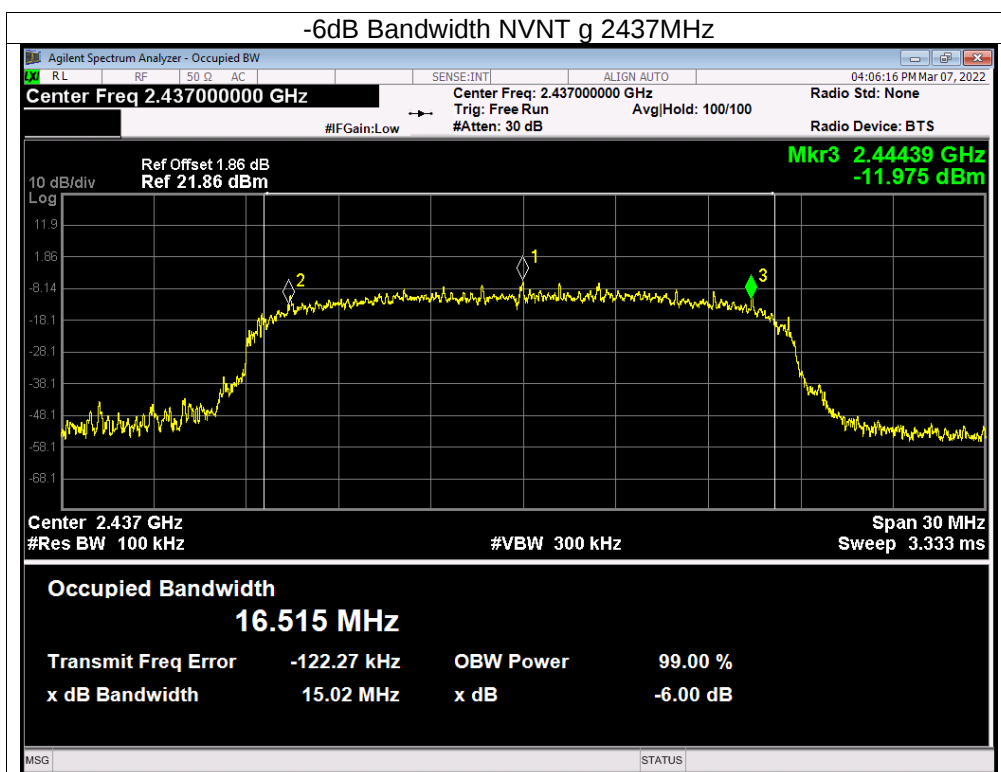
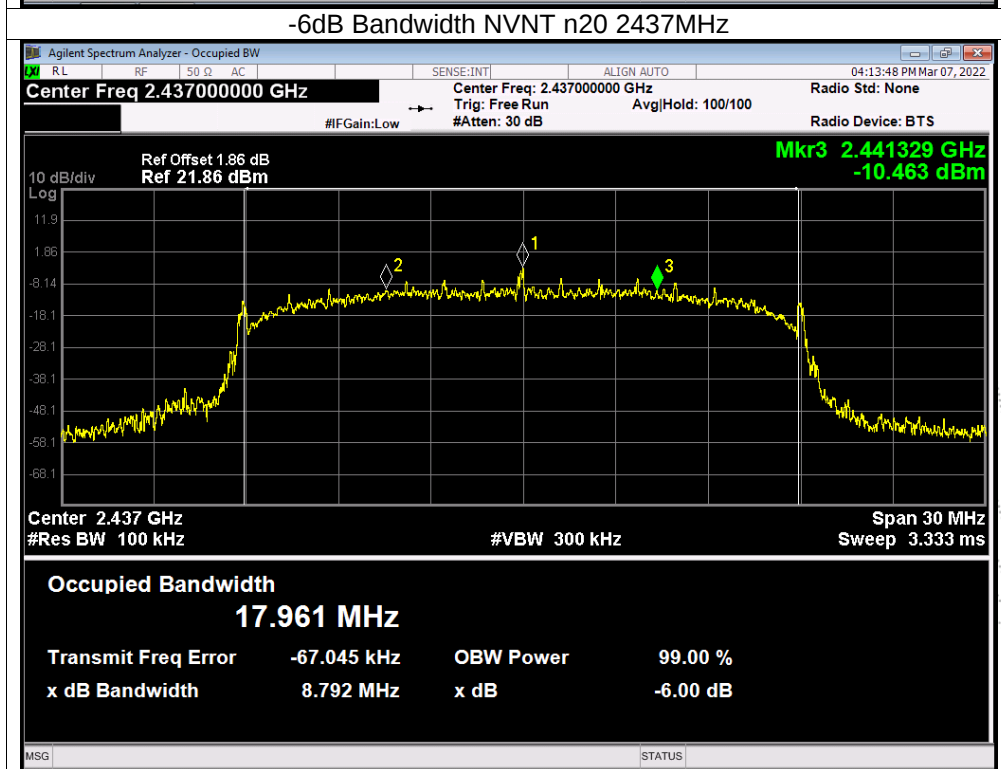
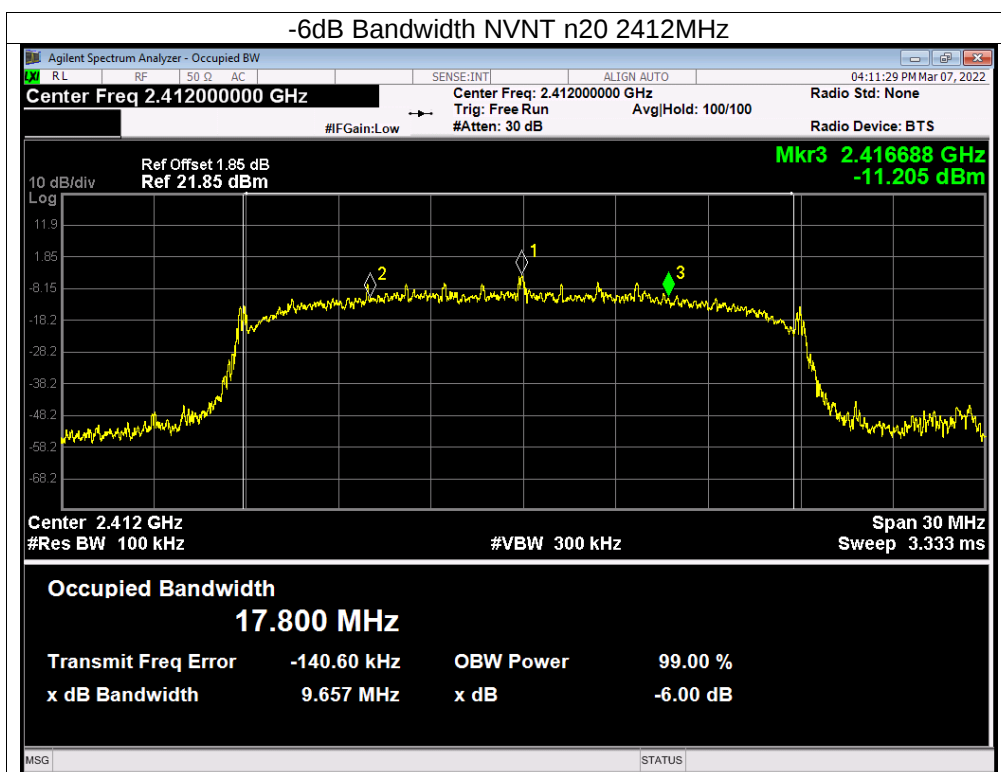
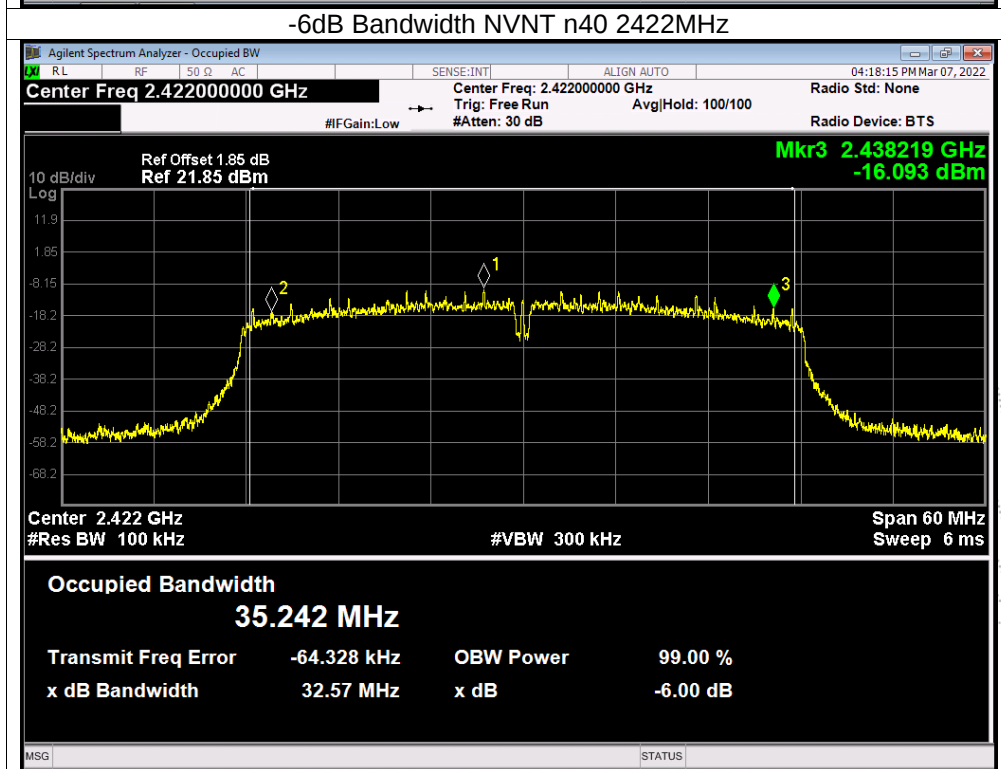
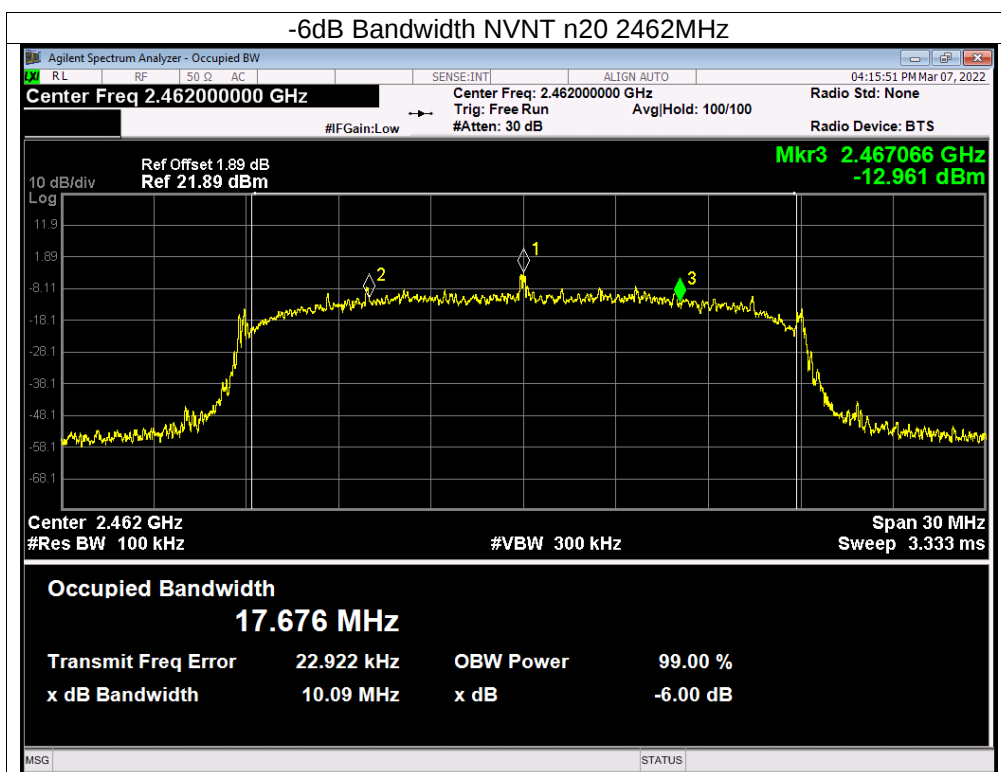


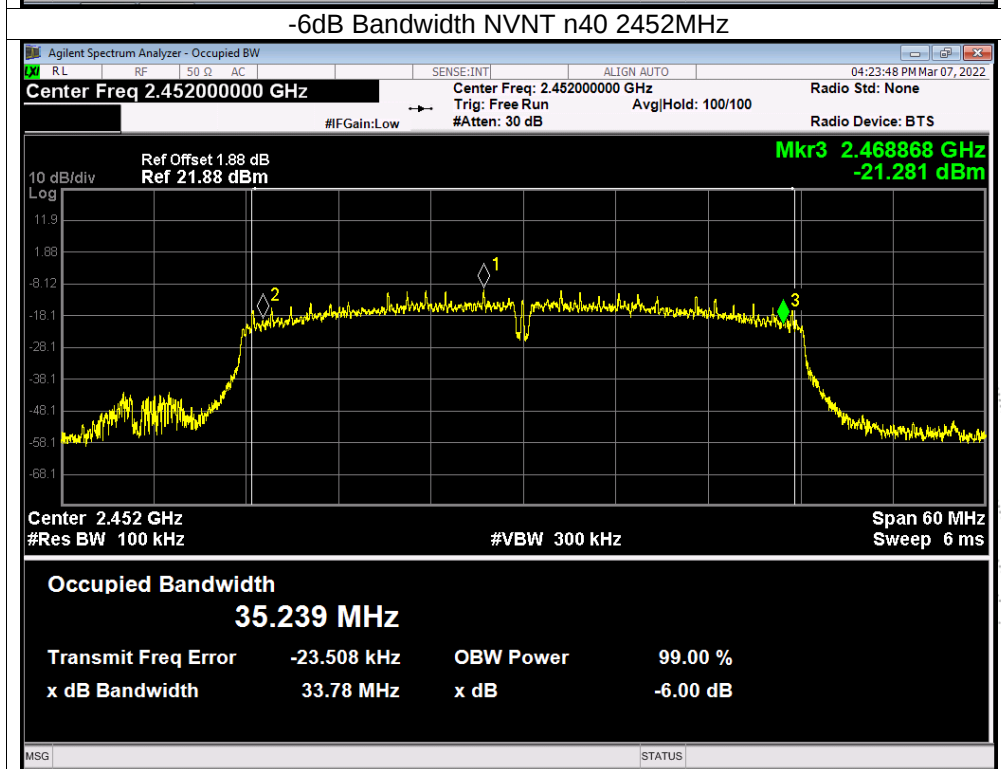
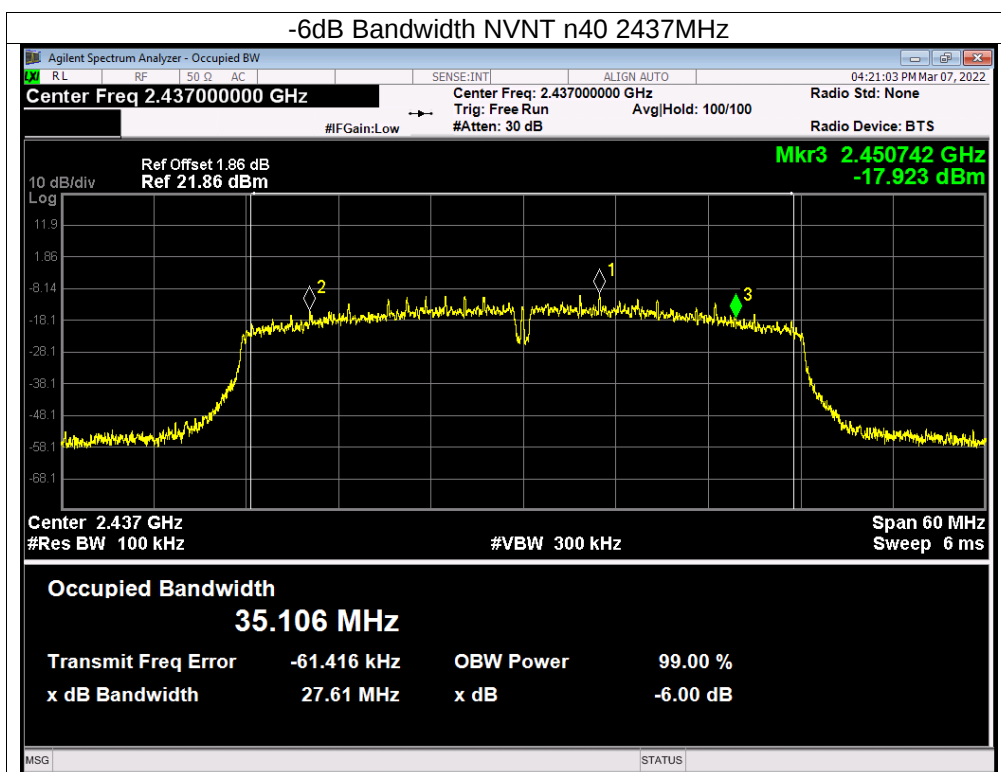












11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

- a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

11.5 Test Result

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	AC120V/60Hz

Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	13.47	0.04	13.51	30	Pass
b	2437	13.22	0.04	13.26	30	Pass
b	2462	12.99	0.04	13.03	30	Pass
g	2412	9.51	0.01	9.52	30	Pass
g	2437	9.11	0.02	9.13	30	Pass
g	2462	9.03	0.02	9.05	30	Pass
n20	2412	9.46	0.01	9.47	30	Pass
n20	2437	9.05	0.01	9.06	30	Pass
n20	2462	8.93	0.01	8.94	30	Pass
n40	2422	7.67	0	7.67	30	Pass
n40	2437	7.41	0	7.41	30	Pass
n40	2452	7.45	0	7.45	30	Pass

12. 100 KHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup



12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test Procedure

Using the following spectrum analyzer setting:

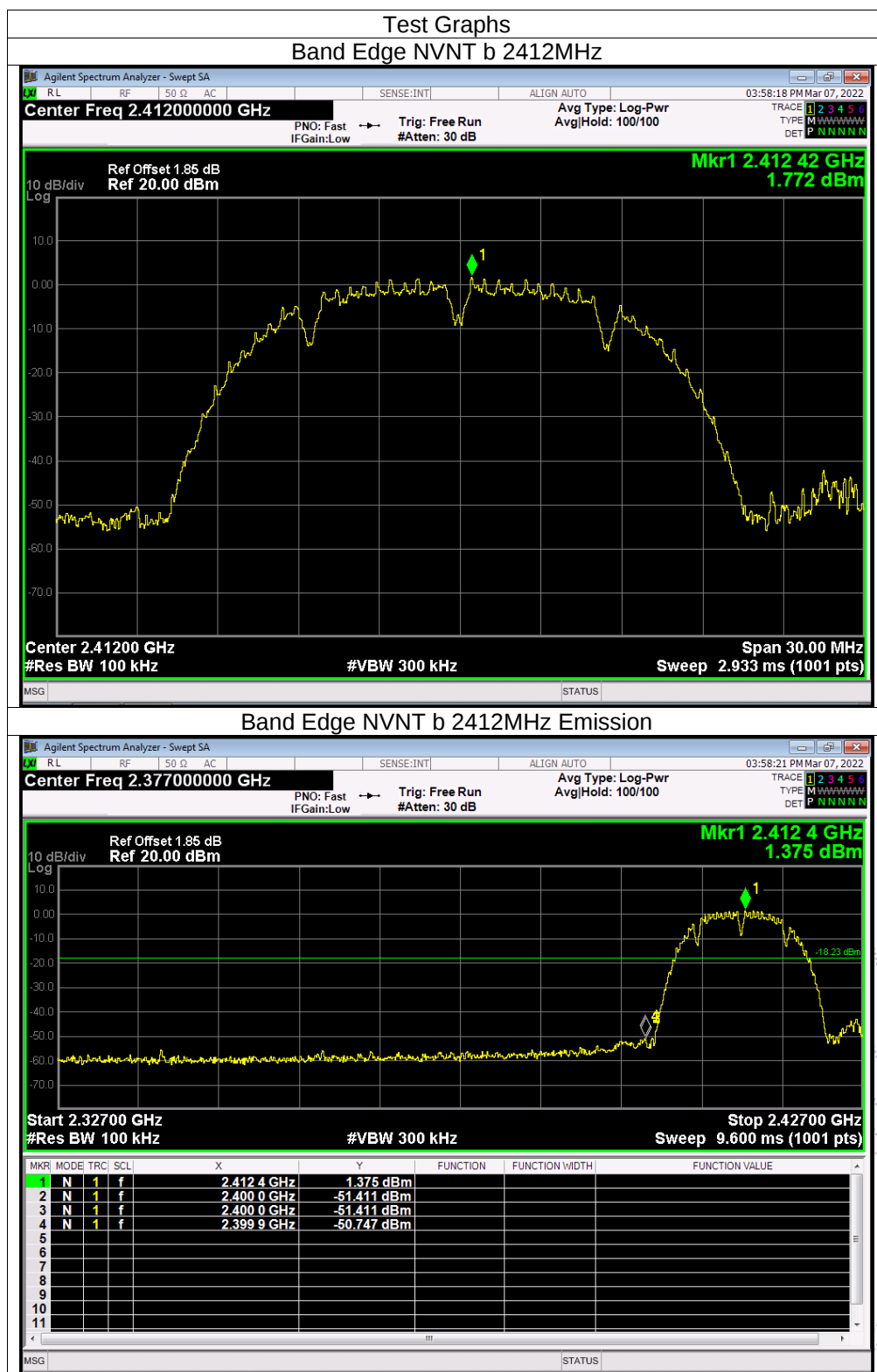
- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize..

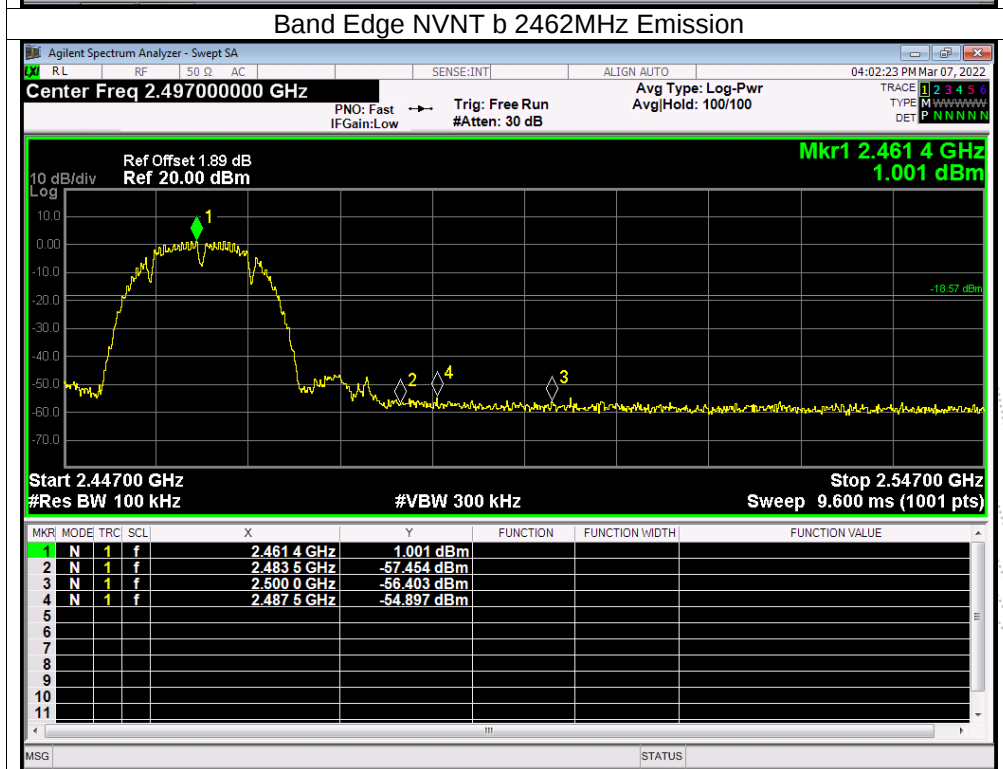
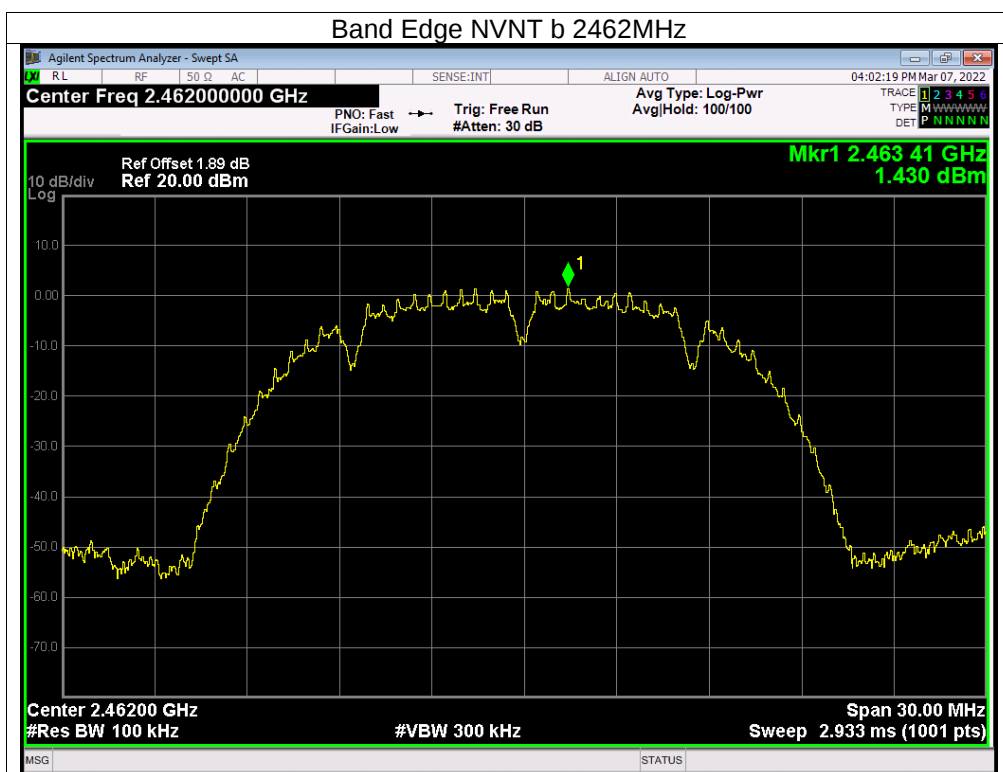
12.4 EUT Operating Conditions

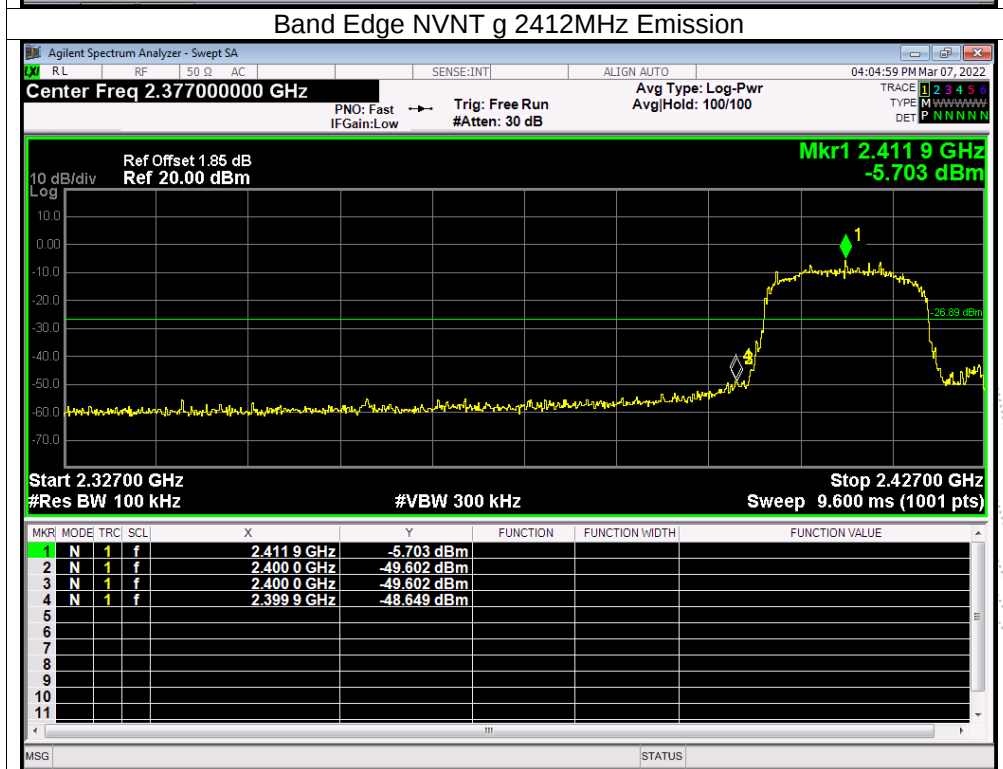
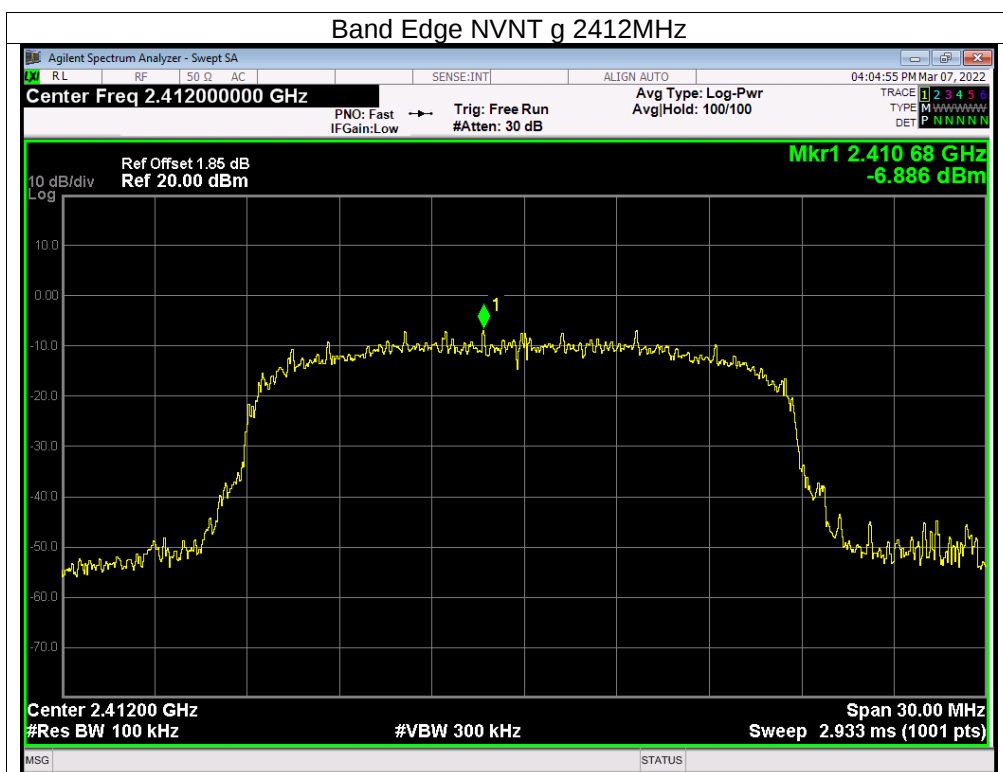
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

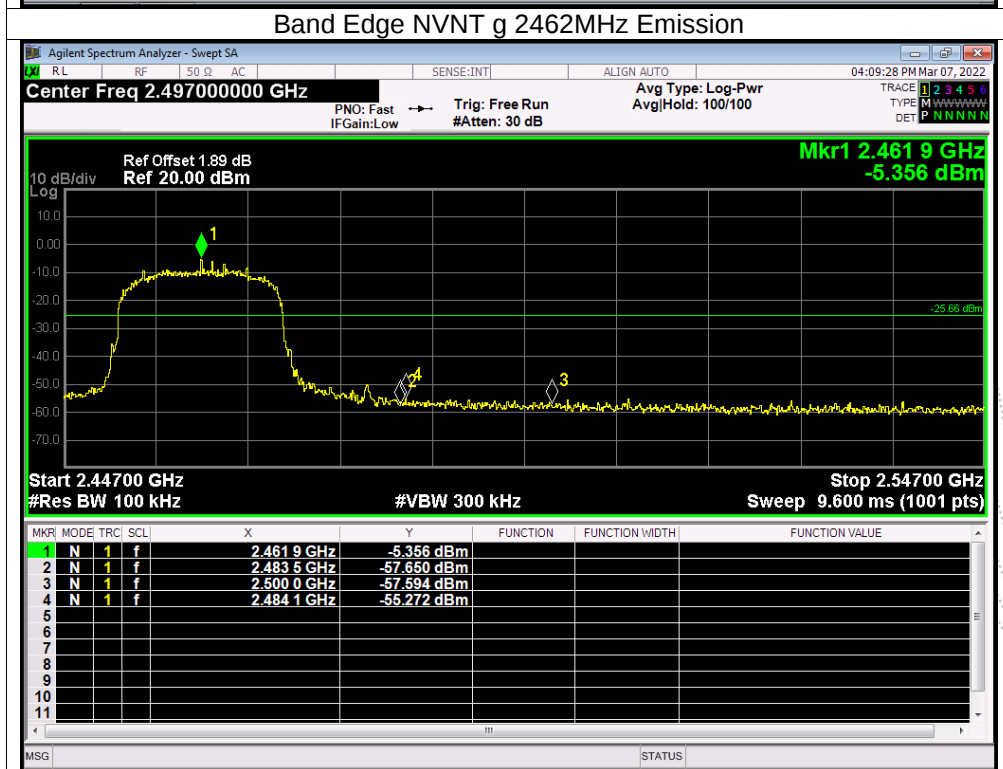
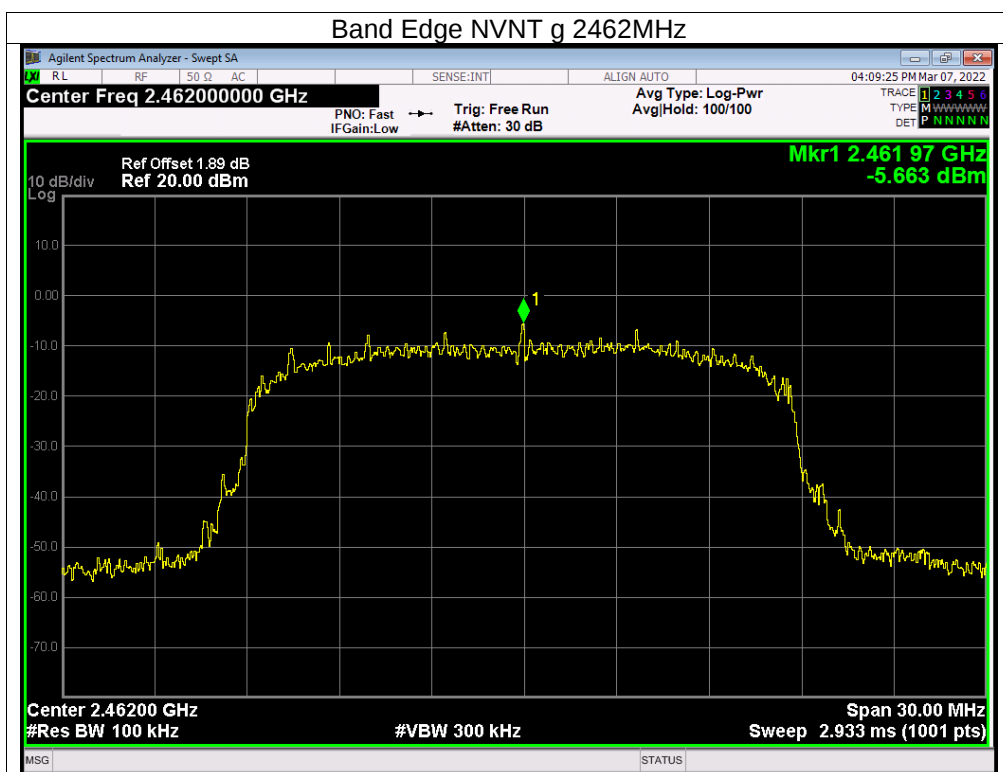
Note: Power Spectral Density(dBm)=Reading+Cable Loss

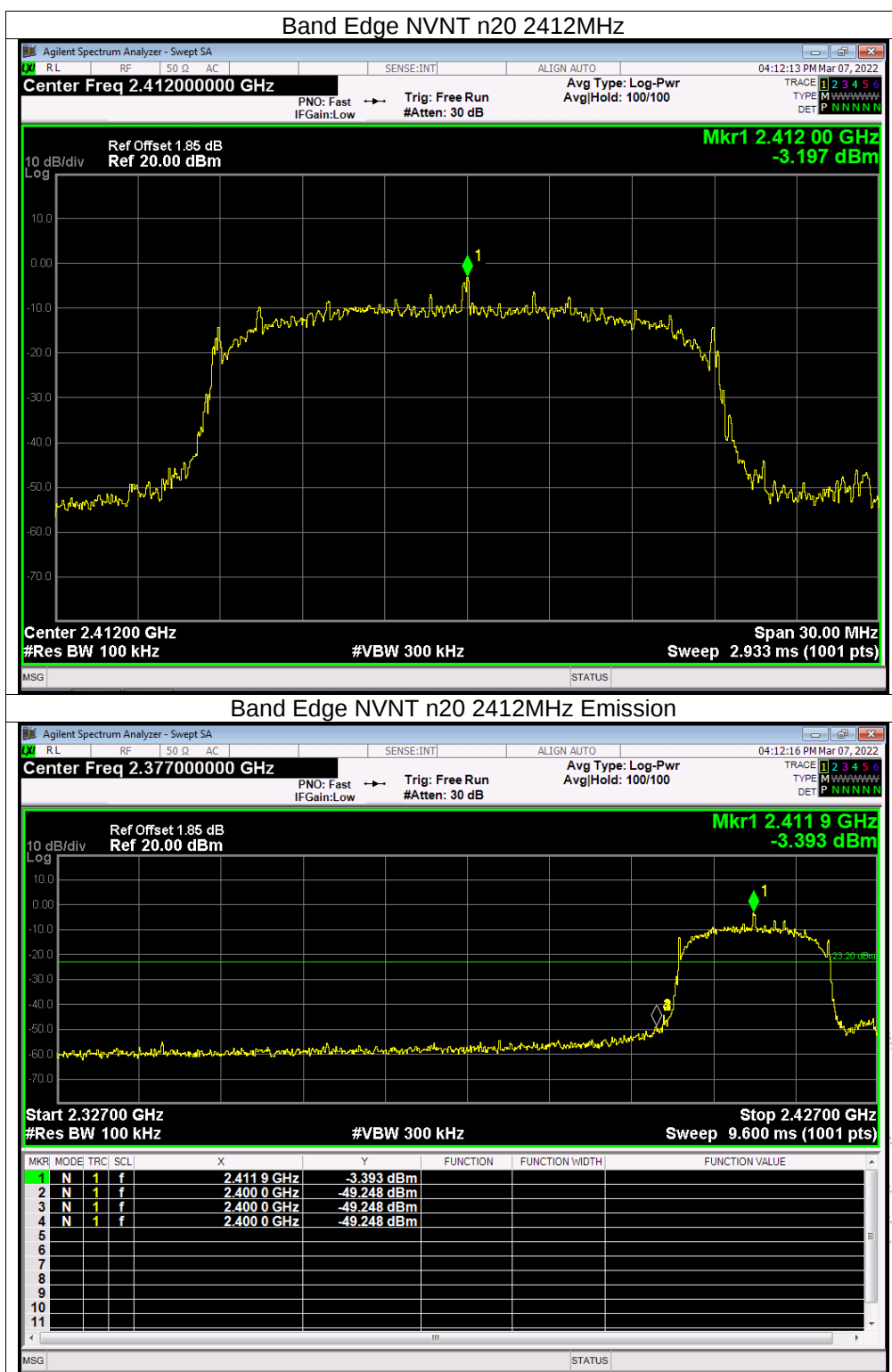
12.5 Test Result

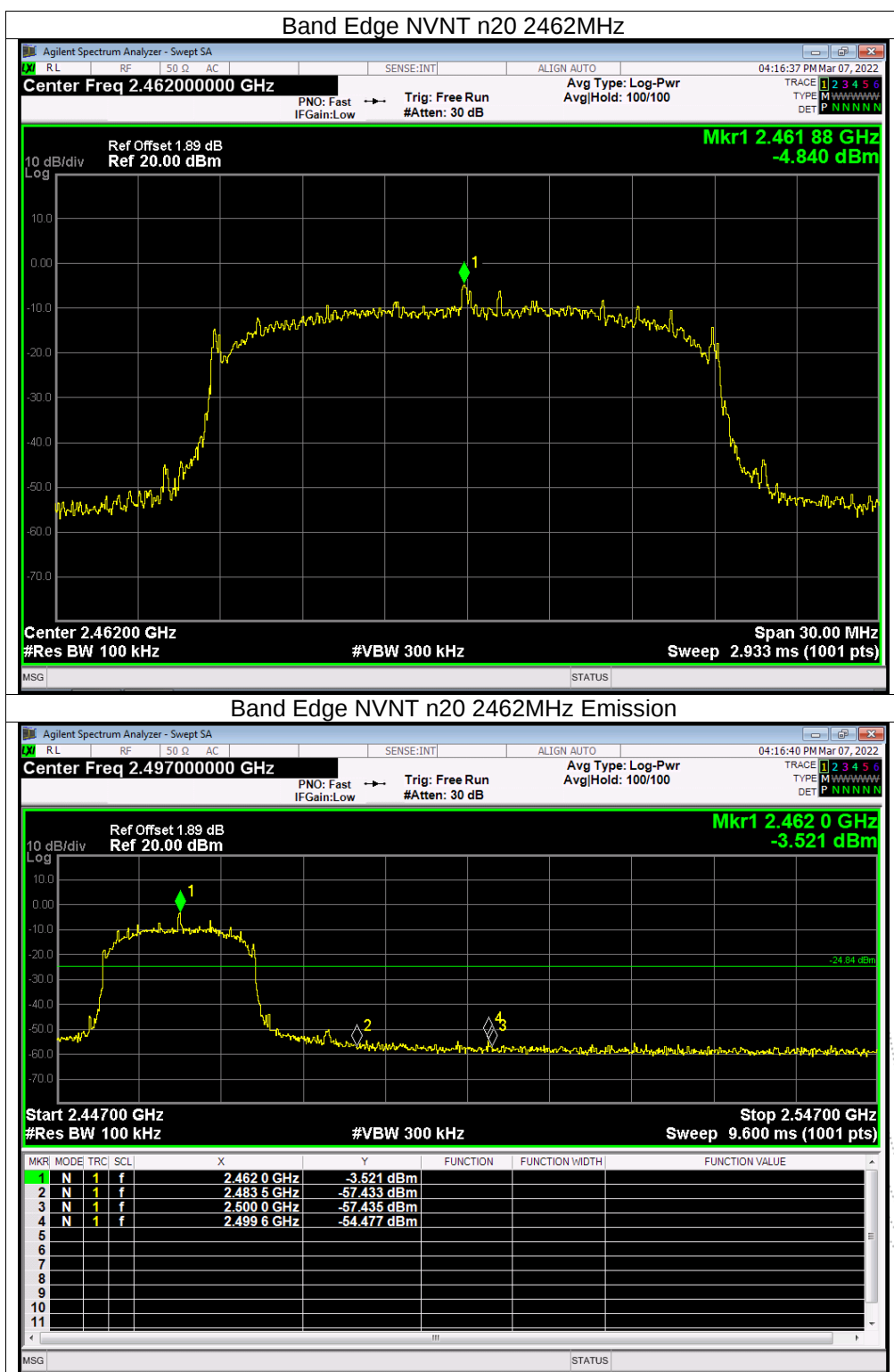


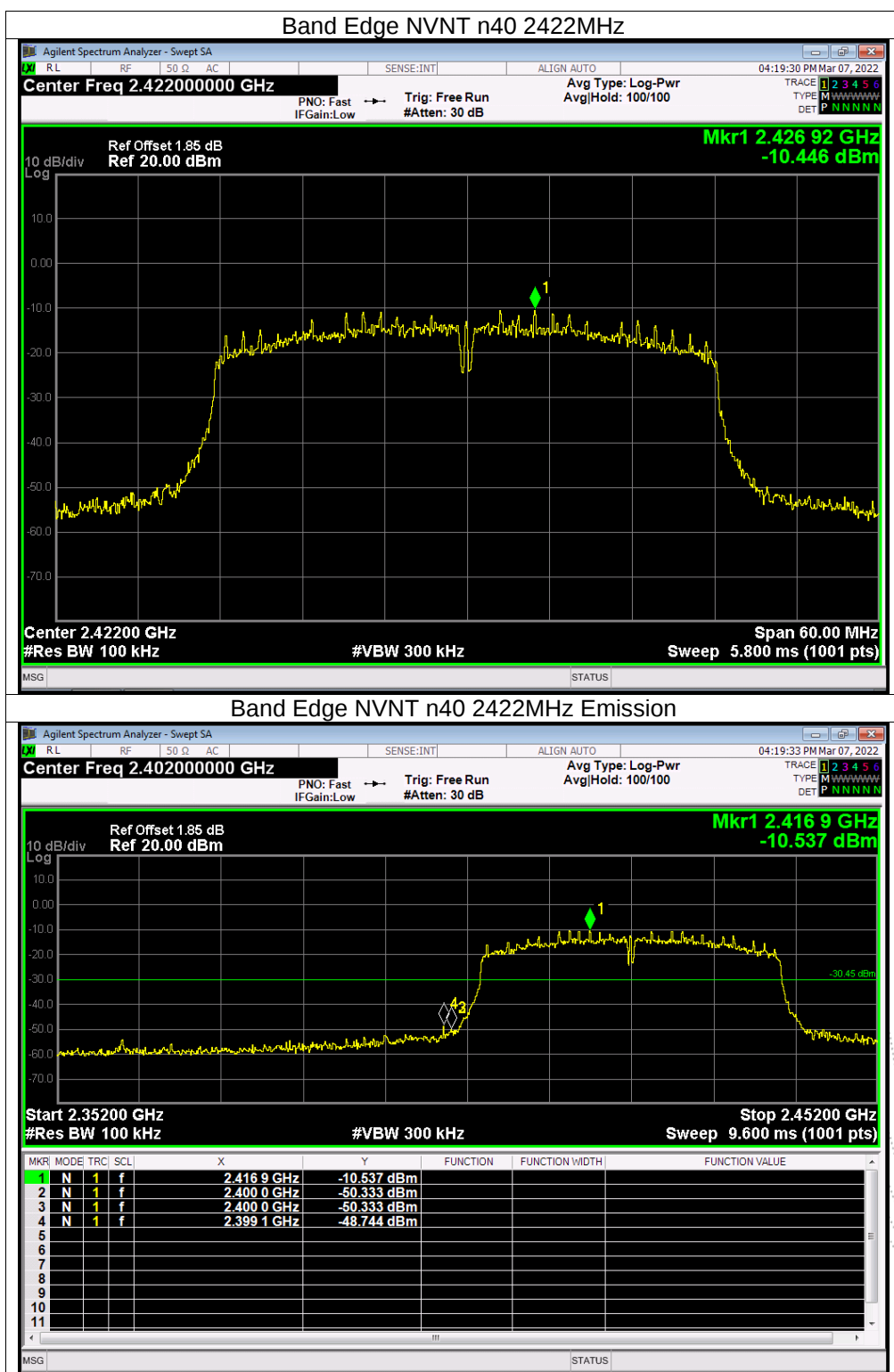


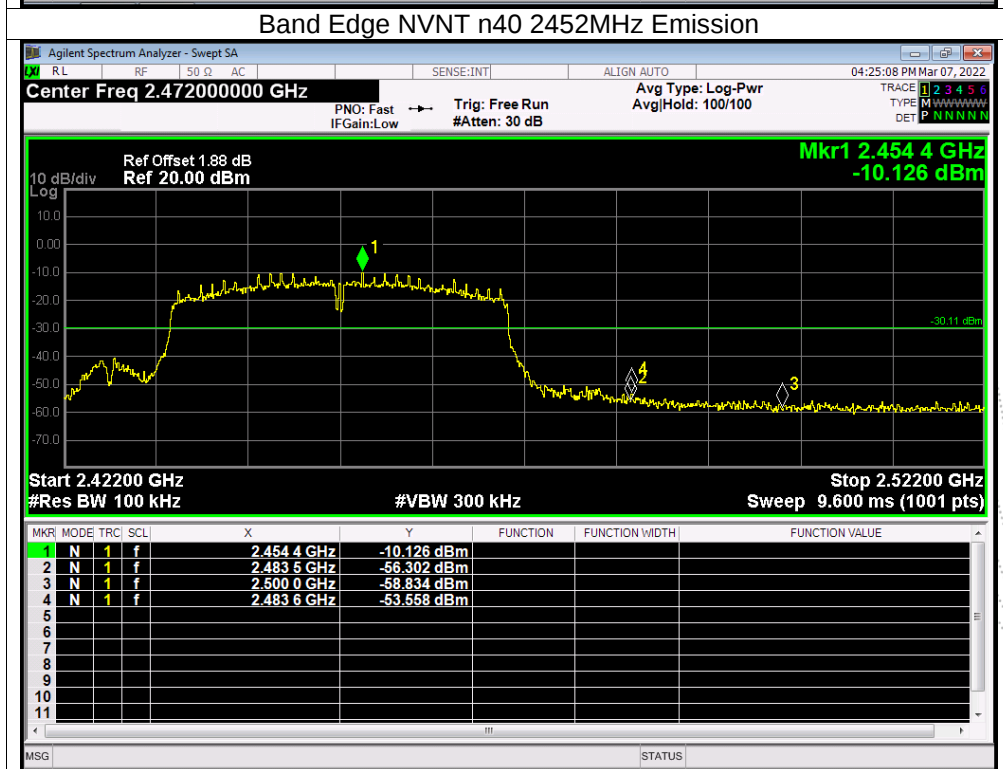
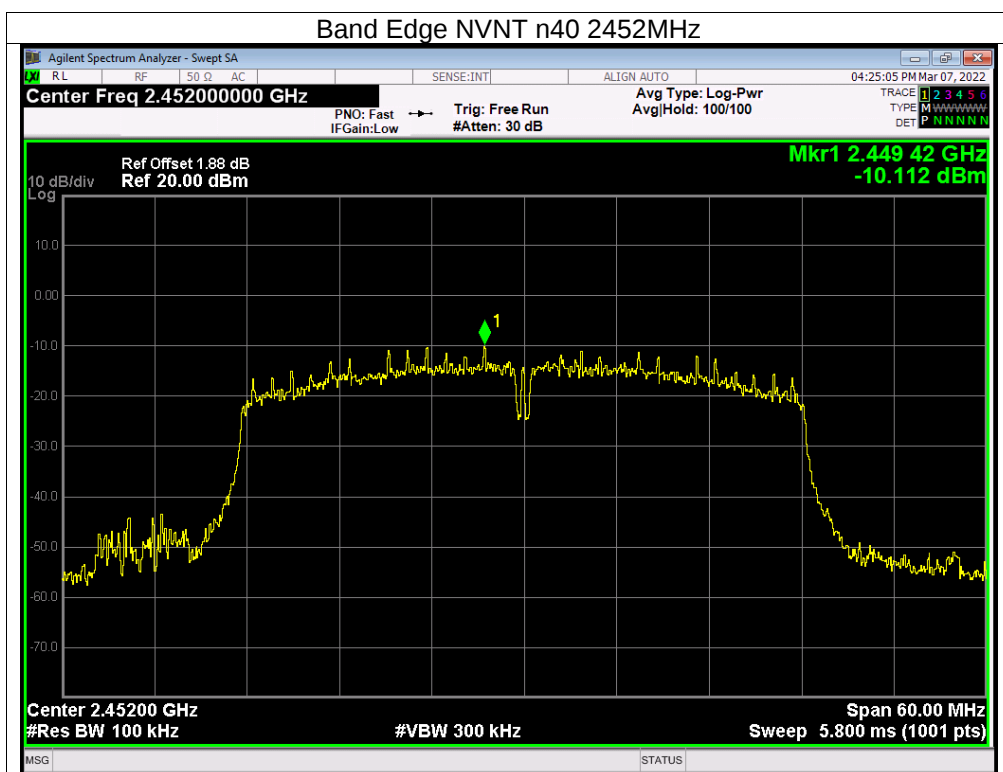


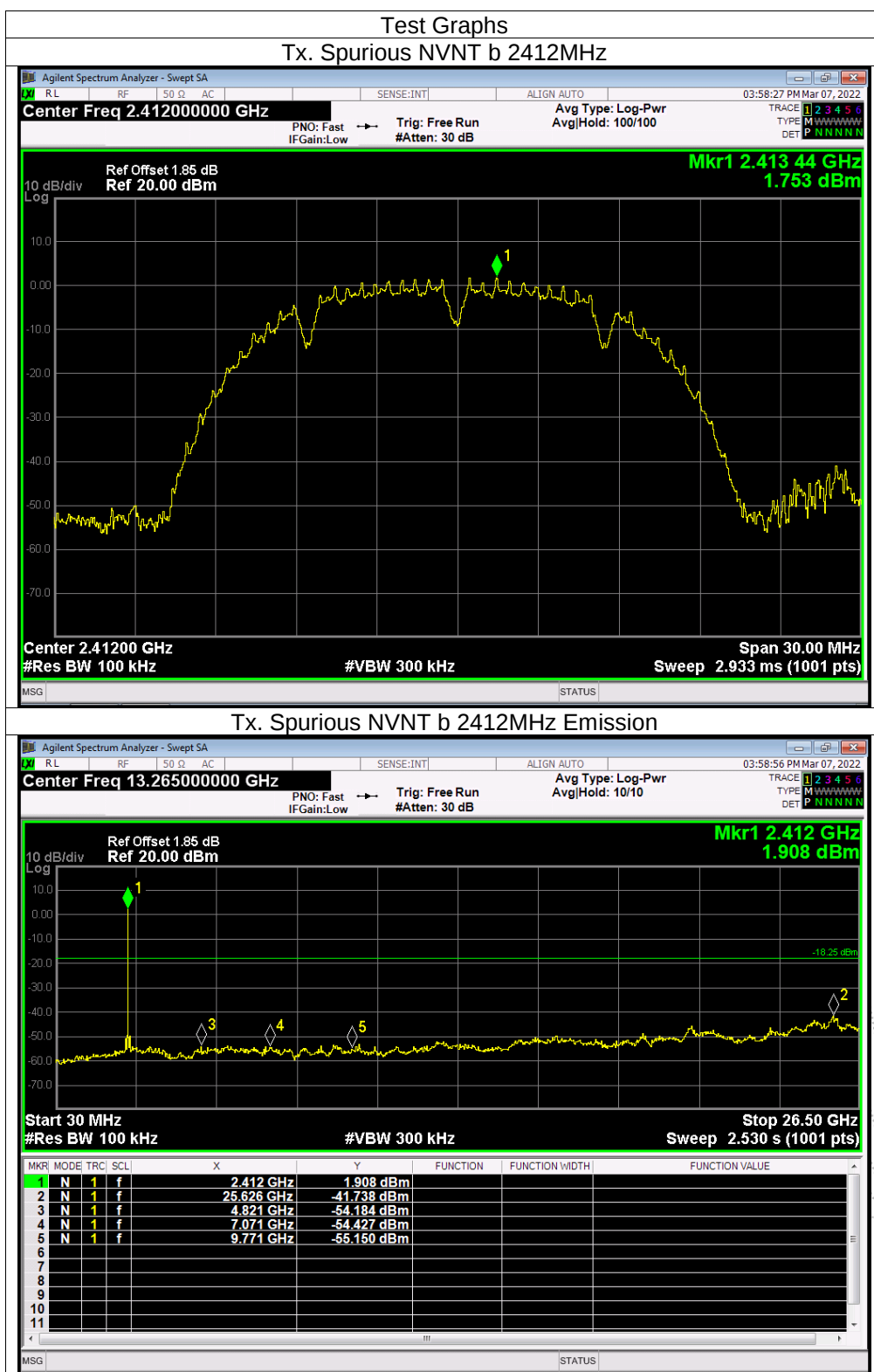


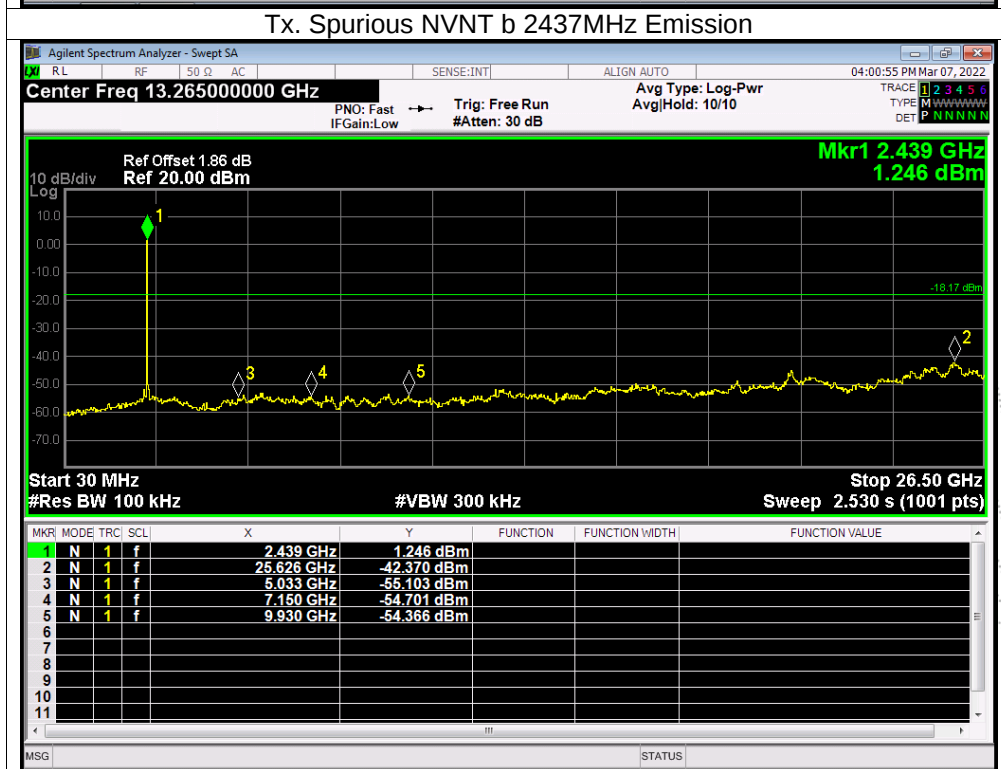
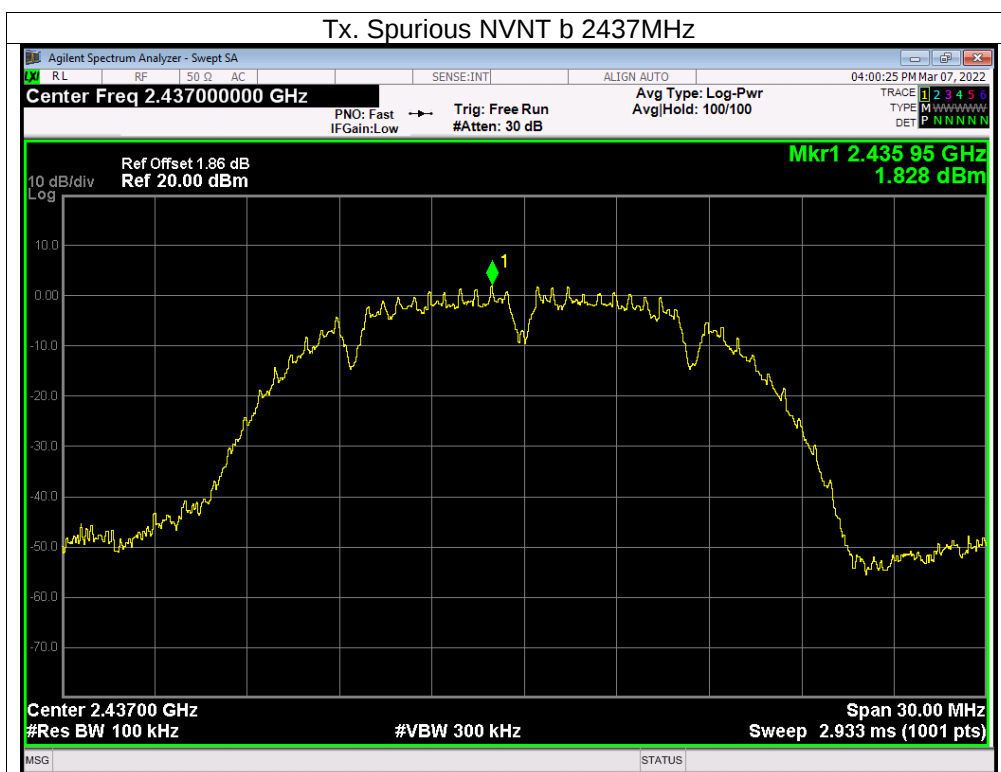


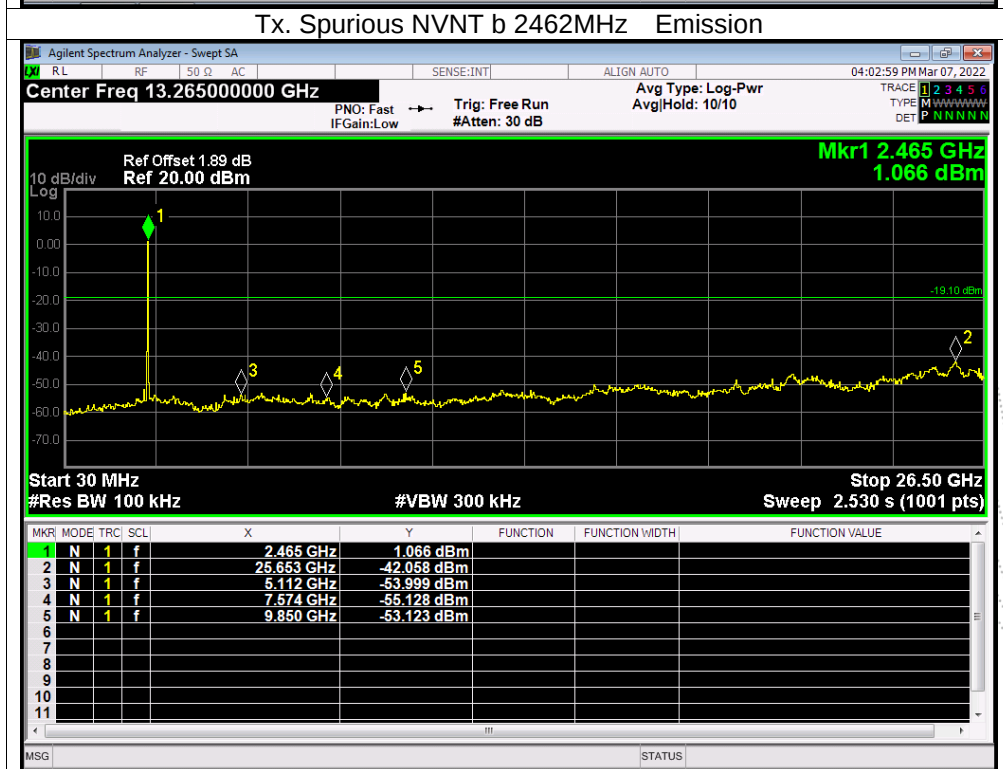
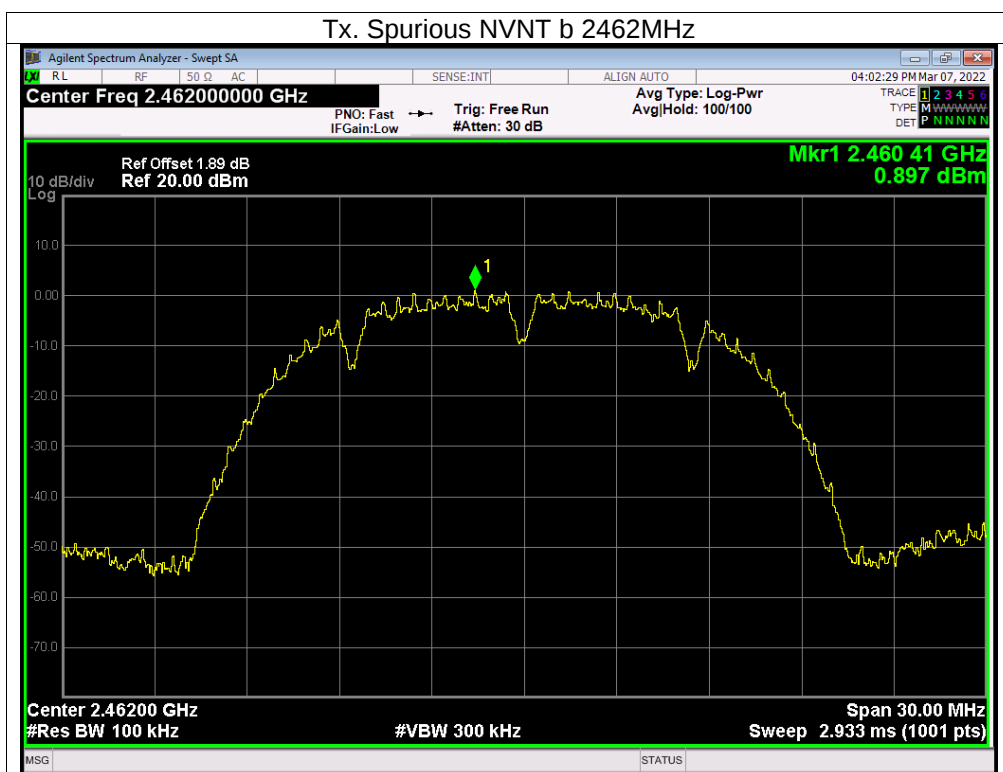


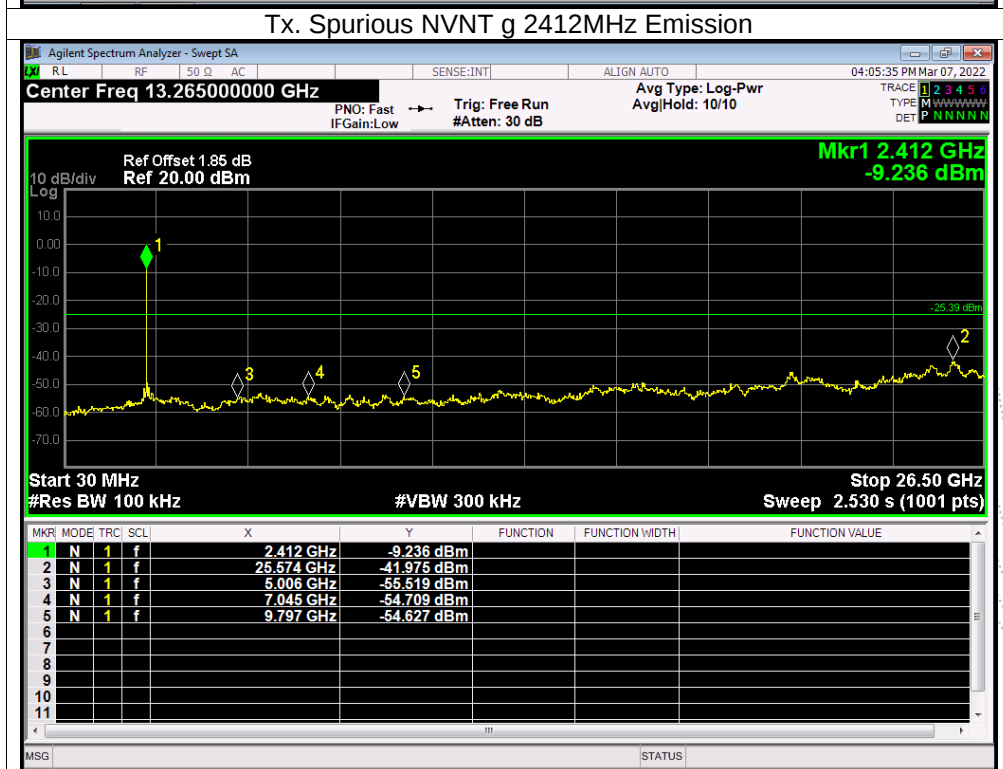
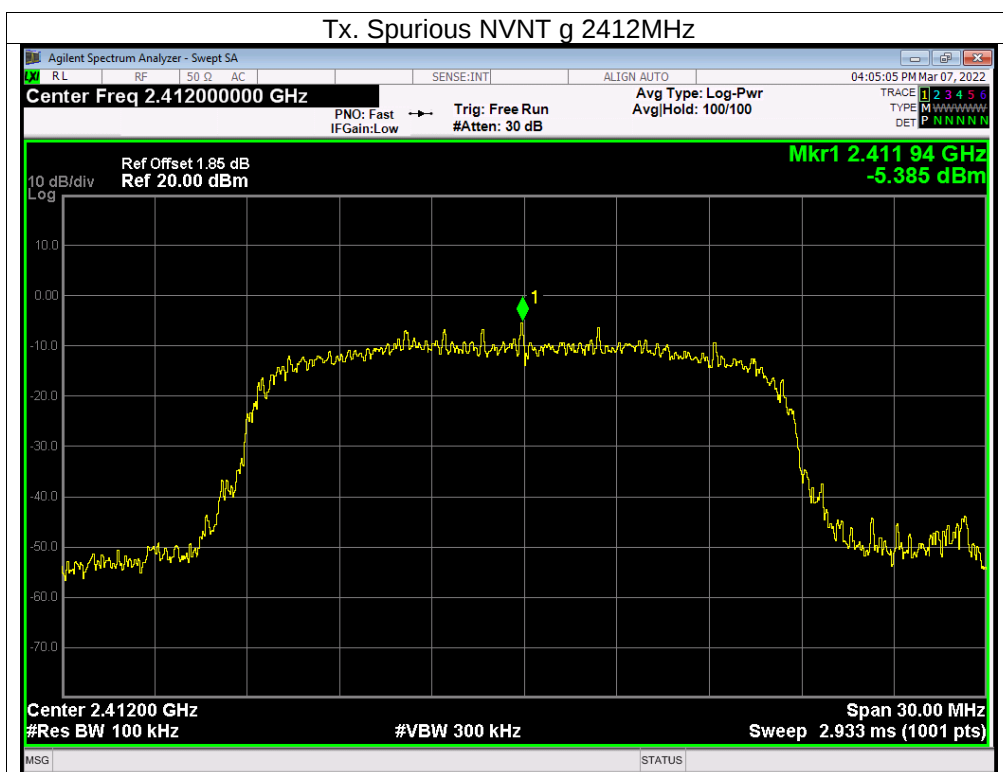


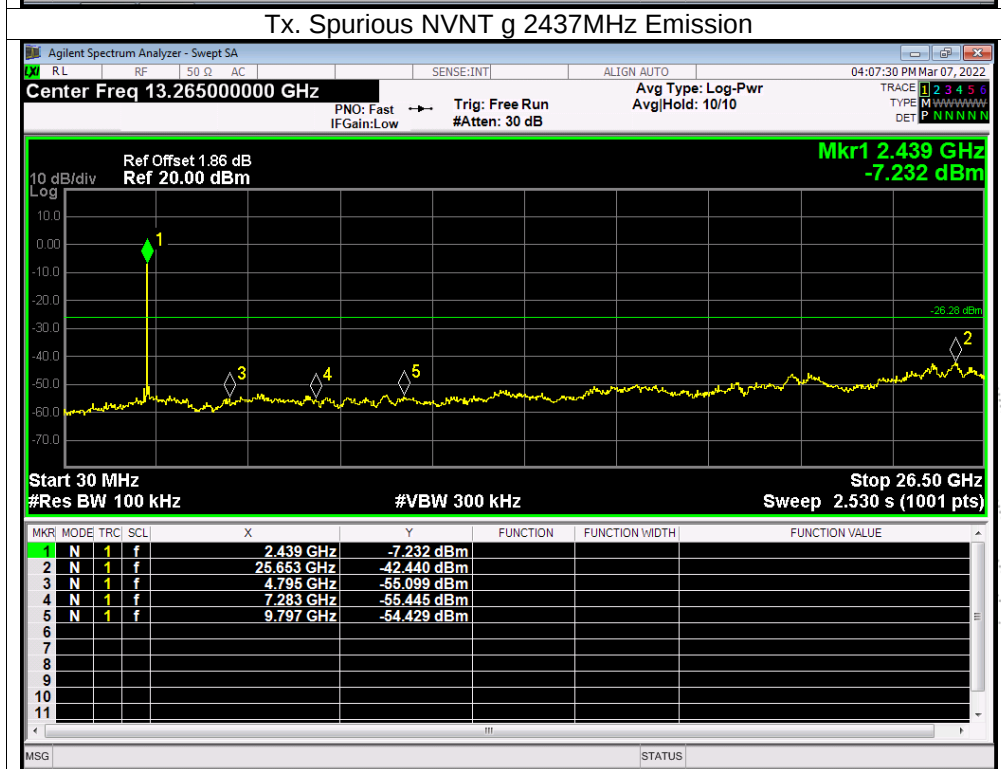
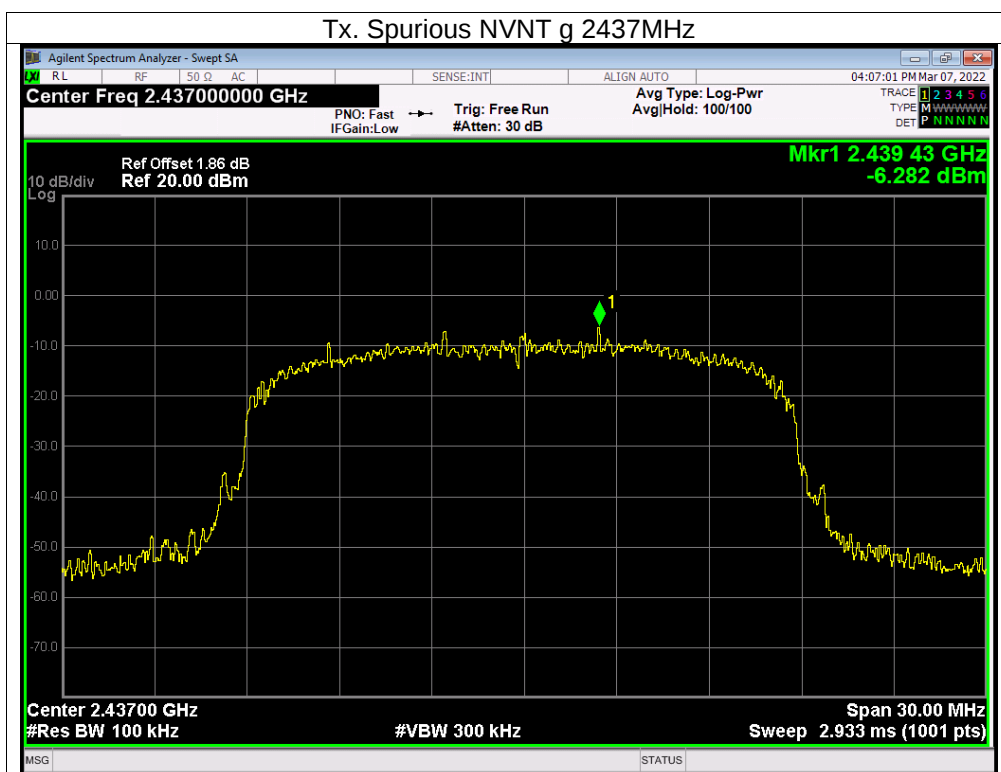


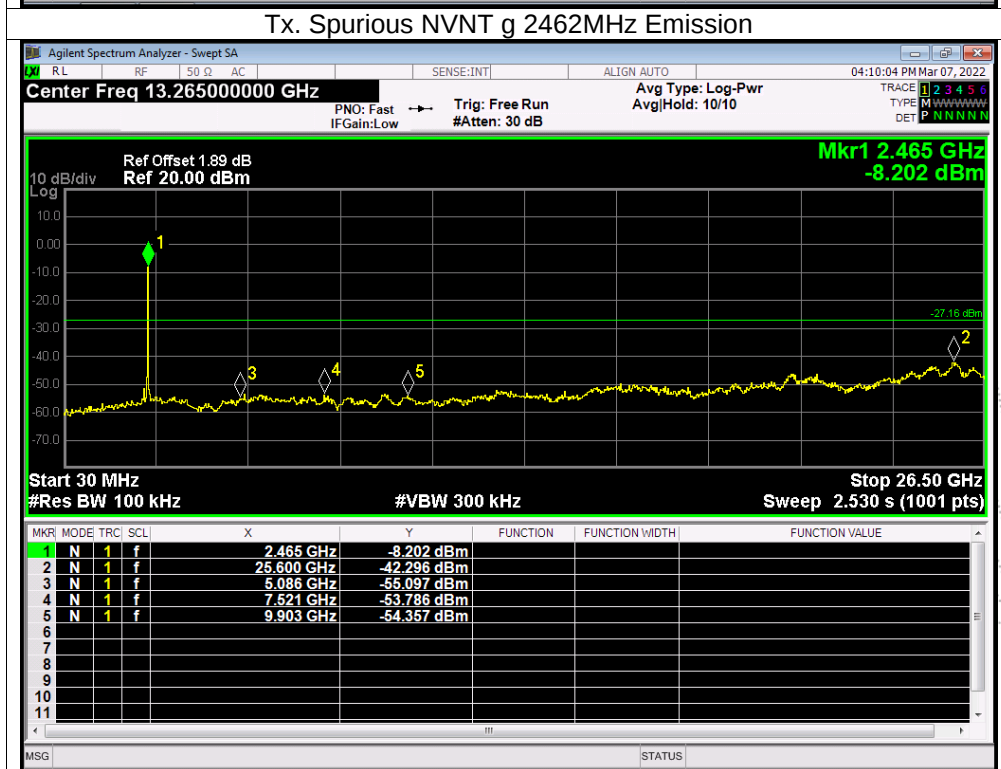
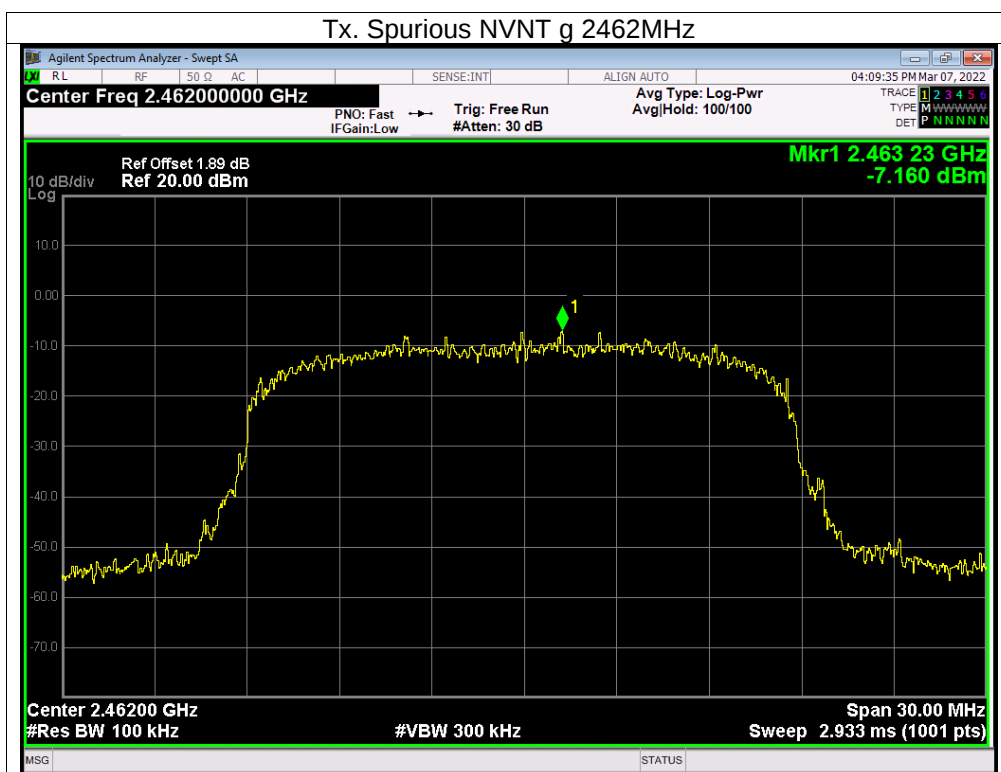


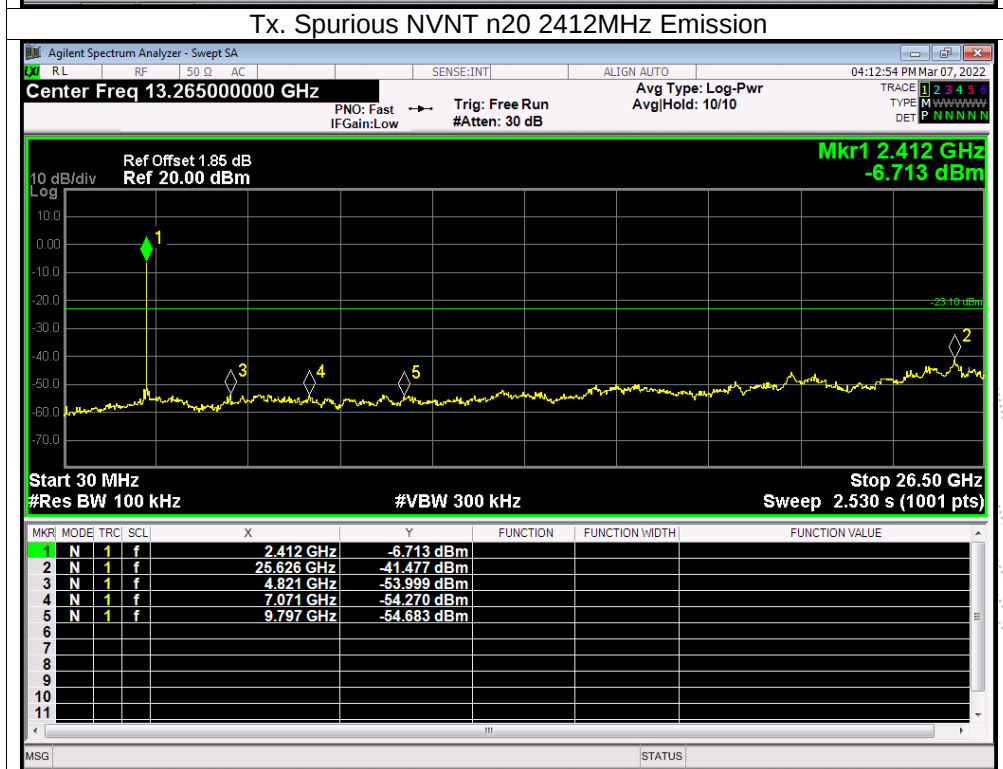
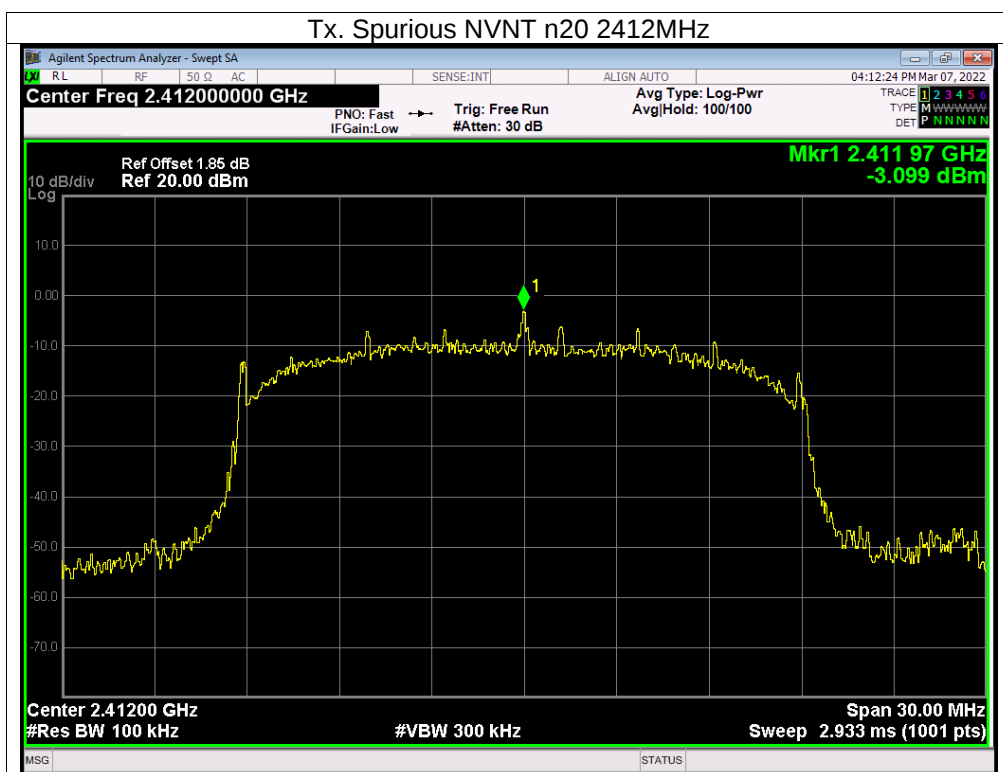


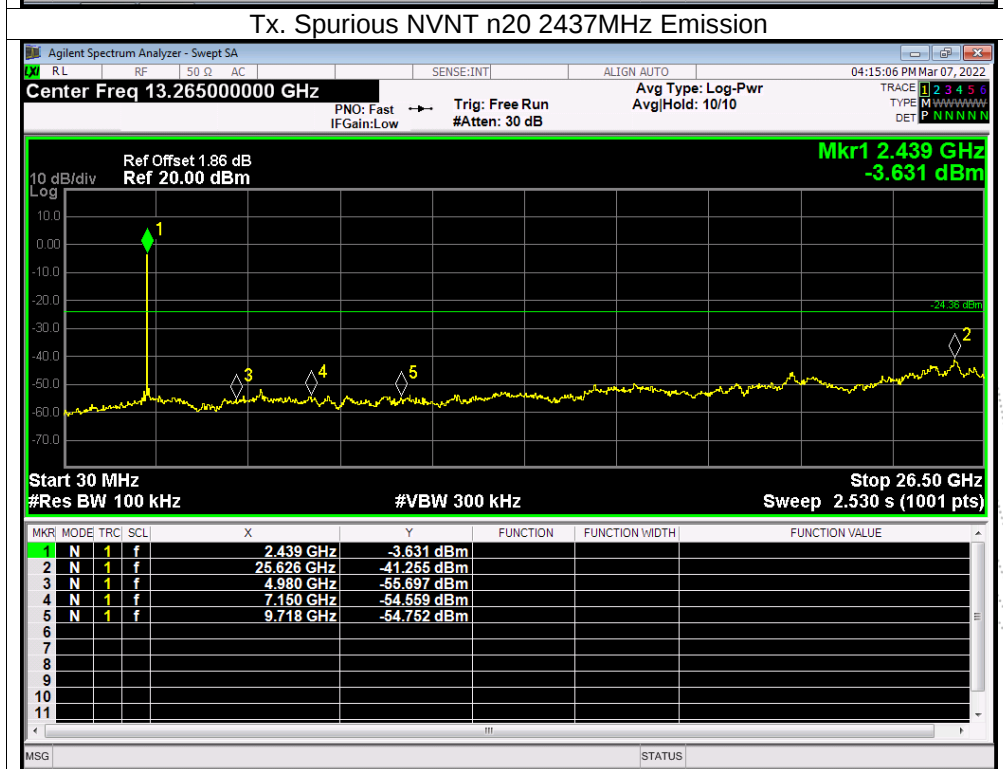
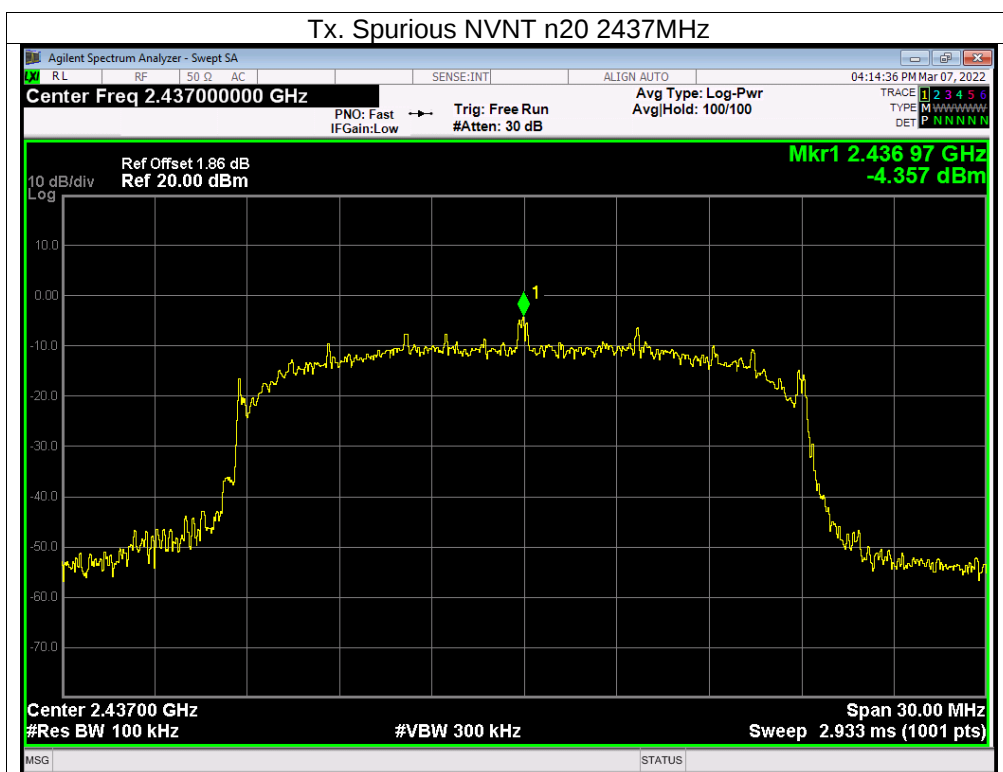


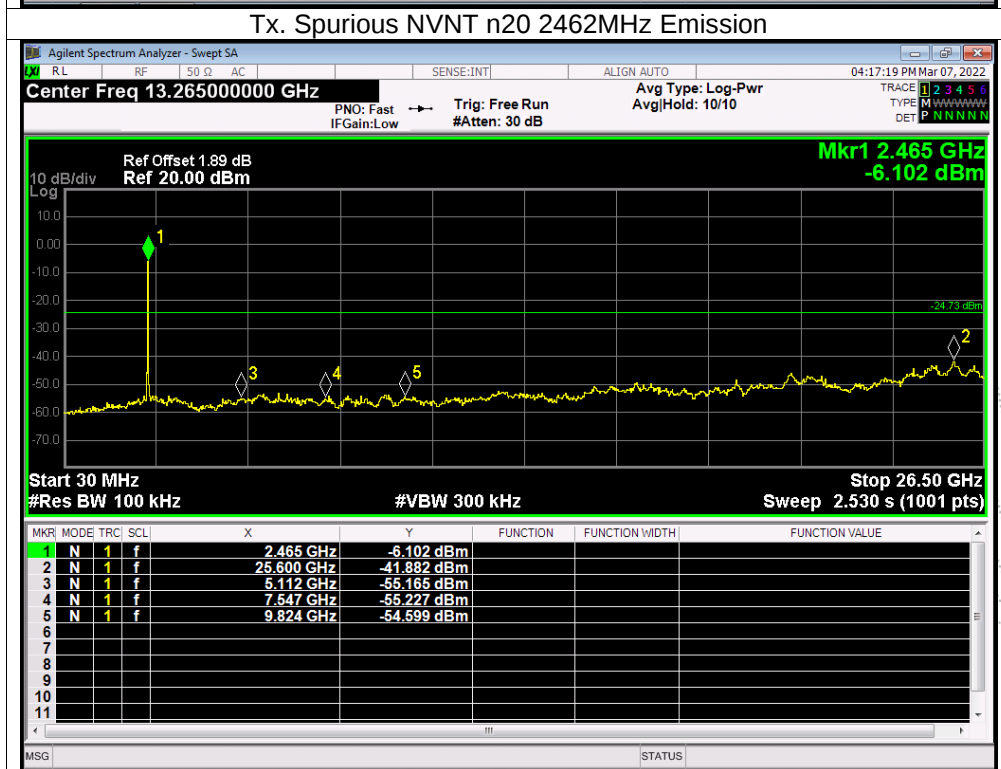
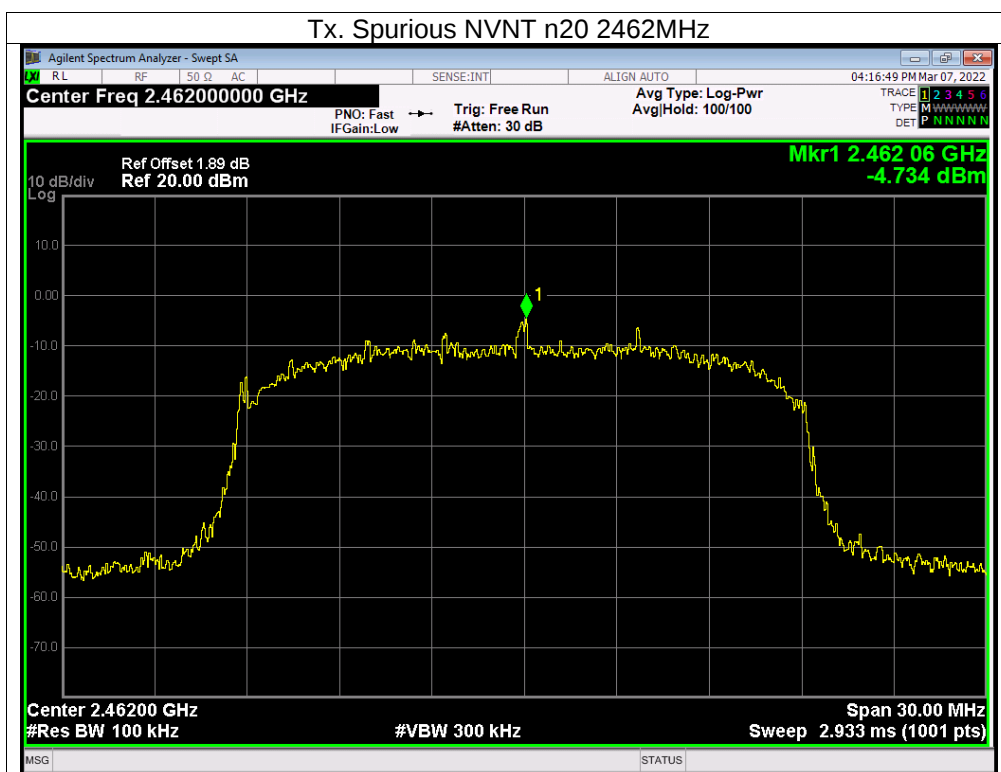


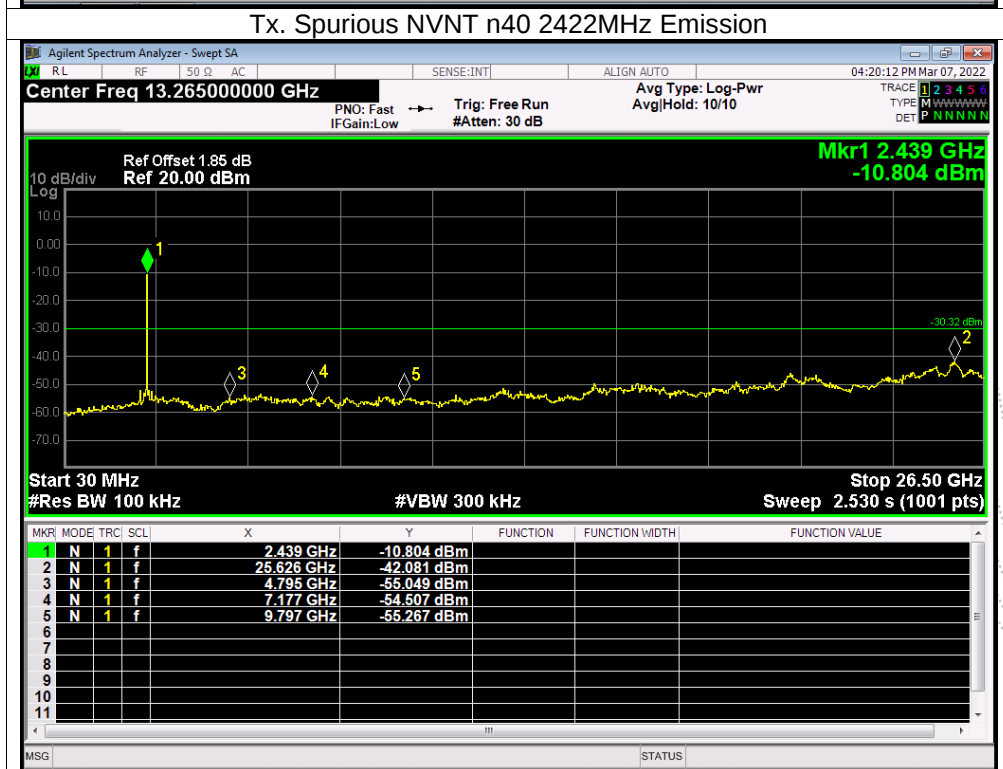
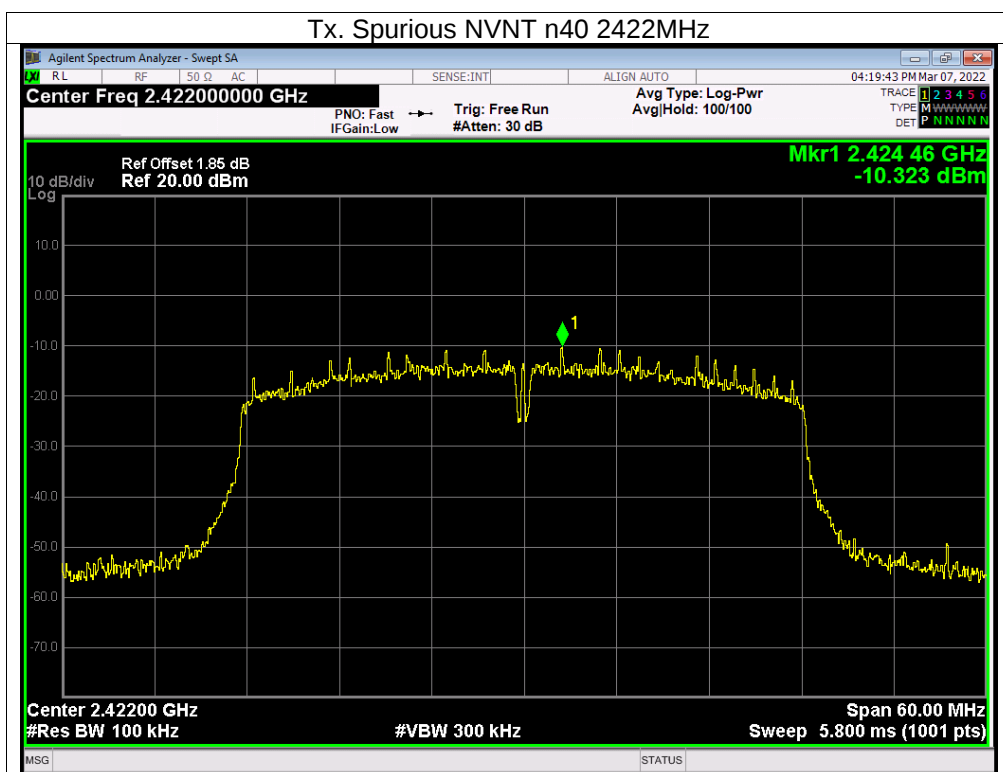


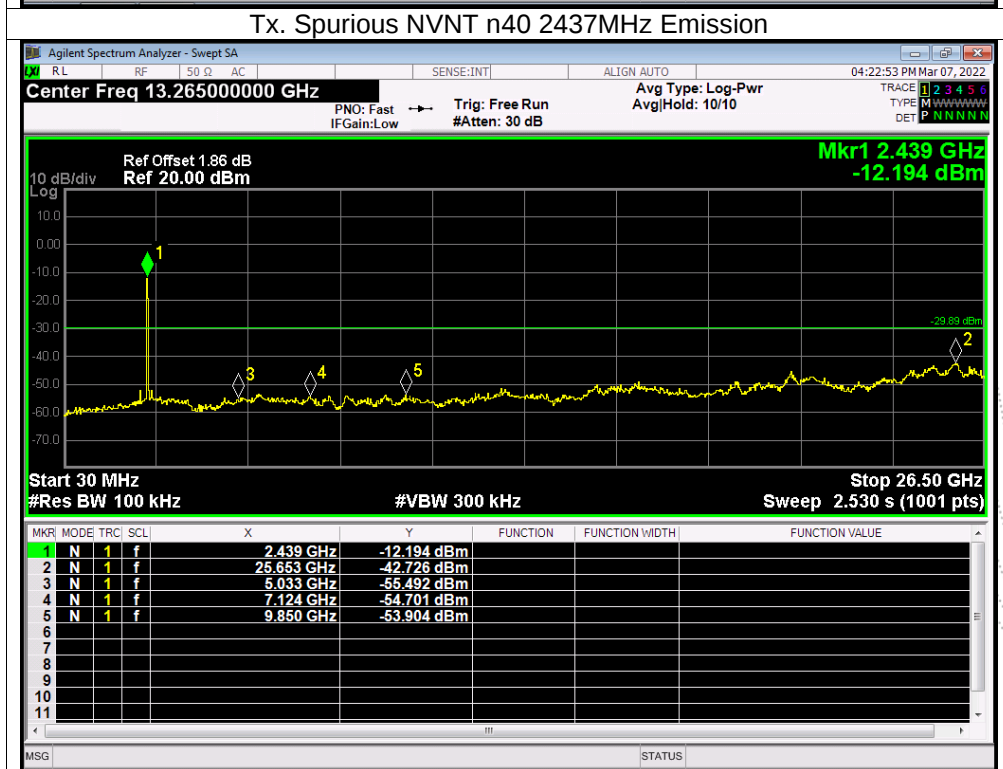
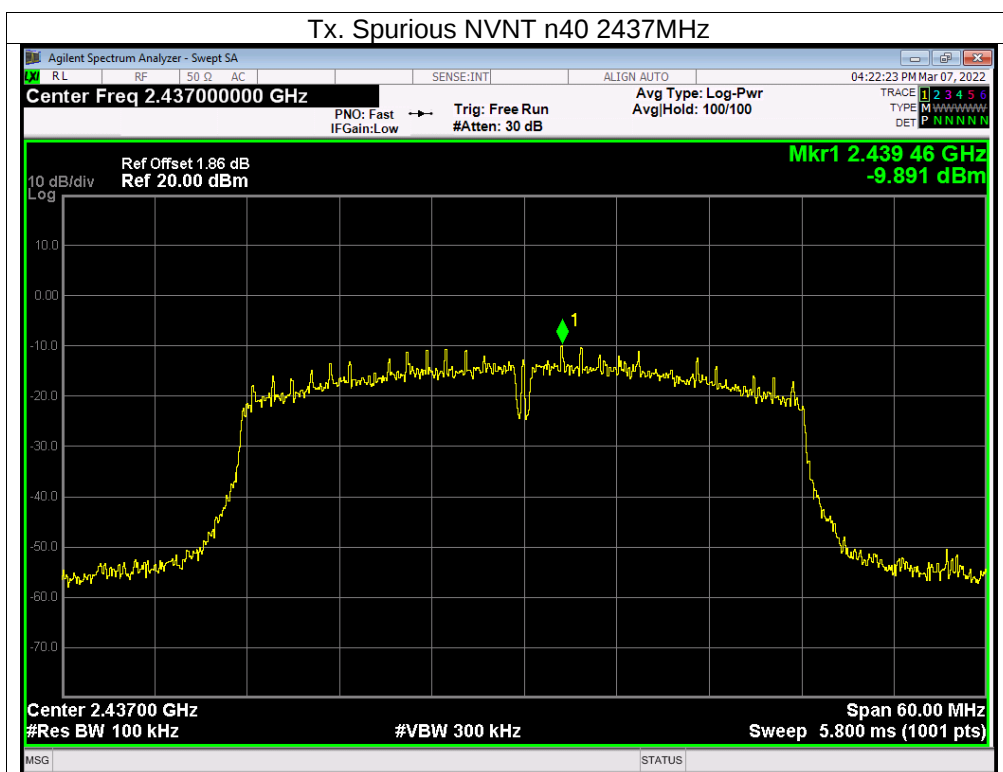


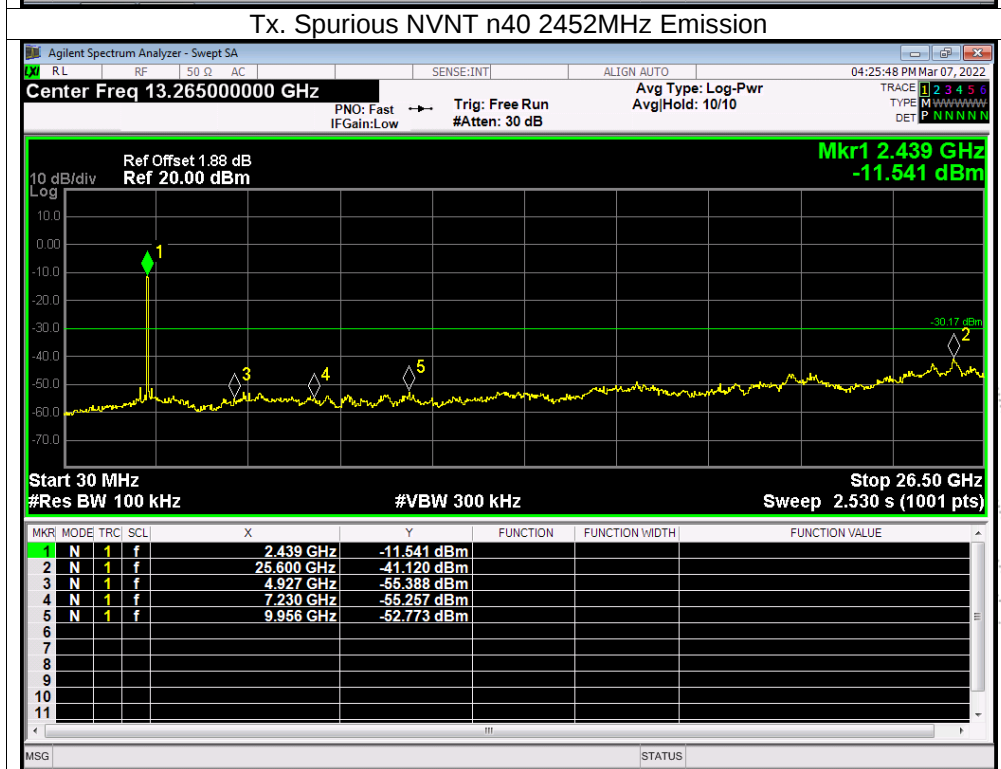
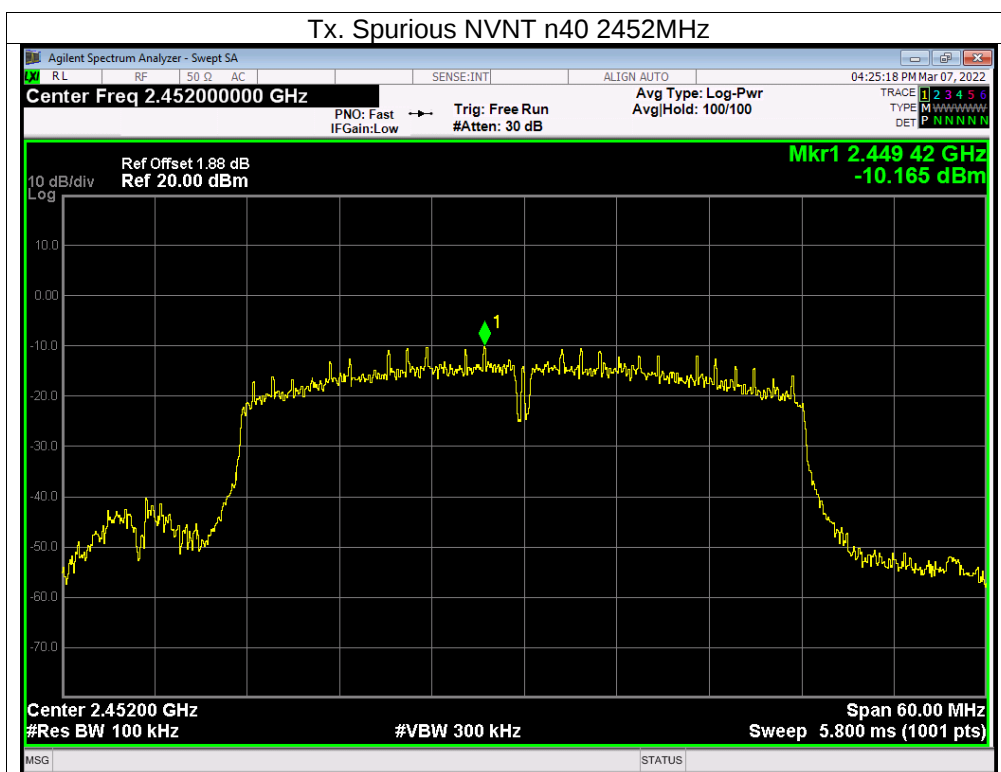












13. Duty Cycle Of Test Signal

13.1 Standard Requirement

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

13.2 Formula

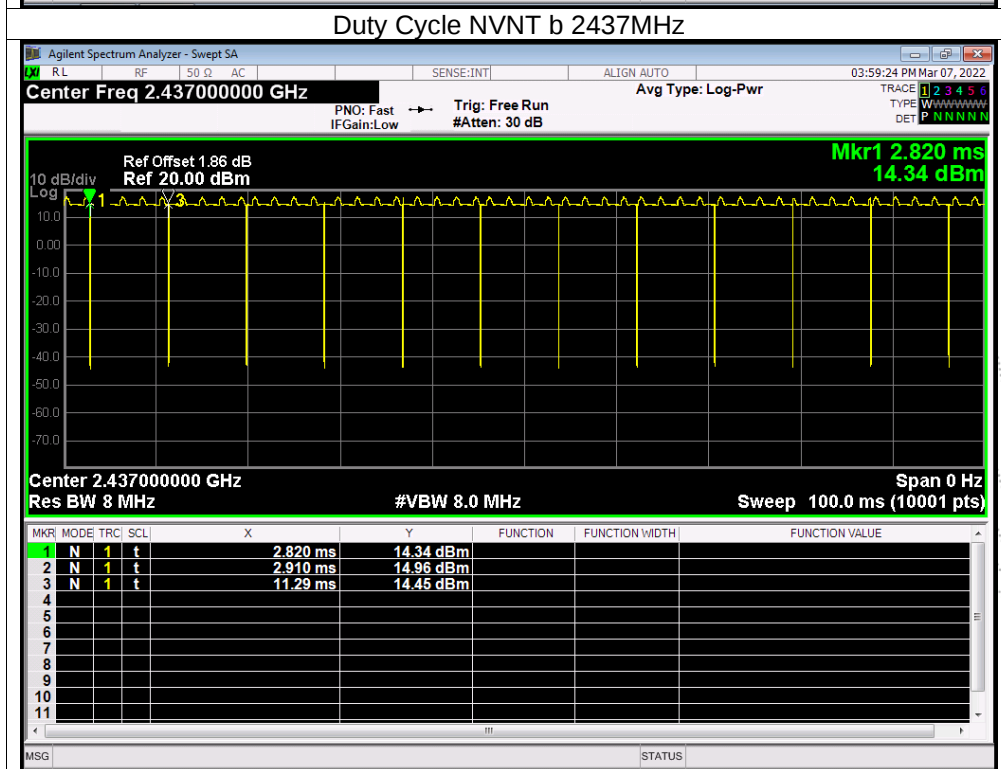
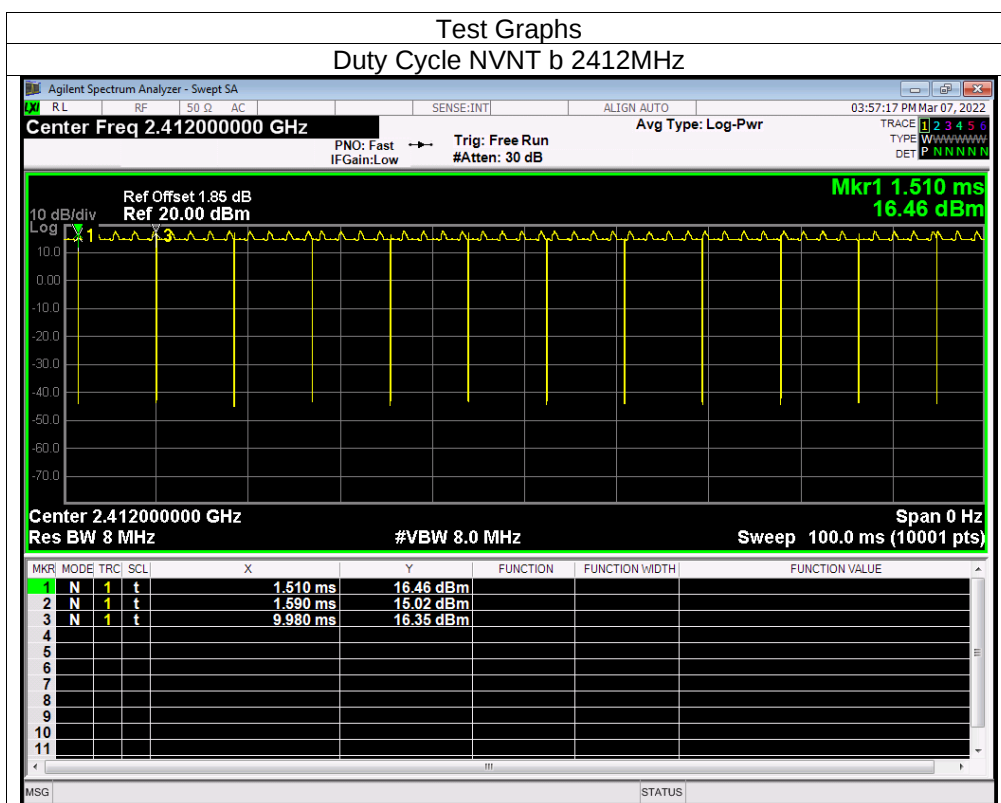
$$\text{Duty Cycle} = T_{\text{on}} / (T_{\text{on}} + T_{\text{off}})$$

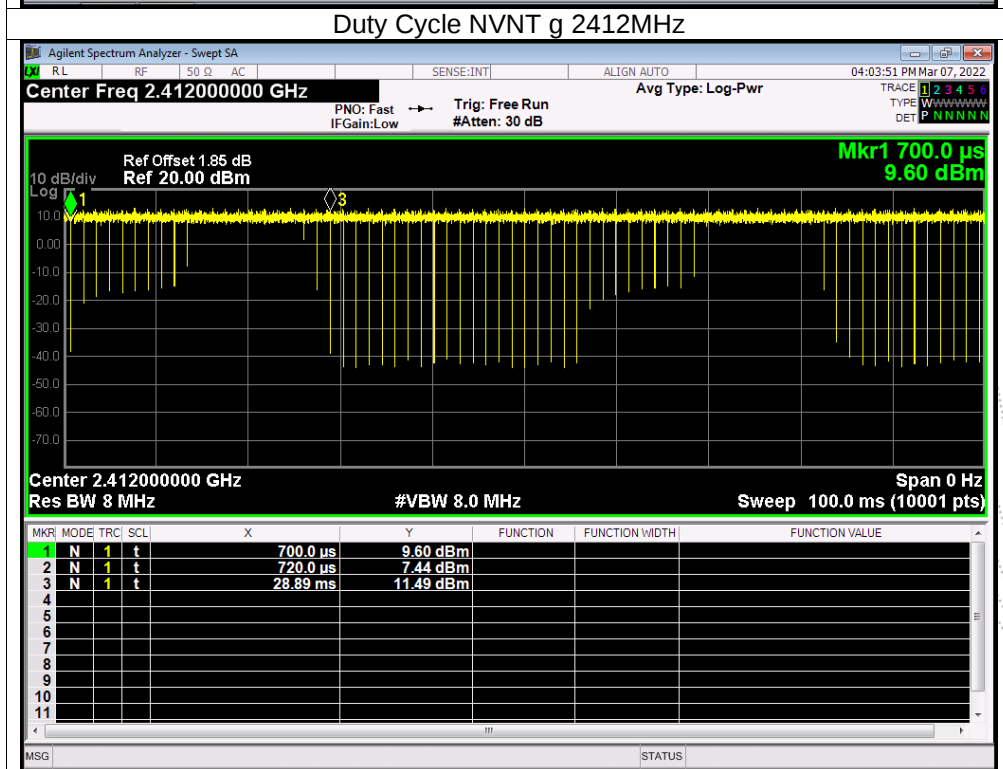
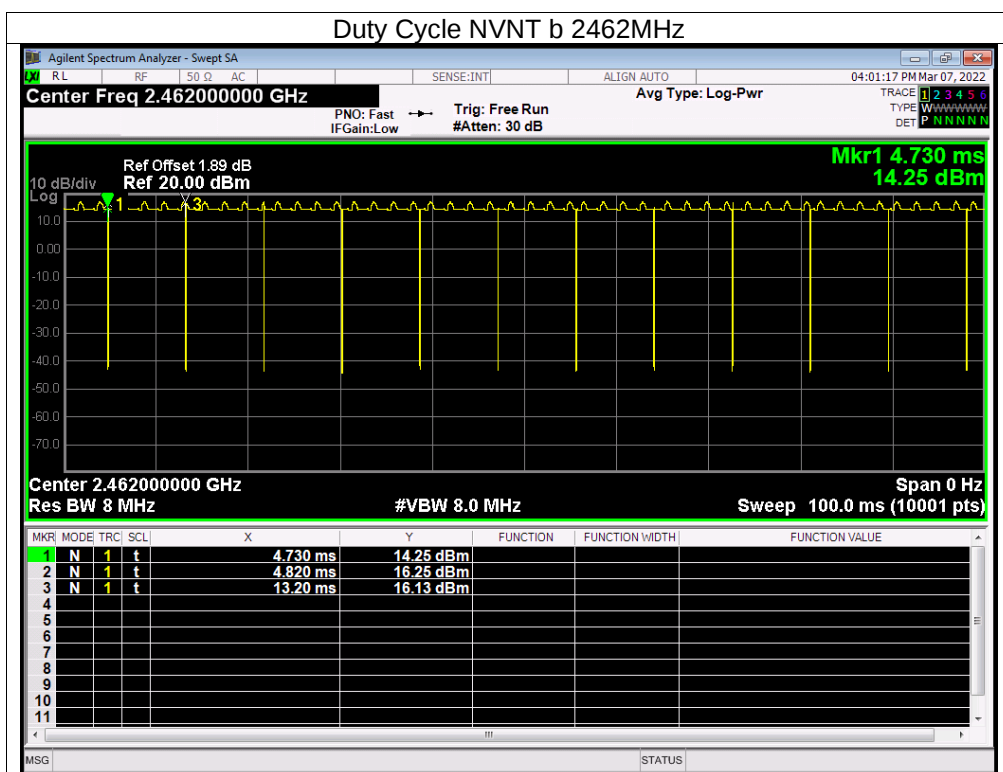
13.3 Test Procedure

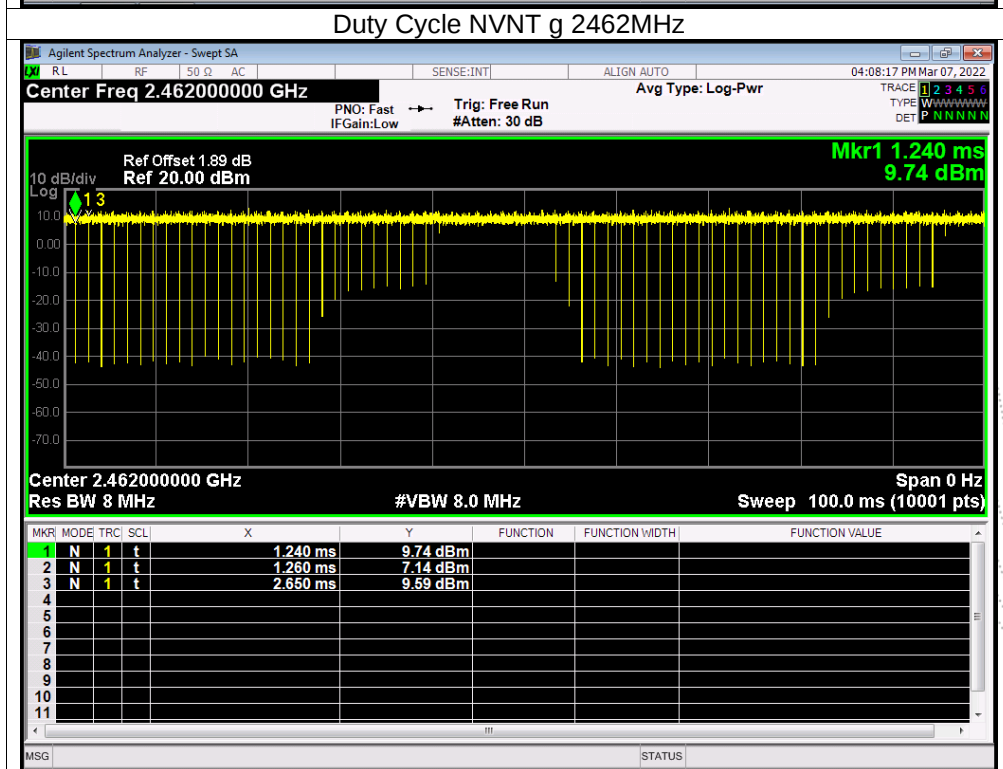
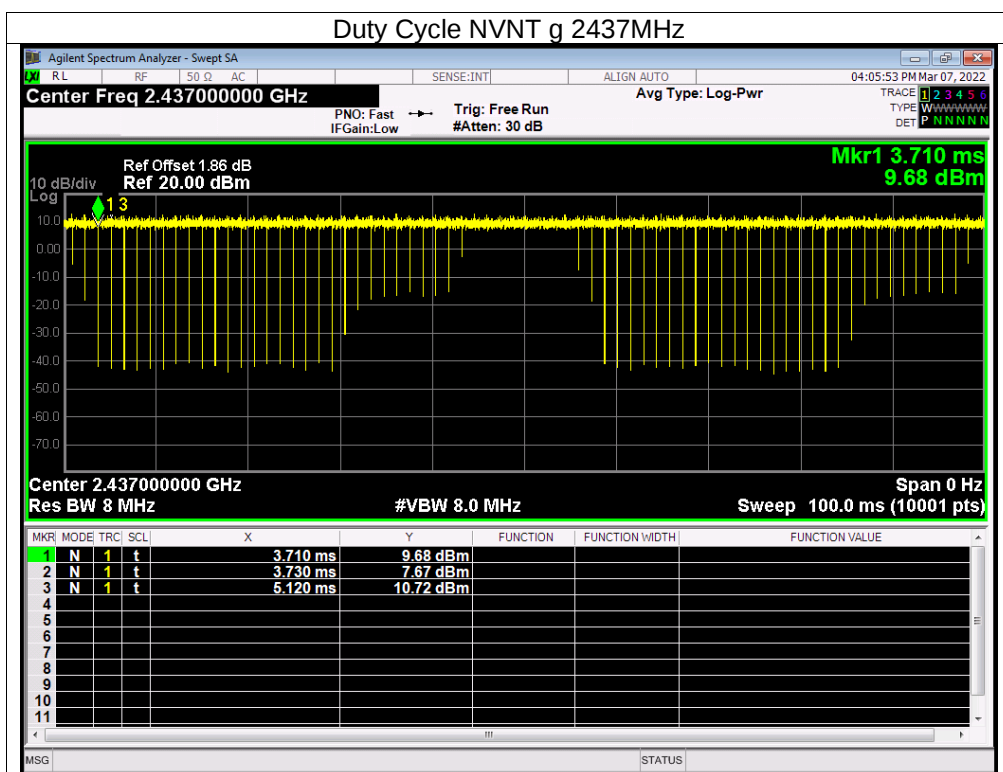
1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

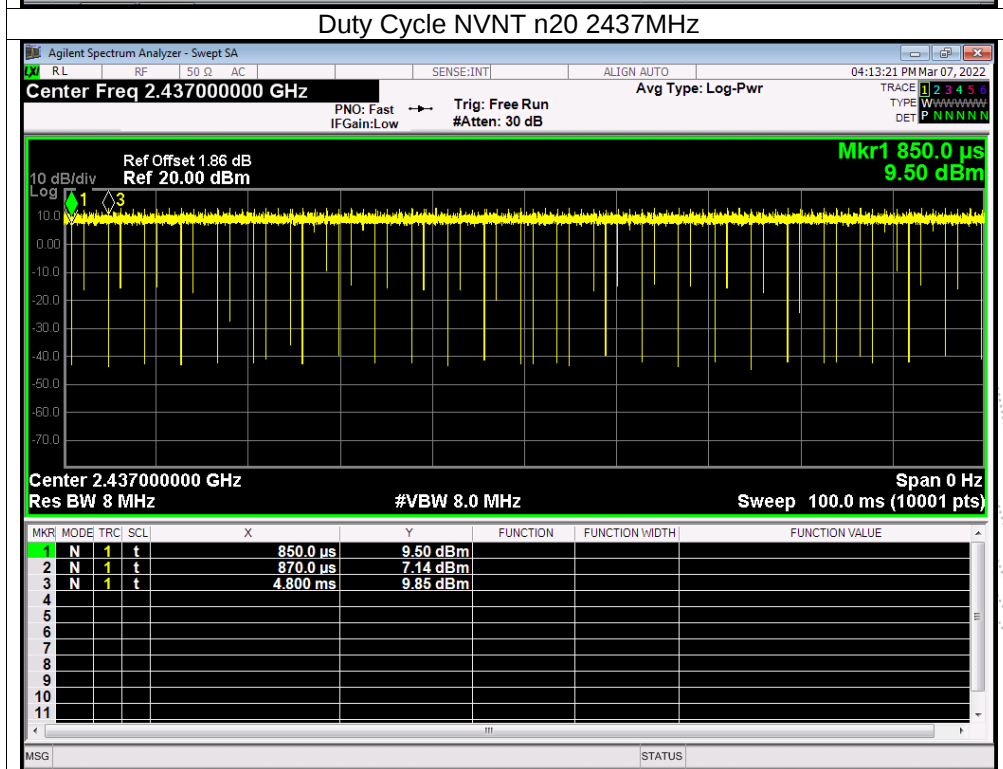
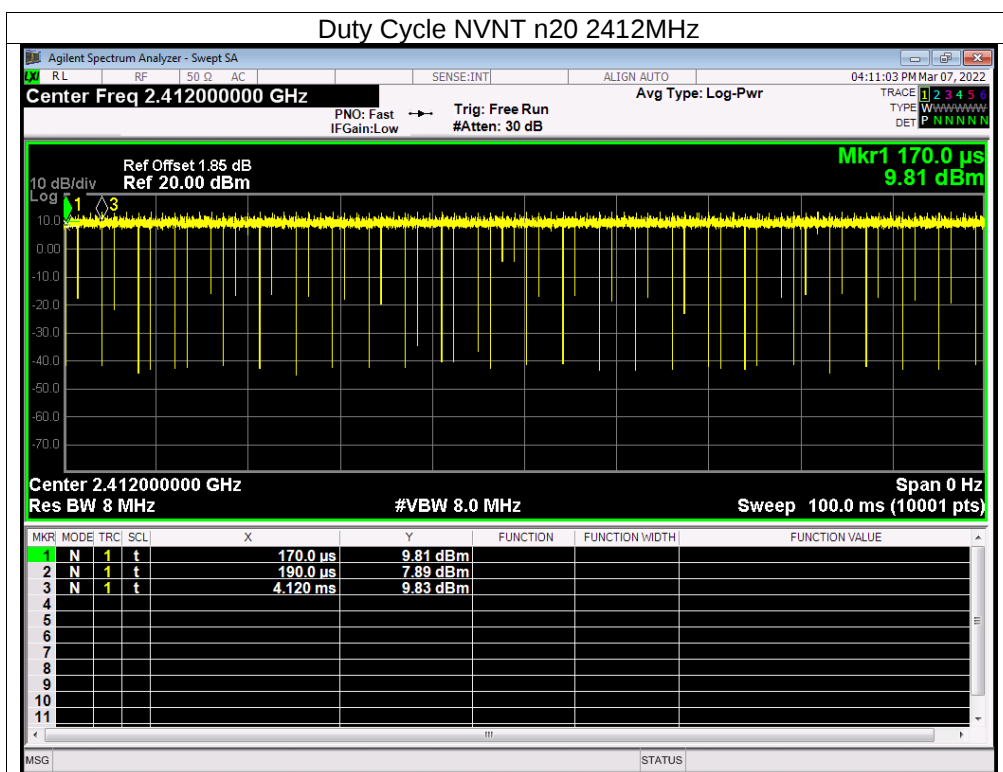
13.4 Test Result

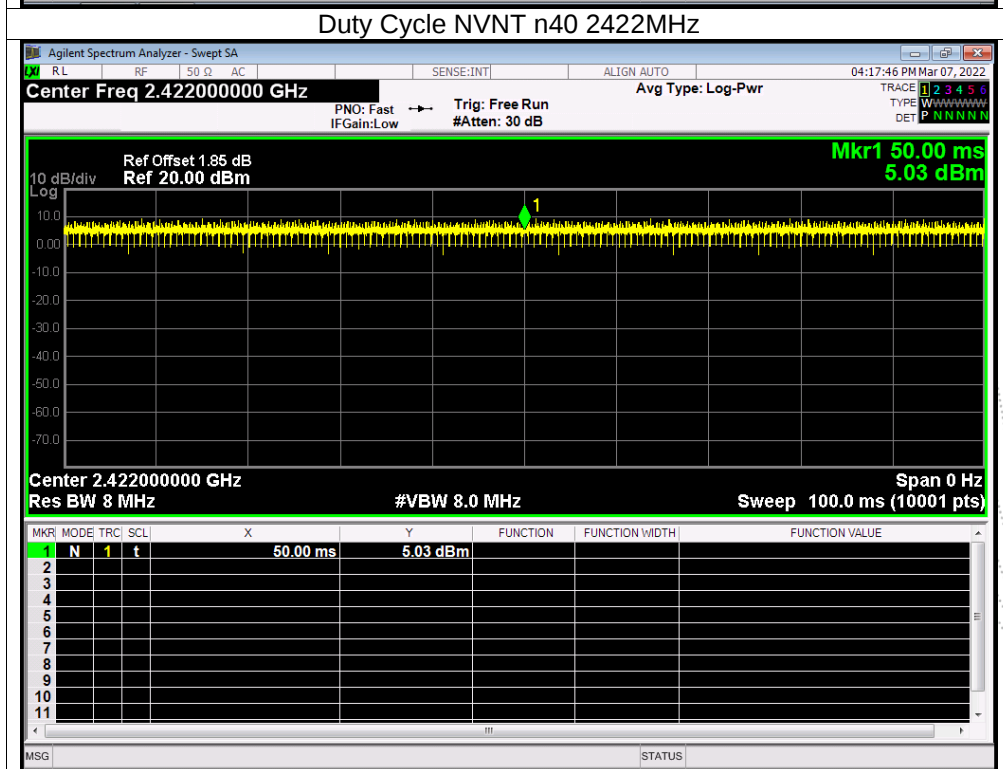
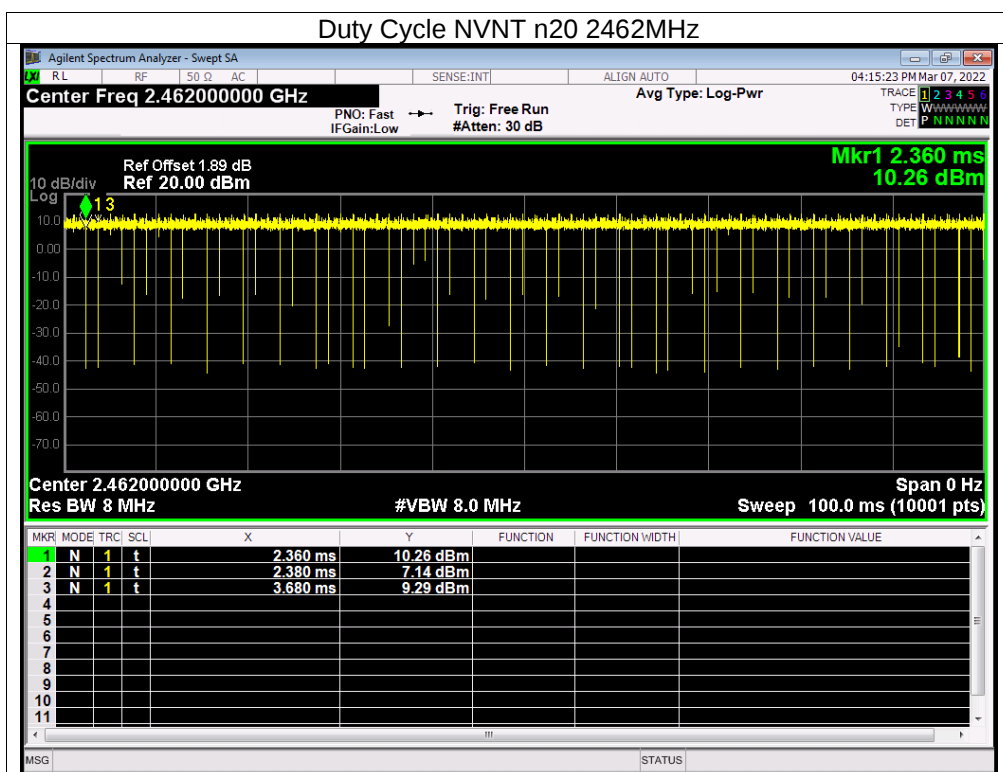
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	99.08	0.04	0.12
b	2437	99.08	0.04	0.12
b	2462	99.08	0.04	0.12
g	2412	99.67	0.01	0.04
g	2437	99.6	0.02	0.72
g	2462	99.6	0.02	0.72
n20	2412	99.68	0.01	0.25
n20	2437	99.68	0.01	0.25
n20	2462	99.67	0.01	0.77
n40	2422	100	0	0
n40	2437	100	0	0
n40	2452	100	0	0

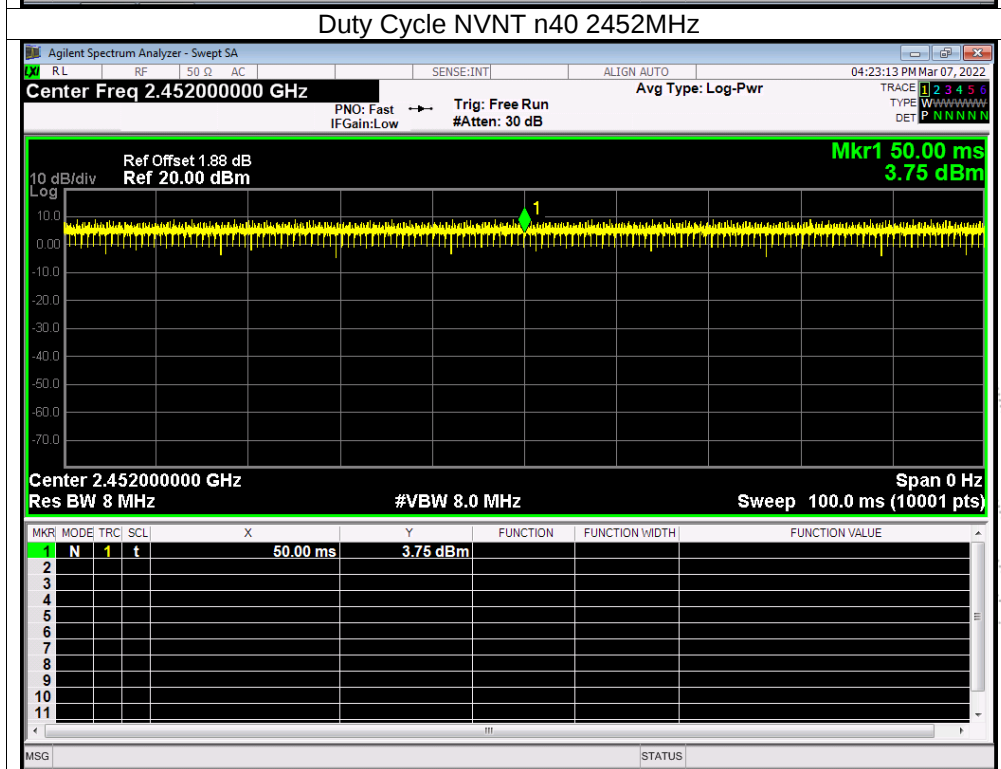
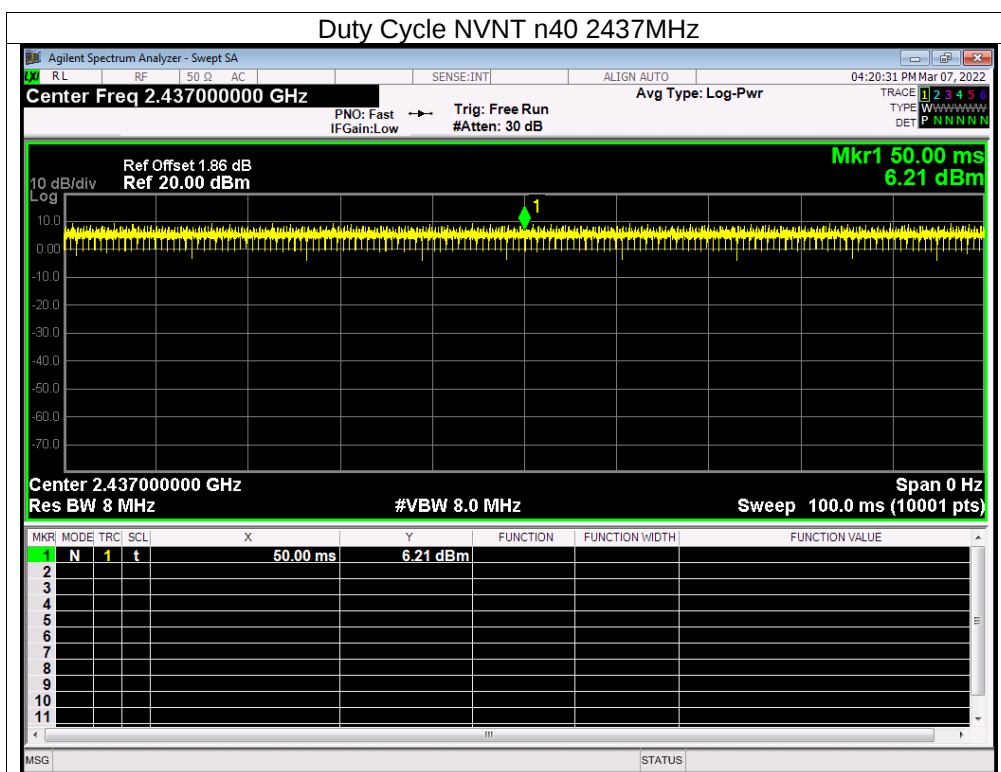












14. Antenna Requirement

14.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.2 Test Result

The EUT antenna is PCB antenna, fulfill the requirement of this section.

