

12. Spurious RF Conducted Emissions

12.1 Block Diagram Of Test Setup



12.2 Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.725-5.85 GHz band(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge..

(3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

12.3 Test Procedure

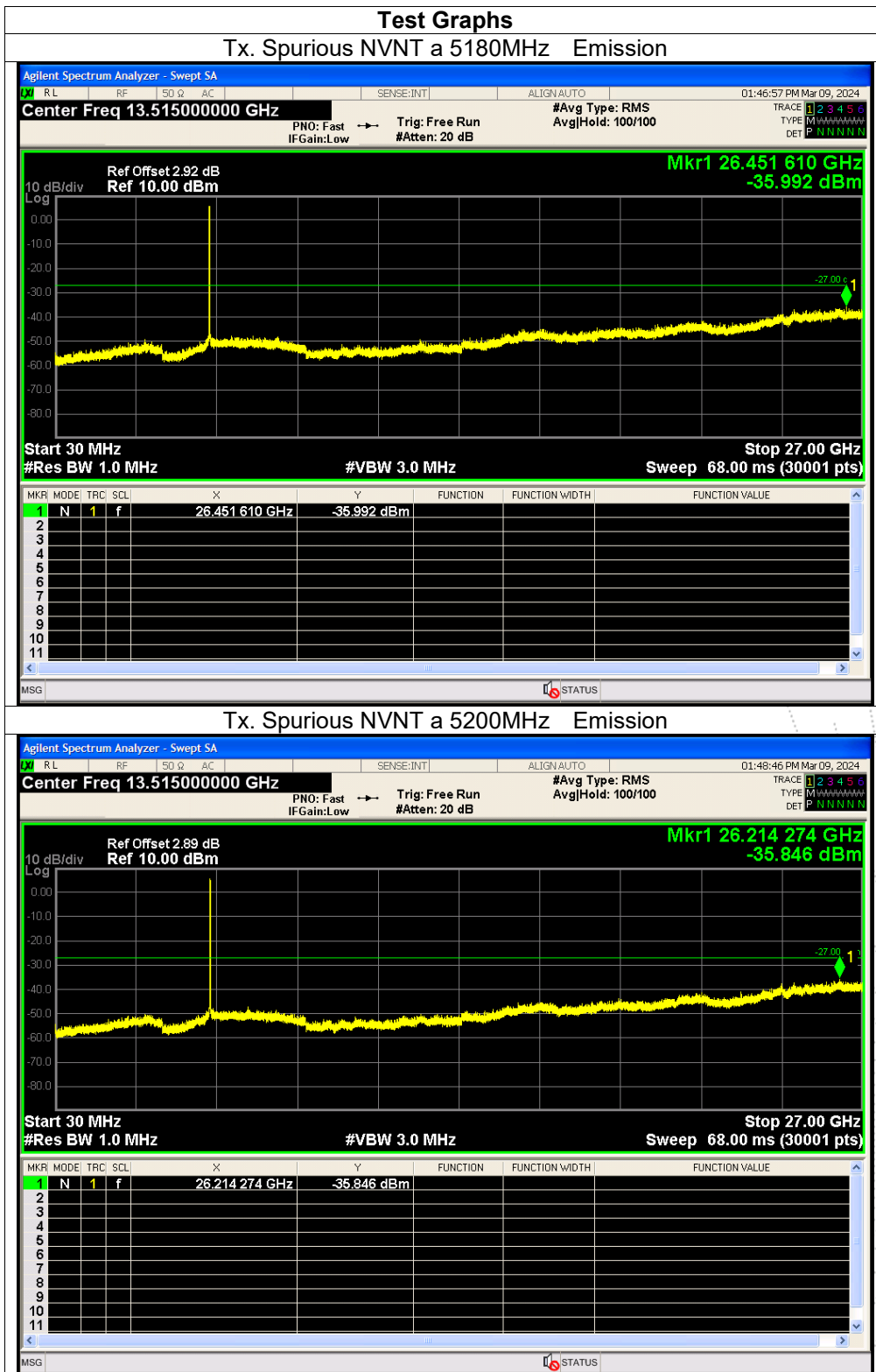
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

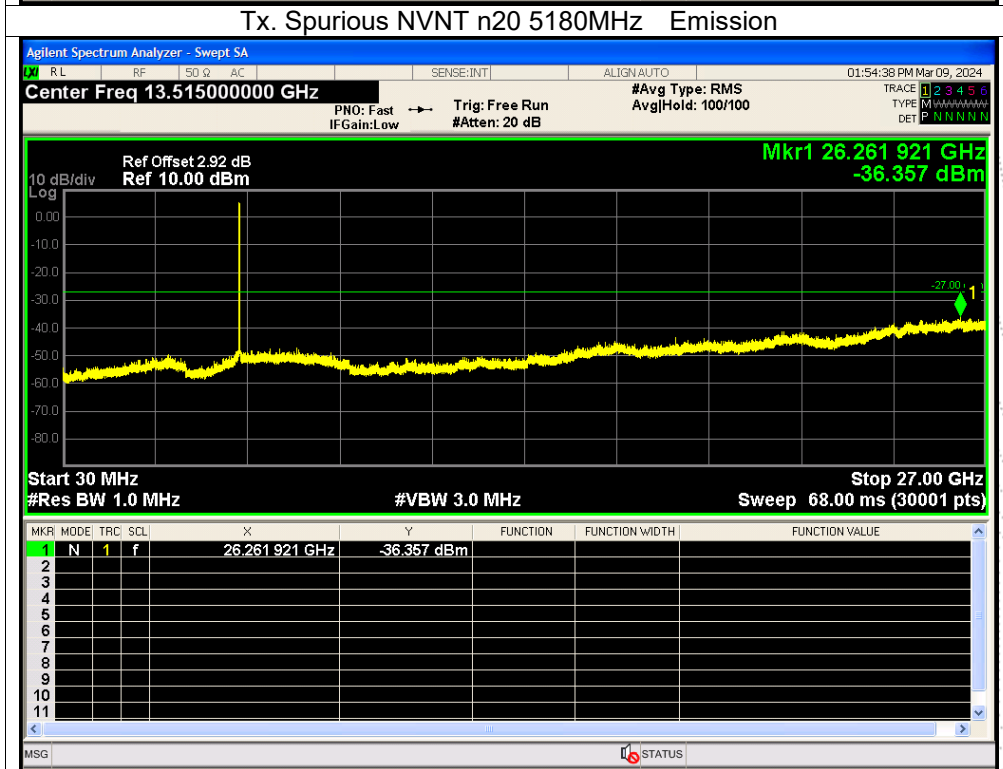
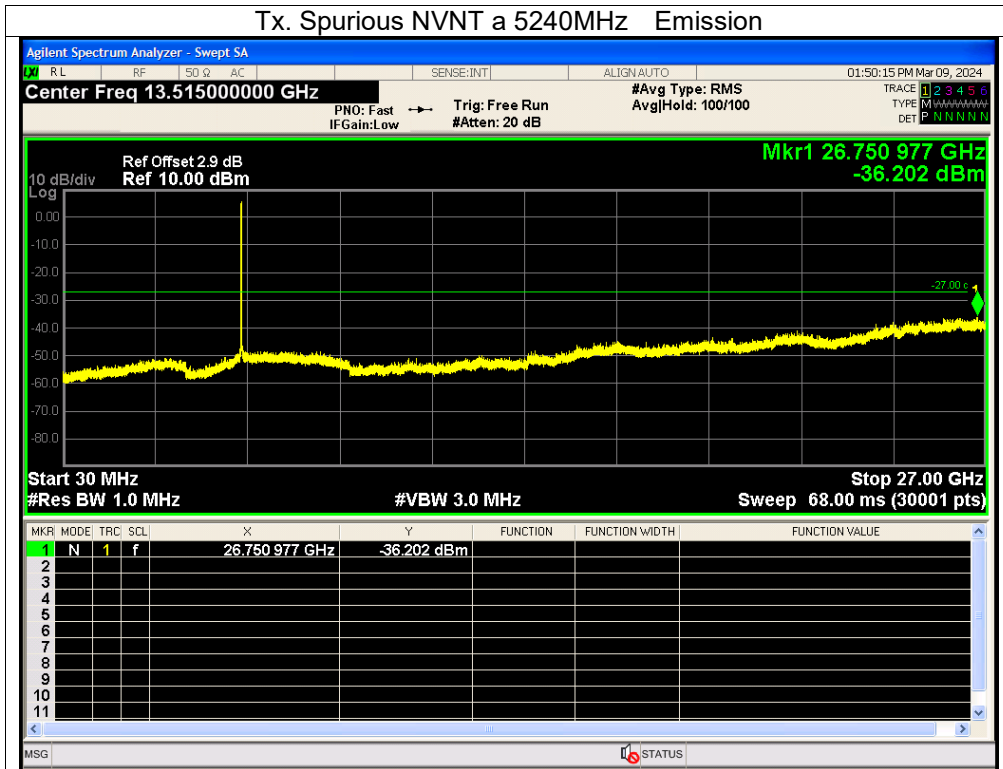
12.4 Test Result

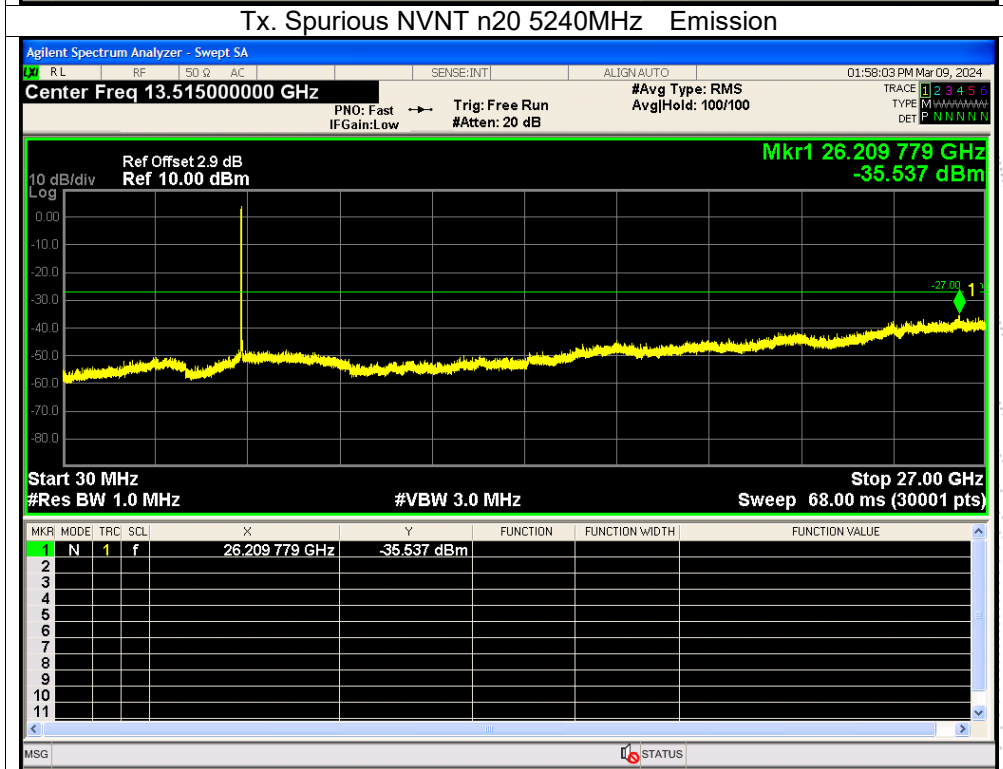
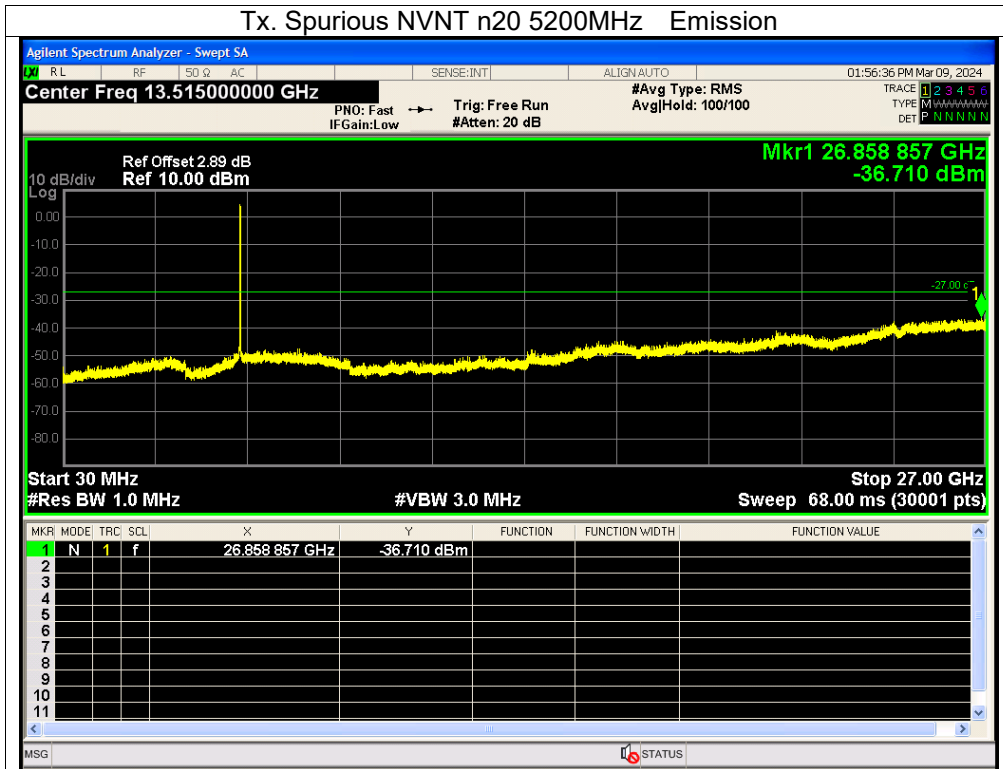
Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

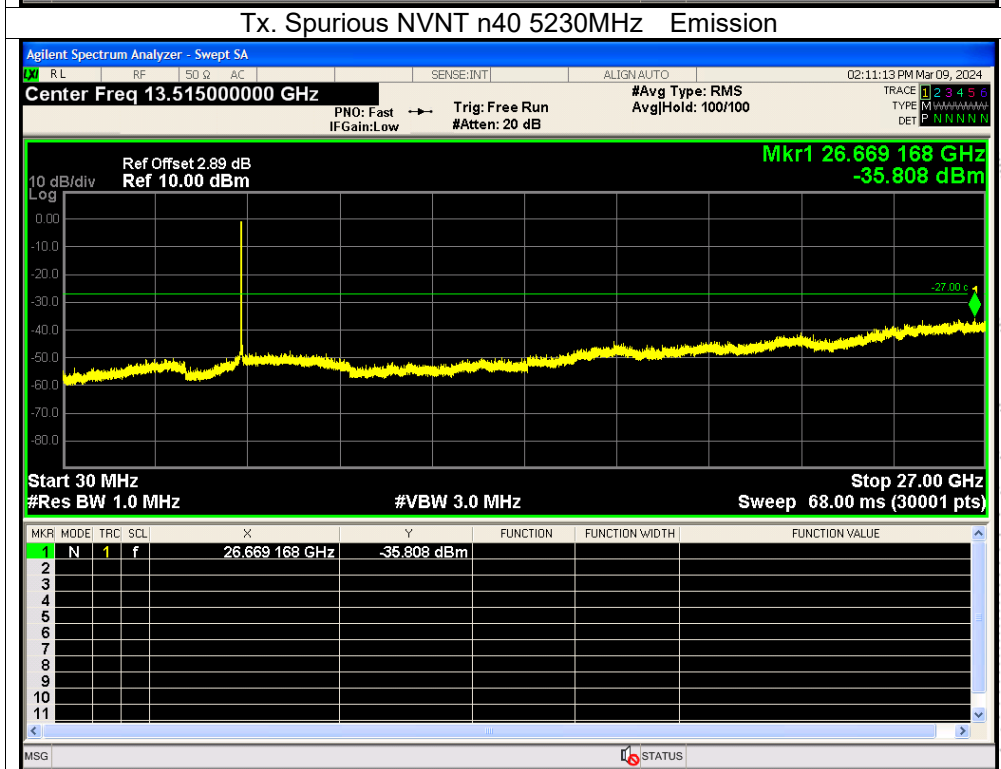
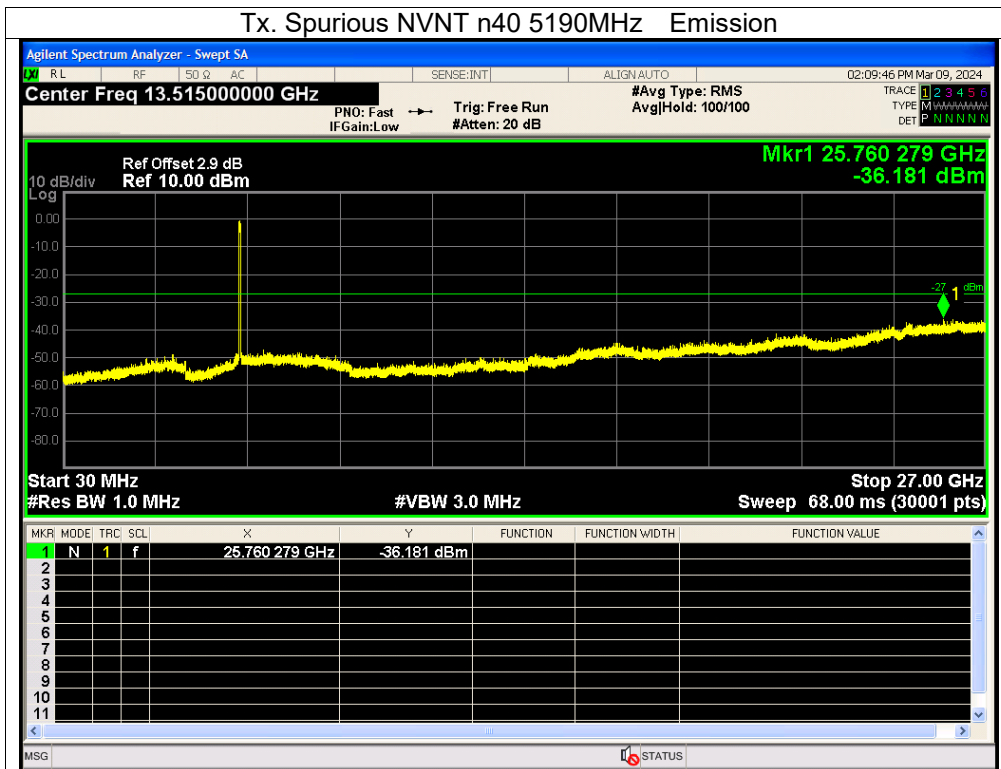
About: 26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

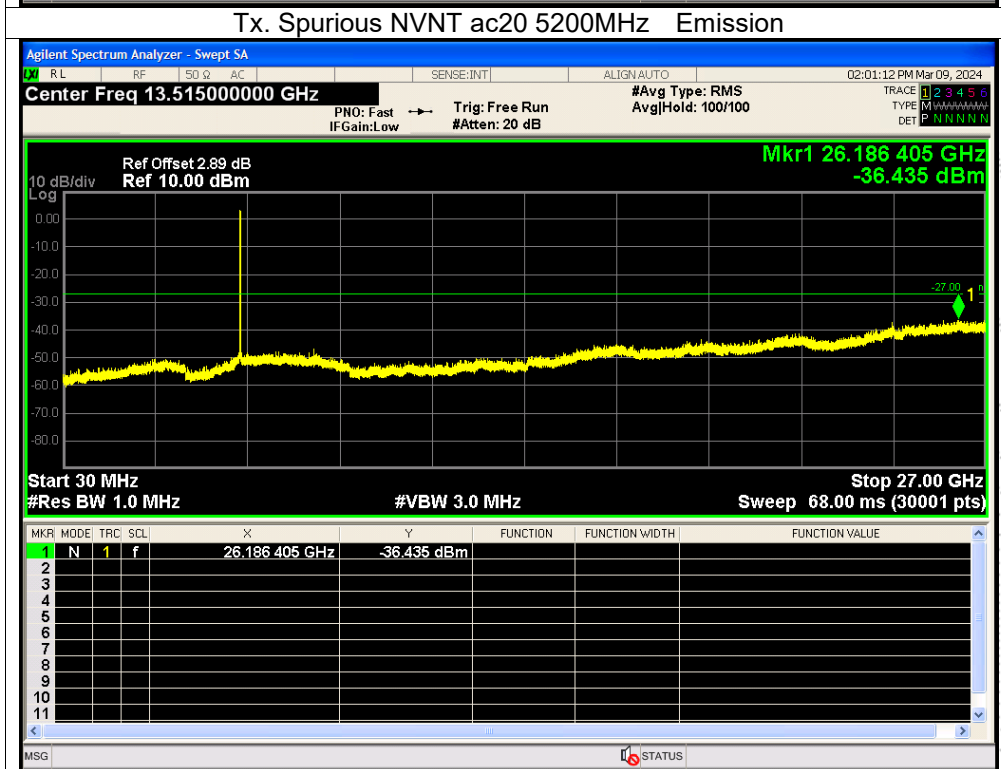
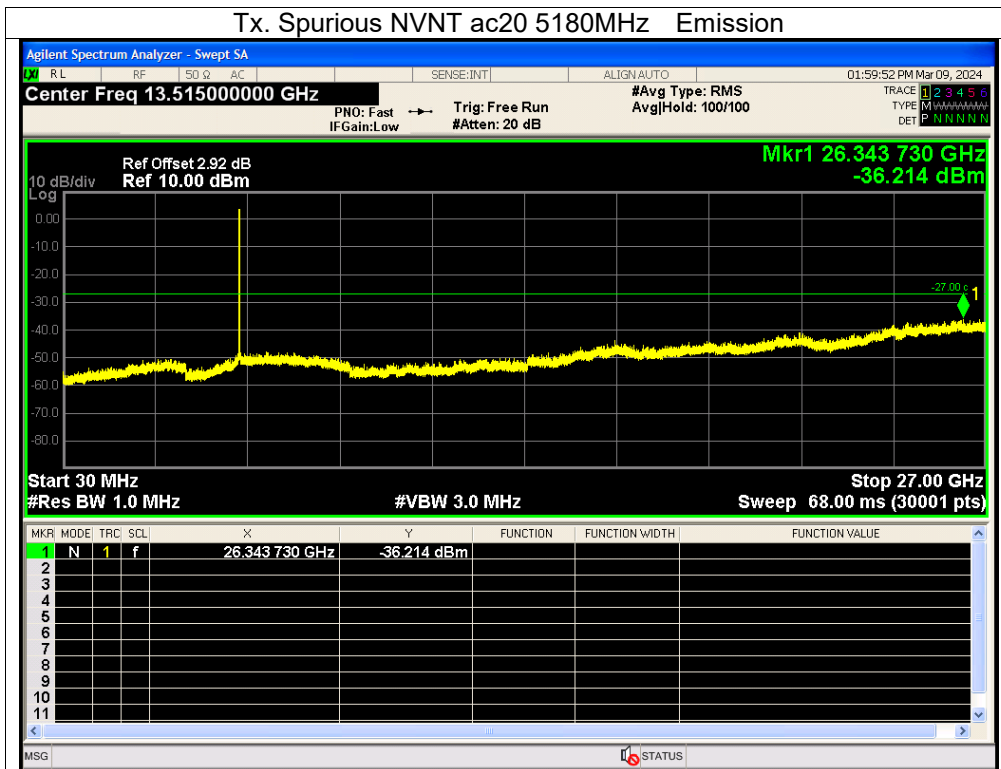
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot. Antenna A: 5180-5240MHz

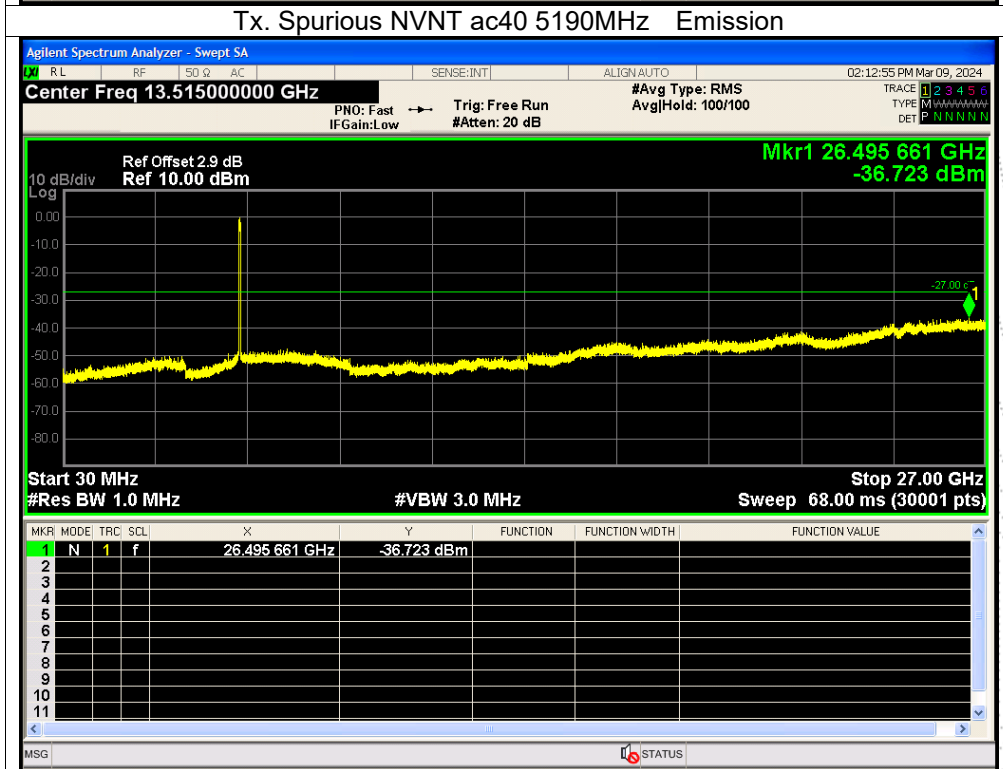
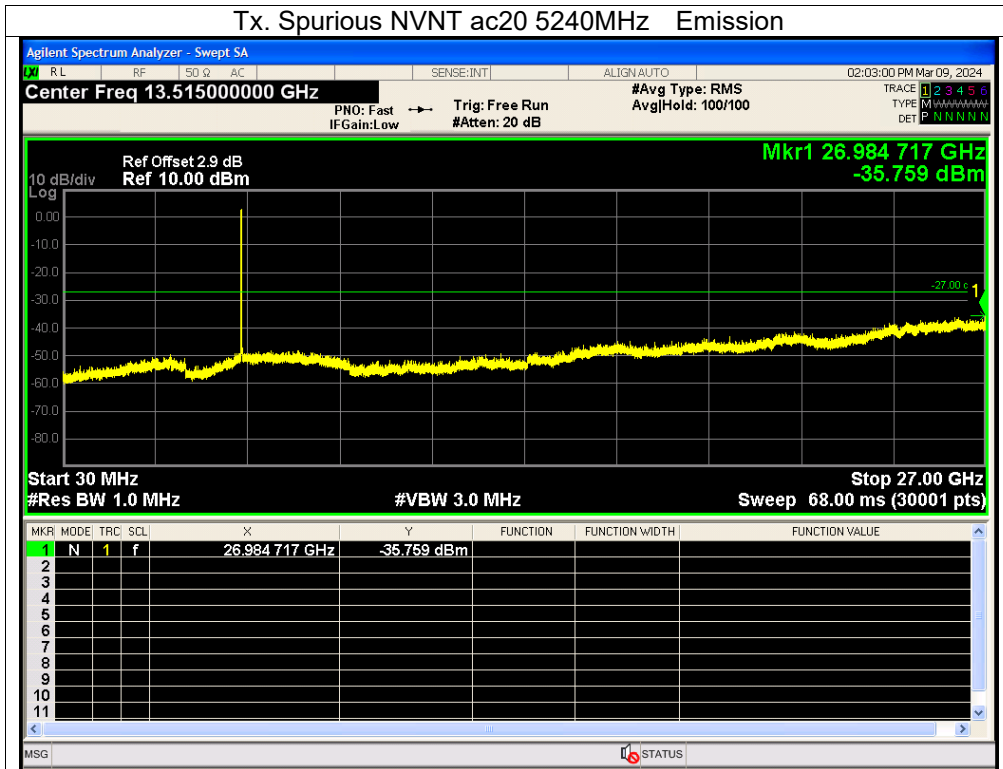


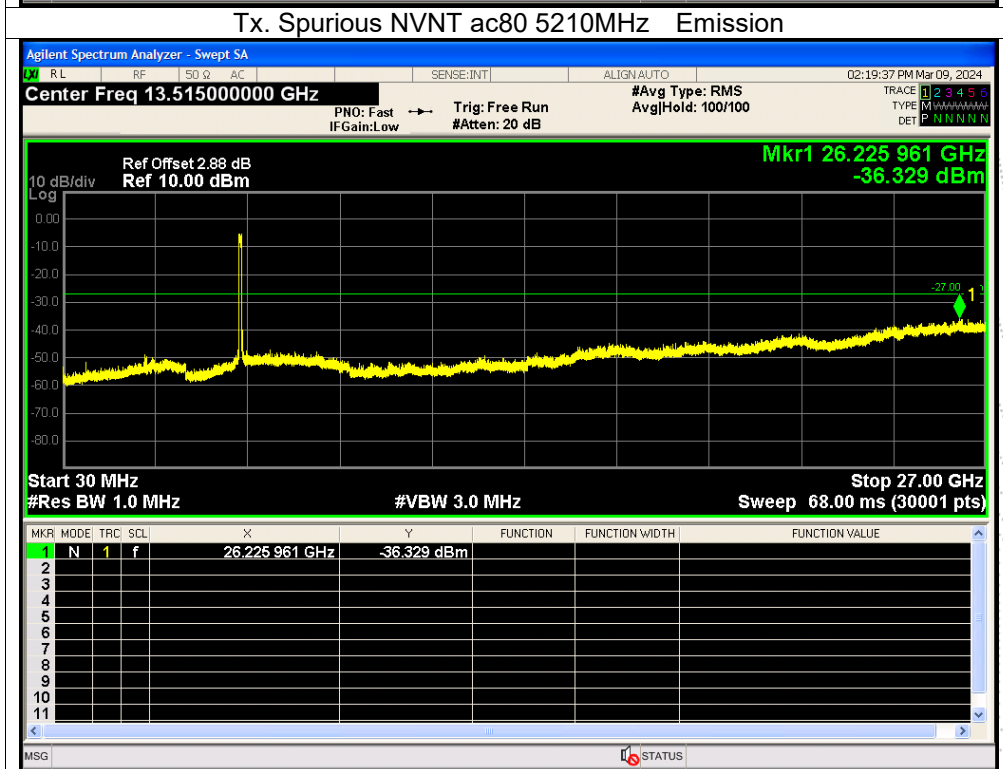
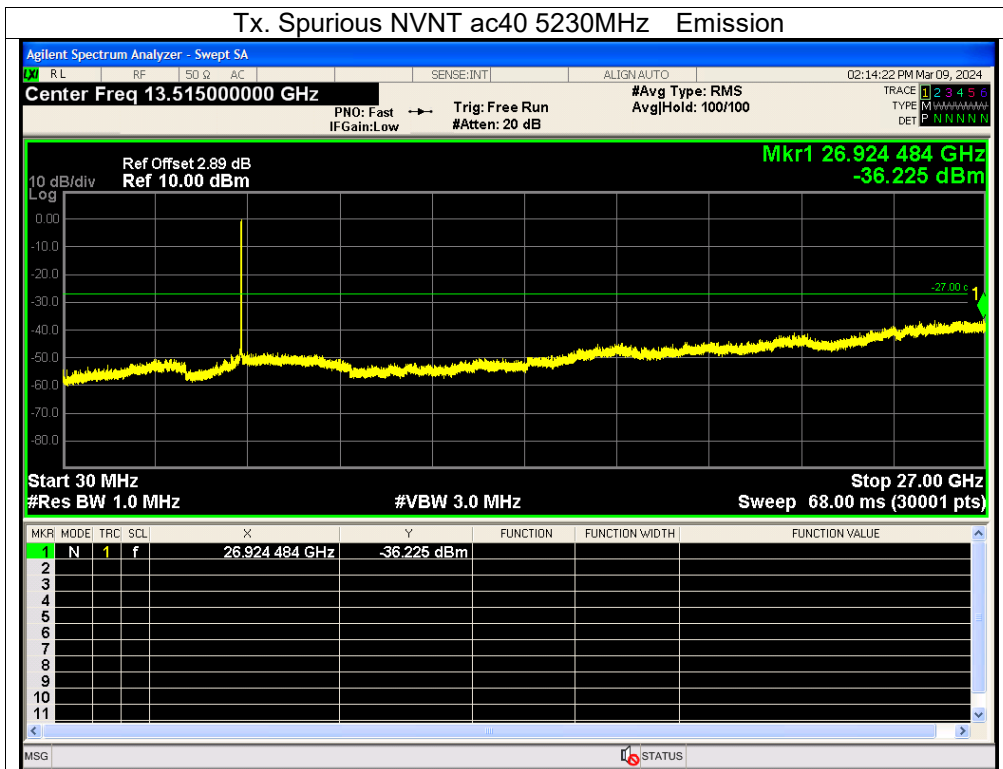


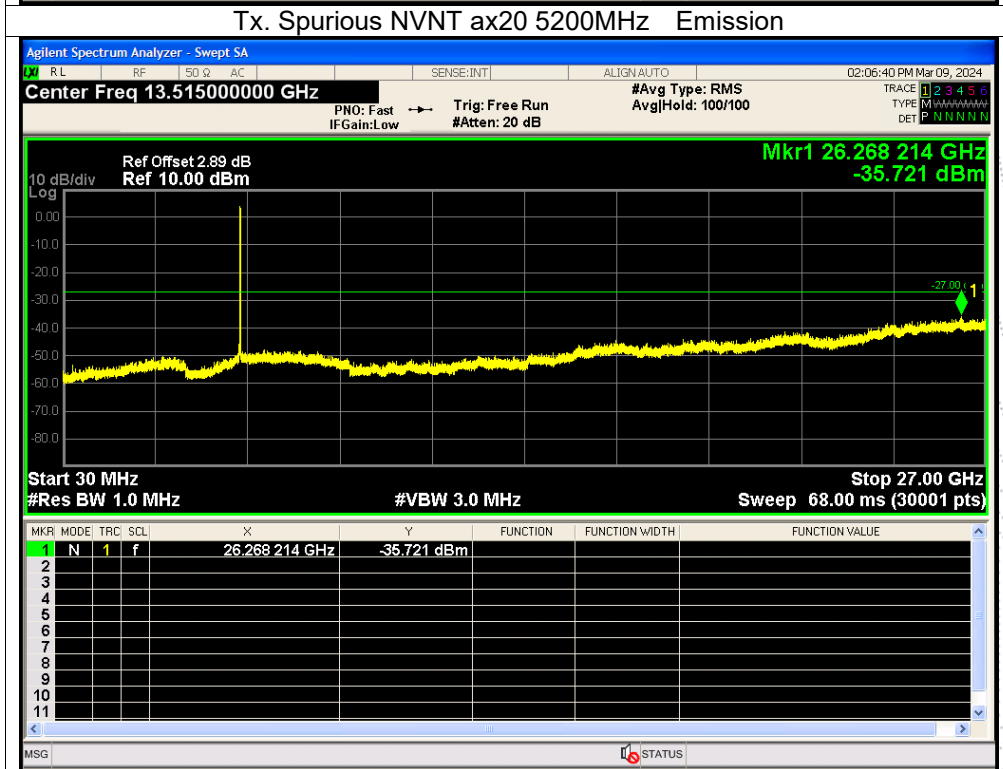
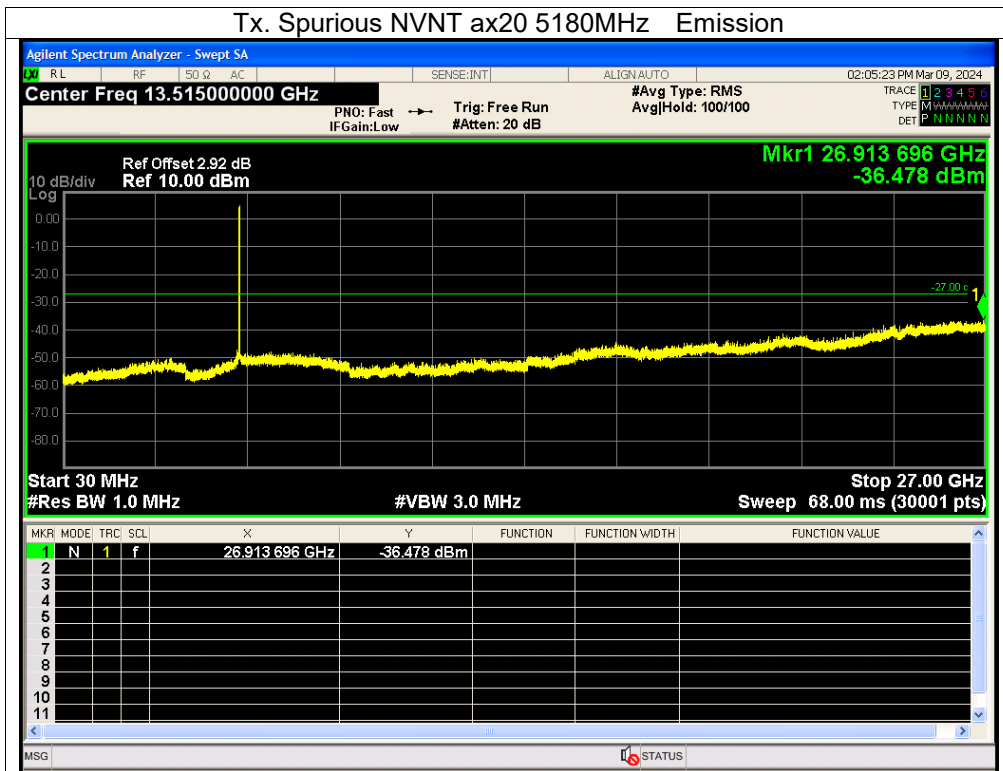


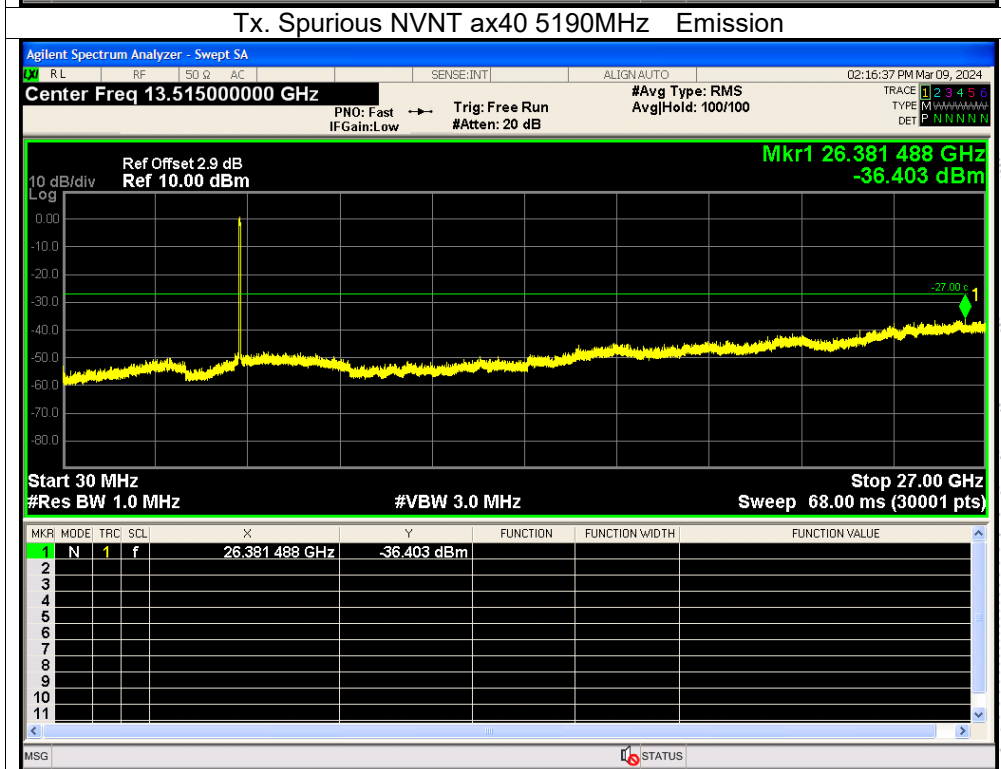
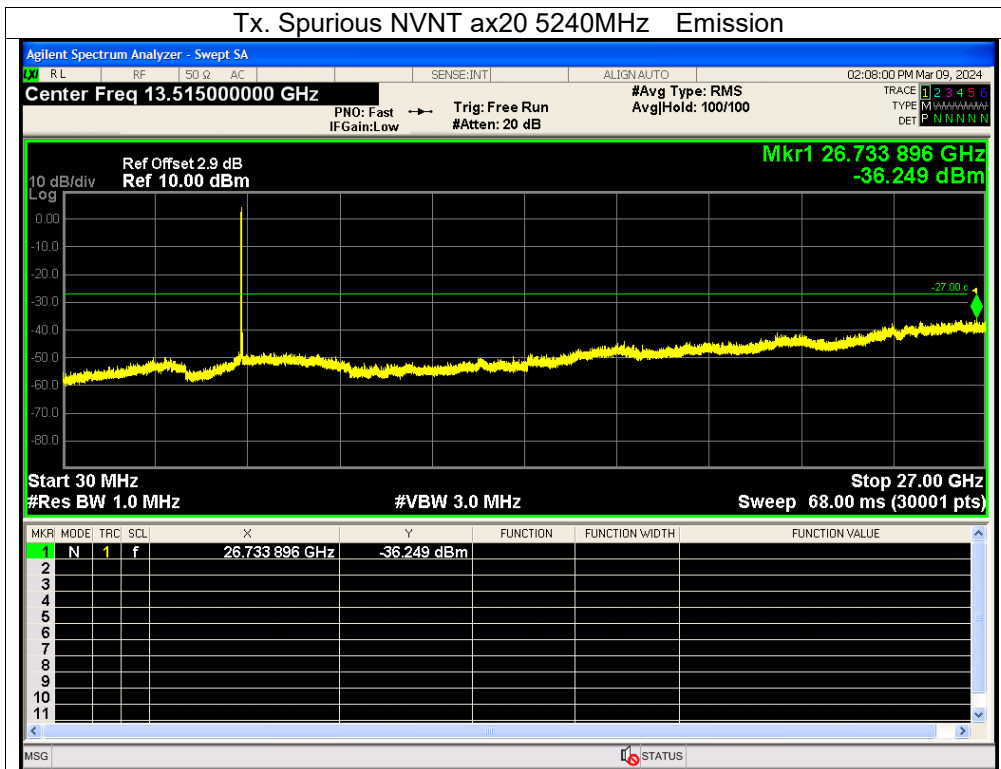


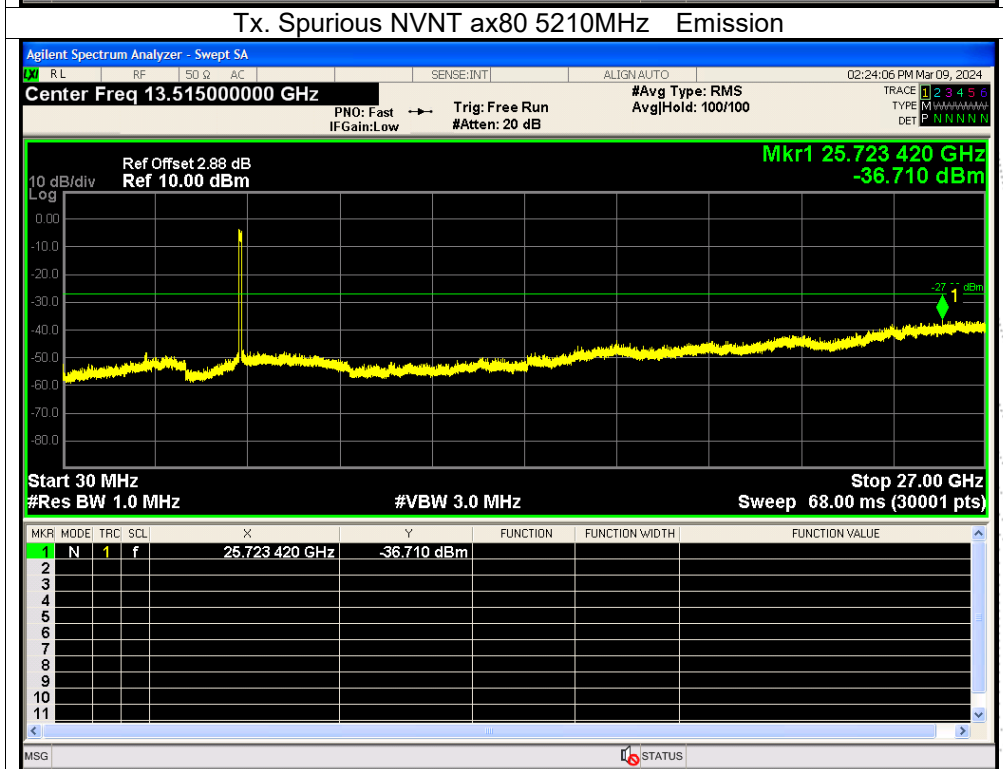
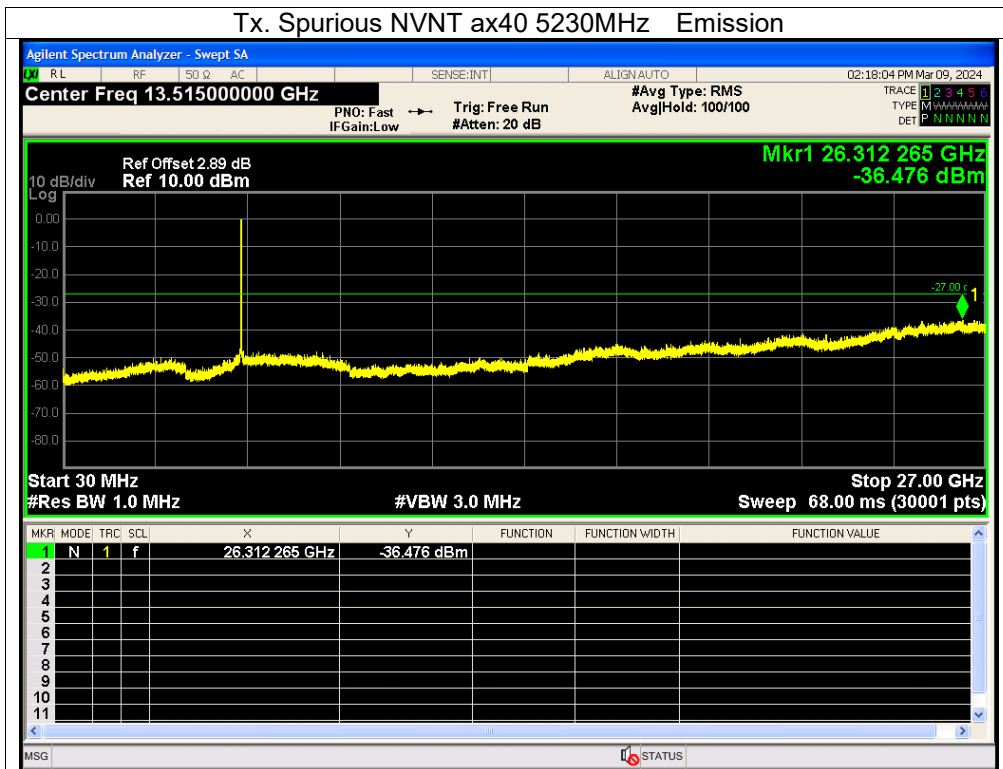




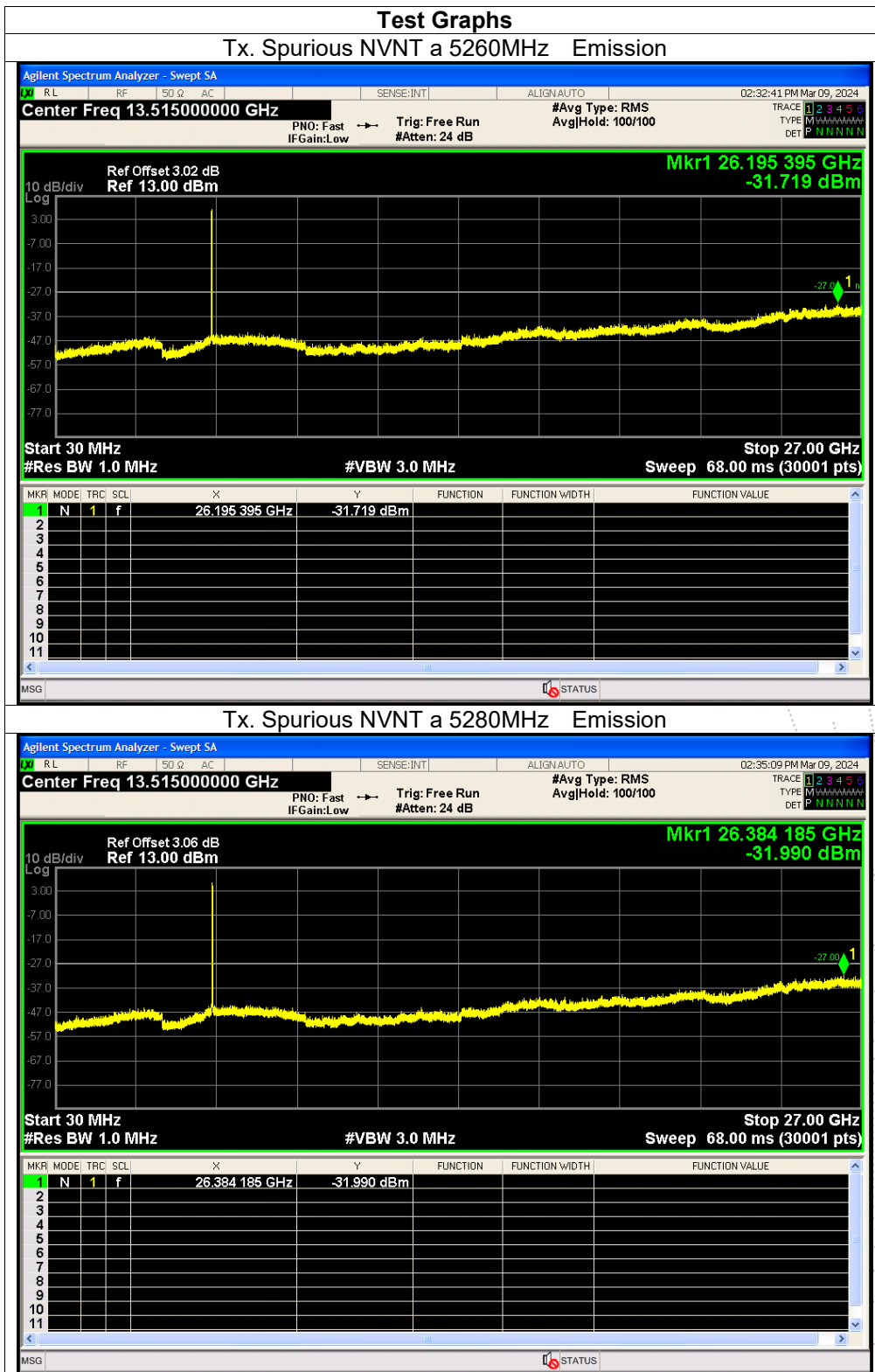


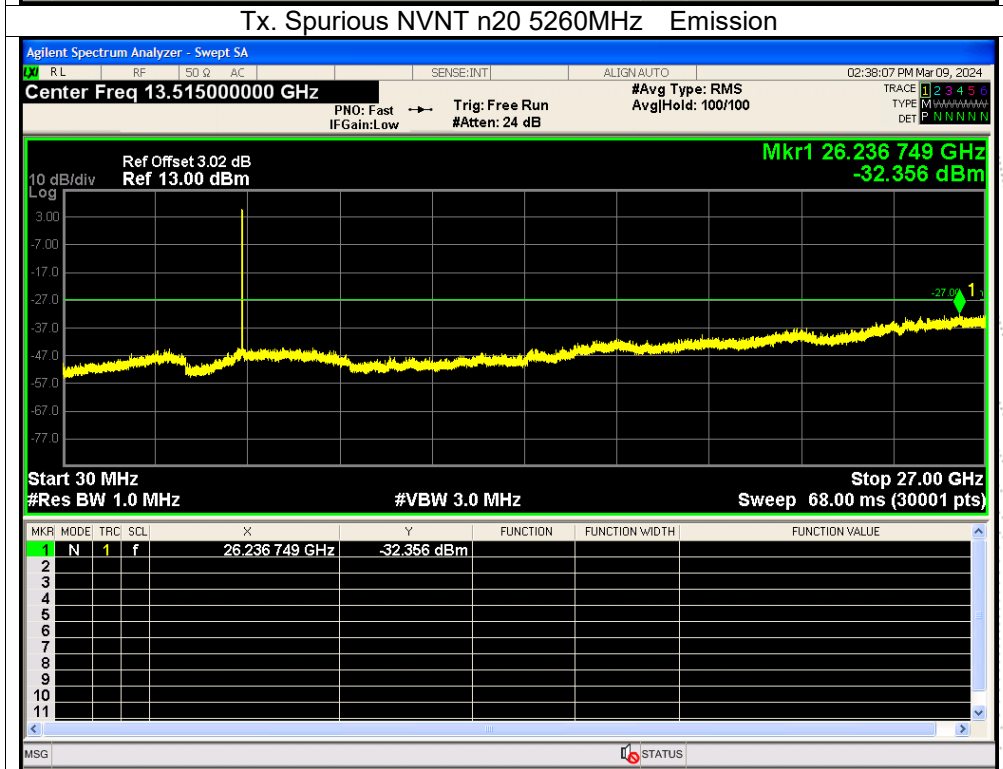
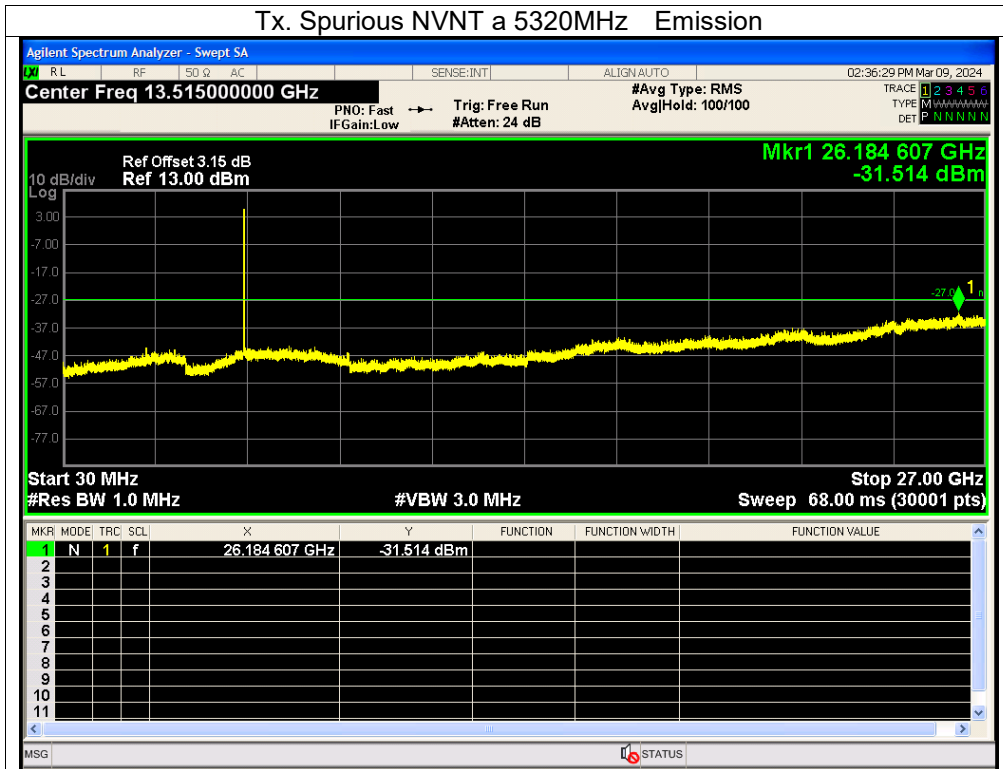


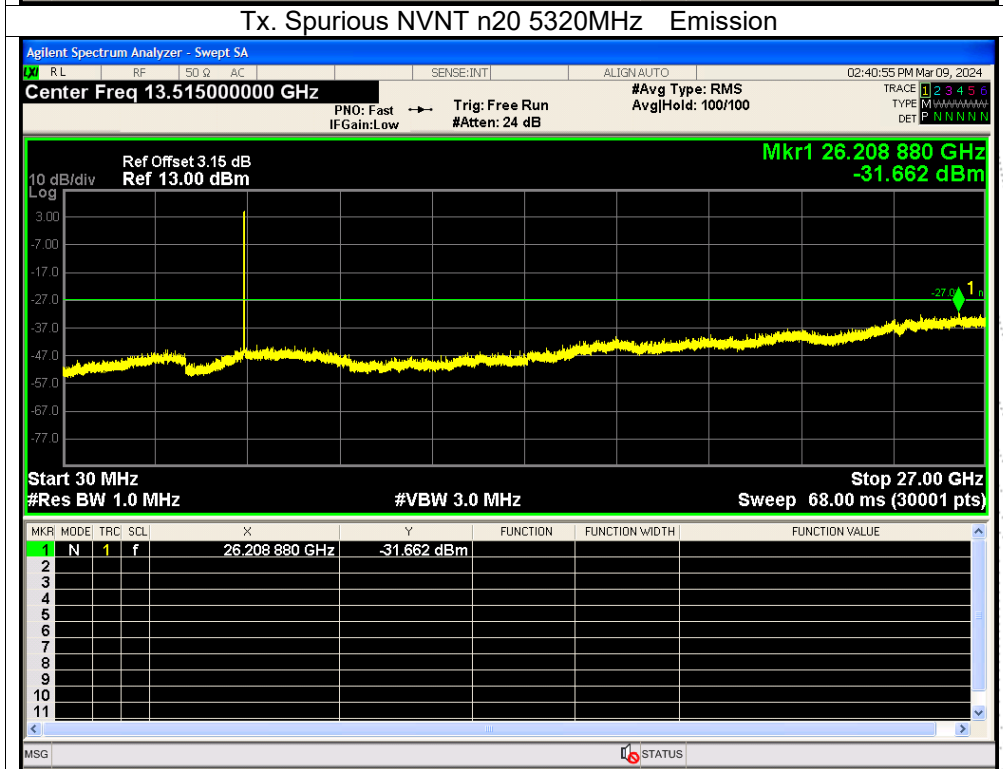
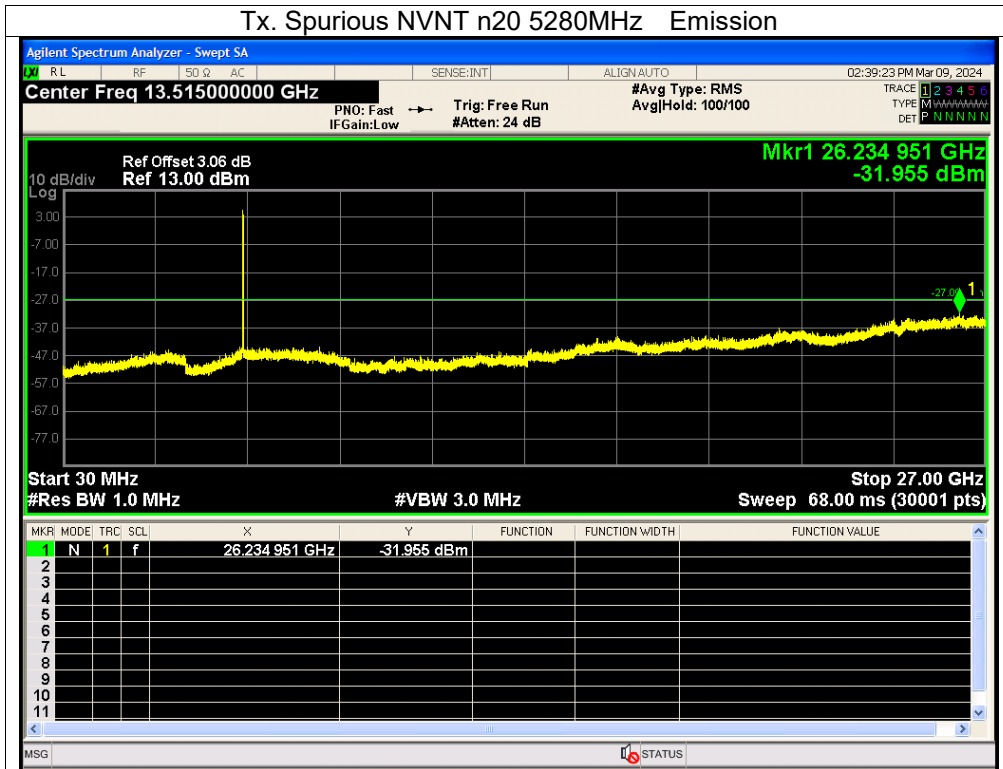


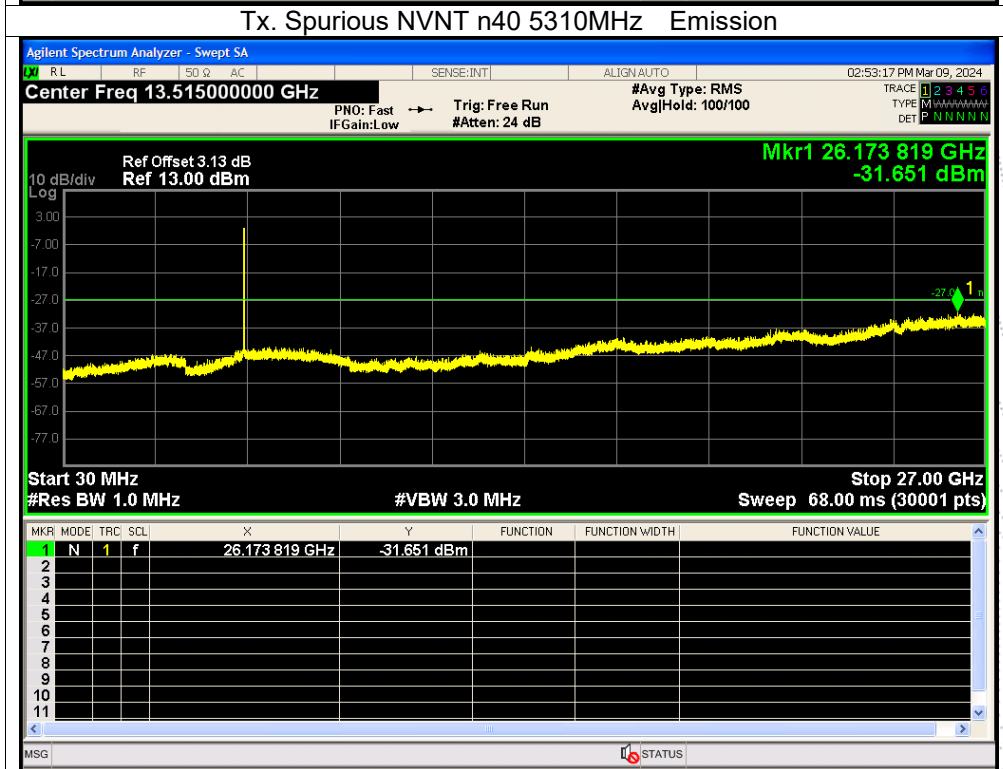
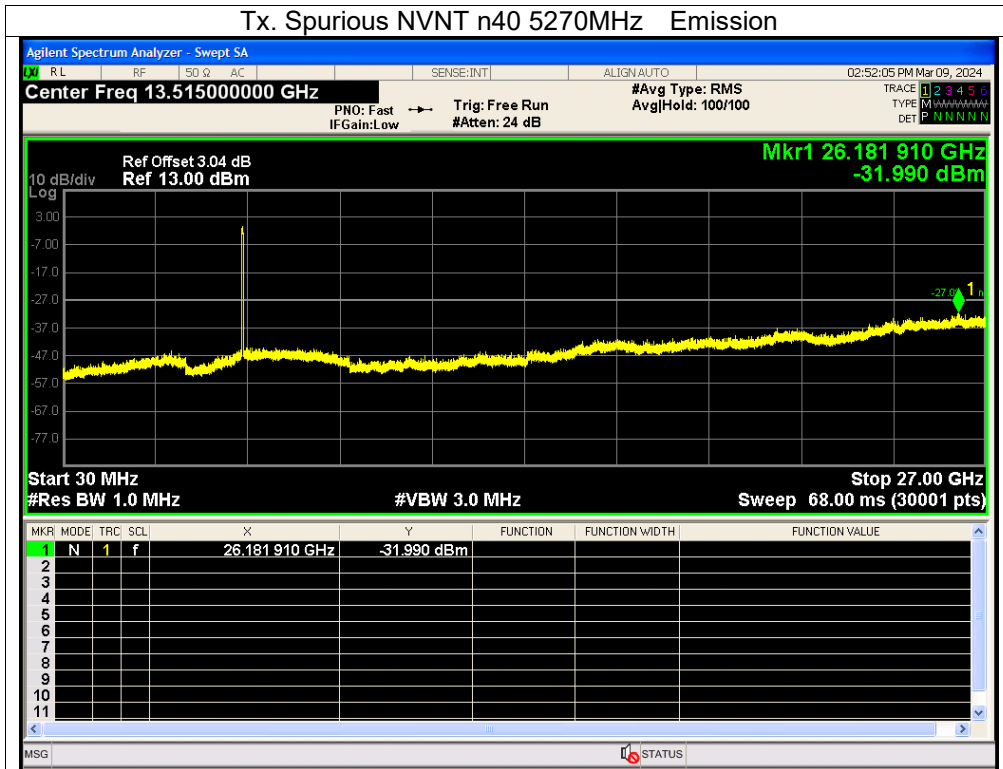


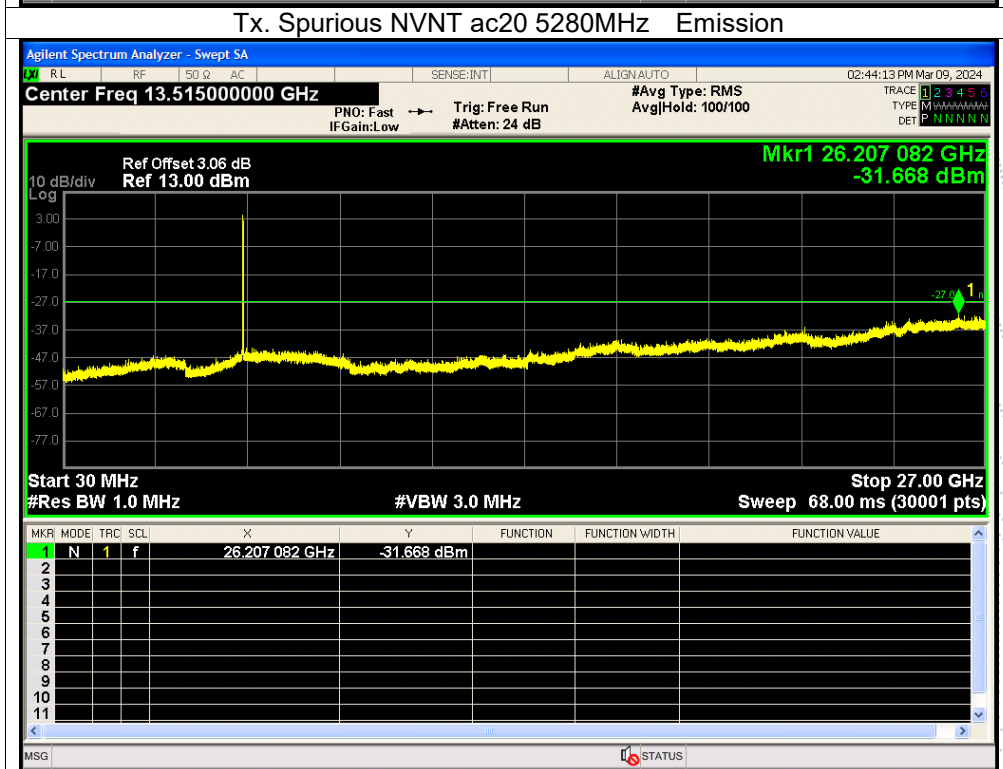
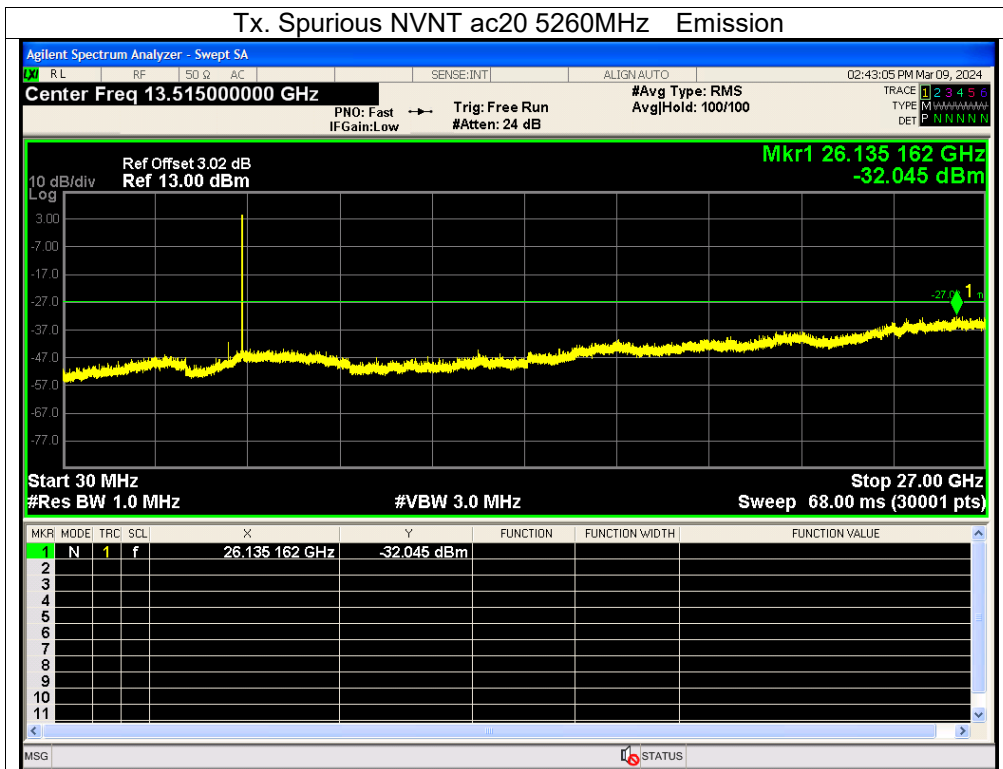
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A.
 Antenna A: 5260-5320MHz

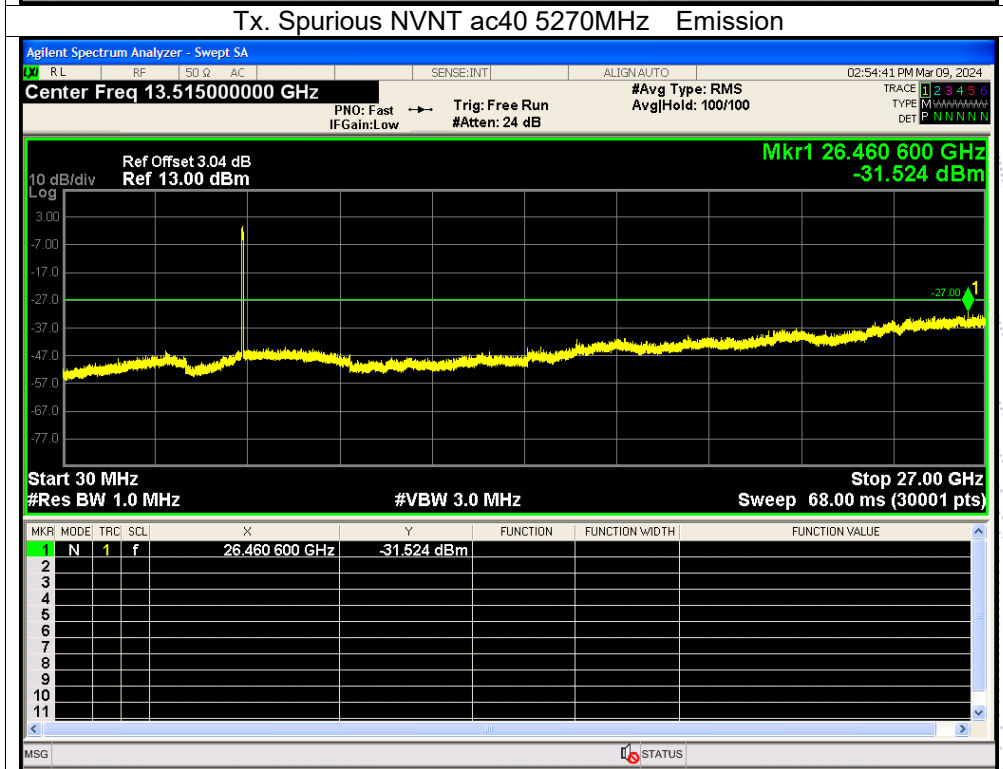
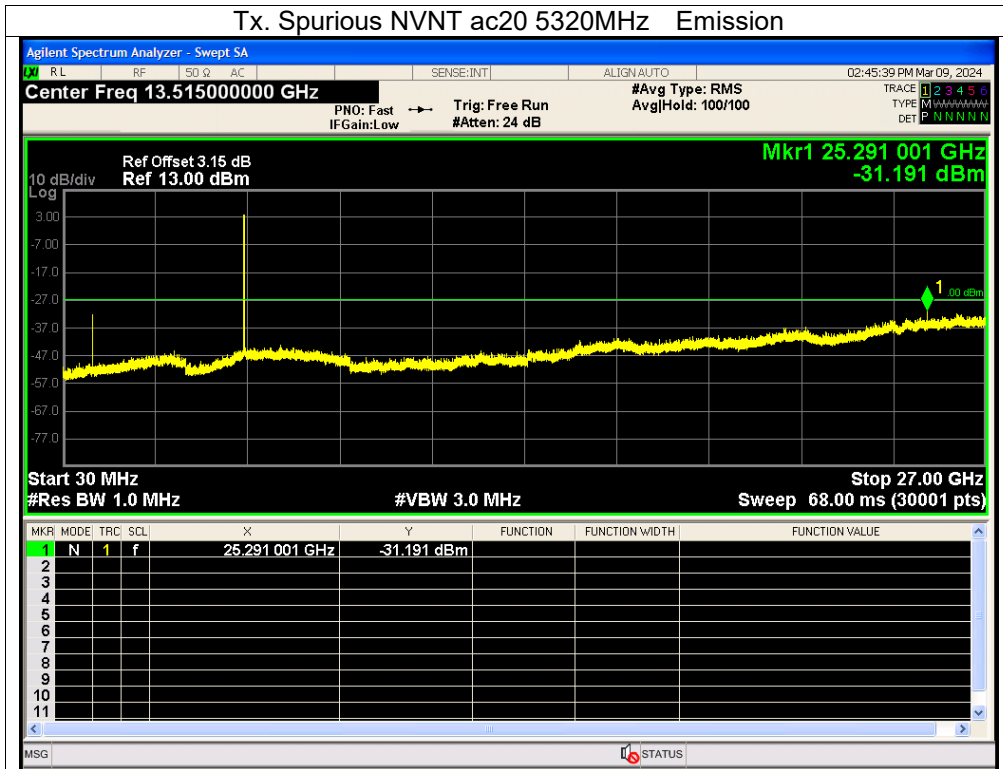


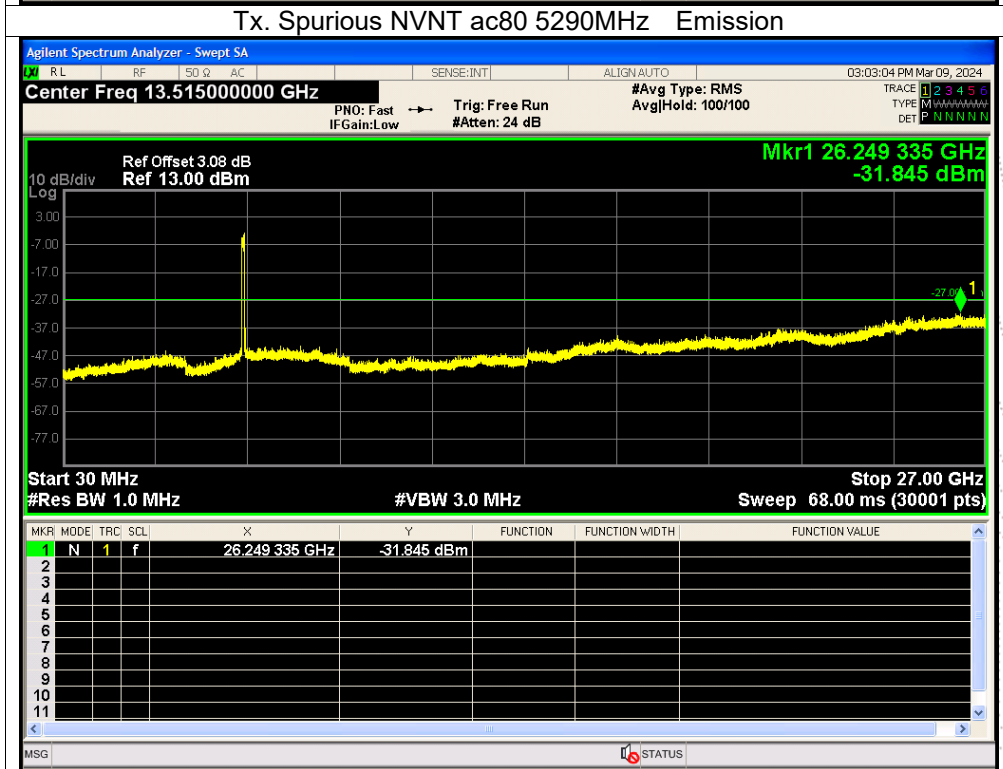
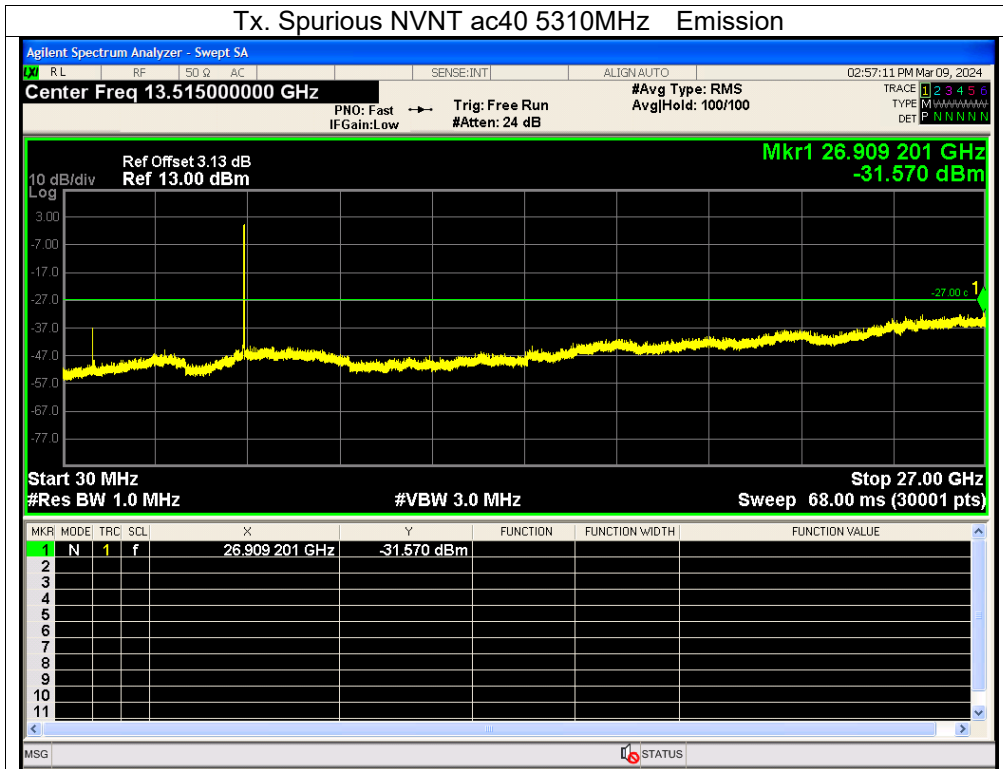


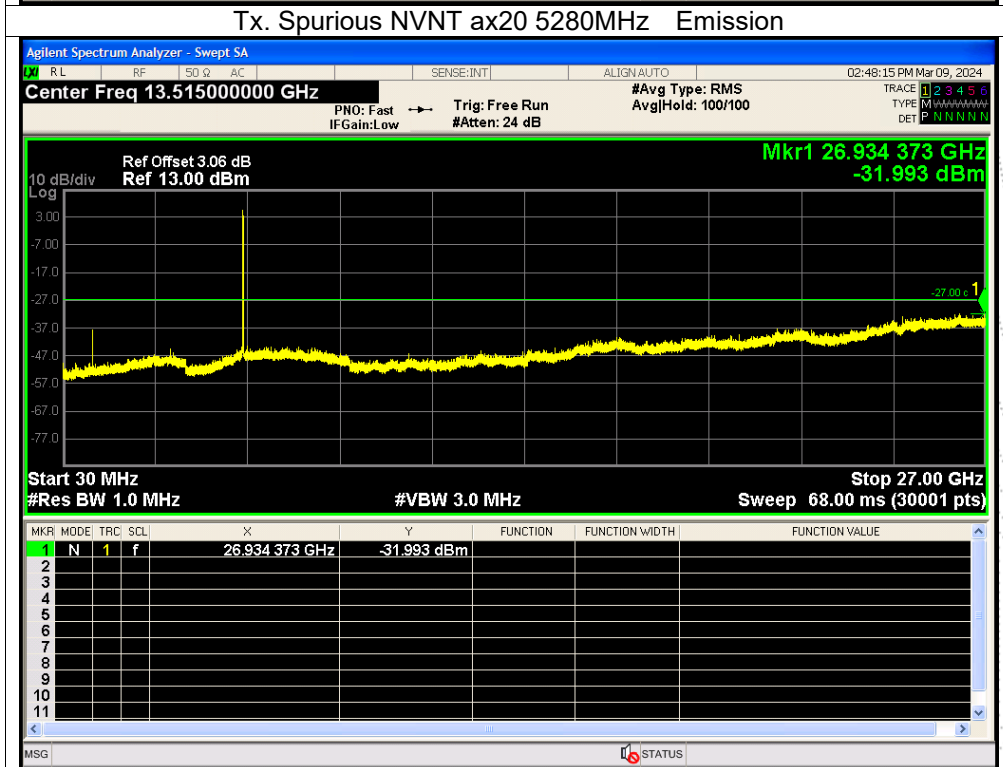
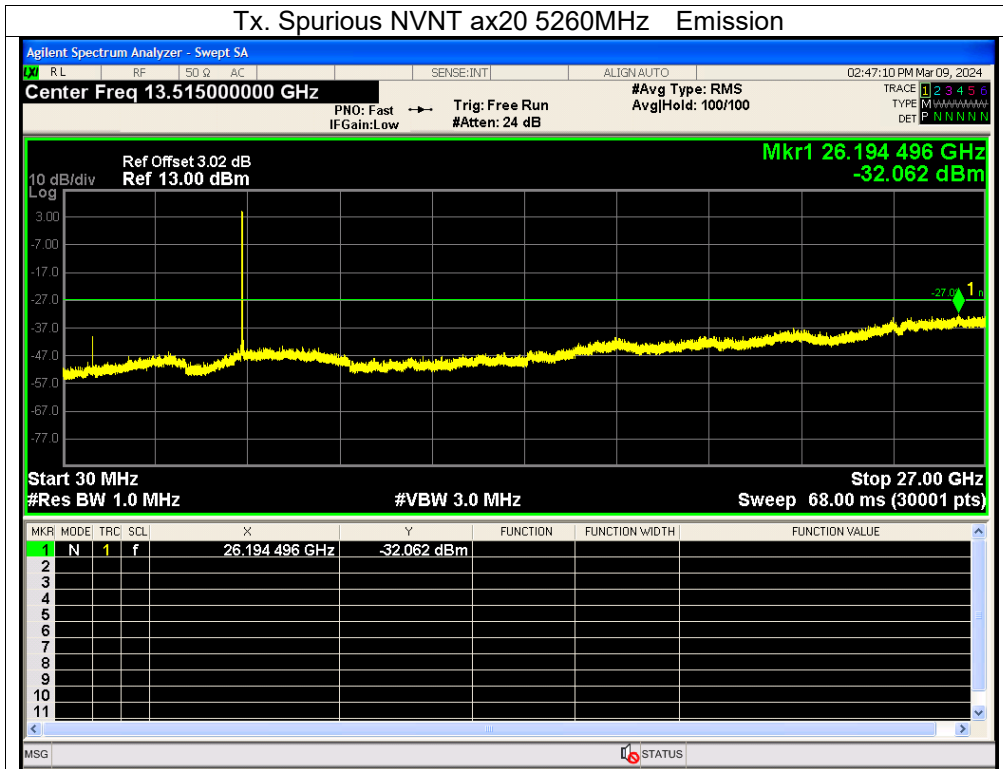


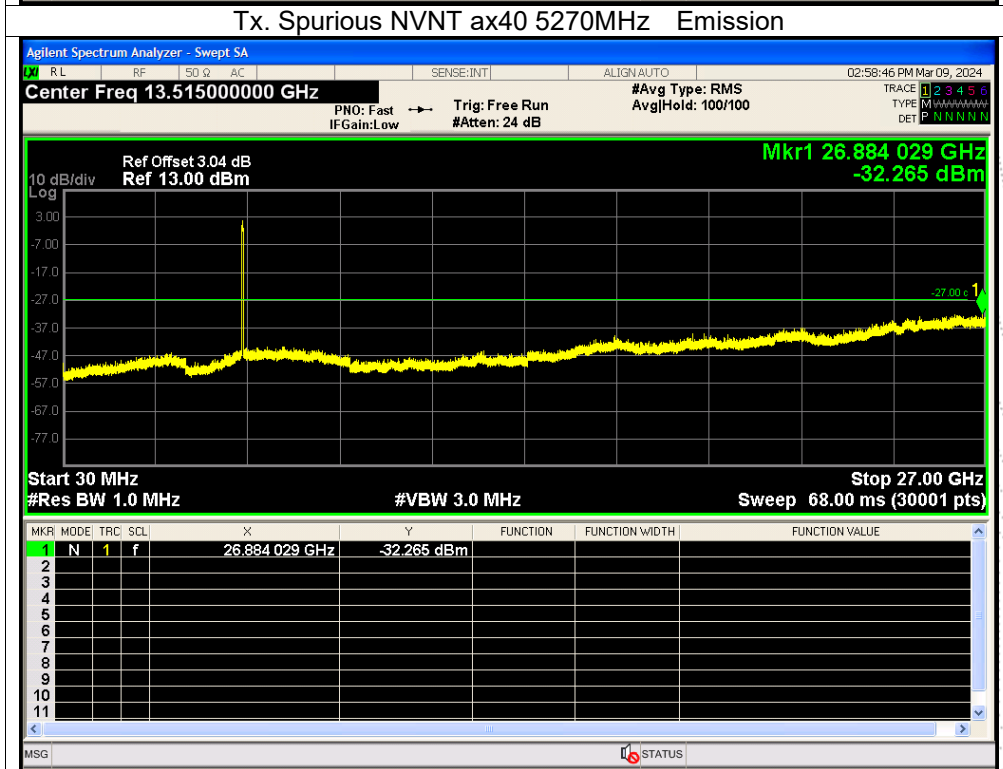
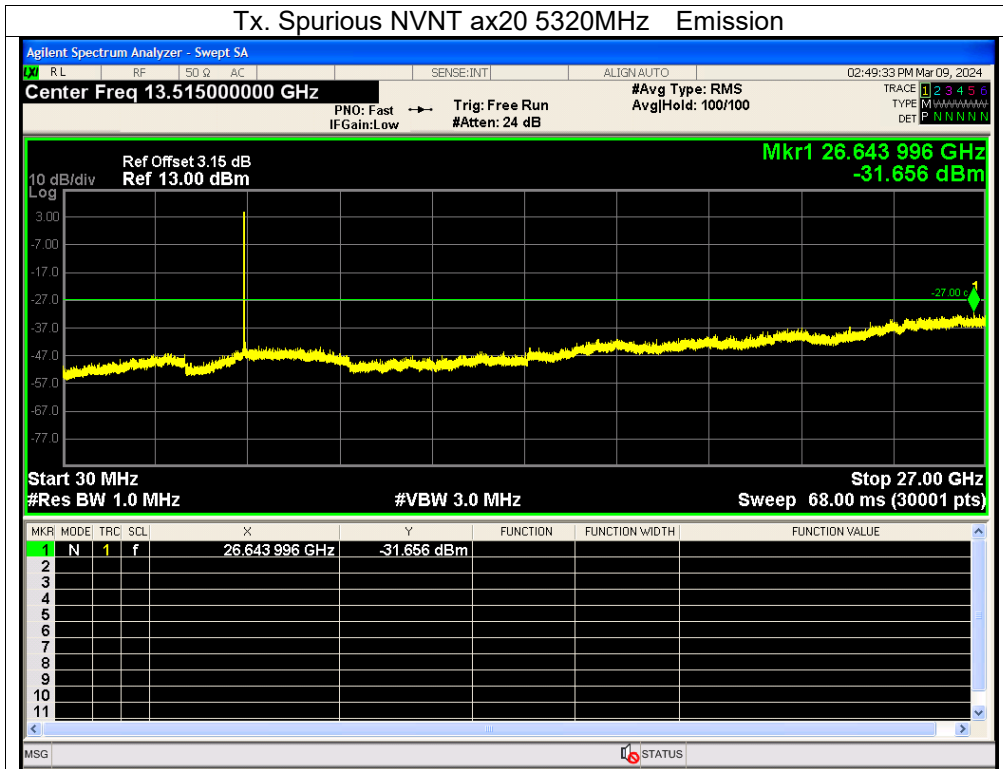


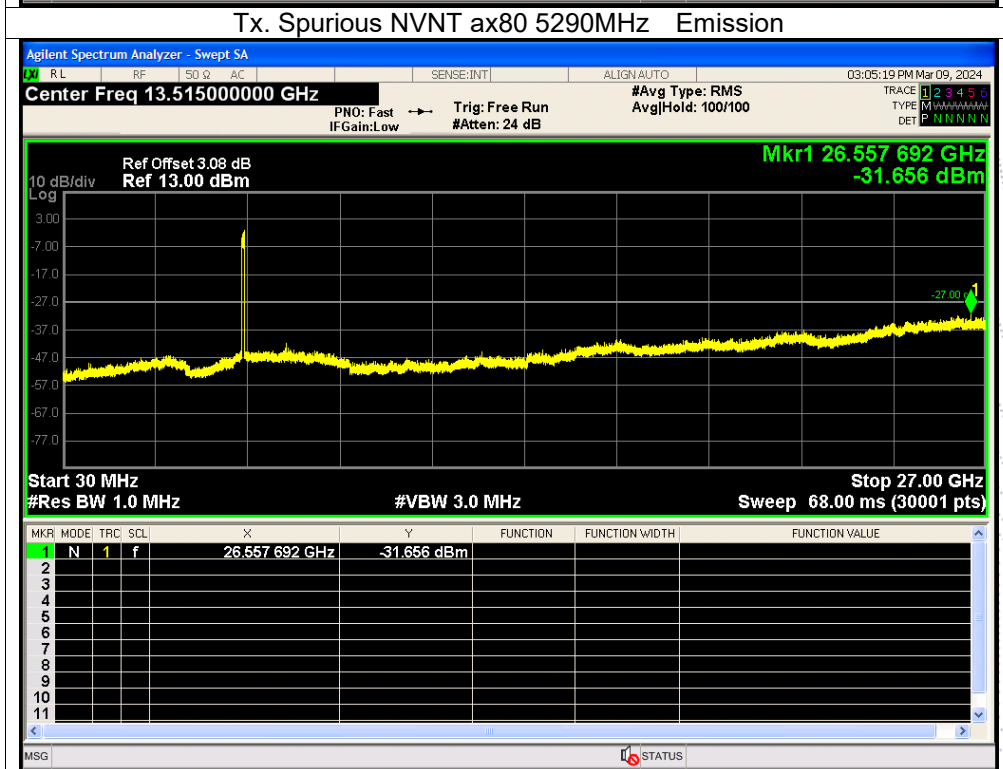
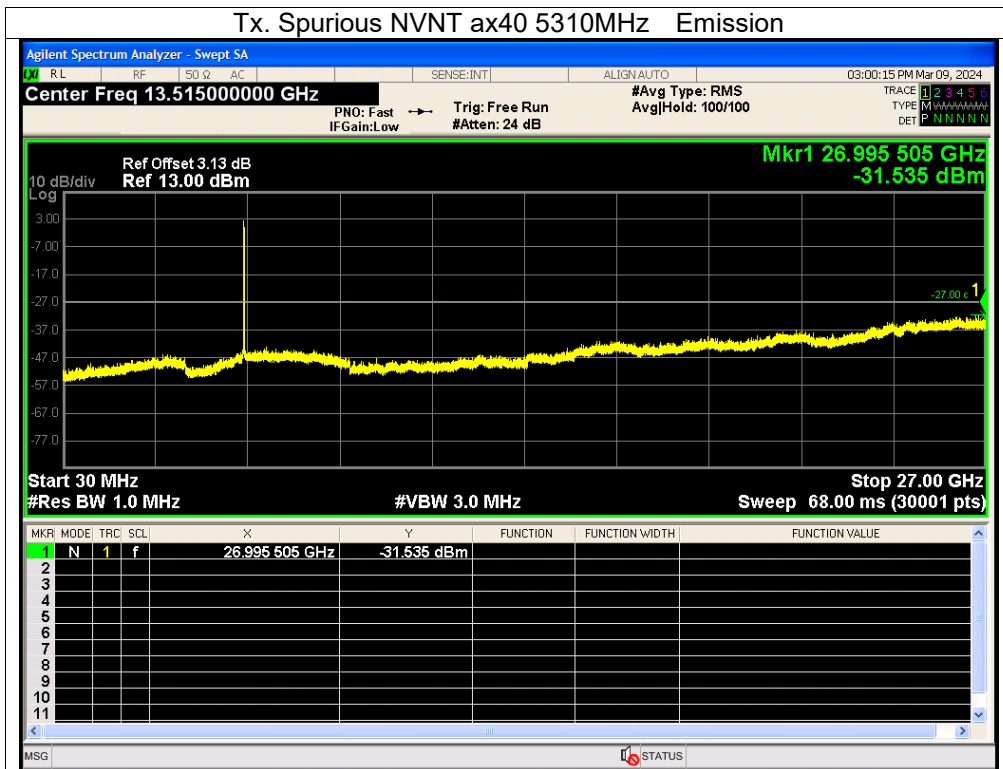




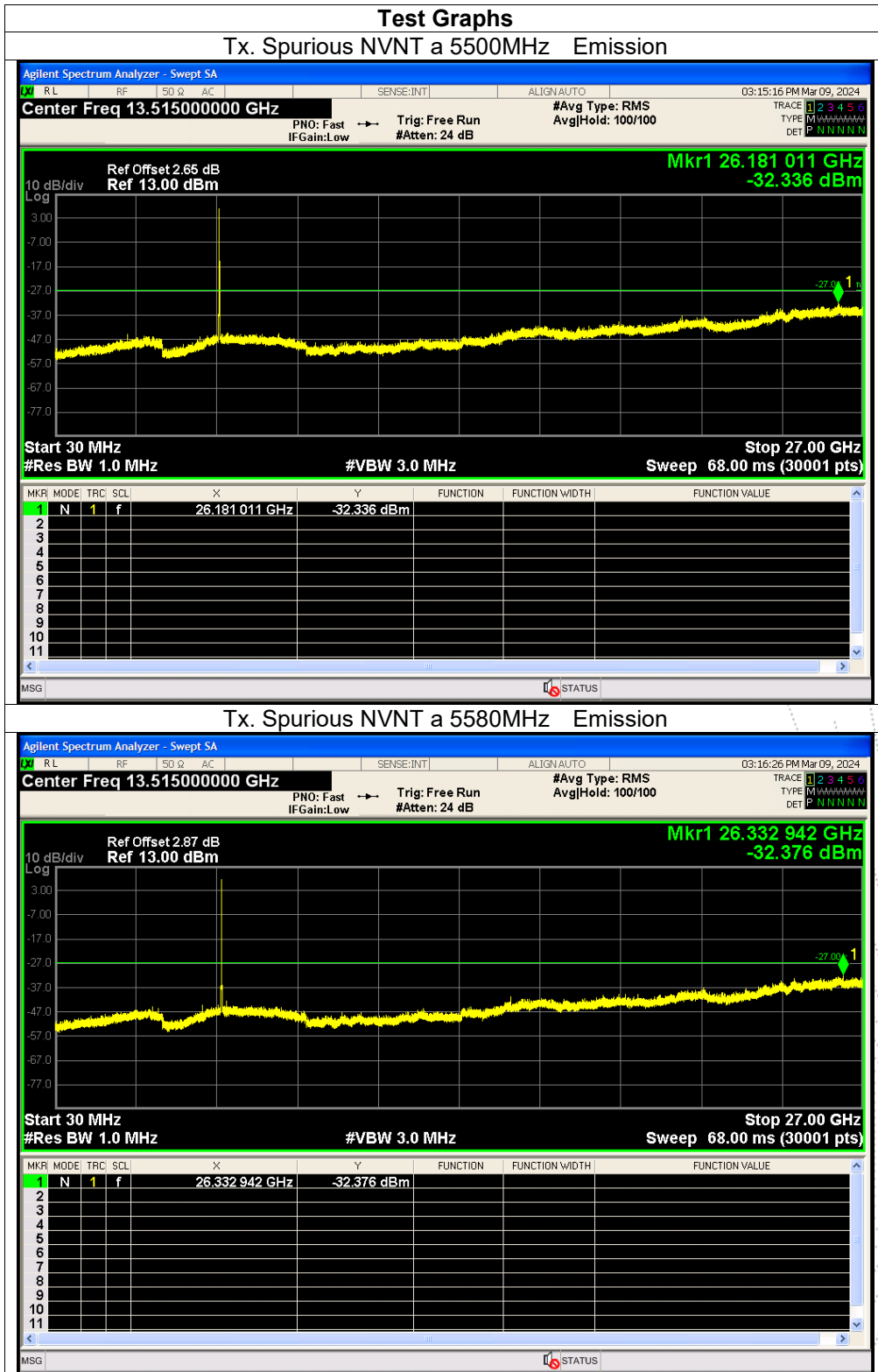


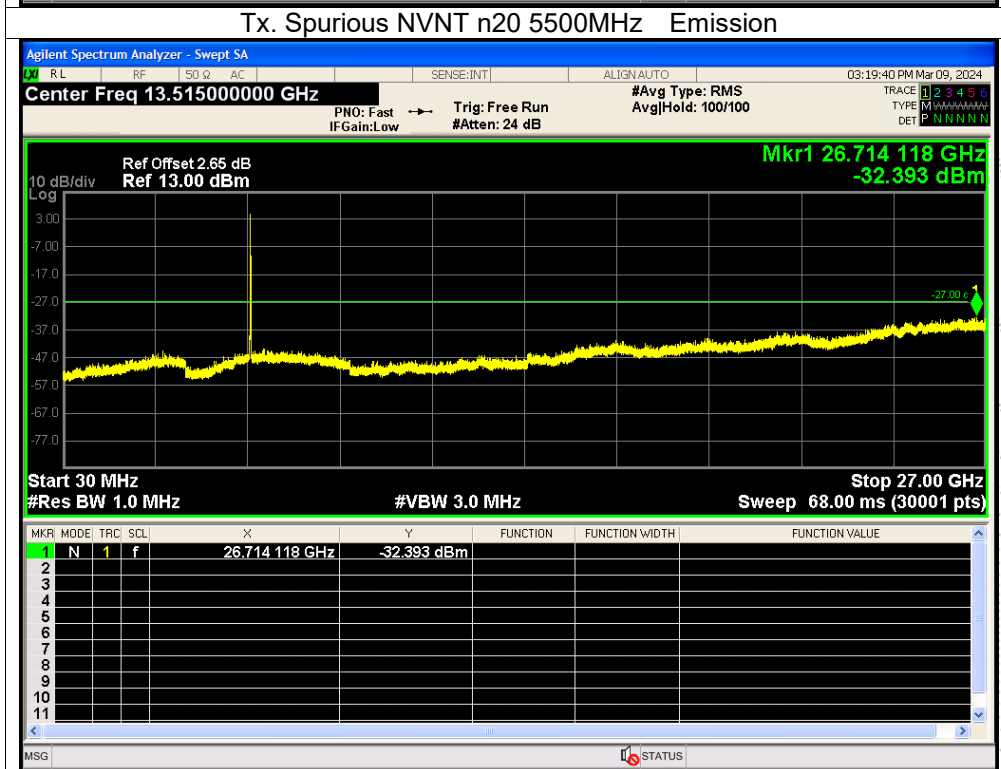
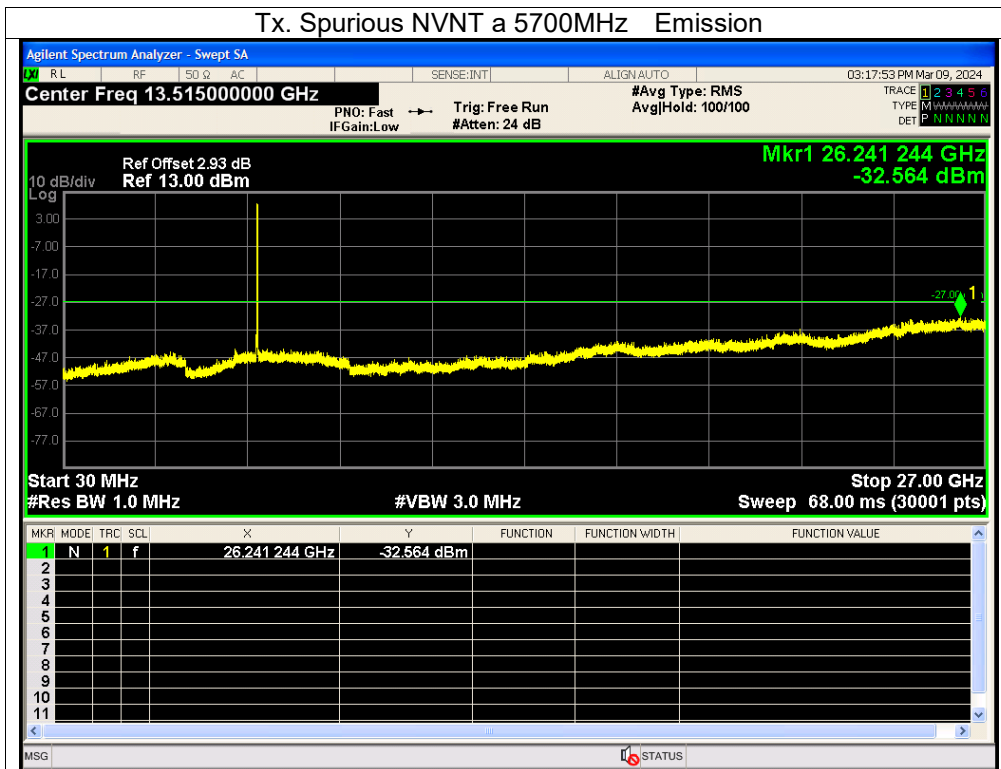


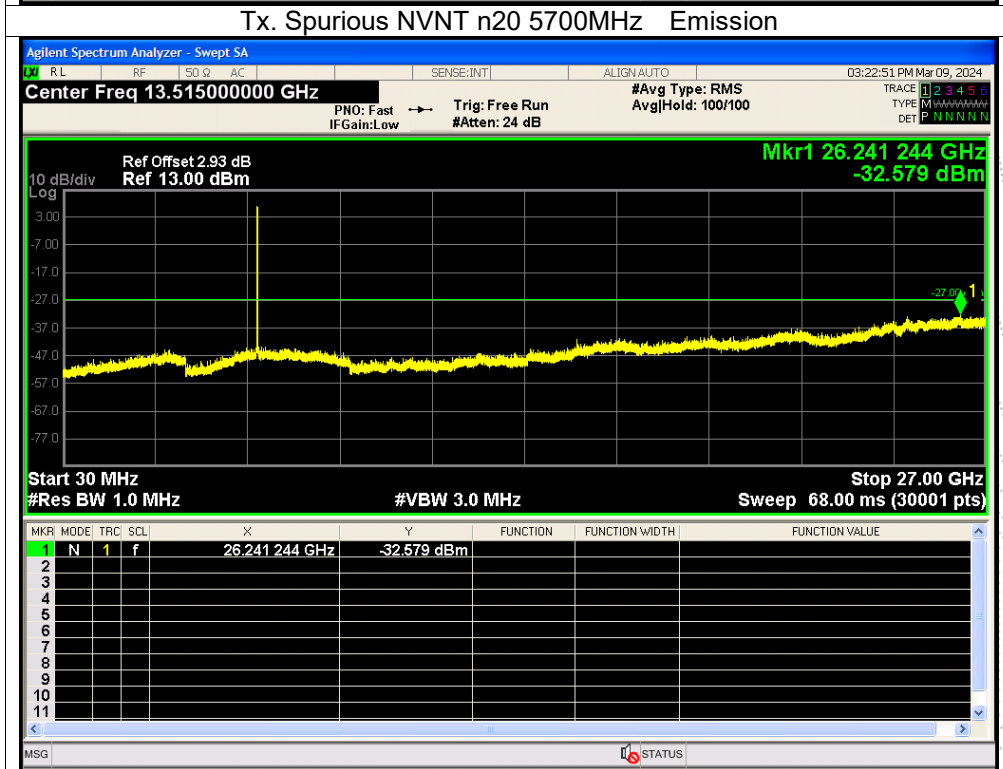
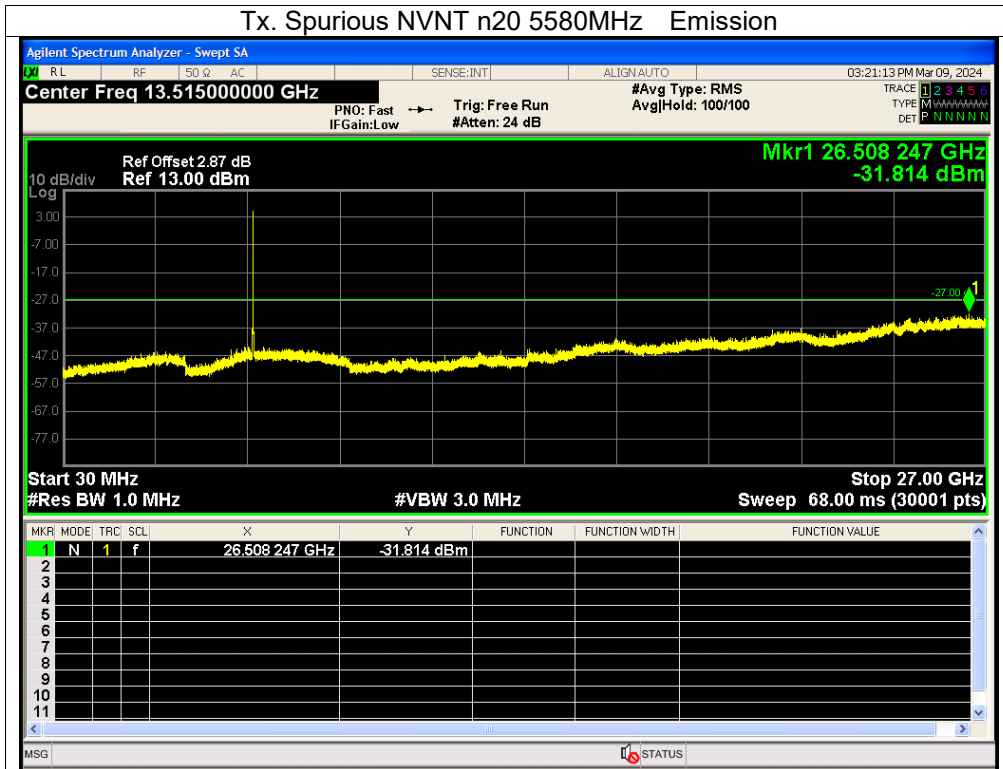


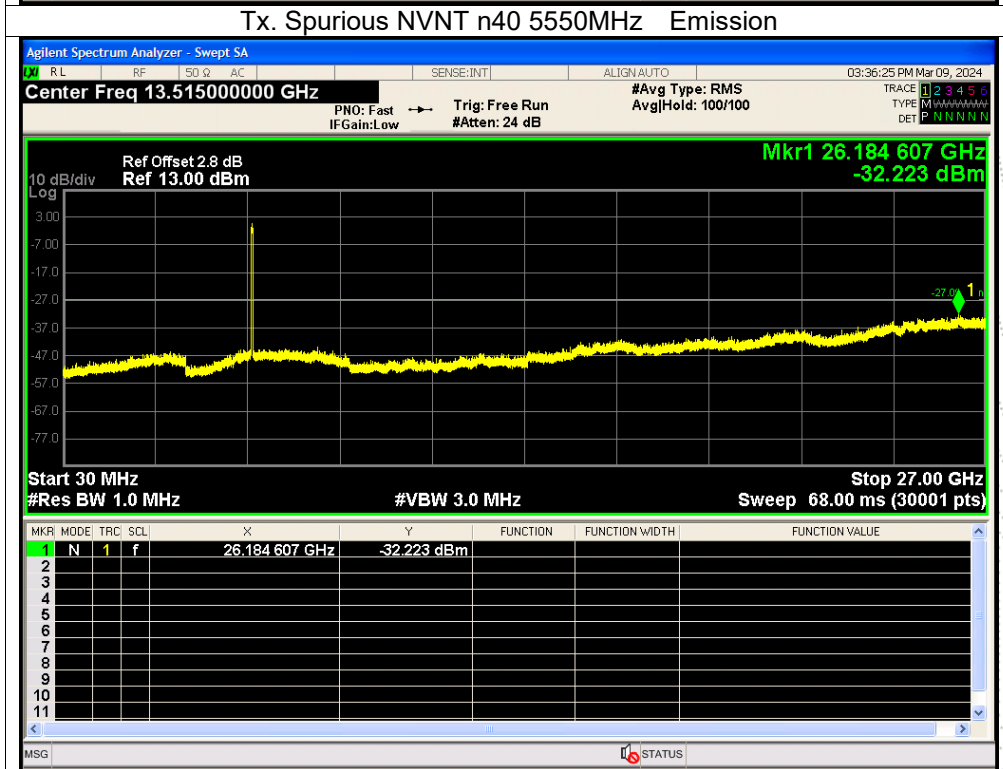
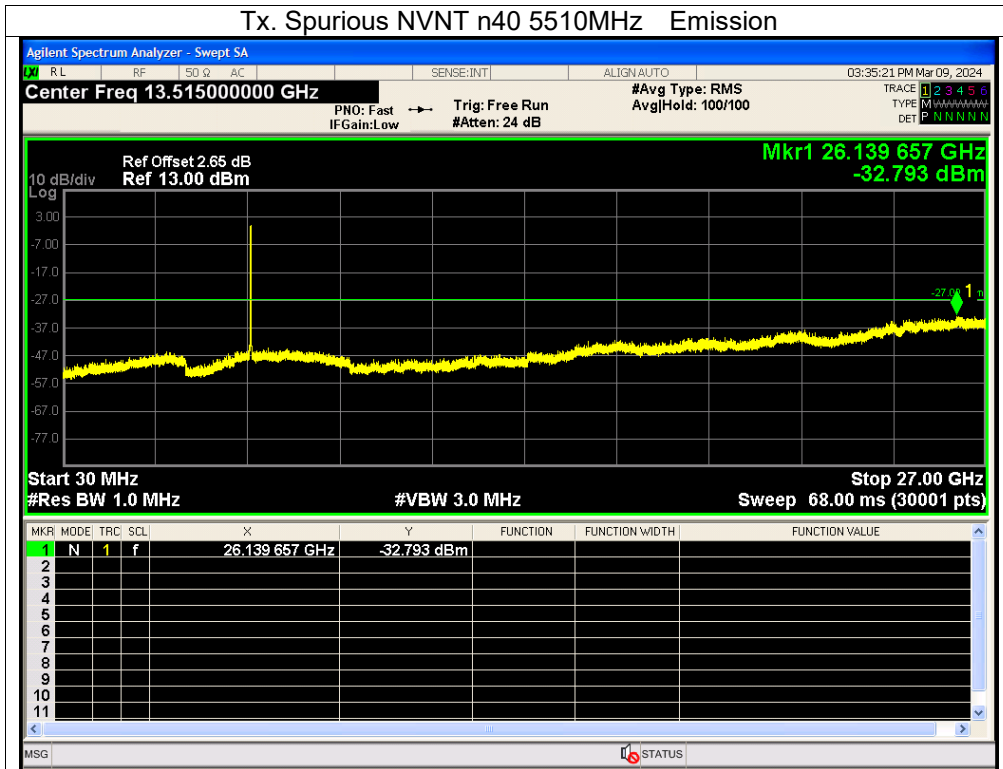


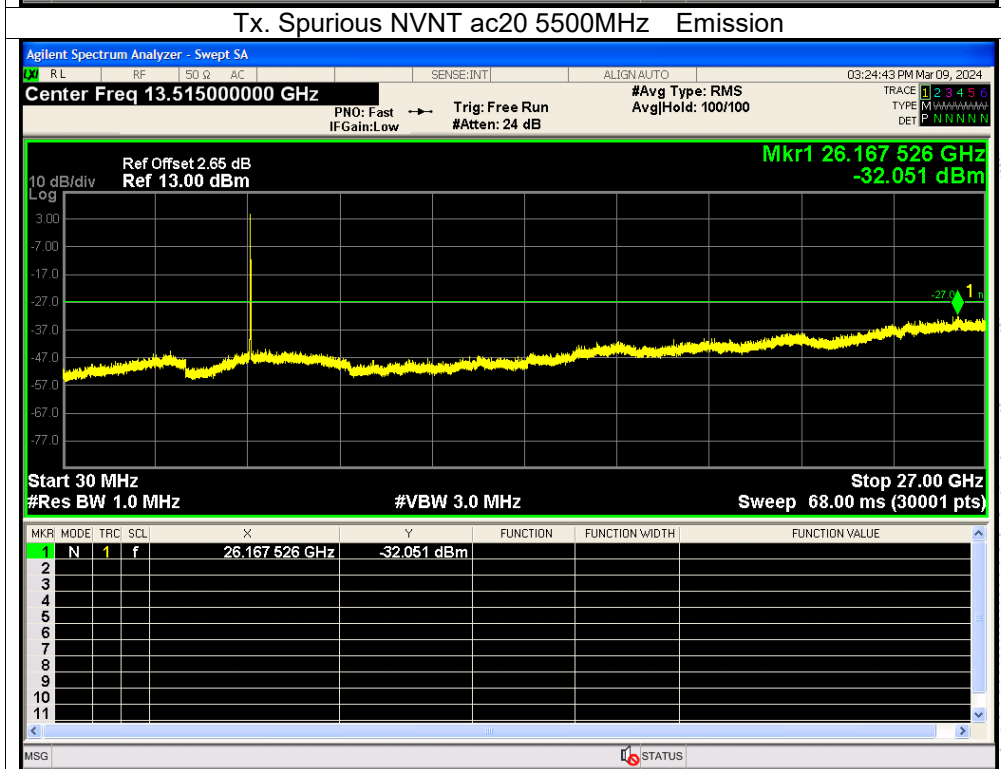
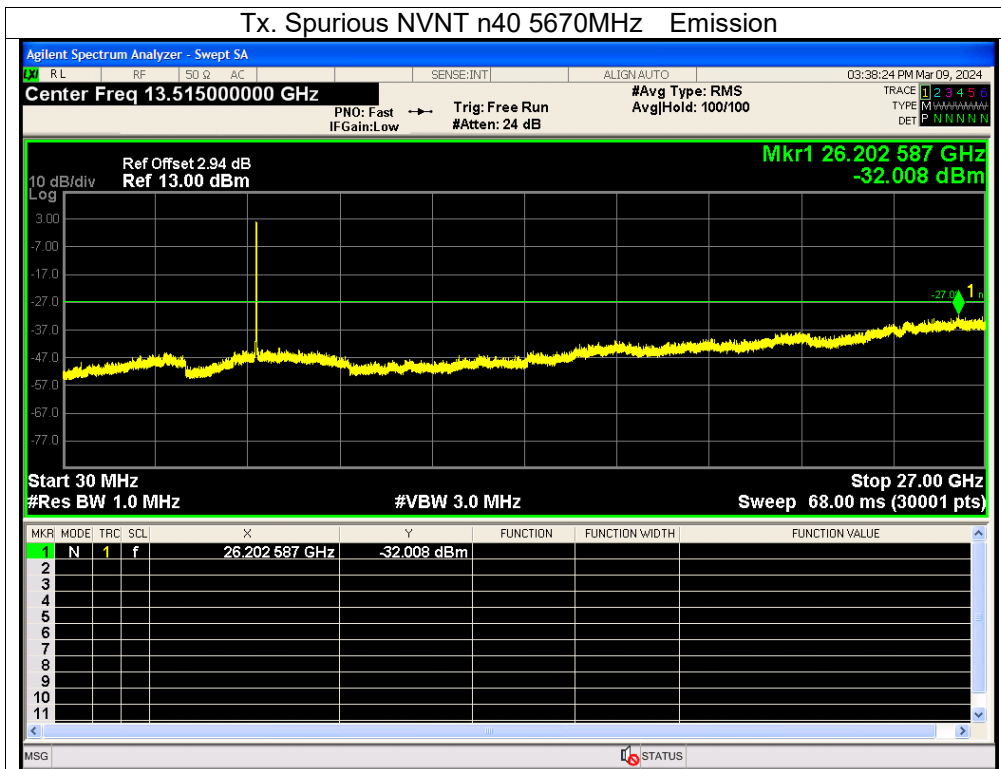
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A.
 Antenna A: 5500-5700MHz

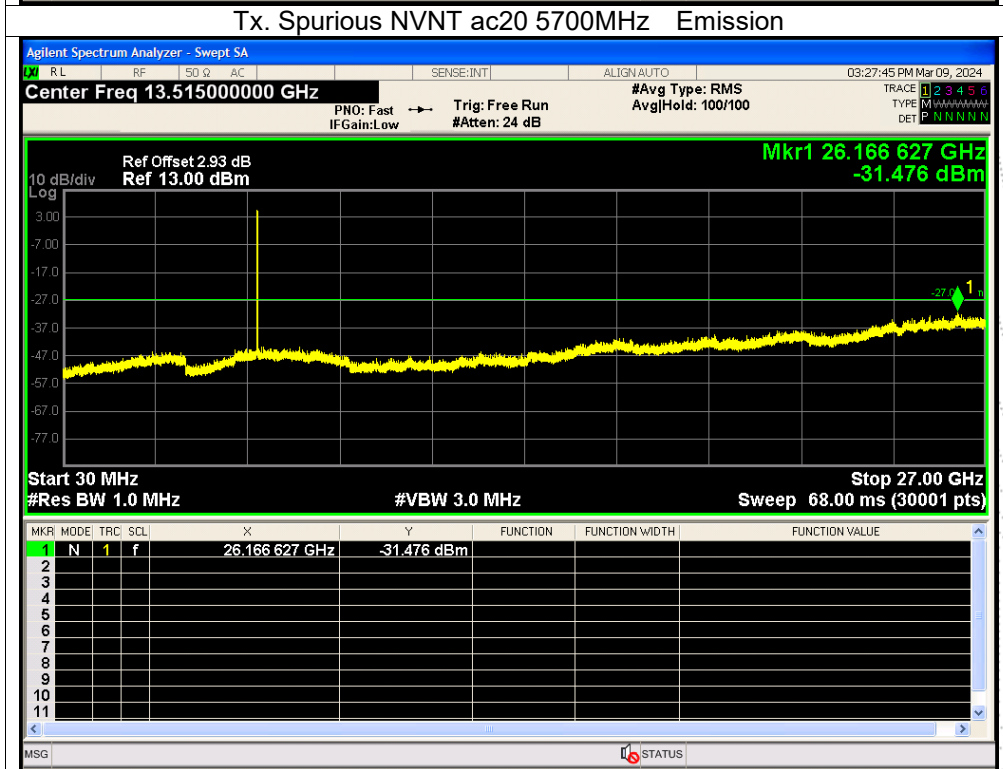
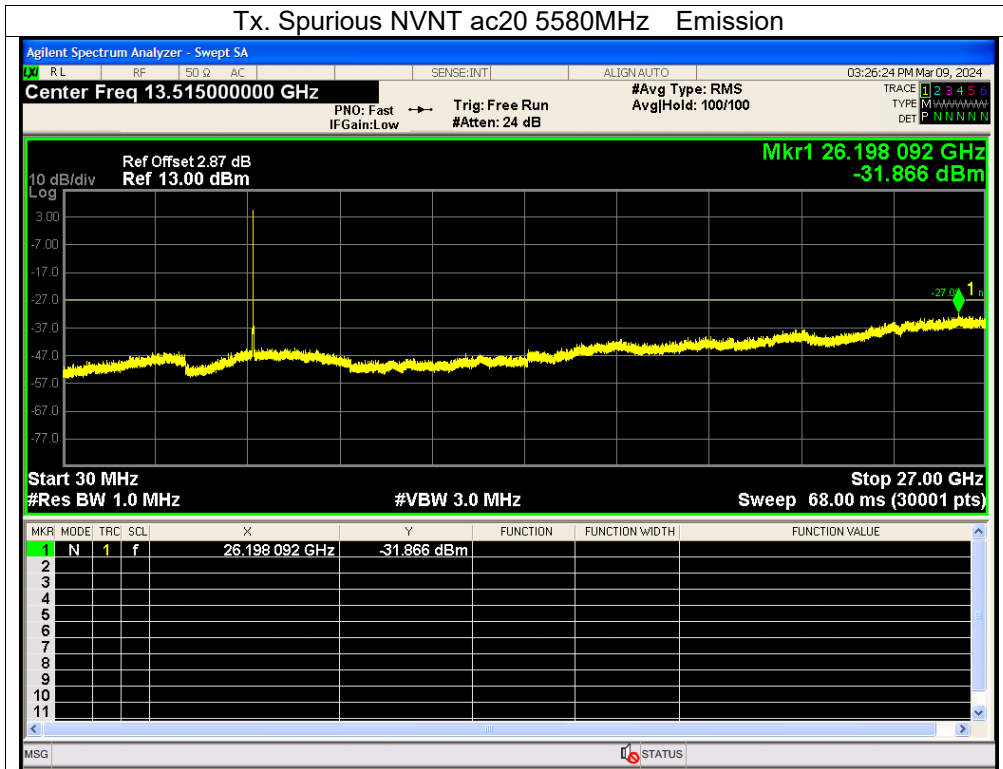


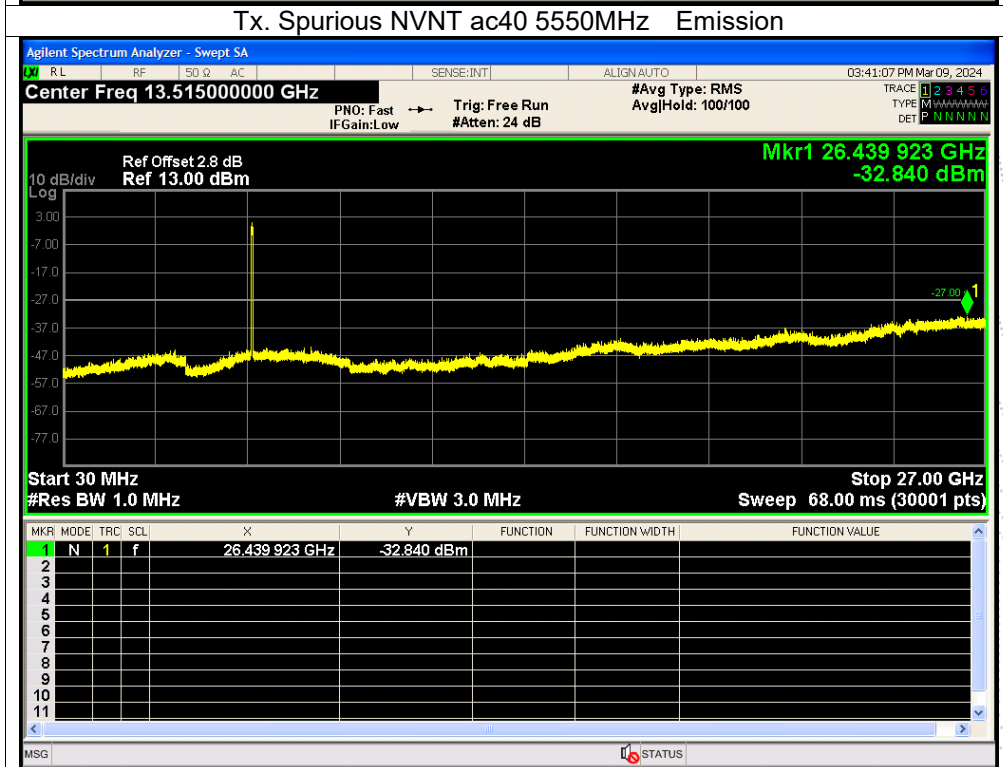
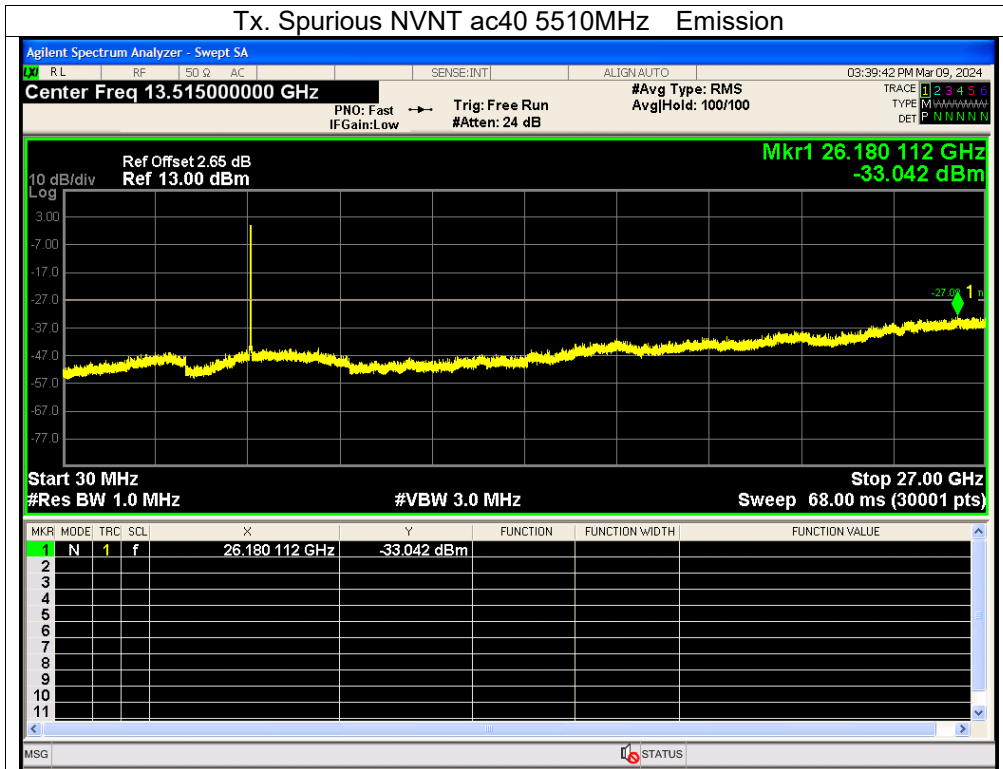


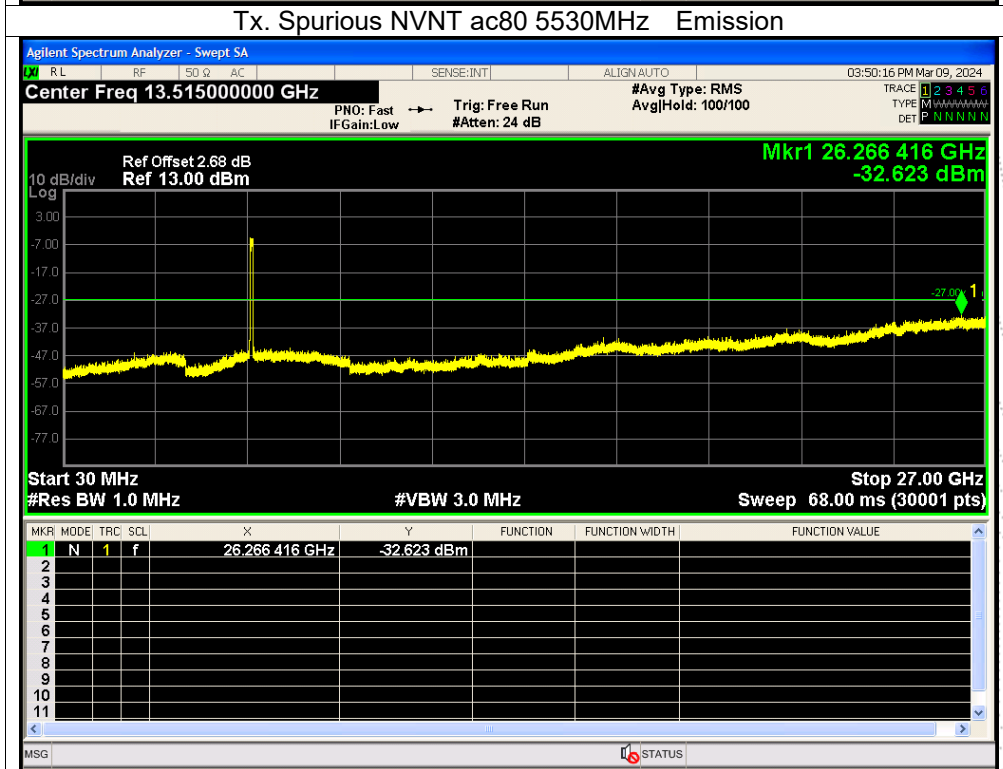
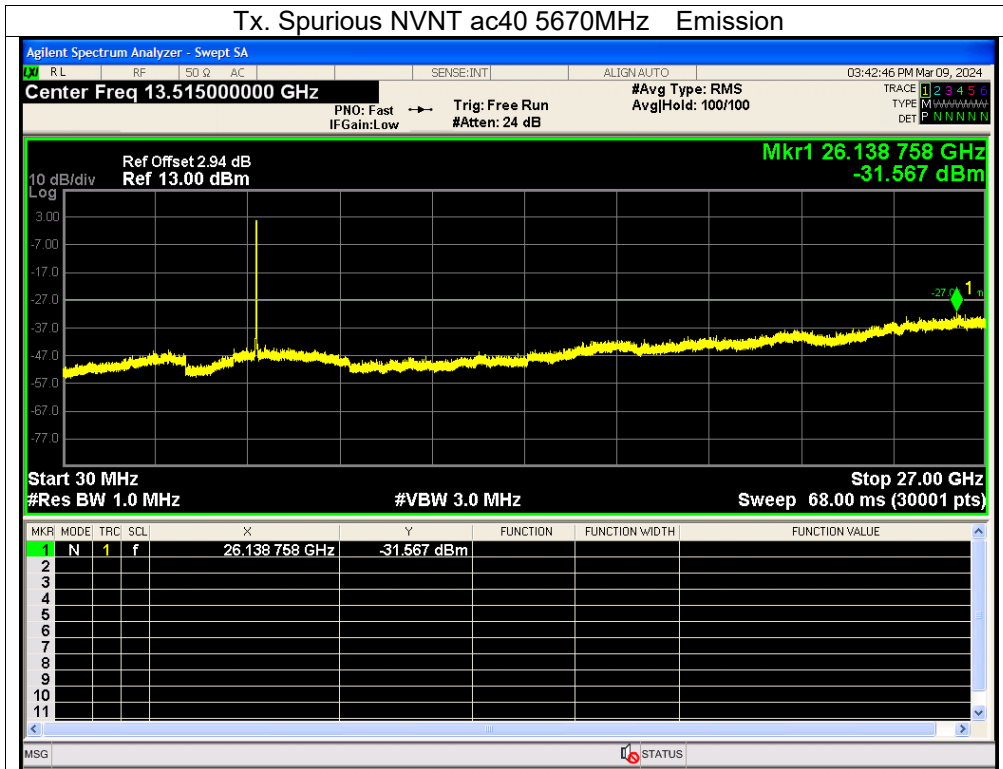


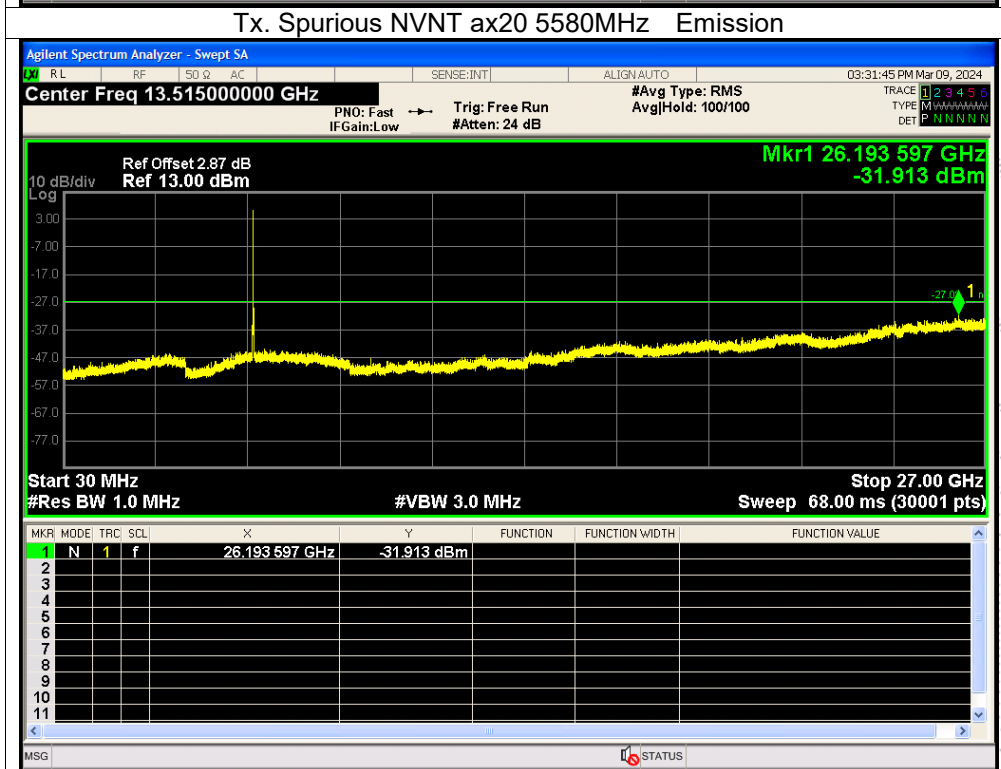
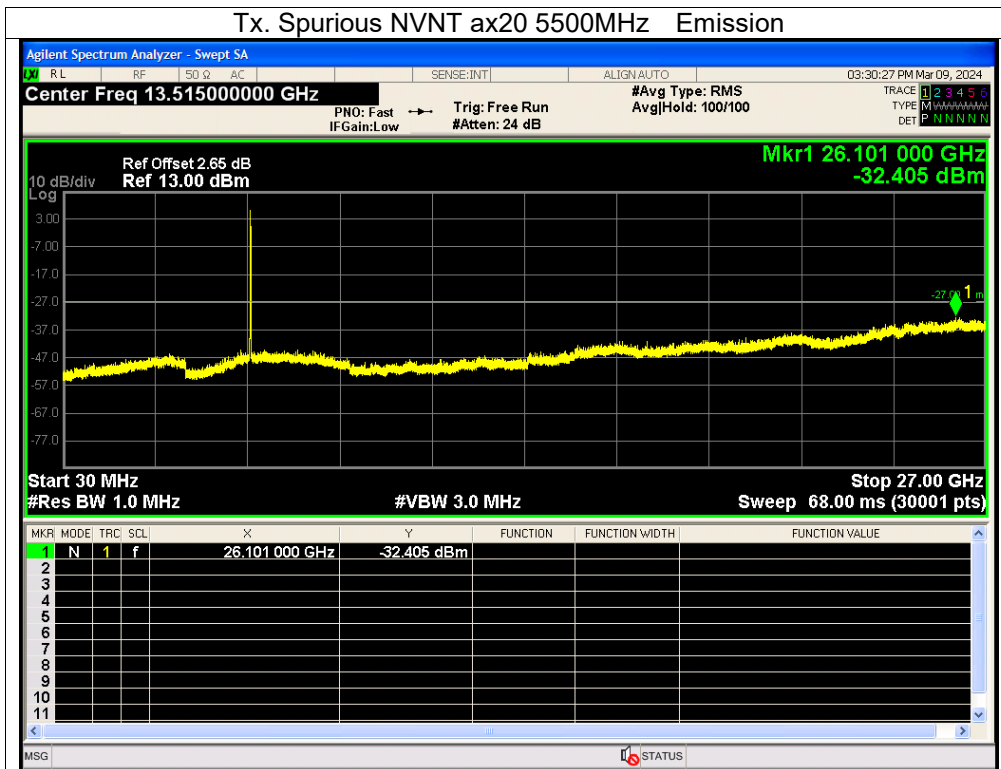


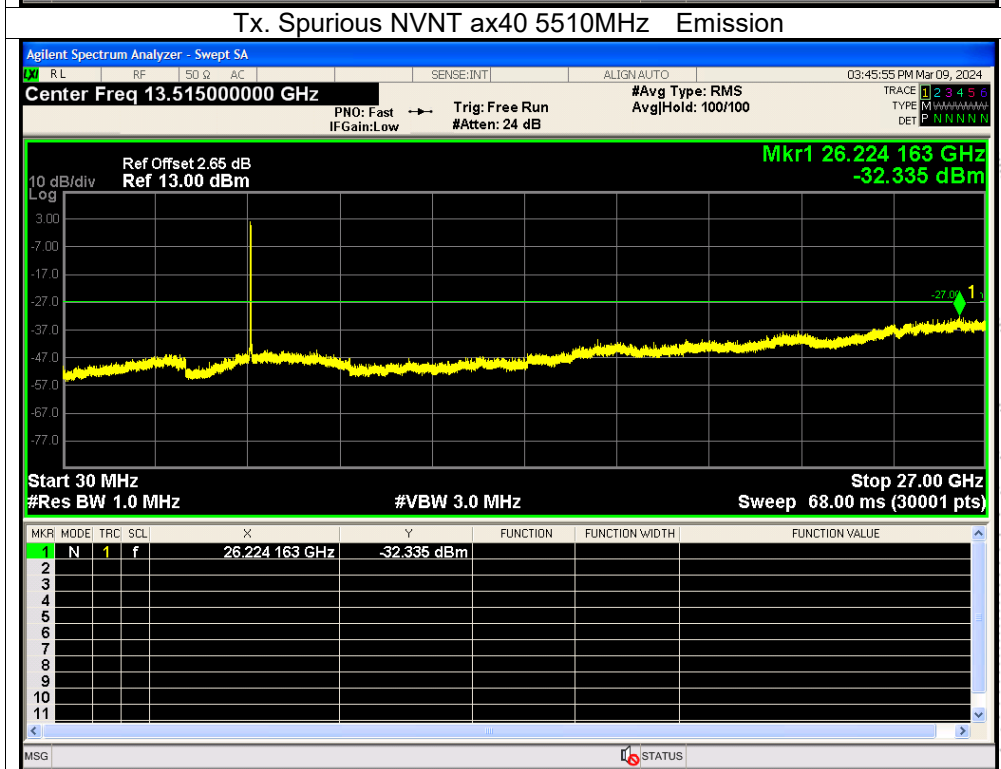
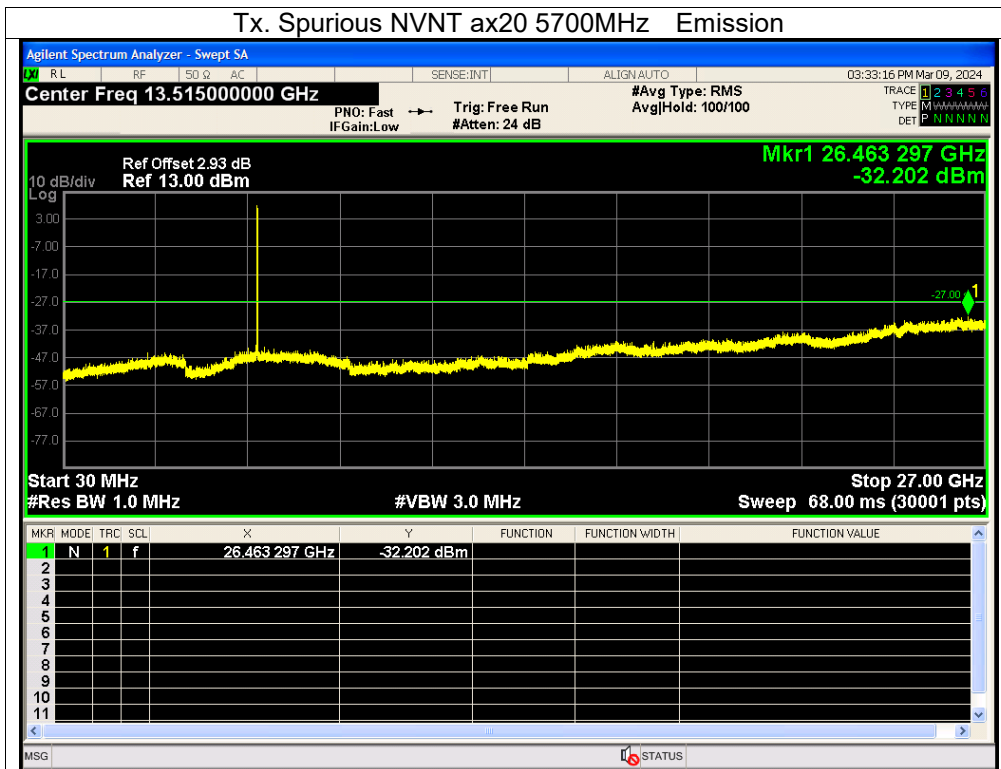


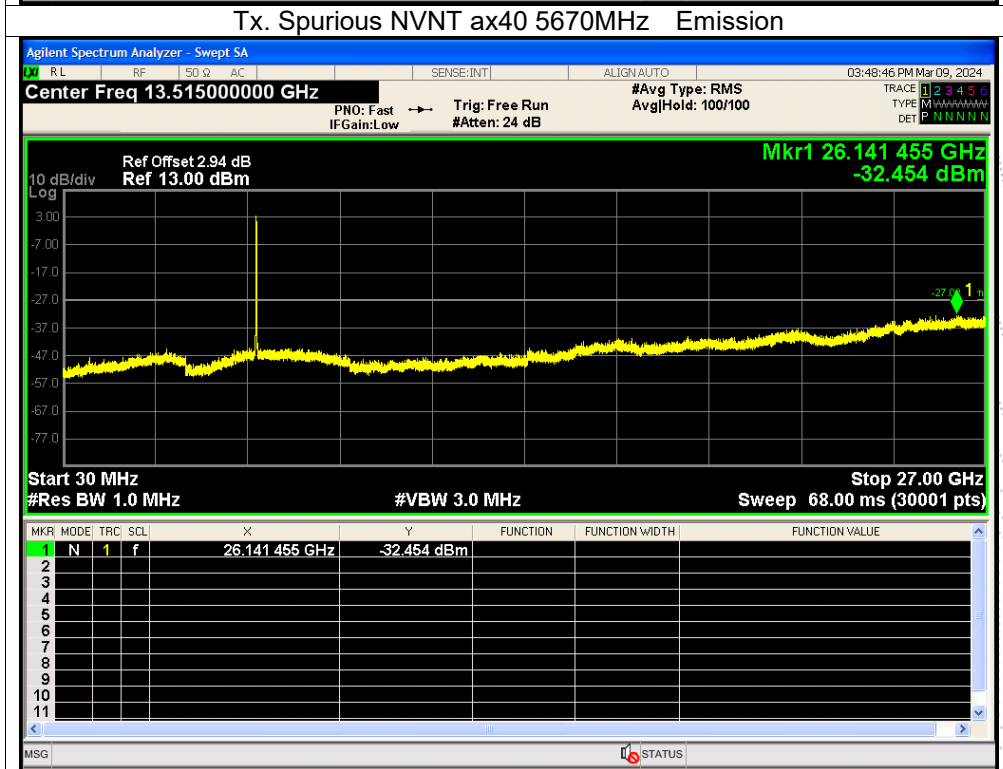
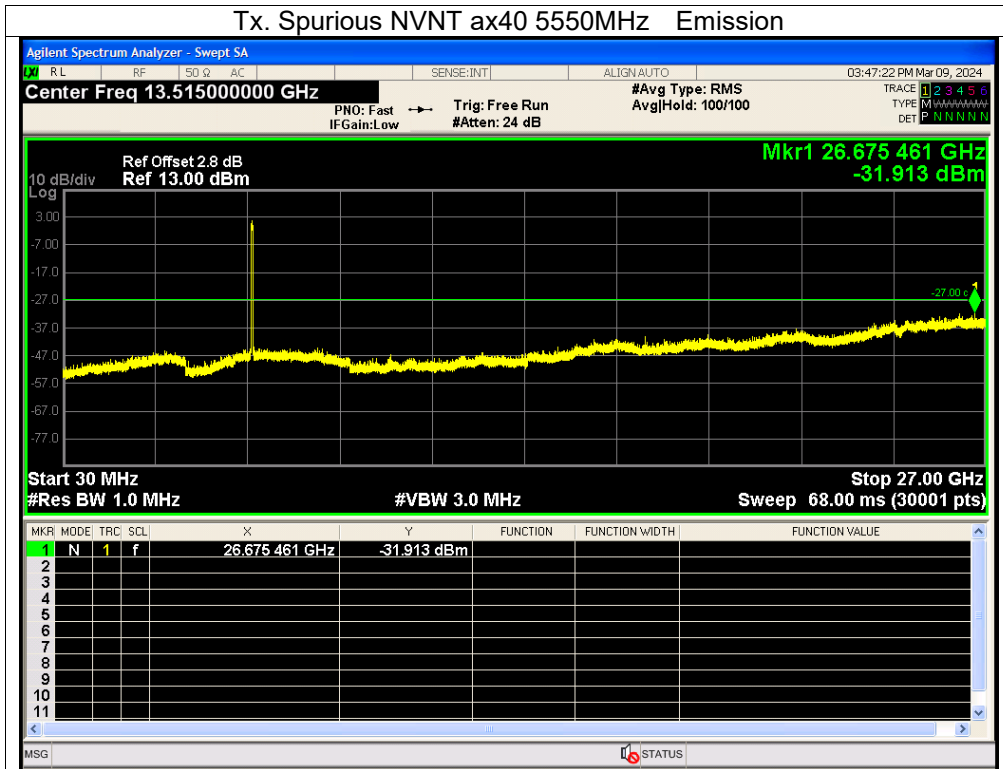


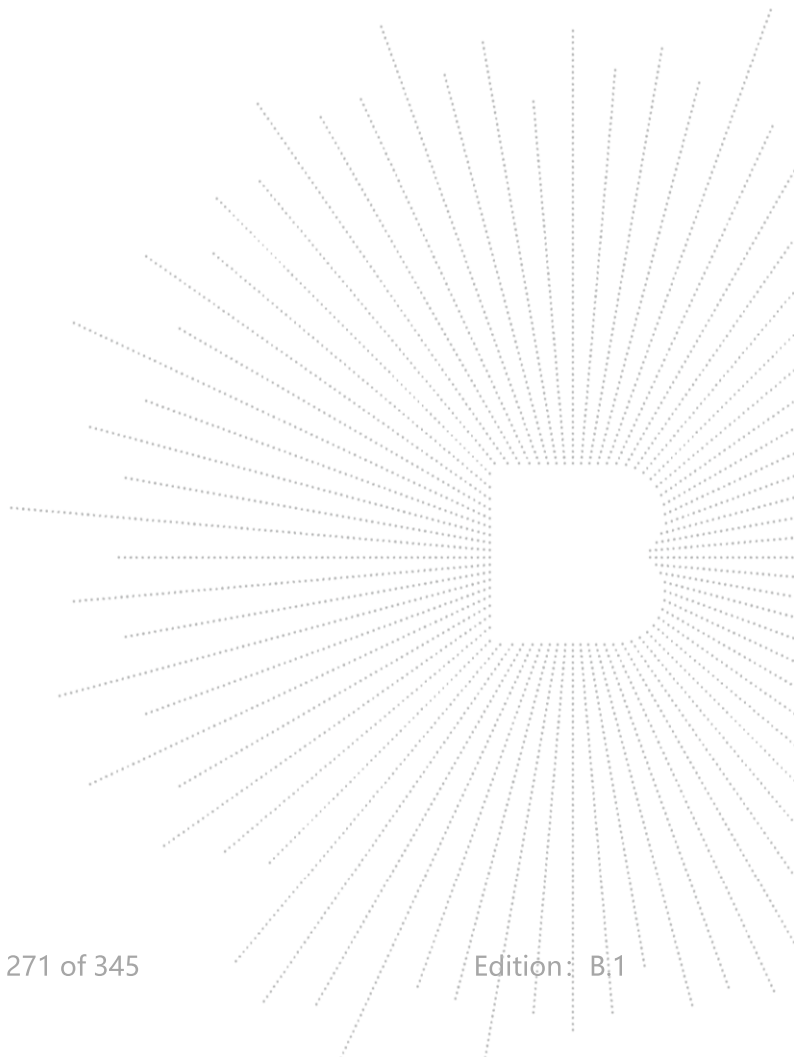
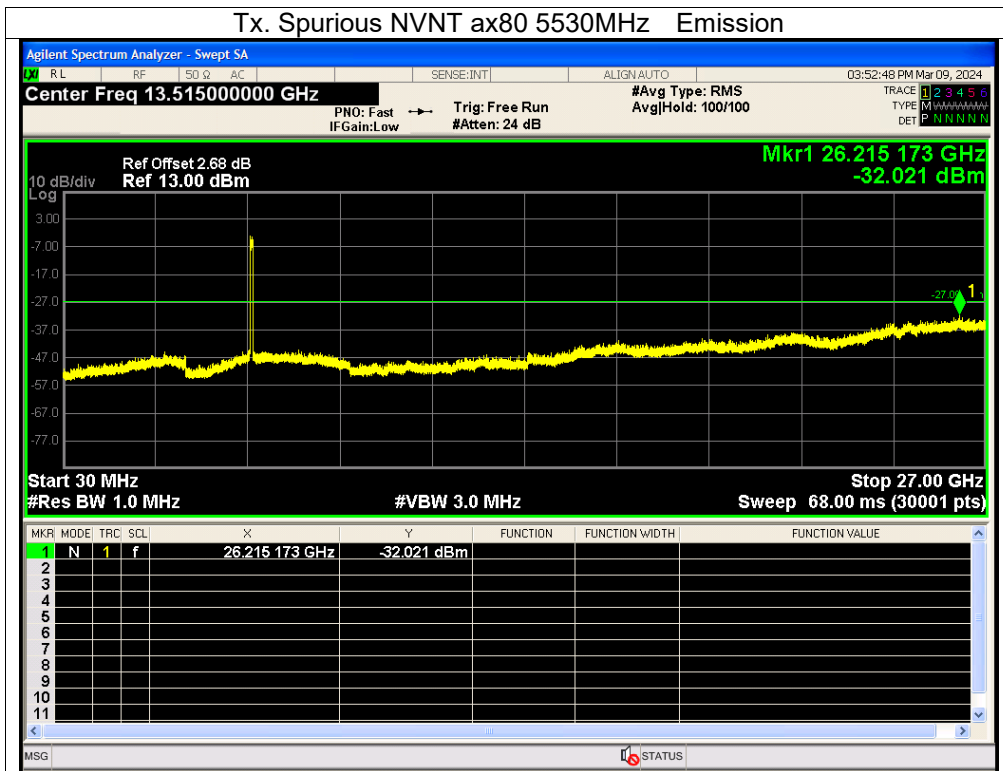




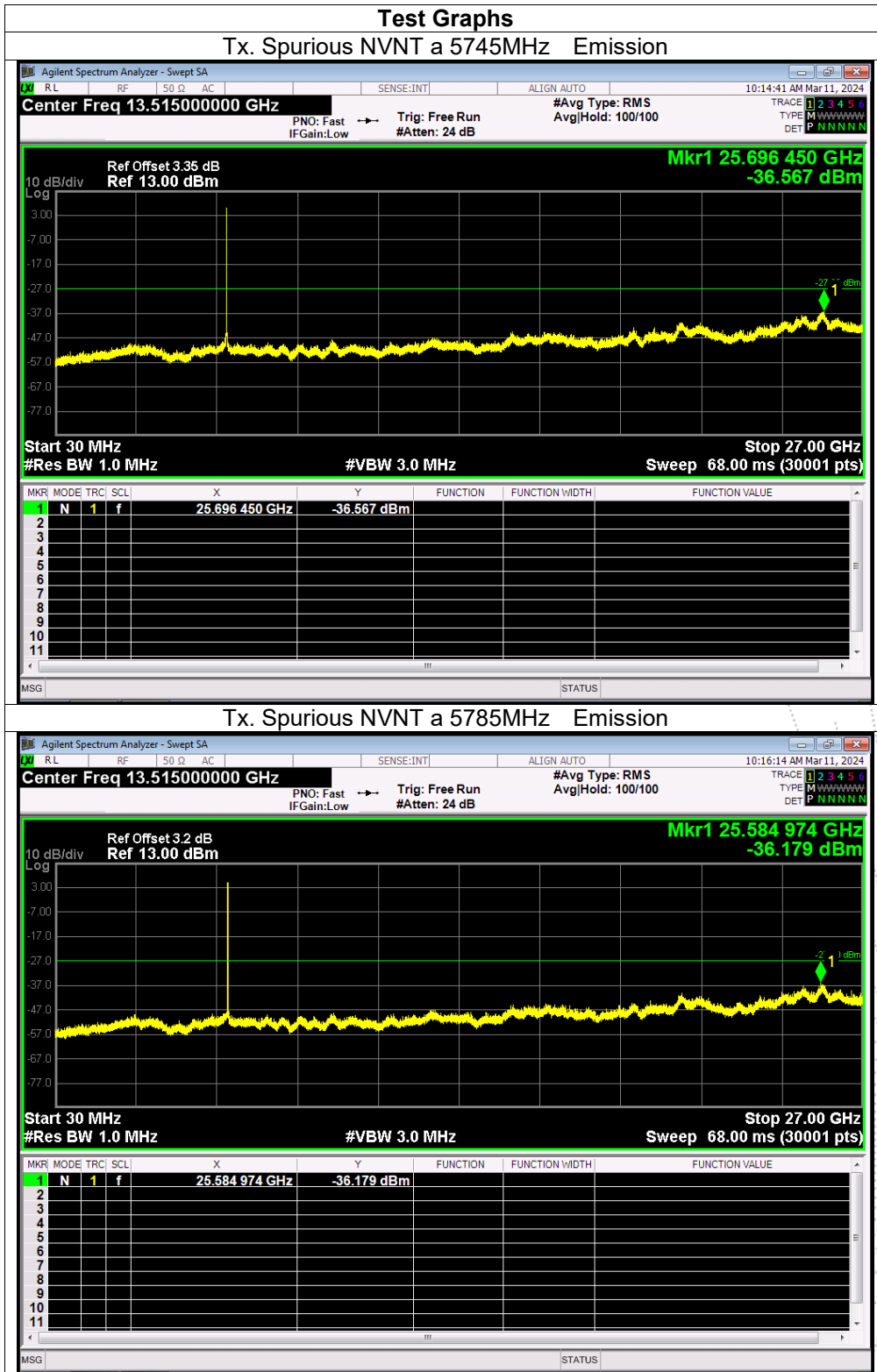


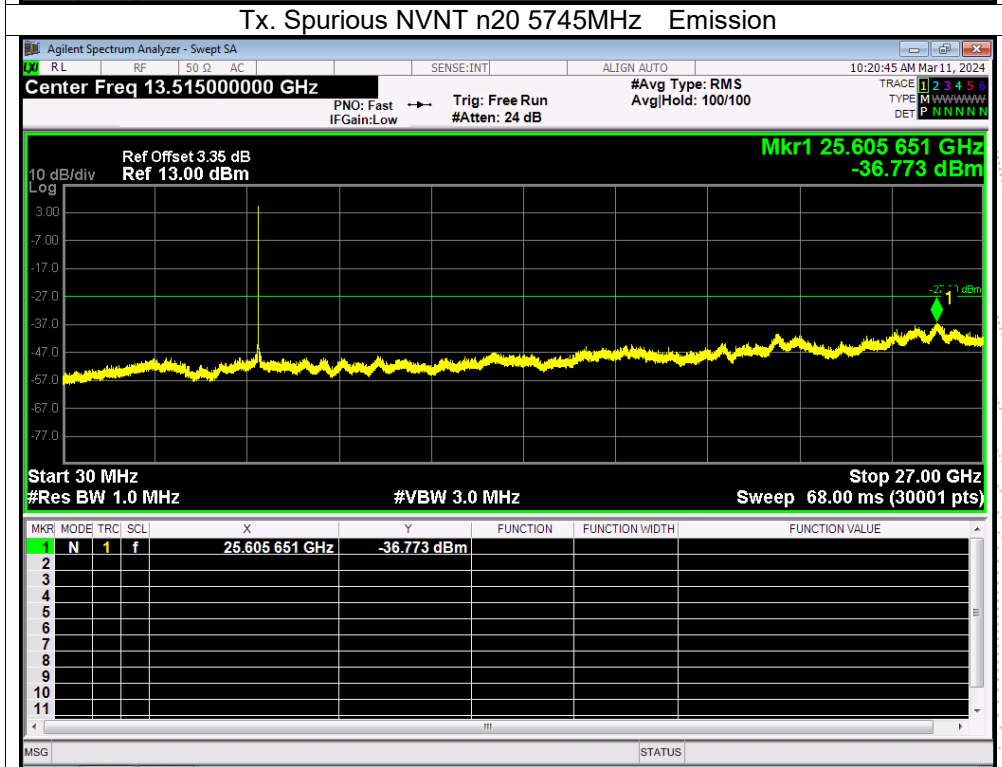
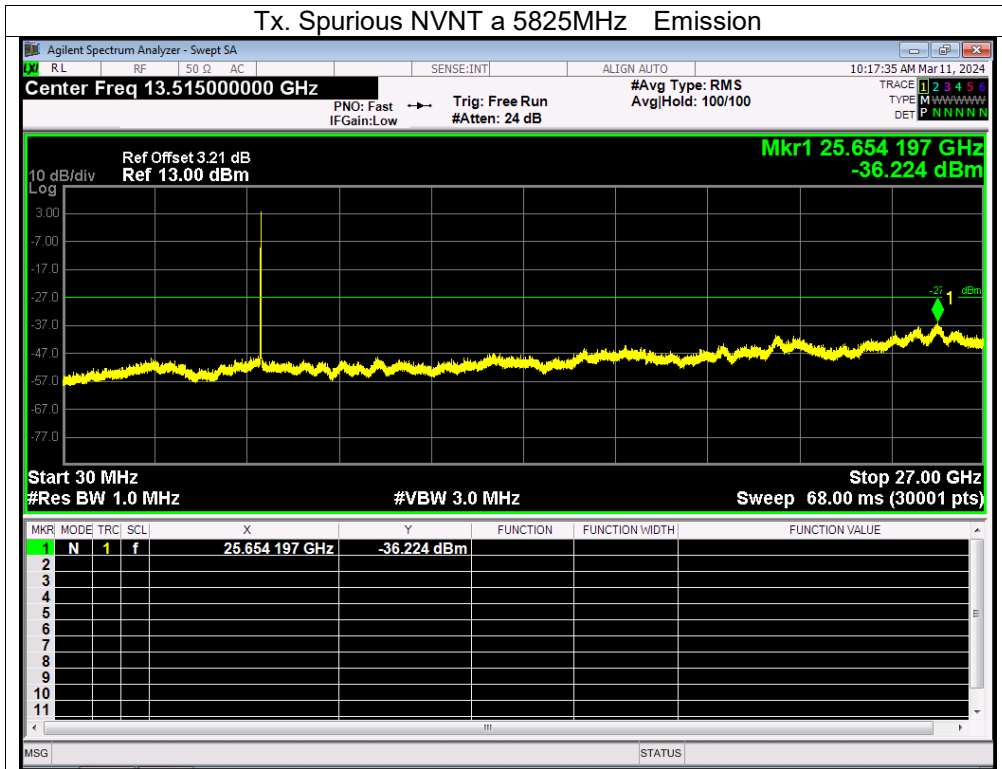


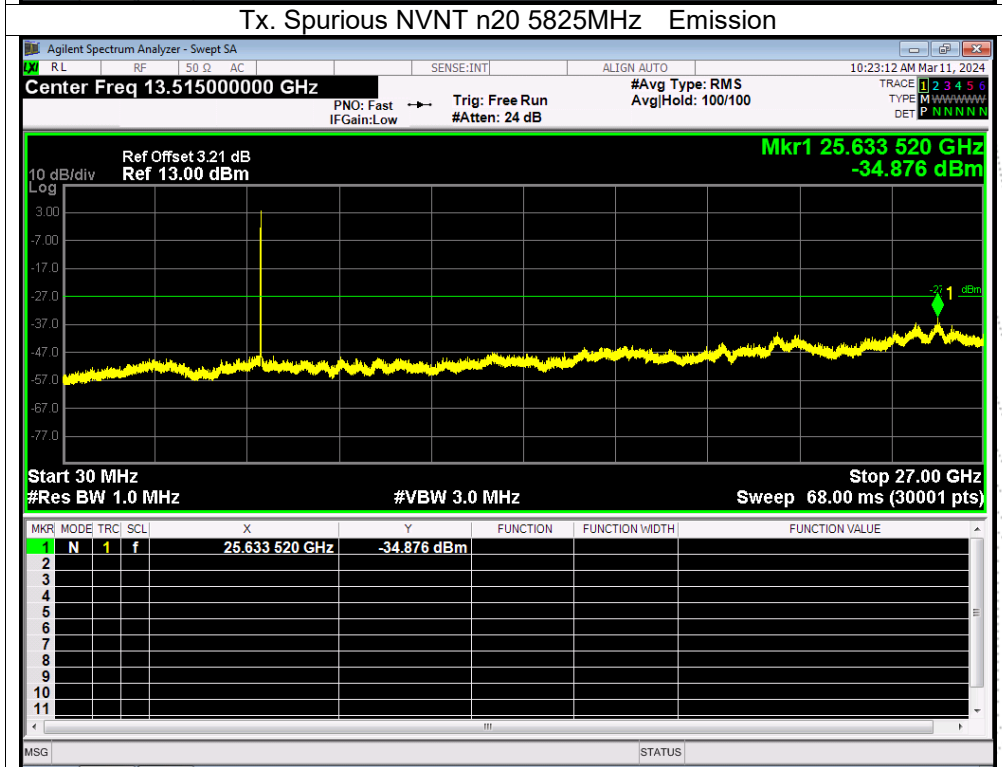
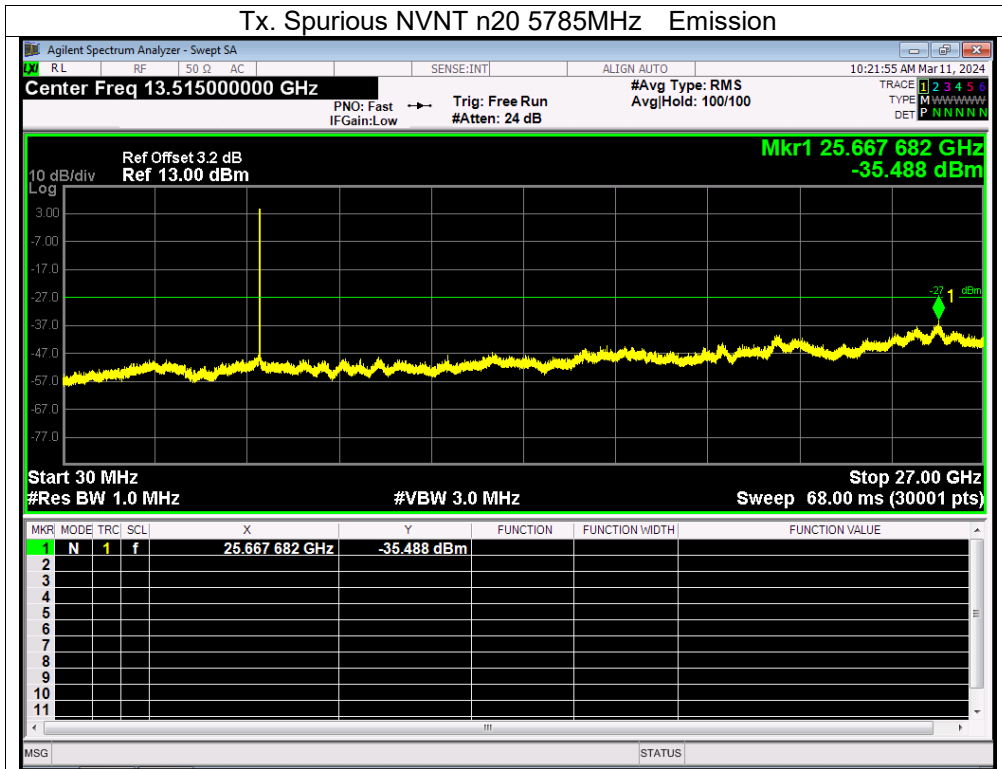


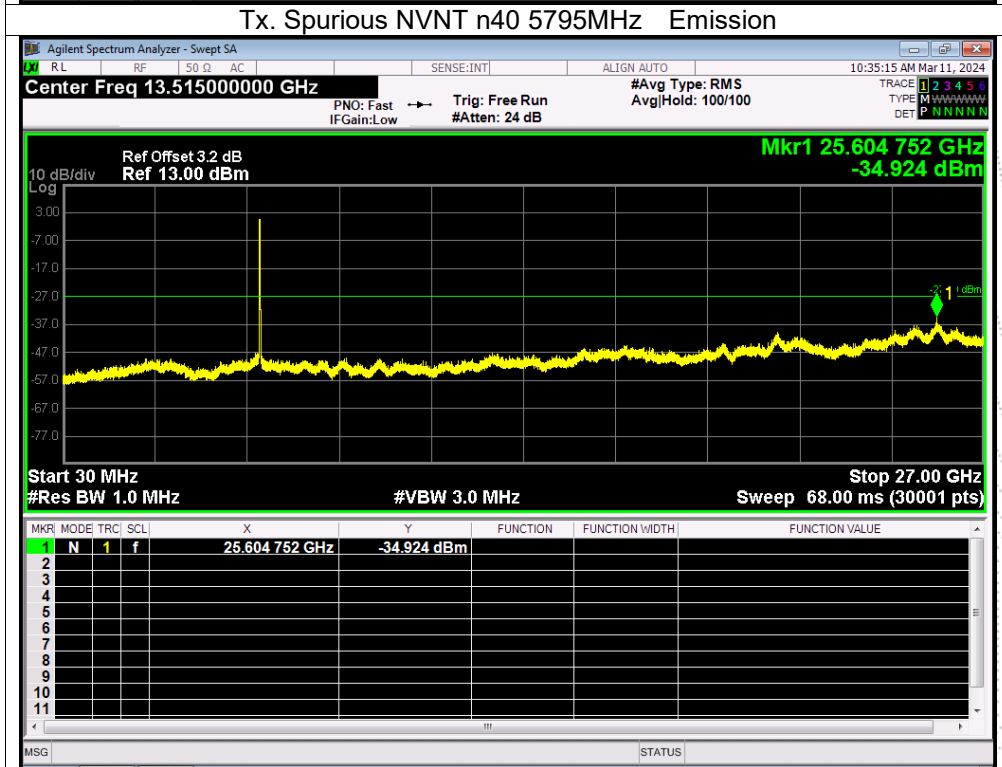
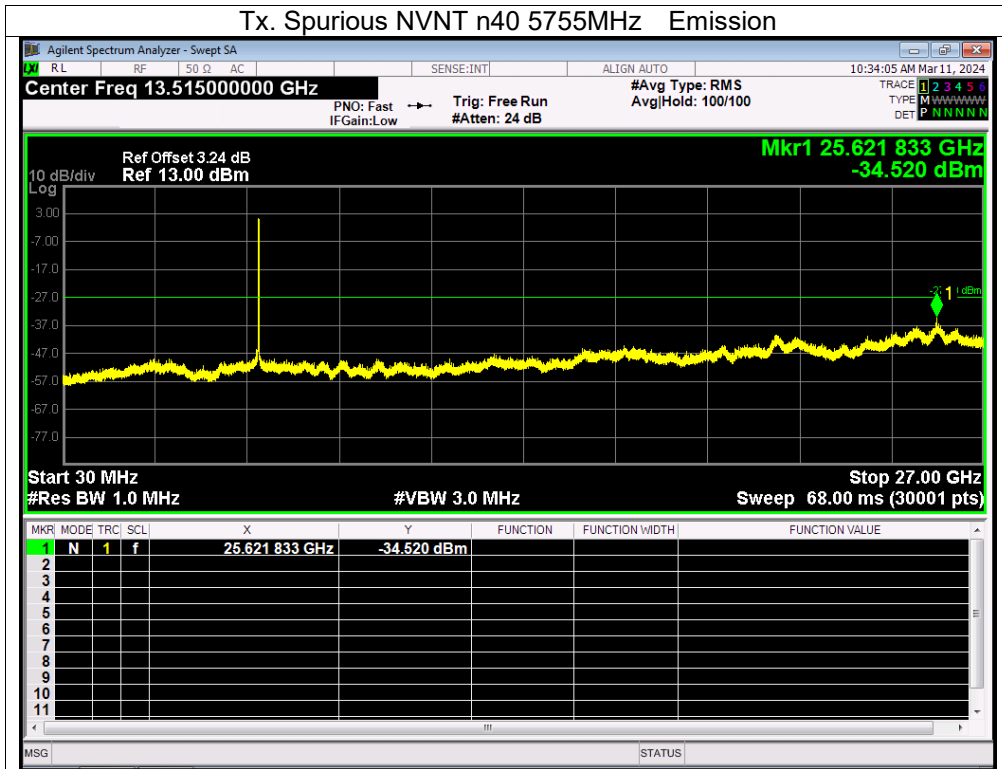


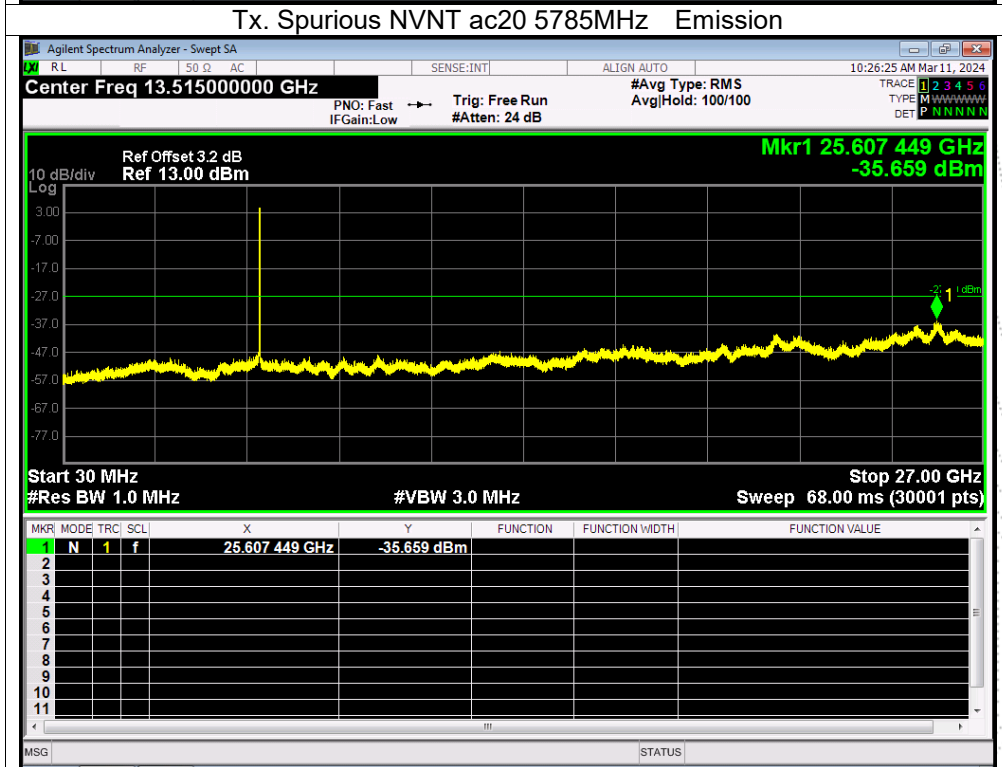
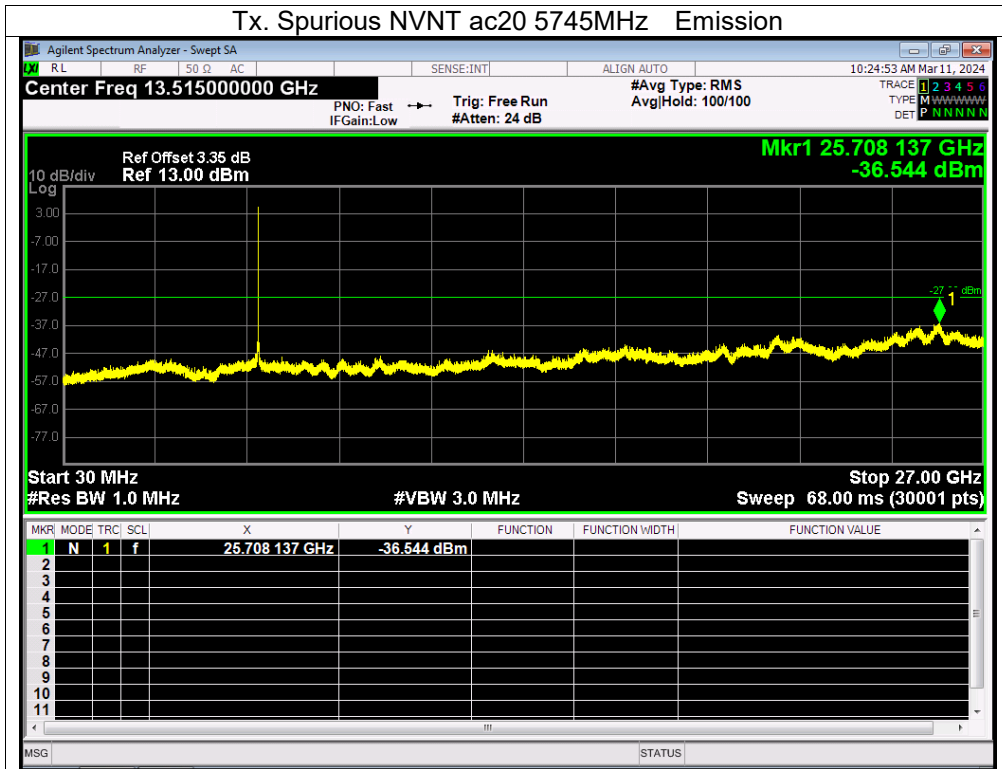
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A Plot. Antenna A: 5745-5825 MHz

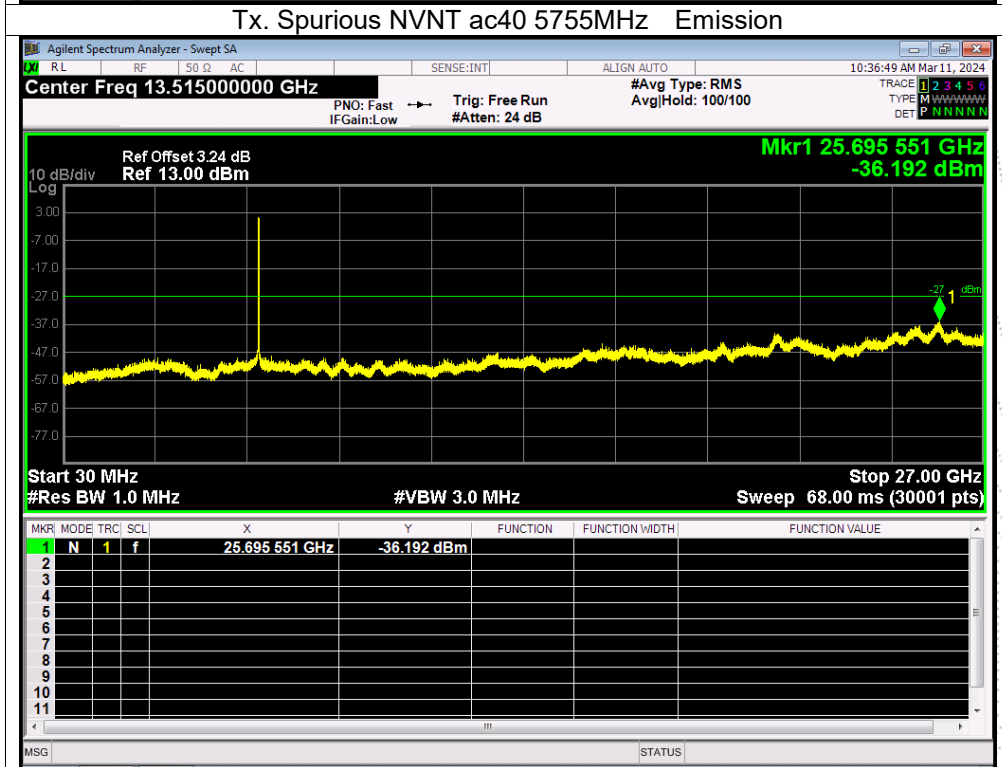
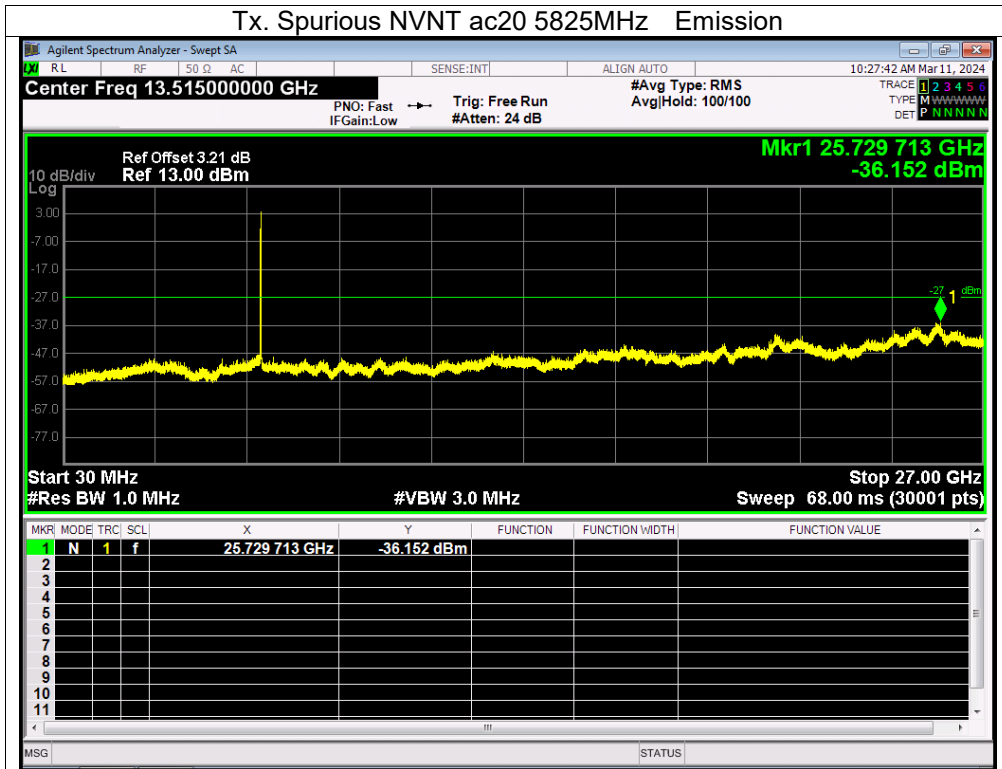


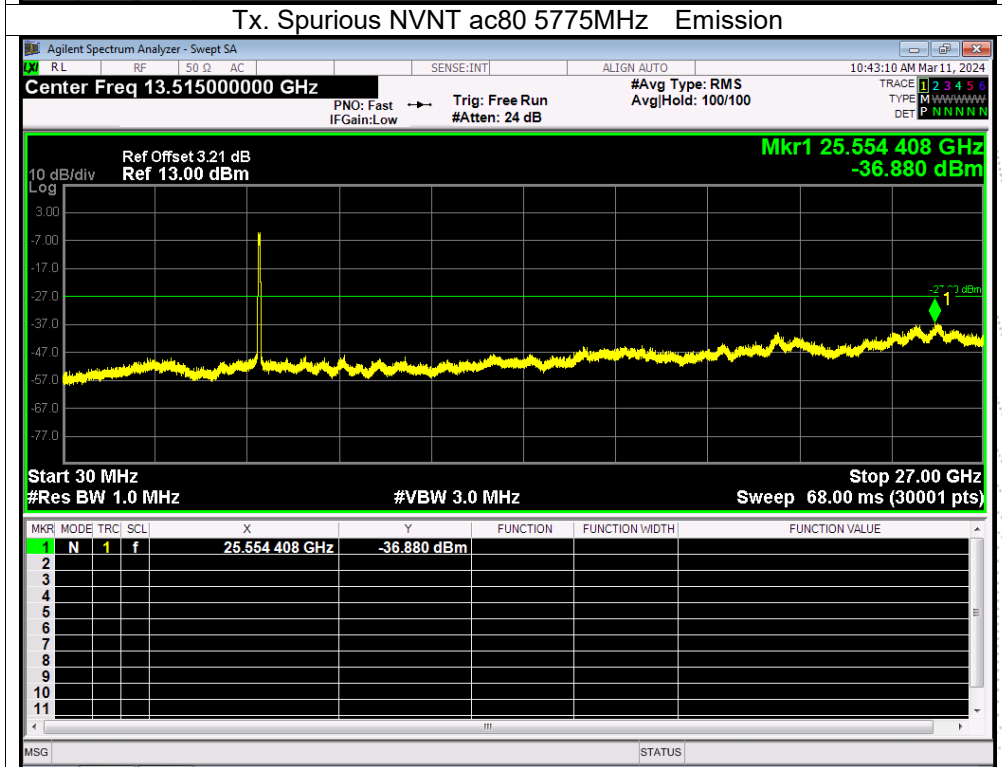
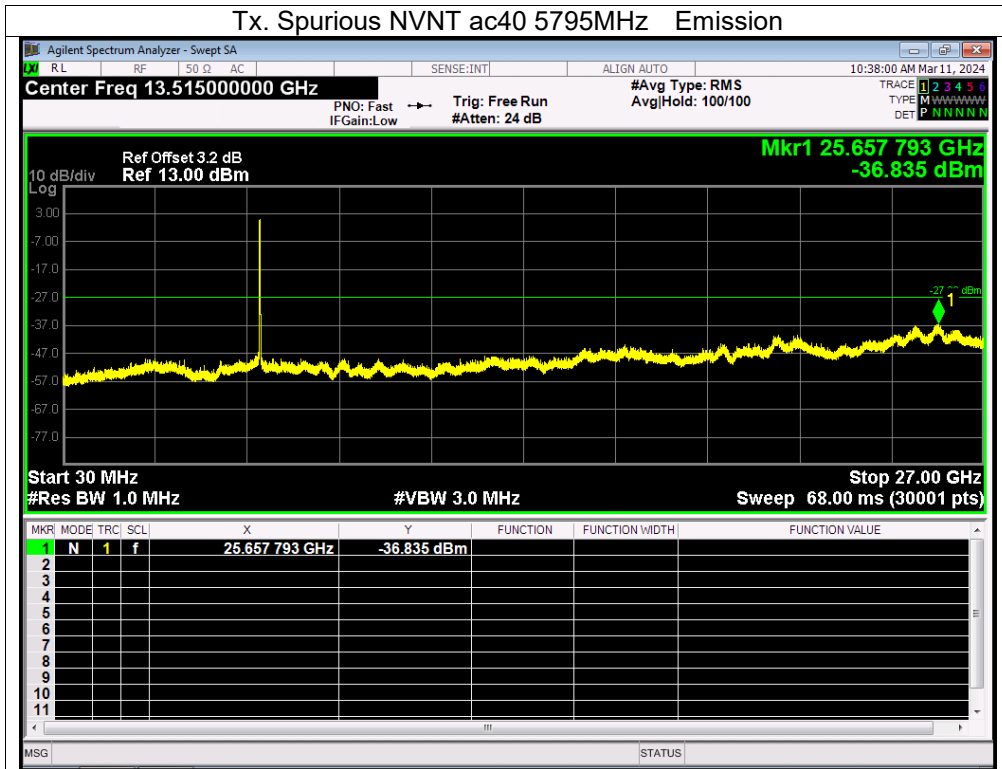


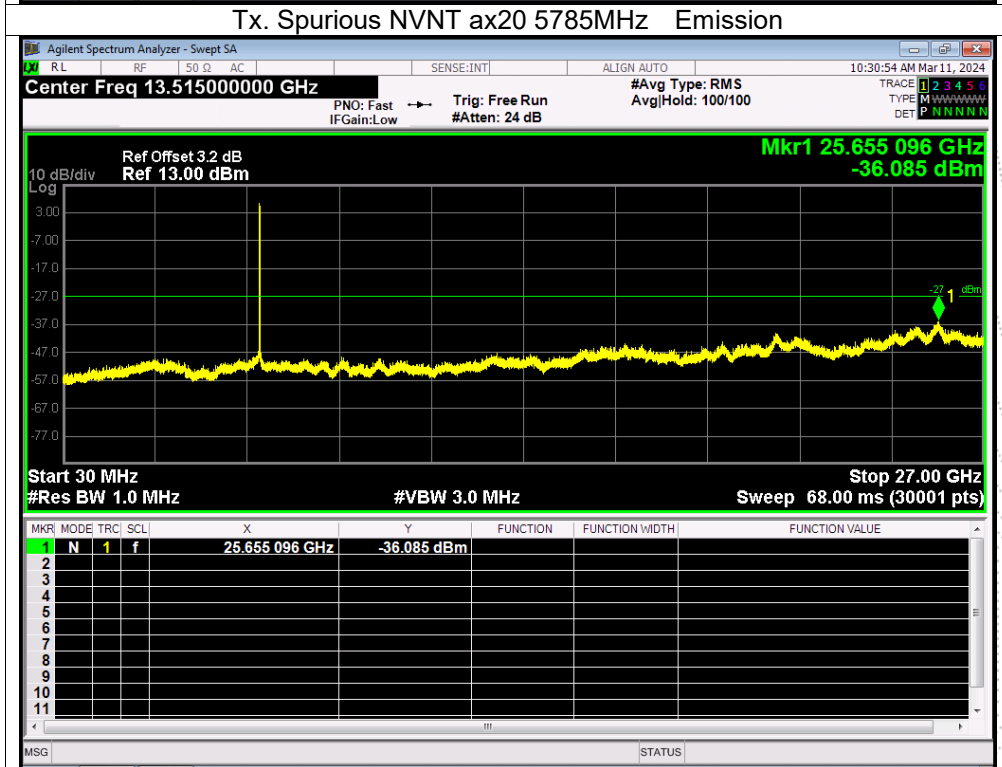
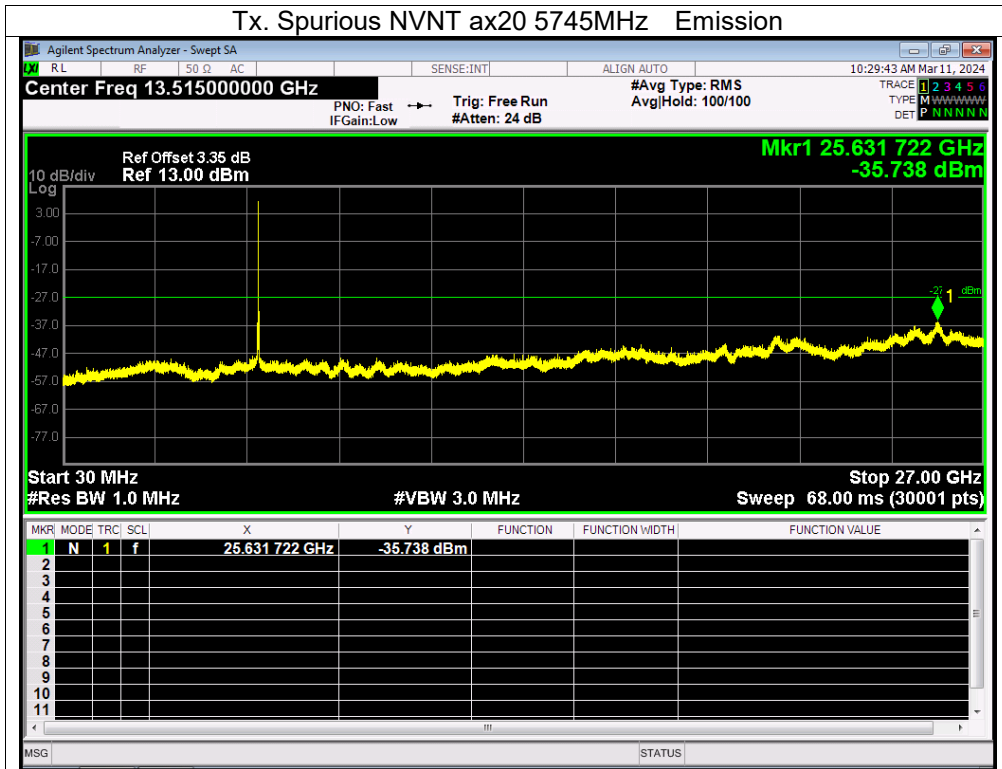


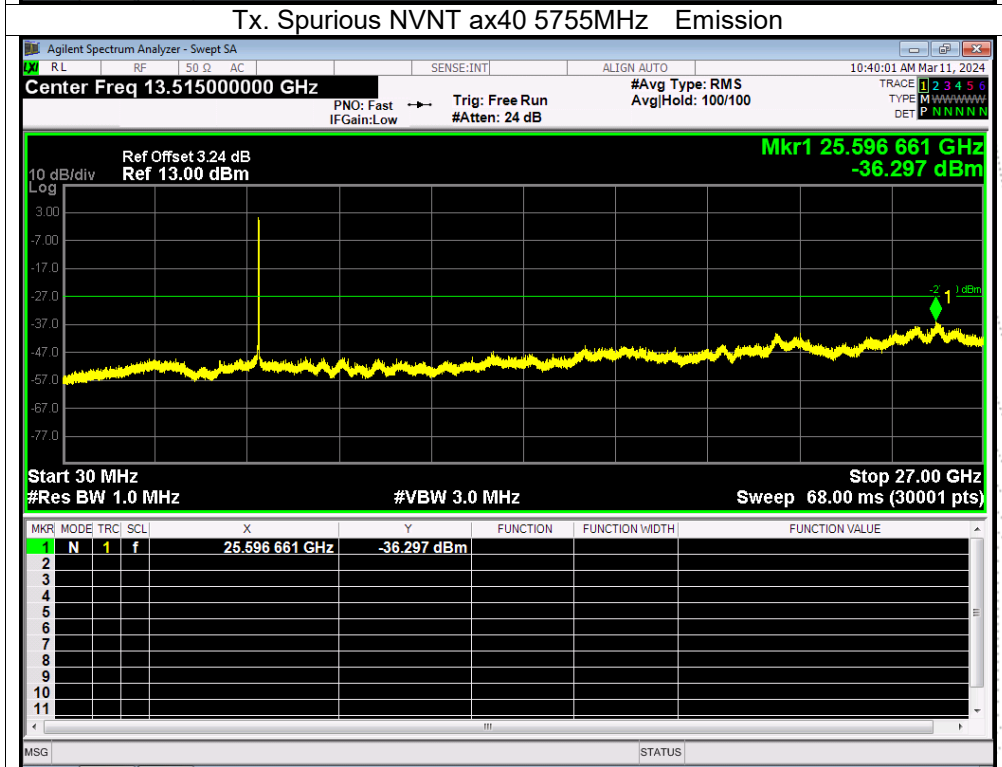
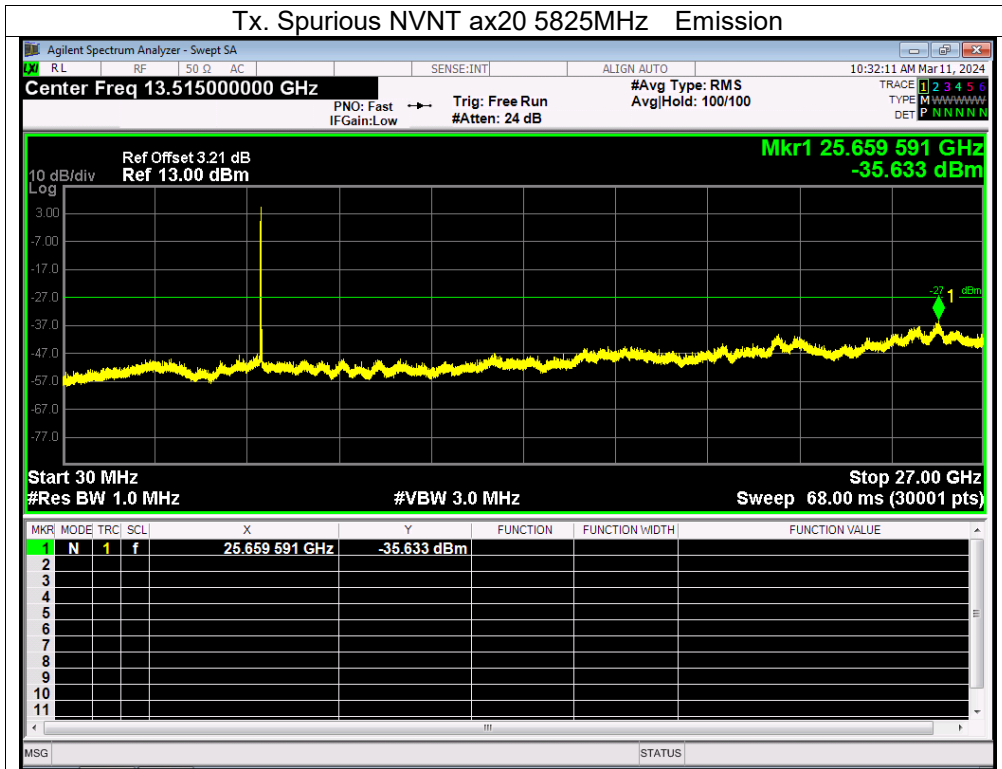


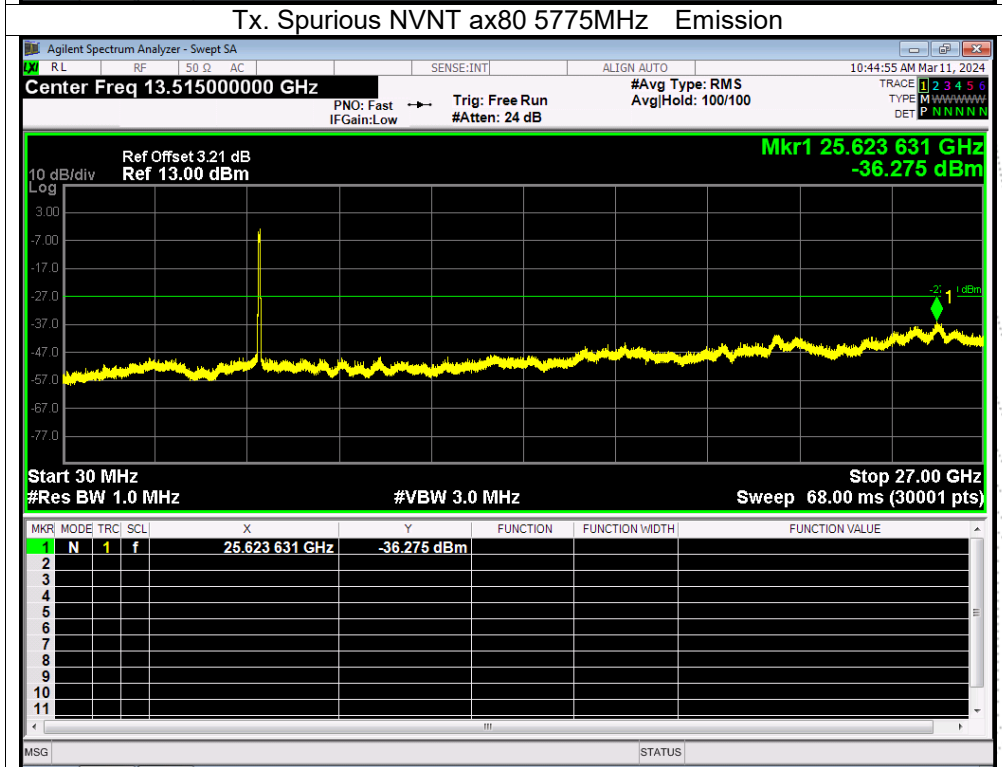
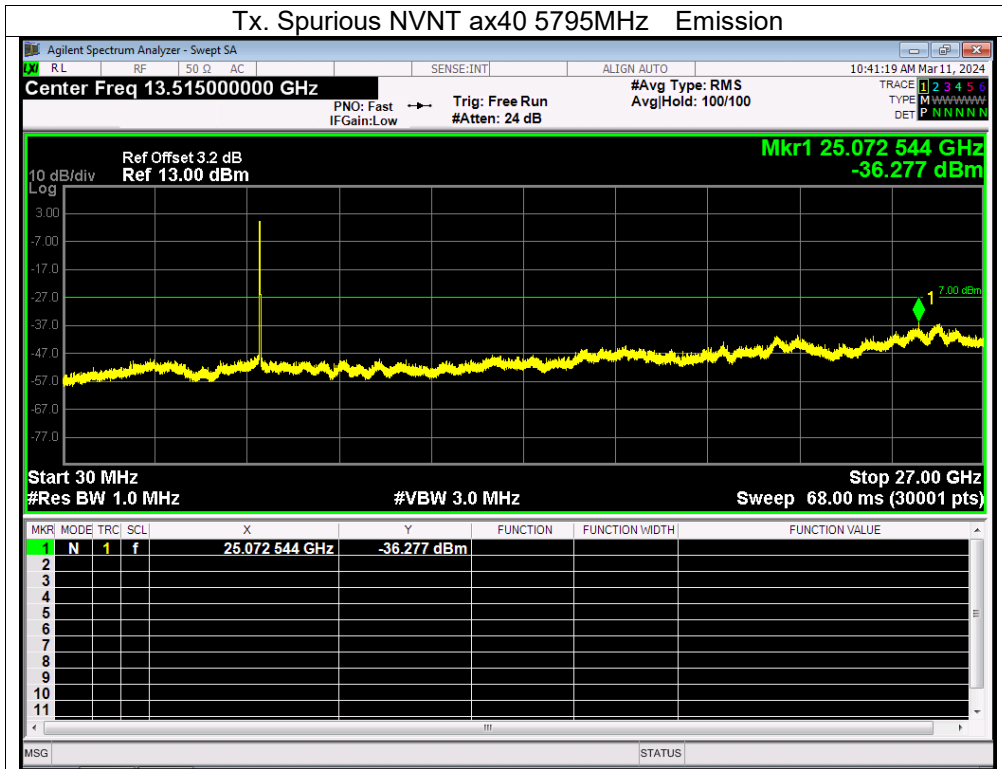






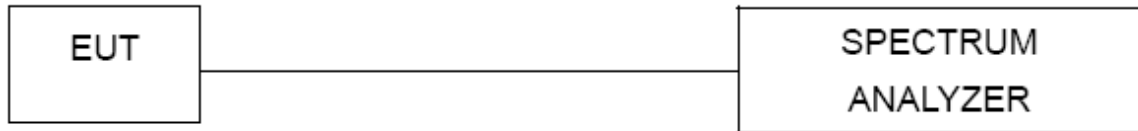






13. Frequency Stability Measurement

13.1 Block Diagram Of Test Setup



13.2 Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)..

13.3 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm and he limit is less than ± 20 ppm (IEEE 802.11n specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

13.4 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.1G) Mode Frequency U-NII-1 (5180-5240MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5180.0100	5180	0.0100	1.9305
		V max (V)	138.00	5180.0055	5180	0.0055	1.0618
		V min (V)	102.00	5180.0014	5180	0.0014	0.2703
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

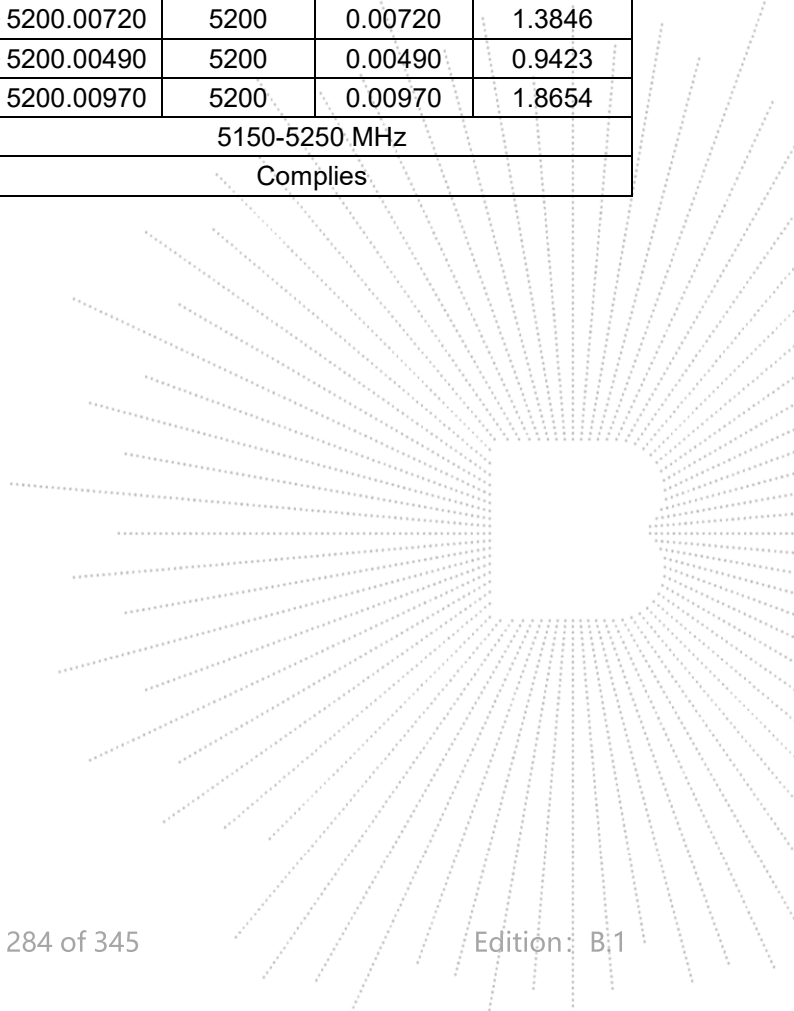
TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5180.0020	5180	0.0020	0.3861
		T (°C)	-10	5180.0055	5180	0.0055	1.0618
		T (°C)	0	5180.0047	5180	0.0047	0.9073
		T (°C)	10	5180.0100	5180	0.0100	1.9305
		T (°C)	20	5180.0003	5180	0.0003	0.0579
		T (°C)	30	5180.0134	5180	0.0134	2.5869
		T (°C)	40	5180.0101	5180	0.0101	1.9498
		T (°C)	50	5180.0128	5180	0.0128	2.4710
		T (°C)	60	5180.0003	5180	0.0003	0.0579
		T (°C)	70	5180.0130	5180	0.0130	2.5097
Limits				5150-5250 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5200.0024	5200	0.0024	0.4615
		V max (V)	138.00	5200.0009	5200	0.0009	0.1731
		V min (V)	102.00	5200.0040	5200	0.0040	0.7692
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5200.00370	5200	0.00370	0.7115
		T (°C)	-10	5200.00400	5200	0.00400	0.7692
		T (°C)	0	5200.01120	5200	0.01120	2.1538
		T (°C)	10	5200.00500	5200	0.00500	0.9615
		T (°C)	20	5200.00010	5200	0.00010	0.0192
		T (°C)	30	5200.01230	5200	0.01230	2.3654
		T (°C)	40	5200.00680	5200	0.00680	1.3077
		T (°C)	50	5200.00720	5200	0.00720	1.3846
		T (°C)	60	5200.00490	5200	0.00490	0.9423
		T (°C)	70	5200.00970	5200	0.00970	1.8654
Limits				5150-5250 MHz			
Result				Complies			

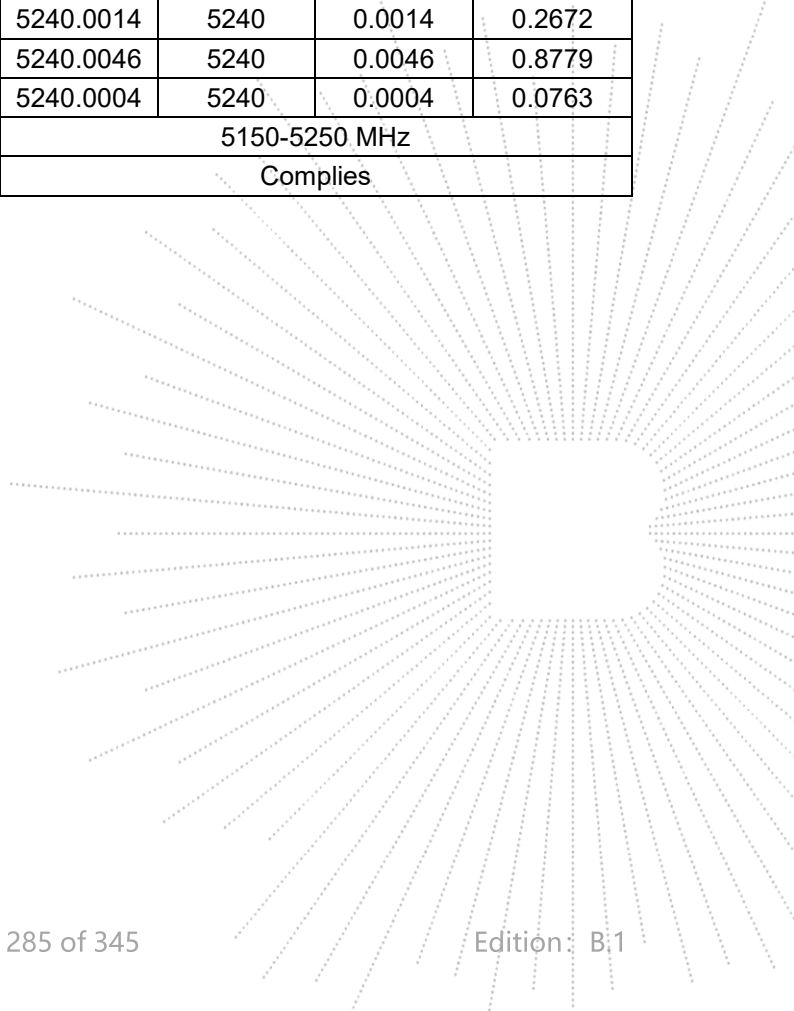


Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5240.0101	5240	0.0101	1.9275
		V max (V)	138.00	5240.0027	5240	0.0027	0.5153
		V min (V)	102.00	5240.0135	5240	0.0135	2.5763
Limits				5150-5250 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5240.0057	5240	0.0057	1.0878
		T (°C)	-10	5240.0061	5240	0.0061	1.1641
		T (°C)	0	5240.0051	5240	0.0051	0.9733
		T (°C)	10	5240.0100	5240	0.0100	1.9084
		T (°C)	20	5240.0119	5240	0.0119	2.2710
		T (°C)	30	5240.0089	5240	0.0089	1.6985
		T (°C)	40	5240.0015	5240	0.0015	0.2863
		T (°C)	50	5240.0014	5240	0.0014	0.2672
		T (°C)	60	5240.0046	5240	0.0046	0.8779
		T (°C)	70	5240.0004	5240	0.0004	0.0763
Limits				5150-5250 MHz			
Result				Complies			



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.3G) Mode Frequency U-NII-2A (5260-5320MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5260.0130	5260	0.0130	2.4715
		V max (V)	138.00	5260.0132	5260	0.0132	2.5095
		V min (V)	102.00	5260.0113	5260	0.0113	2.1483
Limits				5260-5320 MHz			
Result				Complies			

Temperature vs. Frequency Stability

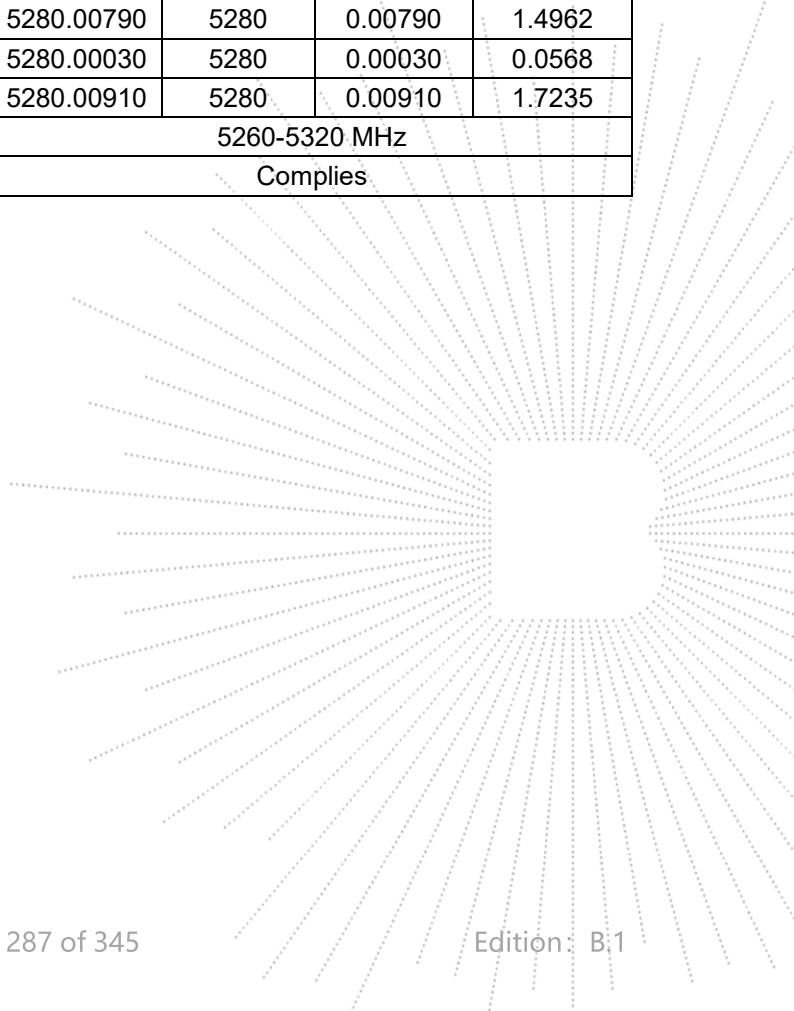
TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5260.0028	5260	0.0028	0.5323
		T (°C)	-10	5260.0036	5260	0.0036	0.6844
		T (°C)	0	5260.0056	5260	0.0056	1.0646
		T (°C)	10	5260.0056	5260	0.0056	1.0646
		T (°C)	20	5260.0121	5260	0.0121	2.3004
		T (°C)	30	5260.0092	5260	0.0092	1.7490
		T (°C)	40	5260.0096	5260	0.0096	1.8251
		T (°C)	50	5260.0094	5260	0.0094	1.7871
		T (°C)	60	5260.0071	5260	0.0071	1.3498
		T (°C)	70	5260.0131	5260	0.0131	2.4905
Limits				5260-5320 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5280.0132	5280	0.0132	2.5000
		V max (V)	138.00	5280.0006	5280	0.0006	0.1136
		V min (V)	102.00	5280.0075	5280	0.0075	1.4205
Limits				5260-5320 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5280.01280	5280	0.01280	2.4242
		T (°C)	-10	5280.01070	5280	0.01070	2.0265
		T (°C)	0	5280.00910	5280	0.00910	1.7235
		T (°C)	10	5280.00230	5280	0.00230	0.4356
		T (°C)	20	5280.00350	5280	0.00350	0.6629
		T (°C)	30	5280.00390	5280	0.00390	0.7386
		T (°C)	40	5280.01150	5280	0.01150	2.1780
		T (°C)	50	5280.00790	5280	0.00790	1.4962
		T (°C)	60	5280.00030	5280	0.00030	0.0568
		T (°C)	70	5280.00910	5280	0.00910	1.7235
Limits				5260-5320 MHz			
Result				Complies			

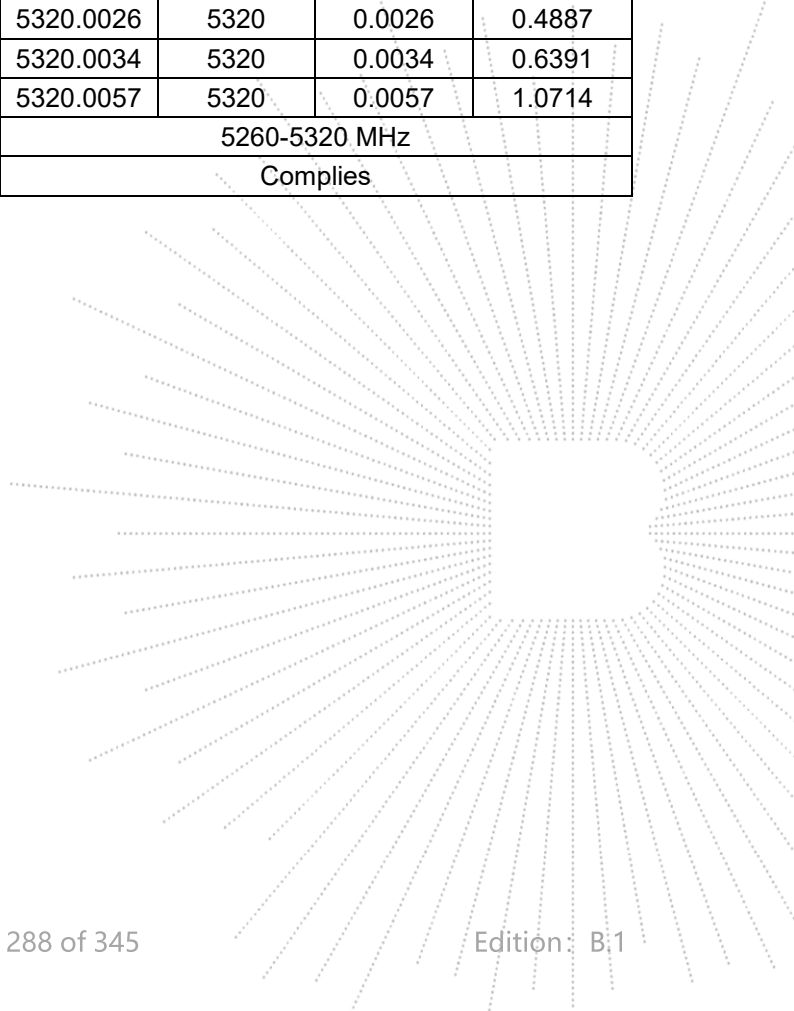


Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5320.0080	5320	0.0080	1.5038
		V max (V)	138.00	5320.0100	5320	0.0100	1.8797
		V min (V)	102.00	5320.0002	5320	0.0002	0.0376
Limits				5260-5320 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5320.0118	5320	0.0118	2.2180
		T (°C)	-10	5320.0050	5320	0.0050	0.9398
		T (°C)	0	5320.0054	5320	0.0054	1.0150
		T (°C)	10	5320.0078	5320	0.0078	1.4662
		T (°C)	20	5320.0007	5320	0.0007	0.1316
		T (°C)	30	5320.0128	5320	0.0128	2.4060
		T (°C)	40	5320.0122	5320	0.0122	2.2932
		T (°C)	50	5320.0026	5320	0.0026	0.4887
		T (°C)	60	5320.0034	5320	0.0034	0.6391
		T (°C)	70	5320.0057	5320	0.0057	1.0714
Limits				5260-5320 MHz			
Result				Complies			



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.6G) Mode Frequency U-NII-2C (5500-5700MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5500.0027	5500	0.0027	0.4909
		V max (V)	138.00	5500.0018	5500	0.0018	0.3273
		V min (V)	102.00	5500.0080	5500	0.0080	1.4545
Limits				5500-5700 MHz			
Result				Complies			

Temperature vs. Frequency Stability

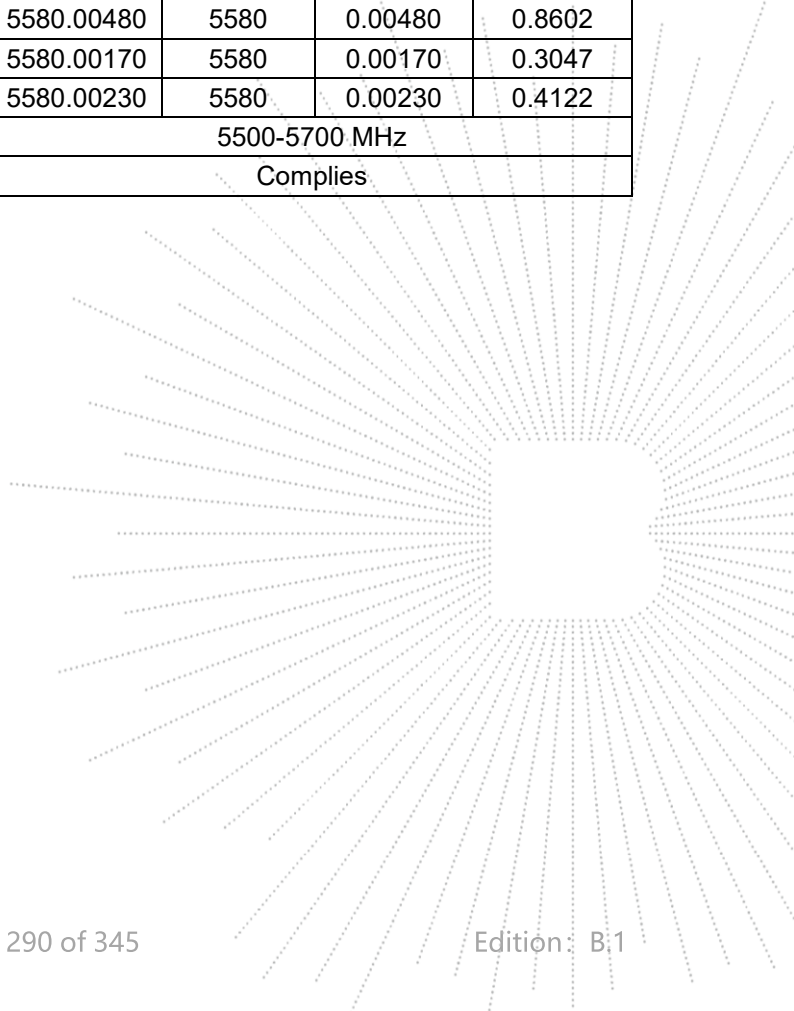
TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5500.0092	5500	0.0092	1.6727
		T (°C)	-10	5500.0091	5500	0.0091	1.6545
		T (°C)	0	5500.0062	5500	0.0062	1.1273
		T (°C)	10	5500.0021	5500	0.0021	0.3818
		T (°C)	20	5500.0001	5500	0.0001	0.0182
		T (°C)	30	5500.0095	5500	0.0095	1.7273
		T (°C)	40	5500.0022	5500	0.0022	0.4000
		T (°C)	50	5500.0066	5500	0.0066	1.2000
		T (°C)	60	5500.0100	5500	0.0100	1.8182
		T (°C)	70	5500.0105	5500	0.0105	1.9091
Limits				5500-5700 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5580MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5580.0063	5580	0.0063	1.1290
		V max (V)	138.00	5580.0100	5580	0.0100	1.7921
		V min (V)	102.00	5580.0123	5580	0.0123	2.2043
Limits				5500-5700 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5580MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5580.00470	5580	0.00470	0.8423
		T (°C)	-10	5580.00650	5580	0.00650	1.1649
		T (°C)	0	5580.00250	5580	0.00250	0.4480
		T (°C)	10	5580.01200	5580	0.01200	2.1505
		T (°C)	20	5580.00000	5580	0.00000	0.0000
		T (°C)	30	5580.00050	5580	0.00050	0.0896
		T (°C)	40	5580.00130	5580	0.00130	0.2330
		T (°C)	50	5580.00480	5580	0.00480	0.8602
		T (°C)	60	5580.00170	5580	0.00170	0.3047
		T (°C)	70	5580.00230	5580	0.00230	0.4122
Limits				5500-5700 MHz			
Result				Complies			

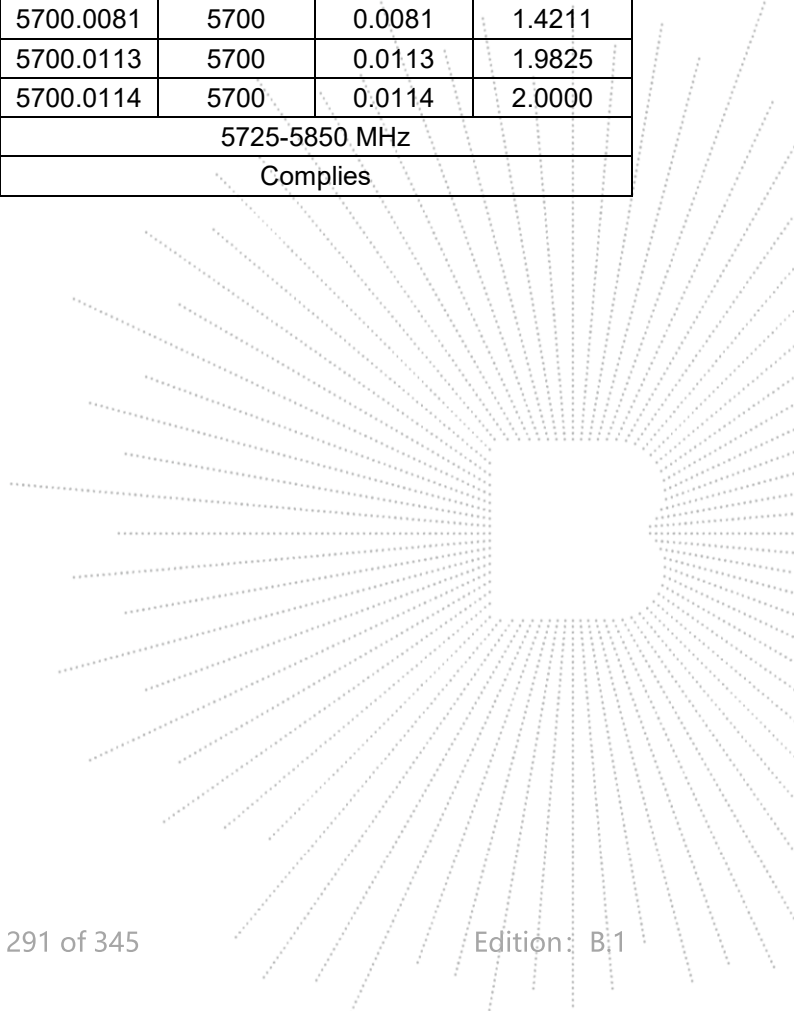


Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5700.0048	5700	0.0048	0.8421
		V max (V)	138.00	5700.0133	5700	0.0133	2.3333
		V min (V)	102.00	5700.0095	5700	0.0095	1.6667
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5700.0032	5700	0.0032	0.5614
		T (°C)	-10	5700.0106	5700	0.0106	1.8596
		T (°C)	0	5700.0111	5700	0.0111	1.9474
		T (°C)	10	5700.0096	5700	0.0096	1.6842
		T (°C)	20	5700.0134	5700	0.0134	2.3509
		T (°C)	30	5700.0016	5700	0.0016	0.2807
		T (°C)	40	5700.0035	5700	0.0035	0.6140
		T (°C)	50	5700.0081	5700	0.0081	1.4211
		T (°C)	60	5700.0113	5700	0.0113	1.9825
		T (°C)	70	5700.0114	5700	0.0114	2.0000
Limits				5725-5850 MHz			
Result				Complies			



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX (5.8G) Mode Frequency U-NII-3 (5745-5825MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5745.00160	5745	0.00160	0.2785
		V max (V)	138.00	5745.00160	5745	0.00160	0.2785
		V min (V)	102.00	5745.00880	5745	0.00880	1.5318
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

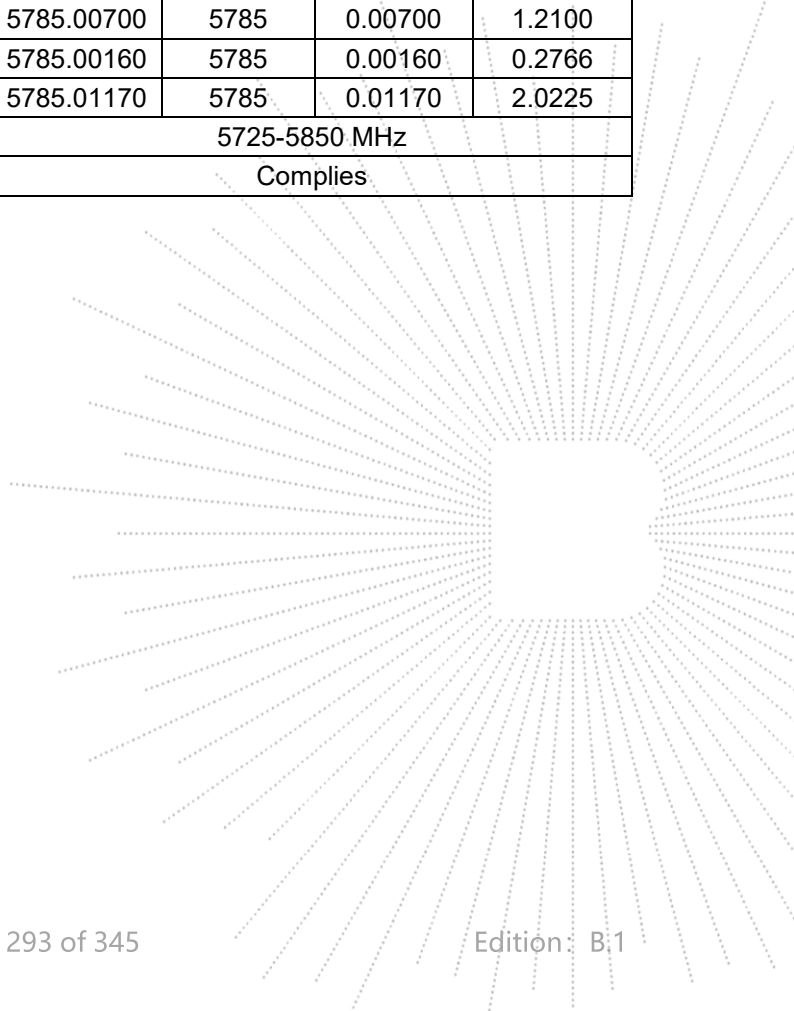
TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5745.00200	5745	0.00200	0.3481
		T (°C)	-10	5745.00810	5745	0.00810	1.4099
		T (°C)	0	5745.00690	5745	0.00690	1.2010
		T (°C)	10	5745.00240	5745	0.00240	0.4178
		T (°C)	20	5745.00320	5745	0.00320	0.5570
		T (°C)	30	5745.00390	5745	0.00390	0.6789
		T (°C)	40	5745.00650	5745	0.00650	1.1314
		T (°C)	50	5745.01200	5745	0.01200	2.0888
		T (°C)	60	5745.00000	5745	0.00000	0.0000
		T (°C)	70	5745.00690	5745	0.00690	1.2010
Limits				5725-5850 MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5785.01250	5785	0.01250	2.1608
		V max (V)	138.00	5785.00200	5785	0.00200	0.3457
		V min (V)	102.00	5785.01100	5785	0.01100	1.9015
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5785.00600	5785	0.00600	1.0372
		T (°C)	-10	5785.00650	5785	0.00650	1.1236
		T (°C)	0	5785.00660	5785	0.00660	1.1409
		T (°C)	10	5785.00670	5785	0.00670	1.1582
		T (°C)	20	5785.01110	5785	0.01110	1.9188
		T (°C)	30	5785.00150	5785	0.00150	0.2593
		T (°C)	40	5785.01020	5785	0.01020	1.7632
		T (°C)	50	5785.00700	5785	0.00700	1.2100
		T (°C)	60	5785.00160	5785	0.00160	0.2766
		T (°C)	70	5785.01170	5785	0.01170	2.0225
Limits				5725-5850 MHz			
Result				Complies			

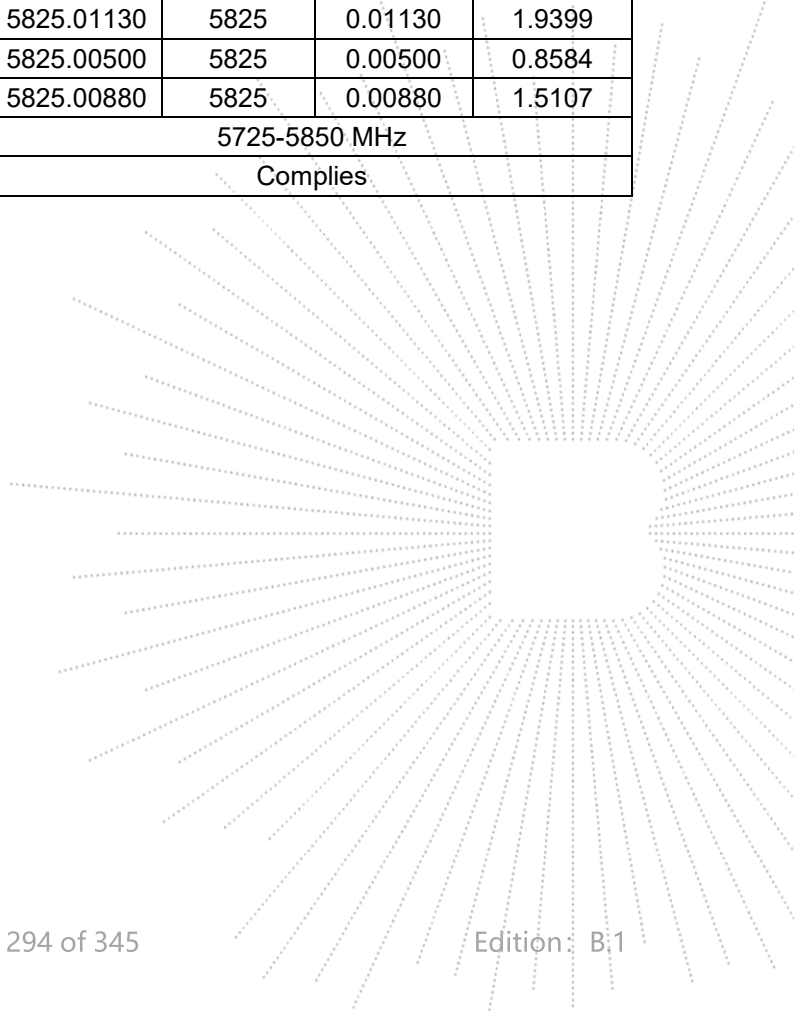


Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120.00	5825.00500	5825	0.00500	0.8584
		V max (V)	138.00	5825.00430	5825	0.00430	0.7382
		V min (V)	102.00	5825.00010	5825	0.00010	0.0172
Limits				5725-5850 MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5825.00280	5825	0.00280	0.4807
		T (°C)	-10	5825.00100	5825	0.00100	0.1717
		T (°C)	0	5825.01160	5825	0.01160	1.9914
		T (°C)	10	5825.00110	5825	0.00110	0.1888
		T (°C)	20	5825.00600	5825	0.00600	1.0300
		T (°C)	30	5825.00300	5825	0.00300	0.5150
		T (°C)	40	5825.00270	5825	0.00270	0.4635
		T (°C)	50	5825.01130	5825	0.01130	1.9399
		T (°C)	60	5825.00500	5825	0.00500	0.8584
		T (°C)	70	5825.00880	5825	0.00880	1.5107
Limits				5725-5850 MHz			
Result				Complies			



14. Duty Cycle Of Test Signal

14.1 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.

14.2 Formula

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

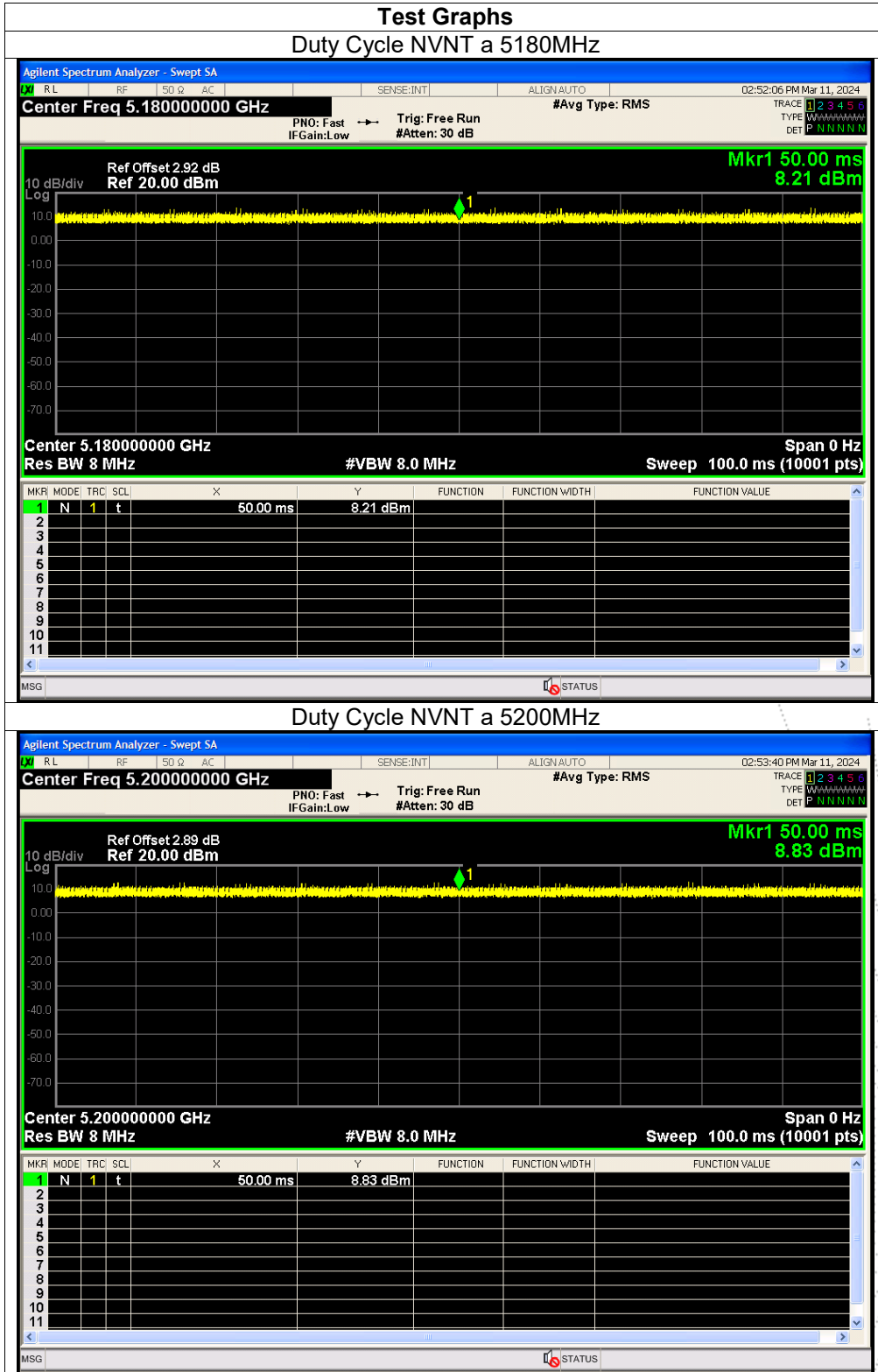
14.3 Test Procedure

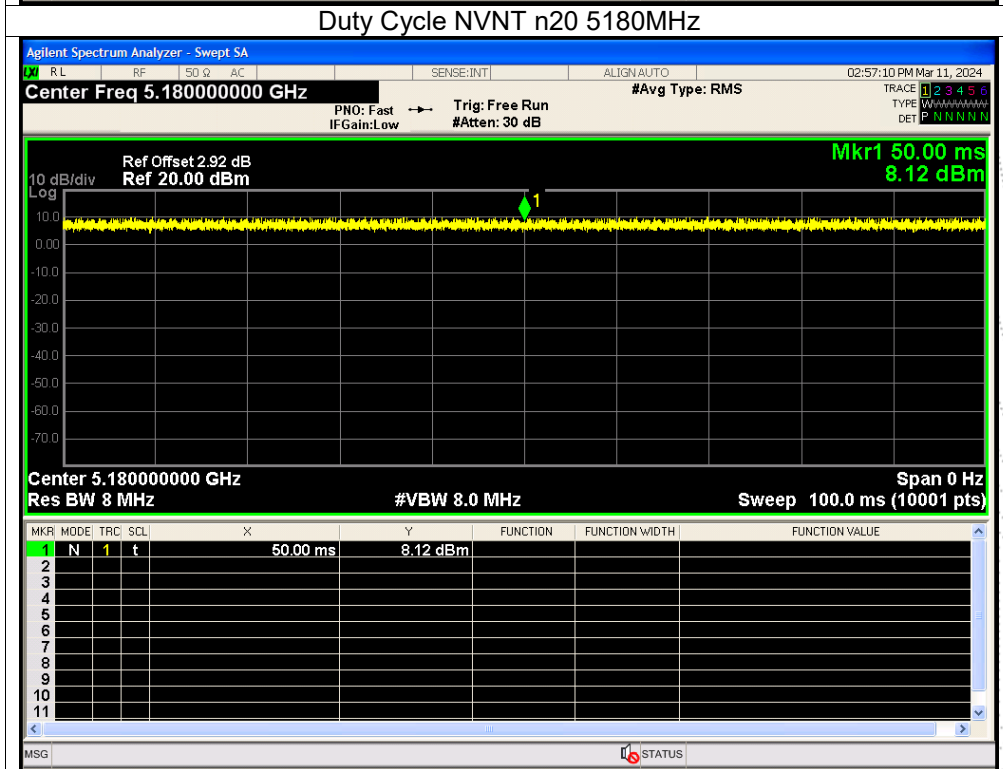
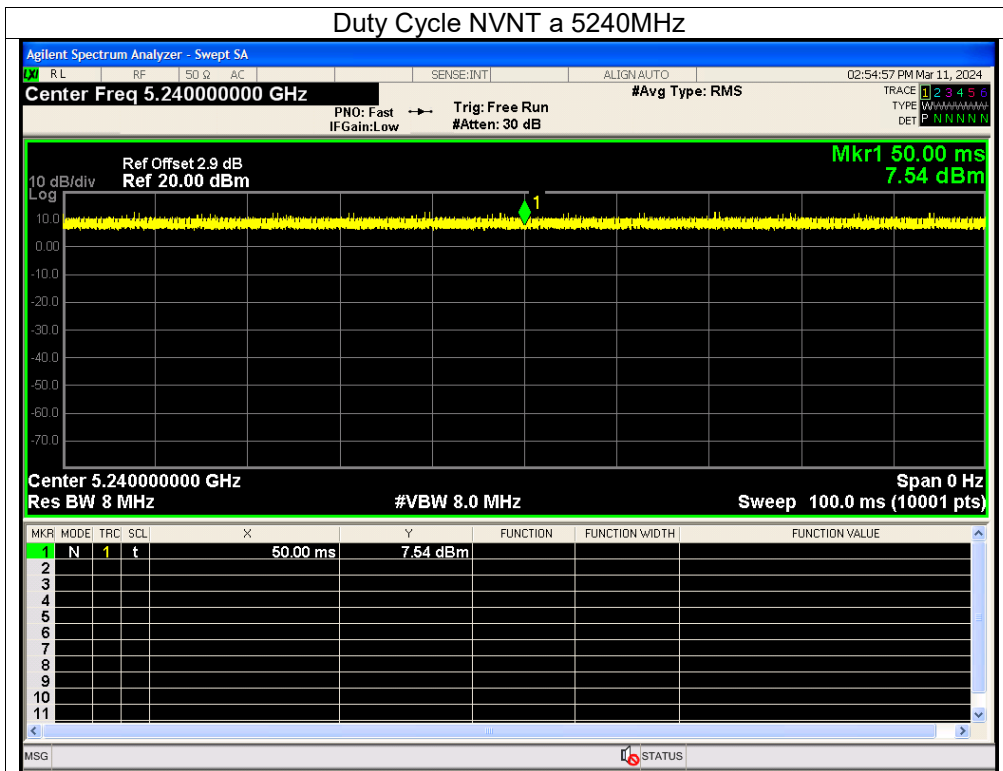
1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

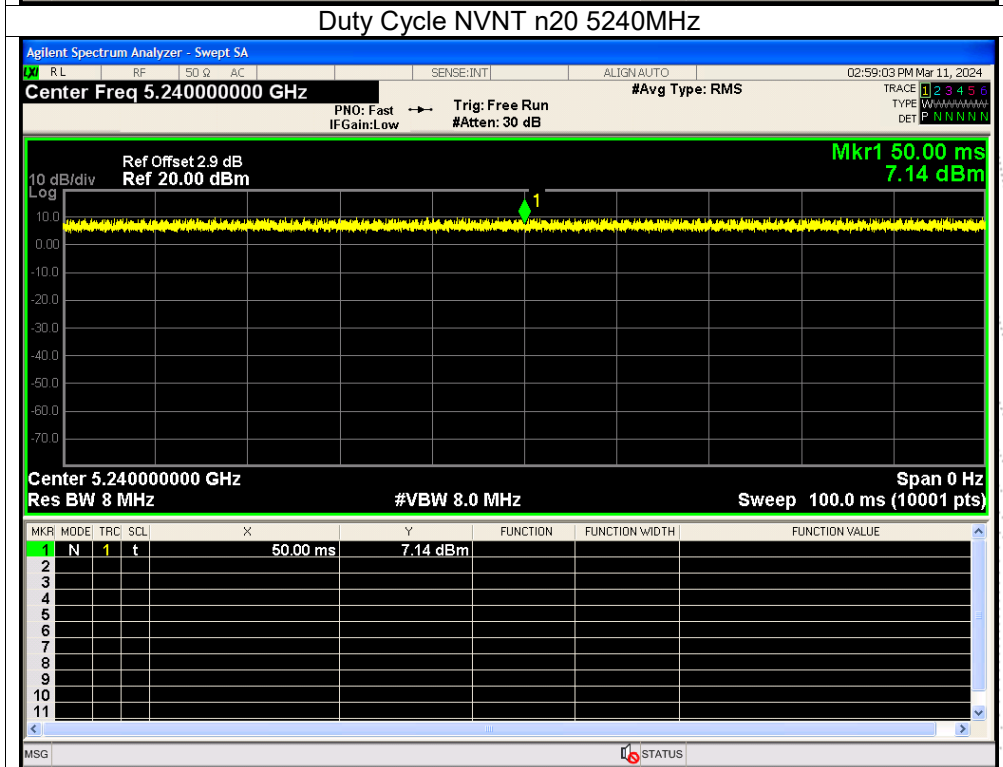
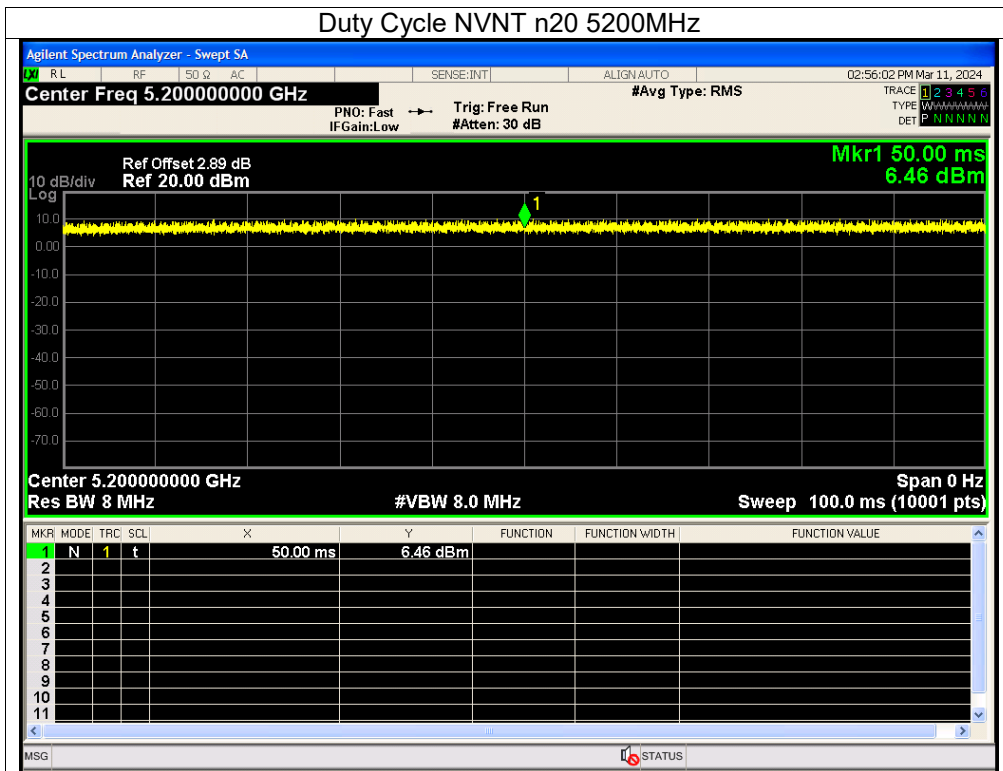
14.4 Test Result

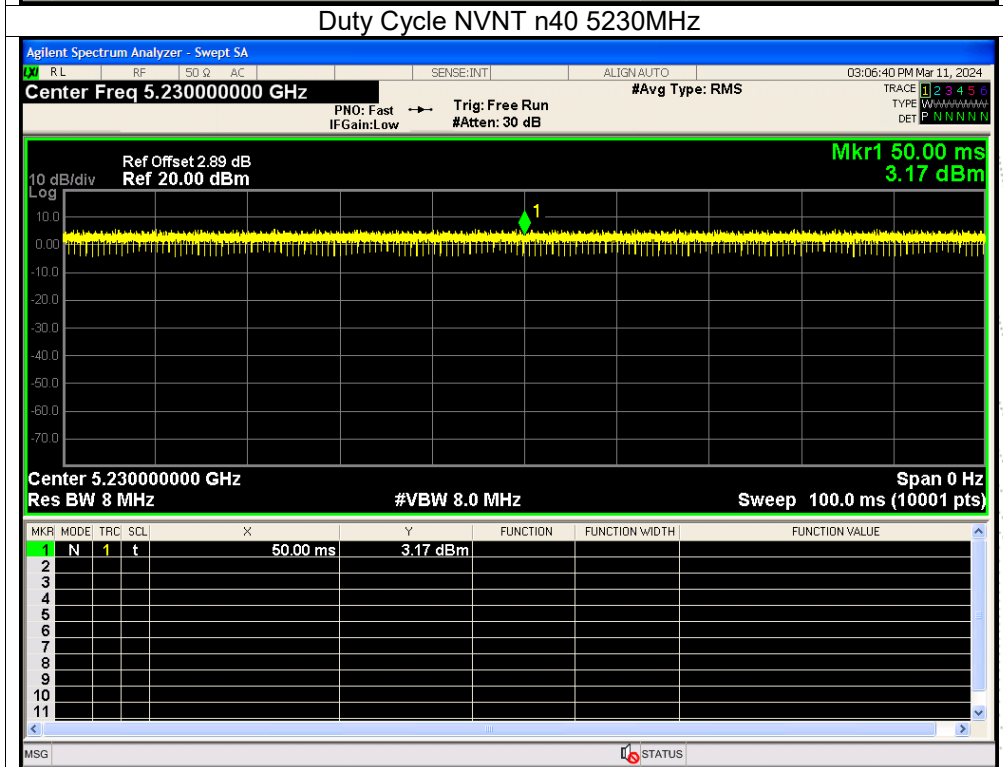
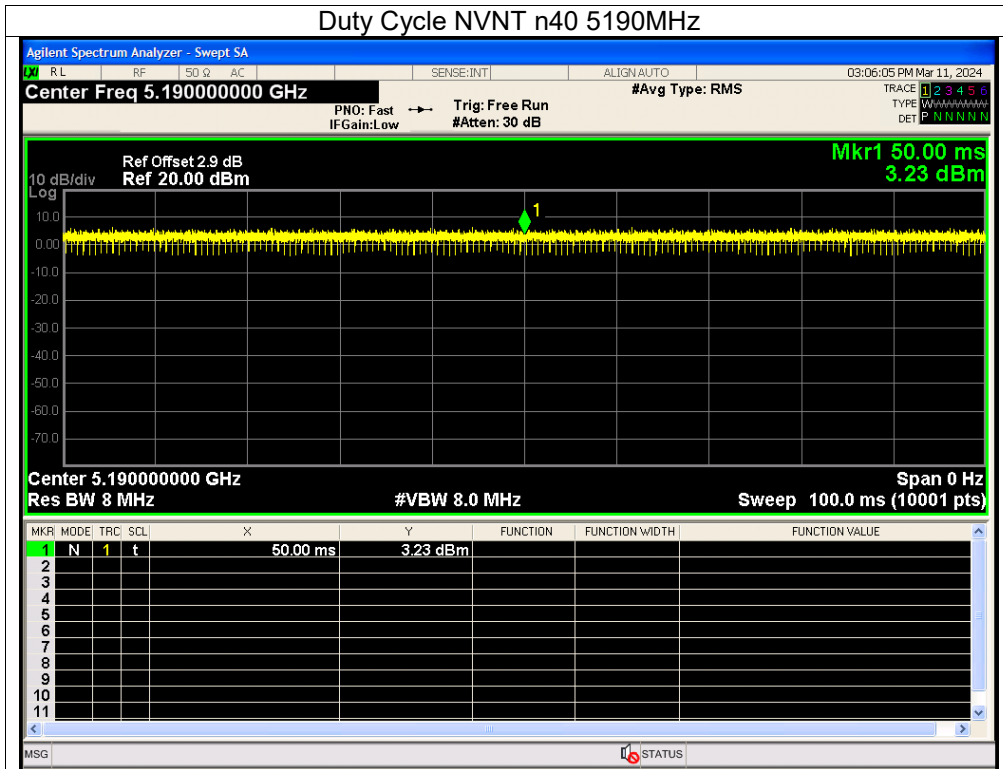
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	100	0	0
NVNT	a	5200	100	0	0
NVNT	a	5240	100	0	0
NVNT	n20	5180	100	0	0
NVNT	n20	5200	100	0	0
NVNT	n20	5240	100	0	0
NVNT	n40	5190	100	0	0
NVNT	n40	5230	100	0	0
NVNT	ac20	5180	100	0	0
NVNT	ac20	5200	100	0	0
NVNT	ac20	5240	100	0	0
NVNT	ac40	5190	100	0	0
NVNT	ac40	5230	100	0	0
NVNT	ac80	5210	100	0	0
NVNT	ax20	5180	100	0	0
NVNT	ax20	5200	100	0	0
NVNT	ax20	5240	100	0	0
NVNT	ax40	5190	100	0	0
NVNT	ax40	5230	100	0	0
NVNT	ax80	5210	100	0	0

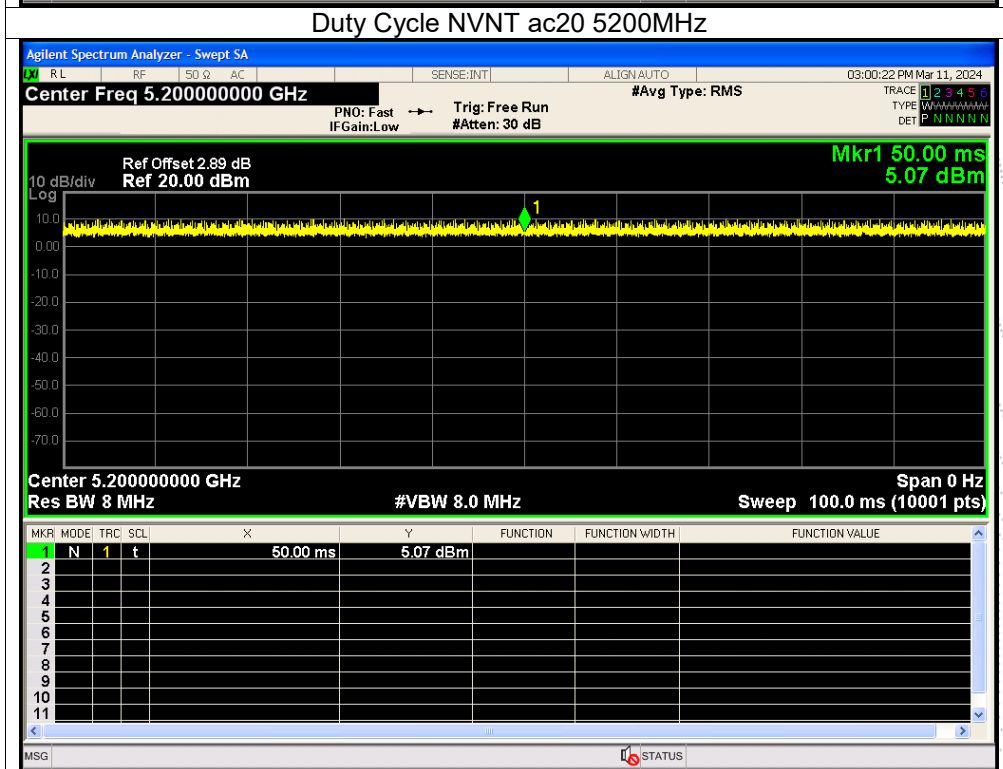
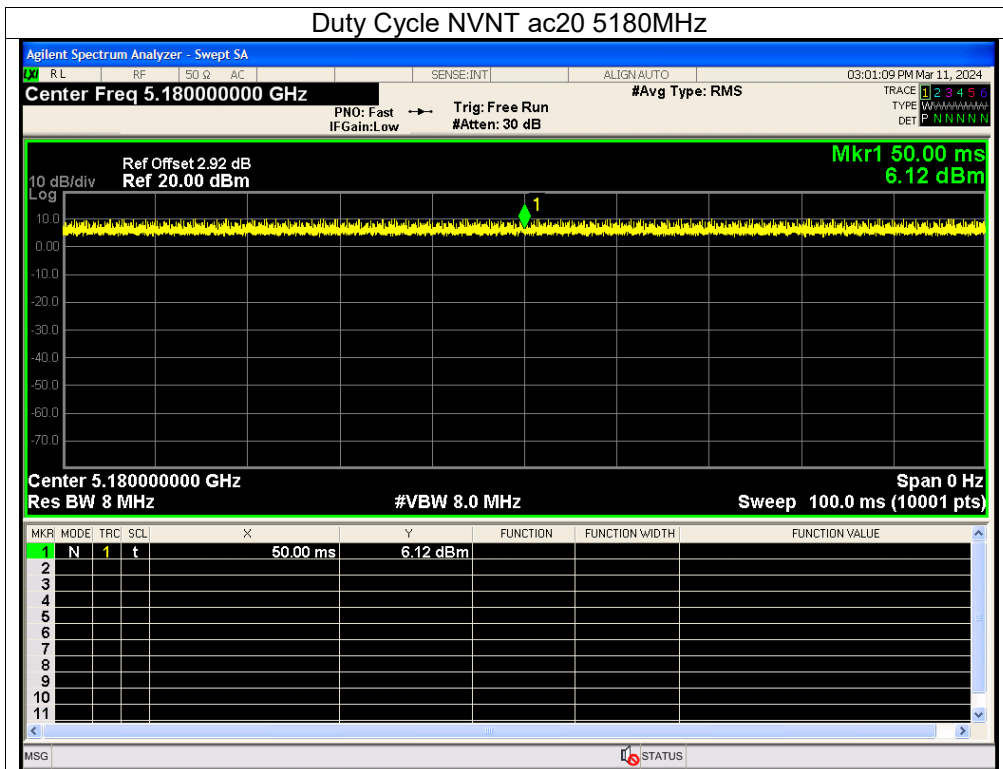
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A . Plot.

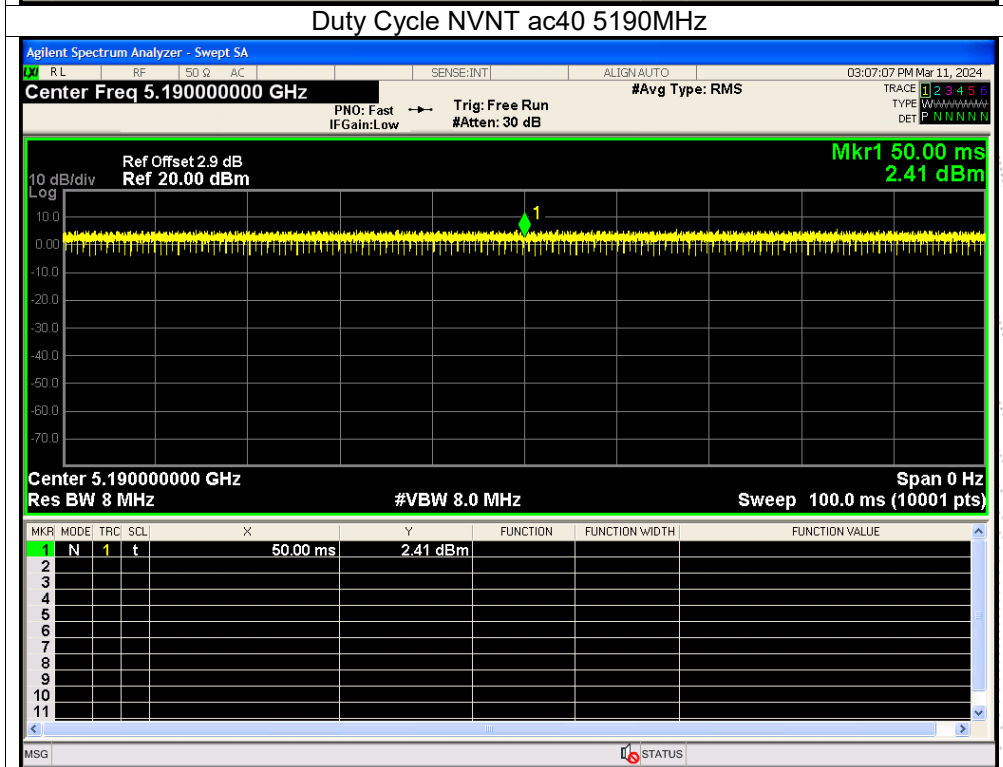
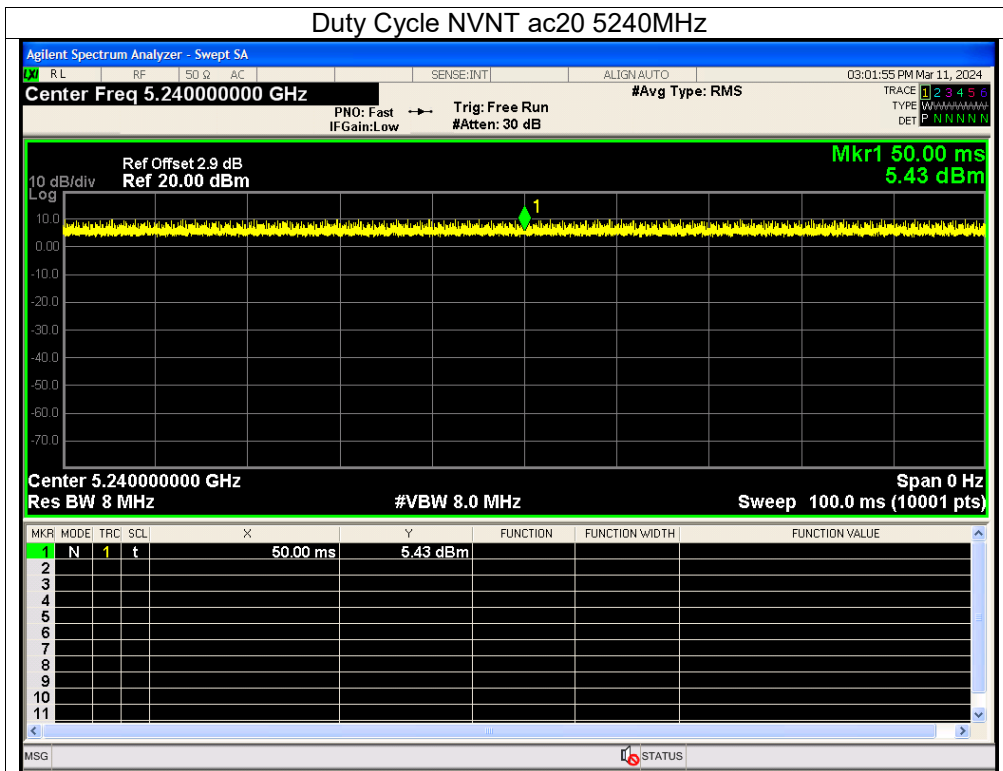


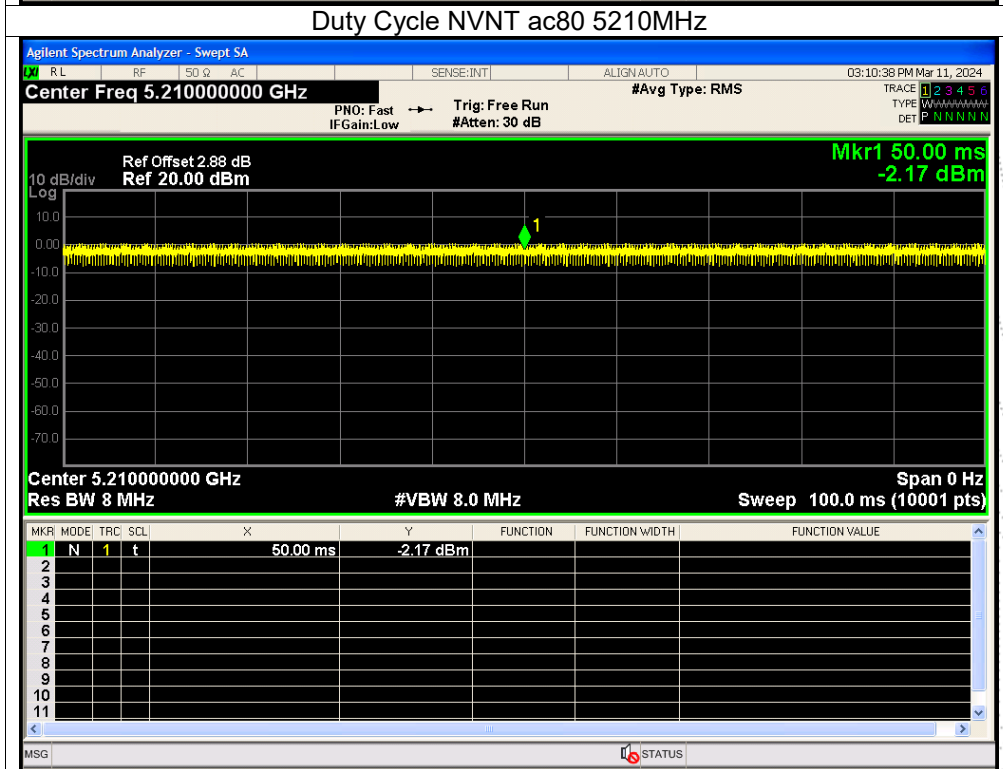
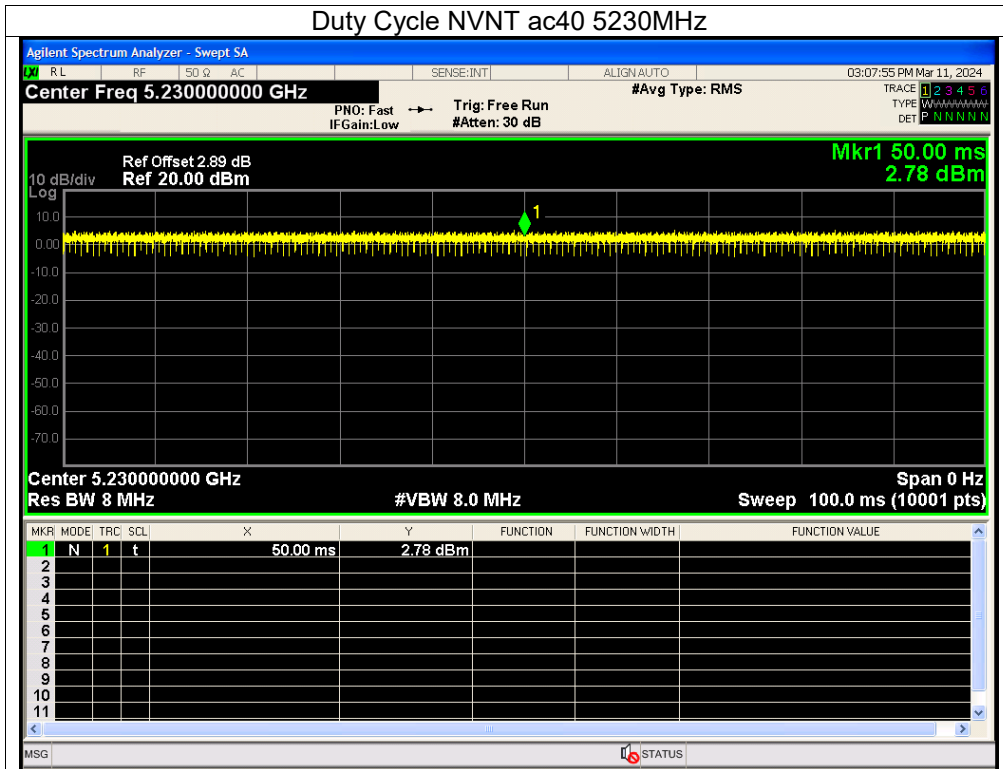


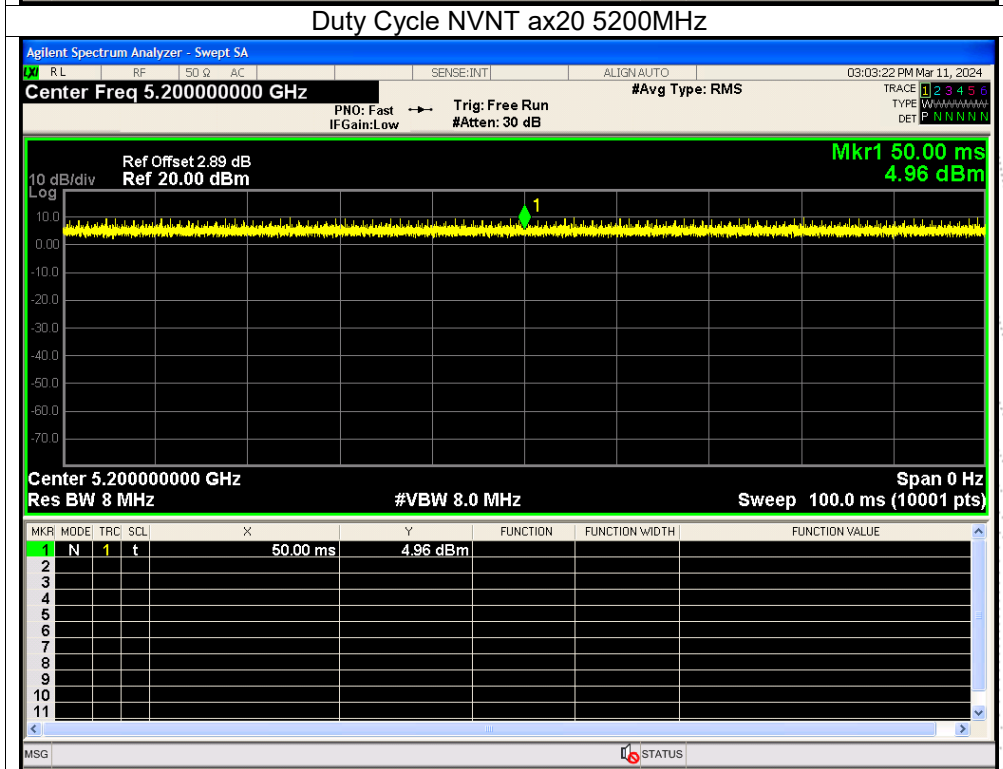
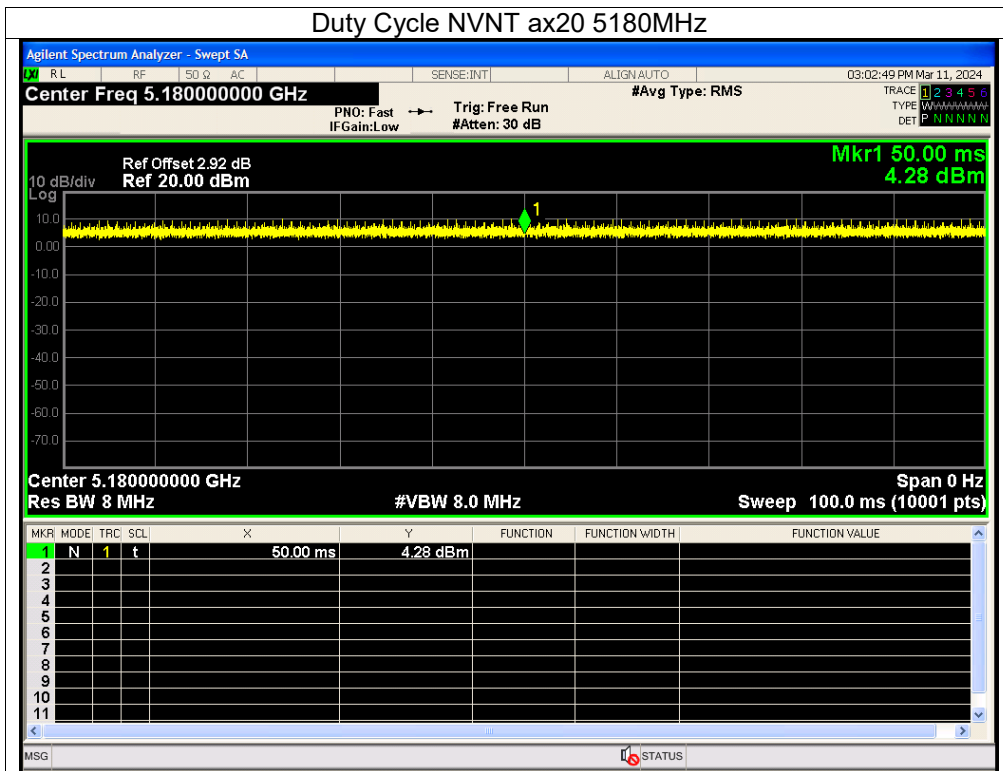


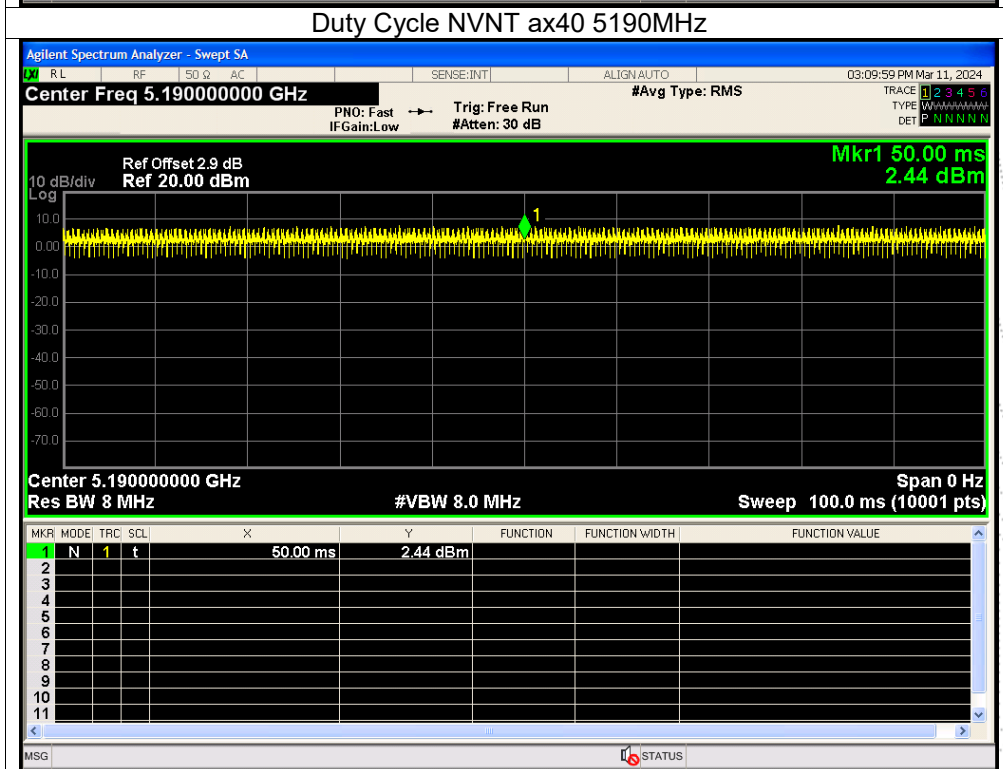
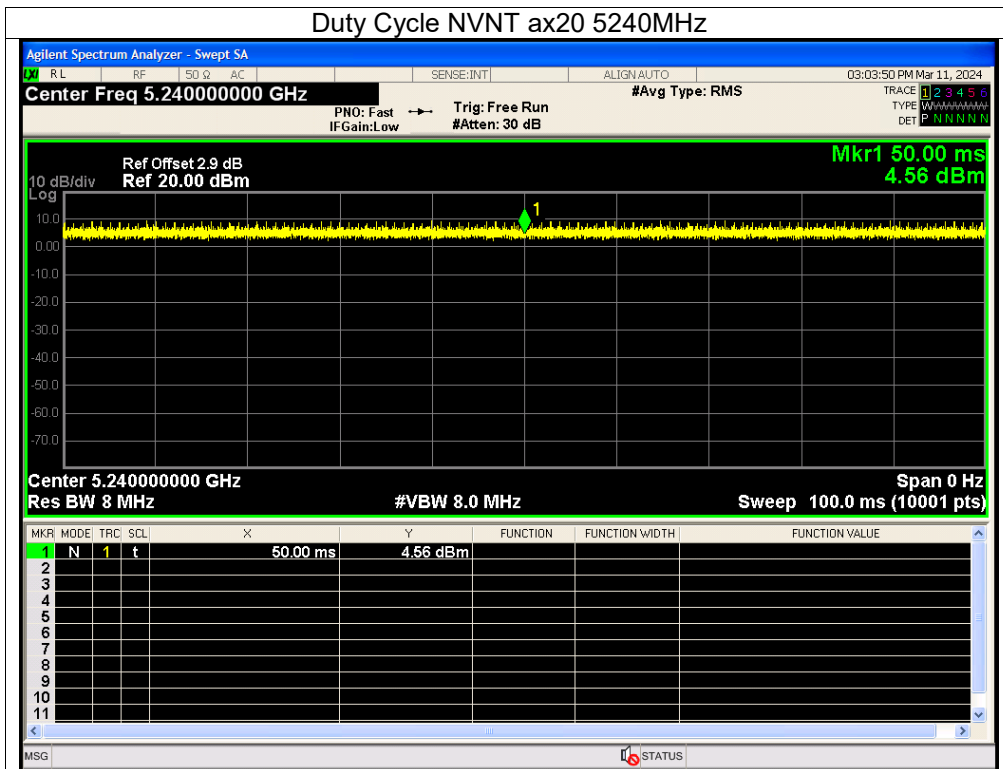


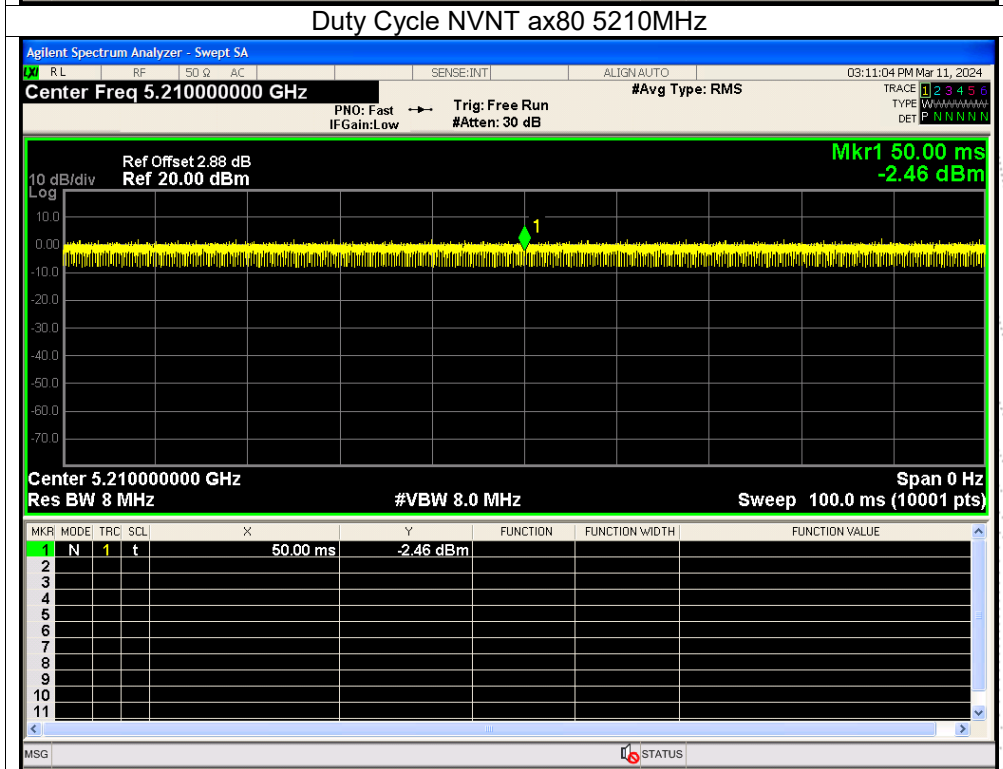
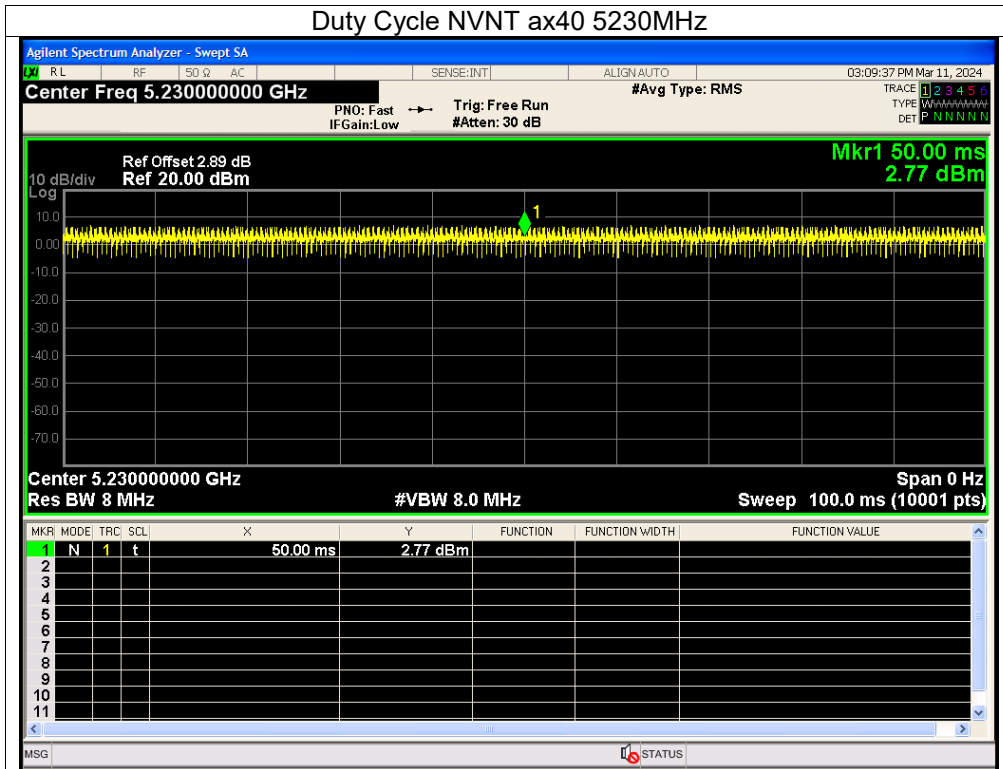




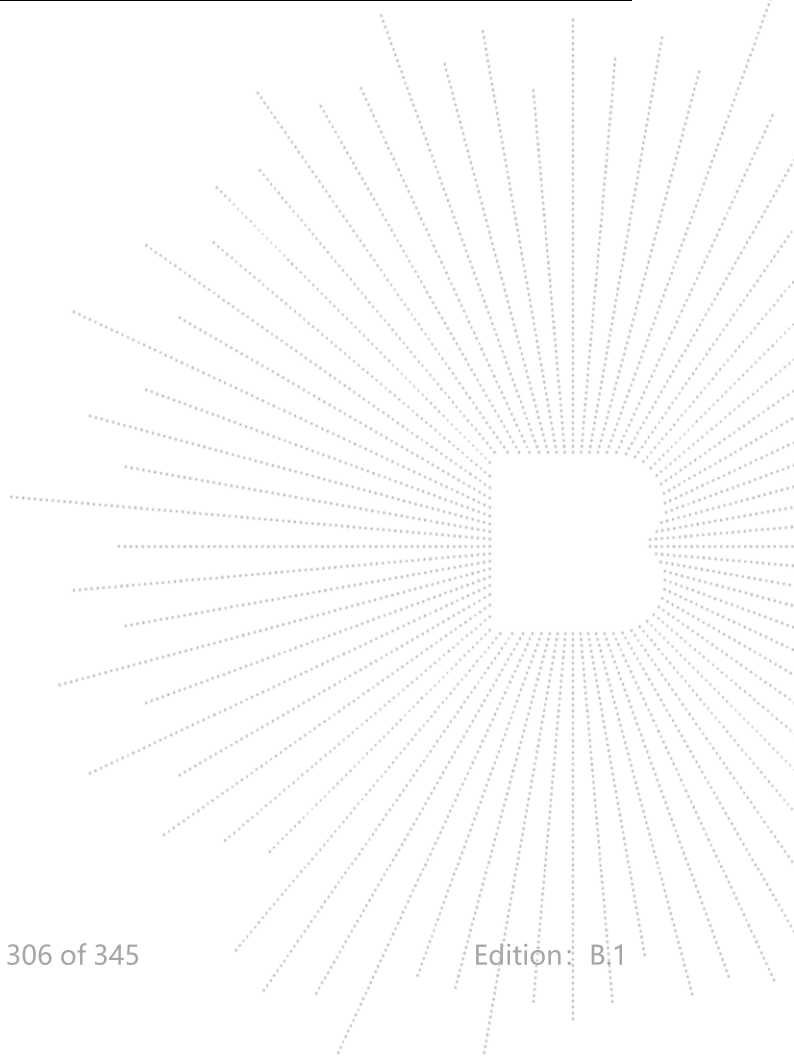








Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	100	0	0
NVNT	a	5280	100	0	0
NVNT	a	5320	100	0	0
NVNT	n20	5260	100	0	0
NVNT	n20	5280	100	0	0
NVNT	n20	5320	100	0	0
NVNT	n40	5270	100	0	0
NVNT	n40	5310	100	0	0
NVNT	ac20	5260	100	0	0
NVNT	ac20	5280	100	0	0
NVNT	ac20	5320	100	0	0
NVNT	ac40	5270	100	0	0
NVNT	ac40	5310	100	0	0
NVNT	ac80	5290	100	0	0
NVNT	ax20	5260	100	0	0
NVNT	ax20	5280	100	0	0
NVNT	ax20	5320	100	0	0
NVNT	ax40	5270	100	0	0
NVNT	ax40	5310	100	0	0
NVNT	ax80	5290	100	0	0



Note: A(B) Represent the value of antenna A and B, The worst data is Antenna A, only shown Antenna A . Plot.

