

e)For 5.725~5.85 GHz, the measured result of PSD level must add 10log(500kHz/RBW) and the final result should ≤ 30 dBm.	
Test Equipment Setting:	
a)Attenuation: Auto	e)Detector: RMS
b)Span Frequency: Encompass the entire emissions bandwidth (EBW) of the signal	f)Trace: AVERAGE
c)RBW: 1000 kHz	g)Sweep Time: Auto
d)VBW: 3000 kHz	h)Trace Average: 100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	

Frequency Stability Measurement:

Test Method:	
a)The transmitter output (antenna port) was connected to the spectrum analyzer.	
b)EUT have transmitted absence of modulation signal and fixed channelize.	
c)Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.	
d)Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.	
e)fc is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 106$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).	
f)The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value	
g)Extreme temperature is 0°C~40°C	
Test Equipment Setting:	
a)Attenuation: Auto	e)Sweep Time: Auto
b)Span Frequency: Entire absence of modulation emissions bandwidth	
c)RBW: 10 kHz	
d)VBW: 10 kHz	

7.5.3 CONFIGURATION OF THE EUT

Same as section 3.4 of this report

7.5.4 EUT OPERATING CONDITION

Same as section 3.5 of this report.

7.5.5 LIMIT

-26dB Bandwidth and 99% Occupied Bandwidth:	
Limit:	No restriction limits.
-6 dB Bandwidth:	
Limit:	For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.
Test Equipment Setting:	
a) Attenuation: Auto	e) Detector: Peak
b) Span Frequency: > 6dB Bandwidth	f) Trace: Max Hold
c) RBW: 100kHz	g) Sweep Time: Auto
d) VBW: $\geq 3 \times$ RBW	
Maximum Conducted Output Power Measurement:	
☒ 5.15~5.25 GHz	
☐ Limit of Outdoor access point:	☐ Limit of Indoor access point:
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☐ Limit of Fixed point-to-point access points:	☒ Limit of Mobile and portable client devices:
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☒ 5.25-5.35 GHz & ☒ 5.470-5.725 GHz	
The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm $10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
☒ 5.725~5.85 GHz	
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.	
Power Spectral Density	
☒ 5.15~5.25 GHz	
☐ Limit of Outdoor access point: 17 dBm/MHz	☐ Limit of Indoor access point: 17 dBm/MHz
☐ Limit of Fixed point-to-point access points: 17 dBm/MHz	☒ Limit of Mobile and portable client devices: 11 dBm/MHz
☐ 5.25-5.35 GHz	11 dBm/MHz
☐ 5.470-5.725 GHz	11 dBm/MHz
☒ 5.725~5.85 GHz	30 dBm/500kHz
Frequency Stability Measurement:	
Limit:	In-band 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).

7.5.6 TEST RESULT

-26dB Bandwidth and 99% Occupied Bandwidth

Product	: EUT-Sample	Test Mode	: See section 3.4
Test Item	: -26dB Bandwidth/-6dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25 °C
Test Voltage	: DC 3.92V	Humidity	: 56%RH
Test Result	: PASS		

-26Db&99% Bandwidth

Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Verdict
a	5180	20.52	16.475	Pass
a	5240	19.66	16.430	Pass
a	5260	20.31	16.420	Pass
a	5320	19.74	16.451	Pass
a	5500	20.13	16.484	Pass
a	5700	19.70	16.491	Pass
n20	5180	23.21	17.640	Pass
n20	5240	24.15	17.640	Pass
n20	5260	20.56	17.633	Pass
n20	5320	23.63	17.670	Pass
n20	5500	24.67	17.674	Pass
n20	5700	22.31	17.727	Pass
n40	5190	46.74	36.149	Pass
n40	5230	51.77	36.257	Pass
n40	5270	48.48	36.164	Pass
n40	5310	52.29	36.211	Pass
n40	5510	55.70	36.300	Pass
n40	5670	57.29	36.312	Pass
ac20	5180	21.05	17.626	Pass
ac20	5240	21.54	17.632	Pass
ac20	5260	20.73	17.626	Pass
ac20	5320	20.56	17.632	Pass
ac20	5500	21.38	17.649	Pass
ac20	5700	21.28	17.674	Pass
ac40	5190	40.27	36.103	Pass
ac40	5230	45.72	36.213	Pass
ac40	5270	40.63	36.143	Pass
ac40	5310	44.65	36.186	Pass
ac40	5510	41.24	36.219	Pass
ac40	5670	55.34	36.242	Pass
ac80	5210	89.61	75.647	Pass
ac80	5290	84.76	75.426	Pass
ac80	5530	84.07	75.575	Pass
ac80	5610	88.30	75.474	Pass

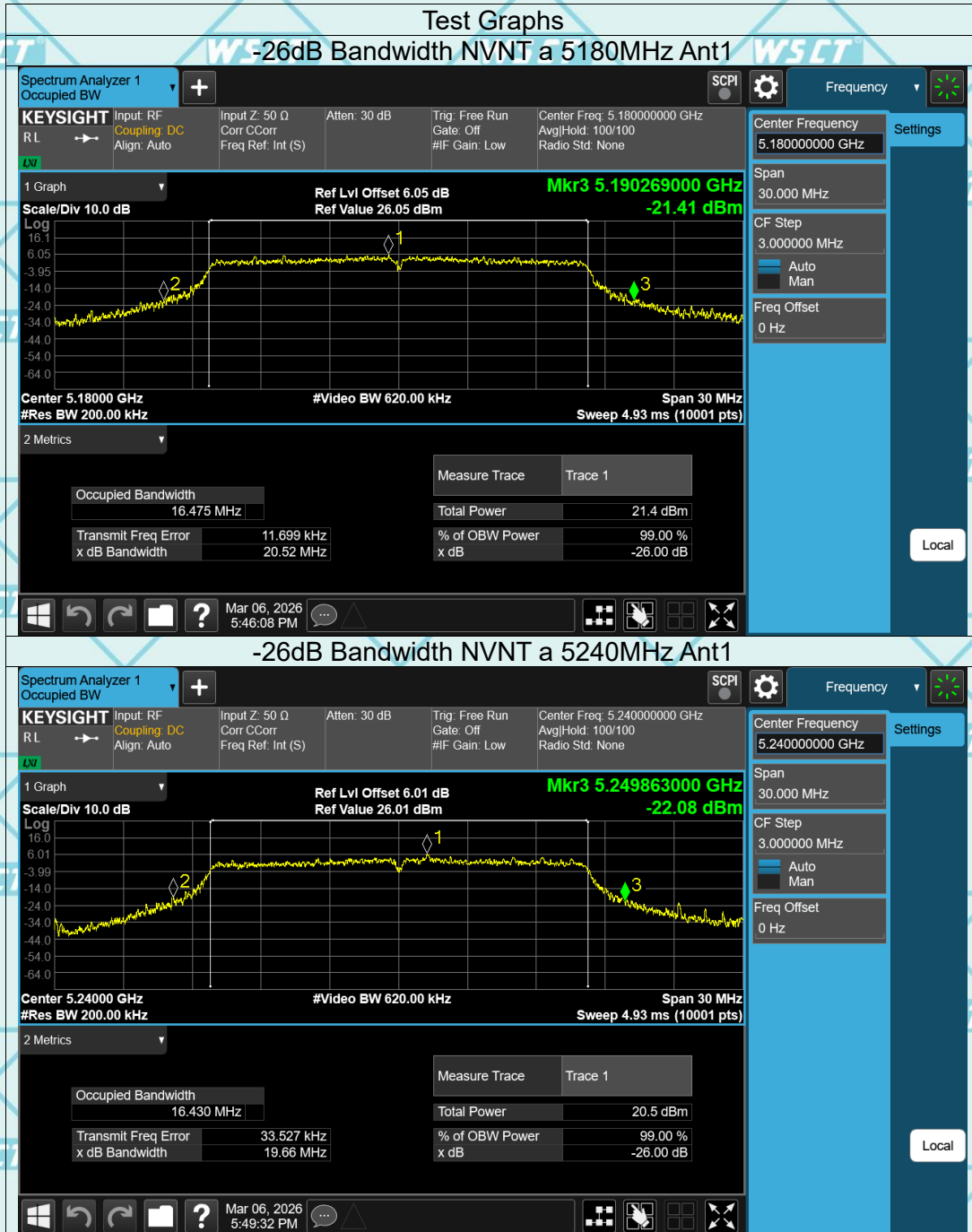
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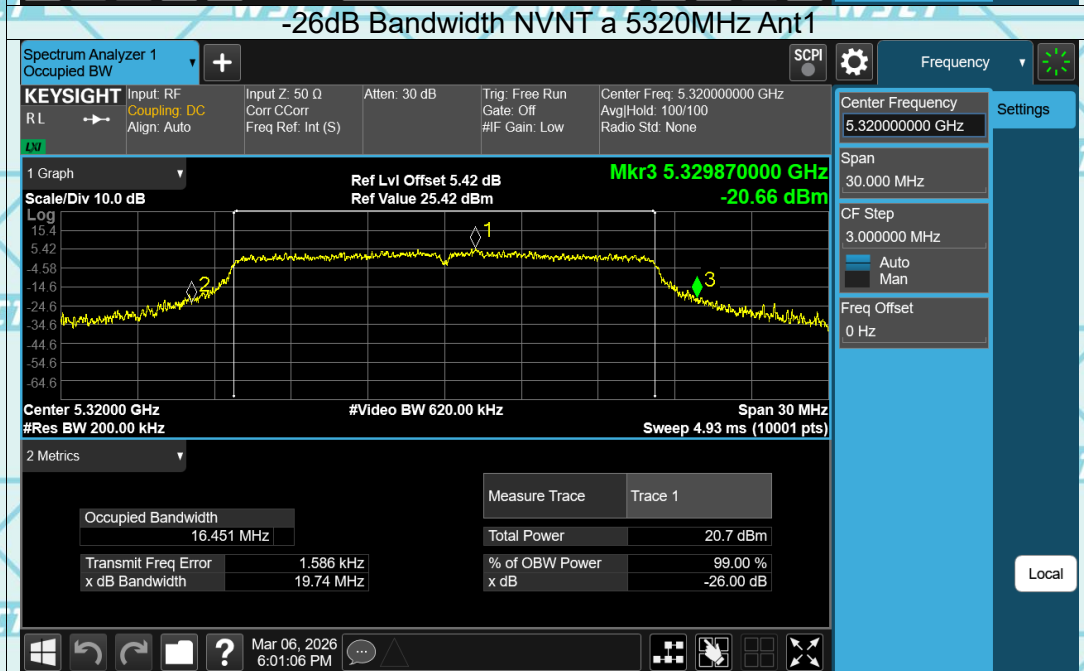
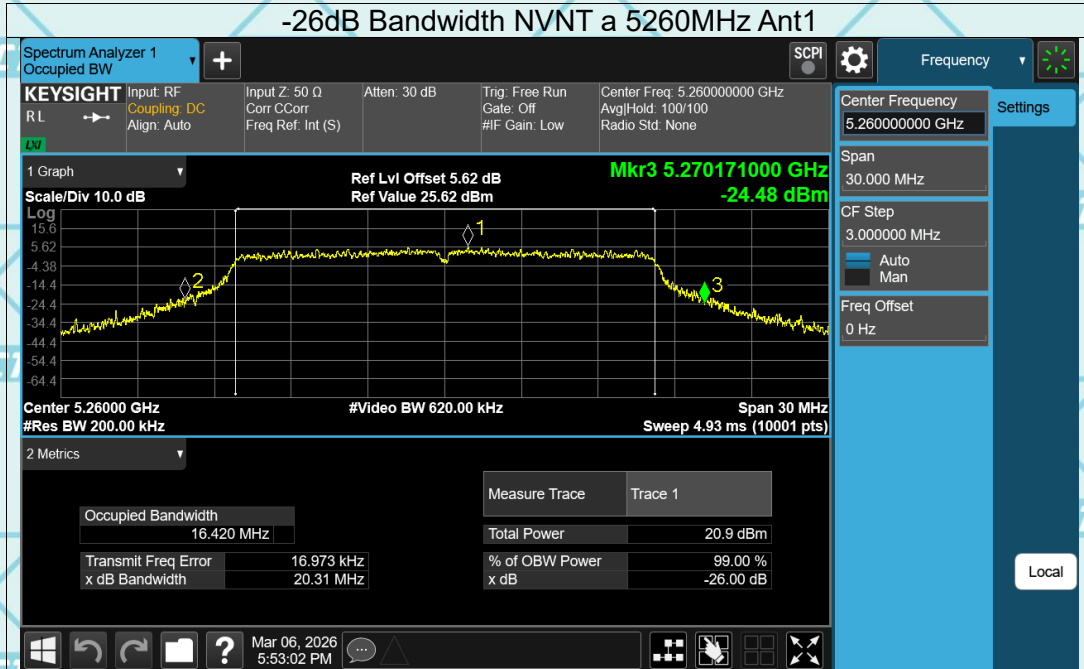
-6dB&99% Bandwidth

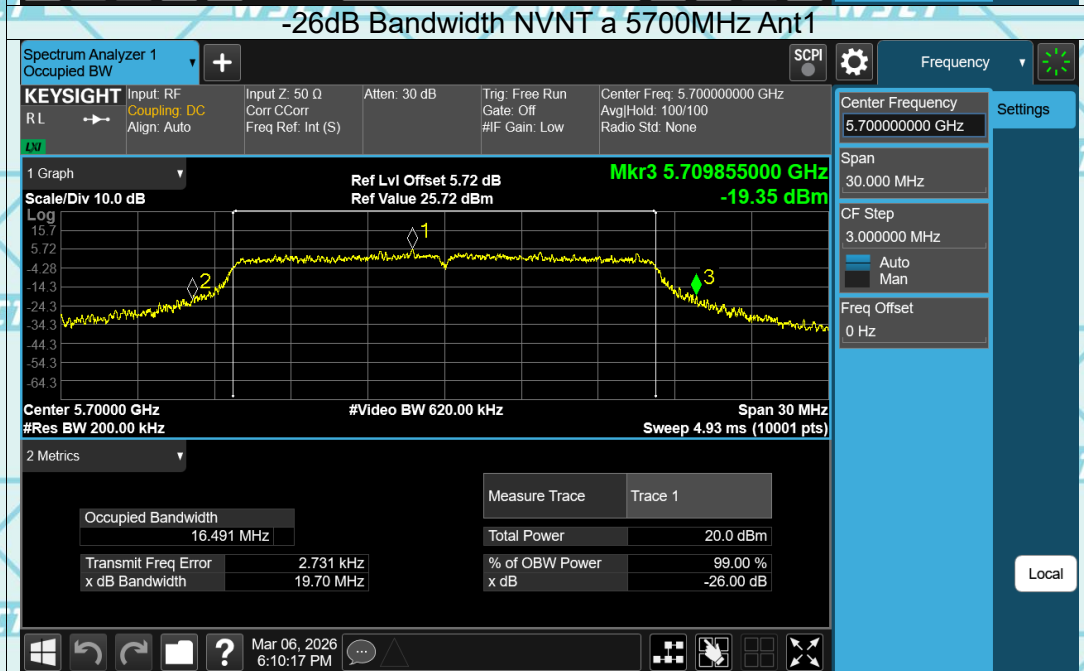
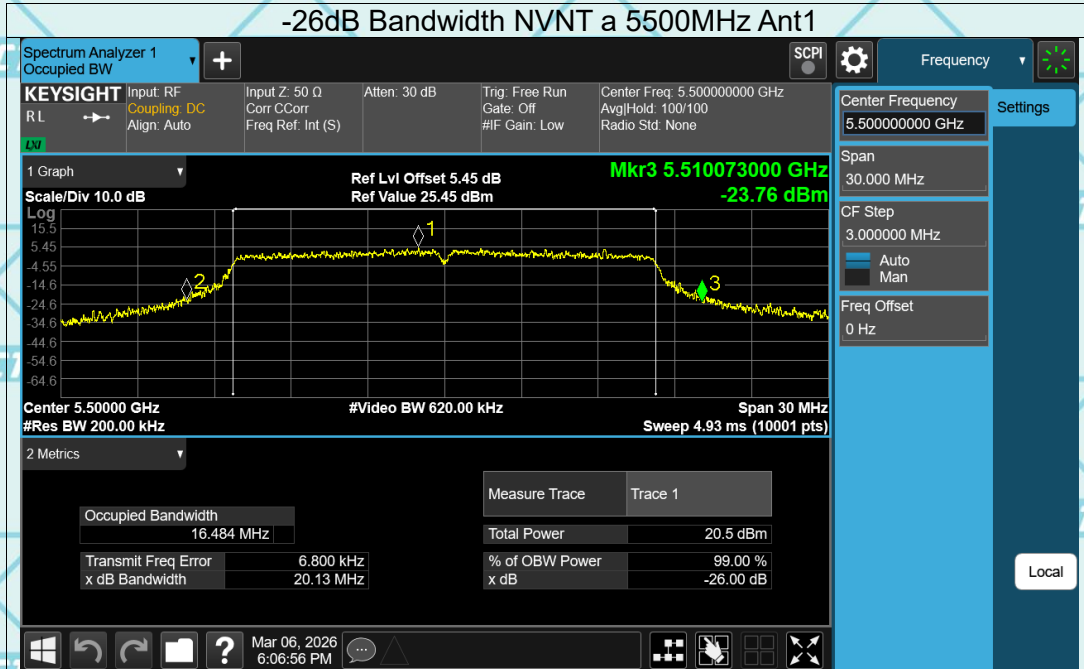
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	14.31	16.377	0.5	Pass
a	5825	15.47	16.383	0.5	Pass
n20	5745	16.05	17.629	0.5	Pass
n20	5825	16.28	17.622	0.5	Pass
n40	5755	34.81	36.169	0.5	Pass
n40	5795	33.90	36.026	0.5	Pass
ac20	5745	17.57	17.594	0.5	Pass
ac20	5825	17.00	17.595	0.5	Pass
ac40	5755	35.11	36.114	0.5	Pass
ac40	5795	35.13	35.978	0.5	Pass
ac80	5775	75.72	75.621	0.5	Pass

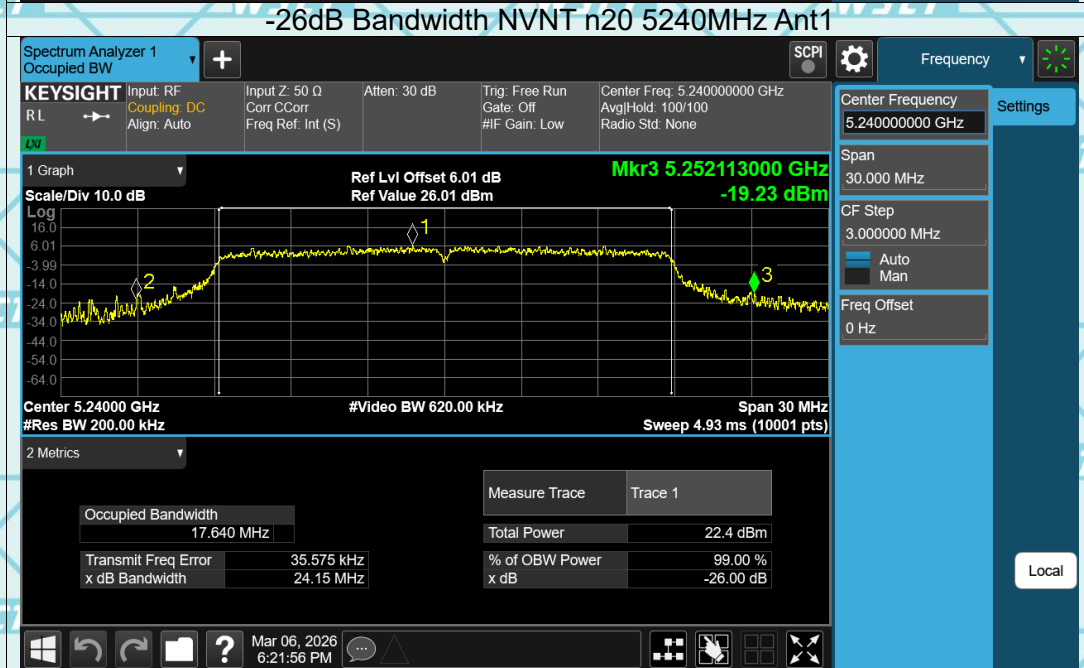
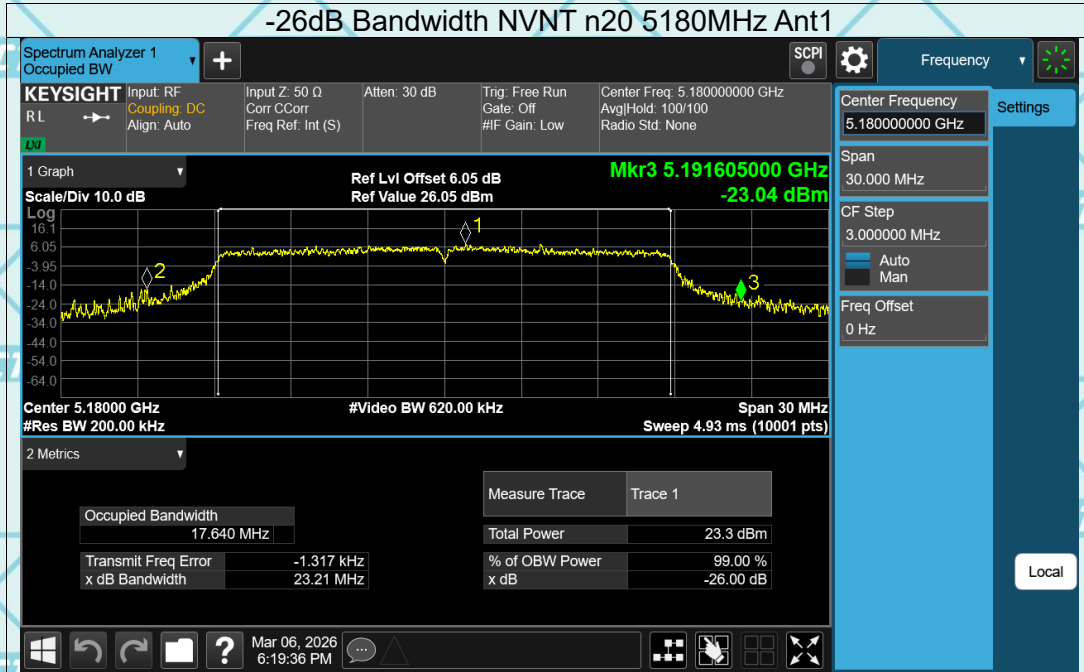
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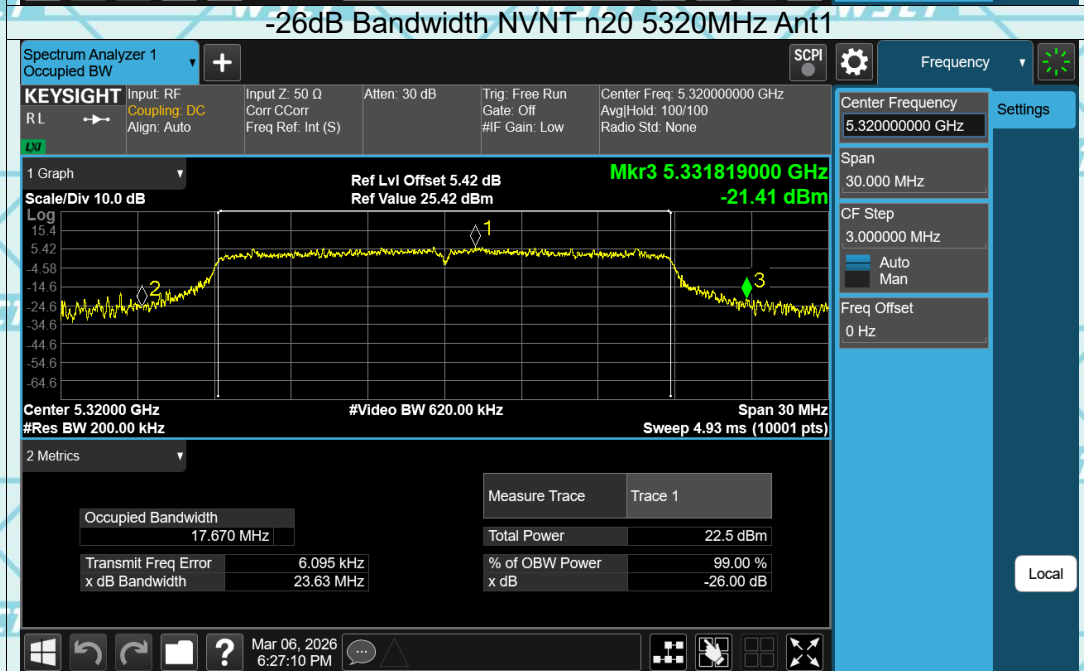
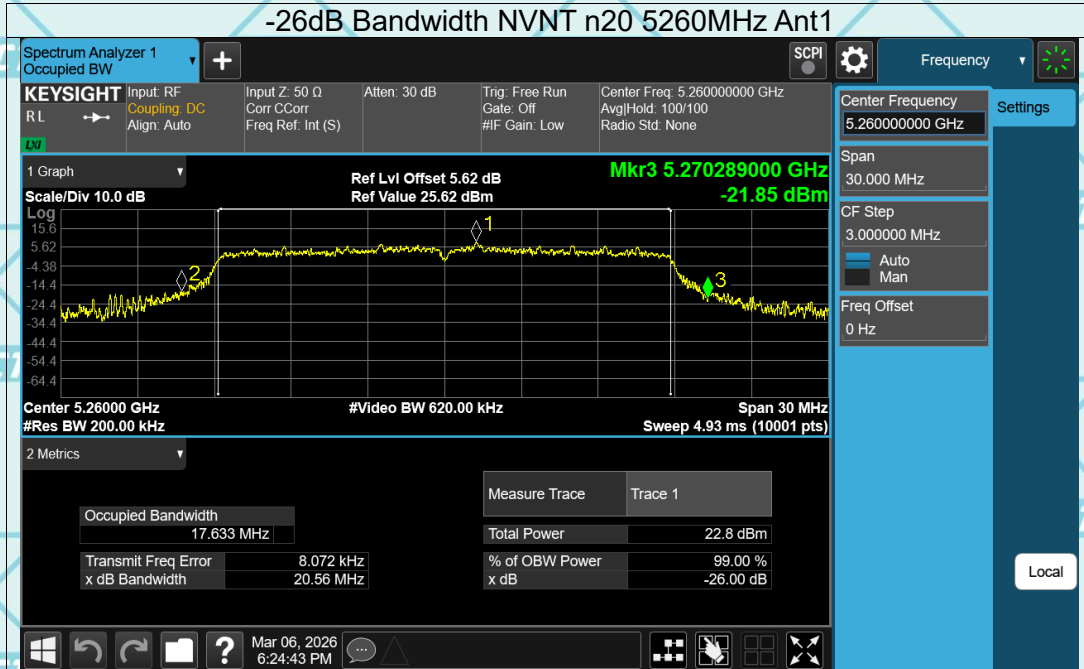
-26Db&99% Bandwidth

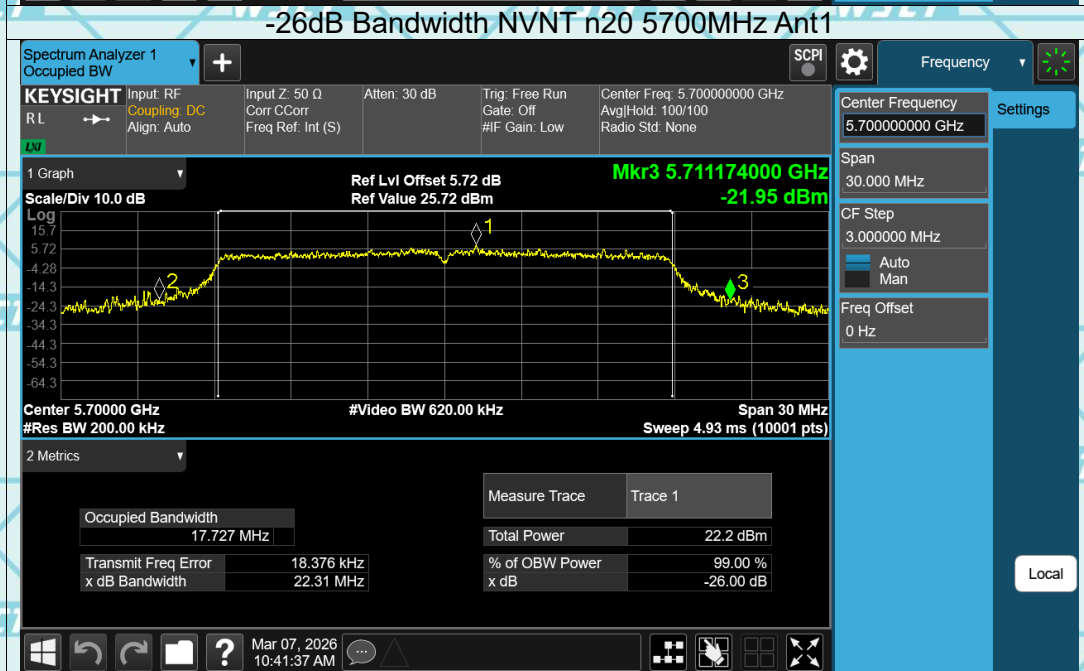
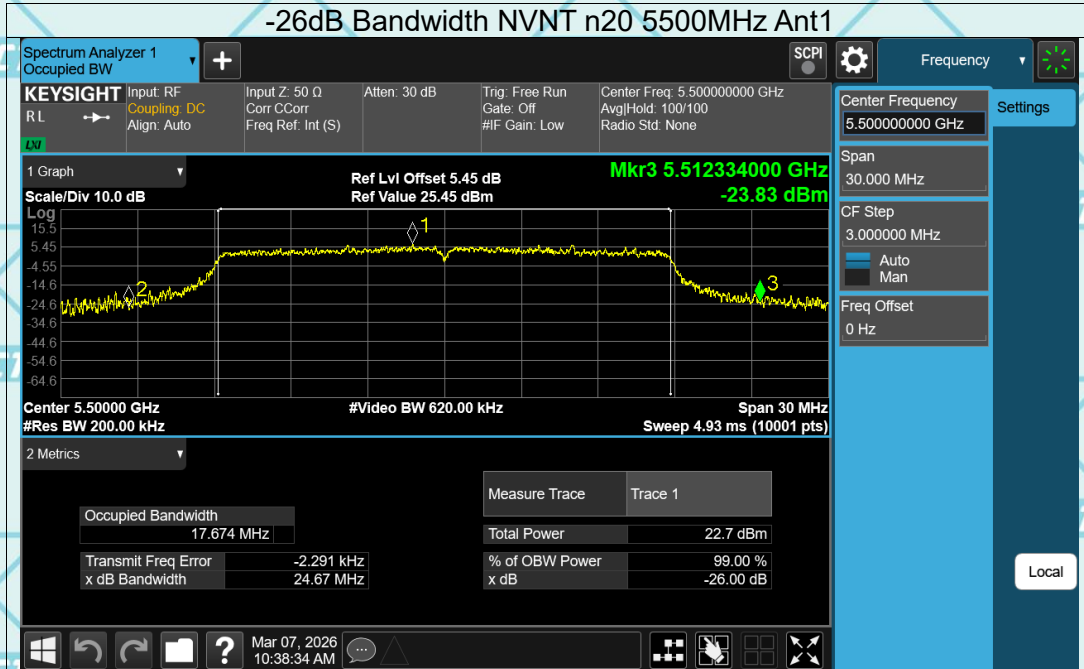


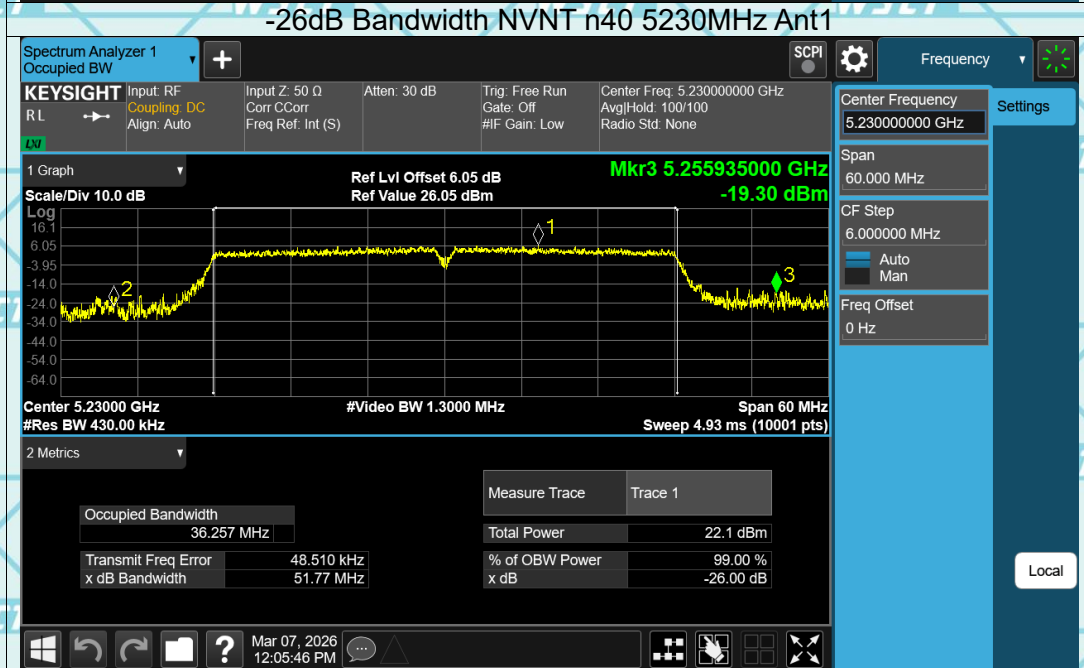
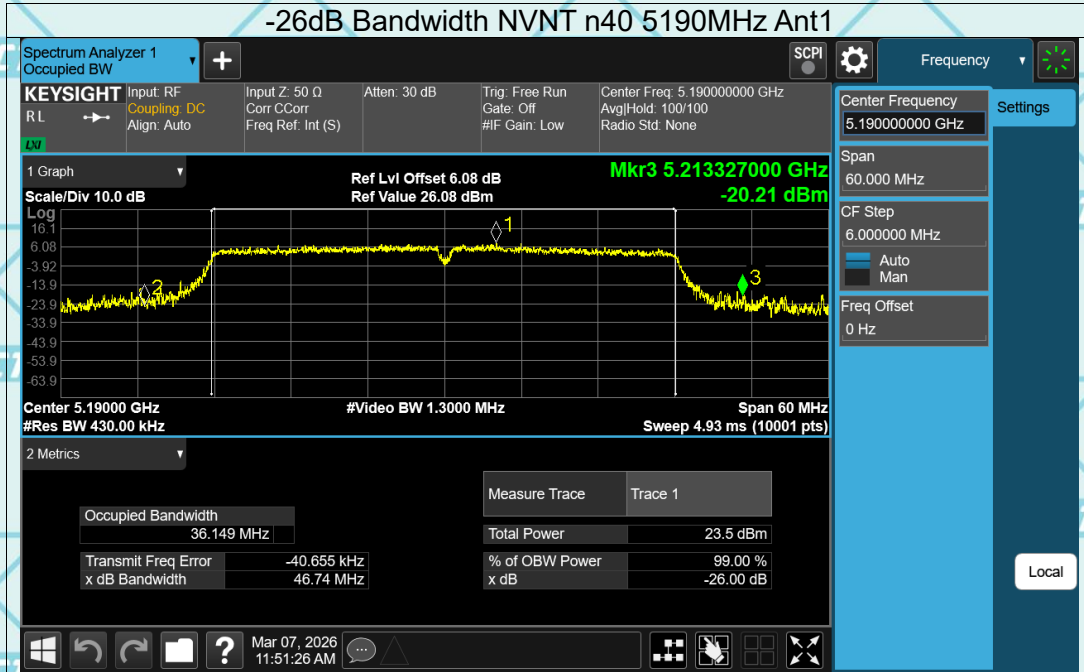


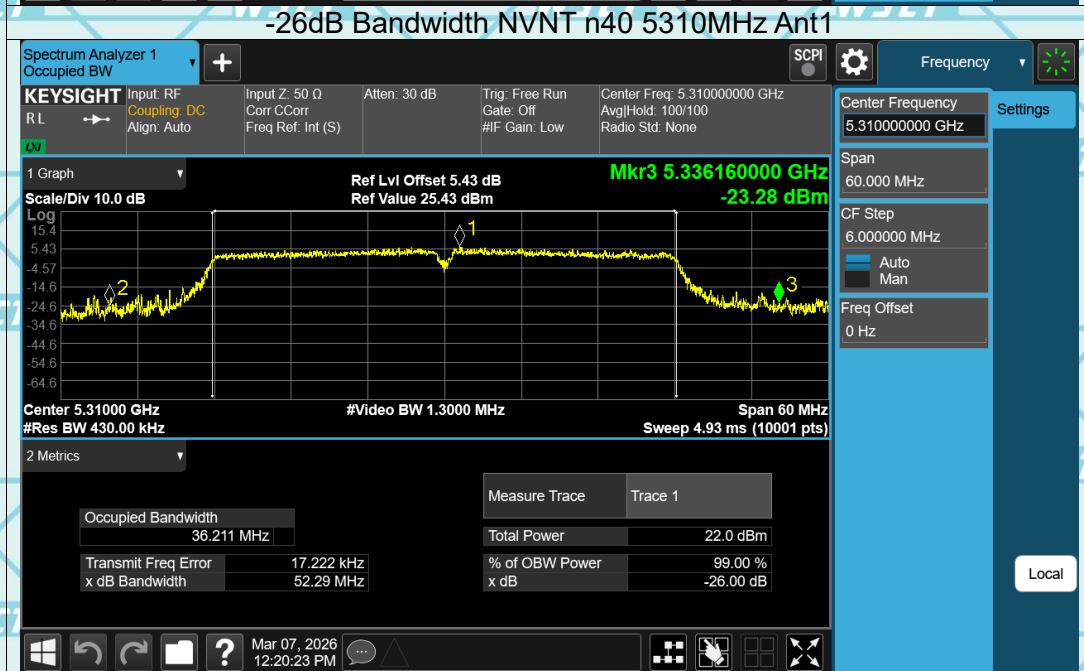
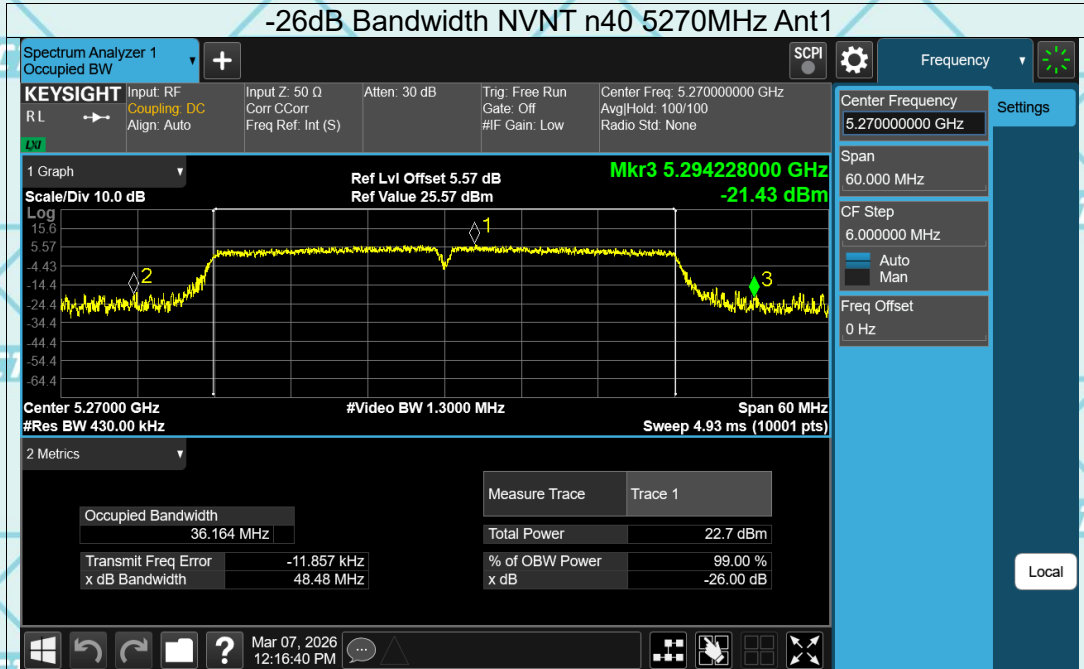


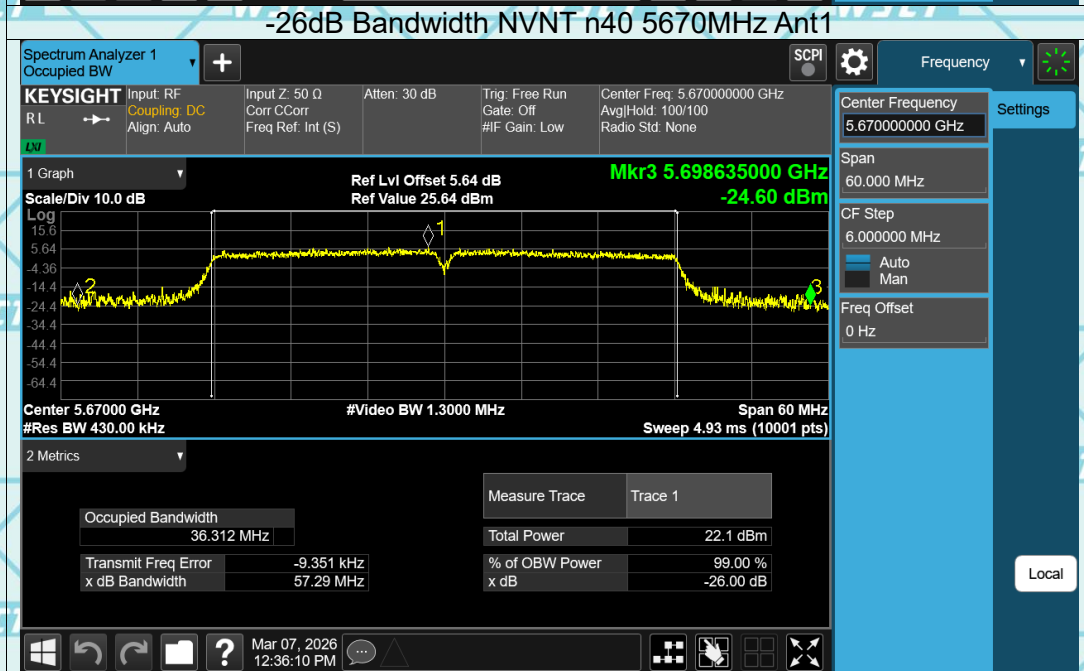
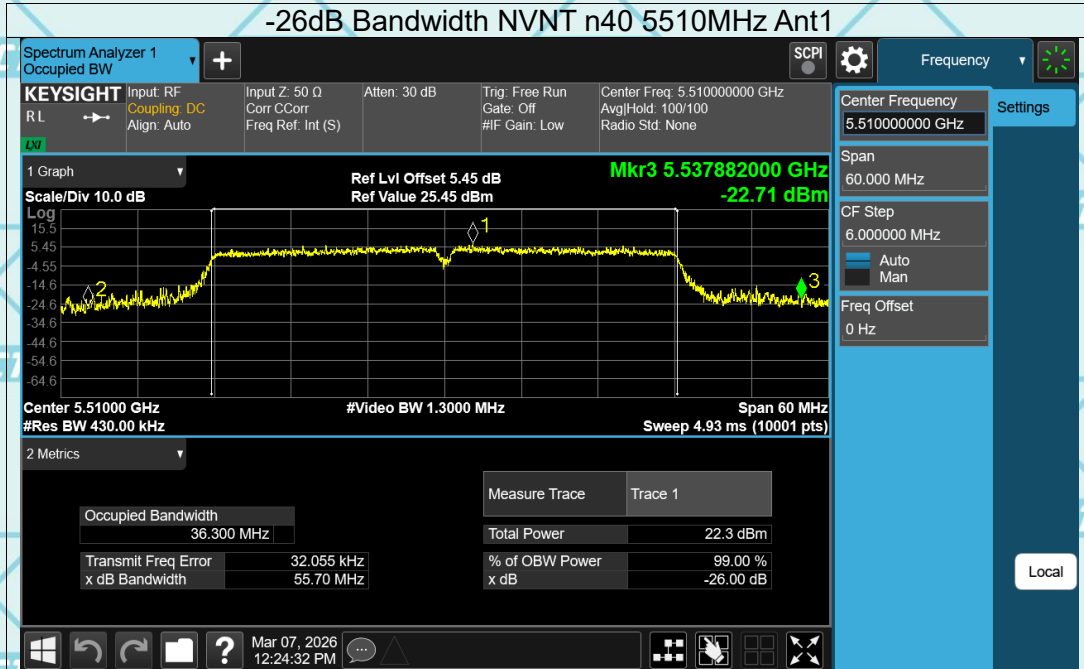


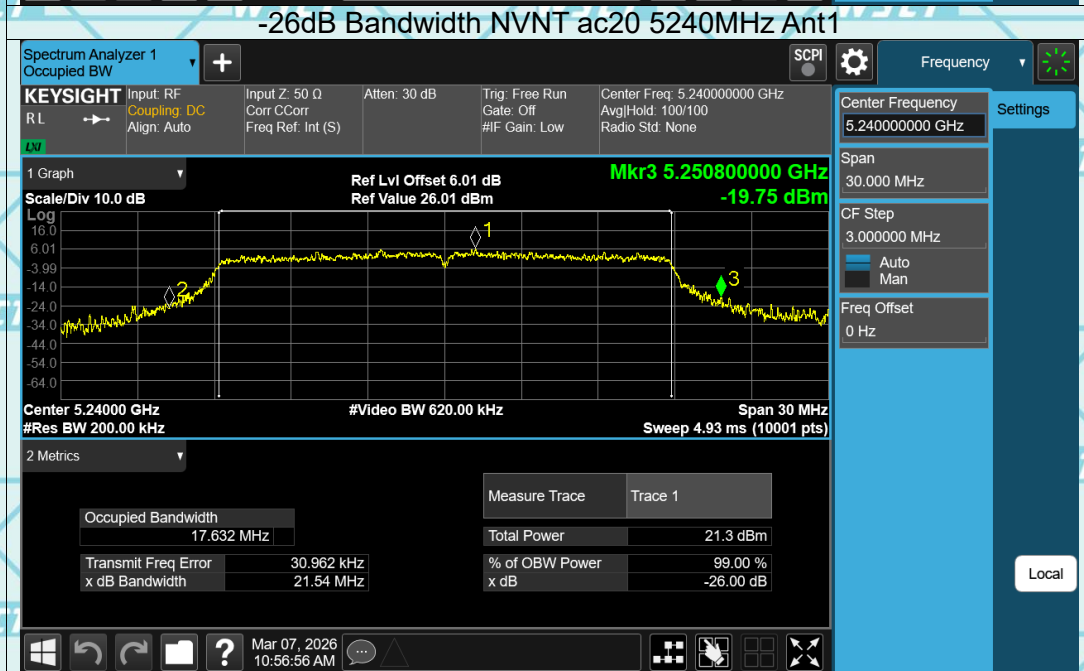
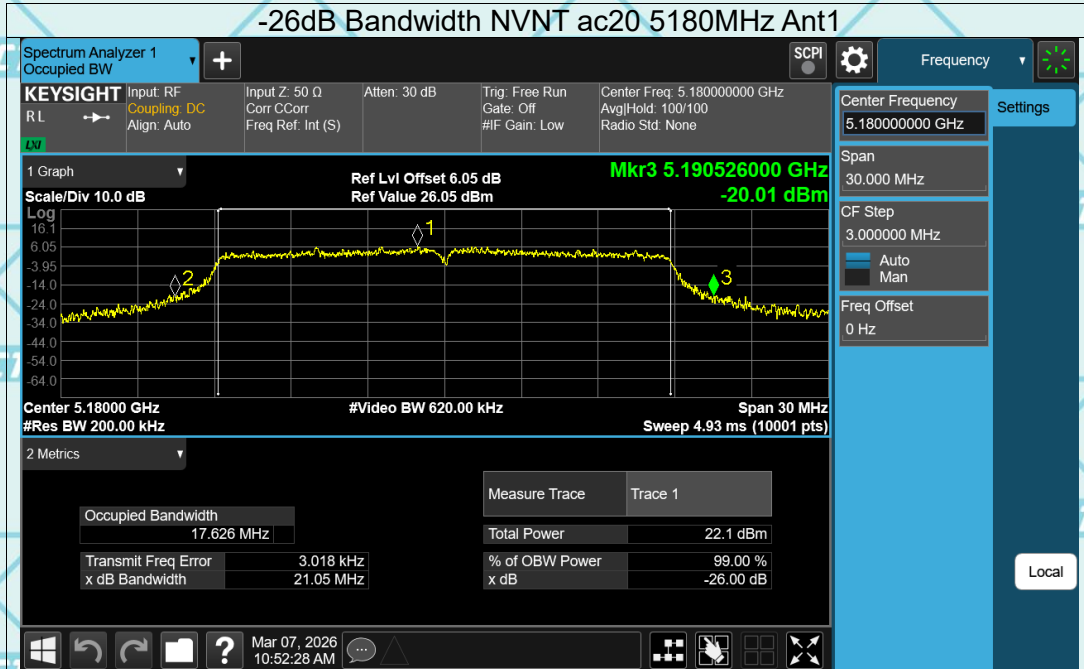


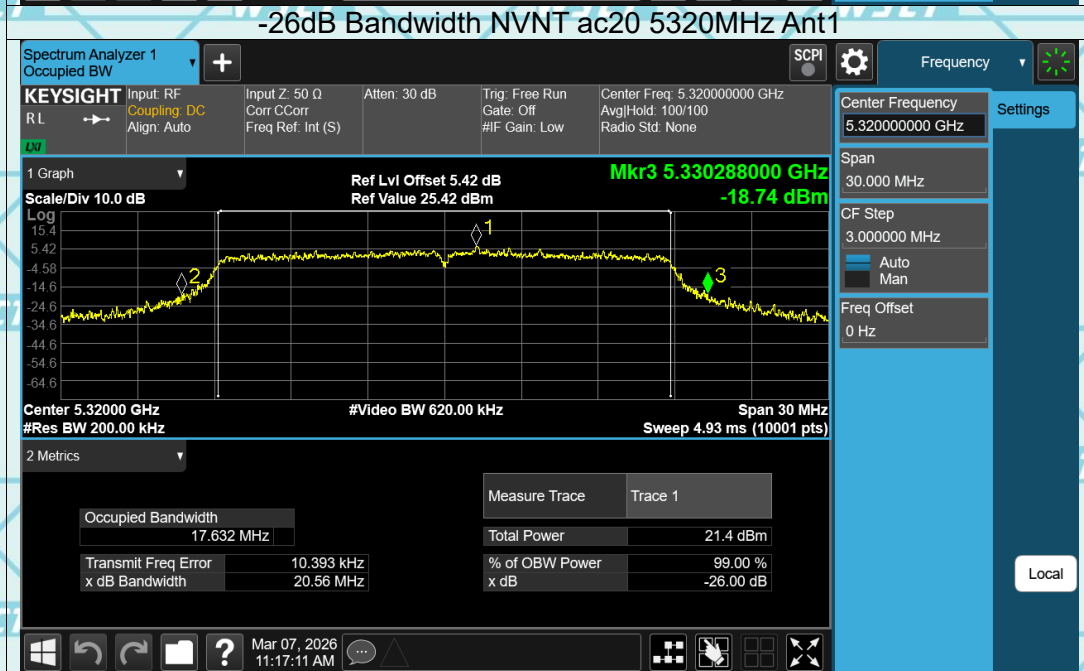
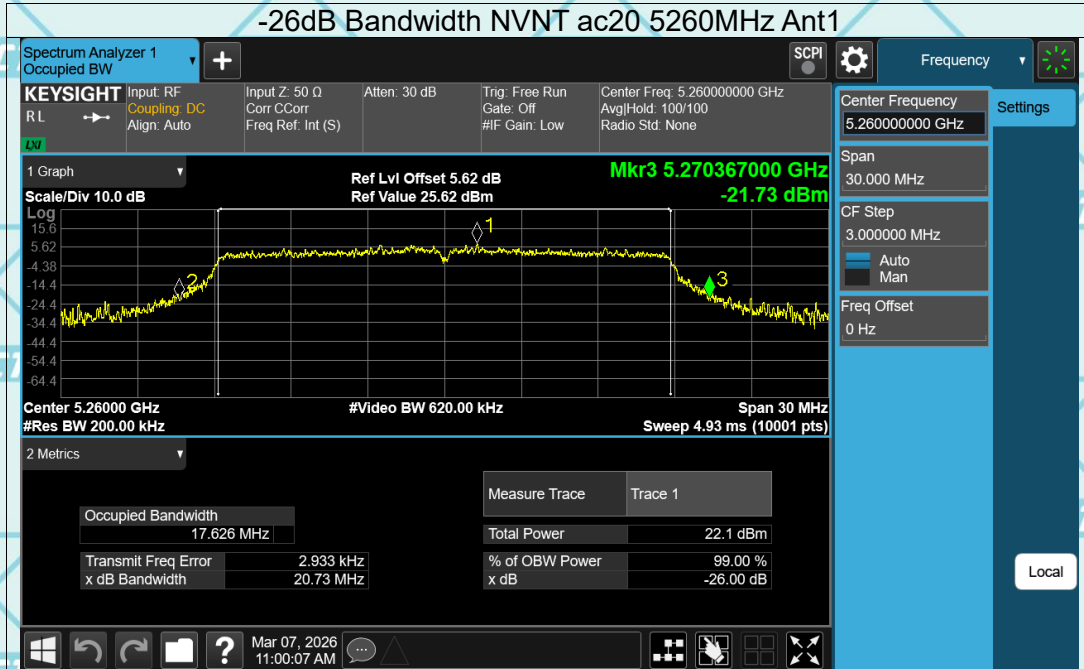


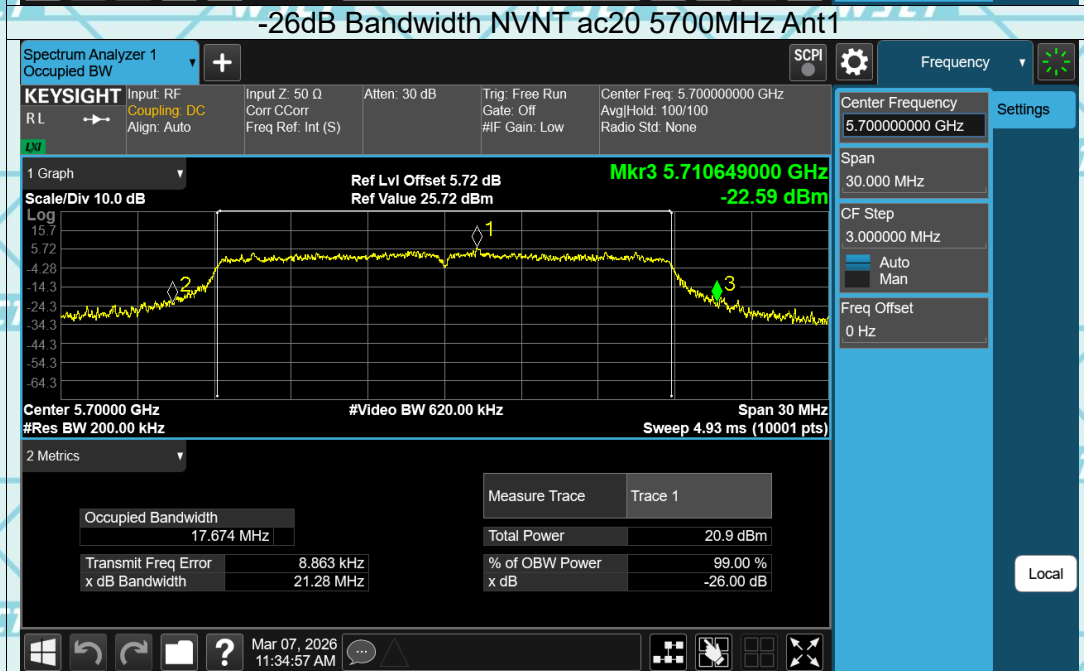
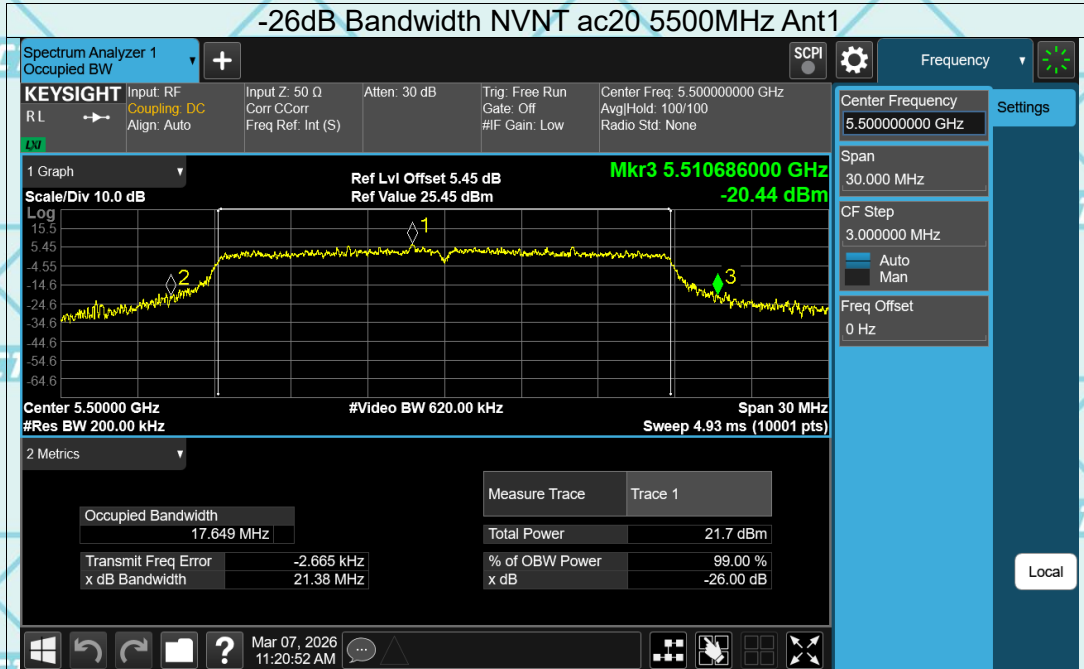


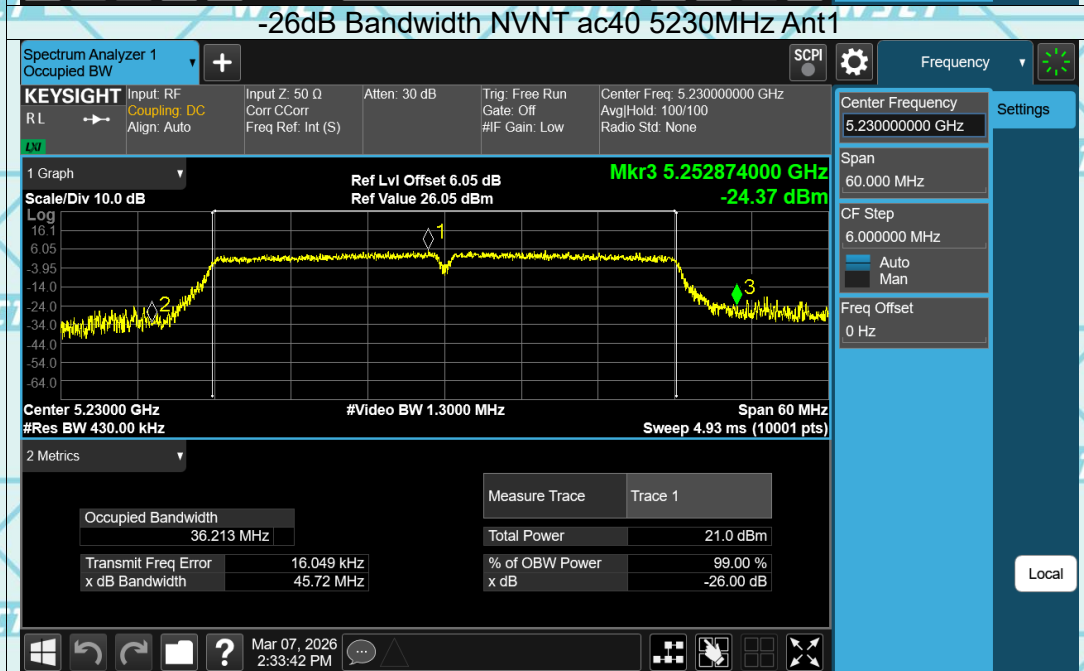
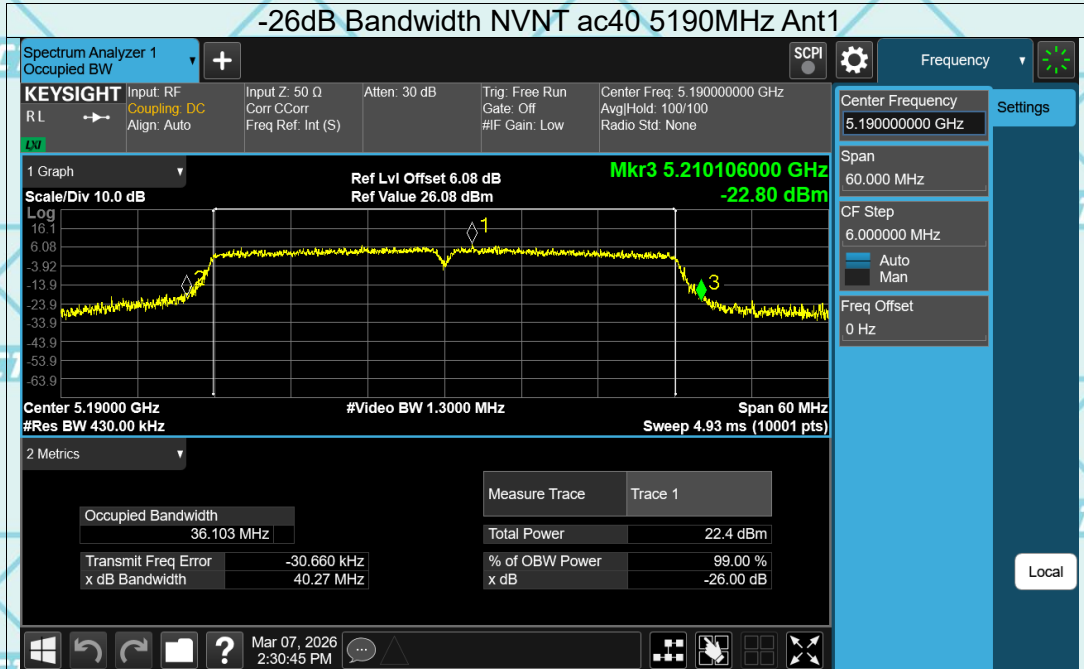


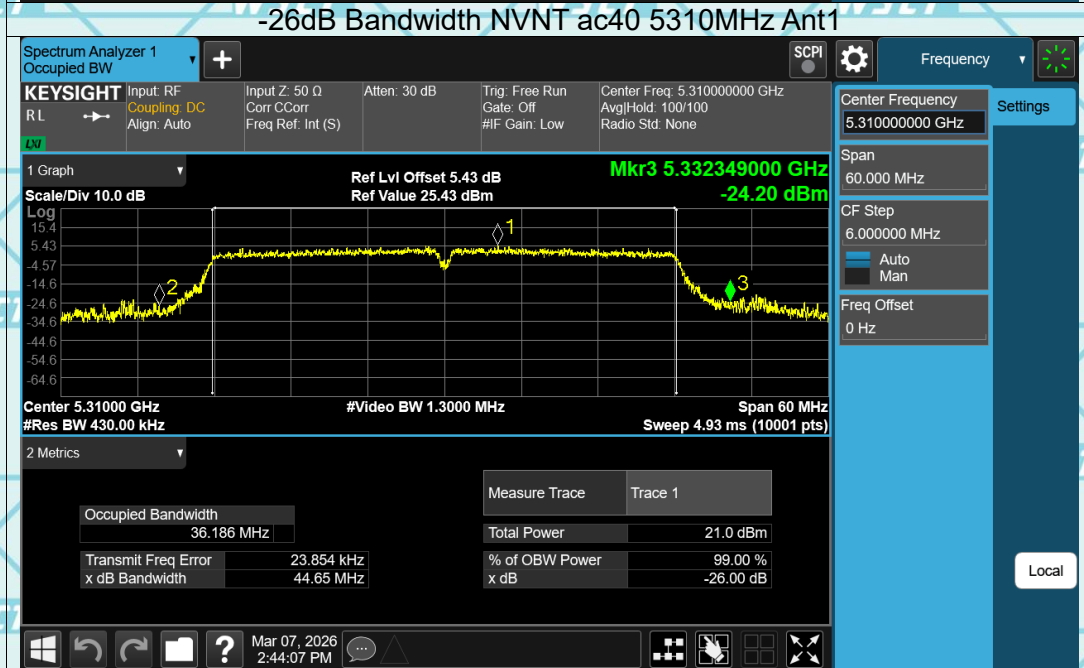
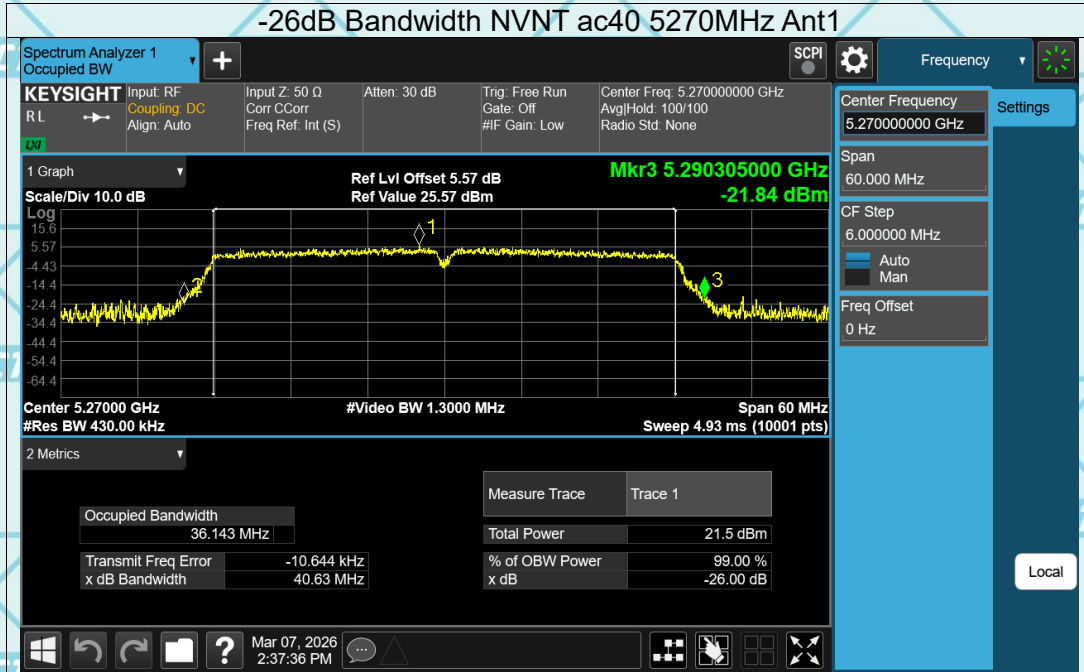


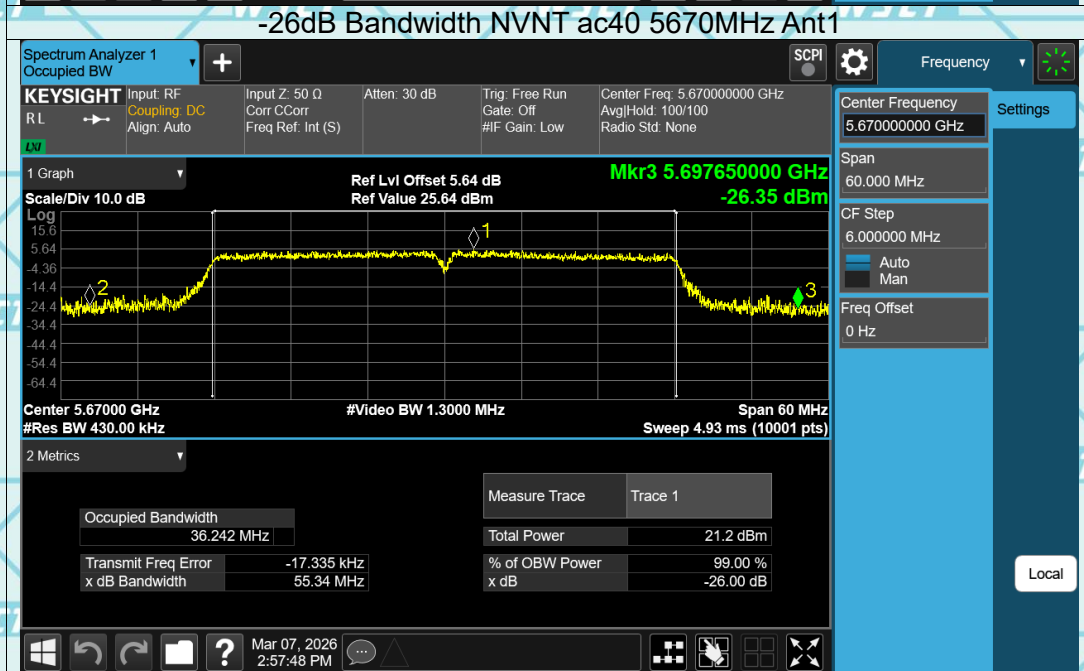
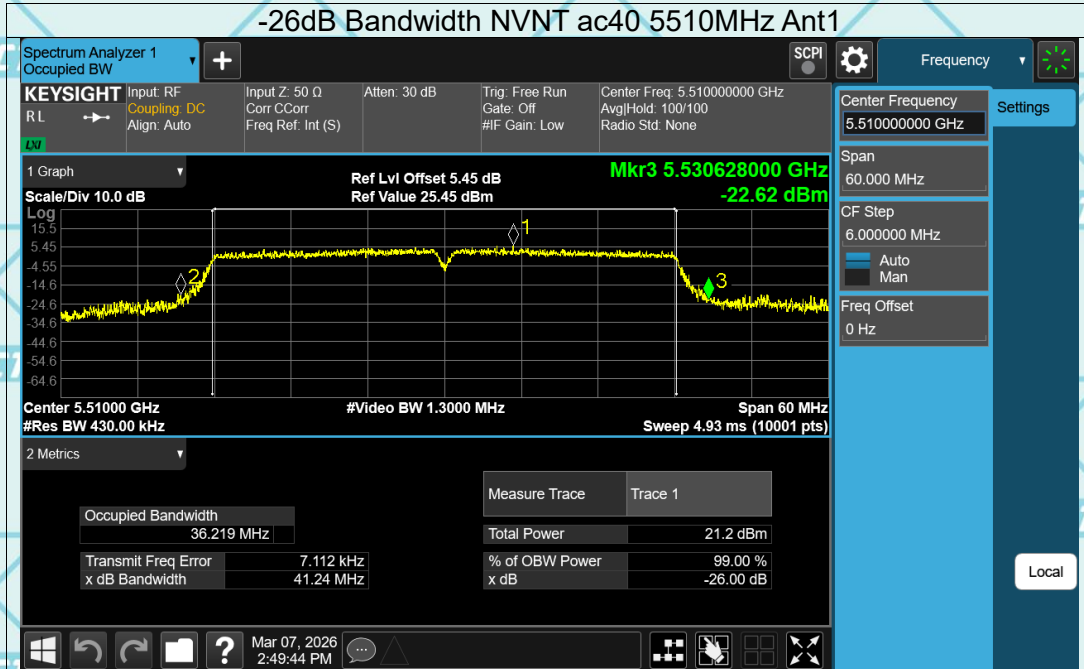


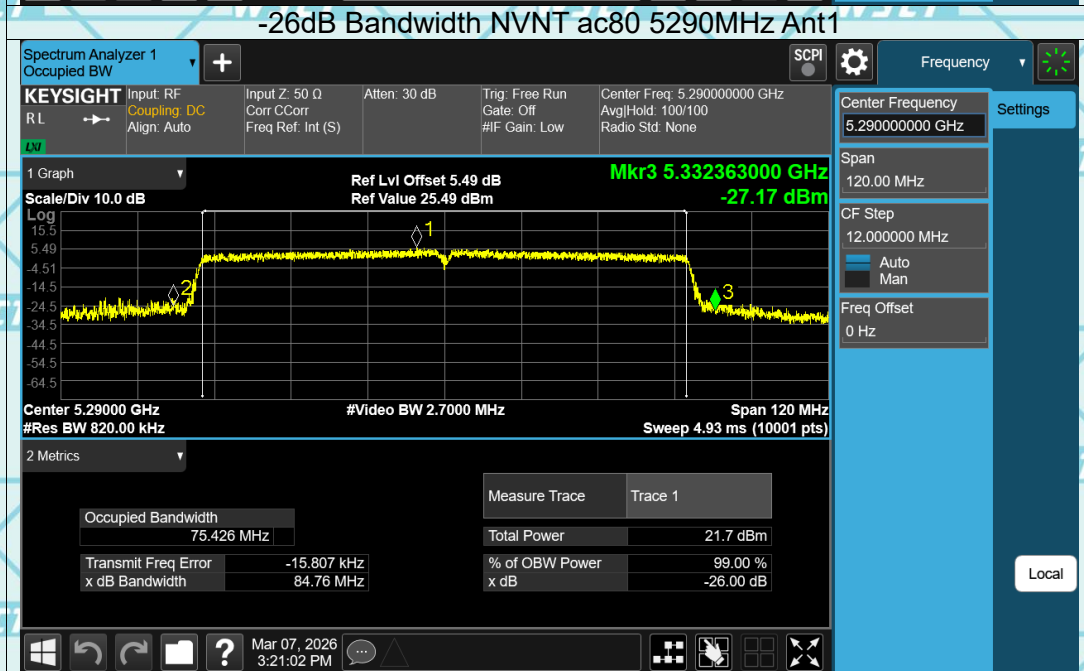
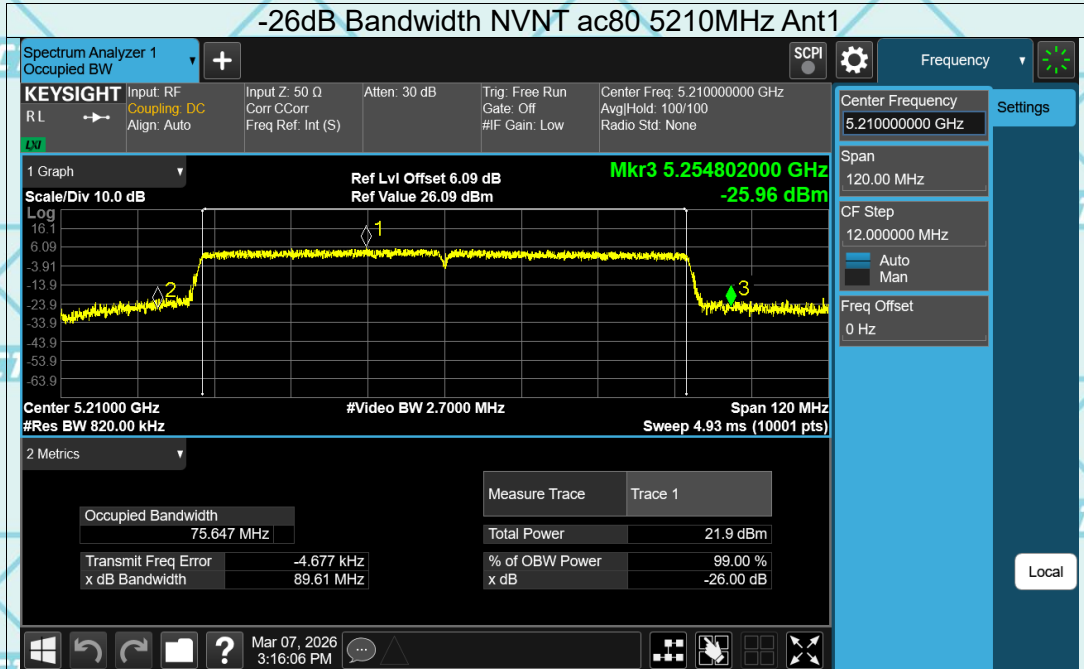


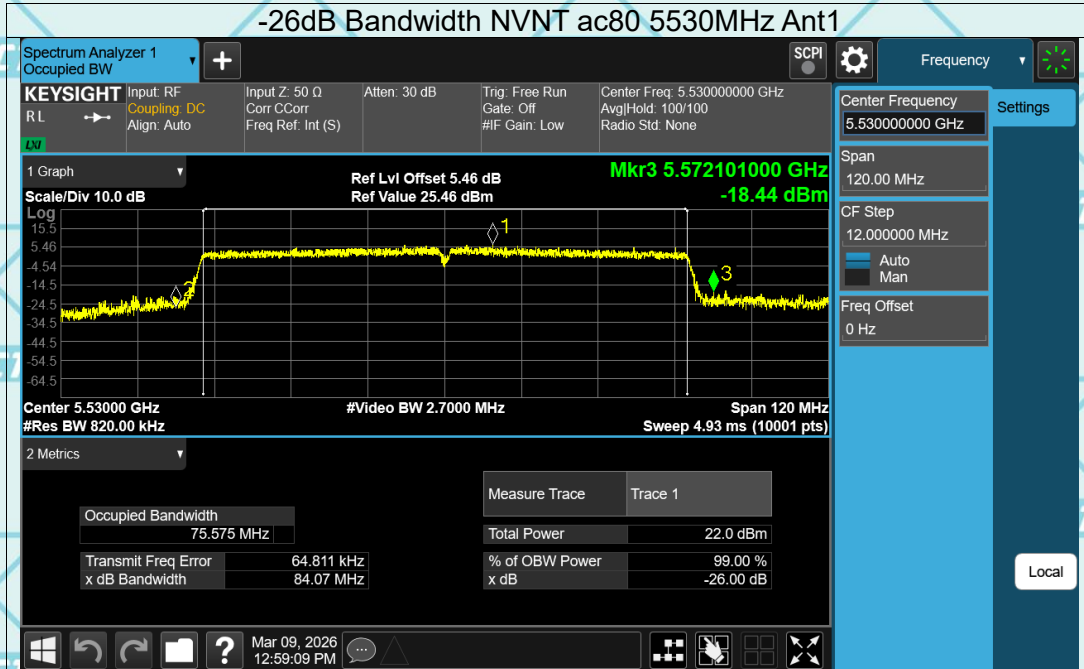








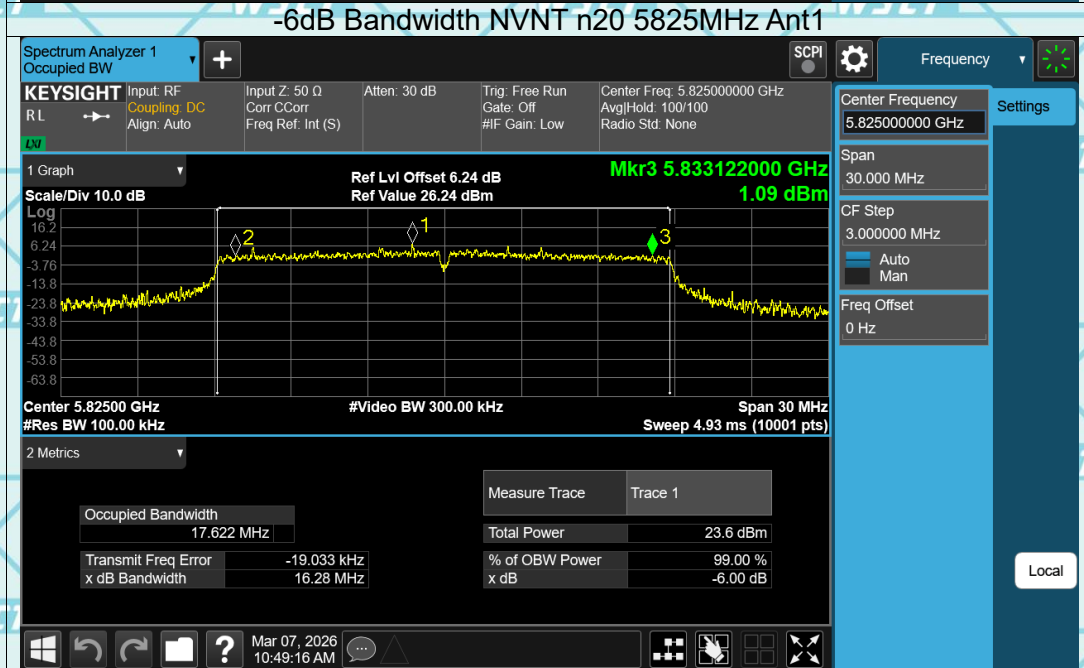
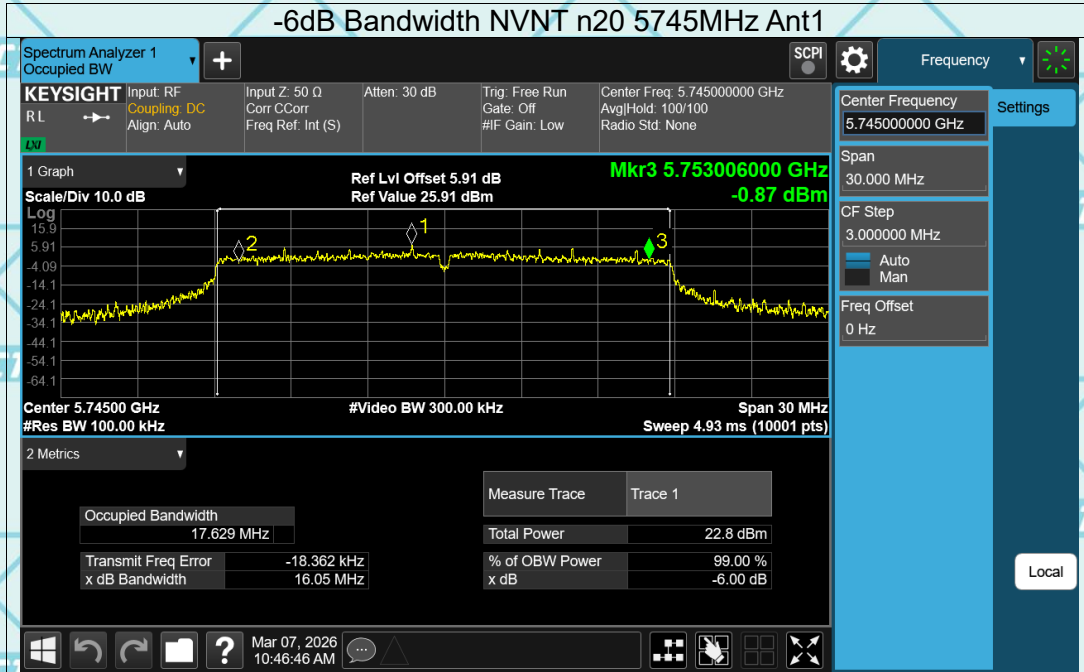


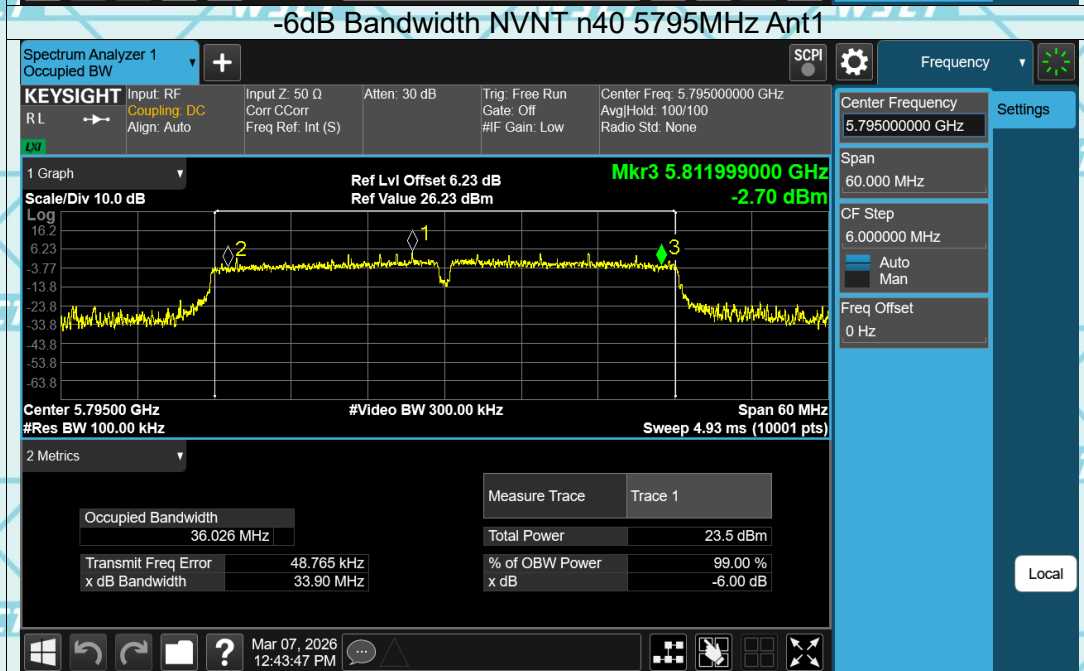
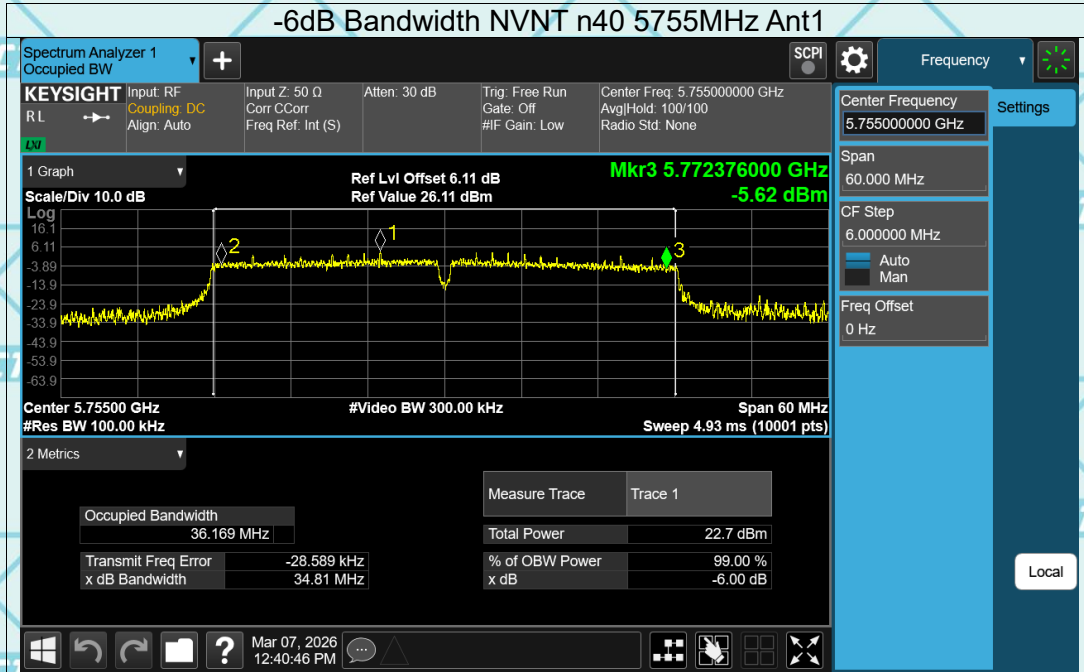


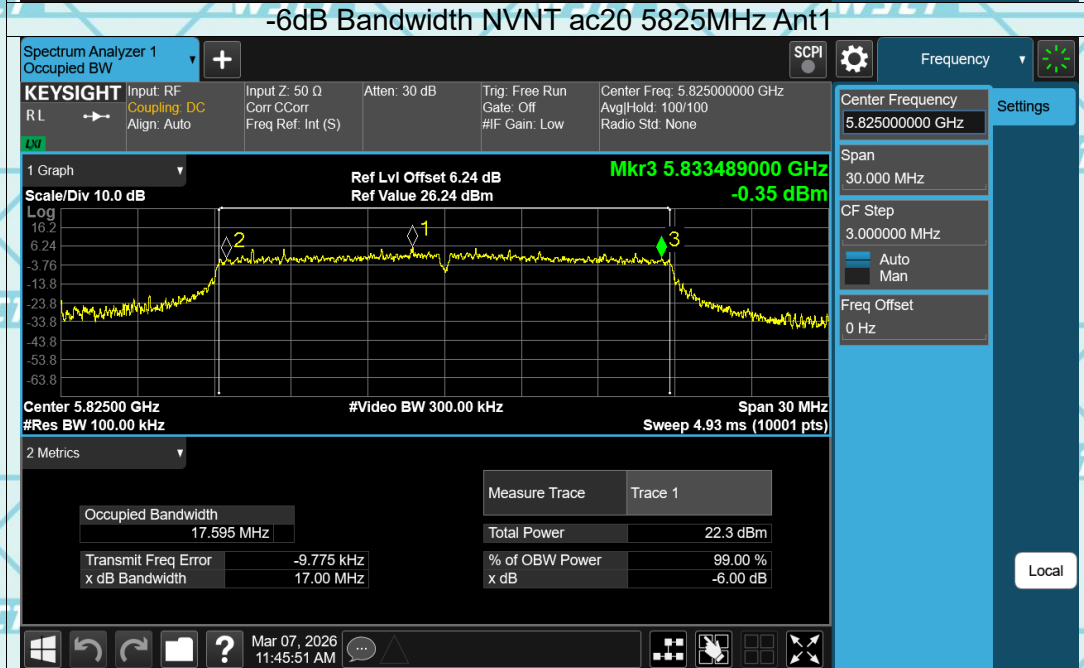
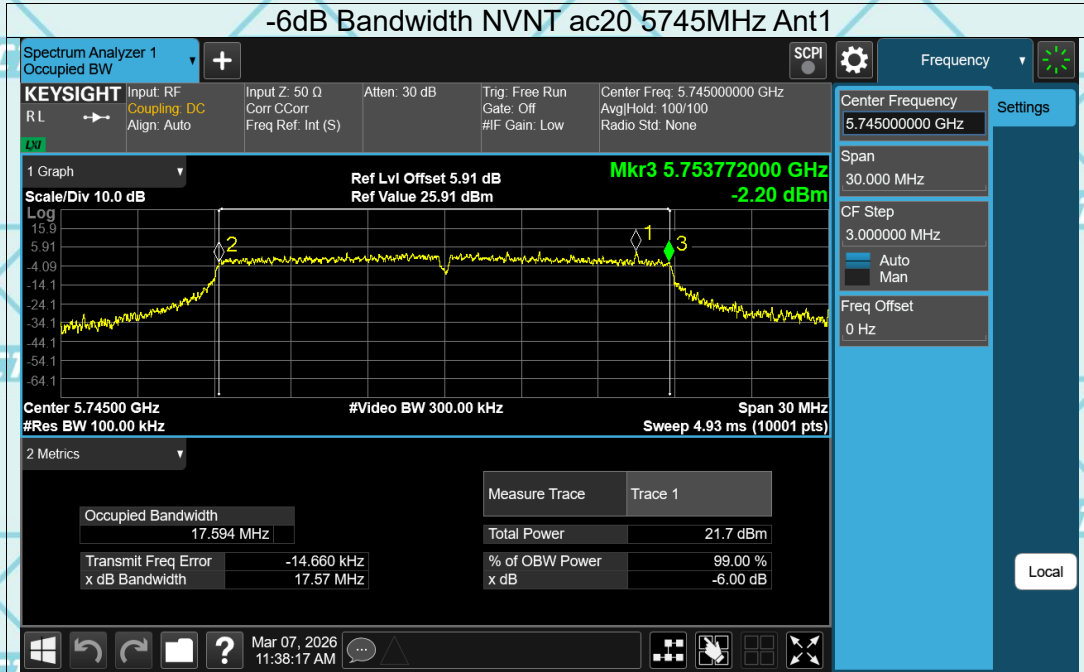
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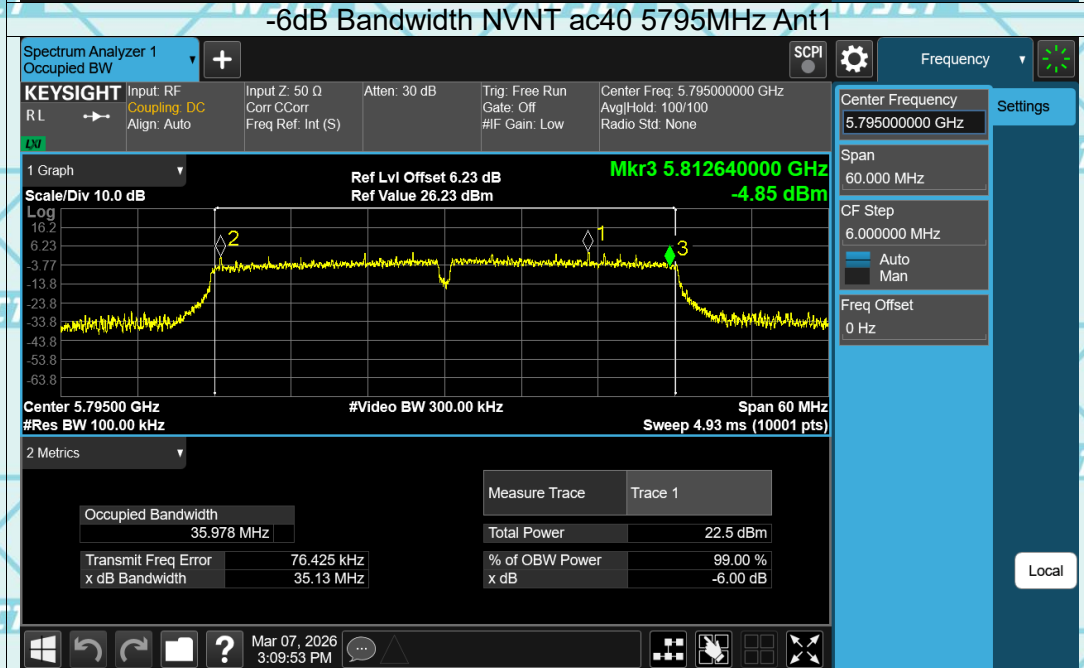
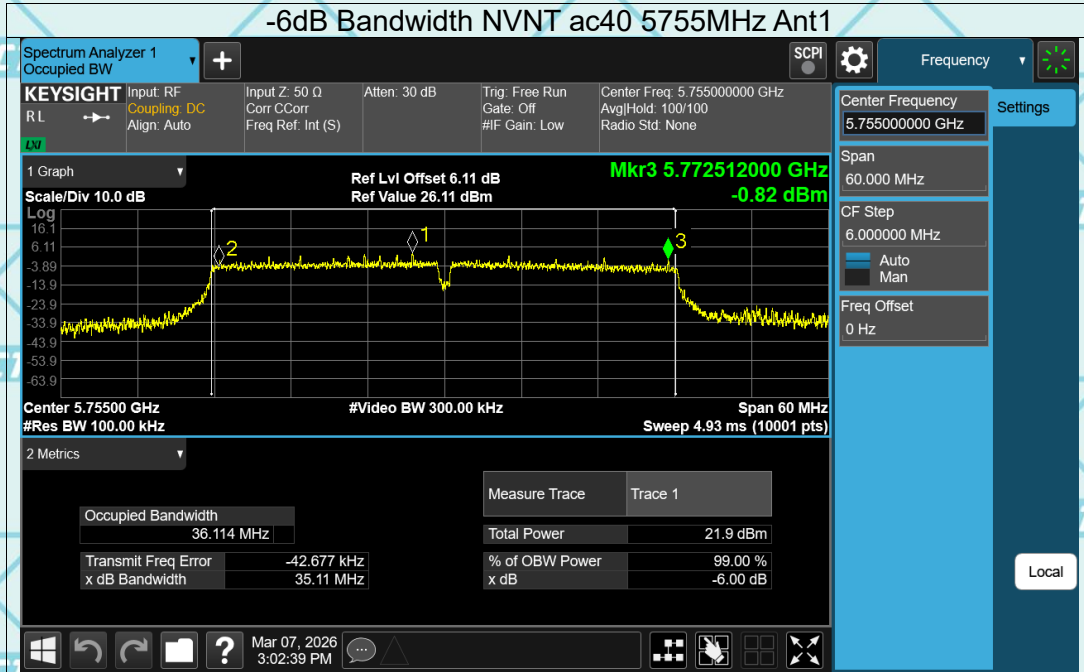
-6dB&99% Bandwidth

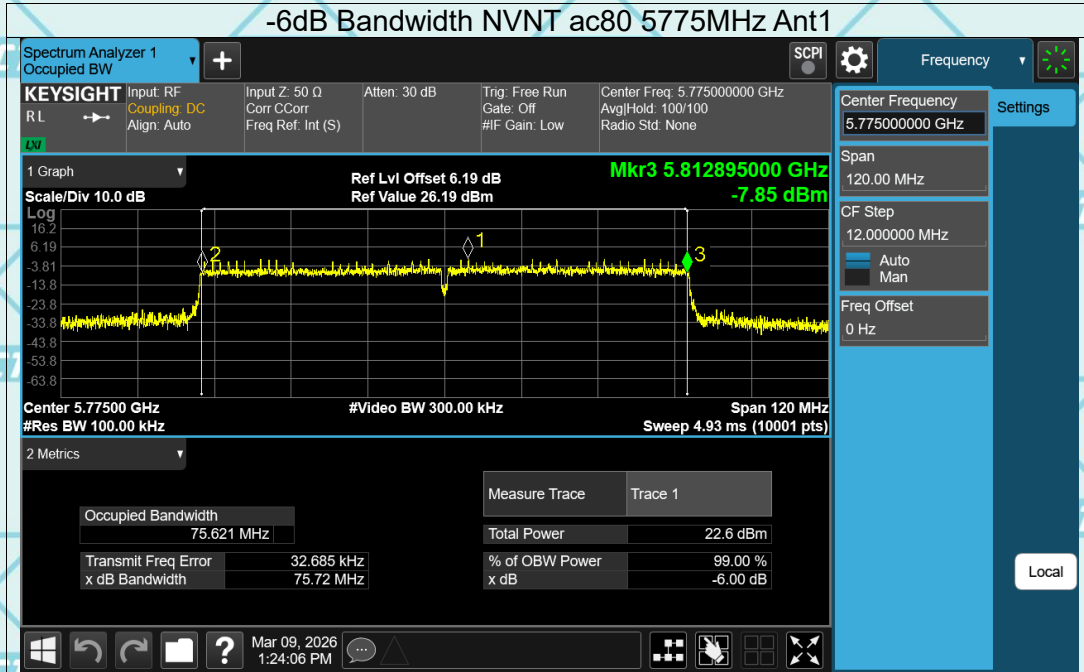












7.6 MAXIMUM CONDUCTED OUTPUT POWER

Product	: EUT-Sample	Test Mode	: See section 3.4
Test Item	: Maximum Conducted Output Power	Temperature	: 25 °C
Test Voltage	: DC 3.92V	Humidity	: 56%RH
Test Result	: PASS		

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Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	14.58	0	14.58	24	Pass
a	5240	13.36	0	13.36	24	Pass
a	5260	13.42	0	13.42	24	Pass
a	5320	13.35	0	13.35	24	Pass
a	5500	13.48	0	13.48	24	Pass
a	5700	12.57	0	12.57	24	Pass
a	5745	13.21	0	13.21	30	Pass
a	5825	14.32	0	14.32	30	Pass
n20	5180	15.92	0	15.92	24	Pass
n20	5240	15.17	0	15.17	24	Pass
n20	5260	15.46	0	15.46	24	Pass
n20	5320	15.26	0	15.26	24	Pass
n20	5500	15.82	0	15.82	24	Pass
n20	5700	15.1	0	15.1	24	Pass
n20	5745	15.23	0	15.23	30	Pass
n20	5825	16.54	0	16.54	30	Pass
n40	5190	14.96	0	14.96	24	Pass
n40	5230	13.12	0	13.12	24	Pass
n40	5270	14.88	0	14.88	24	Pass
n40	5310	13.93	0	13.93	24	Pass
n40	5510	13.94	0	13.94	24	Pass
n40	5670	14.23	0	14.23	24	Pass
n40	5755	14.45	0	14.45	30	Pass
n40	5795	15.03	0	15.03	30	Pass
ac20	5180	15.06	0	15.06	24	Pass
ac20	5240	14.05	0	14.05	24	Pass
ac20	5260	15.42	0	15.42	24	Pass
ac20	5320	14.06	0	14.06	24	Pass
ac20	5500	14.52	0	14.52	24	Pass
ac20	5700	14.43	0	14.43	24	Pass
ac20	5745	14.16	0	14.16	30	Pass
ac20	5825	15.19	0	15.19	30	Pass
ac40	5190	13.85	0	13.85	24	Pass
ac40	5230	12.86	0	12.86	24	Pass
ac40	5270	13.56	0	13.56	24	Pass
ac40	5310	13.4	0	13.4	24	Pass
ac40	5510	13.53	0	13.53	24	Pass
ac40	5670	13.4	0	13.4	24	Pass
ac40	5755	13.65	0	13.65	30	Pass
ac40	5795	13.95	0	13.95	30	Pass
ac80	5210	12.26	0	12.26	24	Pass
ac80	5290	11.36	0	11.36	24	Pass
ac80	5530	12.42	0	12.42	24	Pass
ac80	5610	11.77	0	11.77	24	Pass
ac80	5775	11.92	0	11.92	30	Pass

