

TEST REPORT

Product Name : Smart Identification Terminal
Model Number : SpeedPalm-V5L
FCC ID : 2AJ9T-10201

Prepared for : ZKTECO CO., LTD.
Address : No.32, Pingshan Industrial Avenue, Tangxia Town,
Dongguan City, Guangdong Province, China 523728

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Report Number : ENS2505260366W01103R
Date(s) of Tests : May 28, 2025 to August 28, 2025
Date of issue : September 1, 2025

1 TEST RESULT CERTIFICATION

Applicant : ZKTECO CO., LTD.
Address : No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City, Guangdong Province, China 523728
Manufacturer : ZKTECO CO., LTD.
Address : No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City, Guangdong Province, China 523728
EUT : Smart Identification Terminal
Model Name : SpeedPalm-V5L
Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the above table standards requirement.

The test results of this report relate only to the tested sample identified in this report.

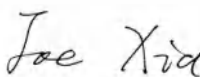
Date of Test : May 28, 2025 to August 28, 2025

Prepared by :



Una Yu/Editor

Reviewer :



Joe Xia /Supervisor

Approve & Authorized Signer :



Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
V1.0	ENS2505260366W01103R	/	Original Report



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2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product	Smart Identification Terminal
Model Number	SpeedPalm-V5L
Wifi Type	UNII-1: 5150MHz-5250MHz Band UNII-2A: 5250MHz-5350MHz Band UNII-2C: 5470MHz-5725MHz Band UNII-3: 5725MHz-5850MHz Band
WLAN Supported	IEEE 802.11a IEEE 802.11n(20MHz channel bandwidth) IEEE 802.11n(40MHz channel bandwidth) IEEE 802.11ac(20MHz channel bandwidth) IEEE 802.11ac(40MHz channel bandwidth) IEEE 802.11ac(80MHz channel bandwidth)
Modulation	OFDM
Frequency Range:	UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20) 5190-5230MHz for 802.11n(HT40)/ac(VHT40) 5210MHz for 802.11ac(VHT80)
	UNII-2A: 5250MHz-5350MHz Band 5260-5320MHz for 802.11a/n(HT20)/ac(VHT20) 5270-5310MHz for 802.11n(HT40)/ac(VHT40) 5290MHz for 802.11ac(VHT80)
	UNII-2C: 5470MHz-5725MHz Band 5500-5700MHz for 802.11a/n(HT20)/ac(VHT20) 5510-5670MHz for 802.11n(HT40)/ac(VHT40) 5530-5610MHz for 802.11ac(VHT80)
	UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20) 5755-5795MHz for 802.11n(HT40)/ac(VHT40) 5775MHz for 802.11ac(VHT80);
TPC Function	<input type="checkbox"/> Applicable <input checked="" type="checkbox"/> Not Applicable
Antenna Type	FPC Antenna
Antenna Gain	Ant1:3.82 dBi Note: The antenna information provided by the manufacturer will have a certain impact on the test results.
Power Supply	DC 12V from adapter
Adapter	MODEL:ADS-40SI-12-3 12036E INPUT: AC100-240V, 50Hz/60Hz,1.0A max. OUTPUT:12.0V,3A,.36.0W
Temperature Range	0°C ~ +45°C

Note: for more details, please refer to the User's manual of the EUT.

3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.407 (a) 15.407 (e)	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (a)	Peak Power Spectral Density	PASS	
15.407 (b)	Radiated Spurious Emission	PASS	
15.407 (b)(6) 15.207	Power Line Conducted Emission	PASS	
15.407(a) 15.203	Antenna Application	PASS	
NOTE1:N/A (Not Applicable)			
NOTE2:According to FCC OET KDB 789033, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AJ9T-10201 filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 15, Subpart E

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2025/5/9
AMN	Schwarzbeck	NNLK 8129	8129203	2025/5/9
Pulse Limiter	Schwarzbeck	VTSD 9561 F-B	00955	2025/5/9
High Voltage Probe	SCHWARZBECK	TK9422	9422-130	2025/5/9
AMN	Rohde & Schwarz	ESH3-Z5	100191	2025/5/9

4.2.2 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	2025/5/9
Pre-Amplifier	HP	8447F	2944A07999	2025/5/9
Bilog Antenna	Schwarzbeck	VULB9163	141	2024/6/15
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1177	2025/5/17
Horn Antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13
Cable	Schwarzbeck	AK9513	ACRX1	2025/5/9
Cable	Rosenberger	N/A	FP2RX2	2025/5/9
Cable	Schwarzbeck	AK9513	CRPX1	2025/5/9
Cable	Schwarzbeck	AK9513	CRRX2	2025/5/9

4.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.
Signal Analyzer	Agilent	N9010A	MY53470879	2025/5/10
Vector Signal Generater	Agilent	N5182B	MY53050878	2025/5/10
Analog Signal Generator	Agilent	N5171B	MY53050553	2025/5/10
RF Control Unit(Power Meter)	Tonscend	JS0806-2	\	2025/5/10
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2025/5/10

Remark: Each piece of equipment is scheduled for calibration once a year.

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

☒ Wifi 5G with U-NII - 1

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220		
40	5200	48	5240		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230		

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	N/A	N/A	N/A	N/A

☒ Wifi 5G with U-NII -2A

Frequency and Channel list 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

☒ Wifi 5G with U-NII -2C

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630		

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	140	5700

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	110	5550	134	5670

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530			122	5610

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : **Accredited by CNAS**
The Certificate Registration Number is L2291
The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC
Designation Number: CN1204
Test Firm Registration Number: 882943

Accredited by A2LA
The Certificate Number is 4321.01

Accredited by Industry Canada
The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.
Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen,
Guangdong, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

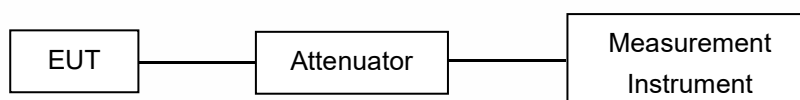
Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%

7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

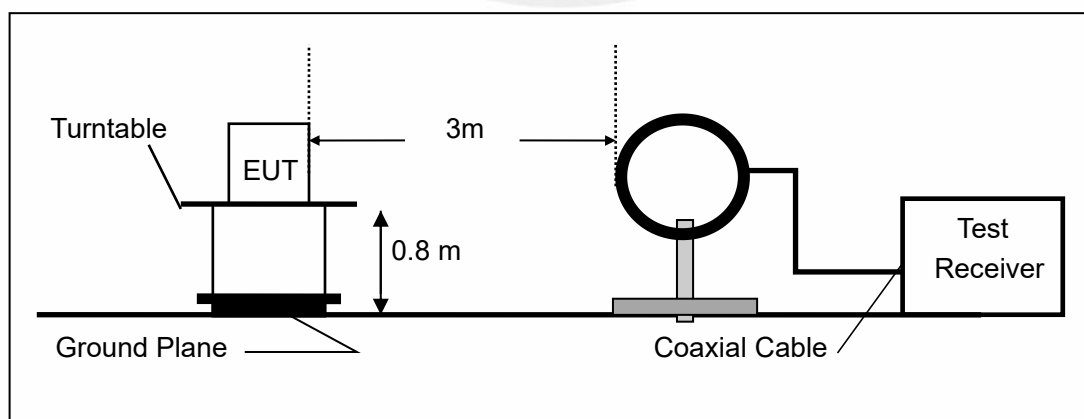
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

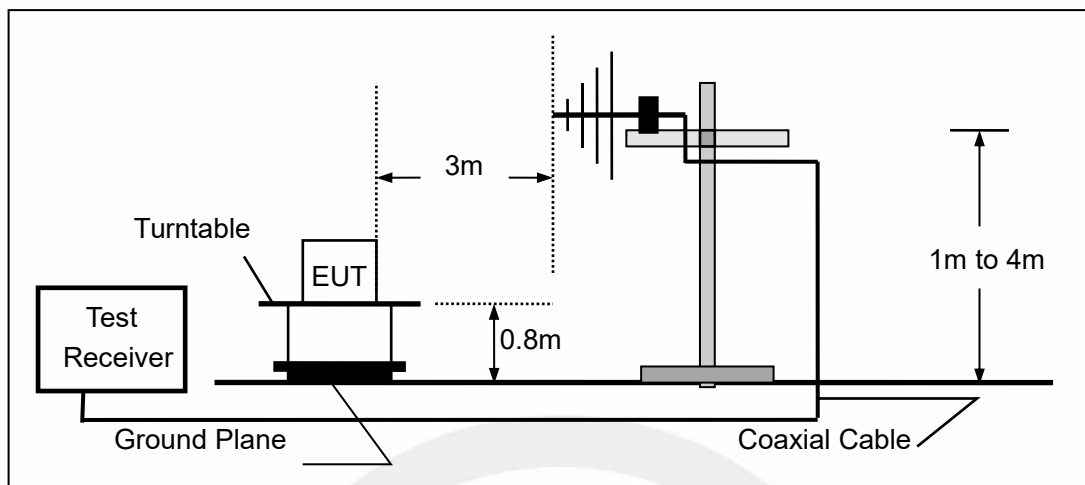
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

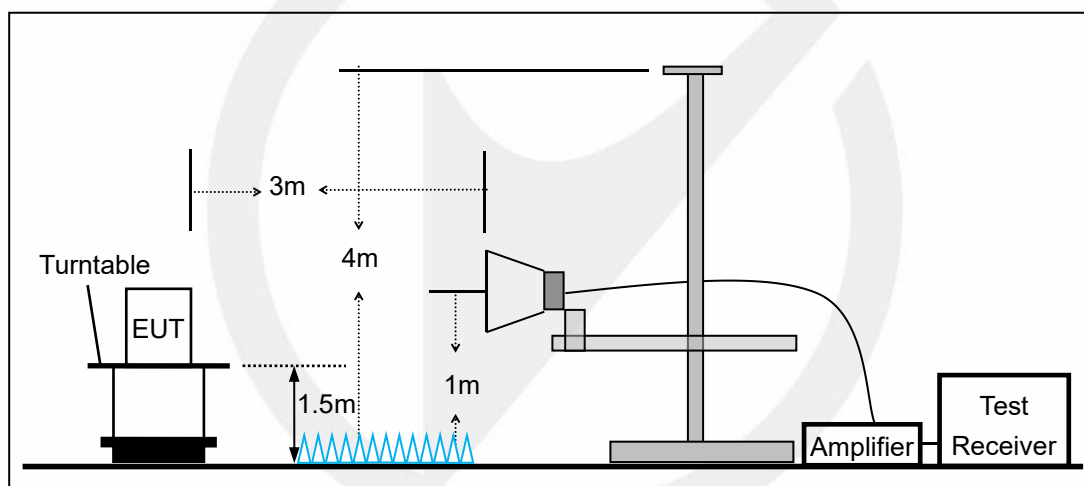
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

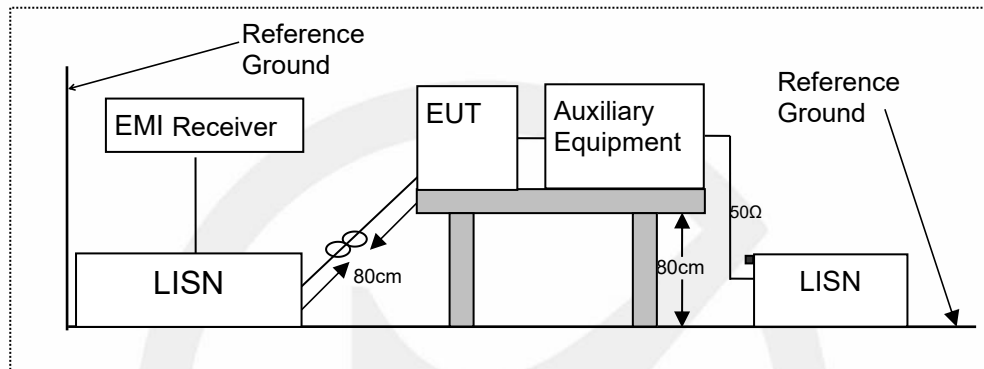


7.3 CONDUCTED EMISSION TEST SETUP

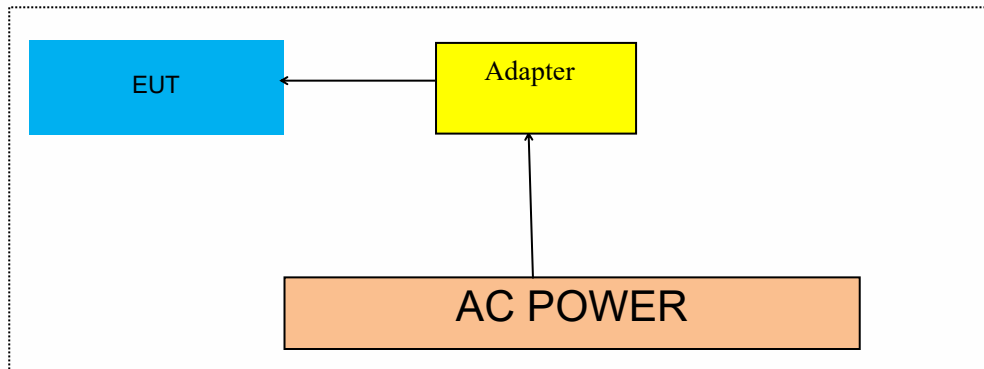
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

Notes:

- 1.All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2.Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 BANDWIDTH MEASUREMENT

8.1.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to FCC Part 15.407(e) for UNII Band III
According to 789033 D02 Section II(C)
According to 789033 D02 Section II(D)

8.1.2 Conformance Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.1.4 Test Procedure

According to 789033 D02 v02r01 section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v01r02 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot \text{RBW}$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

8.1.5 Test Results

Emission Bandwidth

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.680	5168.880	5192.560	---	---
11A	Ant1	5200	26.120	5186.520	5212.640	---	---
11A	Ant1	5240	22.160	5228.840	5251.000	---	---
11A	Ant1	5260	21.280	5249.720	5271.000	---	---
11A	Ant1	5280	21.800	5268.920	5290.720	---	---
11A	Ant1	5320	26.240	5308.880	5335.120	---	---
11A	Ant1	5500	19.680	5490.200	5509.880	---	---
11A	Ant1	5580	19.480	5570.280	5589.760	---	---
11A	Ant1	5700	19.280	5690.240	5709.520	---	---
11A	Ant1	5745	19.920	5734.840	5754.760	---	---
11A	Ant1	5785	20.000	5774.960	5794.960	---	---
11A	Ant1	5825	19.320	5815.400	5834.720	---	---
11N20SISO	Ant1	5180	27.080	5166.560	5193.640	---	---
11N20SISO	Ant1	5200	30.440	5184.080	5214.520	---	---
11N20SISO	Ant1	5240	31.760	5221.080	5252.840	---	---
11N20SISO	Ant1	5260	29.520	5246.280	5275.800	---	---
11N20SISO	Ant1	5280	32.400	5263.000	5295.400	---	---
11N20SISO	Ant1	5320	32.600	5302.960	5335.560	---	---
11N20SISO	Ant1	5500	24.120	5487.160	5511.280	---	---
11N20SISO	Ant1	5580	23.600	5568.560	5592.160	---	---
11N20SISO	Ant1	5700	22.360	5689.440	5711.800	---	---
11N20SISO	Ant1	5745	25.360	5732.480	5757.840	---	---
11N20SISO	Ant1	5785	27.360	5770.520	5797.880	---	---
11N20SISO	Ant1	5825	28.600	5809.960	5838.560	---	---
11N40SISO	Ant1	5190	65.440	5156.080	5221.520	---	---
11N40SISO	Ant1	5230	75.600	5193.520	5269.120	---	---
11N40SISO	Ant1	5270	66.000	5236.320	5302.320	---	---
11N40SISO	Ant1	5310	66.240	5276.400	5342.640	---	---
11N40SISO	Ant1	5510	57.040	5478.160	5535.200	---	---
11N40SISO	Ant1	5550	55.120	5527.440	5582.560	---	---
11N40SISO	Ant1	5670	53.600	5642.000	5695.600	---	---
11N40SISO	Ant1	5755	56.400	5723.880	5780.280	---	---
11N40SISO	Ant1	5795	58.000	5762.040	5820.040	---	---
11AC20SISO	Ant1	5180	30.280	5164.840	5195.120	---	---
11AC20SISO	Ant1	5200	32.120	5186.200	5218.320	---	---
11AC20SISO	Ant1	5240	32.240	5222.720	5254.960	---	---
11AC20SISO	Ant1	5260	31.160	5244.800	5275.960	---	---
11AC20SISO	Ant1	5280	33.280	5264.840	5298.120	---	---
11AC20SISO	Ant1	5320	30.160	5305.400	5335.560	---	---
11AC20SISO	Ant1	5500	25.840	5488.080	5513.920	---	---
11AC20SISO	Ant1	5580	22.000	5568.640	5590.640	---	---
11AC20SISO	Ant1	5700	25.440	5687.920	5713.360	---	---
11AC20SISO	Ant1	5745	27.840	5733.120	5760.960	---	---
11AC20SISO	Ant1	5785	25.200	5771.800	5797.000	---	---
11AC20SISO	Ant1	5825	28.880	5810.480	5839.360	---	---
11AC40SISO	Ant1	5190	66.000	5156.560	5222.560	---	---
11AC40SISO	Ant1	5230	72.560	5191.760	5264.320	---	---
11AC40SISO	Ant1	5270	66.720	5236.640	5303.360	---	---
11AC40SISO	Ant1	5310	78.880	5270.240	5349.120	---	---
11AC40SISO	Ant1	5510	47.360	5487.600	5534.960	---	---
11AC40SISO	Ant1	5550	50.560	5523.040	5573.600	---	---
11AC40SISO	Ant1	5670	51.360	5639.920	5691.280	---	---
11AC40SISO	Ant1	5755	53.600	5729.000	5782.600	---	---
11AC40SISO	Ant1	5795	63.280	5759.560	5822.840	---	---
11AC80SISO	Ant1	5210	159.040	5130.160	5289.200	---	---

11AC80SISO	Ant1	5290	157.920	5211.920	5369.840	---	---
11AC80SISO	Ant1	5530	153.760	5453.040	5606.800	---	---
11AC80SISO	Ant1	5610	151.040	5531.920	5682.960	---	---
11AC80SISO	Ant1	5775	152.960	5696.920	5849.880	---	---



Occupied channel bandwidth

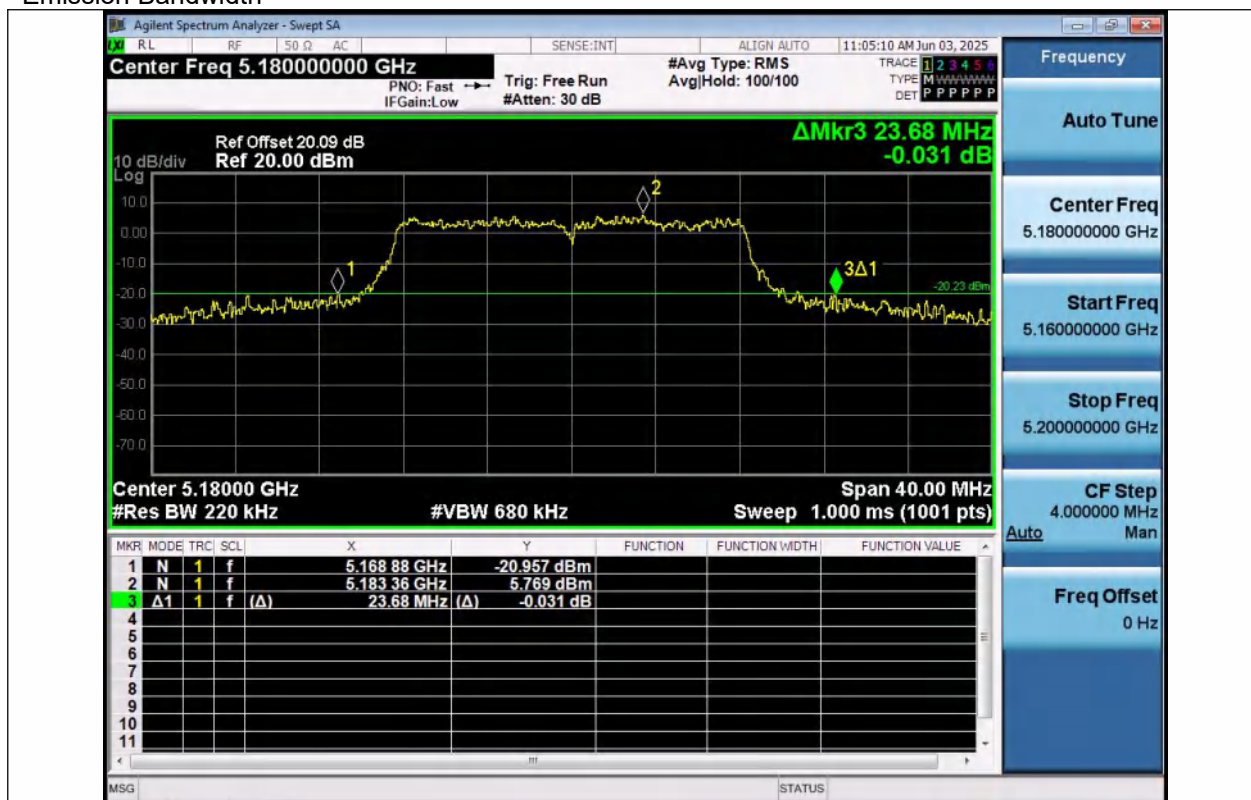
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.123	5171.4121	5188.5351	---	---
11A	Ant1	5200	17.172	5191.3726	5208.5446	---	---
11A	Ant1	5240	17.124	5231.4059	5248.5299	---	---
11A	Ant1	5260	17.092	5251.4467	5268.5387	---	---
11A	Ant1	5280	17.042	5271.4639	5288.5059	---	---
11A	Ant1	5320	17.176	5311.4004	5328.5764	---	---
11A	Ant1	5500	16.997	5491.4813	5508.4783	---	---
11A	Ant1	5580	16.965	5571.4918	5588.4568	---	---
11A	Ant1	5700	16.979	5691.5070	5708.4860	---	---
11A	Ant1	5745	17.013	5736.4733	5753.4863	---	---
11A	Ant1	5785	17.006	5776.4675	5793.4735	---	---
11A	Ant1	5825	17.053	5816.4486	5833.5016	---	---
11N20SISO	Ant1	5180	18.263	5170.8465	5189.1095	---	---
11N20SISO	Ant1	5200	18.412	5190.7165	5209.1285	---	---
11N20SISO	Ant1	5240	18.378	5230.7951	5249.1731	---	---
11N20SISO	Ant1	5260	18.345	5250.8094	5269.1544	---	---
11N20SISO	Ant1	5280	18.304	5270.8492	5289.1532	---	---
11N20SISO	Ant1	5320	18.371	5310.8186	5329.1896	---	---
11N20SISO	Ant1	5500	18.059	5490.9591	5509.0181	---	---
11N20SISO	Ant1	5580	18.070	5570.9577	5589.0277	---	---
11N20SISO	Ant1	5700	18.092	5690.9745	5709.0665	---	---
11N20SISO	Ant1	5745	18.178	5735.9315	5754.1095	---	---
11N20SISO	Ant1	5785	18.195	5775.8712	5794.0662	---	---
11N20SISO	Ant1	5825	18.262	5815.8375	5834.0995	---	---
11N40SISO	Ant1	5190	37.241	5171.2938	5208.5348	---	---
11N40SISO	Ant1	5230	37.263	5211.3813	5248.6443	---	---
11N40SISO	Ant1	5270	37.212	5251.4051	5288.6171	---	---
11N40SISO	Ant1	5310	37.264	5291.4078	5328.6718	---	---
11N40SISO	Ant1	5510	36.890	5491.6281	5528.5181	---	---
11N40SISO	Ant1	5550	36.820	5531.6211	5568.4411	---	---
11N40SISO	Ant1	5670	36.926	5651.4975	5688.4235	---	---
11N40SISO	Ant1	5755	36.934	5736.5659	5773.4999	---	---
11N40SISO	Ant1	5795	36.992	5776.4414	5813.4334	---	---
11AC20SISO	Ant1	5180	18.300	5170.8081	5189.1081	---	---
11AC20SISO	Ant1	5200	18.447	5190.7100	5209.1570	---	---
11AC20SISO	Ant1	5240	18.416	5230.7524	5249.1684	---	---
11AC20SISO	Ant1	5260	18.347	5250.8195	5269.1665	---	---
11AC20SISO	Ant1	5280	18.326	5270.8371	5289.1631	---	---
11AC20SISO	Ant1	5320	18.411	5310.7972	5329.2082	---	---
11AC20SISO	Ant1	5500	18.119	5490.9267	5509.0457	---	---
11AC20SISO	Ant1	5580	18.065	5570.9617	5589.0267	---	---
11AC20SISO	Ant1	5700	18.096	5690.9487	5709.0447	---	---
11AC20SISO	Ant1	5745	18.149	5735.9153	5754.0643	---	---
11AC20SISO	Ant1	5785	18.181	5775.8876	5794.0686	---	---
11AC20SISO	Ant1	5825	18.286	5815.8348	5834.1208	---	---
11AC40SISO	Ant1	5190	37.343	5171.3144	5208.6574	---	---
11AC40SISO	Ant1	5230	37.349	5211.3335	5248.6825	---	---
11AC40SISO	Ant1	5270	37.156	5251.4325	5288.5885	---	---
11AC40SISO	Ant1	5310	37.352	5291.3264	5328.6784	---	---
11AC40SISO	Ant1	5510	36.896	5491.5621	5528.4581	---	---
11AC40SISO	Ant1	5550	36.873	5531.6297	5568.5027	---	---
11AC40SISO	Ant1	5670	36.874	5651.5108	5688.3848	---	---
11AC40SISO	Ant1	5755	36.926	5736.5637	5773.4897	---	---
11AC40SISO	Ant1	5795	37.063	5776.4382	5813.5012	---	---
11AC80SISO	Ant1	5210	77.817	5170.9640	5248.7810	---	---
11AC80SISO	Ant1	5290	77.825	5251.1978	5329.0228	---	---
11AC80SISO	Ant1	5530	76.982	5491.5901	5568.5721	---	---

11AC80SISO	Ant1	5610	76.872	5571.5131	5648.3851	---	---
11AC80SISO	Ant1	5775	77.117	5736.4124	5813.5294	---	---

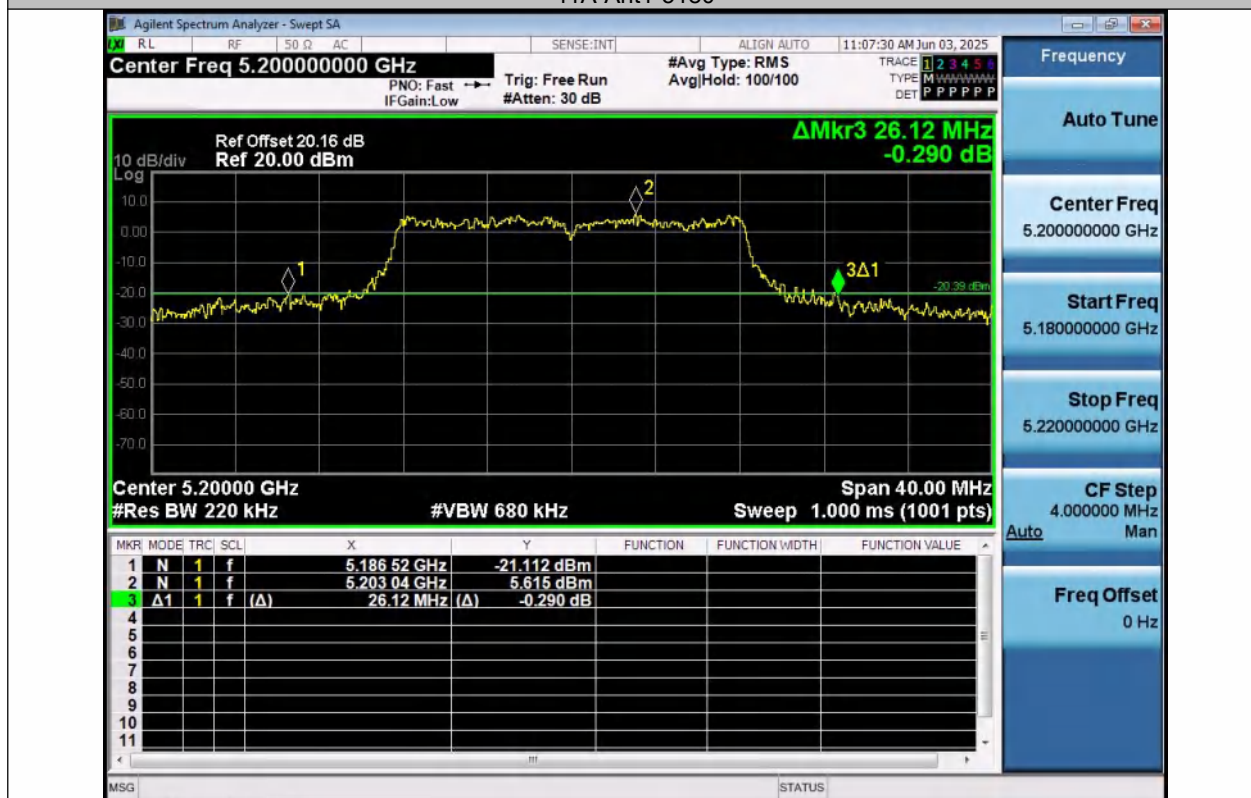
Min emission bandwidth

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.480	5736.720	5753.200	0.5	PASS
11A	Ant1	5785	16.440	5776.760	5793.200	0.5	PASS
11A	Ant1	5825	16.440	5816.760	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
11N20SISO	Ant1	5785	17.560	5776.200	5793.760	0.5	PASS
11N20SISO	Ant1	5825	17.560	5816.200	5833.760	0.5	PASS
11N40SISO	Ant1	5755	35.760	5737.080	5772.840	0.5	PASS
11N40SISO	Ant1	5795	35.680	5777.080	5812.760	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
11AC20SISO	Ant1	5785	17.600	5776.160	5793.760	0.5	PASS
11AC20SISO	Ant1	5825	17.560	5816.200	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	35.760	5737.080	5772.840	0.5	PASS
11AC40SISO	Ant1	5795	36.320	5776.840	5813.160	0.5	PASS
11AC80SISO	Ant1	5610	75.680	5572.400	5648.080	0.5	PASS
11AC80SISO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS

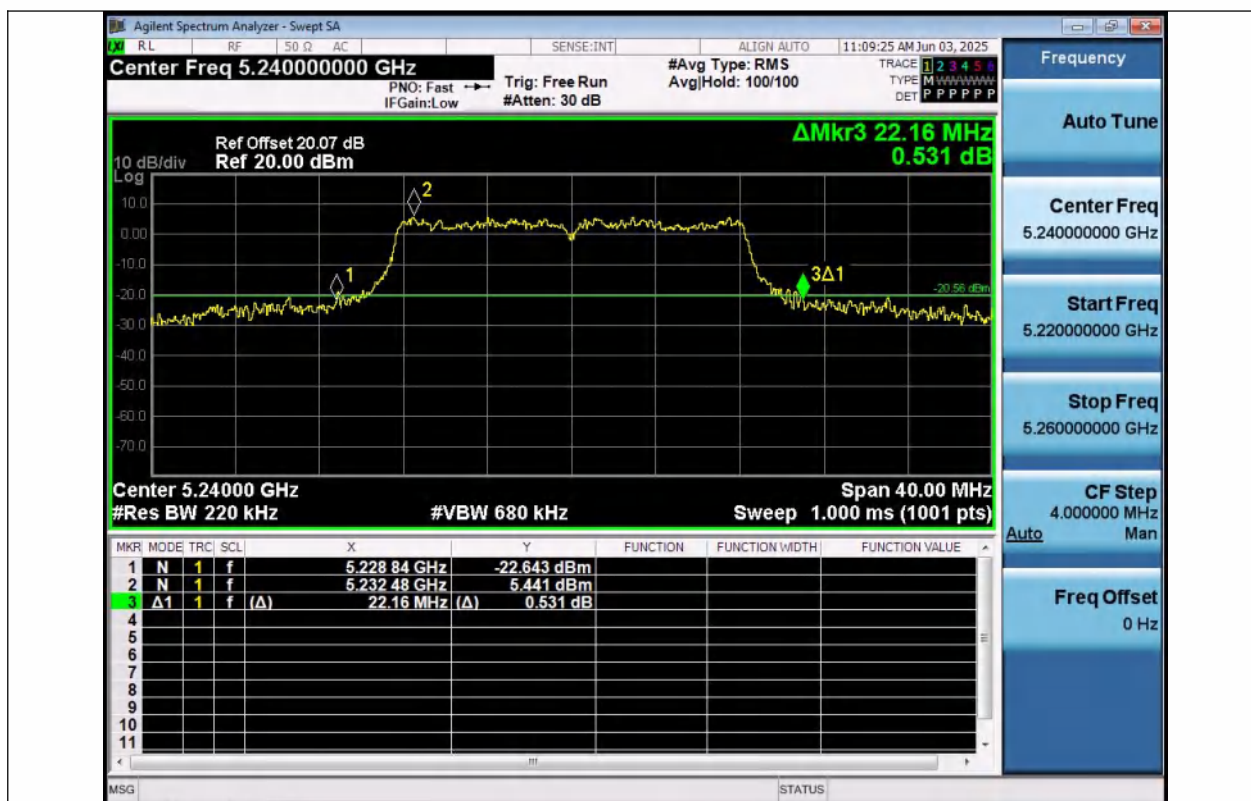
Emission Bandwidth



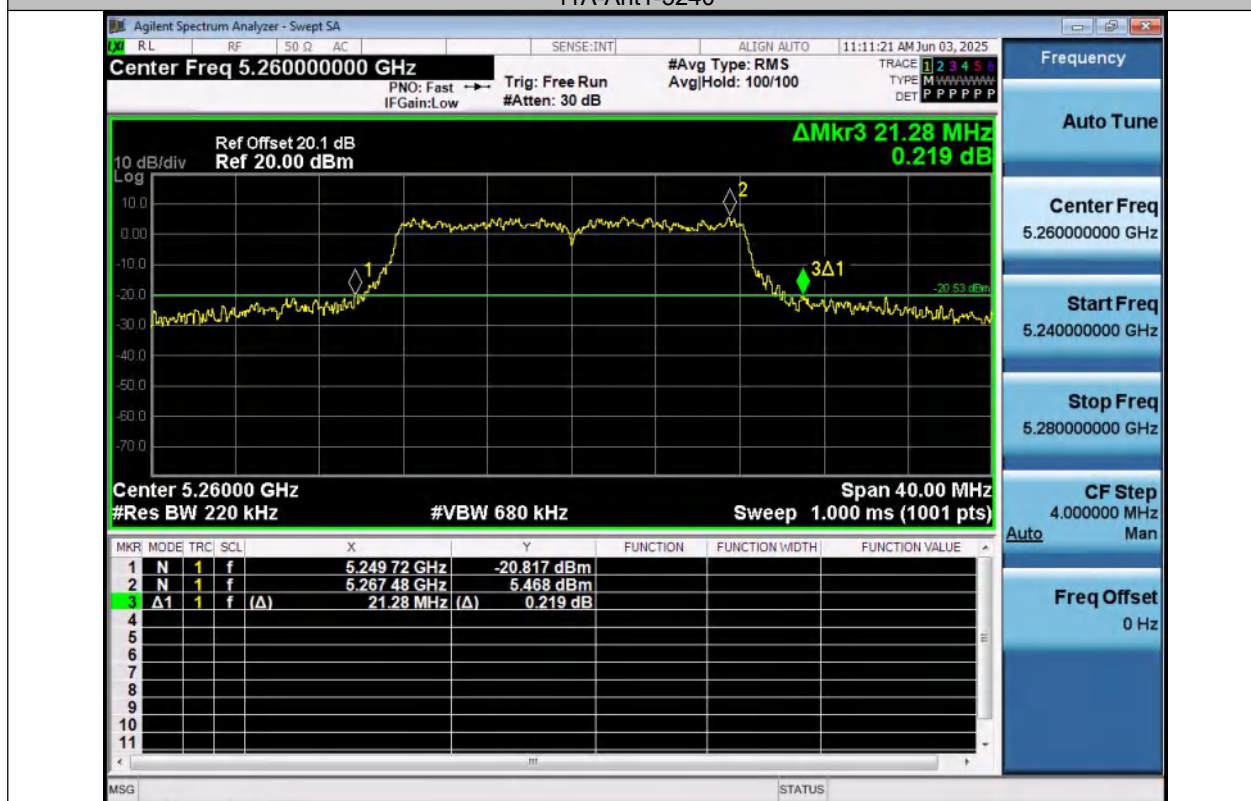
11A-Ant1-5180



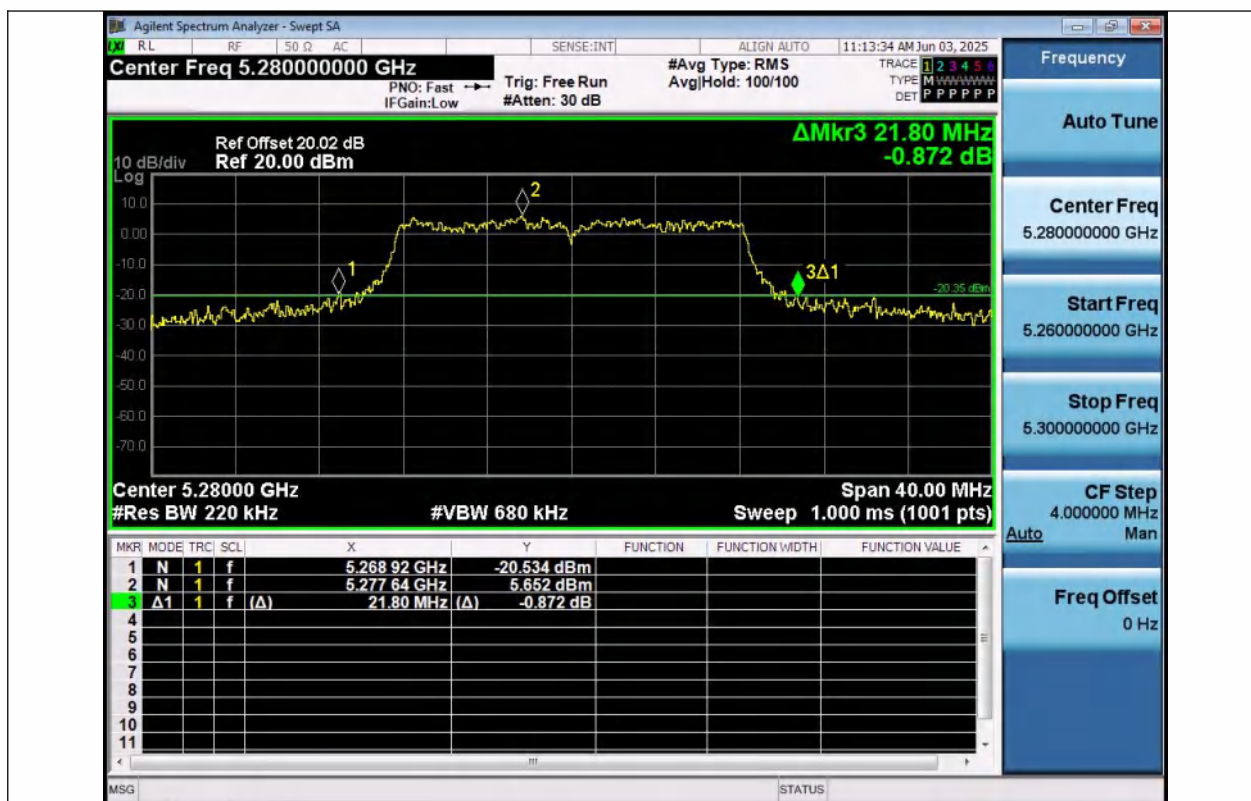
11A-Ant1-5200



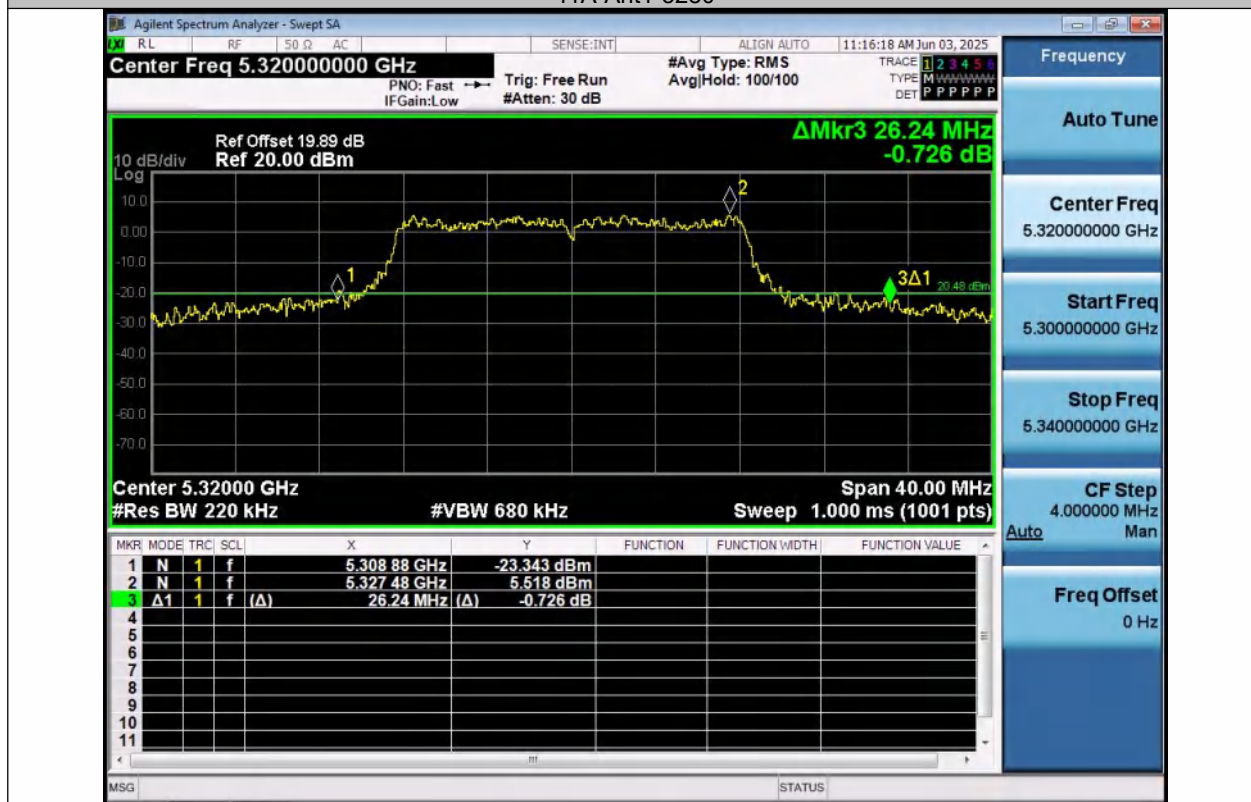
11A-Ant1-5240



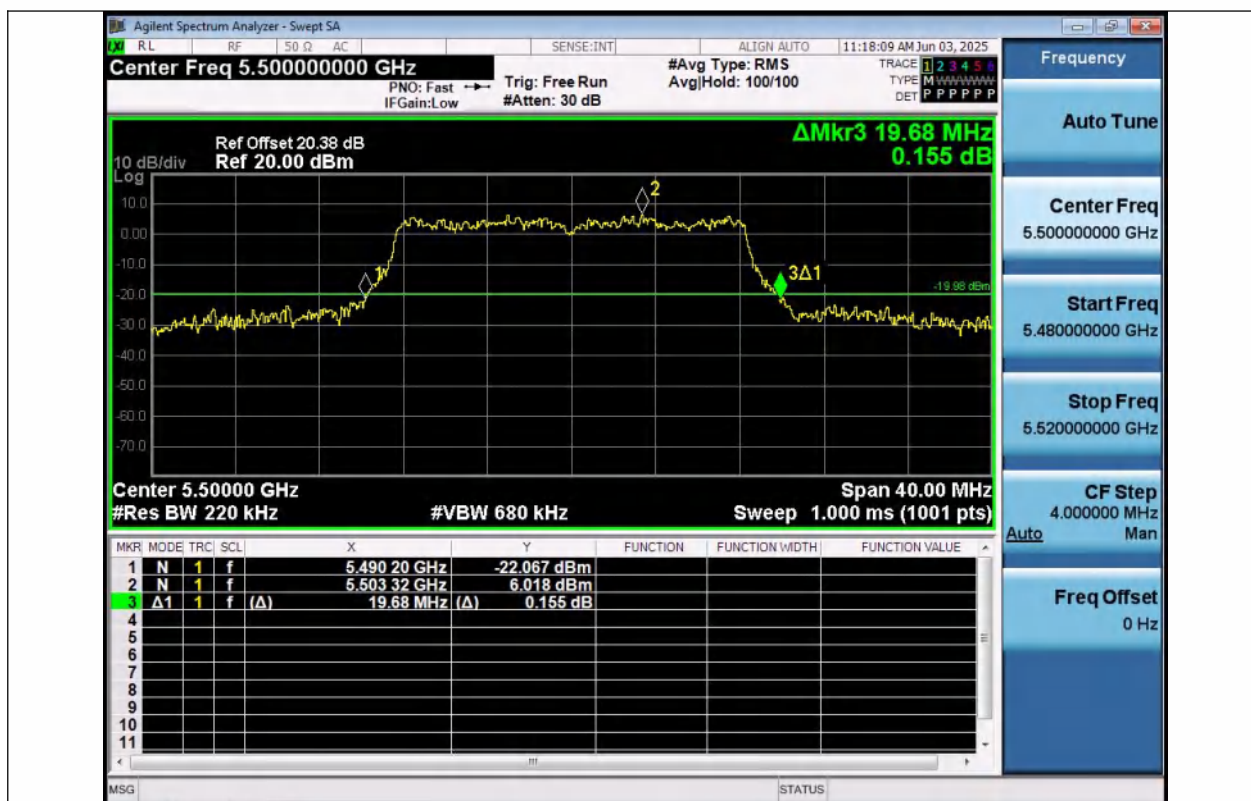
11A-Ant1-5260



11A-Ant1-5280



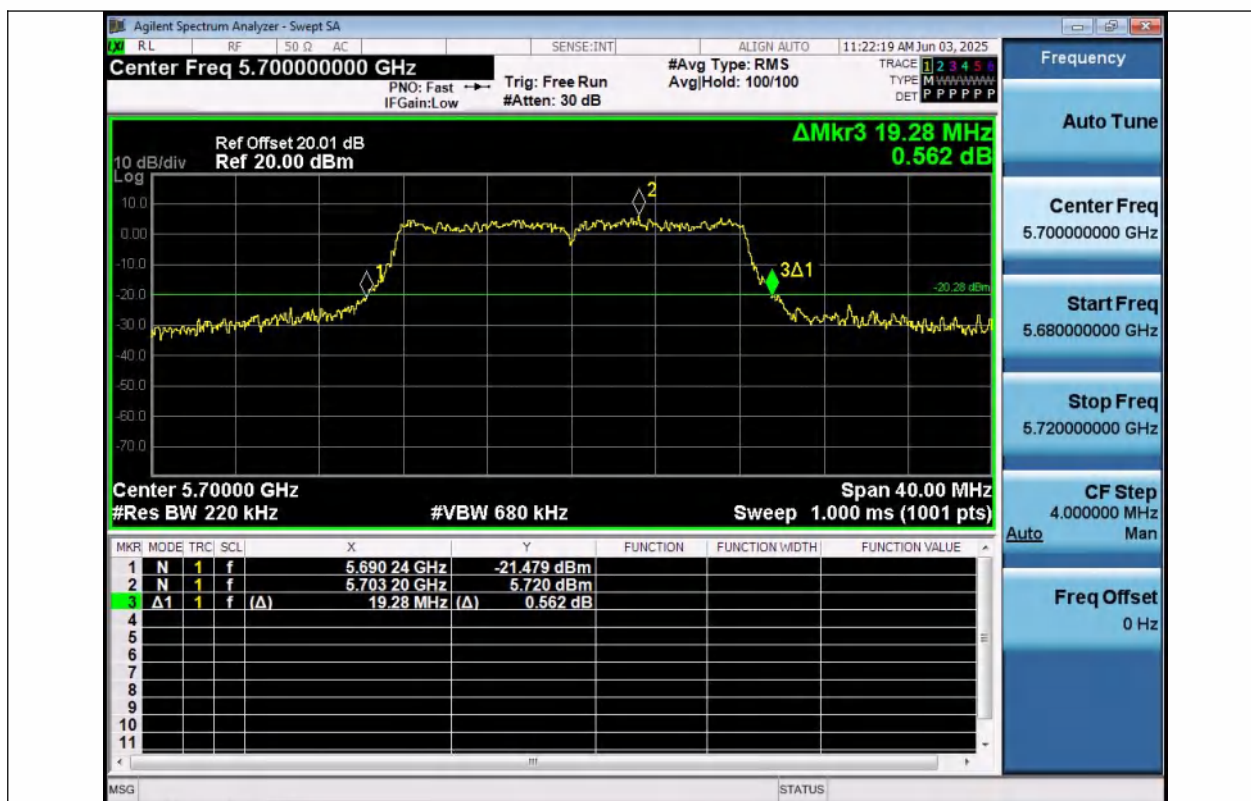
11A-Ant1-5320



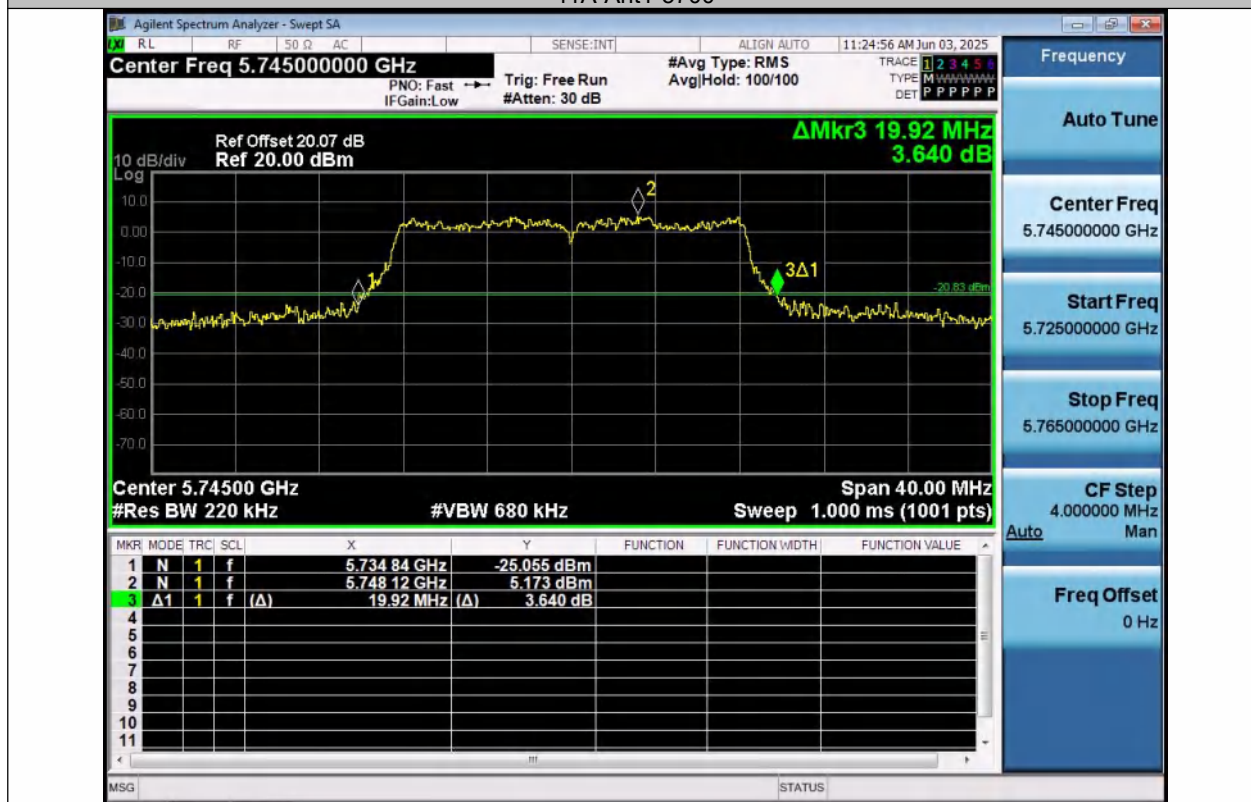
11A-Ant1-5500



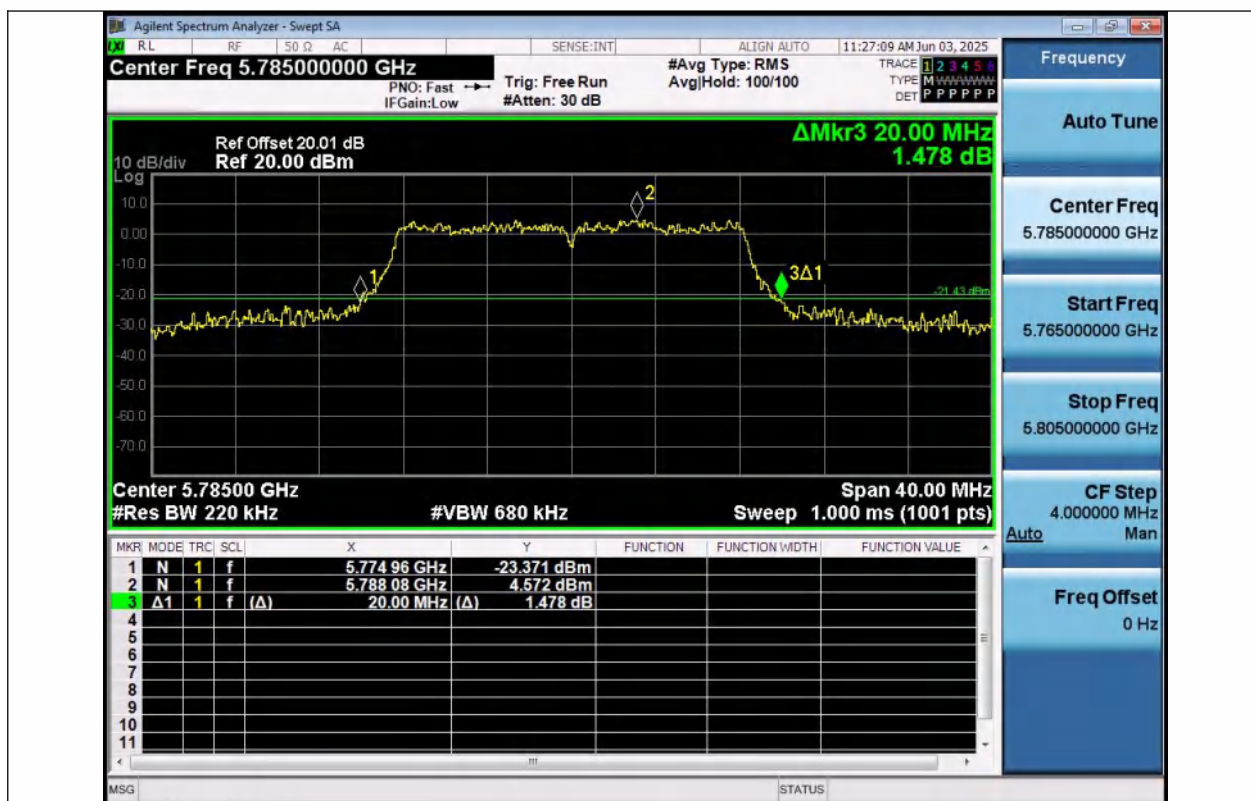
11A-Ant1-5580



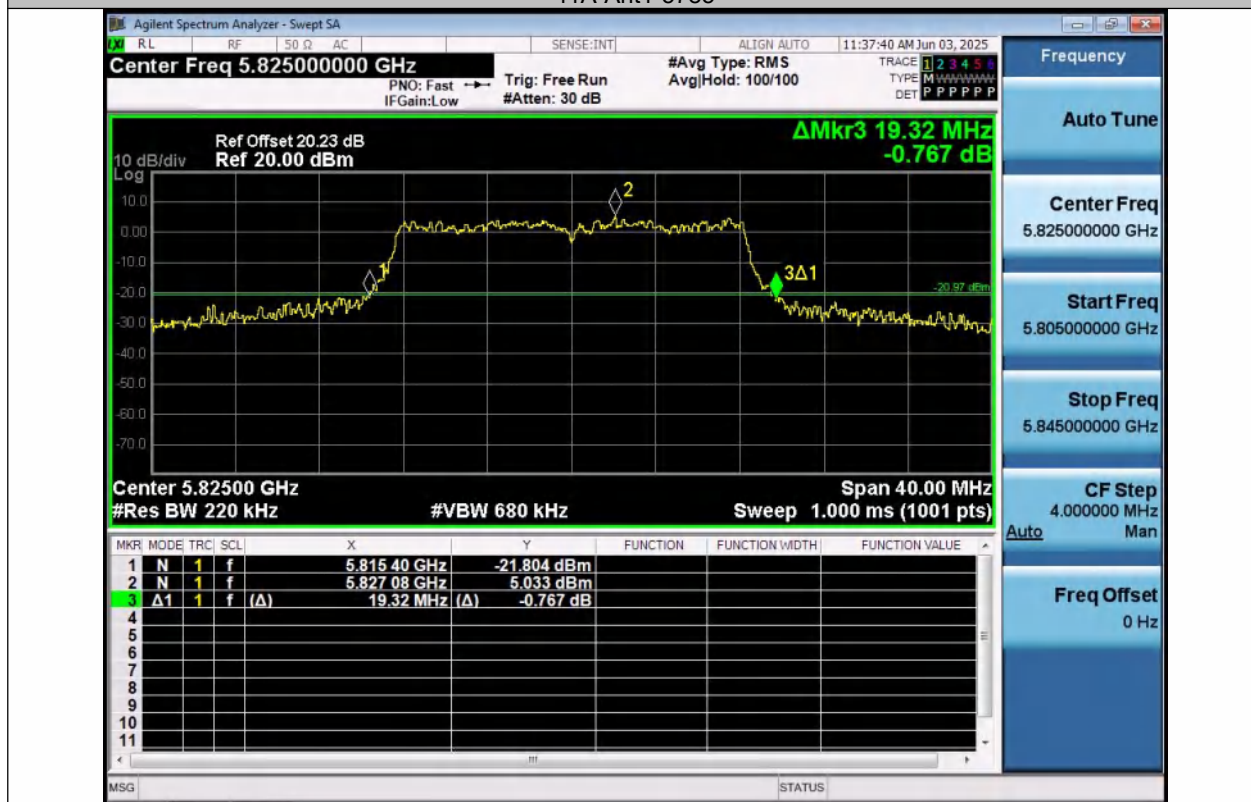
11A-Ant1-5700



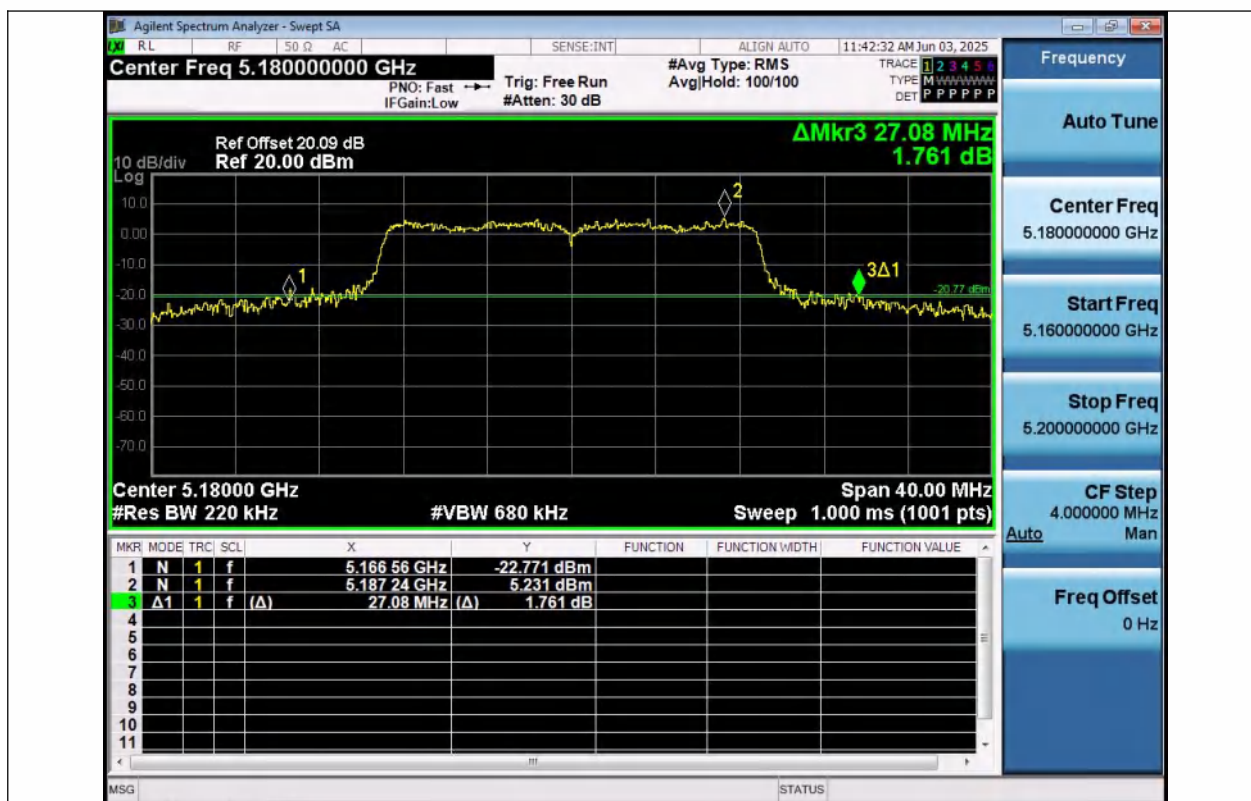
11A-Ant1-5745



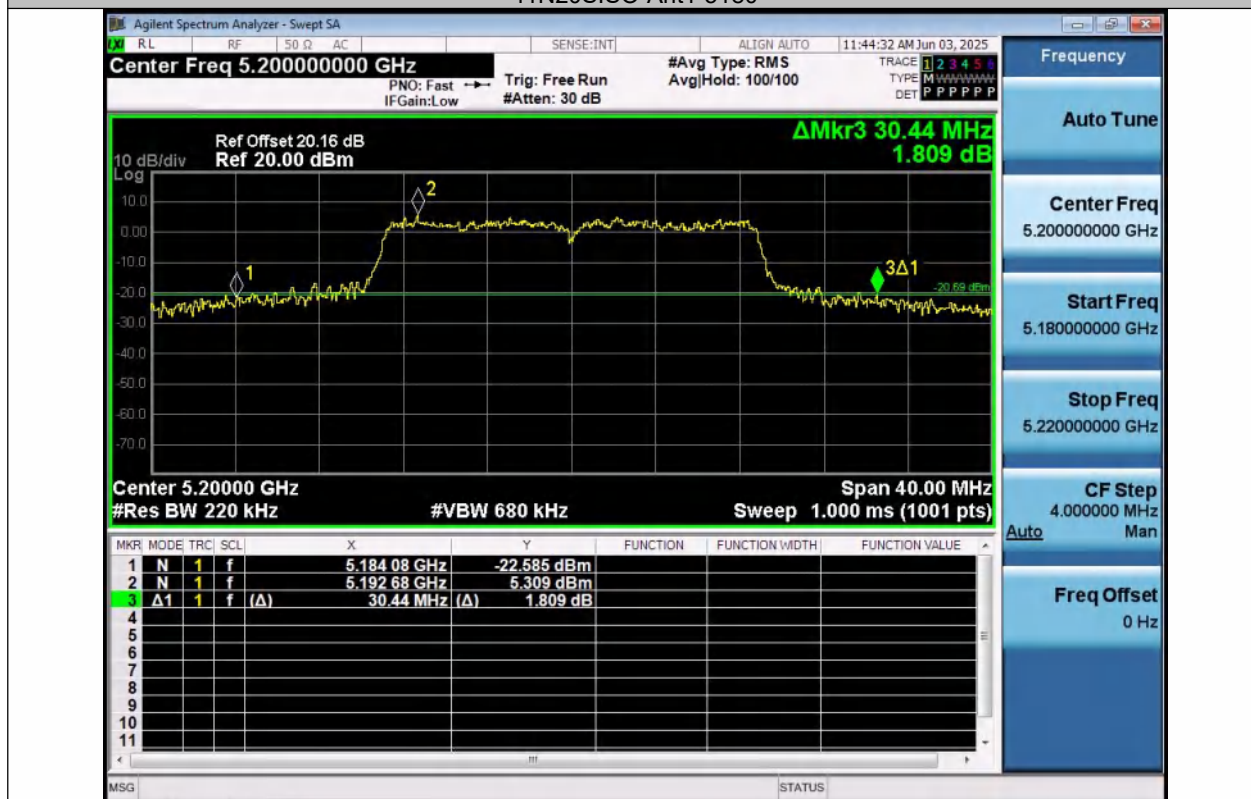
11A-Ant1-5785



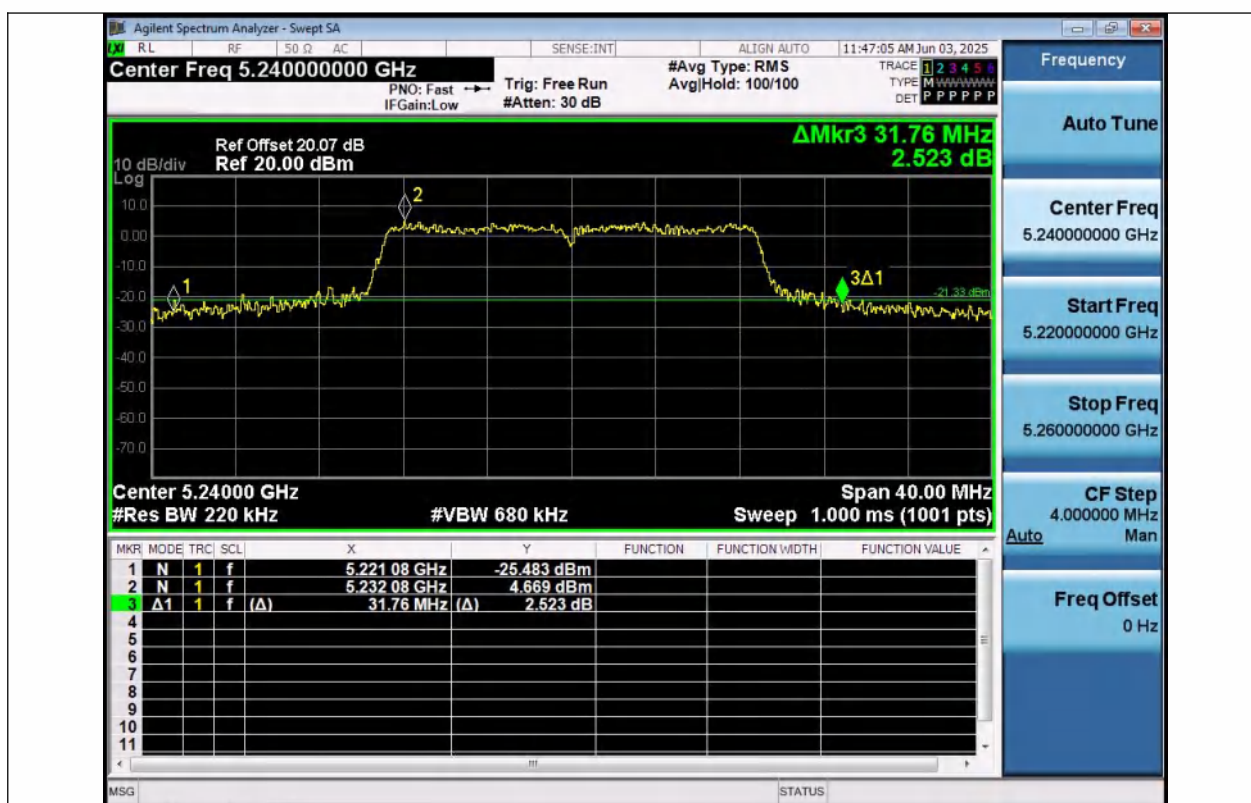
11A-Ant1-5825



11N20SISO-Ant1-5180



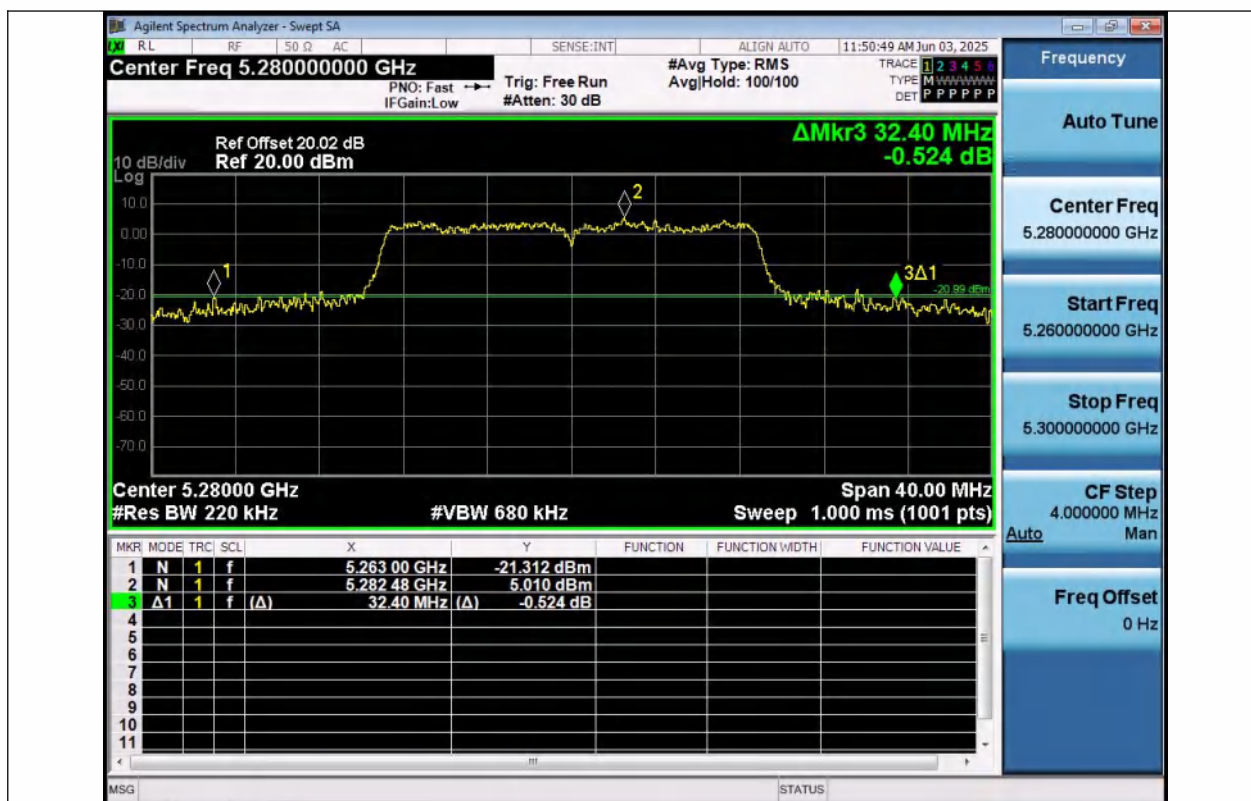
11N20SISO-Ant1-5200



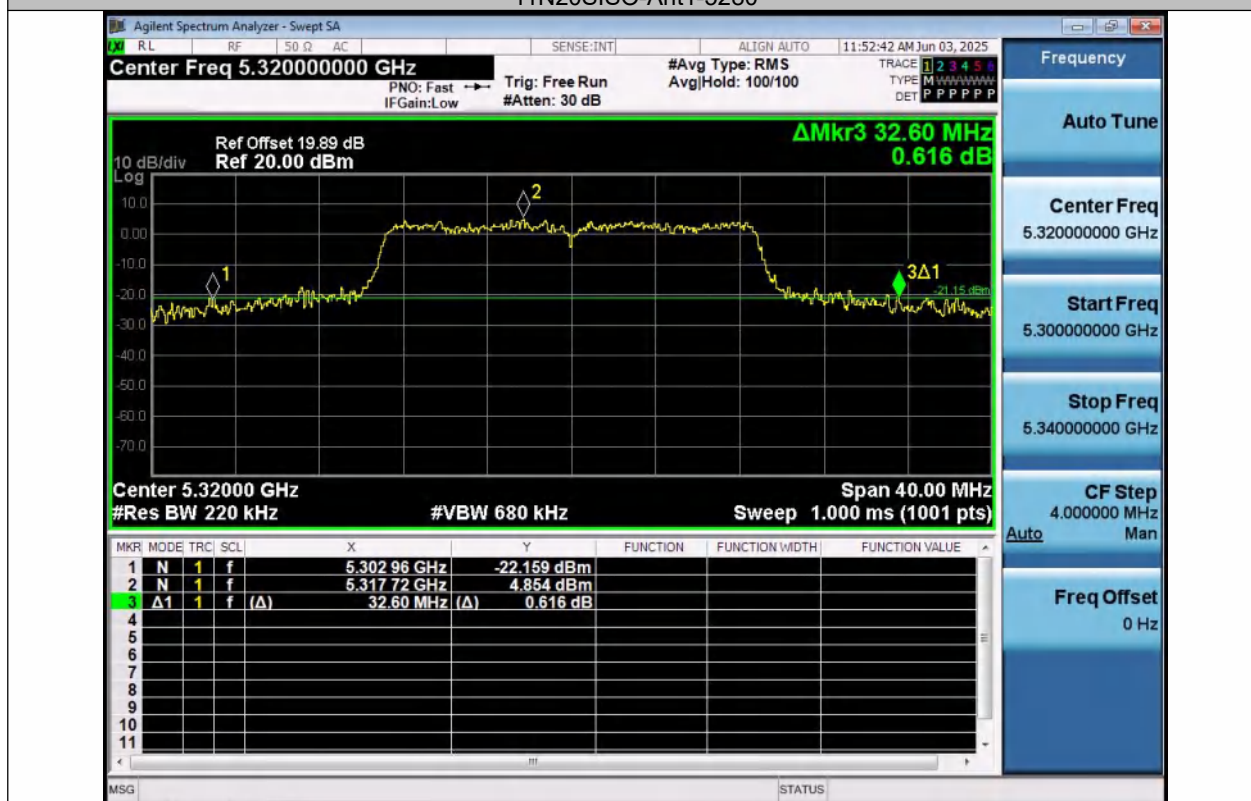
11N20SISO-Ant1-5240



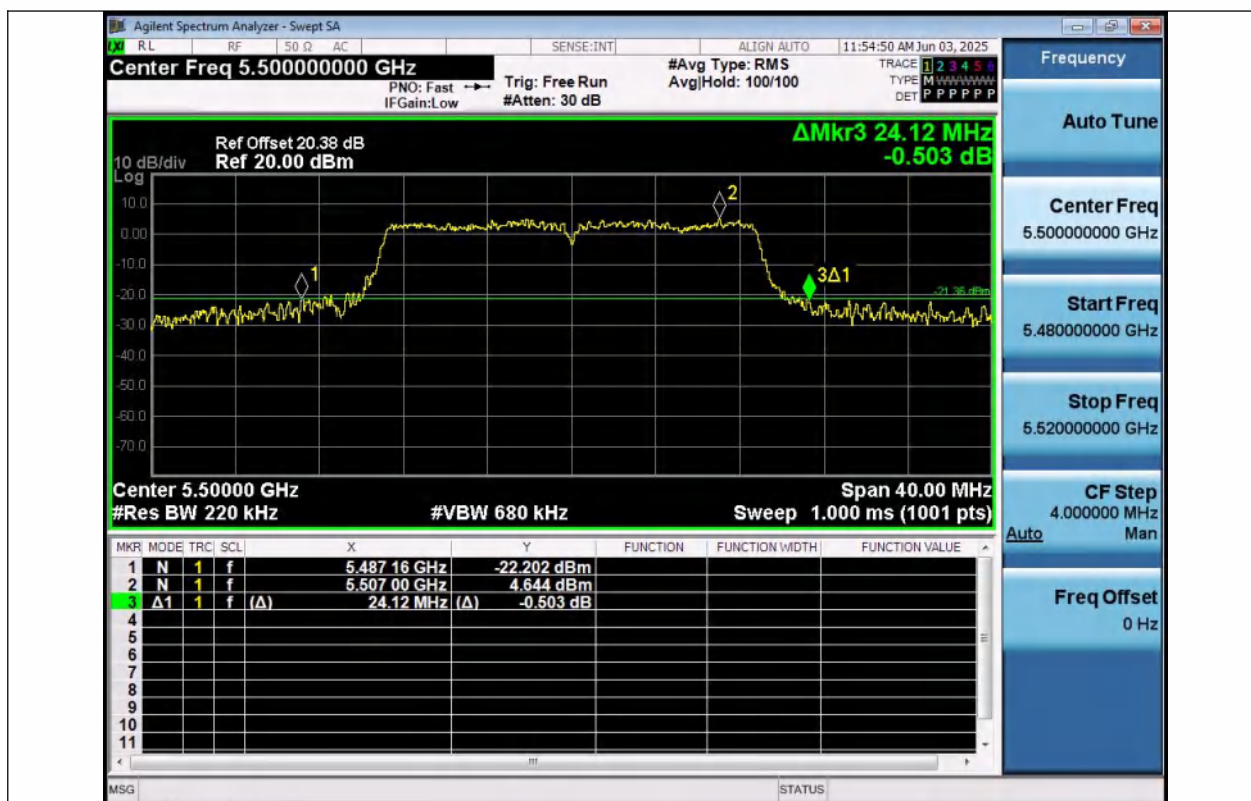
11N20SISO-Ant1-5260



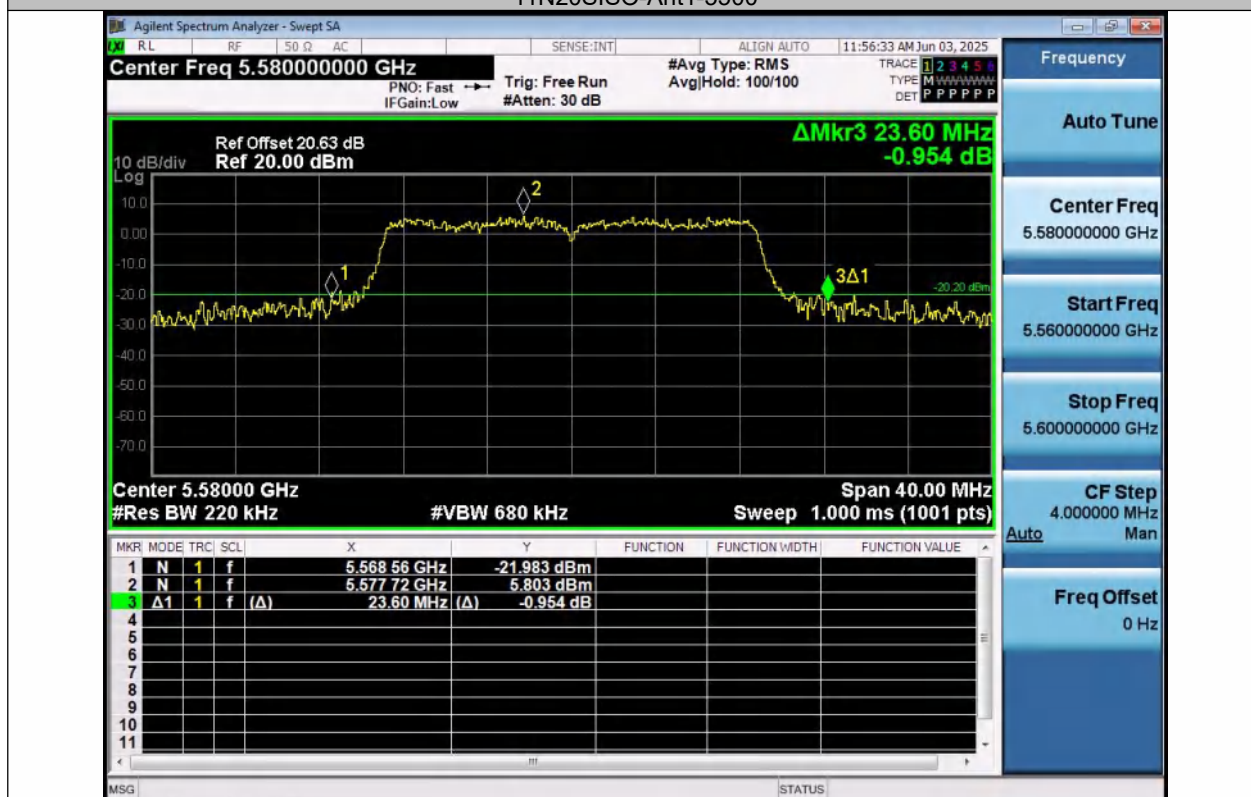
11N20SISO-Ant1-5280



11N20SISO-Ant1-5320



11N20SISO-Ant1-5500



11N20SISO-Ant1-5580



11N20SISO-Ant1-5700



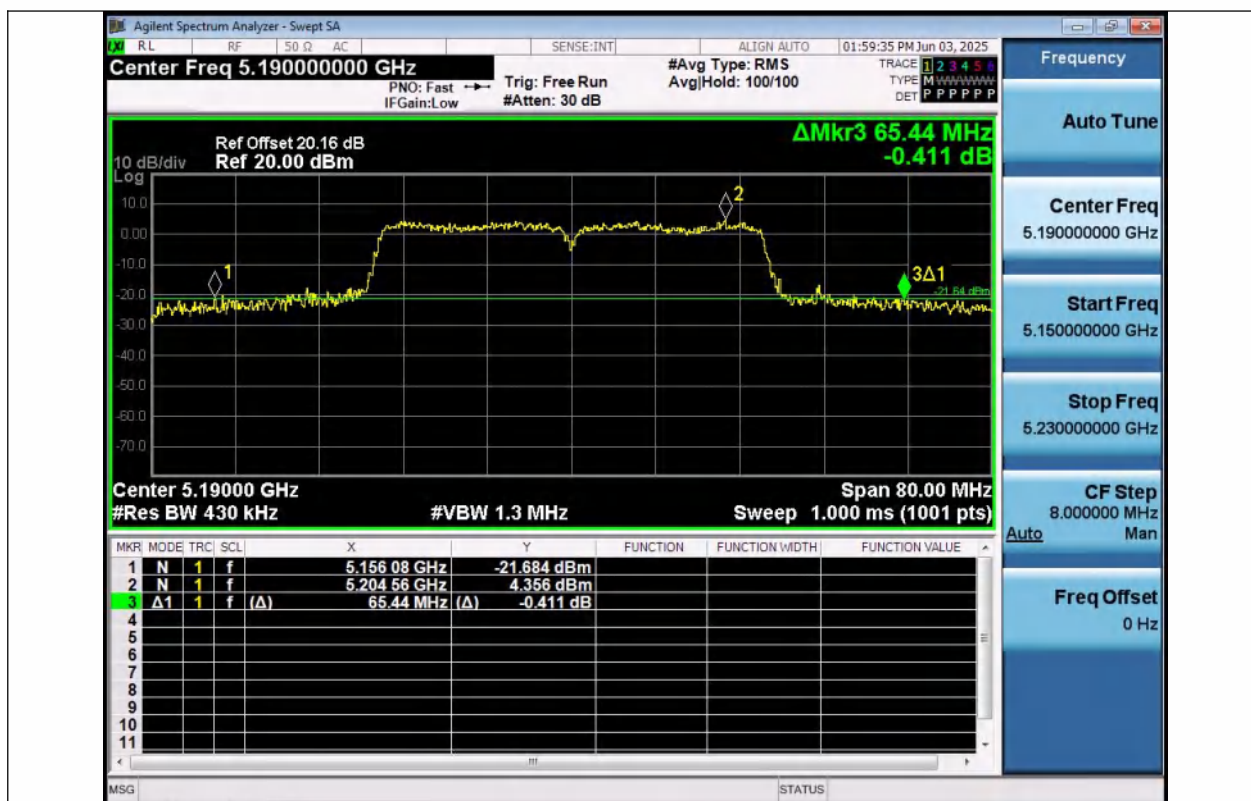
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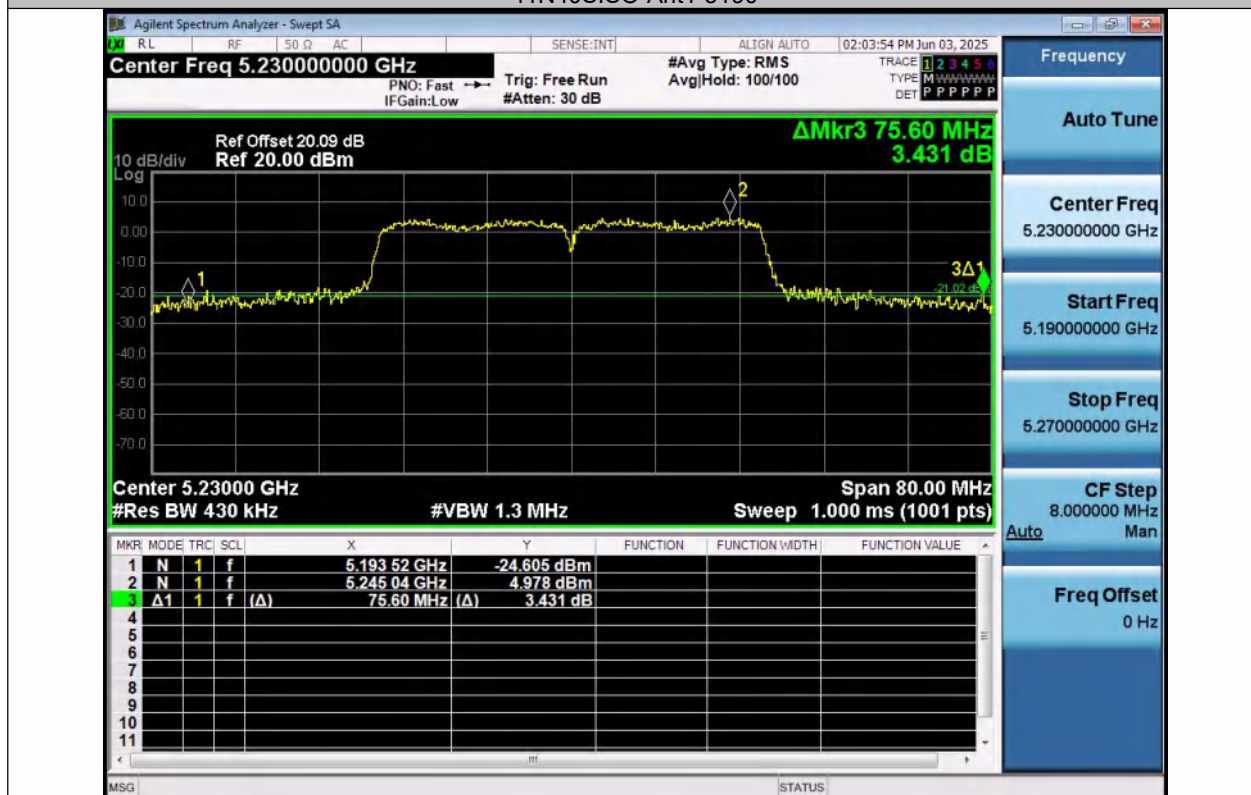
11N20SISO-Ant1-5785



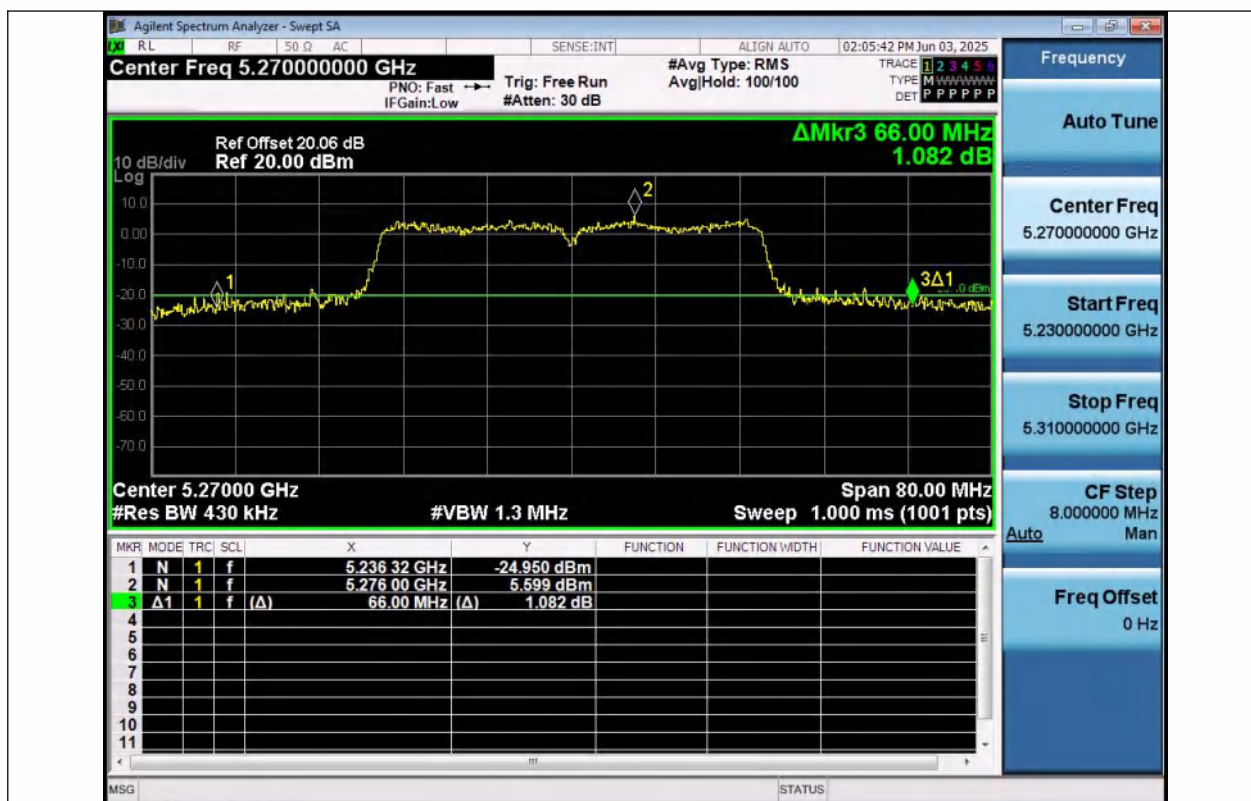
11N20SISO-Ant1-5825



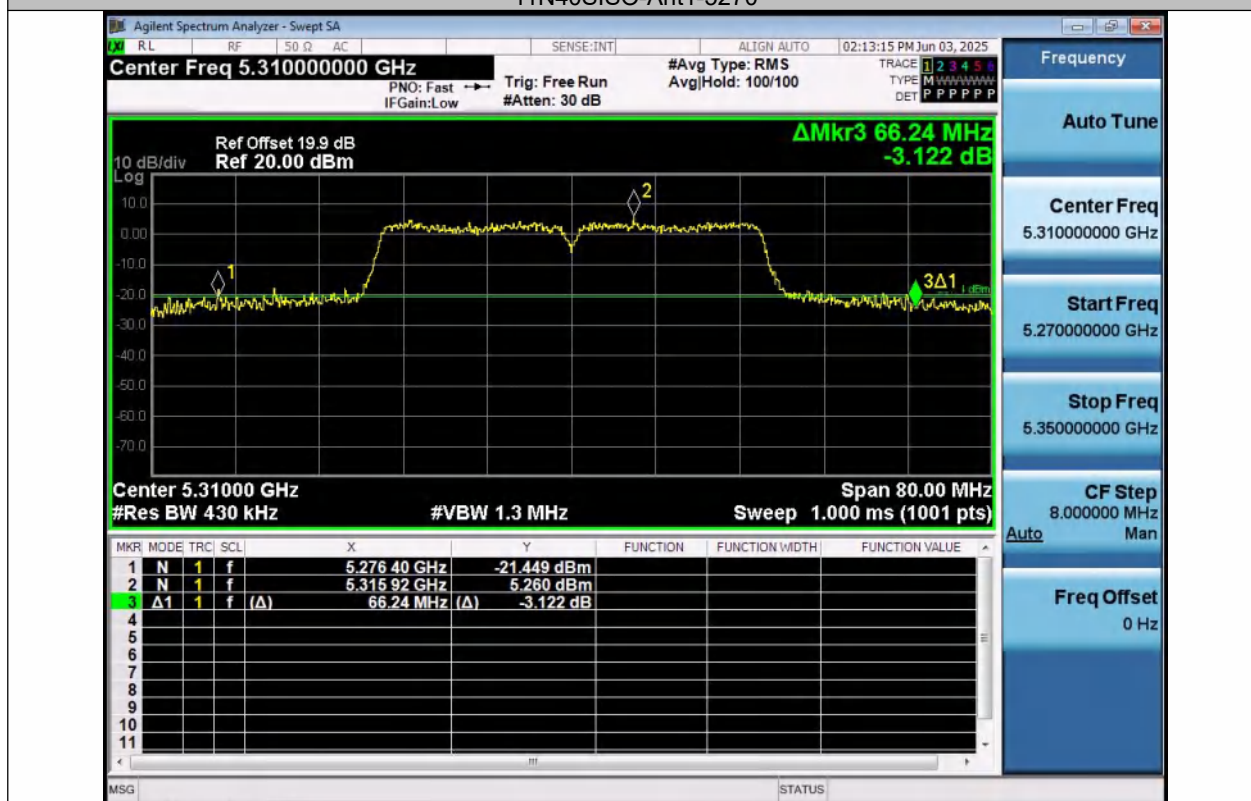
11N40SISO-Ant1-5190



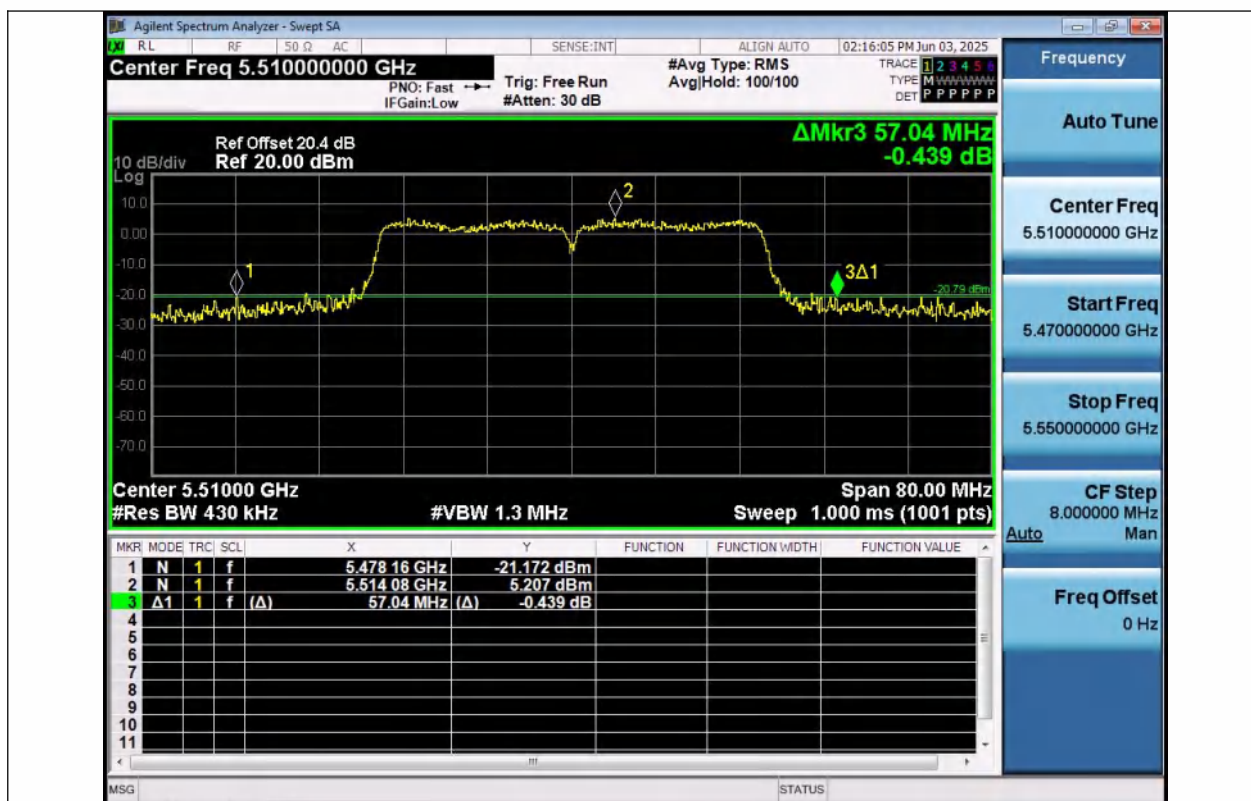
11N40SISO-Ant1-5230



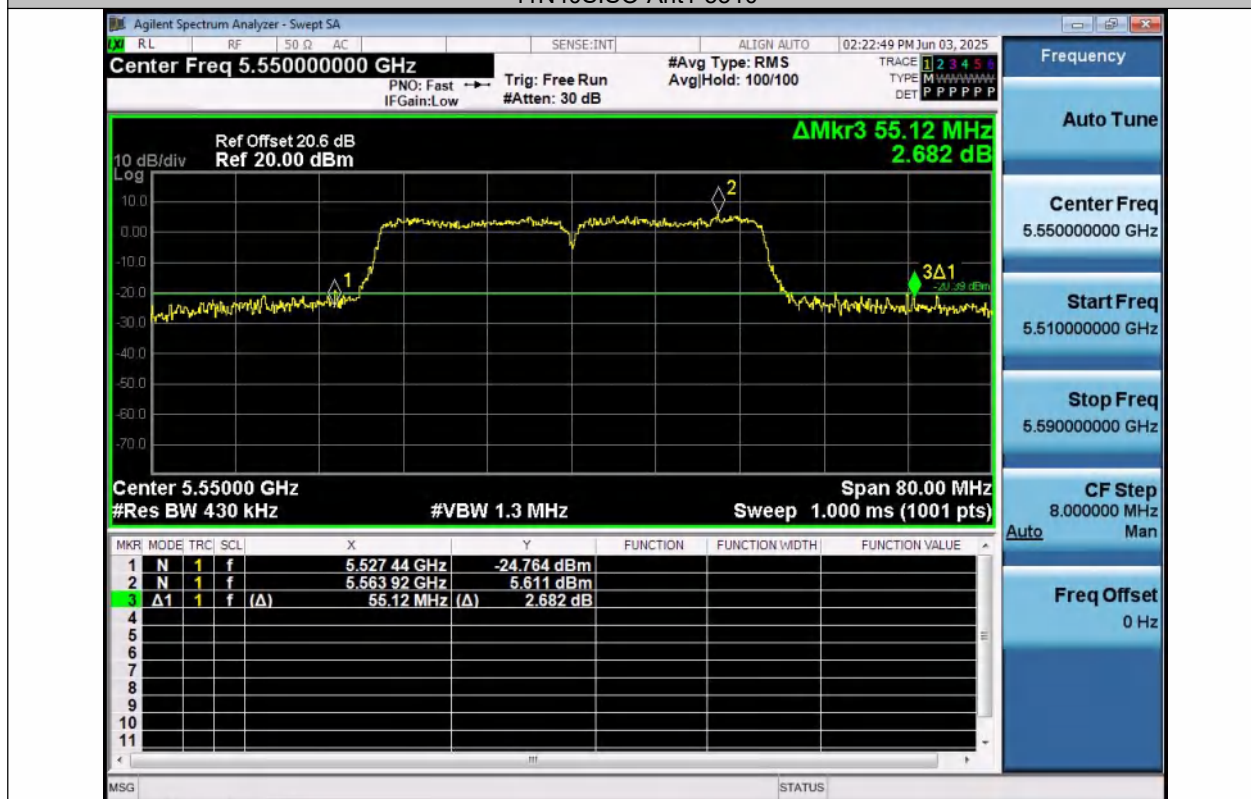
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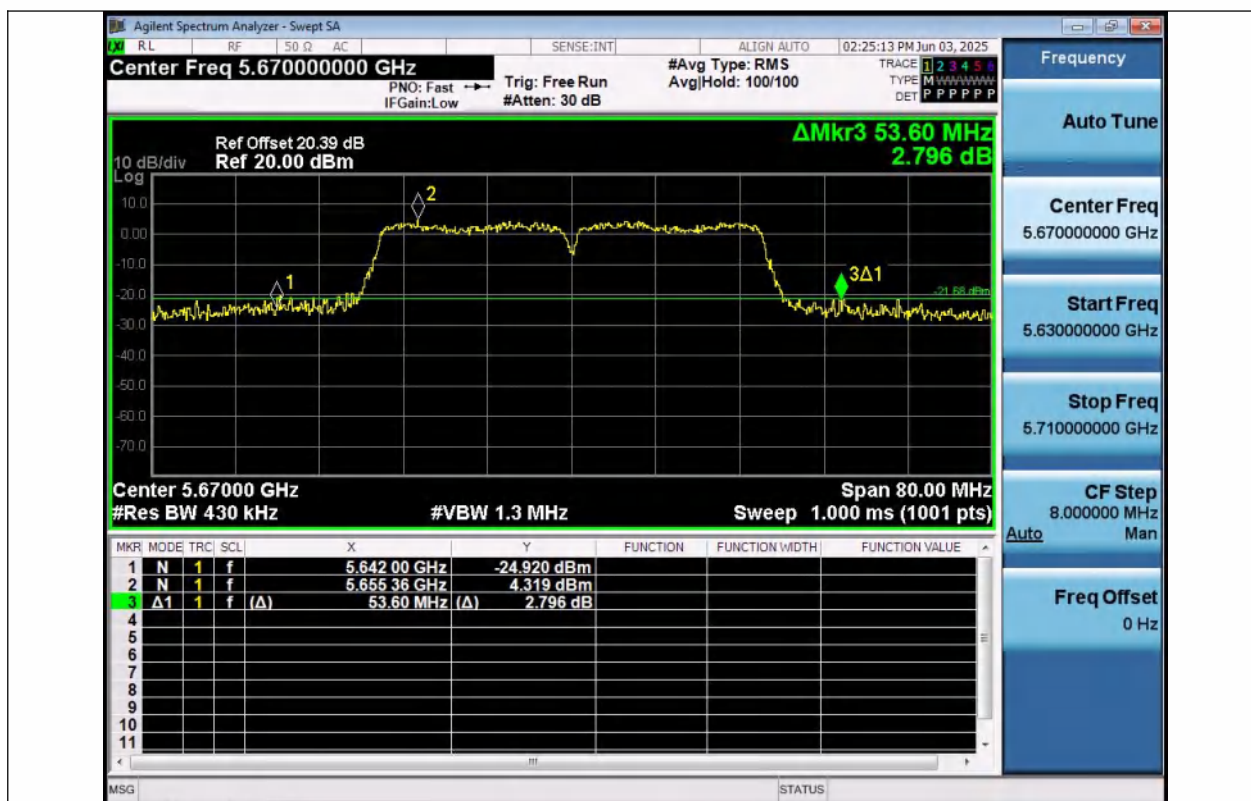
11N40SISO-Ant1-5310



11N40SISO-Ant1-5510



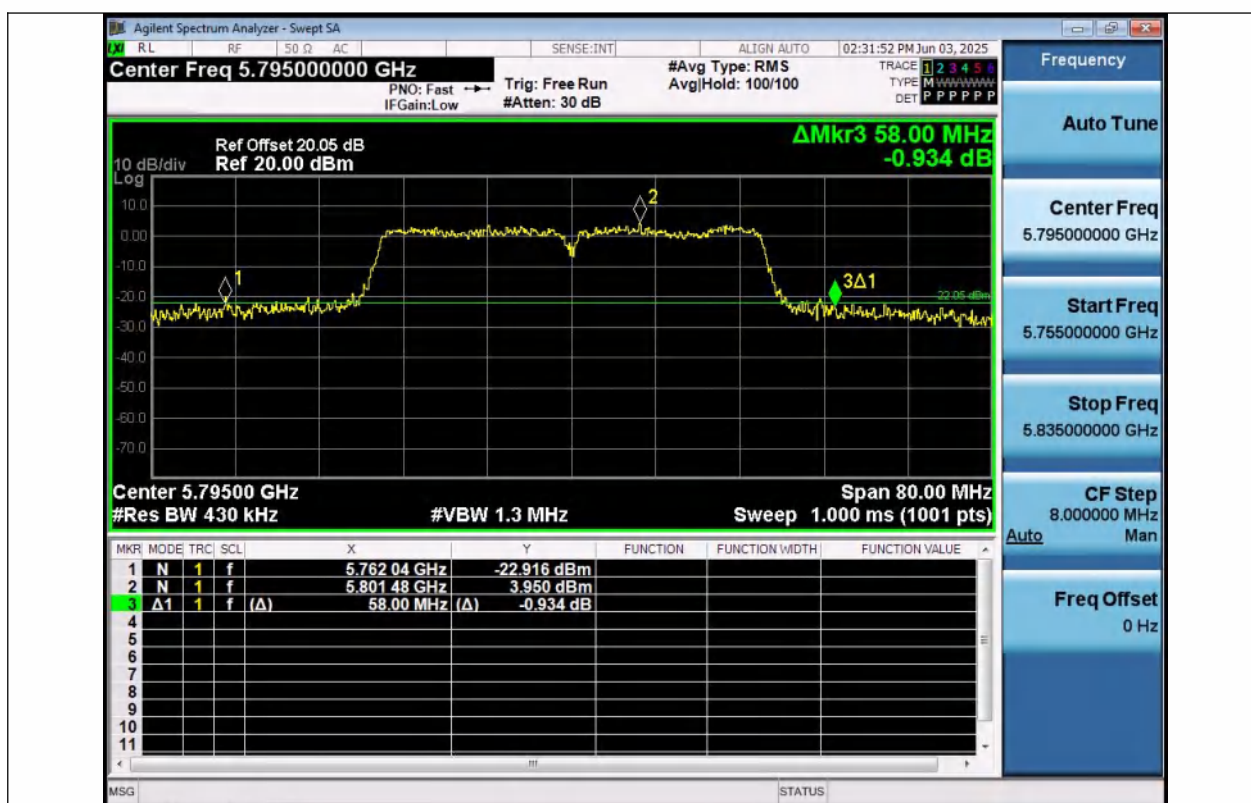
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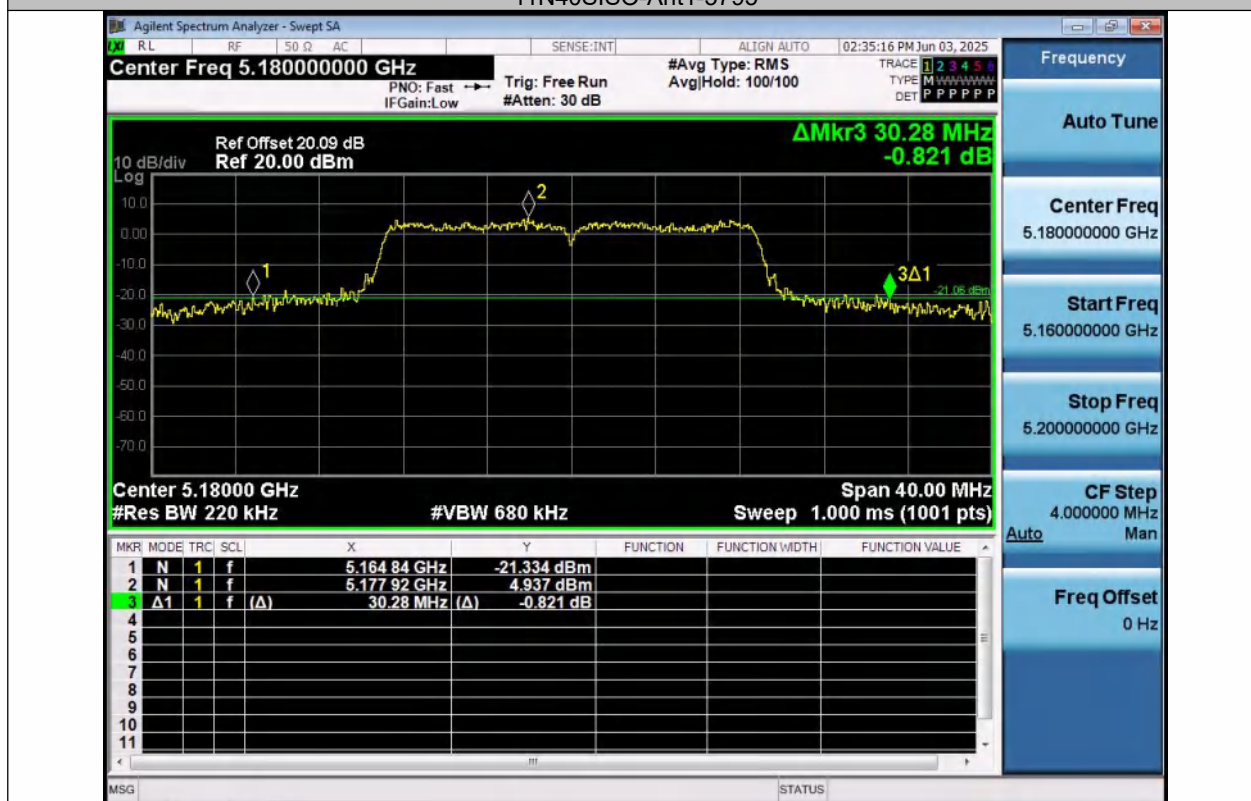
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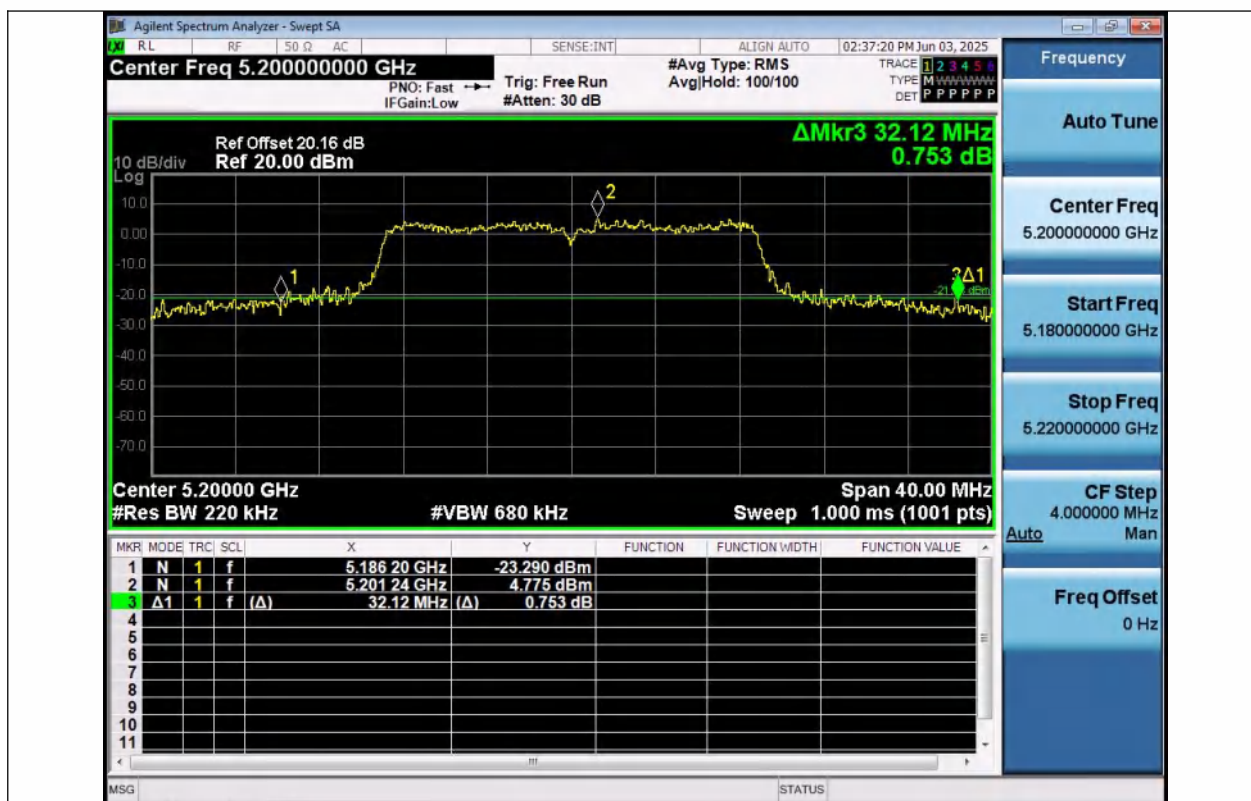
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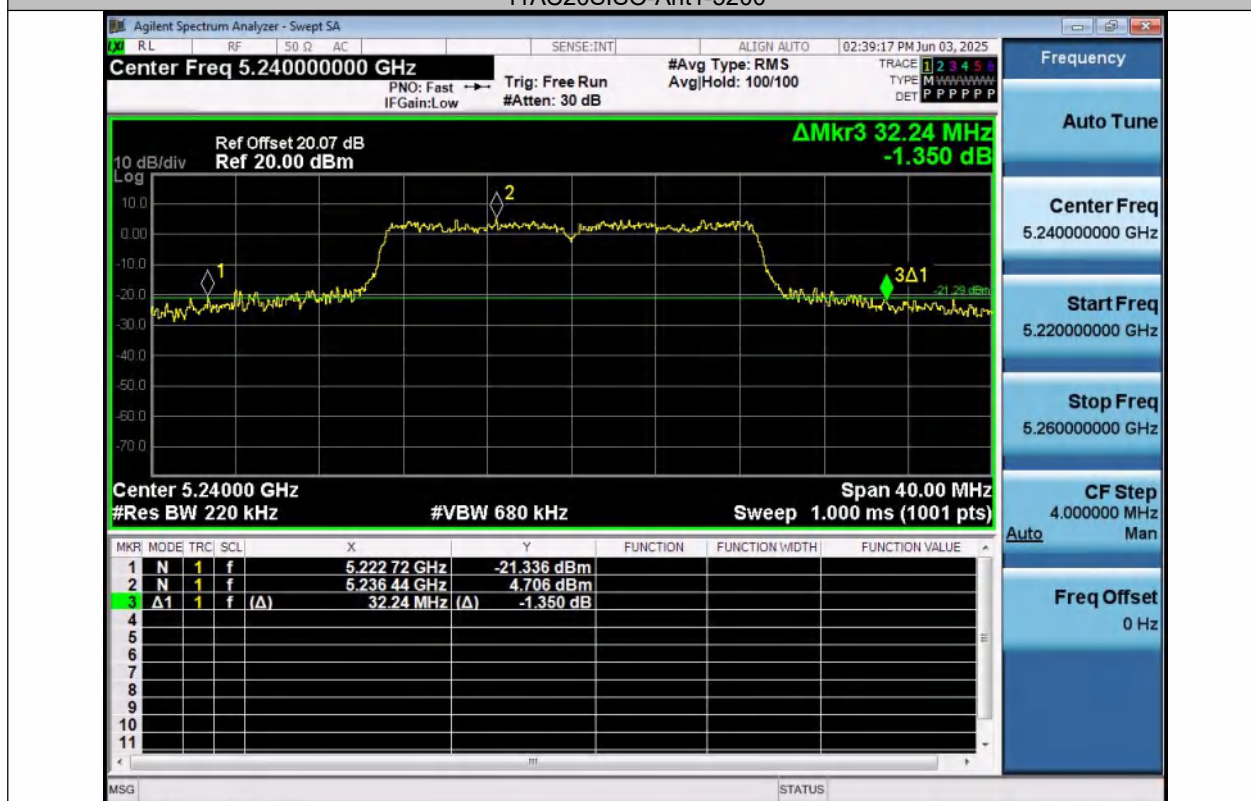
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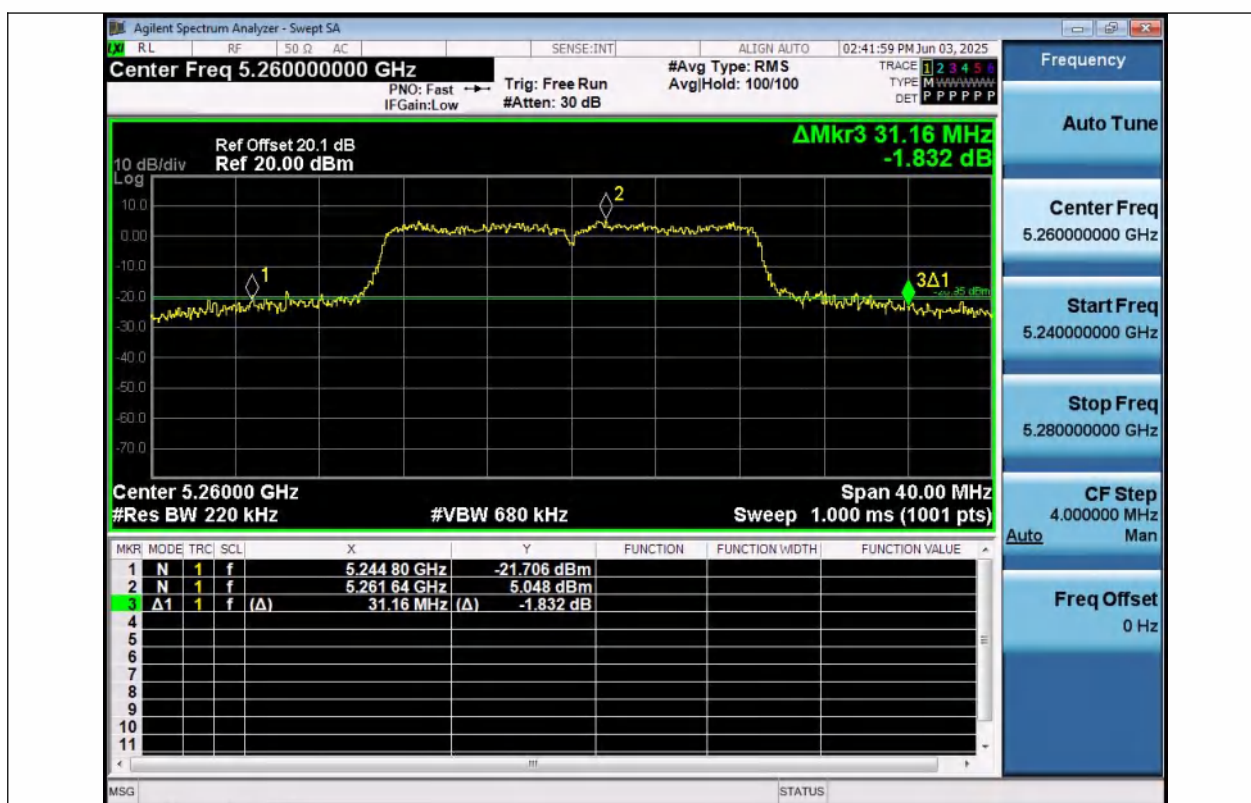
11AC20SISO-Ant1-5180



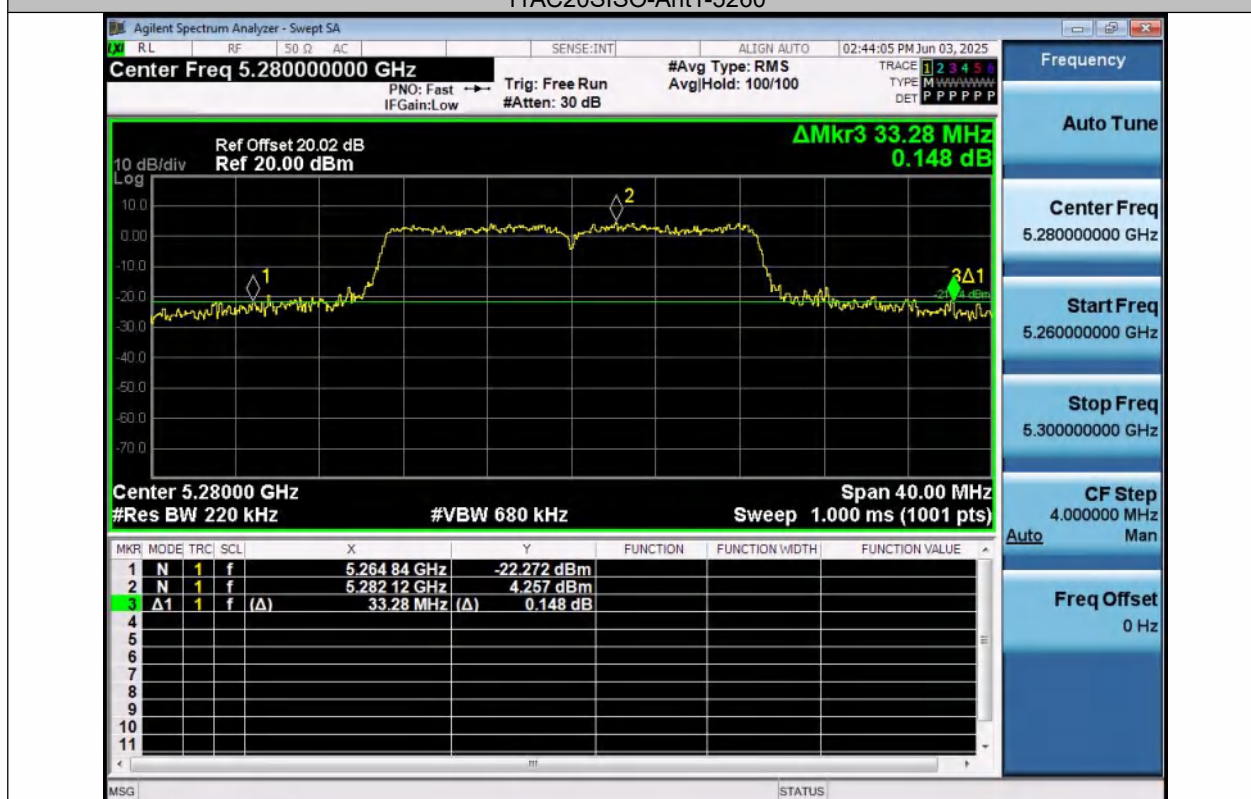
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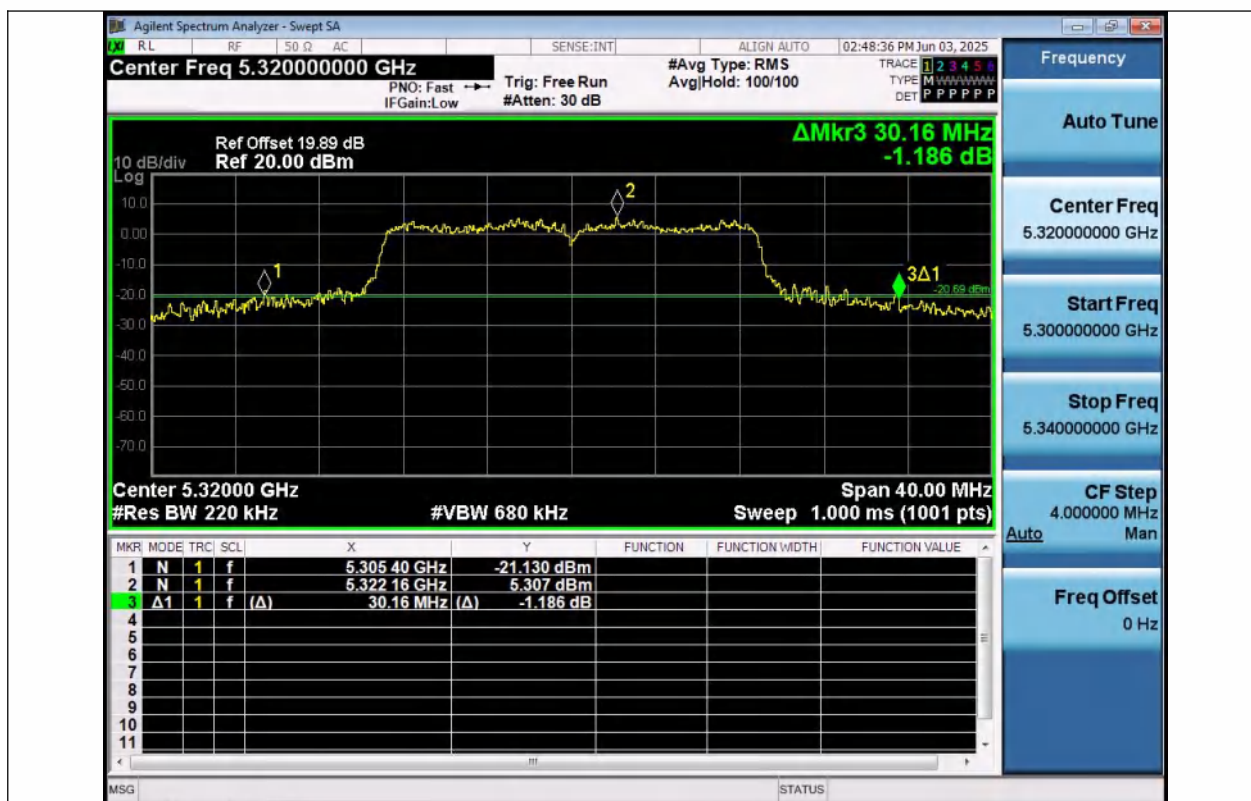
11AC20SISO-Ant1-5240



11AC20SISO-Ant1-5260



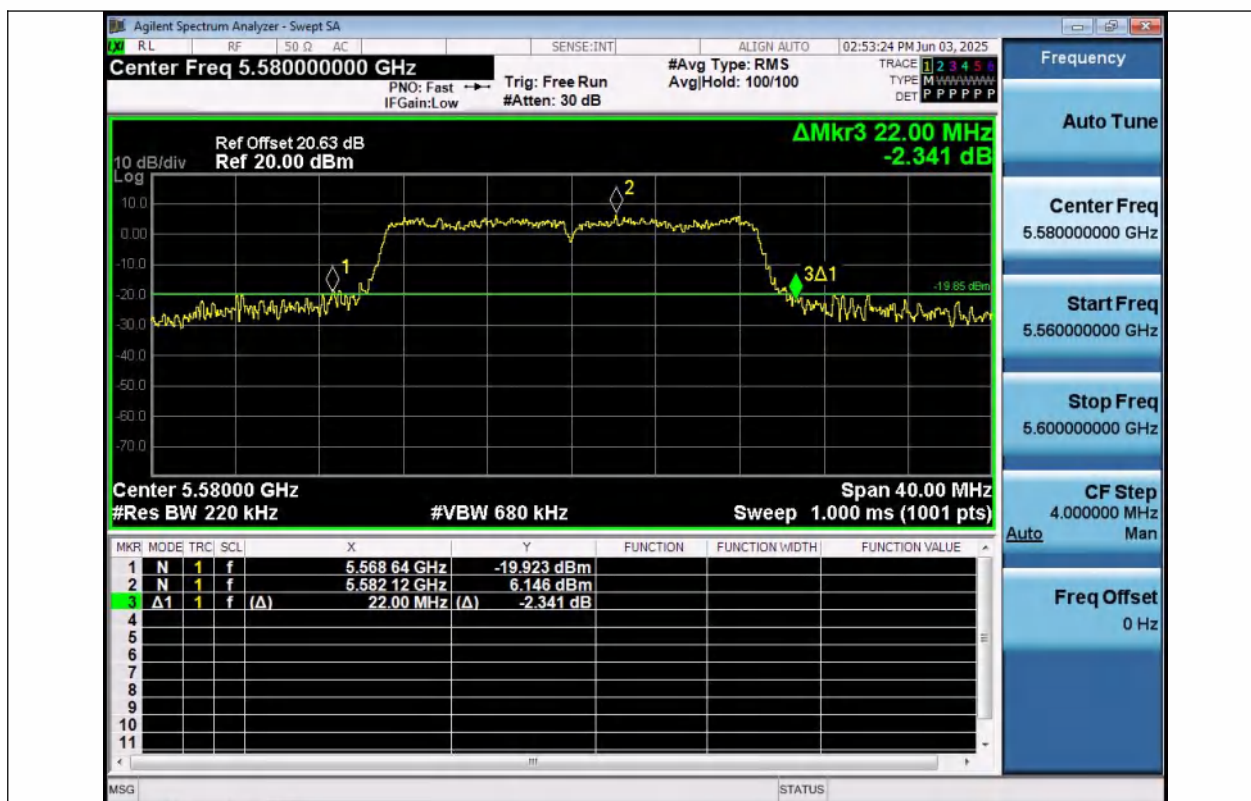
11AC20SISO-Ant1-5280



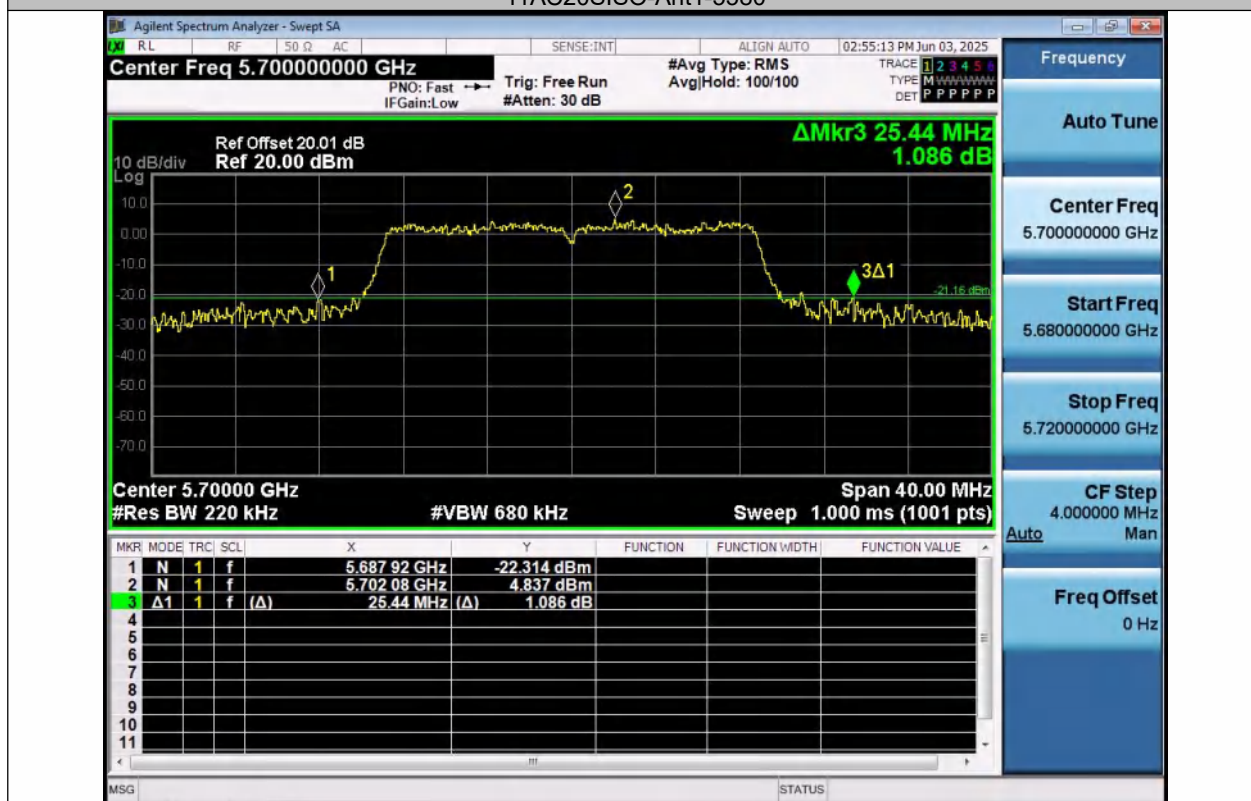
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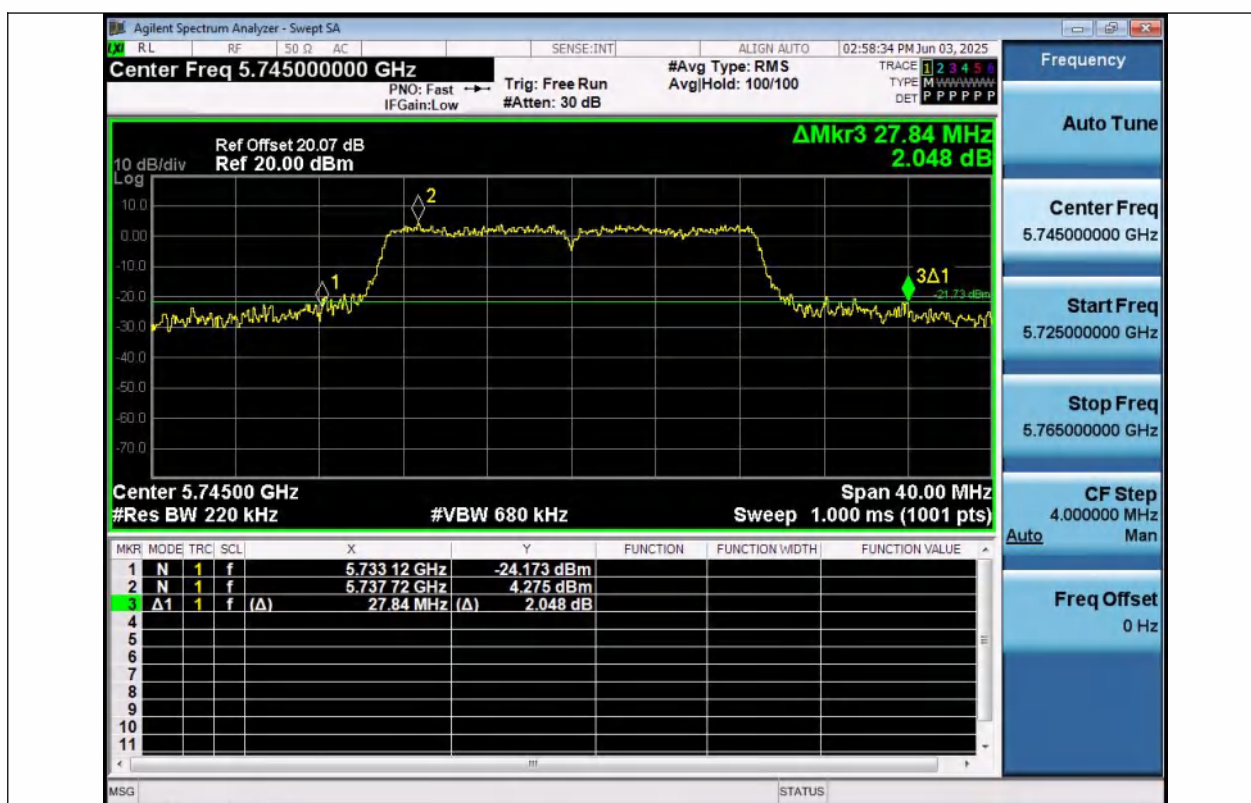
11AC20SISO-Ant1-5500



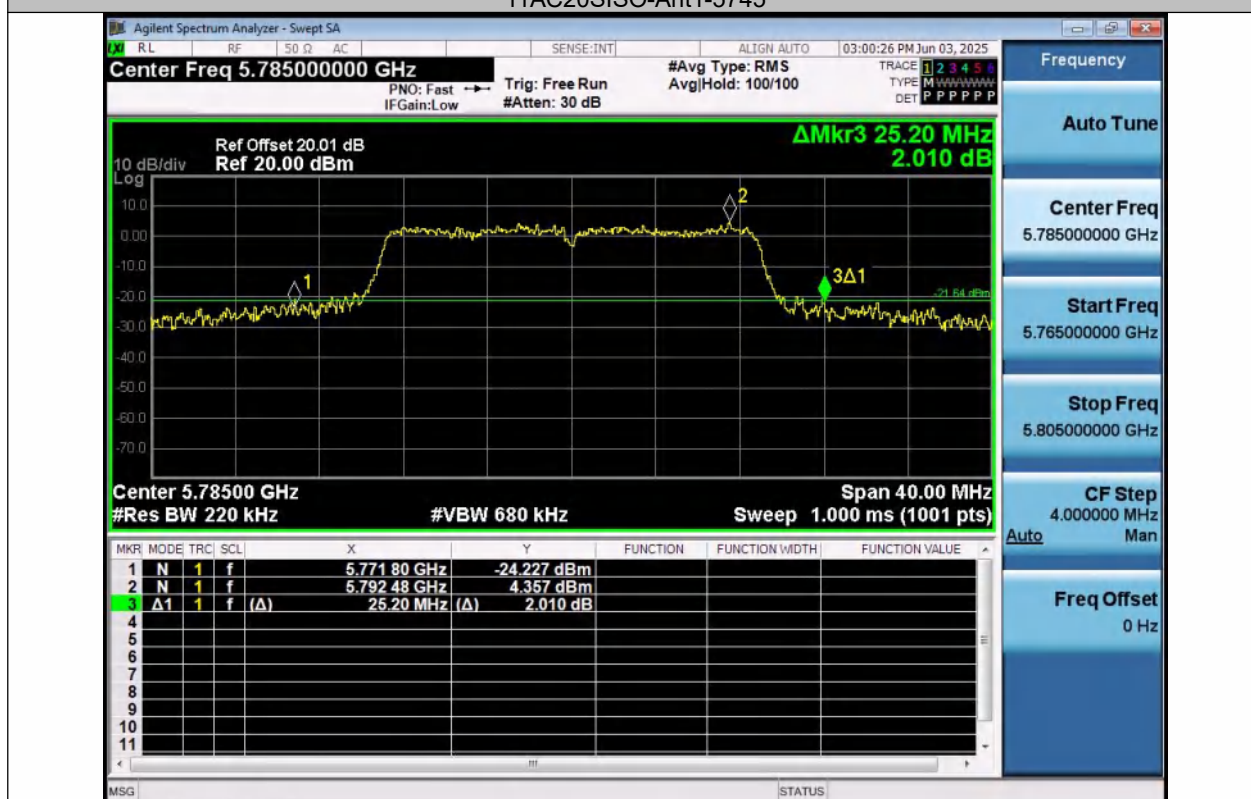
11AC20SISO-Ant1-5580



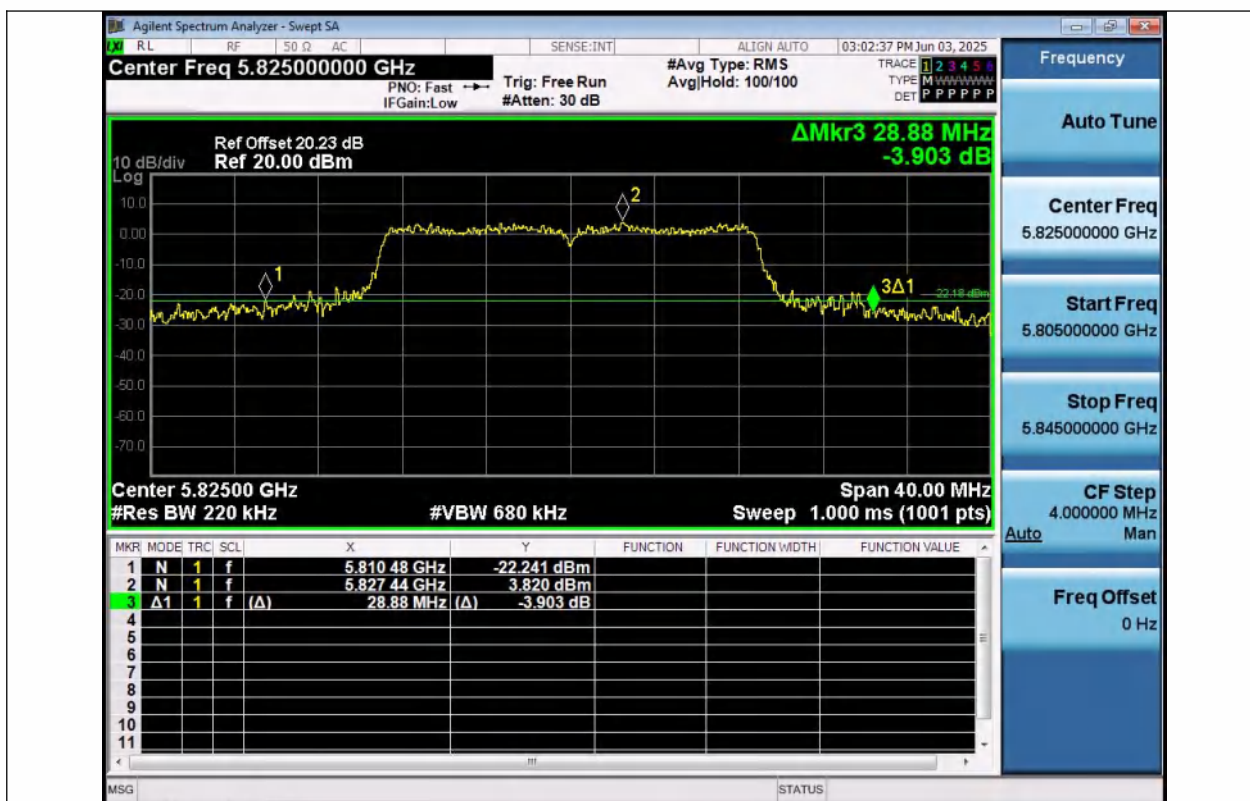
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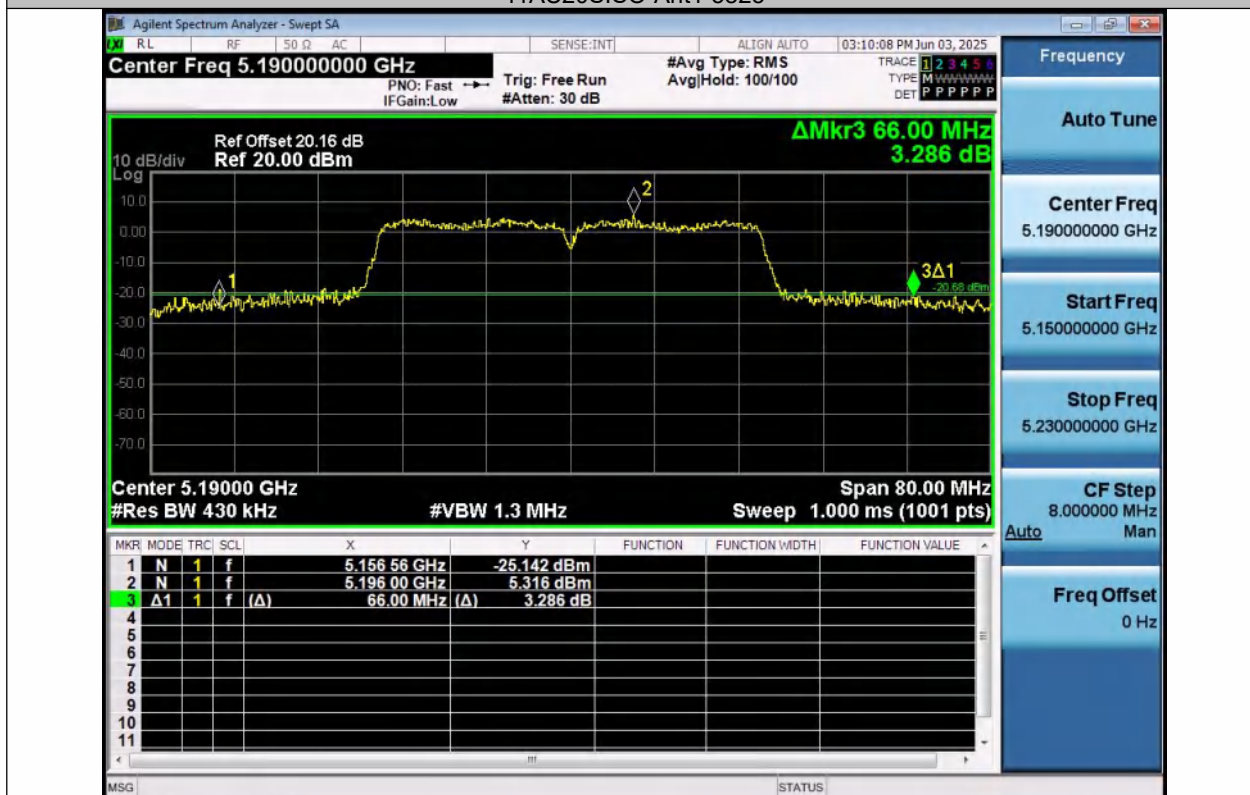
11AC20SISO-Ant1-5745



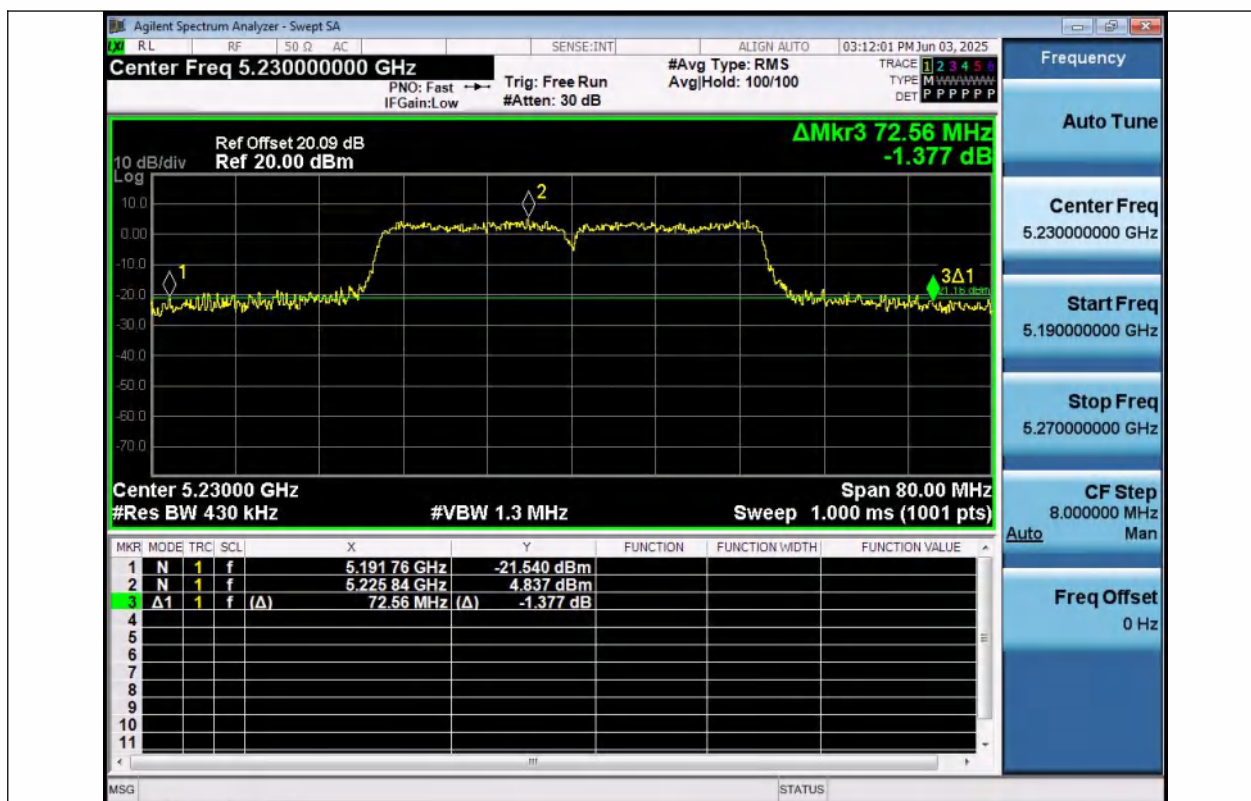
11AC20SISO-Ant1-5785



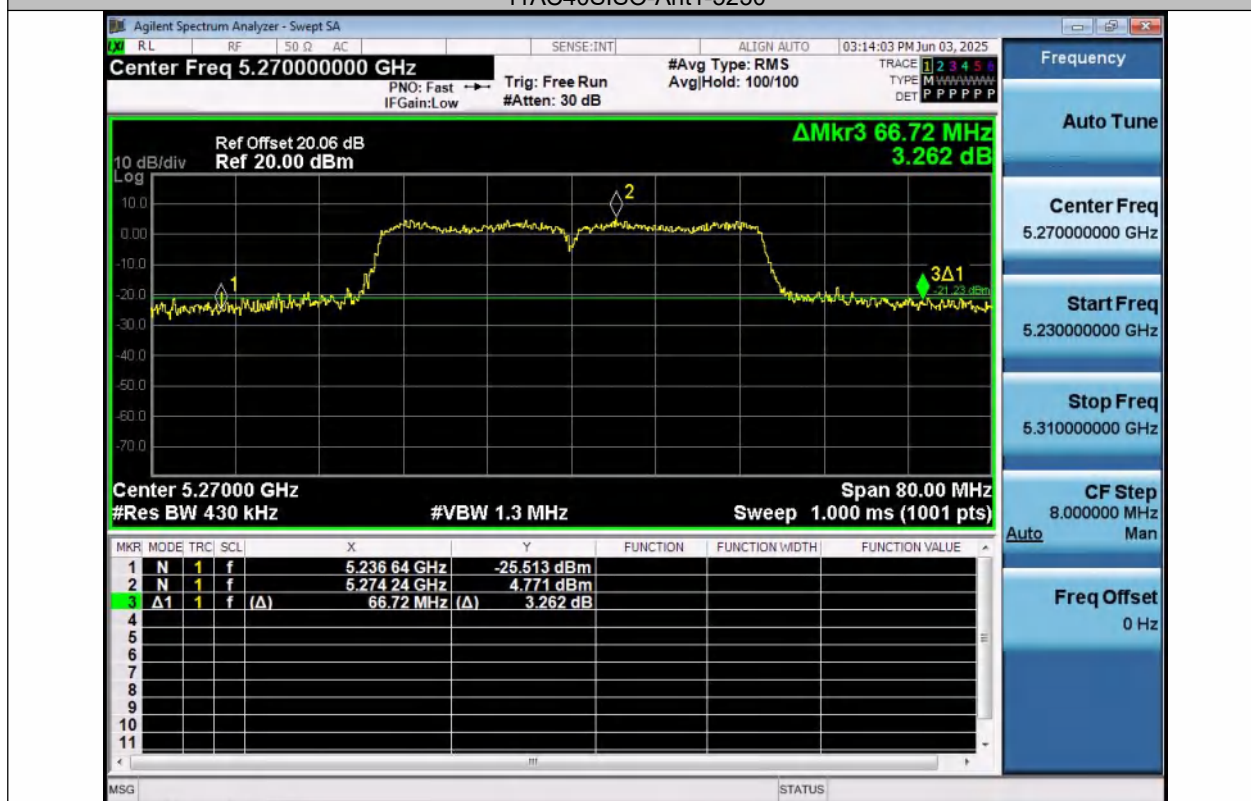
11AC20SISO-Ant1-5825



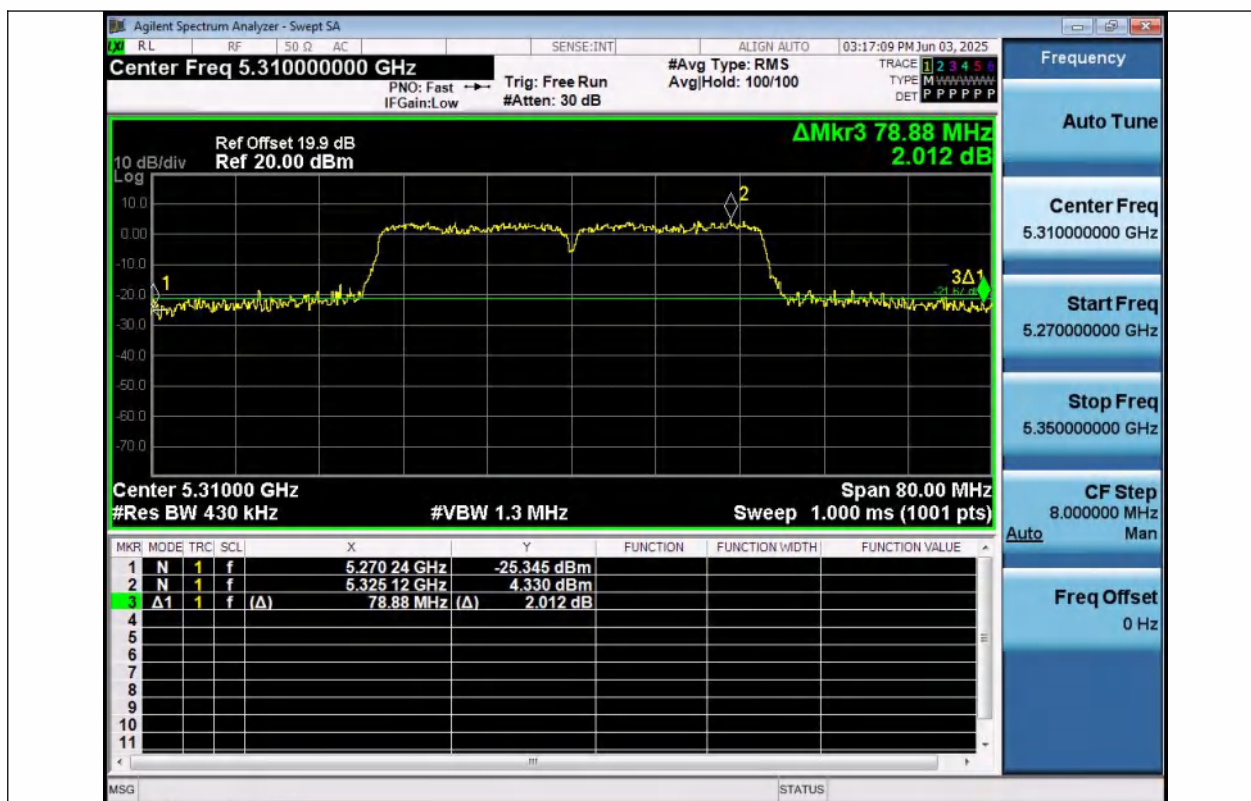
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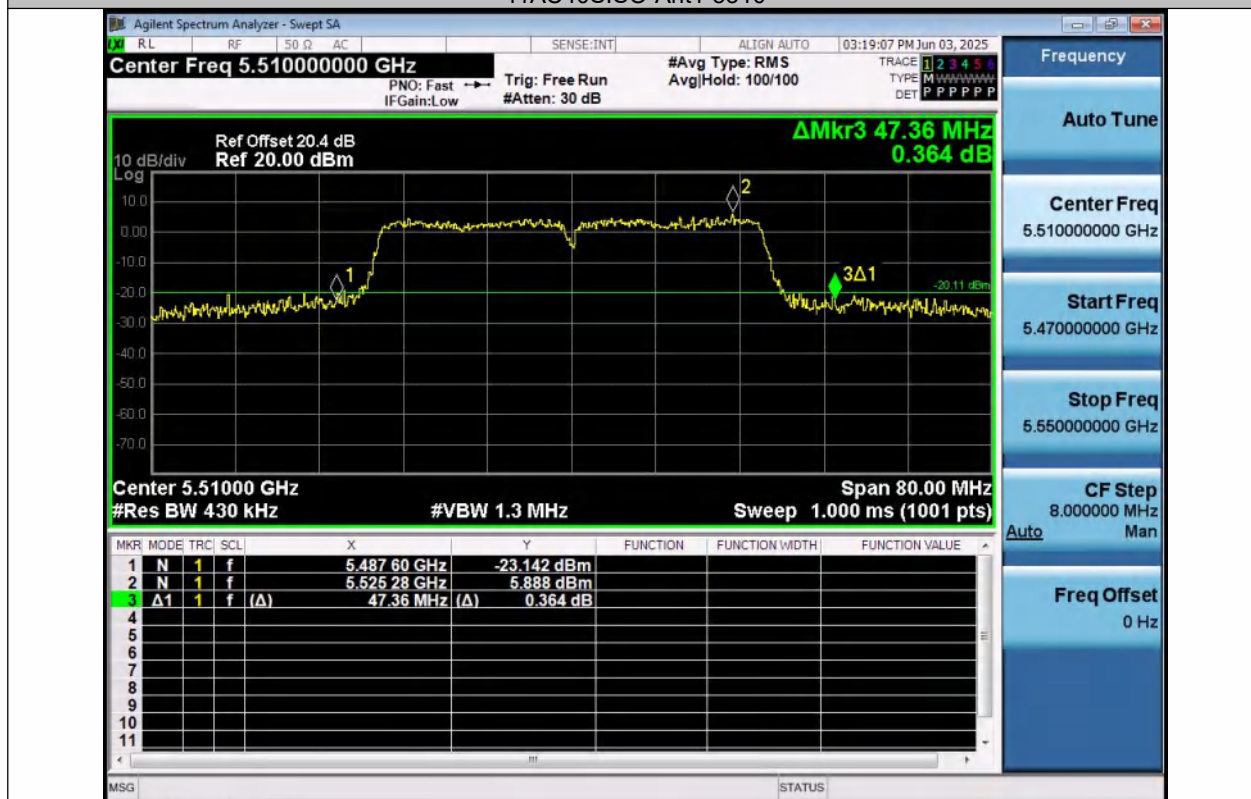
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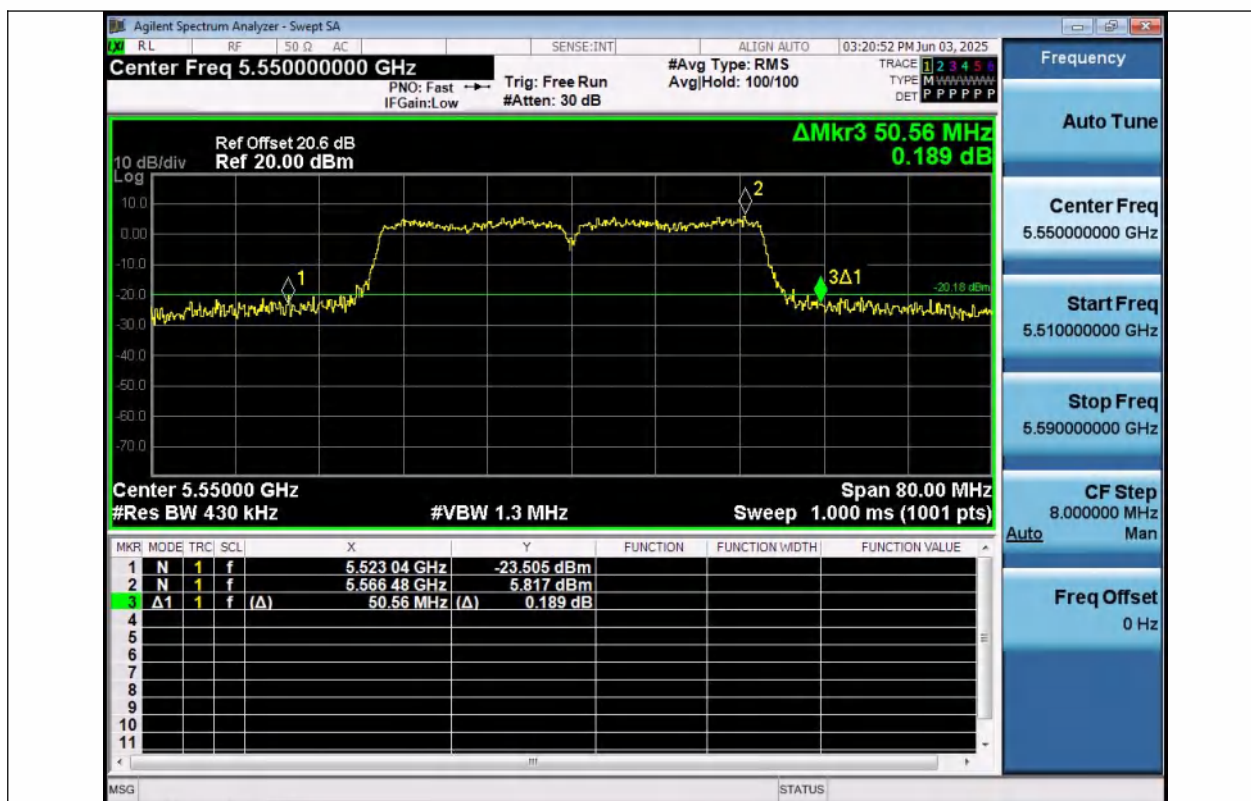
11AC40SISO-Ant1-5270



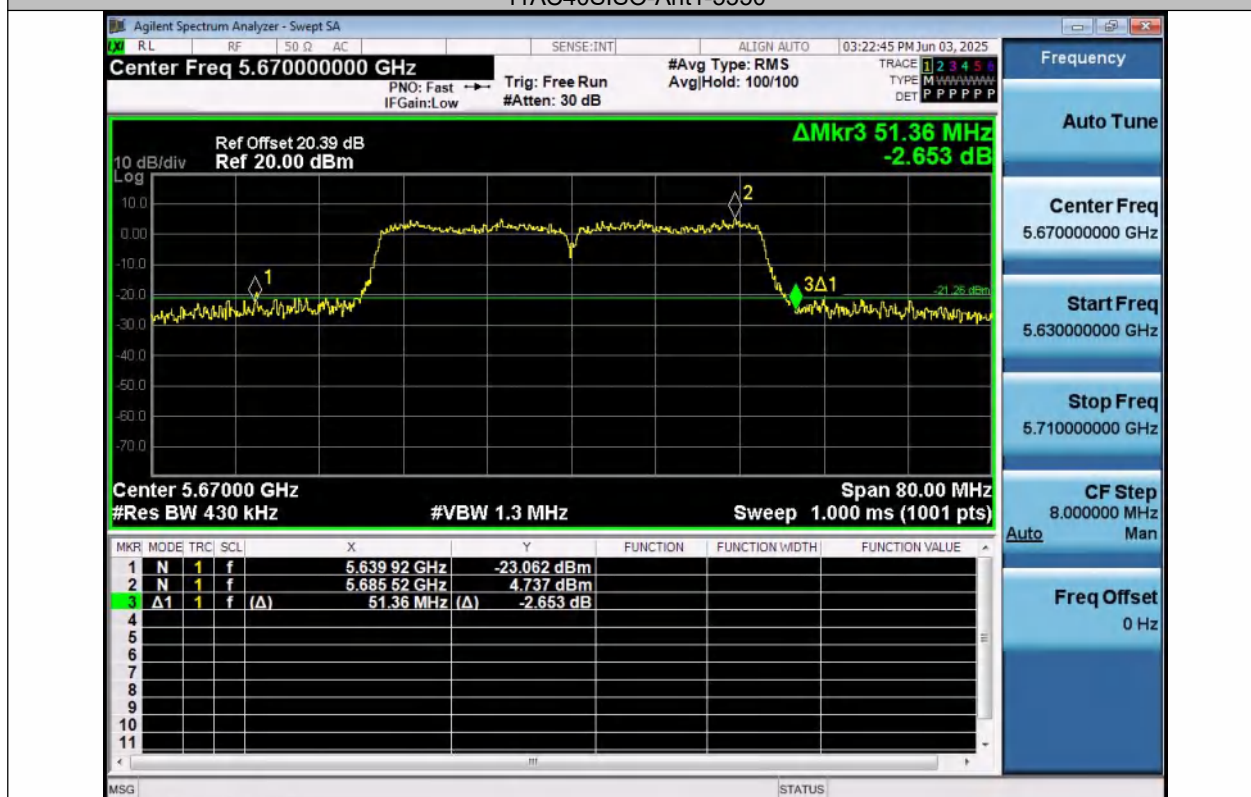
11AC40SISO-Ant1-5310



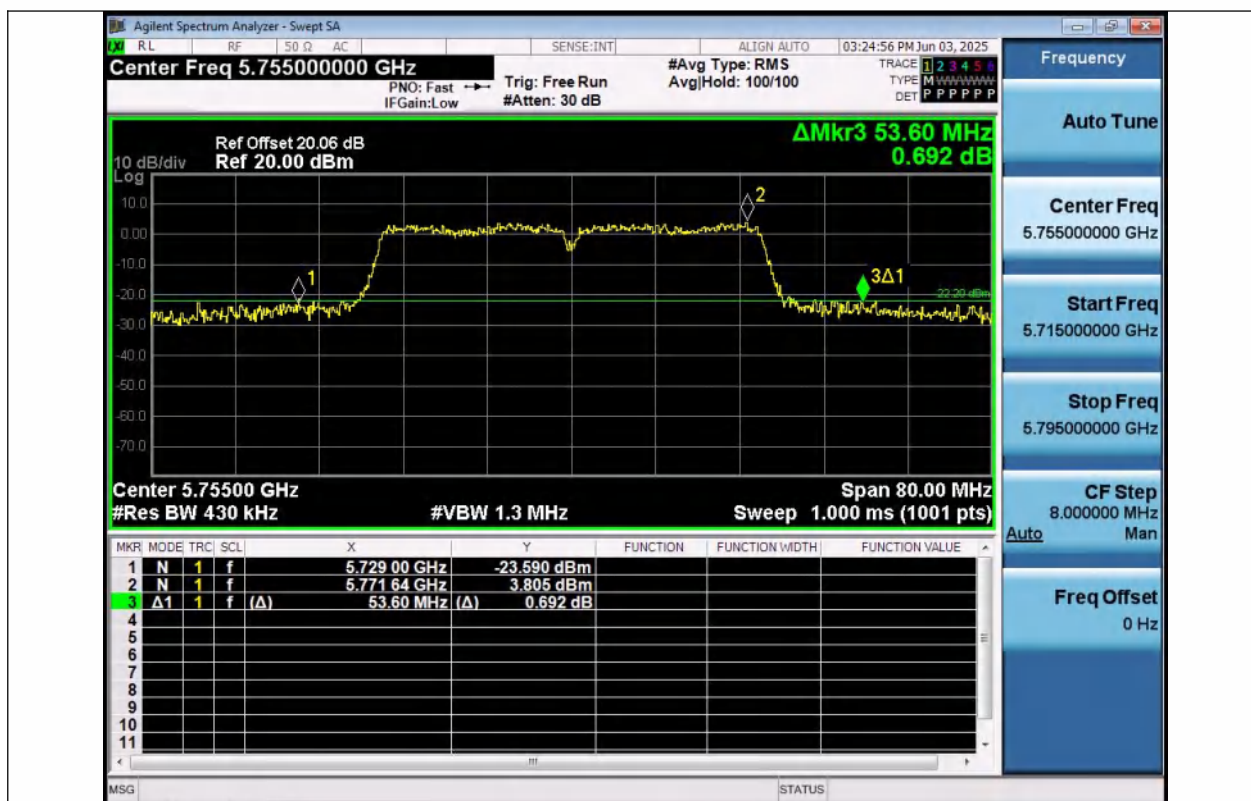
11AC40SISO-Ant1-5510



11AC40SISO-Ant1-5550



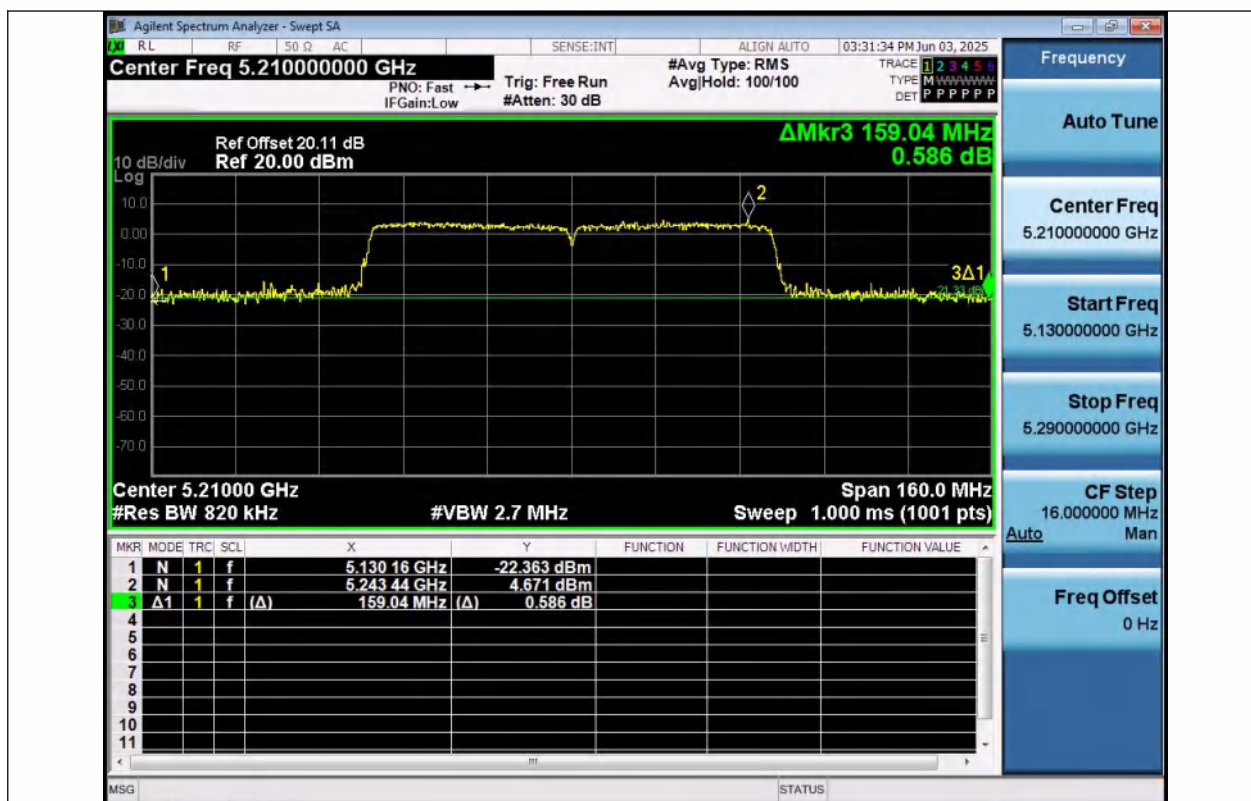
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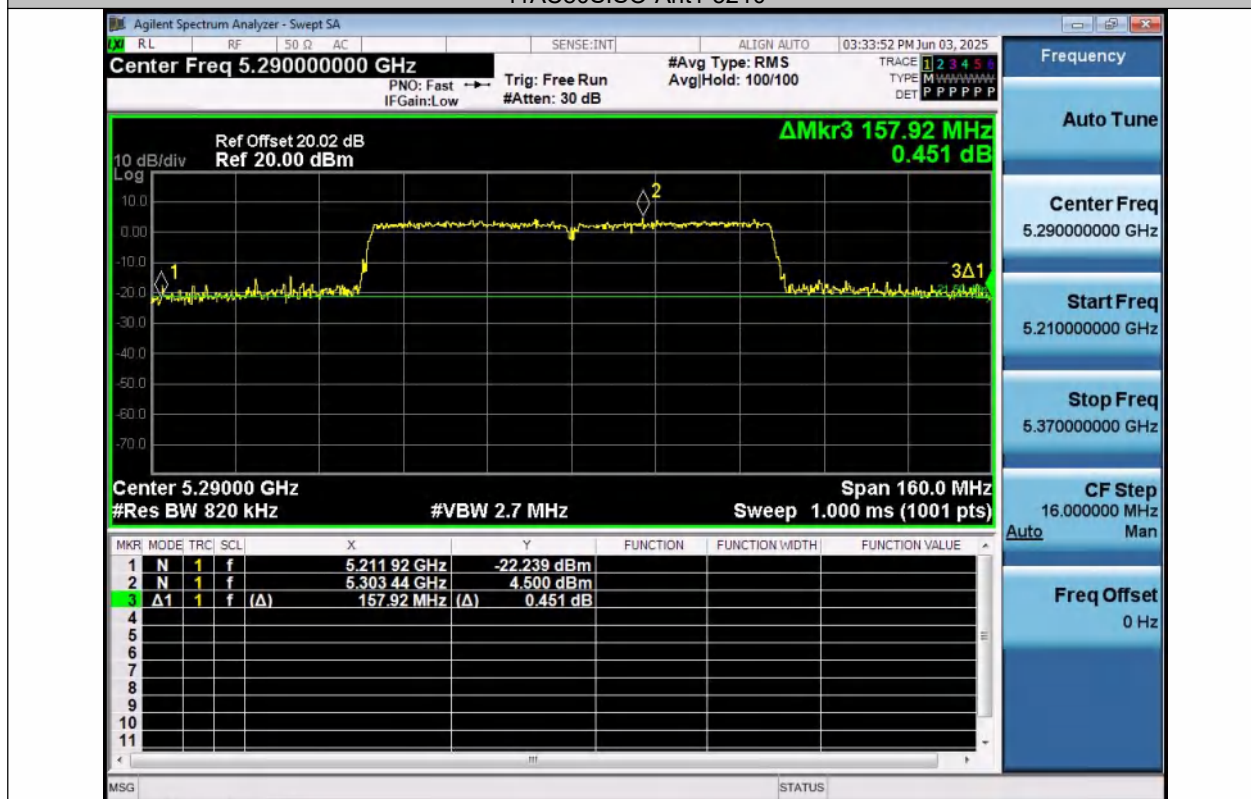
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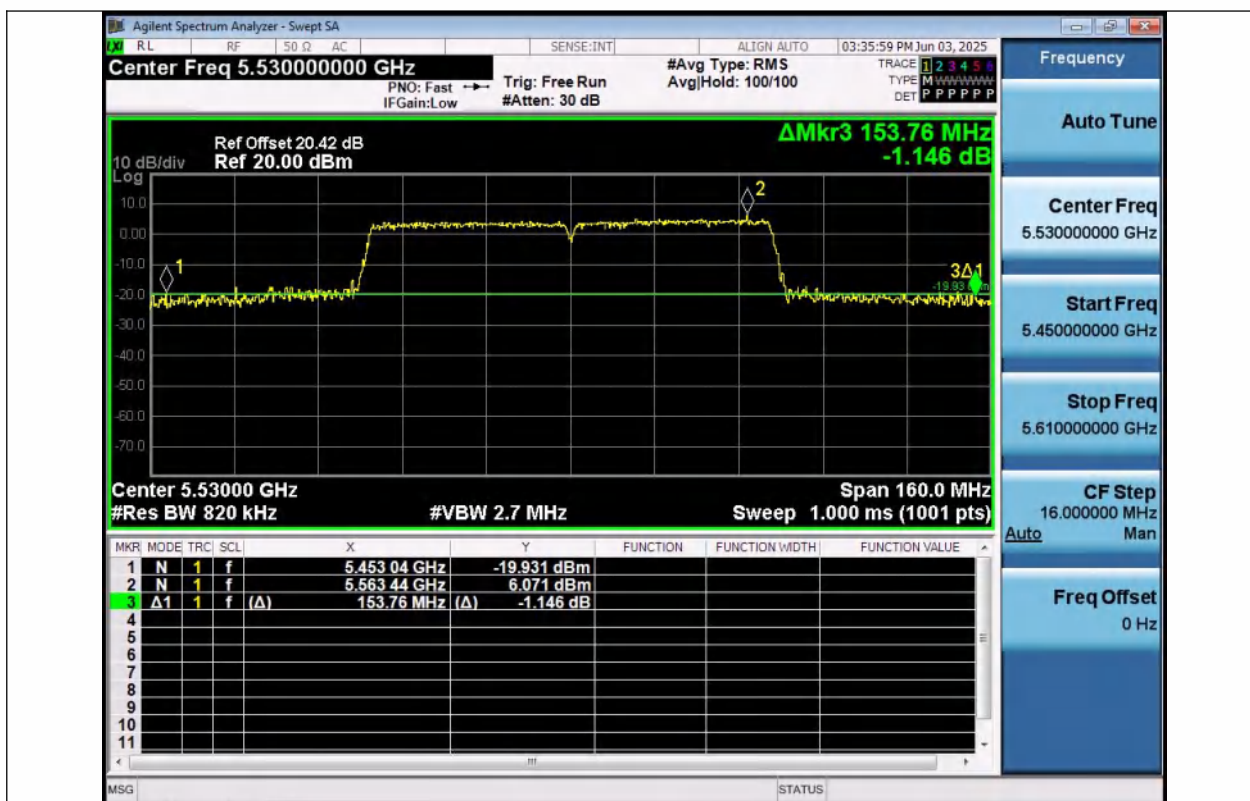
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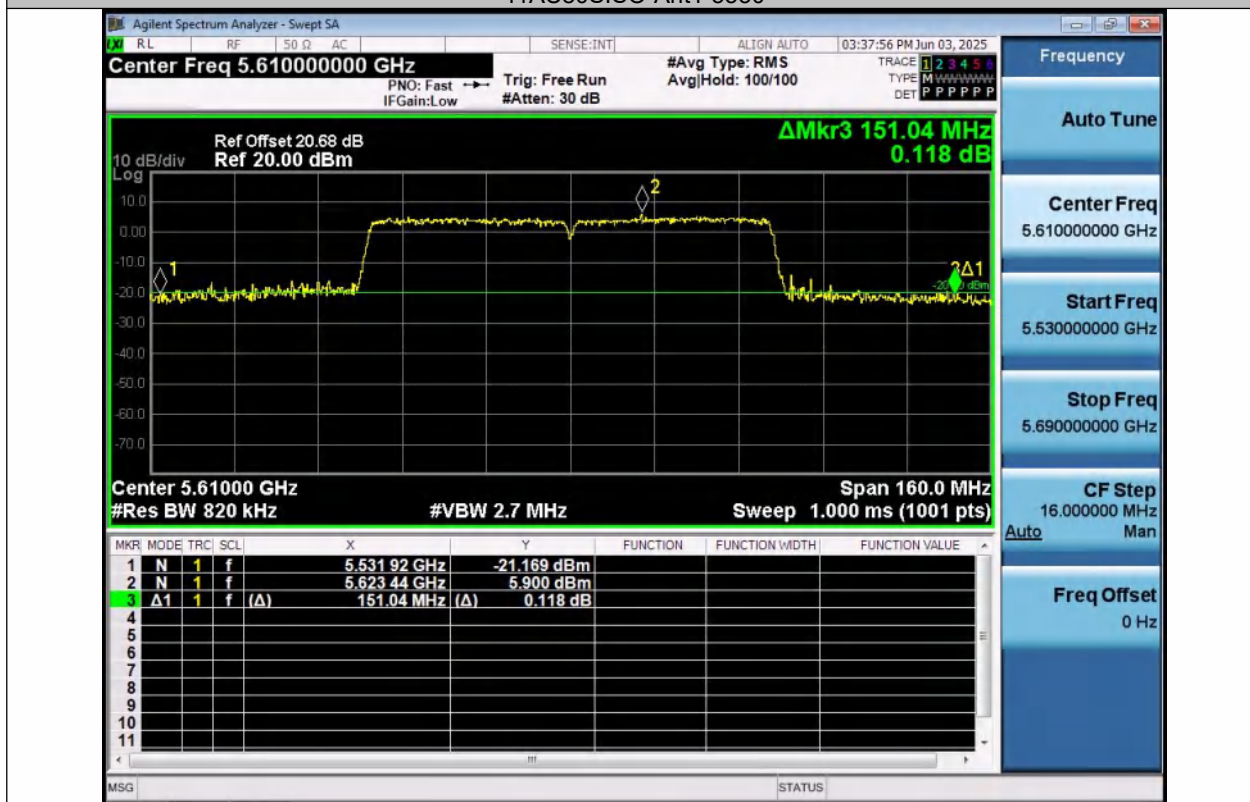
11AC80SISO-Ant1-5210



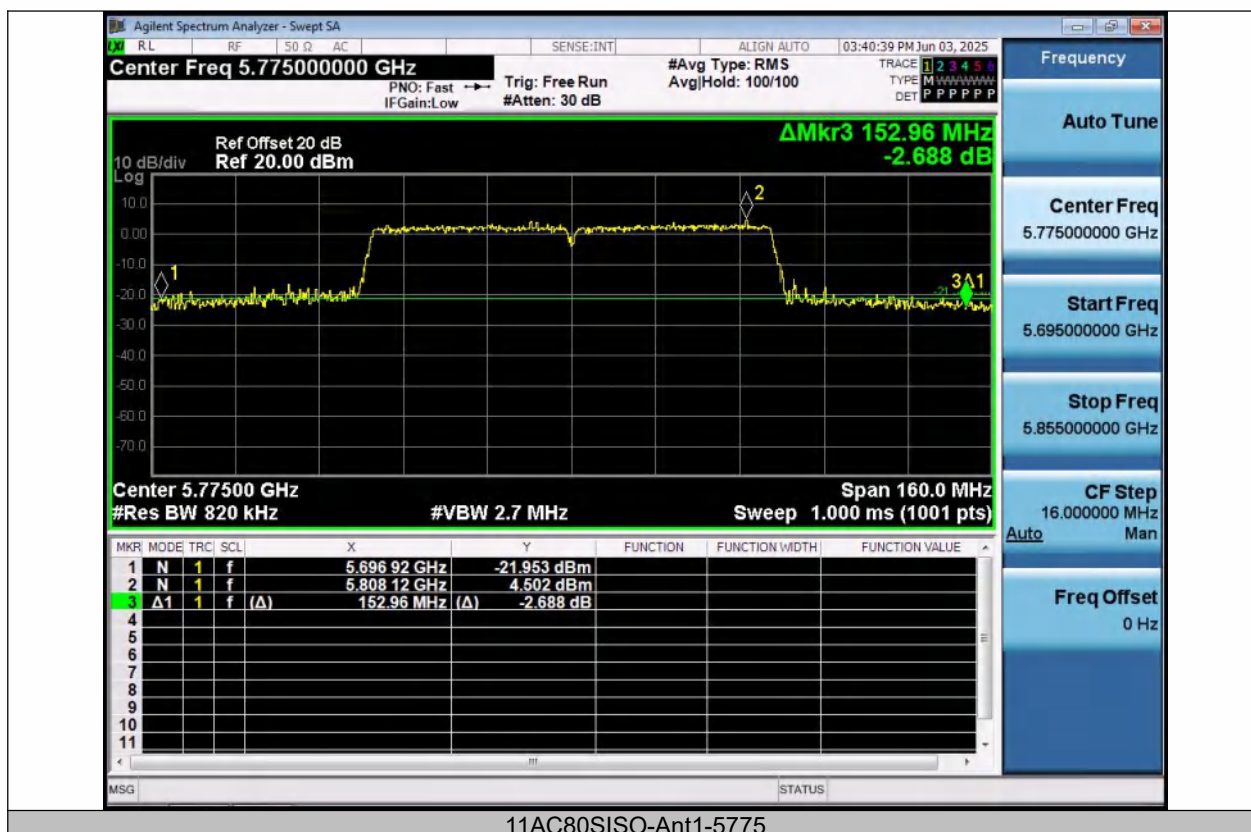
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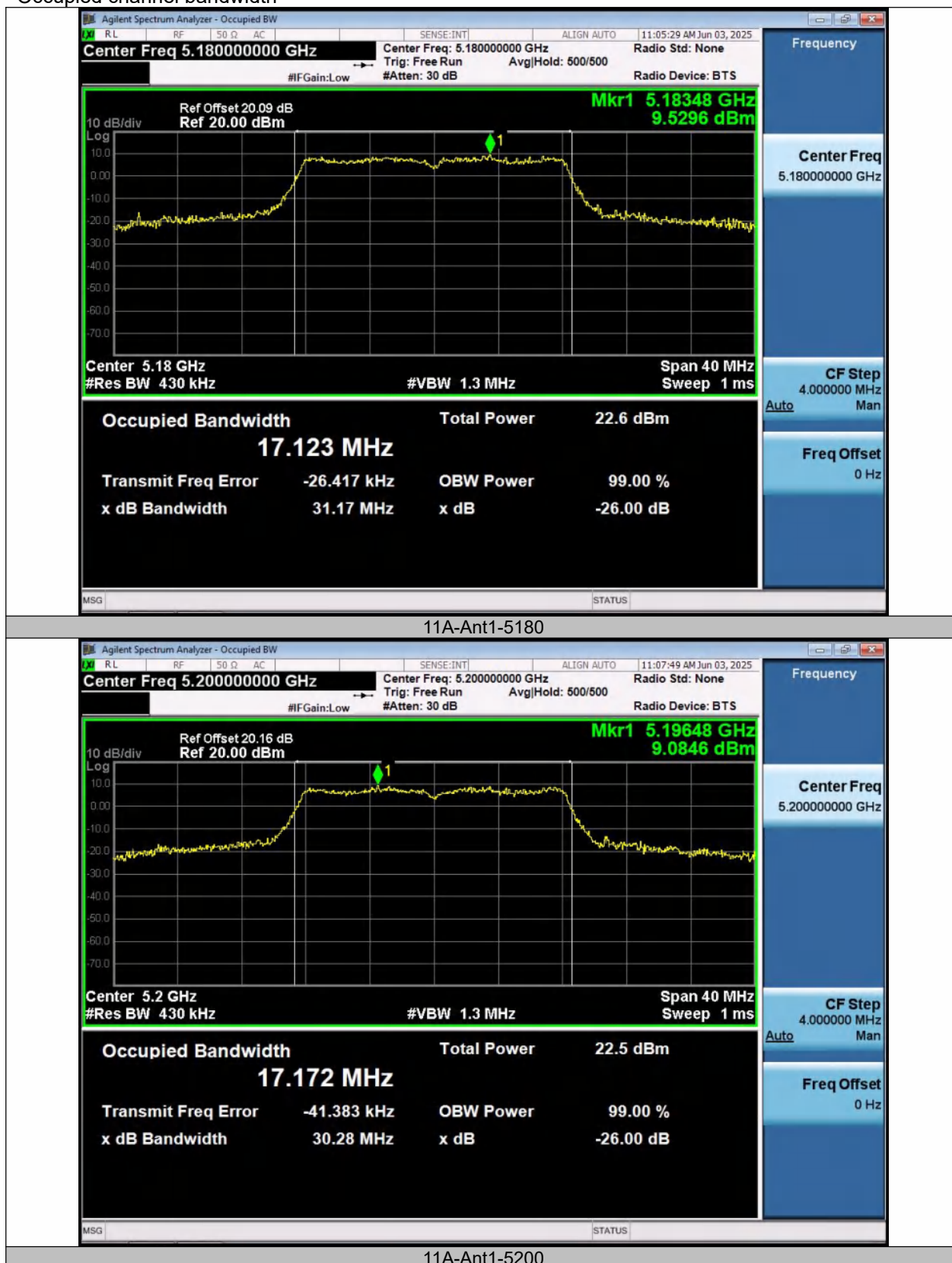
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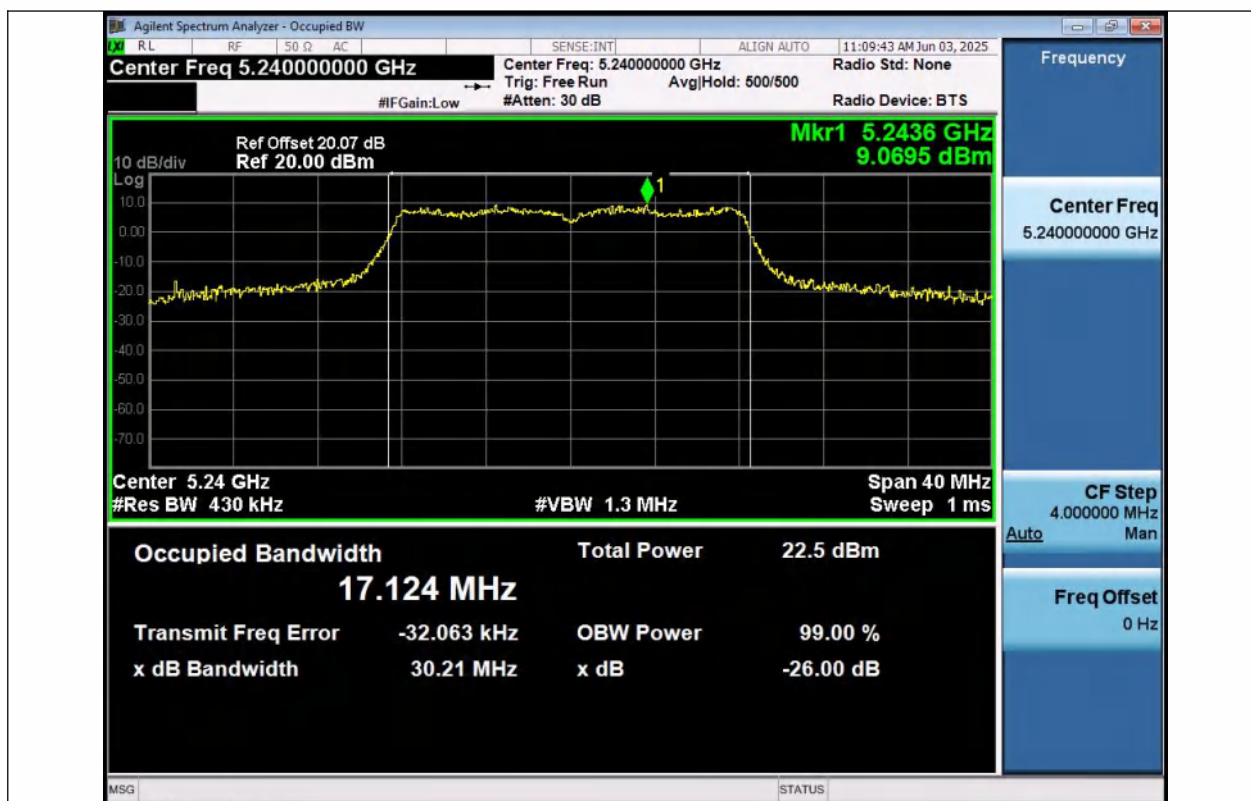


11AC80SISO-Ant1-5610

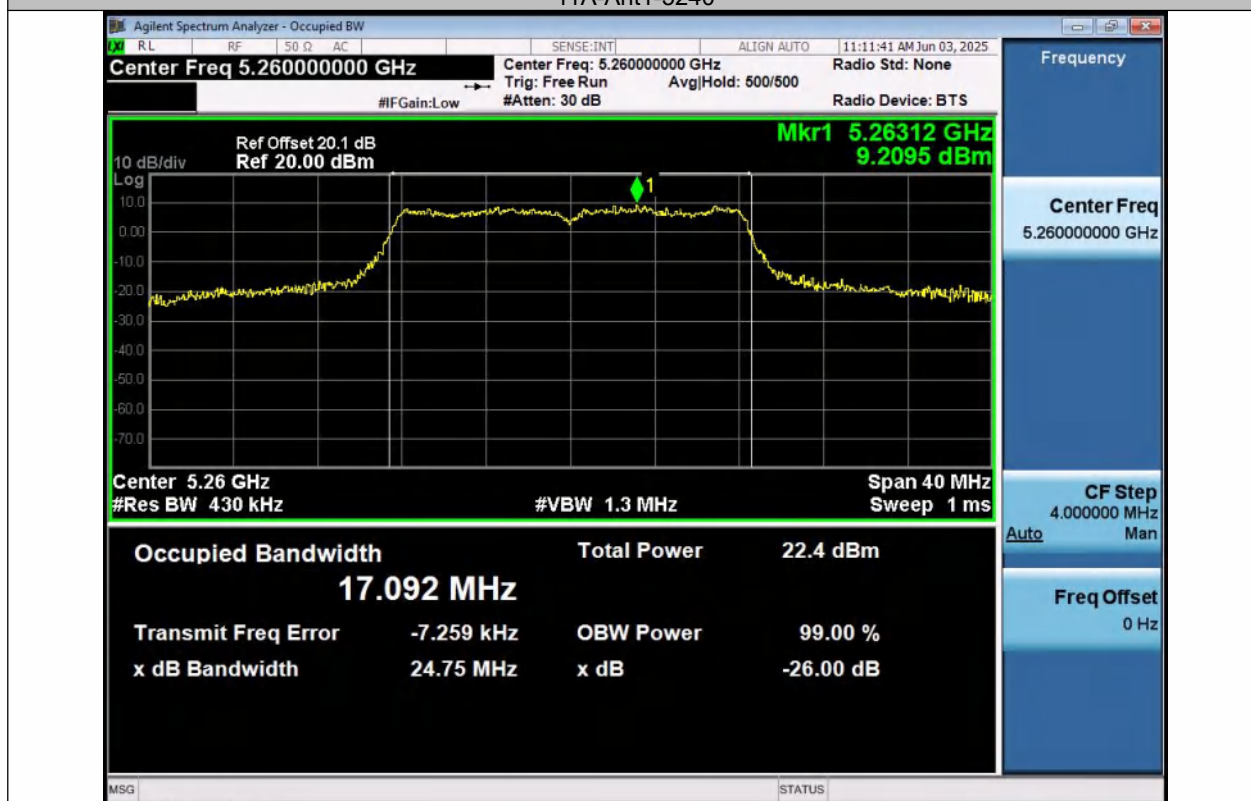


Occupied channel bandwidth

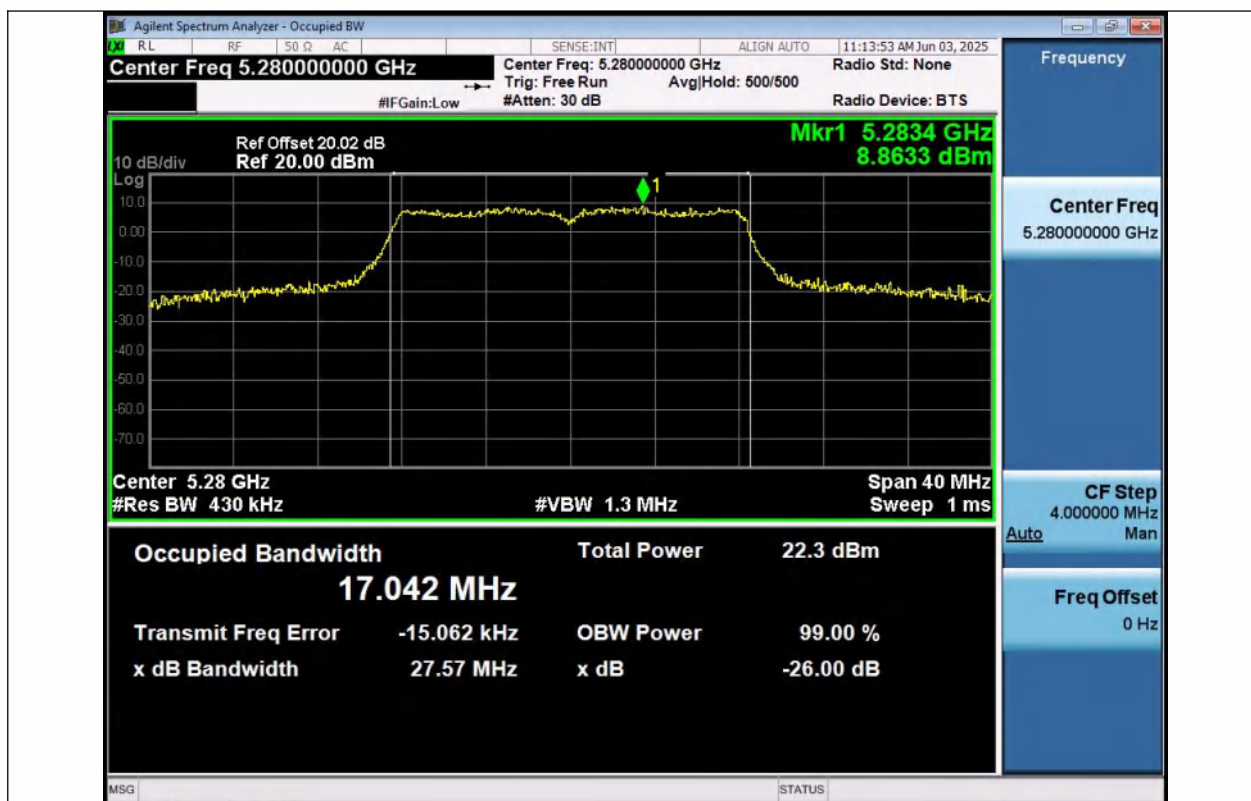




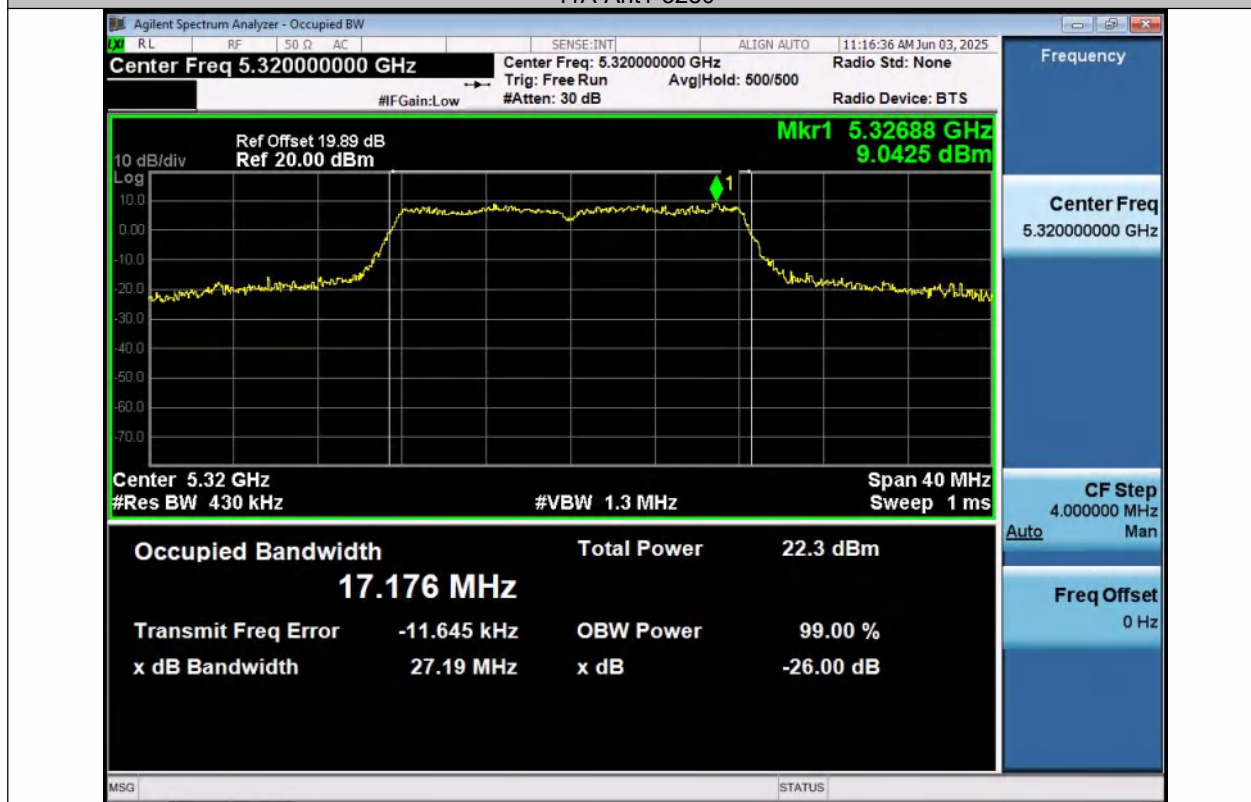
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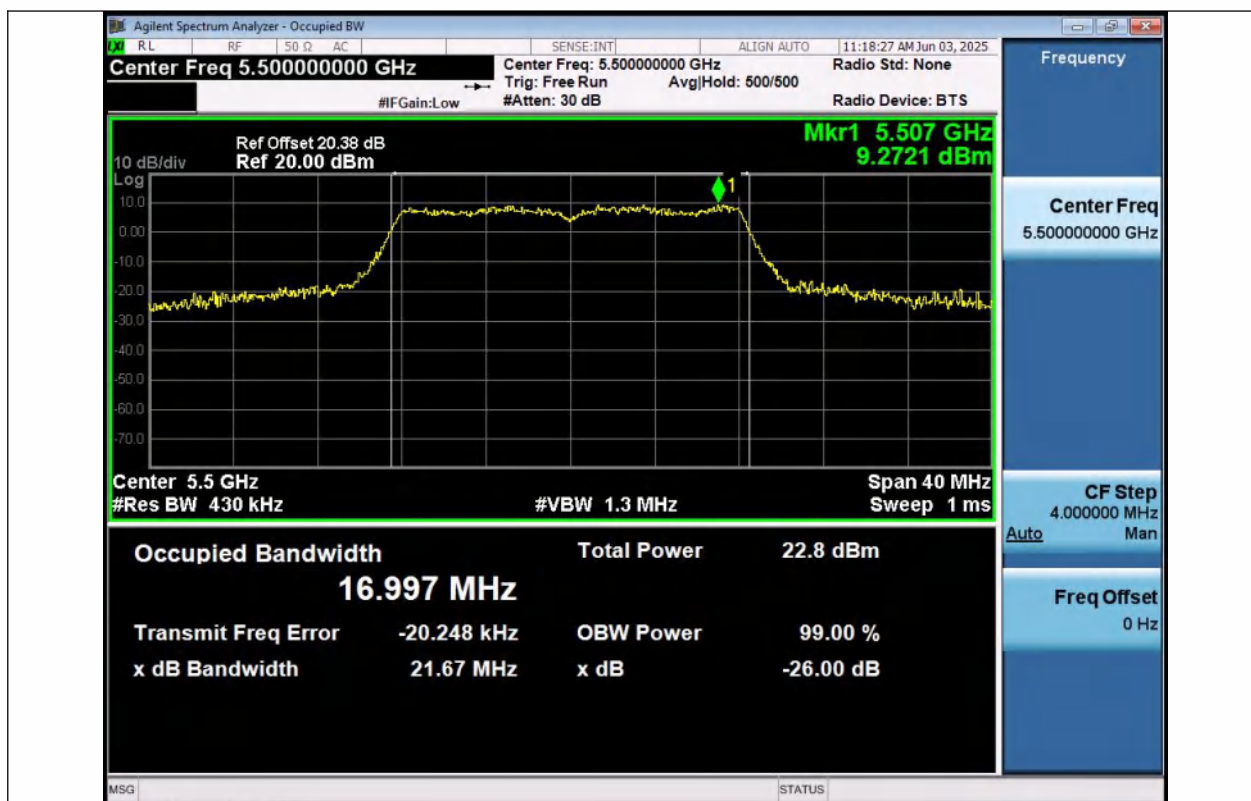
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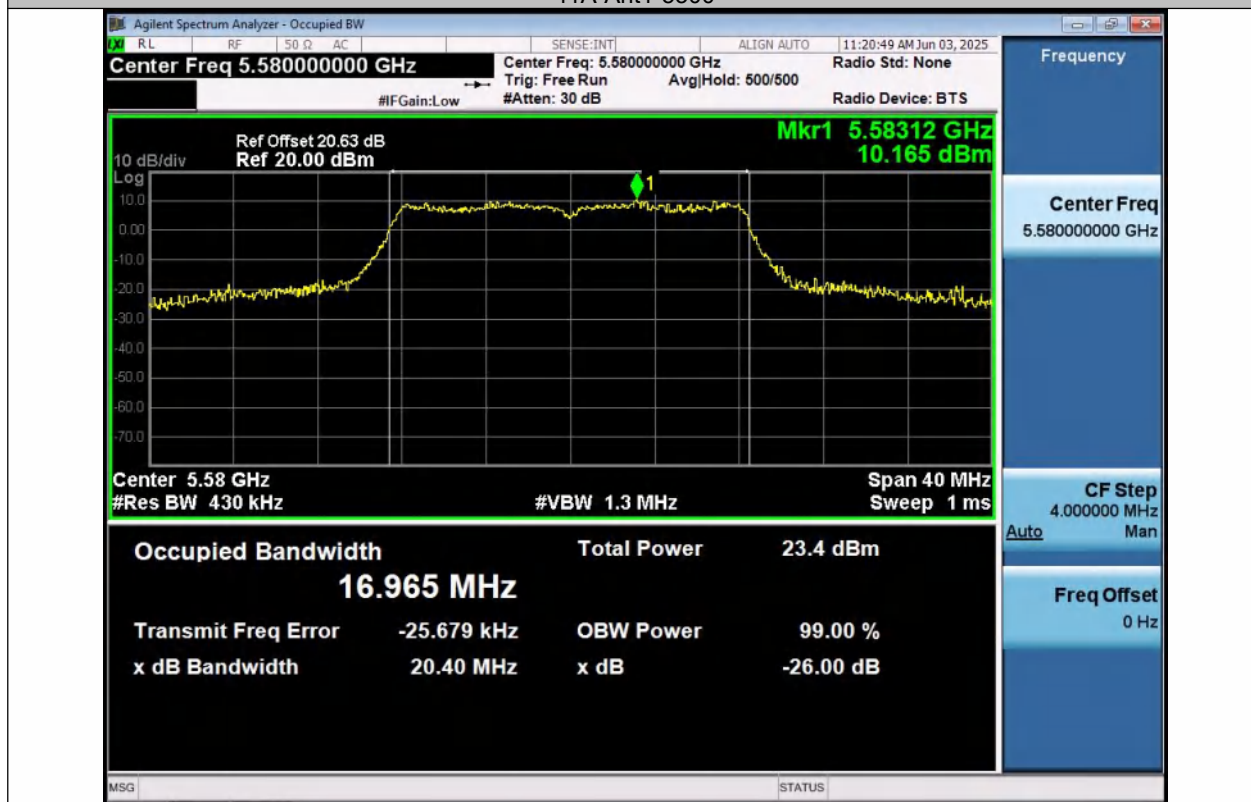
11A-Ant1-5280



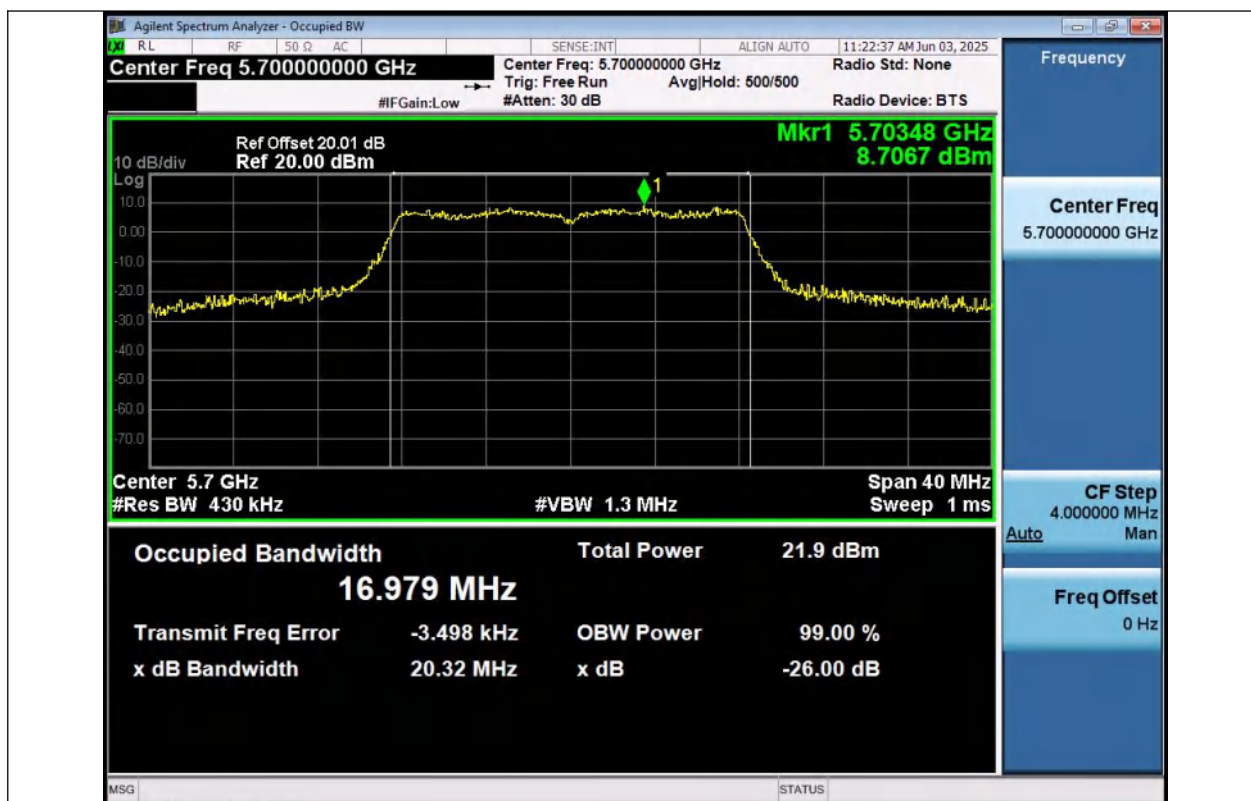
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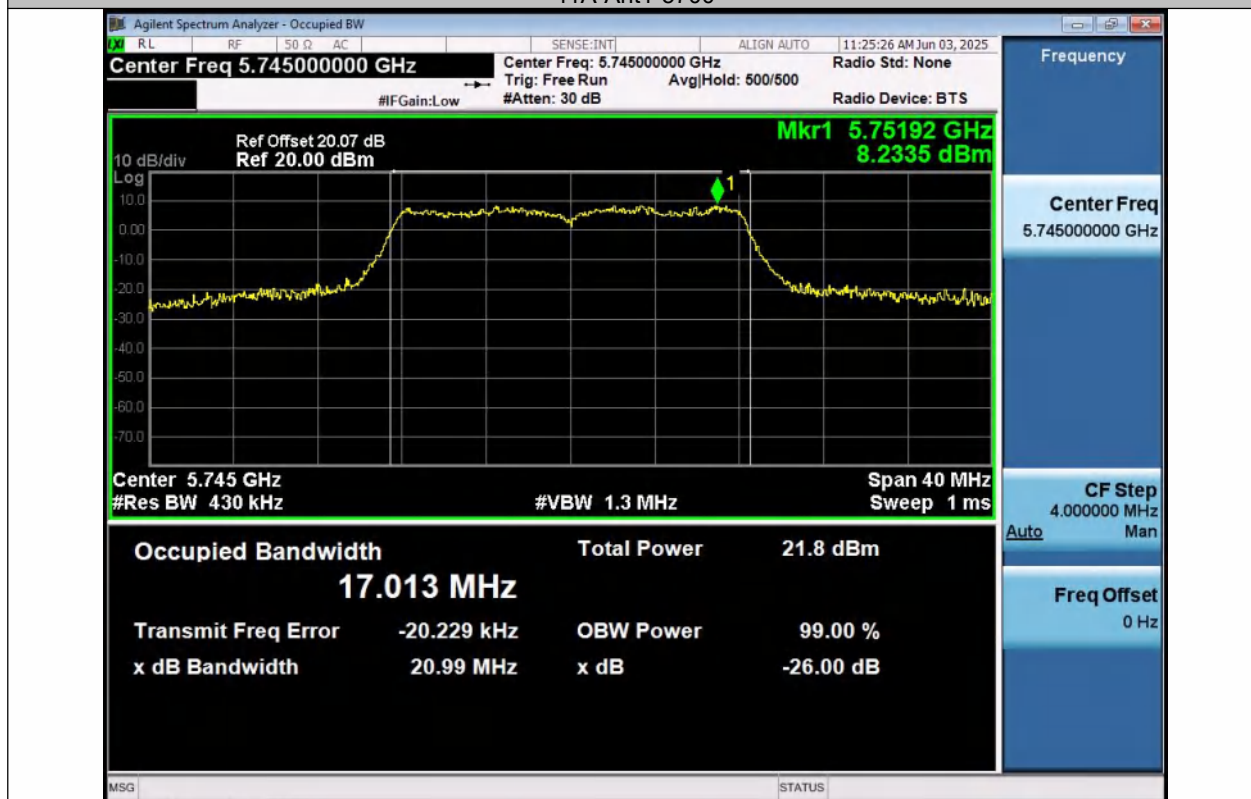
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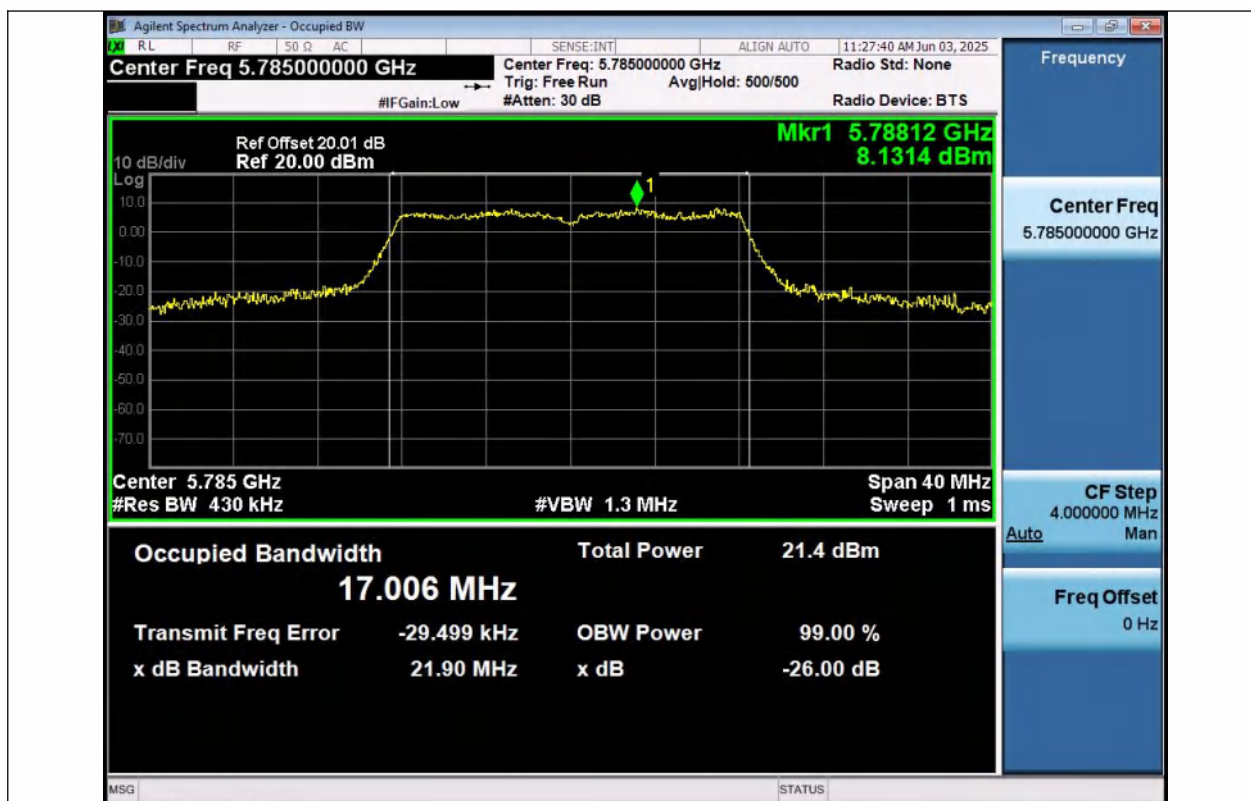
11A-Ant1-5580



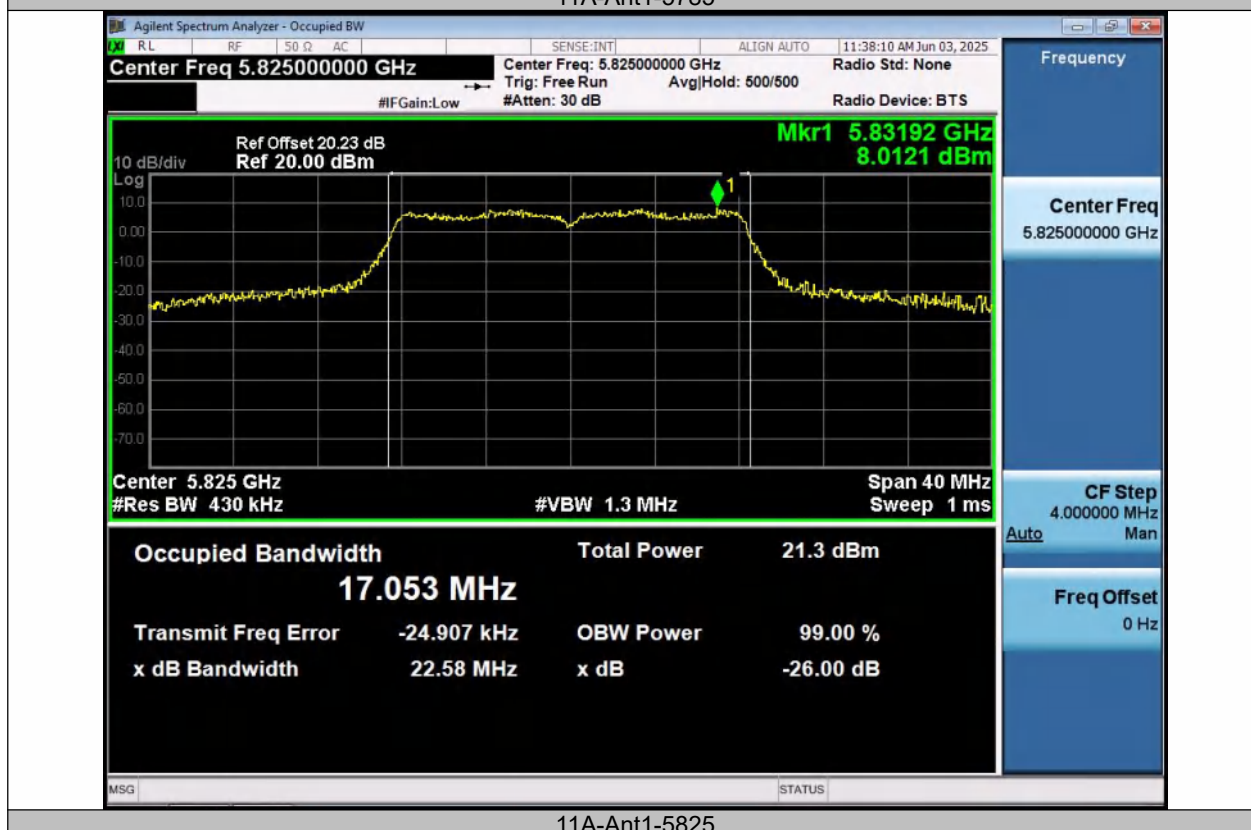
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11A-Ant1-5745

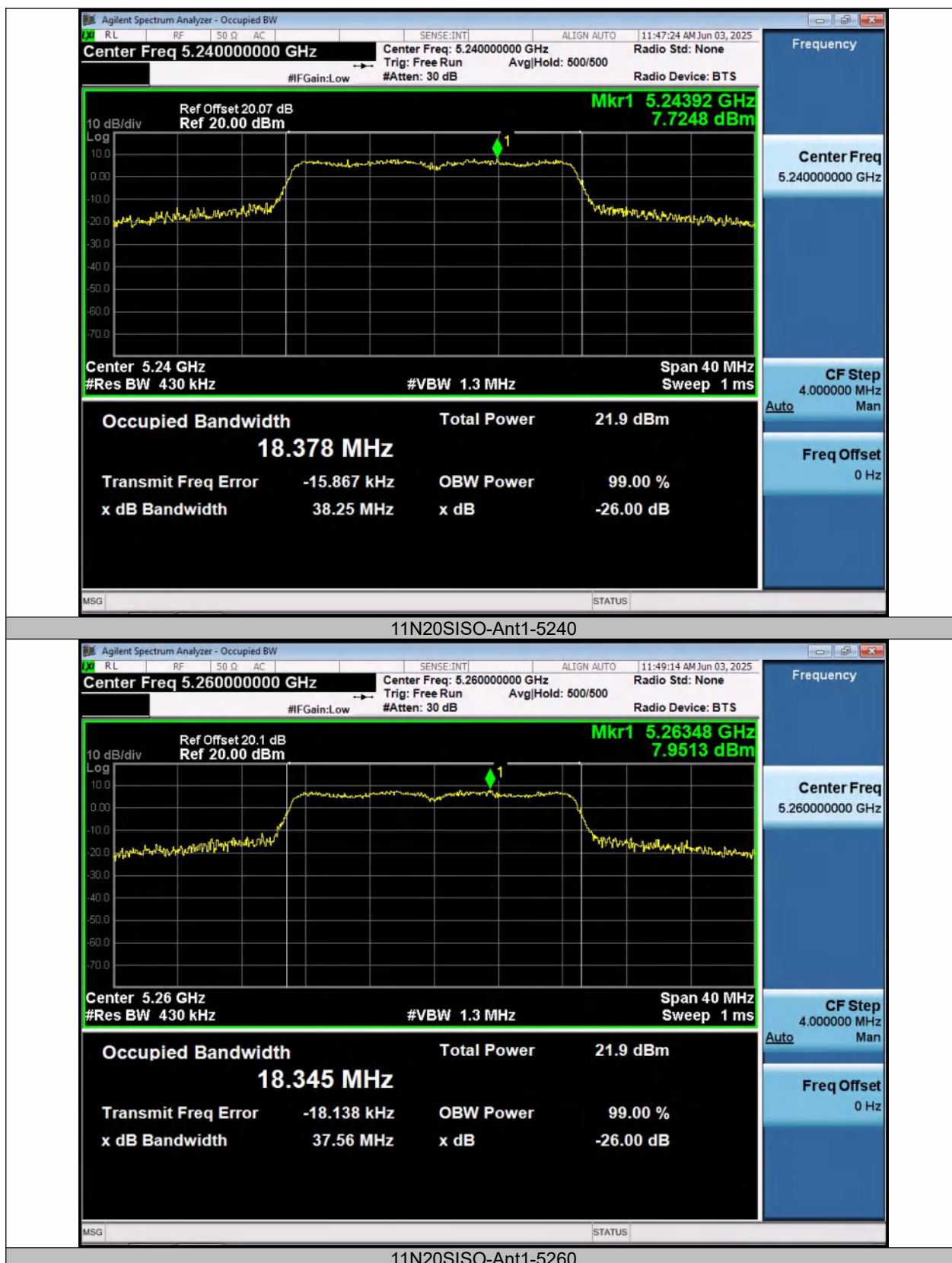


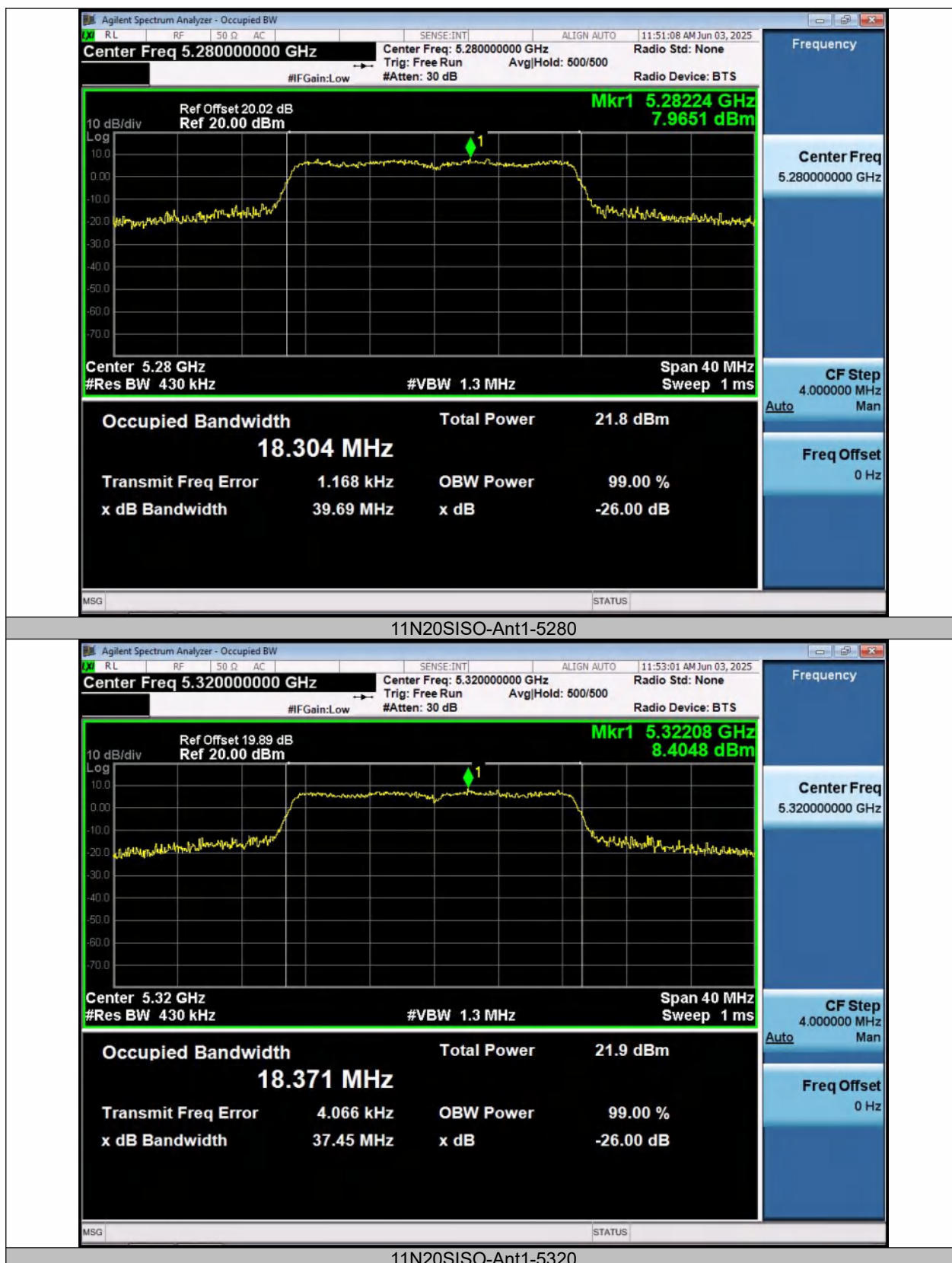
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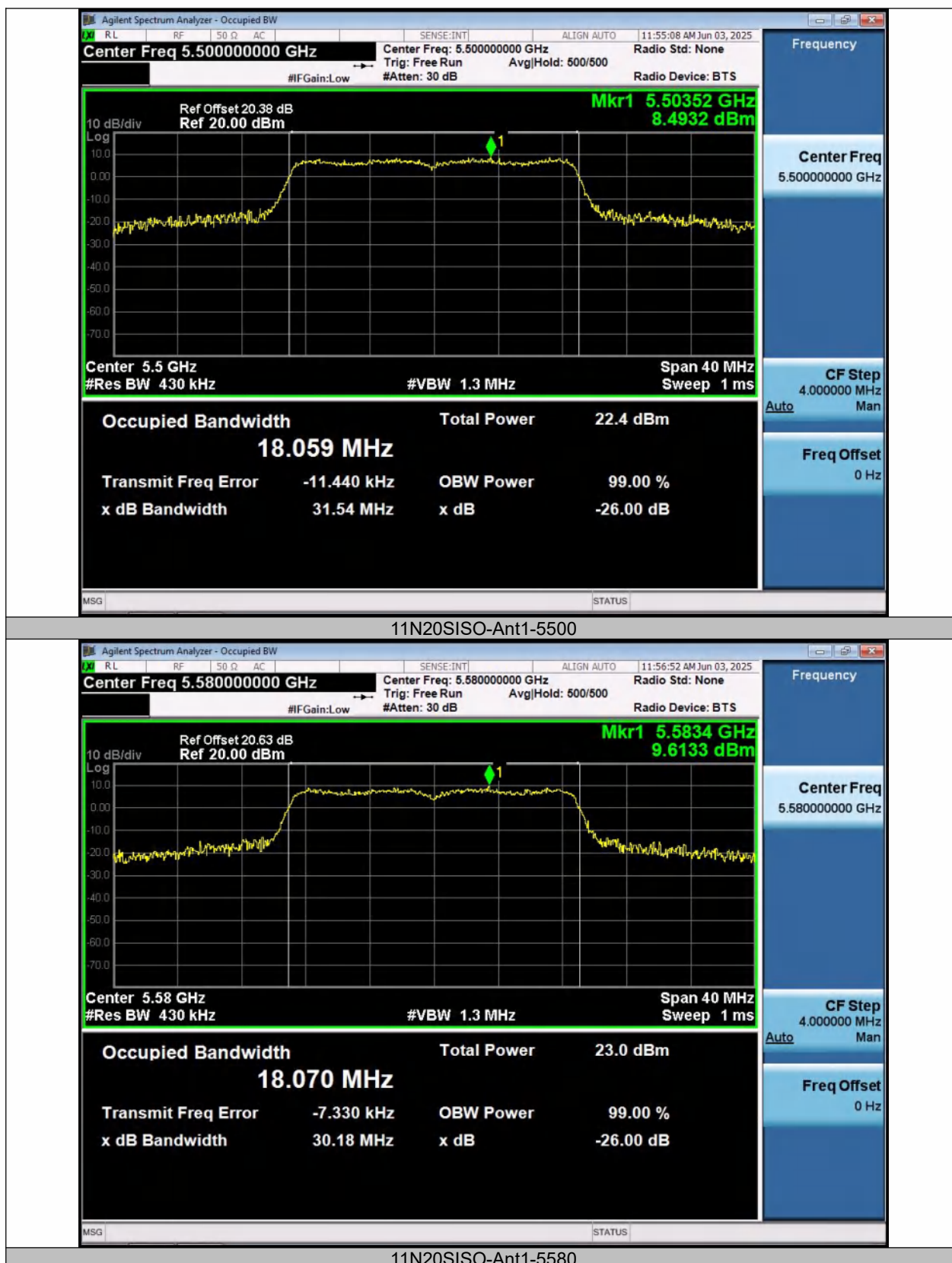


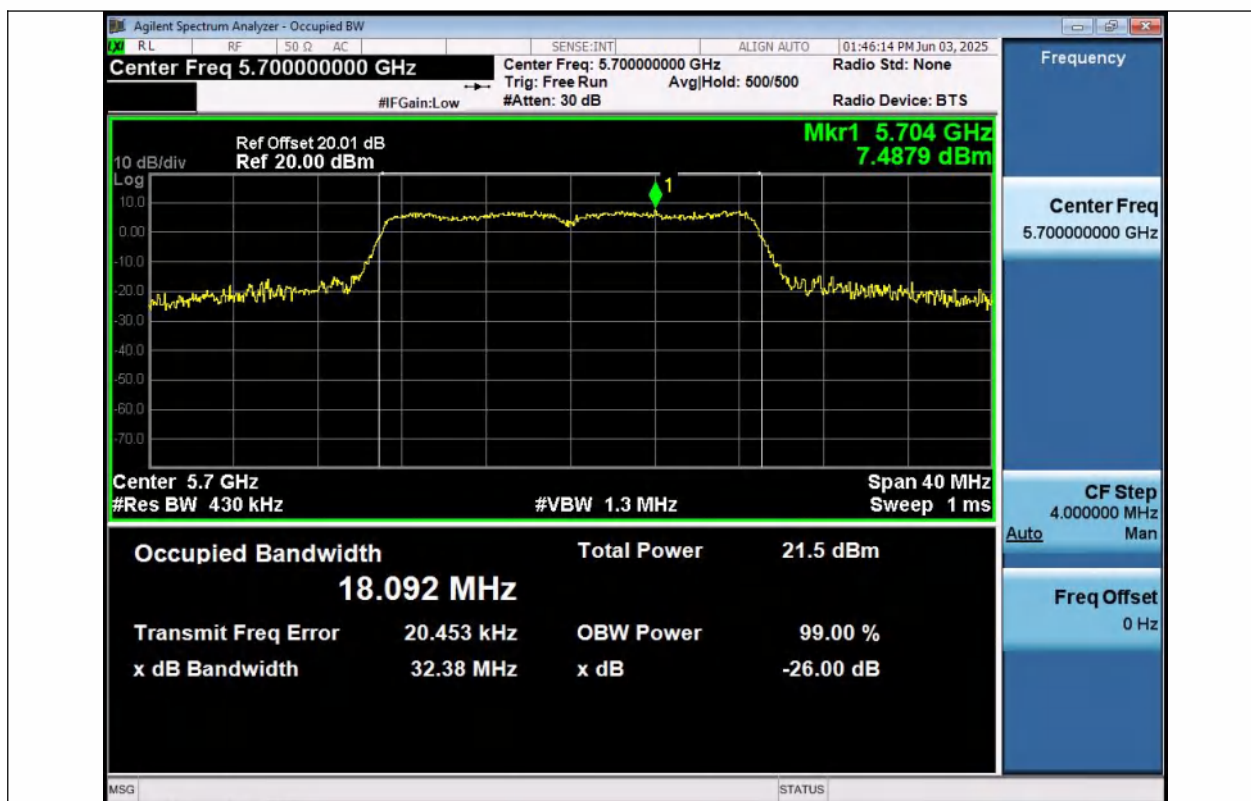
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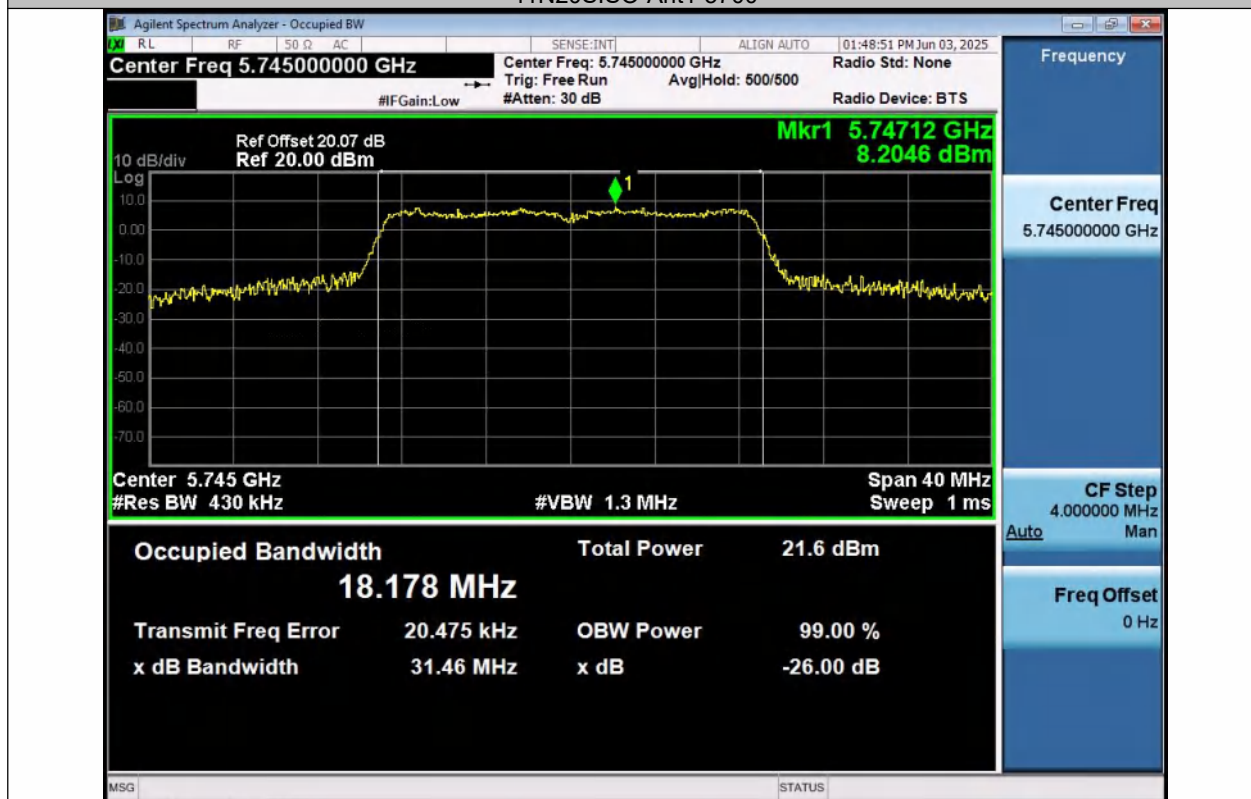








11N20SISO-Ant1-5700



11N20SISO-Ant1-5745

