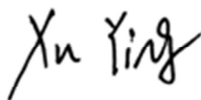


RF TEST REPORT

Applicant	Kiwibit Inc.
FCC ID	2BHUL-BW513
Product	Kiwibit Bird Feeder 2 Pro 4K AI Camera with Solar Panel
Brand	kiwibit
Model	BW513
Report No.	EFTA26040178-IE-08-R2V1
Issue Date	June 18, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



Prepared by: Xu Ying



Approved by: Xu Kai

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	June 8, 2026
Rev.1	Updated information.	June 18, 2026
Note: This revised report (Report No.: EFTA26040178-IE-08-R2V1) supersedes and replaces the previously issued report (Report No.: EFTA26040178-IE-08-R2). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of measurement results

Number	Test Case	Clause in FCC rules	Verdict
1	Average output power	15.407(a)	PASS
2	Occupied bandwidth	15.407(e)	PASS
3	Frequency stability	15.407(g)	PASS
4	Power spectral density	15.407(a)	PASS
5	Unwanted Emissions	15.407(b), 15.205, 15.209	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: May 7, 2026 ~ May 27, 2026 Date of Sample Received: April 14, 2026 Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
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Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Kiwibit Inc.
Applicant address	17880 Skypark Circle, Suite 260, Irvine, CA 92614
Manufacturer	Kiwibit Inc.
Manufacturer address	17880 Skypark Circle, Suite 260, Irvine, CA 92614

2.2. General information

EUT Description		
Model	BW513	
SN	Conducted	KC18DGQRF0159
Lab internal SN	Radiated	260415-12-006
Hardware Version	KF451_C01_V3	
Software Version	1.21.0	
Power Supply	Battery; External power supply	
Antenna Type	Internal Antenna	
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)	
Antenna Gain	U-NII-1: 1.81 dBi U-NII-2A: 1.82 dBi U-NII-2C: 1.97 dBi U-NII-3: 1.69 dBi	
Operating Frequency Range(s)	U-NII-1: 5150MHz-5250MHz U-NII-2A: 5250MHz -5350MHz U-NII-2C: 5470MHz-5725MHz U-NII-3: 5725MHz -5850MHz	
Modulation Type	802.11a: OFDM 802.11n (HT20): OFDM 802.11ac (VHT20): OFDM 802.11ax SU(HE20): OFDMA	
Max. Output Power	U-NII-1: 19.95 dBm (0.099 W)	
	U-NII-2A: 19.92 dBm (0.098 W)	
	U-NII-2C: 19.60 dBm (0.091 W)	
	U-NII-3: 17.80 dBm (0.060 W)	
Operating temperature range	-20 ° C to 50 ° C	
Operating voltage range	2.75 VDC to 4.2 VDC	
Testing temperature range	-30 ° C to 50° C	
Testing voltage range	2.75 VDC – 3.6 VDC – 4.2 VDC	
State voltage	3.6 VDC	

EUT Accessory	
Battery	<p>Manufacturer: Kiwibit Inc.</p> <p>Model: BA421</p> <p>USB type-C input: 5V$\overline{\text{---}}$ 700mA</p> <p>Rating: 3.6V$\overline{\text{---}}$ 5200mAh, 18.72Wh</p>
Auxiliary Test Equipment	
PC	<p>Manufacturer: DELL</p> <p>Model: Latitude 3301</p>
Adapter	<p>Manufacturer: HUAWEI</p> <p>Model: HW-050200E02</p> <p>Output: 5.0V$\overline{\text{---}}$ 2.0A</p>
USB Cable	75cm Cable, Shielded
<p>Note:</p> <ol style="list-style-type: none"> 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. This device support automatically discontinue transmission, while the device is not transmitting any information, the device can automatically discontinue transmission and become standby mode for power saving. The device can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission. 3. (a) Manufacturers implements security features in any digitally modulated devices capable of operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software prevents the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers uses means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization. (b) Manufacturers take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device. 	

3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 15E Unlicensed National Information Infrastructure Devices

ANSI C63.10-2020+Cor.1-2023

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

4. Test Configuration

Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on all the configuration for confirming worst case. Data rate below means worst-case rate of each test item.

The test software is used Xshell-8.0.0069p.

Worst-case data rates are shown as following table.

Mode	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11ac VHT20	MCS0
802.11ax HE20	MCS0

Wireless Technology and Frequency Range

Wireless Technology		Bandwidth	Channel	Frequency
Wi-Fi	U-NII-1	20 MHz	36	5180MHz
			40	5200MHz
			44	5220MHz
			48	5240MHz
	U-NII-2A	20 MHz	52	5260MHz
			56	5280MHz
			60	5300MHz
			64	5320MHz
	U-NII-2C	20 MHz	100	5500MHz
			104	5520MHz
			108	5540MHz
			112	5560MHz
			116	5580MHz
			120	5600MHz
			124	5620MHz
			128	5640MHz
			132	5660MHz
			136	5680MHz
			140	5700MHz
			144	5720MHz
	U-NII-3	20 MHz	149	5745MHz
			153	5765MHz
			157	5785MHz
			161	5805MHz
			165	5825MHz
Does this device support TPC Function? ☐ Yes ☒ No				
Does this device support TDWR Band? ☒ Yes ☐ No				

5. Test Case

5.1. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
25°C	57%	101.3 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator and a known loss cable.

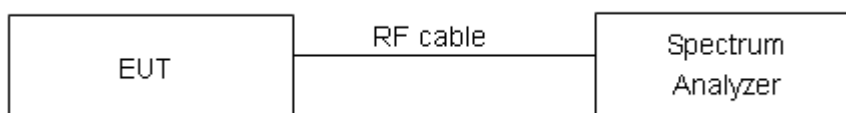
For U-NII-1/U-NII-2A/U-NII-2C, set RBW = 1% to 5% of the emission bandwidth, VBW > RBW, Detector = peak, Trace mode = max hold, measure the maximum width of the emission that is 26 dB down from the peak of emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

For U-NII-3, Set RBW = 100 kHz, $VBW \geq 3 \times RBW$, Detector = peak, Trace mode = max hold, 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.

Use the 99 % power bandwidth function of the instrument.

Test Setup



Limits

For U-NII-1/U-NII-2A/U-NII-2C

No specific occupied bandwidth requirements in Part 15.407.

For U-NII-3

Rule FCC Part §15.407(e)

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

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

5.2. Average Power Output

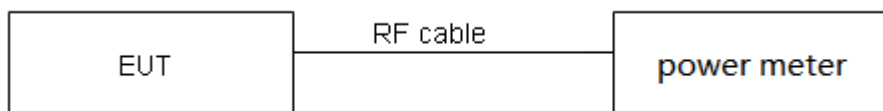
Ambient condition

Temperature	Relative humidity	Pressure
25°C	57%	101.3 kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the average power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

Test Setup



Limits

Rule FCC Part 15.407(a)(1) / FCC Part 15.407(a) (2) / FCC Part 15.407(a) (3)

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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. 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).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 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 17 dBm in any 1 megahertz band. 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. 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.

(iv) For 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 $11 \text{ dBm} + 10 \log B$, 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.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44 \text{ dB}$.

5.3. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
25°C	57%	101.3 kPa

Method of Measurement

1. Frequency stability with respect to ambient temperature

- Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
- Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.
- Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- Measure the frequency at each of frequencies specified in 5.6.
- Switch OFF the EUT but do not switch OFF the oscillator heater.
- Lower the chamber temperature by not more than 10°C, and allow the temperature inside the chamber to stabilize.
- Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15°C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.

- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limit

Manufacturers 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 users manual.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936\text{Hz}$

5.4. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
25°C	57%	101.3 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator and a known loss cable.

For U-NII 1/2A/2C

Set span to encompass the entire 99% OBW of the signal

RBW = 1MHz

VBW = 3MHz

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$

Sweep time = auto

Detector = RMS

For U-NII 3

Set span to encompass the entire 99% OBW of the signal

RBW = 500kHz (510kHz if the SA can not set 500kHz, add $10 \log (500 \text{ kHz} / \text{RBW})$ to the test result)

VBW = 2MHz

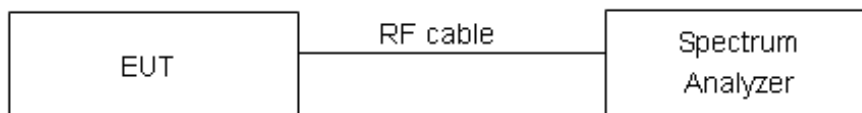
Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$

Sweep time = auto

Detector = RMS

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test setup



Limits

Rule FCC Part 15.407(a)(1) / FCC Part 15.407(a)(2) / FCC Part 15.407(a)(3)

For 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.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz 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.

Frequency Bands/GHz	Limits
5.15-5.25	11dBm/MHz
5.25-5.35 and 5.47-5.725	11dBm/MHz
5.725-5.85	30dBm/500kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
25°C	57%	101.3 kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m/10m below 1GHz, 3m above 1GHz between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific

emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

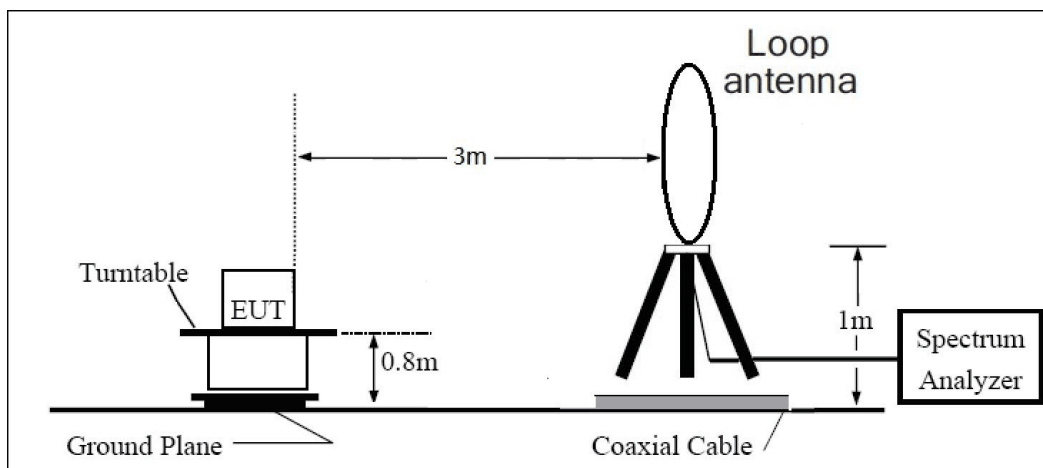
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than $[1 / (\text{minimum transmitter on time})]$ and no less than 1 Hz.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

The test is in transmitting mode.

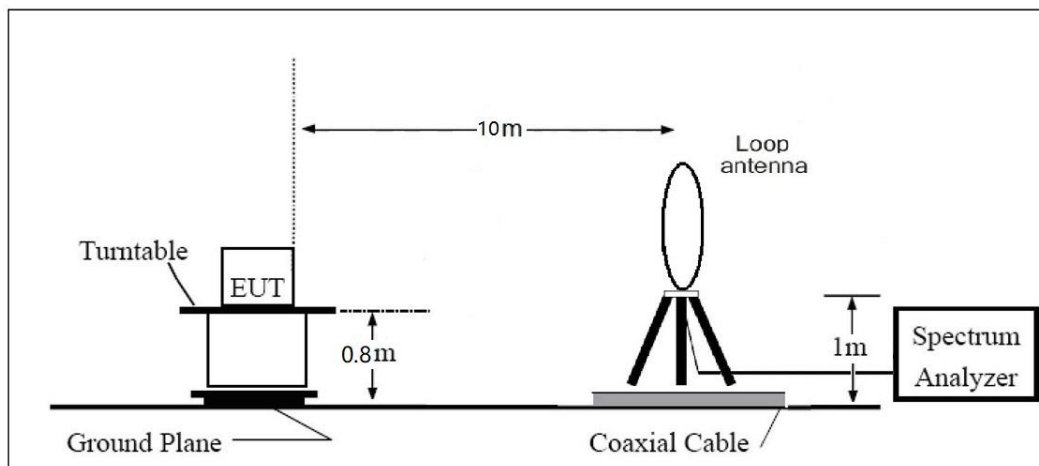
Test setup

9kHz~ 30MHz



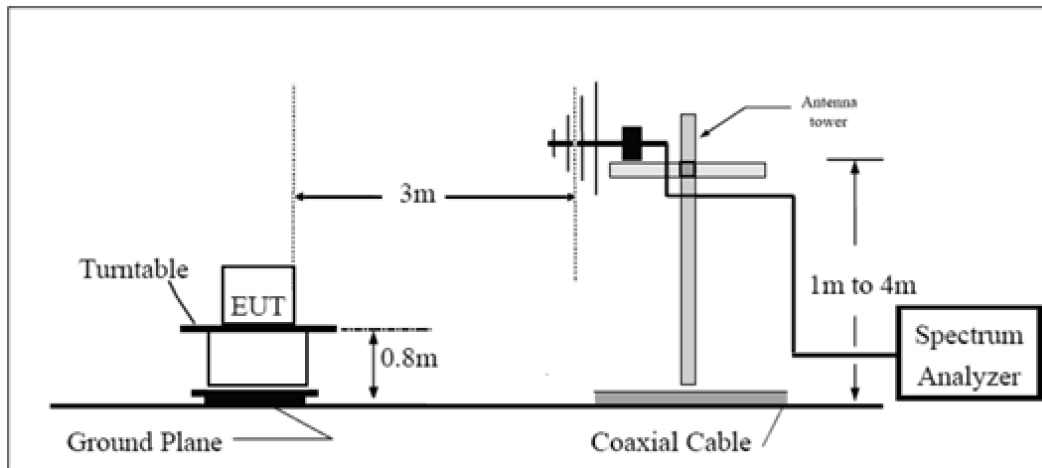
Note: Area side:2.4mX3.6m

Distance 10m



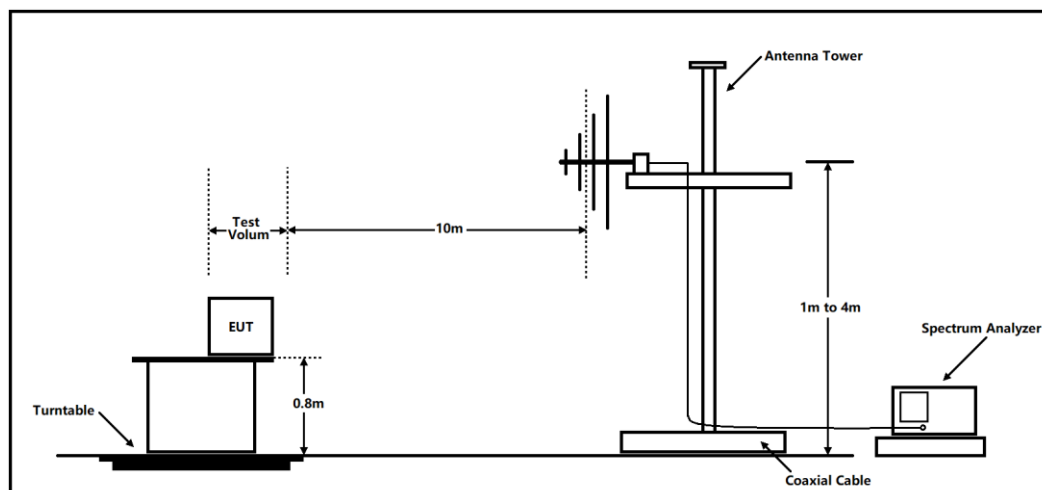
Note: Area side: 21m x 12m

30MHz~ 1GHz



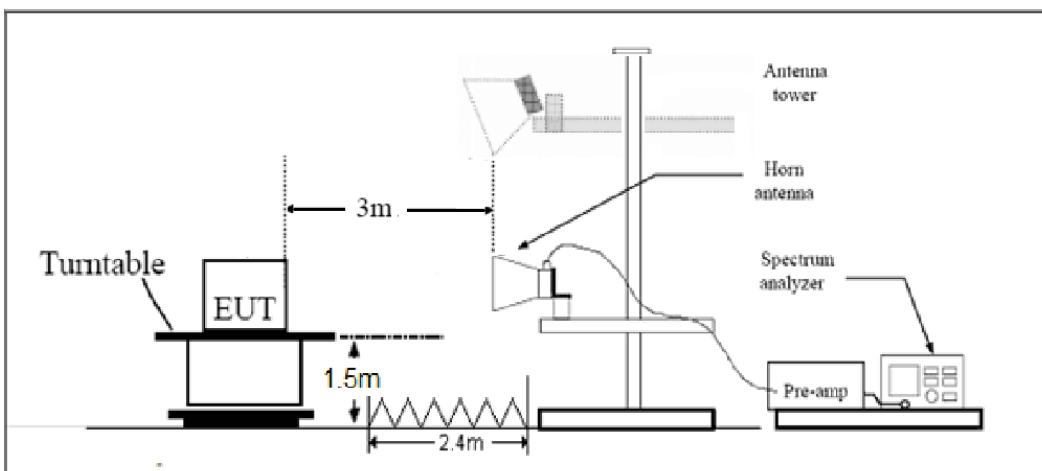
Note: Area side:2.4mX3.6m

Distance 10m



Note: Area side: 21m x 12m

Above 1GHz



Note: Area side:2.4mX3.6m

Limits

- (1) For transmitters operating in the 5725-5850 MHz band: 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.
- (2) 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(68.2dBμV/m).
- (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(68.2dBμV/m).
- (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(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- (5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBμV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty for 3m
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB
Frequency	Uncertainty for 10m
30MHz – 200MHz	3.39 dB
200MHz – 1GHz	3.82 dB
1GHz – 18GHz	6.51 dB
18GHz – 40GHz	6.31 dB

5.6. Conducted Emission

Ambient condition

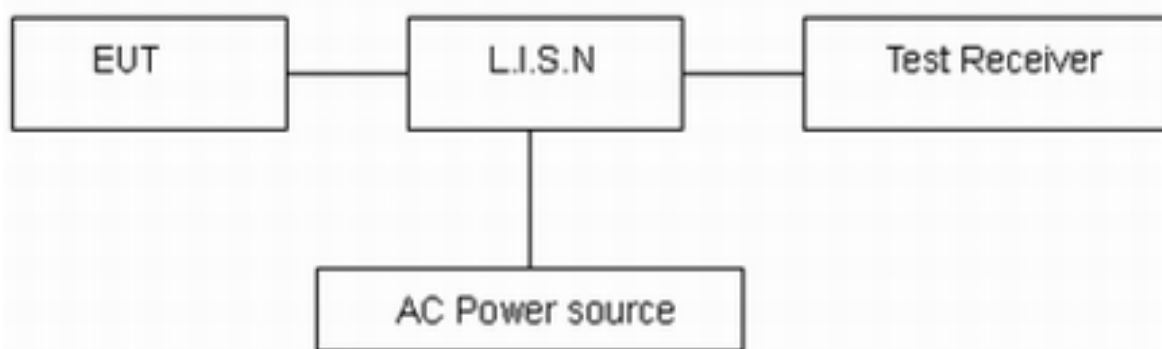
Temperature	Relative humidity	Pressure
25°C	57%	101.3 kPa

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

*: Decreases with the logarithm of the frequency.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

6. Test Results

6.1. Occupied Bandwidth

U-NII-1

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5180	16.820	25.781	Pass
802.11a	5200	16.847	25.723	Pass
802.11a	5240	16.834	21.125	Pass
802.11ac(VHT20)	5180	17.922	21.289	Pass
802.11ac(VHT20)	5200	17.904	21.427	Pass
802.11ac(VHT20)	5240	17.827	21.252	Pass
802.11ax(HE20)	5180	19.029	21.175	Pass
802.11ax(HE20)	5200	19.089	21.548	Pass
802.11ax(HE20)	5240	18.975	21.299	Pass
802.11n(HT20)	5180	17.900	26.109	Pass
802.11n(HT20)	5200	17.898	25.725	Pass
802.11n(HT20)	5240	17.853	21.310	Pass

U-NII-2A

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5260	16.769	20.959	Pass
802.11a	5300	16.835	21.029	Pass
802.11a	5320	16.759	21.213	Pass
802.11ac(VHT20)	5260	17.895	21.506	Pass
802.11ac(VHT20)	5300	17.903	25.893	Pass
802.11ac(VHT20)	5320	17.889	25.788	Pass
802.11ax(HE20)	5260	19.015	21.385	Pass
802.11ax(HE20)	5300	19.059	21.295	Pass
802.11ax(HE20)	5320	19.070	21.711	Pass
802.11n(HT20)	5260	17.892	25.634	Pass
802.11n(HT20)	5300	17.860	21.490	Pass
802.11n(HT20)	5320	17.930	25.983	Pass

U-NII-2C

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5500	16.943	25.651	Pass
802.11a	5600	16.975	25.843	Pass
802.11a	5700	17.139	29.796	Pass
802.11a	5720	17.212	28.992	Pass
802.11ac(VHT20)	5500	17.971	21.508	Pass
802.11ac(VHT20)	5600	17.919	23.547	Pass
802.11ac(VHT20)	5700	17.962	27.324	Pass
802.11ac(VHT20)	5720	18.053	27.696	Pass
802.11ax(HE20)	5500	19.132	21.423	Pass
802.11ax(HE20)	5600	18.986	21.284	Pass
802.11ax(HE20)	5700	19.081	22.605	Pass
802.11ax(HE20)	5720	19.049	26.515	Pass
802.11n(HT20)	5500	17.902	22.040	Pass
802.11n(HT20)	5600	17.916	21.270	Pass
802.11n(HT20)	5700	17.948	27.789	Pass
802.11n(HT20)	5720	18.079	29.767	Pass

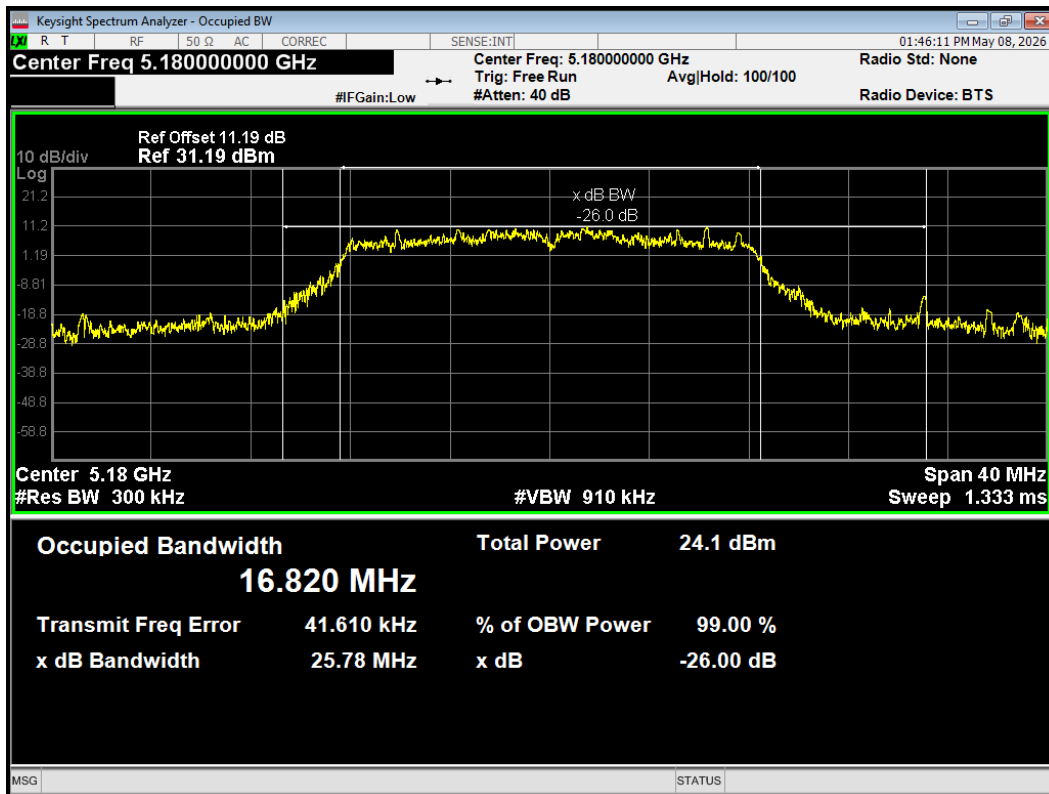
U-NII-3

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11a	5720	17.140	15.151	500	Pass
802.11a	5745	16.766	13.810	500	Pass
802.11a	5785	16.719	12.582	500	Pass
802.11a	5825	16.784	15.077	500	Pass
802.11ac(VHT20)	5720	18.070	15.040	500	Pass
802.11ac(VHT20)	5745	17.810	12.620	500	Pass
802.11ac(VHT20)	5785	17.857	15.118	500	Pass
802.11ac(VHT20)	5825	17.872	15.005	500	Pass
802.11ax(HE20)	5720	19.087	17.714	500	Pass
802.11ax(HE20)	5745	19.035	17.243	500	Pass
802.11ax(HE20)	5785	18.931	15.100	500	Pass
802.11ax(HE20)	5825	19.103	18.342	500	Pass
802.11n(HT20)	5720	18.065	15.041	500	Pass
802.11n(HT20)	5745	17.774	14.948	500	Pass
802.11n(HT20)	5785	17.819	15.063	500	Pass
802.11n(HT20)	5825	17.873	15.015	500	Pass

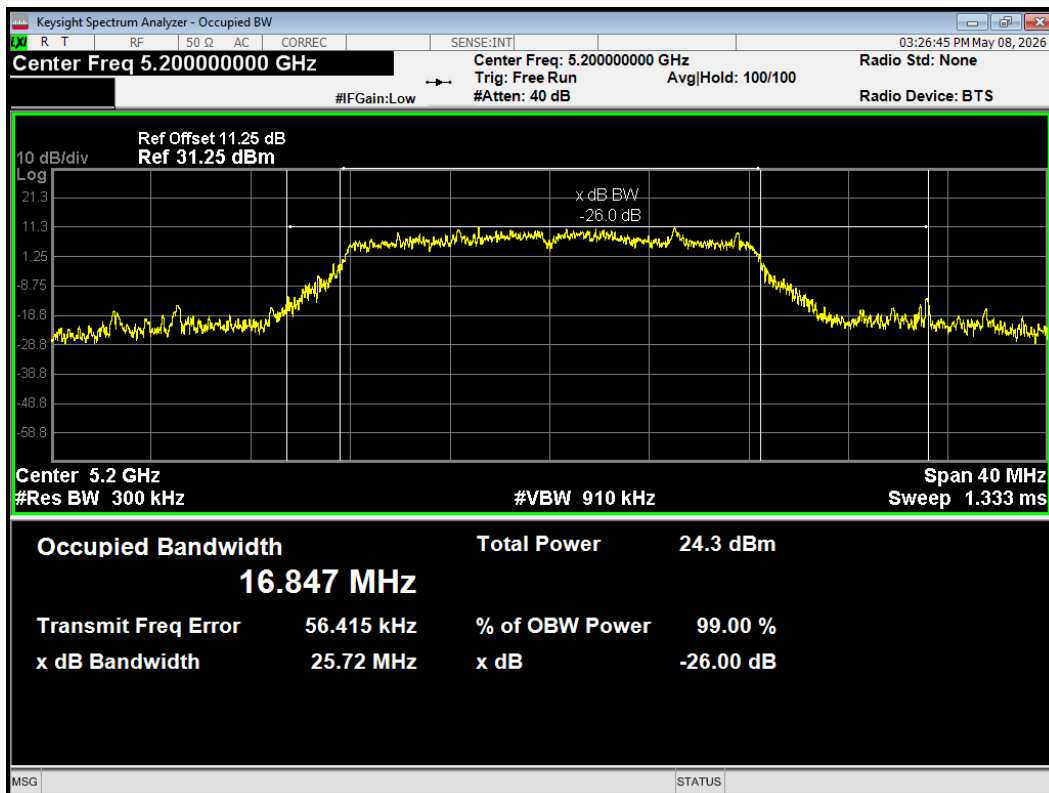
99% bandwidth

U-NII-1

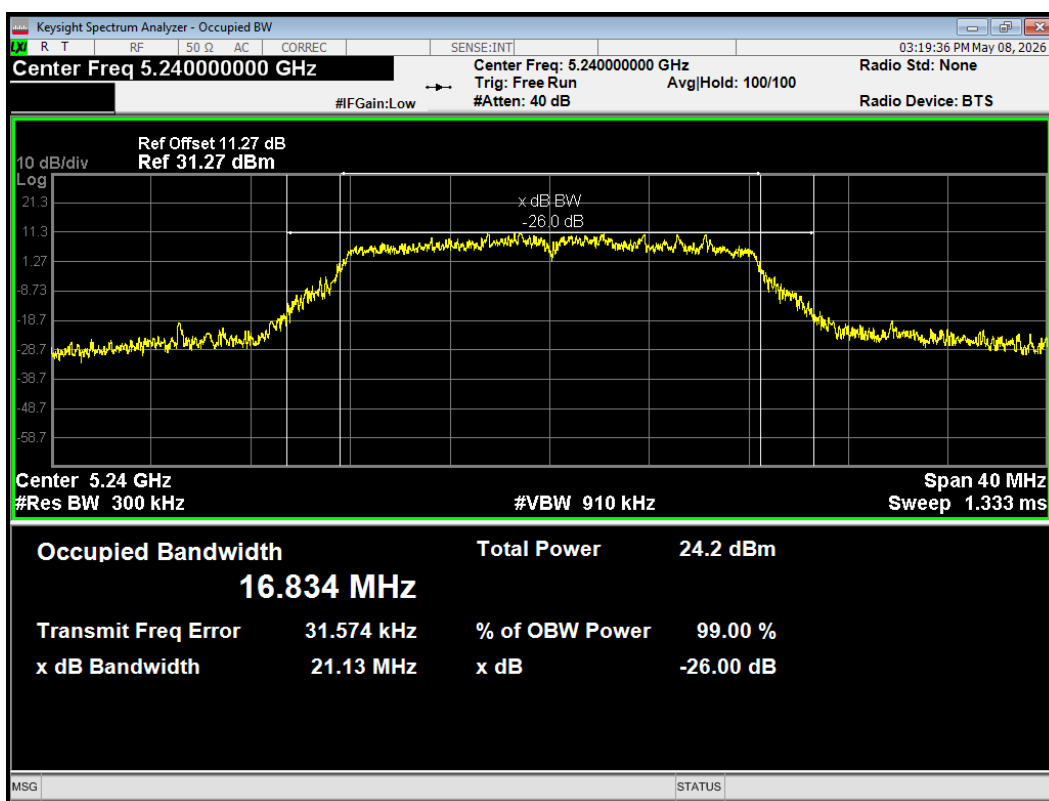
OBW 802.11a 5180MHz



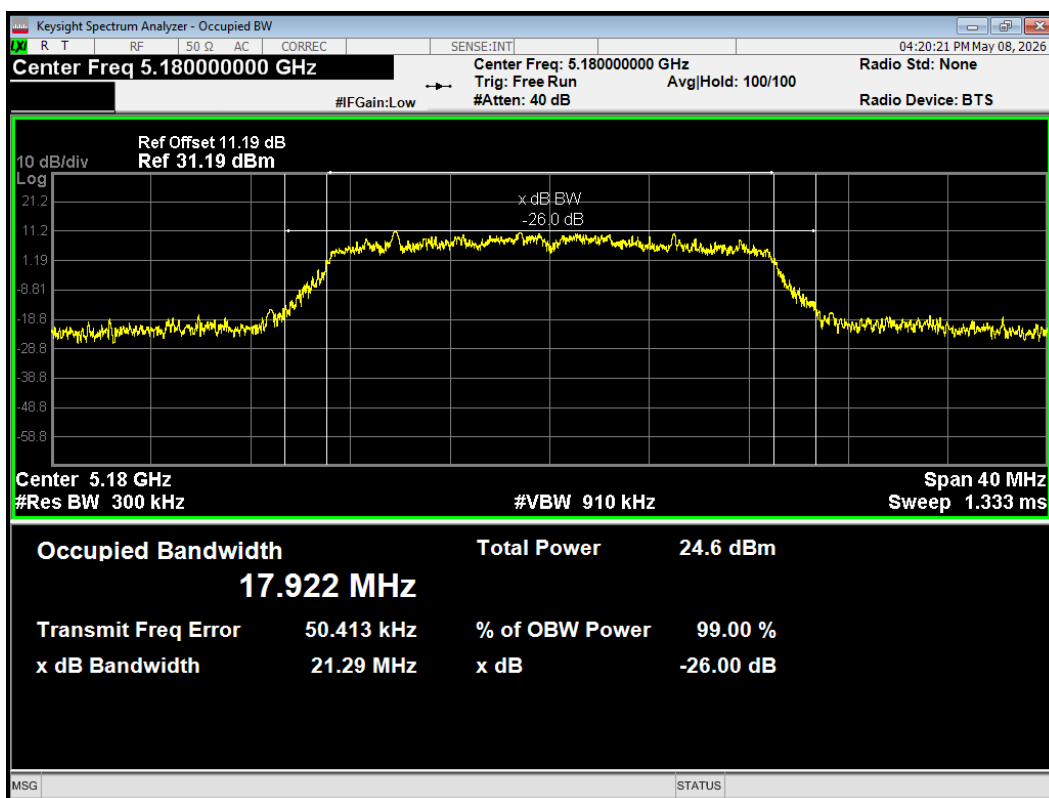
OBW 802.11a 5200MHz



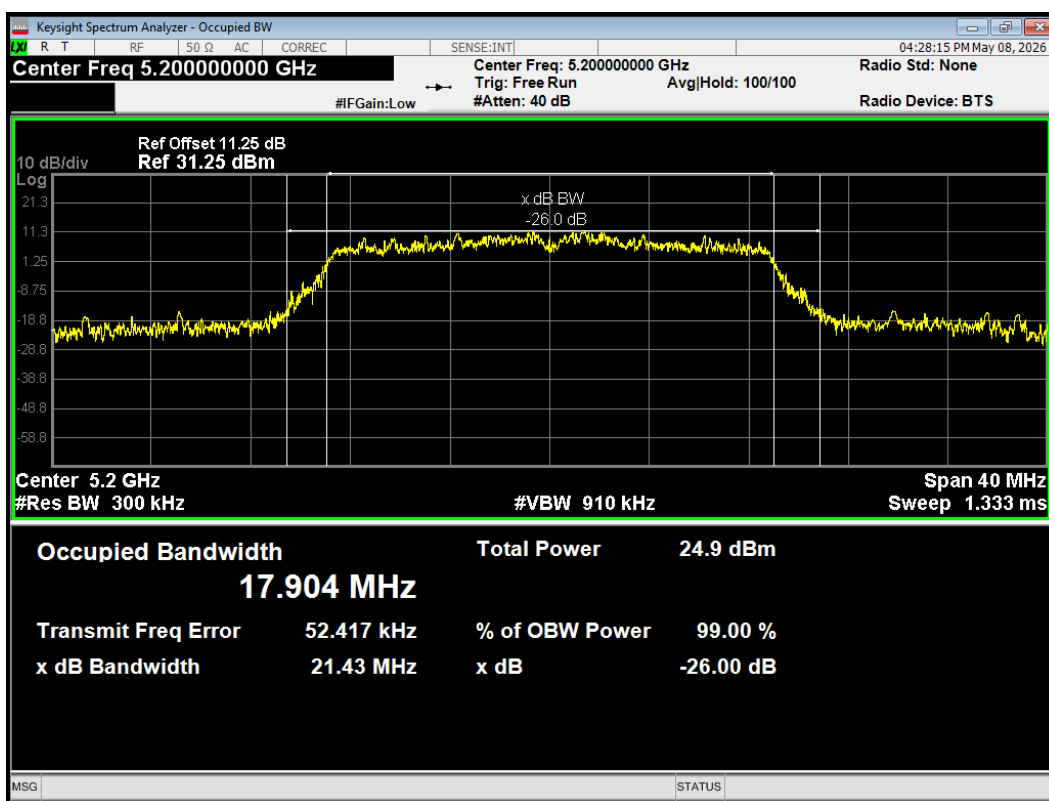
OBW 802.11a 5240MHz



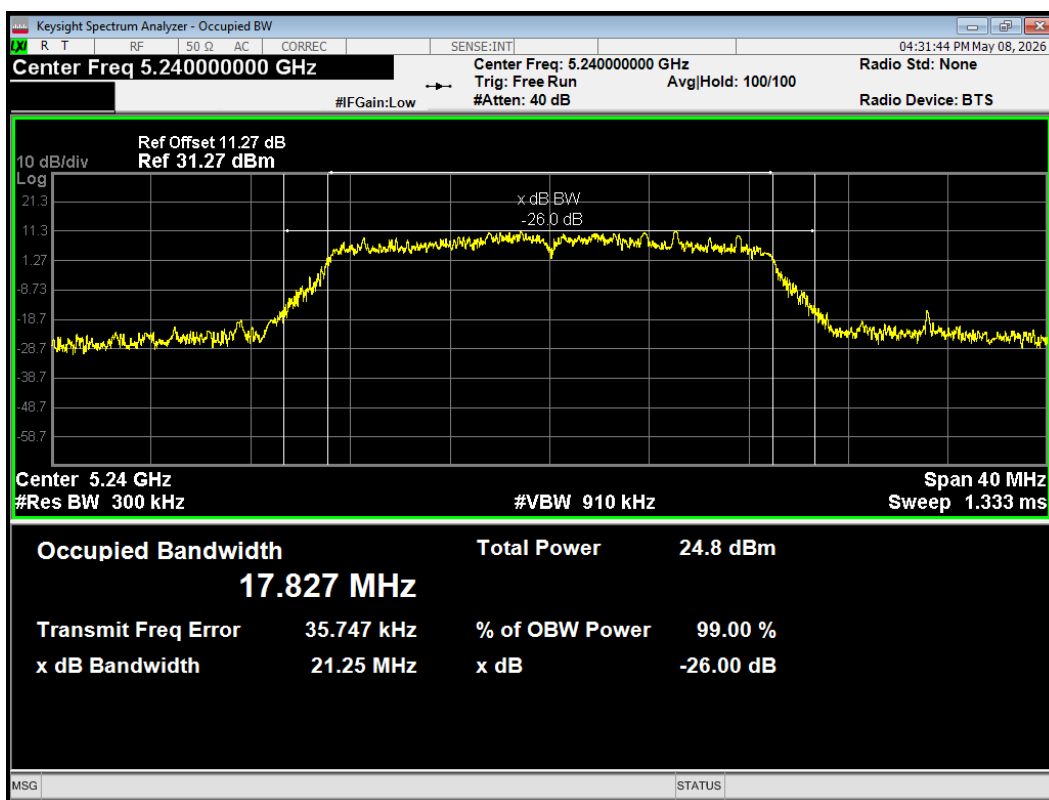
OBW 802.11ac(VHT20) 5180MHz



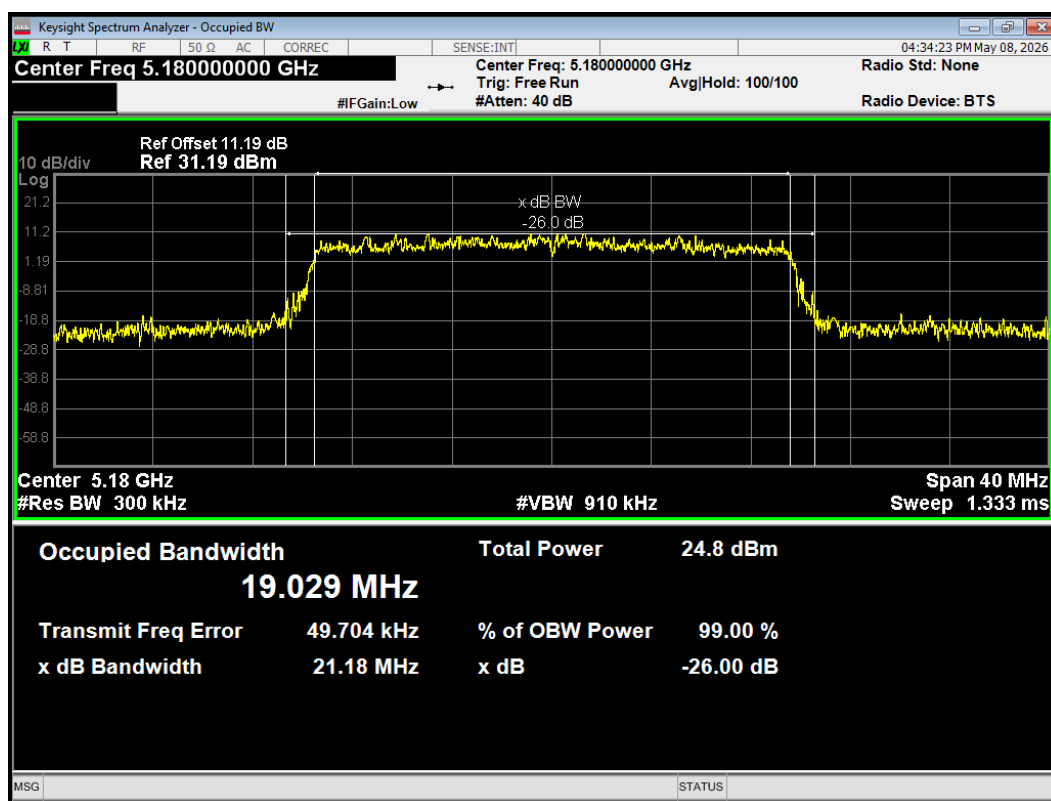
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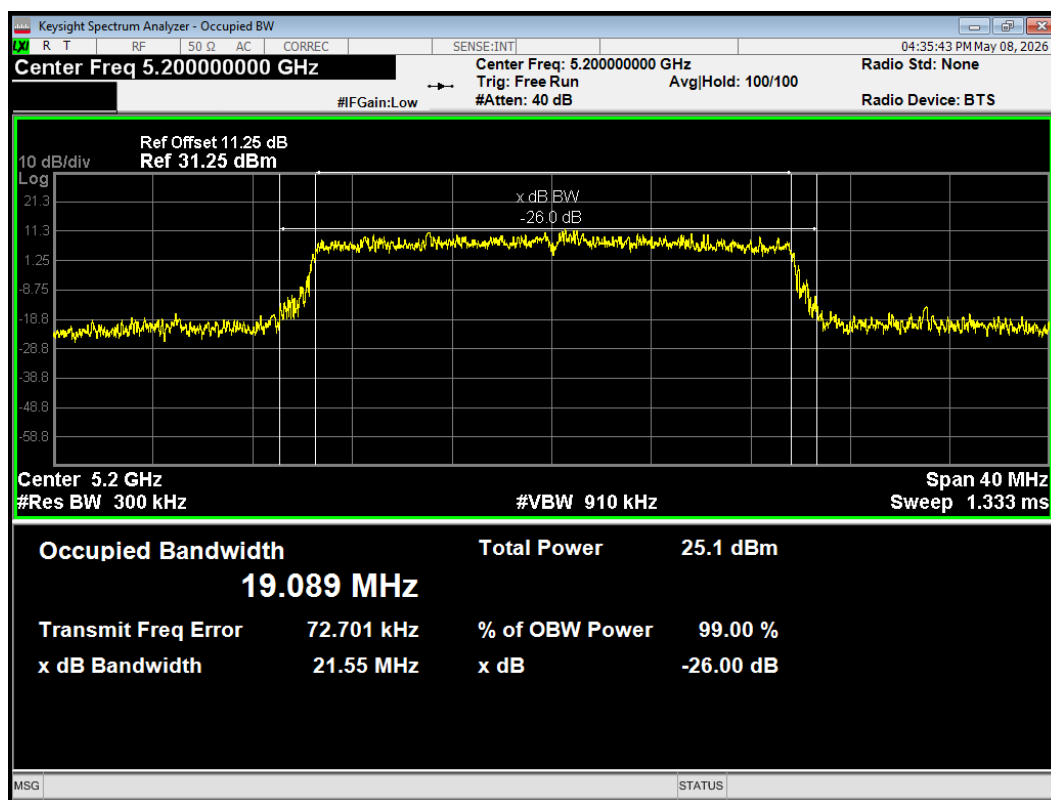
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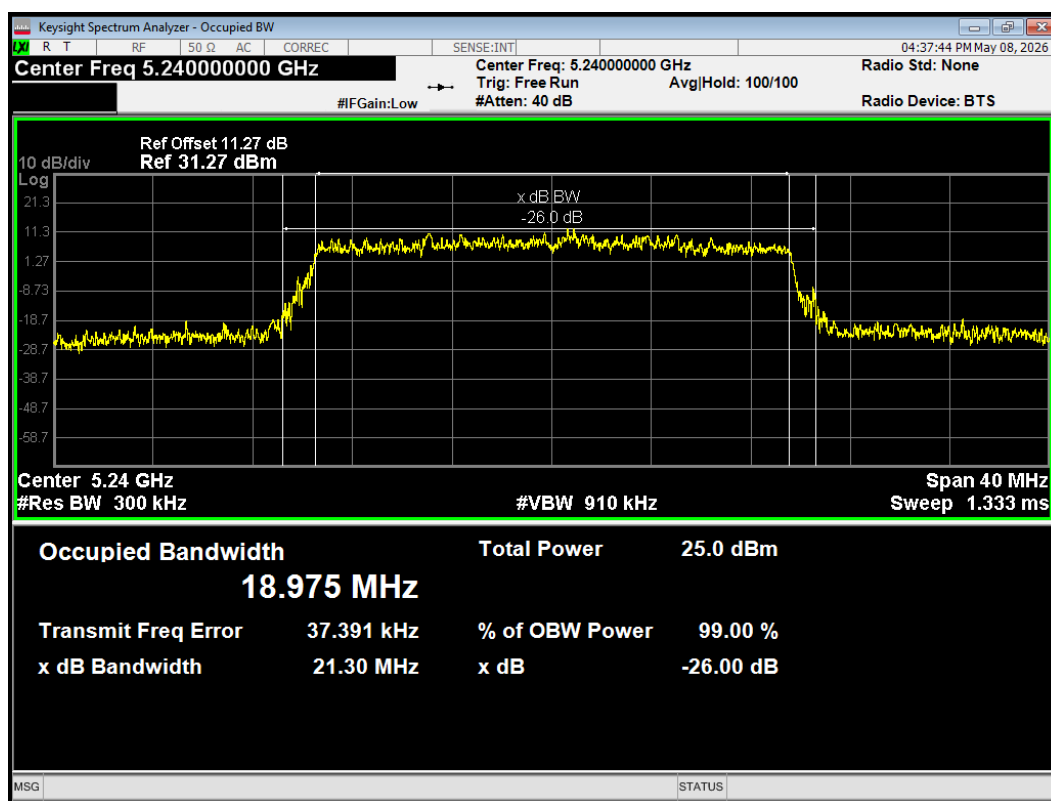
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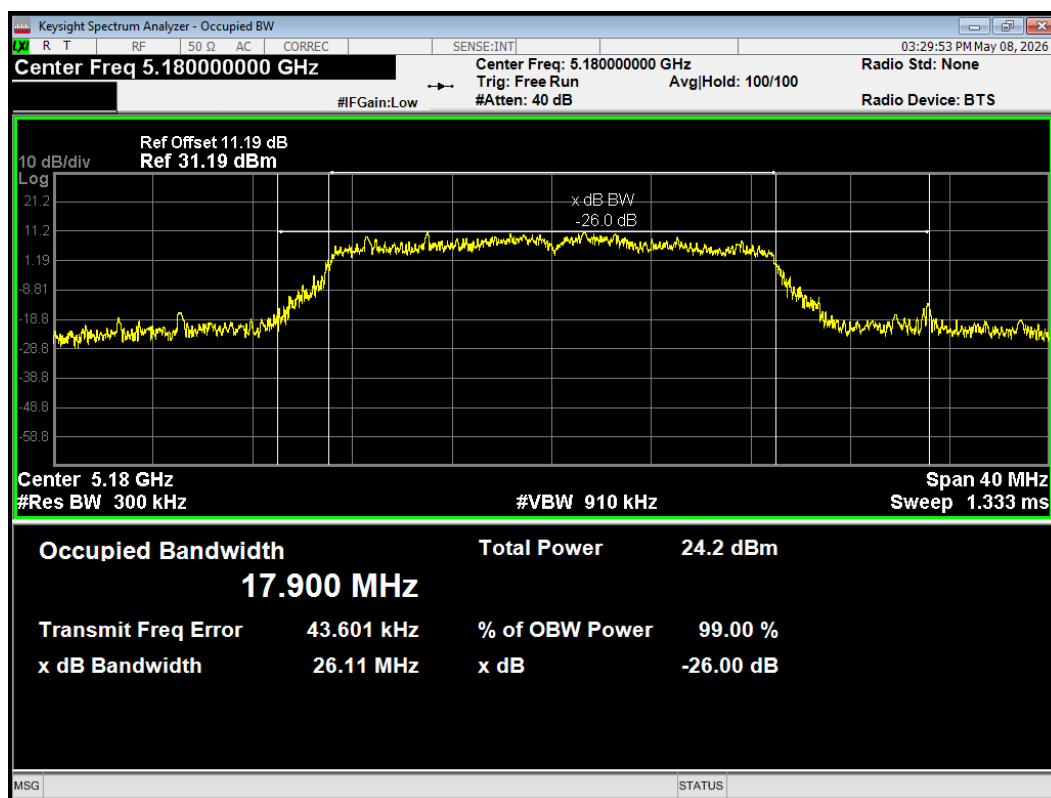
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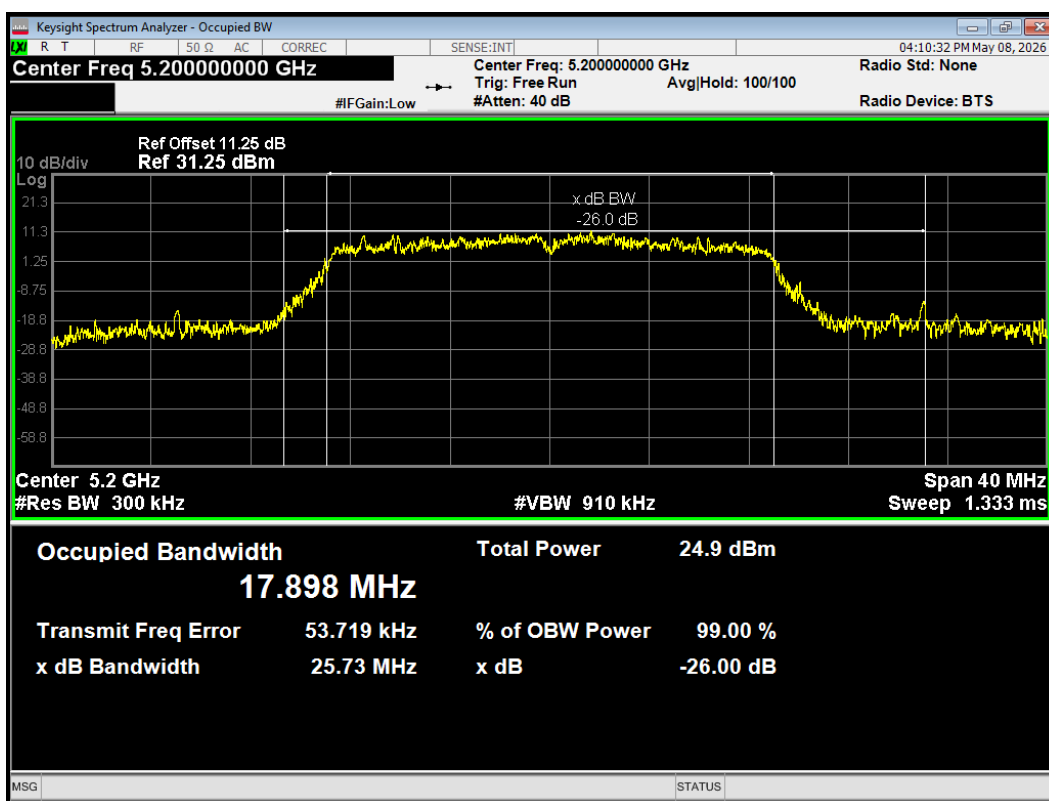
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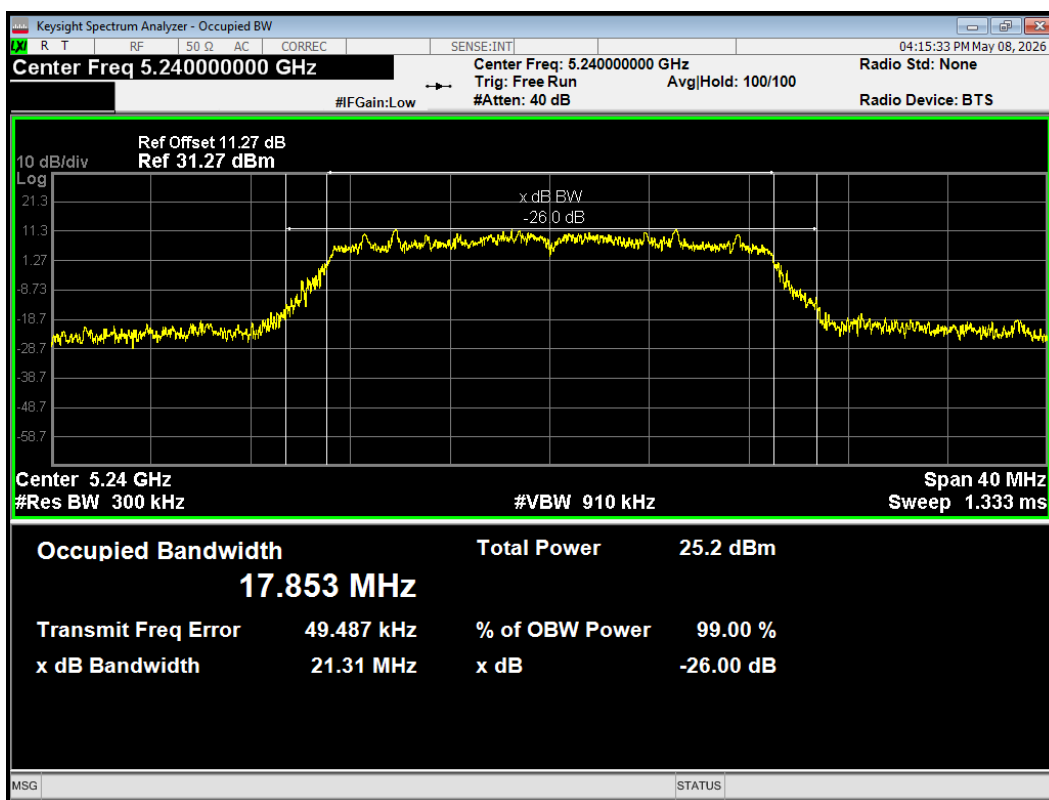
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OBW 802.11n(HT20) 5200MHz

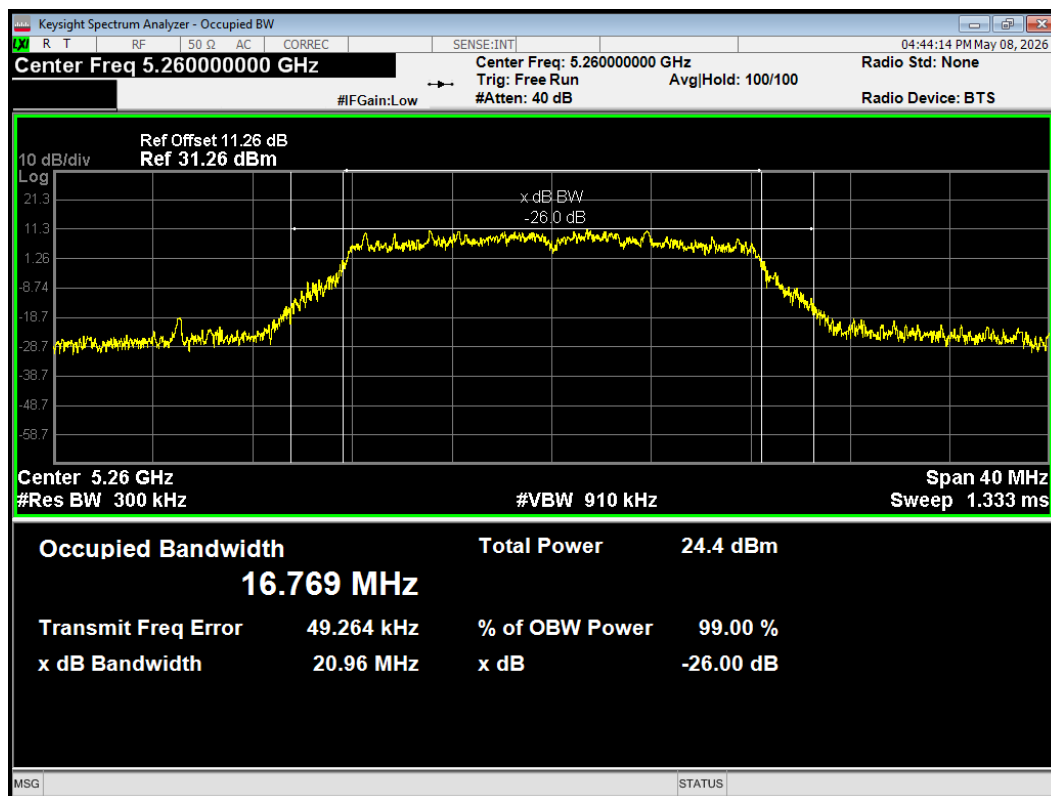


OBW 802.11n(HT20) 5240MHz

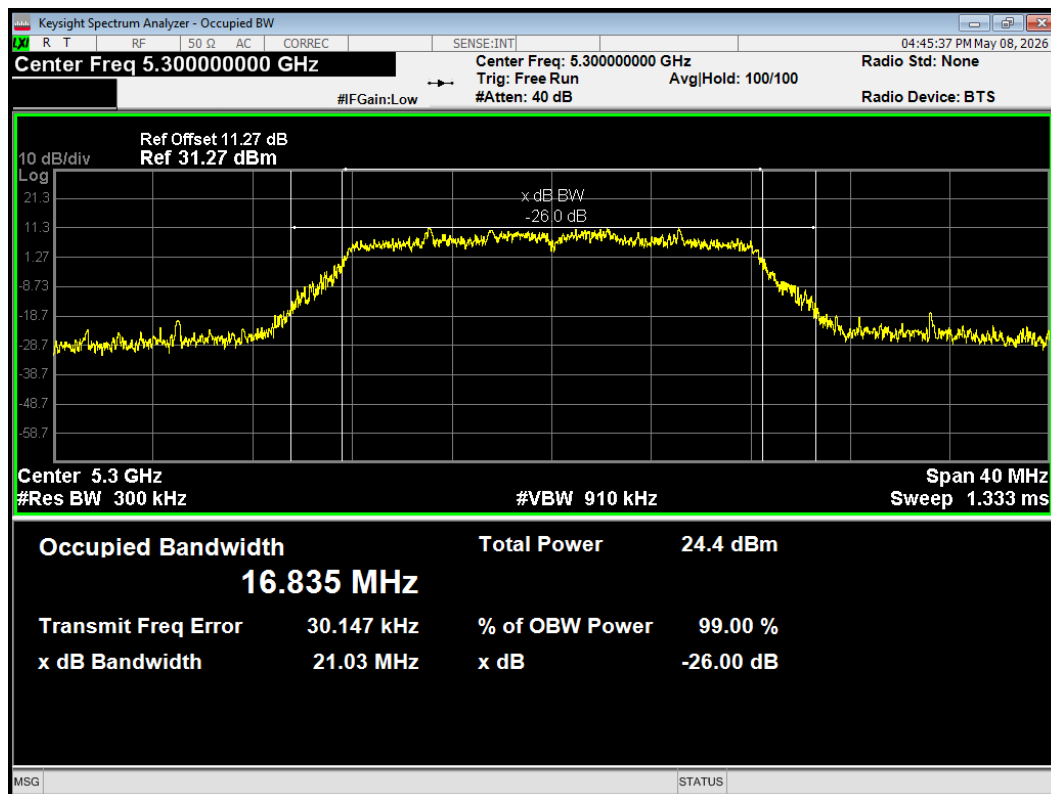


U-NII-2A

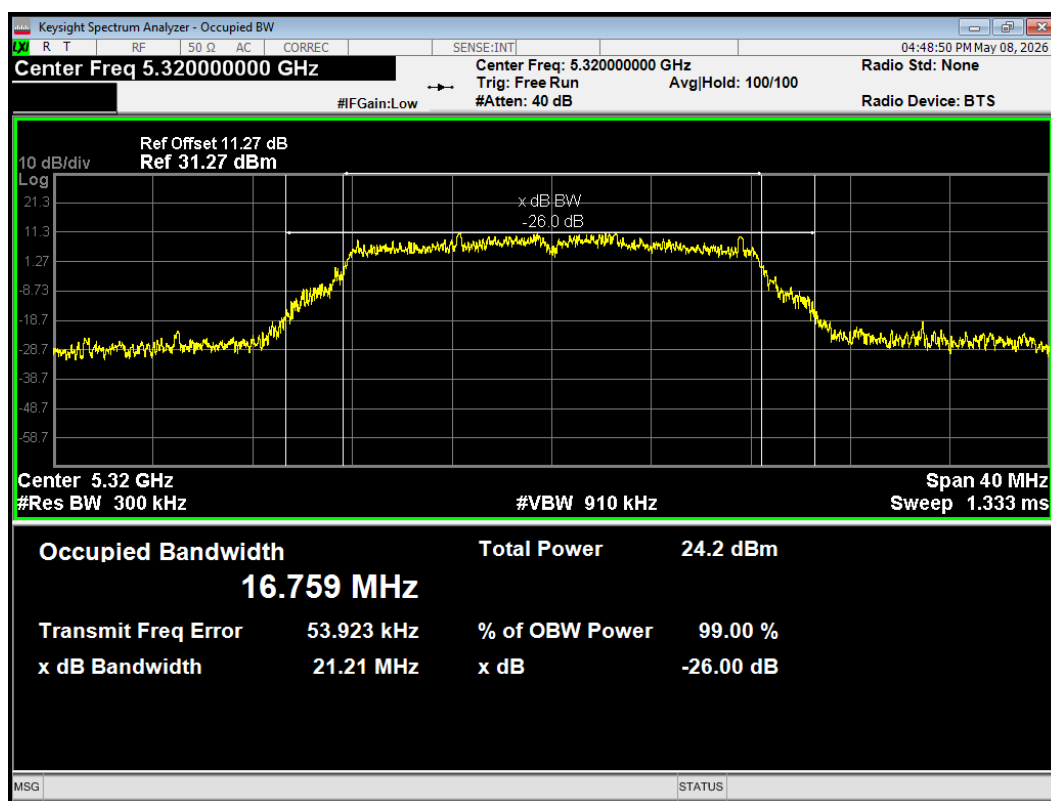
OBW 802.11a 5260MHz



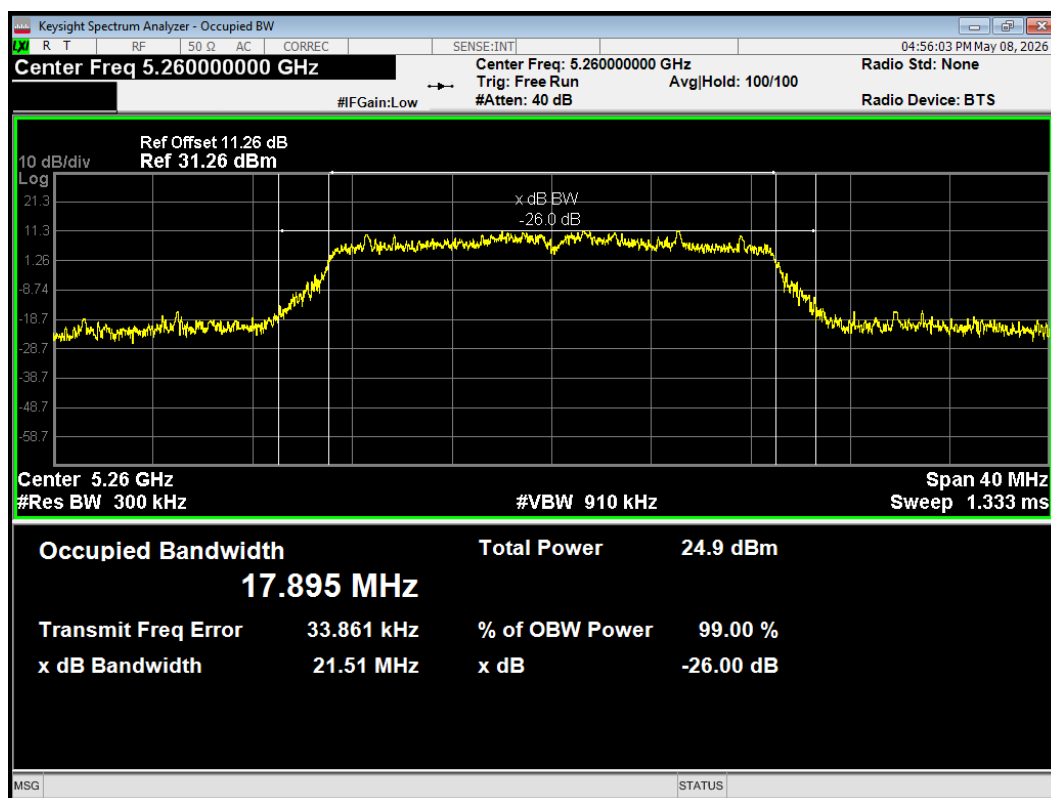
OBW 802.11a 5300MHz



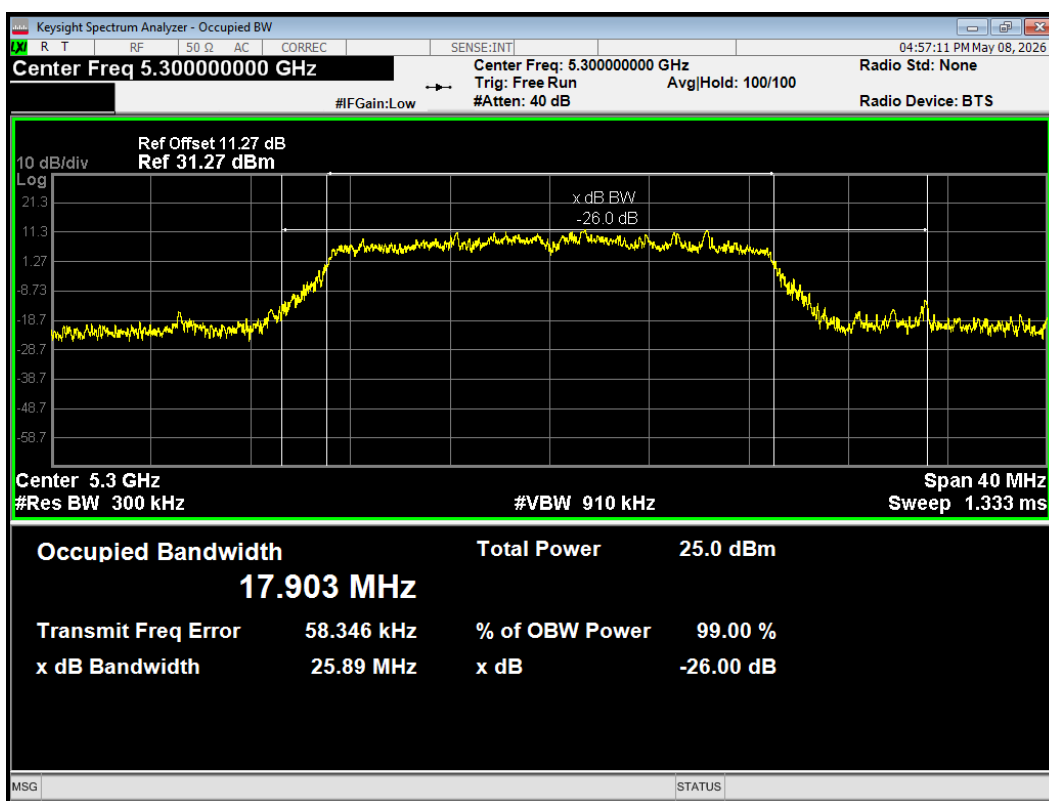
OBW 802.11a 5320MHz



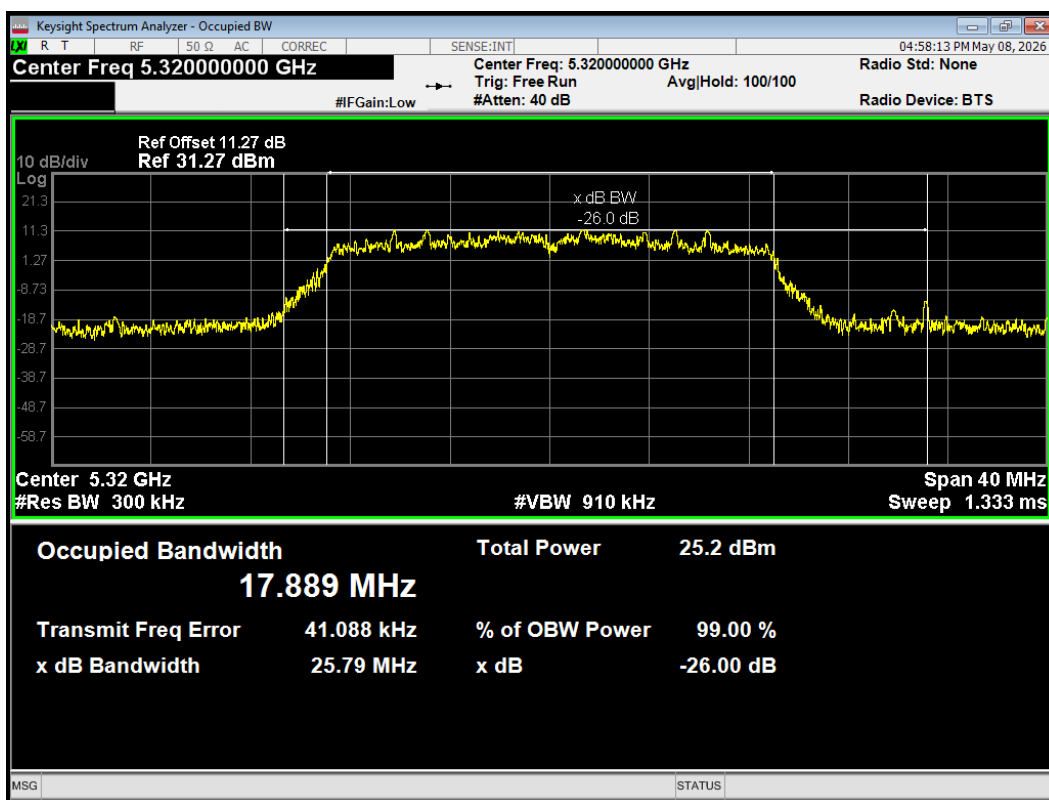
OBW 802.11ac(VHT20) 5260MHz



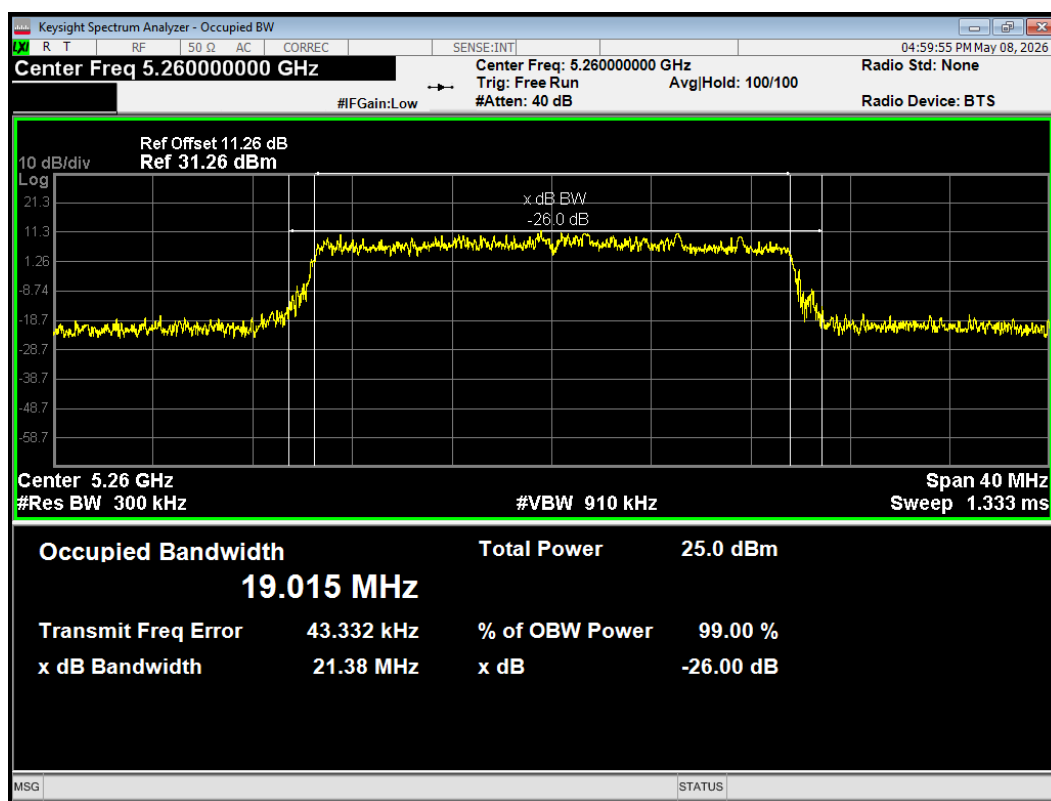
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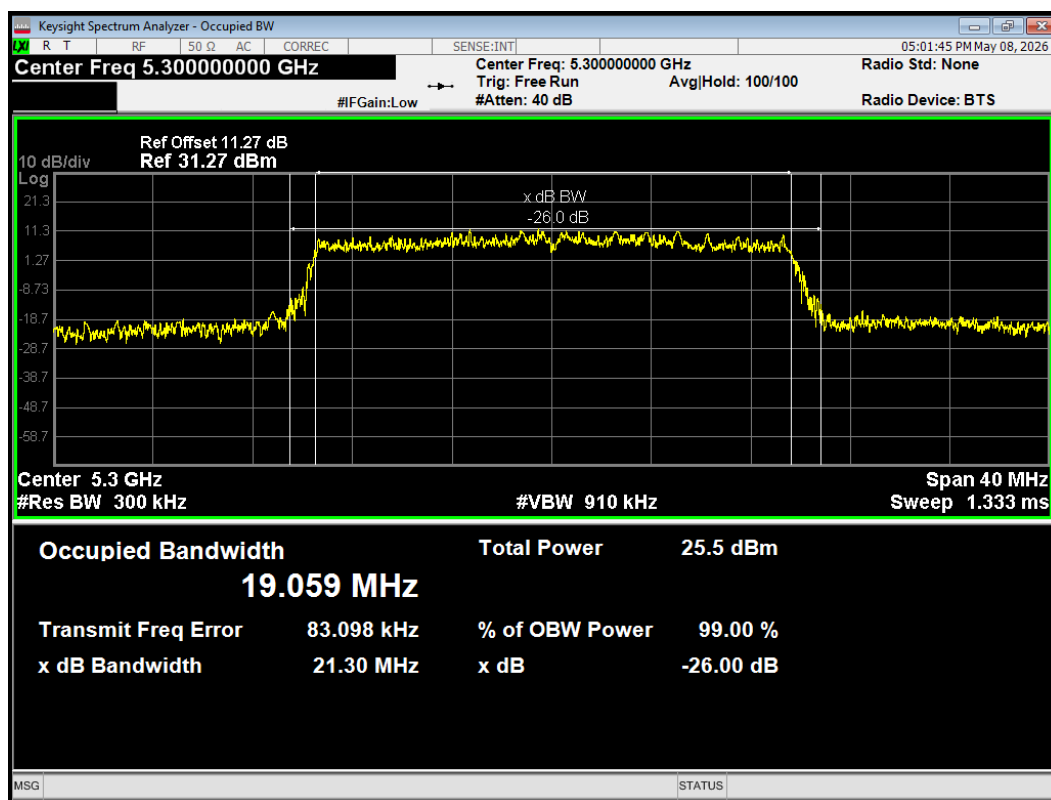
OBW 802.11ac(VHT20) 5320MHz



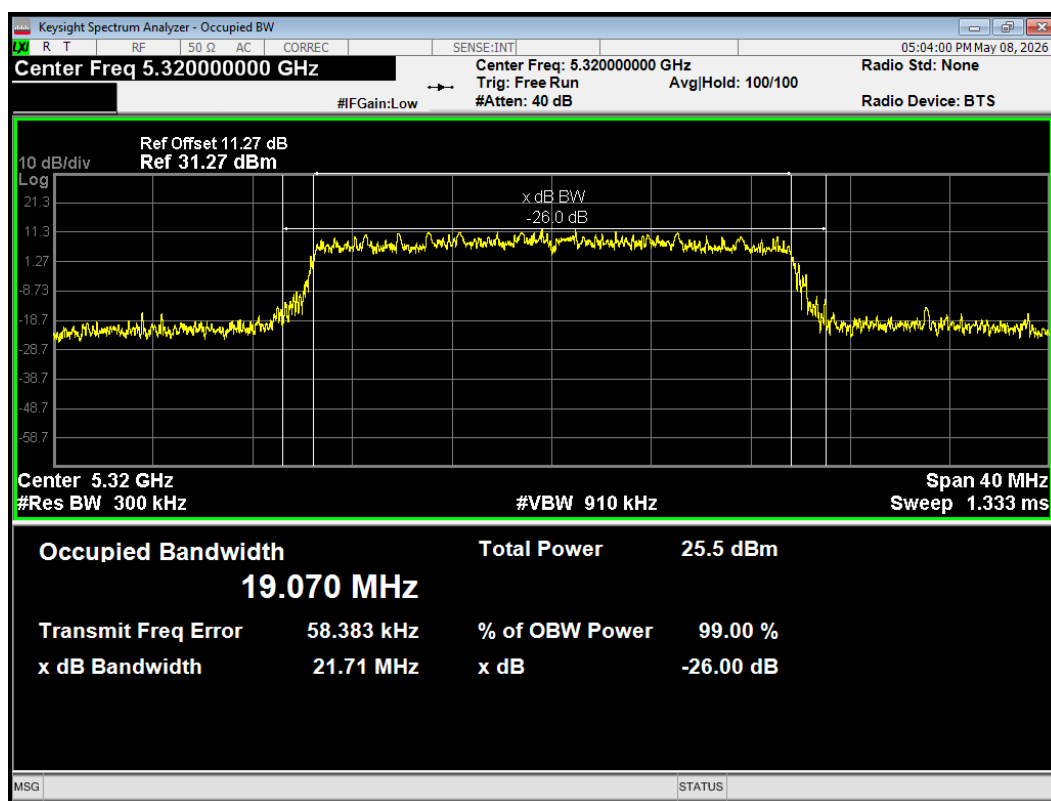
OBW 802.11ax(HE20) 5260MHz



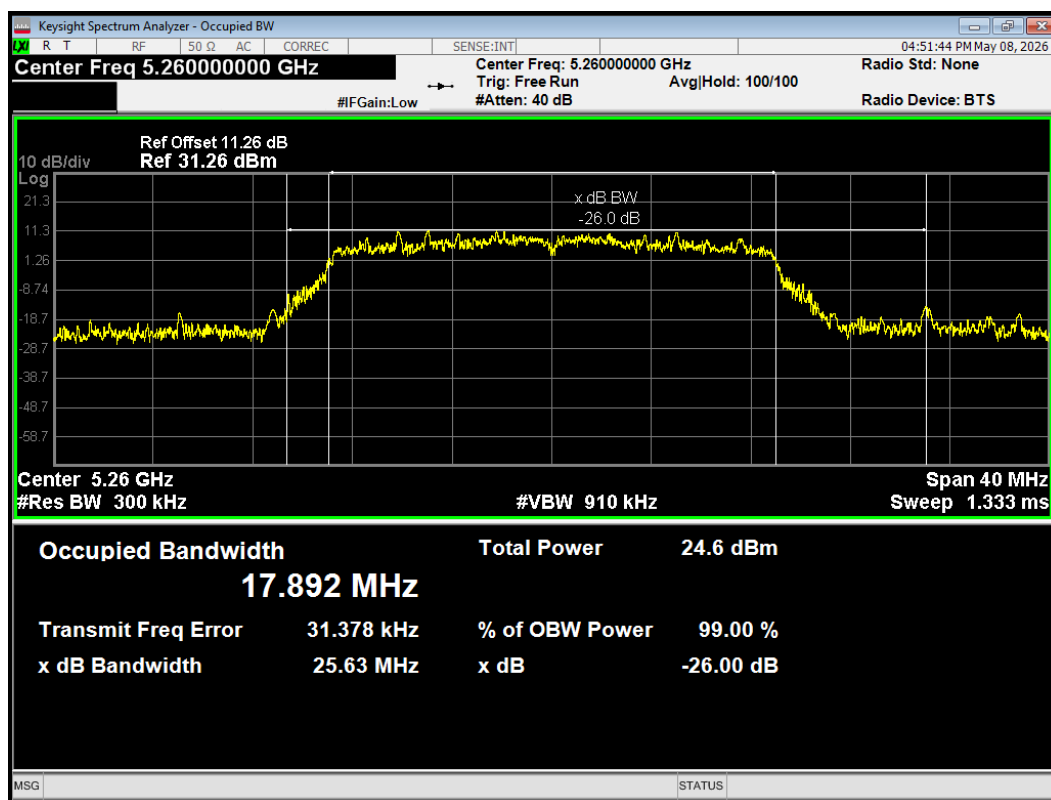
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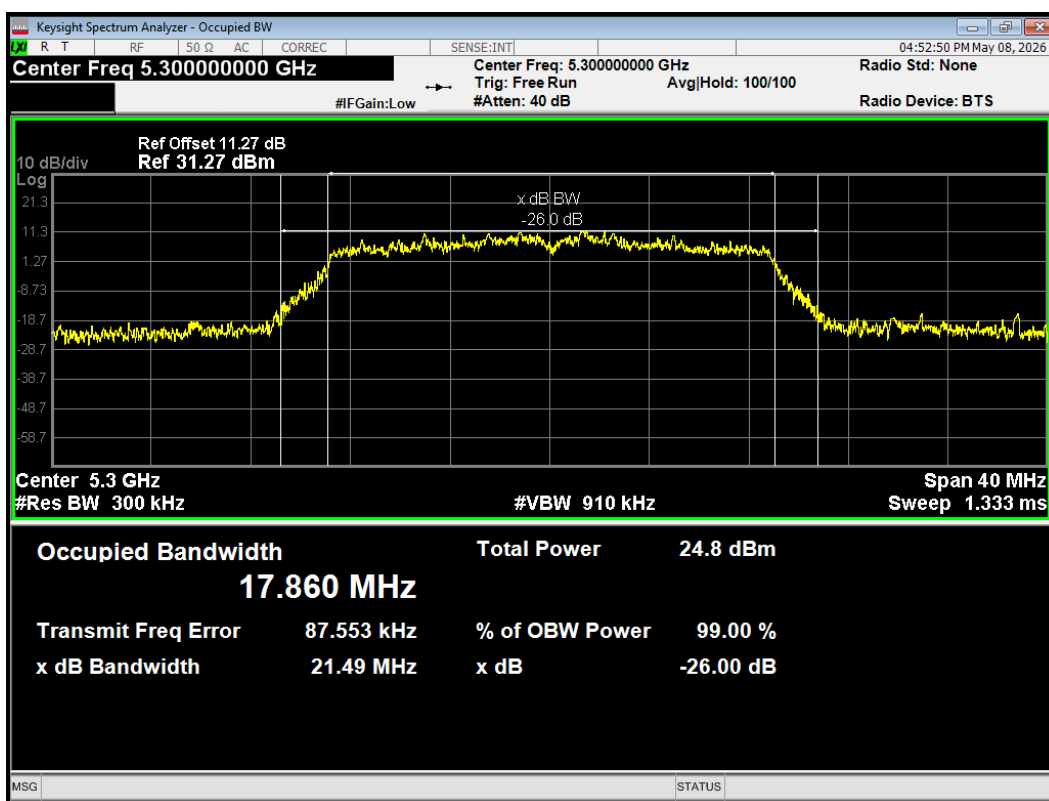
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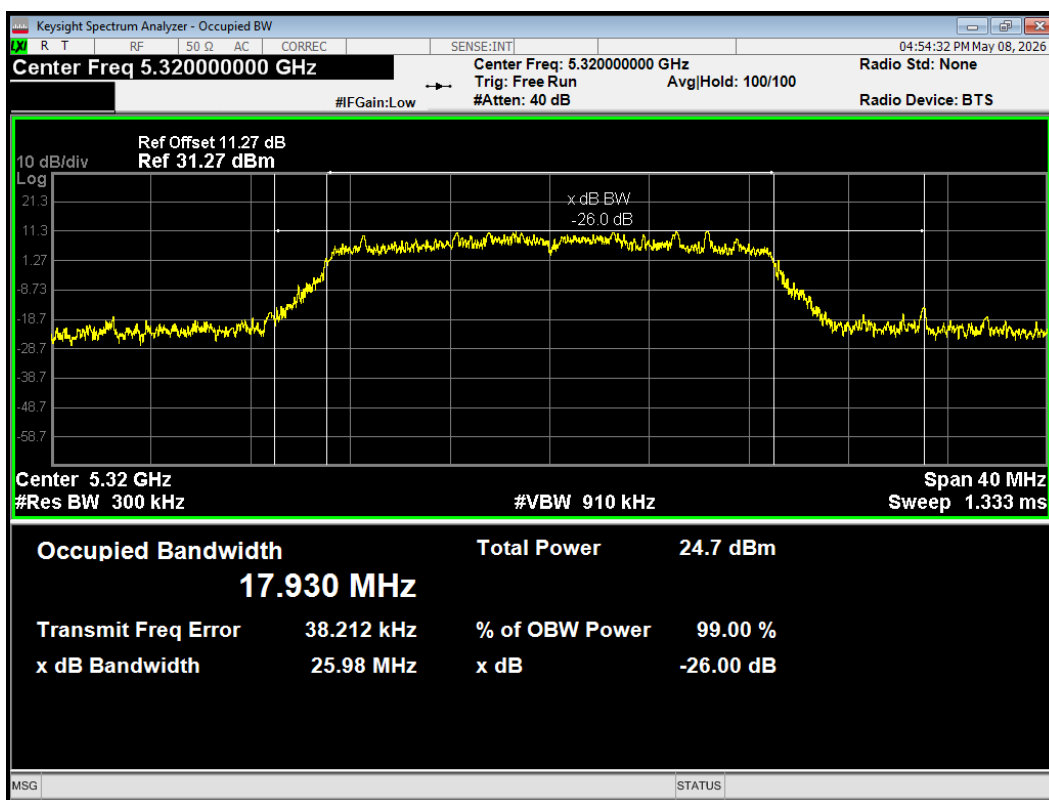
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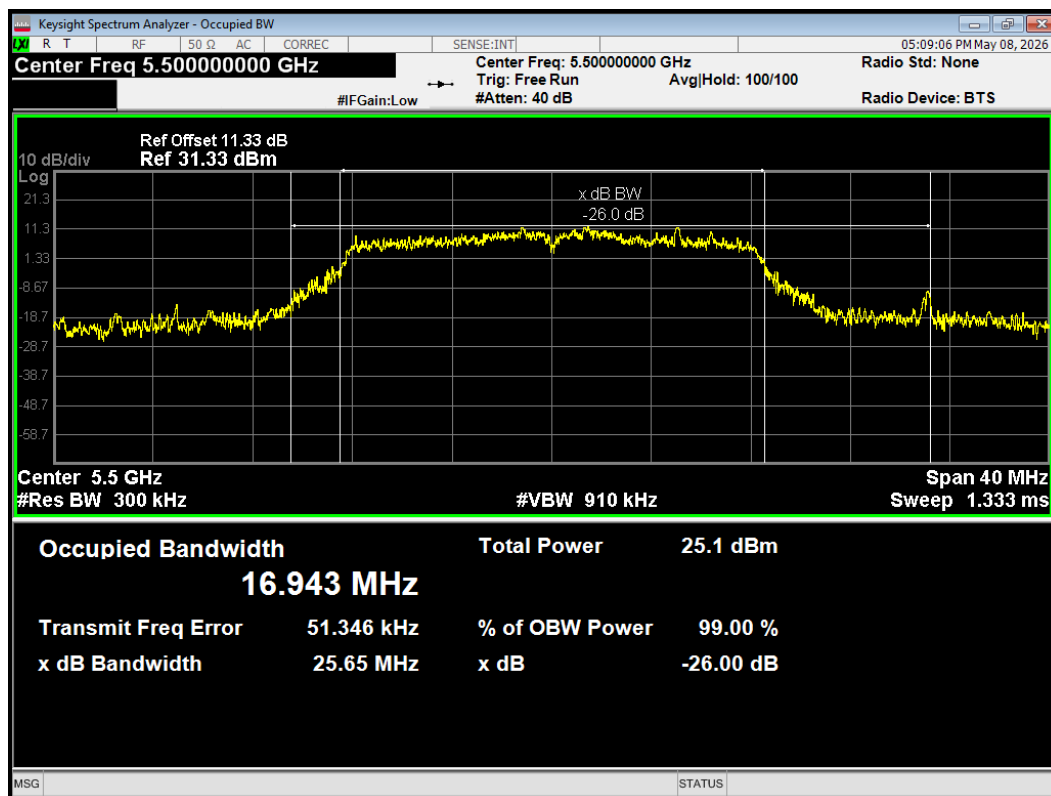
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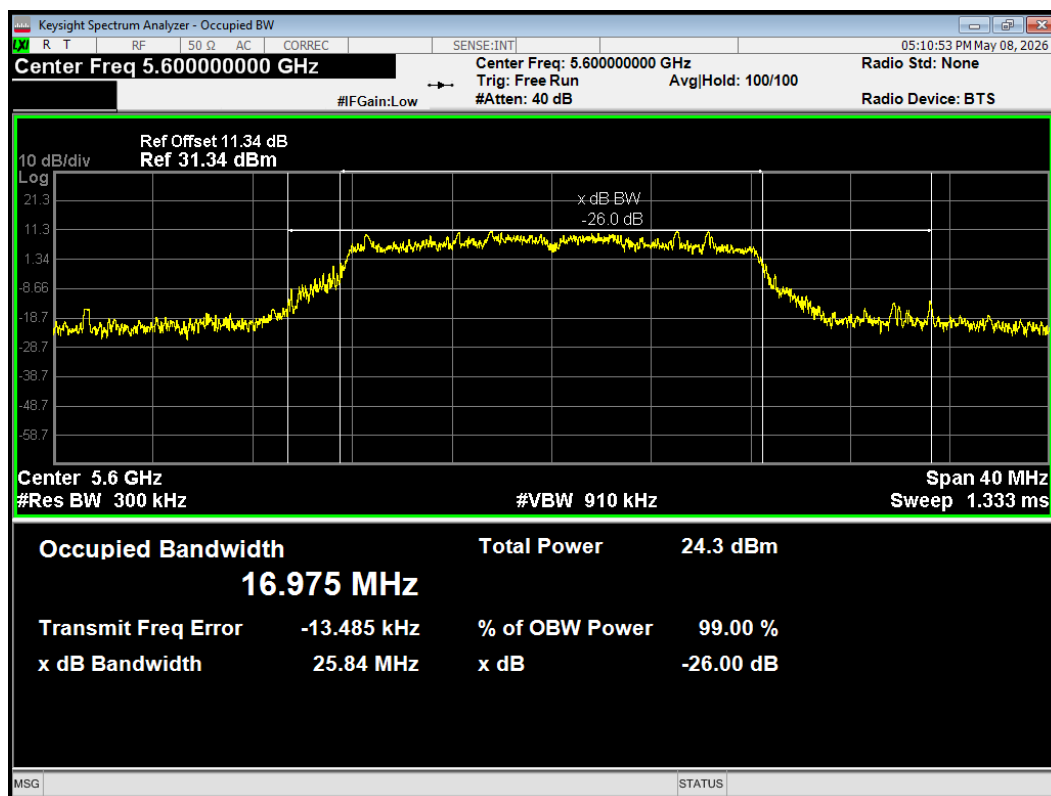
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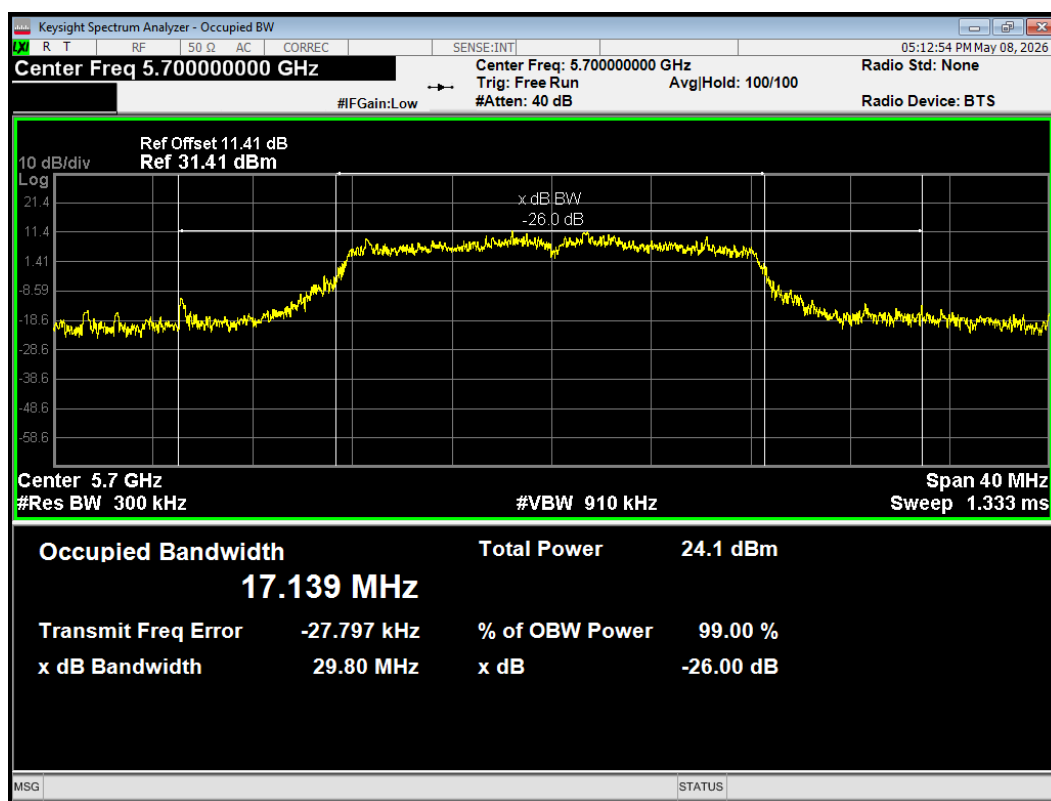
OBW 802.11a 5500MHz



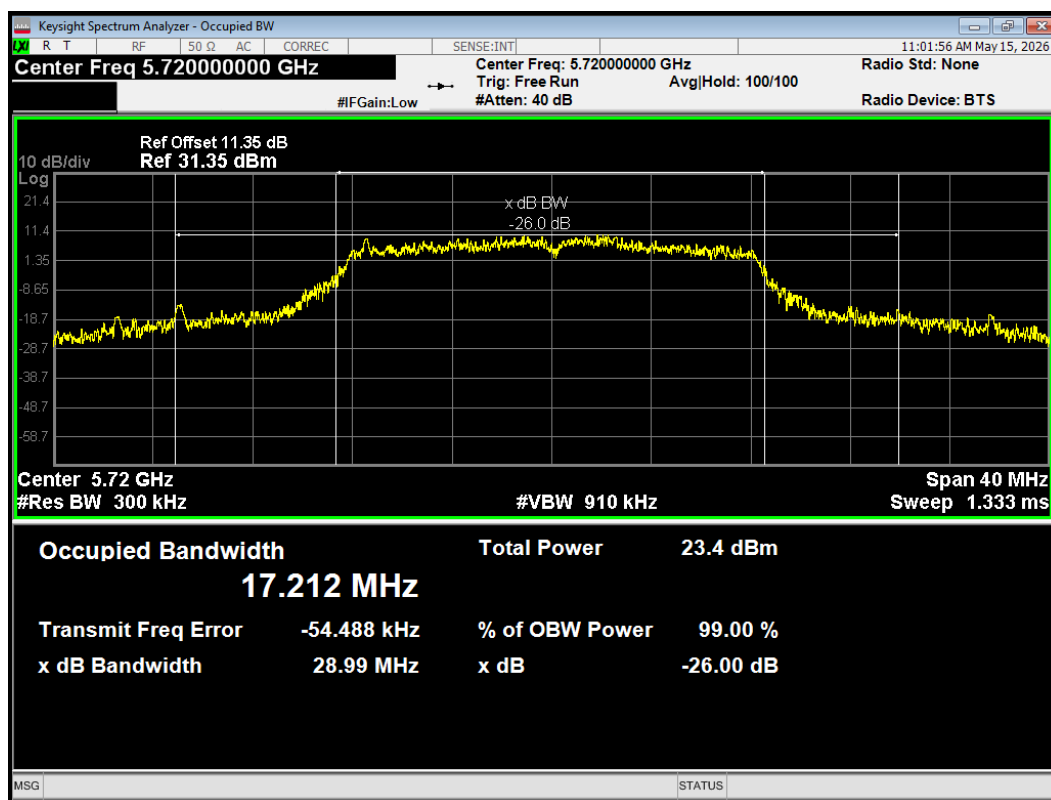
OBW 802.11a 5600MHz



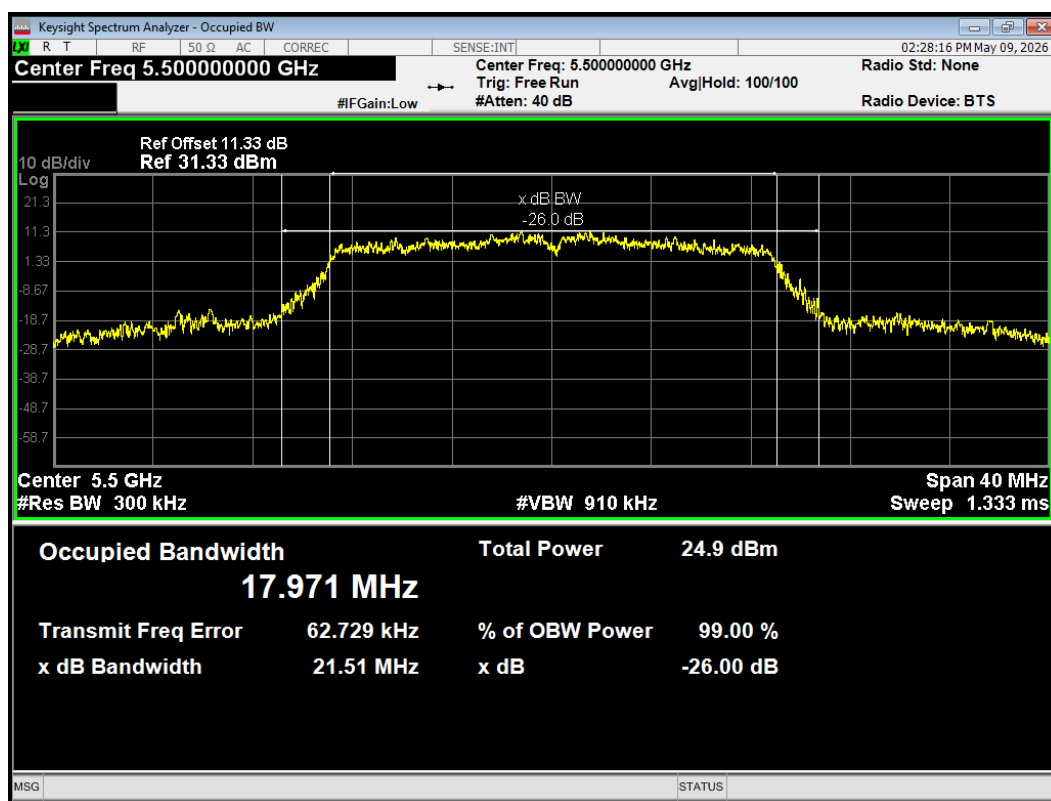
OBW 802.11a 5700MHz



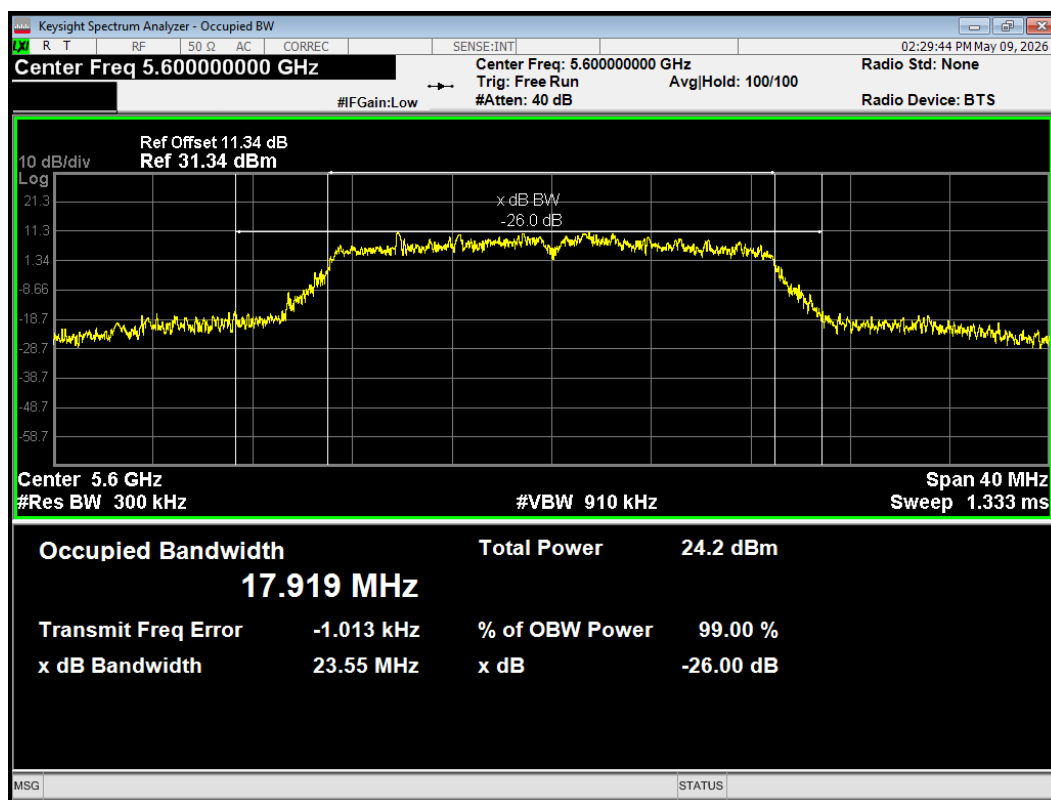
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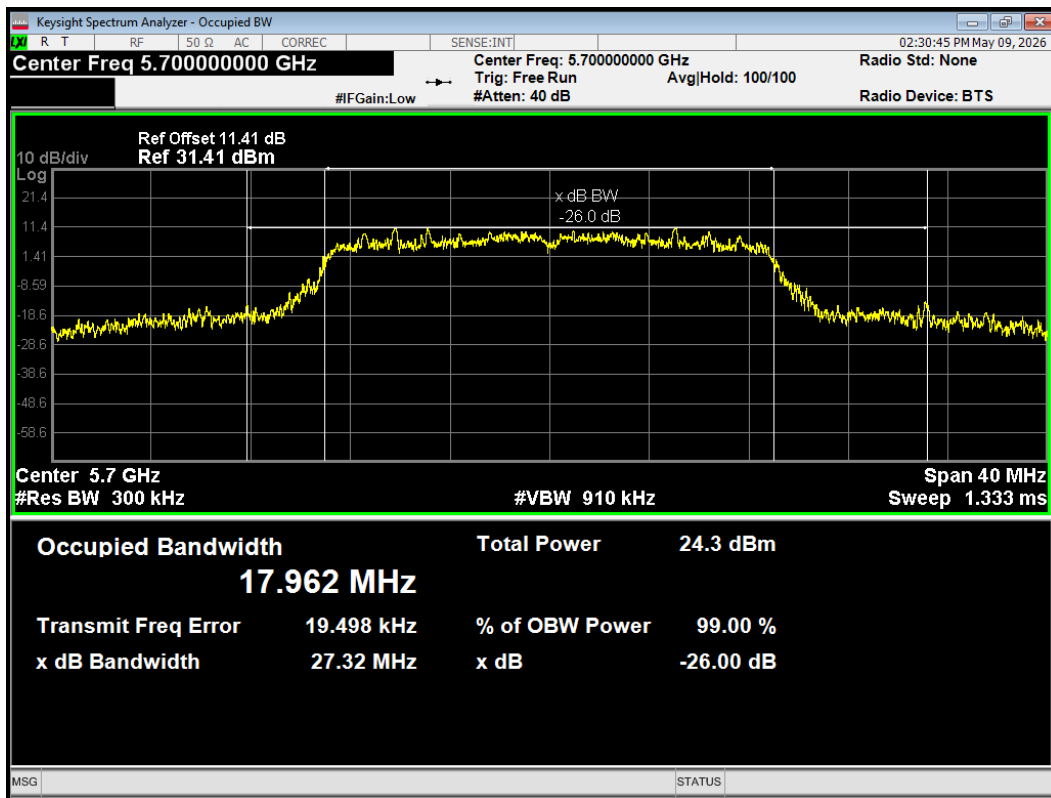
OBW 802.11ac(VHT20) 5500MHz



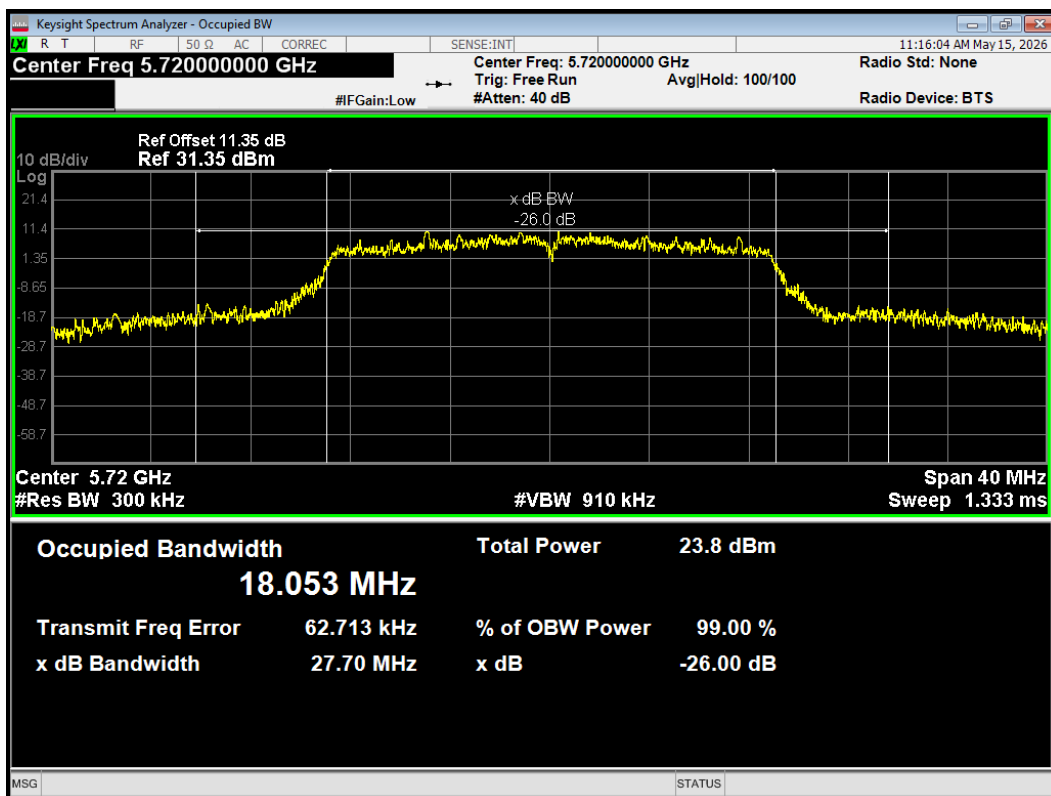
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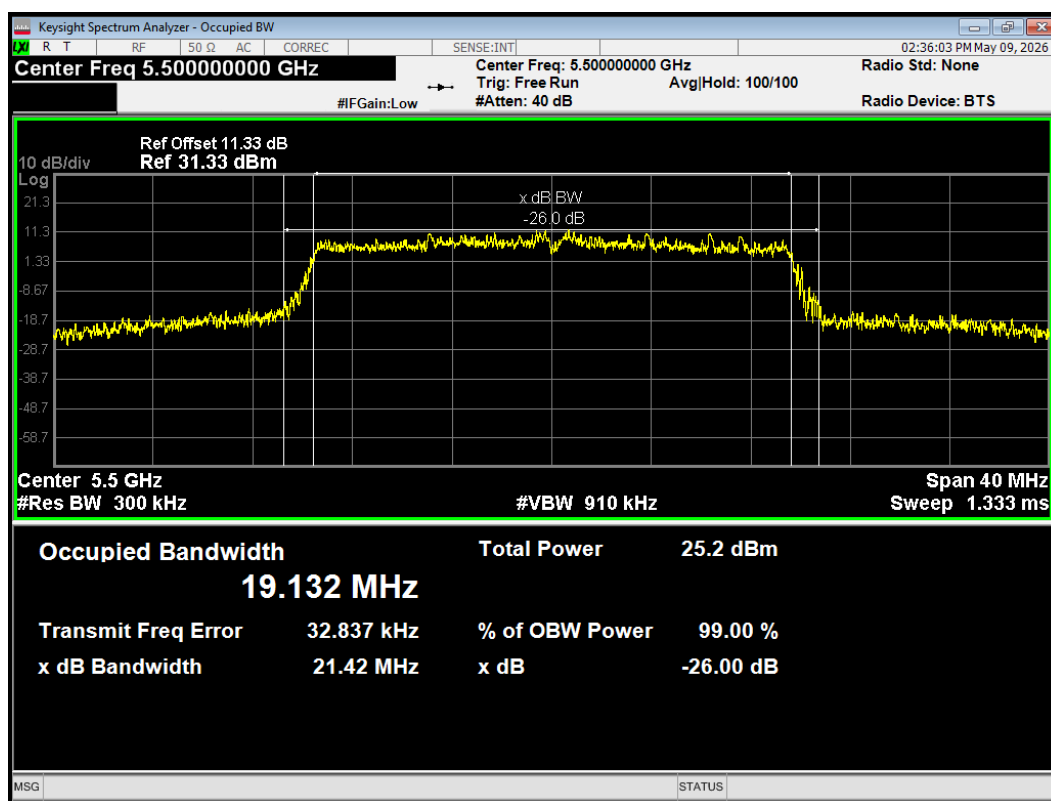
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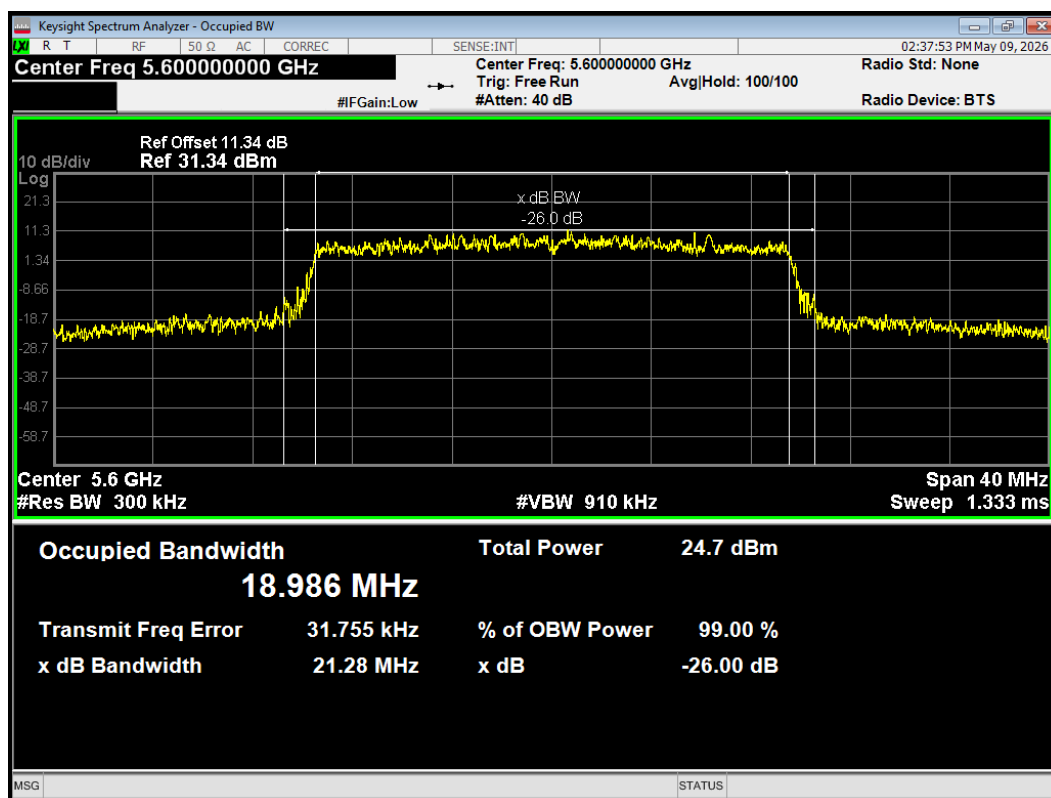
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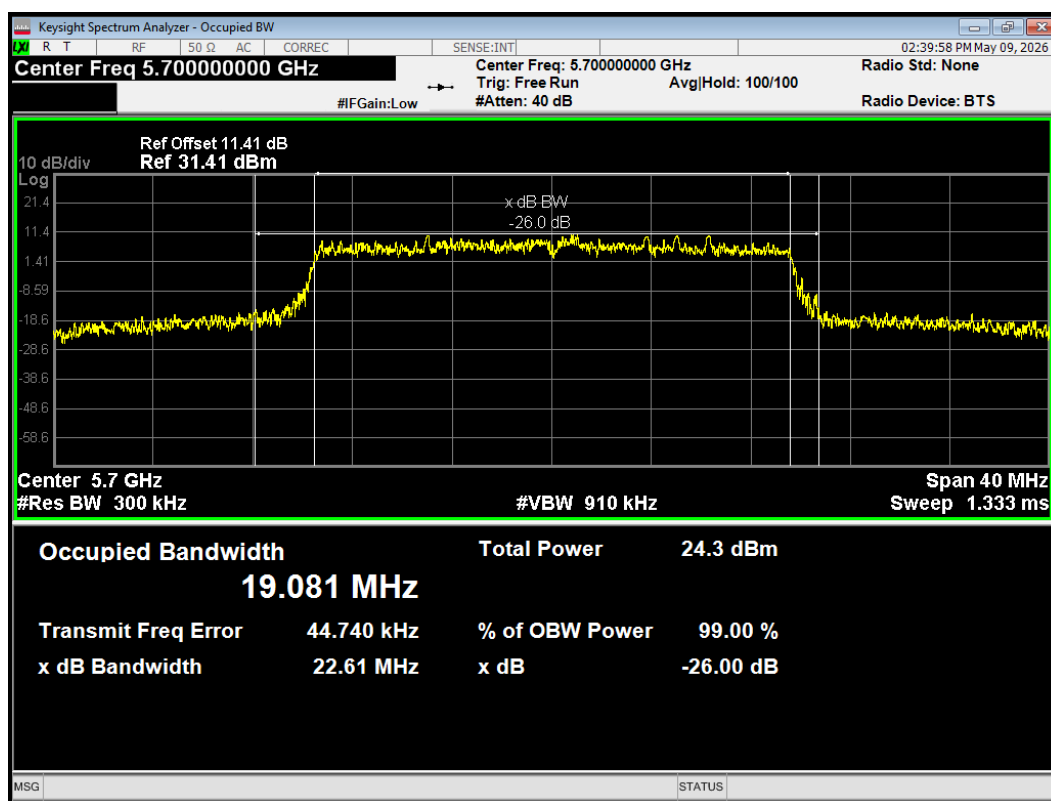
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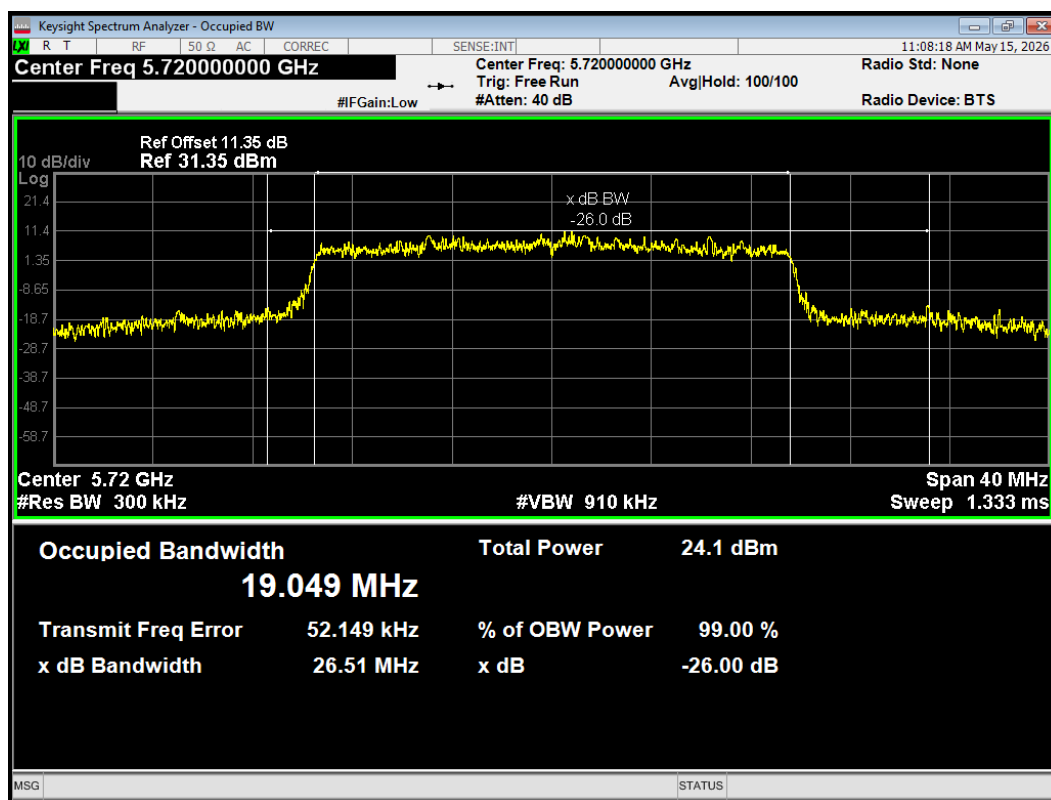
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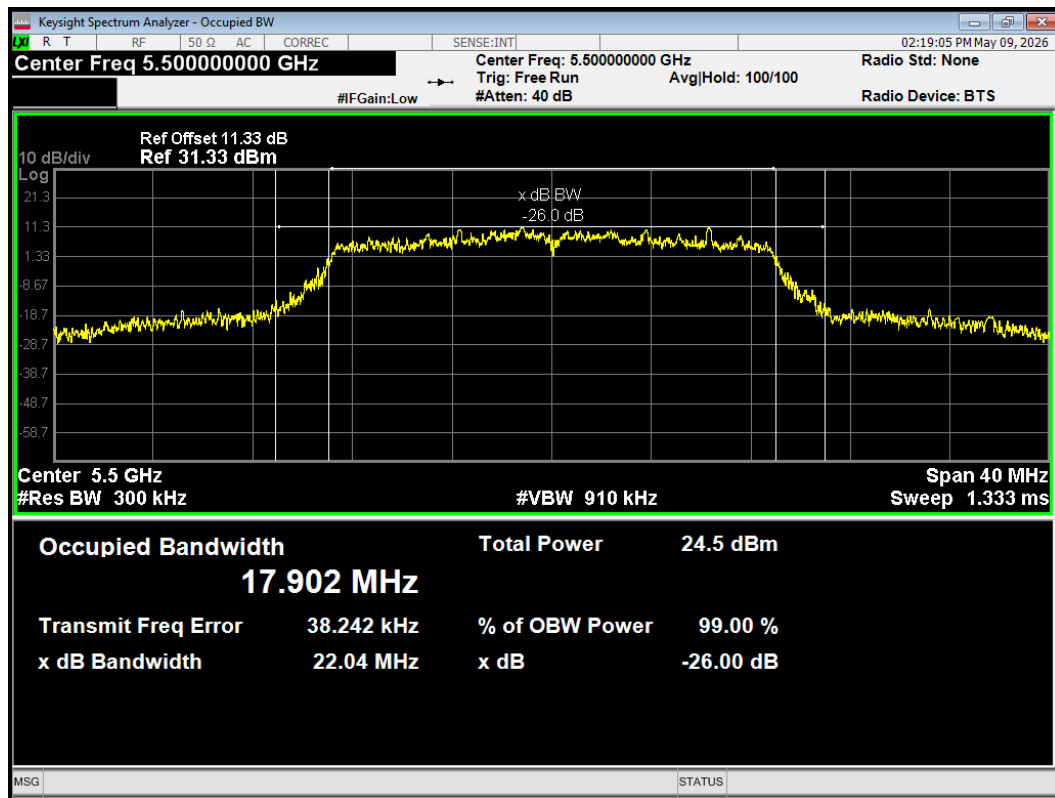
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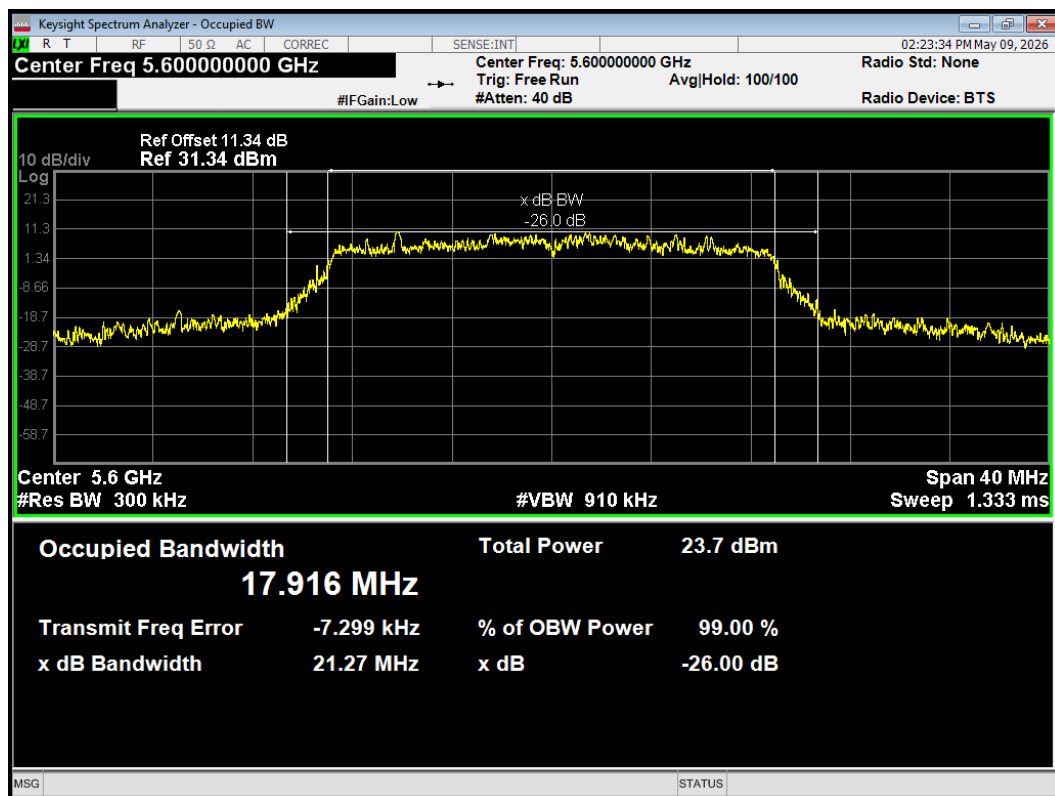
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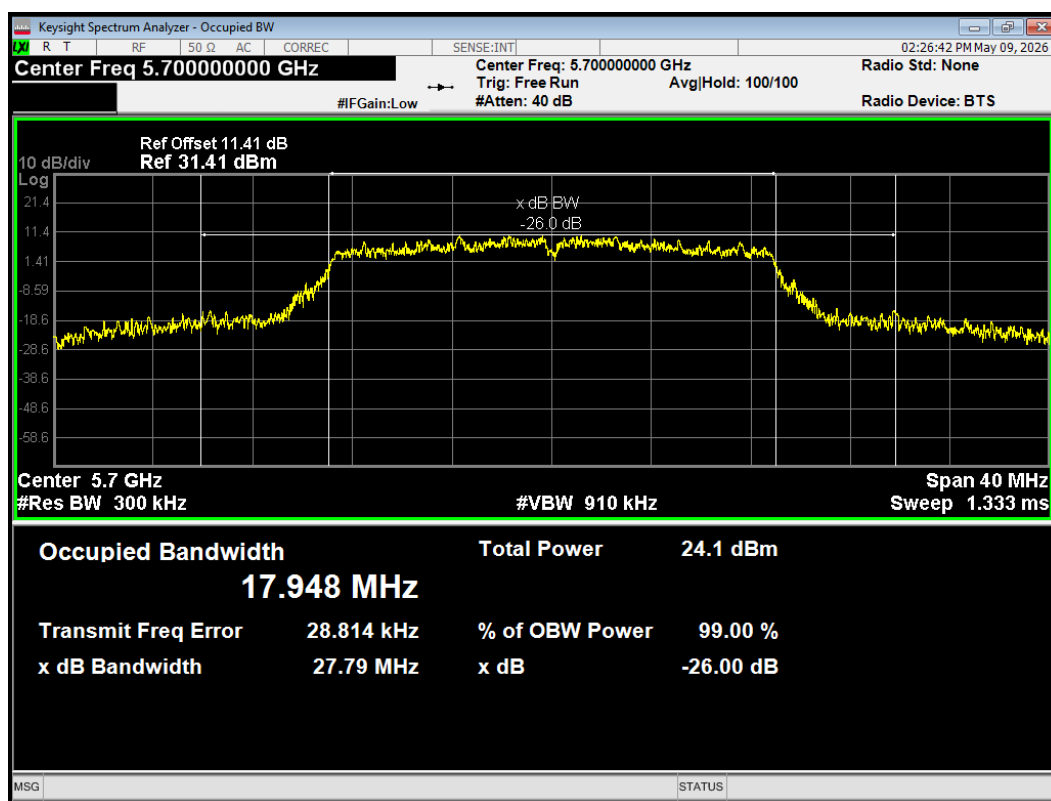
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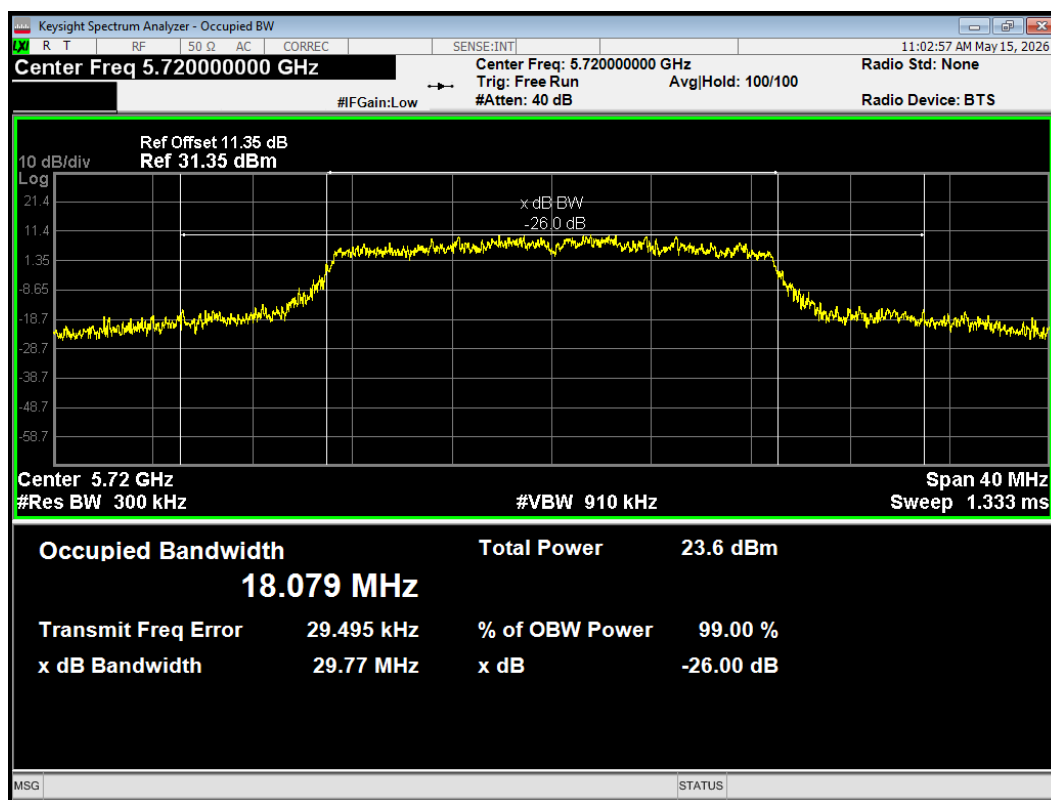
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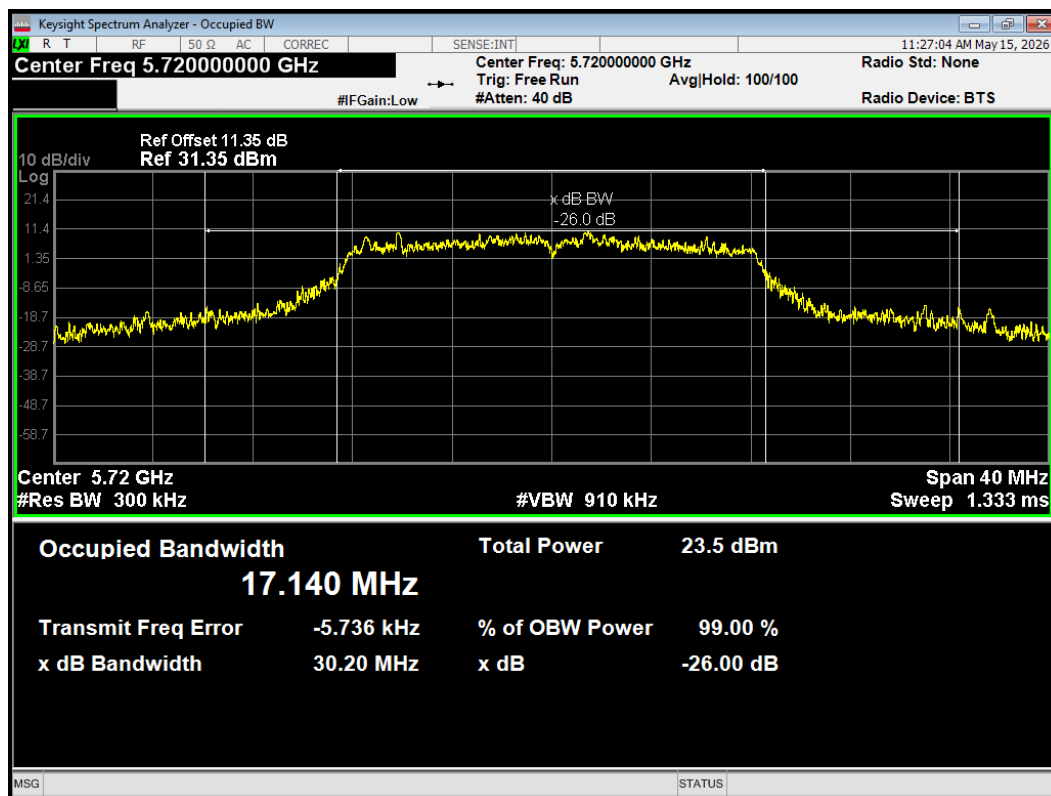
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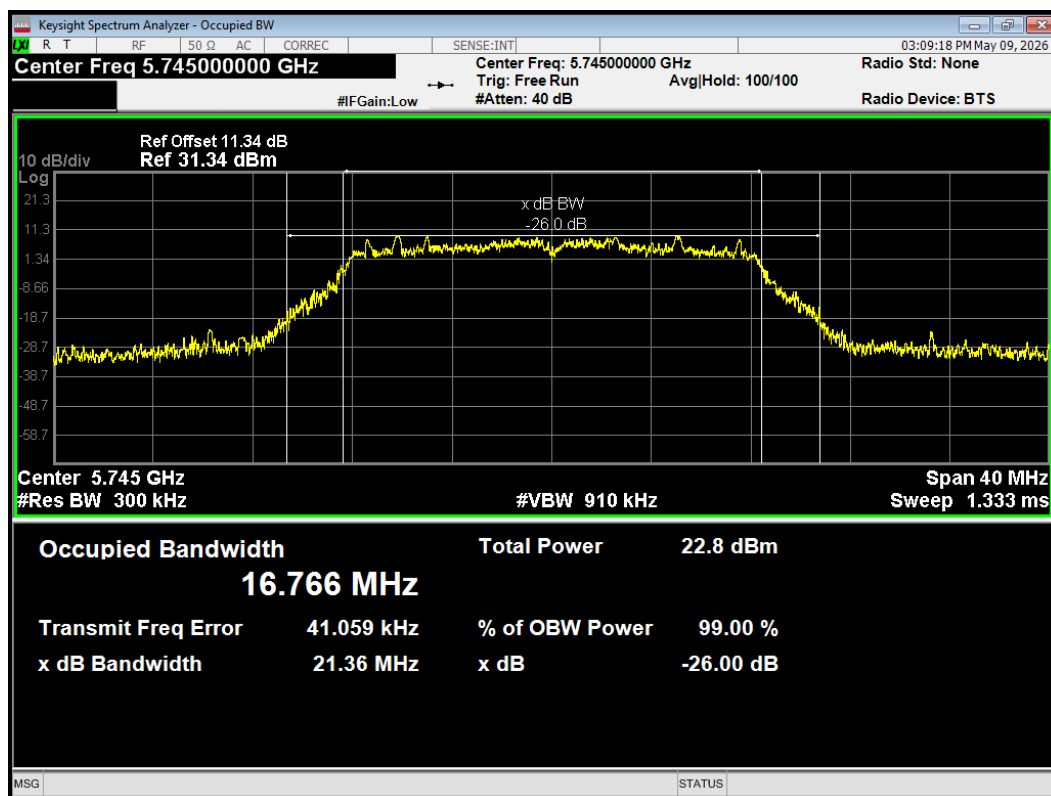
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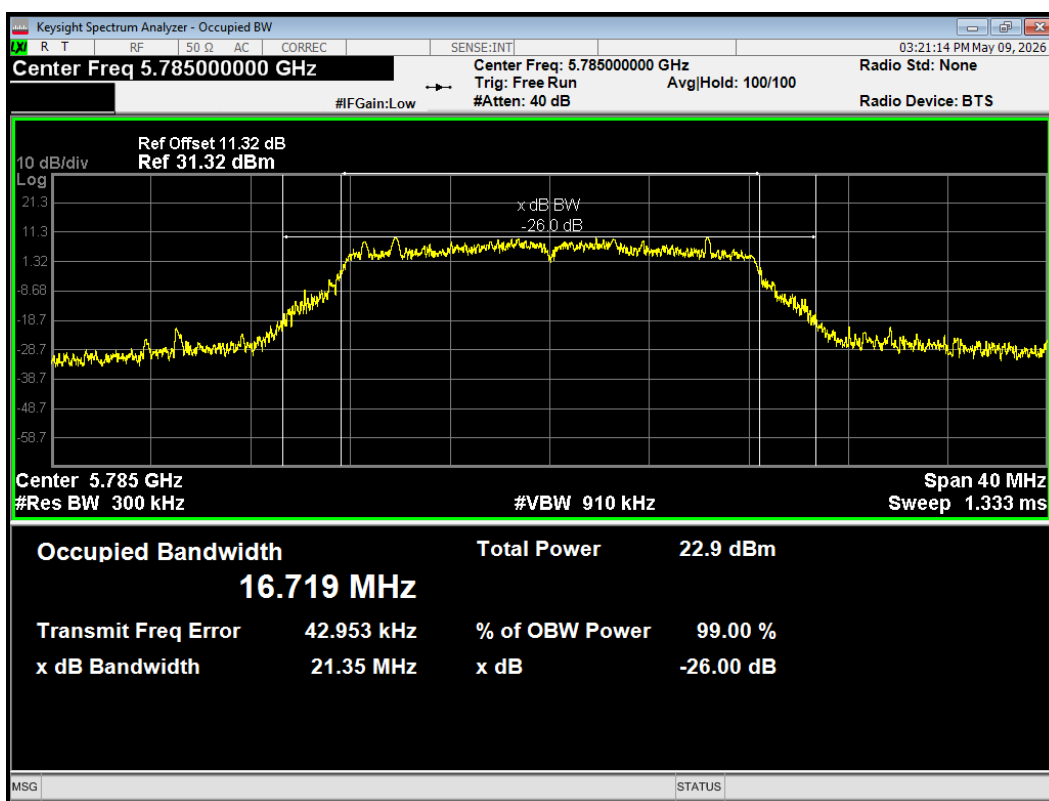
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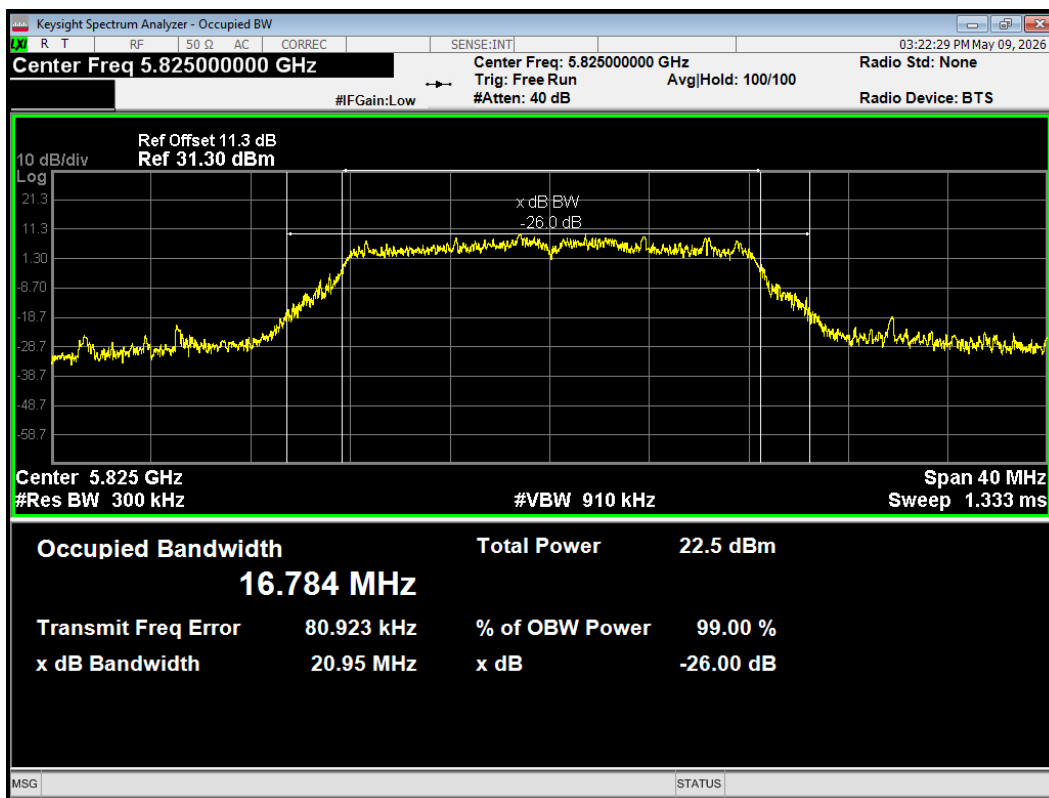
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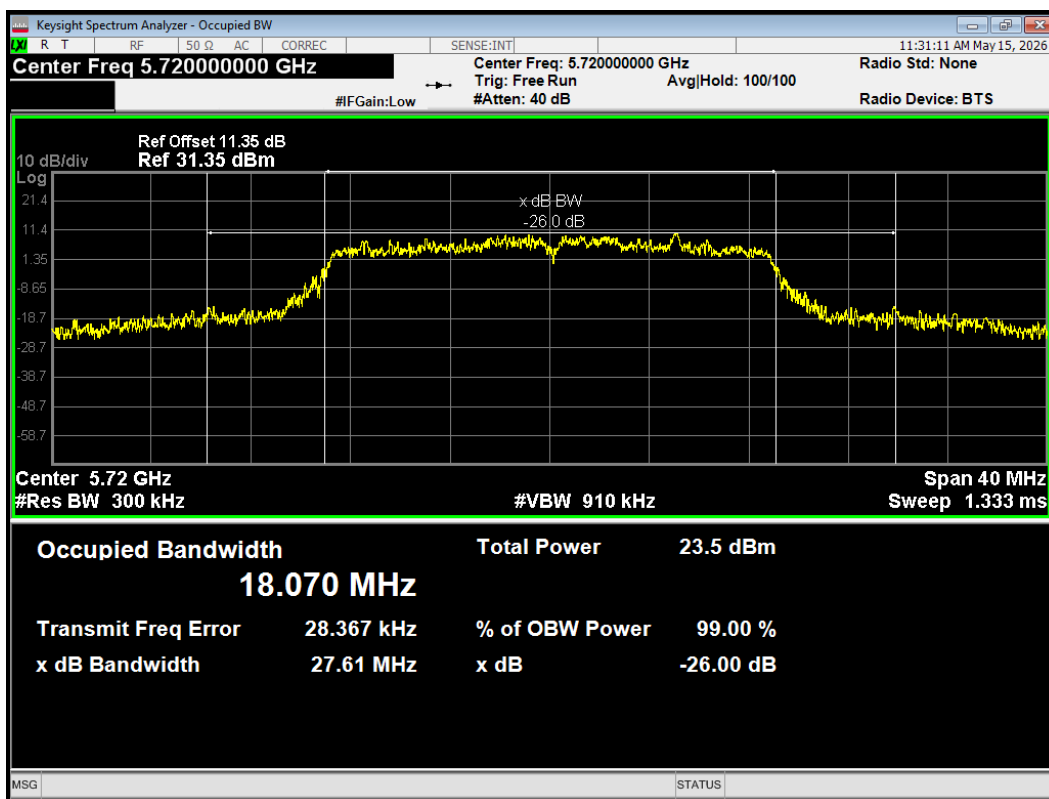
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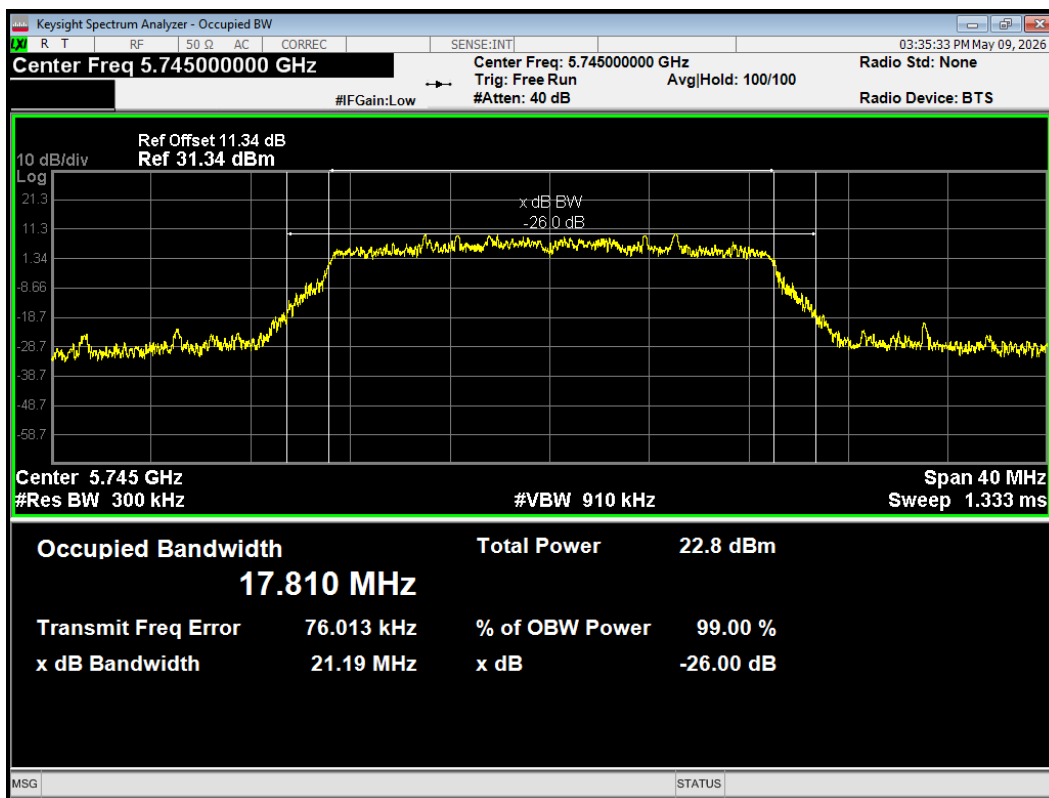
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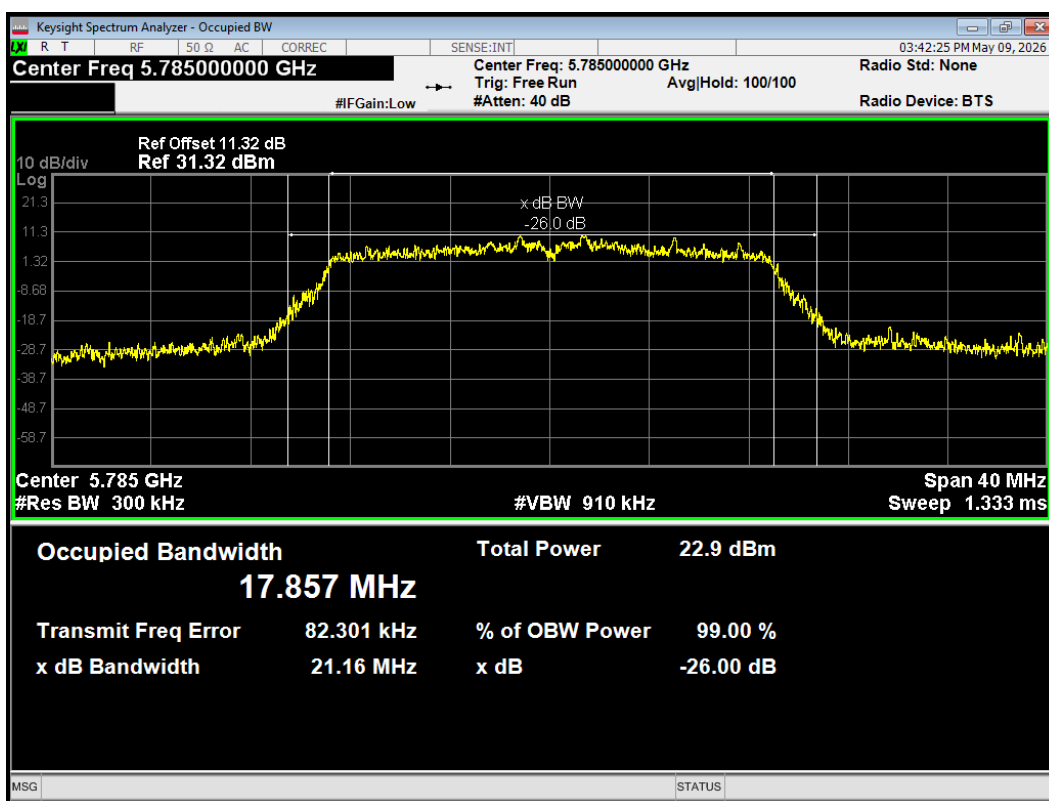
OBW 802.11ac(VHT20) 5720MHz



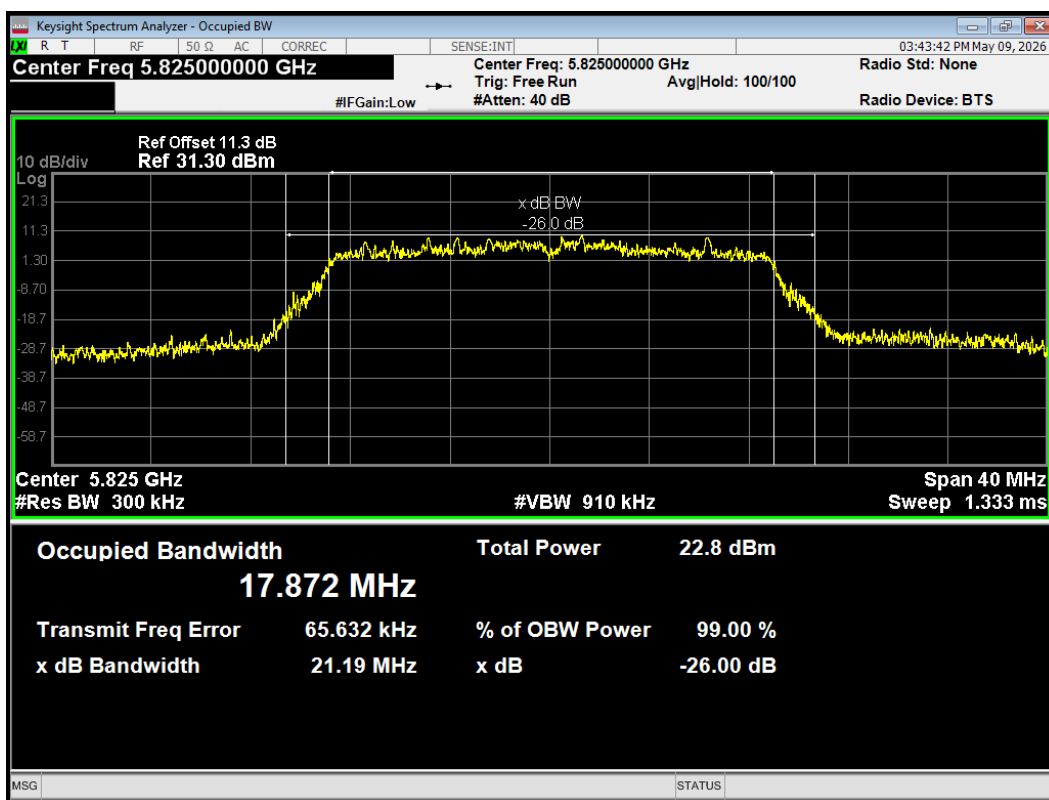
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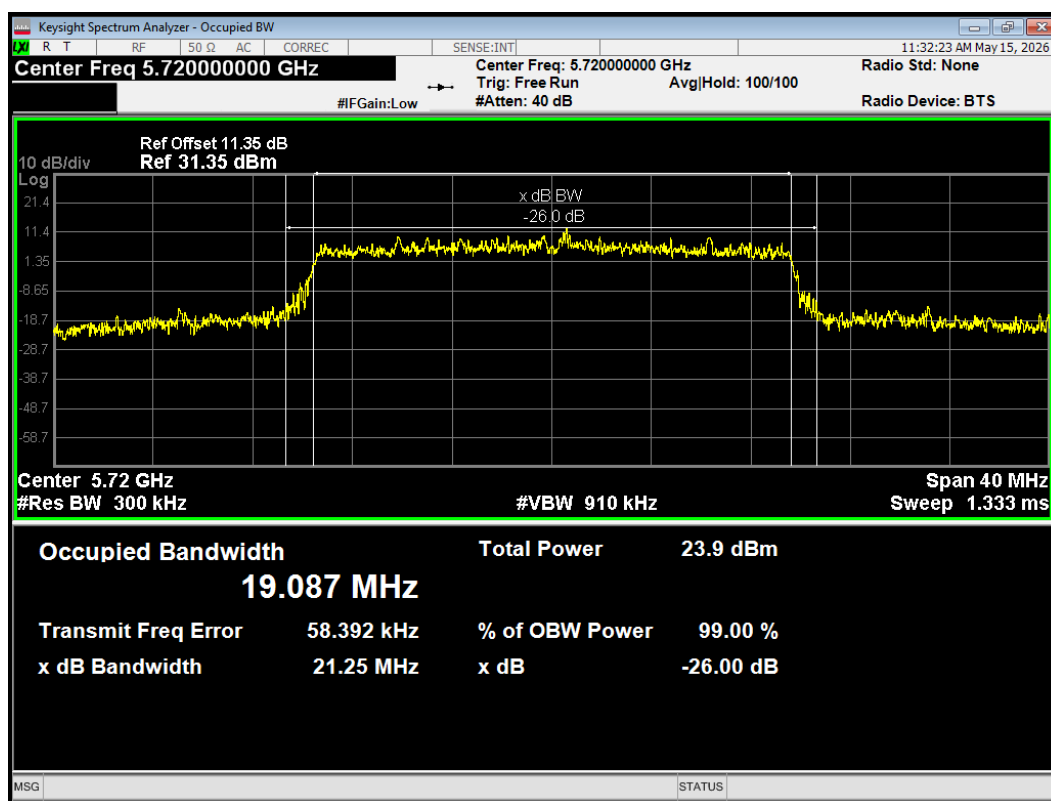
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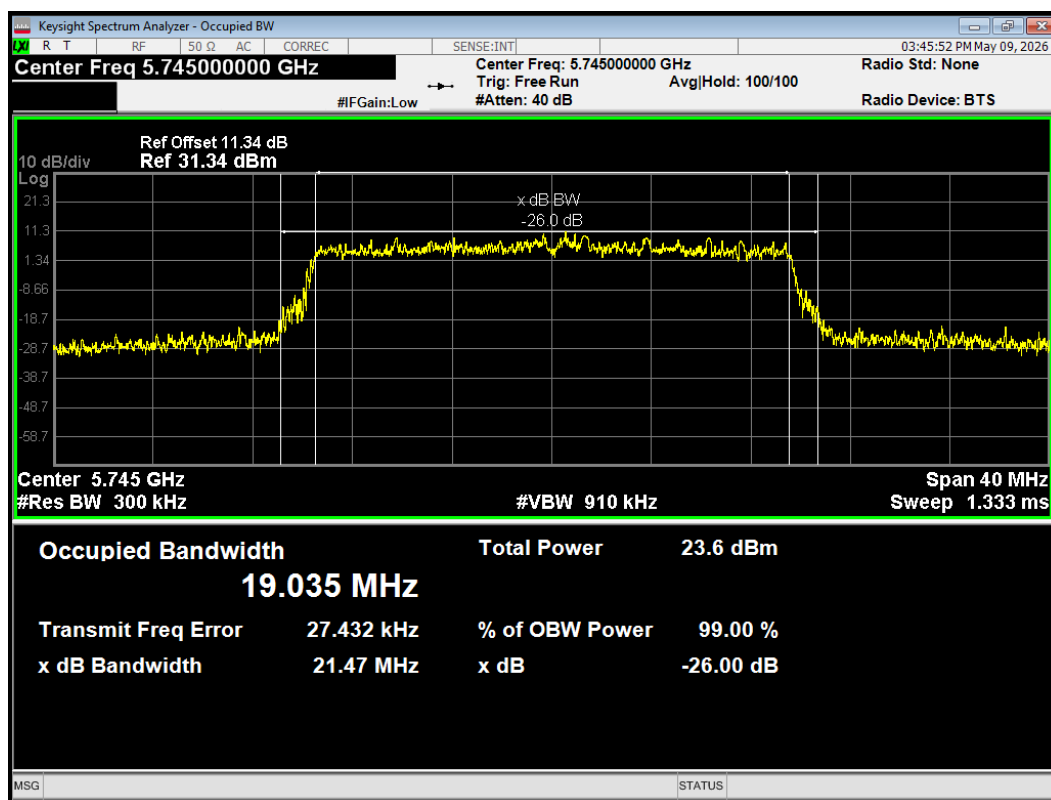
OBW 802.11ac(VHT20) 5825MHz



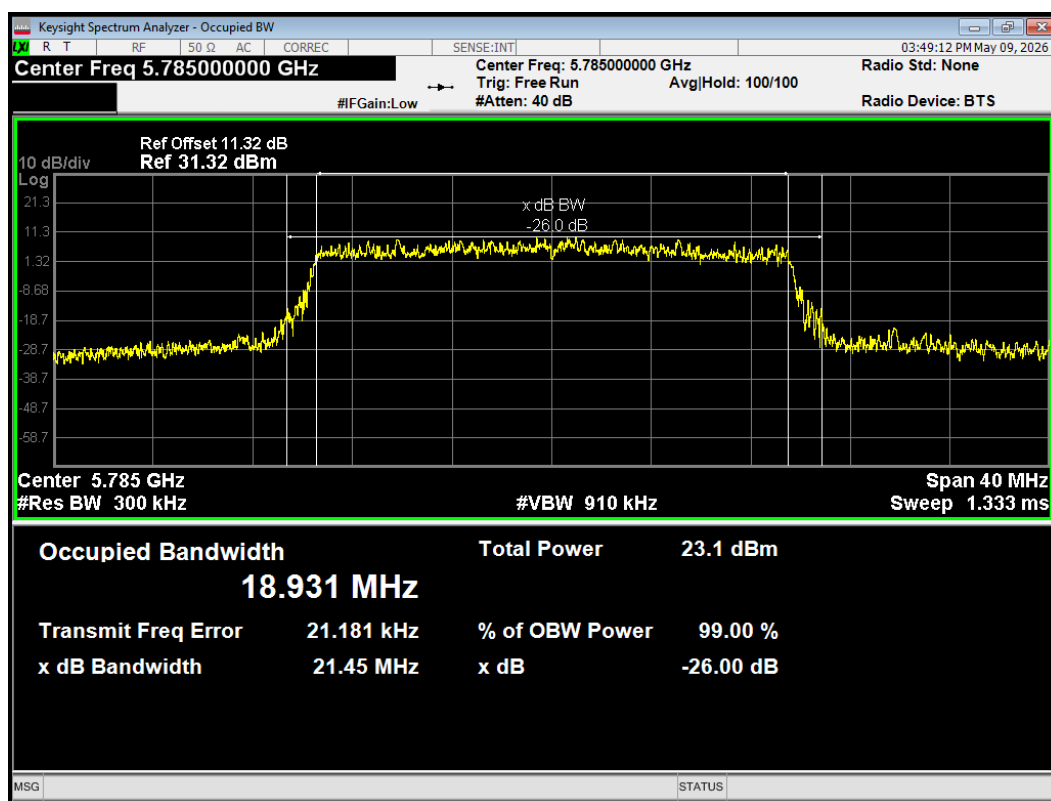
OBW 802.11ax(HE20) 5720MHz



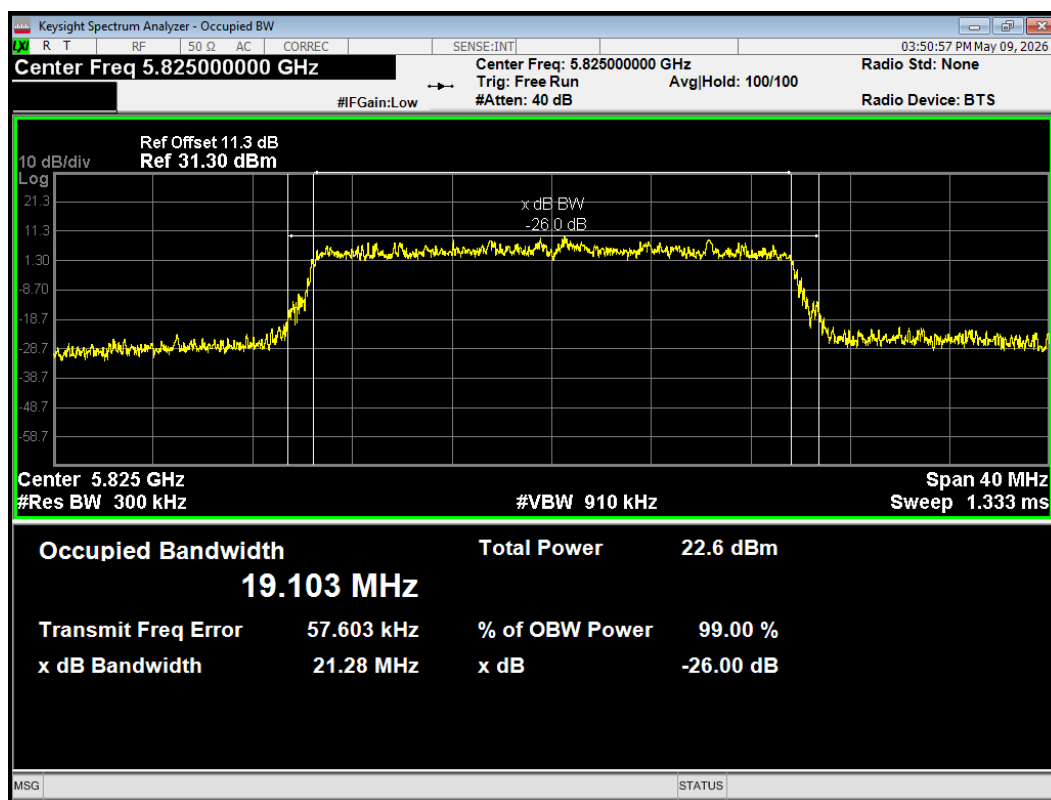
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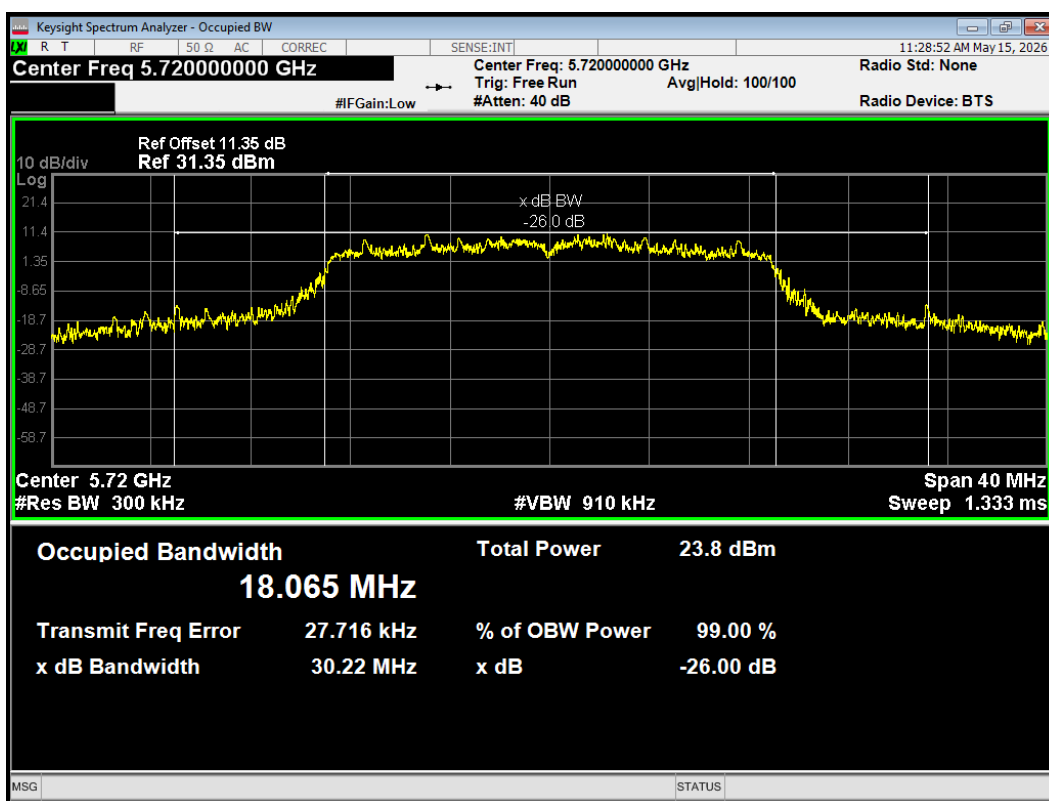
OBW 802.11ax(HE20) 5785MHz



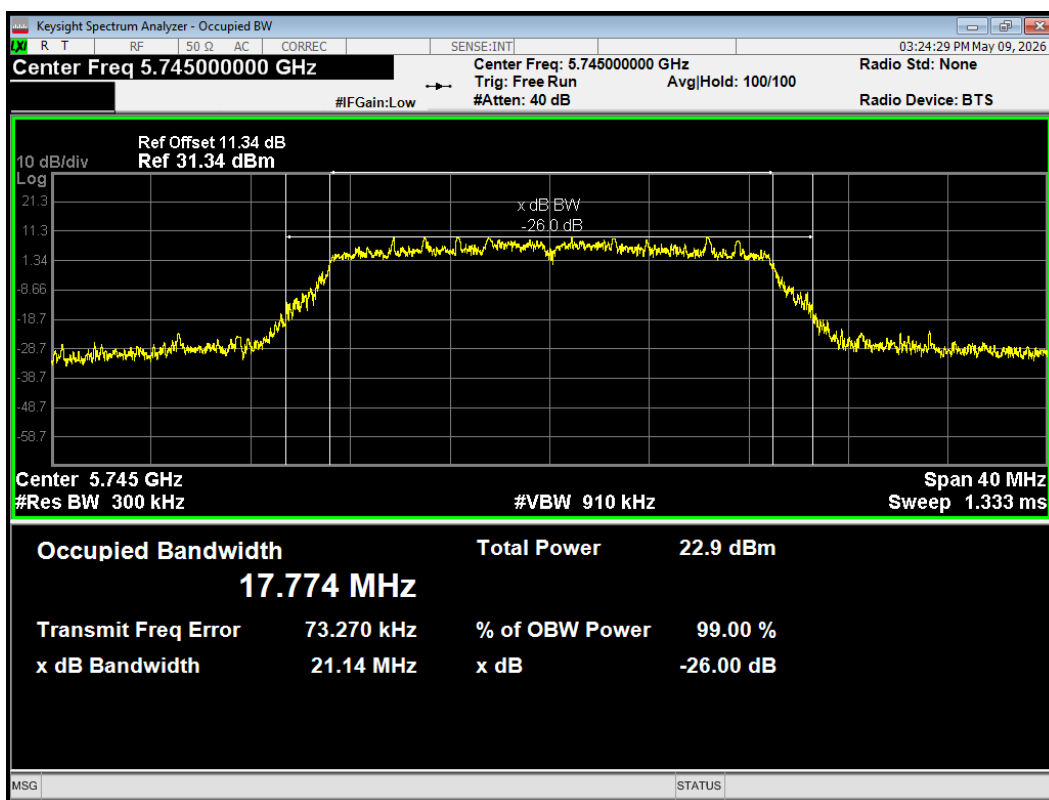
OBW 802.11ax(HE20) 5825MHz



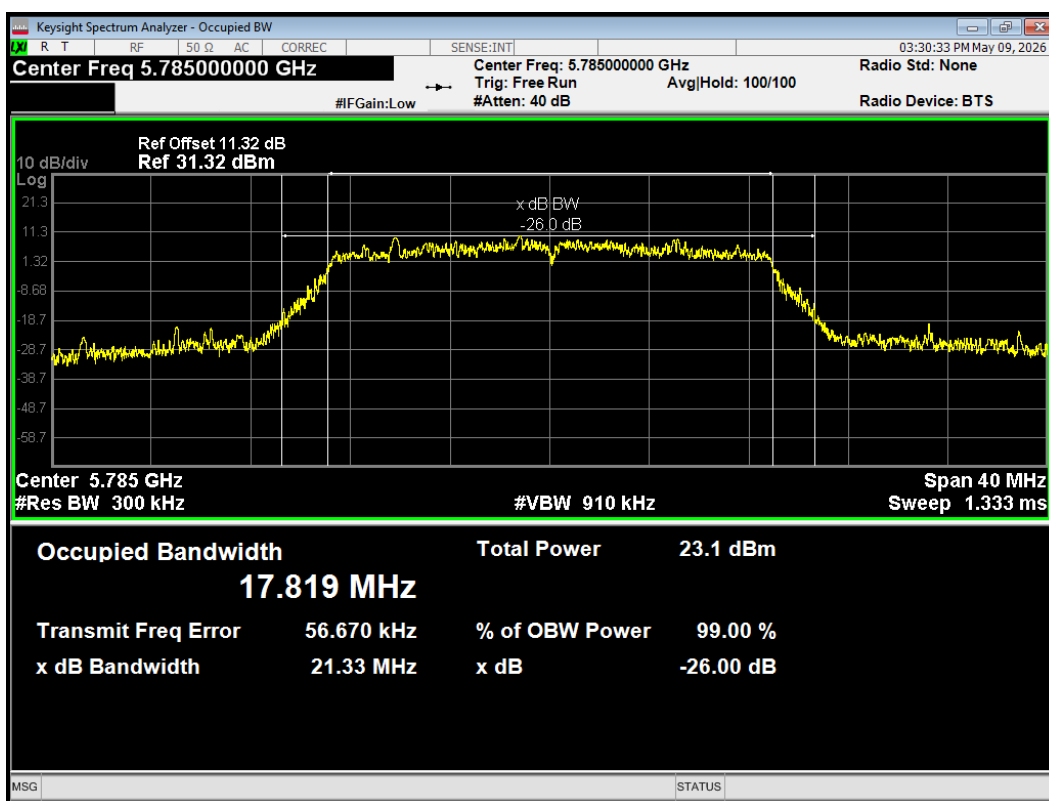
OBW 802.11n(HT20) 5720MHz



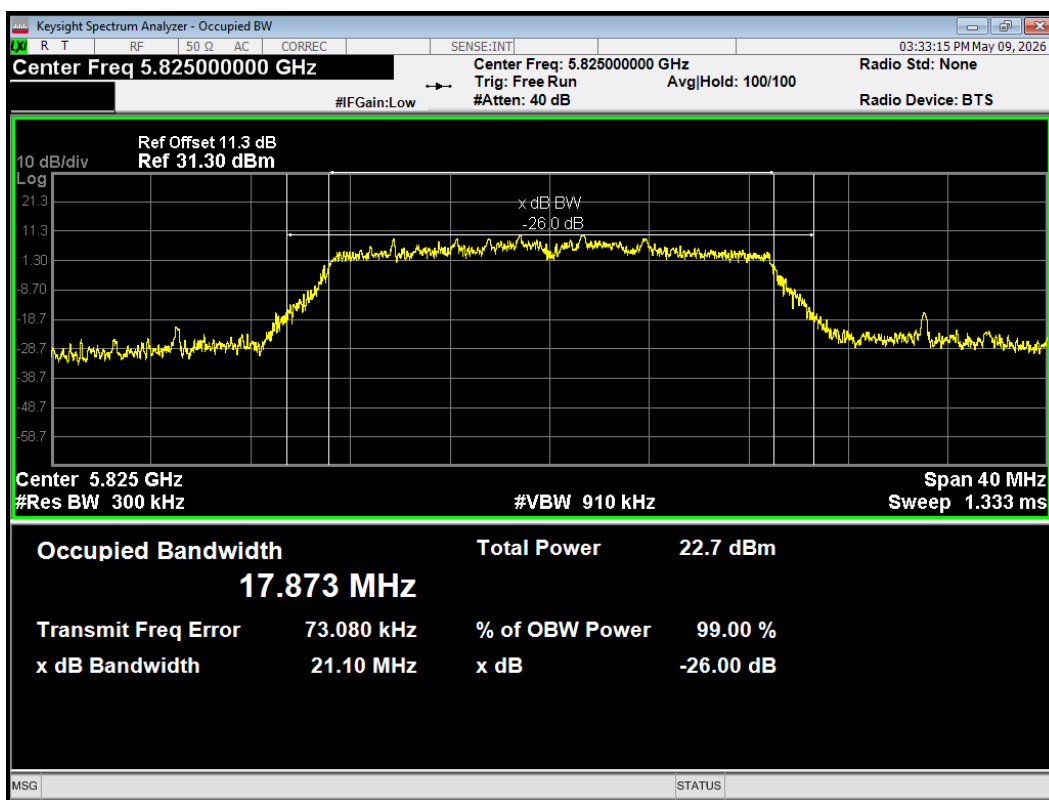
OBW 802.11n(HT20) 5745MHz



OBW 802.11n(HT20) 5785MHz



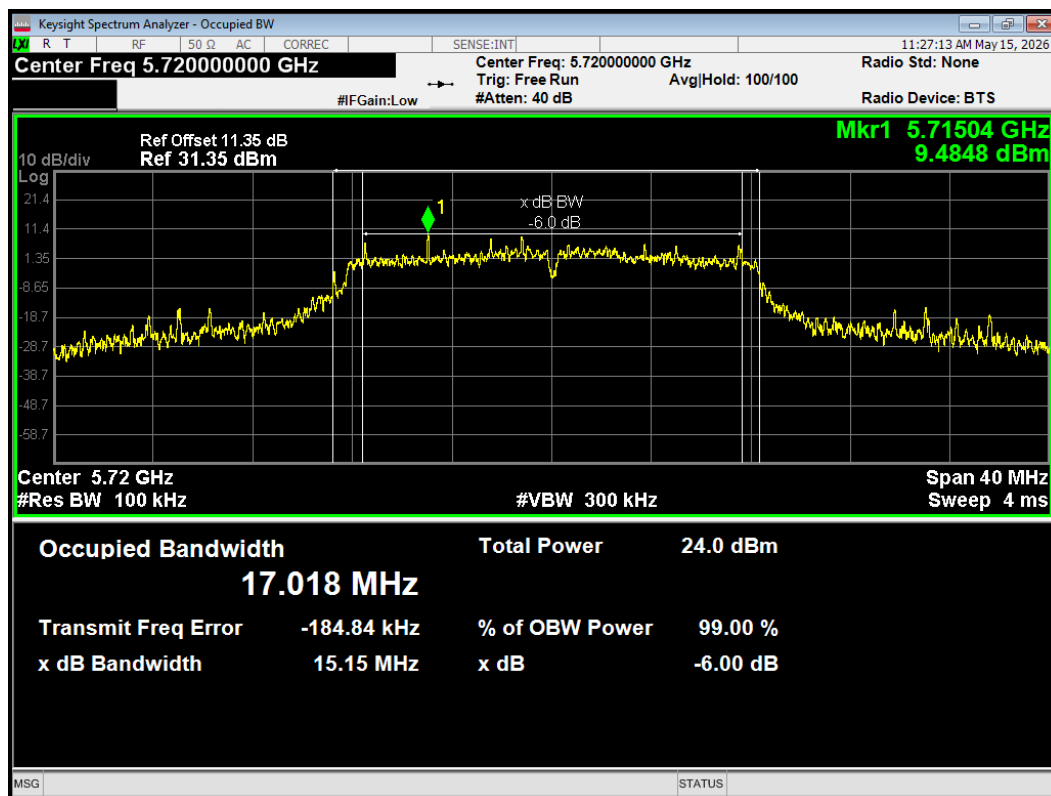
OBW 802.11n(HT20) 5825MHz



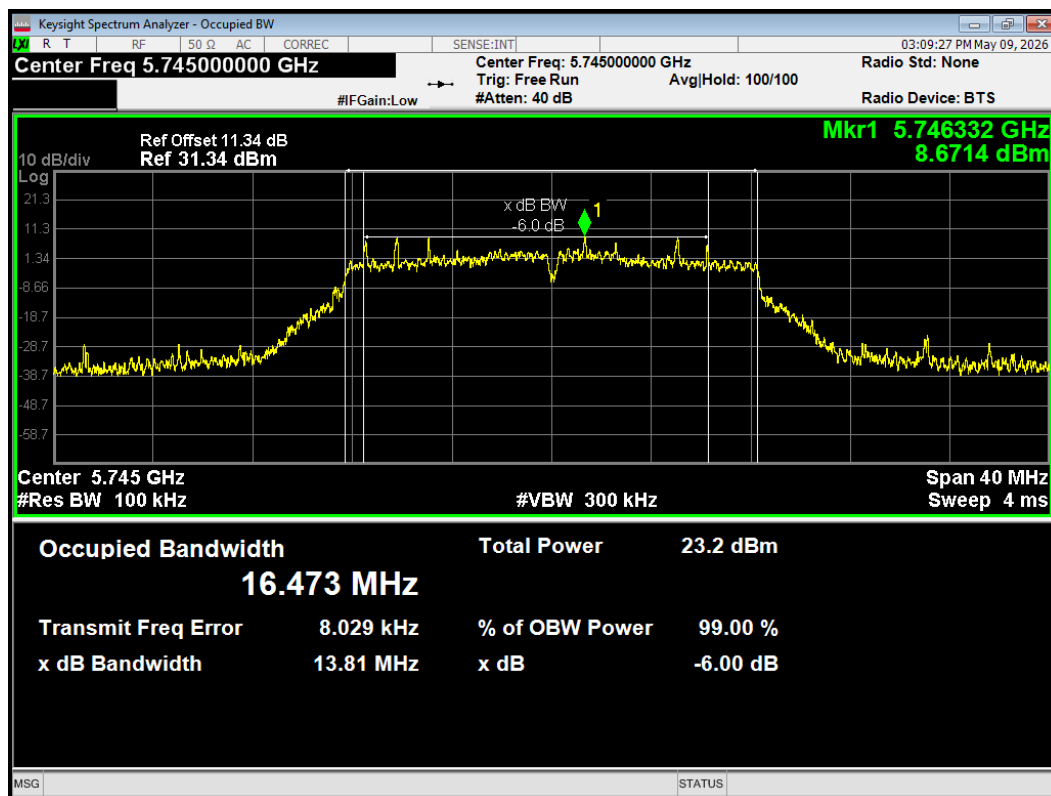
Minimum 6 dB bandwidth

U-NII-3

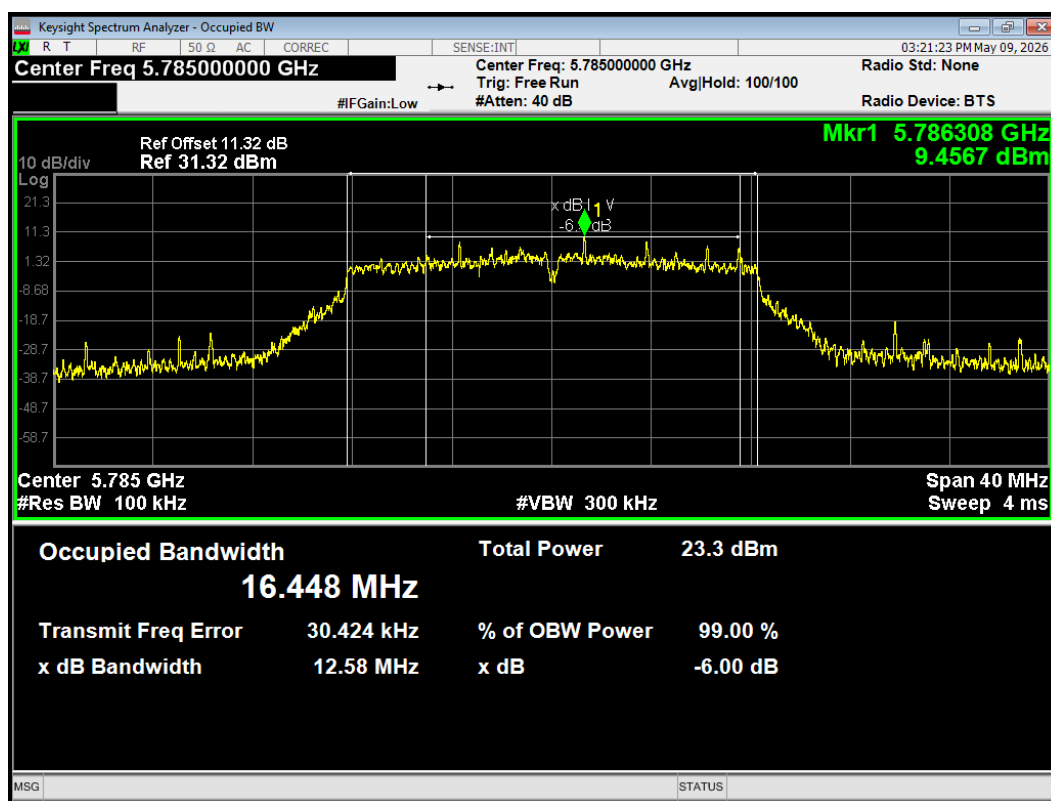
-6dB Bandwidth 802.11a 5720MHz



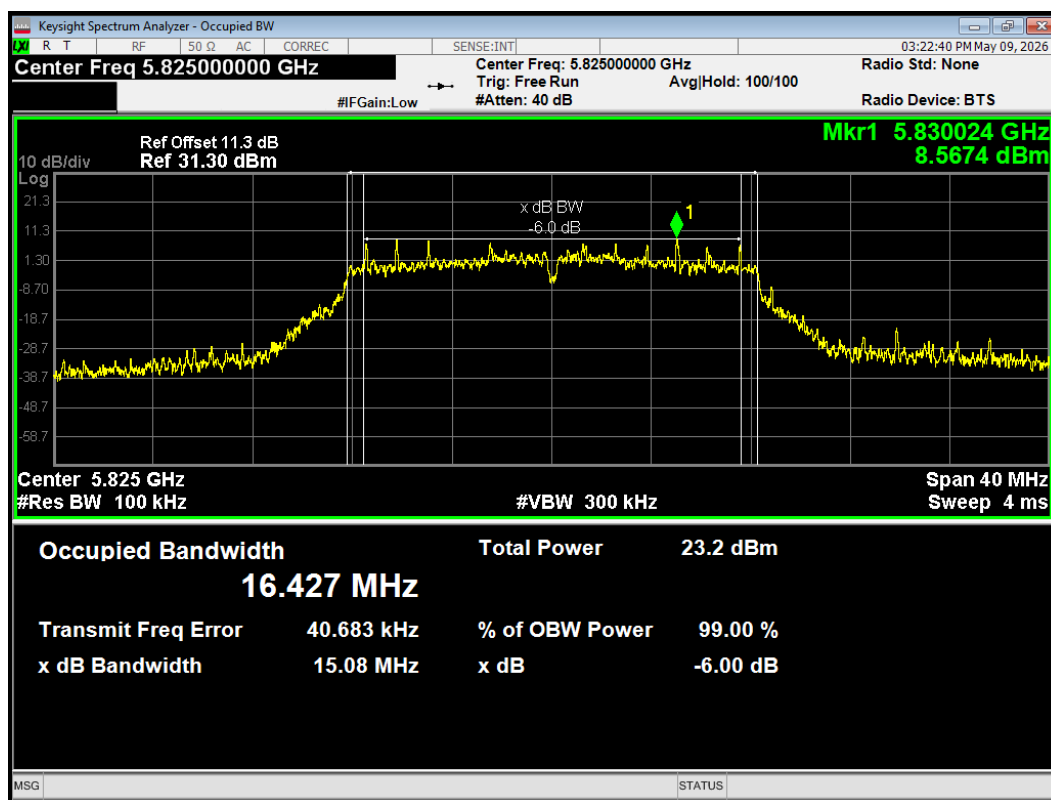
-6dB Bandwidth 802.11a 5745MHz



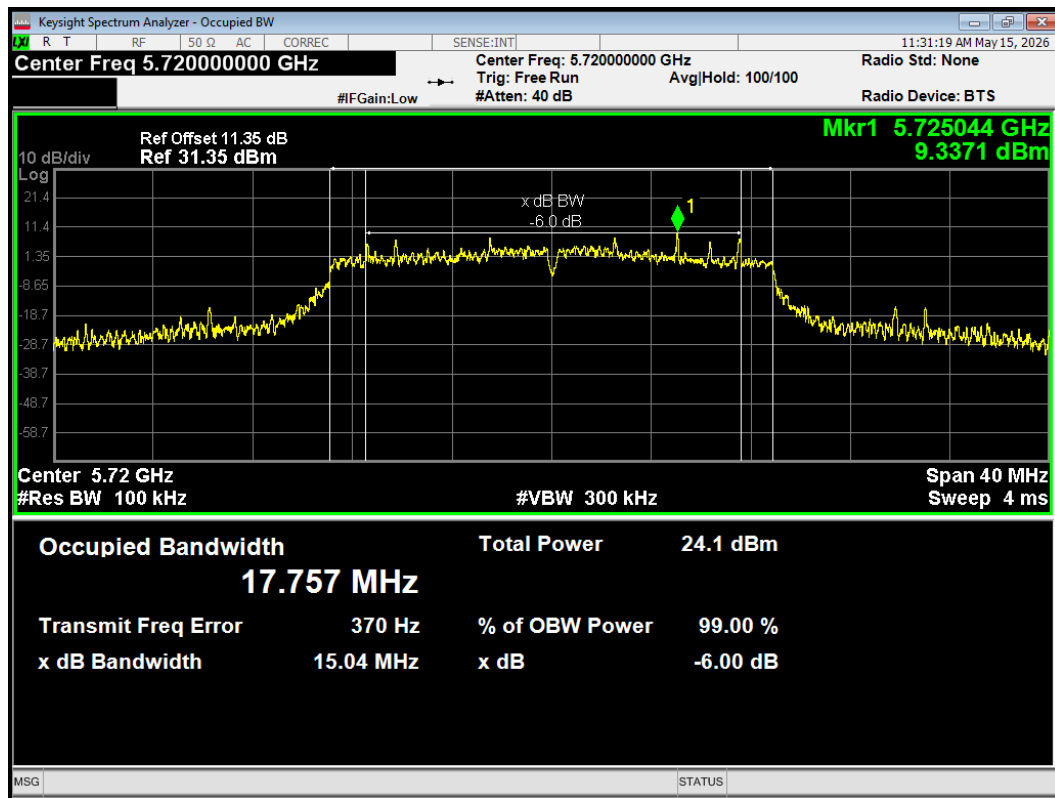
-6dB Bandwidth 802.11a 5785MHz



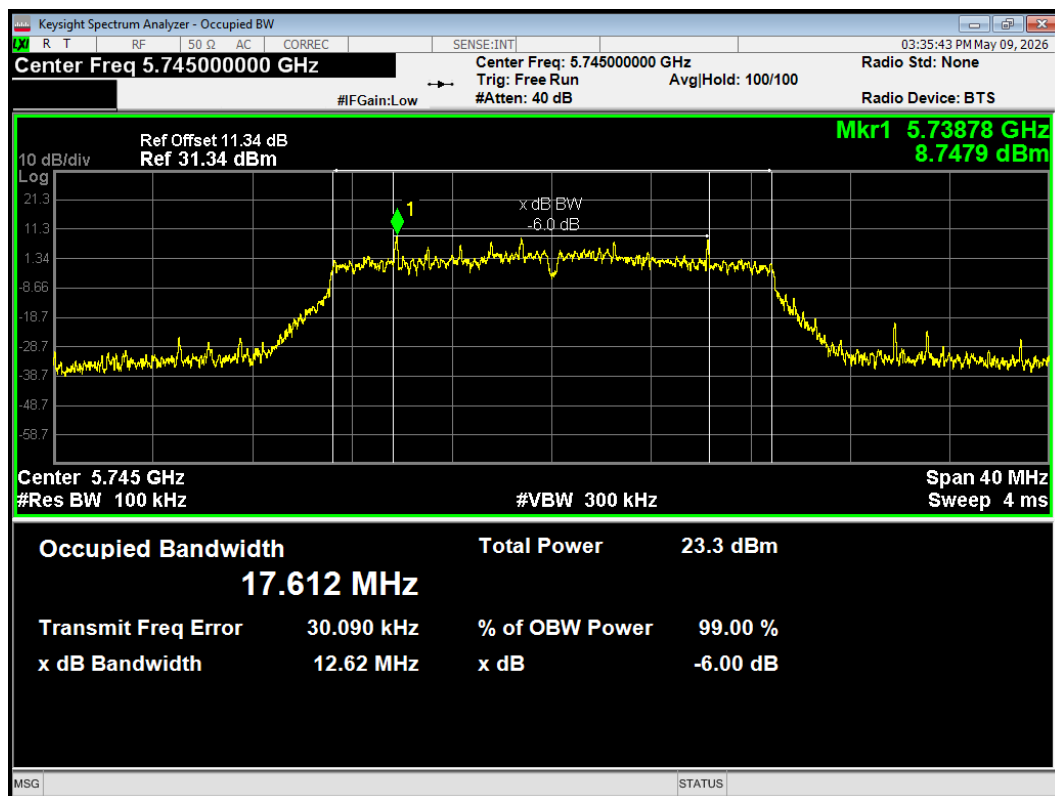
-6dB Bandwidth 802.11a 5825MHz



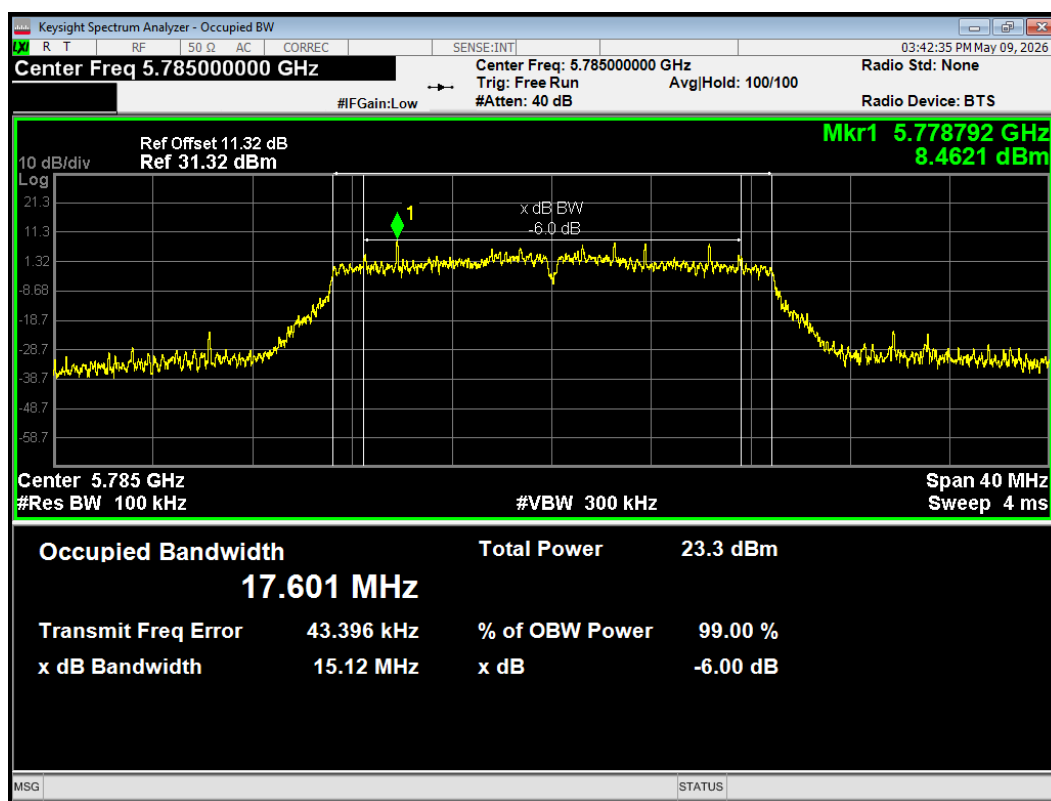
-6dB Bandwidth 802.11ac(VHT20) 5720MHz



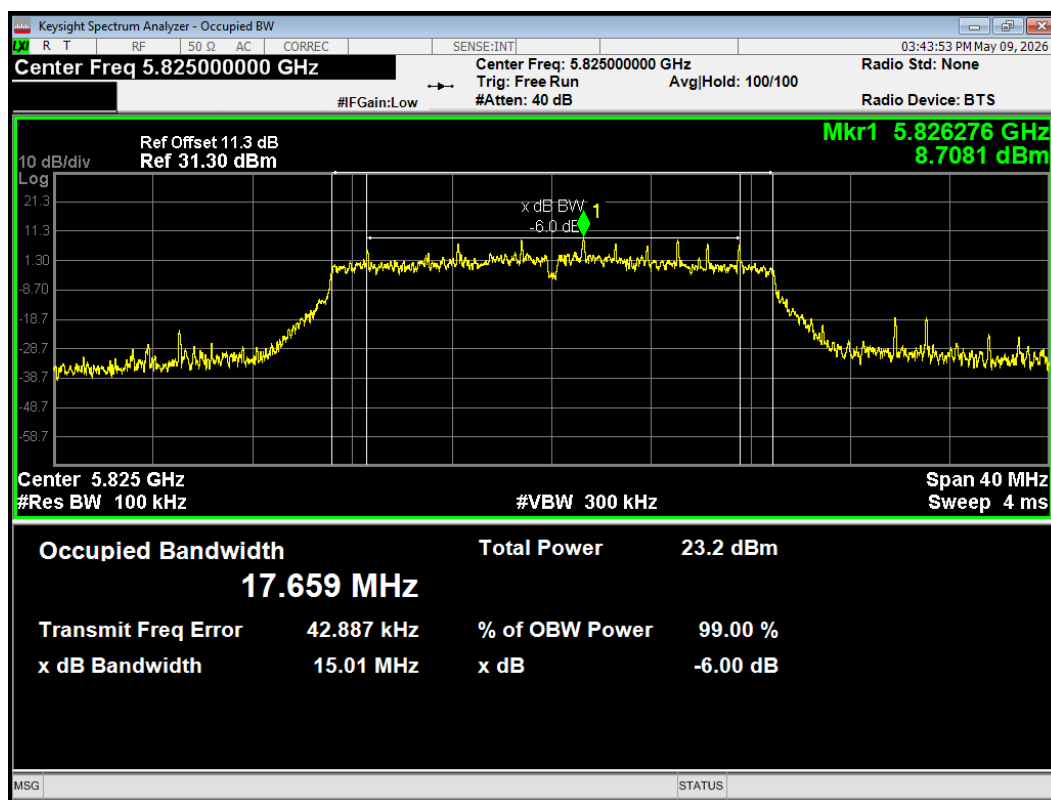
-6dB Bandwidth 802.11ac(VHT20) 5745MHz



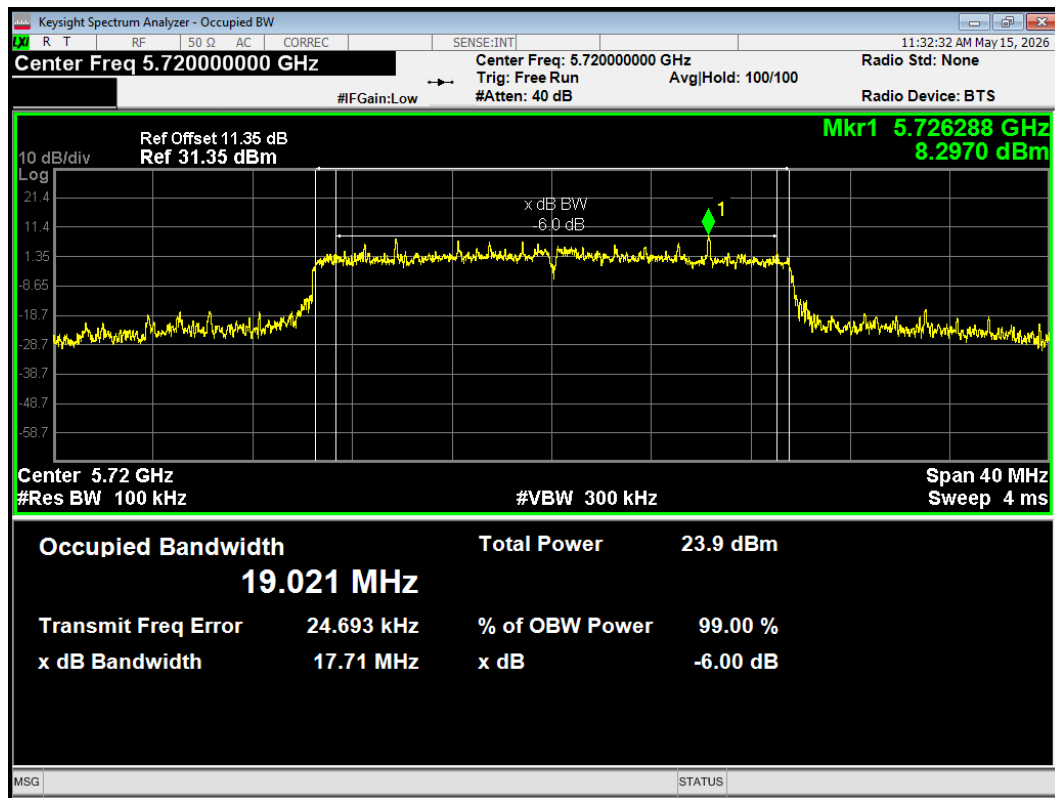
-6dB Bandwidth 802.11ac(VHT20) 5785MHz



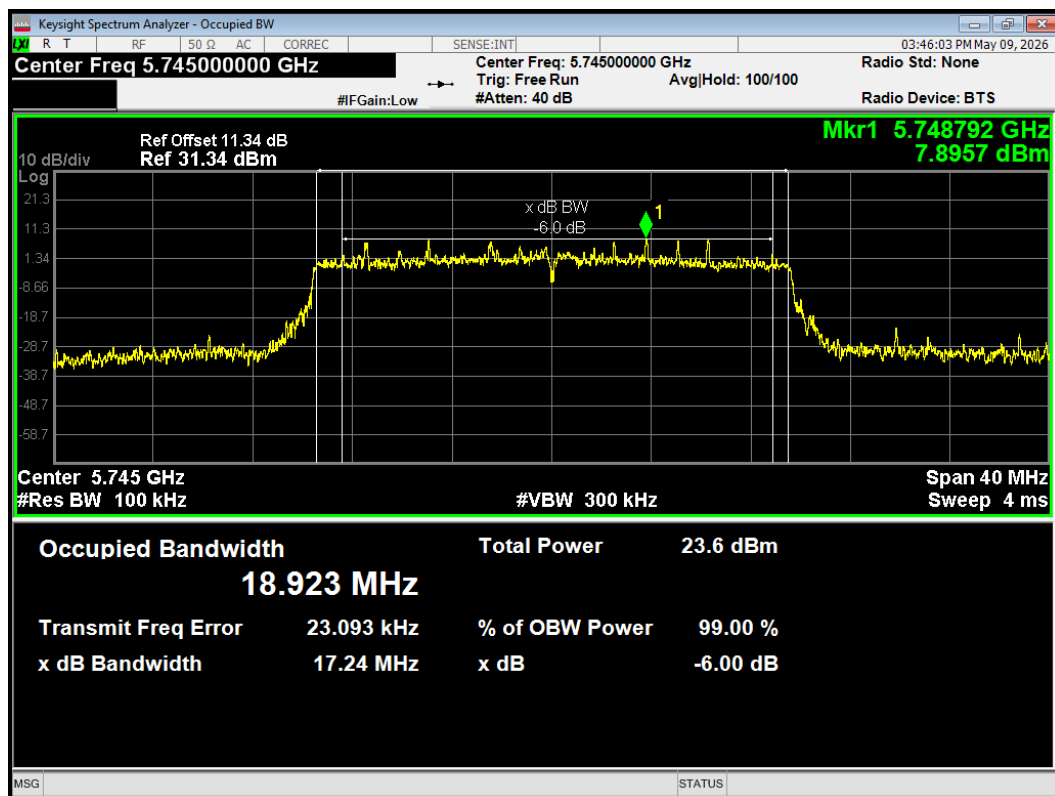
-6dB Bandwidth 802.11ac(VHT20) 5825MHz



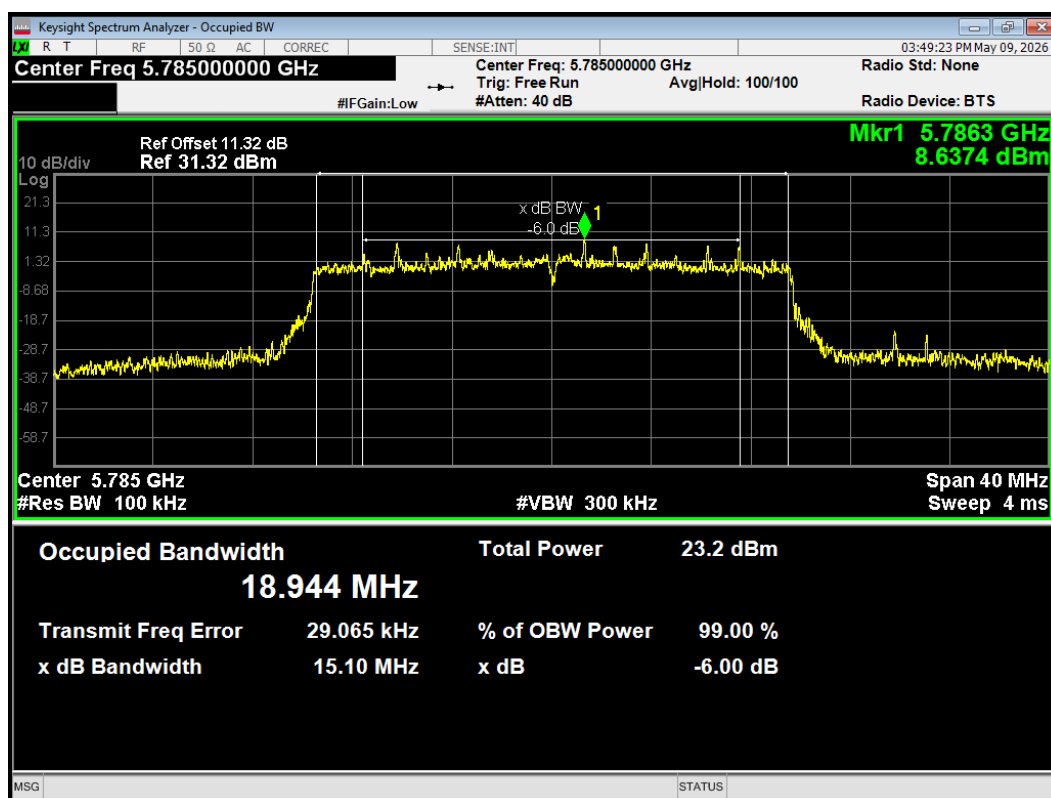
-6dB Bandwidth 802.11ax(HE20) 5720MHz



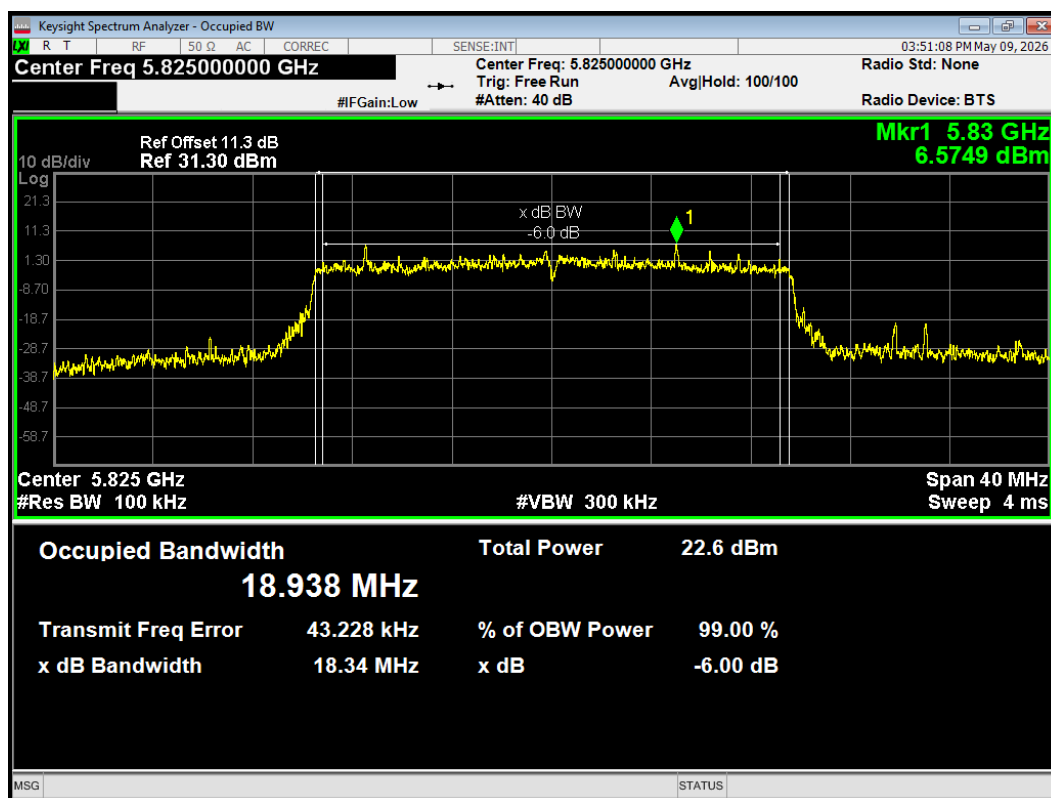
-6dB Bandwidth 802.11ax(HE20) 5745MHz



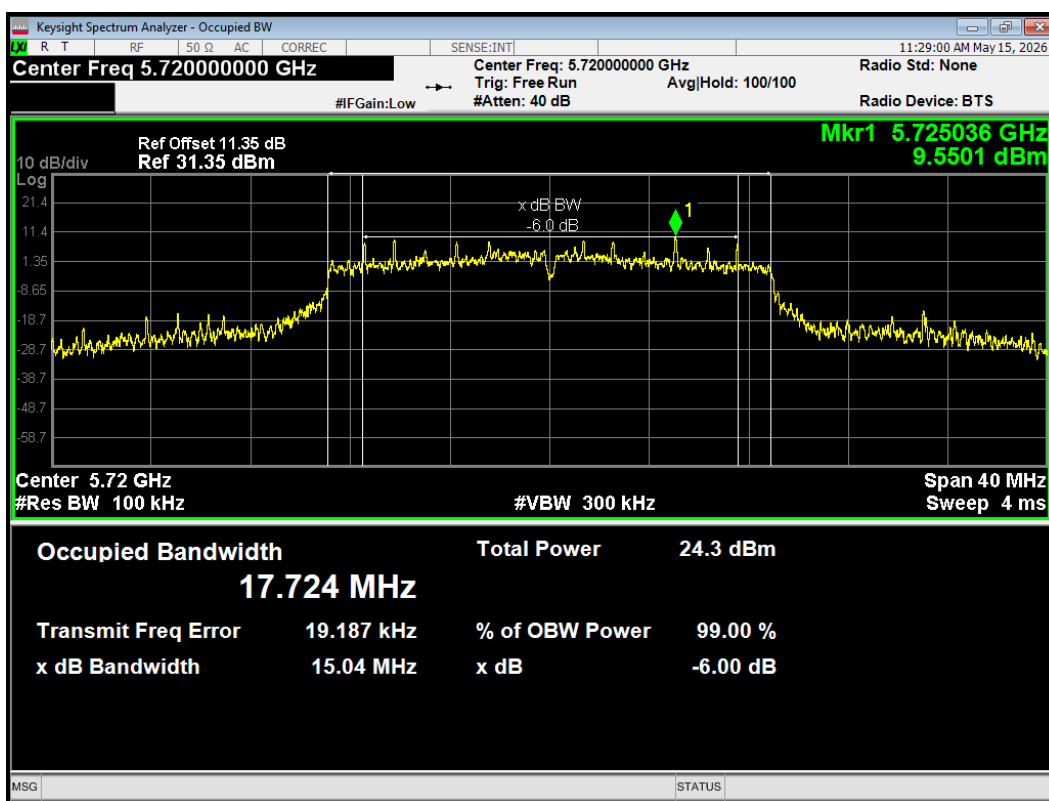
-6dB Bandwidth 802.11ax(HE20) 5785MHz



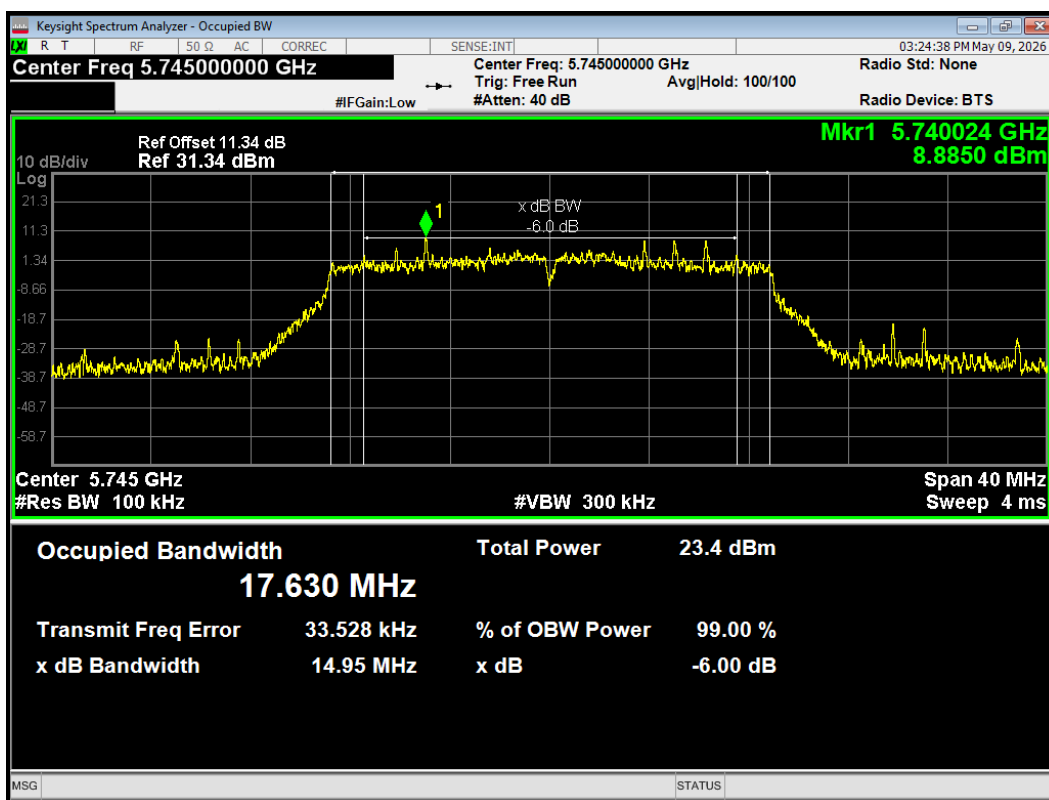
-6dB Bandwidth 802.11ax(HE20) 5825MHz



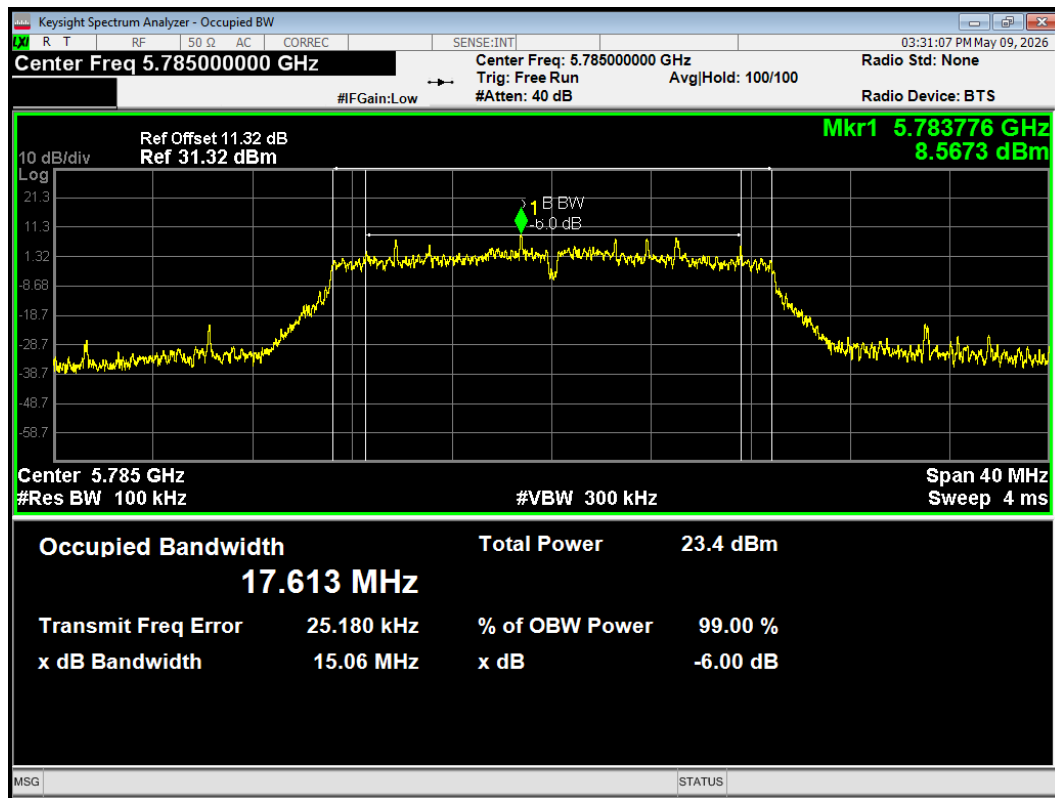
-6dB Bandwidth 802.11n(HT20) 5720MHz



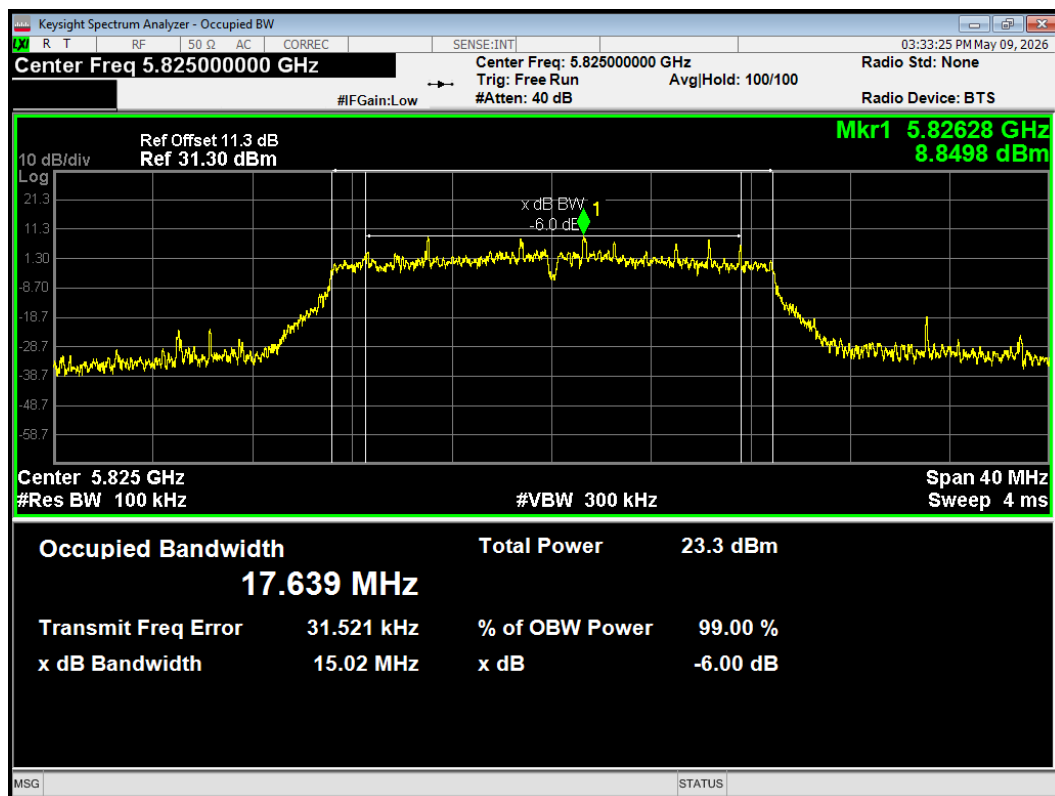
-6dB Bandwidth 802.11n(HT20) 5745MHz



-6dB Bandwidth 802.11n(HT20) 5785MHz



-6dB Bandwidth 802.11n(HT20) 5825MHz



6.2. Average Power Output

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11a	0.421	3.75
802.11n HT20	0.409	3.88
802.11ac VHT20	0.412	3.85
802.11ax HE20	0.359	4.45
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Band	Power Index
U-NII-1	85
U-NII-2A	85
U-NII-2C	85
U-NII-3	85

Test Mode		Channel/ Frequency (MHz)	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit (dBm)
U-NII-2A	802.11a	52/5260	20.96	24.21	24.00
		60/5300	21.03	24.23	24.00
		64/5320	21.21	24.27	24.00
	802.11n HT20	52/5260	25.63	25.09	24.00
		60/5300	21.49	24.32	24.00
		64/5320	25.98	25.15	24.00
	802.11ac VHT20	52/5260	21.51	24.33	24.00
		60/5300	25.89	25.13	24.00
		64/5320	25.79	25.11	24.00
	802.11ax HE20	52/5260	21.39	24.30	24.00
		60/5300	21.30	24.28	24.00
		64/5320	21.71	24.37	24.00
U-NII-2C	802.11a	100/5500	25.65	25.09	24.00
		120/5600	25.84	25.12	24.00
		140/5700	29.80	25.74	24.00
		144/5720	28.99	25.62	24.00
	802.11n HT20	100/5500	22.04	24.43	24.00
		120/5600	21.27	24.28	24.00
		140/5700	27.79	25.44	24.00
		144/5720	29.77	25.74	24.00
	802.11ac VHT20	100/5500	21.51	24.33	24.00
		120/5600	23.55	24.72	24.00
		140/5700	27.32	25.37	24.00
		144/5720	27.70	25.42	24.00
	802.11ax HE20	100/5500	21.42	24.31	24.00
		120/5600	21.28	24.28	24.00
		140/5700	22.61	24.54	24.00
		144/5720	26.52	25.23	24.00

Note: 250mW=24dBm

U-NII-1

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	15.28	19.03	24	PASS
	40/5200	15.40	19.15	24	PASS
	48/5240	15.22	18.97	24	PASS
802.11n HT20	36/5180	15.15	19.03	24	PASS
	40/5200	15.27	19.15	24	PASS
	48/5240	16.07	19.95	24	PASS
802.11ac VHT20	36/5180	15.40	19.25	24	PASS
	40/5200	15.90	19.75	24	PASS
	48/5240	15.63	19.48	24	PASS
802.11ax HE20	36/5180	14.62	19.07	24	PASS
	40/5200	15.11	19.56	24	PASS
	48/5240	14.57	19.02	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	52/5260	15.31	19.06	24	PASS
	60/5300	15.06	18.81	24	PASS
	64/5320	15.52	19.27	24	PASS
802.11n HT20	52/5260	15.15	19.03	24	PASS
	60/5300	15.43	19.31	24	PASS
	64/5320	15.39	19.27	24	PASS
802.11ac VHT20	52/5260	15.70	19.55	24	PASS
	60/5300	15.94	19.79	24	PASS
	64/5320	15.53	19.38	24	PASS
802.11ax HE20	52/5260	14.94	19.39	24	PASS
	60/5300	15.22	19.67	24	PASS
	64/5320	15.47	19.92	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	100/5500	15.77	19.52	24.00	PASS
	120/5600	14.96	18.71	24.00	PASS
	140/5700	15.42	19.17	24.00	PASS
	144/5720	14.60	18.35	24.00	PASS
802.11n HT20	100/5500	15.31	19.19	24.00	PASS
	120/5600	14.59	18.47	24.00	PASS
	140/5700	14.95	18.83	24.00	PASS
	144/5720	13.81	17.69	24.00	PASS
802.11ac VHT20	100/5500	15.75	19.60	24.00	PASS
	120/5600	14.92	18.77	24.00	PASS
	140/5700	14.93	18.78	24.00	PASS
	144/5720	13.60	17.45	24.00	PASS
802.11ax HE20	100/5500	15.10	19.55	24.00	PASS
	120/5600	14.49	18.94	24.00	PASS
	140/5700	14.45	18.90	24.00	PASS
	144/5720	12.67	17.12	24.00	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-3

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	144/5720	5.75	9.50	30	PASS
	149/5745	14.01	17.76	30	PASS
	157/5785	13.31	17.06	30	PASS
	165/5825	13.50	17.25	30	PASS
802.11n HT20	144/5720	6.82	10.70	30	PASS
	149/5745	13.31	17.19	30	PASS
	157/5785	13.92	17.80	30	PASS
	165/5825	13.52	17.40	30	PASS
802.11ac VHT20	144/5720	5.86	9.71	30	PASS
	149/5745	13.81	17.66	30	PASS
	157/5785	13.62	17.47	30	PASS
	165/5825	13.35	17.20	30	PASS
802.11ax HE20	144/5720	6.50	10.95	30	PASS
	149/5745	12.84	17.29	30	PASS
	157/5785	13.23	17.68	30	PASS
	165/5825	12.88	17.33	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

6.3. Frequency Stability

Voltage (V)	Temperature (°C)	U-NII-1 Test Results			
		5200MHz			
		1min	2min	5min	10min
3.6	-30	5199.990226	5199.985834	5199.981184	5199.974588
3.6	-20	5199.995317	5199.979152	5199.981122	5199.965492
3.6	-10	5200.004175	5199.972008	5199.975317	5199.962491
3.6	0	5199.987185	5199.970745	5199.973846	5199.956346
3.6	10	5199.985460	5199.969472	5199.969108	5199.949553
3.6	20	5199.984725	5199.964247	5199.962591	5199.941050
3.6	30	5199.979007	5199.957460	5199.958322	5199.931303
3.6	40	5199.977601	5199.951483	5199.949046	5199.928197
3.6	50	5199.975903	5199.947257	5199.944999	5199.921158
2.75	20	5199.971407	5199.941918	5199.943637	5199.912290
4.2	20	5199.968809	5199.940457	5199.938737	5199.908301
Max. ΔMHz		-0.031191	-0.059543	-0.061263	-0.091699
PPM		-5.998269	-11.450577	-11.781346	-17.634423

Voltage (V)	Temperature (°C)	U-NII-2A Test Results			
		5300MHz			
		1min	2min	5min	10min
3.6	-30	5299.992852	5299.983252	5299.973977	5299.967634
3.6	-20	5299.991934	5299.974974	5299.971918	5299.962799
3.6	-10	5299.990404	5299.966109	5299.965437	5299.961521
3.6	0	5299.984876	5299.965293	5299.966521	5299.955746
3.6	10	5299.981014	5299.965223	5299.960343	5299.950359
3.6	20	5299.973098	5299.964404	5299.950636	5299.944807
3.6	30	5299.967423	5299.955301	5299.947246	5299.935902
3.6	40	5299.960673	5299.950759	5299.938762	5299.930561
3.6	50	5299.952014	5299.948315	5299.933898	5299.924887
2.75	20	5299.948688	5299.946060	5299.932479	5299.922154
4.2	20	5299.943910	5299.938911	5299.928246	5299.918252
Max. ΔMHz		-0.056090	-0.061089	-0.071754	-0.081748
PPM		-10.583019	-11.526226	-13.538491	-15.424151

Voltage (V)	Temperature (°C)	U-NII-2C Test Results			
		5580MHz			
		1min	2min	5min	10min
3.6	-30	5580.007946	5580.004836	5579.995401	5579.993538
3.6	-20	5580.007830	5579.994856	5579.990699	5579.987543
3.6	-10	5579.999835	5579.994062	5579.986795	5579.985390
3.6	0	5579.998290	5579.988622	5579.984110	5579.980158
3.6	10	5579.989013	5579.986412	5579.975745	5579.973778
3.6	20	5579.984863	5579.985577	5579.973649	5579.965420
3.6	30	5579.978336	5579.982021	5579.972126	5579.959446
3.6	40	5579.972761	5579.977235	5579.964199	5579.955829
3.6	50	5579.966108	5579.973017	5579.956794	5579.949373
2.75	20	5579.961626	5579.964745	5579.950208	5579.949304
4.2	20	5579.958957	5579.963716	5579.944377	5579.947212
Max. ΔMHz		-0.041043	-0.036284	-0.055623	-0.052788
PPM		-7.355376	-6.502509	-9.968280	-9.460215

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
3.6	-30	5785.002098	5784.994112	5784.990309	5784.983121
3.6	-20	5785.000501	5784.990240	5784.989848	5784.974187
3.6	-10	5784.994587	5784.985571	5784.980333	5784.973595
3.6	0	5784.998885	5784.982466	5784.989748	5784.966035
3.6	10	5784.992907	5784.982117	5784.983796	5784.958255
3.6	20	5784.990602	5784.981529	5784.979634	5784.952397
3.6	30	5784.982922	5784.980107	5784.971225	5784.947579
3.6	40	5784.975917	5784.975828	5784.961783	5784.939844
3.6	50	5784.966743	5784.970873	5784.961674	5784.939728
2.75	20	5784.958017	5784.968488	5784.961358	5784.930664
4.2	20	5784.955564	5784.967575	5784.954919	5784.927101
Max. ΔMHz		-0.044436	-0.032425	-0.045081	-0.072899
PPM		-7.681245	-5.605013	-7.792740	-12.601383

6.4. Power Spectral Density

U-NII-1

Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	6.67	10.42	11	PASS
	40/5200	7.09	10.84	11	PASS
	48/5240	5.61	9.36	11	PASS
802.11n HT20	36/5180	6.45	10.33	11	PASS
	40/5200	6.88	10.76	11	PASS
	48/5240	6.27	10.15	11	PASS
802.11ac VHT20	36/5180	6.94	10.79	11	PASS
	40/5200	6.75	10.60	11	PASS
	48/5240	6.46	10.31	11	PASS
802.11ax HE20	36/5180	6.00	10.45	11	PASS
	40/5200	4.65	9.10	11	PASS
	48/5240	5.31	9.76	11	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-2A

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	52/5260	6.98	10.73	11	PASS
	60/5300	6.66	10.41	11	PASS
	64/5320	6.29	10.04	11	PASS
802.11n HT20	52/5260	6.19	10.07	11	PASS
	60/5300	6.62	10.50	11	PASS
	64/5320	5.94	9.82	11	PASS
802.11ac VHT20	52/5260	6.70	10.55	11	PASS
	60/5300	7.13	10.98	11	PASS
	64/5320	7.12	10.97	11	PASS
802.11ax HE20	52/5260	6.03	10.48	11	PASS
	60/5300	6.02	10.47	11	PASS
	64/5320	6.17	10.62	11	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-2C

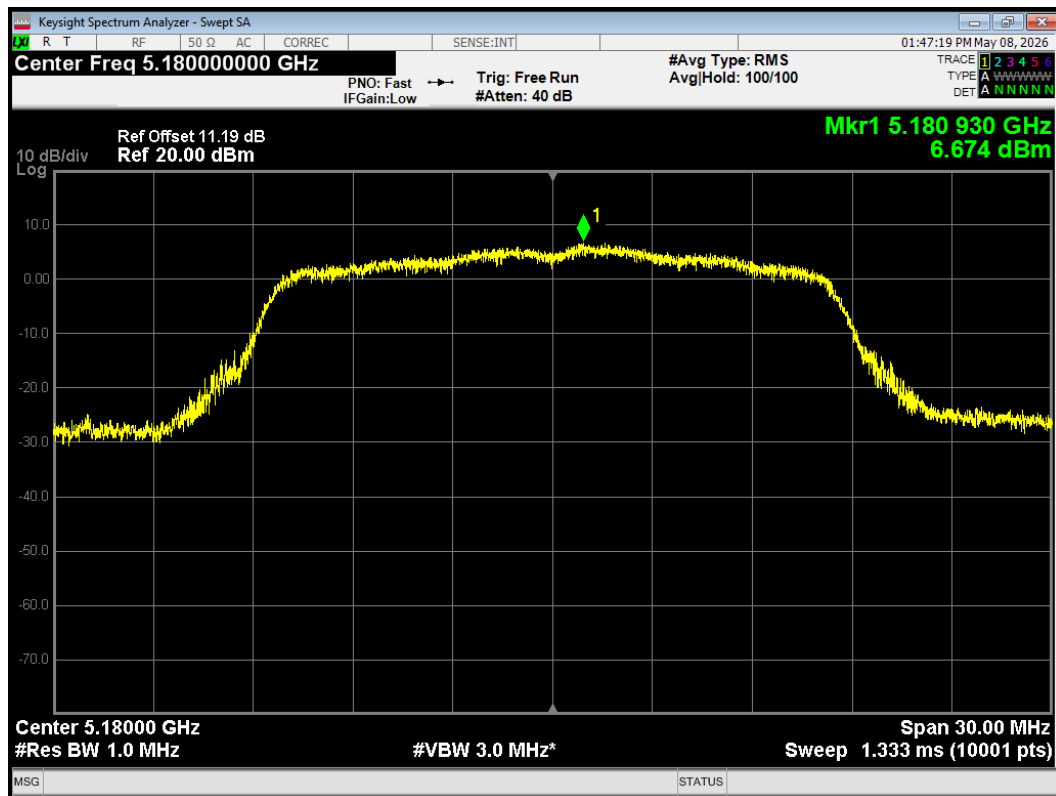
Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	6.77	10.52	11	PASS
	120/5600	6.87	10.62	11	PASS
	140/5700	6.84	10.59	11	PASS
	144/5720	5.71	9.46	11	PASS
802.11n HT20	100/5500	6.52	10.40	11	PASS
	120/5600	6.64	10.52	11	PASS
	140/5700	5.71	9.59	11	PASS
	144/5720	5.66	9.54	11	PASS
802.11ac VHT20	100/5500	6.90	10.75	11	PASS
	120/5600	5.53	9.38	11	PASS
	140/5700	5.67	9.52	11	PASS
	144/5720	5.69	9.54	11	PASS
802.11ax HE20	100/5500	5.39	9.84	11	PASS
	120/5600	4.71	9.16	11	PASS
	140/5700	3.85	8.30	11	PASS
	144/5720	3.65	8.10	11	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

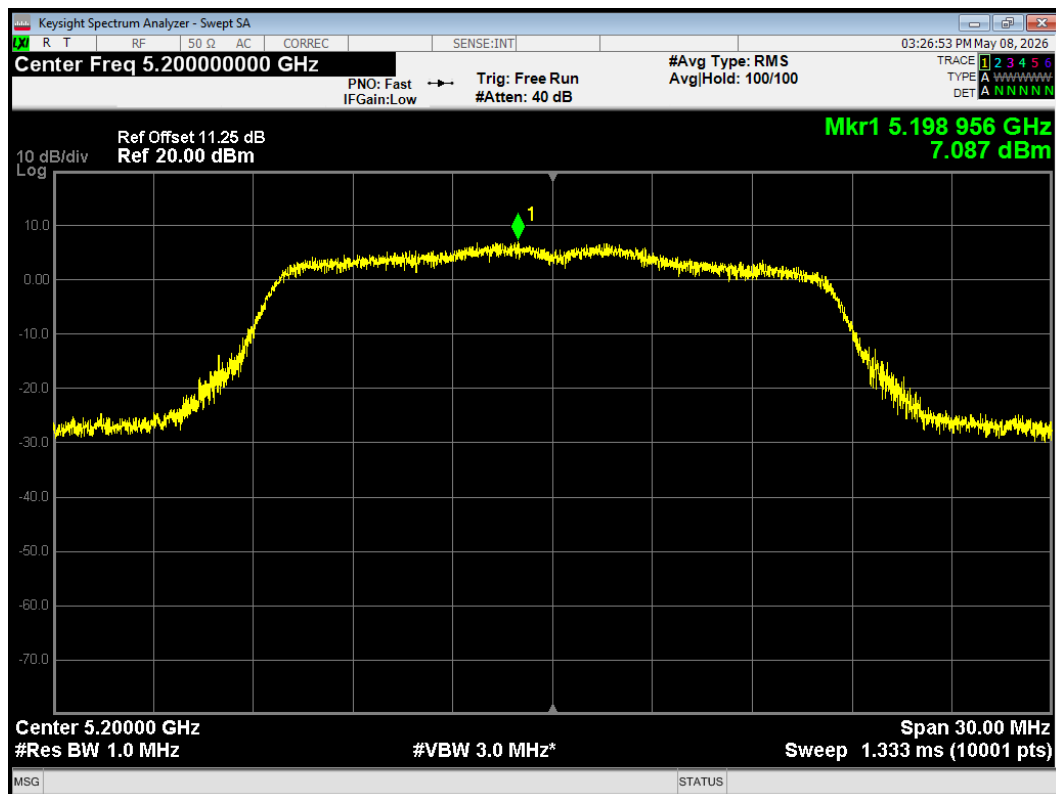
U-NII-3

Mode	Channel /Frequency (MHz)	Read Value (dBm/510kHz)	Power Spectral Density (dBm/510kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	0.33	4.08	30	PASS
	149/5745	1.84	5.59	30	PASS
	157/5785	1.81	5.56	30	PASS
	165/5825	1.78	5.53	30	PASS
802.11n HT20	144/5720	-0.60	3.28	30	PASS
	149/5745	1.97	5.85	30	PASS
	157/5785	1.38	5.26	30	PASS
	165/5825	0.96	4.84	30	PASS
802.11ac VHT20	144/5720	0.18	4.03	30	PASS
	149/5745	0.80	4.65	30	PASS
	157/5785	1.61	5.46	30	PASS
	165/5825	2.15	6.00	30	PASS
802.11ax HE20	144/5720	-0.58	3.87	30	PASS
	149/5745	2.01	6.46	30	PASS
	157/5785	0.32	4.77	30	PASS
	165/5825	-0.09	4.36	30	PASS
Note: PSD=Read Value+Duty cycle correction factor					

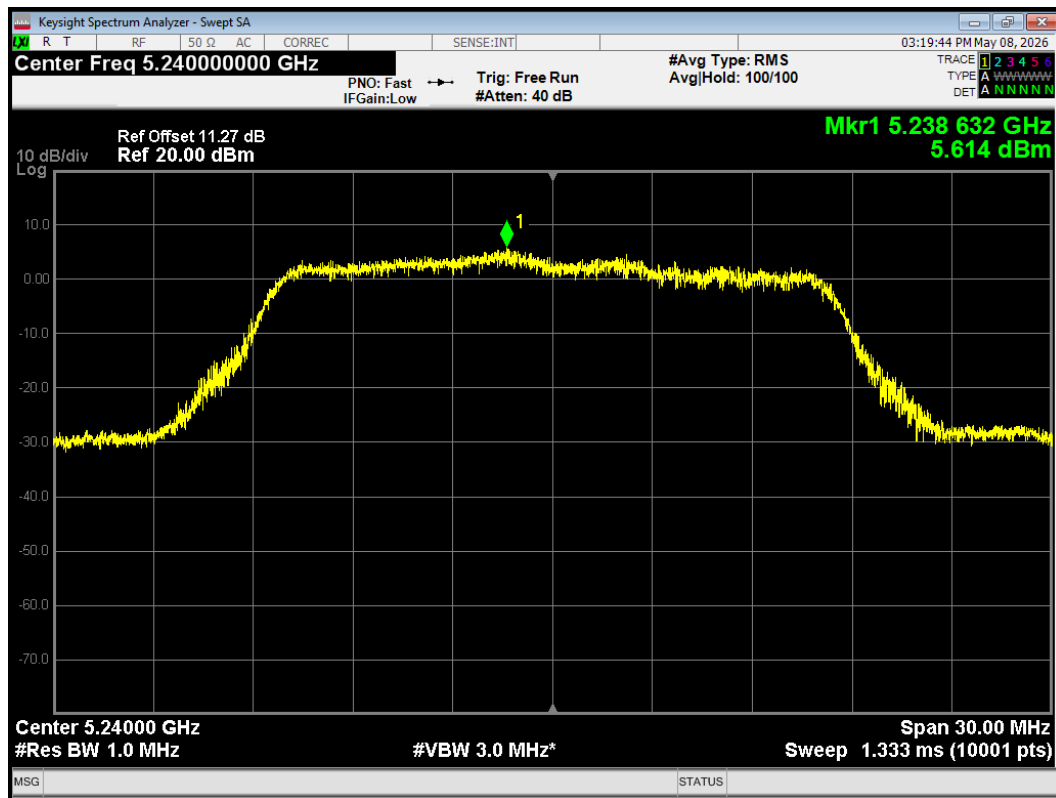
PSD 802.11a 5180MHz



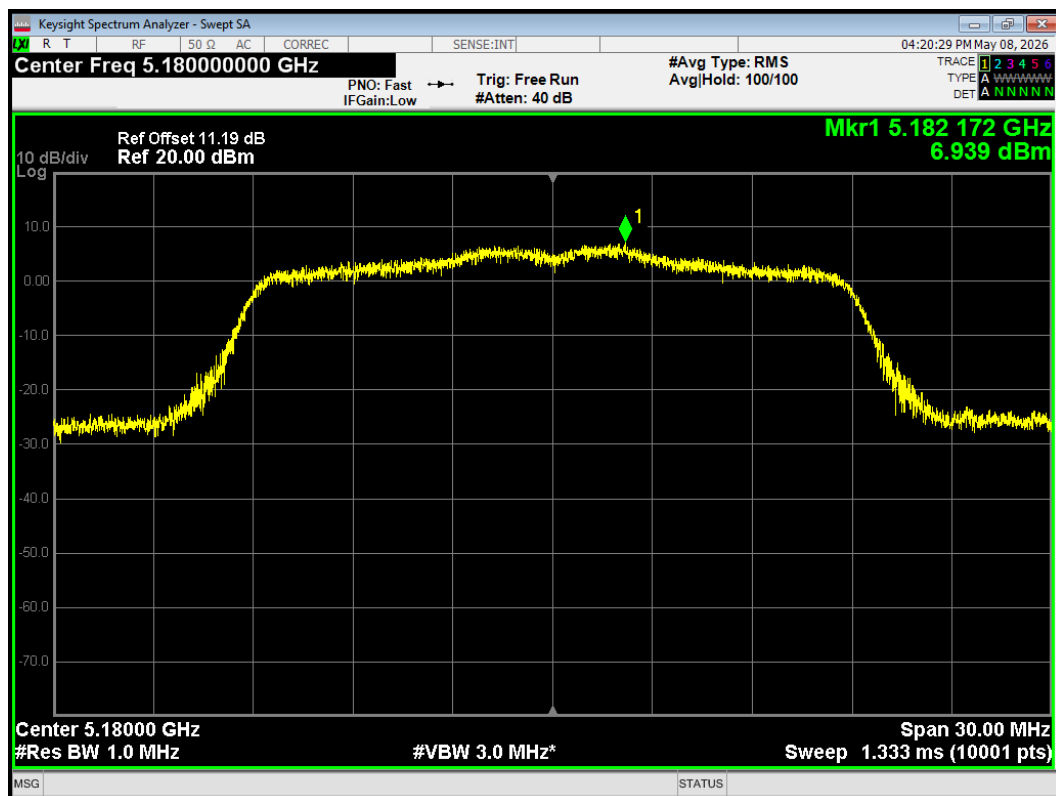
PSD 802.11a 5200MHz



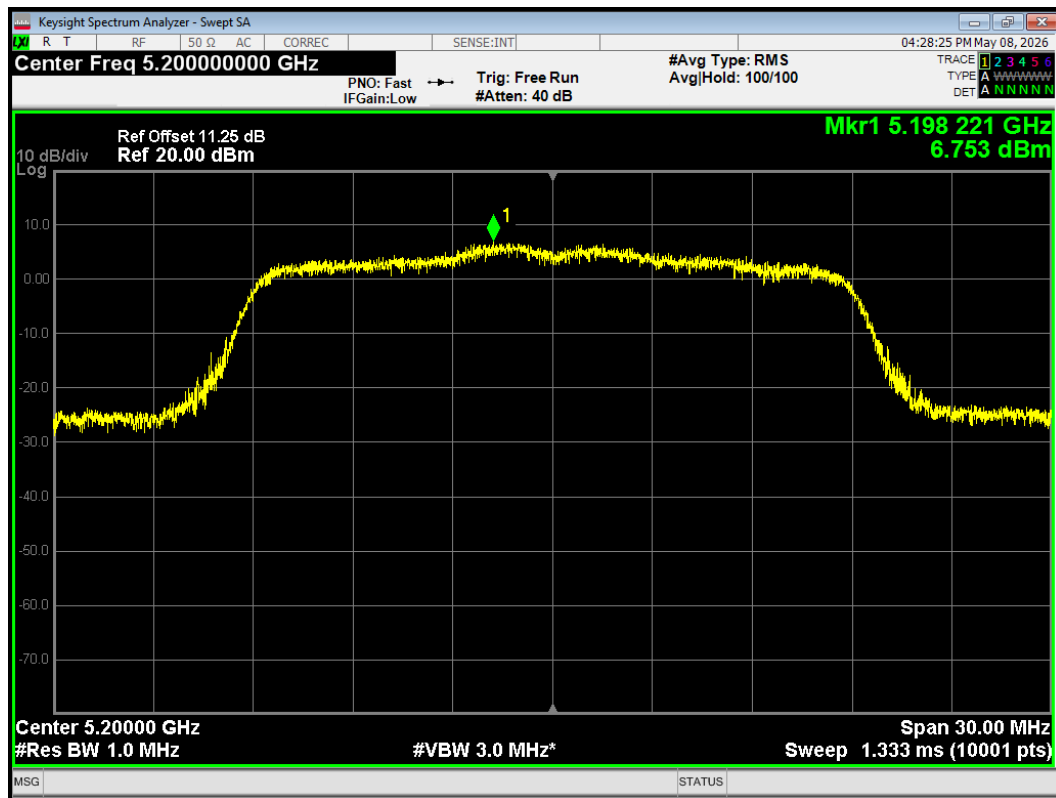
PSD 802.11a 5240MHz



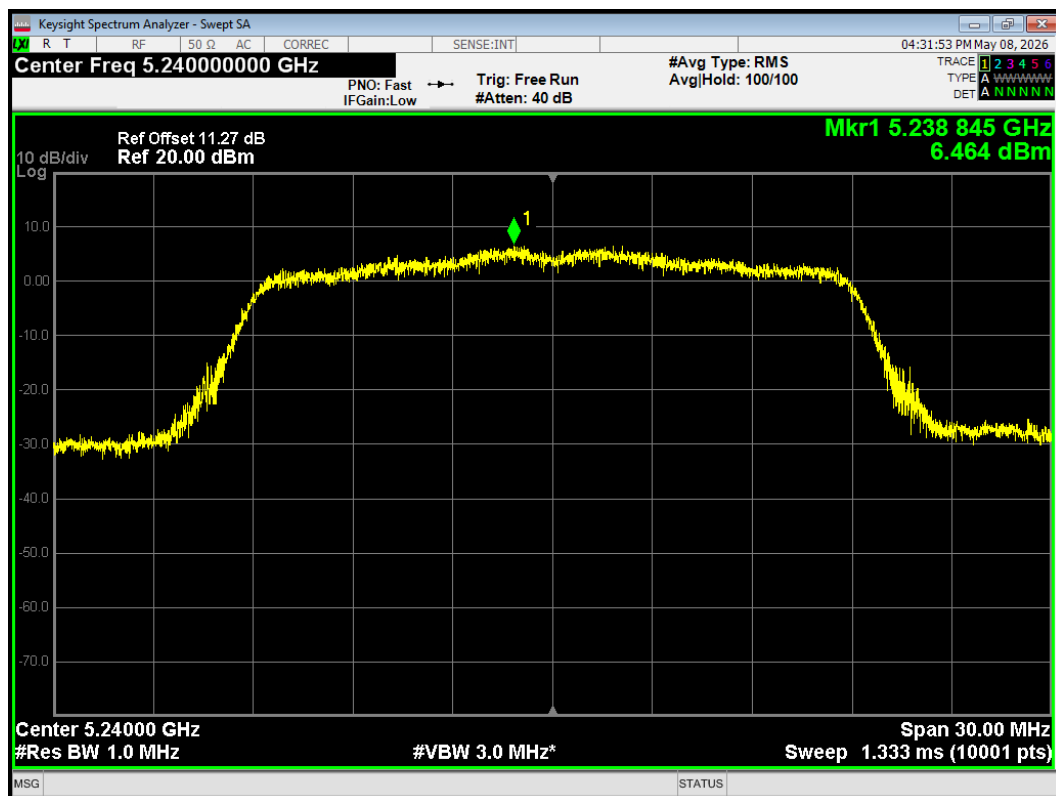
PSD 802.11ac(VHT20) 5180MHz



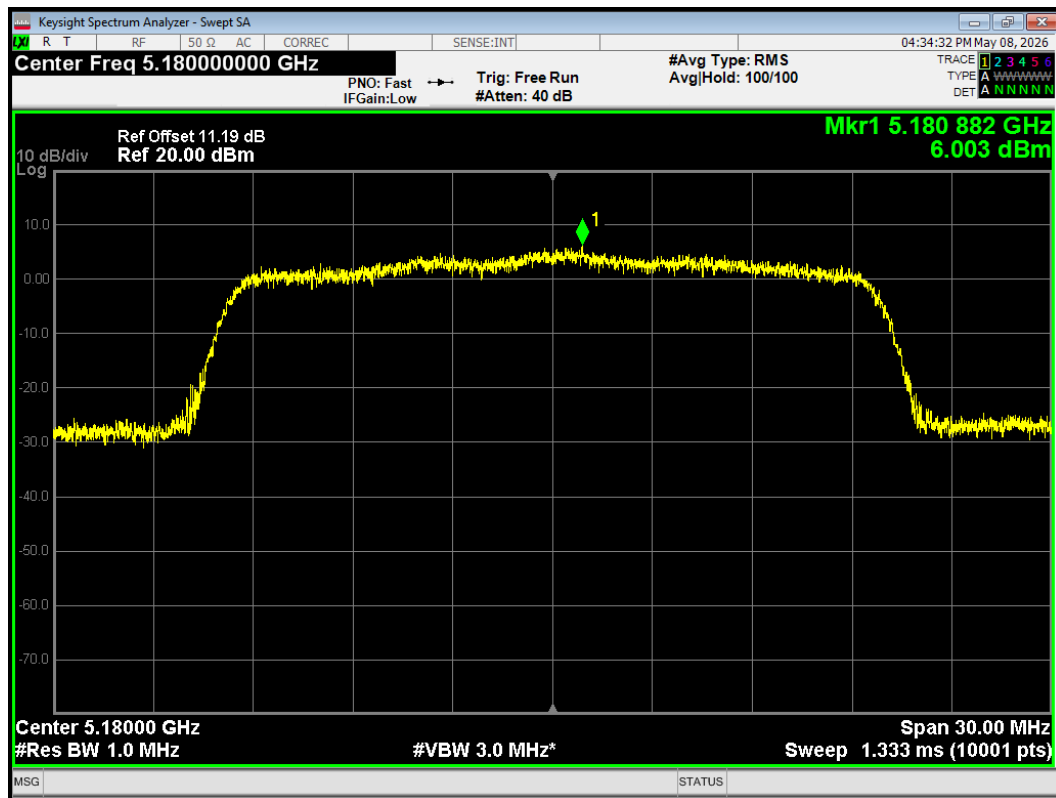
PSD 802.11ac(VHT20) 5200MHz



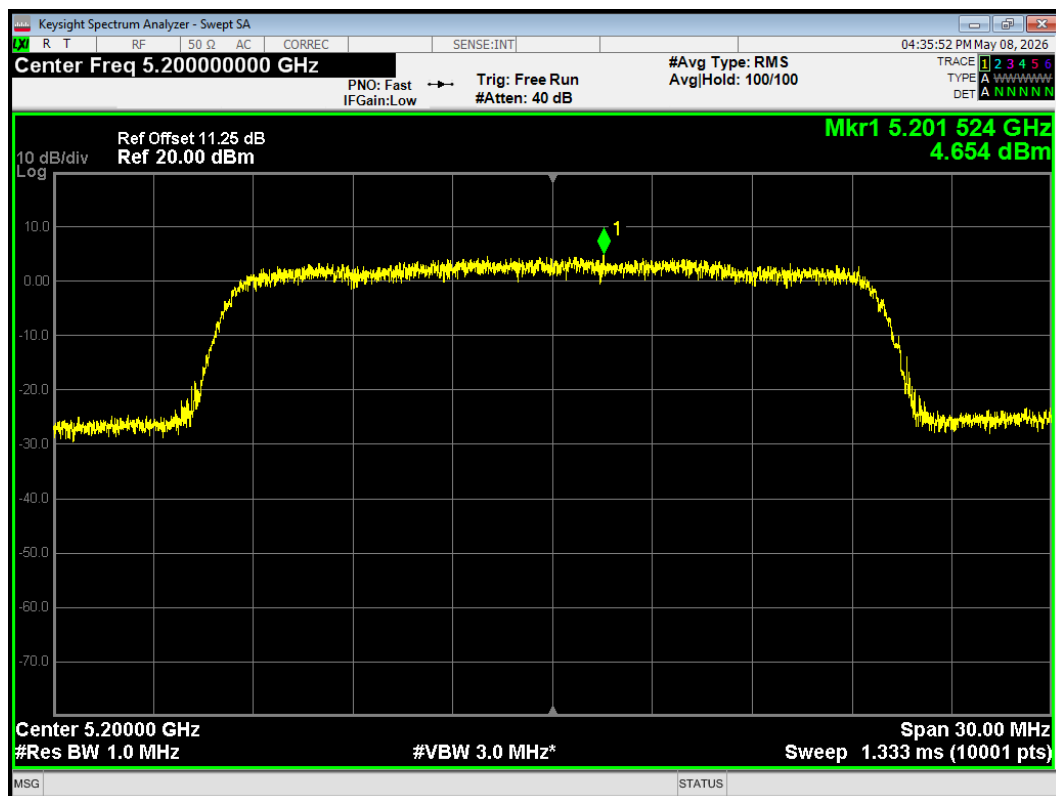
PSD 802.11ac(VHT20) 5240MHz



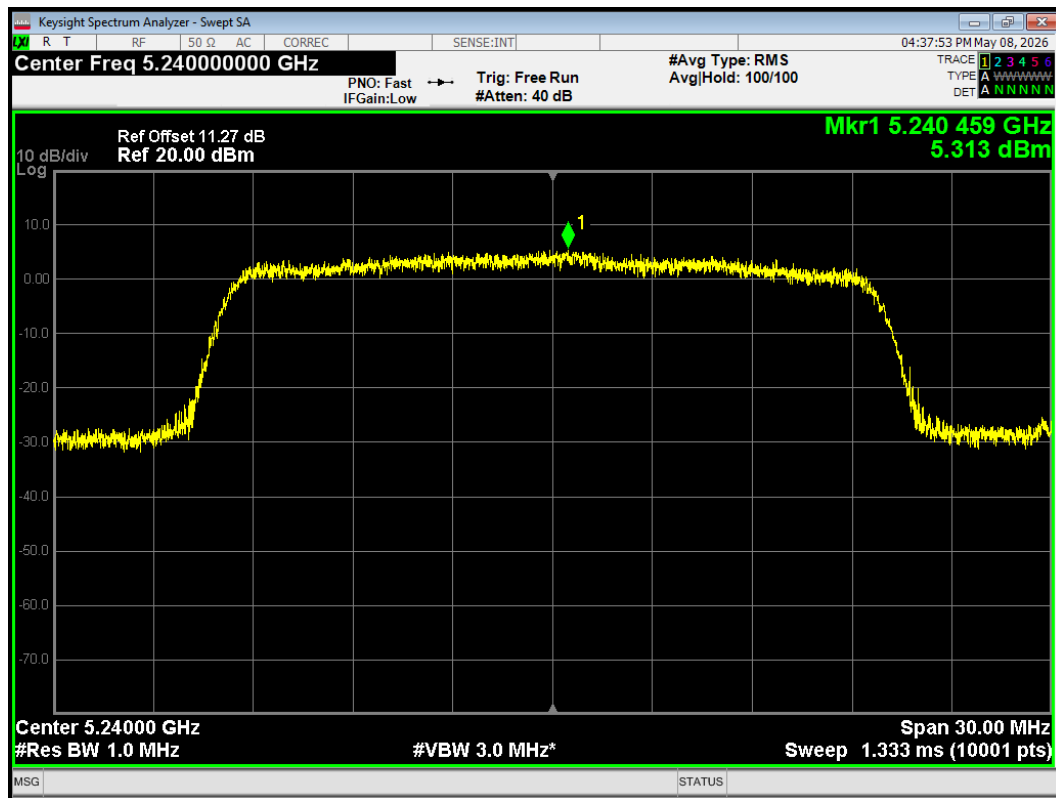
PSD 802.11ax(HE20) 5180MHz



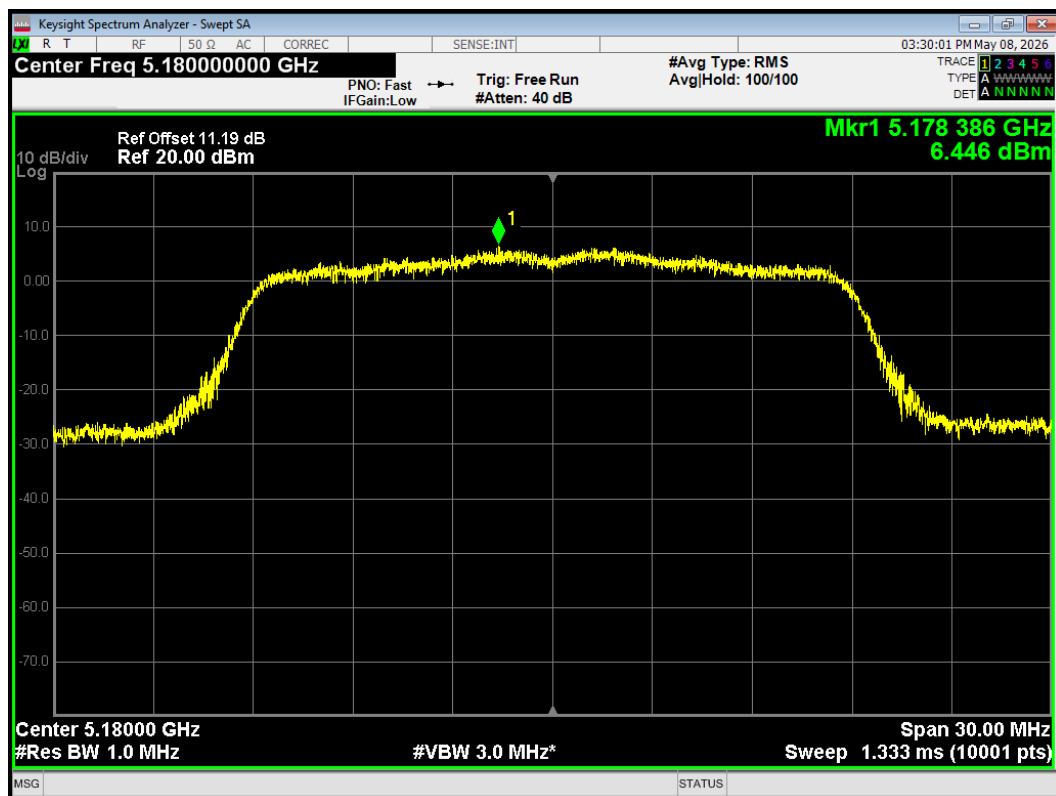
PSD 802.11ax(HE20) 5200MHz



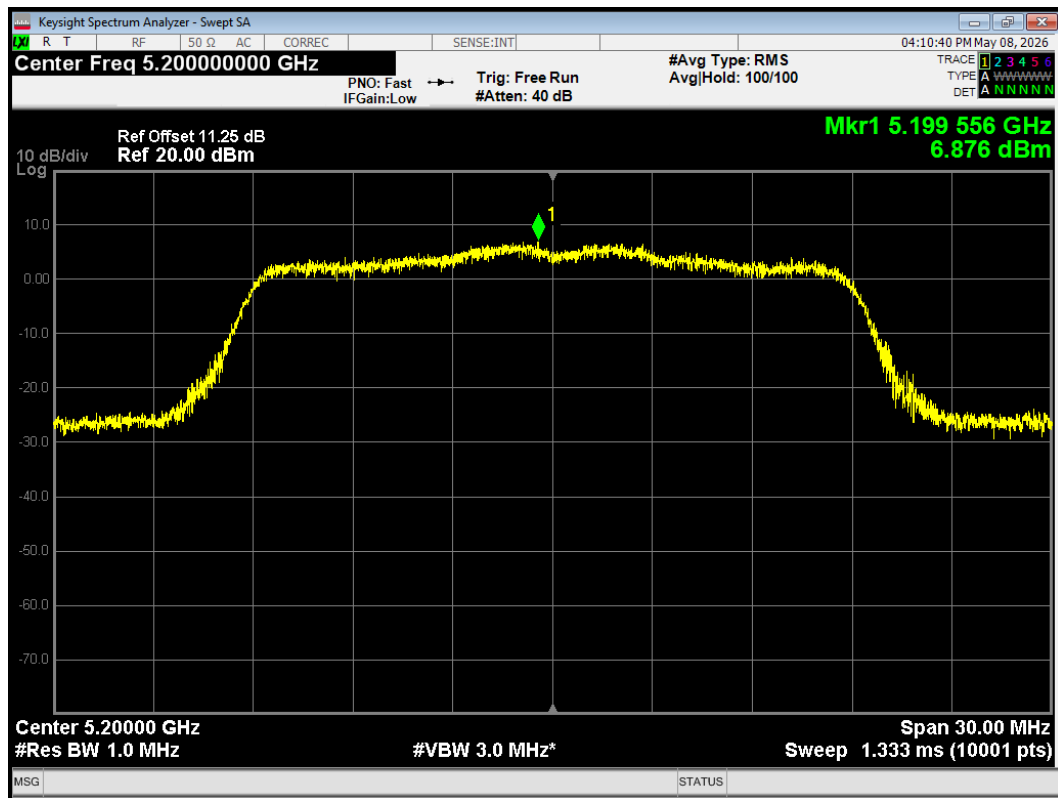
PSD 802.11ax(HE20) 5240MHz



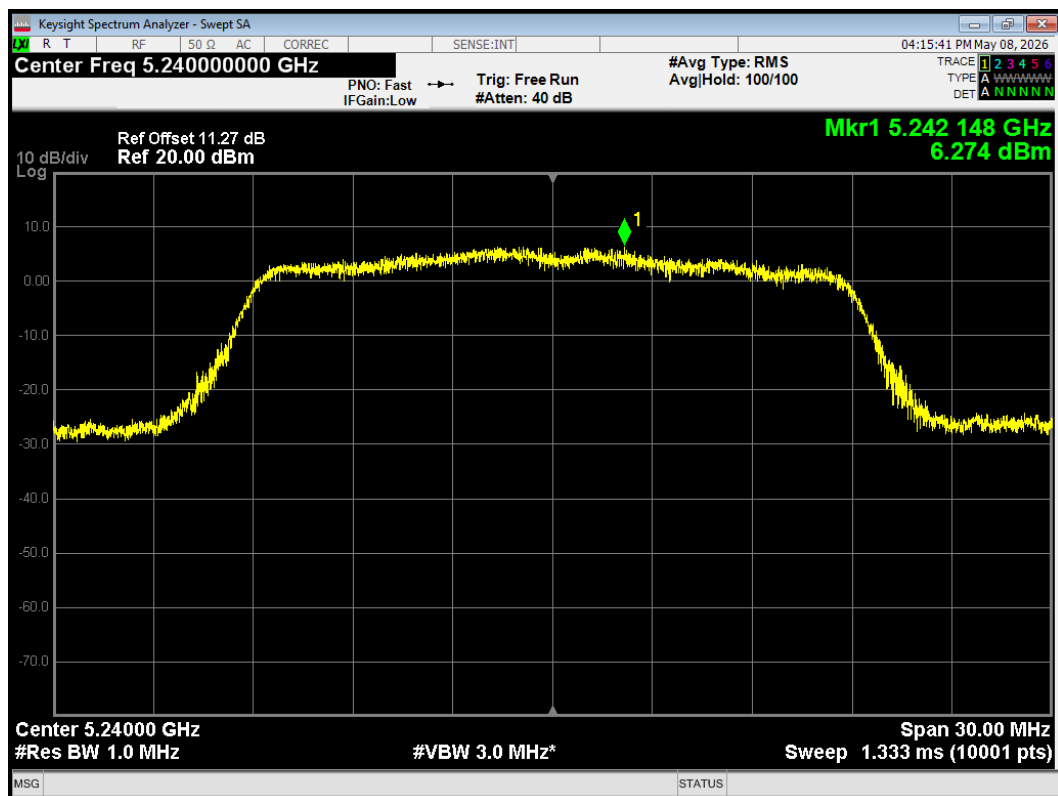
PSD 802.11n(HT20) 5180MHz



PSD 802.11n(HT20) 5200MHz

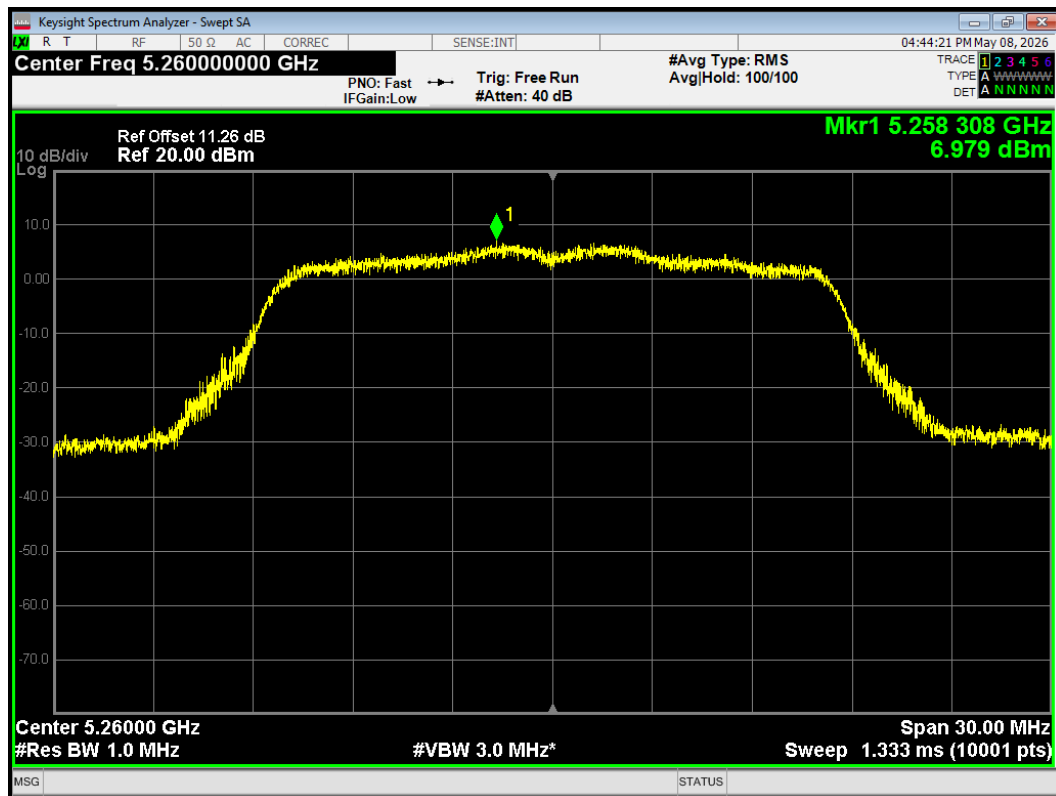


PSD 802.11n(HT20) 5240MHz

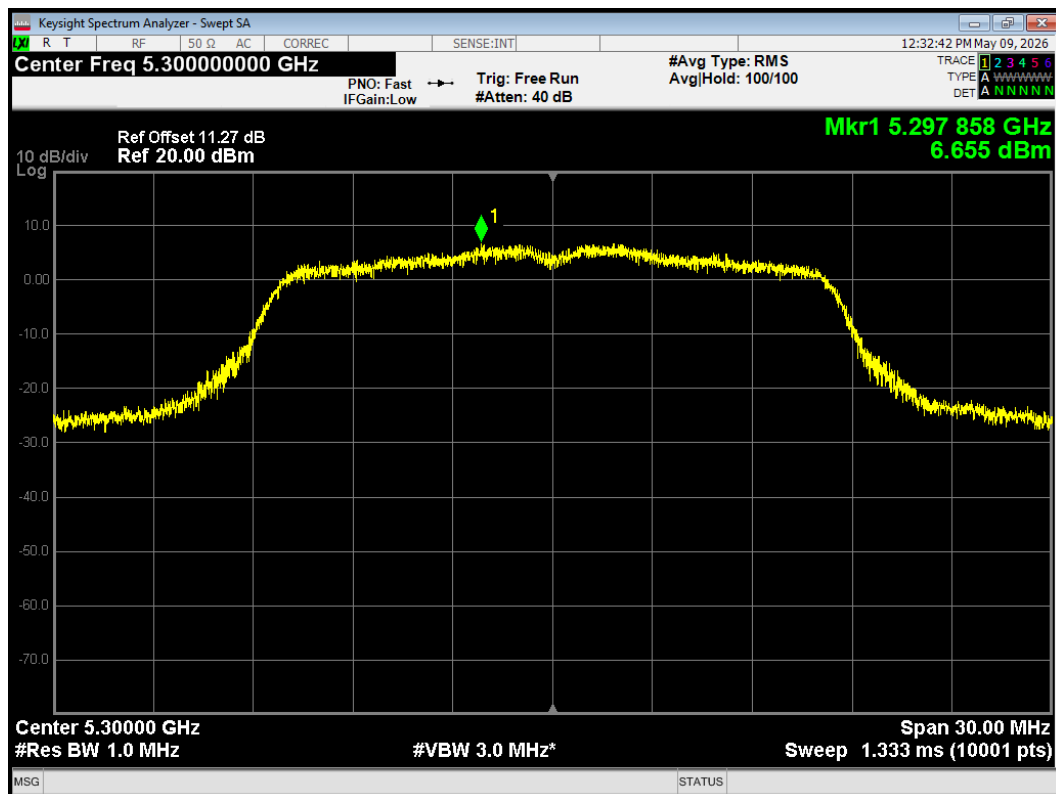


U-NII-2A

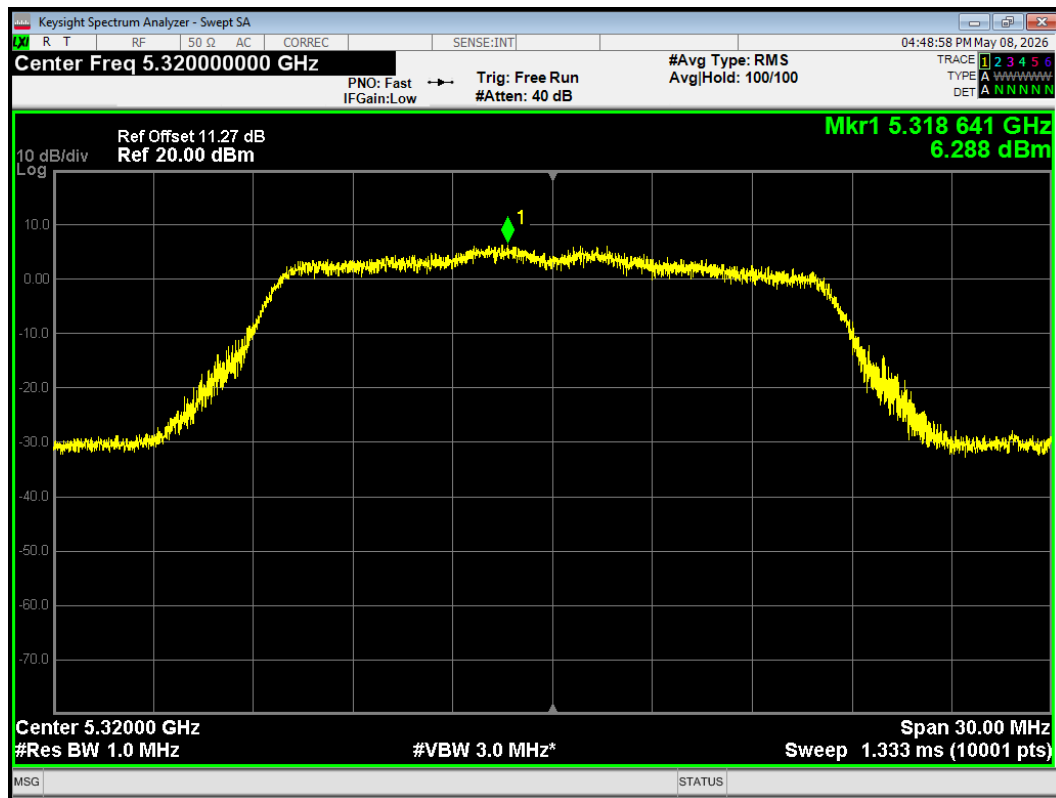
PSD 802.11a 5260MHz



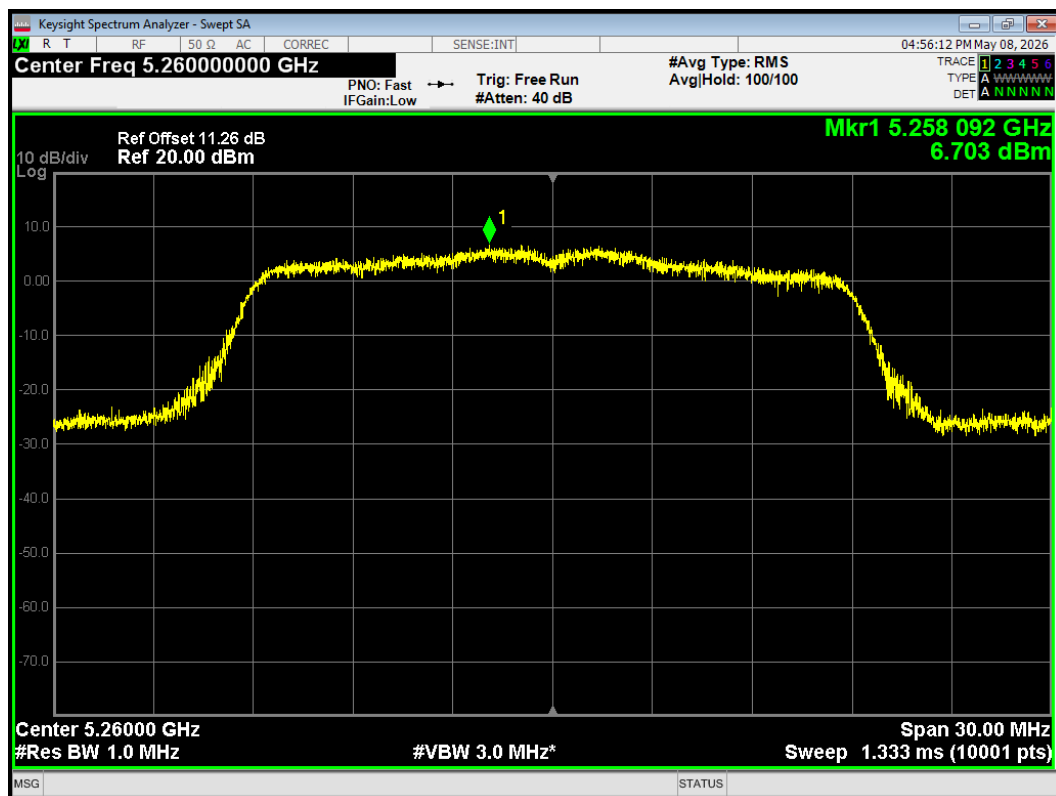
PSD 802.11a 5300MHz



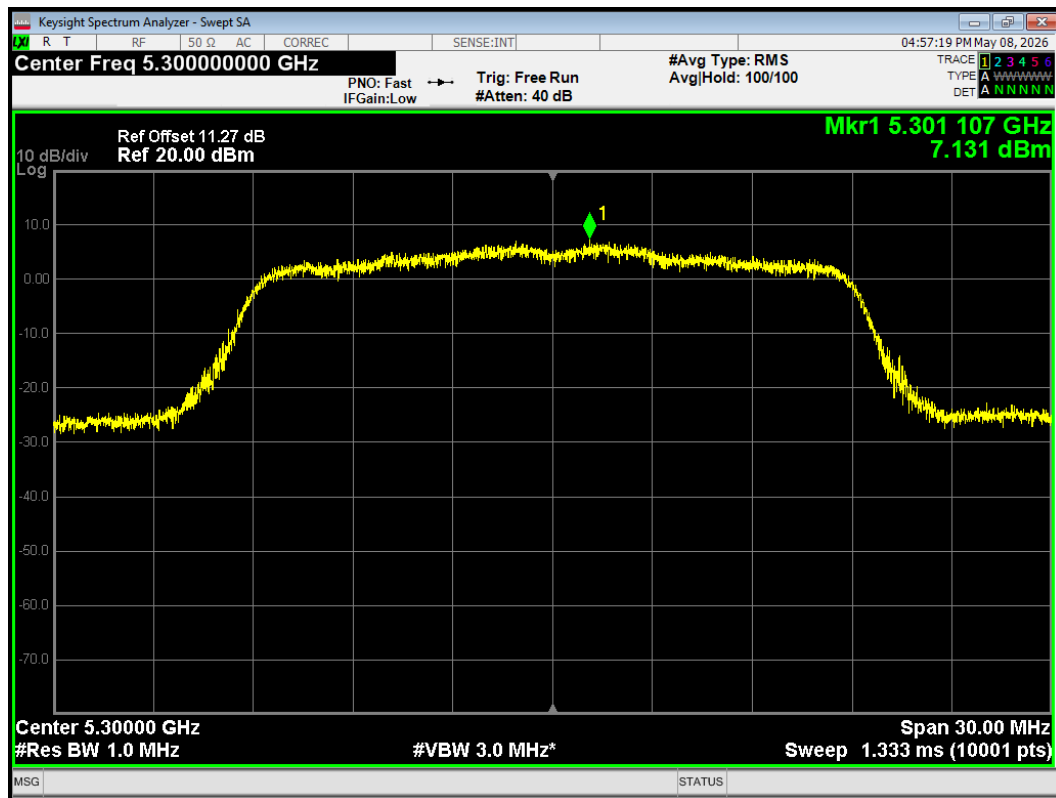
PSD 802.11a 5320MHz



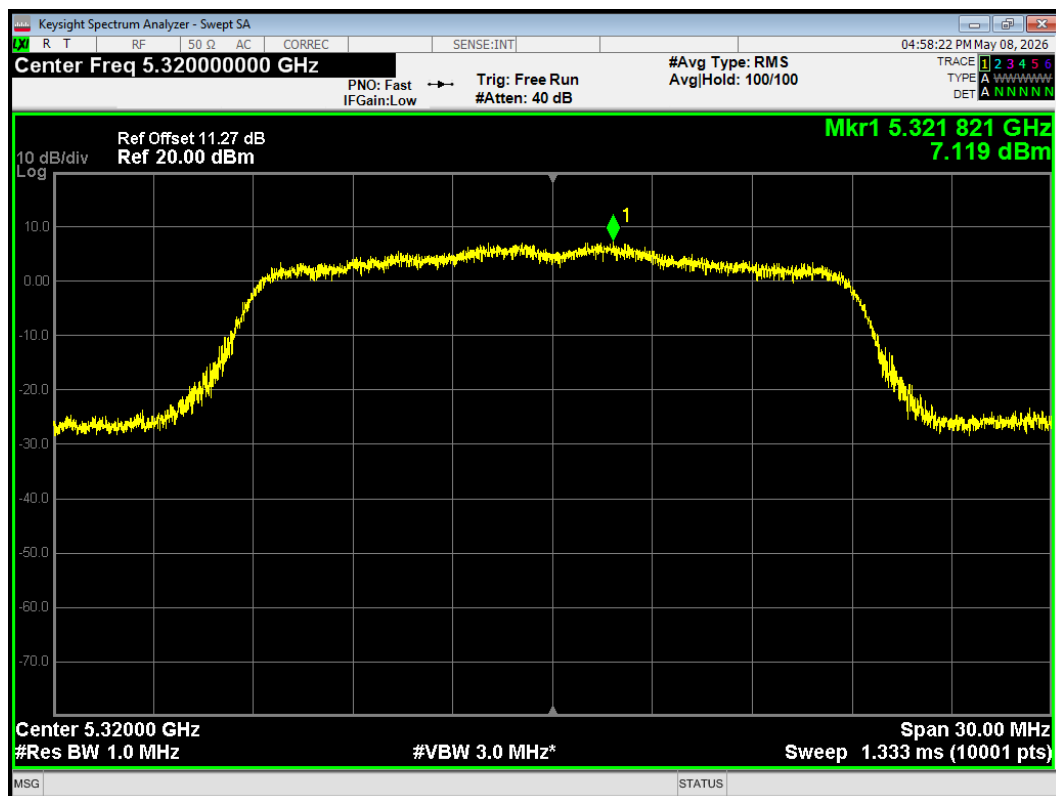
PSD 802.11ac(VHT20) 5260MHz



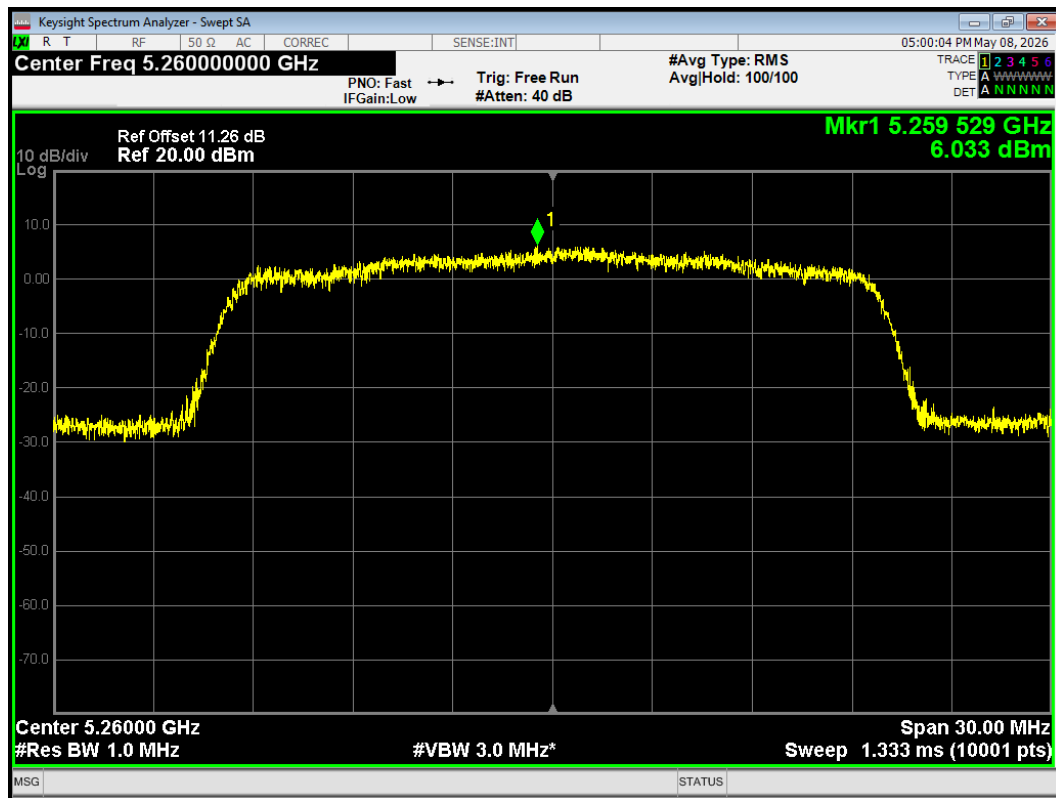
PSD 802.11ac(VHT20) 5300MHz



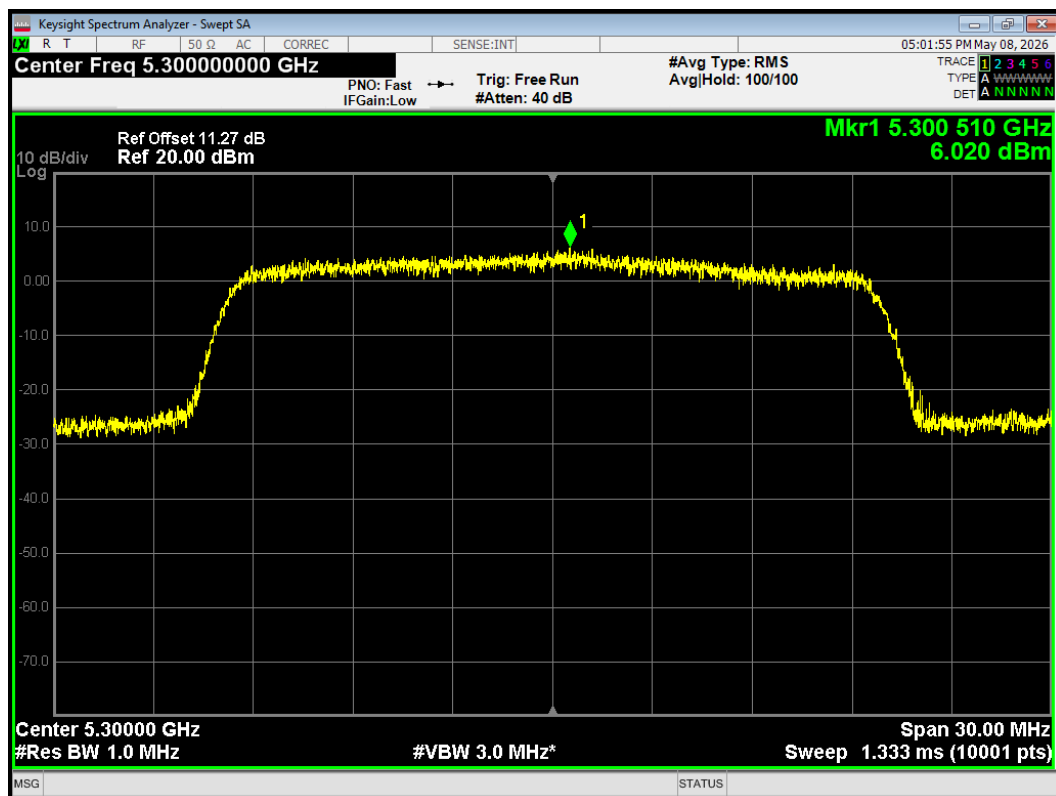
PSD 802.11ac(VHT20) 5320MHz



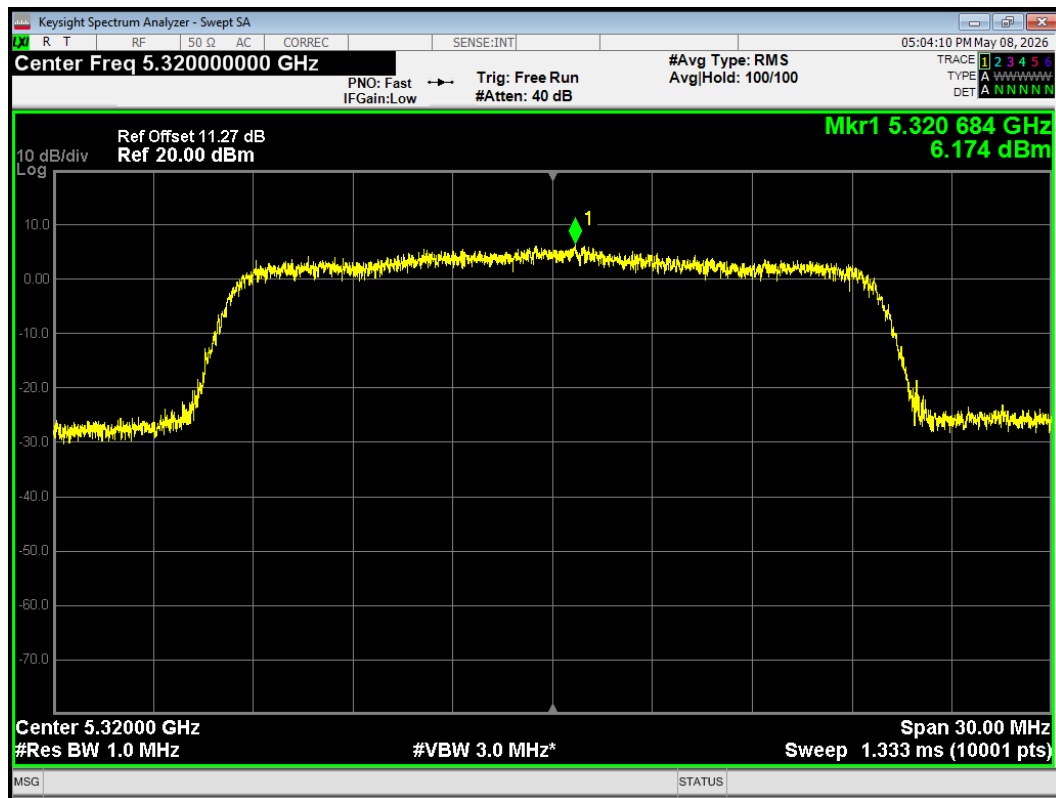
PSD 802.11ax(HE20) 5260MHz



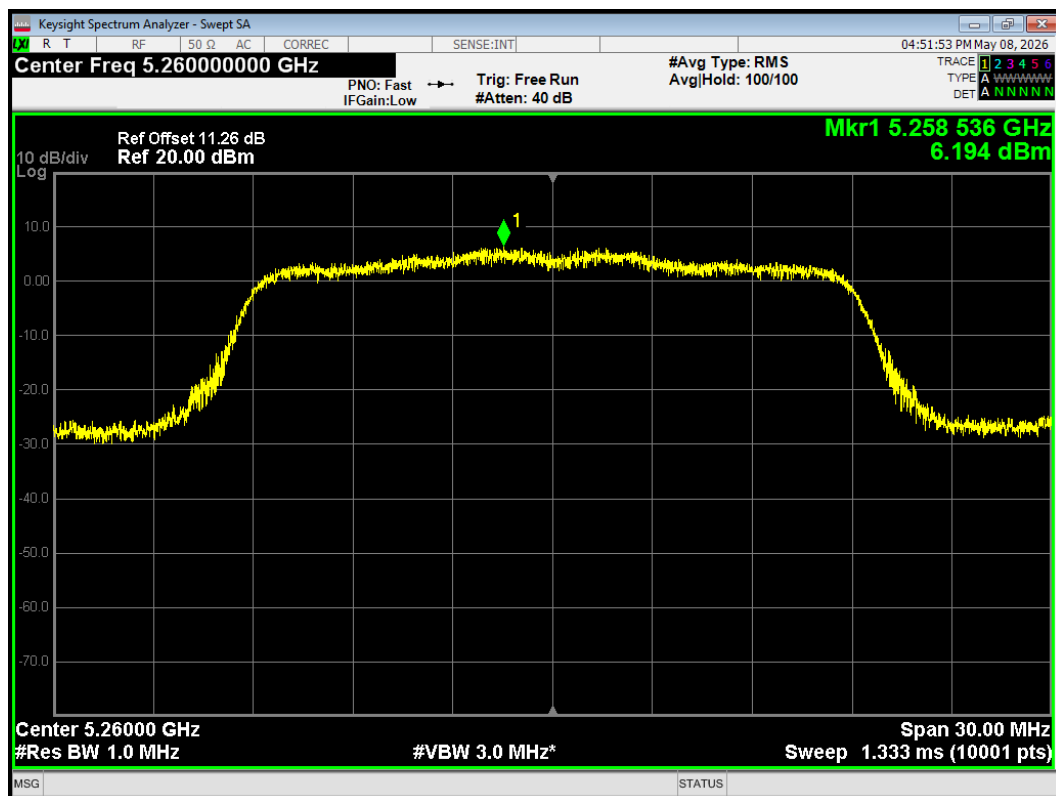
PSD 802.11ax(HE20) 5300MHz



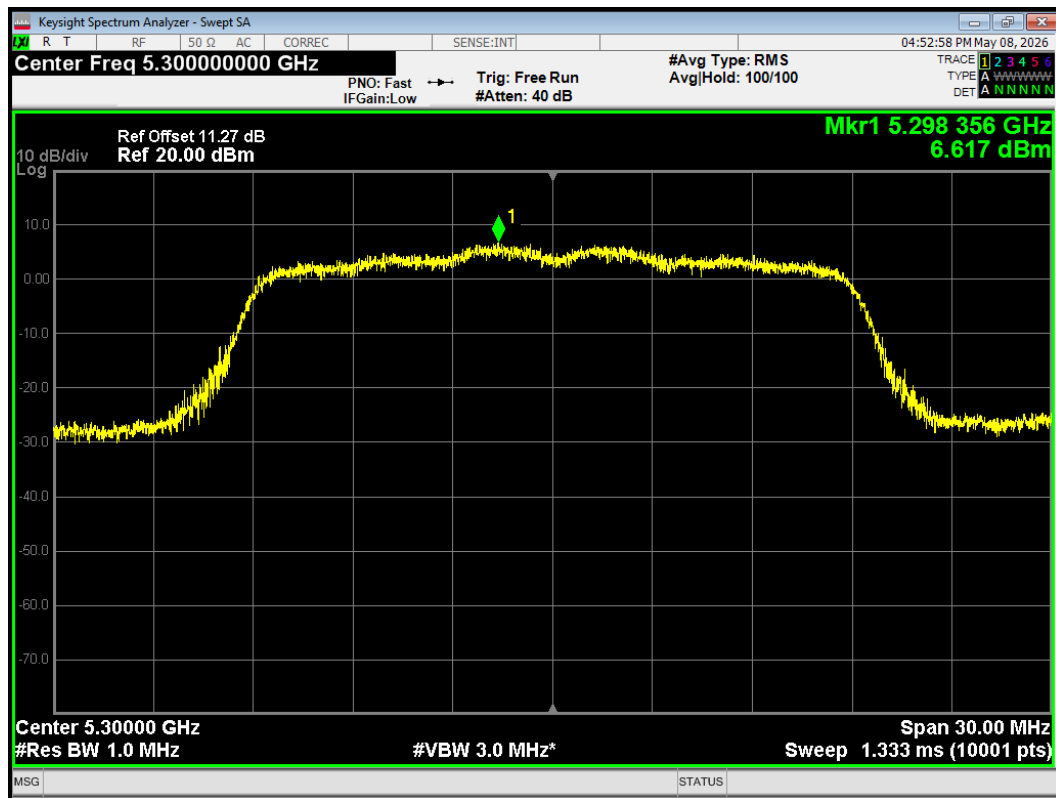
PSD 802.11ax(HE20) 5320MHz



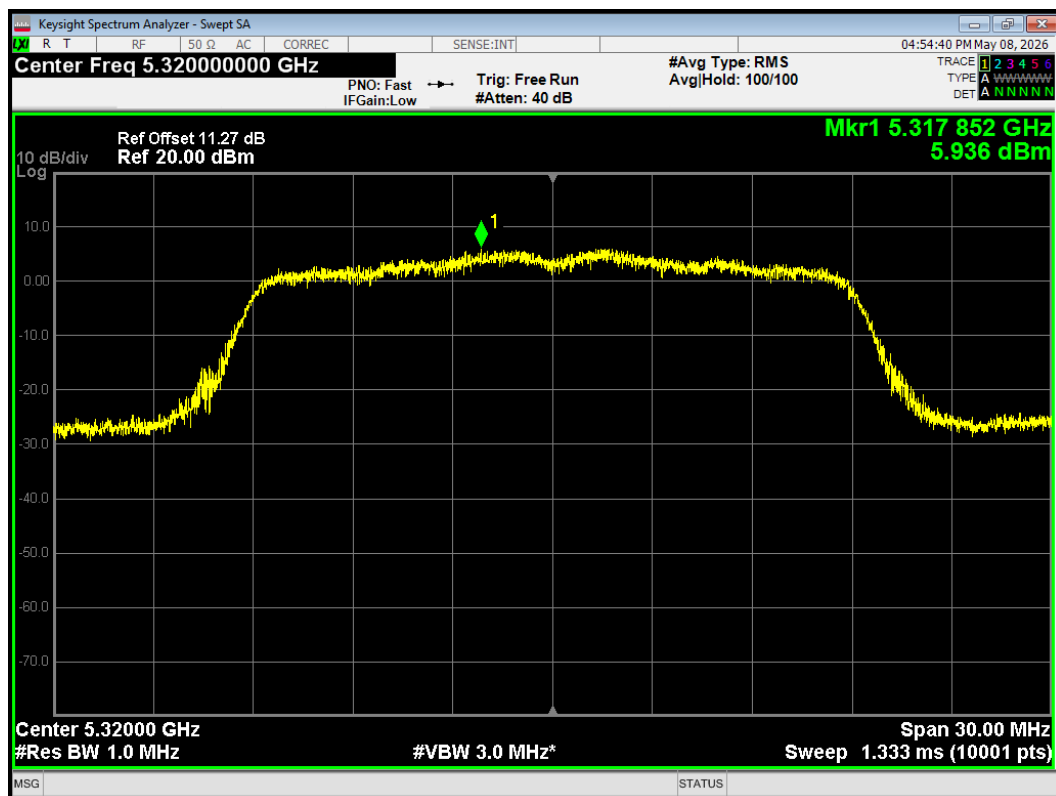
PSD 802.11n(HT20) 5260MHz



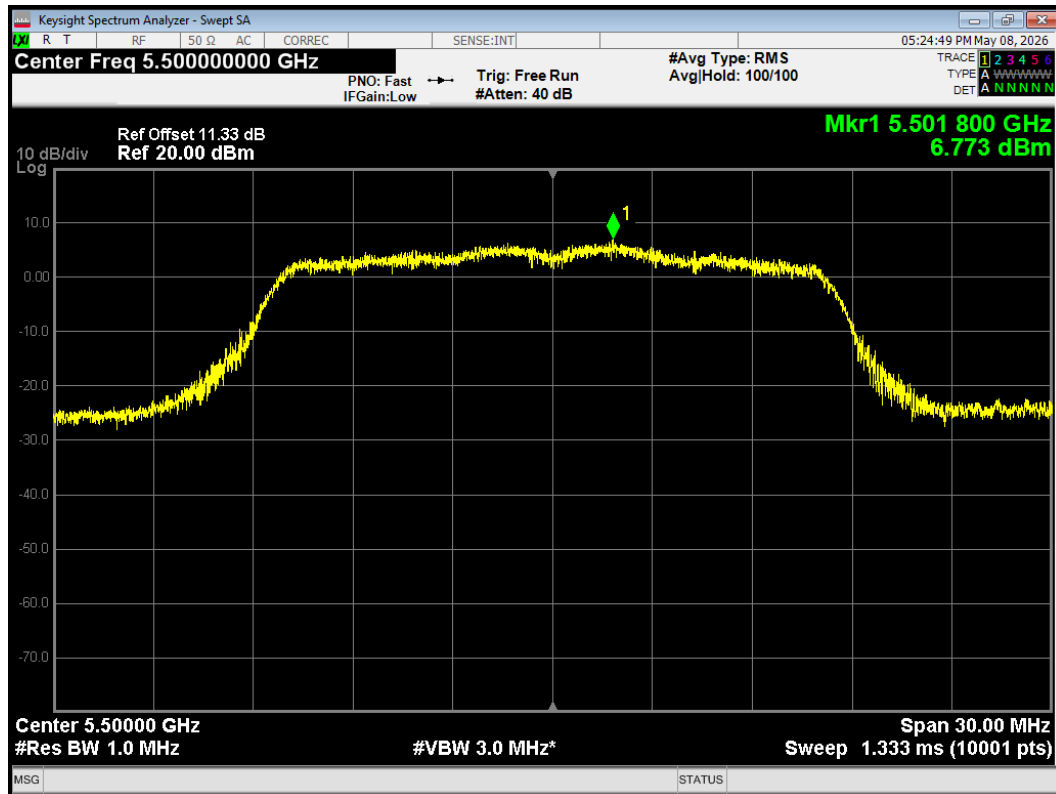
PSD 802.11n(HT20) 5300MHz



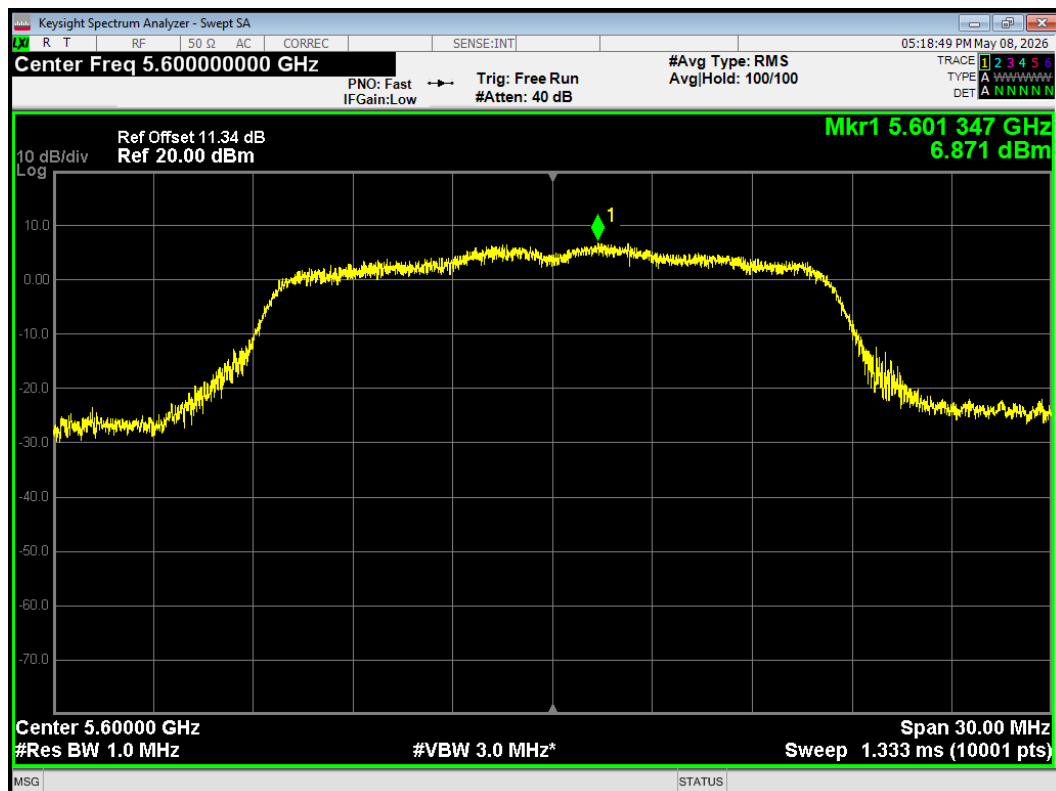
PSD 802.11n(HT20) 5320MHz



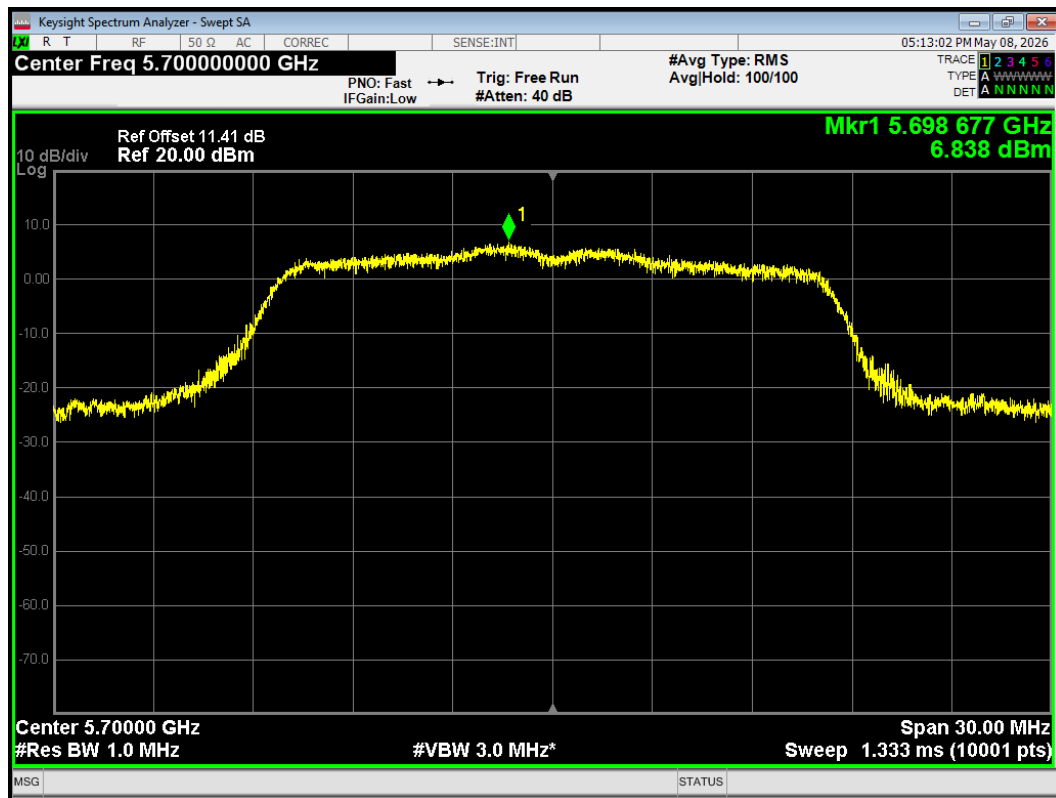
PSD 802.11a 5500MHz



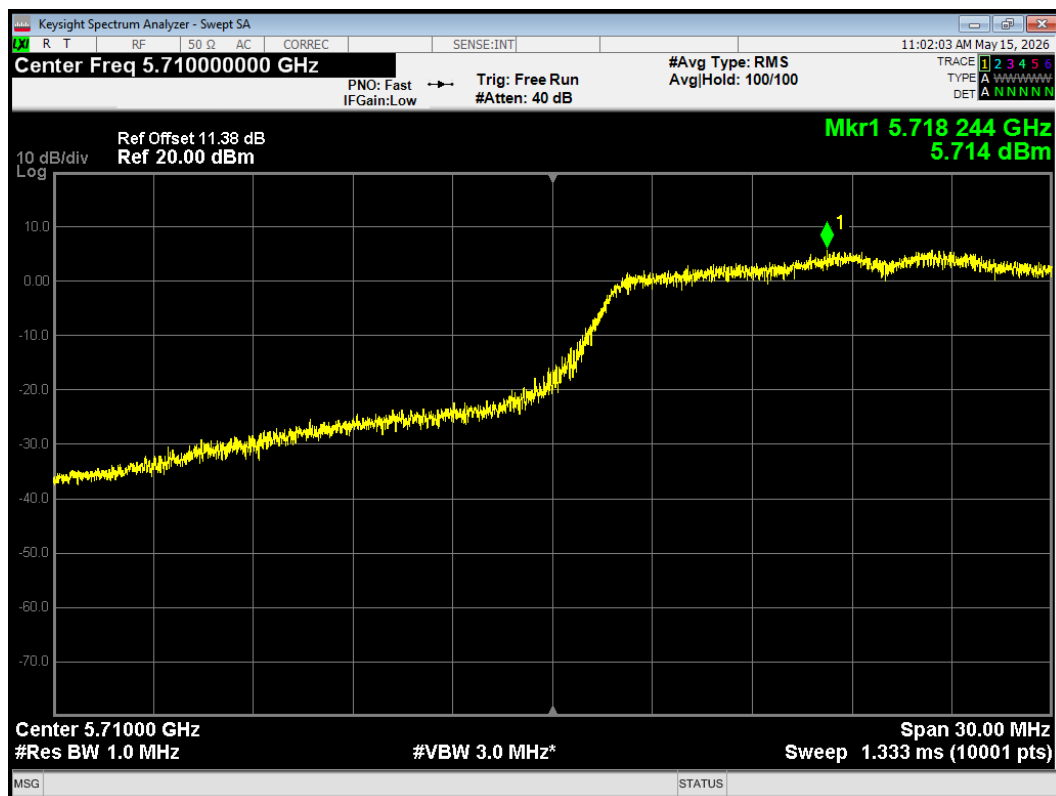
PSD 802.11a 5600MHz



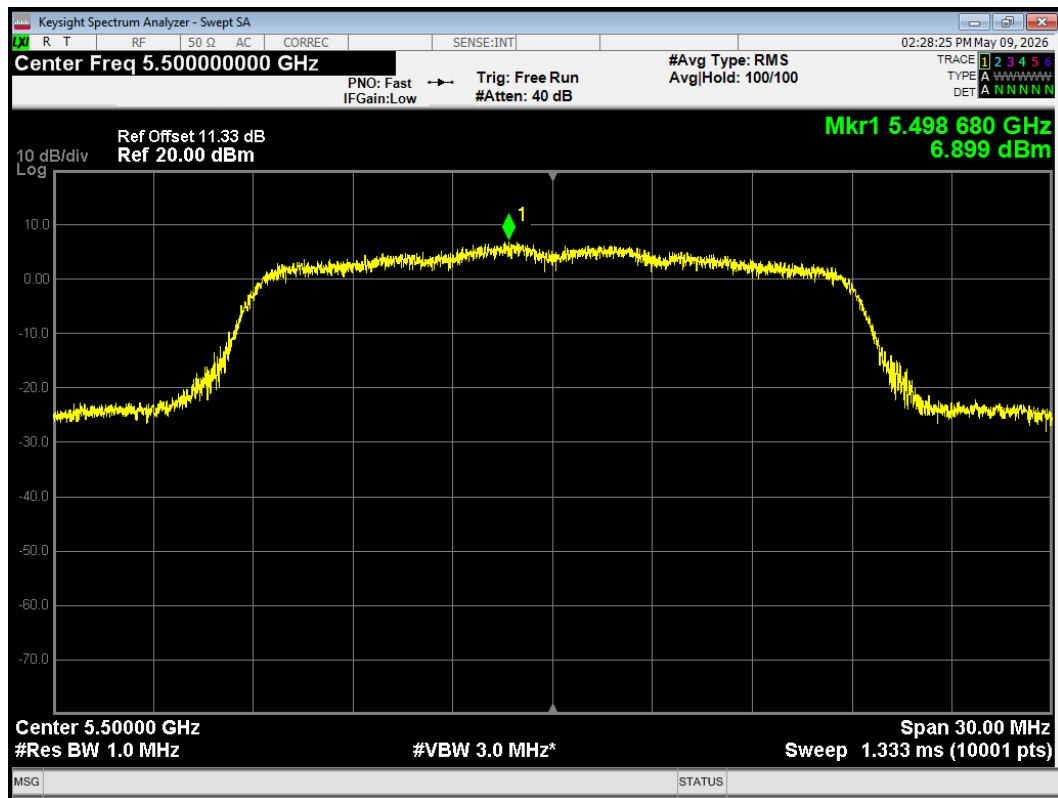
PSD 802.11a 5700MHz



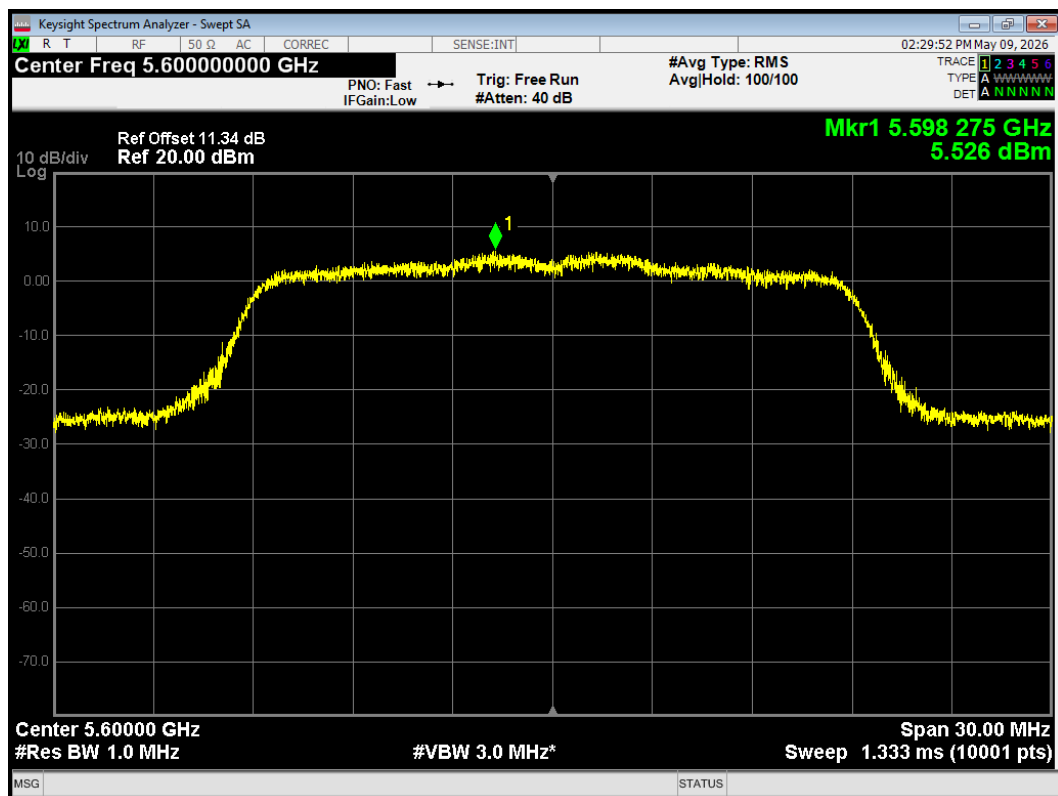
PSD 802.11a 5720MHz



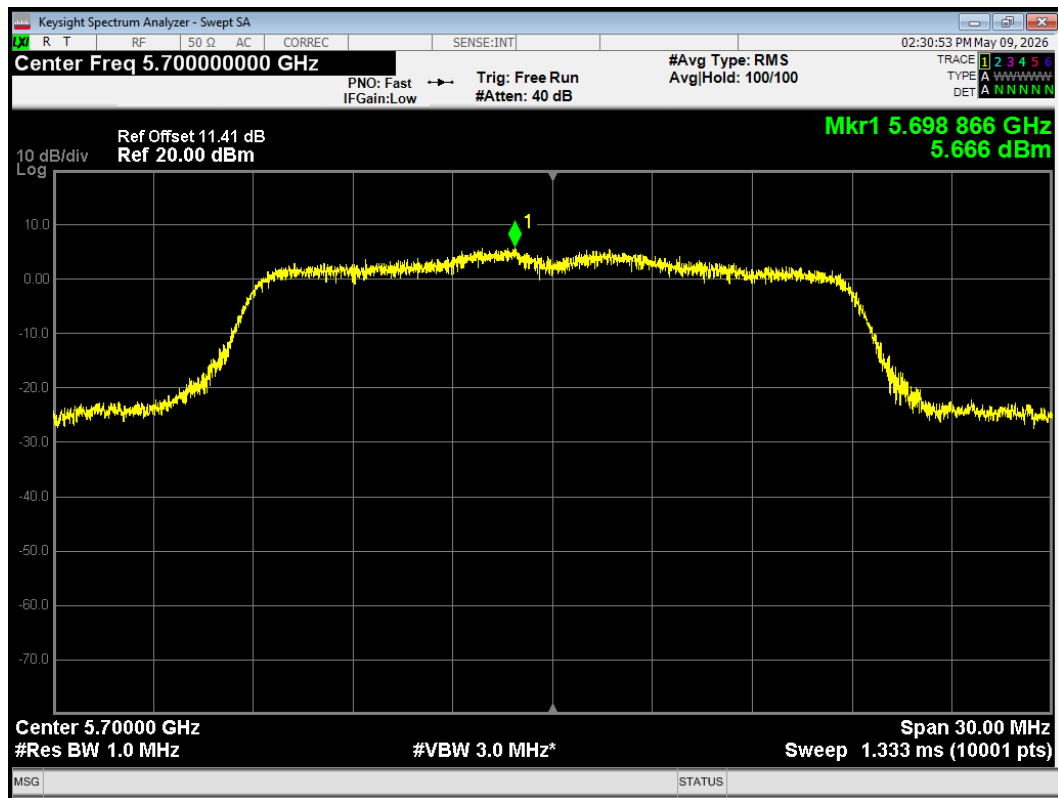
PSD 802.11ac(VHT20) 5500MHz



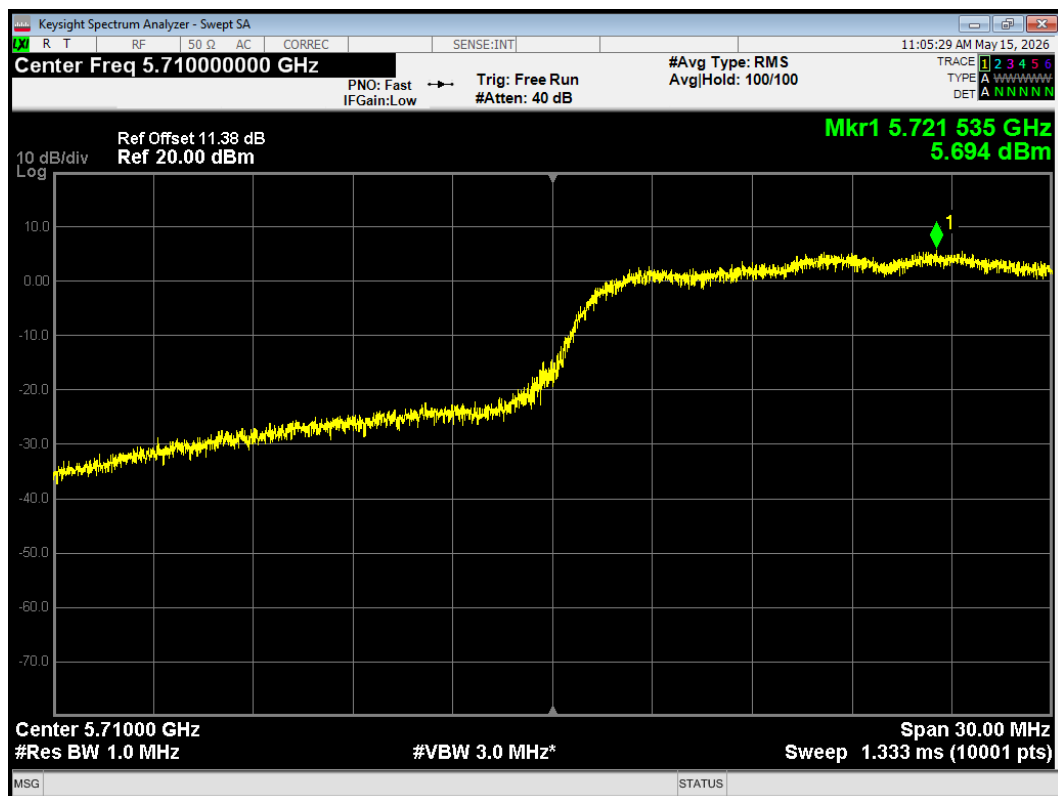
PSD 802.11ac(VHT20) 5600MHz



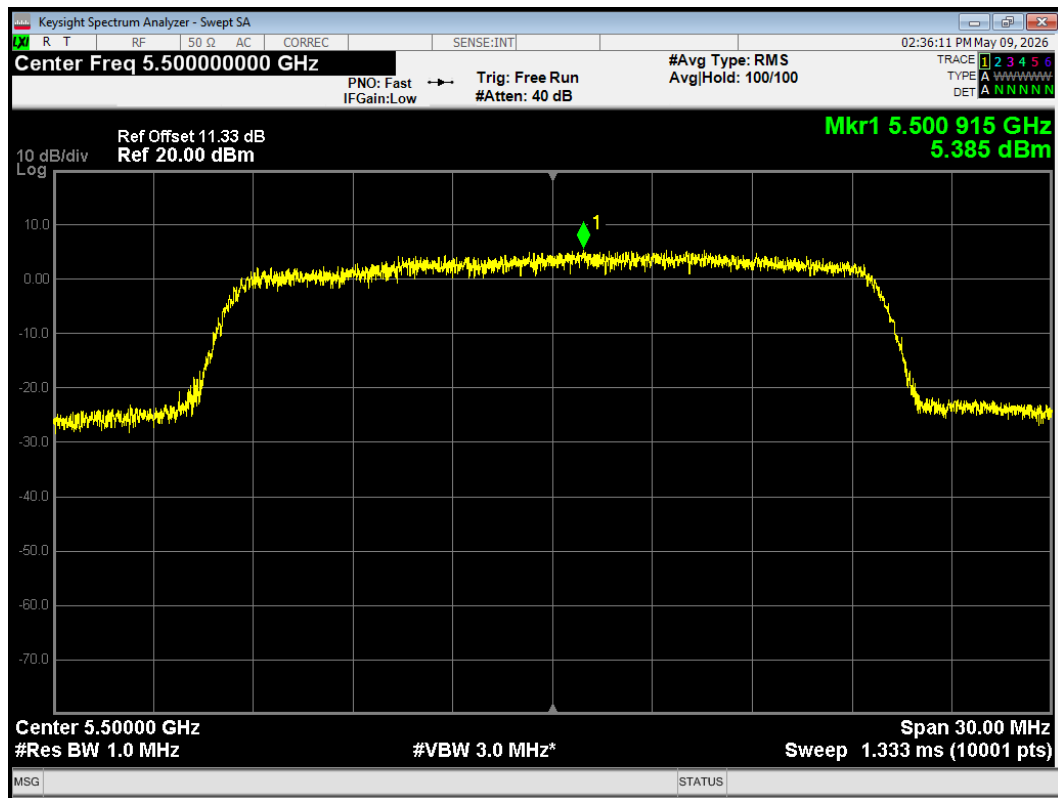
PSD 802.11ac(VHT20) 5700MHz



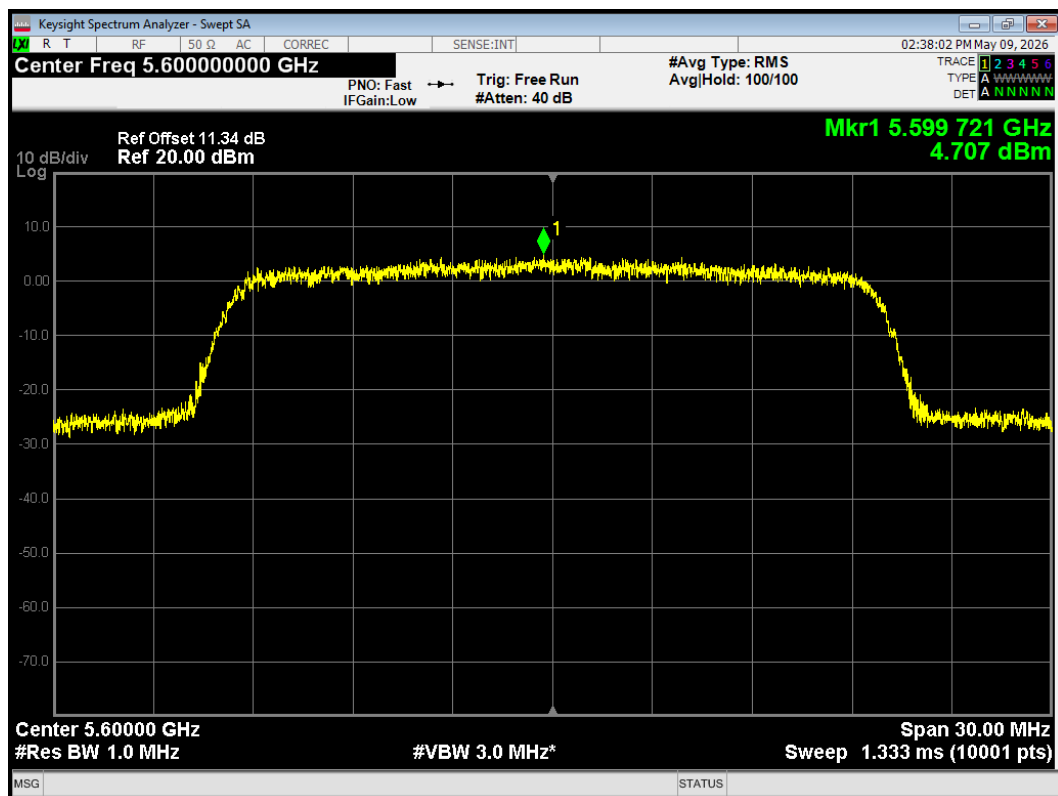
PSD 802.11ac(VHT20) 5720MHz



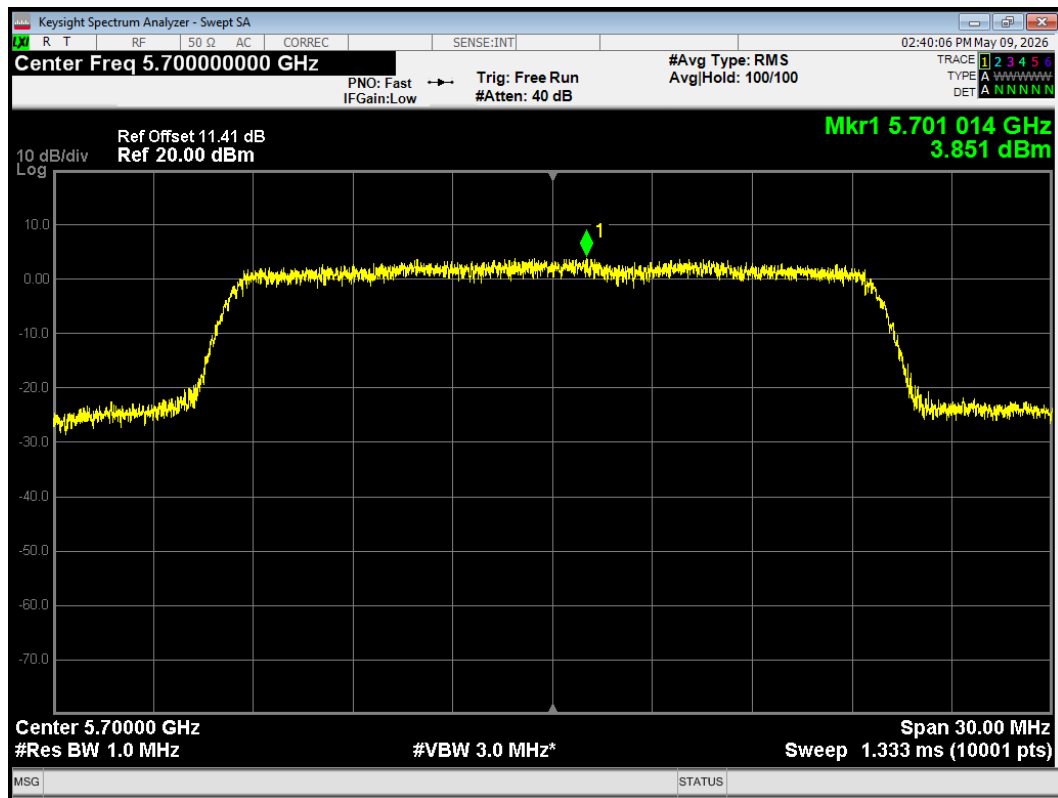
PSD 802.11ax(HE20) 5500MHz



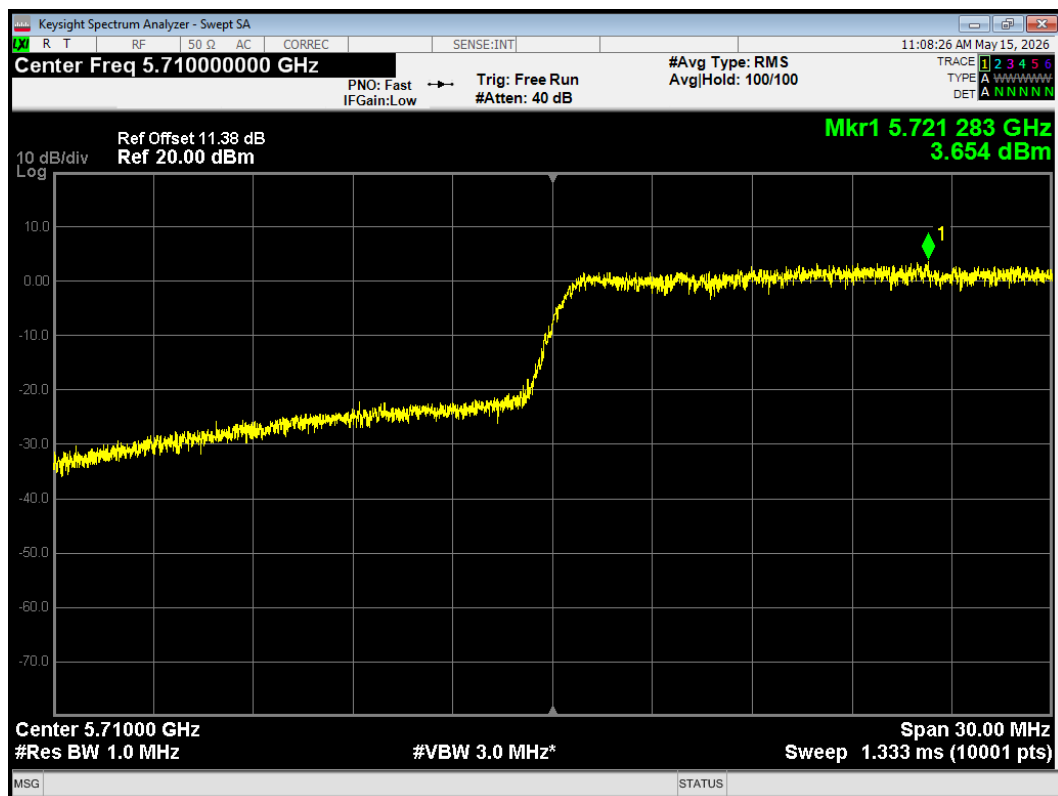
PSD 802.11ax(HE20) 5600MHz



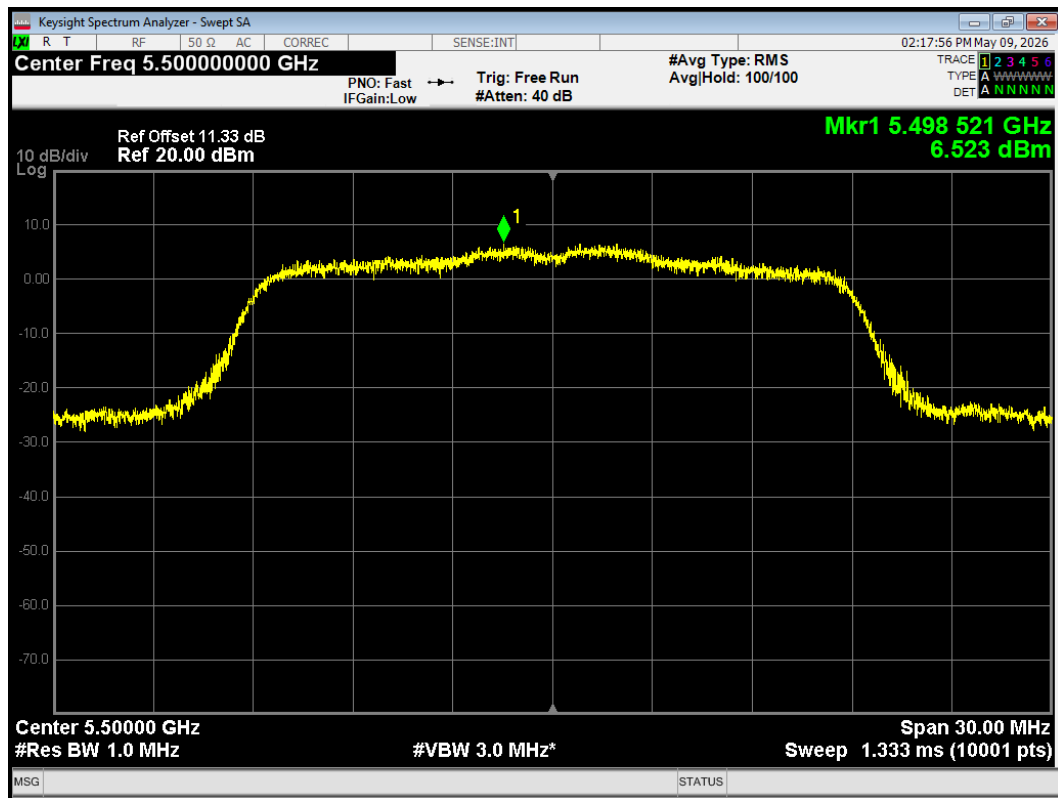
PSD 802.11ax(HE20) 5700MHz



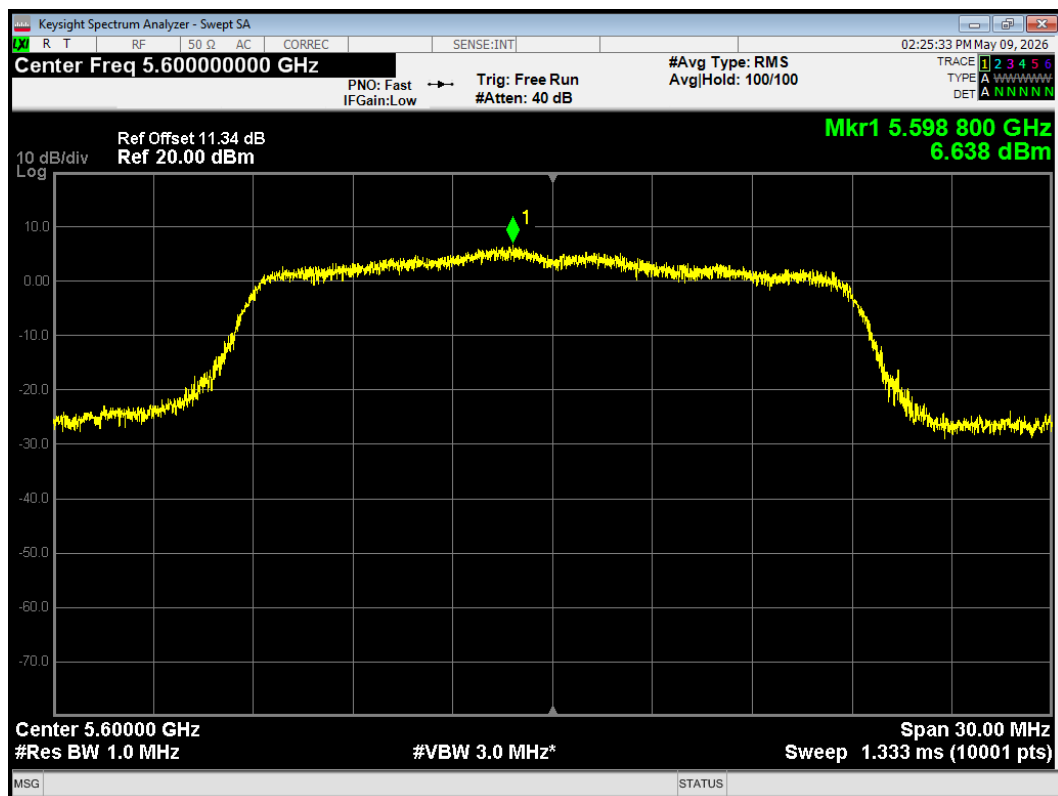
PSD 802.11ax(HE20) 5720MHz



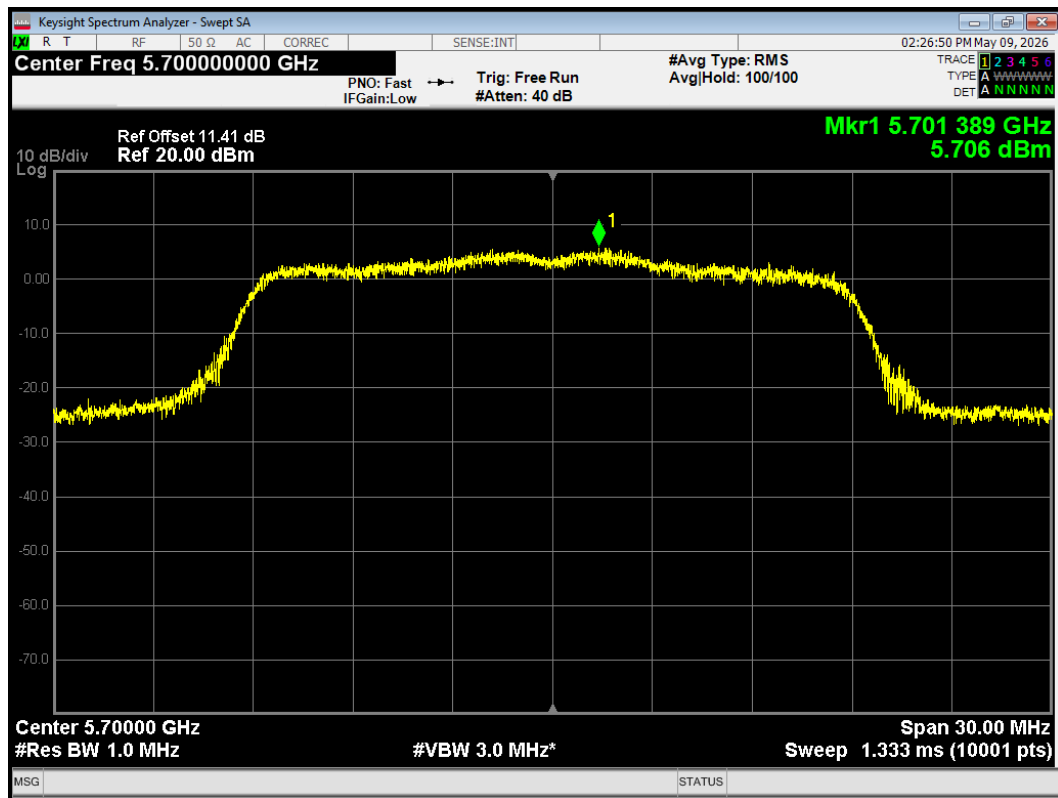
PSD 802.11n(HT20) 5500MHz



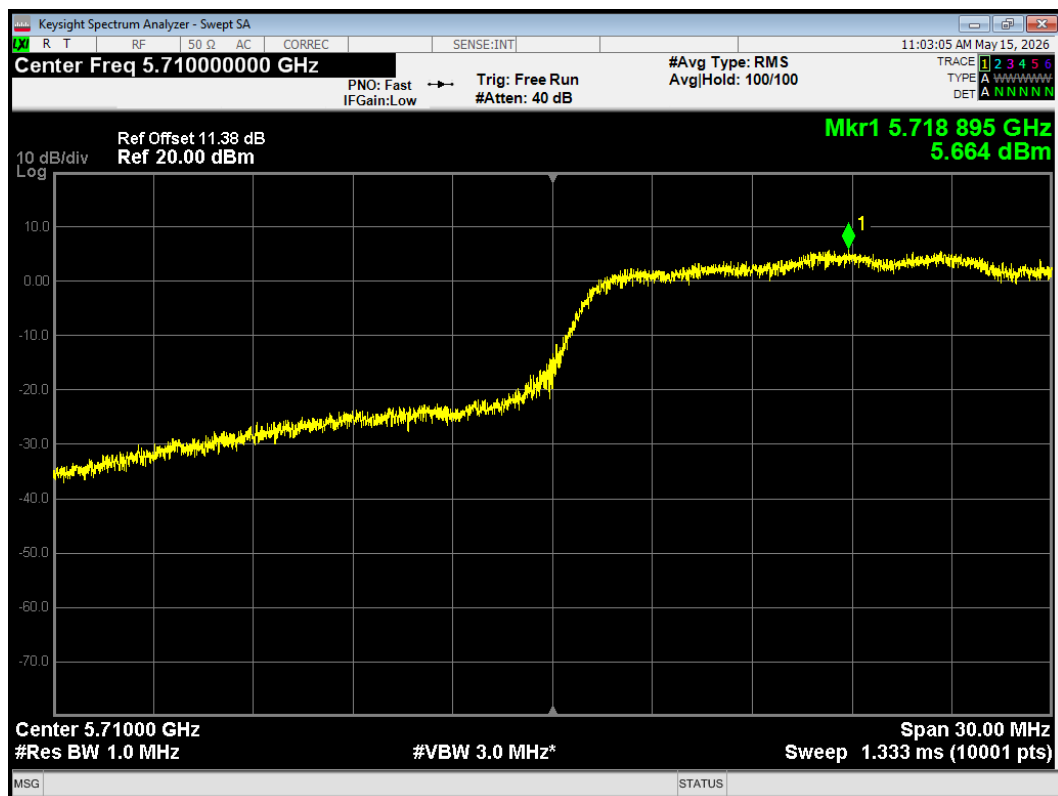
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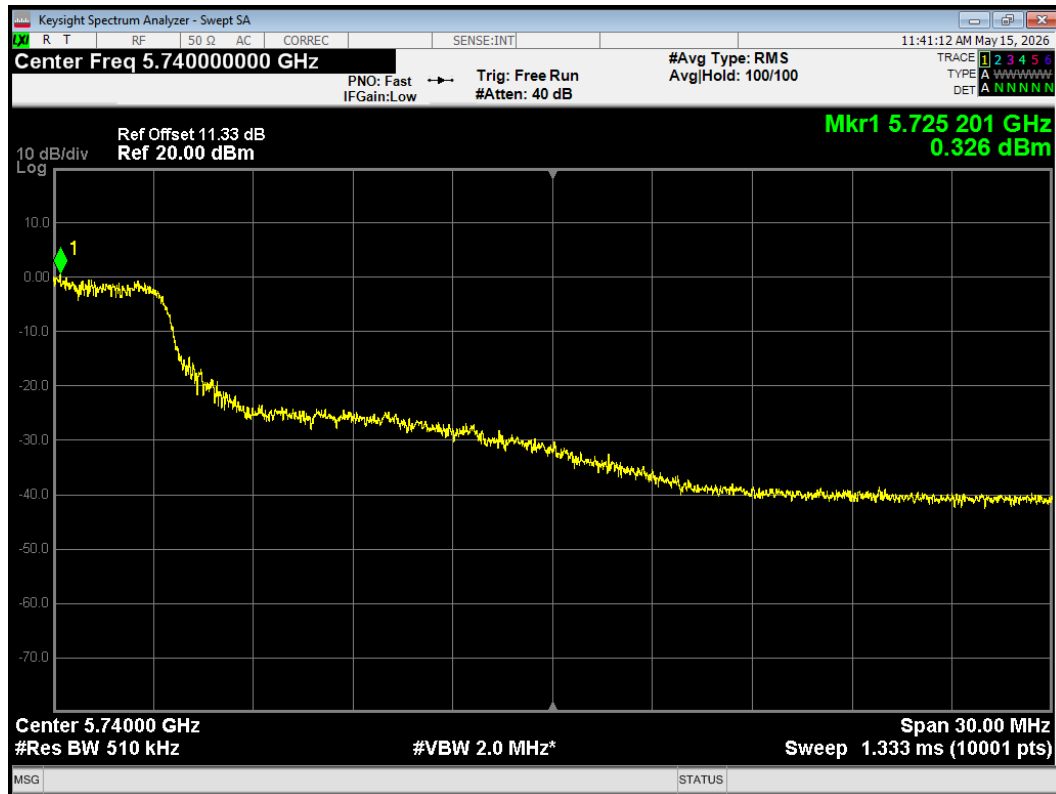
PSD 802.11n(HT20) 5700MHz



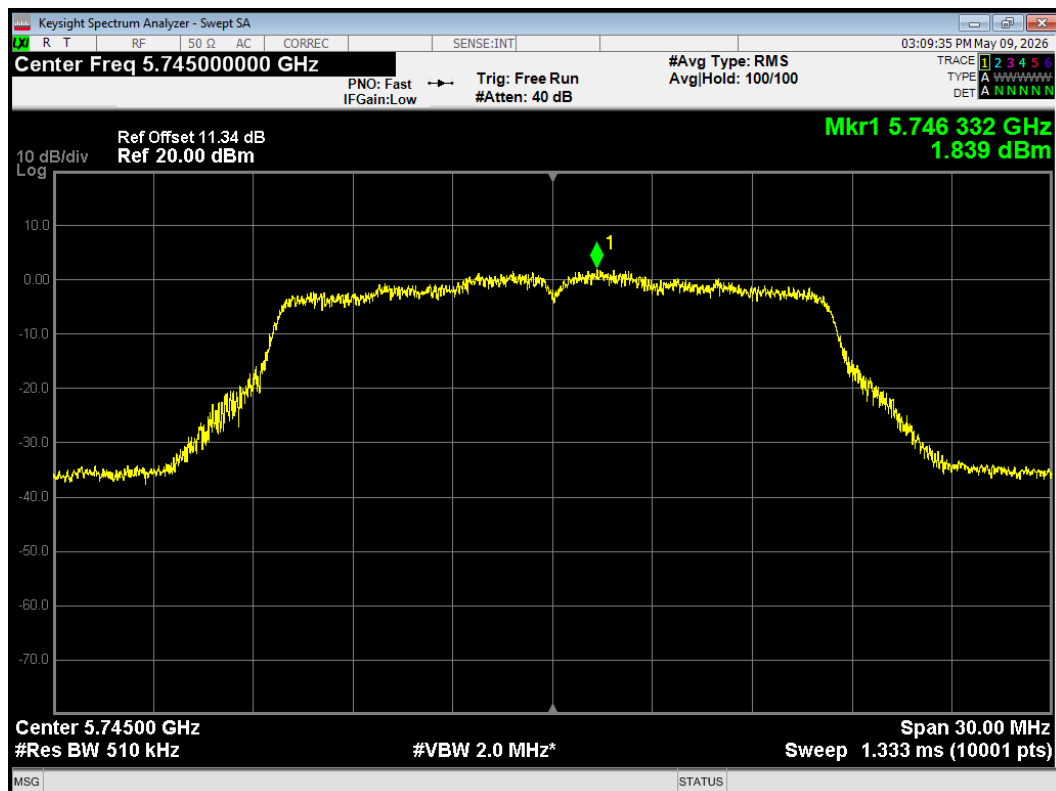
PSD 802.11n(HT20) 5720MHz



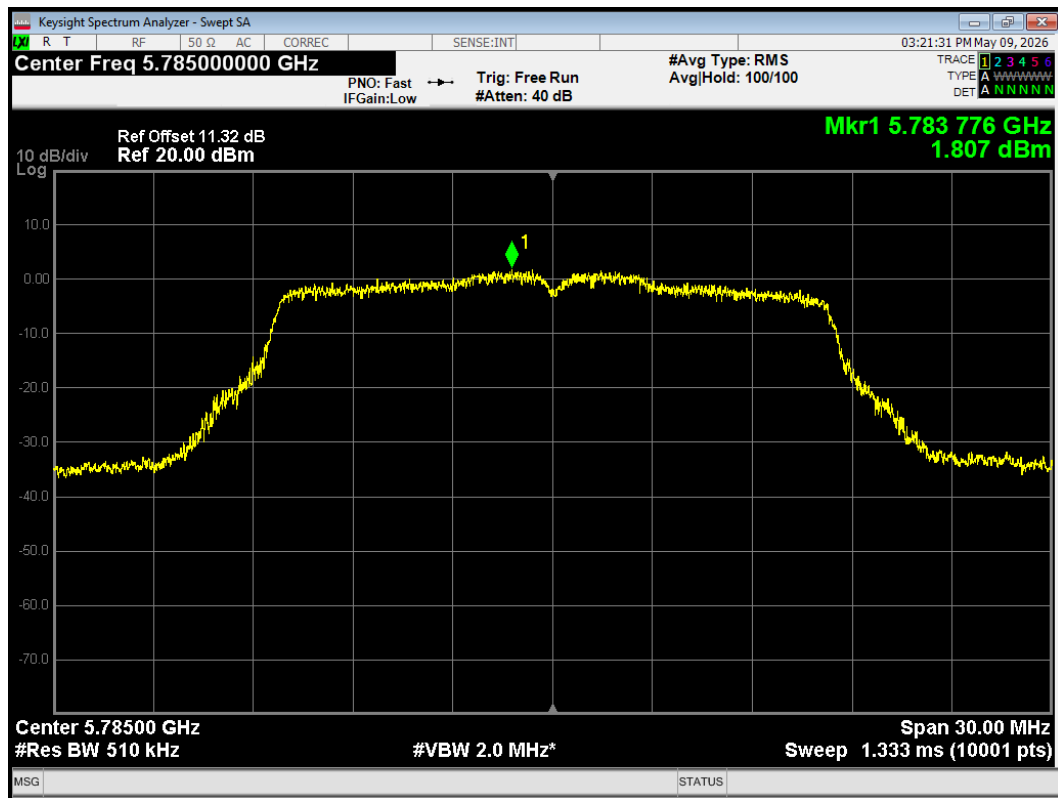
PSD 802.11a 5720MHz



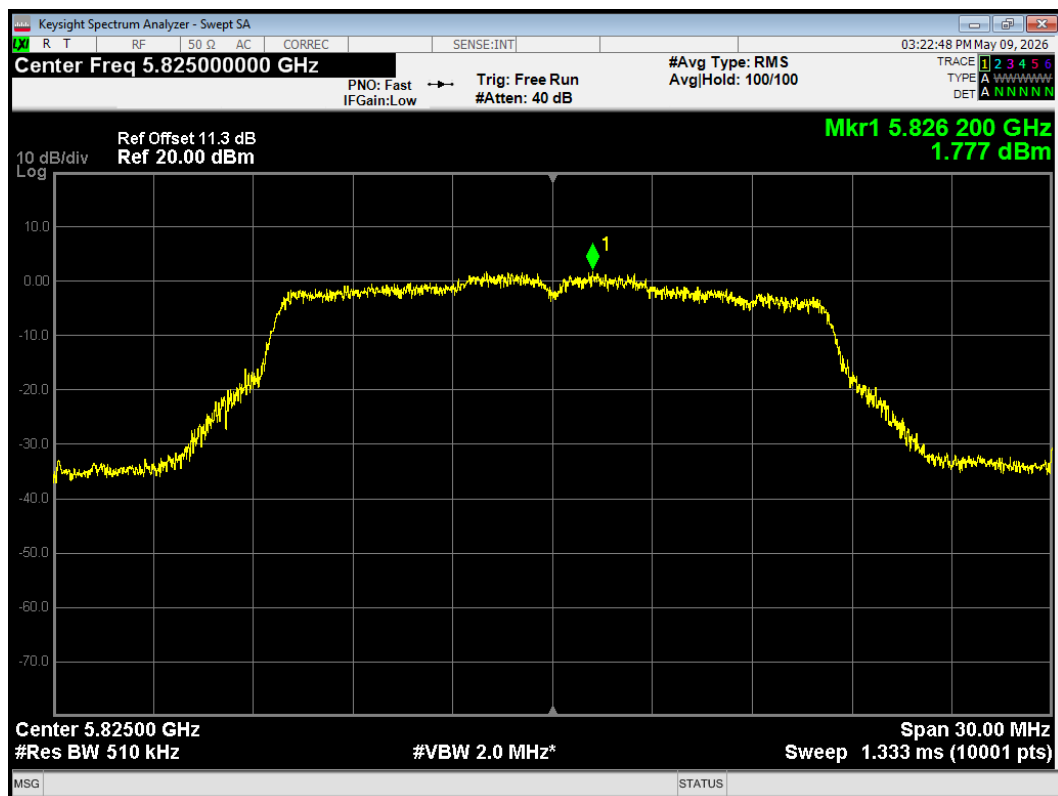
PSD 802.11a 5745MHz



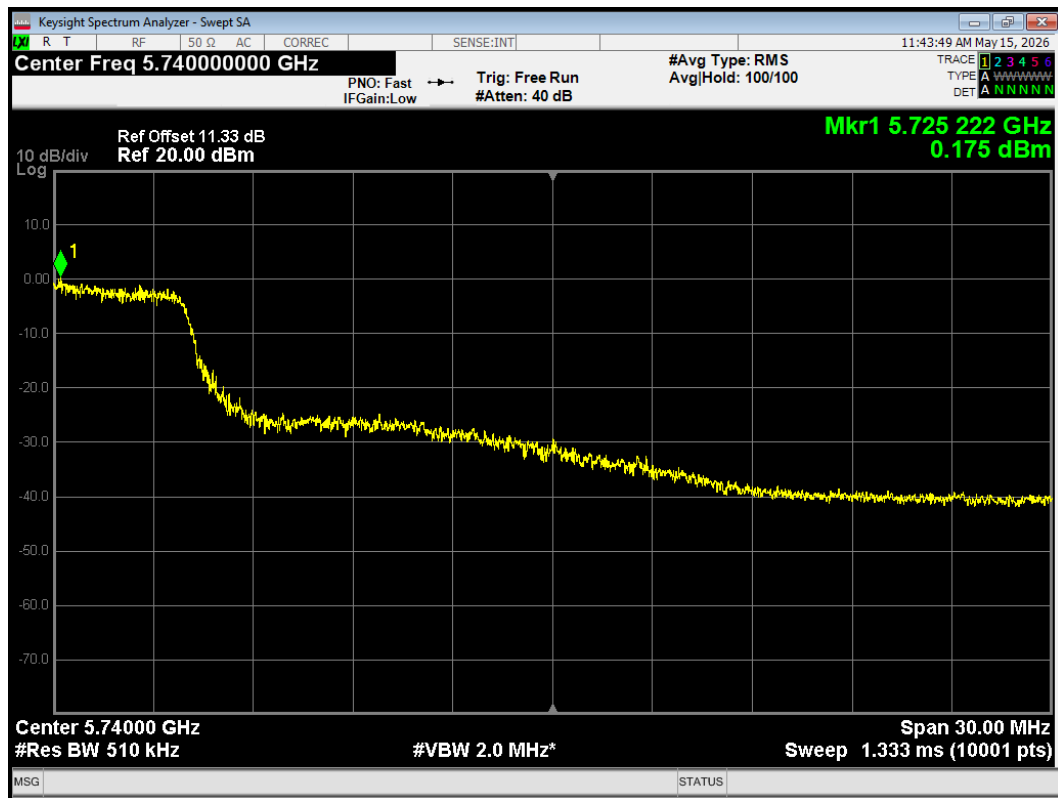
PSD 802.11a 5785MHz



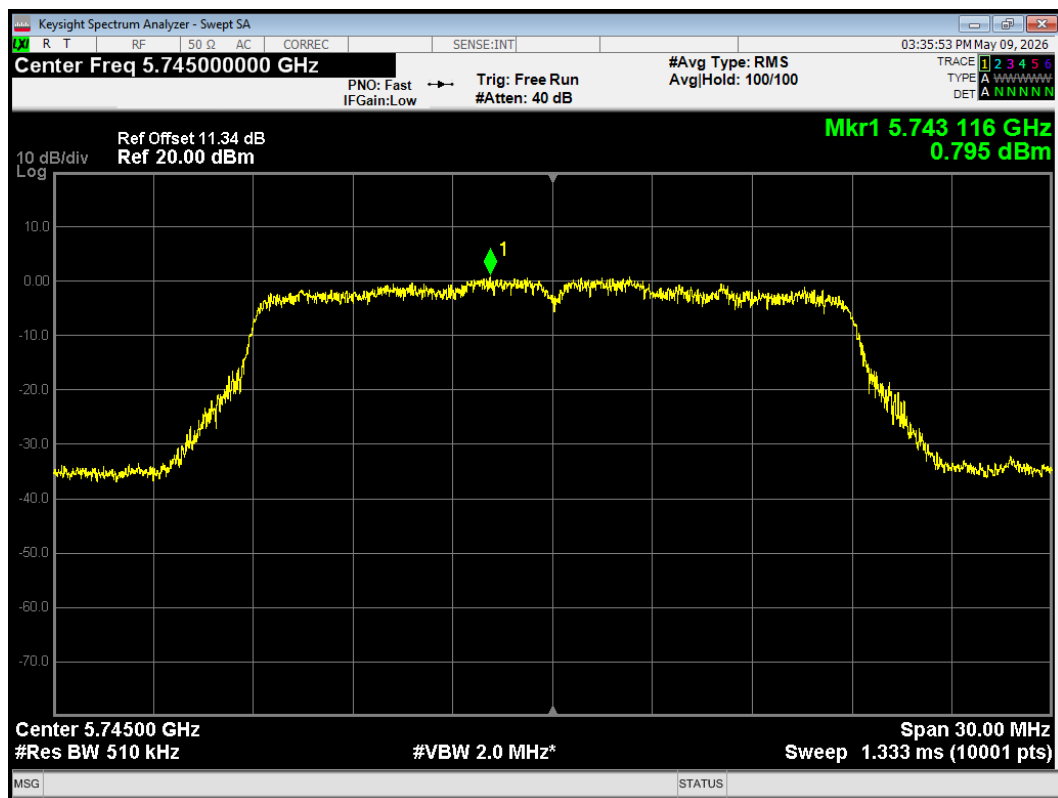
PSD 802.11a 5825MHz



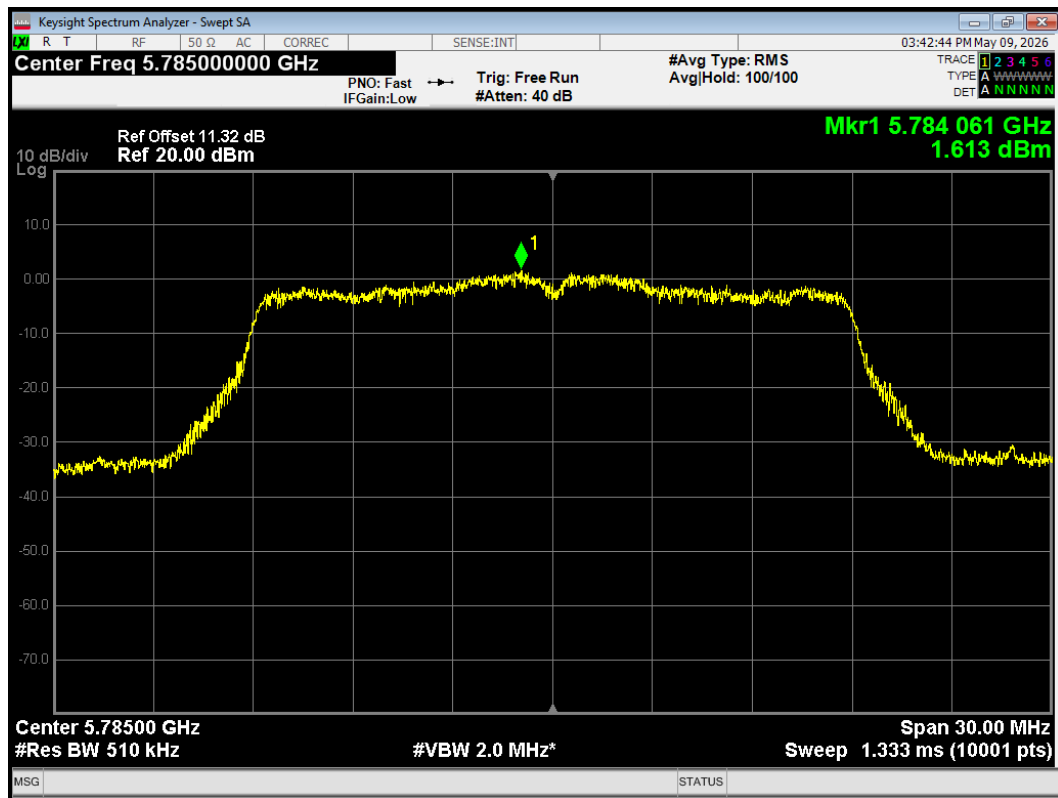
PSD 802.11ac(VHT20) 5720MHz



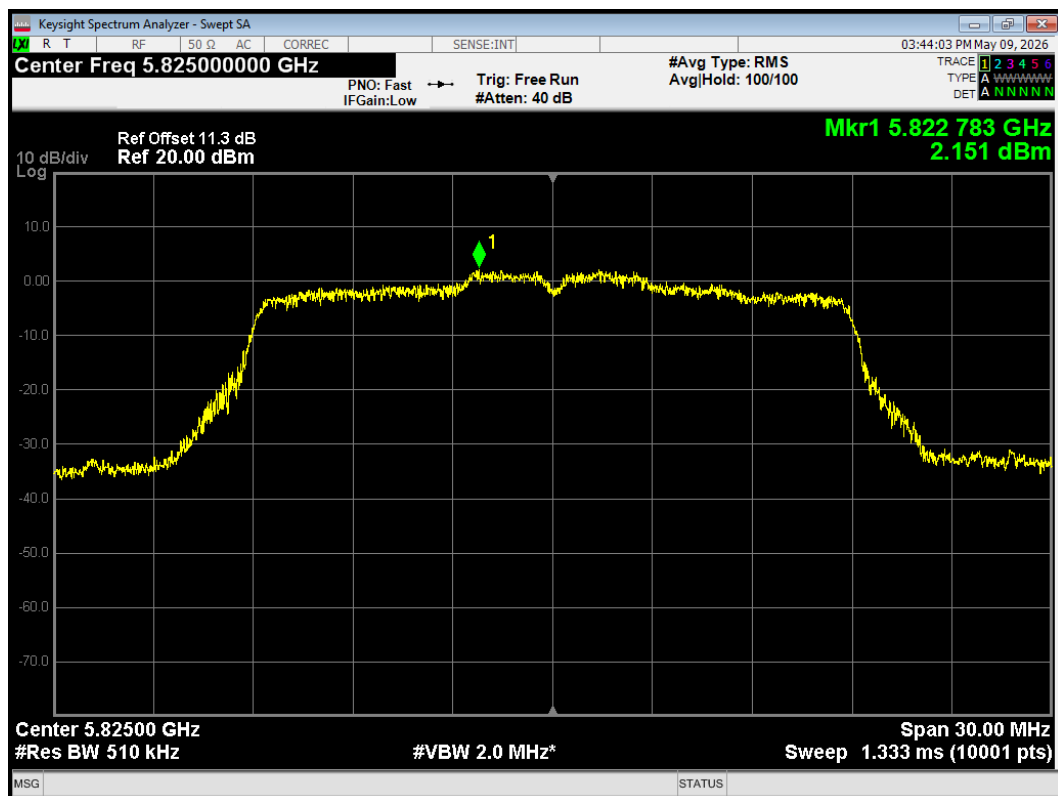
PSD 802.11ac(VHT20) 5745MHz



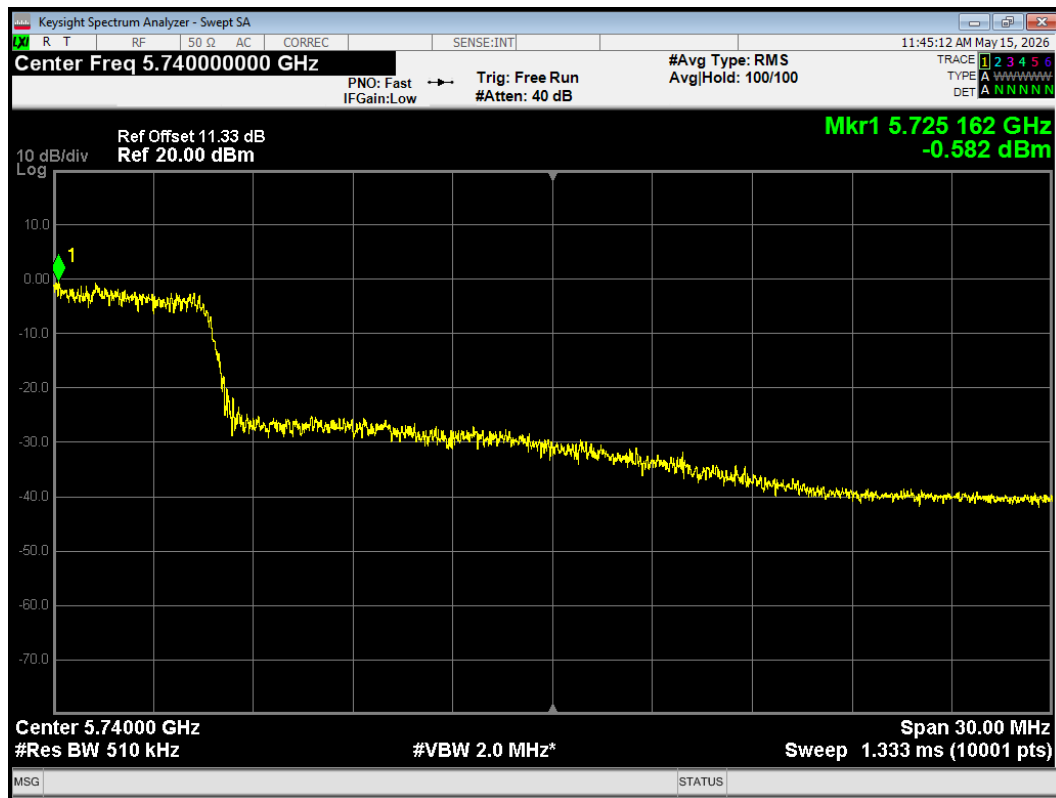
PSD 802.11ac(VHT20) 5785MHz



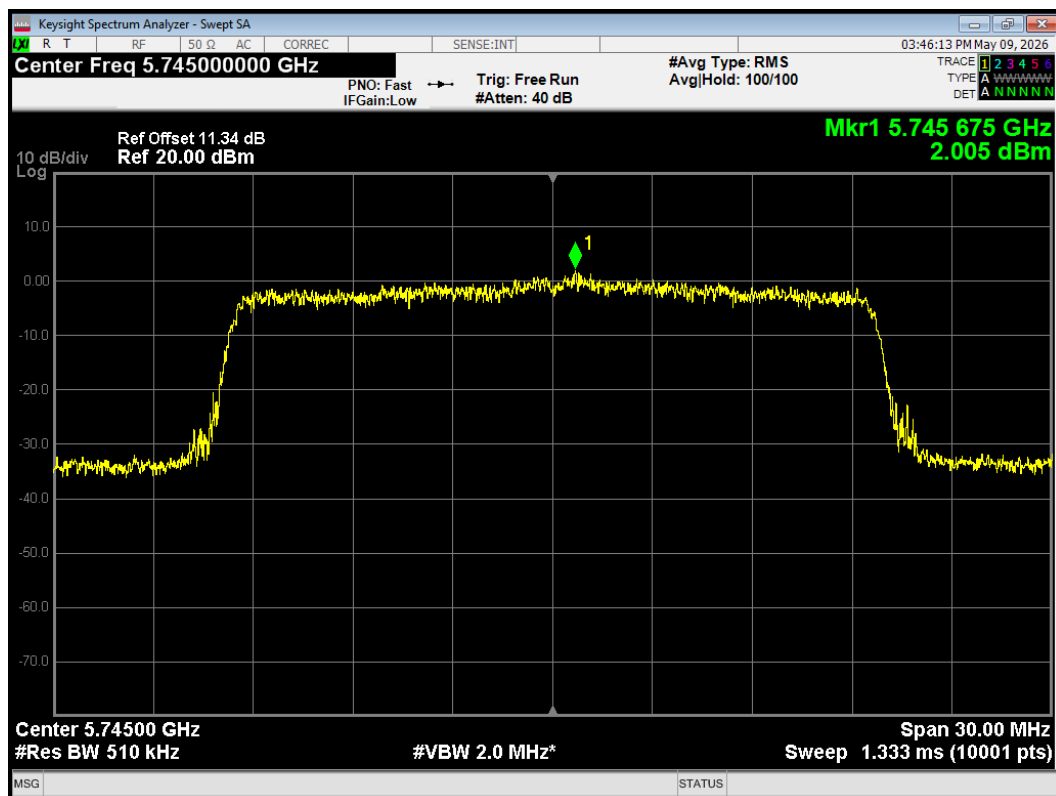
PSD 802.11ac(VHT20) 5825MHz



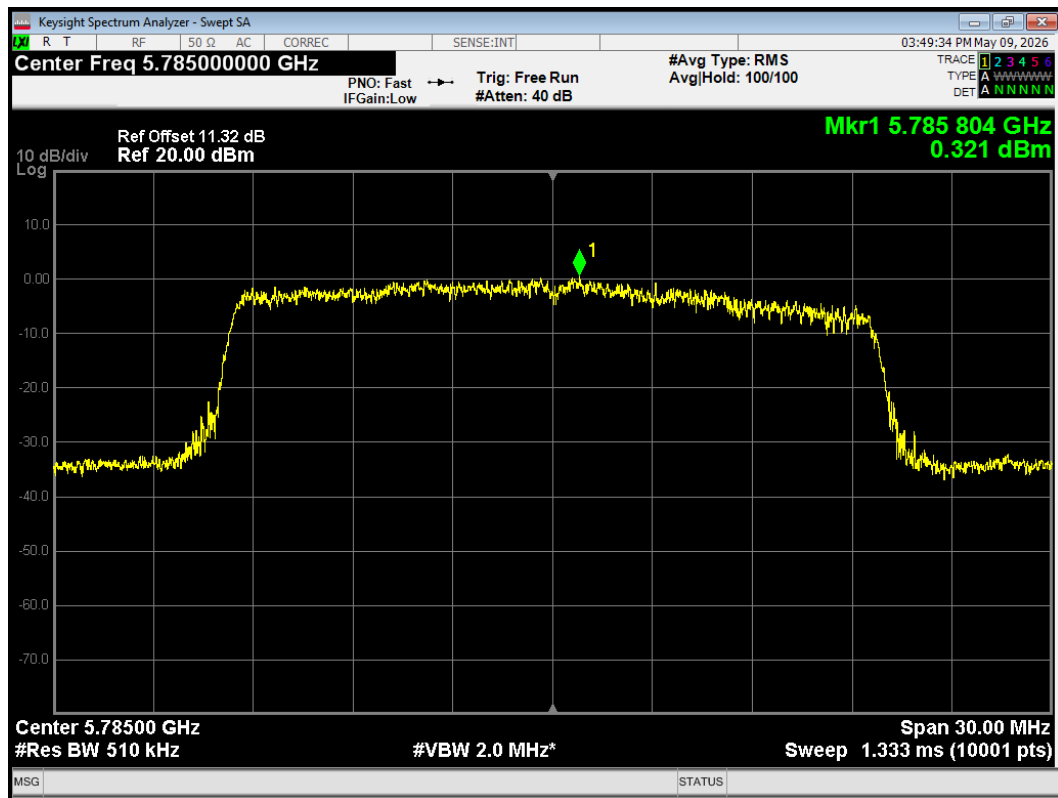
PSD 802.11ax(HE20) 5720MHz



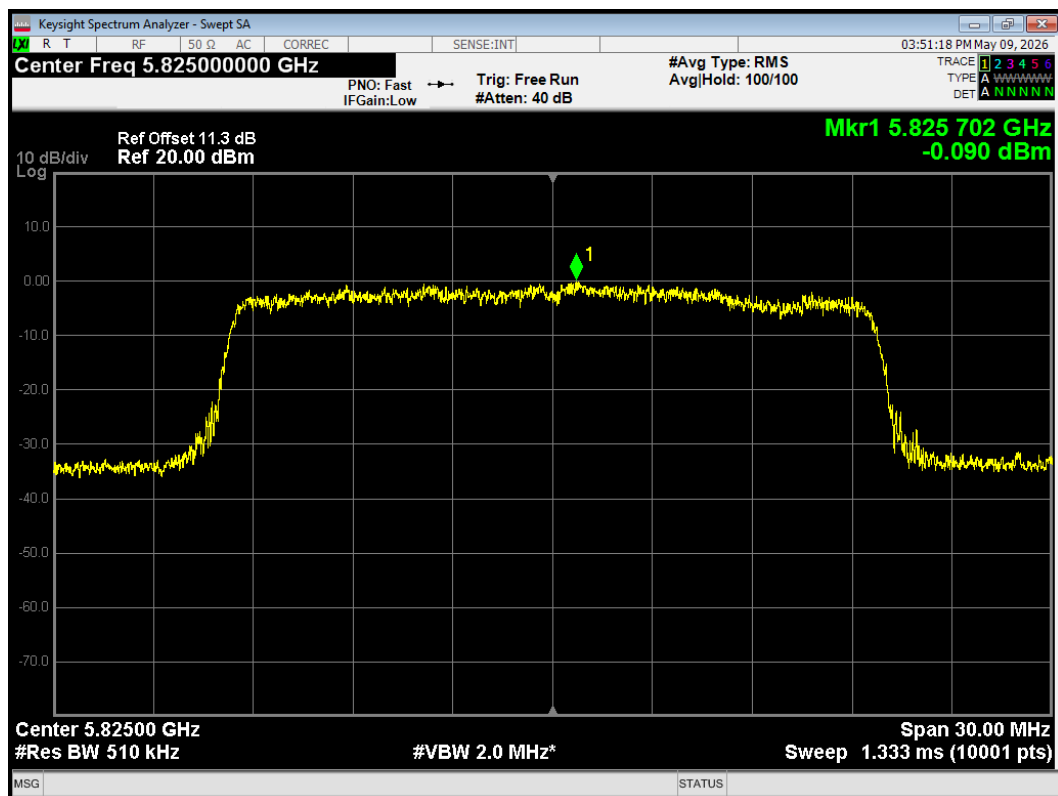
PSD 802.11ax(HE20) 5745MHz



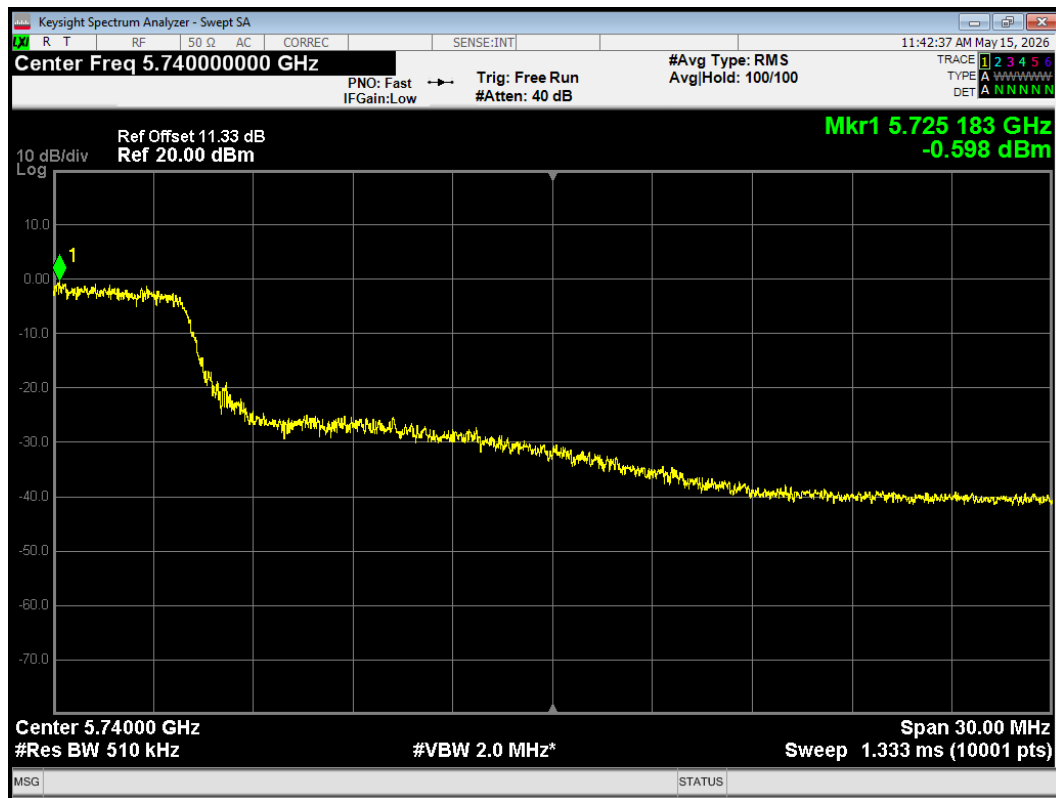
PSD 802.11ax(HE20) 5785MHz



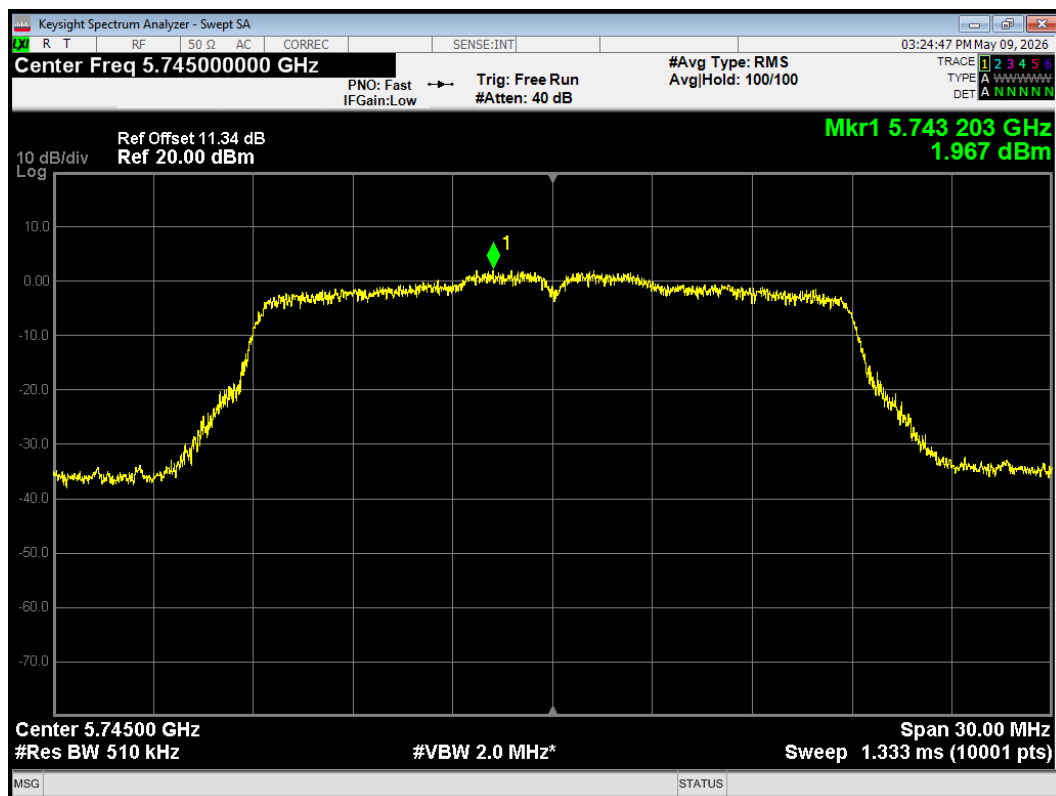
PSD 802.11ax(HE20) 5825MHz



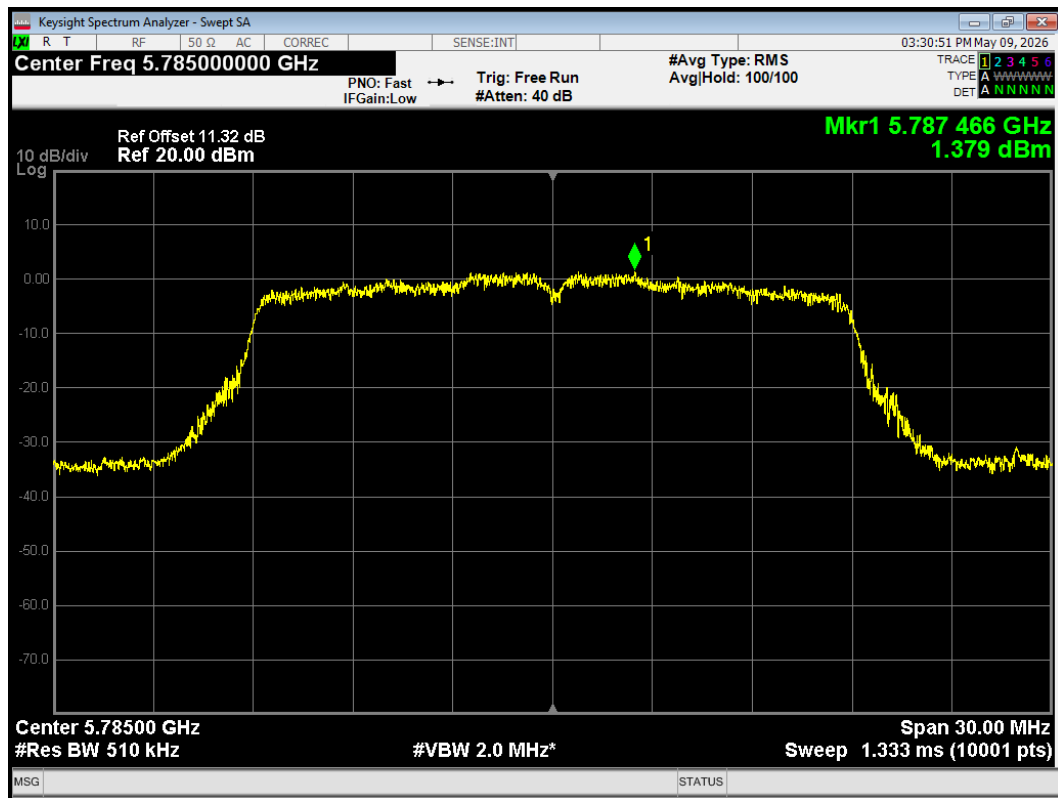
PSD 802.11n(HT20) 5720MHz



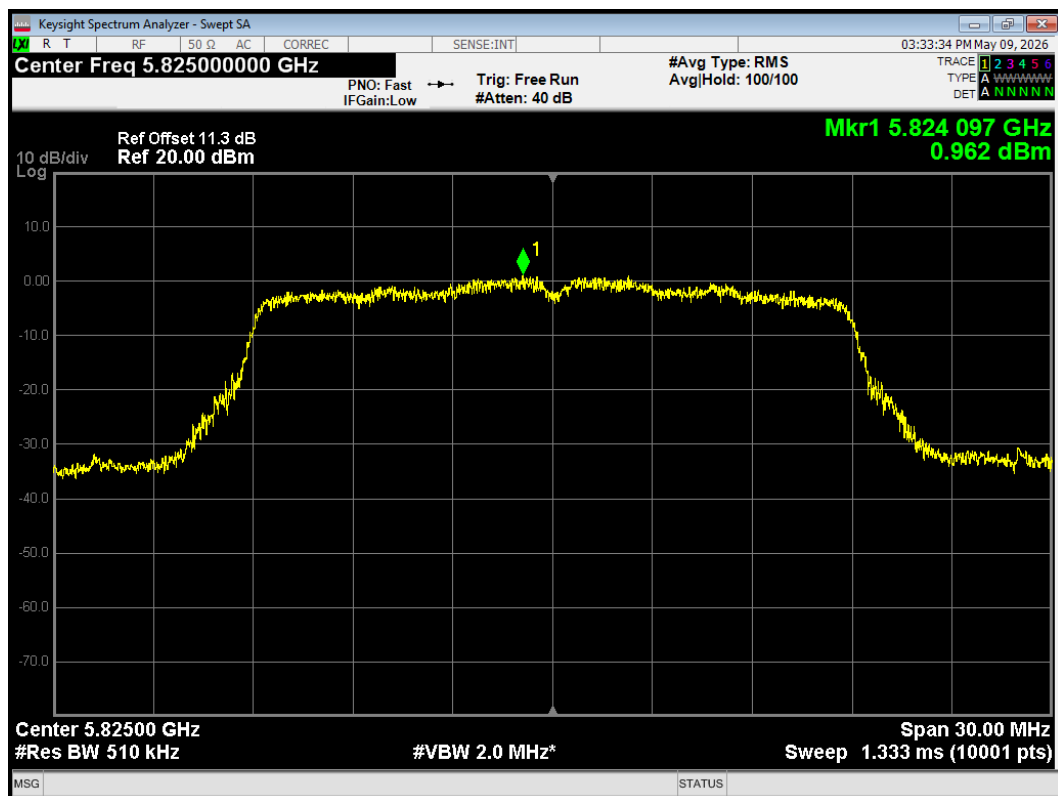
PSD 802.11n(HT20) 5745MHz



PSD 802.11n(HT20) 5785MHz



PSD 802.11n(HT20) 5825MHz



6.5. Unwanted Emission

The detailed test data see EFTA26040178-IE-08-R2-ANNEX A Test Result.

6.6. Conducted Emission

The detailed test data see EFTA26040178-IE-08-R2-ANNEX A Test Result.

7. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2026-04-21	2027-04-20
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2026-04-21	2027-04-20
DC Power Supply	UNI-T	UTP1306S+	2205D0517426	2025-11-24	2026-11-23
Climate Chamber	ESPEC	SU-242	93000506	2025-11-24	2026-11-23
Attenuator	HASCO	HA18A-10	0003	/	/
EMI Test Receiver	R&S	ESR	102389	2026-04-20	2027-04-19
Signal Analyzer	R&S	FSV40	101298	2026-04-20	2027-04-19
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2026-04-12	2029-04-11
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	R&S	HF 907	102723	2023-11-24	2026-11-23
Amplifier	R&S	SCU18	10034	2026-04-20	2027-04-19
Horn Antenna	R&S	BBHA 9170	101301	2023-09-16	2026-09-15
Amplifier	MicroWave	SCU40F1	100649	2025-12-01	2026-11-30
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2025-11-24	2026-11-23
EMI Test Receiver	R&S	ESR	101667	2026-04-20	2027-04-19
Software	R&S	ELEKTRA	5.02.1	/	/

8. The EUT Appearance

Refer to *EUT Appearance*.

9. Test Setup Photos

Refer to *Part15E Test Setup*.

***** END OF REPORT *****