

RF TEST REPORT

Applicant	Honor Device Co., Ltd.
FCC ID	2AYGCLGN-LX3
Product	Smart Phone
Brand	HONOR
Model	LGN-LX3
Report No.	EFTA25060265-IE-01-R14
Issue Date	August 13, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2024)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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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)	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: June 10, 2025 ~ July 24, 2025			
Date of Sample Received: June 16, 2025			
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

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.
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

2.2. General information

EUT Description			
Model		LGN-LX3	
SN	Conducted		ANYQJV5624G00182
	Radiated		ANYQJV5624G00017
Hardware Version		HL1LGNM	
Software Version		9.0.0.88(C900E15R1P1)GPU Turbo	
Power Supply		Battery / AC;DC adapter	
Antenna Type		Integrated Antenna	
Antenna Connector		A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)	
Antenna Gain		0 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/HT40): OFDM 802.11ac (VHT20/VHT40/VHT80): OFDM	
Max. Output Power		16.88 dBm	
Operating temperature range		0 ° C to 35 ° C	
Operating voltage range		3.50 VDC to 4.53 VDC	
Testing temperature range		-30 ° C to 50° C	
Testing voltage range		3.50 VDC – 3.92 VDC – 4.53 VDC	
State voltage		3.92 VDC	
EUT Accessory			
Accessory	Model	Manufacture	No.
Adapter	HN-110320U00	Honor Device Co., Ltd. (Huntkey)	1
	HN-110320B00		2
	HN-110320E00		3
	HN-110320U01	Honor Device Co., Ltd. (Aohai)	4
	HN-110320B01		5

	HN-110320E01		6
Battery	HB5168A4EIW-A	Honor Device Co., Ltd. (SCUD)	1
		Honor Device Co., Ltd. (COSMX)	2
USB Cable	AU2-CRO013HF	04072295(LJ)	1
	RY0002	04072295(NB)	2
	L125UC007-CS-H	04072295(LX)	3
	2120-00001-0	04072295(MG)	4

Note:

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 (2024) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output 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.

Worst-case data rates are shown as following table.

Mode	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	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
		40 MHz	38	5190MHz
			46	5230MHz
		80 MHz	42	5210MHz
	U-NII-2A	20 MHz	52	5260MHz
			56	5280MHz
			60	5300MHz
			64	5320MHz
		40 MHz	54	5270MHz
			62	5310MHz
		80 MHz	58	5290MHz
	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
		40 MHz	102	5510MHz
			110	5550MHz
			118	5590MHz

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			126	5630MHz
			134	5670MHz
		80 MHz	106	5530MHz
			122	5610MHz
	U-NII-3	20 MHz	149	5745MHz
			153	5765MHz
			157	5785MHz
			161	5805MHz
			165	5825MHz
		40 MHz	151	5755MHz
			159	5795MHz
		80 MHz	155	5775MHz

Does this device support TPC Function? ☐Yes ☒No

Does this device support TDWR Band? ☒Yes ☐No

5. Test Case Results

5.1. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

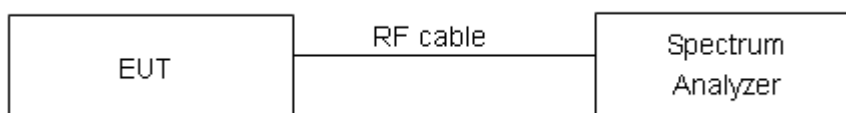
For U-NII-1/U-NII-2A/U-NII-2C, set RBW $\approx$ 1% OCB kHz, VBW $\geq 3 \times$ RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW $\geq 3 \times$ RBW, 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.

Test Results:
U-NII-1

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5180	16.687	22.977	Pass
802.11a	5200	16.722	23.390	Pass
802.11a	5240	16.682	23.918	Pass
802.11ac(VHT20)	5180	17.881	23.713	Pass
802.11ac(VHT20)	5200	17.852	24.465	Pass
802.11ac(VHT20)	5240	17.863	24.210	Pass
802.11ac(VHT40)	5190	36.307	41.345	Pass
802.11ac(VHT40)	5230	36.279	41.535	Pass
802.11ac(VHT80)	5210	75.688	92.376	Pass
802.11n(HT20)	5180	17.827	24.353	Pass
802.11n(HT20)	5200	16.700	22.803	Pass
802.11n(HT20)	5240	16.732	23.451	Pass
802.11n(HT40)	5190	36.283	40.888	Pass
802.11n(HT40)	5230	36.243	41.639	Pass

U-NII-2A

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5260	16.659	22.819	Pass
802.11a	5300	16.713	25.034	Pass
802.11a	5320	16.646	22.466	Pass
802.11ac(VHT20)	5260	17.863	24.652	Pass
802.11ac(VHT20)	5300	17.849	24.545	Pass
802.11ac(VHT20)	5320	17.846	24.492	Pass
802.11ac(VHT40)	5270	36.295	41.303	Pass
802.11ac(VHT40)	5310	36.279	41.288	Pass
802.11ac(VHT80)	5290	75.721	83.231	Pass
802.11n(HT20)	5260	17.857	22.936	Pass
802.11n(HT20)	5300	17.847	24.336	Pass
802.11n(HT20)	5320	17.859	23.934	Pass
802.11n(HT40)	5270	36.272	41.465	Pass
802.11n(HT40)	5310	36.263	41.640	Pass

U-NII-2C

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	5500	16.661	22.984	Pass
802.11a	5600	16.666	22.890	Pass
802.11a	5700	16.718	22.673	Pass
802.11ac(VHT20)	5500	17.805	23.466	Pass
802.11ac(VHT20)	5600	17.819	23.409	Pass
802.11ac(VHT20)	5700	17.840	24.043	Pass
802.11ac(VHT40)	5510	36.258	41.098	Pass
802.11ac(VHT40)	5590	36.264	41.741	Pass
802.11ac(VHT40)	5670	36.253	41.246	Pass
802.11ac(VHT80)	5610	75.722	107.798	Pass
802.11n(HT20)	5500	17.855	23.616	Pass
802.11n(HT20)	5600	17.837	23.613	Pass
802.11n(HT20)	5700	17.806	24.324	Pass
802.11n(HT40)	5510	36.255	41.338	Pass
802.11n(HT40)	5590	36.256	40.934	Pass
802.11n(HT40)	5670	36.275	40.852	Pass

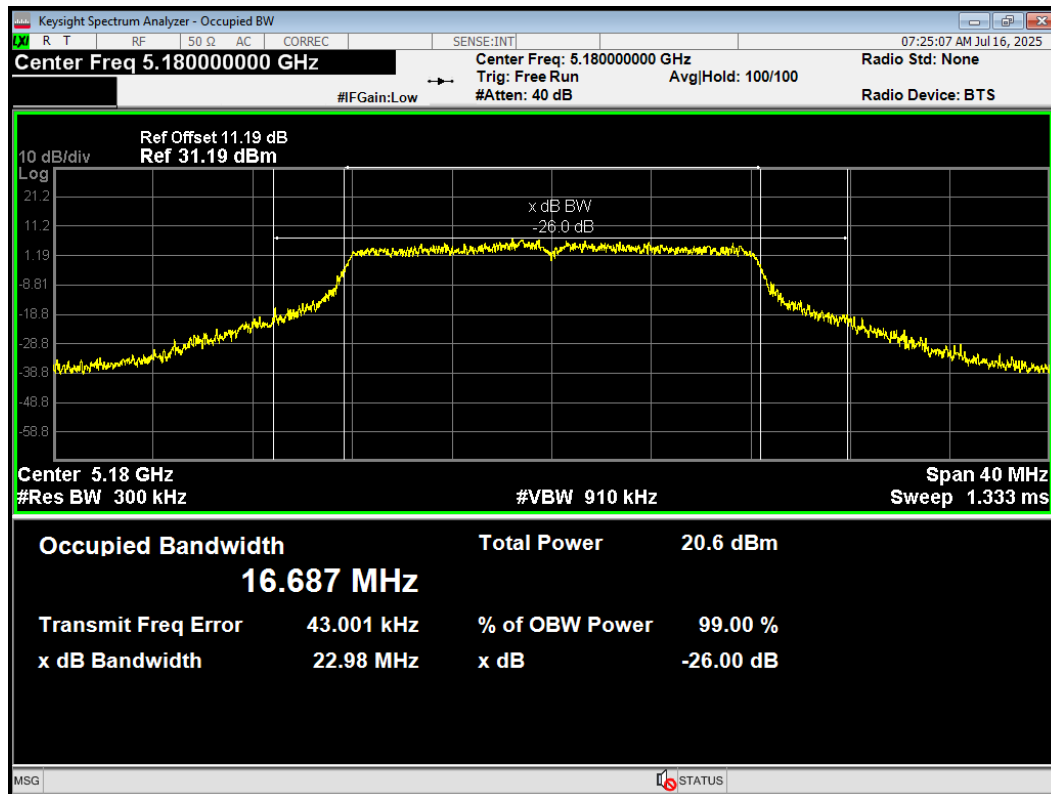
U-NII-3

Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11a	5745	16.651	15.089	500	Pass
802.11a	5785	16.677	16.332	500	Pass
802.11a	5825	16.690	15.088	500	Pass
802.11ac(VHT20)	5745	17.868	13.606	500	Pass
802.11ac(VHT20)	5785	17.817	16.459	500	Pass
802.11ac(VHT20)	5825	17.811	13.898	500	Pass
802.11ac(VHT40)	5755	36.208	35.725	500	Pass
802.11ac(VHT40)	5795	36.272	35.435	500	Pass
802.11ac(VHT80)	5775	75.738	75.153	500	Pass
802.11n(HT20)	5745	17.819	16.275	500	Pass
802.11n(HT20)	5785	17.819	15.984	500	Pass
802.11n(HT20)	5825	17.860	16.012	500	Pass
802.11n(HT40)	5755	36.272	35.061	500	Pass
802.11n(HT40)	5795	36.236	35.666	500	Pass

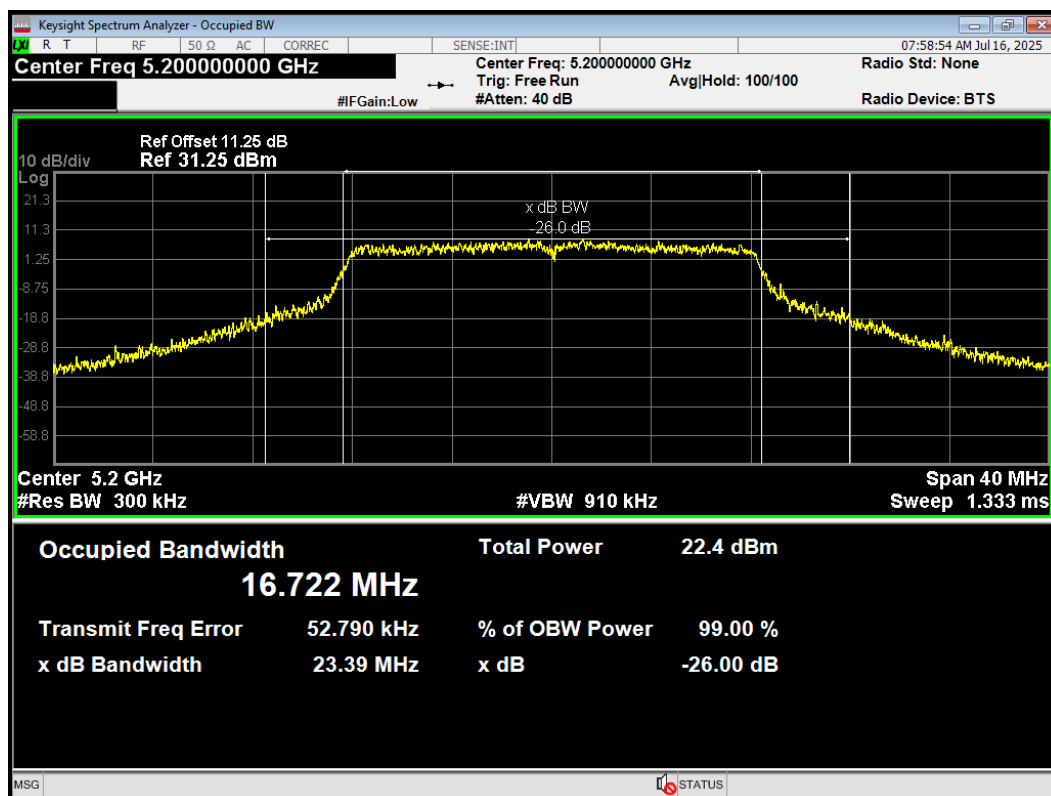
99% bandwidth

U-NII-1

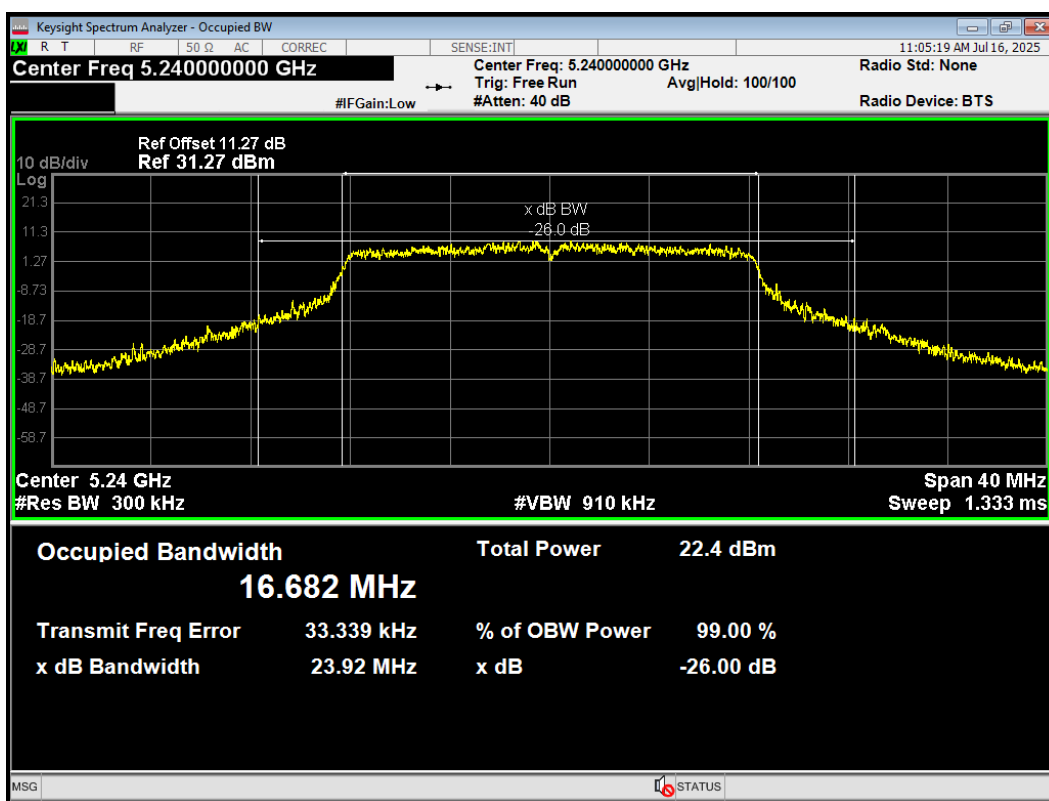
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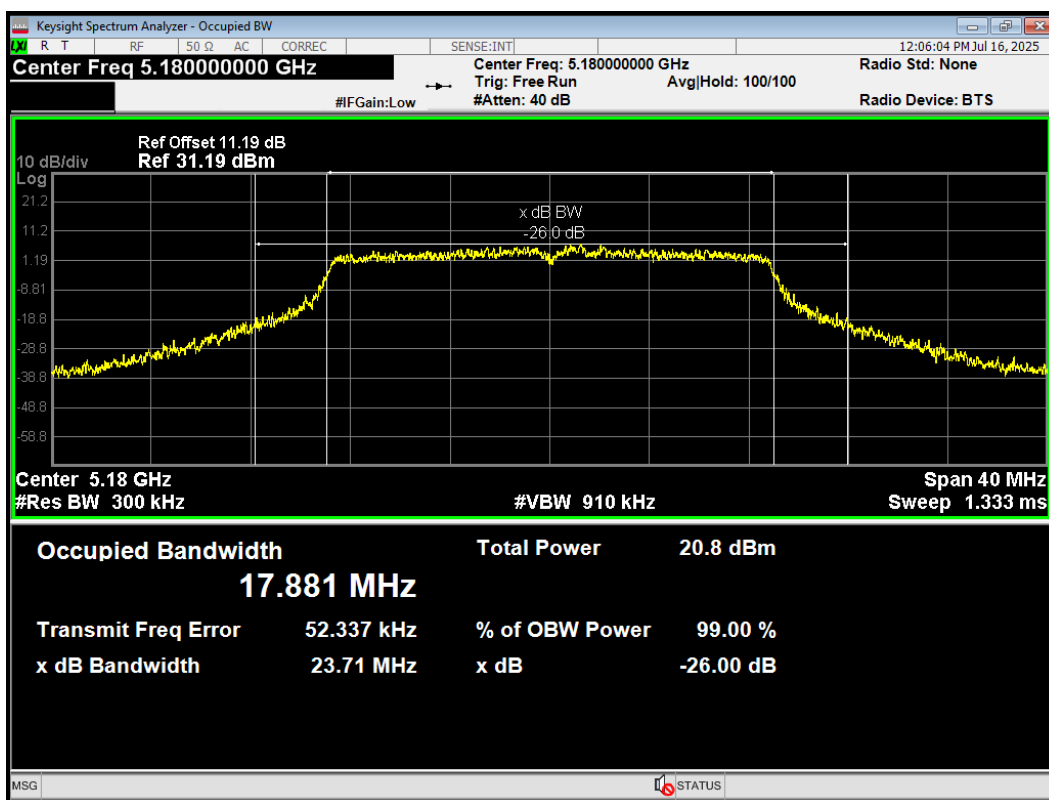
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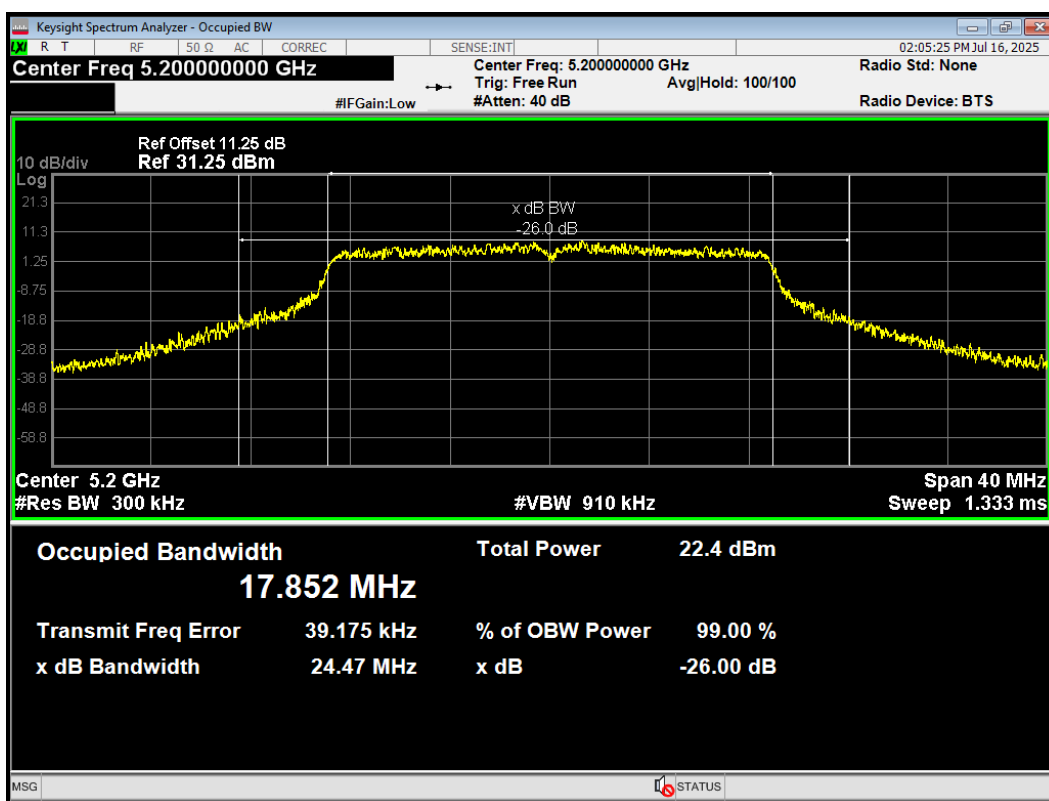
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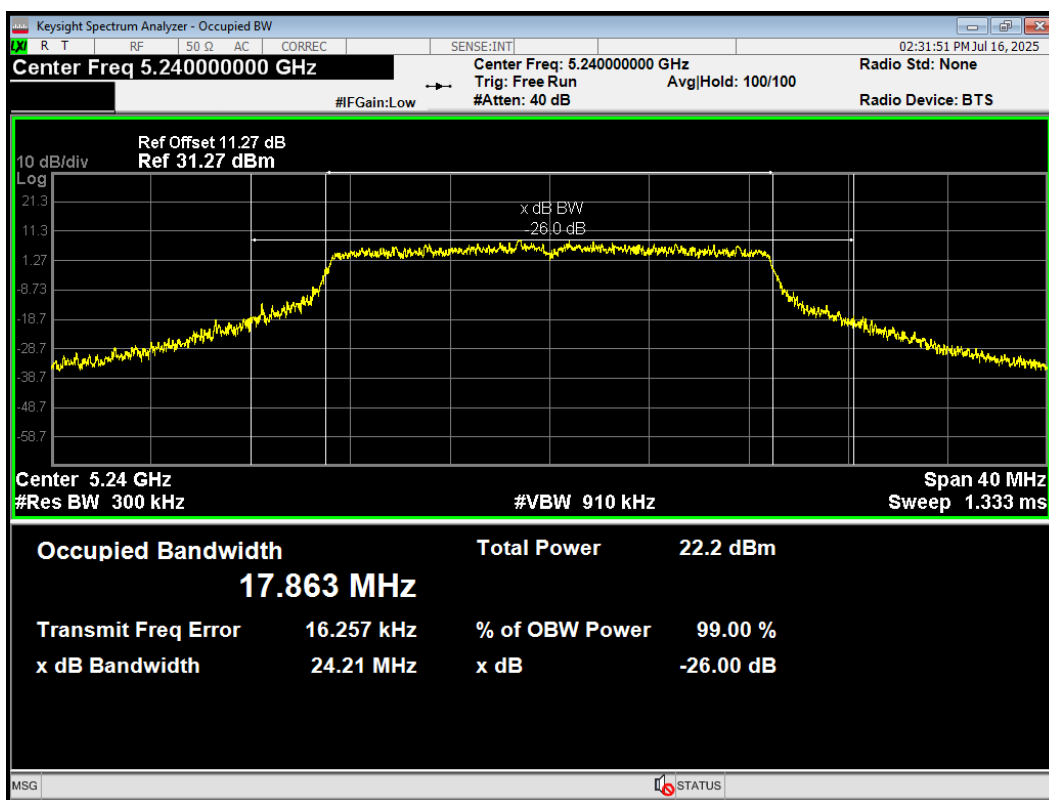
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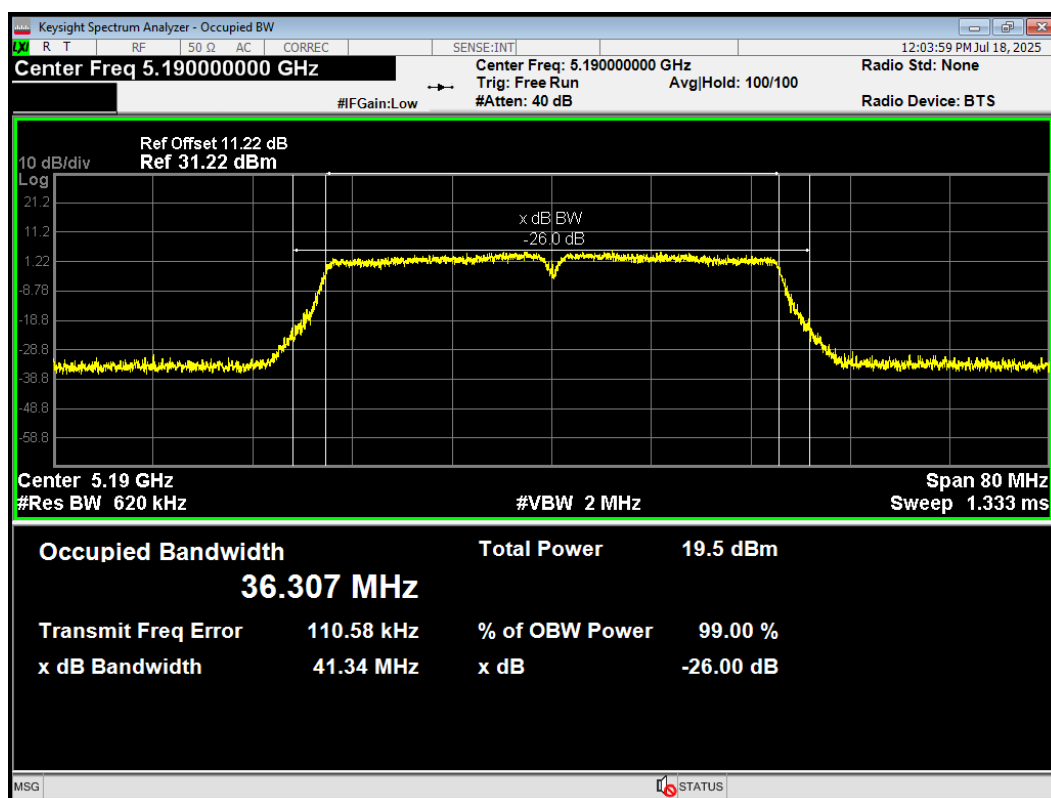
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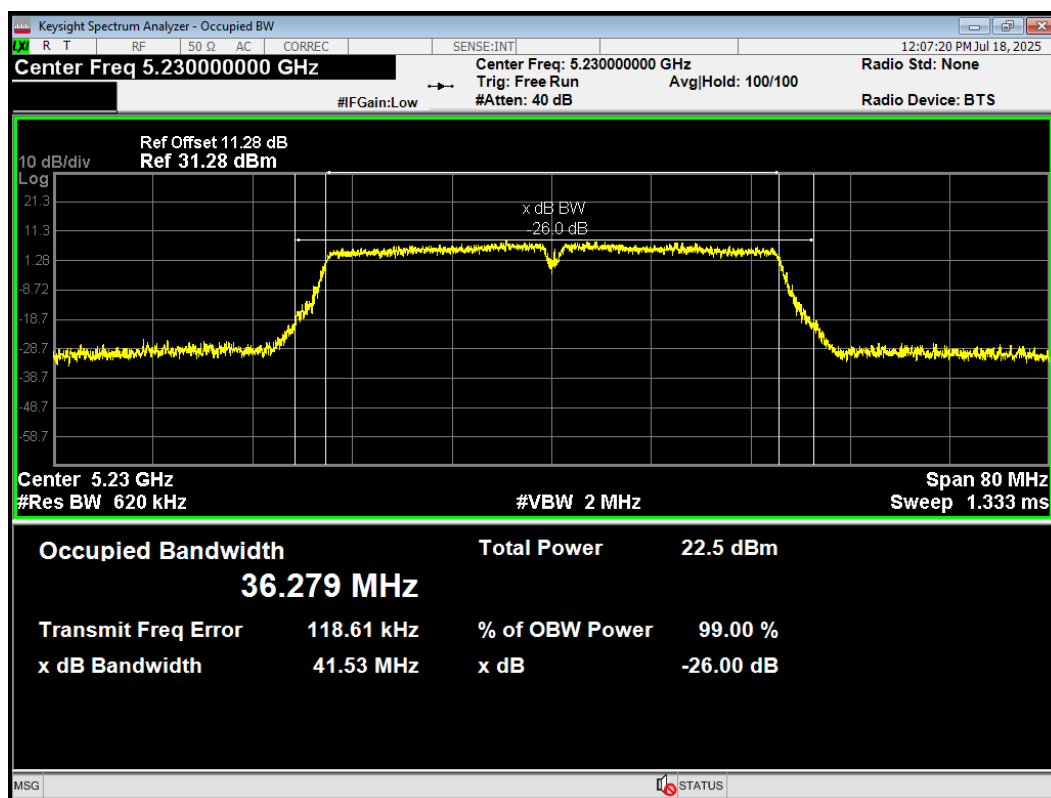
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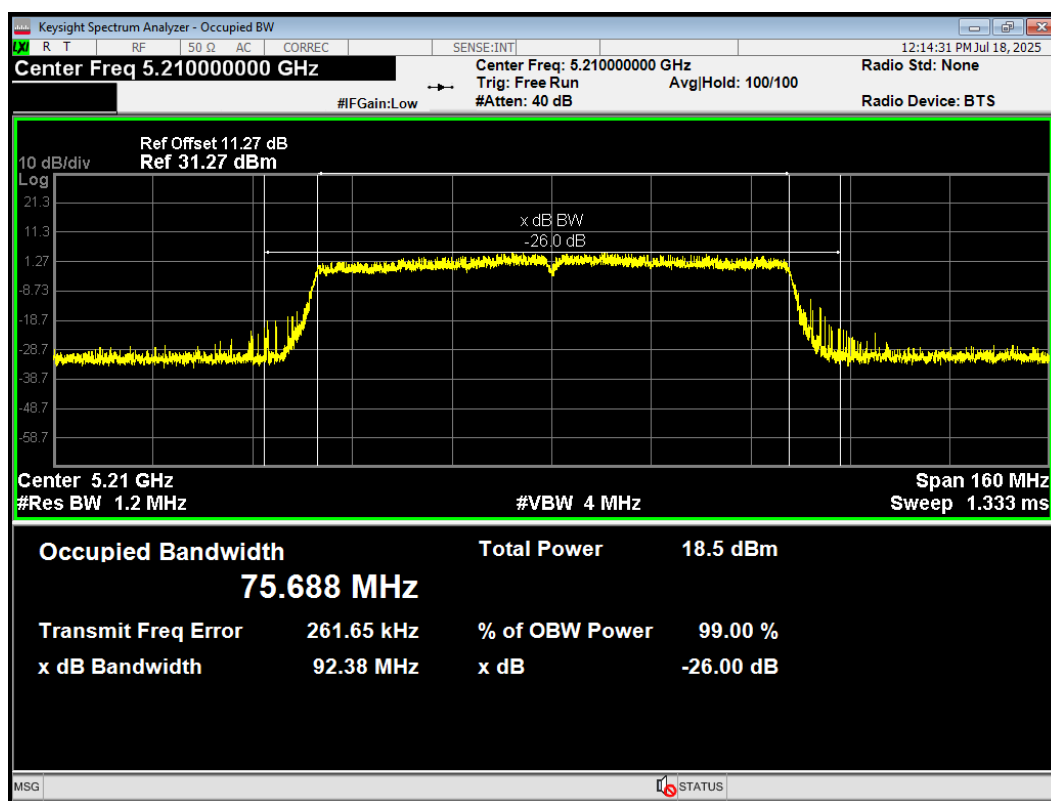
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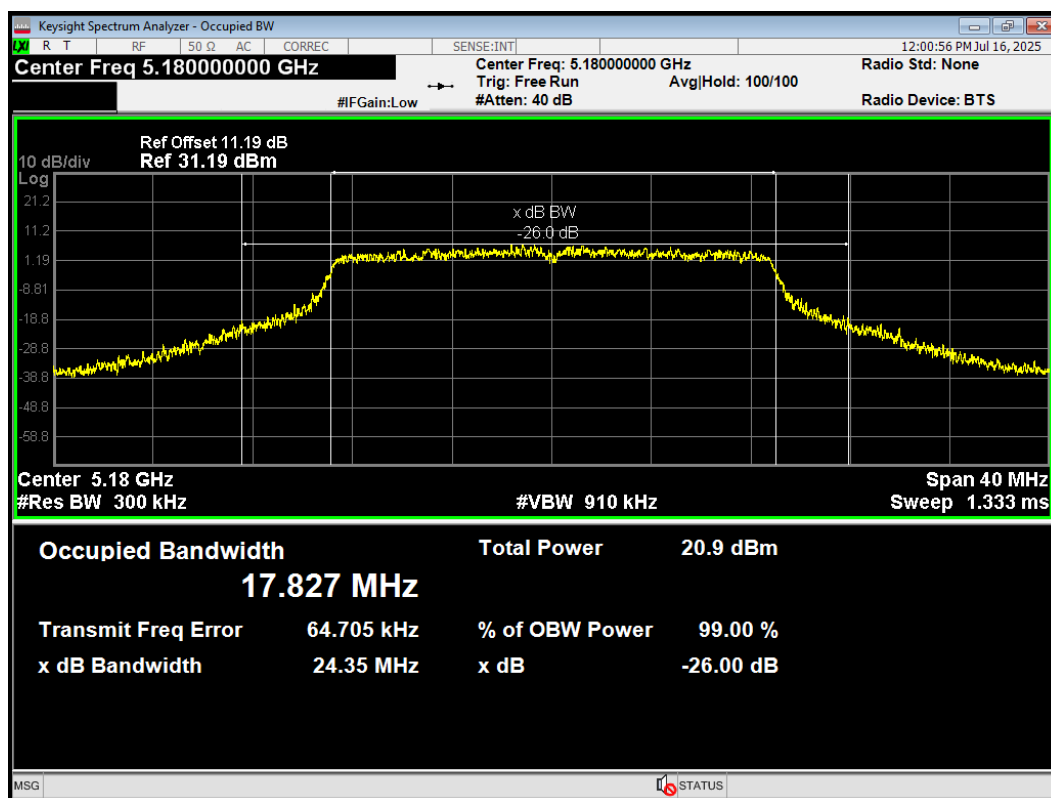
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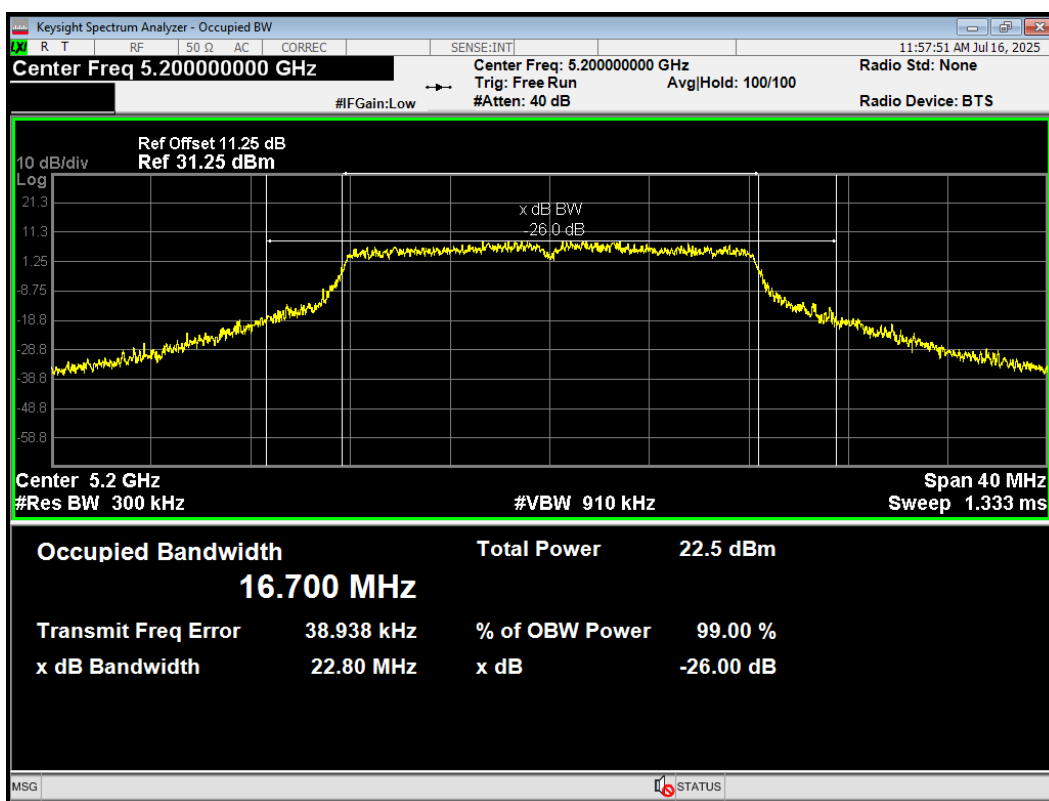
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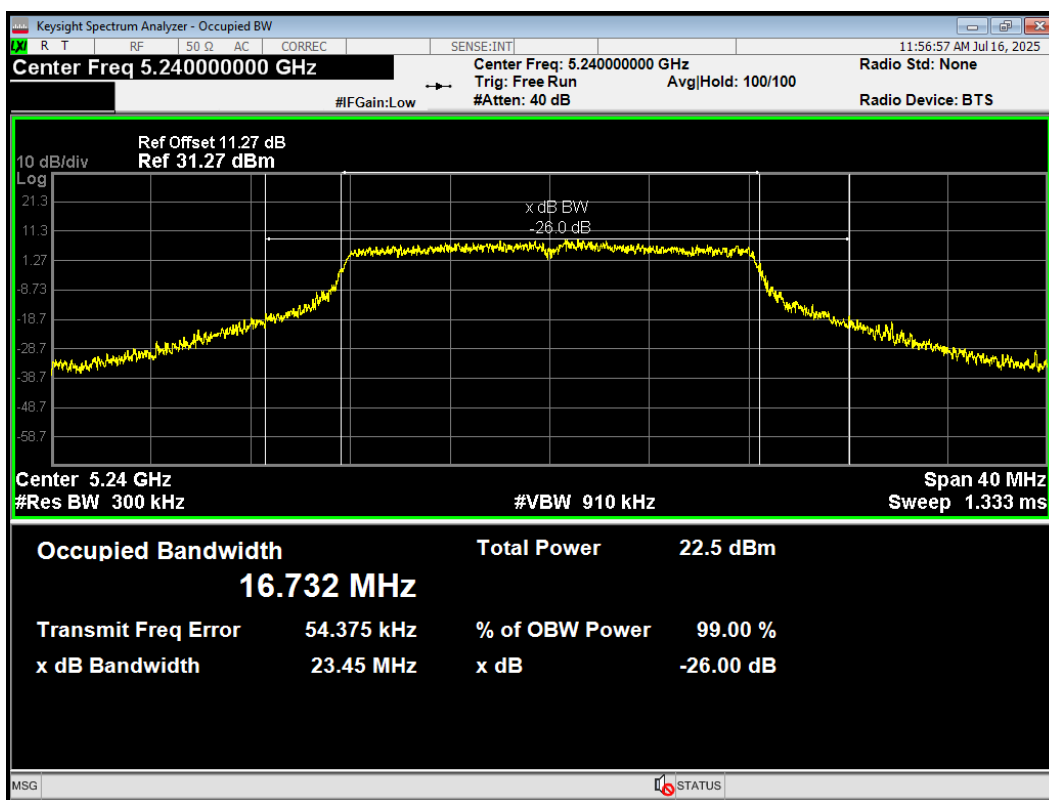
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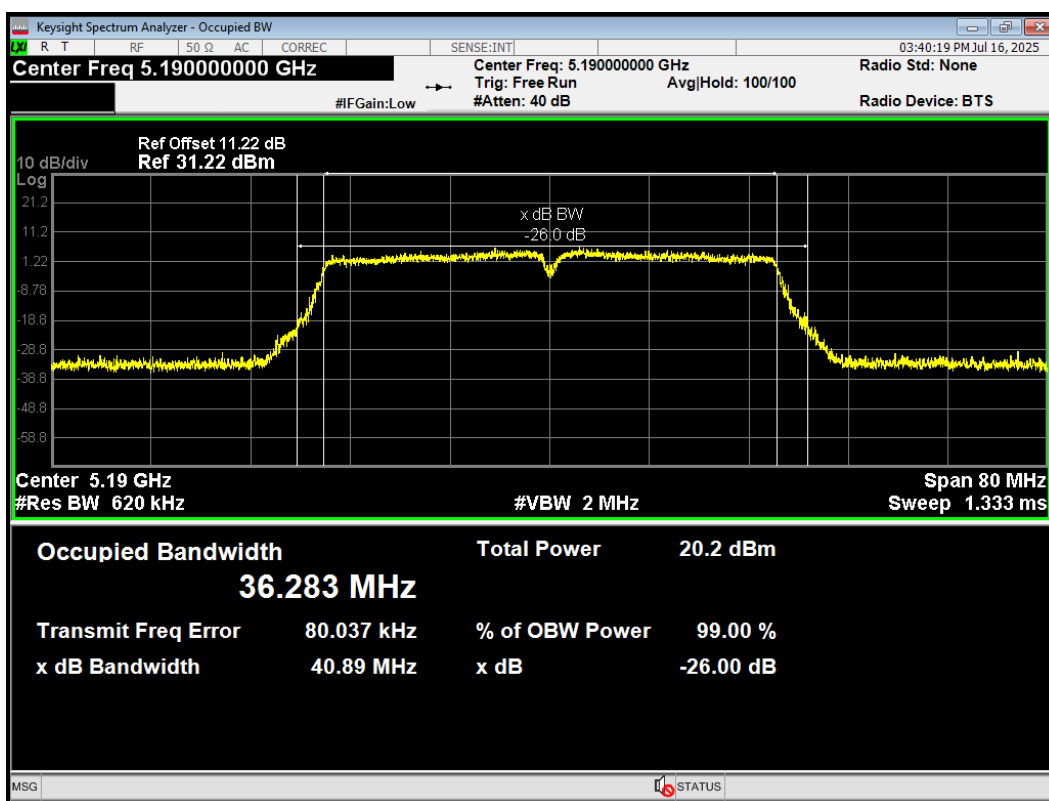
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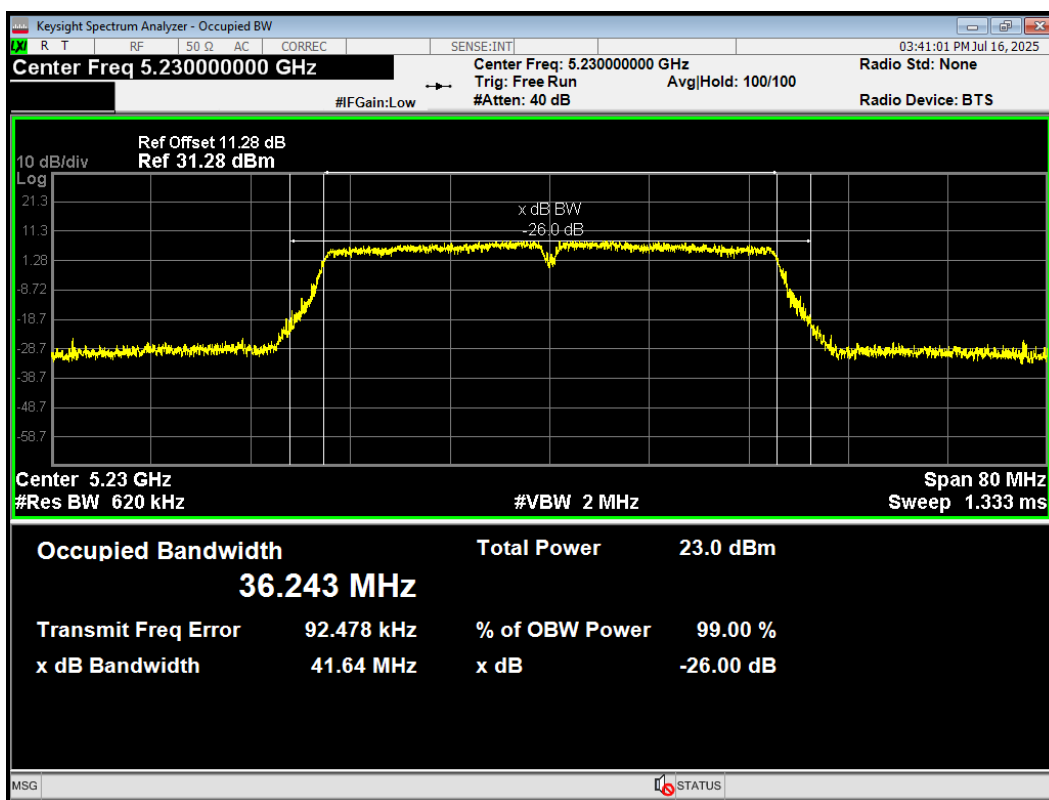
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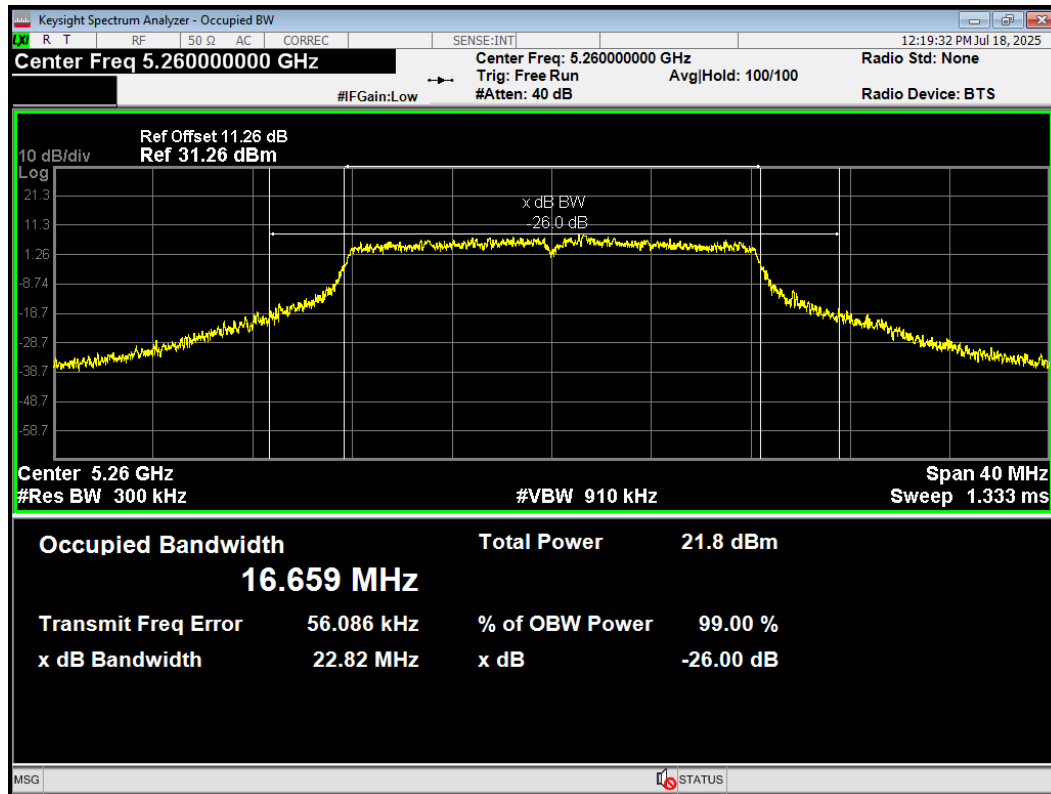
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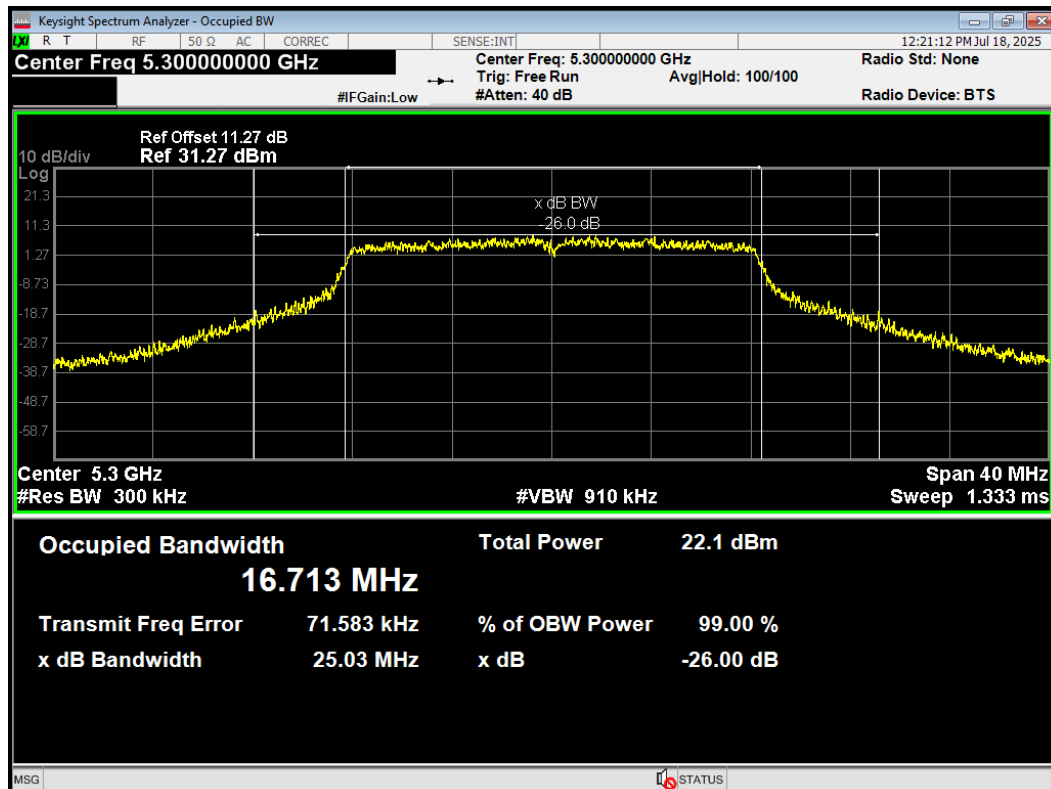
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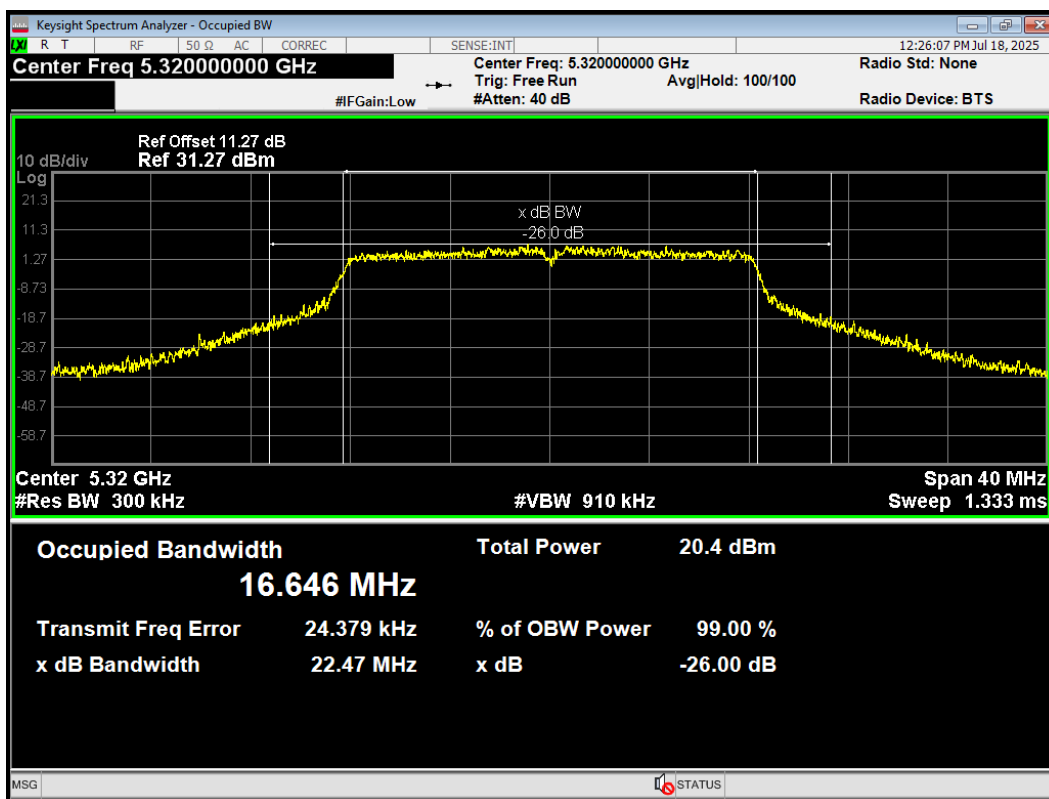
OBW 802.11a 5260MHz



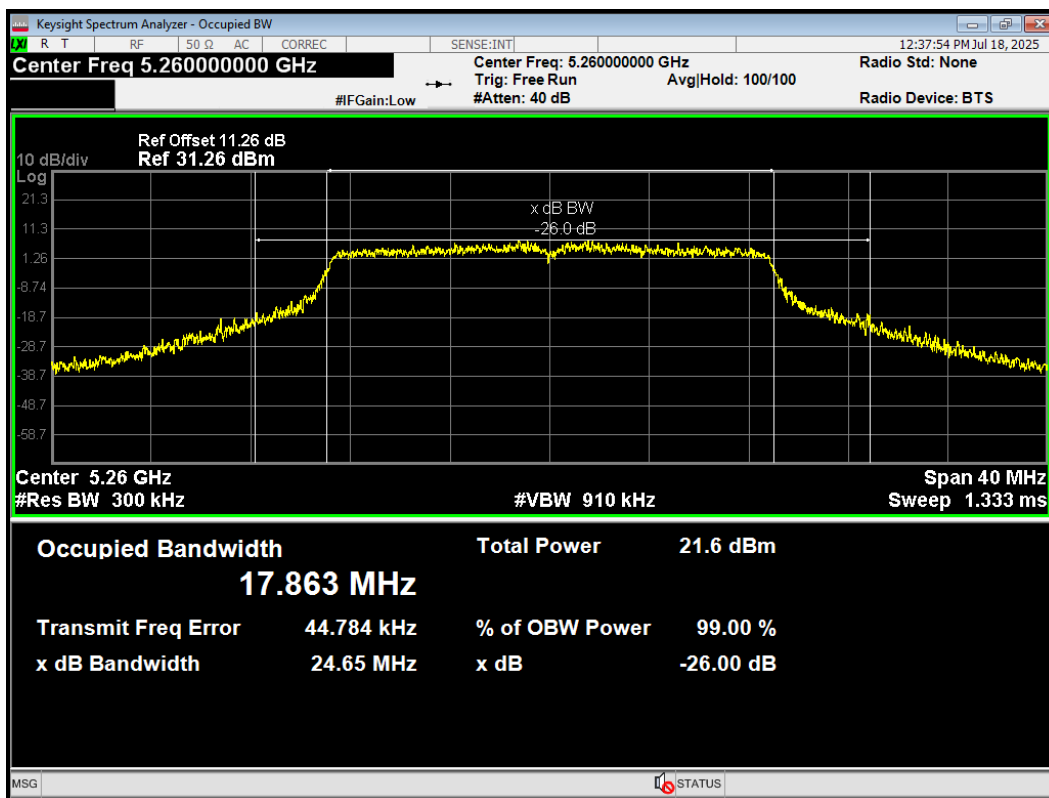
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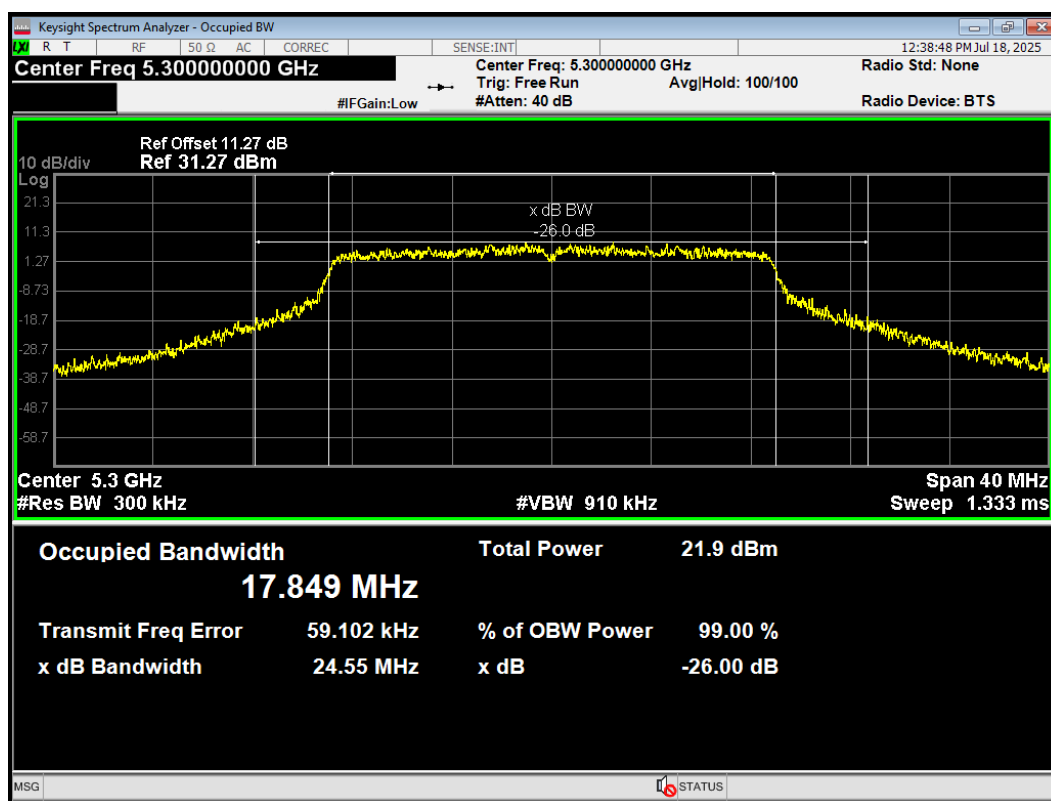
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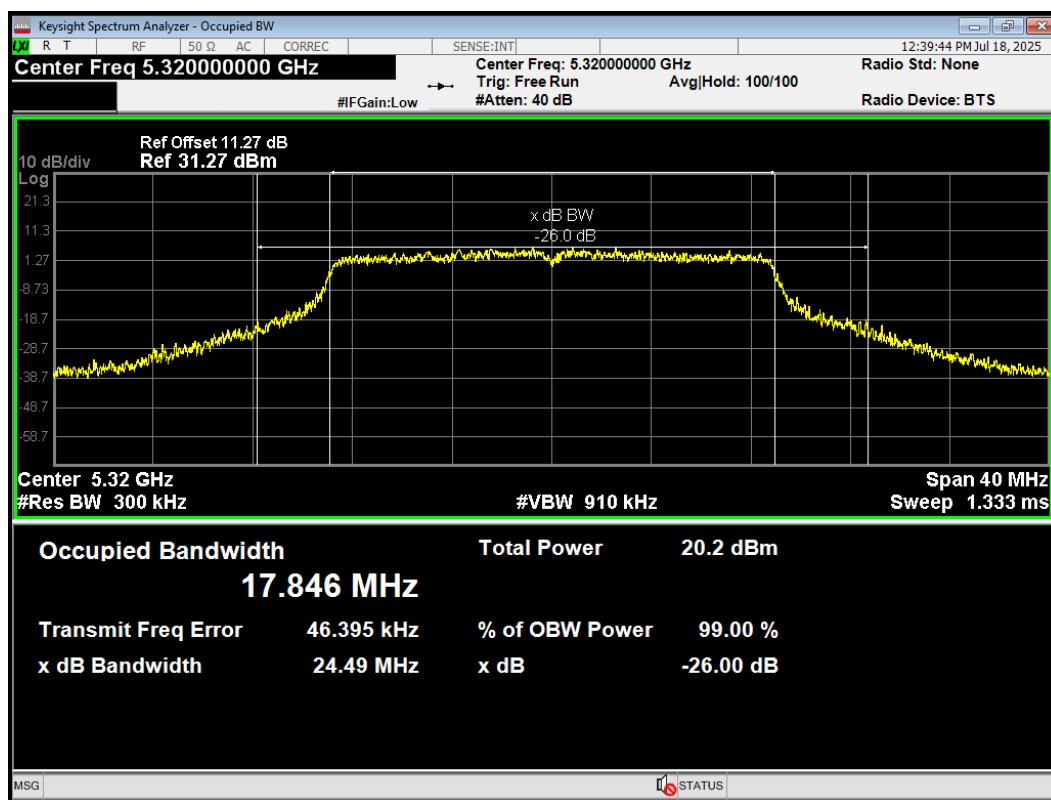
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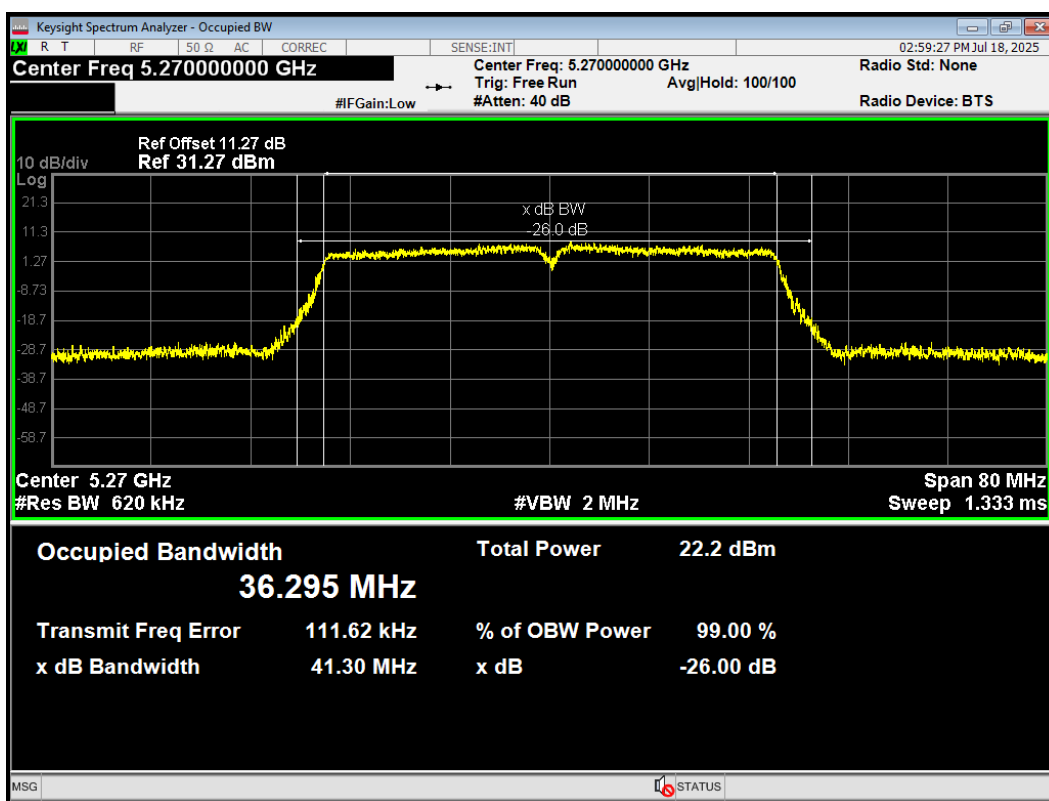
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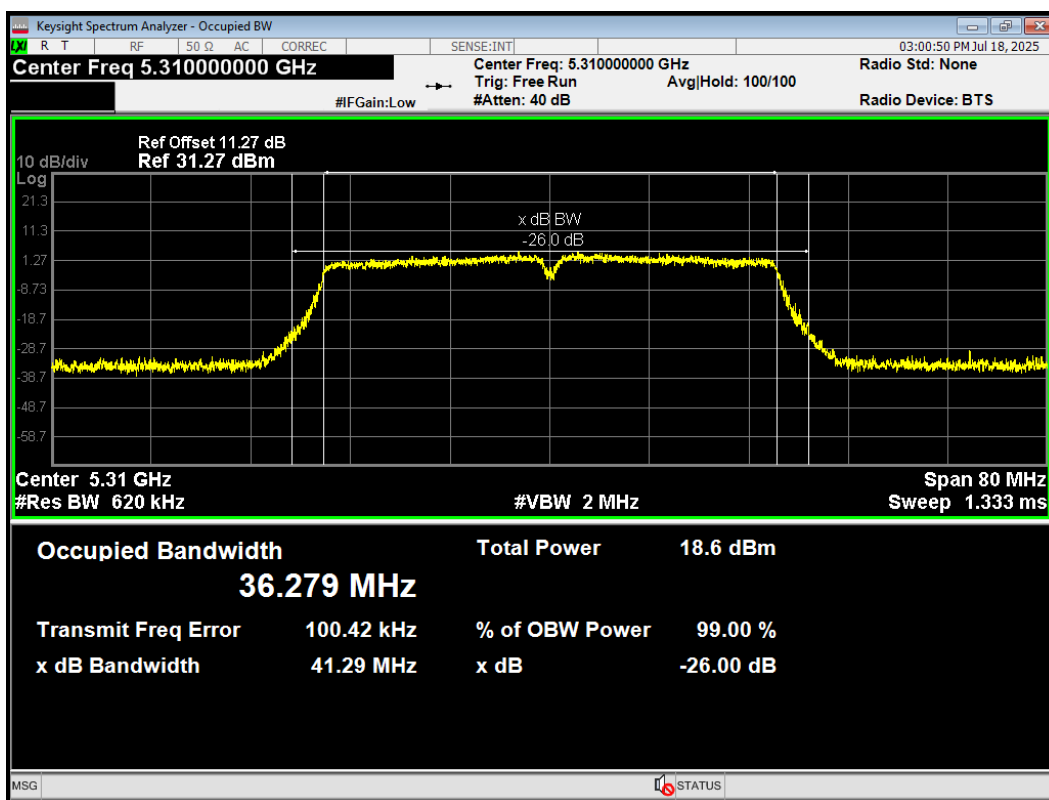
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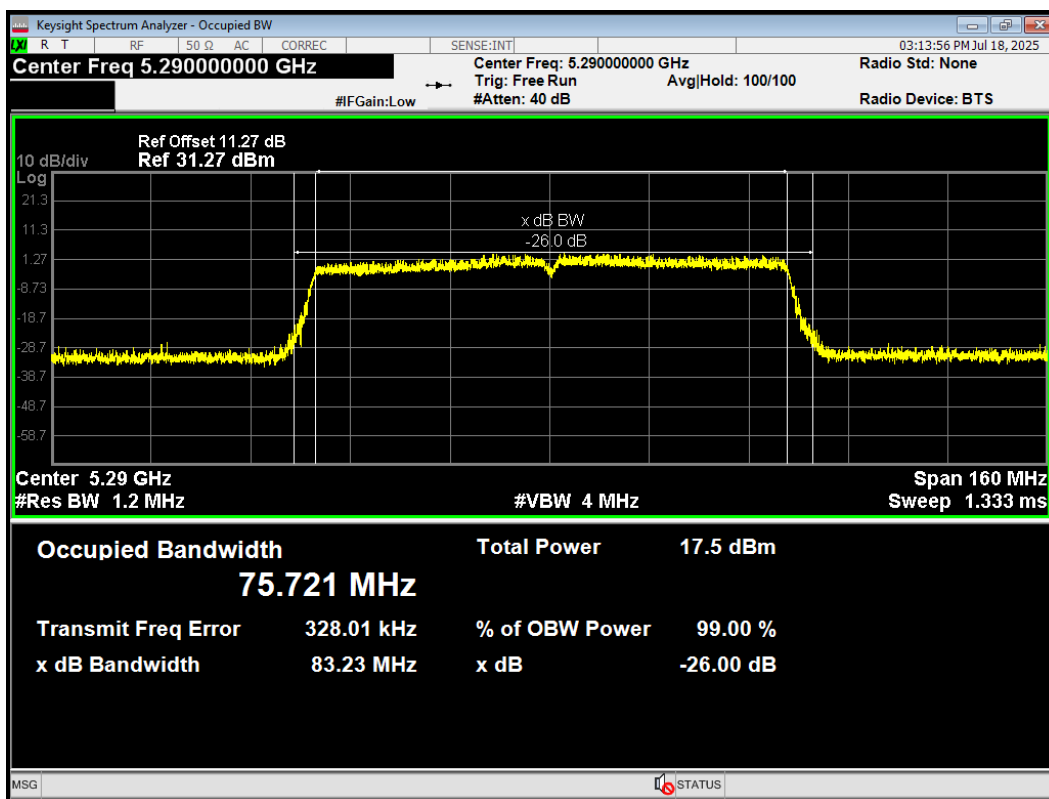
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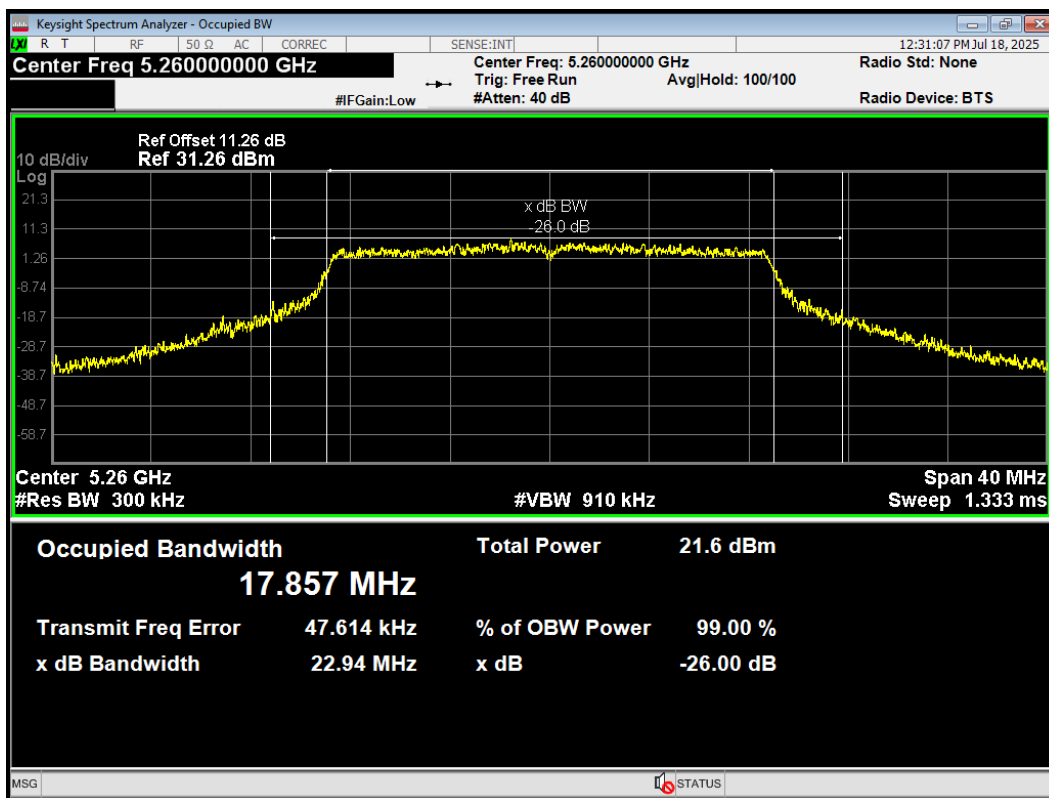
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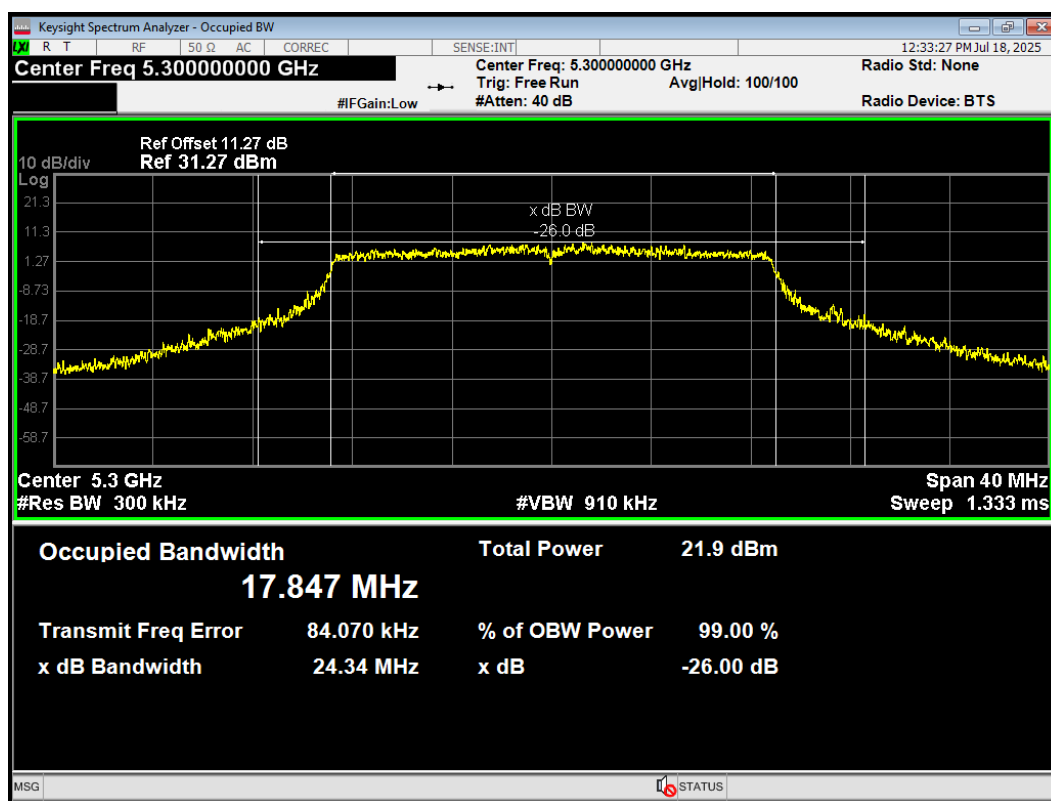
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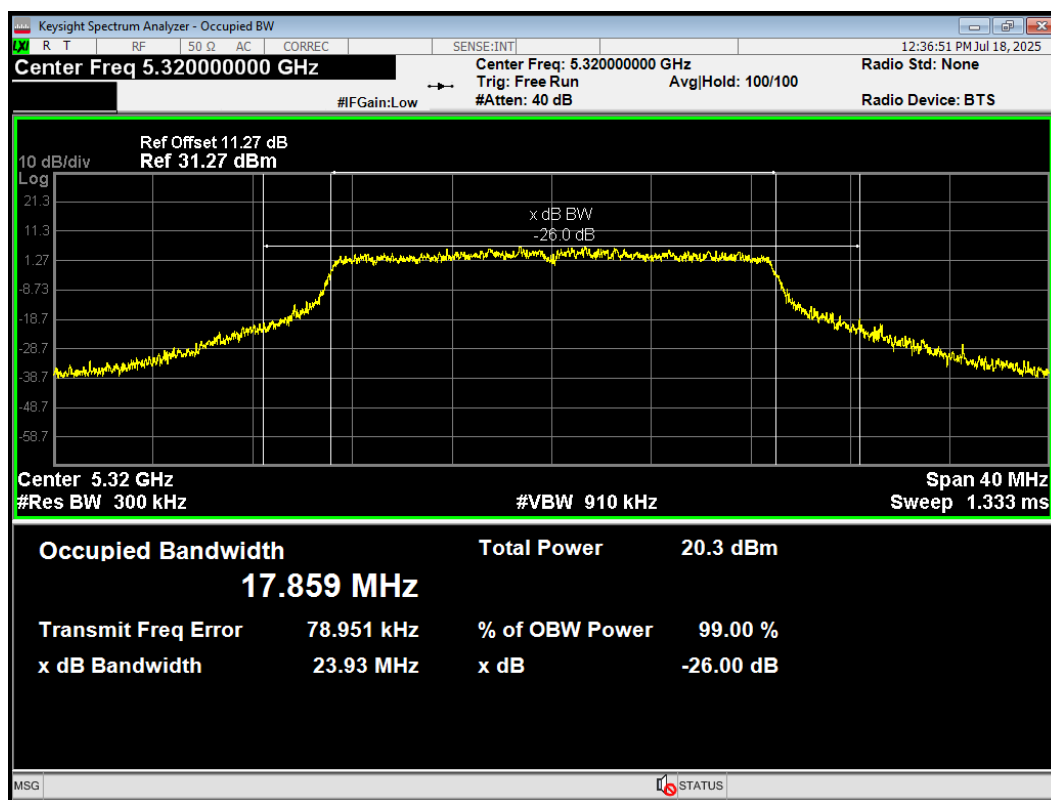
OBW 802.11n(HT20) 5260MHz



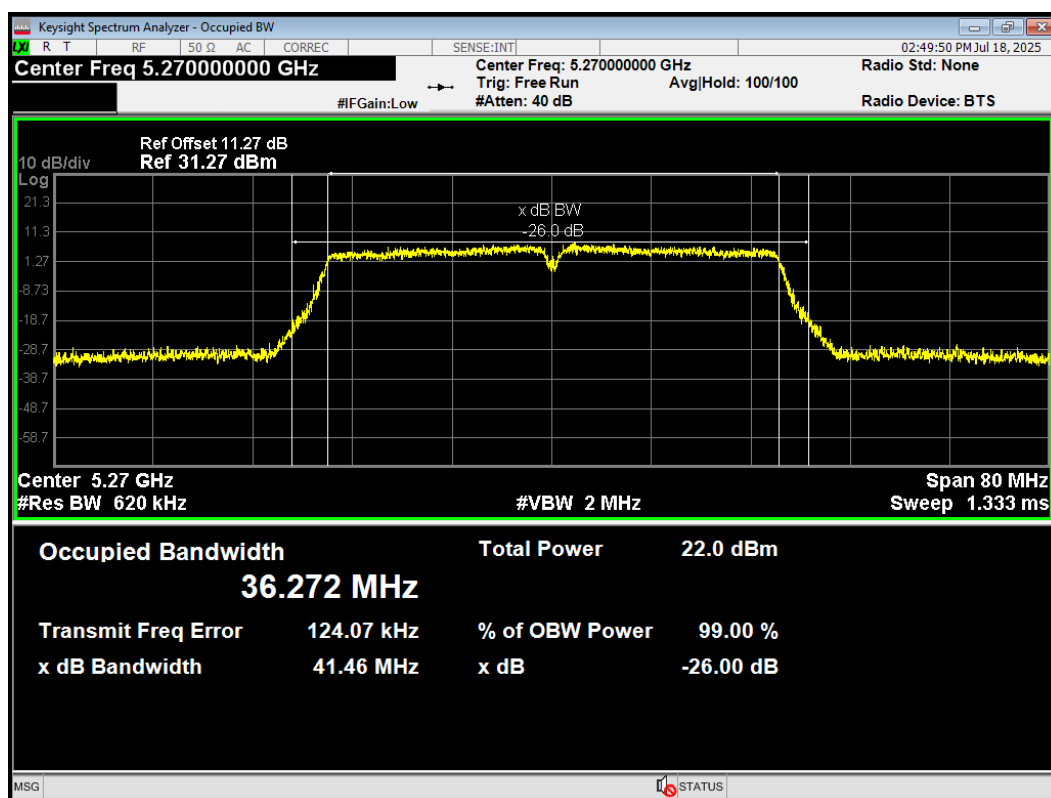
OBW 802.11n(HT20) 5300MHz



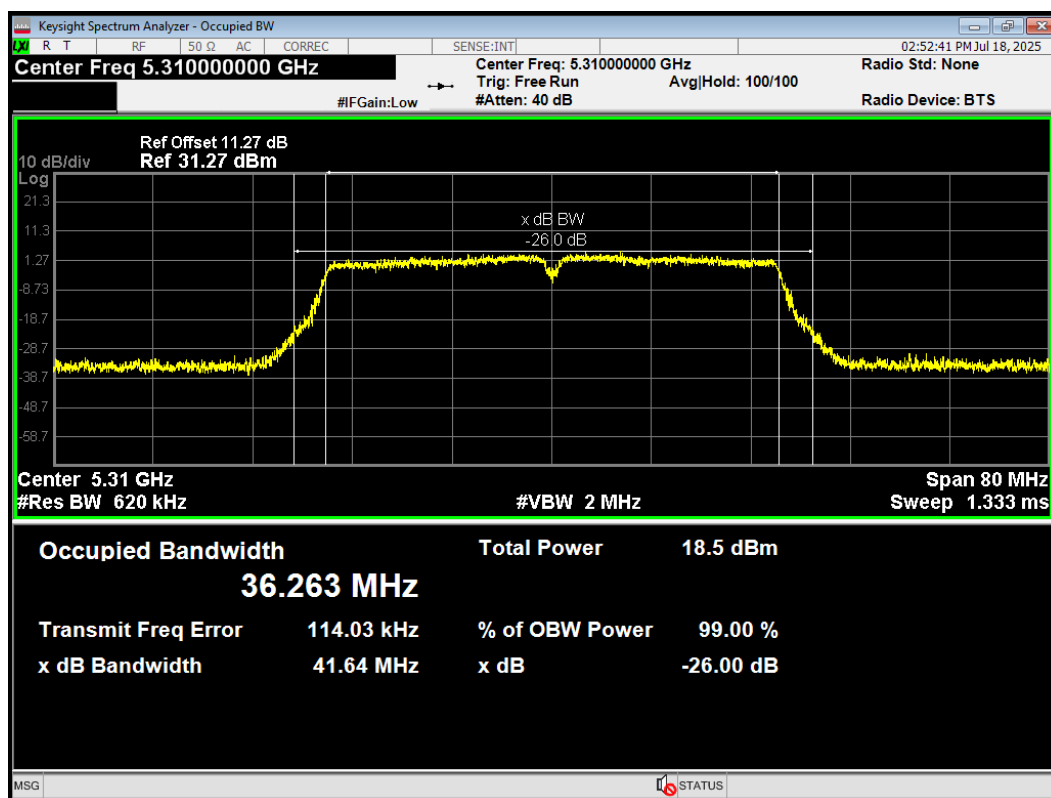
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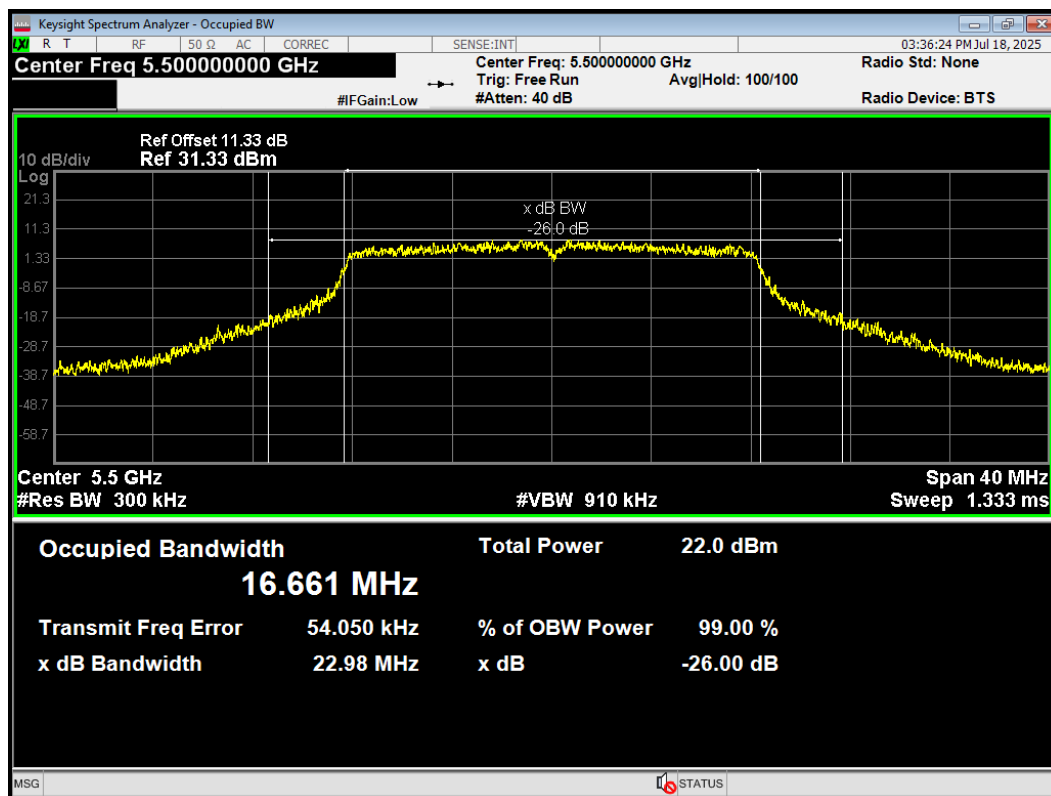
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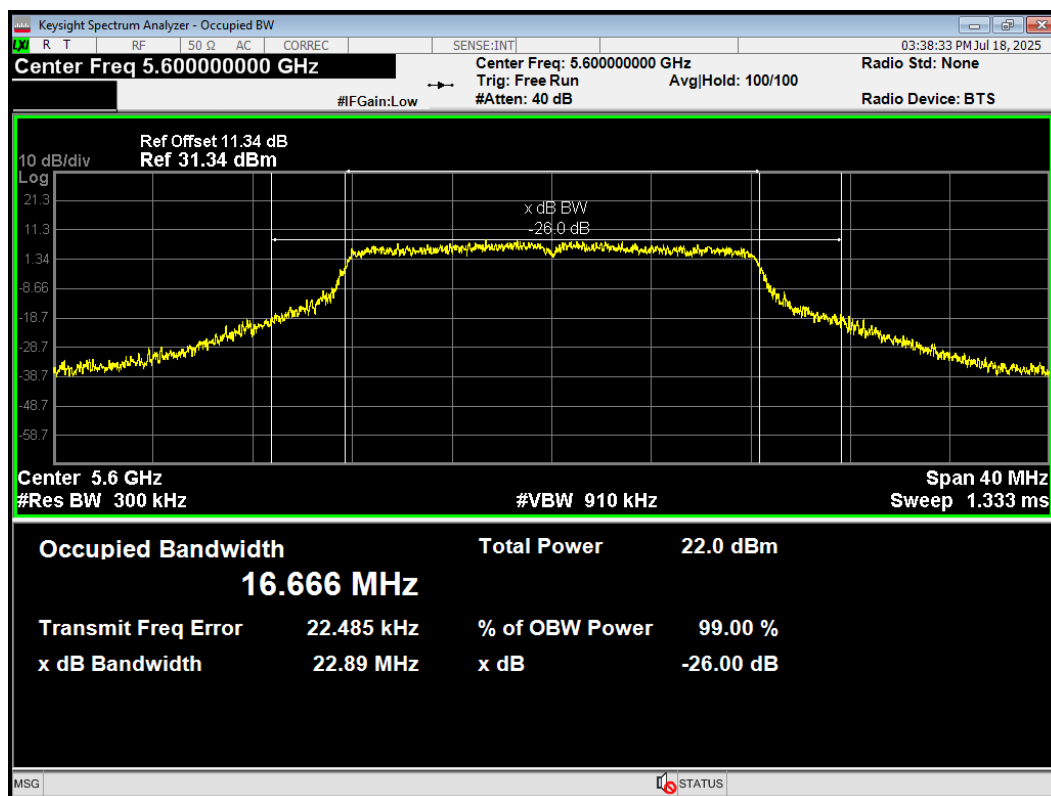
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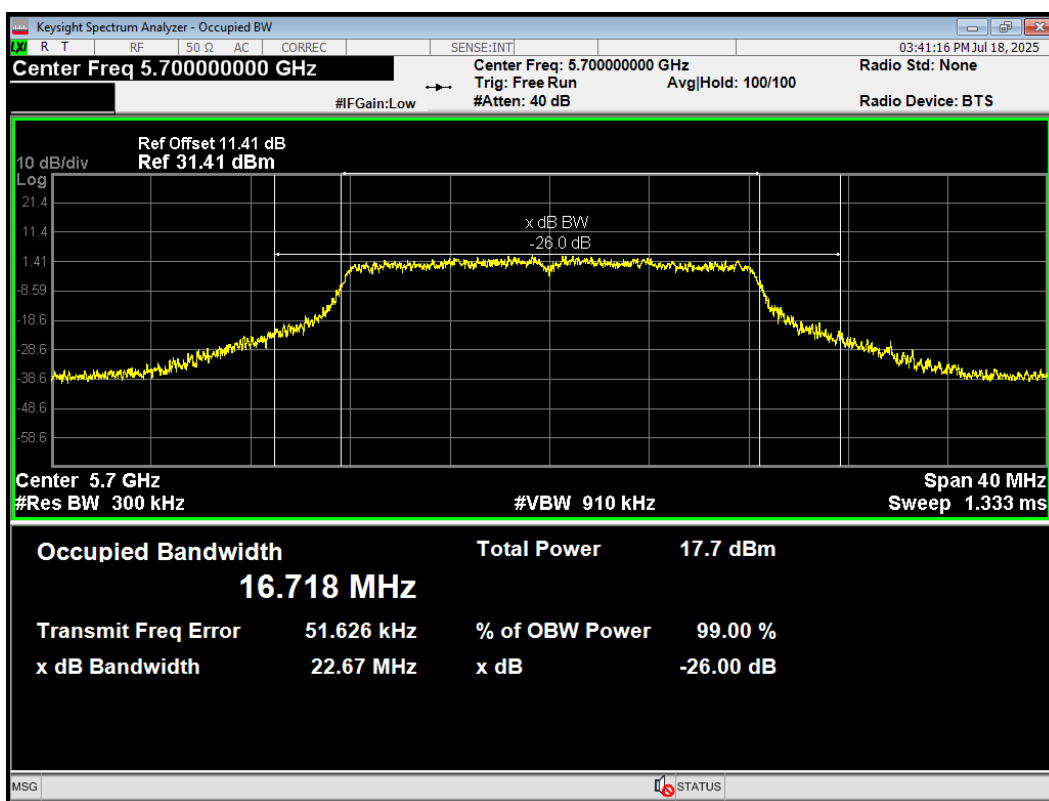
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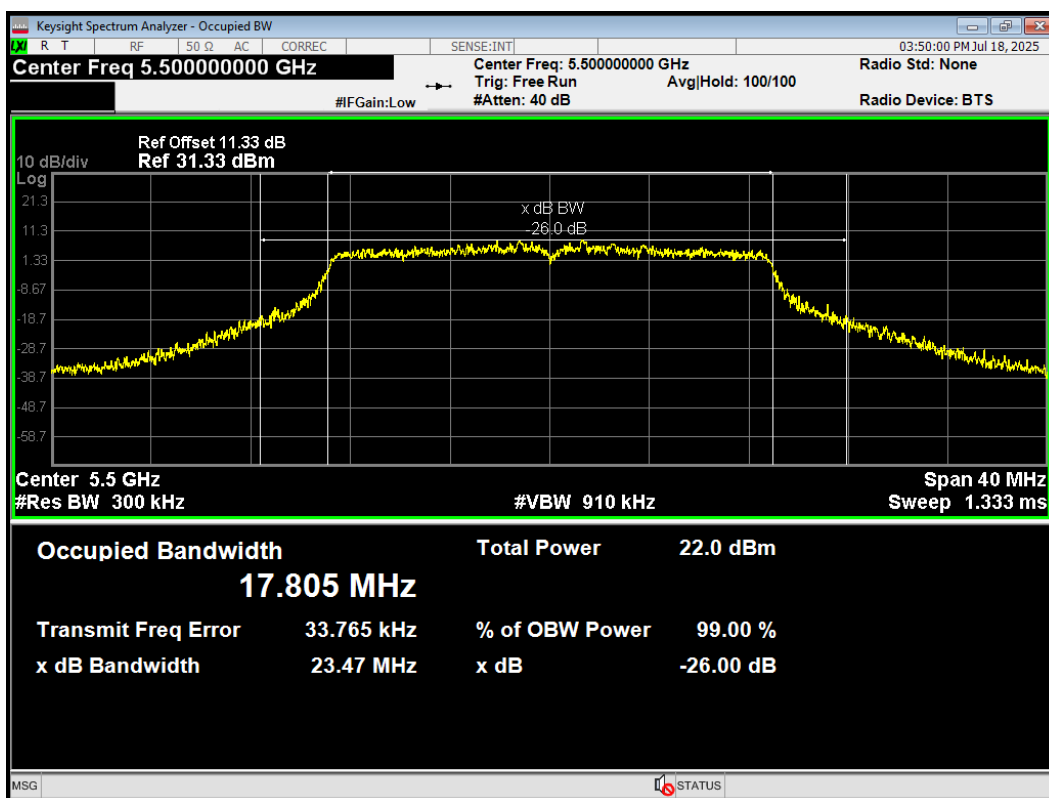
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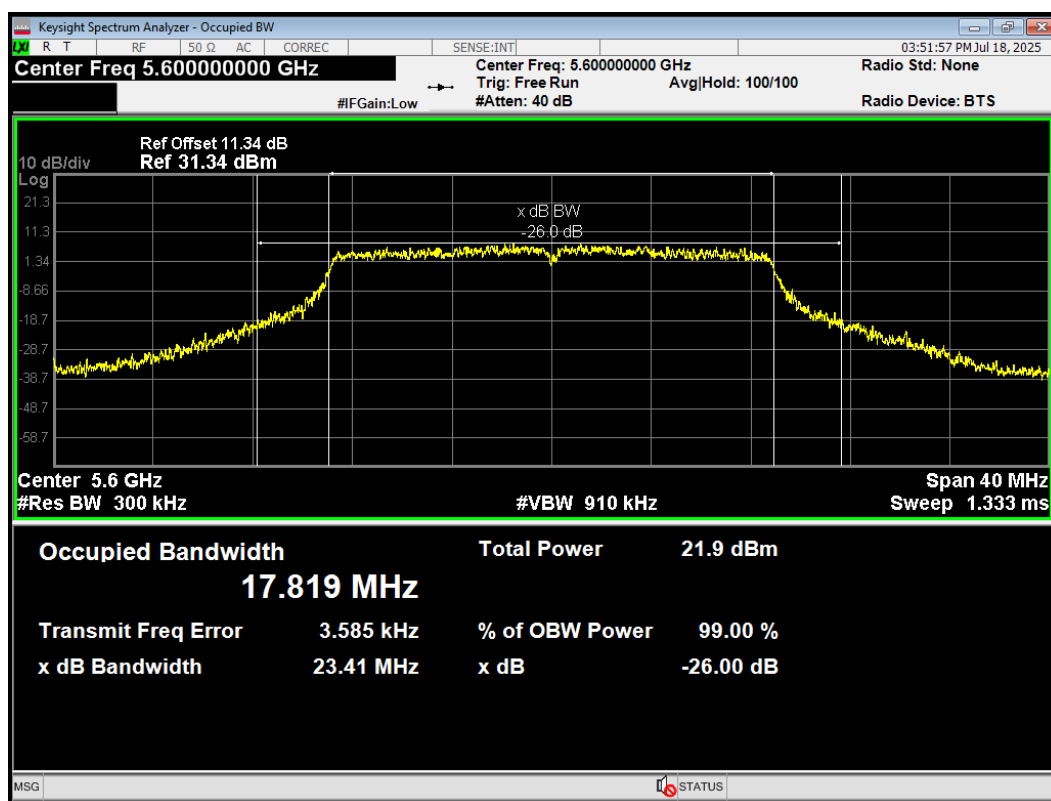
OBW 802.11a 5700MHz



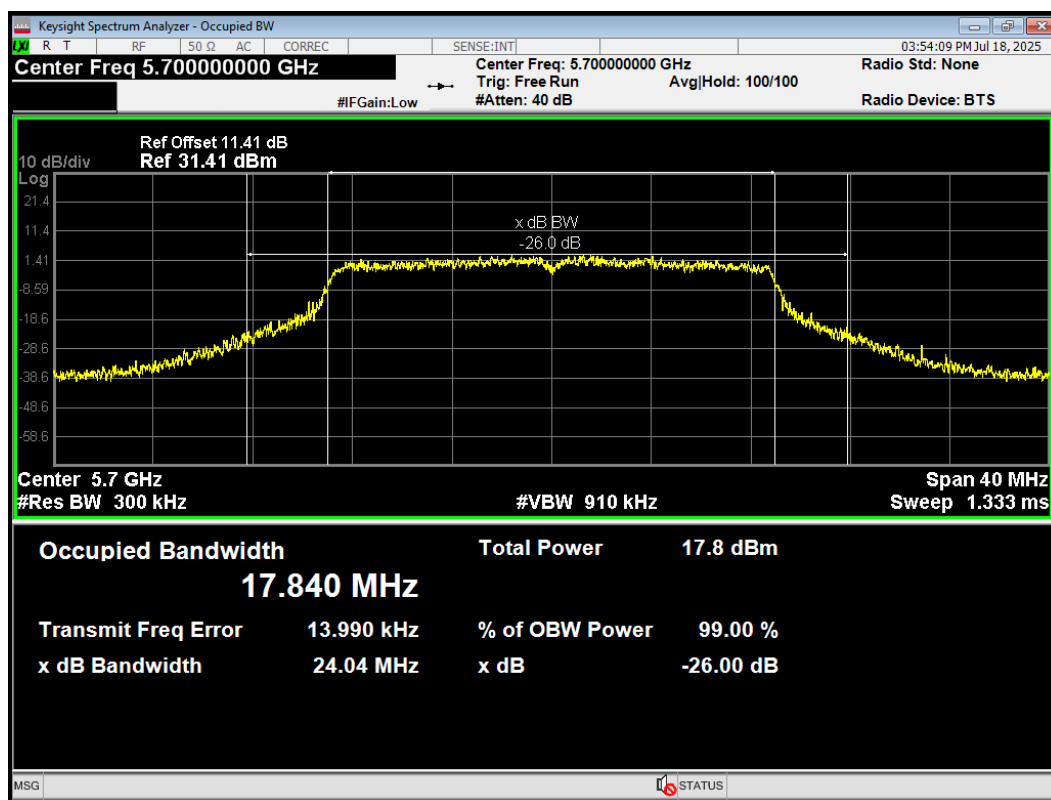
OBW 802.11ac(VHT20) 5500MHz



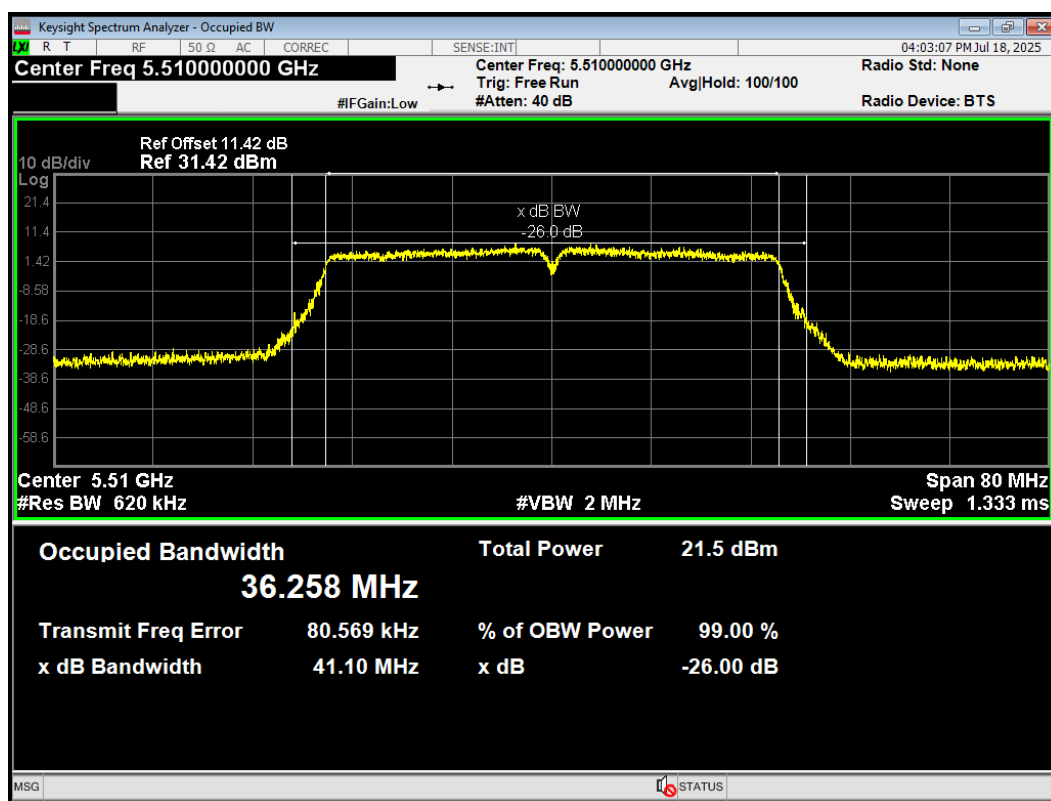
OBW 802.11ac(VHT20) 5600MHz



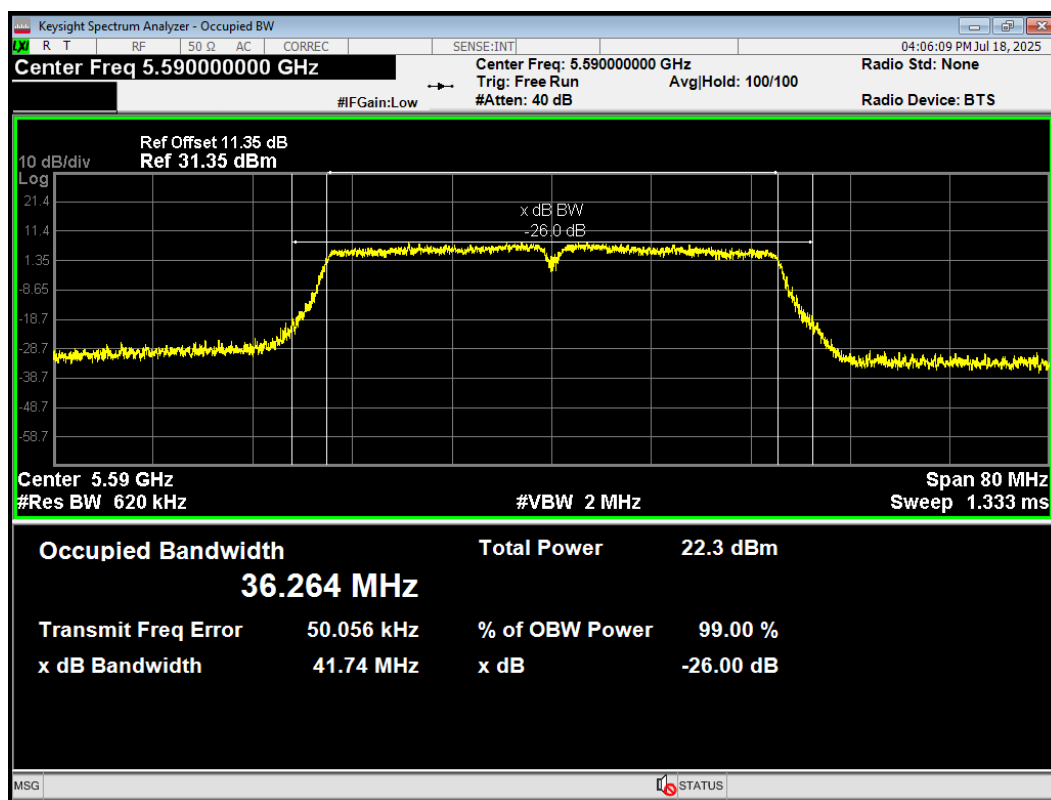
OBW 802.11ac(VHT20) 5700MHz



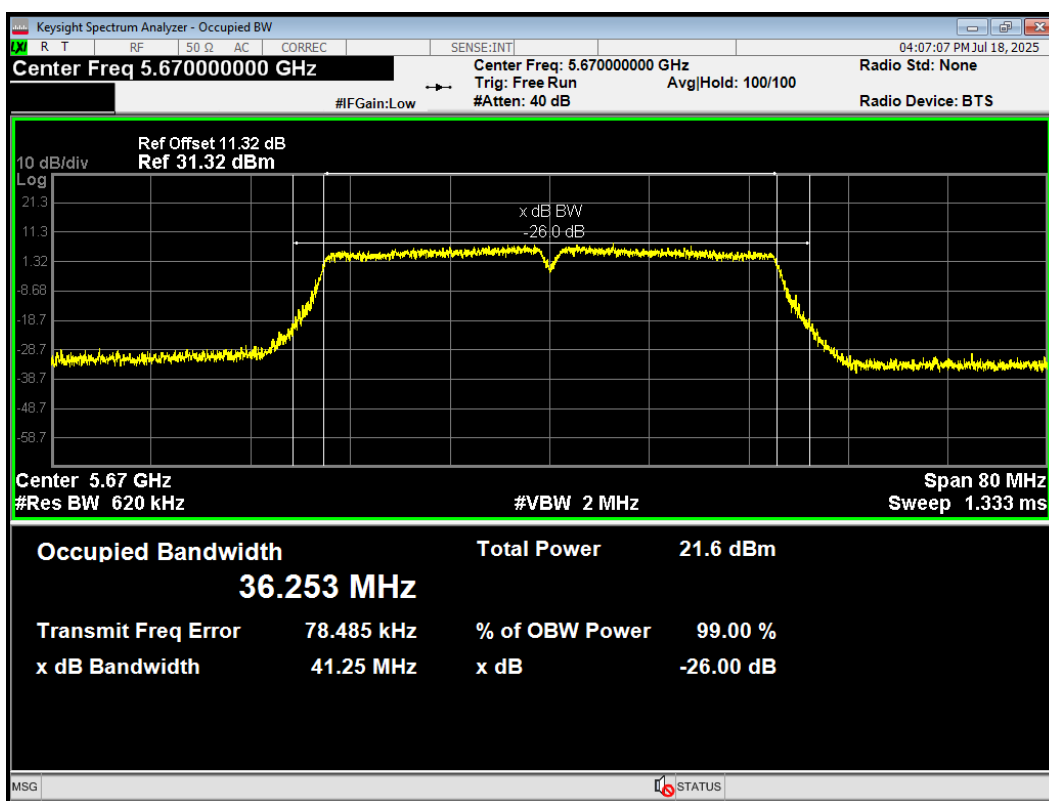
OBW 802.11ac(VHT40) 5510MHz



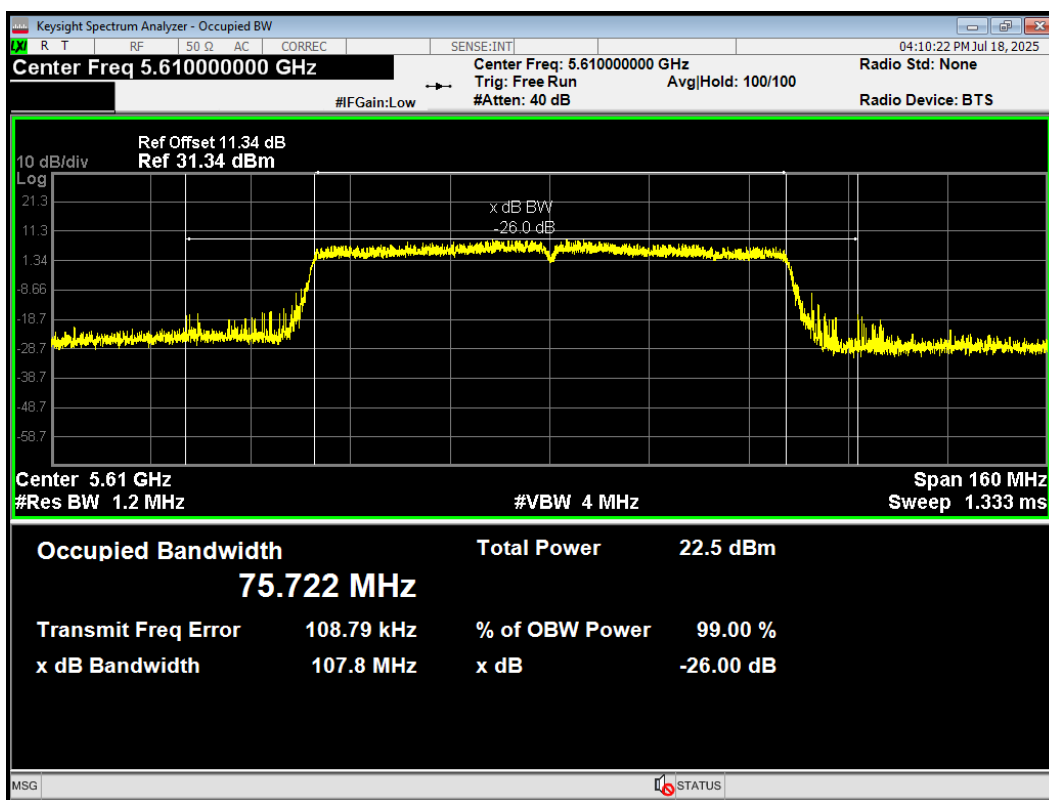
OBW 802.11ac(VHT40) 5590MHz



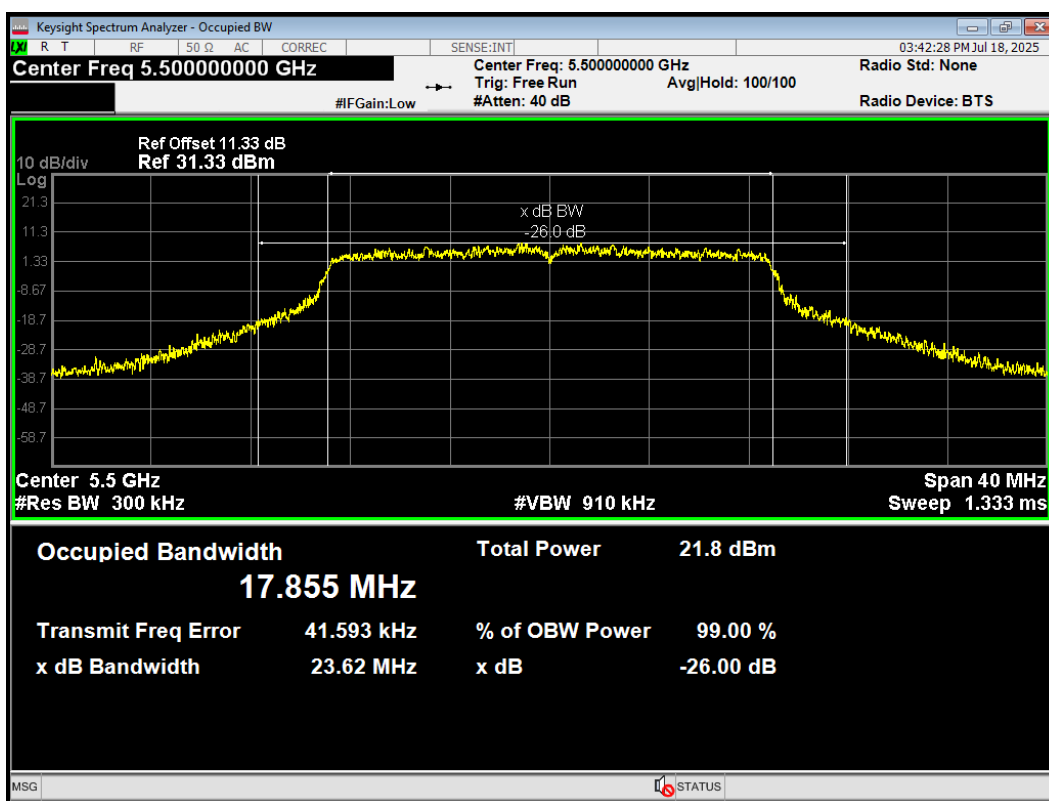
OBW 802.11ac(VHT40) 5670MHz



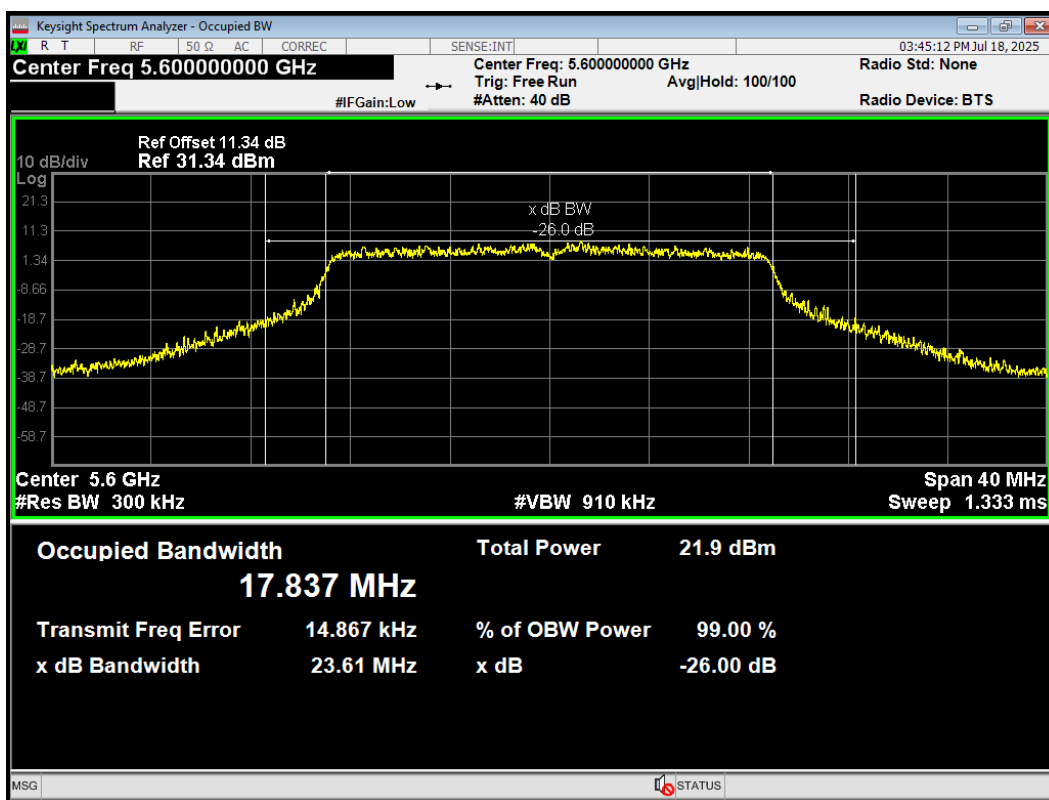
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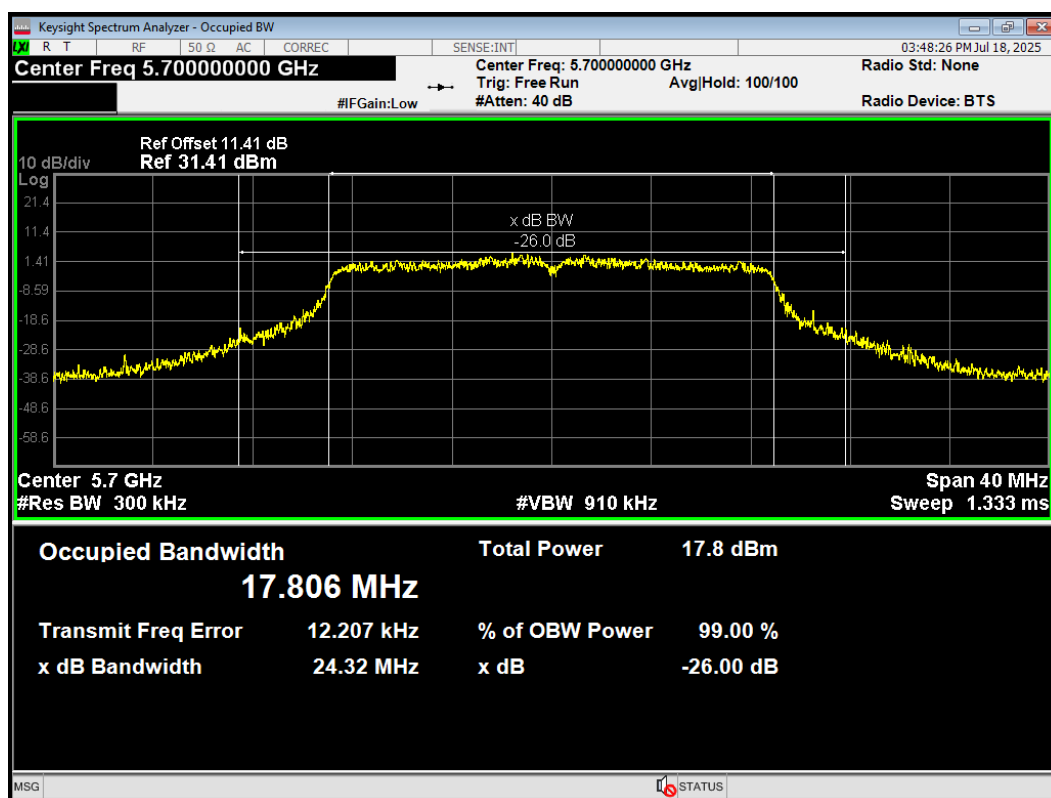
OBW 802.11n(HT20) 5500MHz



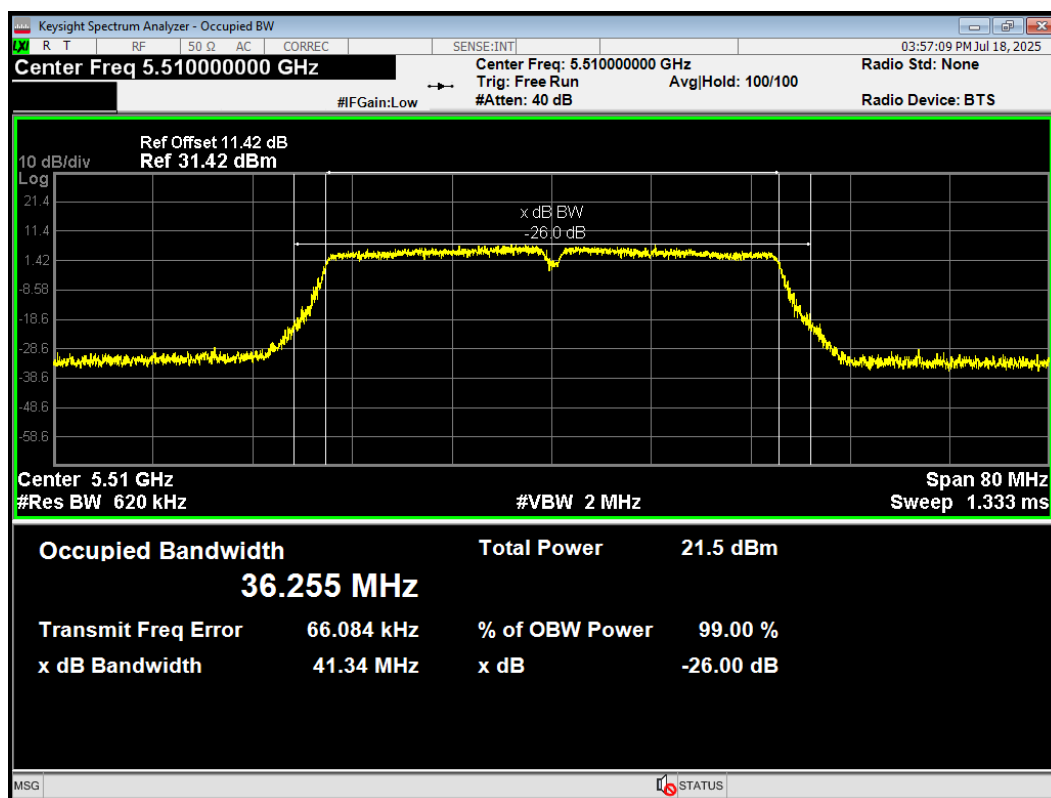
OBW 802.11n(HT20) 5600MHz



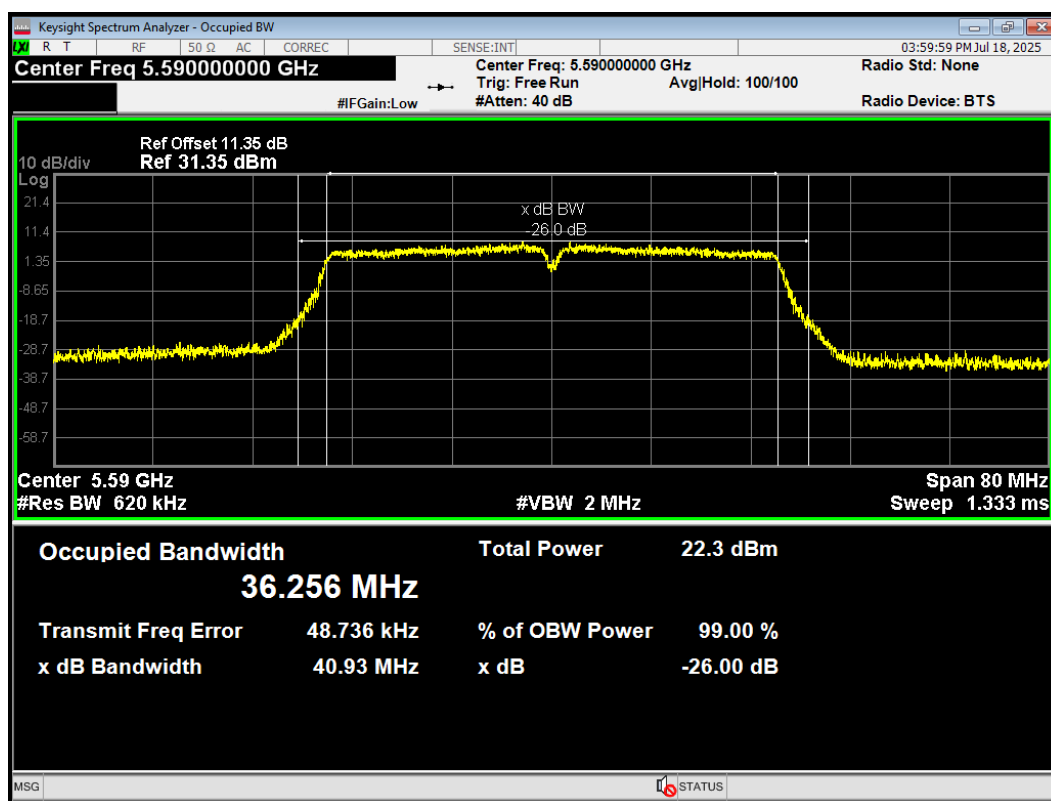
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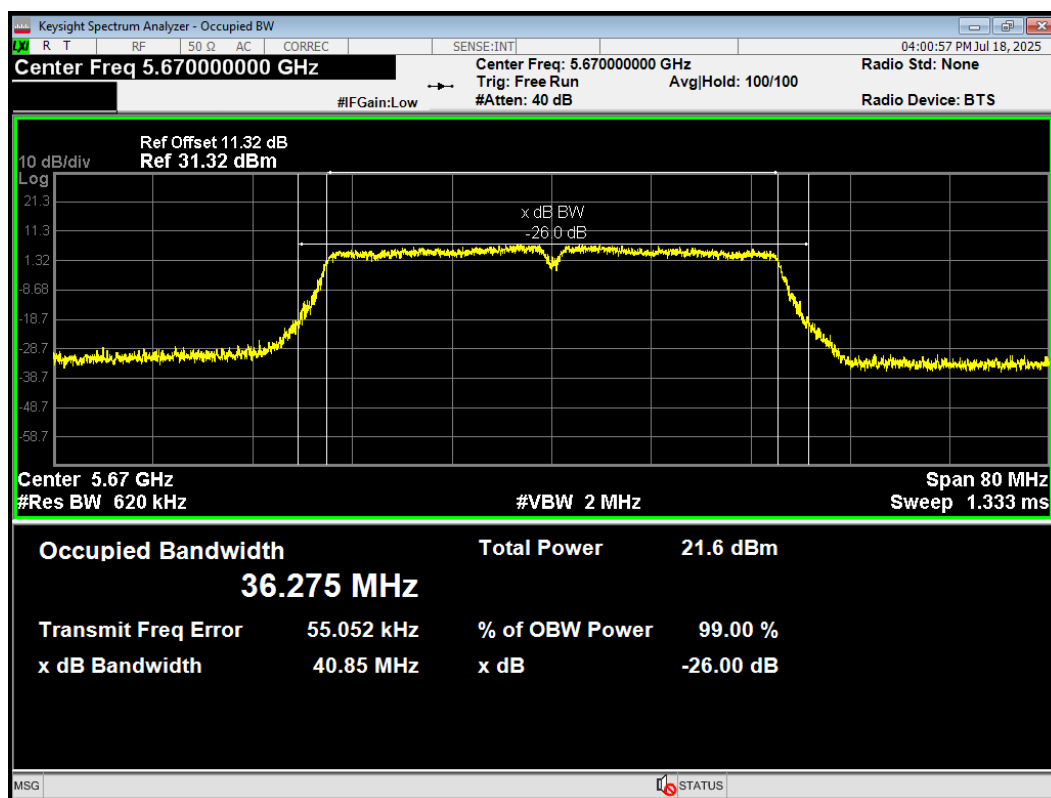
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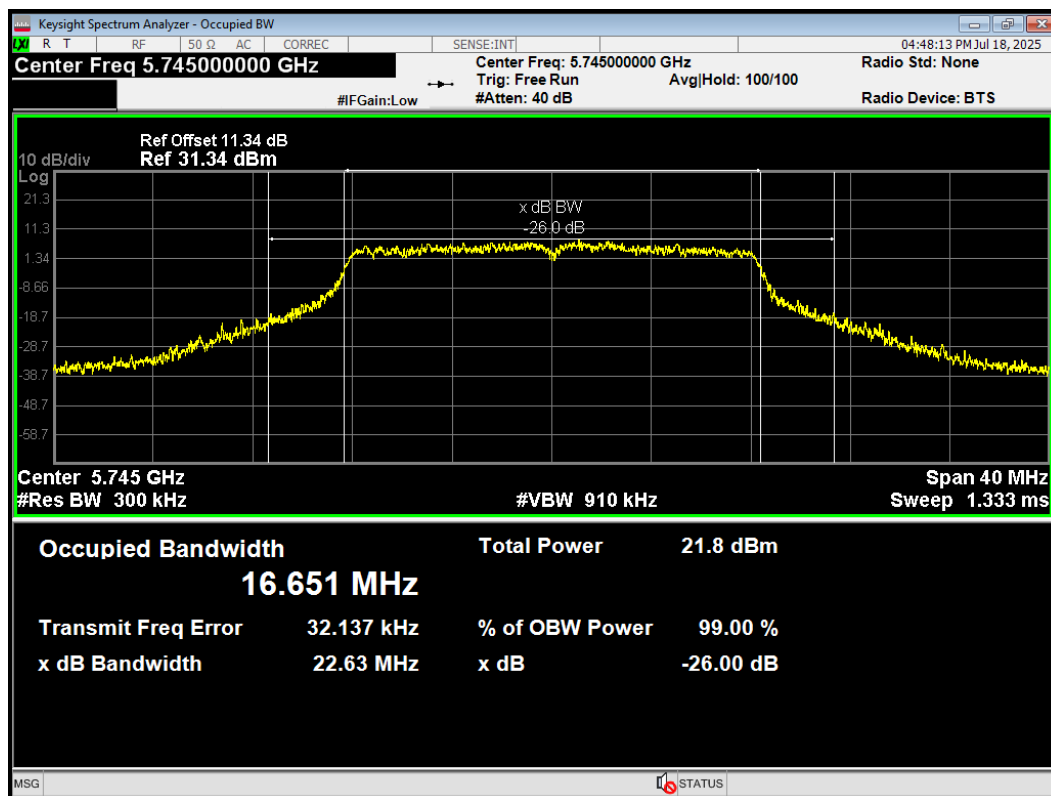
OBW 802.11n(HT40) 5590MHz



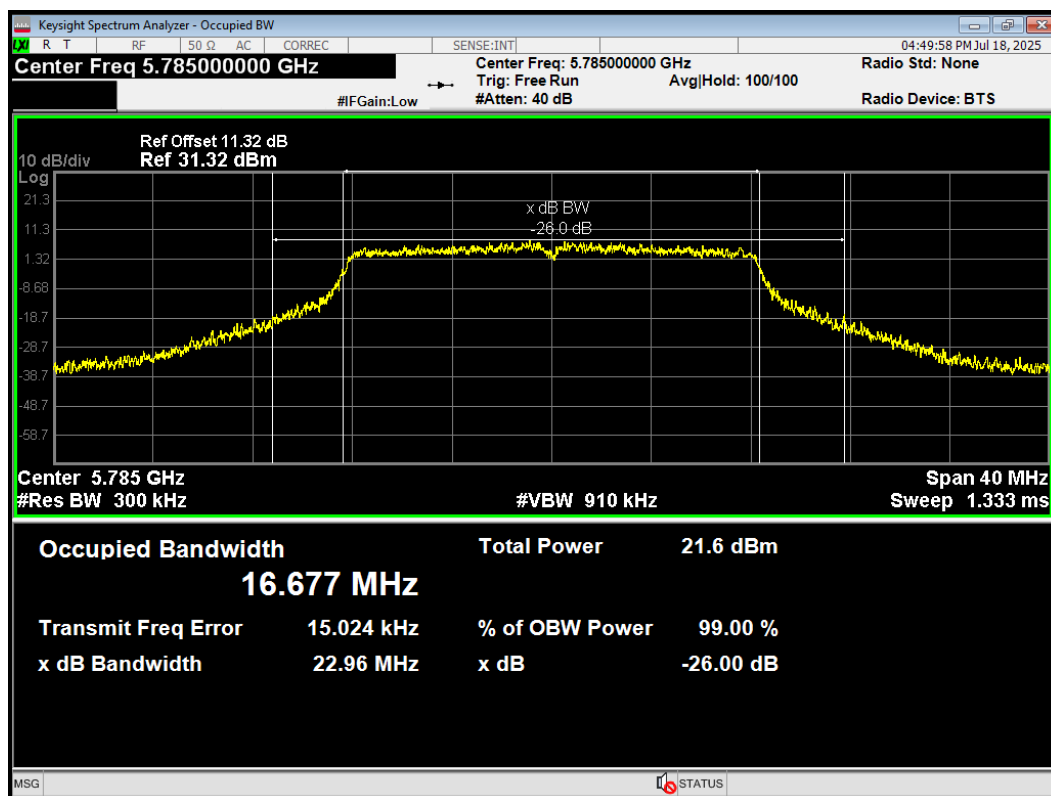
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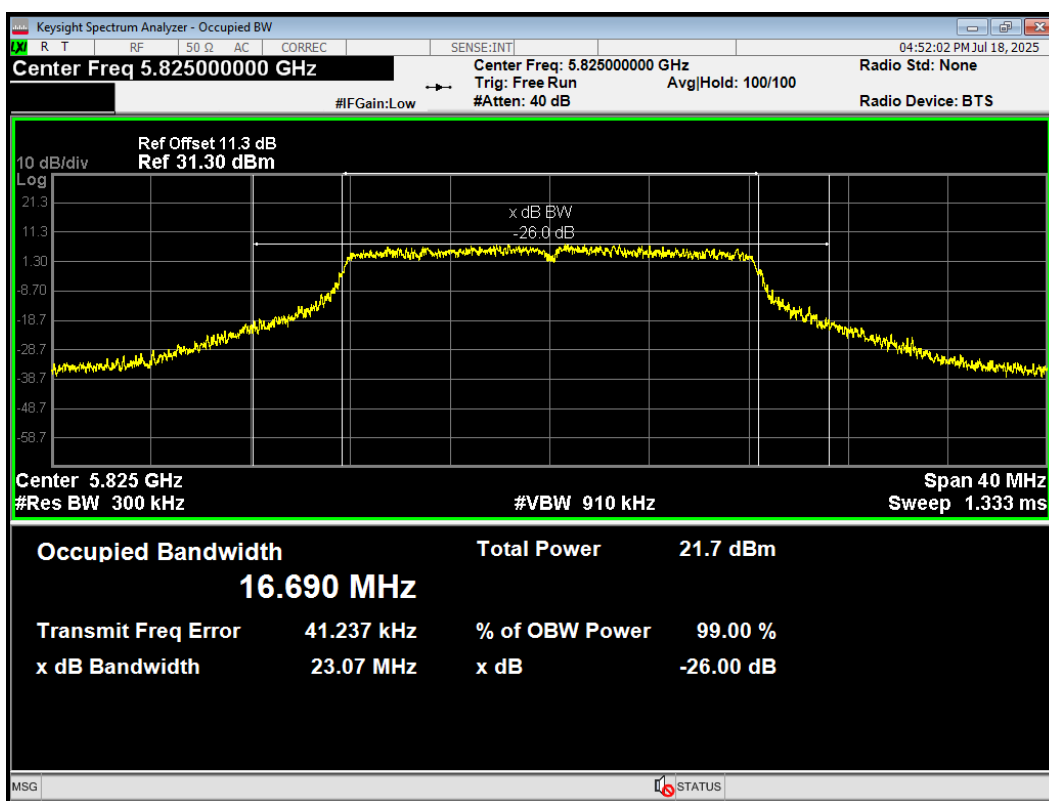
OBW 802.11a 5745MHz



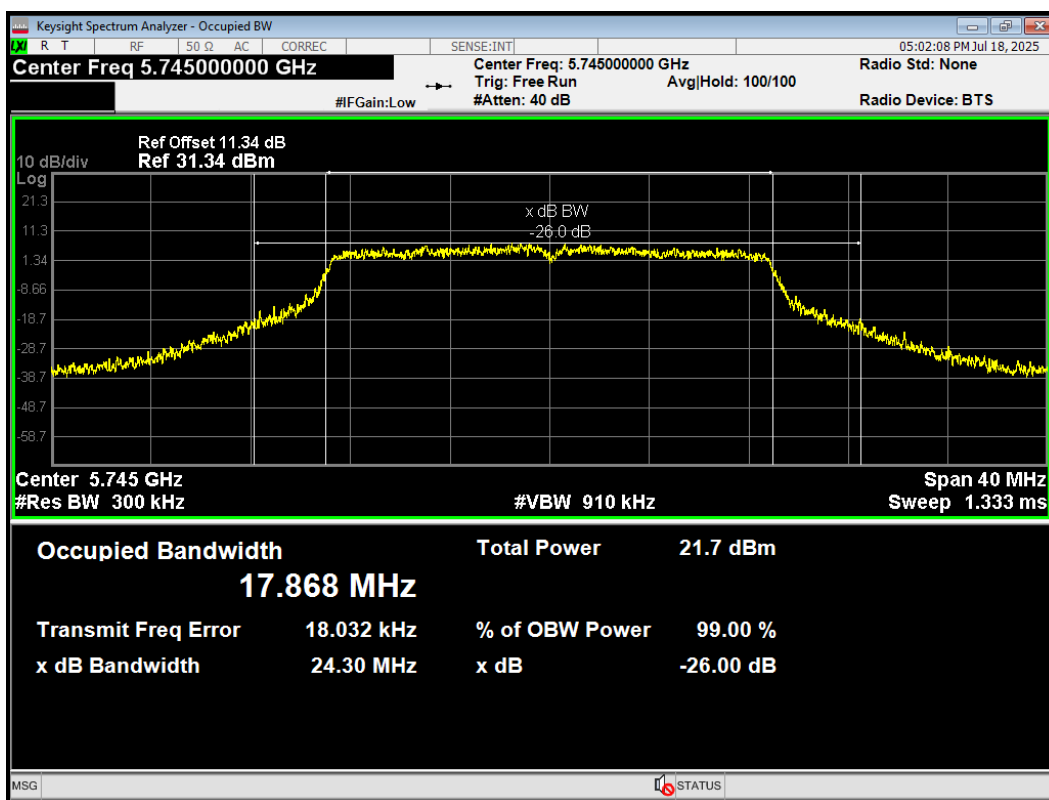
OBW 802.11a 5785MHz



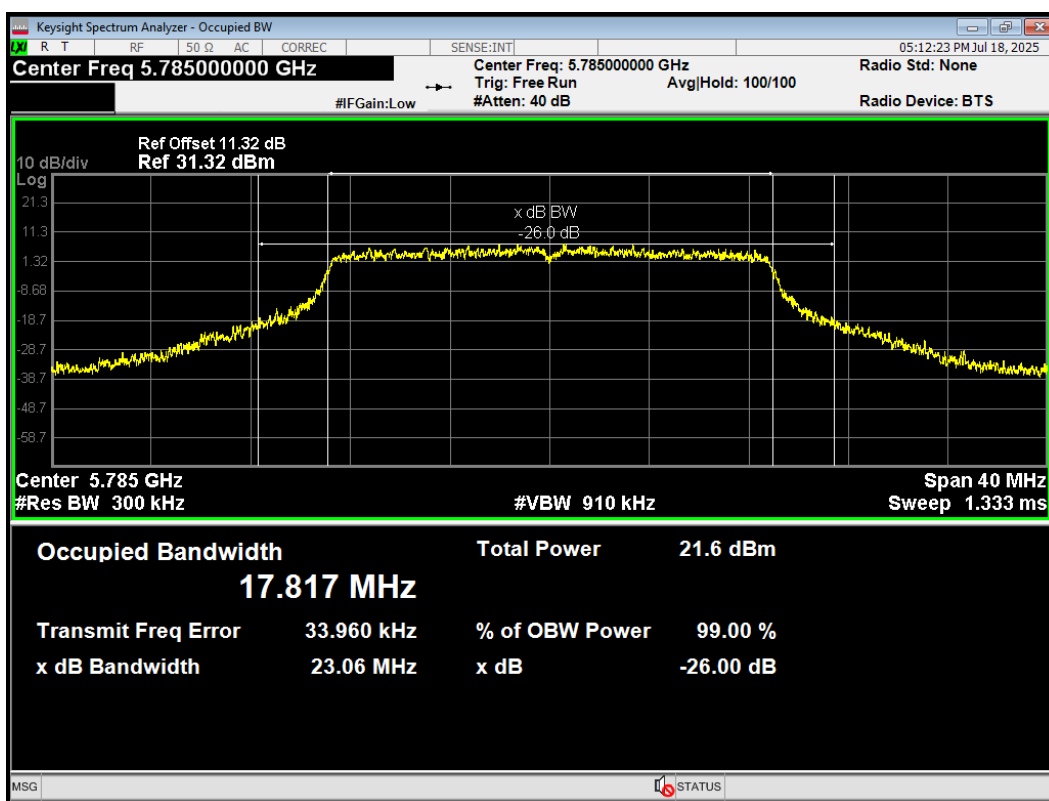
OBW 802.11a 5825MHz



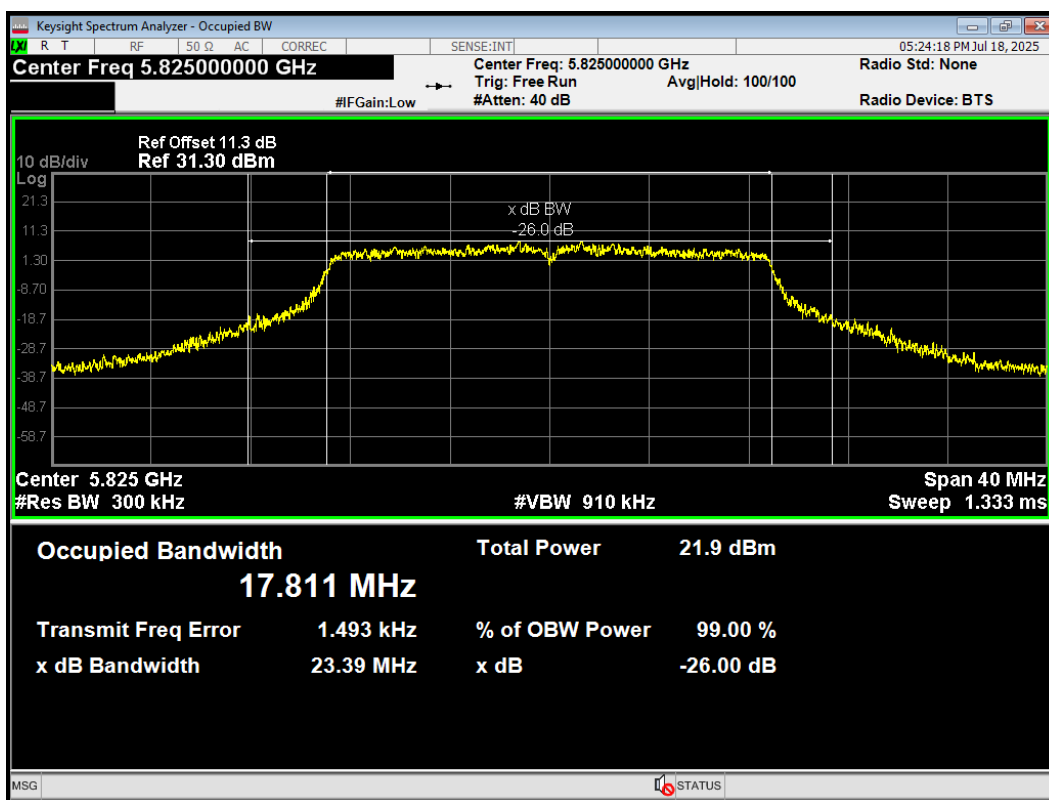
OBW 802.11ac(VHT20) 5745MHz



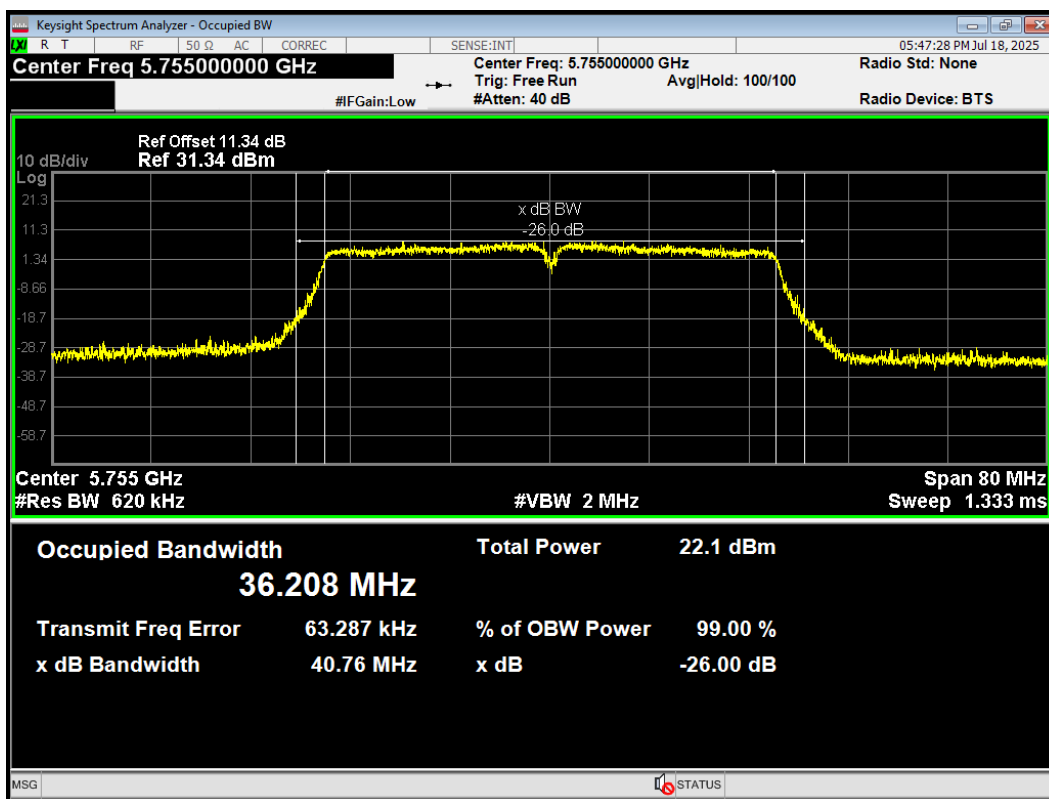
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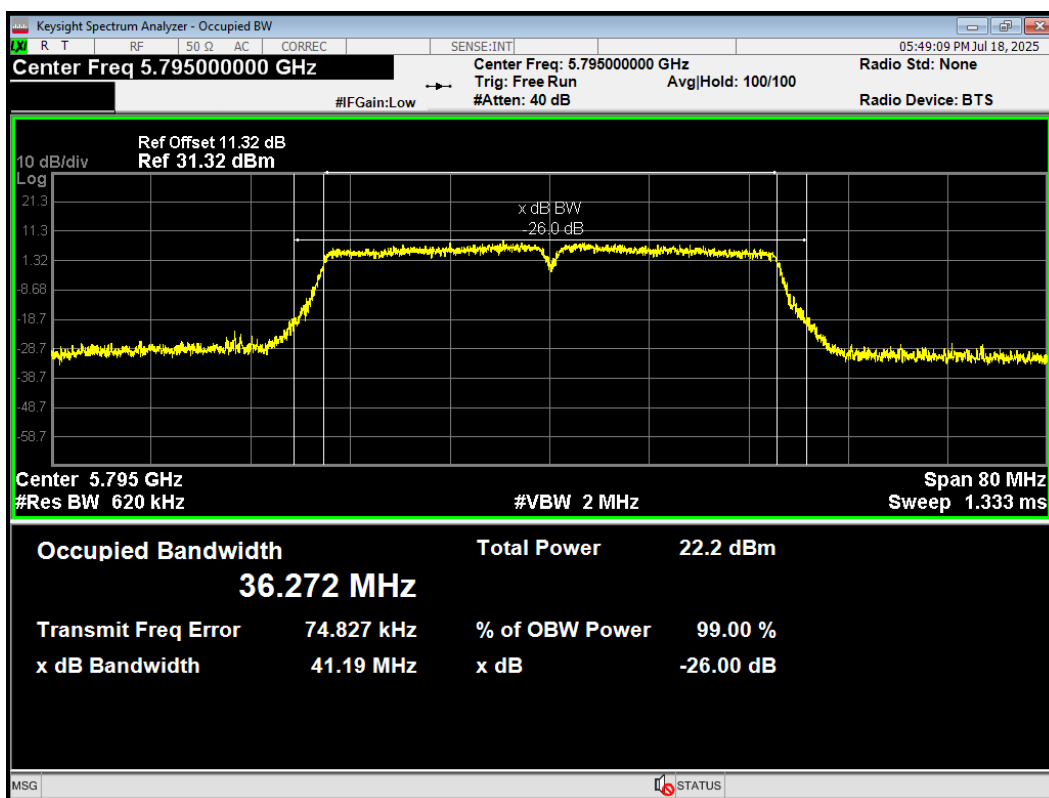
OBW 802.11ac(VHT20) 5825MHz



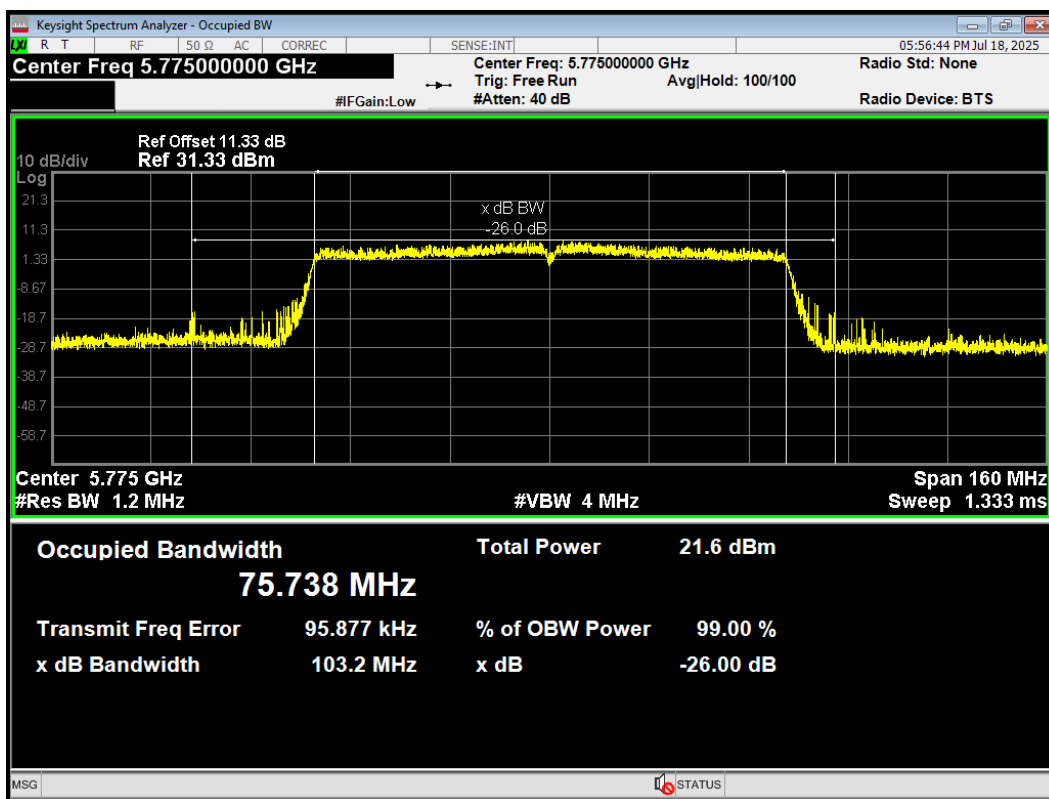
OBW 802.11ac(VHT40) 5755MHz



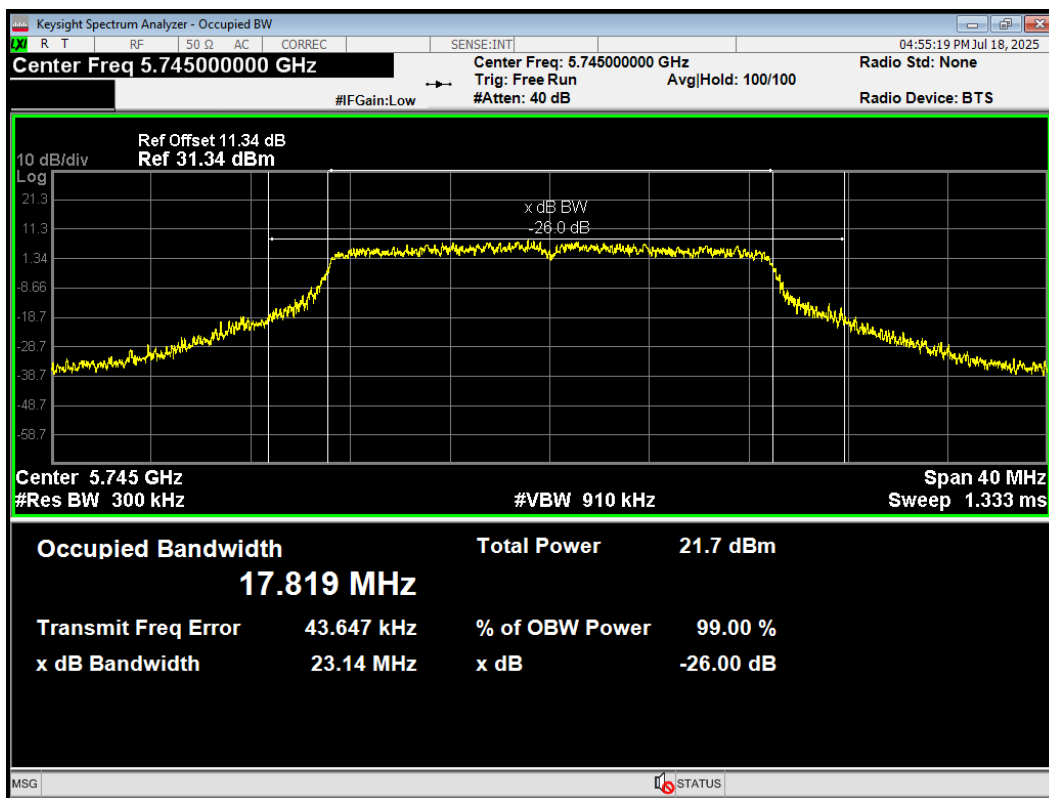
OBW 802.11ac(VHT40) 5795MHz



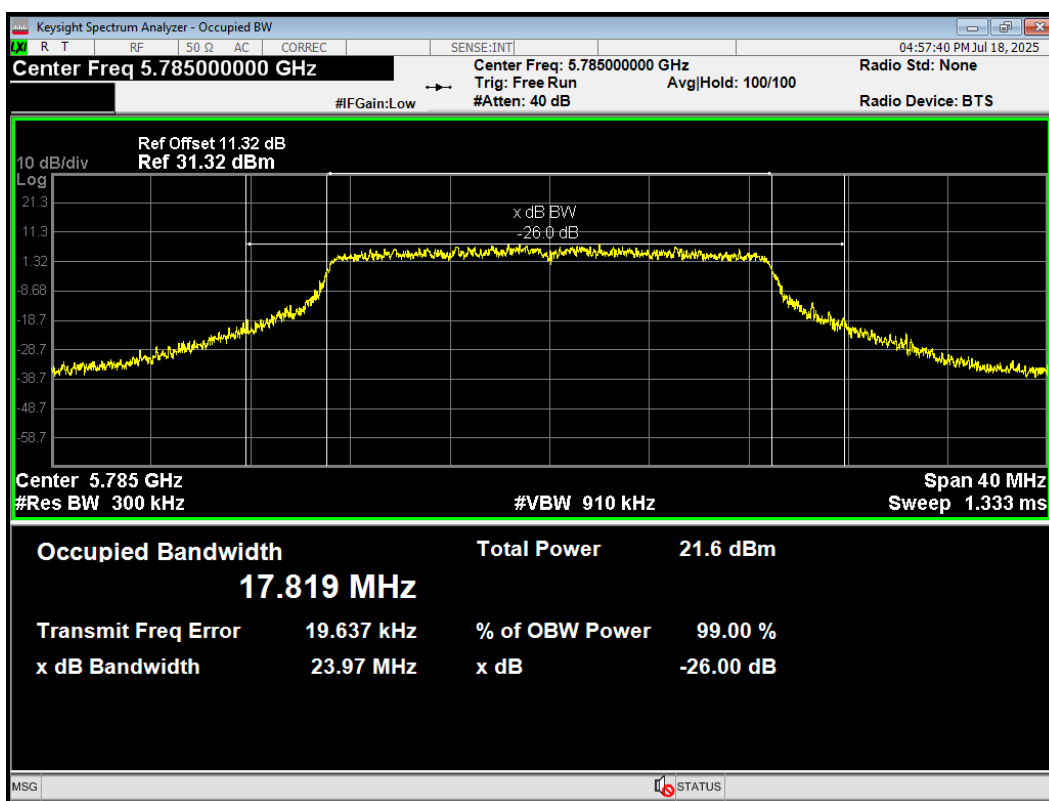
OBW 802.11ac(VHT80) 5775MHz



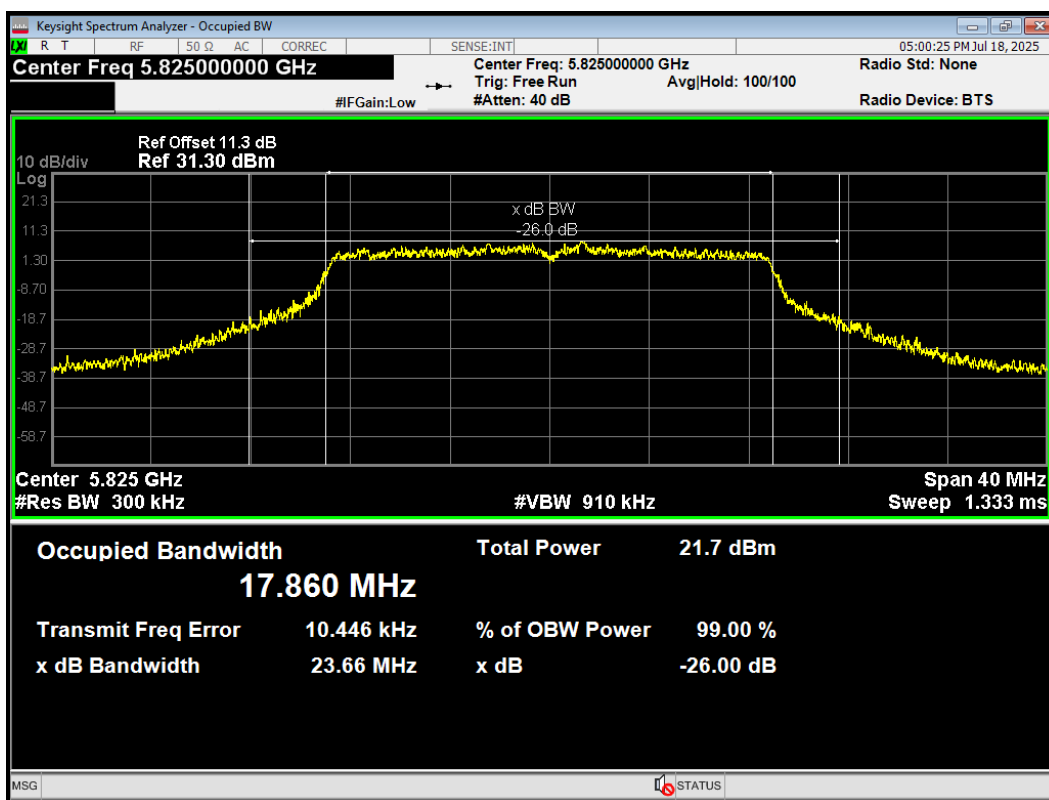
OBW 802.11n(HT20) 5745MHz



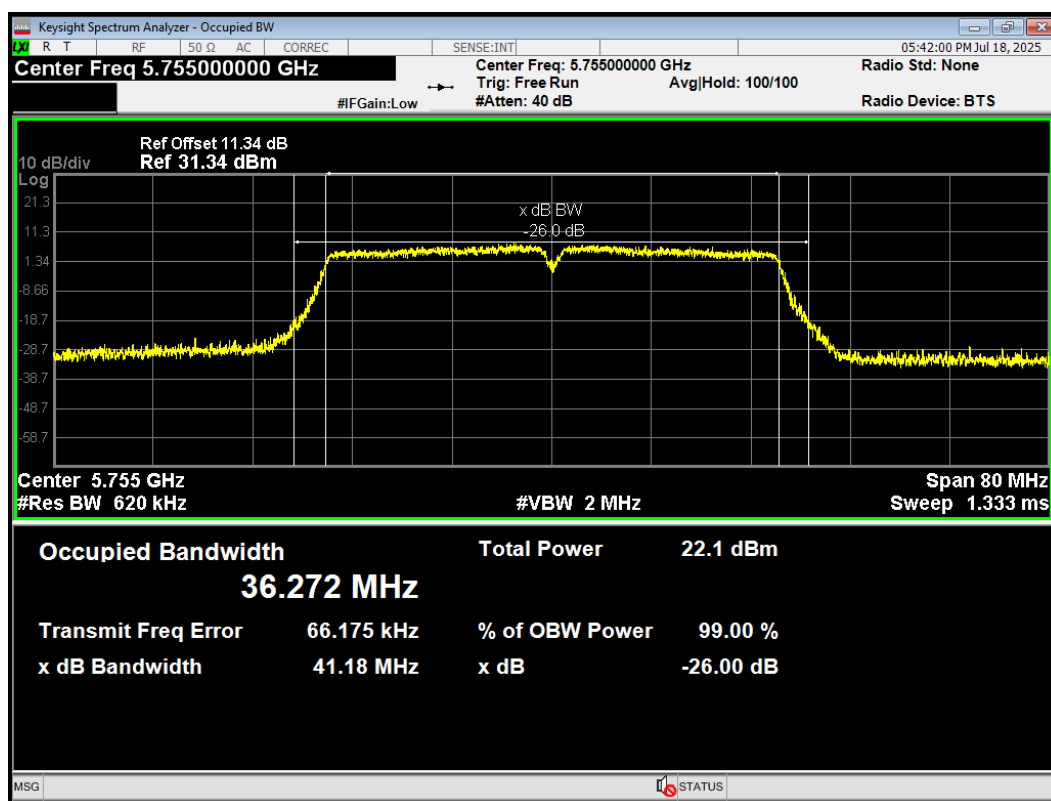
OBW 802.11n(HT20) 5785MHz



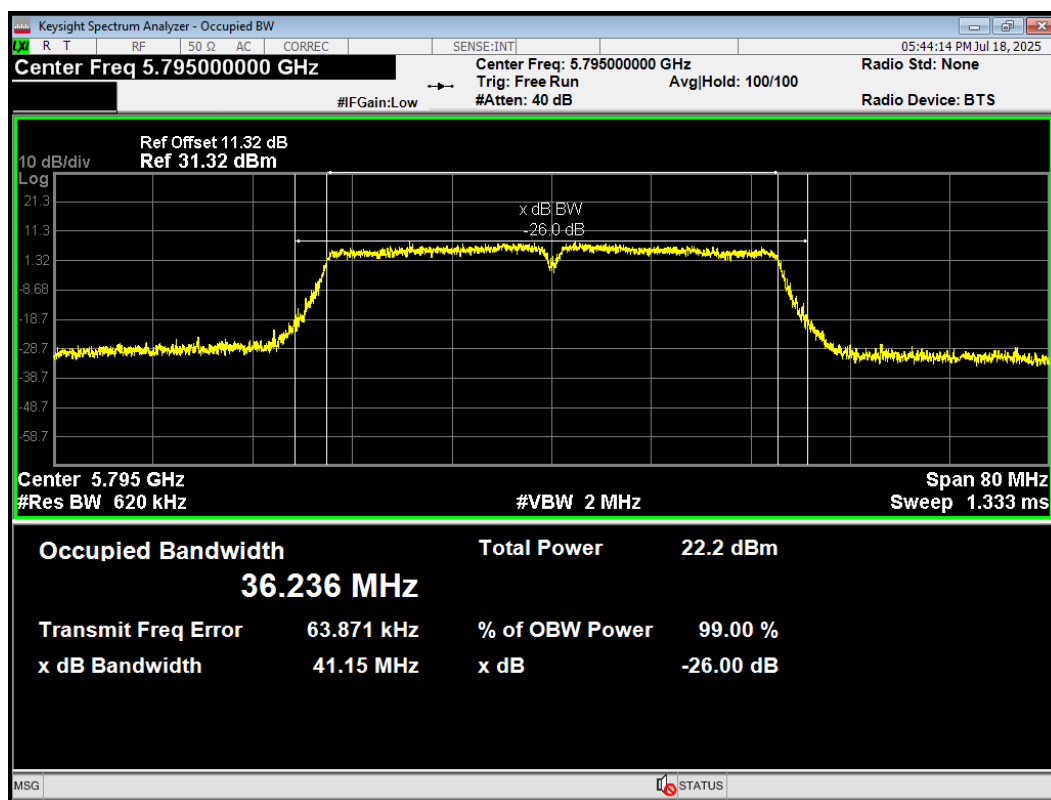
OBW 802.11n(HT20) 5825MHz



OBW 802.11n(HT40) 5755MHz



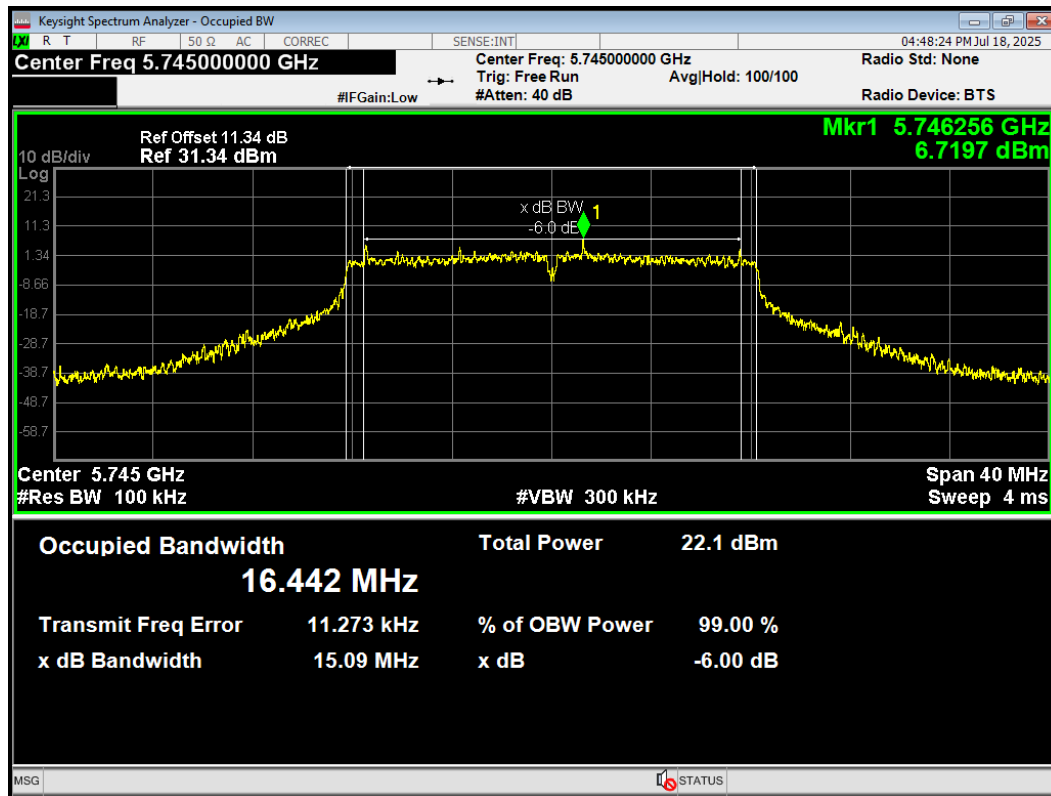
OBW 802.11n(HT40) 5795MHz



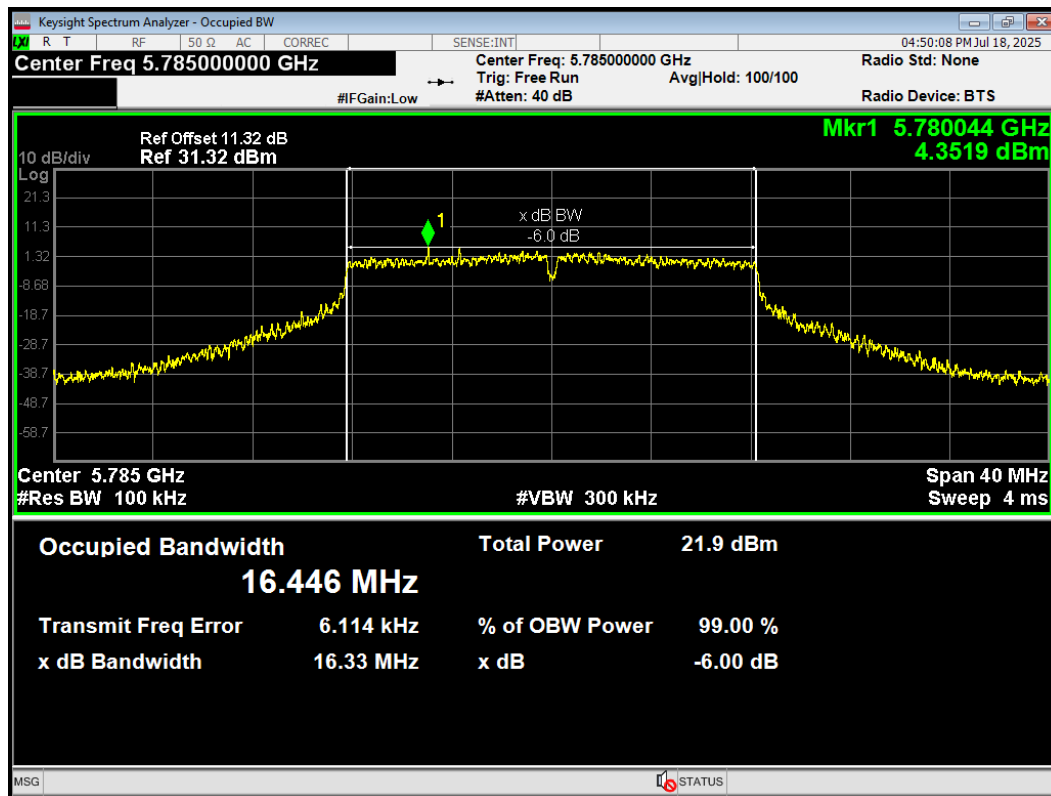
Minimum 6 dB bandwidth

U-NII-3

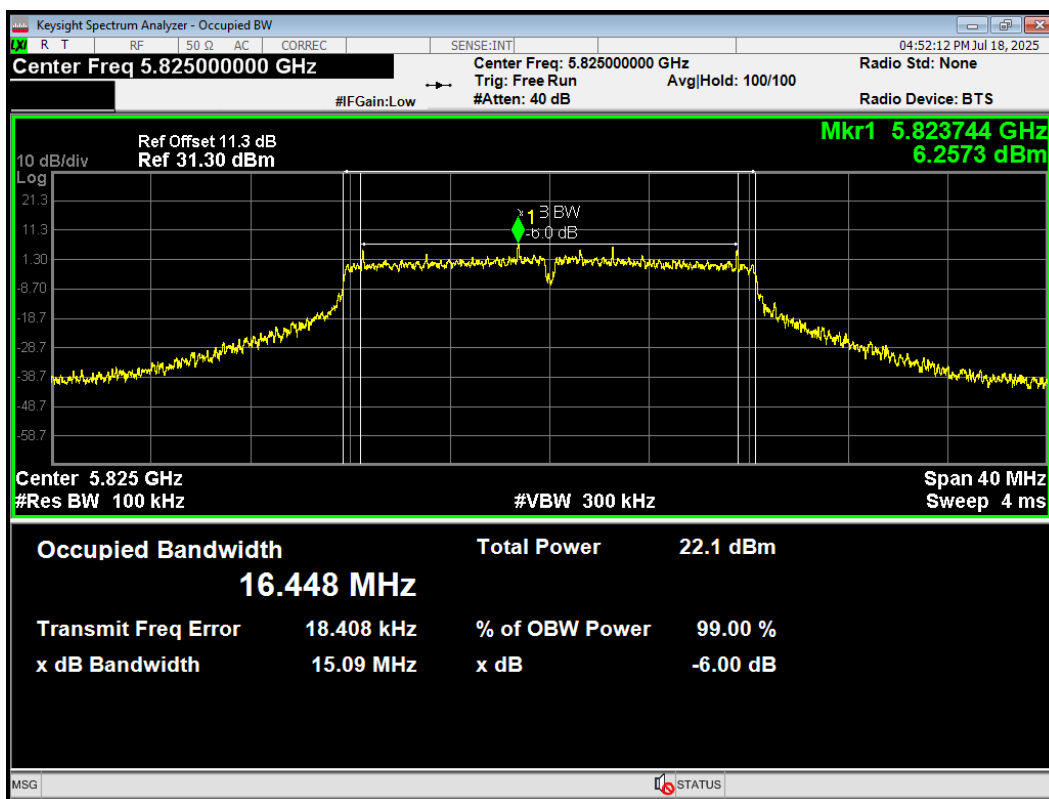
-6dB Bandwidth 802.11a 5745MHz



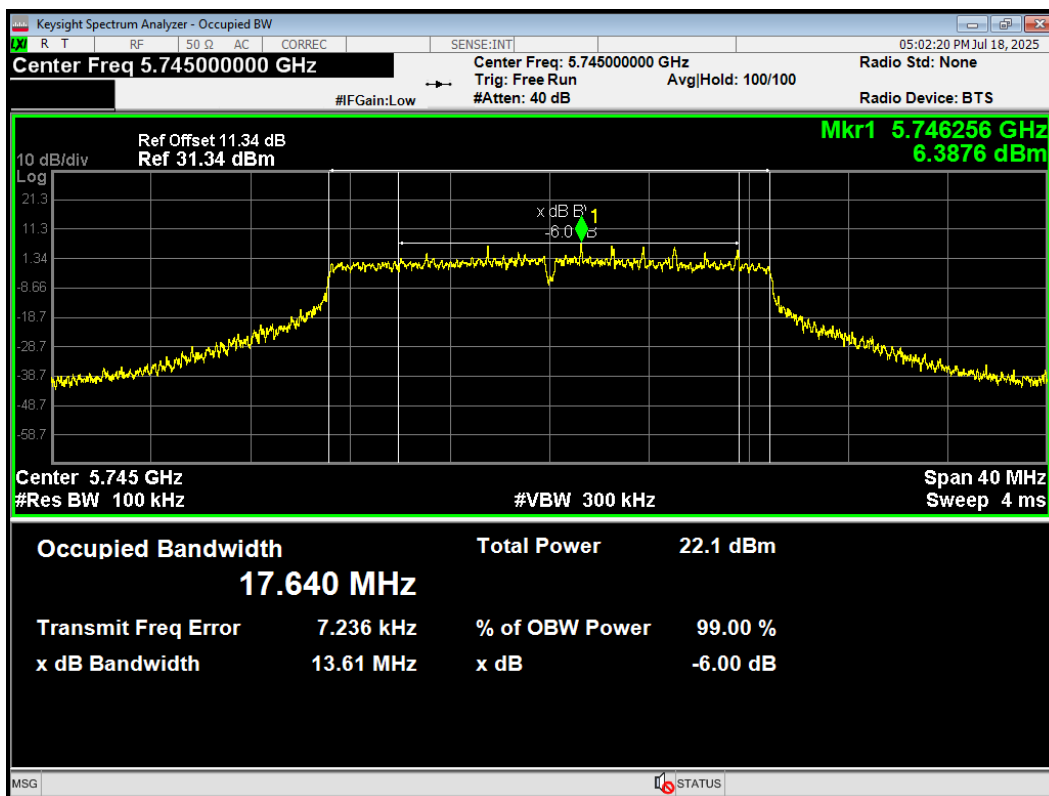
-6dB Bandwidth 802.11a 5785MHz



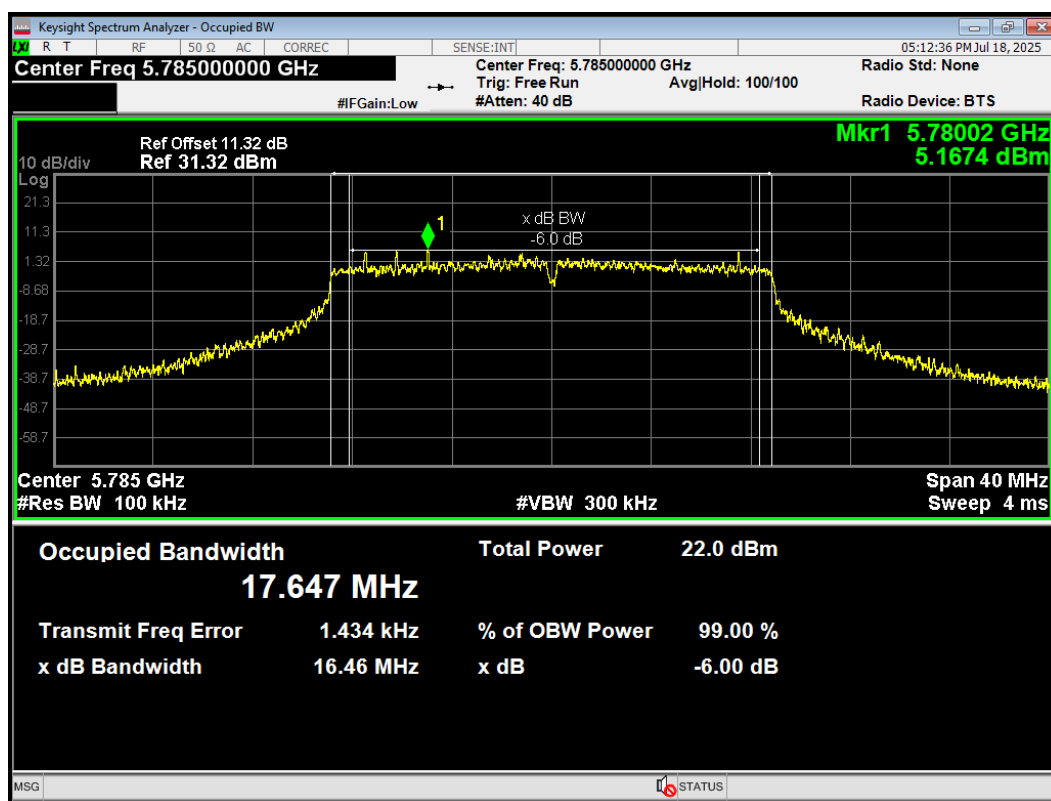
-6dB Bandwidth 802.11a 5825MHz



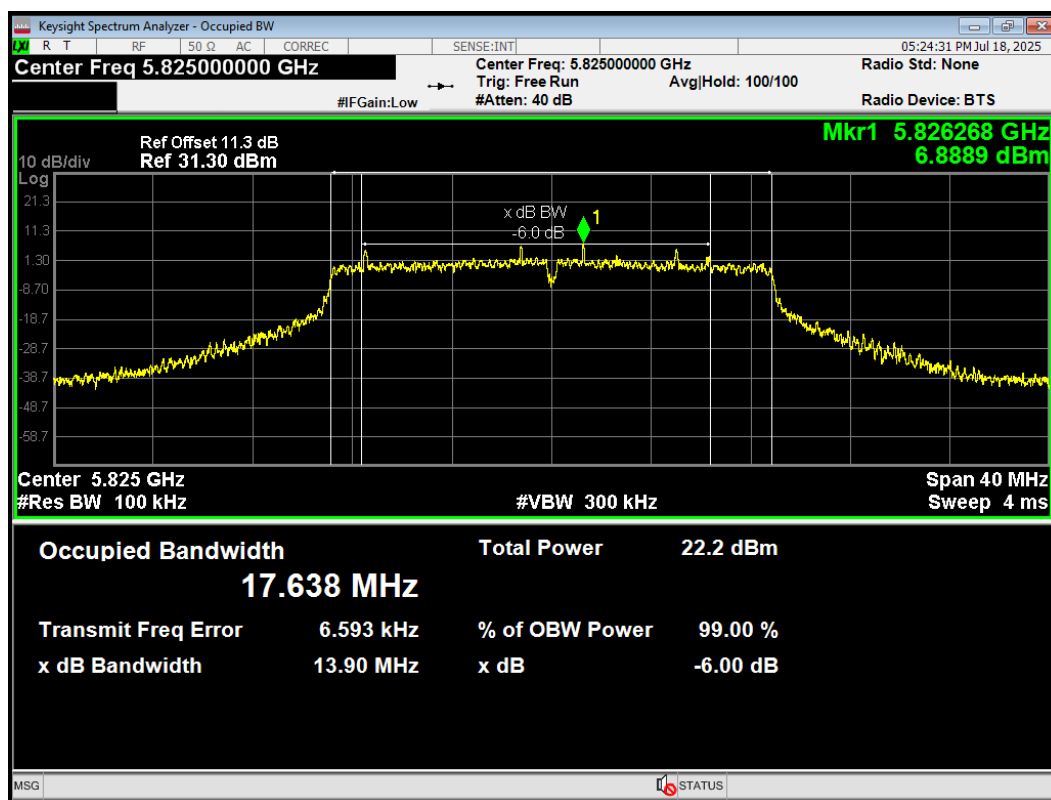
-6dB Bandwidth 802.11ac(VHT20) 5745MHz



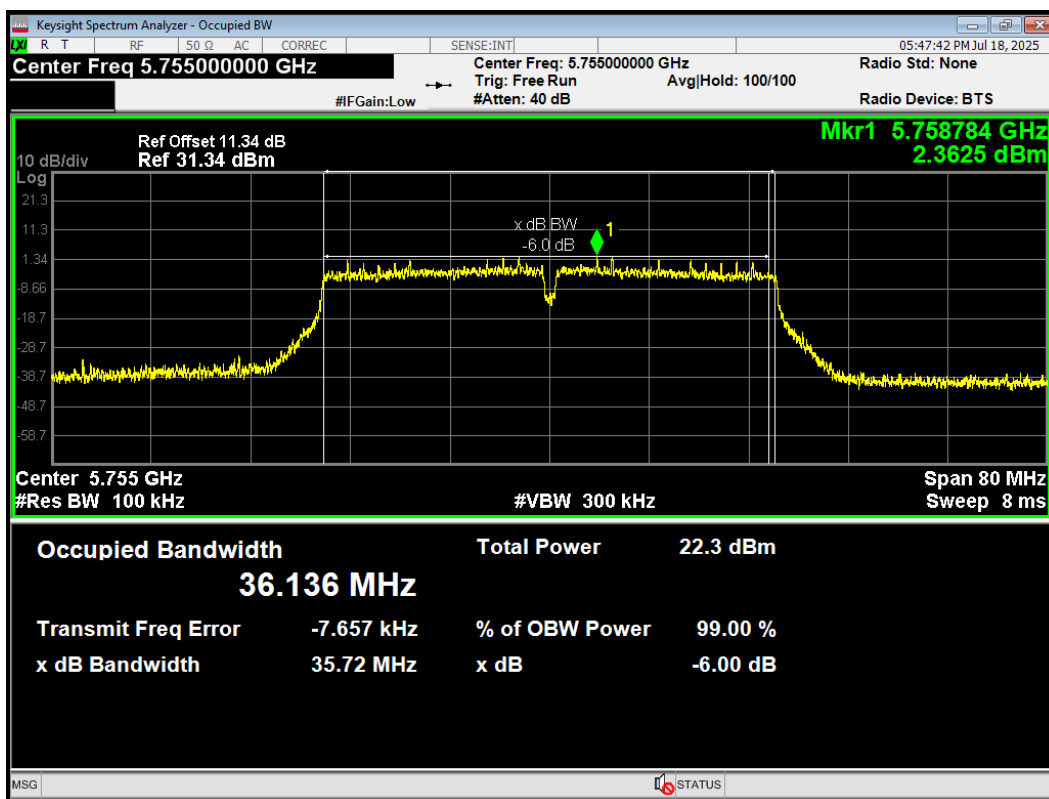
-6dB Bandwidth 802.11ac(VHT20) 5785MHz



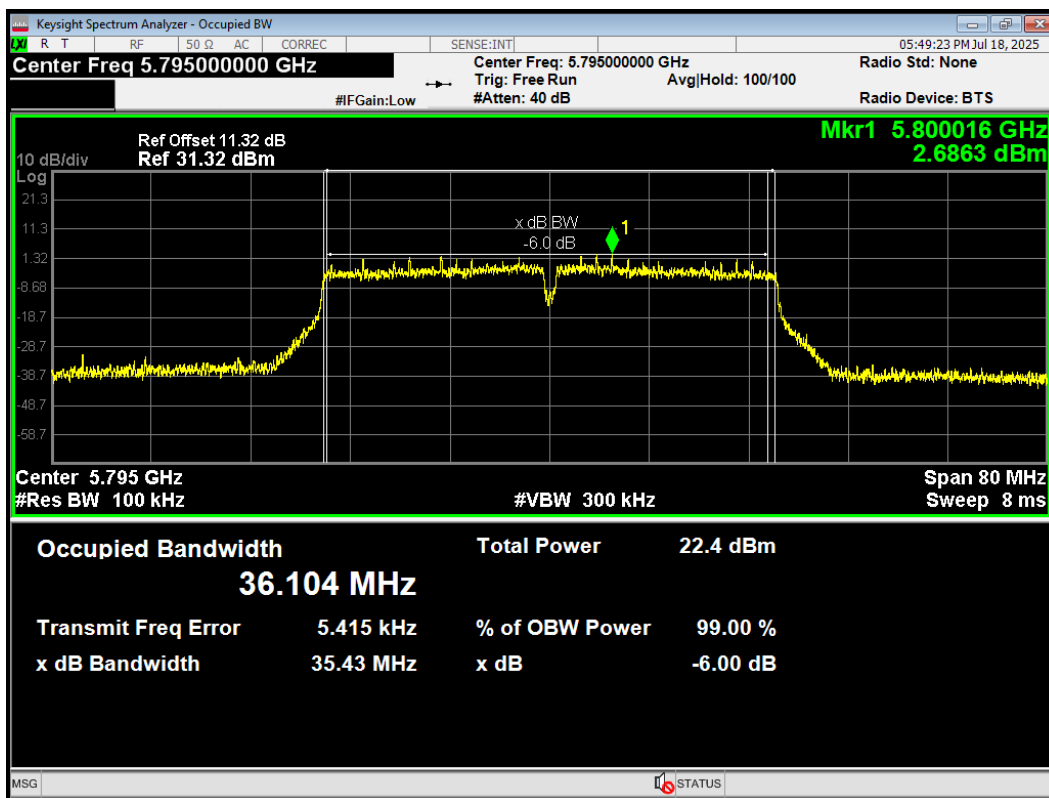
-6dB Bandwidth 802.11ac(VHT20) 5825MHz



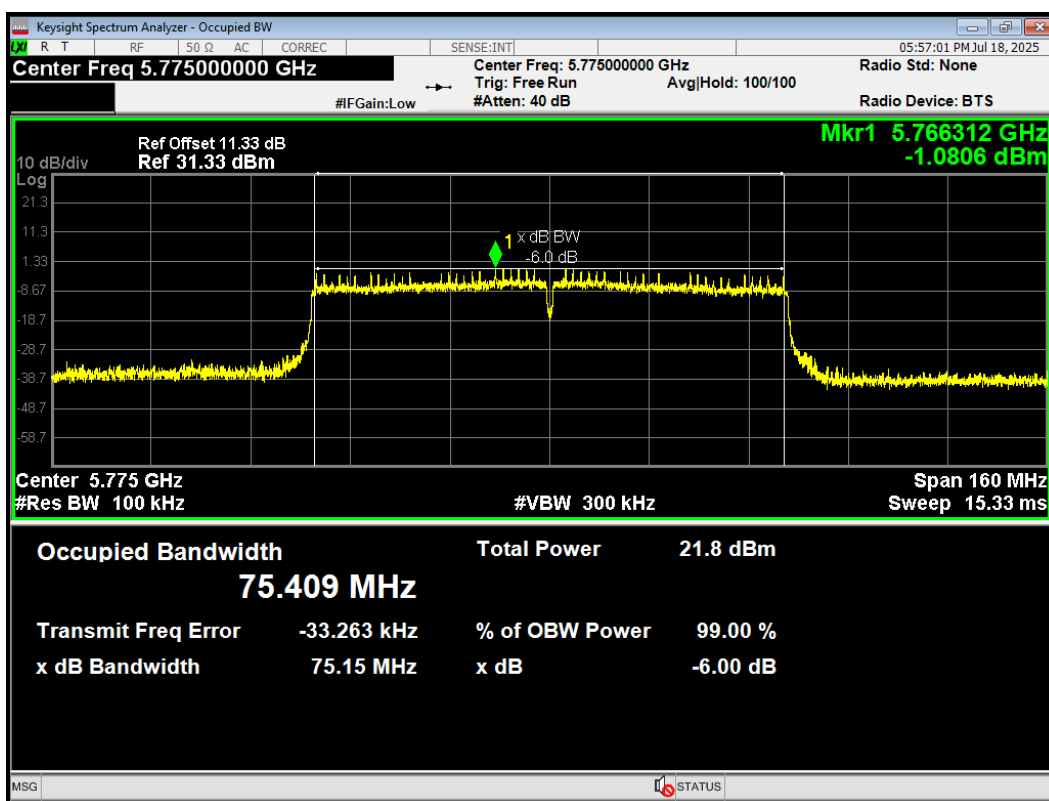
-6dB Bandwidth 802.11ac(VHT40) 5755MHz



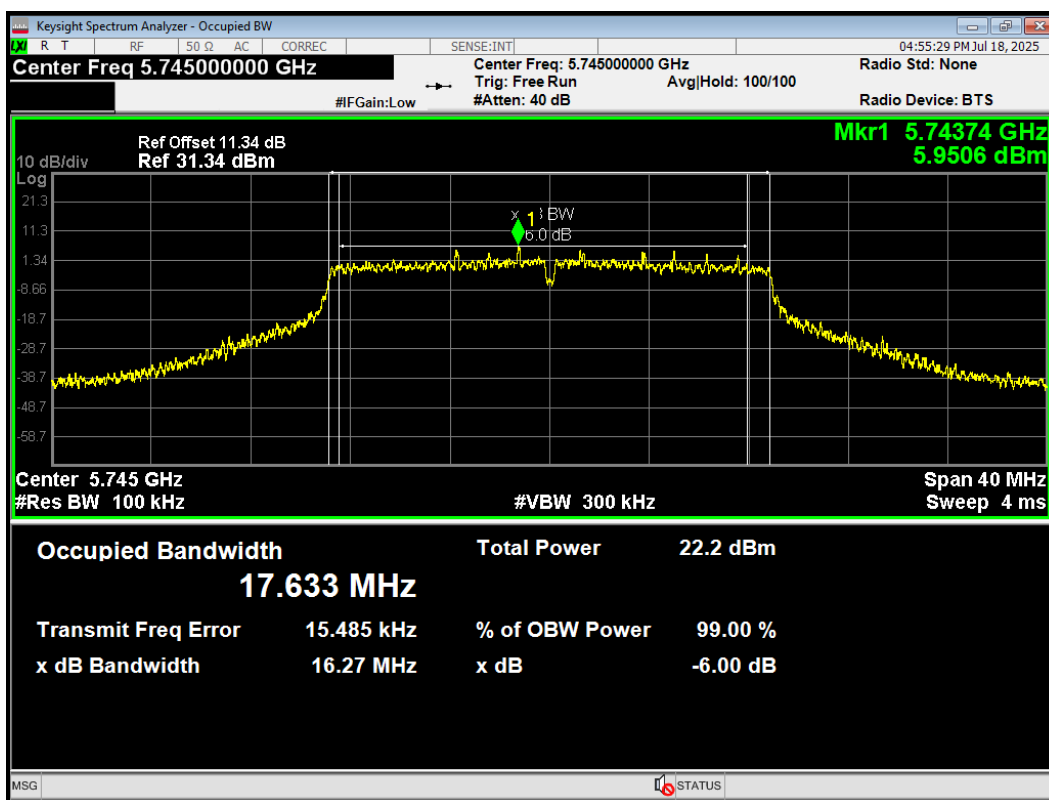
-6dB Bandwidth 802.11ac(VHT40) 5795MHz



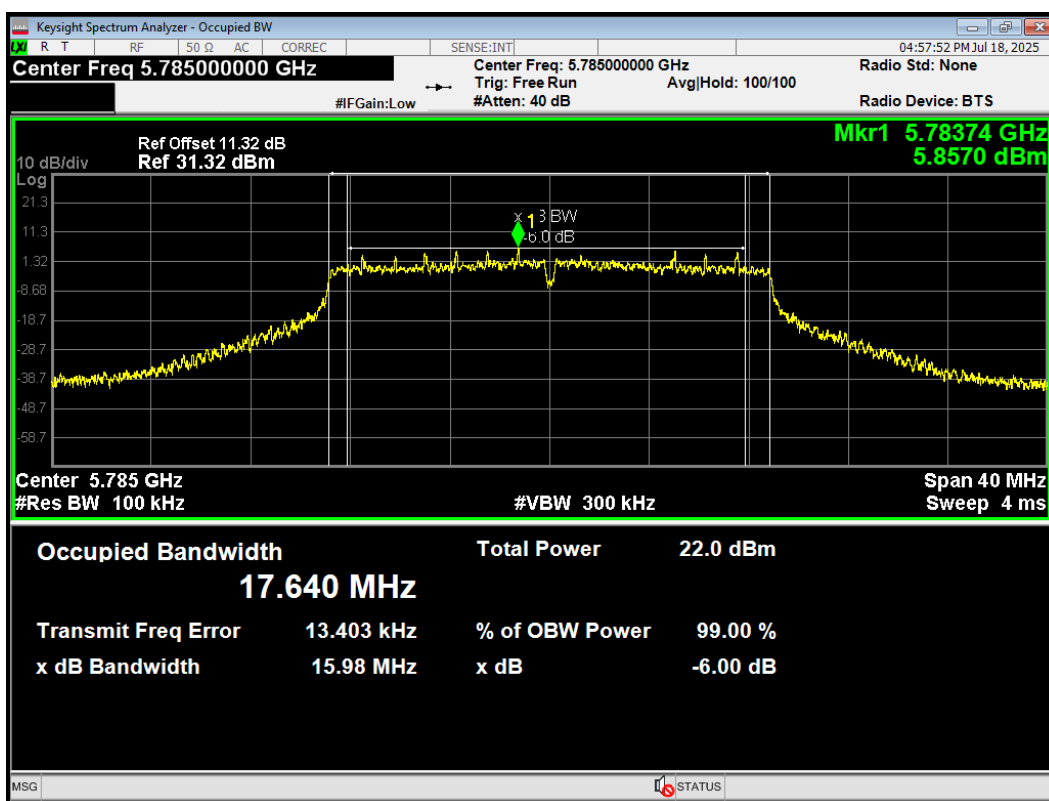
-6dB Bandwidth 802.11ac(VHT80) 5775MHz



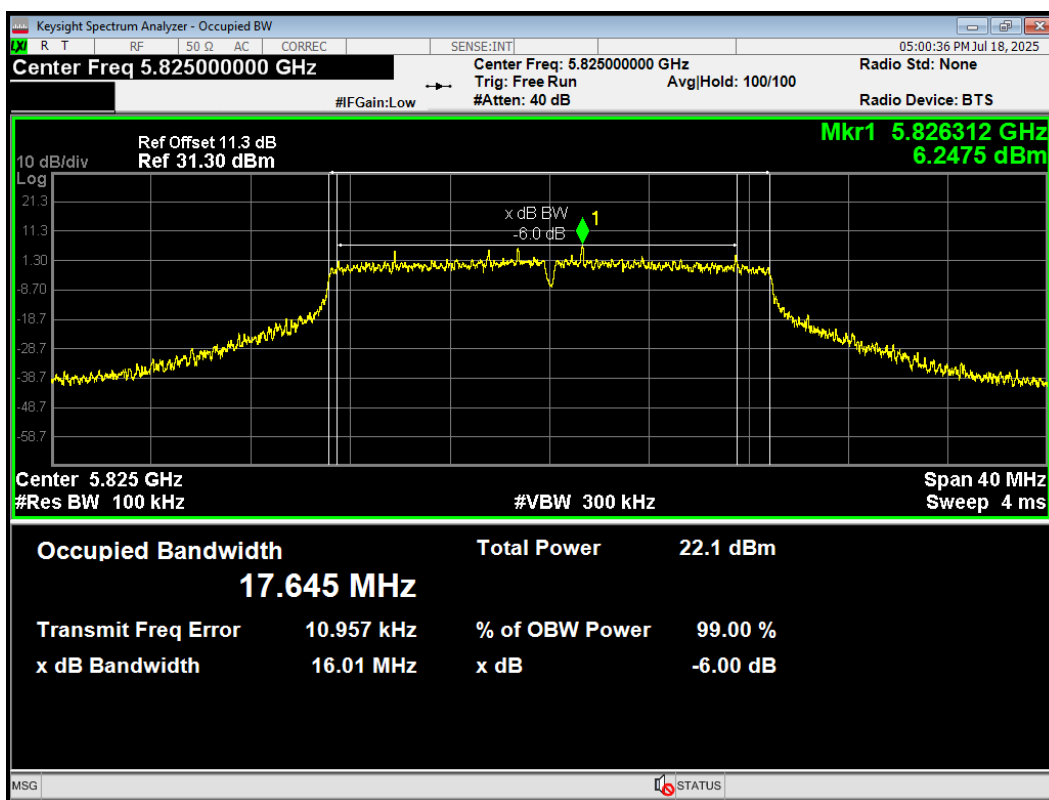
-6dB Bandwidth 802.11n(HT20) 5745MHz



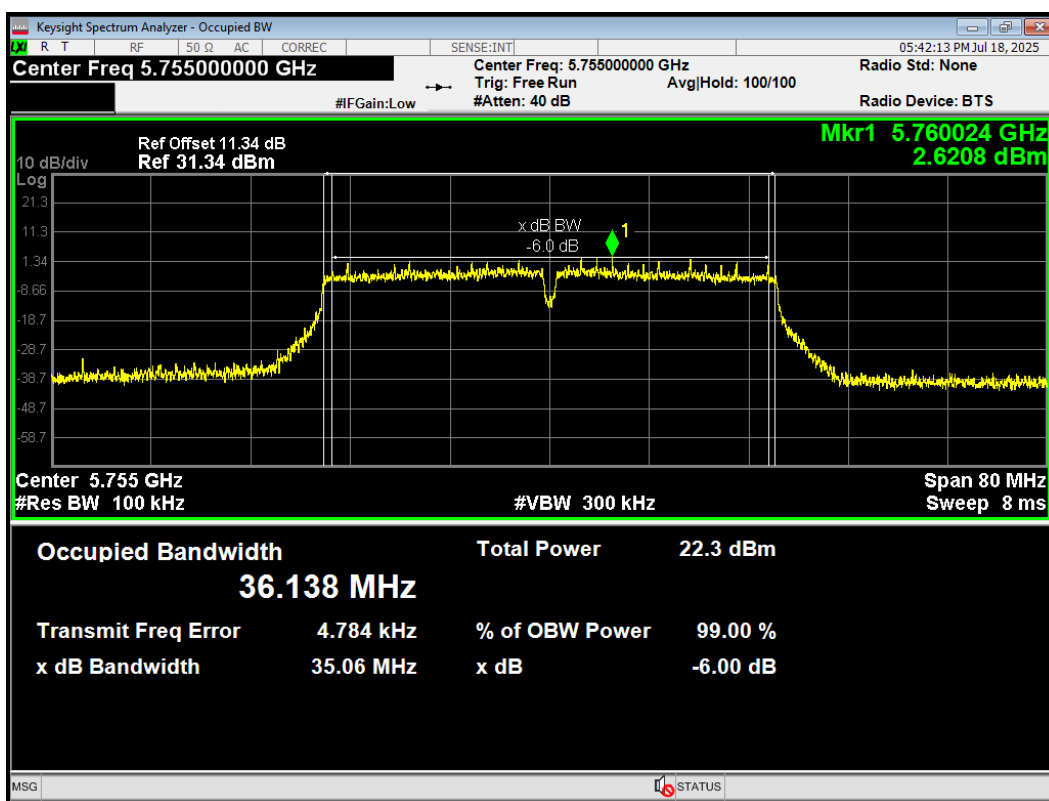
-6dB Bandwidth 802.11n(HT20) 5785MHz



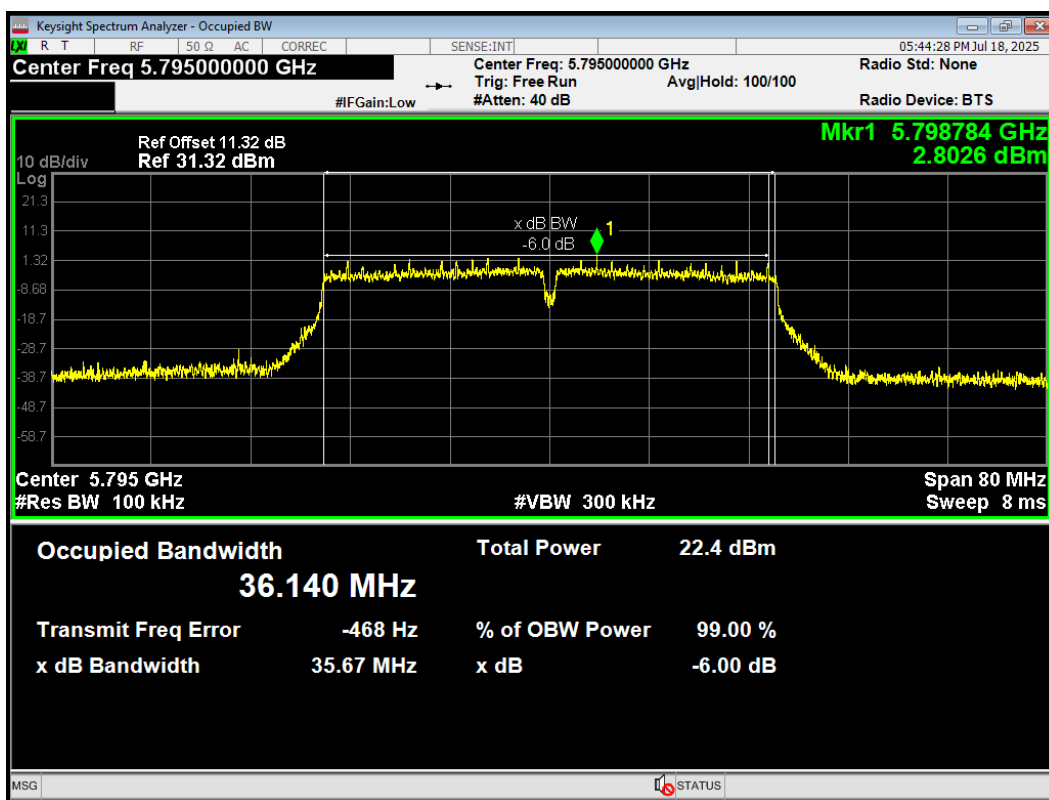
-6dB Bandwidth 802.11n(HT20) 5825MHz



-6dB Bandwidth 802.11n(HT40) 5755MHz



-6dB Bandwidth 802.11n(HT40) 5795MHz



5.2. Average Power Output

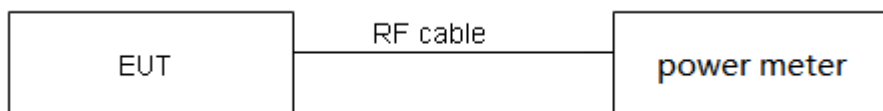
Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 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 $k = 2$, $U = 0.44 \text{ dB}$.

Test Results

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11a	0.983	0.00
802.11n HT20	0.981	0.00
802.11n HT40	0.964	0.16
802.11ac VHT20	0.927	0.33
802.11ac VHT40	0.964	0.16
802.11ac VHT80	0.927	0.33
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

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	22.82	24.58	24.00
		60/5300	25.03	24.99	24.00
		64/5320	22.47	24.52	24.00
	802.11n HT20	52/5260	22.94	24.61	24.00
		60/5300	24.34	24.86	24.00
		64/5320	23.93	24.79	24.00
	802.11n HT40	54/5270	41.47	27.18	24.00
		62/5310	41.64	27.20	24.00
	802.11ac VHT20	52/5260	24.65	24.92	24.00
		60/5300	24.55	24.90	24.00
		64/5320	24.49	24.89	24.00
	802.11ac VHT40	54/5270	41.30	27.16	24.00
		62/5310	41.29	27.16	24.00
	802.11ac VHT80	58/5290	83.23	30.20	24.00
U-NII-2C	802.11a	100/5500	22.98	24.61	24.00
		120/5600	22.89	24.60	24.00
		140/5700	22.67	24.56	24.00
	802.11n HT20	100/5500	23.62	24.73	24.00
		120/5600	23.61	24.73	24.00
		140/5700	24.32	24.86	24.00
	802.11n HT40	102/5510	41.34	27.16	24.00
		118/5590	40.93	27.12	24.00
		134/5670	40.85	27.11	24.00
	802.11ac VHT20	100/5500	23.47	24.70	24.00
		120/5600	23.41	24.69	24.00
		140/5700	24.04	24.81	24.00
	802.11ac VHT40	102/5510	41.10	27.14	24.00
		118/5590	41.74	27.21	24.00
		134/5670	41.25	27.15	24.00
	802.11ac VHT80	122/5610	107.80	31.33	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	14.80	14.80	24.00	PASS
	40/5200	16.51	16.51	24.00	PASS
	48/5240	16.55	16.55	24.00	PASS
802.11n HT20	36/5180	14.88	14.88	24.00	PASS
	40/5200	16.63	16.63	24.00	PASS
	48/5240	16.63	16.63	24.00	PASS
802.11n HT40	38/5190	13.95	14.11	24.00	PASS
	46/5230	16.72	16.88	24.00	PASS
802.11ac VHT20	36/5180	14.92	15.25	24.00	PASS
	40/5200	16.51	16.84	24.00	PASS
	48/5240	16.37	16.70	24.00	PASS
802.11ac VHT40	38/5190	13.20	13.36	24.00	PASS
	46/5230	16.23	16.39	24.00	PASS
802.11ac VHT80	42/5210	11.64	11.97	24.00	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	15.93	15.93	24.00	PASS
	60/5300	16.21	16.21	24.00	PASS
	64/5320	14.58	14.58	24.00	PASS
802.11n HT20	52/5260	15.74	15.74	24.00	PASS
	60/5300	16.02	16.02	24.00	PASS
	64/5320	14.40	14.40	24.00	PASS
802.11n HT40	54/5270	15.78	15.94	24.00	PASS
	62/5310	12.34	12.50	24.00	PASS
802.11ac VHT20	52/5260	15.76	16.09	24.00	PASS
	60/5300	16.02	16.35	24.00	PASS
	64/5320	14.34	14.67	24.00	PASS
802.11ac VHT40	54/5270	15.97	16.13	24.00	PASS
	62/5310	12.37	12.53	24.00	PASS
802.11ac VHT80	58/5290	10.67	11.00	24.00	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	16.02	16.02	24.00	PASS
	120/5600	16.19	16.19	24.00	PASS
	140/5700	11.91	11.91	24.00	PASS
802.11n HT20	100/5500	15.89	15.89	24.00	PASS
	120/5600	16.02	16.02	24.00	PASS
	140/5700	11.90	11.90	24.00	PASS
802.11n HT40	102/5510	15.31	15.47	24.00	PASS
	118/5590	16.04	16.20	24.00	PASS
	134/5670	15.45	15.61	24.00	PASS
802.11ac VHT20	100/5500	16.07	16.40	24.00	PASS
	120/5600	16.01	16.34	24.00	PASS
	140/5700	11.95	12.28	24.00	PASS
802.11ac VHT40	102/5510	15.30	15.46	24.00	PASS
	118/5590	16.00	16.16	24.00	PASS
	134/5670	15.44	15.60	24.00	PASS
802.11ac VHT80	122/5610	15.57	15.90	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	149/5745	15.94	15.94	30.00	PASS
	157/5785	15.83	15.83	30.00	PASS
	165/5825	15.85	15.85	30.00	PASS
802.11n HT20	149/5745	15.80	15.80	30.00	PASS
	157/5785	15.74	15.74	30.00	PASS
	165/5825	15.82	15.82	30.00	PASS
802.11n HT40	151/5755	15.87	16.03	30.00	PASS
	159/5795	15.95	16.11	30.00	PASS
802.11ac VHT20	149/5745	15.82	16.15	30.00	PASS
	157/5785	15.74	16.07	30.00	PASS
	165/5825	15.80	16.13	30.00	PASS
802.11ac VHT40	151/5755	15.85	16.01	30.00	PASS
	159/5795	15.93	16.09	30.00	PASS
802.11ac VHT80	155/5775	14.84	15.17	30.00	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

5.3. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

1. Frequency stability with respect to ambient temperature

- a) 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.
- b) 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.
- c) 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).
- d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- e) 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.
- f) 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.
- g) Measure the frequency at each of frequencies specified in 5.6.
- h) Switch OFF the EUT but do not switch OFF the oscillator heater.
- i) Lower the chamber temperature by not more than 10°C, and allow the temperature inside the chamber to stabilize.
- j) 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.

- a) 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 $k = 2$, $U = 936\text{Hz}$

Test Results

	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
-30	802.11ac 20M	ANT1	5180	5171.566	5188.475	5150 - 5250	PASS
			5240	5231.393	5248.532	5150 - 5250	PASS
			5260	5251.539	5268.383	5250 - 5350	PASS
			5320	5311.406	5328.166	5250 - 5350	PASS
			5500	5491.294	5508.681	5470 - 5725	PASS
			5700	5691.994	5708.847	5470 - 5725	PASS
			5745	5736.208	5753.270	5725 - 5850	PASS
			5825	5816.481	5833.049	5725 - 5850	PASS
	802.11ac 40M	ANT1	5190	5172.708	5208.002	5150 - 5250	PASS
			5230	5211.986	5247.148	5150 - 5250	PASS
			5270	5251.500	5287.097	5250 - 5350	PASS
			5310	5291.585	5328.362	5250 - 5350	PASS
			5510	5491.531	5527.260	5470 - 5725	PASS
			5670	5651.931	5687.254	5470 - 5725	PASS
			5755	5736.880	5772.550	5725 - 5850	PASS
			5795	5776.377	5813.234	5725 - 5850	PASS
	802.11ac 80M	ANT1	5210	5172.541	5247.815	5150 - 5250	PASS
			5290	5252.080	5327.527	5250 - 5350	PASS
			5530	5492.070	5567.836	5470 - 5725	PASS
			5775	5737.206	5812.227	5725 - 5850	PASS
-20	802.11ac 20M	ANT1	5180	5171.034	5188.854	5150 - 5250	PASS
			5240	5231.645	5248.925	5150 - 5250	PASS
			5260	5250.075	5268.132	5250 - 5350	PASS
			5320	5310.164	5328.282	5250 - 5350	PASS
			5500	5490.784	5508.077	5470 - 5725	PASS
			5700	5690.359	5708.859	5470 - 5725	PASS
			5745	5735.881	5753.500	5725 - 5850	PASS
			5825	5815.698	5833.176	5725 - 5850	PASS
	802.11ac 40M	ANT1	5190	5171.705	5207.979	5150 - 5250	PASS
			5230	5211.018	5247.829	5150 - 5250	PASS
			5270	5251.734	5287.513	5250 - 5350	PASS
			5310	5291.627	5328.634	5250 - 5350	PASS

			5510	5491.085	5527.379	5470 - 5725	PASS
			5670	5651.398	5687.519	5470 - 5725	PASS
			5755	5736.695	5772.553	5725 - 5850	PASS
			5795	5776.395	5812.709	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 80M	ANT1	5210	5172.556	5247.685	5150 - 5250	PASS
			5290	5252.973	5327.473	5250 - 5350	PASS
			5530	5492.600	5567.781	5470 - 5725	PASS
			5775	5737.423	5812.459	5725 - 5850	PASS
-10	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 20M	ANT1	5180	5171.192	5188.001	5150 - 5250	PASS
			5240	5231.848	5248.855	5150 - 5250	PASS
			5260	5251.514	5268.243	5250 - 5350	PASS
			5320	5311.420	5328.899	5250 - 5350	PASS
			5500	5491.368	5508.020	5470 - 5725	PASS
			5700	5691.776	5708.765	5470 - 5725	PASS
			5745	5736.316	5753.012	5725 - 5850	PASS
			5825	5816.178	5833.875	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 40M	ANT1	5190	5171.300	5207.955	5150 - 5250	PASS
			5230	5212.488	5247.072	5150 - 5250	PASS
			5270	5251.992	5287.090	5250 - 5350	PASS
			5310	5291.900	5328.634	5250 - 5350	PASS
			5510	5491.798	5527.796	5470 - 5725	PASS
			5670	5651.304	5687.178	5470 - 5725	PASS
			5755	5736.623	5772.357	5725 - 5850	PASS
			5795	5776.705	5812.667	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 80M	ANT1	5210	5172.397	5247.192	5150 - 5250	PASS
			5290	5252.291	5327.193	5250 - 5350	PASS
			5530	5492.040	5567.881	5470 - 5725	PASS
			5775	5737.682	5812.555	5725 - 5850	PASS
LVNT	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 20M	ANT1	5180	5171.165	5188.039	5150 - 5250	PASS
			5240	5231.253	5248.316	5150 - 5250	PASS
			5260	5251.299	5268.624	5250 - 5350	PASS
			5320	5311.890	5328.601	5250 - 5350	PASS
			5500	5491.163	5508.697	5470 - 5725	PASS
			5700	5691.863	5708.863	5470 - 5725	PASS

			5745	5736.605	5753.257	5725 - 5850	PASS
			5825	5816.716	5833.557	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 40M	ANT1	5190	5171.337	5207.607	5150 - 5250	PASS
			5230	5211.670	5247.166	5150 - 5250	PASS
			5270	5251.402	5287.794	5250 - 5350	PASS
			5310	5291.882	5327.675	5250 - 5350	PASS
			5510	5491.005	5527.068	5470 - 5725	PASS
			5670	5651.955	5687.590	5470 - 5725	PASS
			5755	5736.112	5772.134	5725 - 5850	PASS
			5795	5776.599	5812.237	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 80M	ANT1	5210	5172.637	5247.410	5150 - 5250	PASS
			5290	5252.778	5327.627	5250 - 5350	PASS
			5530	5492.012	5567.751	5470 - 5725	PASS
			5775	5737.149	5812.452	5725 - 5850	PASS
HVNT	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 20M	ANT1	5180	5171.359	5188.169	5150 - 5250	PASS
			5240	5231.749	5248.022	5150 - 5250	PASS
			5260	5251.333	5268.467	5250 - 5350	PASS
			5320	5311.451	5328.540	5250 - 5350	PASS
			5500	5491.482	5508.866	5470 - 5725	PASS
			5700	5691.918	5708.561	5470 - 5725	PASS
			5745	5736.588	5753.849	5725 - 5850	PASS
			5825	5816.946	5833.783	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 40M	ANT1	5190	5171.912	5208.436	5150 - 5250	PASS
			5230	5211.778	5248.621	5150 - 5250	PASS
			5270	5251.047	5288.083	5250 - 5350	PASS
			5310	5291.125	5328.802	5250 - 5350	PASS
			5510	5491.080	5528.775	5470 - 5725	PASS
			5670	5651.655	5688.552	5470 - 5725	PASS
			5755	5736.689	5773.524	5725 - 5850	PASS
			5795	5776.544	5813.231	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 80M	ANT1	5210	5172.500	5247.883	5150 - 5250	PASS
			5290	5252.575	5327.405	5250 - 5350	PASS
			5530	5492.581	5567.510	5470 - 5725	PASS
			5775	5737.139	5812.404	5725 - 5850	PASS

0	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
0	802.11ac 20M	ANT1	5180	5171.878	5188.350	5150 - 5250	PASS
			5240	5231.212	5248.535	5150 - 5250	PASS
			5260	5251.533	5268.131	5250 - 5350	PASS
			5320	5311.960	5328.012	5250 - 5350	PASS
			5500	5491.777	5508.987	5470 - 5725	PASS
			5700	5691.644	5708.167	5470 - 5725	PASS
			5745	5736.100	5753.353	5725 - 5850	PASS
			5825	5816.641	5833.975	5725 - 5850	PASS
	802.11ac 40M	ANT1	5190	5171.131	5207.489	5150 - 5250	PASS
			5230	5211.426	5247.442	5150 - 5250	PASS
			5270	5251.77	5287.948	5250 - 5350	PASS
			5310	5291.86	5327.174	5250 - 5350	PASS
			5510	5491.737	5527.492	5470 - 5725	PASS
			5670	5651.695	5687.592	5470 - 5725	PASS
			5755	5736.638	5772.025	5725 - 5850	PASS
			5795	5776.838	5812.599	5725 - 5850	PASS
	802.11ac 80M	ANT1	5210	5172.007	5247.450	5150 - 5250	PASS
			5290	5252.152	5327.467	5250 - 5350	PASS
			5530	5492.986	5567.534	5470 - 5725	PASS
			5775	5737.752	5812.818	5725 - 5850	PASS
10	802.11ac 20M	ANT1	5180	5171.877	5188.388	5150 - 5250	PASS
			5240	5231.405	5248.567	5150 - 5250	PASS
			5260	5251.727	5268.239	5250 - 5350	PASS
			5320	5311.607	5328.431	5250 - 5350	PASS
			5500	5491.218	5508.635	5470 - 5725	PASS
			5700	5691.510	5708.599	5470 - 5725	PASS
			5745	5736.732	5753.189	5725 - 5850	PASS
			5825	5816.729	5833.321	5725 - 5850	PASS
	802.11ac 40M	ANT1	5190	5171.627	5208.127	5150 - 5250	PASS
			5230	5211.623	5247.233	5150 - 5250	PASS
			5270	5251.179	5287.725	5250 - 5350	PASS
			5310	5291.607	5328.040	5250 - 5350	PASS
			5510	5491.229	5527.229	5470 - 5725	PASS
			5670	5651.186	5687.528	5470 - 5725	PASS

			5755	5736.502	5772.851	5725 - 5850	PASS
			5795	5776.700	5813.735	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 80M	ANT1	5210	5172.470	5247.474	5150 - 5250	PASS
			5290	5252.358	5327.598	5250 - 5350	PASS
			5530	5492.770	5567.069	5470 - 5725	PASS
			5775	5737.205	5812.474	5725 - 5850	PASS
20	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 20M	ANT1	5180	5171.948	5188.695	5150 - 5250	PASS
			5240	5231.838	5248.836	5150 - 5250	PASS
			5260	5251.668	5268.081	5250 - 5350	PASS
			5320	5311.030	5328.951	5250 - 5350	PASS
			5500	5491.390	5508.709	5470 - 5725	PASS
			5700	5691.294	5708.428	5470 - 5725	PASS
			5745	5736.466	5753.400	5725 - 5850	PASS
			5825	5816.647	5833.345	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 40M	ANT1	5190	5171.910	5207.178	5150 - 5250	PASS
			5230	5211.752	5247.996	5150 - 5250	PASS
			5270	5251.865	5287.749	5250 - 5350	PASS
			5310	5291.353	5327.798	5250 - 5350	PASS
			5510	5491.072	5527.812	5470 - 5725	PASS
			5670	5651.950	5687.466	5470 - 5725	PASS
			5755	5736.495	5772.890	5725 - 5850	PASS
			5795	5776.780	5812.426	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 80M	ANT1	5210	5172.288	5247.814	5150 - 5250	PASS
			5290	5252.038	5327.341	5250 - 5350	PASS
			5530	5491.330	5567.556	5470 - 5725	PASS
			5775	5737.711	5812.699	5725 - 5850	PASS
30	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 20M	ANT1	5180	5171.938	5188.750	5150 - 5250	PASS
			5240	5231.960	5248.190	5150 - 5250	PASS
			5260	5251.381	5268.244	5250 - 5350	PASS
			5320	5311.959	5328.004	5250 - 5350	PASS
			5500	5491.510	5508.328	5470 - 5725	PASS
			5700	5691.245	5708.244	5470 - 5725	PASS
			5745	5736.873	5753.543	5725 - 5850	PASS
			5825	5816.843	5833.970	5725 - 5850	PASS

	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 40M	ANT1	5190	5171.991	5207.016	5150 - 5250	PASS
			5230	5211.808	5247.485	5150 - 5250	PASS
			5270	5251.632	5287.181	5250 - 5350	PASS
			5310	5291.561	5327.293	5250 - 5350	PASS
			5510	5491.452	5527.749	5470 - 5725	PASS
			5670	5651.426	5687.834	5470 - 5725	PASS
			5755	5736.961	5772.531	5725 - 5850	PASS
			5795	5776.702	5812.347	5725 - 5850	PASS
	802.11ac 80M	ANT1	5210	5172.705	5247.465	5150 - 5250	PASS
			5290	5252.524	5327.709	5250 - 5350	PASS
			5530	5492.839	5567.736	5470 - 5725	PASS
			5775	5737.325	5812.309	5725 - 5850	PASS
40	802.11ac 20M	ANT1	5180	5171.245	5188.228	5150 - 5250	PASS
			5240	5231.141	5248.962	5150 - 5250	PASS
			5260	5251.762	5268.768	5250 - 5350	PASS
			5320	5311.462	5328.526	5250 - 5350	PASS
			5500	5491.949	5508.855	5470 - 5725	PASS
			5700	5691.765	5708.381	5470 - 5725	PASS
			5745	5736.568	5753.648	5725 - 5850	PASS
			5825	5816.596	5833.192	5725 - 5850	PASS
	802.11ac 40M	ANT1	5190	5171.338	5207.952	5150 - 5250	PASS
			5230	5211.856	5247.972	5150 - 5250	PASS
			5270	5251.134	5287.285	5250 - 5350	PASS
			5310	5291.537	5327.263	5250 - 5350	PASS
			5510	5491.211	5527.097	5470 - 5725	PASS
			5670	5651.198	5687.119	5470 - 5725	PASS
			5755	5736.700	5772.636	5725 - 5850	PASS
			5795	5776.517	5812.367	5725 - 5850	PASS
	802.11ac 80M	ANT1	5210	5172.102	5247.506	5150 - 5250	PASS
			5290	5252.971	5327.876	5250 - 5350	PASS
			5530	5492.248	5567.336	5470 - 5725	PASS
			5775	5737.212	5812.471	5725 - 5850	PASS
50	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict

	802.11ac 20M	ANT1	5180	5171.233	5188.442	5150 - 5250	PASS
			5240	5231.615	5248.992	5150 - 5250	PASS
			5260	5251.830	5268.355	5250 - 5350	PASS
			5320	5311.305	5328.166	5250 - 5350	PASS
			5500	5491.255	5508.386	5470 - 5725	PASS
			5700	5691.780	5708.634	5470 - 5725	PASS
			5745	5736.618	5753.715	5725 - 5850	PASS
			5825	5816.717	5833.534	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 40M	ANT1	5190	5172.702	5207.775	5150 - 5250	PASS
			5230	5212.299	5247.703	5150 - 5250	PASS
			5270	5251.955	5287.800	5250 - 5350	PASS
			5310	5291.793	5327.871	5250 - 5350	PASS
			5510	5491.825	5527.630	5470 - 5725	PASS
			5670	5651.460	5687.260	5470 - 5725	PASS
			5755	5736.887	5772.854	5725 - 5850	PASS
			5795	5776.471	5812.249	5725 - 5850	PASS
	Test Mode	Antenna	Freq (MHz)	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	802.11ac 80M	ANT1	5210	5172.939	5247.170	5150 - 5250	PASS
			5290	5252.943	5327.217	5250 - 5350	PASS
			5530	5492.755	5567.364	5470 - 5725	PASS
			5775	5737.935	5812.145	5725 - 5850	PASS

5.4. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

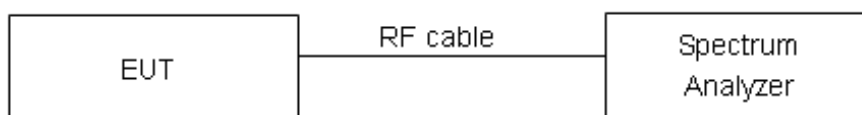
Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 1MHz, VBW =3MHz for the band 5.150-5.250GHz, 5.250-5.350GHz, 5.470-5.725GHz.
Set RBW = 470kHz, VBW =1.5MHz for the band 5.725-5.850GHz

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 an indoor access point operating in the band 5.15-5.25 GHz, 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.

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 $k = 2$, $U = 0.75\text{dB}$.

Test Results:
U-NII-1

Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	5.16	5.16	11	PASS
	40/5200	6.49	6.49	11	PASS
	48/5240	6.52	6.52	11	PASS
802.11n HT20	36/5180	4.48	4.48	11	PASS
	40/5200	6.74	6.74	11	PASS
	48/5240	6.56	6.56	11	PASS
802.11n HT40	38/5190	0.77	0.93	11	PASS
	46/5230	3.39	3.55	11	PASS
802.11ac VHT20	36/5180	4.76	5.09	11	PASS
	40/5200	6.23	6.56	11	PASS
	48/5240	6.45	6.78	11	PASS
802.11ac VHT40	38/5190	0.32	0.48	11	PASS
	46/5230	3.09	3.25	11	PASS
802.11ac VHT80	42/5210	-4.51	-4.18	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	6.09	6.09	11	PASS
	60/5300	6.55	6.55	11	PASS
	64/5320	4.69	4.69	11	PASS
802.11n HT20	52/5260	5.80	5.80	11	PASS
	60/5300	5.65	5.65	11	PASS
	64/5320	4.43	4.43	11	PASS
802.11n HT40	54/5270	2.70	2.86	11	PASS
	62/5310	-0.80	-0.64	11	PASS
802.11ac VHT20	52/5260	5.63	5.96	11	PASS
	60/5300	6.24	6.57	11	PASS
	64/5320	4.31	4.64	11	PASS
802.11ac VHT40	54/5270	2.67	2.83	11	PASS
	62/5310	-0.74	-0.58	11	PASS
802.11ac VHT80	58/5290	-5.17	-4.84	11	PASS

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

U-NII-2C

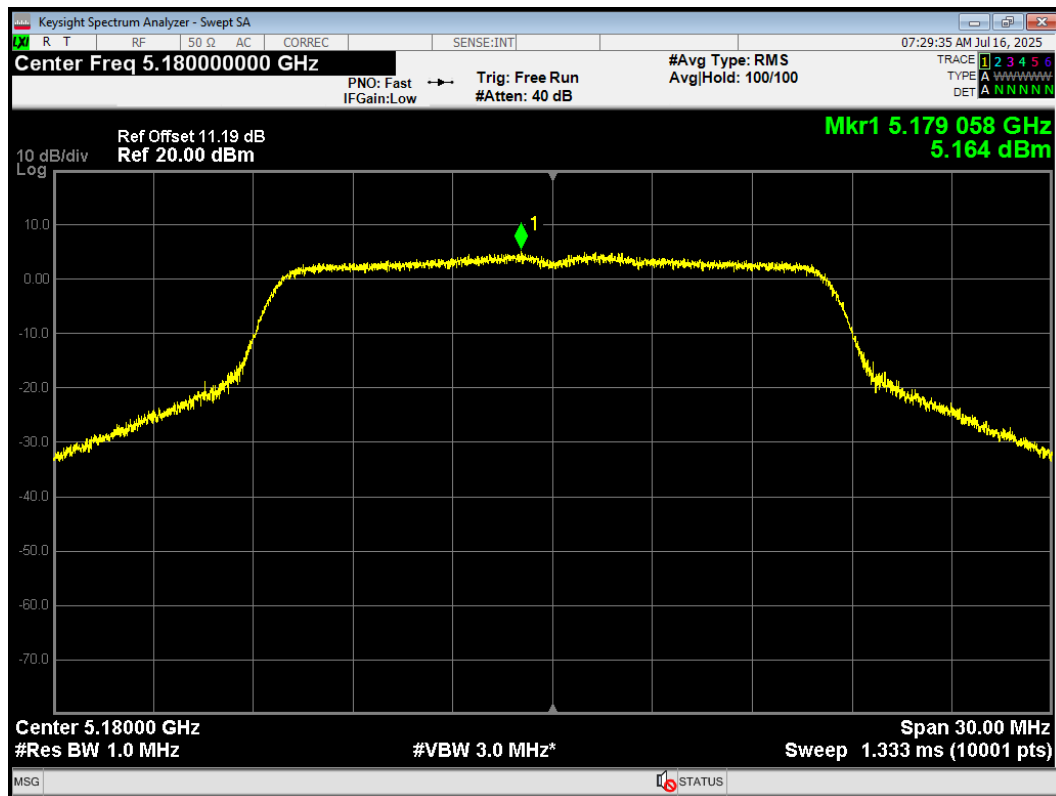
Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	6.37	6.37	11	PASS
	120/5600	6.22	6.22	11	PASS
	140/5700	1.94	1.94	11	PASS
802.11n HT20	100/5500	5.62	5.62	11	PASS
	120/5600	5.78	5.78	11	PASS
	140/5700	1.81	1.81	11	PASS
802.11n HT40	102/5510	2.32	2.48	11	PASS
	118/5590	3.07	3.23	11	PASS
	134/5670	2.24	2.40	11	PASS
802.11ac VHT20	100/5500	5.90	6.23	11	PASS
	120/5600	5.91	6.24	11	PASS
	140/5700	1.88	2.21	11	PASS
802.11ac VHT40	102/5510	2.19	2.35	11	PASS
	118/5590	2.88	3.04	11	PASS
	134/5670	2.34	2.50	11	PASS
802.11ac VHT80	122/5610	-0.60	-0.27	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-3

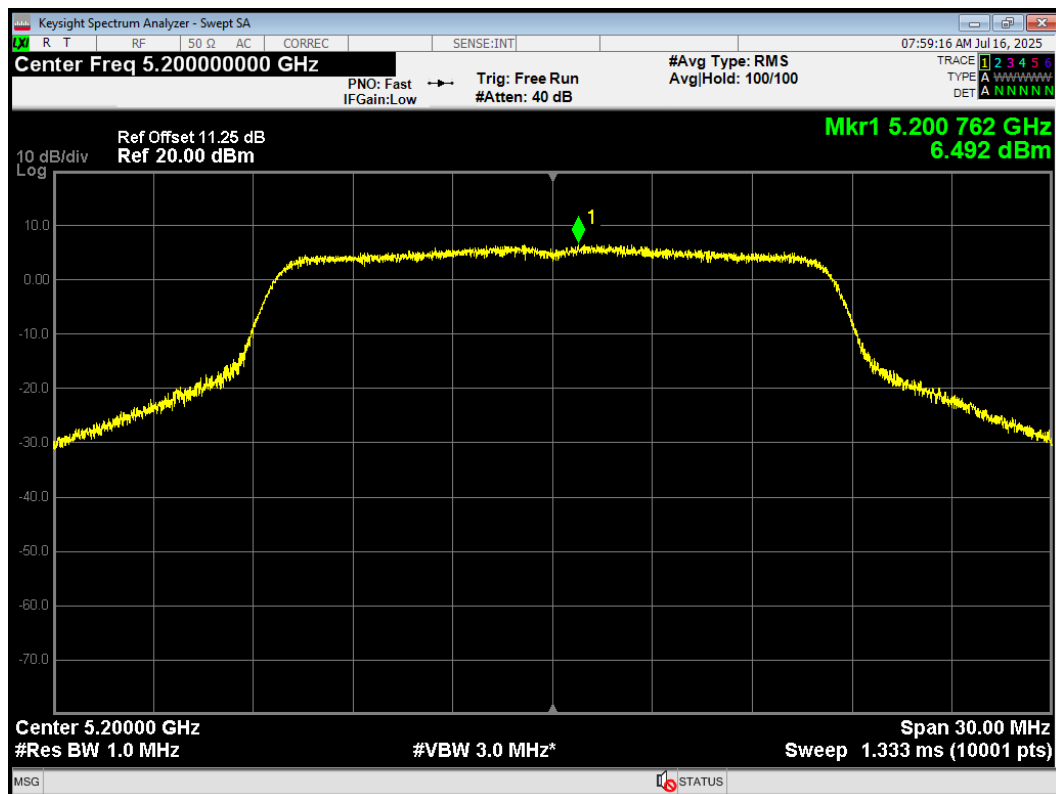
Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	149/5745	3.04	2.95	30	PASS
	157/5785	2.85	2.76	30	PASS
	165/5825	2.59	2.50	30	PASS
802.11n HT20	149/5745	2.69	2.60	30	PASS
	157/5785	2.31	2.22	30	PASS
	165/5825	2.45	2.36	30	PASS
802.11n HT40	151/5755	-0.50	-0.43	30	PASS
	159/5795	-0.65	-0.58	30	PASS
802.11ac VHT20	149/5745	2.35	2.59	30	PASS
	157/5785	2.34	2.58	30	PASS
	165/5825	2.61	2.85	30	PASS
802.11ac VHT40	151/5755	-0.77	-0.70	30	PASS
	159/5795	-0.66	-0.59	30	PASS
802.11ac VHT80	155/5775	-4.66	-4.42	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)					

U-NII-1

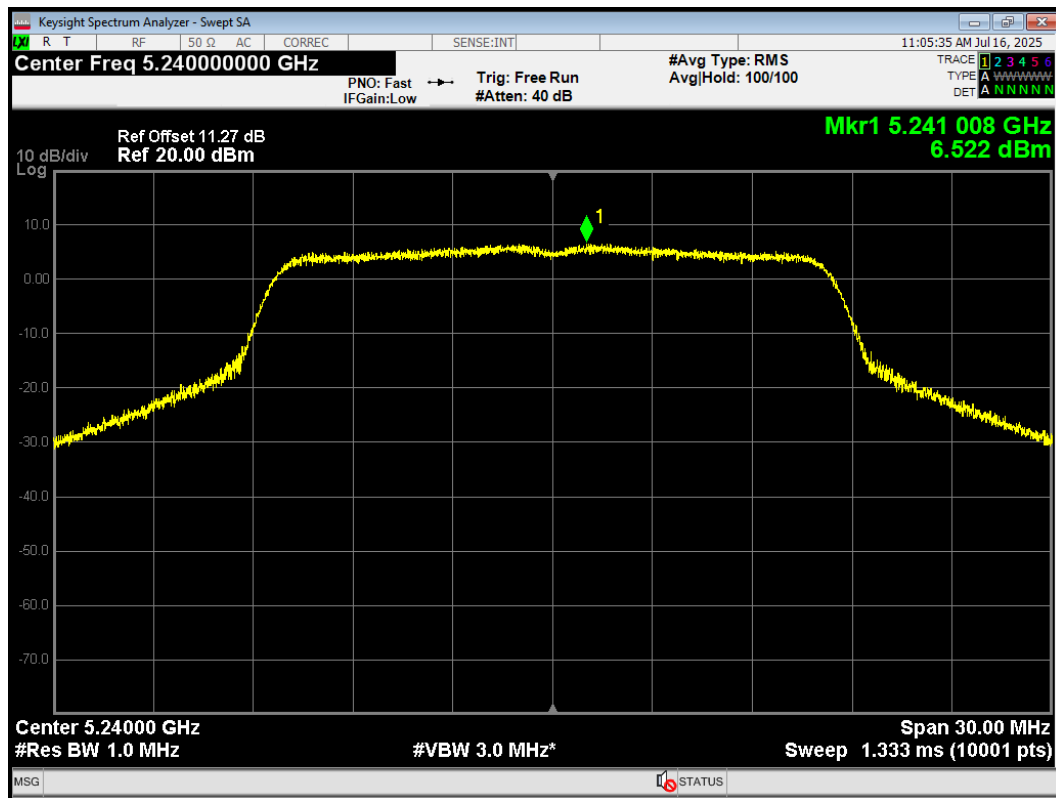
PSD 802.11a 5180MHz



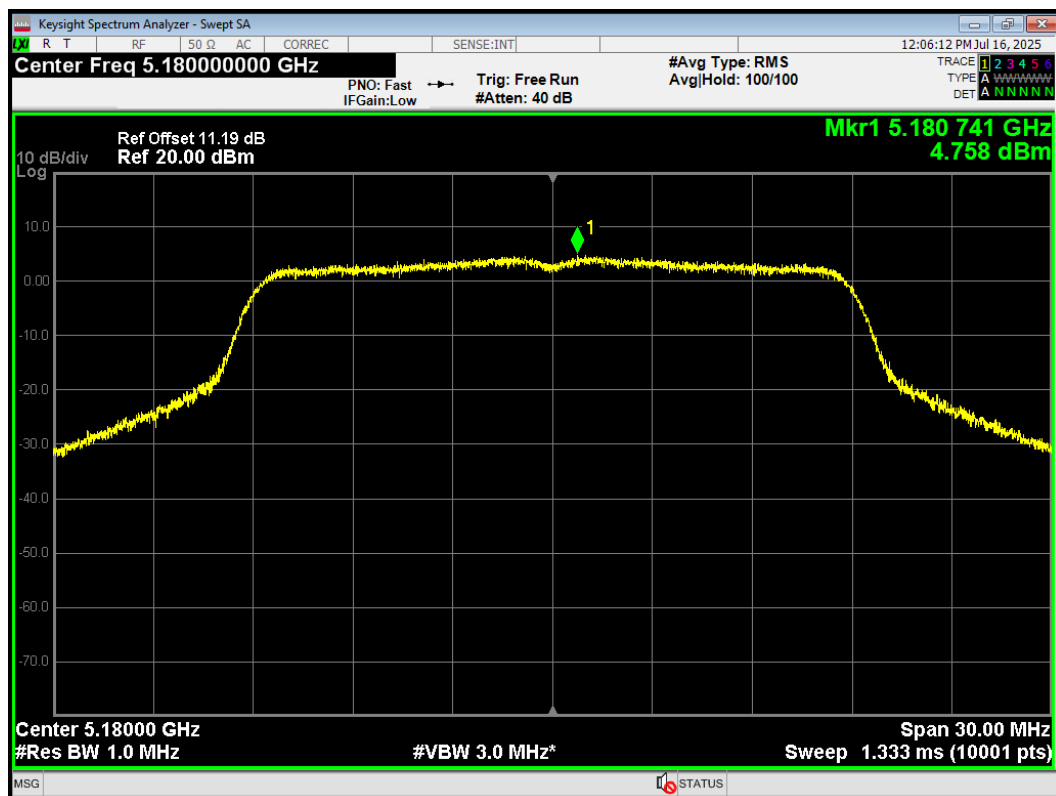
PSD 802.11a 5200MHz



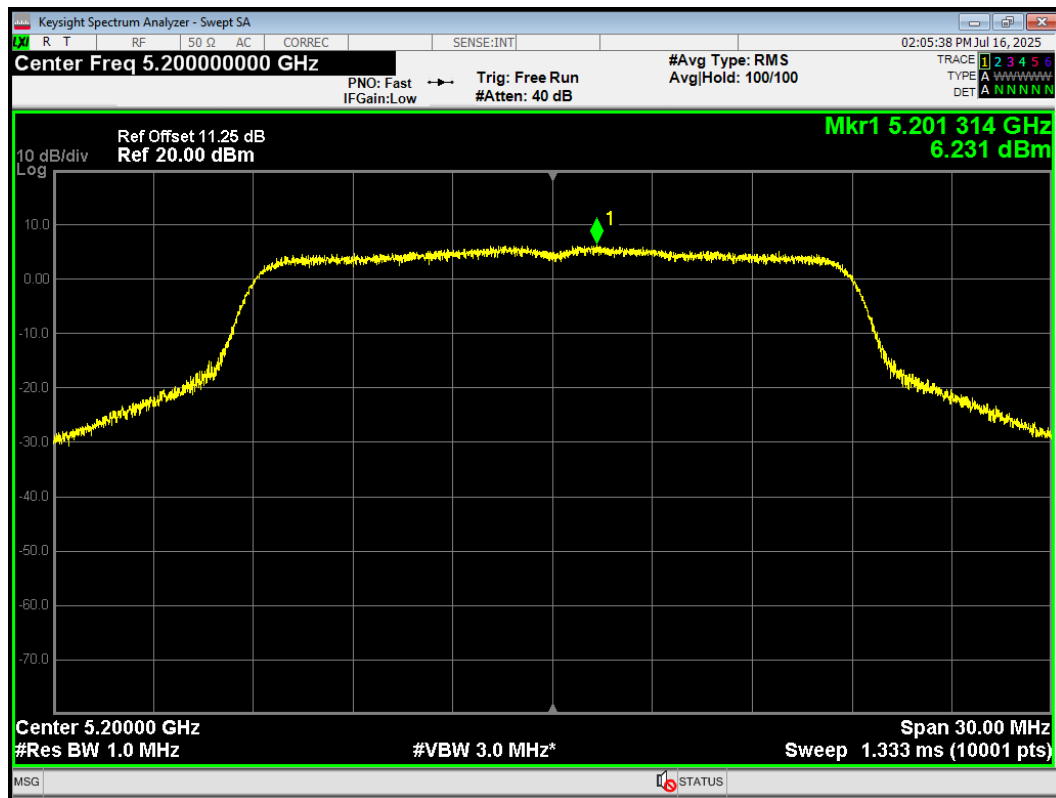
PSD 802.11a 5240MHz



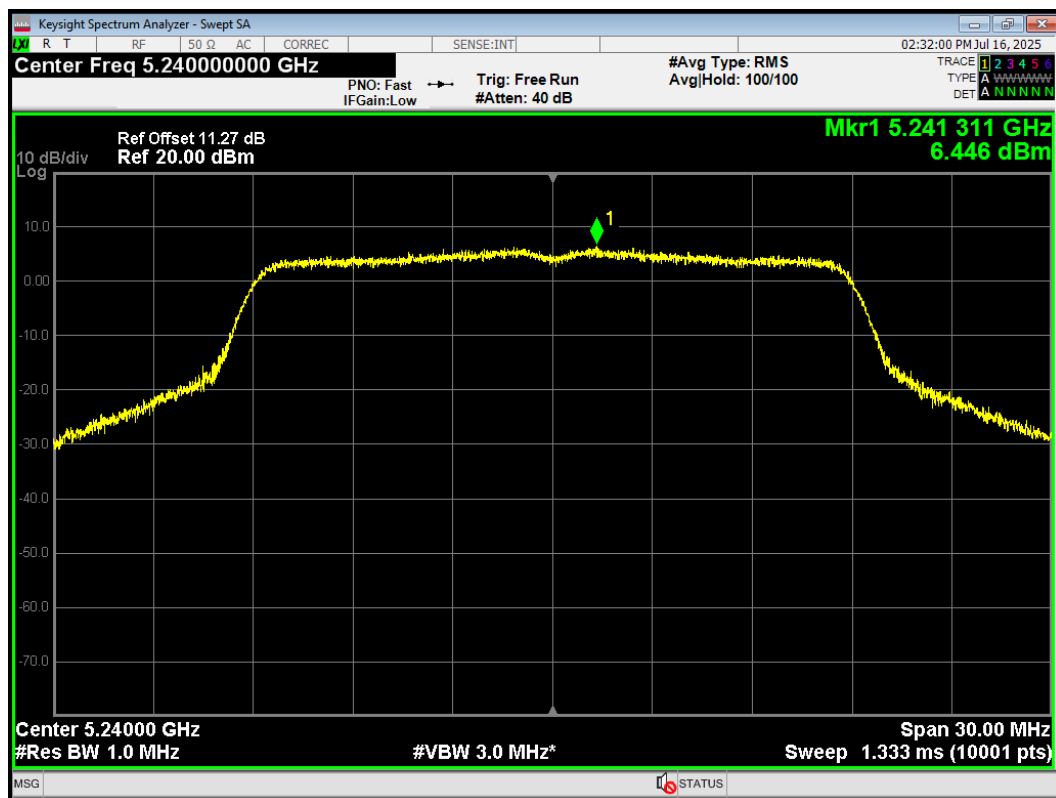
PSD 802.11ac(VHT20) 5180MHz



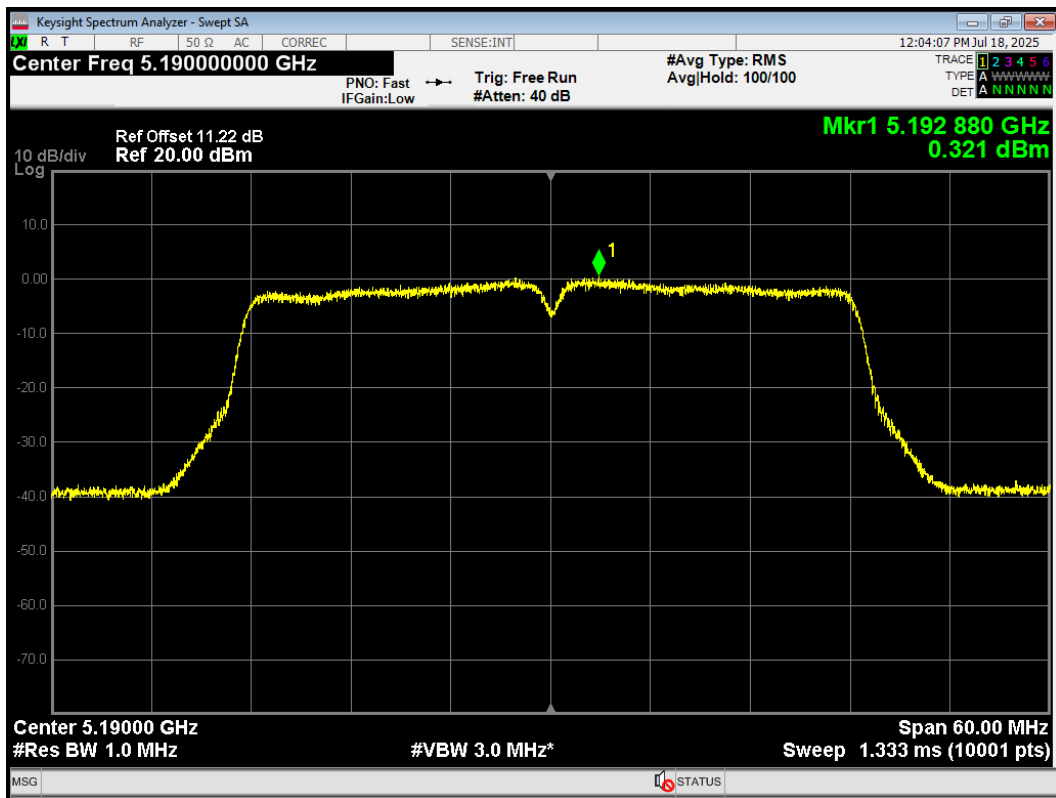
PSD 802.11ac(VHT20) 5200MHz



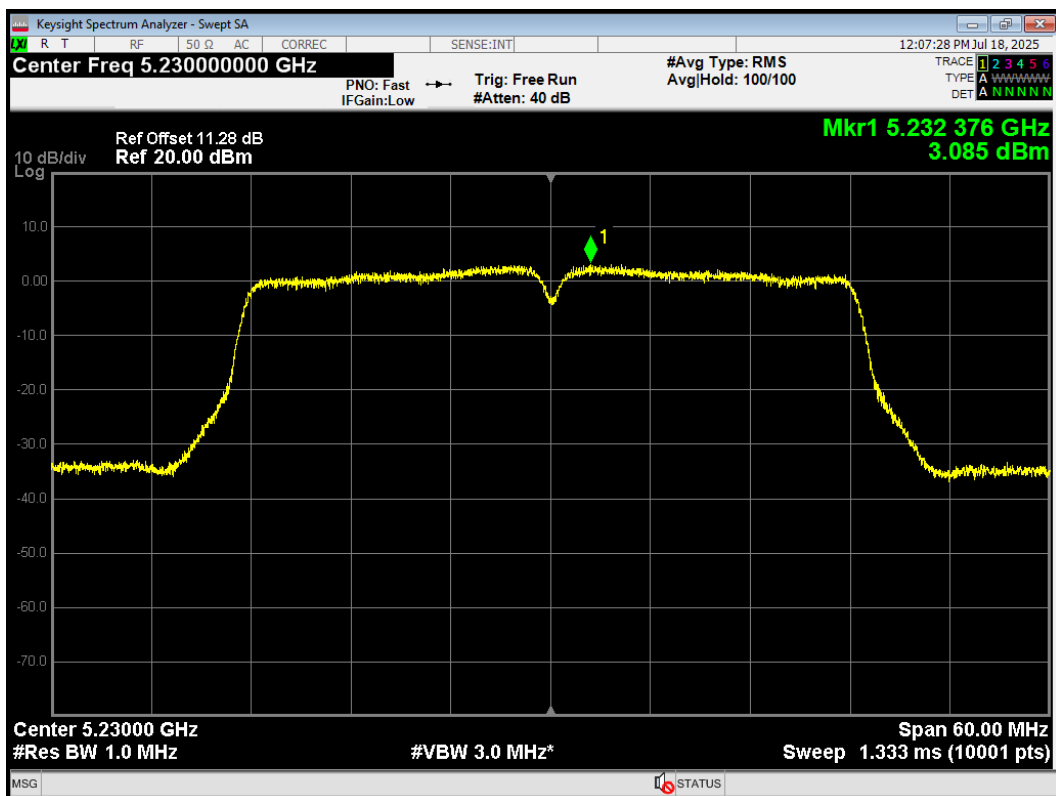
PSD 802.11ac(VHT20) 5240MHz



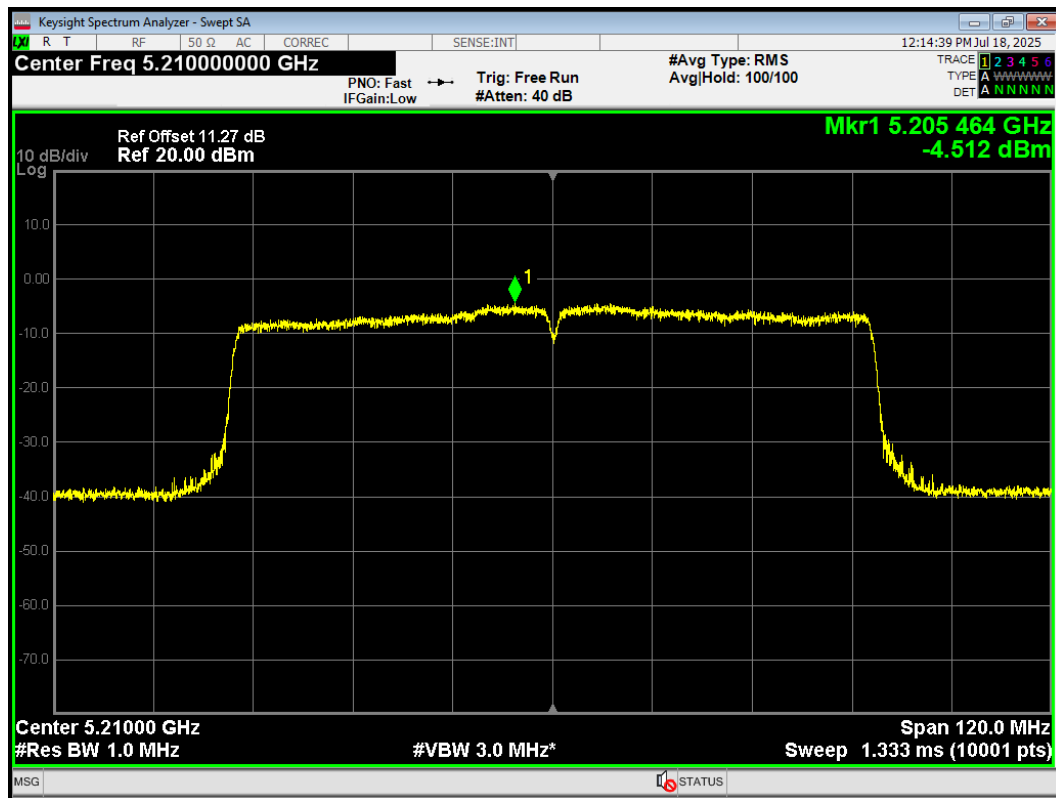
PSD 802.11ac(VHT40) 5190MHz



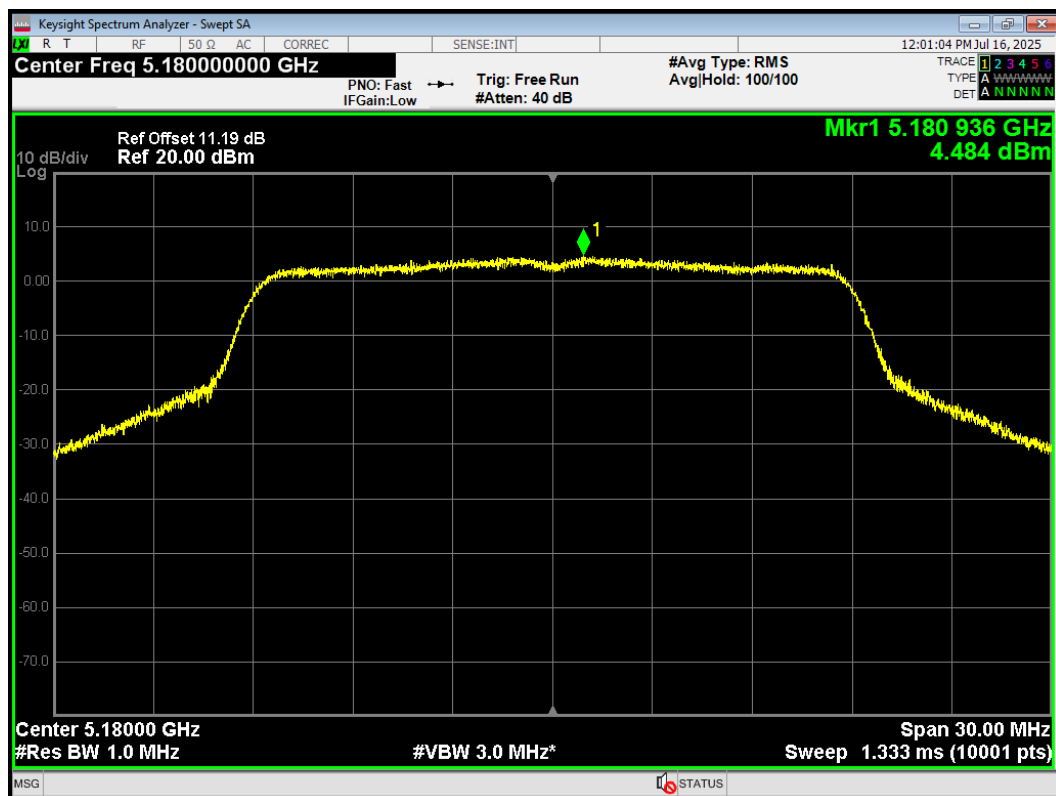
PSD 802.11ac(VHT40) 5230MHz



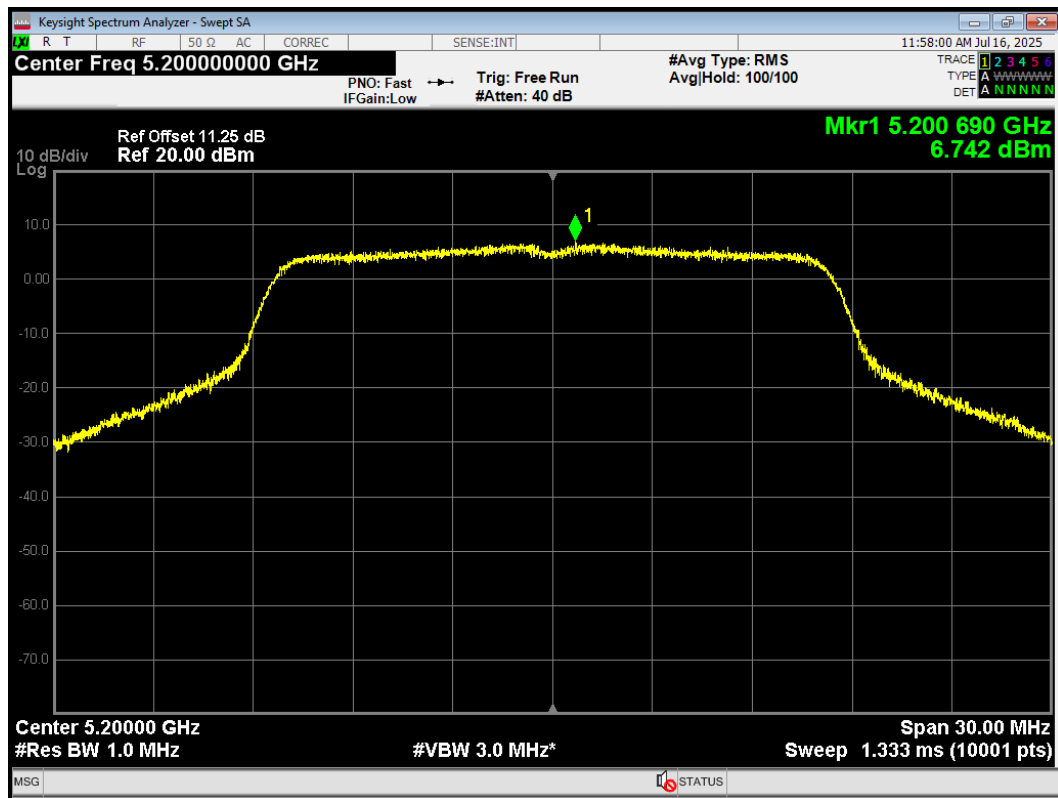
PSD 802.11ac(VHT80) 5210MHz



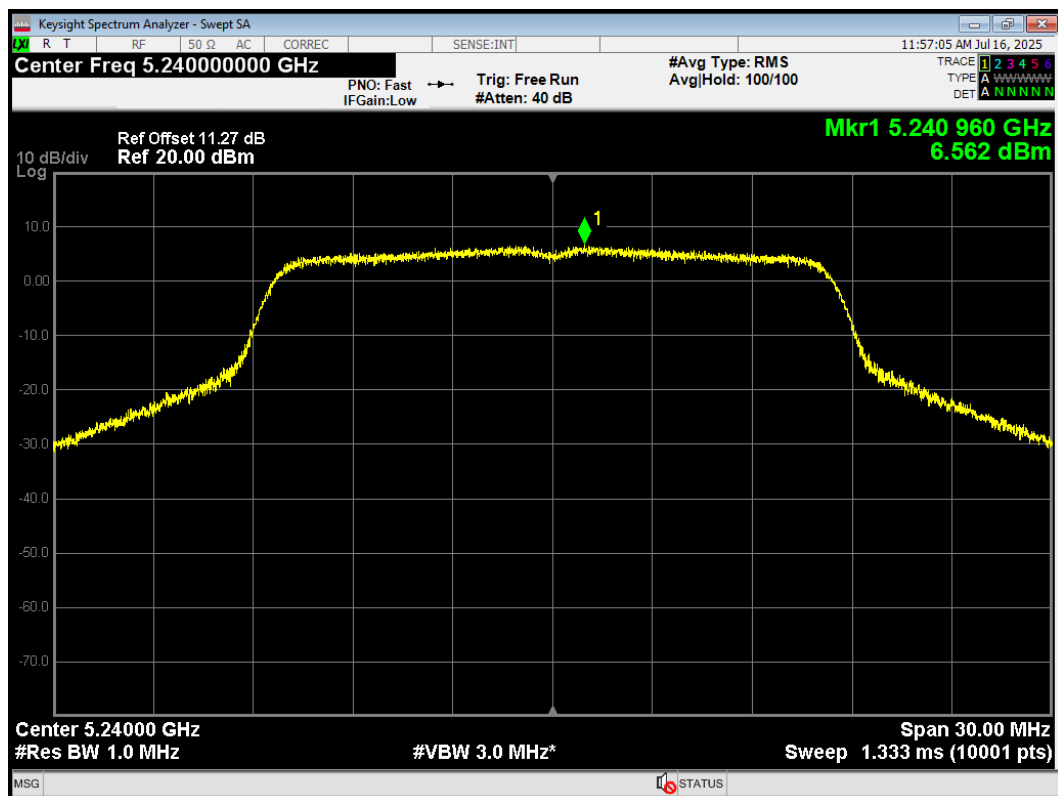
PSD 802.11n(HT20) 5180MHz



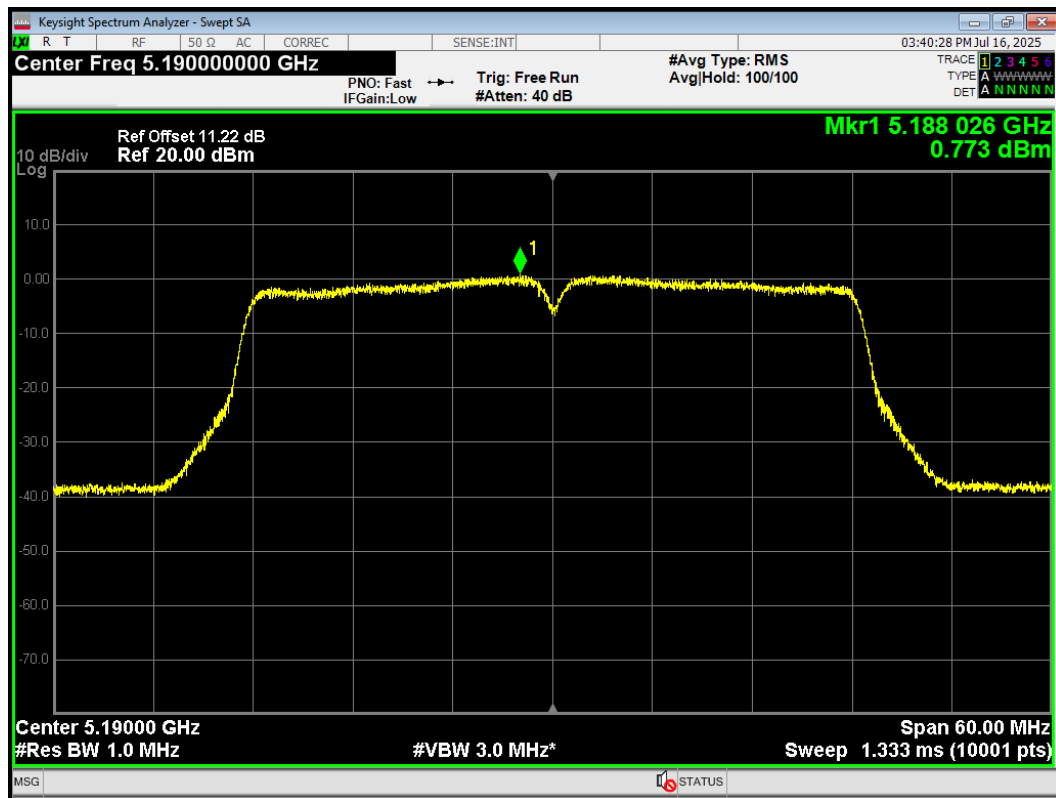
PSD 802.11n(HT20) 5200MHz



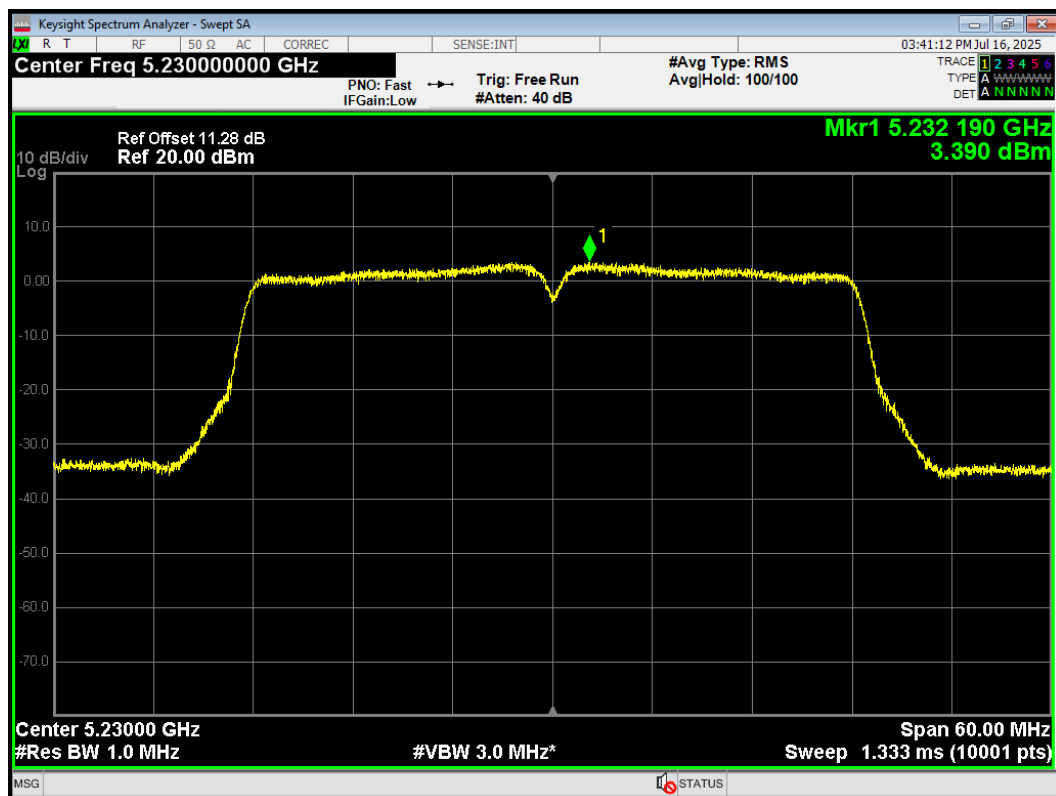
PSD 802.11n(HT20) 5240MHz



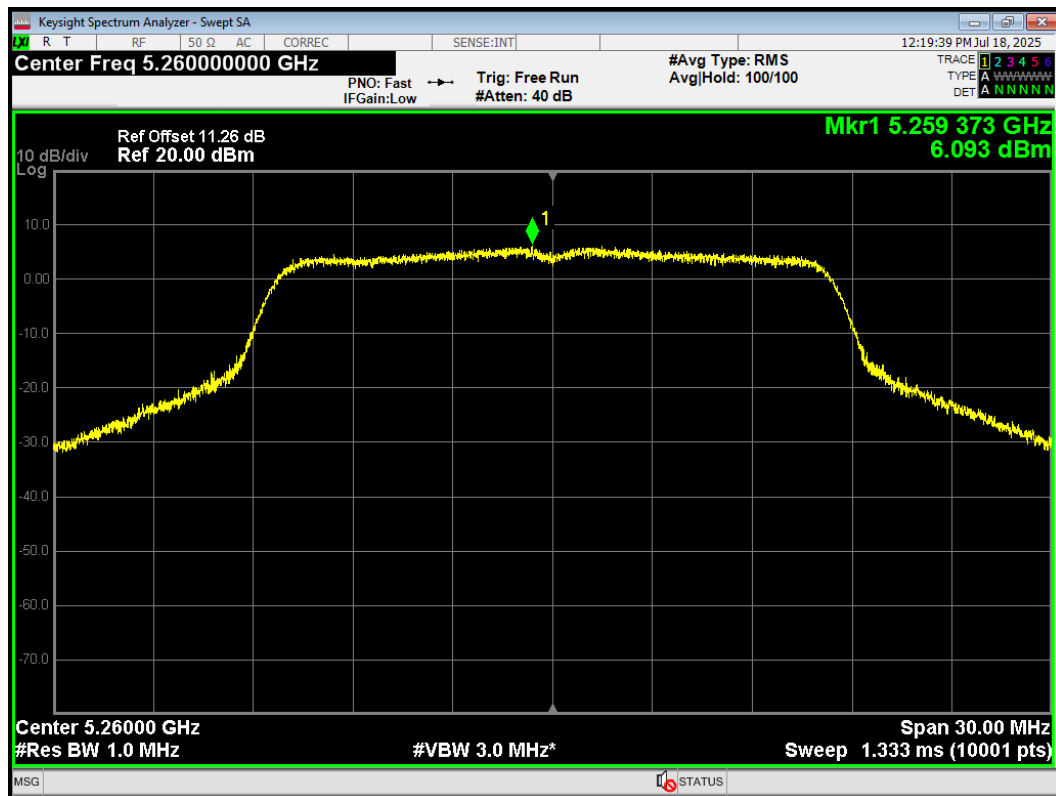
PSD 802.11n(HT40) 5190MHz



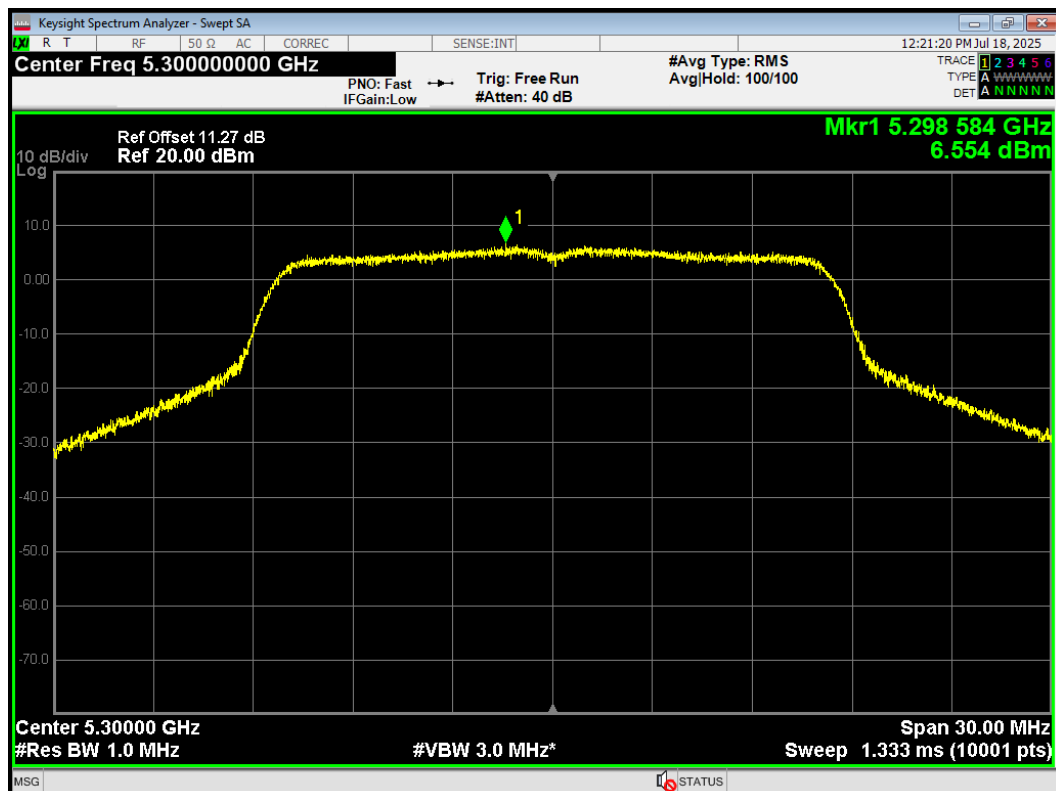
PSD 802.11n(HT40) 5230MHz



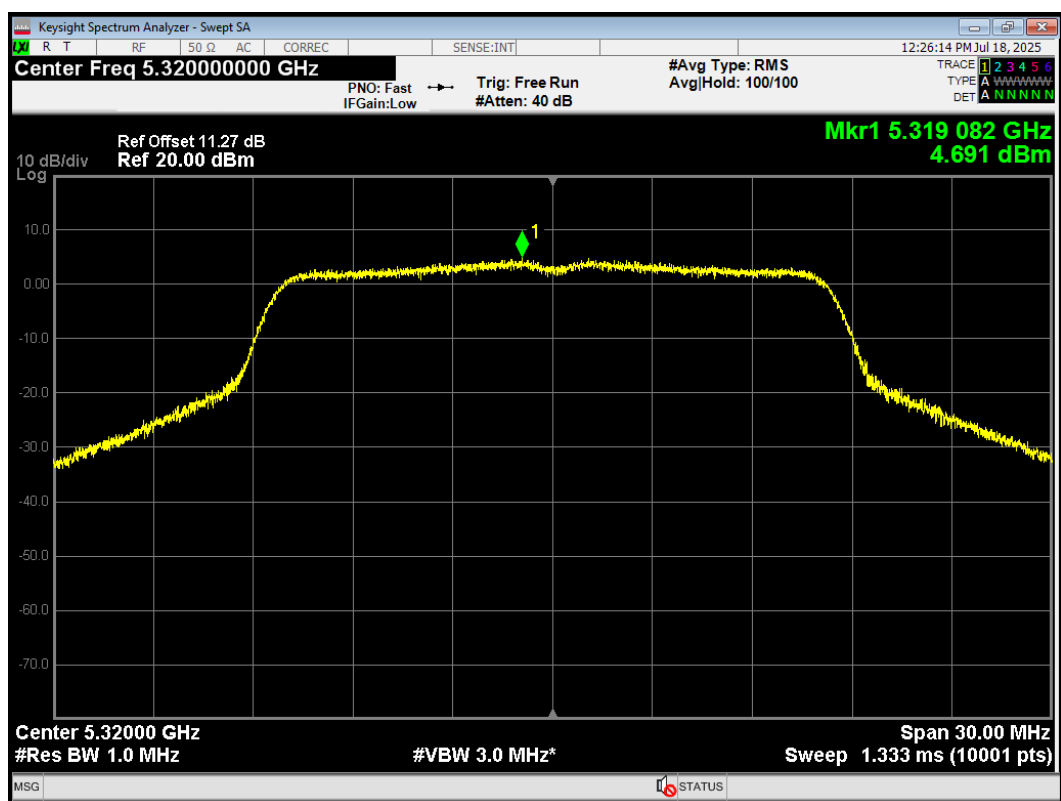
PSD 802.11a 5260MHz



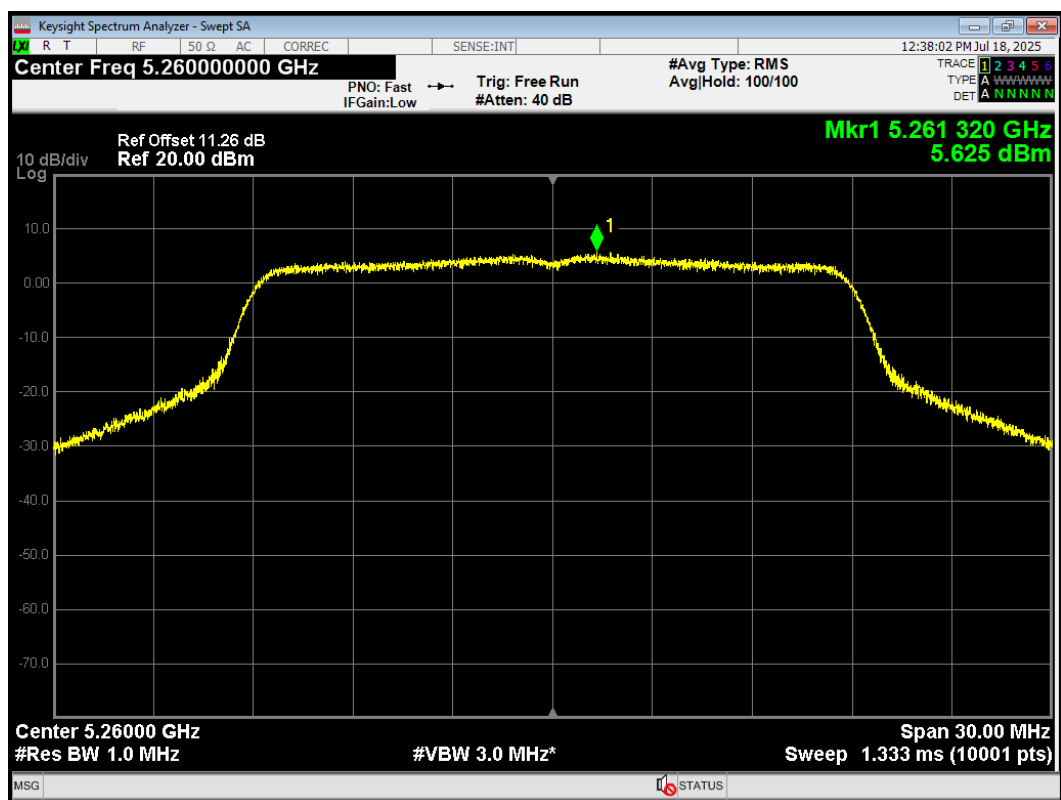
PSD 802.11a 5300MHz



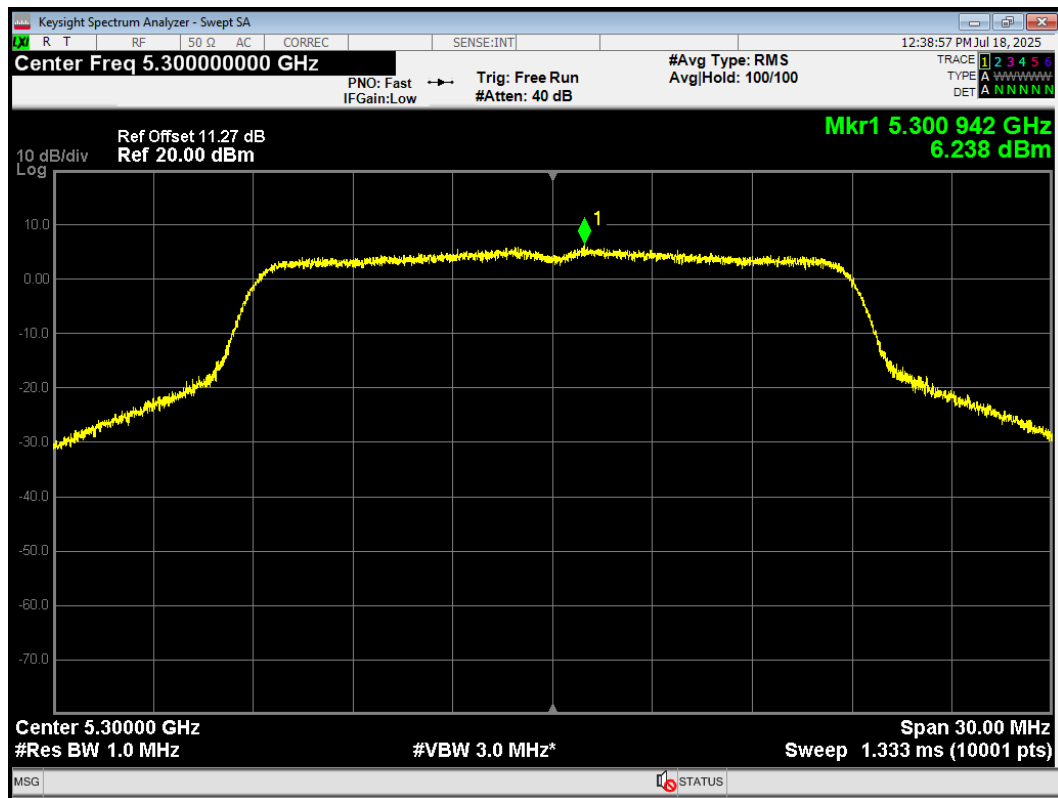
PSD 802.11a 5320MHz



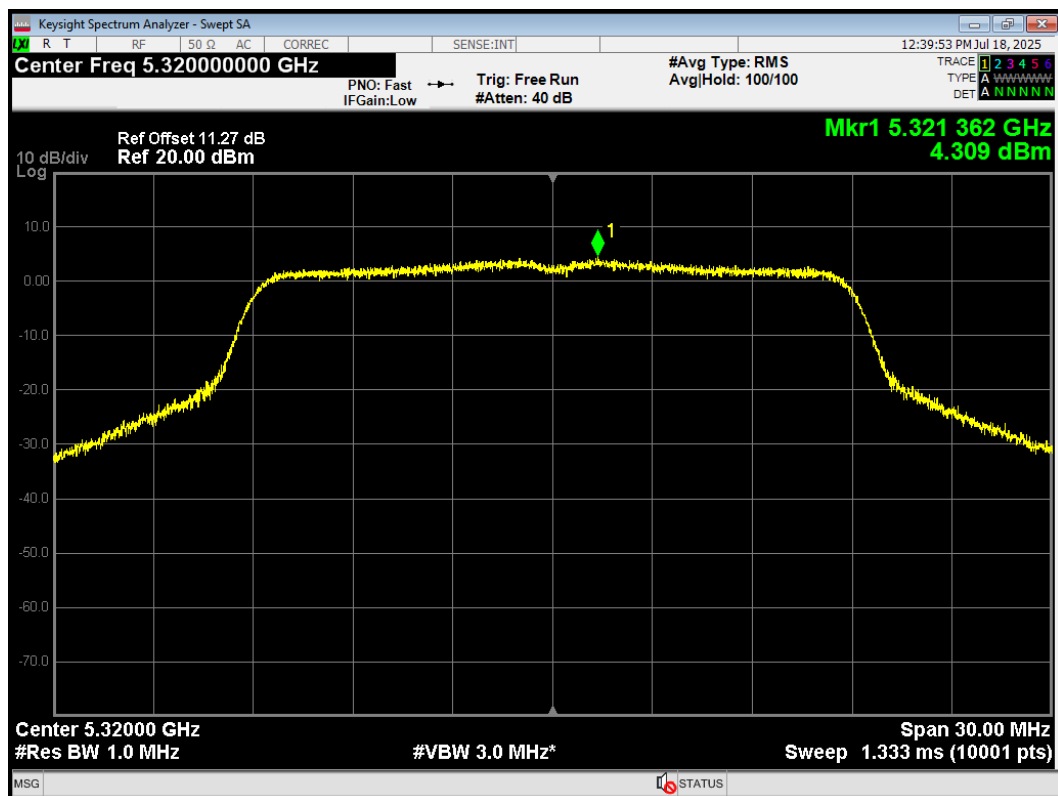
PSD 802.11ac(VHT20) 5260MHz



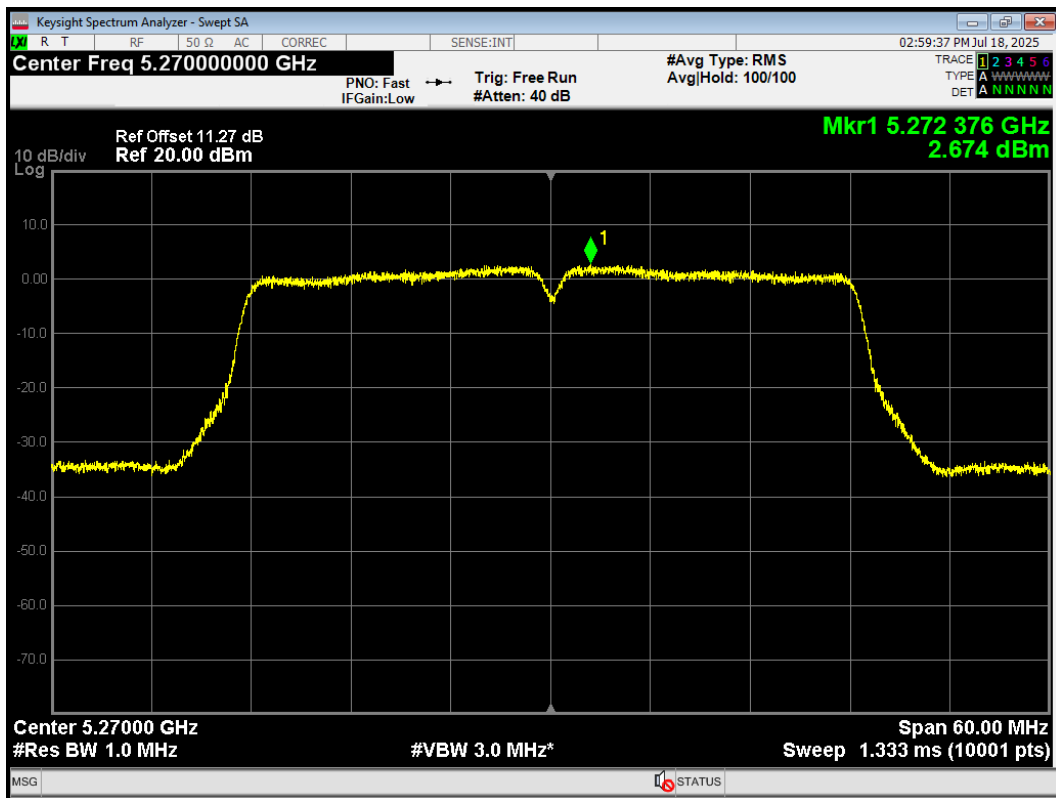
PSD 802.11ac(VHT20) 5300MHz



PSD 802.11ac(VHT20) 5320MHz



PSD 802.11ac(VHT40) 5270MHz



PSD 802.11ac(VHT40) 5310MHz

