

RF TEST REPORT

Applicant Nokia Shanghai Bell Co., Ltd.

FCC ID 2ADZRG1426GA

Product NOKIA ONT

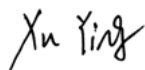
Brand NOKIA

Model G-1426G-A

Report No. R2305A0552-R1

Issue Date August 31, 2023

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2022)**. 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	Maximum output power	15.247(b)(3)	PASS
2	99% Bandwidth and 6dB Bandwidth	15.247(a)(2) C63.10 6.9	PASS
3	Power spectral density	15.247(e)	PASS
4	Band Edge	15.247(d)	PASS
5	Spurious RF Conducted Emissions	15.247(d)	PASS
6	Unwanted Emissions	15.247(d),15.205,15.209	PASS
7	Conducted Emissions	15.207	PASS
Date of Testing: July 5, 2023 ~ August 24, 2023 Date of Sample Received: July 4, 2023			
Note: All indications of Pass/Fail in this report are opinions expressed by 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 **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)

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

A2LA (Certificate Number: 3857.01)

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

1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
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City: Shanghai
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E-mail: xukai@ta-shanghai.com

2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	Nokia Shanghai Bell Co., Ltd.
Applicant address	No.388, Ningqiao Rd, Pilot Free Trade Zone Shanghai, 201206 P.R. China
Manufacturer	Nokia of America Corporation
Manufacturer address	2301 Sugar Bush Rd. Raleigh, NC 27612

2.2. General Information

EUT Description			
Model	G-1426G-A		
SN	ALCLFCC95588		
Hardware Version	PEM2		
Software Version	3TN00383		
Power Supply	AC adapter		
Antenna Type	Antenna 1 / Antenna 2	External Antenna	
	Antenna 3	PCB onboard Antenna	
Antenna Connector	IPEX/Cable antenna (meet with the standard FCC Part 15.203 requirement)		
Direction Gain	Direction Gain	Power (dBi)	PSD (dBi)
	Antenna	MIMO	
	Antenna 1 + Antenna 2	4.61	7.51
	Antenna 2 + Antenna 3	4.44	5.13
	Antenna	with Beamforming	
	Antenna 1 + Antenna 2	7.51	7.51
	Antenna 2 + Antenna 3	5.13	5.13
Operating Frequency Range(s)	802.11b/g/n(HT20)/ax(HE20): 2412 ~ 2462 MHz 802.11n(HT40)/ax(HE40): 2422 ~ 2452 MHz		
Modulation Type	802.11b: DSSS 802.11g/n: OFDM 802.11ax SU: OFDM		
Max. Output Power	28.98 dBm		
EUT Accessory			
Adapter 1	Manufacturer: SHENZHEN RUIDE ELECTRONIC INDUSTRIAL CO.,LTD Model: RD1201500-C55-198MG Part Number: BW120150-UC6C-LL05; BW120150-UC6C-HH00		
Adapter 2	Manufacturer: SHENZHEN RUIDE ELECTRONIC INDUSTRIAL CO.,LTD Model: RD1201500-C55-198OG		

	Part Number: BW120150-EC6C-LL05; BW120150-EC6C-HH00
Adapter 3	Manufacturer: SHENZHEN RUIDE ELECTRONIC INDUSTRIAL CO.,LTD Model: RD1201500-C55-198YG Part Number: BW120150-YC6C-LL05
Adapter 4	Manufacturer: XIAMEN KELI ELECTRONICS CO.,LTD Model: KL-WA120150-H1 Part Number: SW-WB330TEA; SW-WB330TEC
Adapter 5	Manufacturer: XIAMEN KELI ELECTRONICS CO.,LTD Model: KL-AD3060VA Part Number: SW-WB330TC6; SW-WB330TC7
Adapter 6	Manufacturer: XIAMEN KELI ELECTRONICS CO.,LTD Model: KL-AD3060VAB Part Number: SW-WB330BA
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.	

Configuration	Configuration 1	Configuration 2
Model	G-1426G-A	G-1426G-A
USB	with USB	without USB
Others	the same	
During the test, the preliminary test was performed in all Configuration, Configuration 1 is selected as the worst condition. The test data of the worst-case condition was recorded in this report.		

Auxiliary test equipment

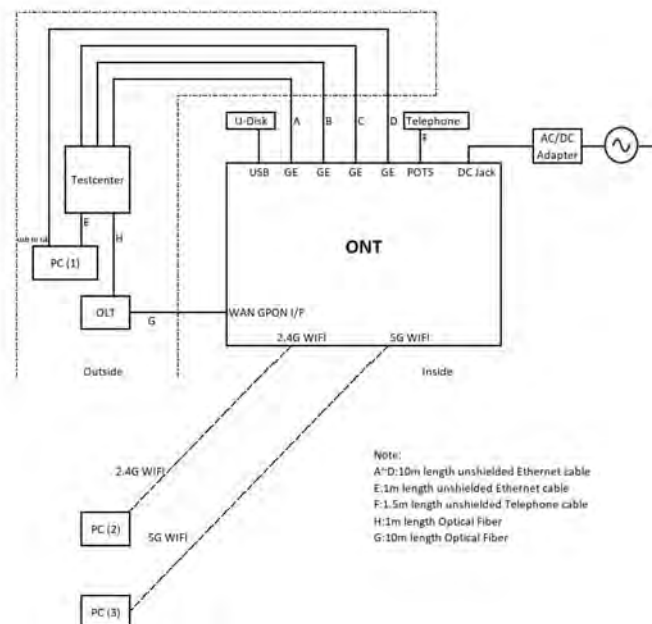
No.	Name	Brand name	Model
1	Testcenter	Spirent	SPT-C1
2	OLT	NOKIA	7362 ISAM DF-16GW
3	Telephone	BOTEL	HCD6238(20)P/TSDL13
4	U-Disk	SanDisk	Cruzer Blade 32GB/SDCZ74-032G-Z35
5	PC (1)	HP	EliteBook 745 G3
6	PC (2), PC (3)	ThinkPad	T480

Hardware code information

Configuration List:

Brand Name	Model Name	ONT Package Part Number (KIT Code)	ONT Enclosure Part Number (EMA Code)
NOKIA	G-1426G-A	3TN00456XXXX (X can be any letter from A to Z or blank)	3TN00384XXXX (X can be any letter from A to Z or blank)

Explanation of the part number: XXXX in the part number varies according to different customer markets, the products have no differences on hardware, which have no impact on the EMC and Safety.



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 15C (2022) Radio Frequency Devices

ANSI C63.10-2013

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

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.

The radiated 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 lie-down position (Y axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

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.

Test Mode	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ax HE20	MCS0
802.11ax HE40	MCS0

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	CDD/ MIMO (Ant 1 + Ant 2)	CDD/ MIMO (Ant 2 + Ant 3)	Beamforming (Ant 1 + Ant 2)	Beamforming (Ant 2 + Ant 3)
Maximum output power	O	O	O	O
6dB Bandwidth	O	--	--	--
Band Edge	O	--	--	--
Power Spectral Density	O	O	O	O
Spurious RF Conducted Emissions	O	--	--	--
Unwanted Emissions	O	--	--	--
Conducted Emission	O	--	--	--
Note: "O": test all bands				

5. Test Case Results

5.1. Maximum output power

Ambient Condition

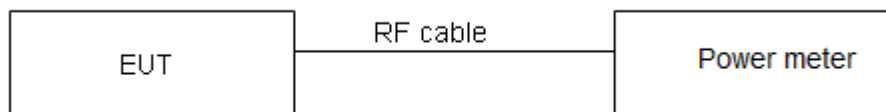
Temperature	Relative humidity
20°C ~ 25°C	45% ~ 50%

Methods of Measurement

During the process of the testing, The EUT was connected to Power meter with a known loss. The EUT is max power transmission with proper modulation.

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

Test Setup



Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz: 1 Watt."

Average Output Power	$\leq 1W$ (30dBm)
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Measurement Uncertainty

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

Test Results

Test Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11b	0.9877	0.00
802.11g	0.9316	0.31
802.11n HT20	0.9266	0.33
802.11n HT40	0.8626	0.64
802.11ax HE20	0.9081	0.42
802.11ax HE40	0.8380	0.77
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

MIMO

Antenna 1 + Antenna 2

Test Mode	Carrier frequency (MHz) / Channel	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11b	2412/CH 1	21.45	21.45	21.93	21.93	24.70	30	PASS
	2417/CH 2	21.47	21.47	22.00	22.00	24.75	30	PASS
	2422/CH 3	22.49	22.49	23.14	23.14	25.84	30	PASS
	2427/CH 4	22.39	22.39	23.11	23.11	25.78	30	PASS
	2432/CH 5	25.56	25.56	26.20	26.20	28.90	30	PASS
	2437/CH 6	25.66	25.66	26.27	26.27	28.98	30	PASS
	2442/CH 7	24.35	24.35	25.19	25.19	27.80	30	PASS
	2447/CH 8	24.36	24.36	25.13	25.13	27.77	30	PASS
	2452/CH 9	23.32	23.32	24.00	24.00	26.68	30	PASS
	2457/CH 10	22.29	22.29	22.90	22.90	25.62	30	PASS
	2462/CH 11	22.30	22.30	22.98	22.98	25.67	30	PASS
802.11g	2412/CH 1	17.98	18.29	18.35	18.66	21.49	30	PASS
	2417/CH 2	19.99	20.30	20.47	20.78	23.55	30	PASS
	2422/CH 3	21.03	21.34	21.52	21.83	24.60	30	PASS
	2427/CH 4	21.99	22.30	22.56	22.87	25.60	30	PASS
	2432/CH 5	22.92	23.23	23.53	23.84	26.55	30	PASS
	2437/CH 6	23.94	24.25	24.50	24.81	27.55	30	PASS
	2442/CH 7	22.84	23.15	23.39	23.70	26.45	30	PASS
	2447/CH 8	21.83	22.14	22.42	22.73	25.46	30	PASS
	2452/CH 9	20.97	21.28	21.40	21.71	24.51	30	PASS
	2457/CH 10	19.90	20.21	20.37	20.68	23.46	30	PASS
	2462/CH 11	18.94	19.25	19.44	19.75	22.52	30	PASS
802.11n HT20	2412/CH 1	17.75	18.08	18.31	18.64	21.38	30	PASS
	2417/CH 2	19.81	20.14	20.32	20.65	23.41	30	PASS

	2422/CH 3	20.86	21.19	21.35	21.68	24.45	30	PASS
	2427/CH 4	21.94	22.27	22.39	22.72	25.51	30	PASS
	2432/CH 5	22.83	23.16	23.37	23.70	26.45	30	PASS
	2437/CH 6	23.77	24.10	24.48	24.81	27.48	30	PASS
	2442/CH 7	22.83	23.16	23.31	23.64	26.42	30	PASS
	2447/CH 8	21.71	22.04	22.29	22.62	25.35	30	PASS
	2452/CH 9	20.68	21.01	21.21	21.54	24.29	30	PASS
	2457/CH 10	19.70	20.03	20.16	20.49	23.27	30	PASS
	2462/CH 11	17.66	17.99	18.37	18.70	21.37	30	PASS
802.11n HT40	2422/CH 3	14.88	15.52	15.38	16.02	18.79	30	PASS
	2427/CH 4	15.70	16.34	16.28	16.92	19.65	30	PASS
	2432/CH 5	17.69	18.33	18.26	18.90	21.64	30	PASS
	2437/CH 6	19.84	20.48	20.43	21.07	23.80	30	PASS
	2442/CH 7	18.72	19.36	19.23	19.87	22.63	30	PASS
	2447/CH 8	17.67	18.31	18.17	18.81	21.58	30	PASS
	2452/CH 9	16.68	17.32	17.17	17.81	20.58	30	PASS
802.11ax HE20	2412/CH 1	17.31	17.73	17.64	18.06	20.91	30	PASS
	2417/CH 2	19.29	19.71	19.70	20.12	22.93	30	PASS
	2422/CH 3	20.38	20.80	20.83	21.25	24.04	30	PASS
	2427/CH 4	21.35	21.77	21.91	22.33	25.07	30	PASS
	2432/CH 5	22.39	22.81	22.90	23.32	26.08	30	PASS
	2437/CH 6	22.37	22.79	23.02	23.44	26.14	30	PASS
	2442/CH 7	21.20	21.62	21.88	22.30	24.98	30	PASS
	2447/CH 8	21.21	21.63	21.80	22.22	24.95	30	PASS
	2452/CH 9	20.16	20.58	20.71	21.13	23.87	30	PASS
	2457/CH 10	19.14	19.56	19.70	20.12	22.86	30	PASS
	2462/CH 11	18.13	18.55	18.71	19.13	21.86	30	PASS
802.11ax HE40	2422/CH 3	14.23	15.00	14.61	15.38	18.21	30	PASS
	2427/CH 4	15.13	15.90	15.56	16.33	19.13	30	PASS
	2432/CH 5	17.05	17.82	17.65	18.42	21.14	30	PASS
	2437/CH 6	19.18	19.95	19.80	20.57	23.28	30	PASS
	2442/CH 7	17.94	18.71	18.57	19.34	22.05	30	PASS
	2447/CH 8	16.99	17.76	17.47	18.24	21.02	30	PASS
	2452/CH 9	16.04	16.81	16.52	17.29	20.06	30	PASS

Note: 1.Average Power with duty factor = Average Power Measured +Duty cycle correction factor

2. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10 \log (10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$.

3. The manufacturer declared that the directional gain = 4.61dBi<6dBi. So the power limit is 30dBm.

MIMO
Antenna 2+ Antenna 3

Test Mode	Carrier frequency (MHz) / Channel	MIMO Antenna 2		MIMO Antenna 3		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11b	2412/CH 1	21.28	21.28	21.79	21.79	24.55	30	PASS
	2417/CH 2	21.31	21.31	21.90	21.90	24.63	30	PASS
	2422/CH 3	22.40	22.40	23.05	23.05	25.75	30	PASS
	2427/CH 4	22.28	22.28	23.08	23.08	25.71	30	PASS
	2432/CH 5	25.55	25.55	26.19	26.19	28.89	30	PASS
	2437/CH 6	25.43	25.43	26.14	26.14	28.81	30	PASS
	2442/CH 7	24.31	24.31	25.15	25.15	27.76	30	PASS
	2447/CH 8	24.35	24.35	25.00	25.00	27.70	30	PASS
	2452/CH 9	23.25	23.25	24.01	24.01	26.65	30	PASS
	2457/CH 10	22.23	22.23	22.88	22.88	25.58	30	PASS
	2462/CH 11	22.30	22.30	22.89	22.89	25.61	30	PASS
802.11g	2412/CH 1	17.89	18.20	18.22	18.53	21.38	30	PASS
	2417/CH 2	19.97	20.28	20.38	20.69	23.50	30	PASS
	2422/CH 3	21.00	21.31	21.44	21.75	24.55	30	PASS
	2427/CH 4	21.92	22.23	22.51	22.82	25.54	30	PASS
	2432/CH 5	22.91	23.22	23.36	23.67	26.46	30	PASS
	2437/CH 6	23.89	24.20	24.33	24.64	27.44	30	PASS
	2442/CH 7	22.84	23.15	23.33	23.64	26.41	30	PASS
	2447/CH 8	21.81	22.12	22.39	22.70	25.43	30	PASS
	2452/CH 9	20.86	21.17	21.39	21.70	24.45	30	PASS
	2457/CH 10	19.84	20.15	20.24	20.55	23.36	30	PASS
	2462/CH 11	18.85	19.16	19.31	19.62	22.40	30	PASS
802.11n HT20	2412/CH 1	17.61	17.94	18.14	18.47	21.22	30	PASS
	2417/CH 2	19.67	20.00	20.36	20.69	23.37	30	PASS
	2422/CH 3	20.82	21.15	21.32	21.65	24.42	30	PASS
	2427/CH 4	21.74	22.07	22.50	22.83	25.48	30	PASS
	2432/CH 5	22.74	23.07	23.45	23.78	26.45	30	PASS
	2437/CH 6	23.65	23.98	24.29	24.62	27.32	30	PASS
	2442/CH 7	22.62	22.95	23.31	23.64	26.32	30	PASS
	2447/CH 8	21.70	22.03	22.28	22.61	25.34	30	PASS
	2452/CH 9	20.62	20.95	21.20	21.53	24.26	30	PASS
	2457/CH 10	19.67	20.00	20.16	20.49	23.26	30	PASS
	2462/CH 11	17.62	17.95	18.17	18.50	21.24	30	PASS
802.11n HT40	2422/CH 3	14.76	15.40	15.03	15.67	18.55	30	PASS
	2427/CH 4	15.70	16.34	16.18	16.82	19.60	30	PASS

	2432/CH 5	17.67	18.31	18.12	18.76	21.55	30	PASS
	2437/CH 6	19.67	20.31	20.21	20.85	23.60	30	PASS
	2442/CH 7	18.62	19.26	19.15	19.79	22.54	30	PASS
	2447/CH 8	17.64	18.28	18.01	18.65	21.48	30	PASS
	2452/CH 9	16.64	17.28	16.93	17.57	20.43	30	PASS
802.11ax HE20	2412/CH 1	17.20	17.62	17.53	17.95	20.80	30	PASS
	2417/CH 2	19.26	19.68	19.68	20.10	22.91	30	PASS
	2422/CH 3	20.30	20.72	20.79	21.21	23.98	30	PASS
	2427/CH 4	21.35	21.77	21.90	22.32	25.07	30	PASS
	2432/CH 5	22.34	22.76	22.86	23.28	26.04	30	PASS
	2437/CH 6	22.30	22.72	22.90	23.32	26.04	30	PASS
	2442/CH 7	21.20	21.62	21.79	22.21	24.93	30	PASS
	2447/CH 8	21.21	21.63	21.76	22.18	24.92	30	PASS
	2452/CH 9	20.26	20.68	20.59	21.01	23.86	30	PASS
	2457/CH 10	19.13	19.55	19.68	20.10	22.85	30	PASS
	2462/CH 11	18.13	18.55	18.66	19.08	21.83	30	PASS
802.11ax HE40	2422/CH 3	14.05	14.82	14.32	15.09	17.97	30	PASS
	2427/CH 4	15.00	15.77	15.38	16.15	18.98	30	PASS
	2432/CH 5	16.99	17.76	17.40	18.17	20.98	30	PASS
	2437/CH 6	19.00	19.77	19.50	20.27	23.04	30	PASS
	2442/CH 7	17.92	18.69	18.44	19.21	21.97	30	PASS
	2447/CH 8	16.91	17.68	17.28	18.05	20.87	30	PASS
	2452/CH 9	15.95	16.72	16.27	17.04	19.89	30	PASS

Note: 1.Average Power with duty factor = Average Power Measured +Duty cycle correction factor

2. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)}+10^{(\text{Power antenna2 in dBm}/10)})$.

3. The manufacturer declared that the directional gain = 4.44dBi<6dBi. So the power limit is 30dBm.

Beamforming

Antenna 1 + Antenna 2

Test Mode	Carrier frequency (MHz) / Channel	MIMO Antenna 1		MIMO Antenna 2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11b	2412/CH 1	21.07	21.07	21.53	21.53	24.32	28.49	PASS
	2417/CH 2	21.05	21.05	21.64	21.64	24.36	28.49	PASS
	2422/CH 3	22.09	22.09	22.75	22.75	25.44	28.49	PASS
	2427/CH 4	22.00	22.00	22.78	22.78	25.42	28.49	PASS
	2432/CH 5	24.71	24.71	25.36	25.36	28.06	28.49	PASS
	2437/CH 6	24.65	24.65	25.30	25.30	28.00	28.49	PASS
	2442/CH 7	24.15	24.15	24.92	24.92	27.56	28.49	PASS
	2447/CH 8	24.04	24.04	24.83	24.83	27.46	28.49	PASS
	2452/CH 9	23.08	23.08	23.78	23.78	26.46	28.49	PASS
	2457/CH 10	22.05	22.05	22.66	22.66	25.37	28.49	PASS
	2462/CH 11	22.01	22.01	22.65	22.65	25.35	28.49	PASS
802.11g	2412/CH 1	17.68	17.99	17.93	18.24	21.13	28.49	PASS
	2417/CH 2	19.76	20.07	20.31	20.62	23.37	28.49	PASS
	2422/CH 3	20.77	21.08	21.38	21.69	24.41	28.49	PASS
	2427/CH 4	21.84	22.15	22.35	22.66	25.42	28.49	PASS
	2432/CH 5	22.78	23.09	23.27	23.58	26.35	28.49	PASS
	2437/CH 6	23.70	24.01	24.14	24.45	27.25	28.49	PASS
	2442/CH 7	22.60	22.91	23.13	23.44	26.19	28.49	PASS
	2447/CH 8	21.71	22.02	22.19	22.50	25.28	28.49	PASS
	2452/CH 9	20.66	20.97	21.25	21.56	24.28	28.49	PASS
	2457/CH 10	19.64	19.95	20.18	20.49	23.24	28.49	PASS
	2462/CH 11	18.72	19.03	19.08	19.39	22.22	28.49	PASS
802.11n HT20	2412/CH 1	17.57	17.90	17.84	18.17	21.05	28.49	PASS
	2417/CH 2	19.68	20.01	20.12	20.45	23.24	28.49	PASS
	2422/CH 3	20.68	21.01	21.13	21.46	24.25	28.49	PASS
	2427/CH 4	21.61	21.94	22.17	22.50	25.24	28.49	PASS
	2432/CH 5	22.64	22.97	23.23	23.56	26.29	28.49	PASS
	2437/CH 6	23.62	23.95	24.11	24.44	27.21	28.49	PASS
	2442/CH 7	22.55	22.88	23.13	23.46	26.19	28.49	PASS
	2447/CH 8	21.56	21.89	22.07	22.40	25.16	28.49	PASS
	2452/CH 9	20.55	20.88	21.02	21.35	24.13	28.49	PASS
	2457/CH 10	19.48	19.81	20.05	20.38	23.11	28.49	PASS
	2462/CH 11	17.43	17.76	17.93	18.26	21.03	28.49	PASS
802.11n	2422/CH 3	14.55	15.19	14.97	15.61	18.42	28.49	PASS

HT40	2427/CH 4	15.51	16.15	16.07	16.71	19.45	28.49	PASS
	2432/CH 5	17.50	18.14	18.04	18.68	21.43	28.49	PASS
	2437/CH 6	19.53	20.17	20.09	20.73	23.47	28.49	PASS
	2442/CH 7	18.40	19.04	19.08	19.72	22.40	28.49	PASS
	2447/CH 8	17.41	18.05	17.96	18.60	21.34	28.49	PASS
	2452/CH 9	16.39	17.03	16.92	17.56	20.31	28.49	PASS
802.11ax HE20	2412/CH 1	17.02	17.44	17.38	17.80	20.63	28.49	PASS
	2417/CH 2	19.03	19.45	19.54	19.96	22.72	28.49	PASS
	2422/CH 3	20.08	20.50	20.63	21.05	23.79	28.49	PASS
	2427/CH 4	21.07	21.49	21.71	22.13	24.83	28.49	PASS
	2432/CH 5	22.10	22.52	22.68	23.10	25.83	28.49	PASS
	2437/CH 6	22.08	22.50	22.69	23.11	25.82	28.49	PASS
	2442/CH 7	21.01	21.43	21.68	22.10	24.79	28.49	PASS
	2447/CH 8	21.02	21.44	21.59	22.01	24.75	28.49	PASS
	2452/CH 9	19.98	20.40	20.46	20.88	23.66	28.49	PASS
	2457/CH 10	18.90	19.32	19.44	19.86	22.61	28.49	PASS
	2462/CH 11	17.92	18.34	18.47	18.89	21.63	28.49	PASS
802.11ax HE40	2422/CH 3	13.90	14.67	14.26	15.03	17.86	28.49	PASS
	2427/CH 4	14.92	15.69	15.39	16.16	18.94	28.49	PASS
	2432/CH 5	16.80	17.57	17.42	18.19	20.90	28.49	PASS
	2437/CH 6	18.84	19.61	19.41	20.18	22.91	28.49	PASS
	2442/CH 7	17.79	18.56	18.43	19.20	21.90	28.49	PASS
	2447/CH 8	16.74	17.51	17.32	18.09	20.82	28.49	PASS
	2452/CH 9	15.72	16.49	16.24	17.01	19.77	28.49	PASS

Note: 1.Average Power with duty factor = Average Power Measured +Duty cycle correction factor

2. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$.

3. The manufacturer declared that the directional gain = 7.51dBi>6dBi.

So the power limit is 30 - (directional gain-6 dBi) = 28.49dBm.

Beamforming

Antenna 2 + Antenna 3

Test Mode	Carrier frequency (MHz) / Channel	MIMO Antenna 2		MIMO Antenna 3		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11b	2412/CH 1	21.04	21.04	21.47	21.47	24.27	30	PASS
	2417/CH 2	21.05	21.05	21.64	21.64	24.37	30	PASS
	2422/CH 3	22.10	22.10	22.72	22.72	25.43	30	PASS
	2427/CH 4	22.01	22.01	22.74	22.74	25.40	30	PASS
	2432/CH 5	24.71	24.71	25.35	25.35	28.05	30	PASS
	2437/CH 6	24.53	24.53	25.46	25.46	28.03	30	PASS
	2442/CH 7	24.09	24.09	24.79	24.79	27.46	30	PASS
	2447/CH 8	24.12	24.12	24.72	24.72	27.44	30	PASS
	2452/CH 9	22.96	22.96	23.63	23.63	26.32	30	PASS
	2457/CH 10	22.01	22.01	22.52	22.52	25.29	30	PASS
	2462/CH 11	22.04	22.04	22.61	22.61	25.34	30	PASS
802.11g	2412/CH 1	17.59	17.90	17.83	18.14	21.03	30	PASS
	2417/CH 2	19.61	19.92	19.95	20.26	23.11	30	PASS
	2422/CH 3	20.77	21.08	21.05	21.36	24.23	30	PASS
	2427/CH 4	21.69	22.00	22.01	22.32	25.17	30	PASS
	2432/CH 5	22.74	23.05	23.11	23.42	26.25	30	PASS
	2437/CH 6	23.58	23.89	24.02	24.33	27.13	30	PASS
	2442/CH 7	22.57	22.88	23.03	23.34	26.13	30	PASS
	2447/CH 8	21.59	21.90	21.96	22.27	25.10	30	PASS
	2452/CH 9	20.65	20.96	20.94	21.25	24.12	30	PASS
	2457/CH 10	19.59	19.90	19.90	20.21	23.07	30	PASS
	2462/CH 11	18.56	18.87	18.90	19.21	22.05	30	PASS
802.11n HT20	2412/CH 1	17.38	17.71	17.64	17.97	20.85	30	PASS
	2417/CH 2	19.48	19.81	19.78	20.11	22.97	30	PASS
	2422/CH 3	20.53	20.86	20.90	21.23	24.06	30	PASS
	2427/CH 4	21.50	21.83	21.95	22.28	25.07	30	PASS
	2432/CH 5	22.51	22.84	22.92	23.25	26.06	30	PASS
	2437/CH 6	23.49	23.82	23.76	24.09	26.97	30	PASS
	2442/CH 7	22.45	22.78	22.84	23.17	25.98	30	PASS
	2447/CH 8	21.36	21.69	21.79	22.12	24.92	30	PASS
	2452/CH 9	20.34	20.67	20.69	21.02	23.86	30	PASS
	2457/CH 10	19.30	19.63	19.62	19.95	22.80	30	PASS
	2462/CH 11	17.35	17.68	17.68	18.01	20.86	30	PASS
802.11n	2422/CH 3	14.52	15.16	14.84	15.48	18.33	30	PASS

HT40	2427/CH 4	15.45	16.09	15.82	16.46	19.29	30	PASS
	2432/CH 5	17.34	17.98	17.83	18.47	21.24	30	PASS
	2437/CH 6	19.40	20.04	19.90	20.54	23.31	30	PASS
	2442/CH 7	18.27	18.91	18.81	19.45	22.20	30	PASS
	2447/CH 8	17.20	17.84	17.65	18.29	21.08	30	PASS
	2452/CH 9	16.30	16.94	16.64	17.28	20.12	30	PASS
802.11ax HE20	2412/CH 1	16.84	17.26	17.14	17.56	20.42	30	PASS
	2417/CH 2	19.02	19.44	19.32	19.74	22.60	30	PASS
	2422/CH 3	20.03	20.45	20.46	20.88	23.68	30	PASS
	2427/CH 4	20.96	21.38	21.53	21.95	24.68	30	PASS
	2432/CH 5	22.03	22.45	22.48	22.90	25.69	30	PASS
	2437/CH 6	21.98	22.40	22.48	22.90	25.66	30	PASS
	2442/CH 7	20.90	21.32	21.48	21.90	24.63	30	PASS
	2447/CH 8	20.98	21.40	21.46	21.88	24.65	30	PASS
	2452/CH 9	19.96	20.38	20.33	20.75	23.58	30	PASS
	2457/CH 10	18.98	19.40	19.27	19.69	22.56	30	PASS
	2462/CH 11	17.79	18.21	18.20	18.62	21.43	30	PASS
802.11ax HE40	2422/CH 3	13.76	14.53	14.04	14.81	17.68	30	PASS
	2427/CH 4	14.70	15.47	15.10	15.87	18.69	30	PASS
	2432/CH 5	16.66	17.43	17.12	17.89	20.68	30	PASS
	2437/CH 6	18.70	19.47	19.25	20.02	22.76	30	PASS
	2442/CH 7	17.58	18.35	18.14	18.91	21.65	30	PASS
	2447/CH 8	16.56	17.33	17.03	17.80	20.58	30	PASS
	2452/CH 9	15.65	16.42	15.96	16.73	19.59	30	PASS

Note: 1.Average Power with duty factor = Average Power Measured +Duty cycle correction factor

2. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$.

3. The manufacturer declared that the directional gain = 5.13dBi<6dBi. So the power limit is 30dBm.

5.2. 99% Bandwidth and 6dB Bandwidth

Ambient Condition

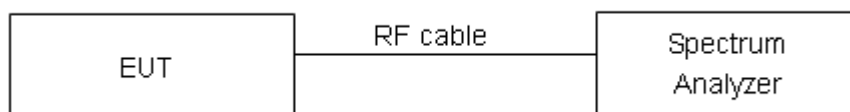
Temperature	Relative humidity
20°C ~ 25°C	45% ~ 50%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable. RBW is set to 100 kHz; VBW is set to 300 kHz on spectrum analyzer. Dector=Peak, Trace mode=max hold.

The EUT was connected to the spectrum analyzer through a known loss cable. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that “Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz
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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.

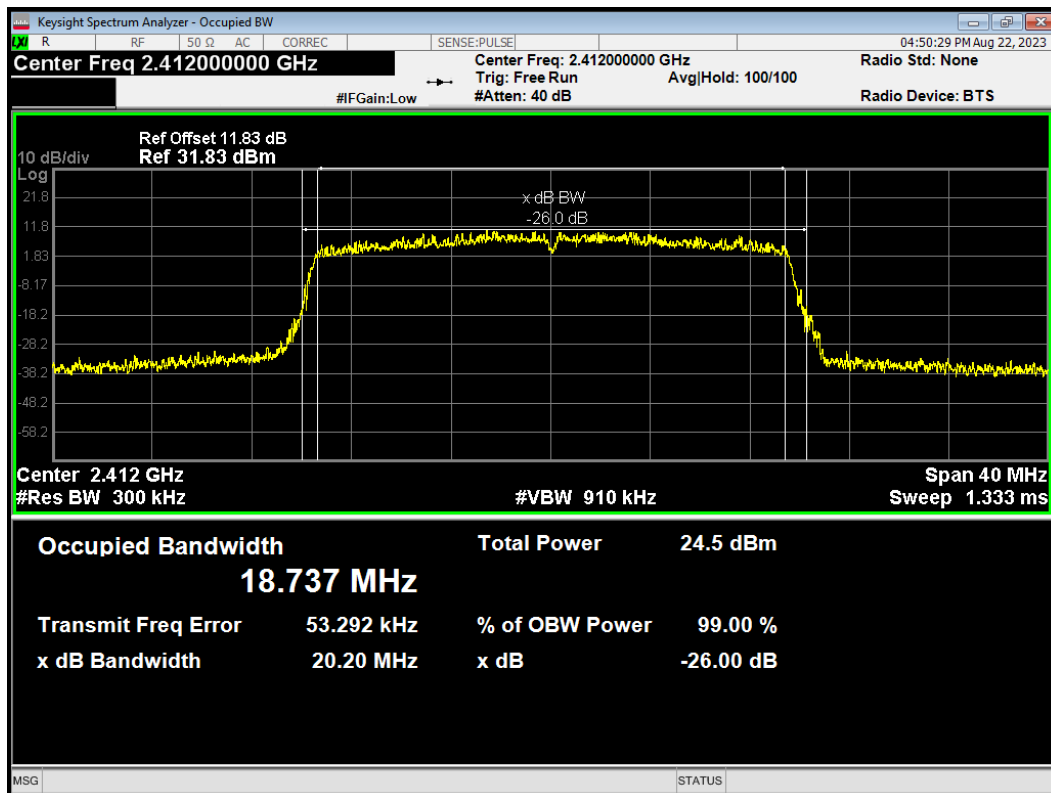
Test Results:

Test Mode	Carrier frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit (kHz)	Conclusion
802.11b	2412	13.969	10.086	500	PASS
	2417	13.965	10.068	500	PASS
	2422	13.968	9.986	500	PASS
	2427	13.953	10.027	500	PASS
	2432	14.039	10.111	500	PASS
	2437	14.030	9.972	500	PASS
	2442	13.961	10.081	500	PASS
	2447	13.964	10.104	500	PASS
	2452	13.951	10.081	500	PASS
	2457	13.949	10.104	500	PASS
	2462	13.951	10.079	500	PASS
802.11g	2412	16.241	13.360	500	PASS
	2417	16.232	14.674	500	PASS
	2422	16.241	14.995	500	PASS
	2427	16.257	15.068	500	PASS
	2432	16.285	13.757	500	PASS
	2437	16.355	15.012	500	PASS
	2442	16.278	14.996	500	PASS
	2447	16.257	14.170	500	PASS
	2452	16.249	15.057	500	PASS
	2457	16.250	14.042	500	PASS
	2462	16.234	14.791	500	PASS
802.11n HT20	2412	17.357	15.021	500	PASS
	2417	17.378	13.898	500	PASS
	2422	17.376	15.006	500	PASS
	2427	17.397	13.832	500	PASS
	2432	17.422	15.333	500	PASS
	2437	17.499	15.060	500	PASS
	2442	17.436	15.101	500	PASS
	2447	17.409	15.184	500	PASS
	2452	17.375	15.108	500	PASS
	2457	17.369	15.543	500	PASS
	2462	17.387	13.848	500	PASS
802.11n HT40	2422	35.728	35.082	500	PASS
	2427	35.704	35.091	500	PASS
	2432	35.710	35.016	500	PASS
	2437	35.746	33.803	500	PASS
	2442	35.732	33.848	500	PASS

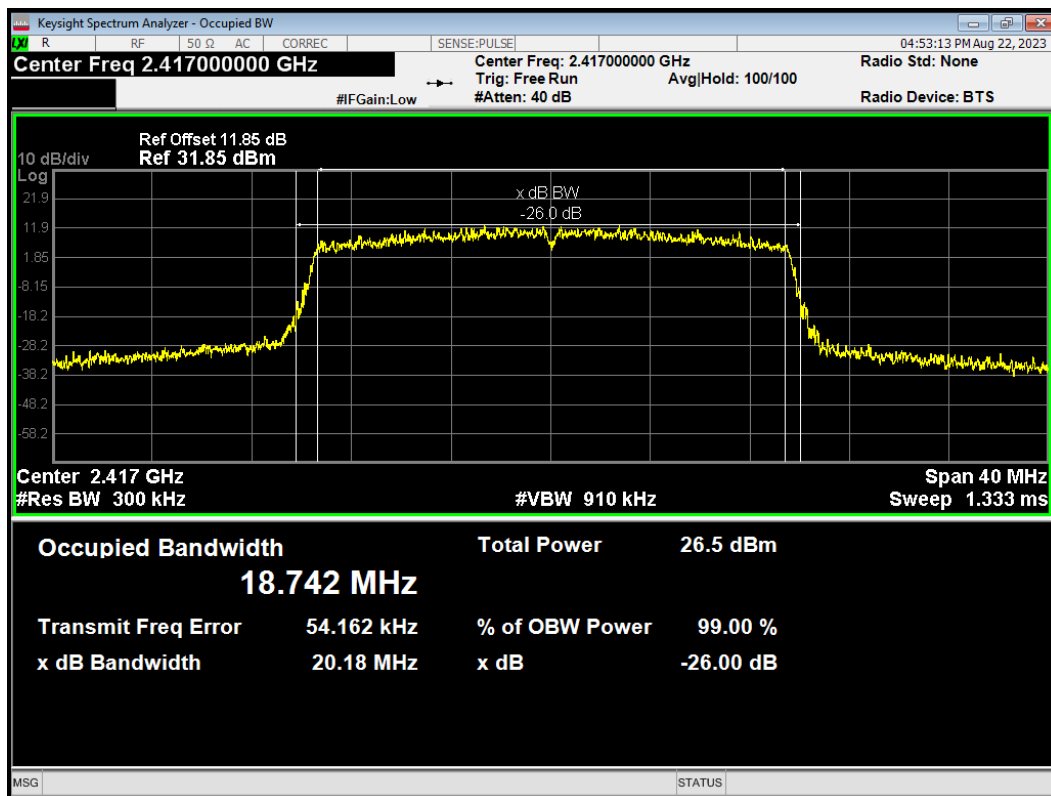
	2447	35.738	35.094	500	PASS
	2452	35.719	35.031	500	PASS
802.11ax HE20	2412	18.737	15.485	500	PASS
	2417	18.742	16.054	500	PASS
	2422	18.752	15.434	500	PASS
	2427	18.727	16.224	500	PASS
	2432	18.730	15.843	500	PASS
	2437	18.765	15.394	500	PASS
	2442	18.726	15.077	500	PASS
	2447	18.750	14.763	500	PASS
	2452	18.709	16.050	500	PASS
	2457	18.705	15.445	500	PASS
	2462	18.756	15.423	500	PASS
802.11ax HE40	2422	37.328	35.064	500	PASS
	2427	37.265	35.040	500	PASS
	2432	37.326	35.010	500	PASS
	2437	37.311	35.013	500	PASS
	2442	37.316	32.589	500	PASS
	2447	37.369	35.075	500	PASS
	2452	37.340	32.546	500	PASS

99% bandwidth

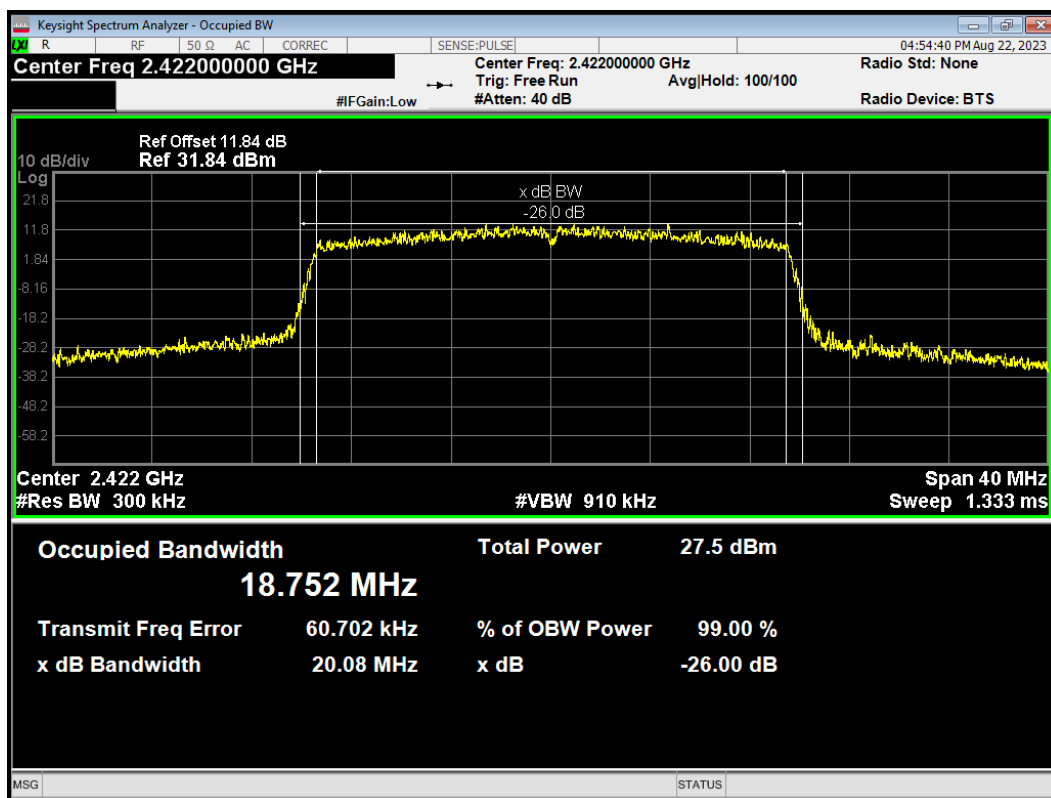
OBW 802.11ax(HE20) 2412MHz



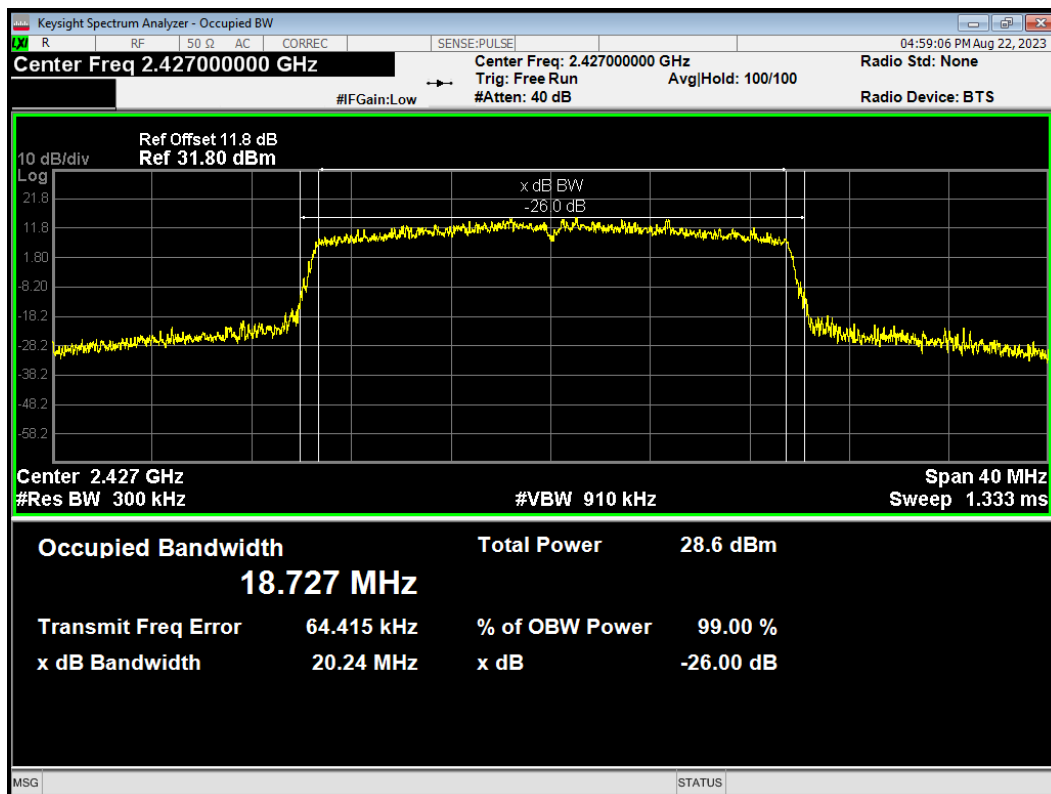
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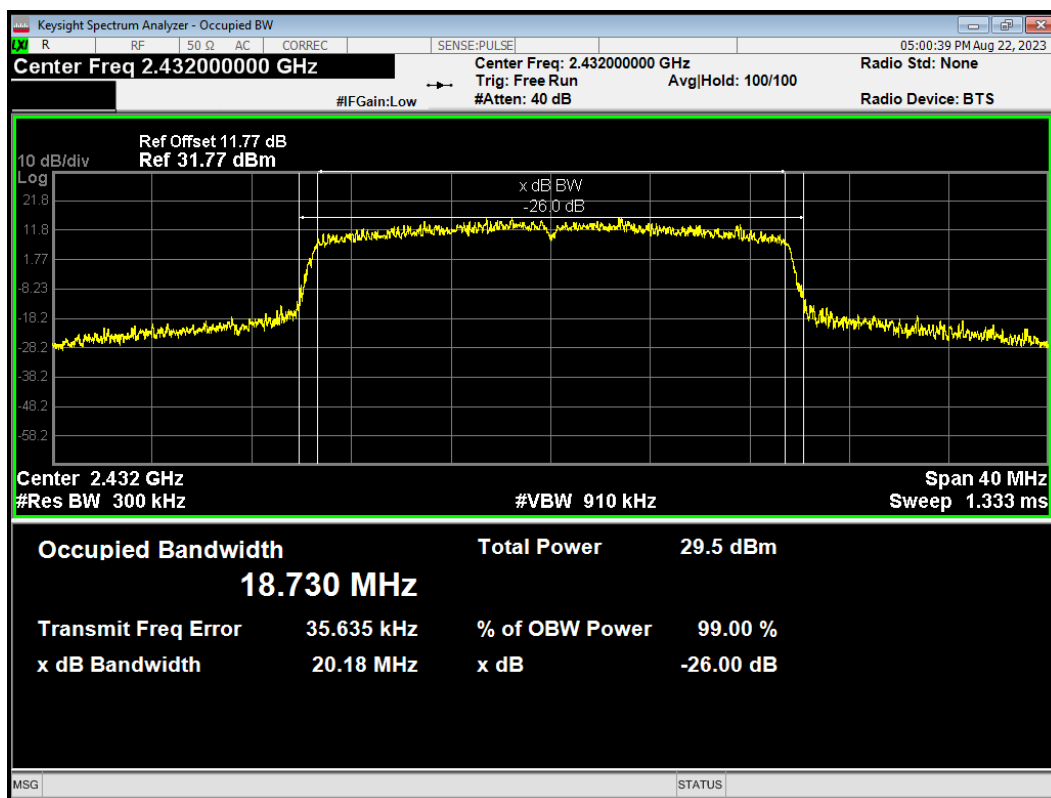
OBW 802.11ax(HE20) 2422MHz



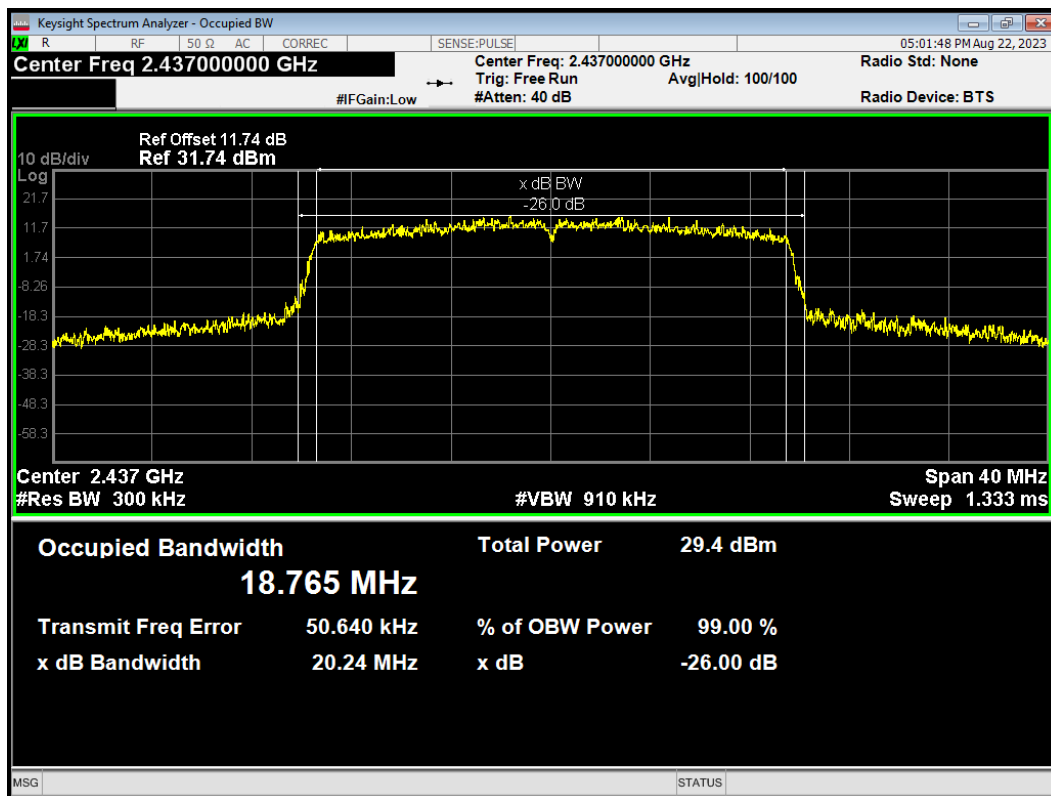
OBW 802.11ax(HE20) 2427MHz



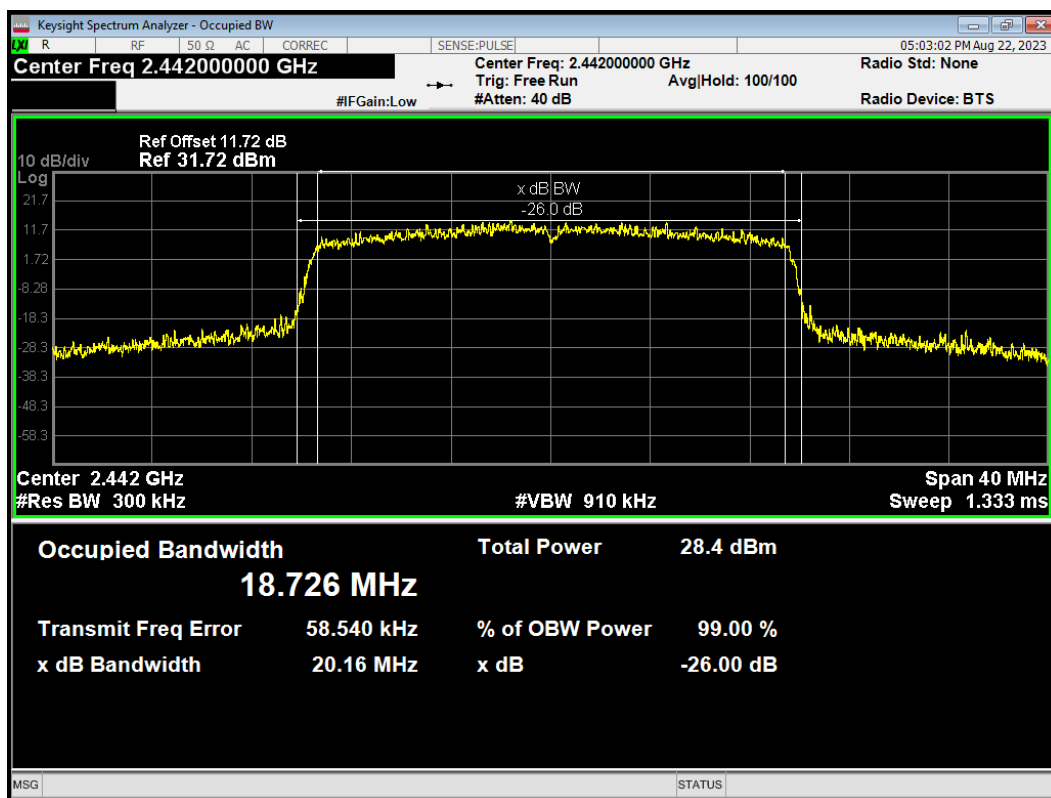
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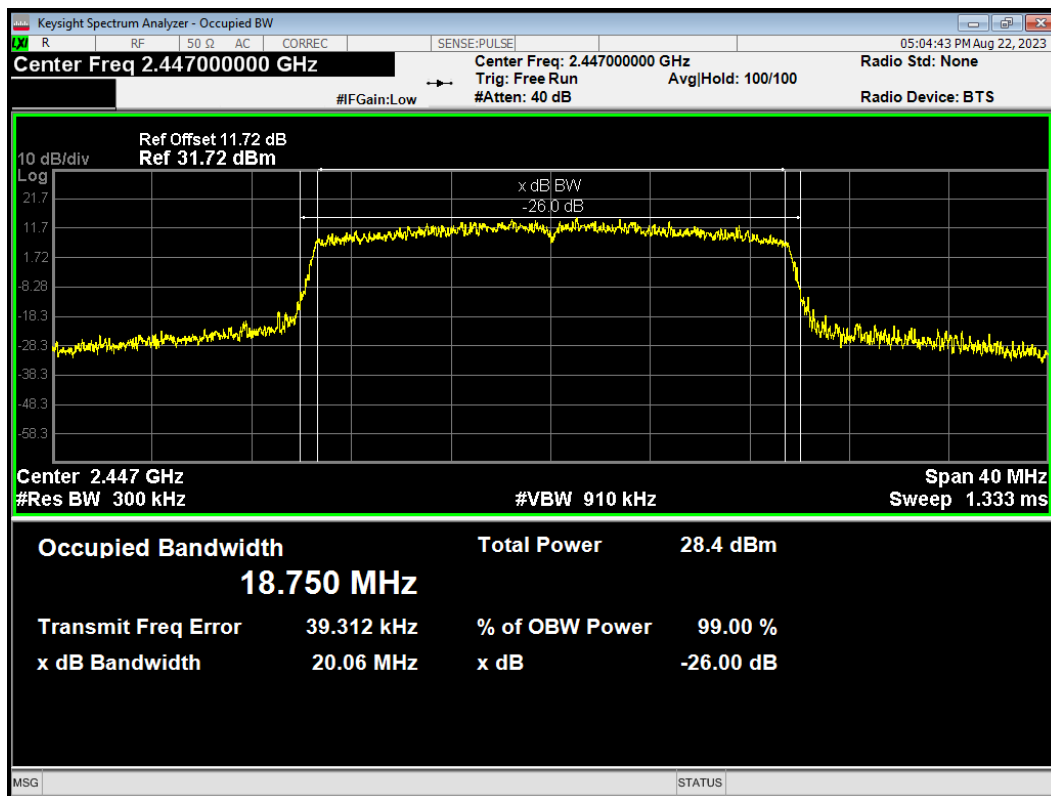
OBW 802.11ax(HE20) 2437MHz



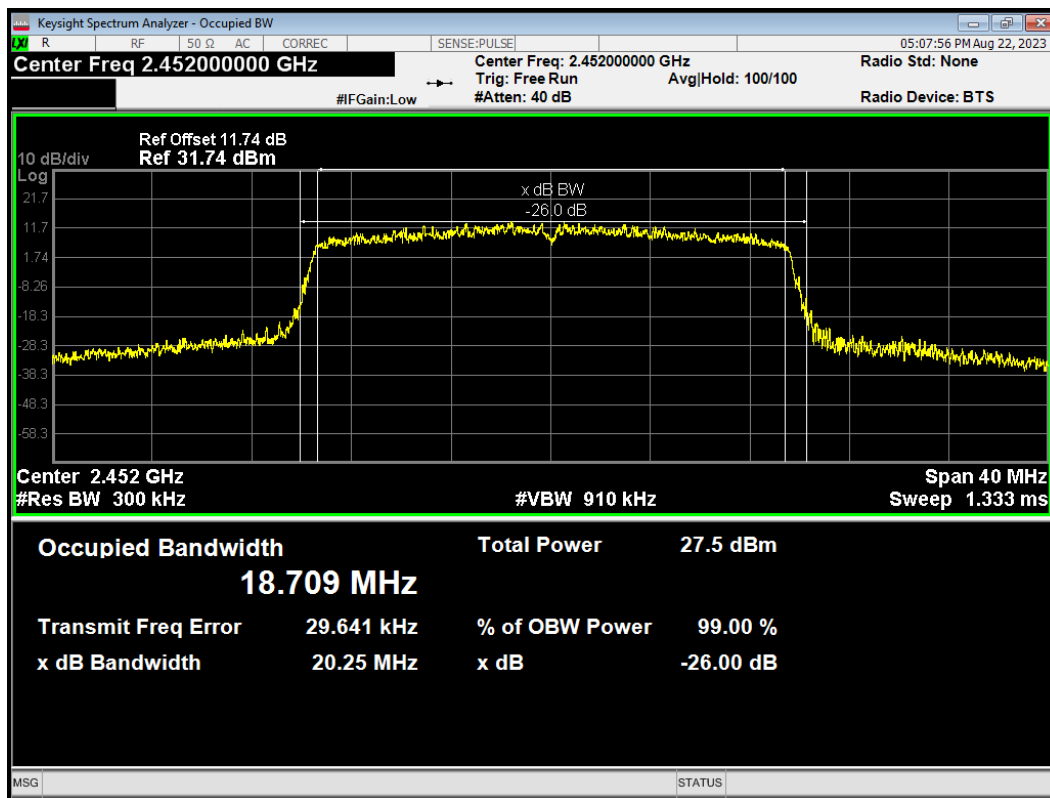
OBW 802.11ax(HE20) 2442MHz



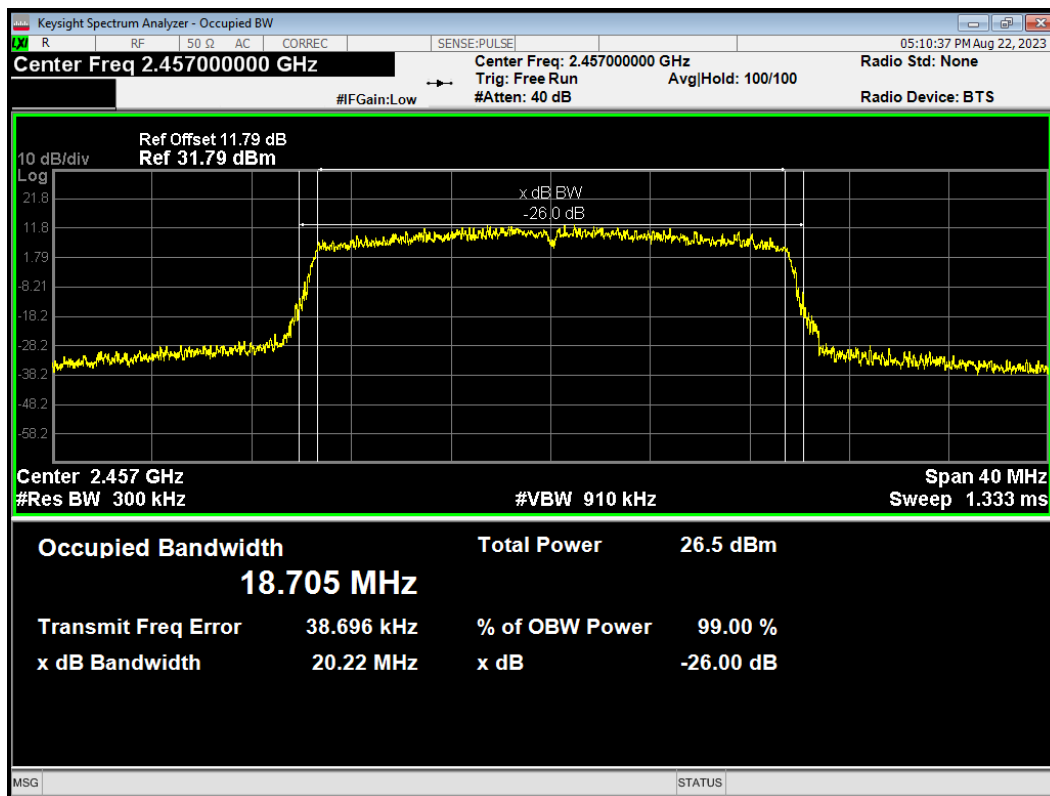
OBW 802.11ax(HE20) 2447MHz



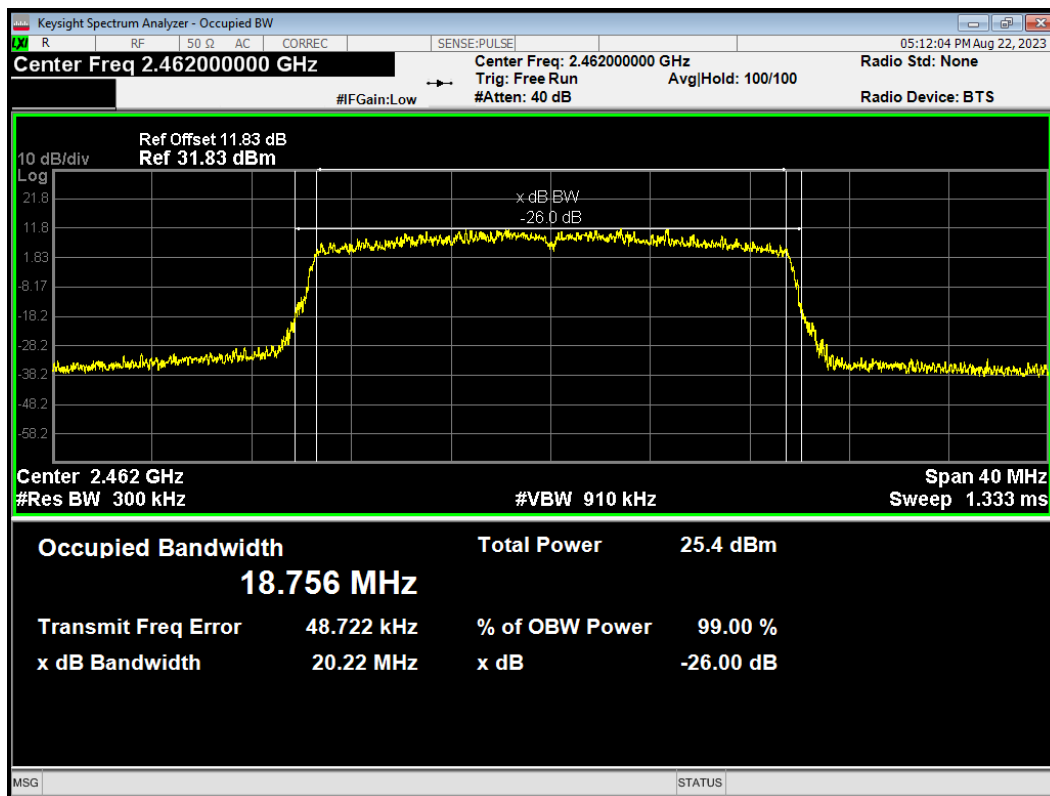
OBW 802.11ax(HE20) 2452MHz



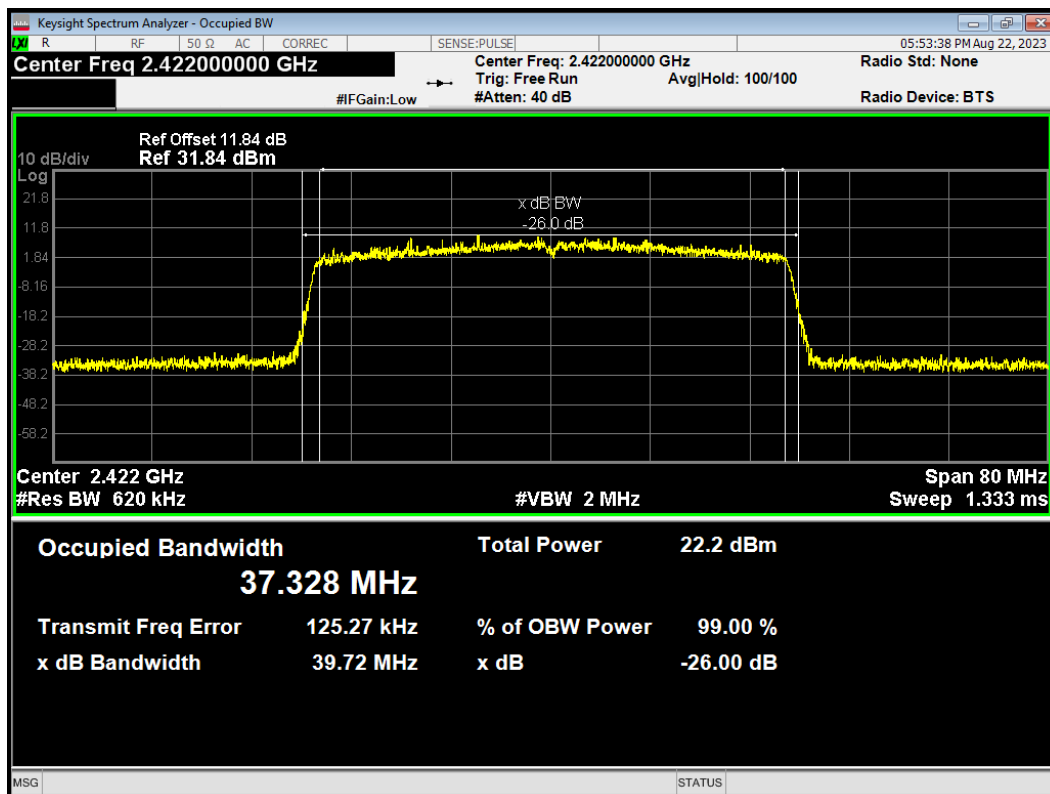
OBW 802.11ax(HE20) 2457MHz



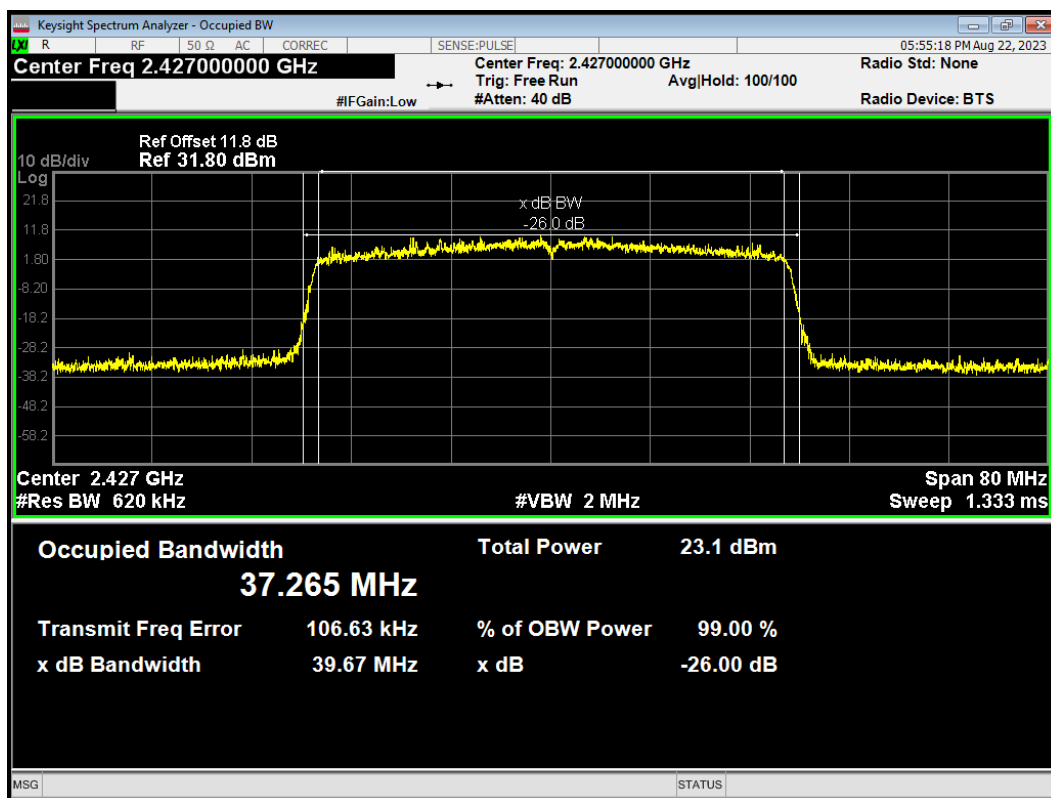
OBW 802.11ax(HE20) 2462MHz



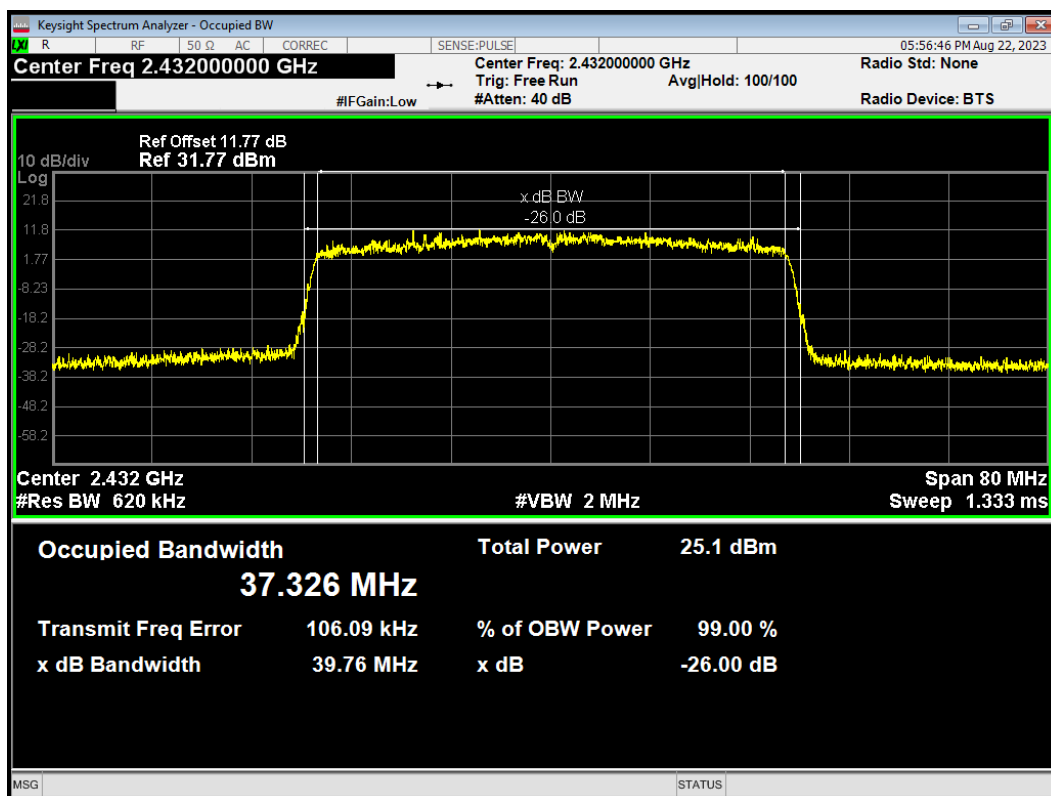
OBW 802.11ax(HE40) 2422MHz



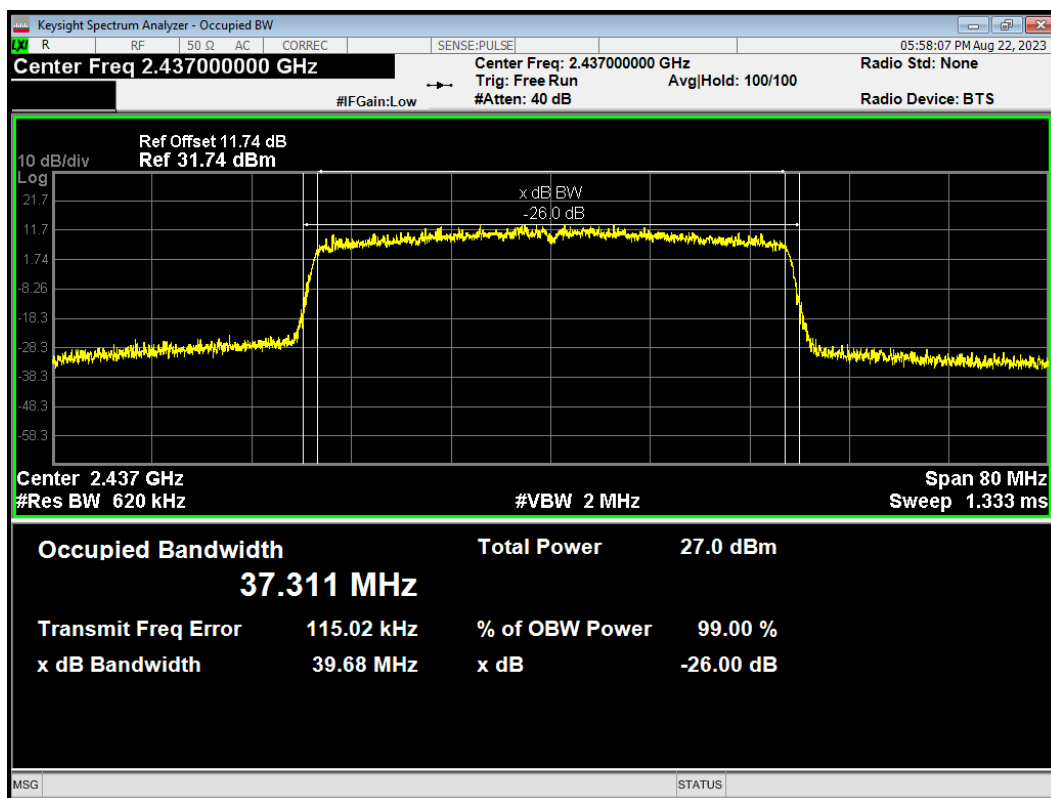
OBW 802.11ax(HE40) 2427MHz



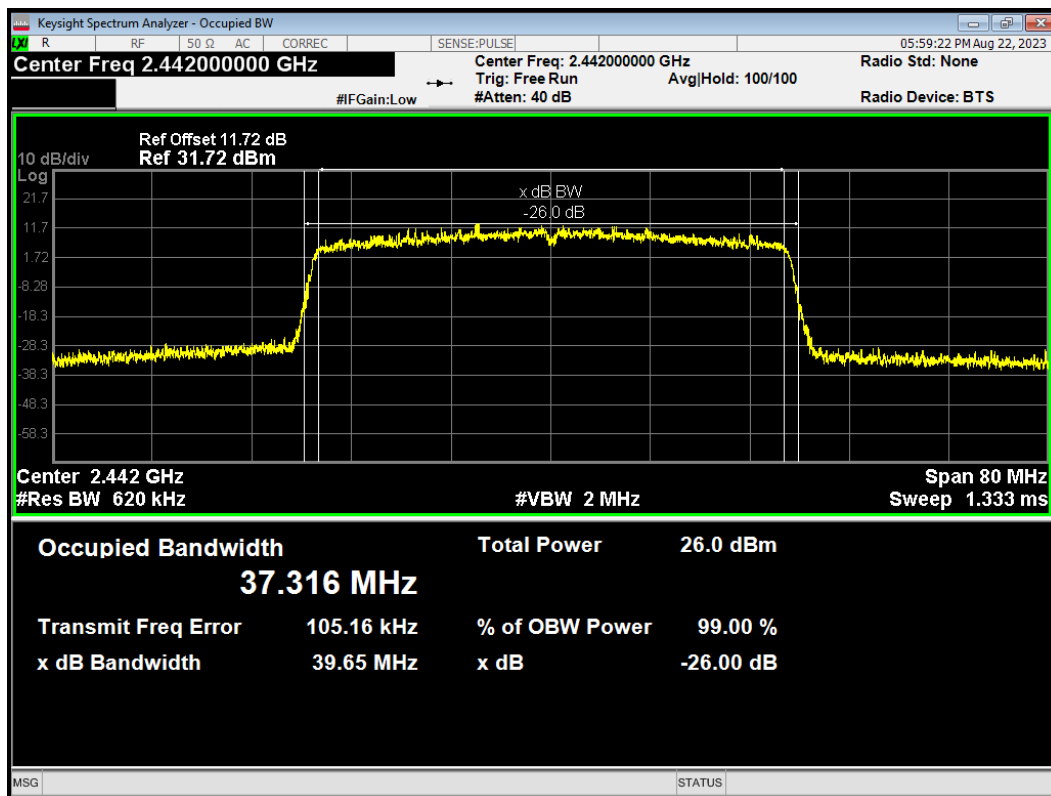
OBW 802.11ax(HE40) 2432MHz



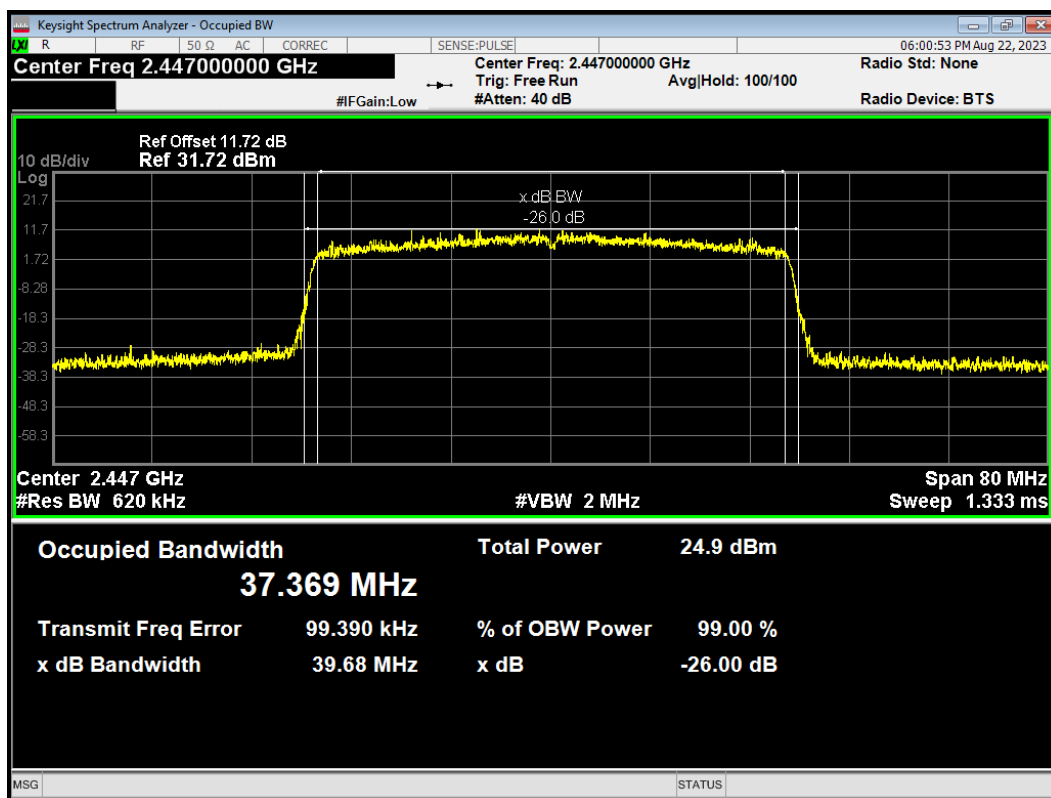
OBW 802.11ax(HE40) 2437MHz



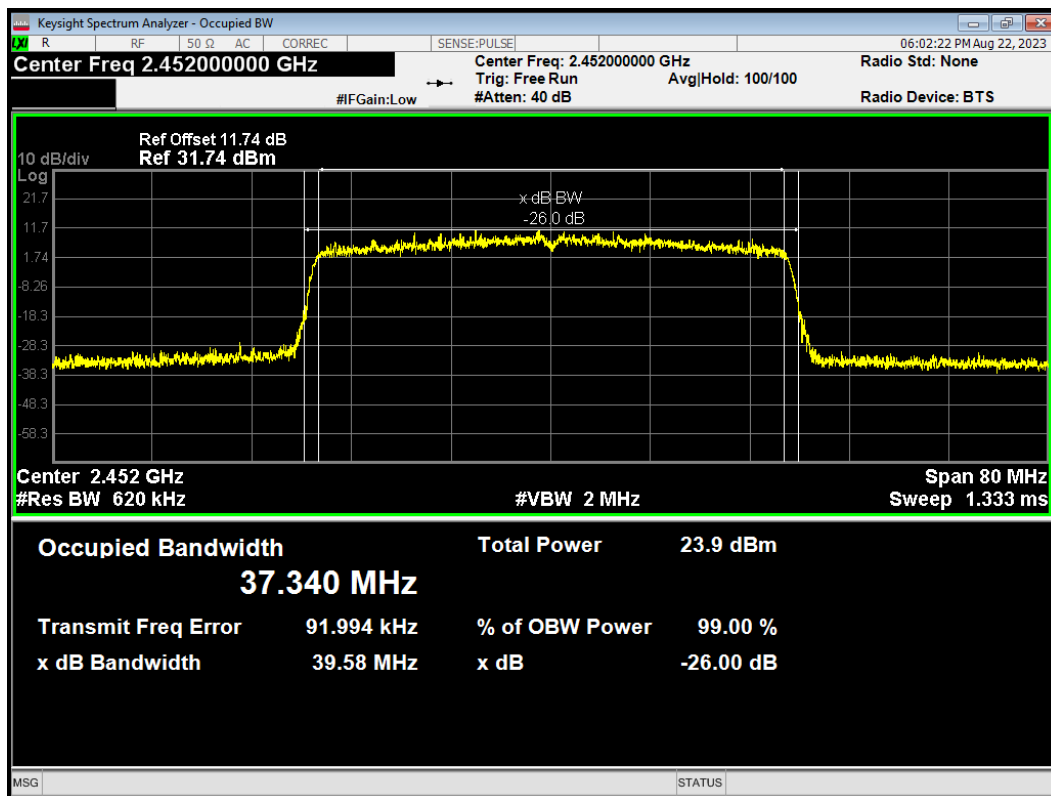
OBW 802.11ax(HE40) 2442MHz



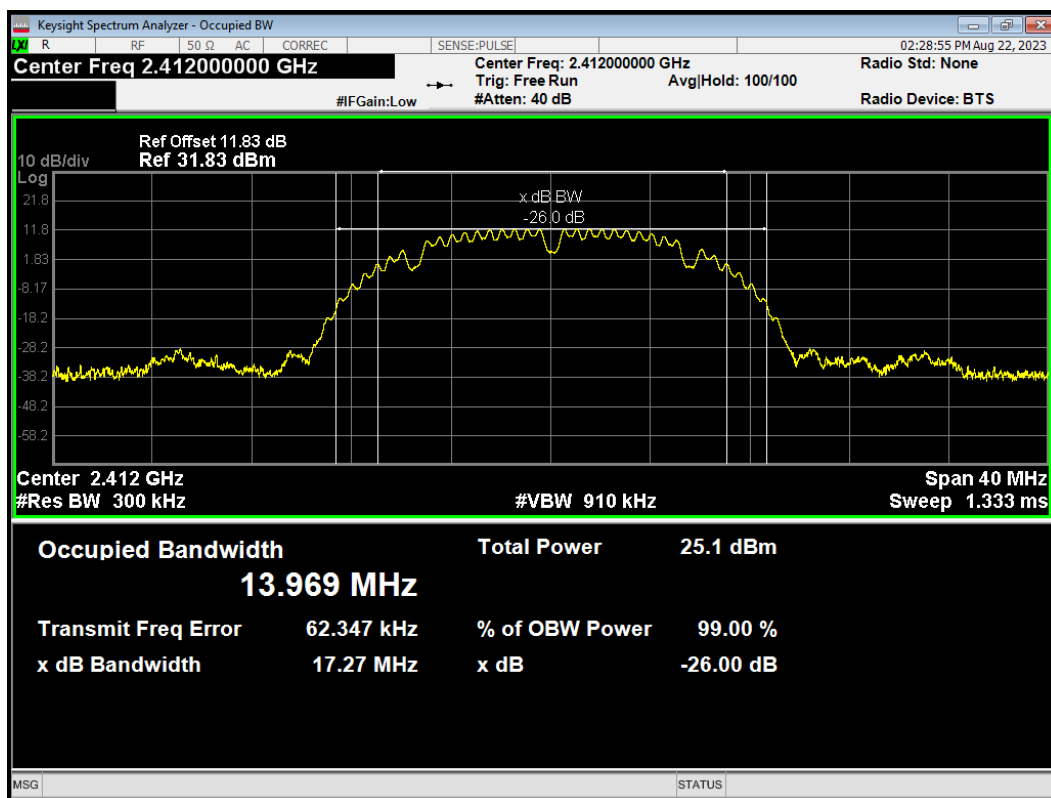
OBW 802.11ax(HE40) 2447MHz



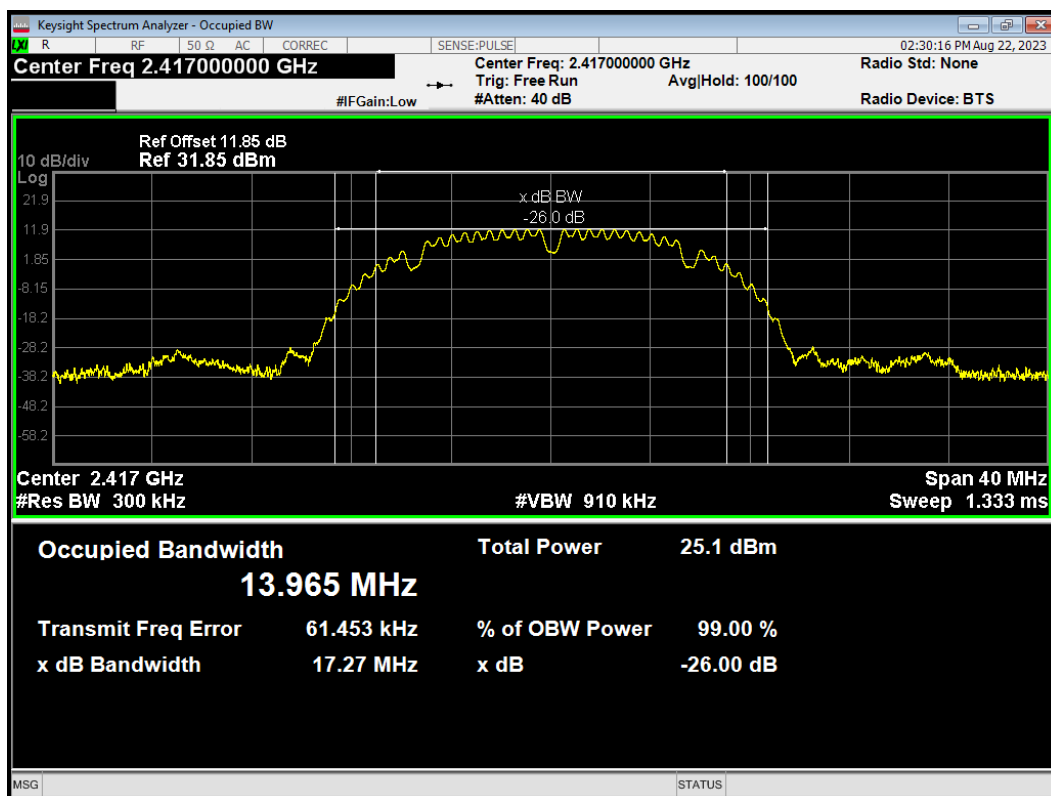
OBW 802.11ax(HE40) 2452MHz



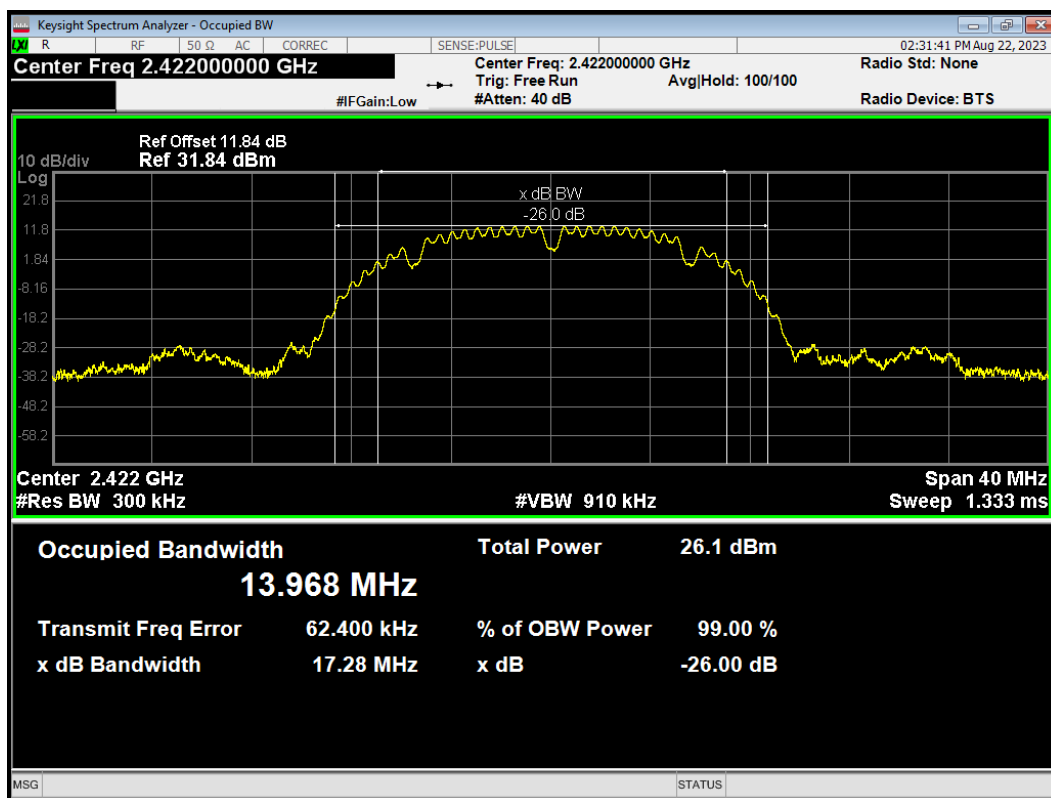
OBW 802.11b 2412MHz



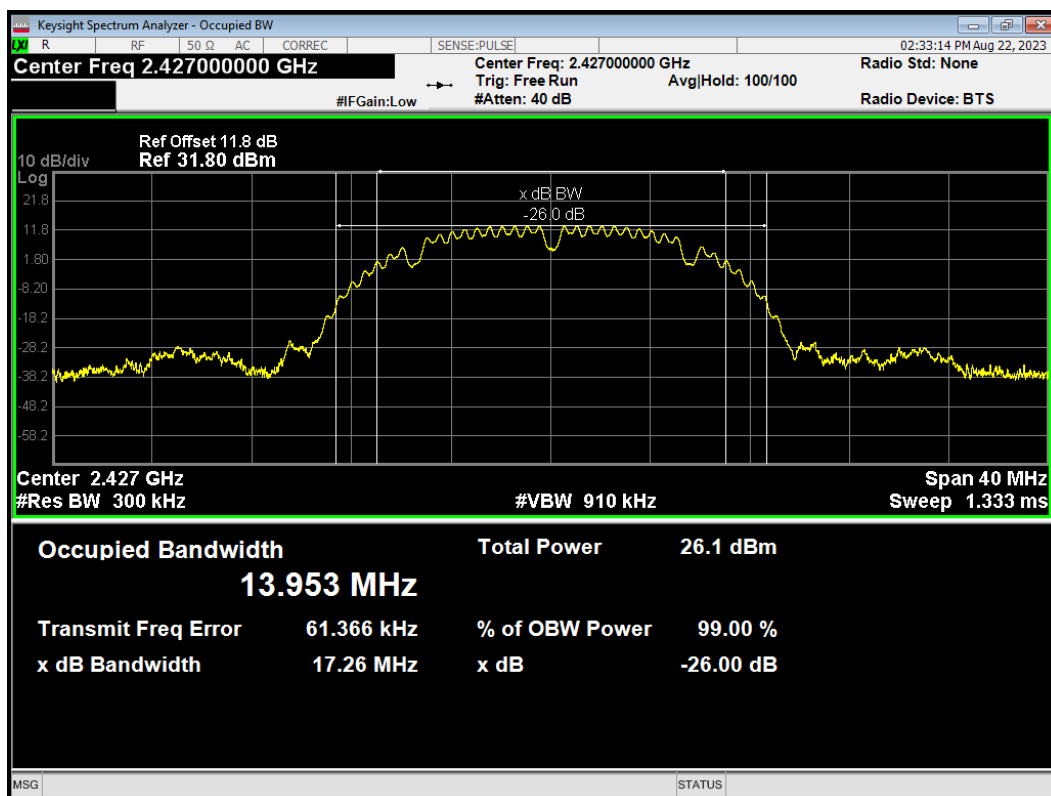
OBW 802.11b 2417MHz



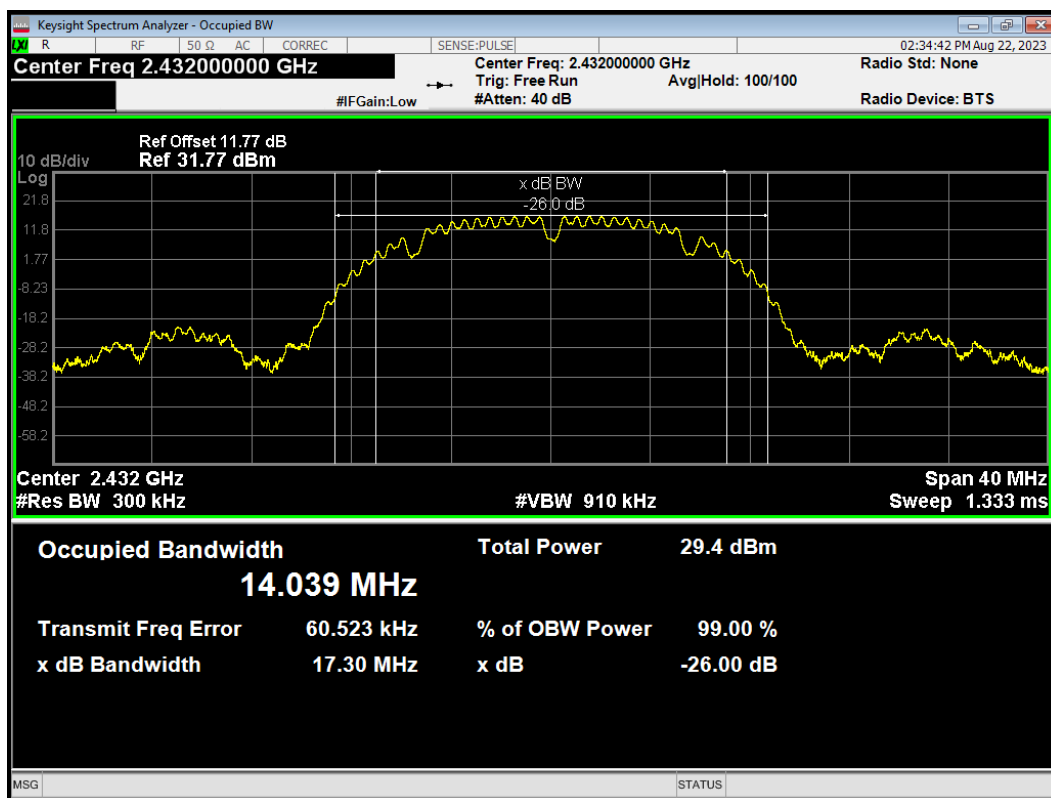
OBW 802.11b 2422MHz



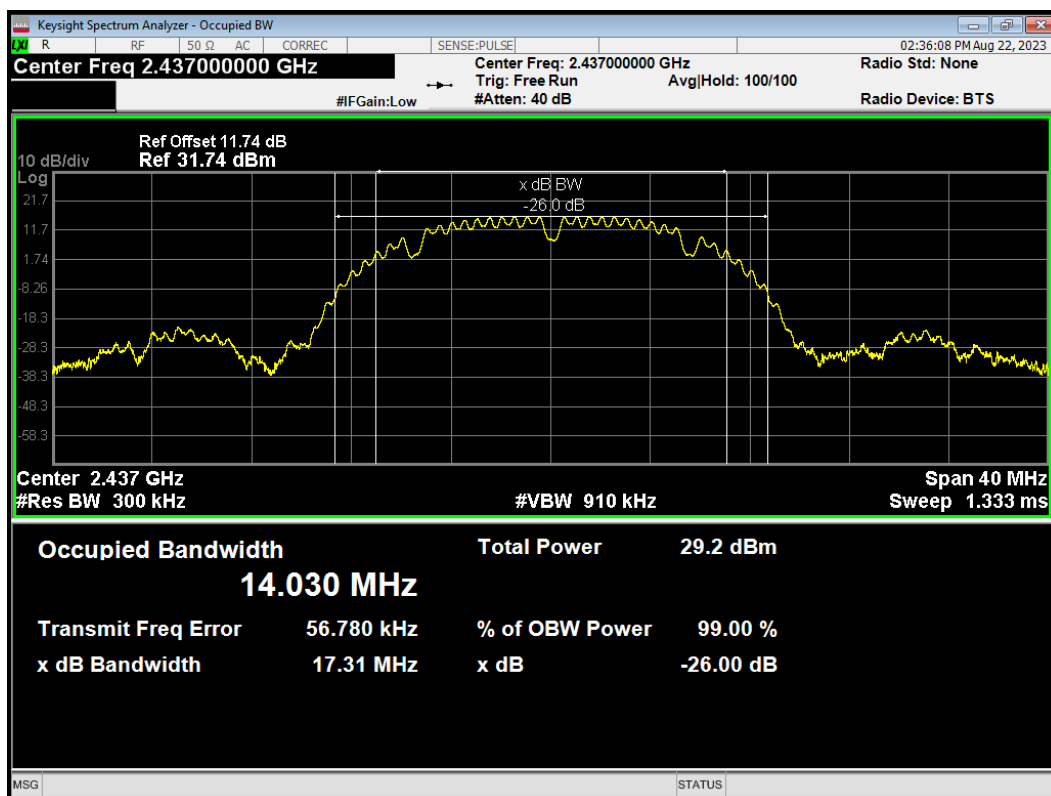
OBW 802.11b 2427MHz



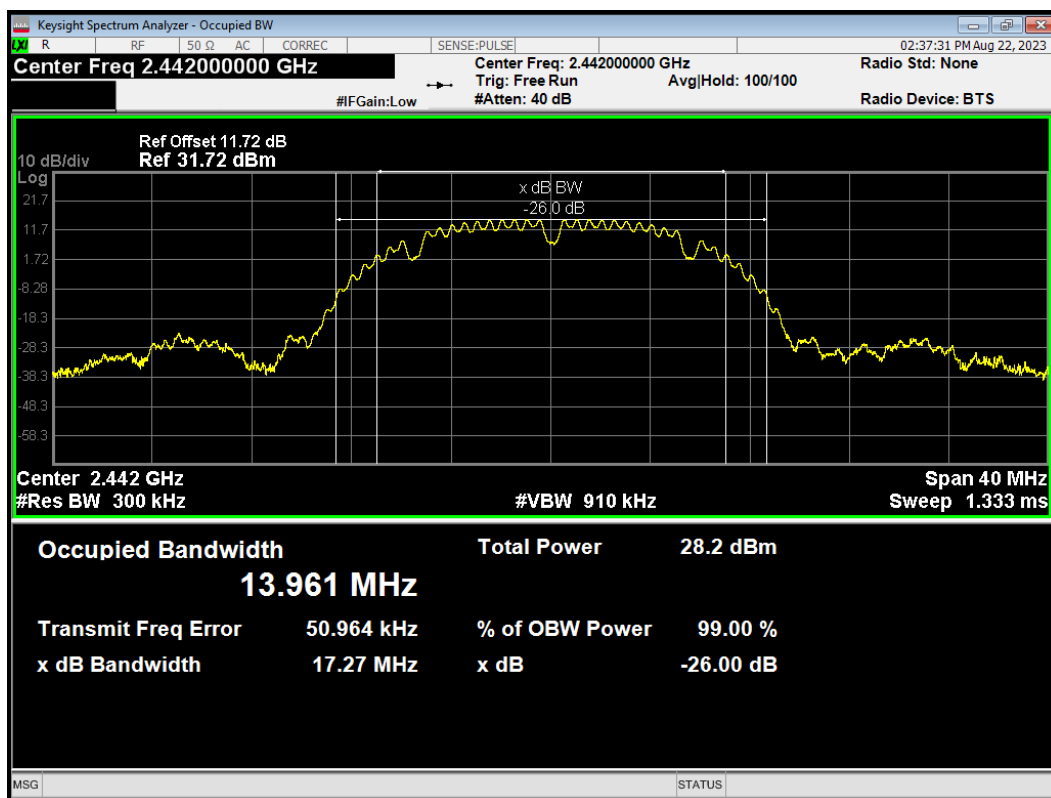
OBW 802.11b 2432MHz



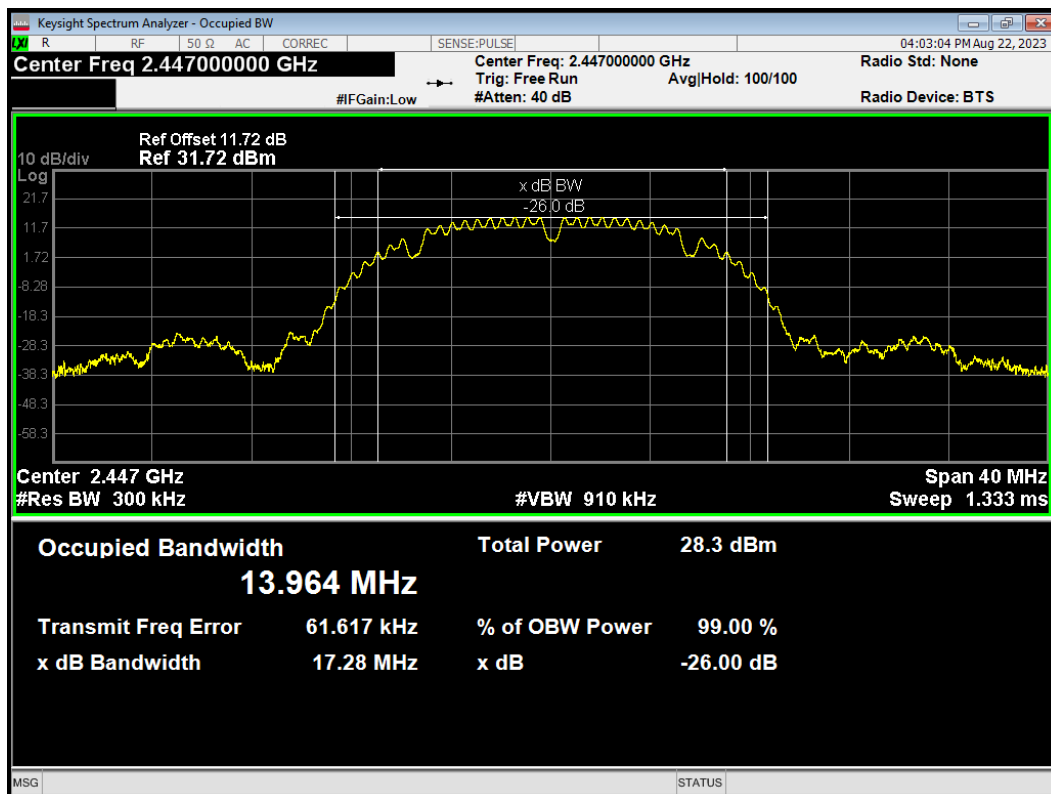
OBW 802.11b 2437MHz



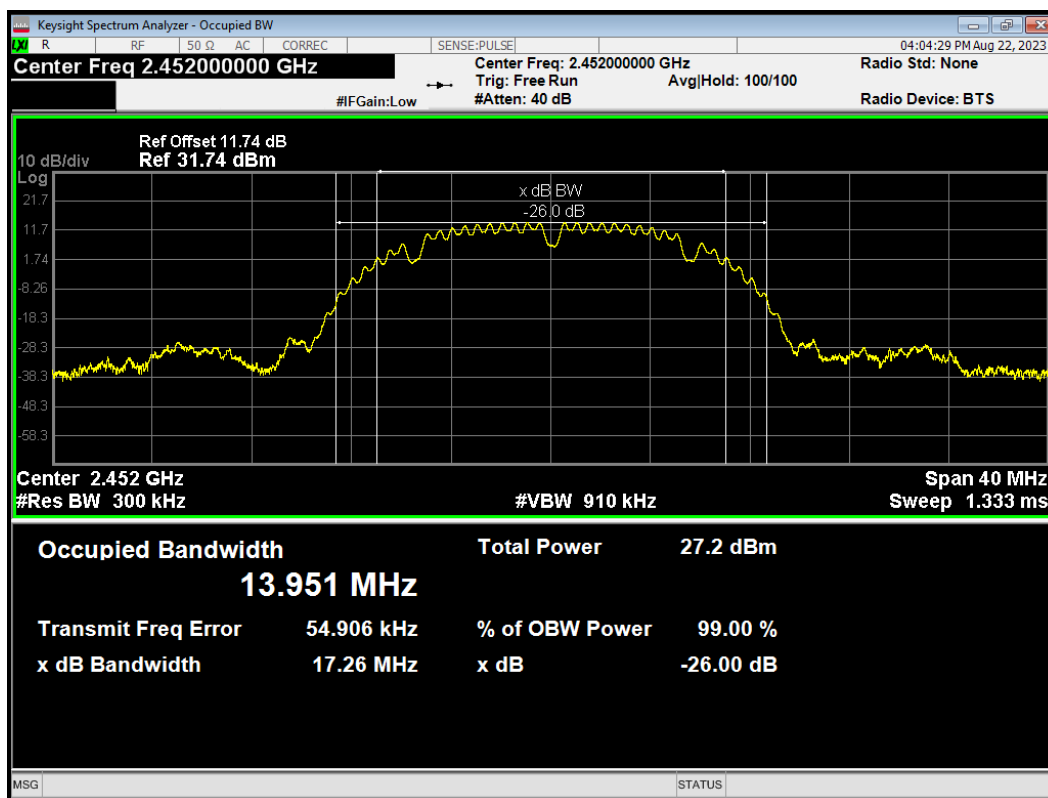
OBW 802.11b 2442MHz



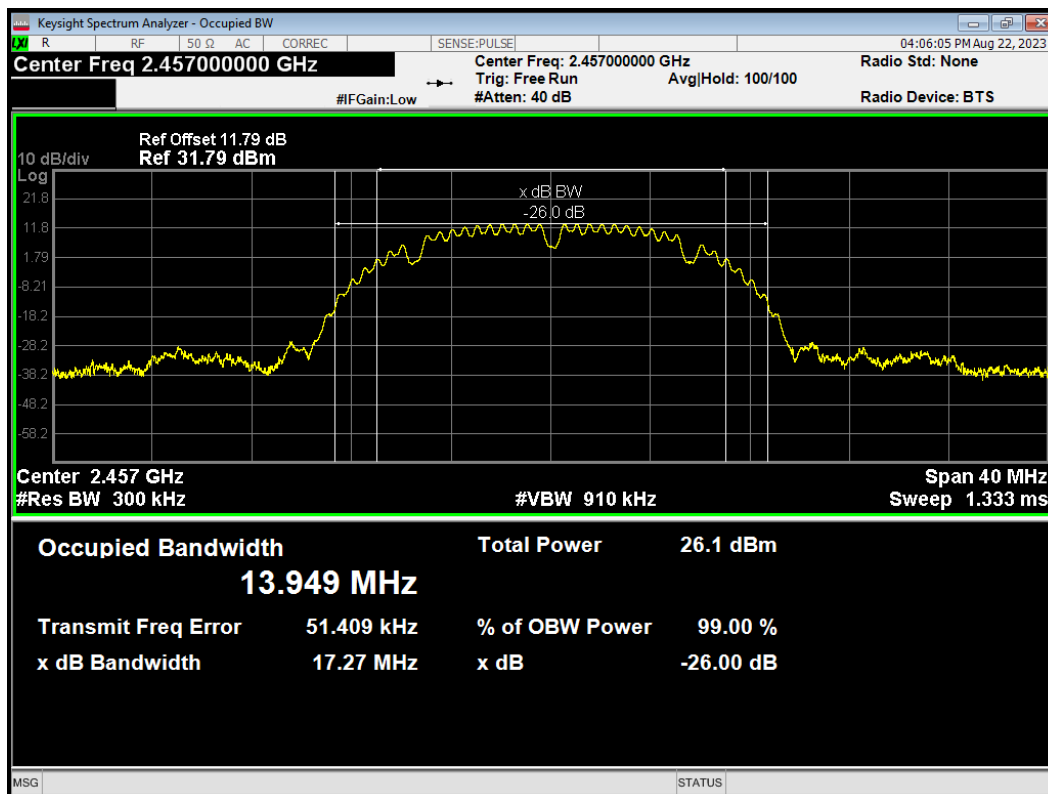
OBW 802.11b 2447MHz



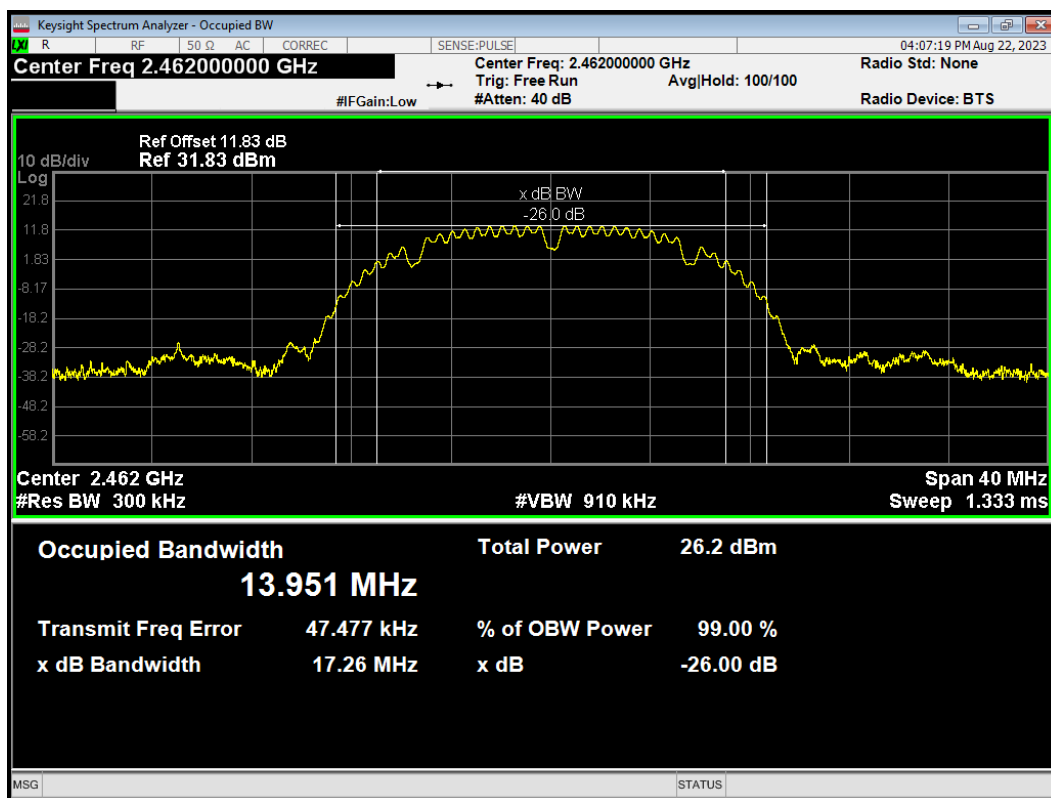
OBW 802.11b 2452MHz



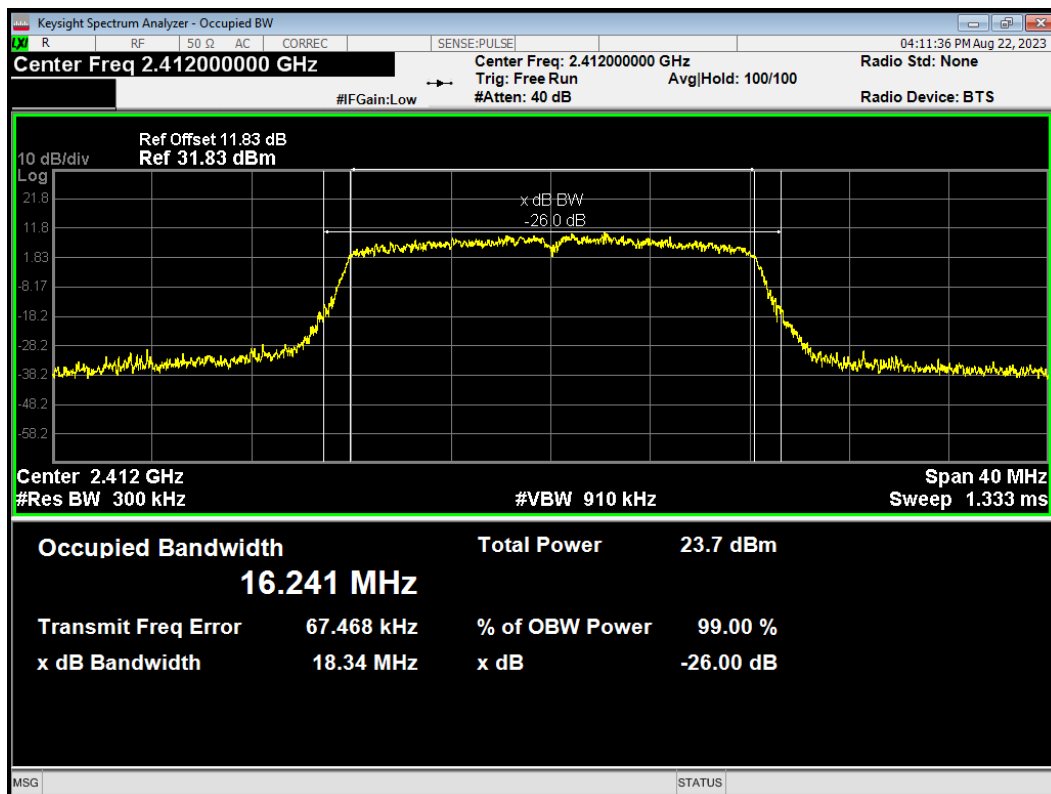
OBW 802.11b 2457MHz



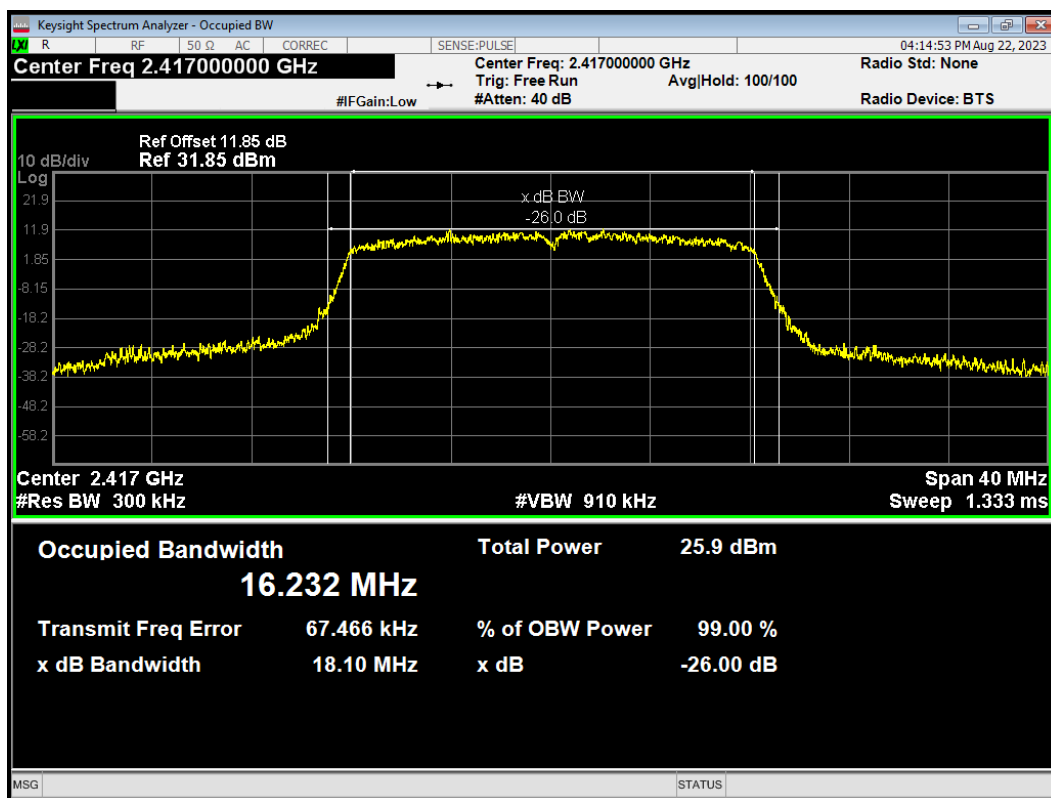
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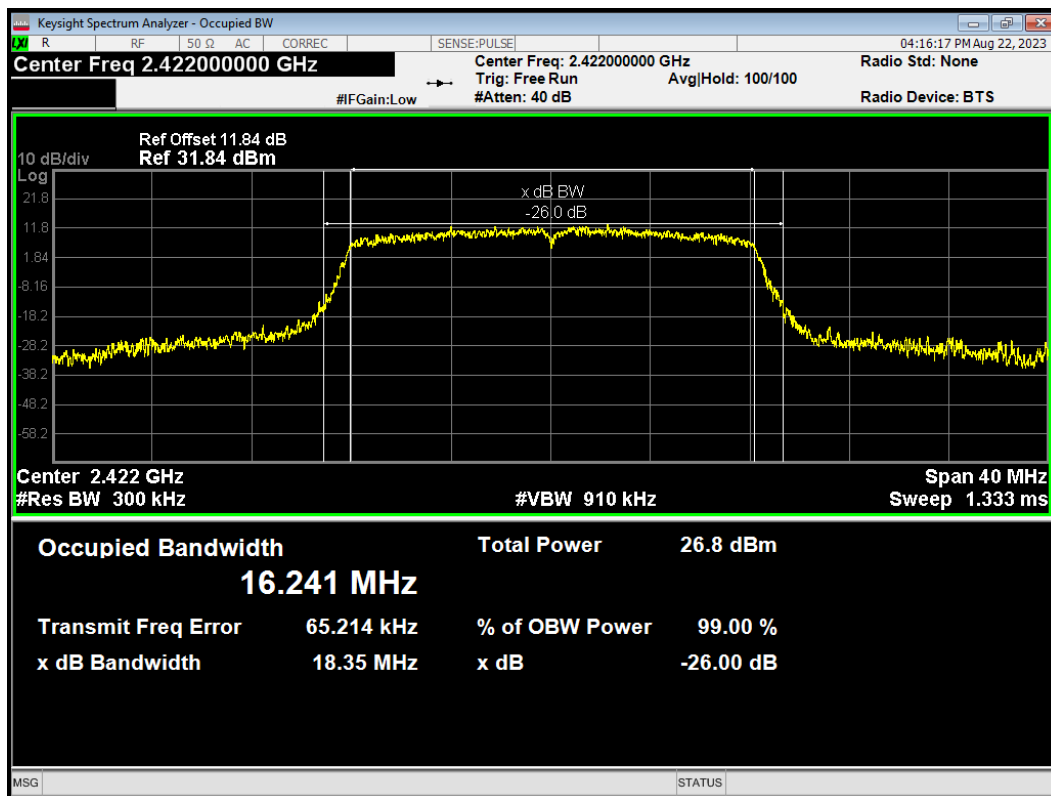
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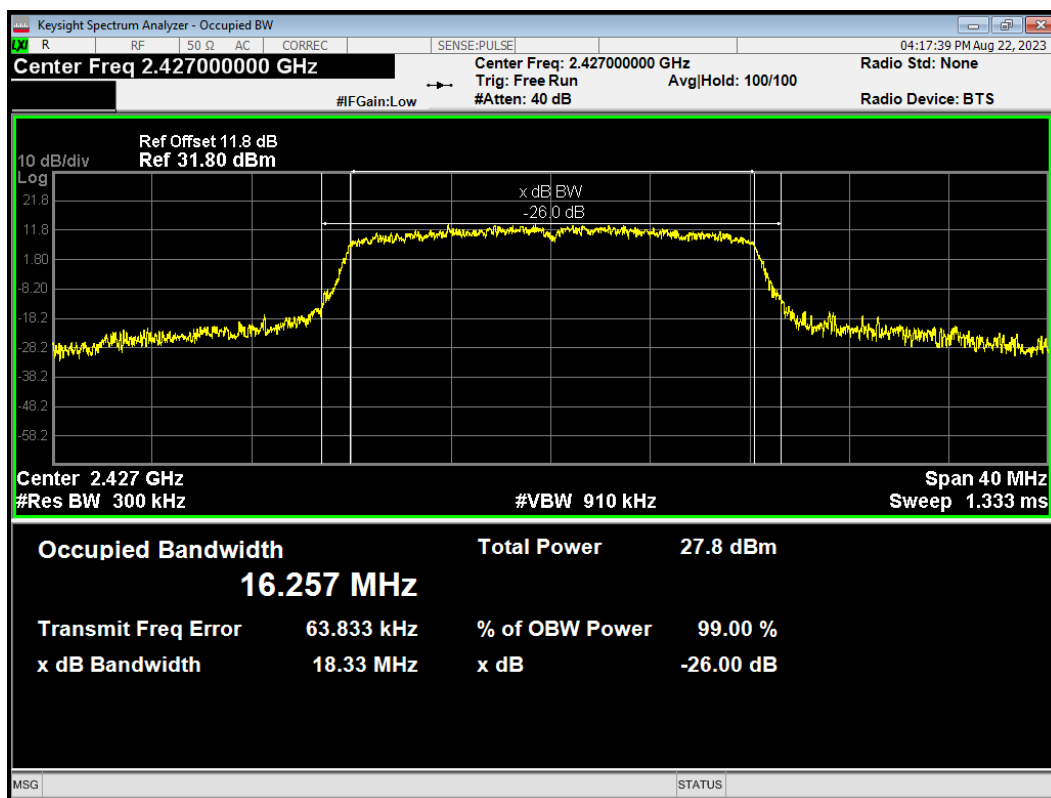
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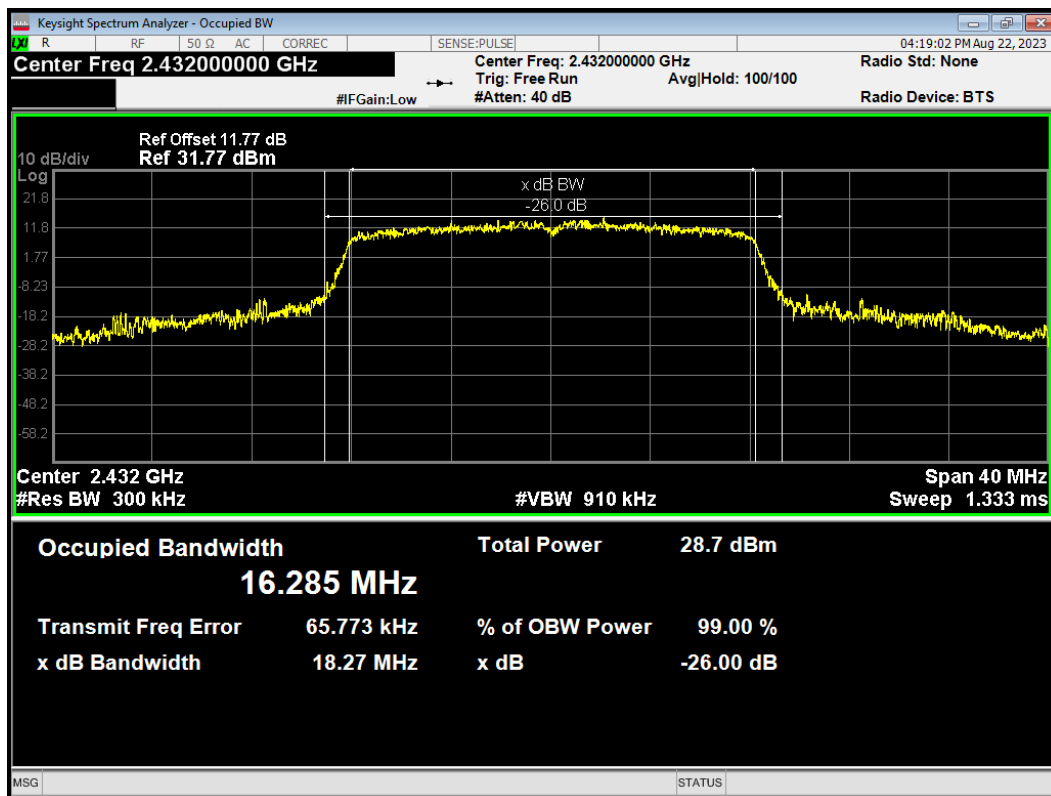
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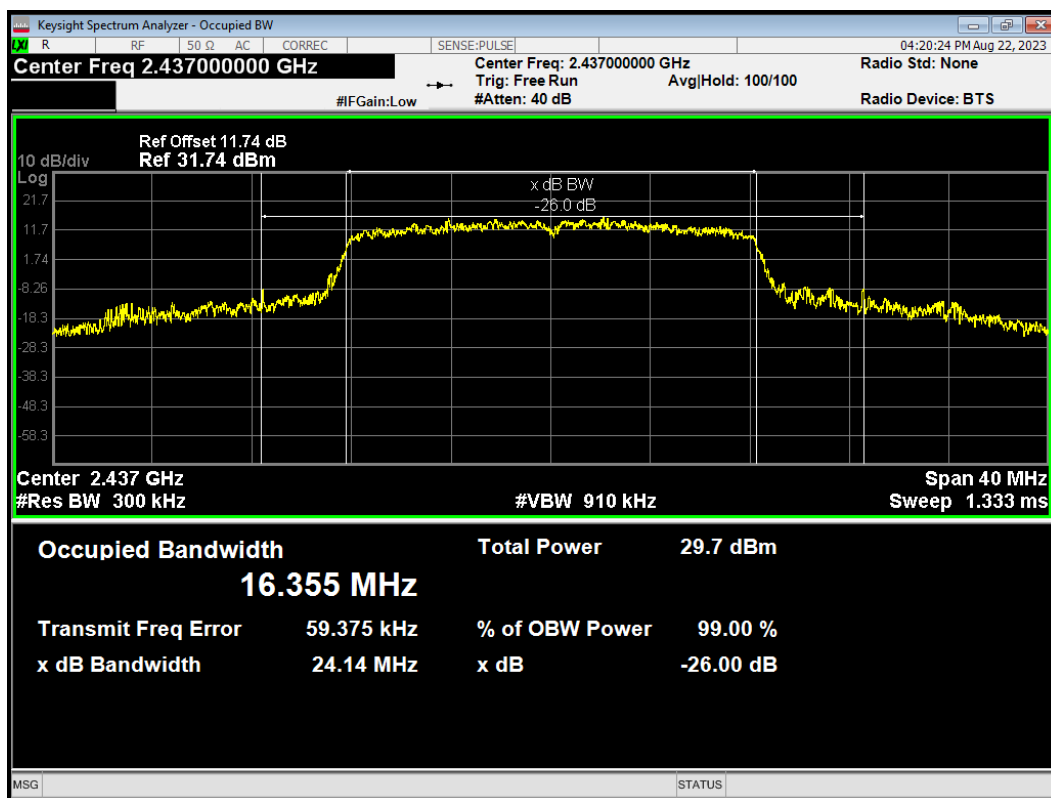
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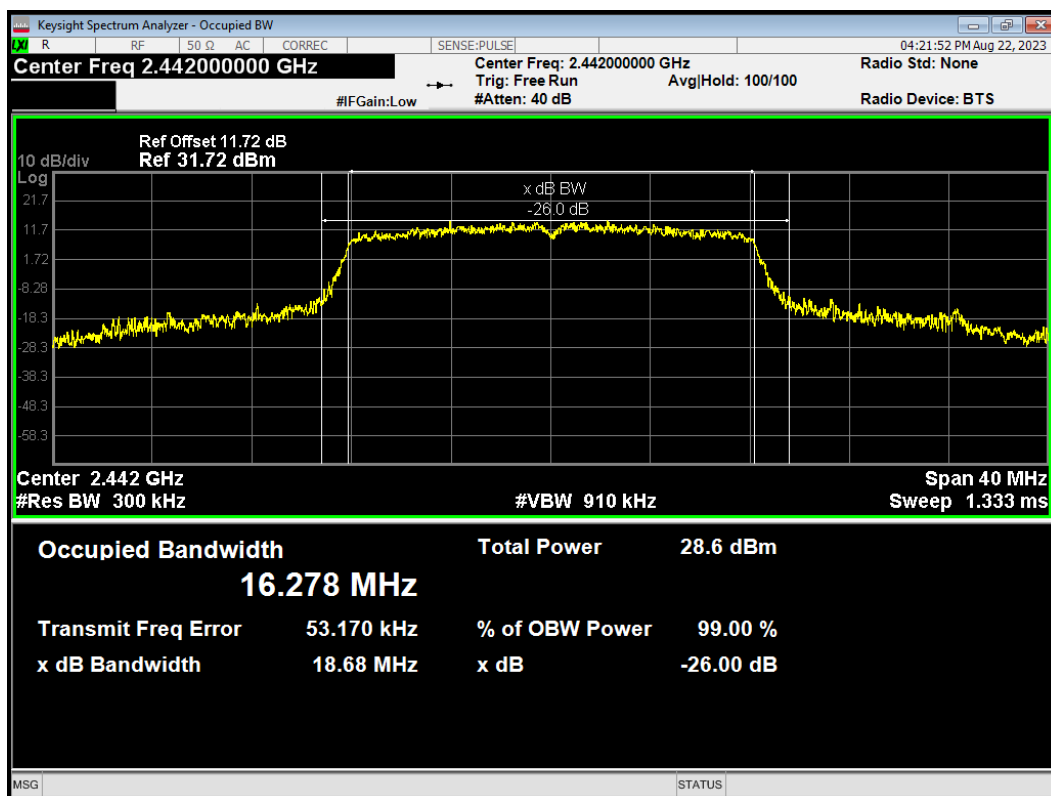
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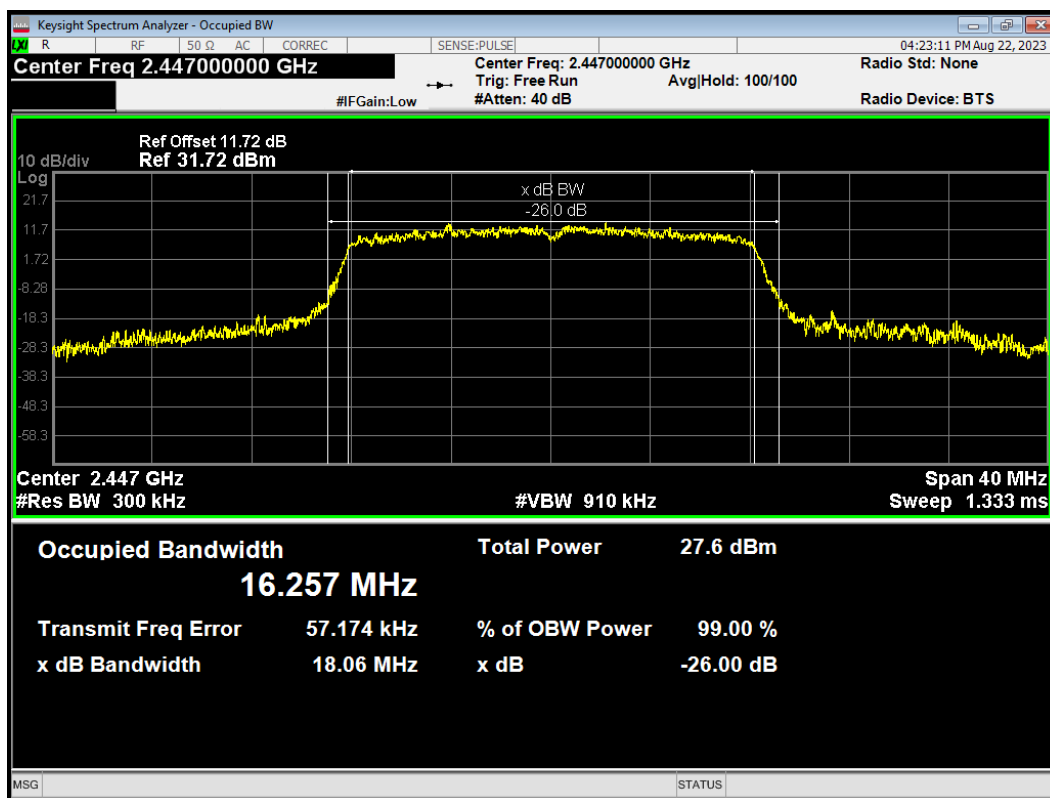
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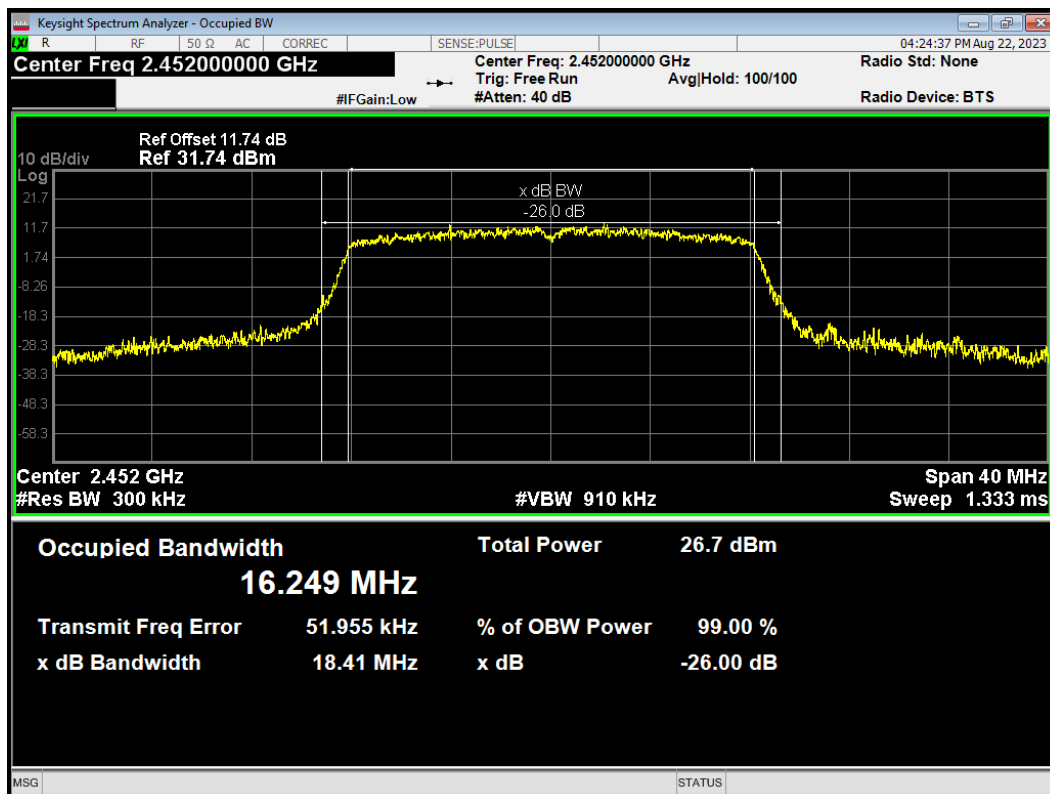
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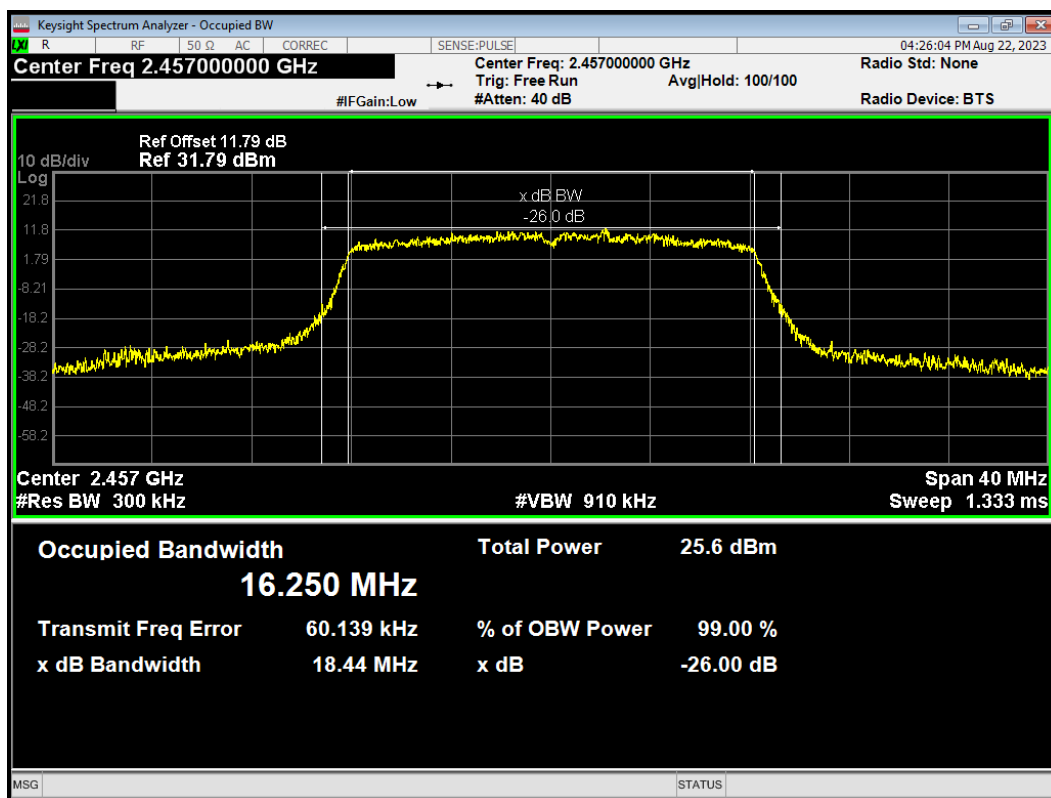
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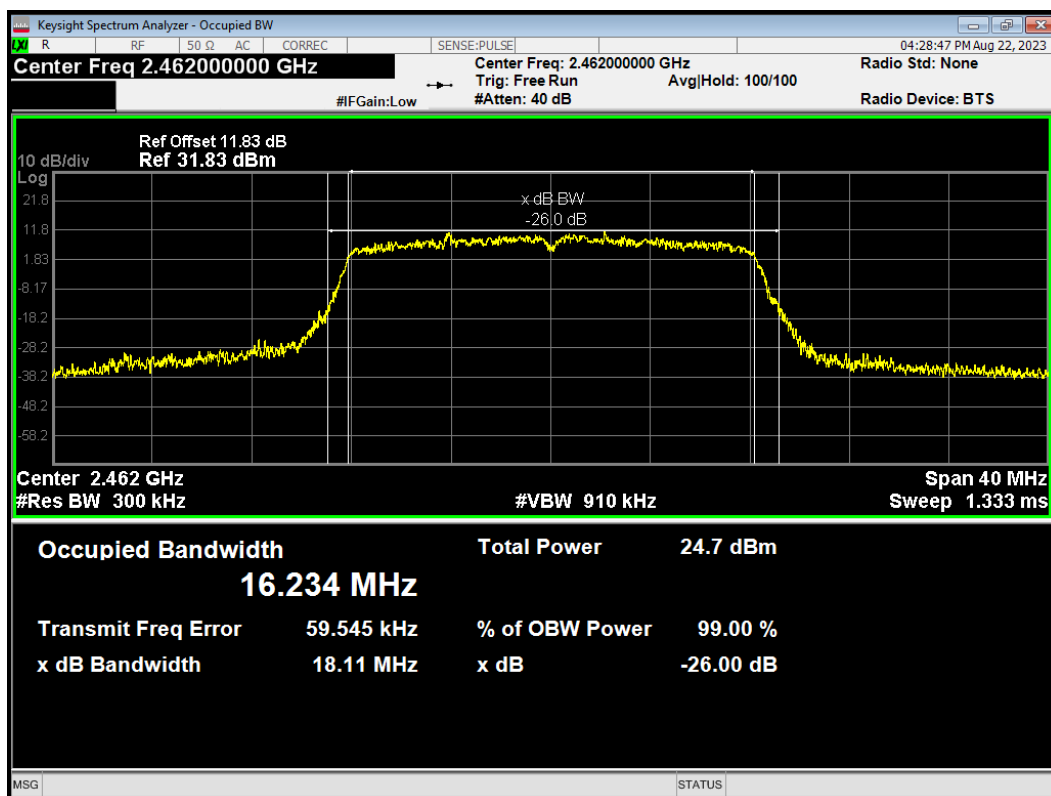
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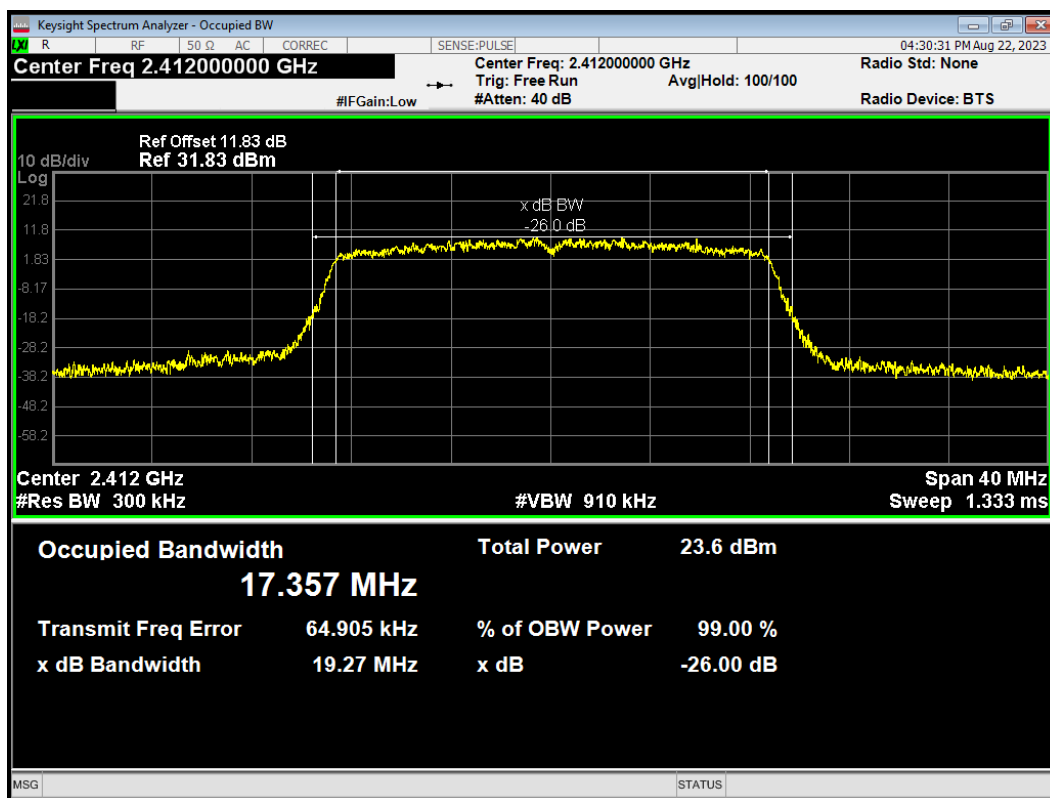
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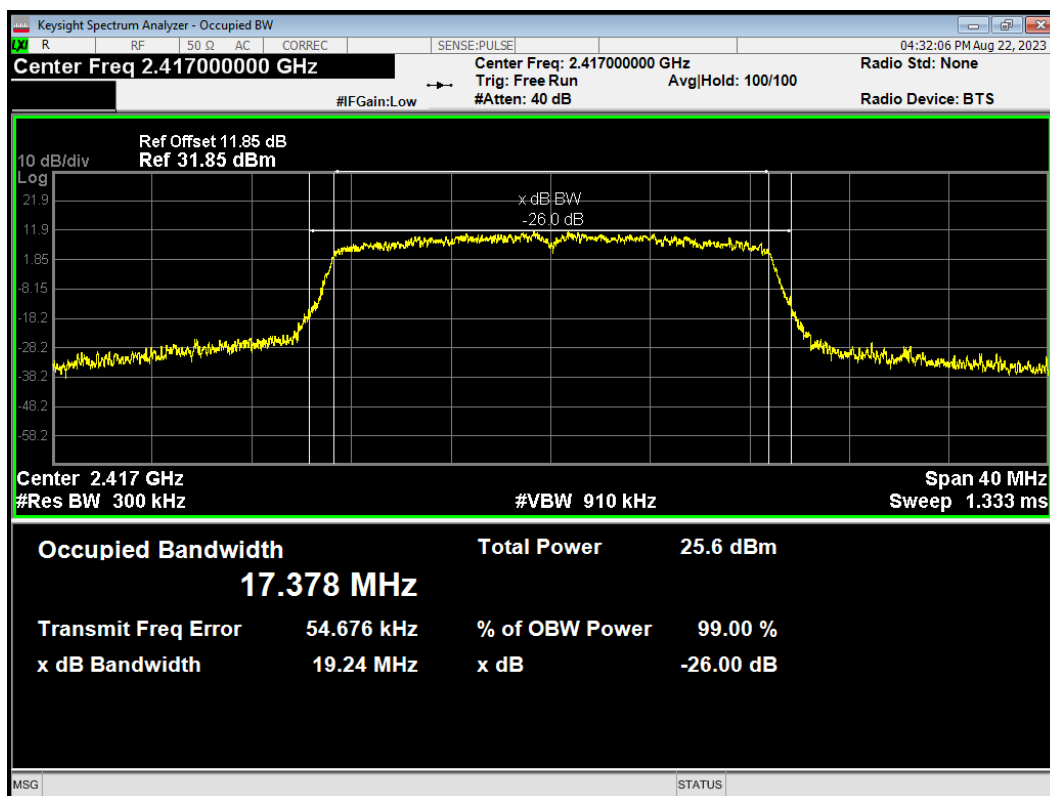
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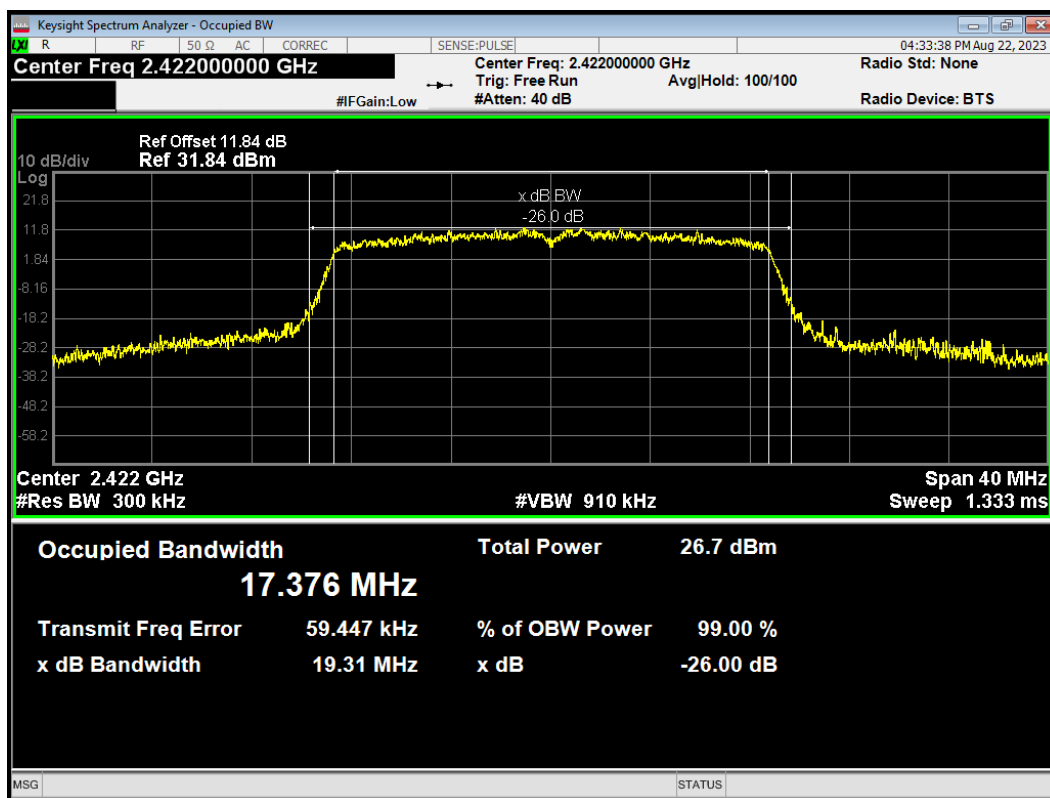
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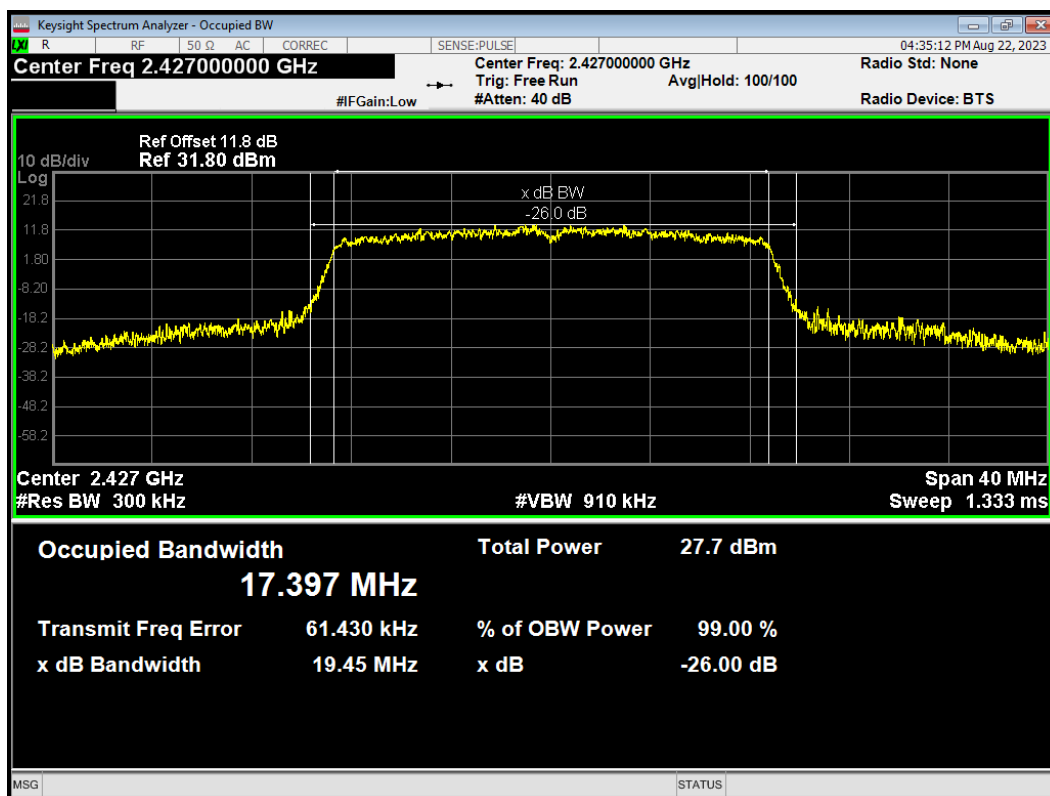
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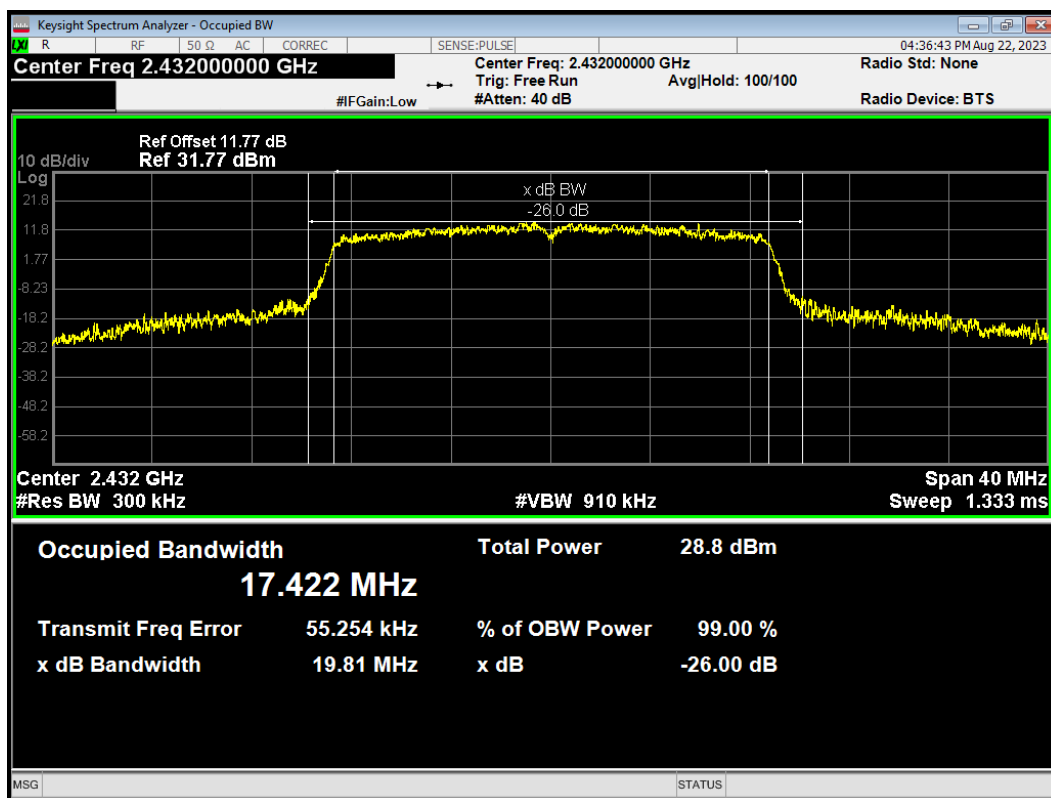
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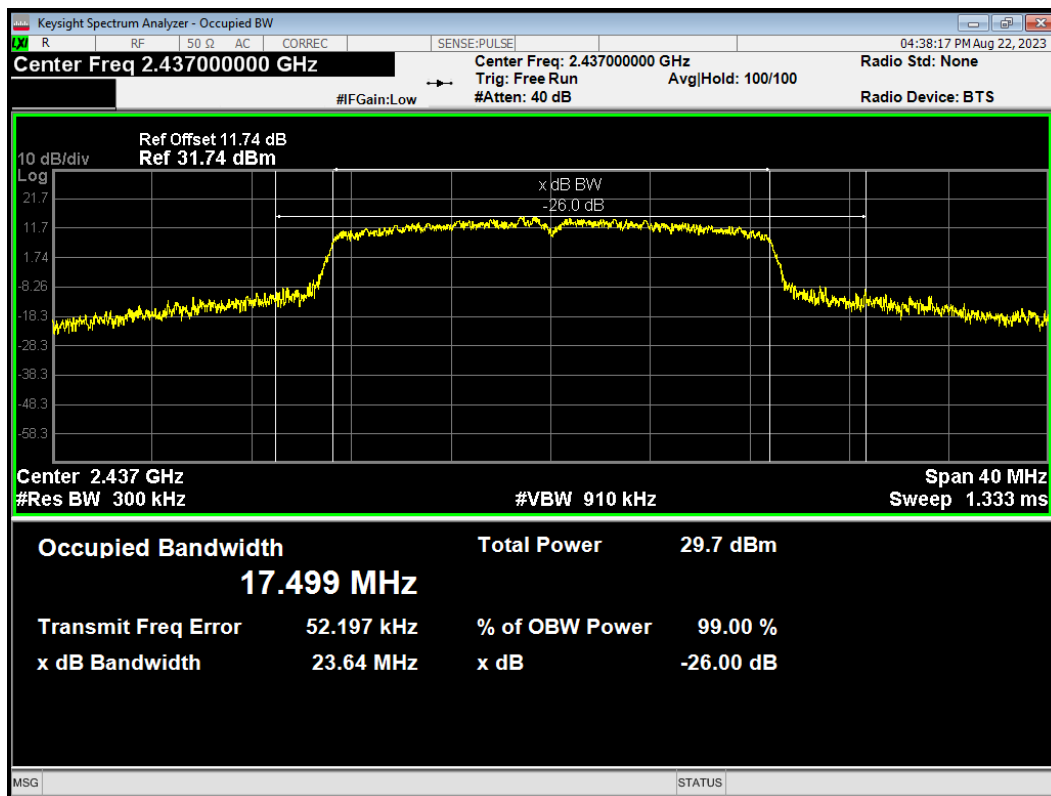
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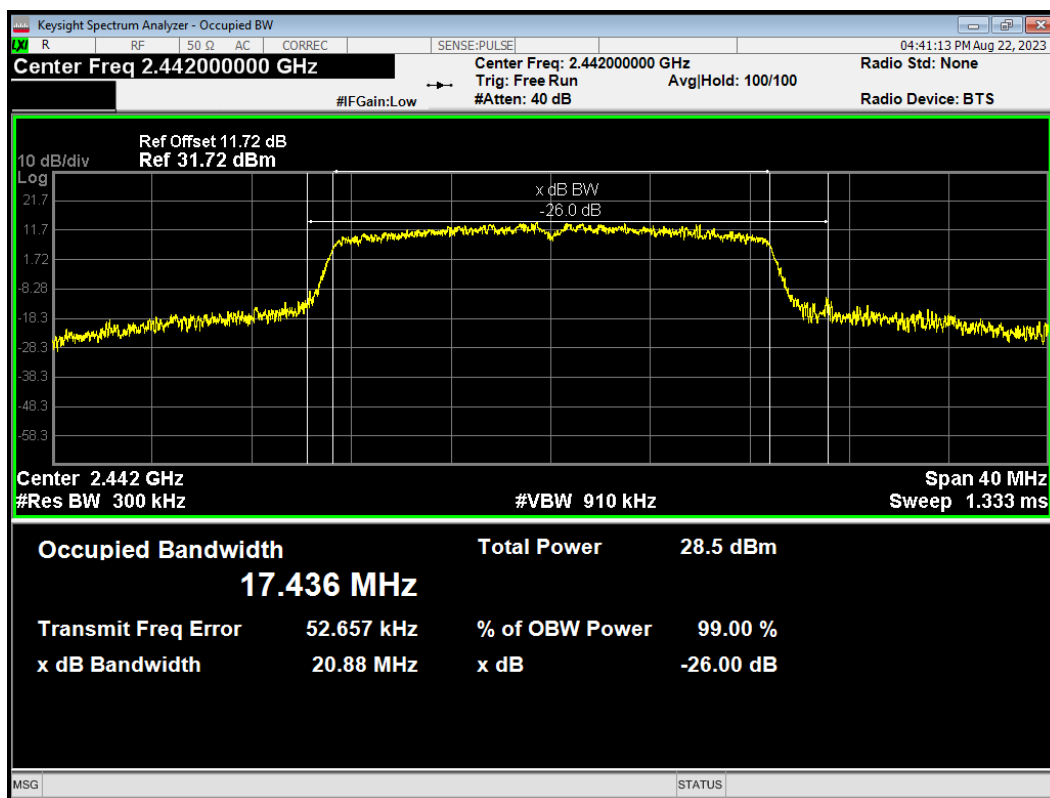
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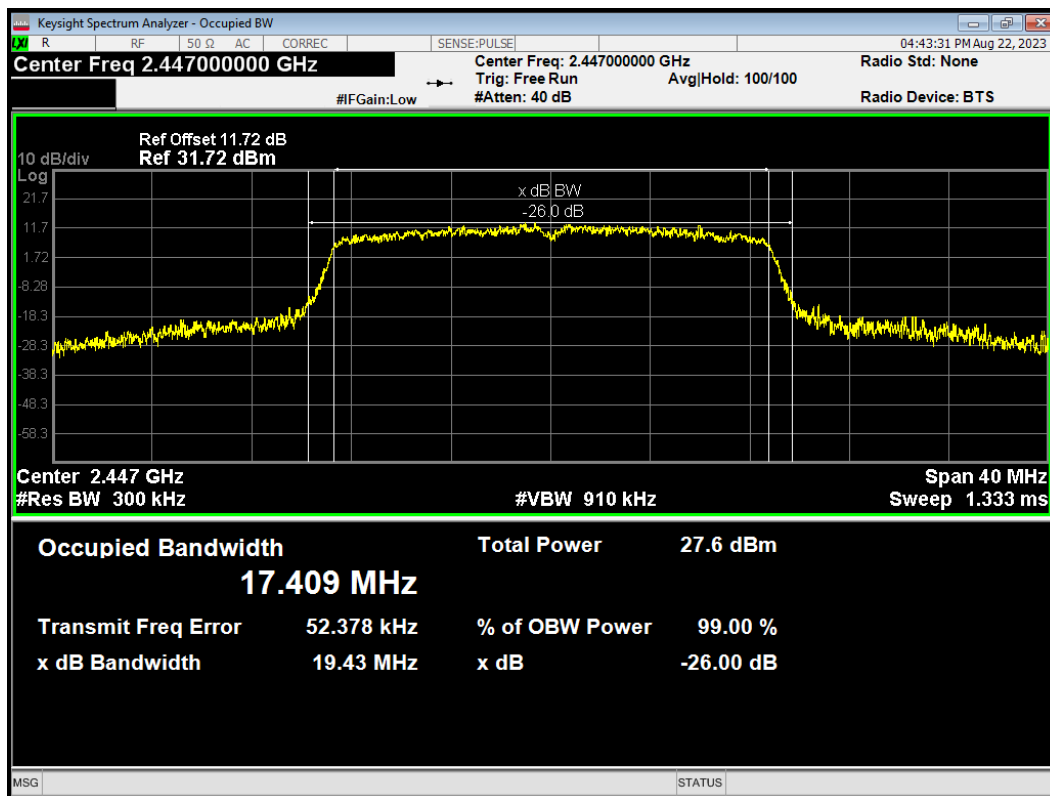
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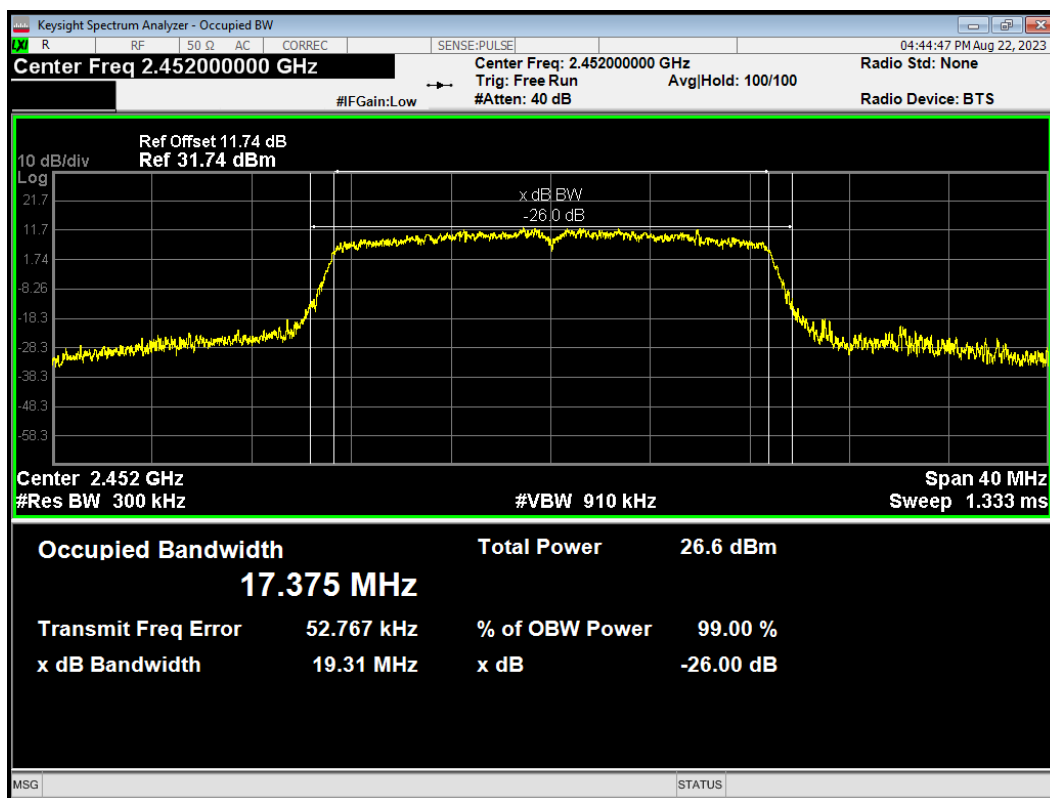
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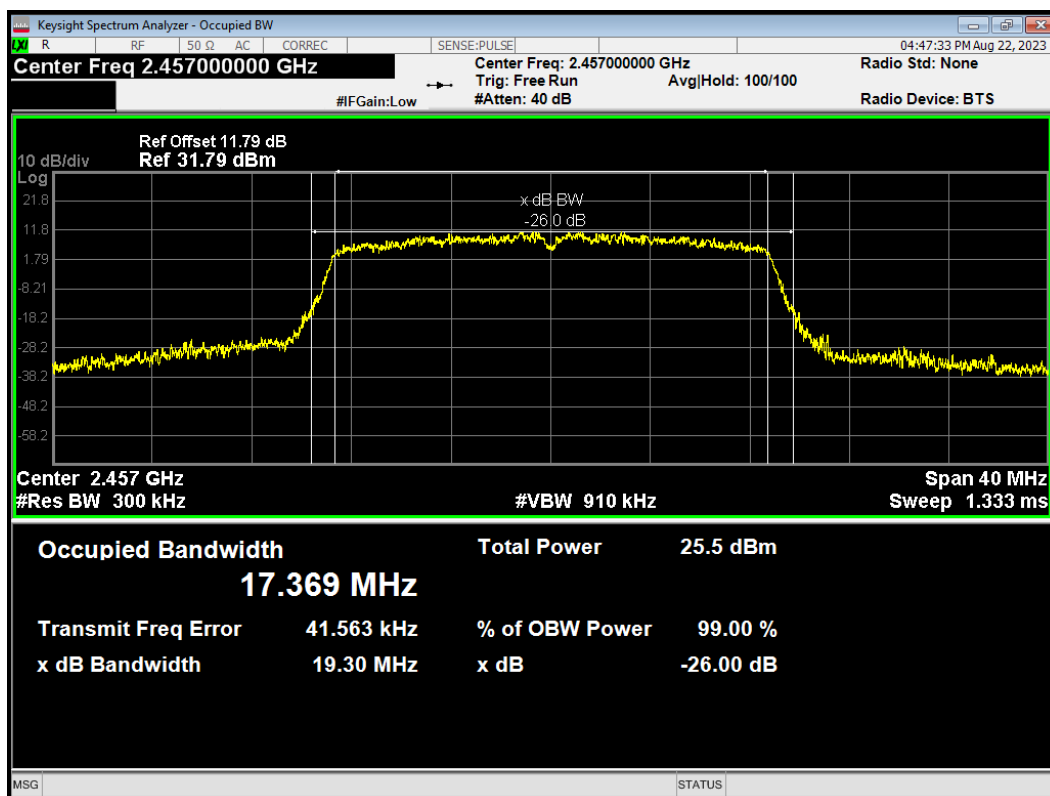
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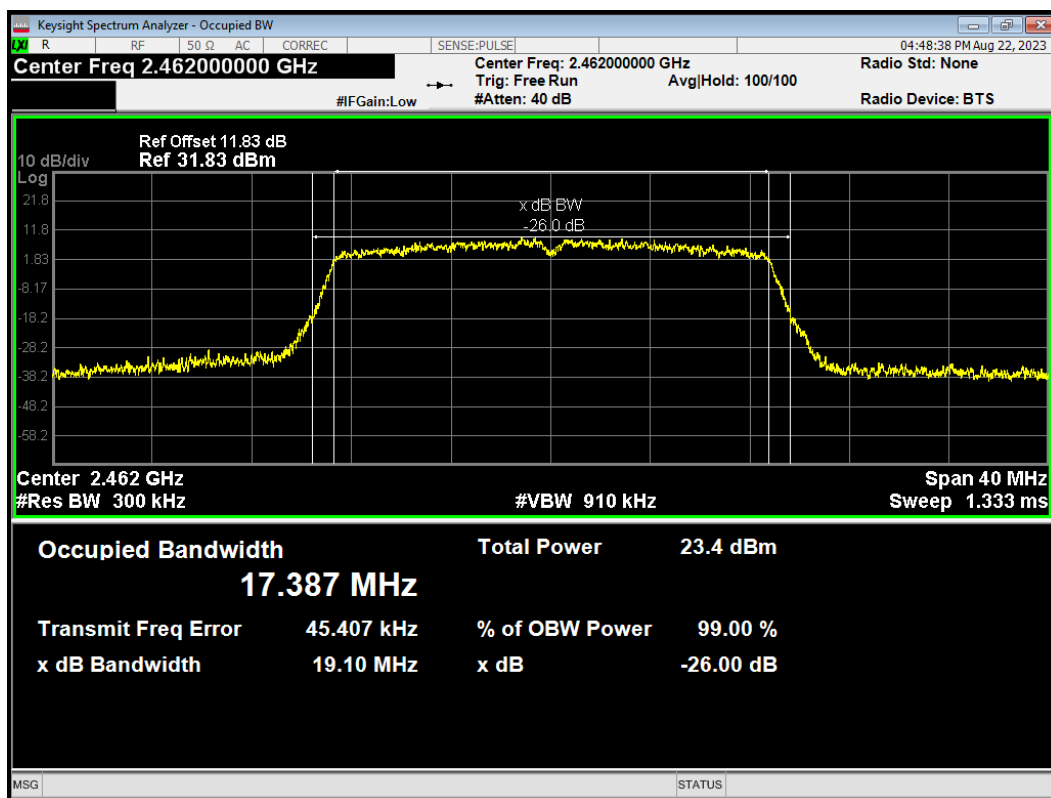
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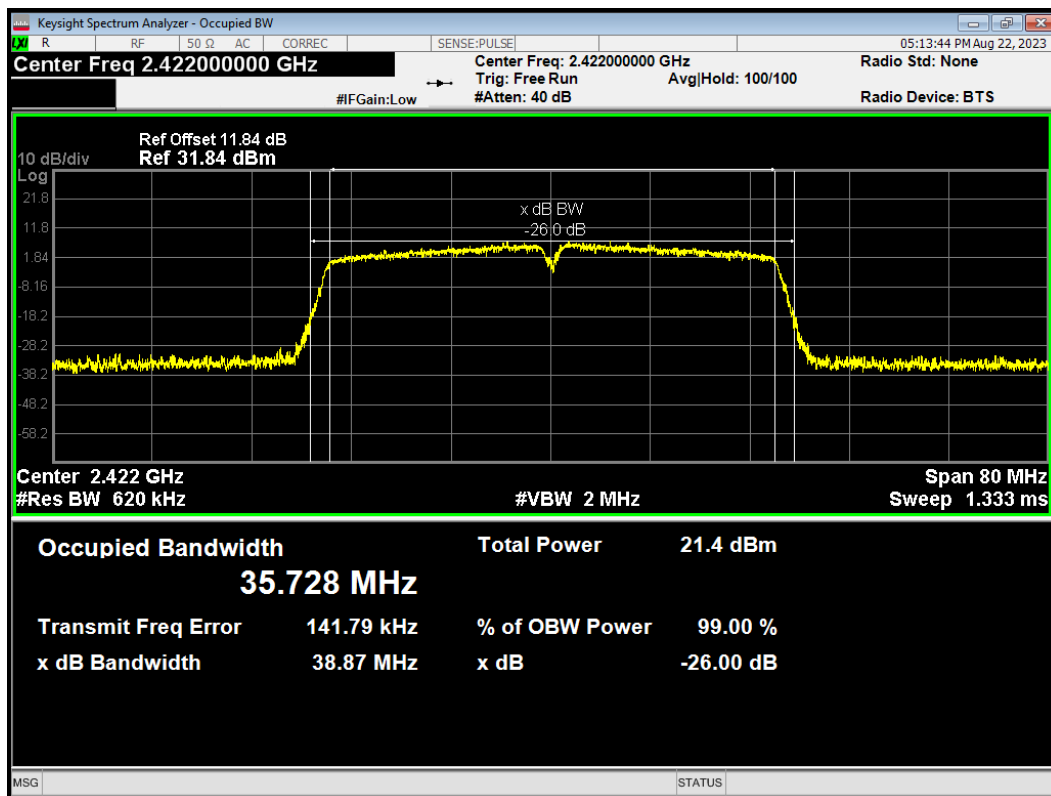
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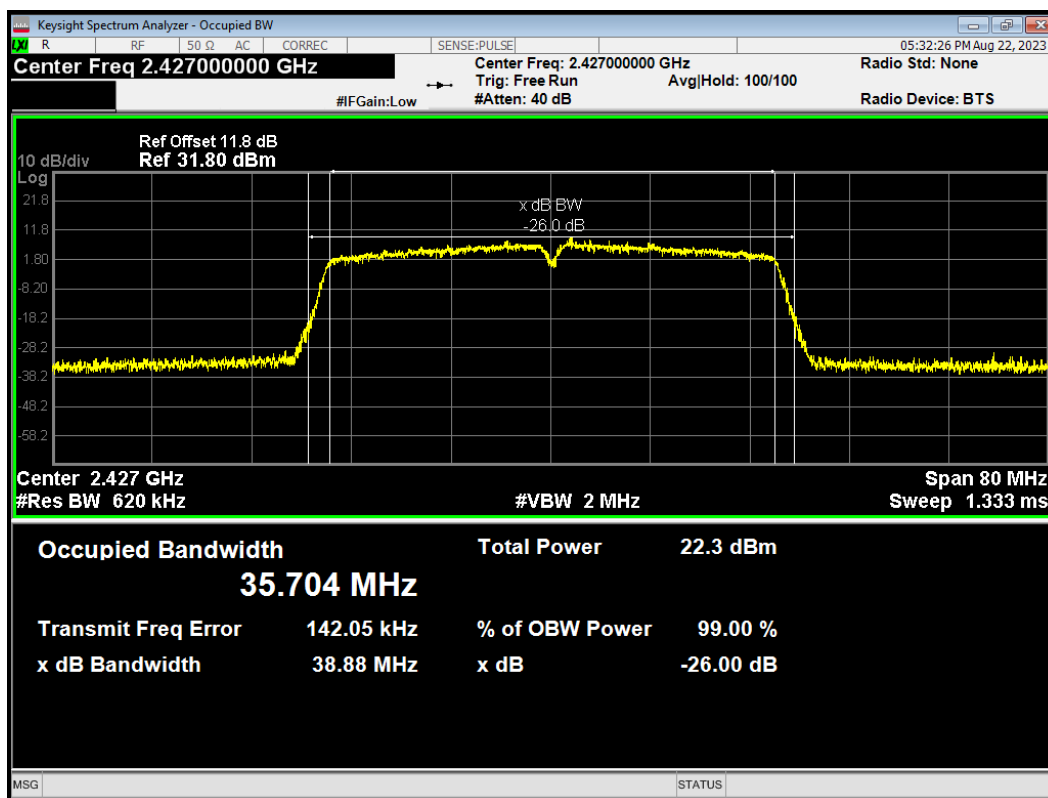
OBW 802.11n(HT20) 2462MHz



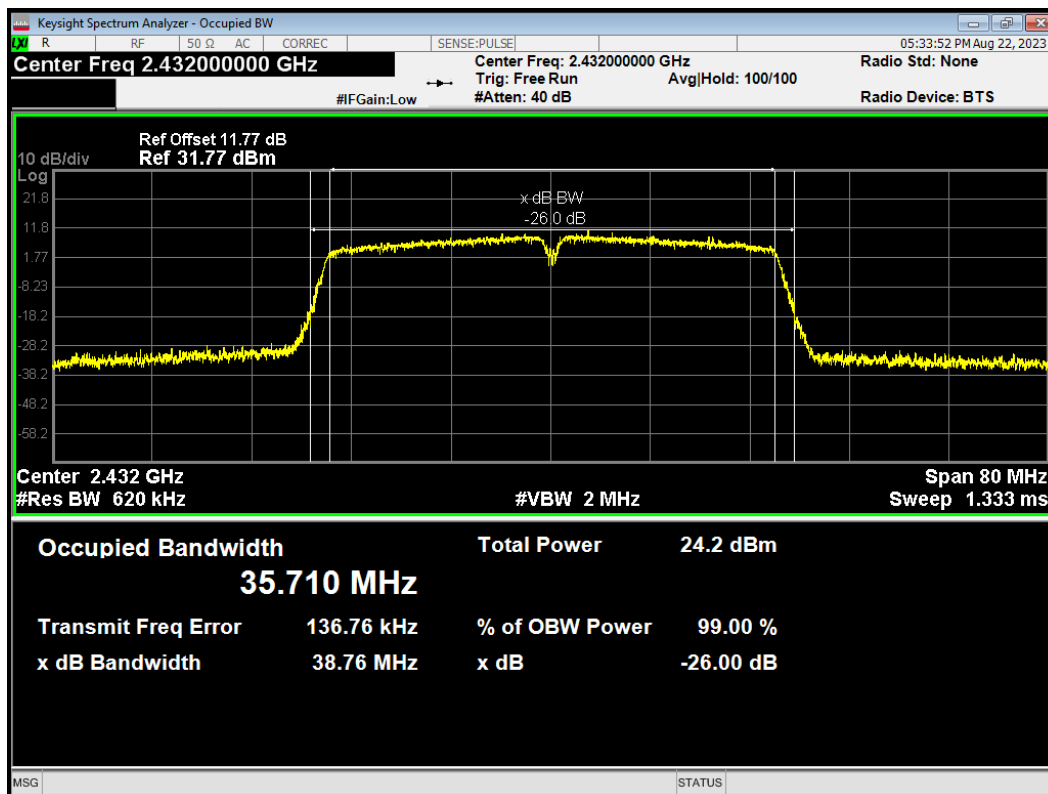
OBW 802.11n(HT40) 2422MHz



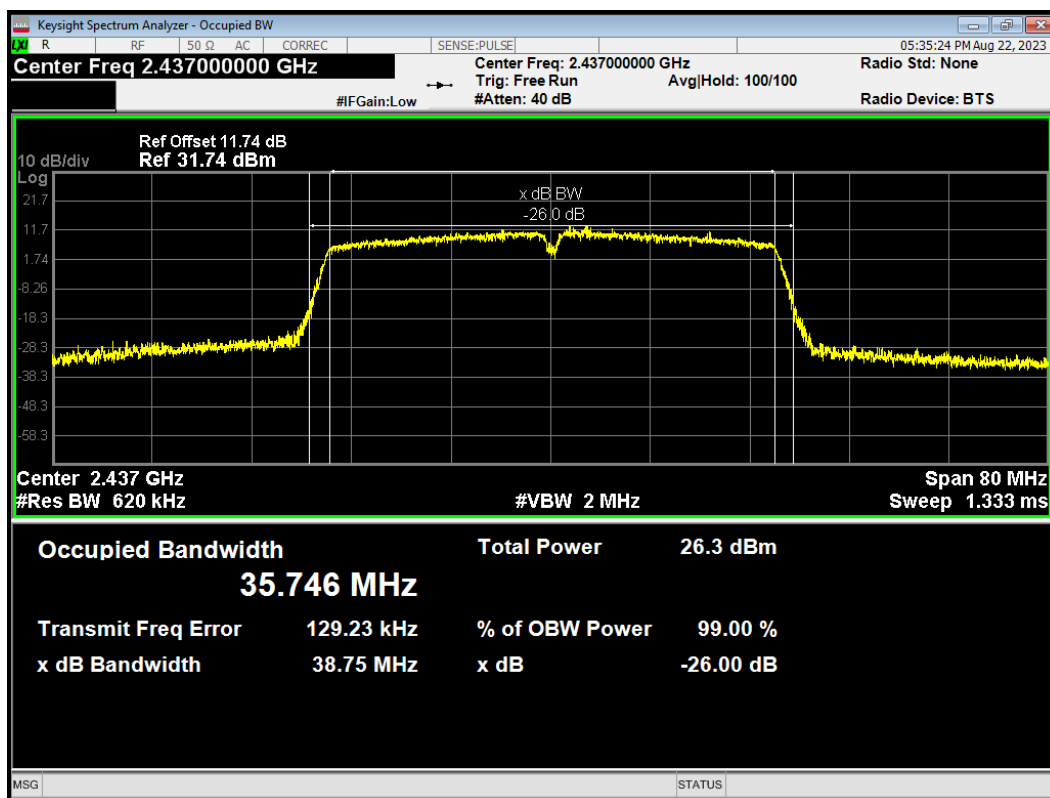
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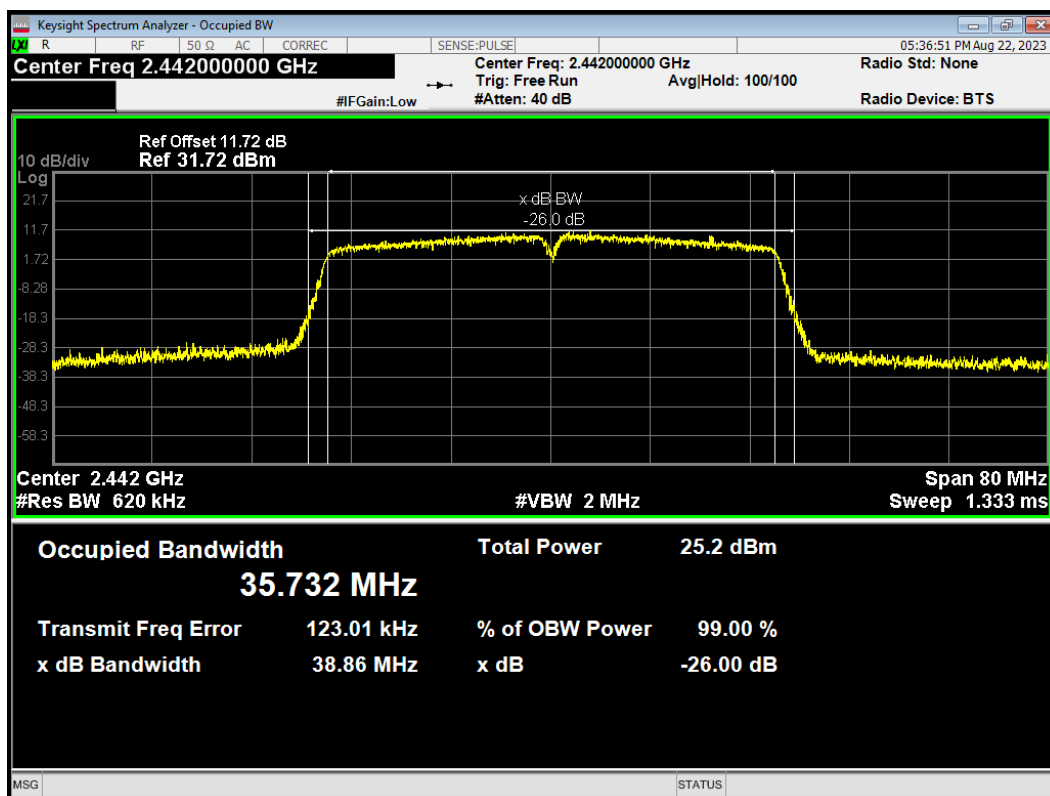
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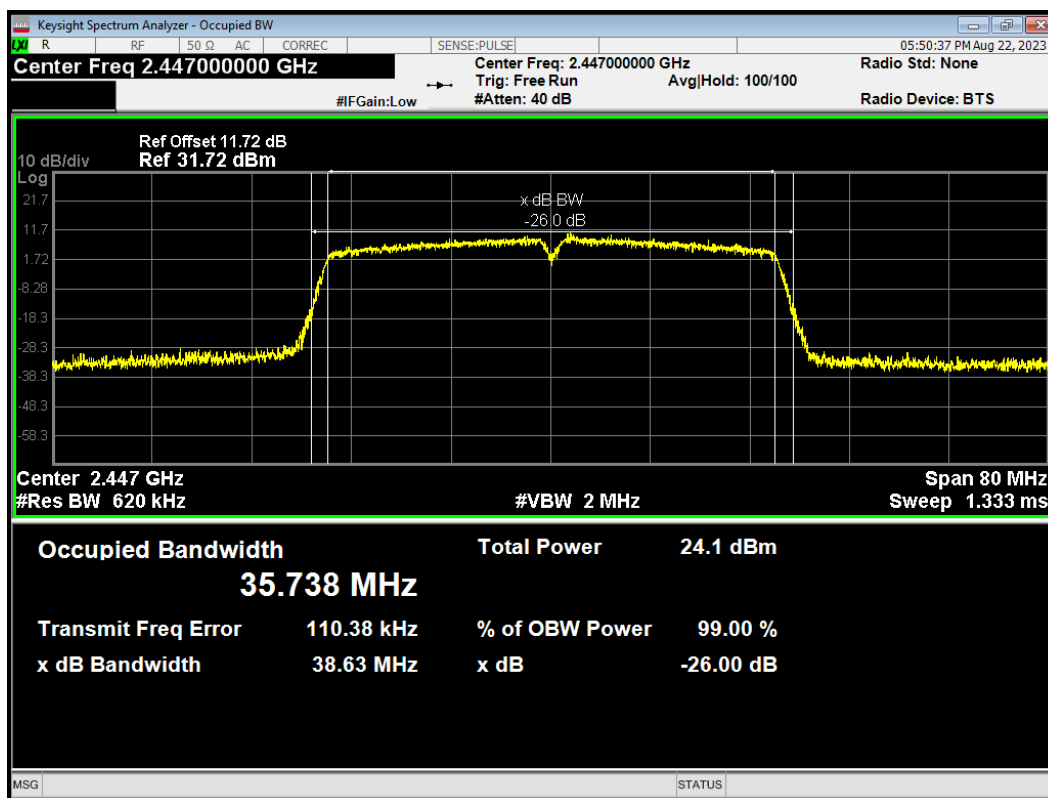
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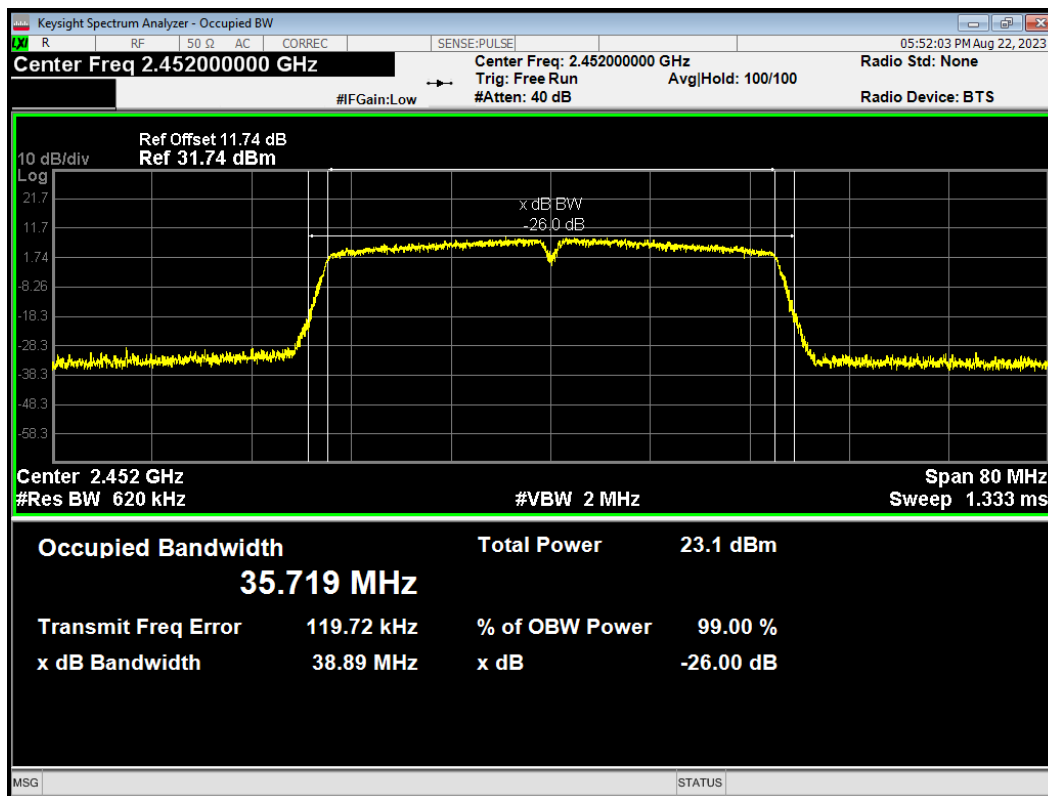
OBW 802.11n(HT40) 2442MHz



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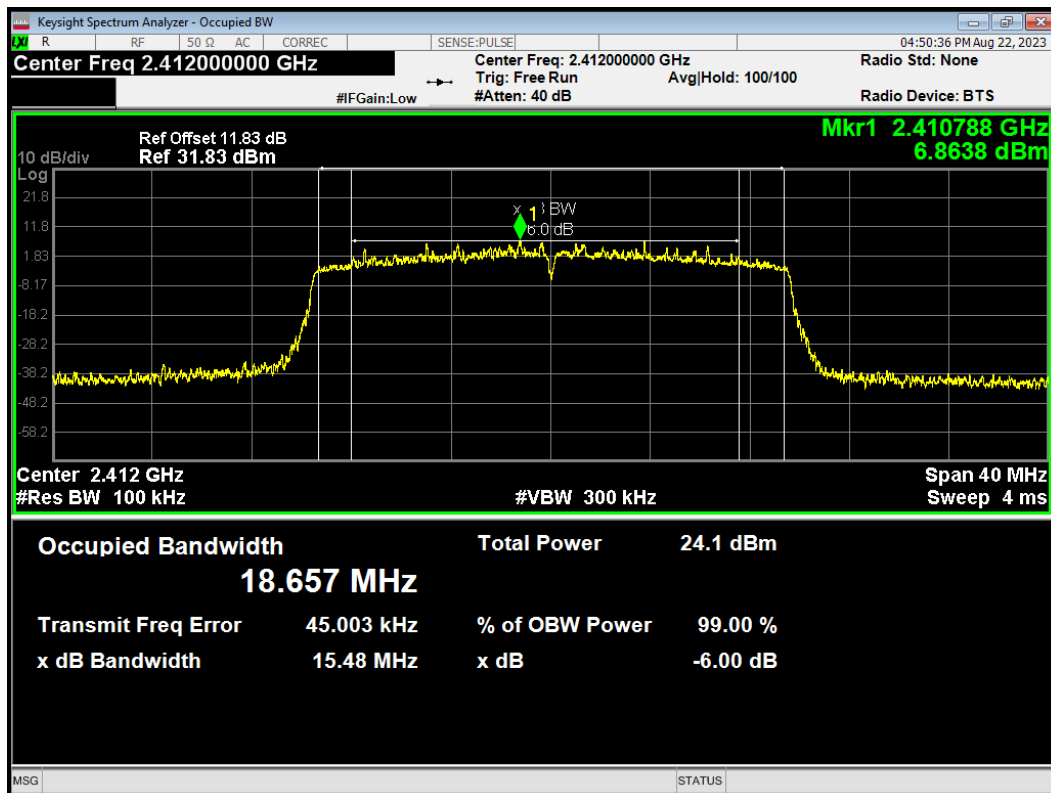


OBW 802.11n(HT40) 2452MHz

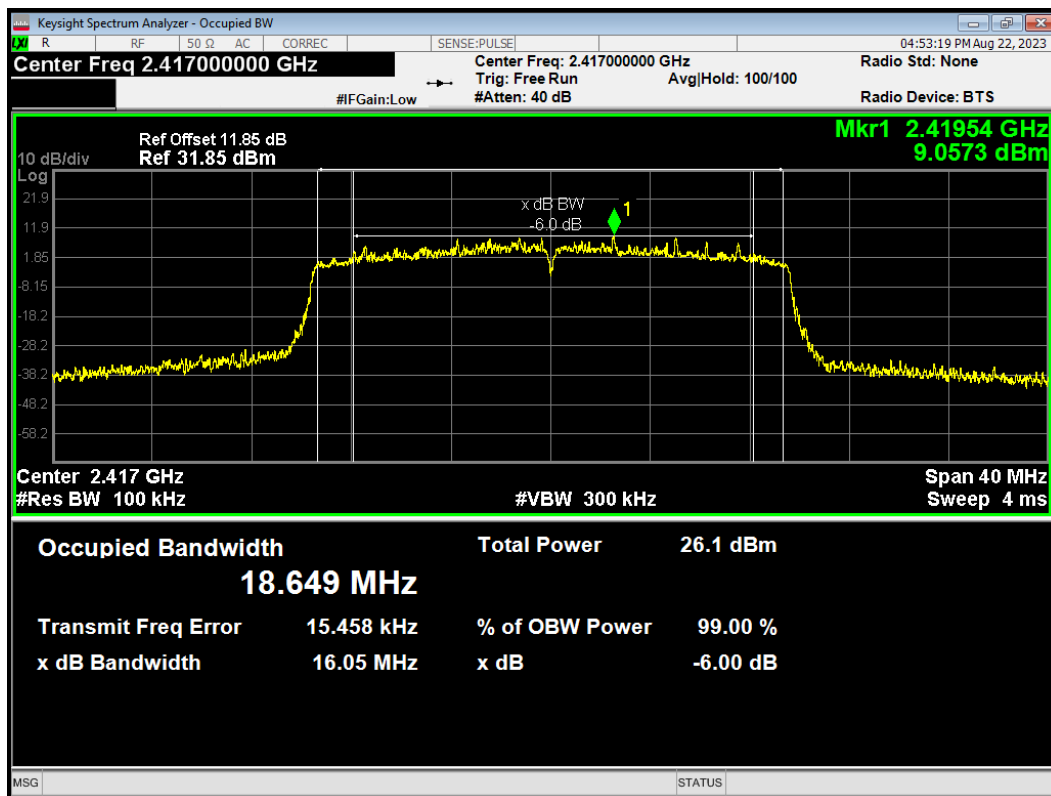


6 dB bandwidth

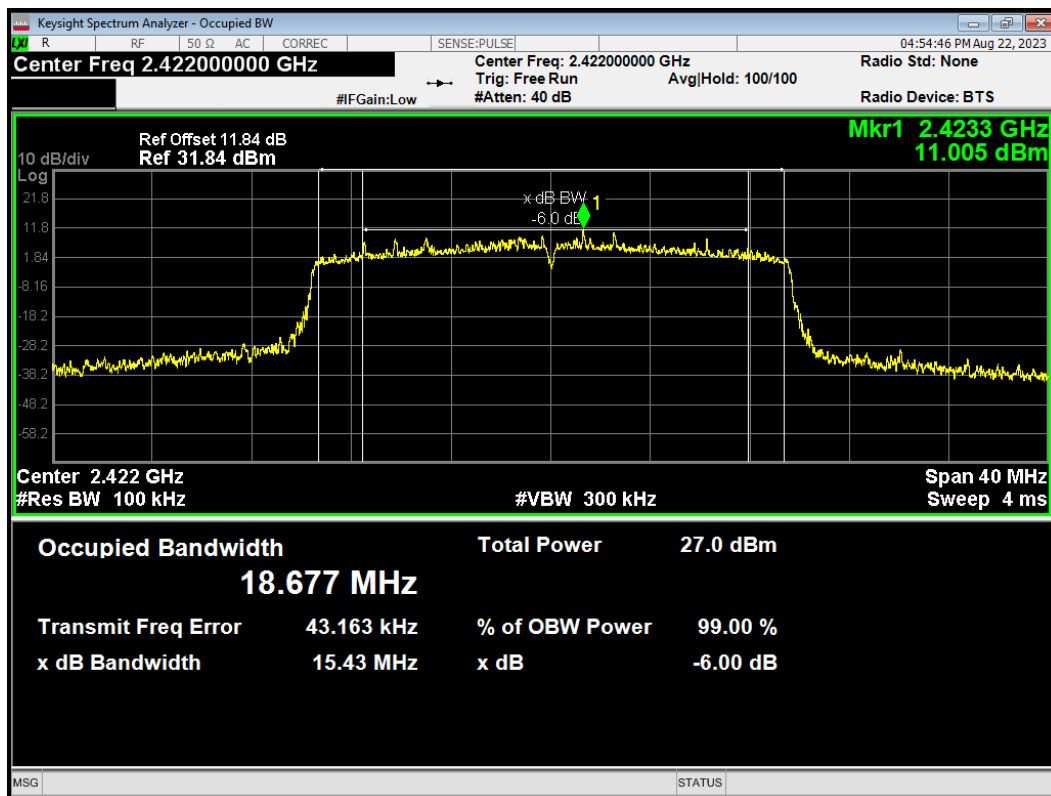
-6dB Bandwidth 802.11ax(HE20) 2412MHz



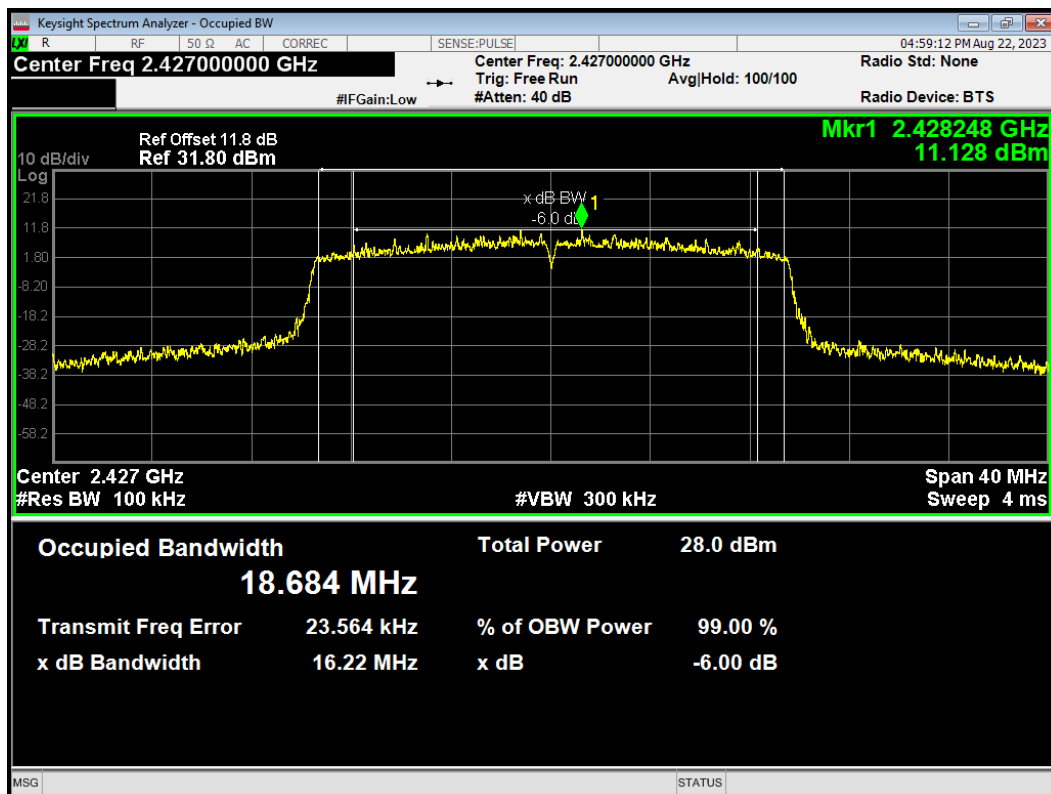
-6dB Bandwidth 802.11ax(HE20) 2417MHz



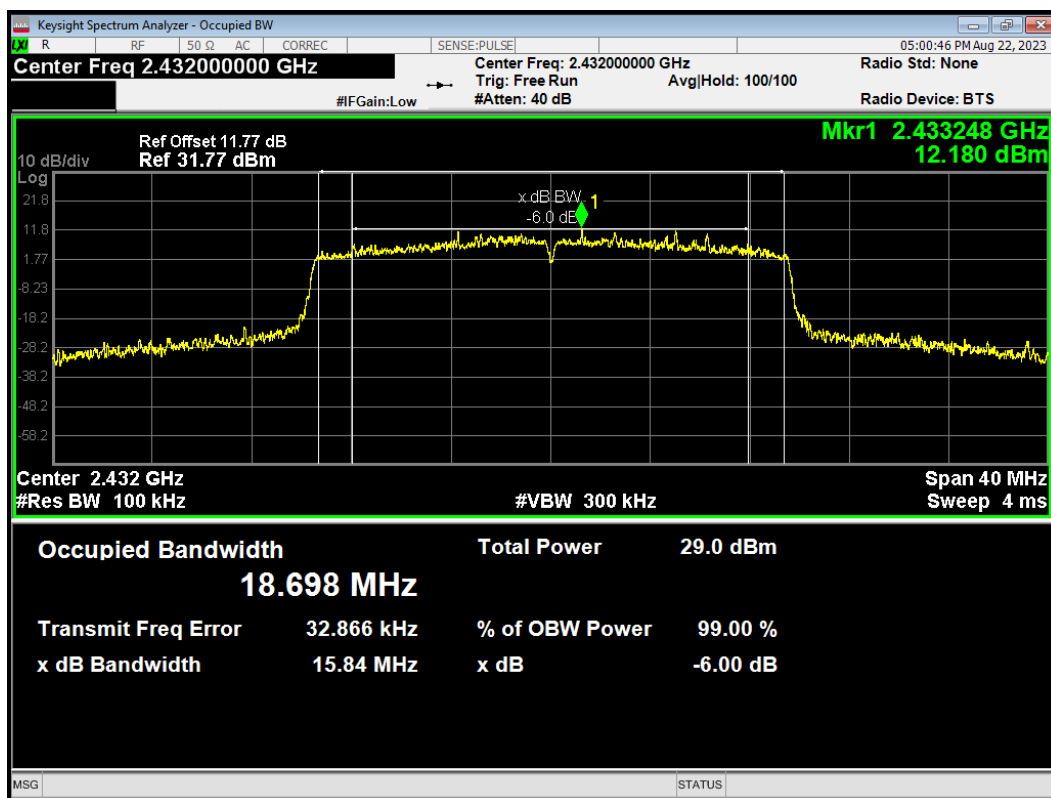
-6dB Bandwidth 802.11ax(HE20) 2422MHz



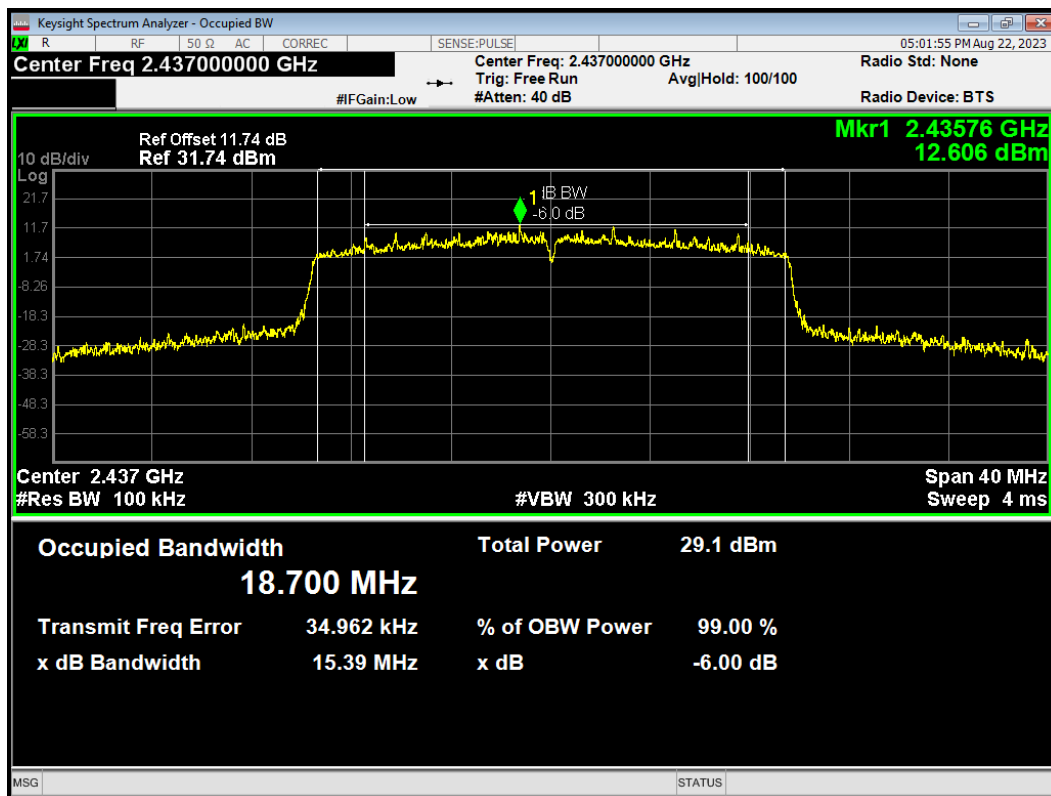
-6dB Bandwidth 802.11ax(HE20) 2427MHz



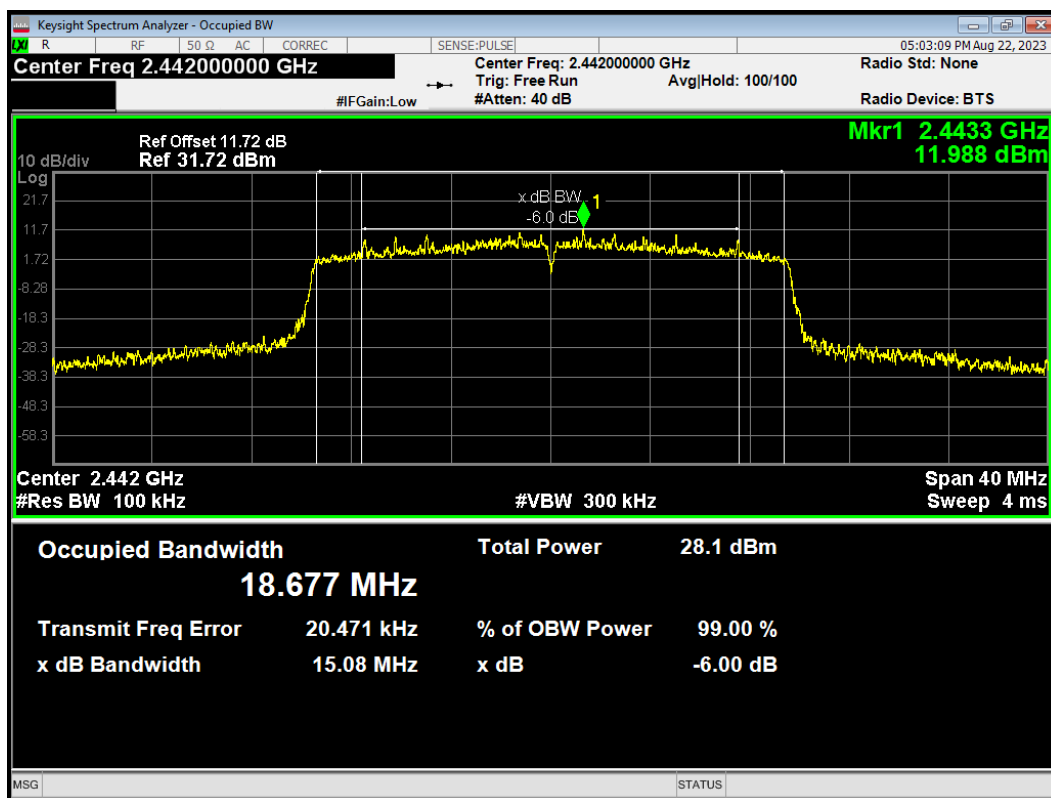
-6dB Bandwidth 802.11ax(HE20) 2432MHz



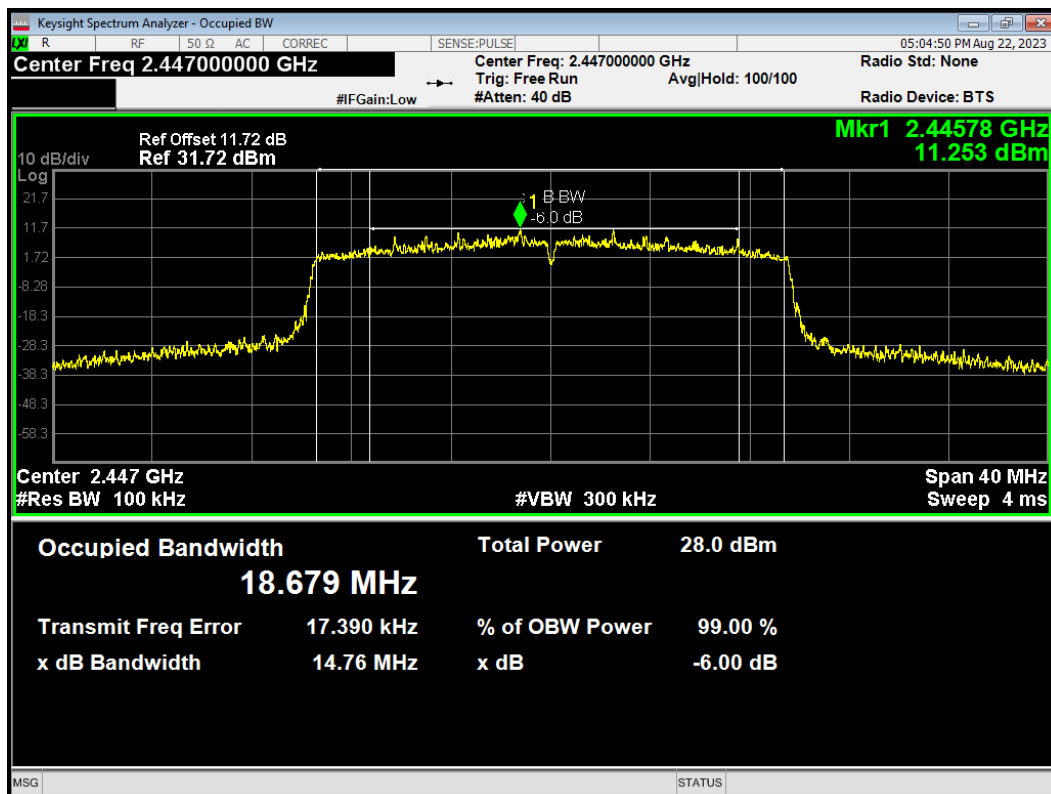
-6dB Bandwidth 802.11ax(HE20) 2437MHz



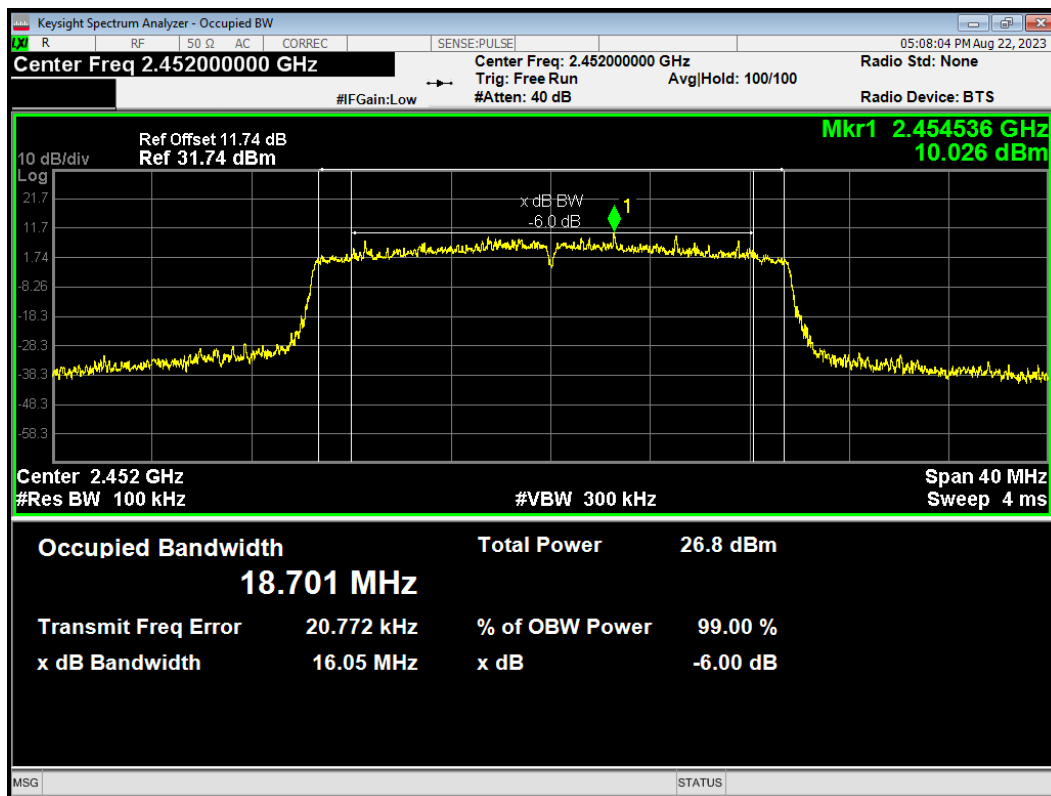
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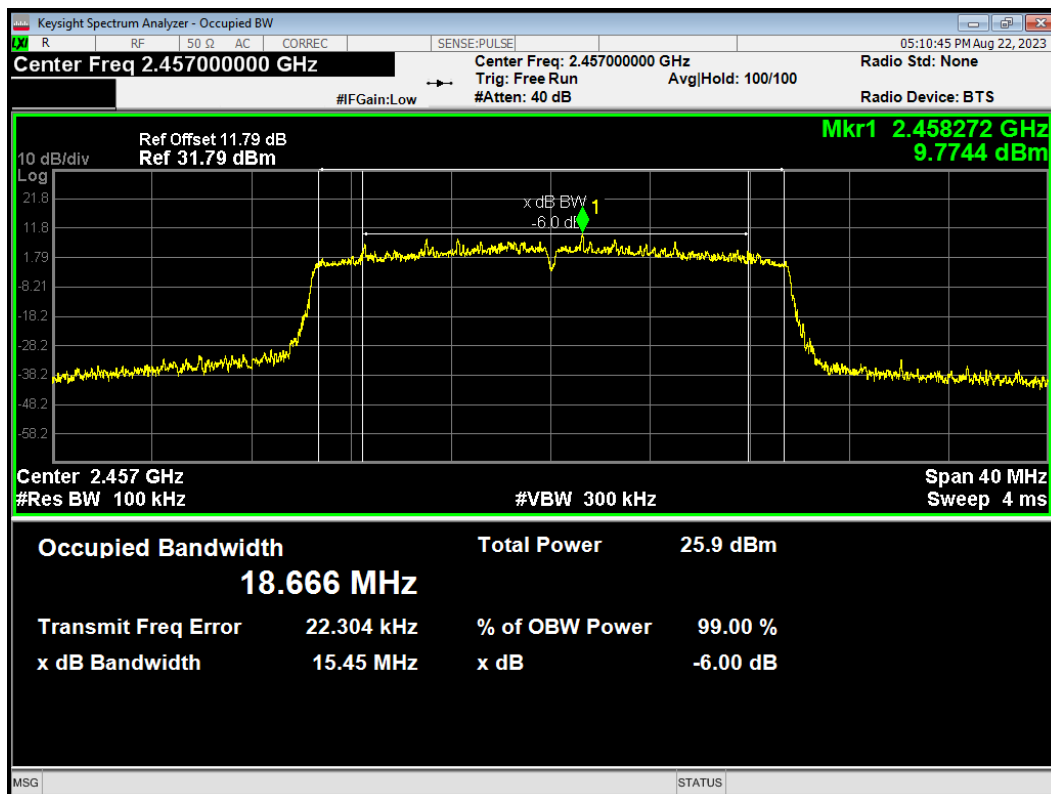
-6dB Bandwidth 802.11ax(HE20) 2447MHz



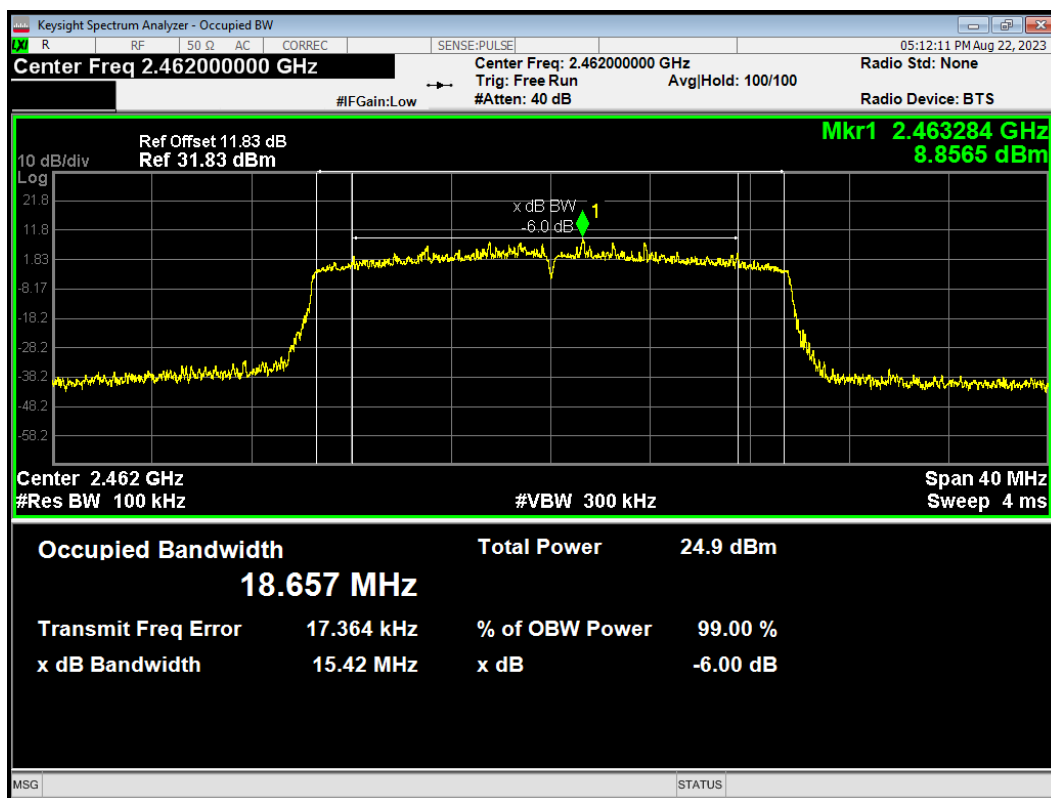
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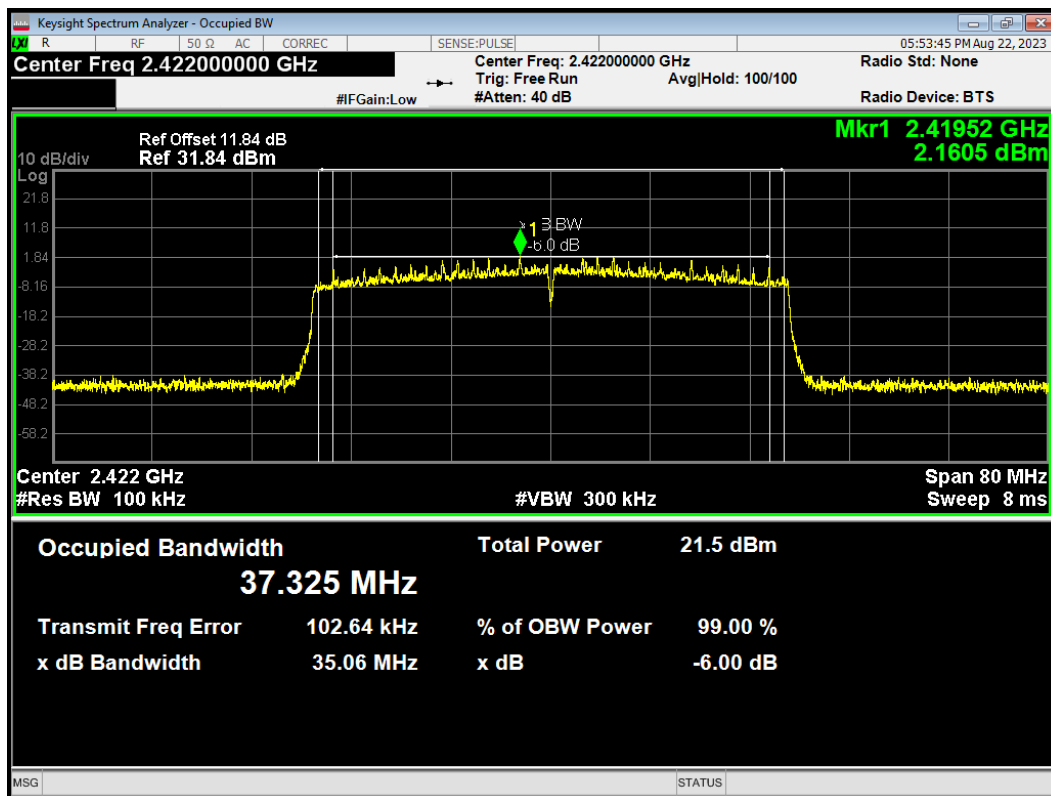
-6dB Bandwidth 802.11ax(HE20) 2457MHz



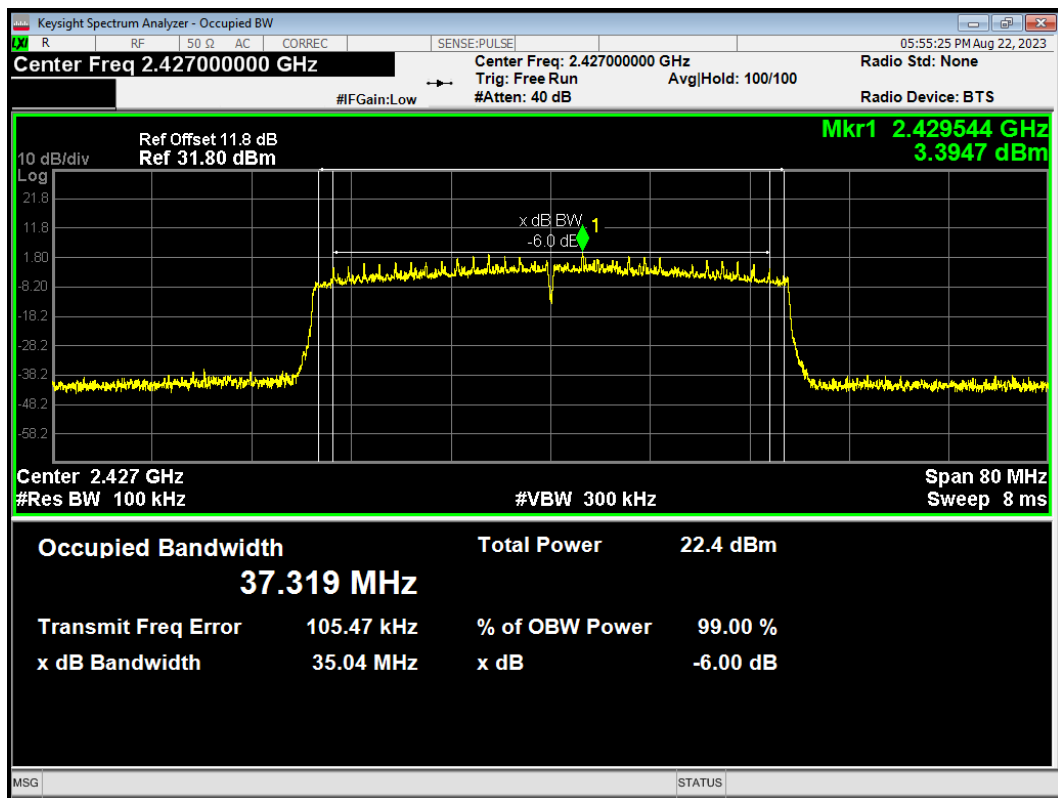
-6dB Bandwidth 802.11ax(HE20) 2462MHz



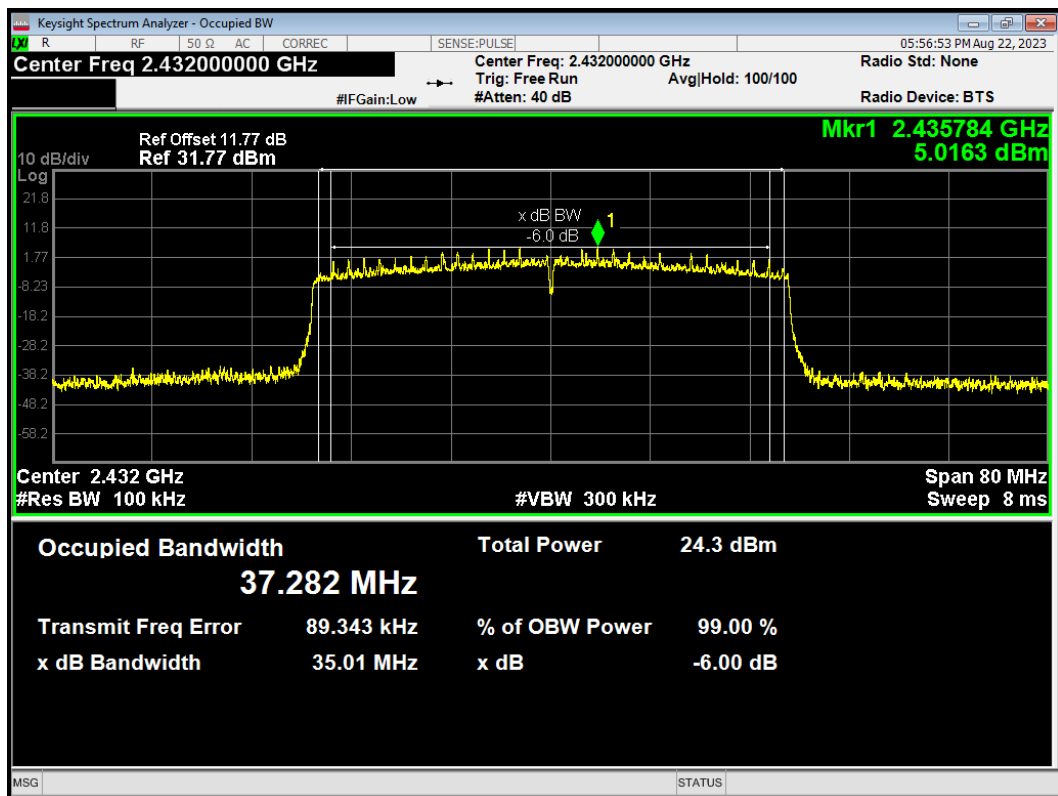
-6dB Bandwidth 802.11ax(HE40) 2422MHz



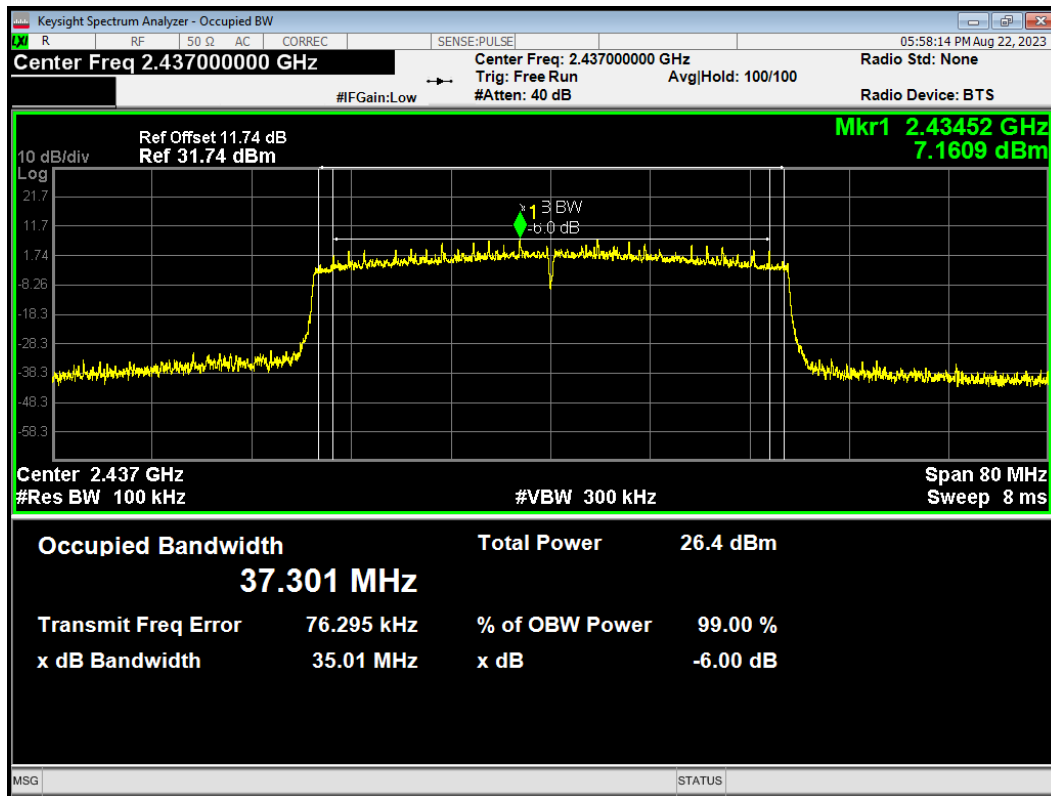
-6dB Bandwidth 802.11ax(HE40) 2427MHz



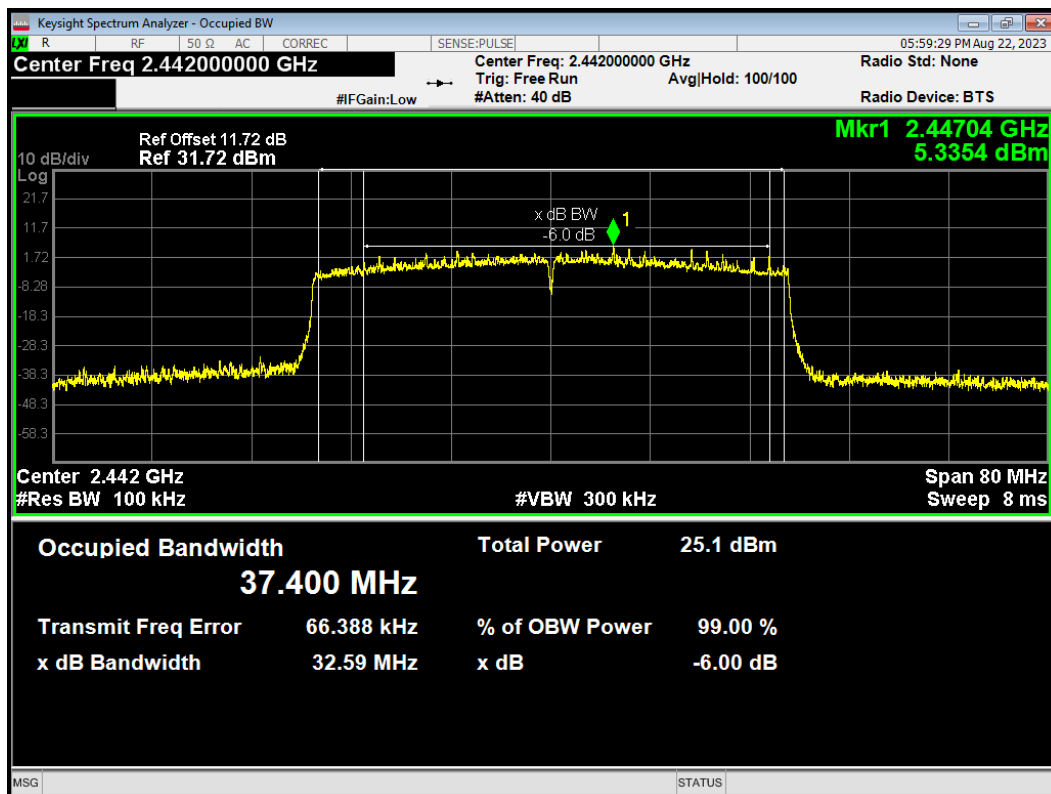
-6dB Bandwidth 802.11ax(HE40) 2432MHz



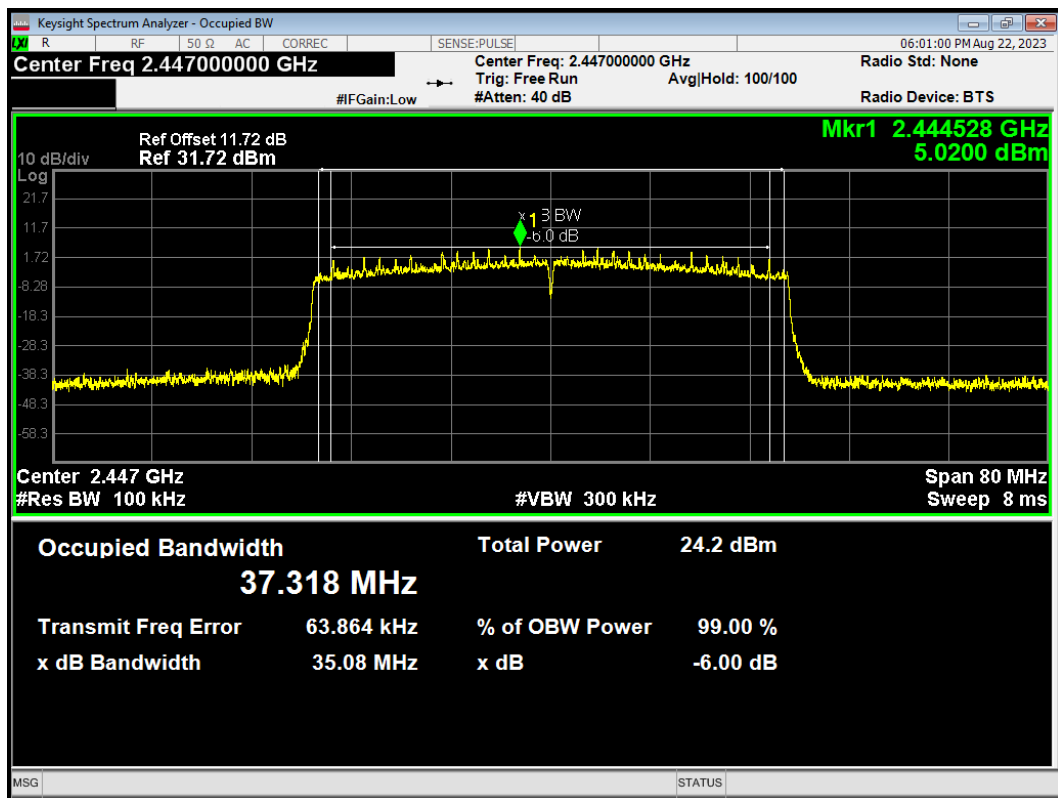
-6dB Bandwidth 802.11ax(HE40) 2437MHz



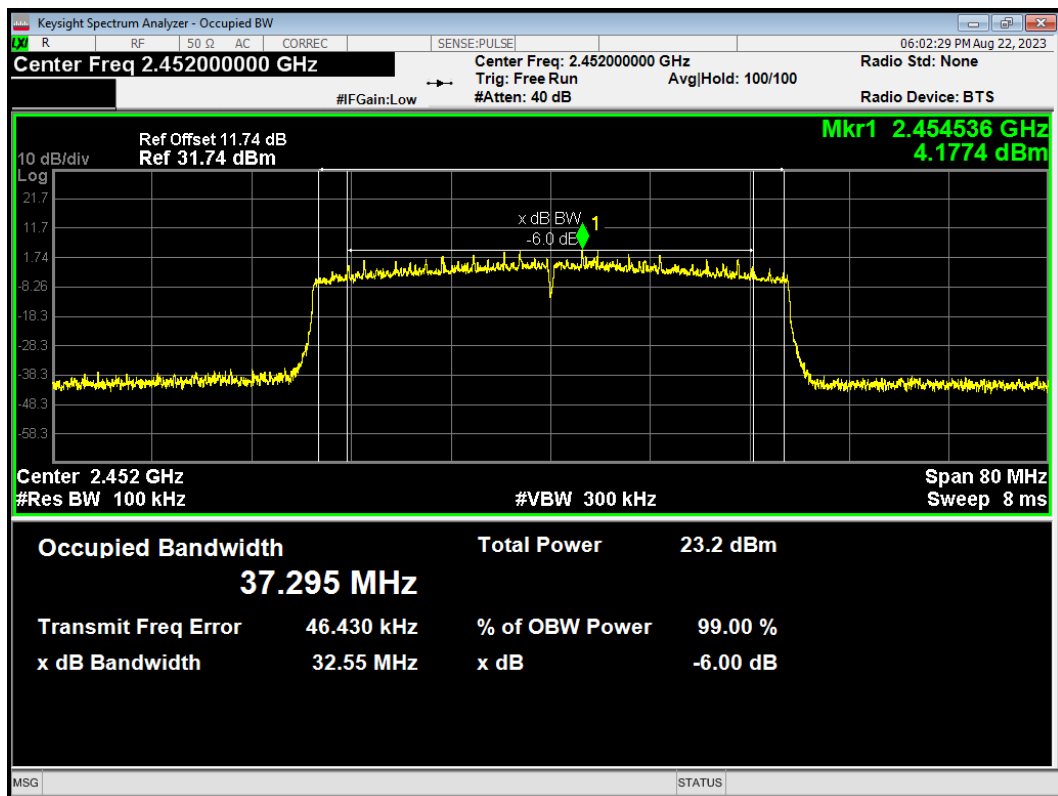
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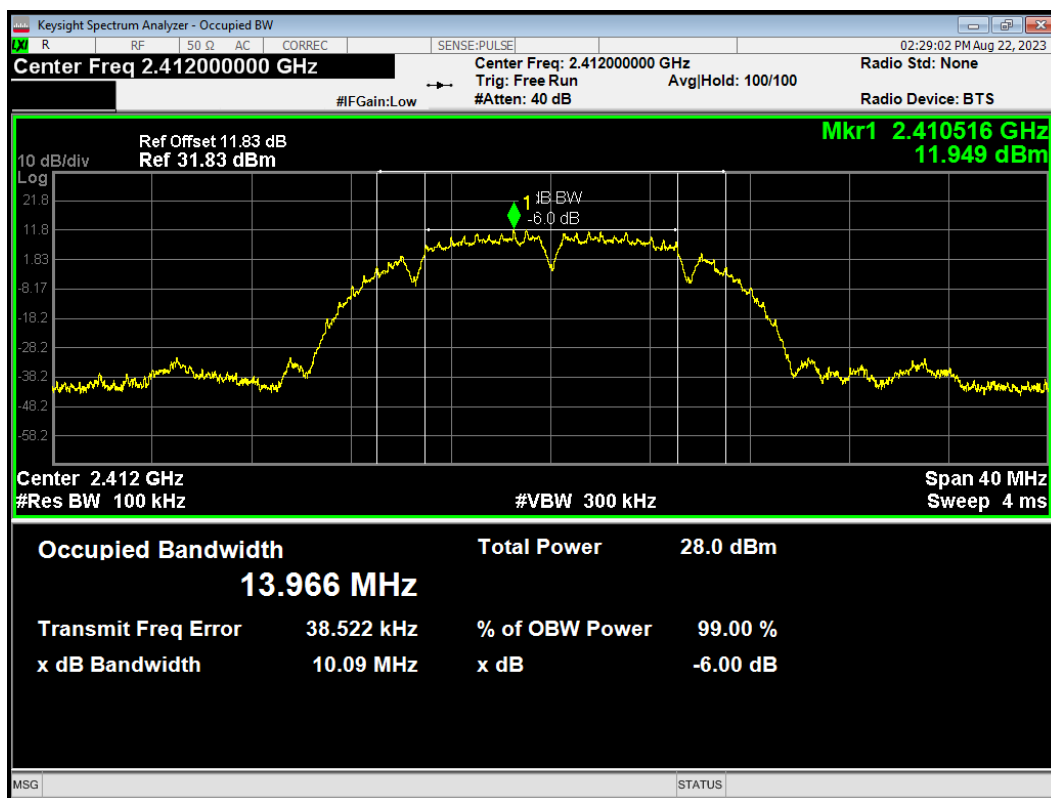
-6dB Bandwidth 802.11ax(HE40) 2447MHz



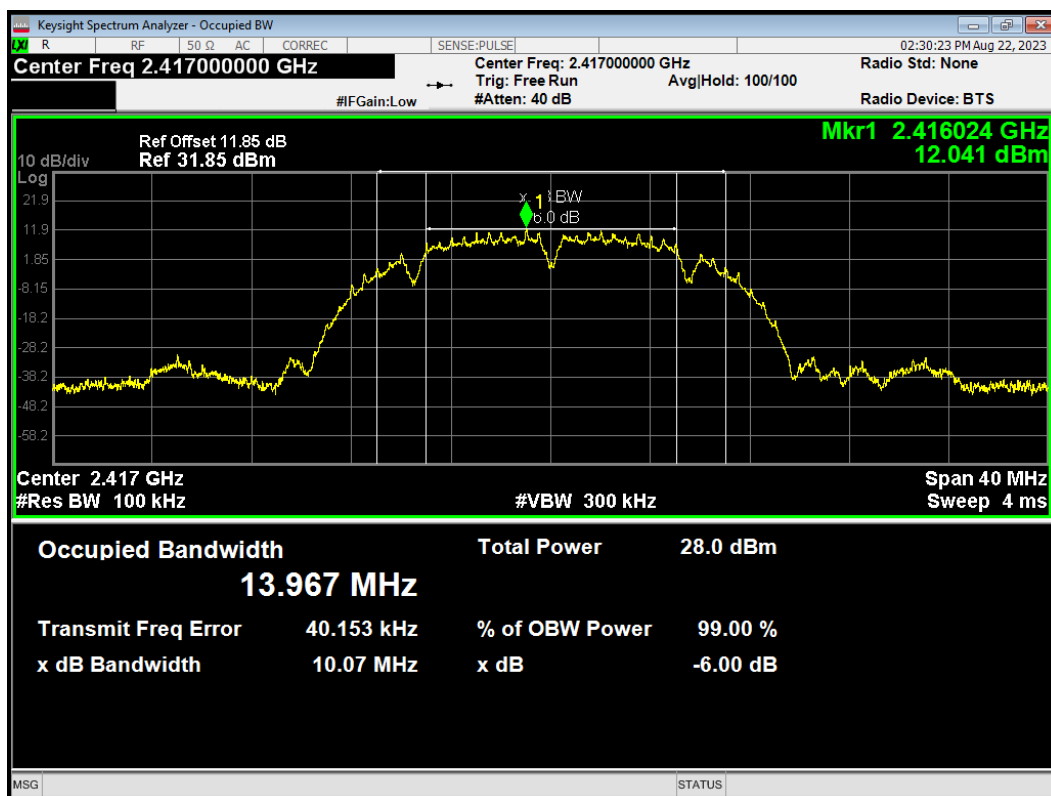
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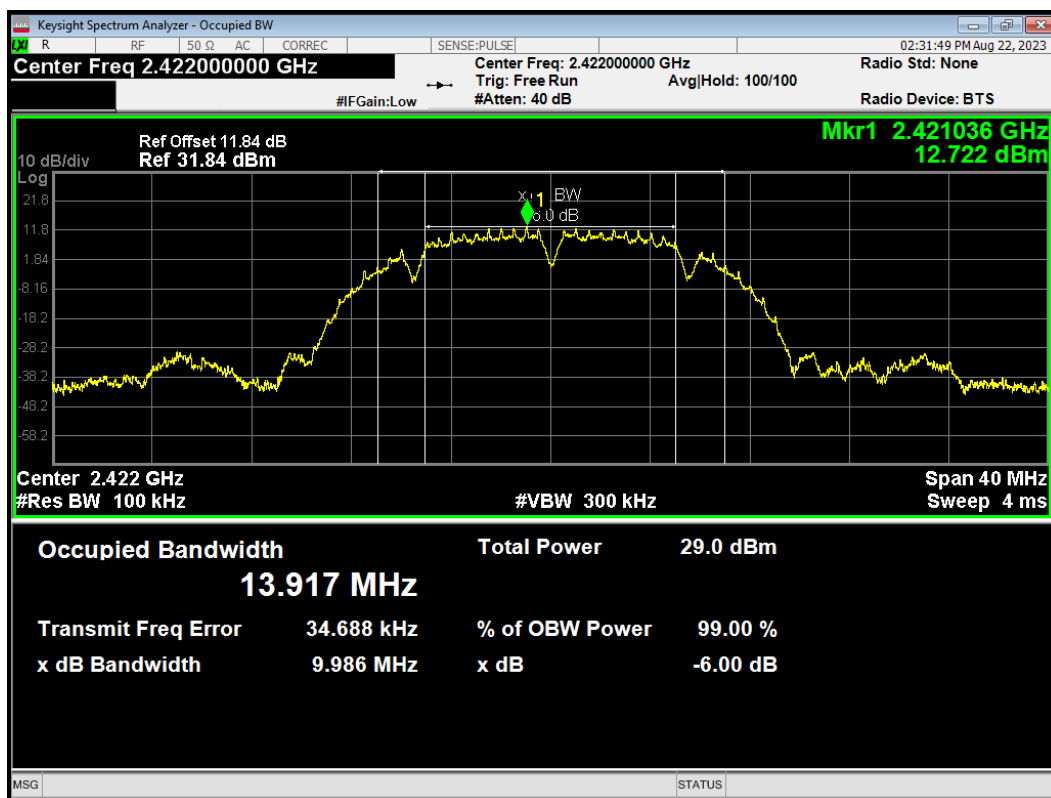
-6dB Bandwidth 802.11b 2412MHz



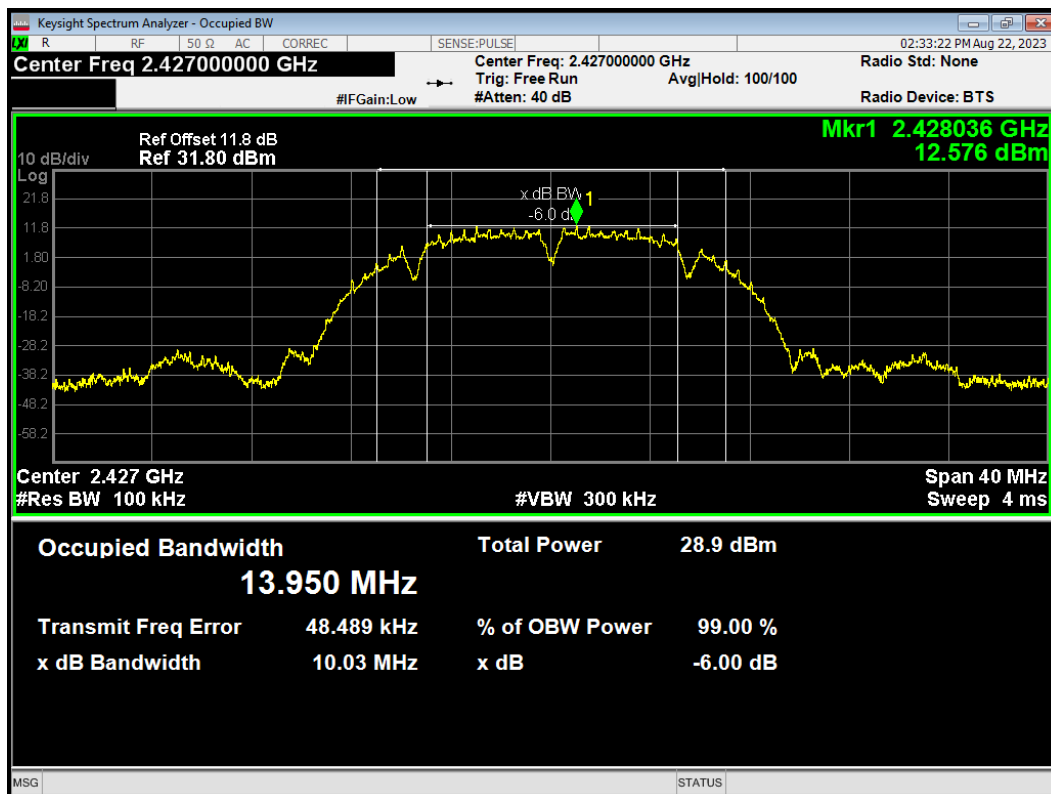
-6dB Bandwidth 802.11b 2417MHz



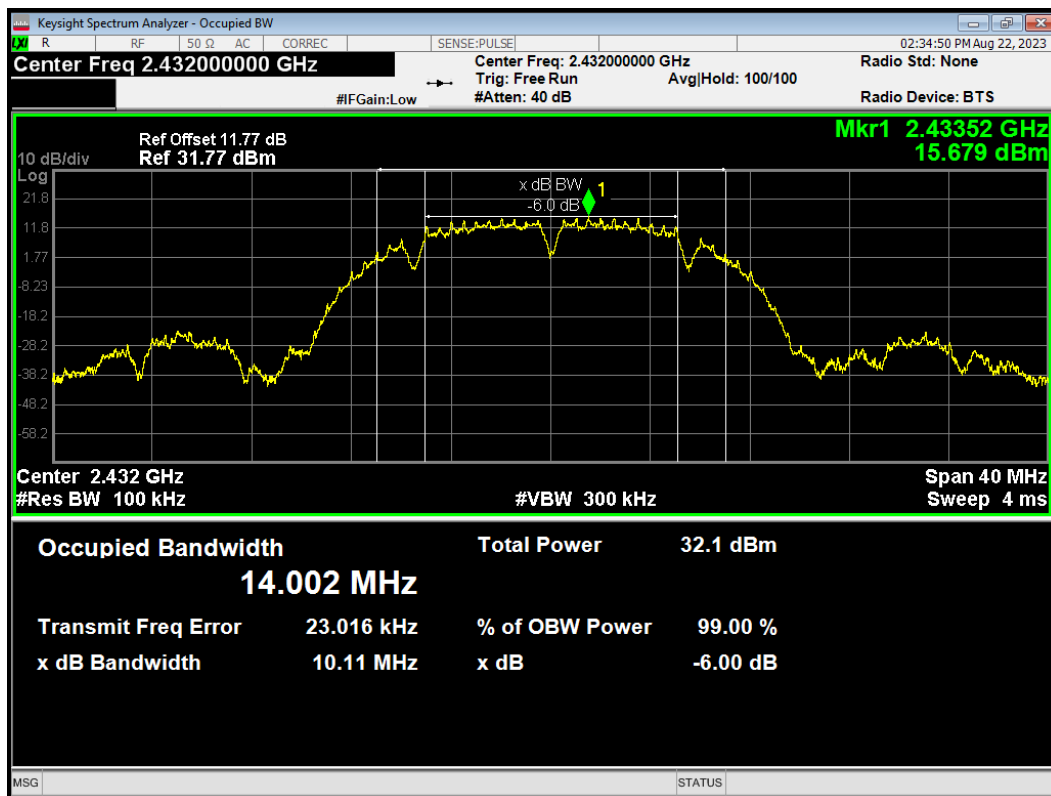
-6dB Bandwidth 802.11b 2422MHz



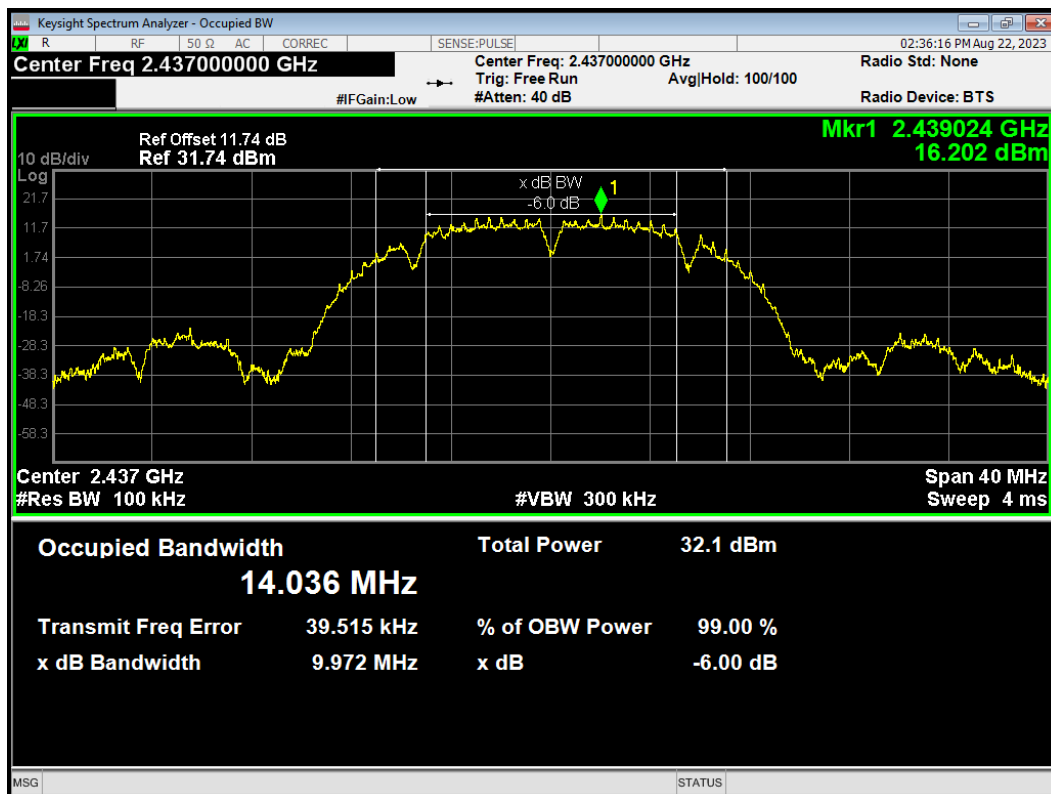
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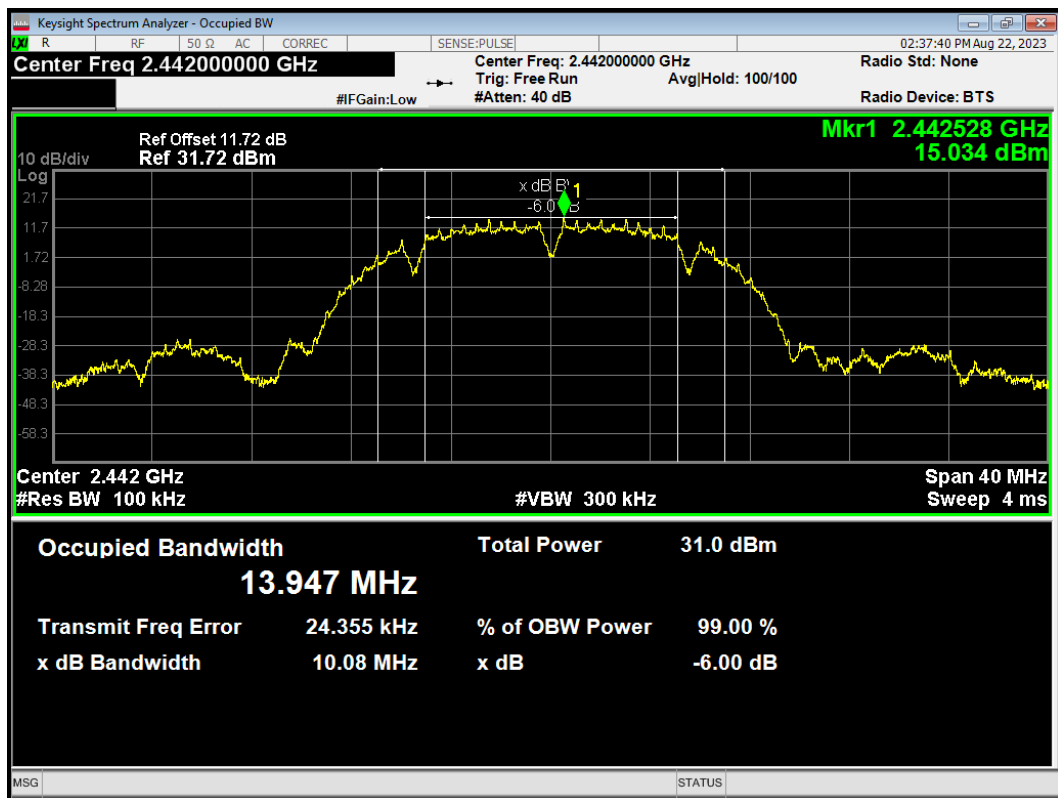
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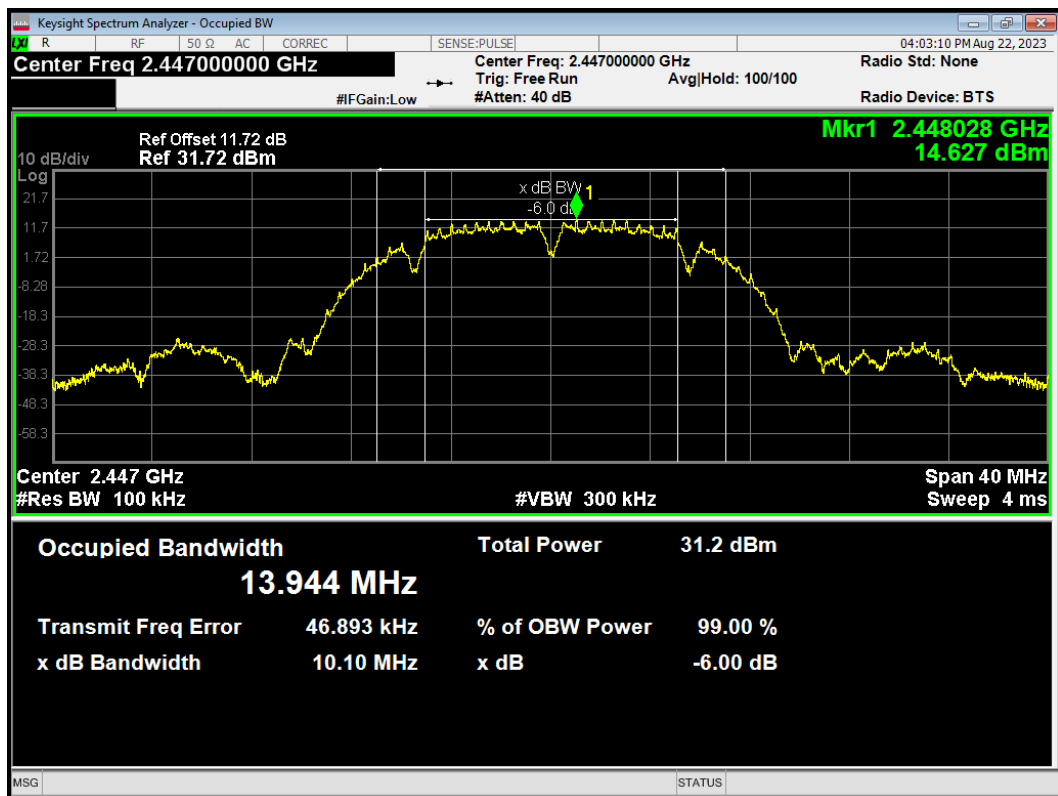
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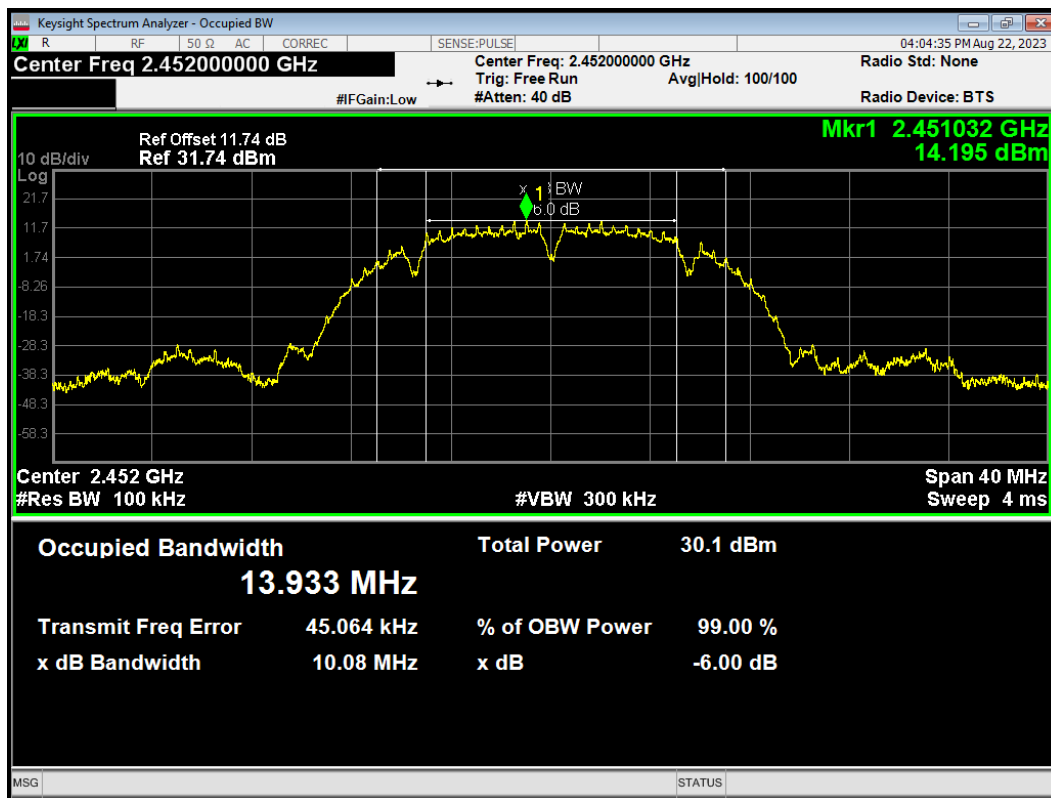
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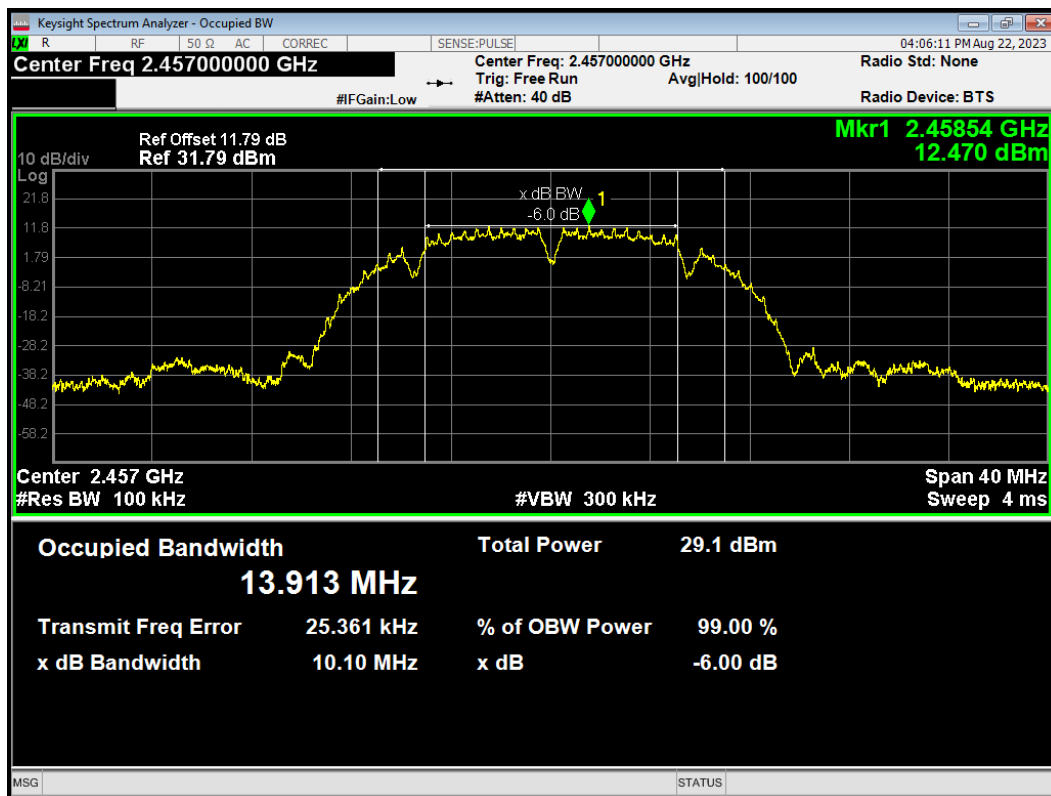
-6dB Bandwidth 802.11b 2447MHz



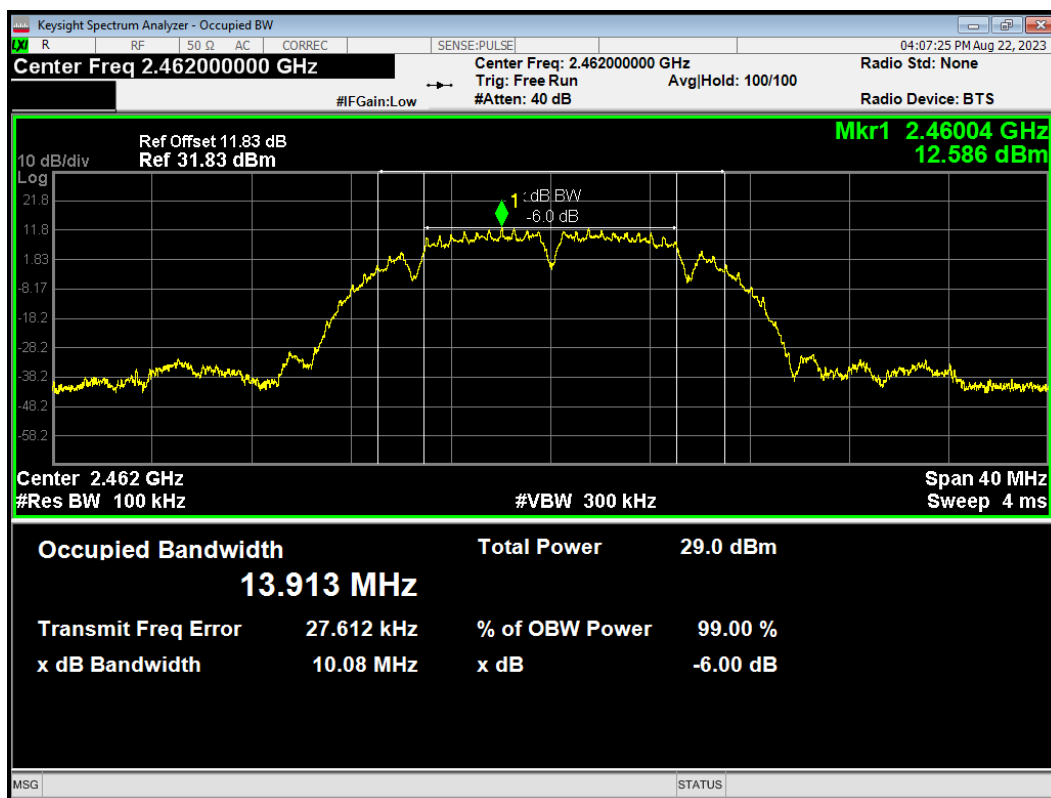
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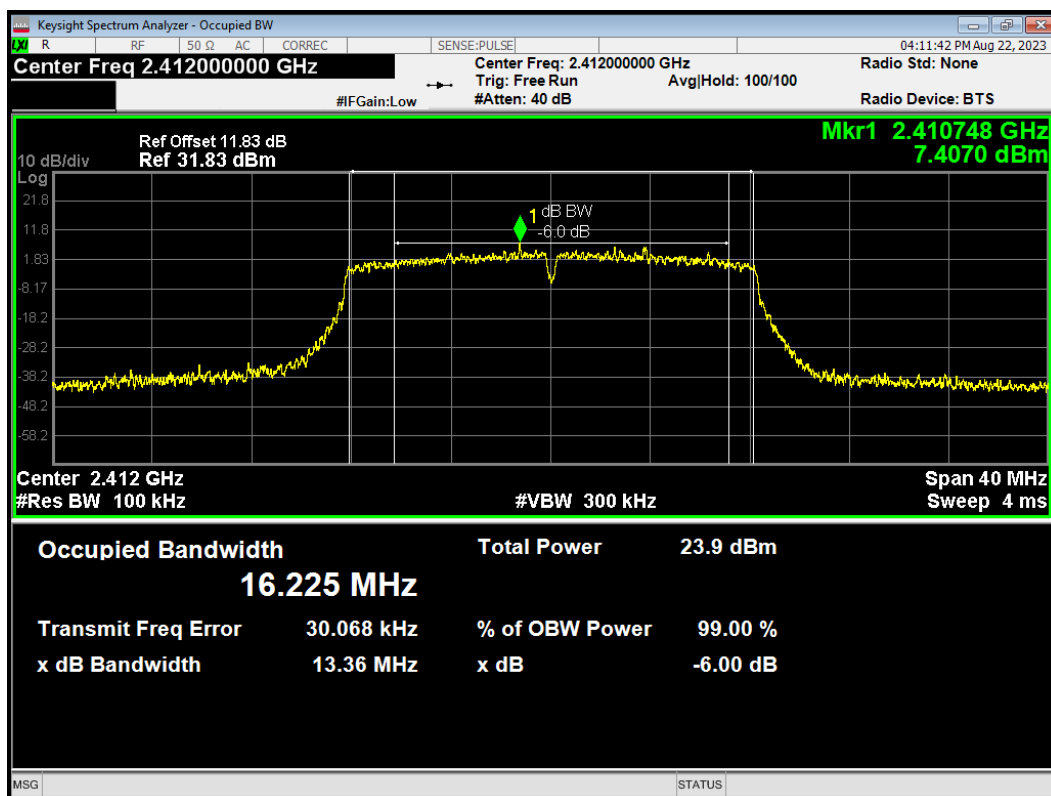
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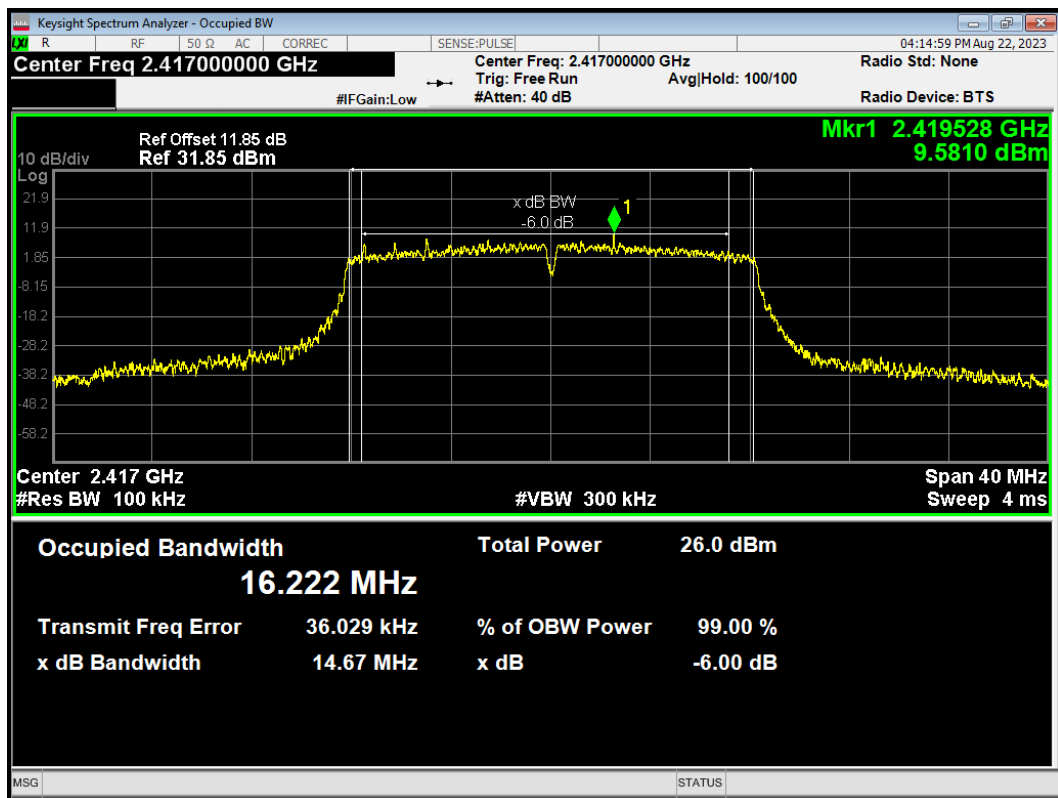
-6dB Bandwidth 802.11b 2462MHz



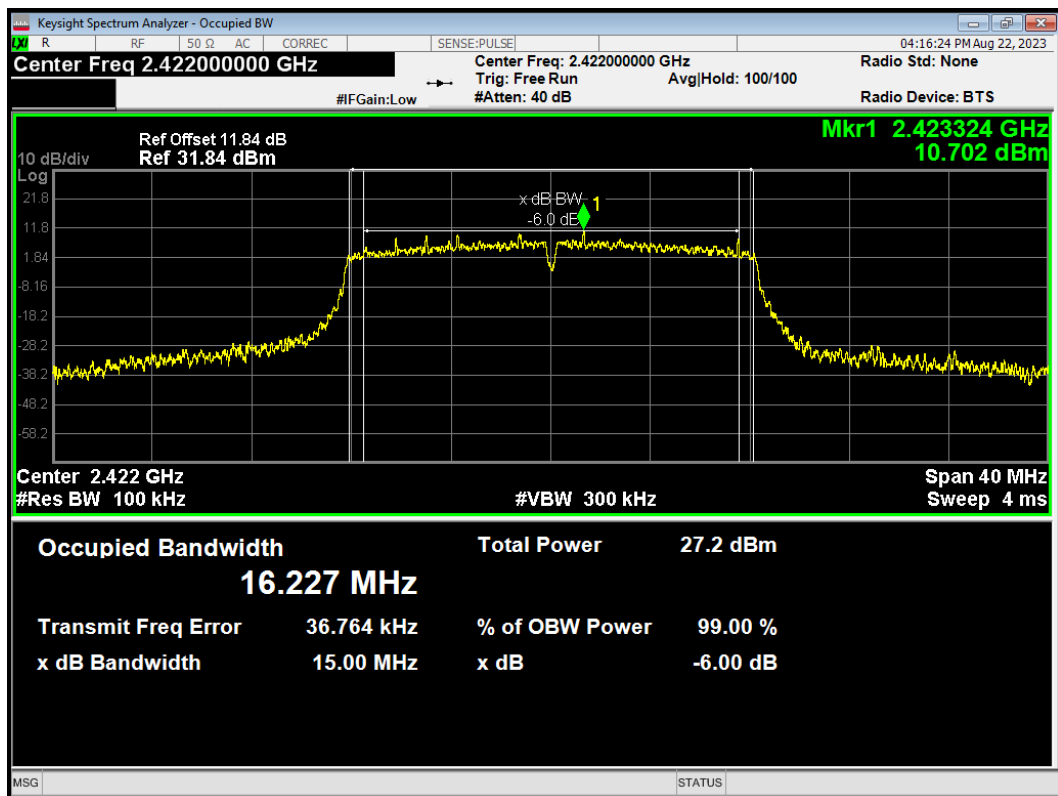
-6dB Bandwidth 802.11g 2412MHz



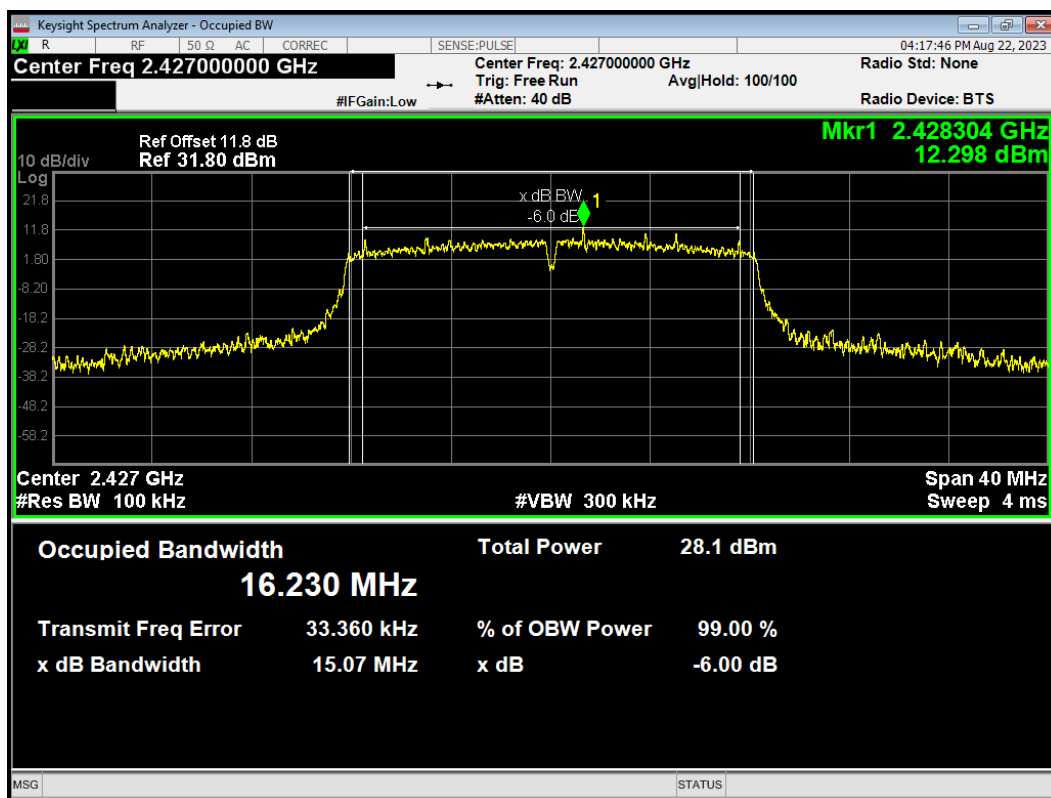
-6dB Bandwidth 802.11g 2417MHz



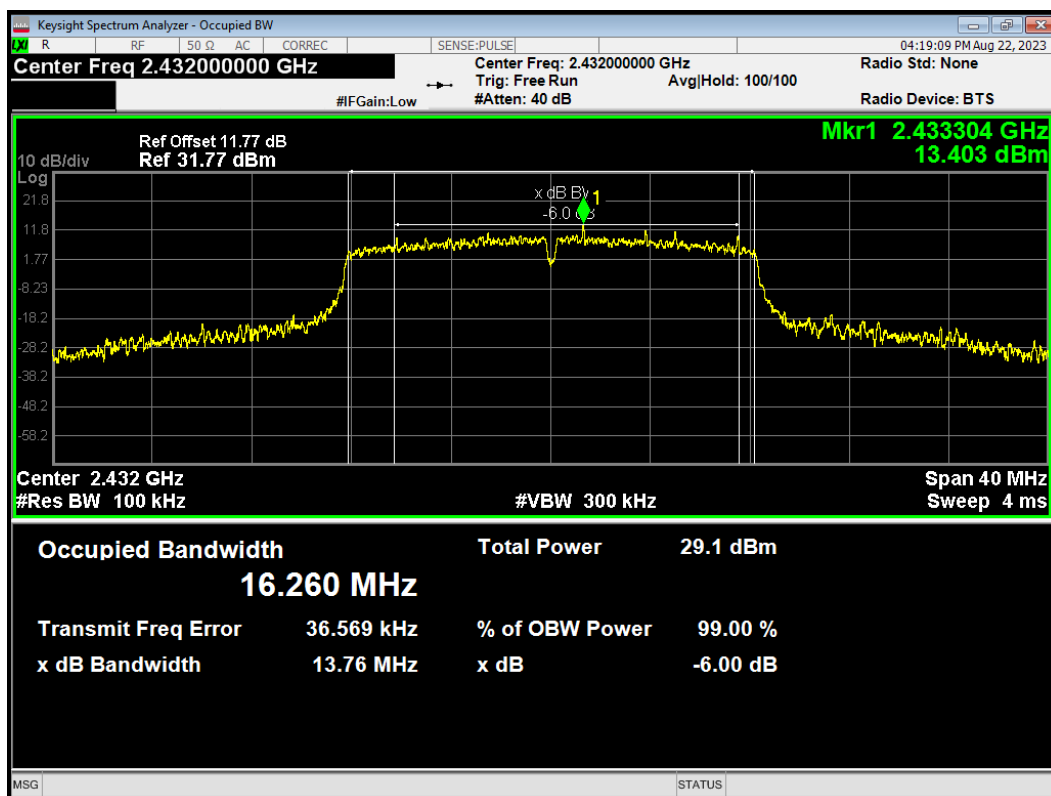
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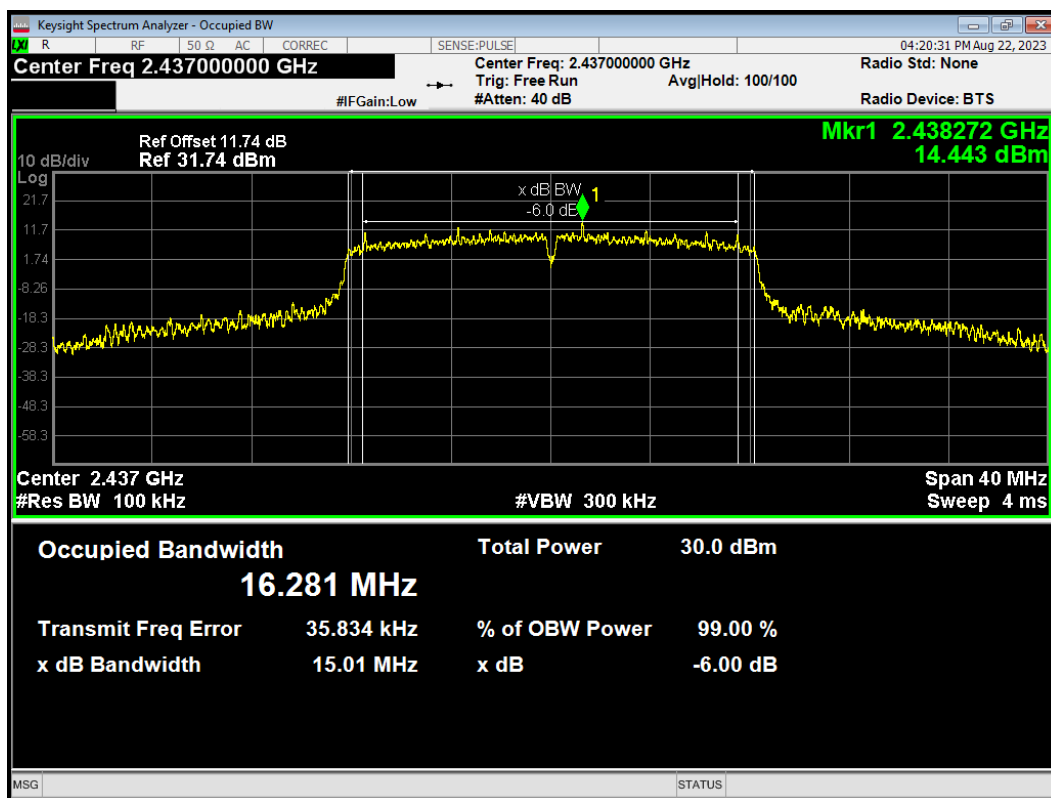
-6dB Bandwidth 802.11g 2427MHz



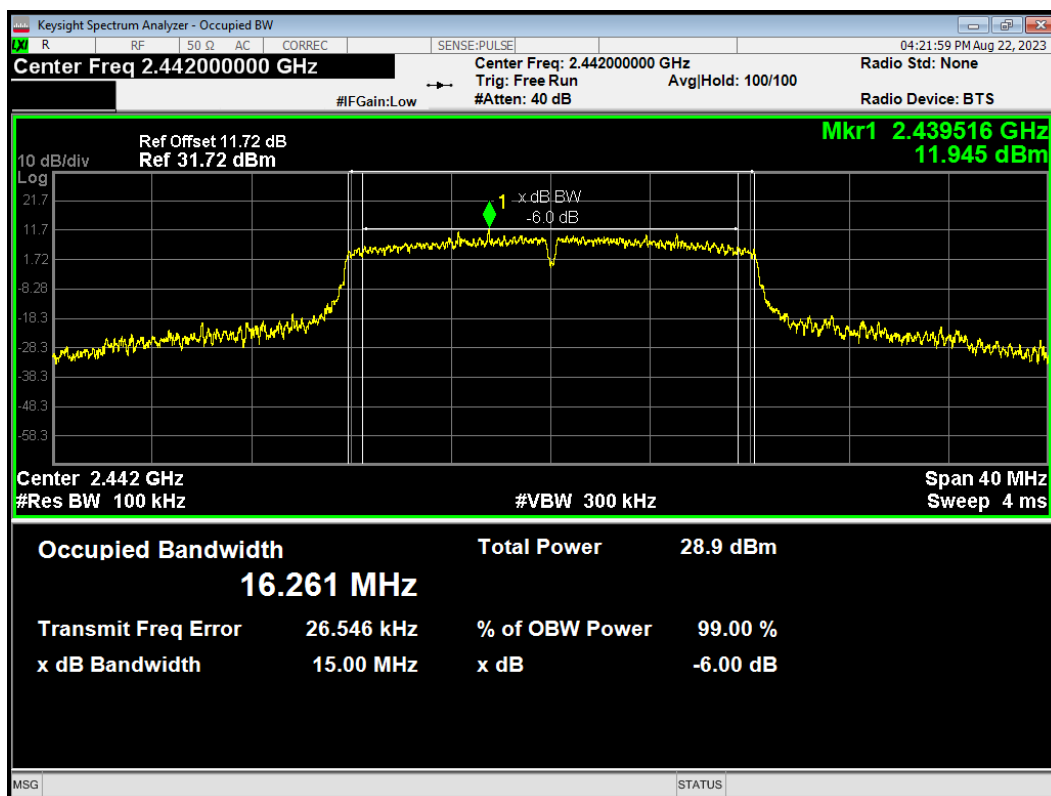
-6dB Bandwidth 802.11g 2432MHz



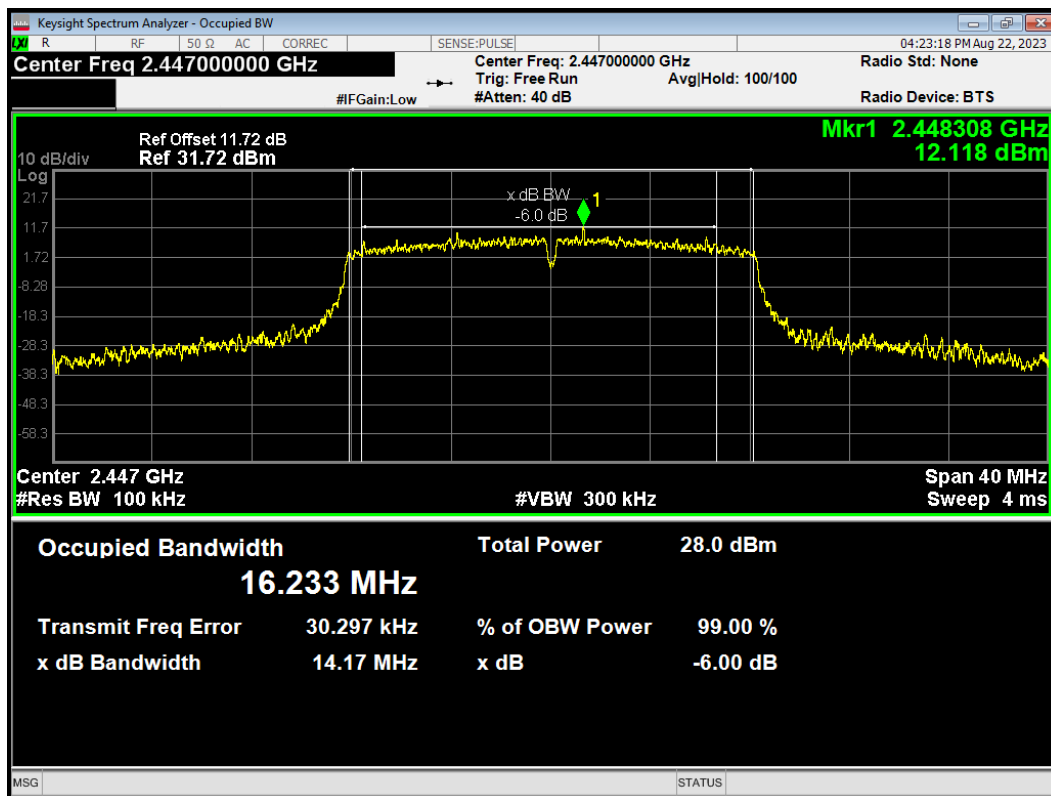
-6dB Bandwidth 802.11g 2437MHz



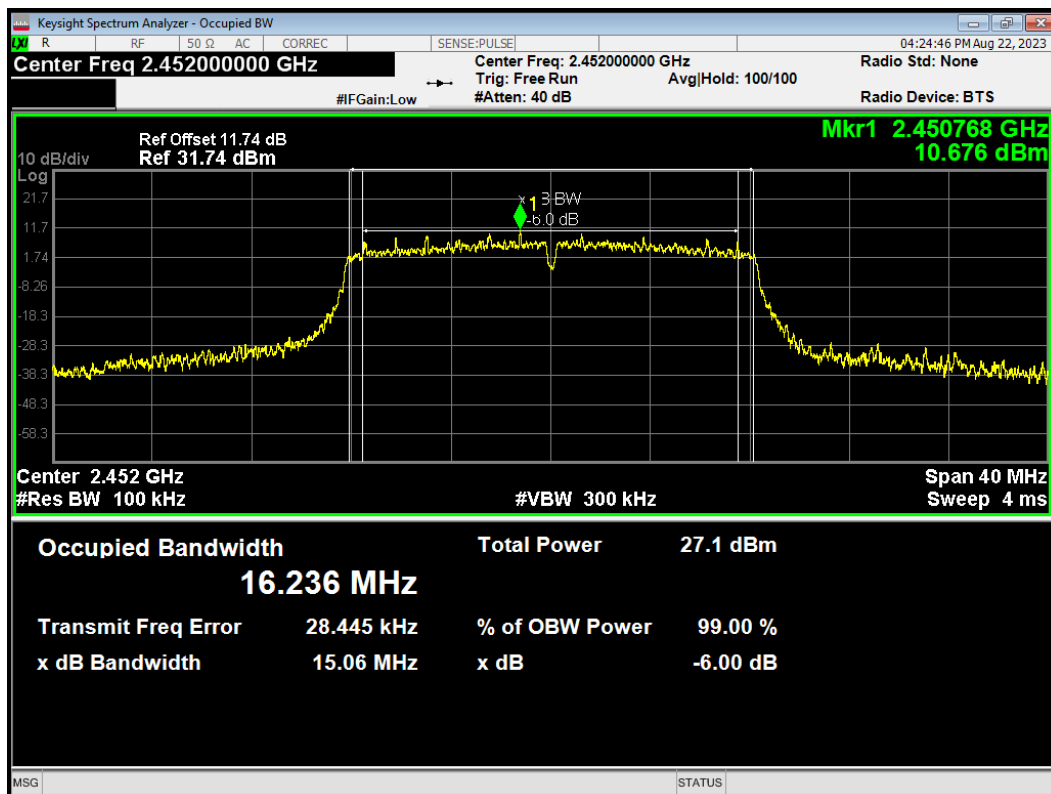
-6dB Bandwidth 802.11g 2442MHz



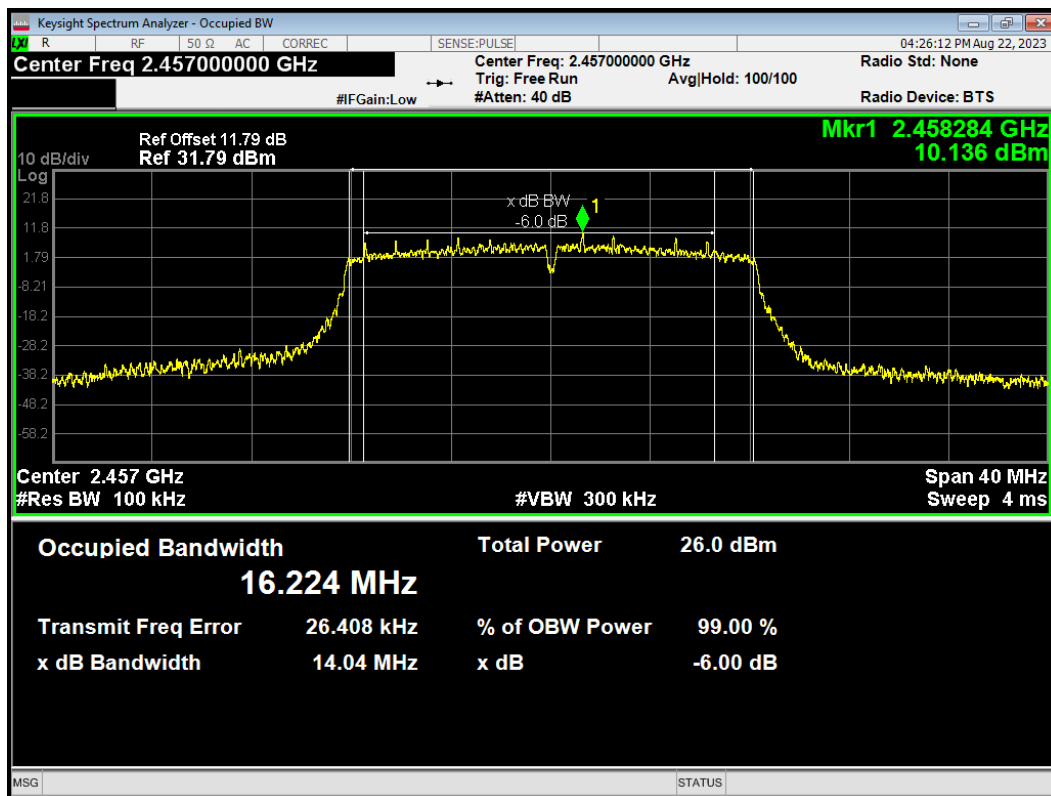
-6dB Bandwidth 802.11g 2447MHz



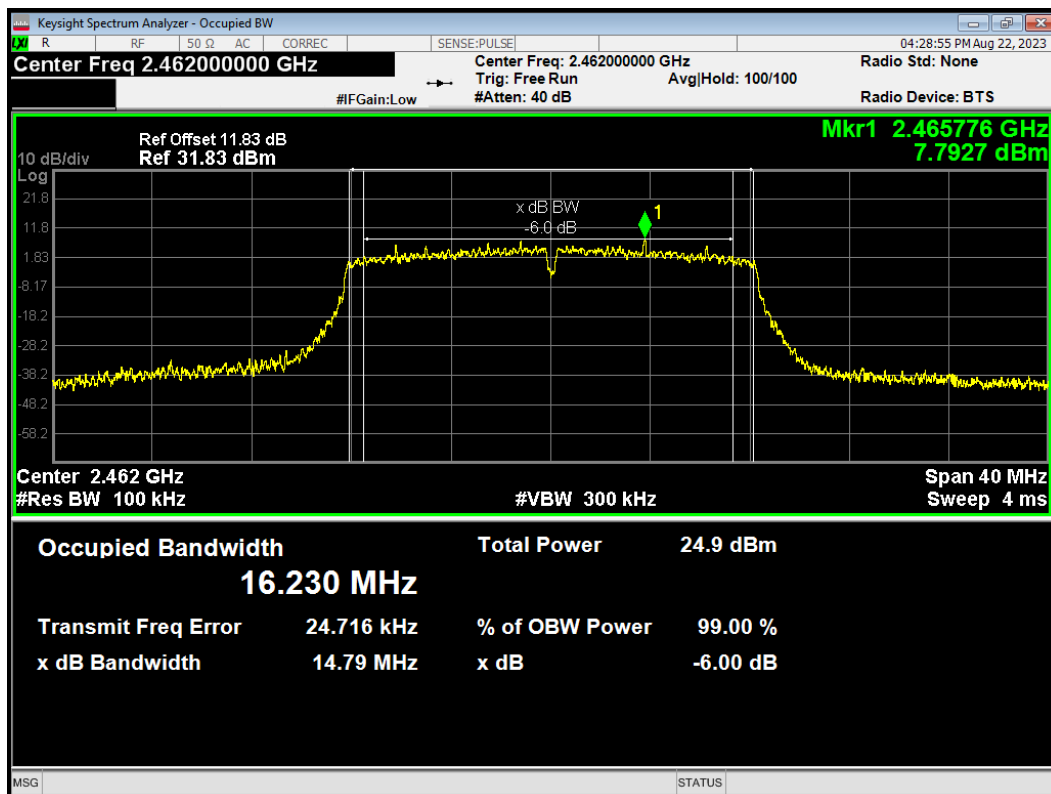
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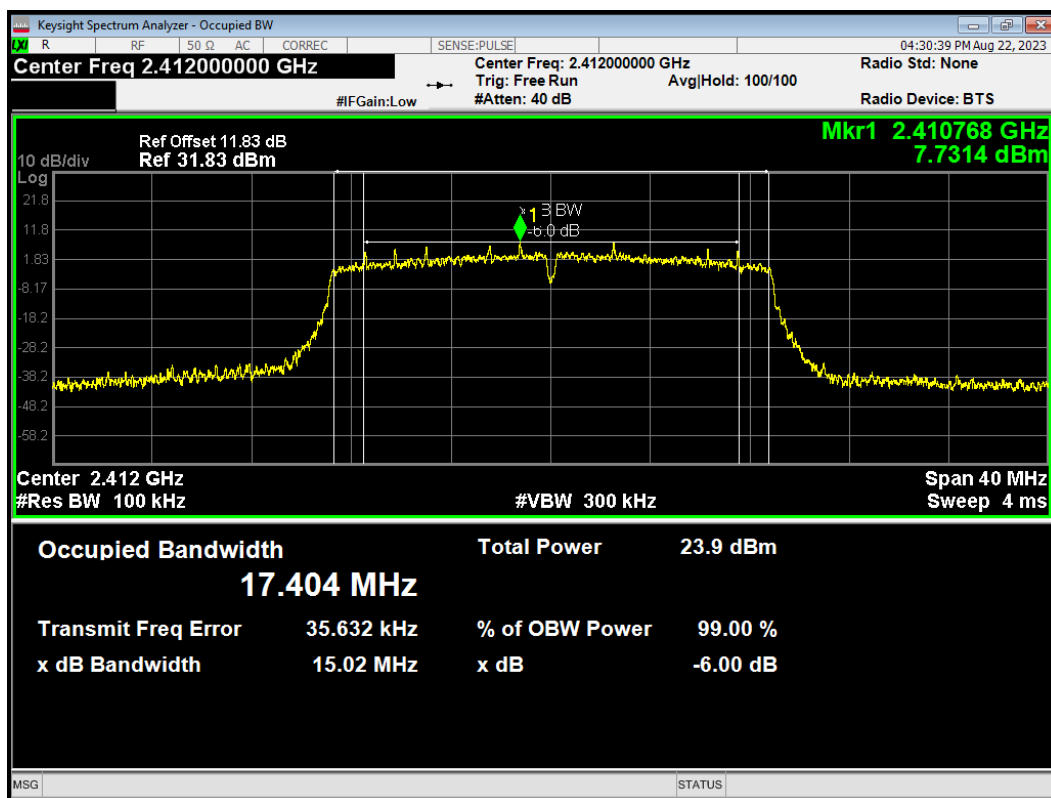
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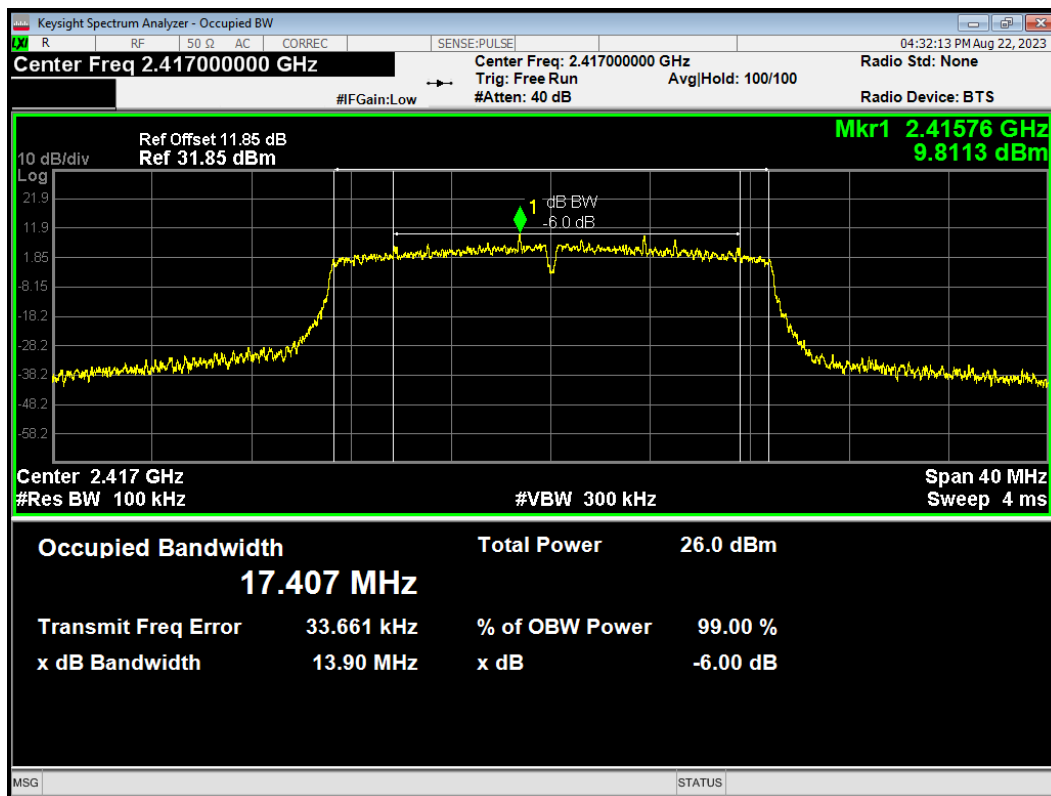
-6dB Bandwidth 802.11g 2462MHz



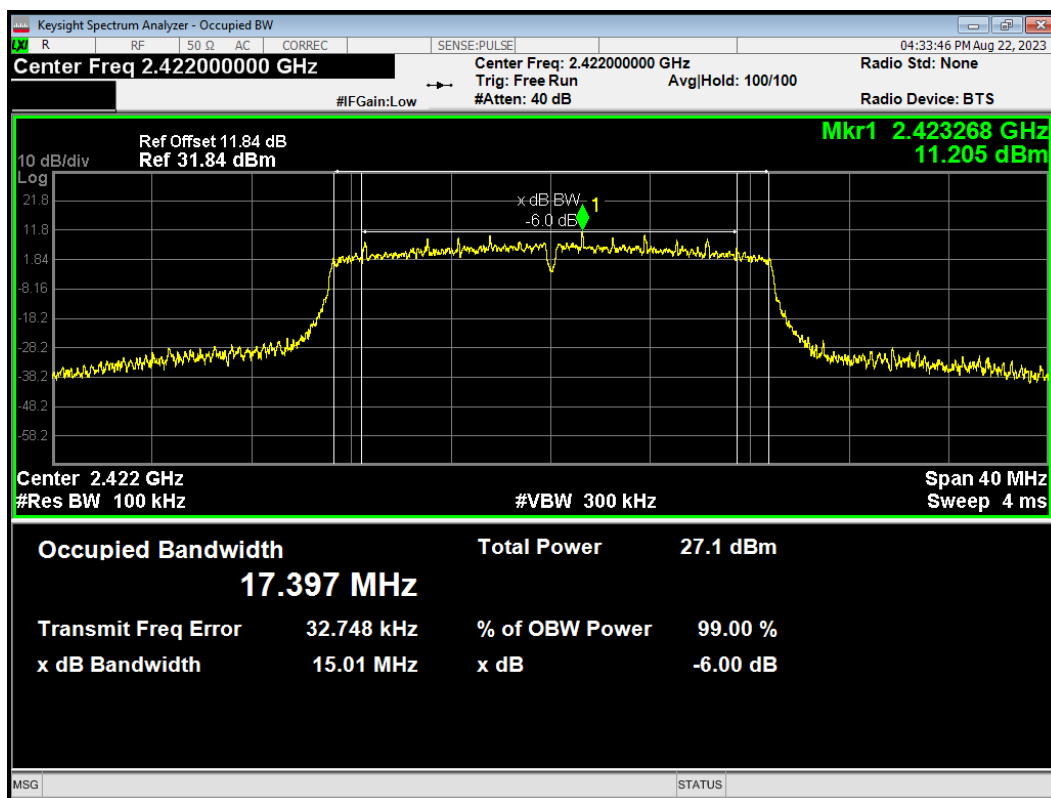
-6dB Bandwidth 802.11n(HT20) 2412MHz



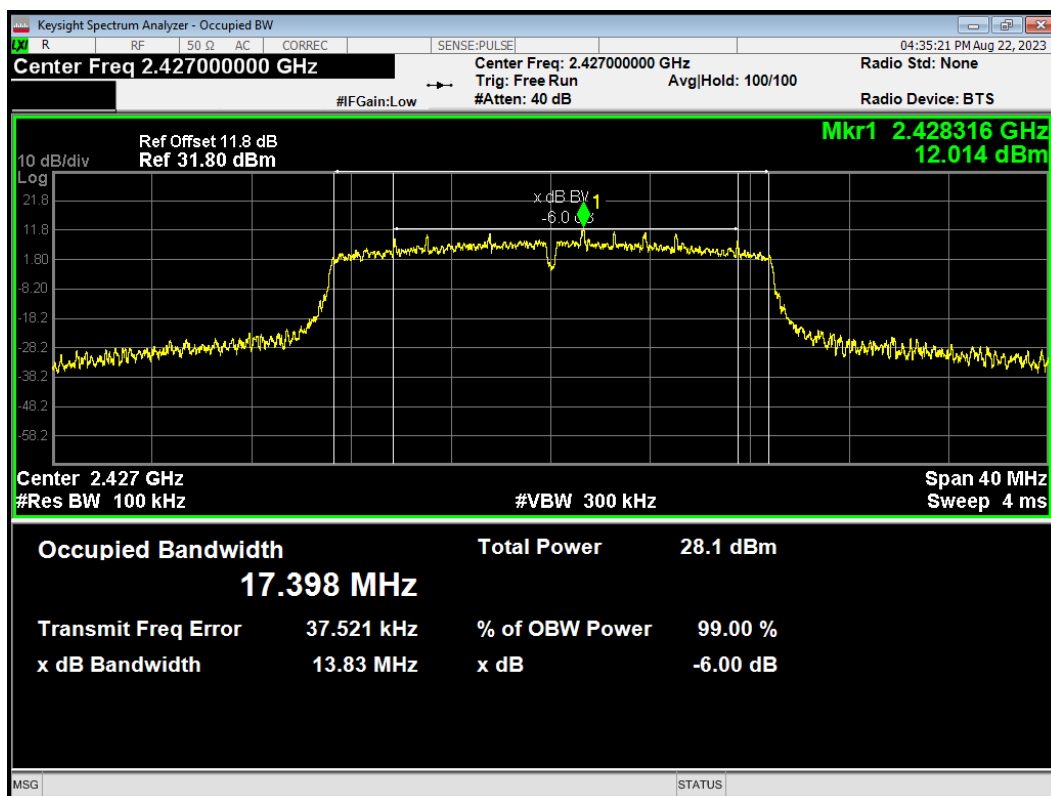
-6dB Bandwidth 802.11n(HT20) 2417MHz



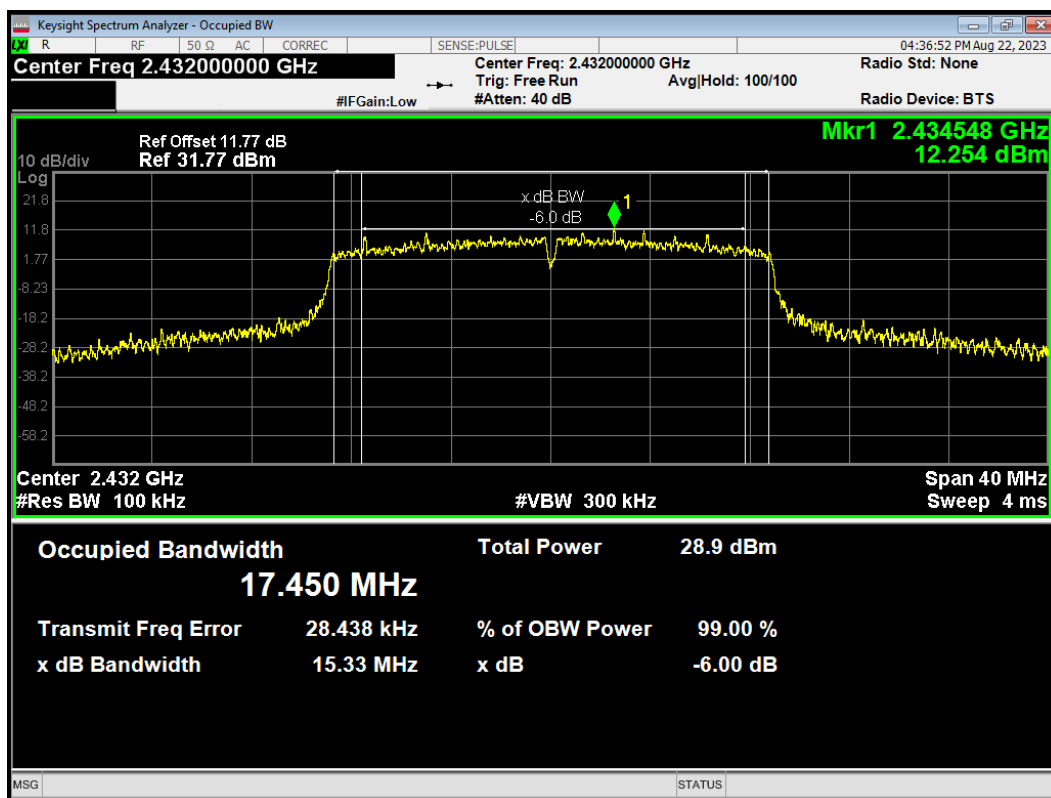
-6dB Bandwidth 802.11n(HT20) 2422MHz



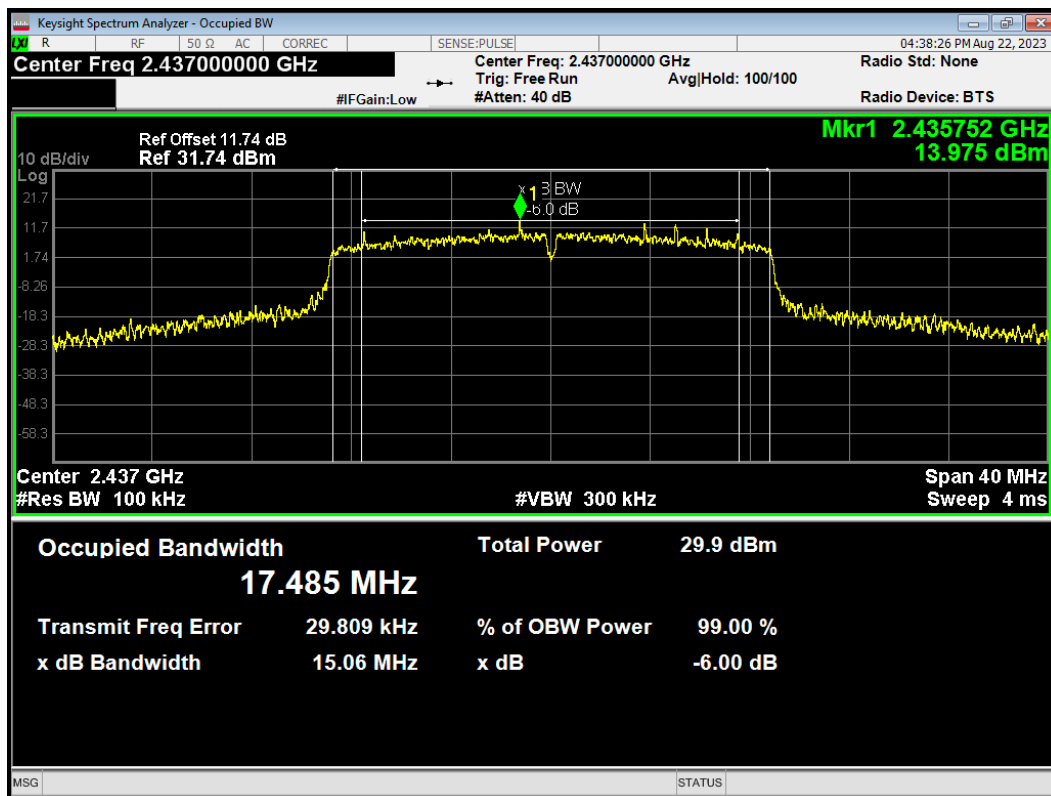
-6dB Bandwidth 802.11n(HT20) 2427MHz



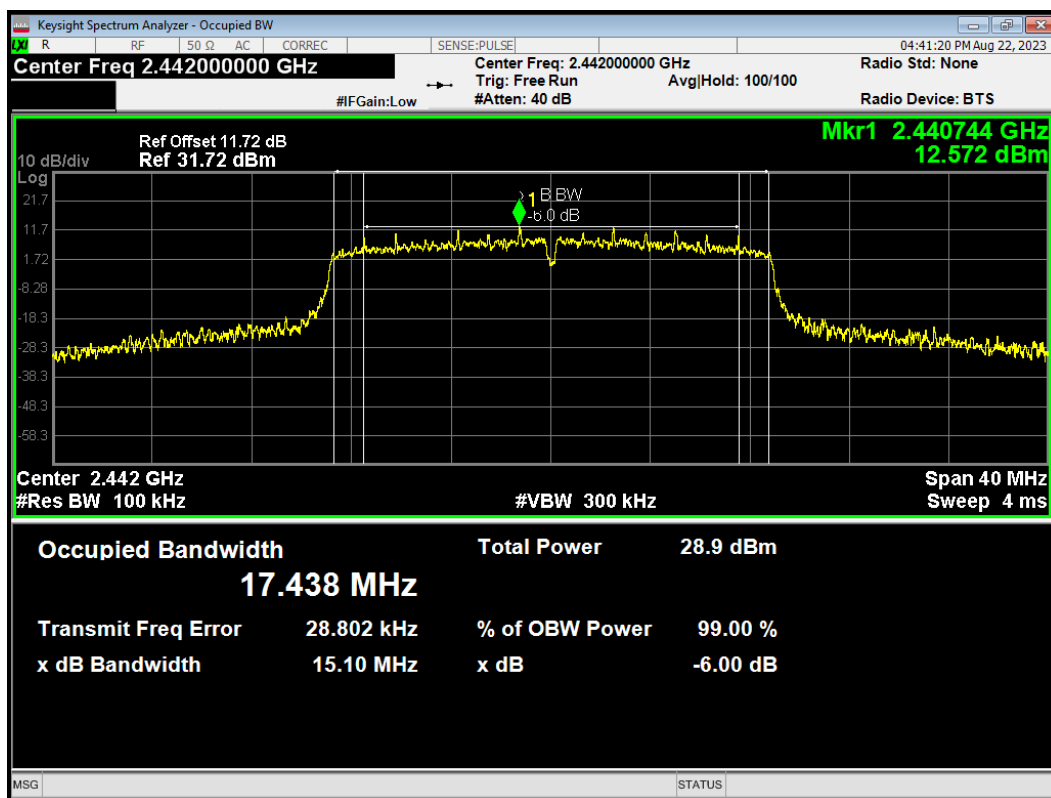
-6dB Bandwidth 802.11n(HT20) 2432MHz



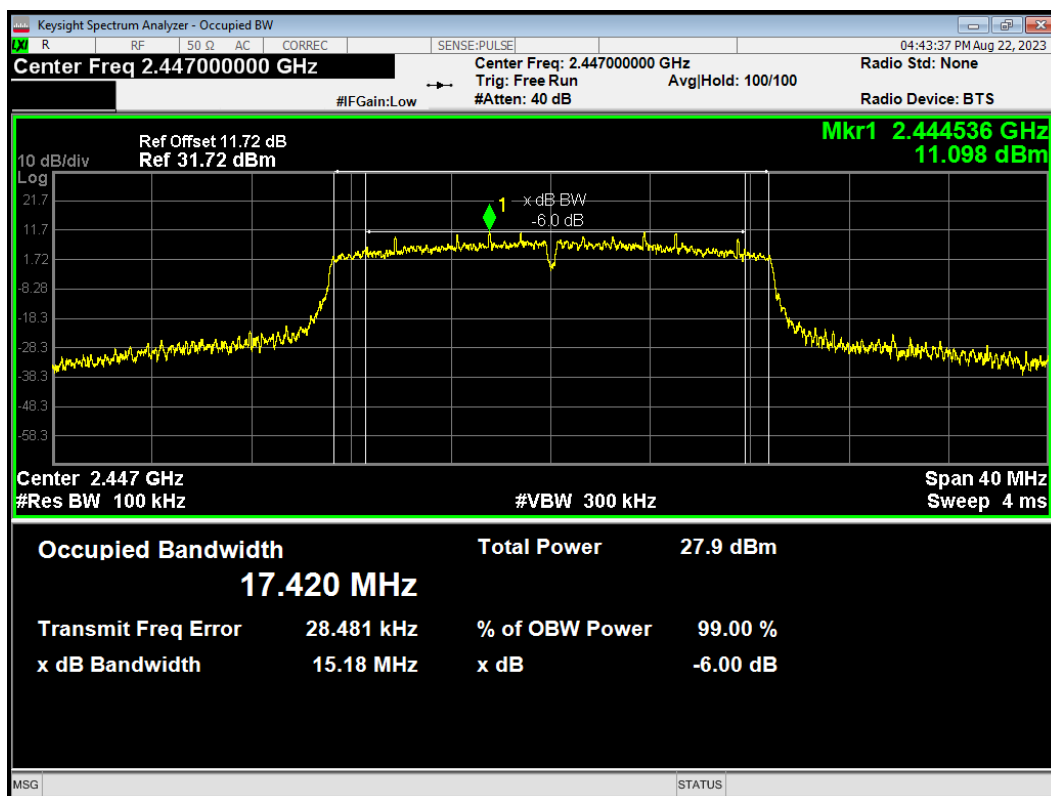
-6dB Bandwidth 802.11n(HT20) 2437MHz



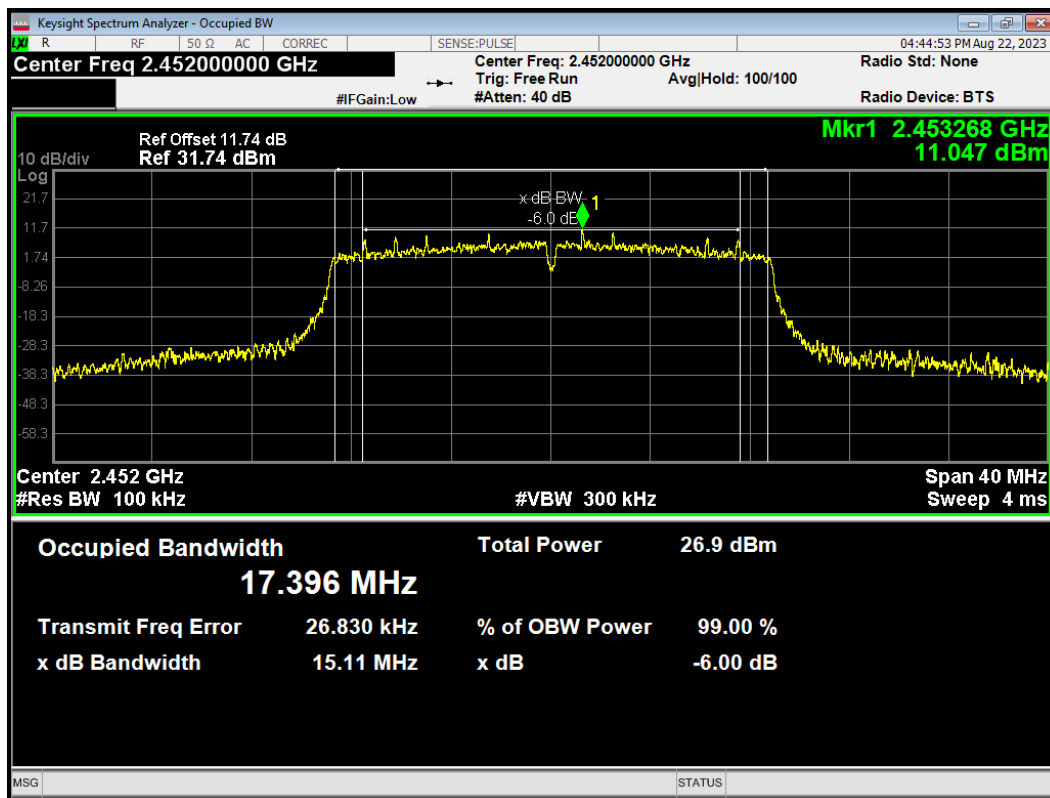
-6dB Bandwidth 802.11n(HT20) 2442MHz



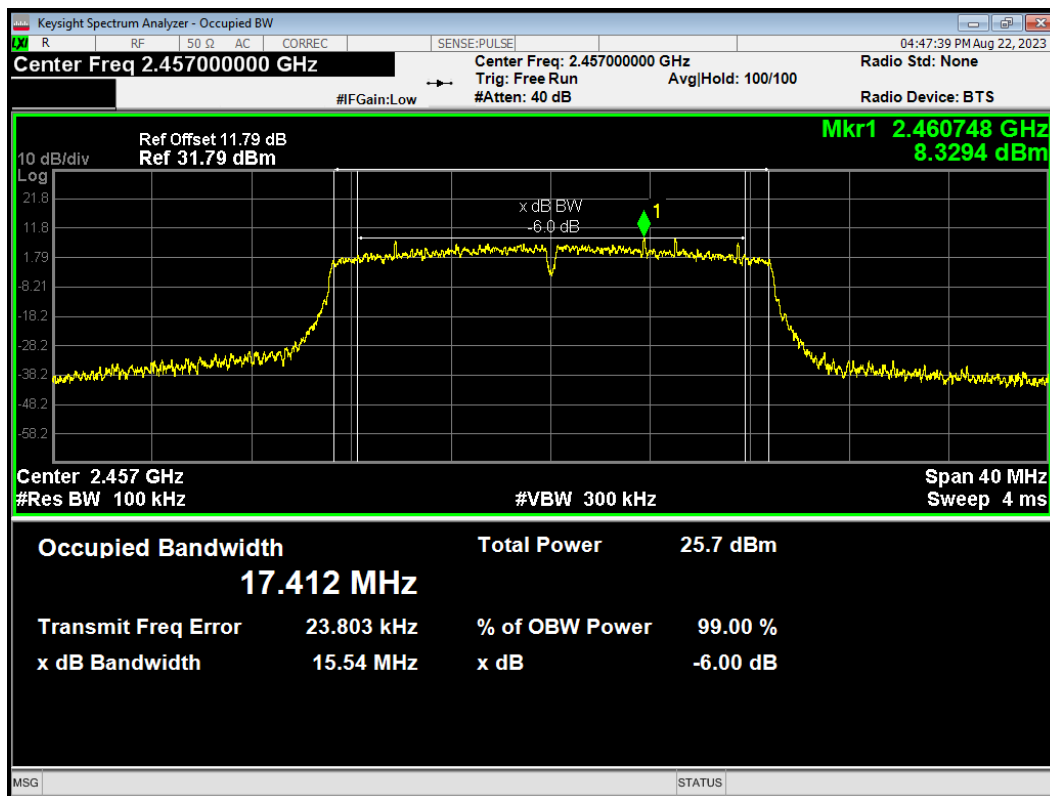
-6dB Bandwidth 802.11n(HT20) 2447MHz



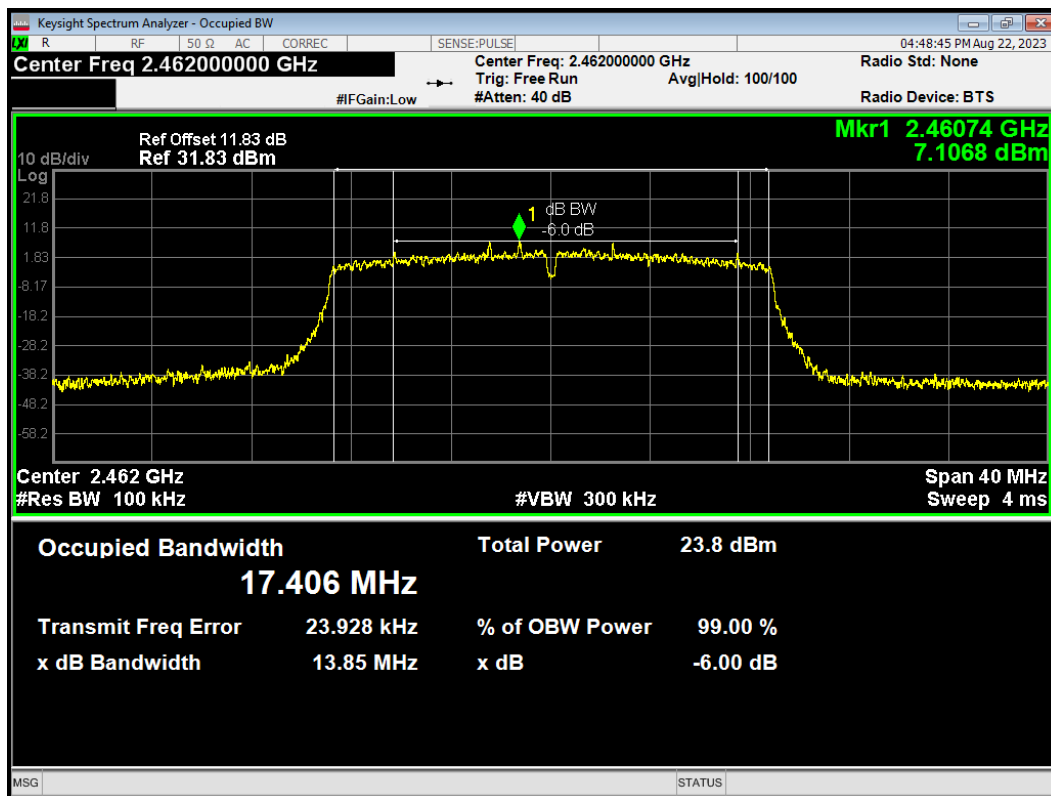
-6dB Bandwidth 802.11n(HT20) 2452MHz



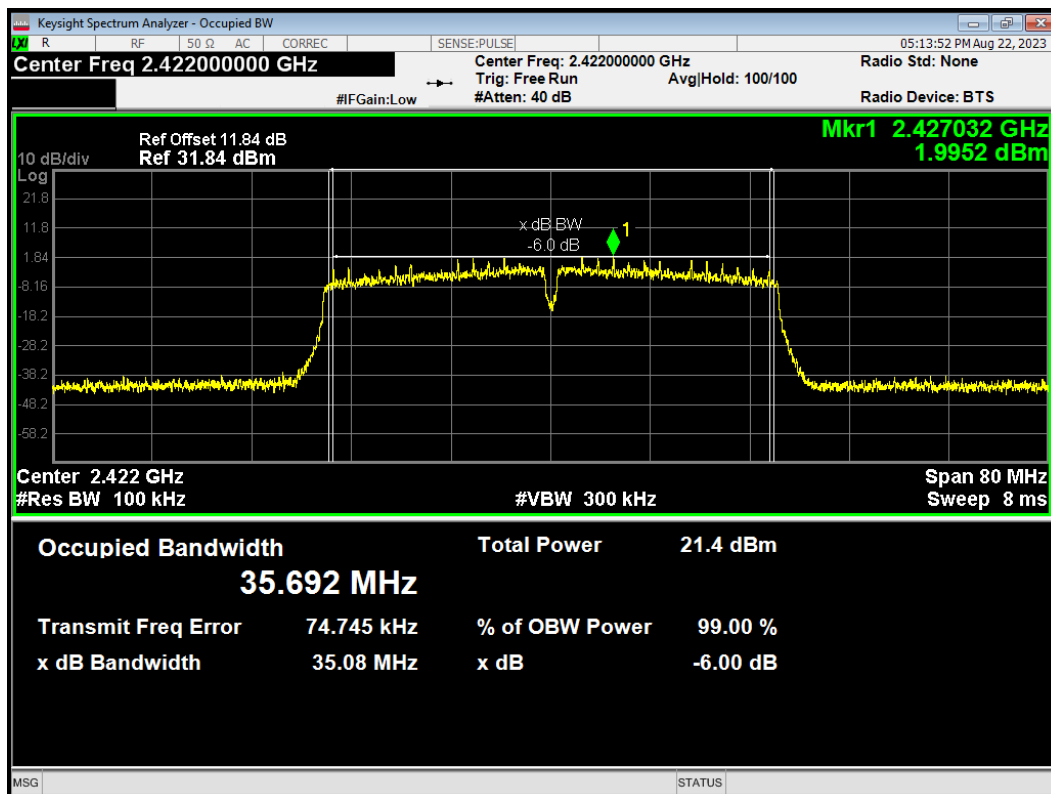
-6dB Bandwidth 802.11n(HT20) 2457MHz



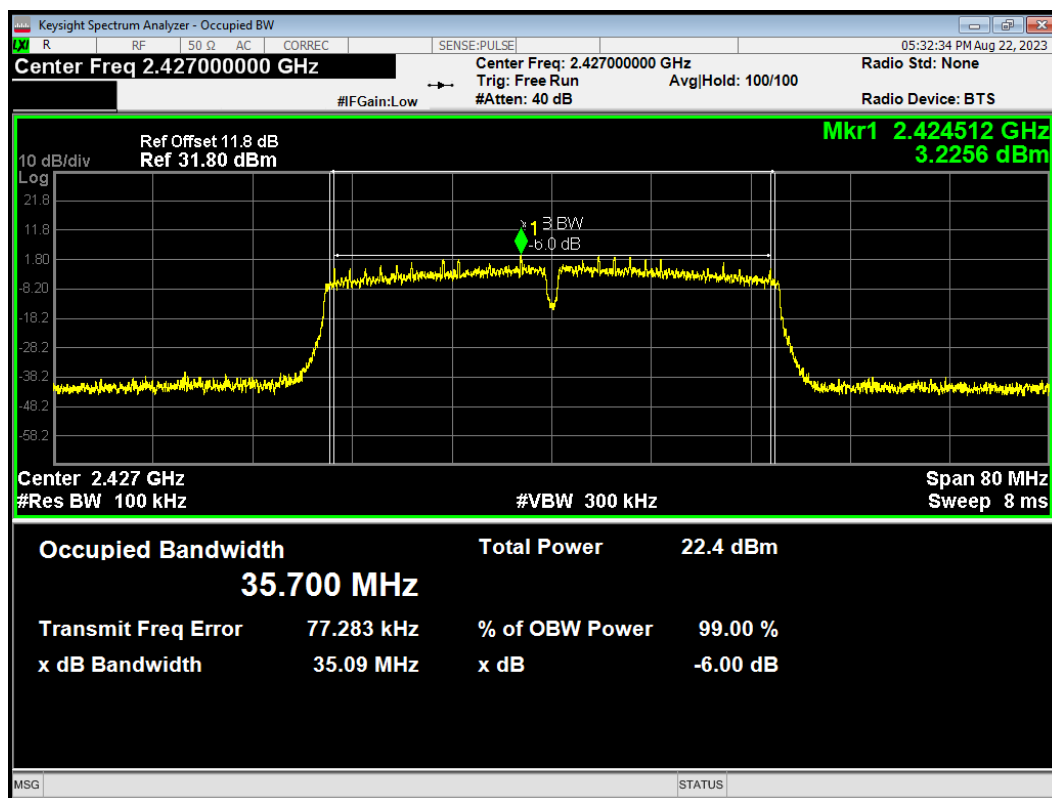
-6dB Bandwidth 802.11n(HT20) 2462MHz



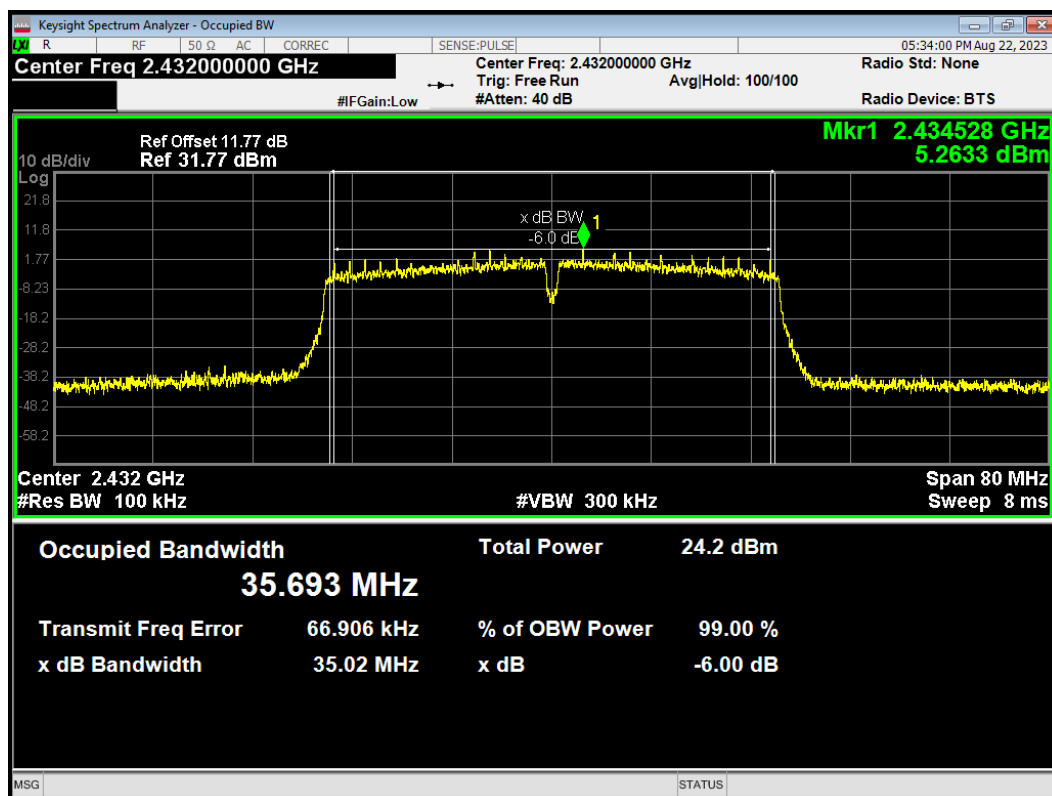
-6dB Bandwidth 802.11n(HT40) 2422MHz



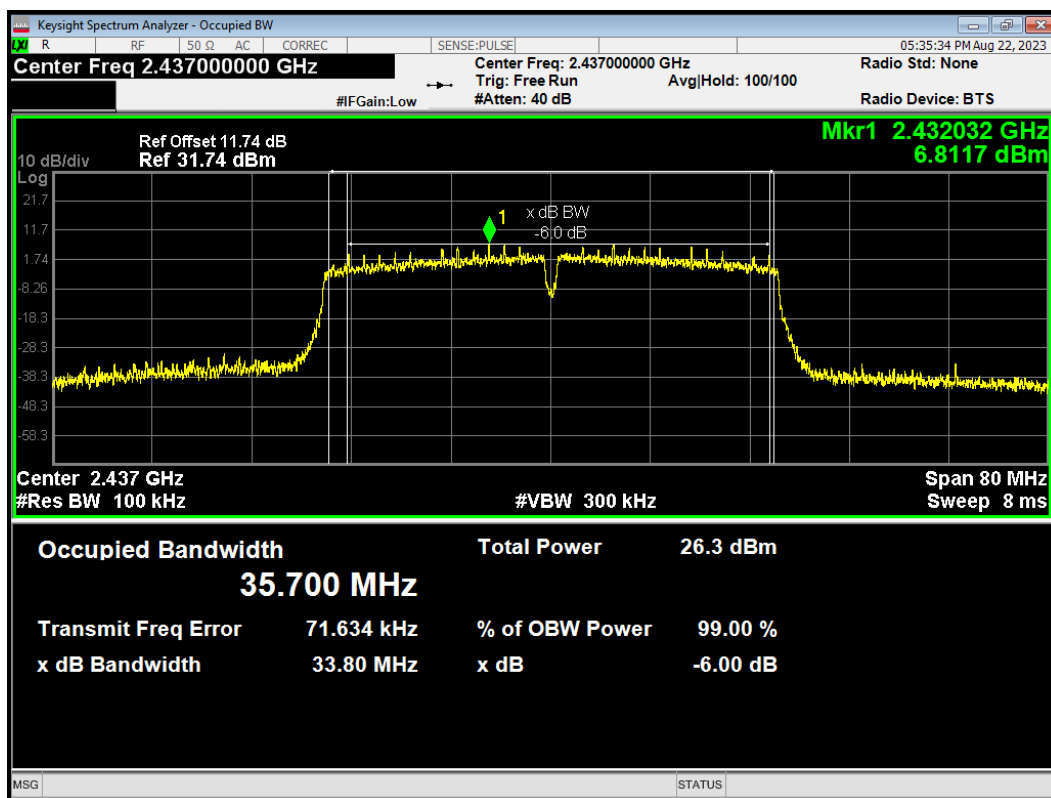
-6dB Bandwidth 802.11n(HT40) 2427MHz



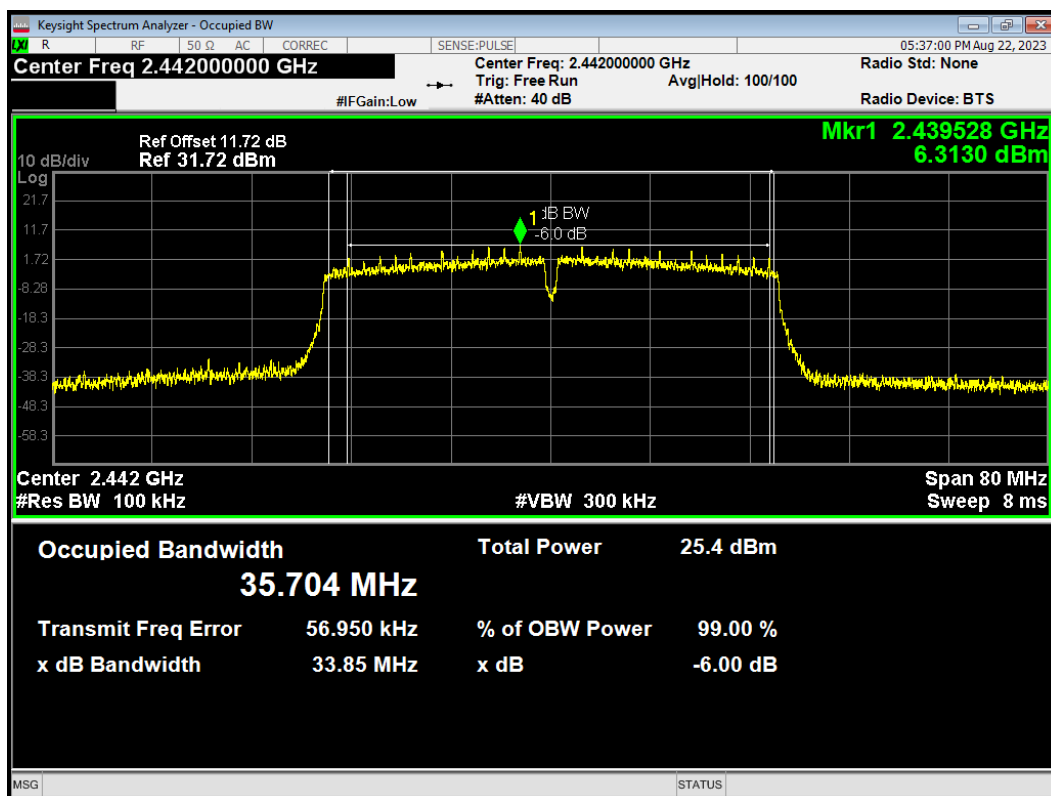
-6dB Bandwidth 802.11n(HT40) 2432MHz



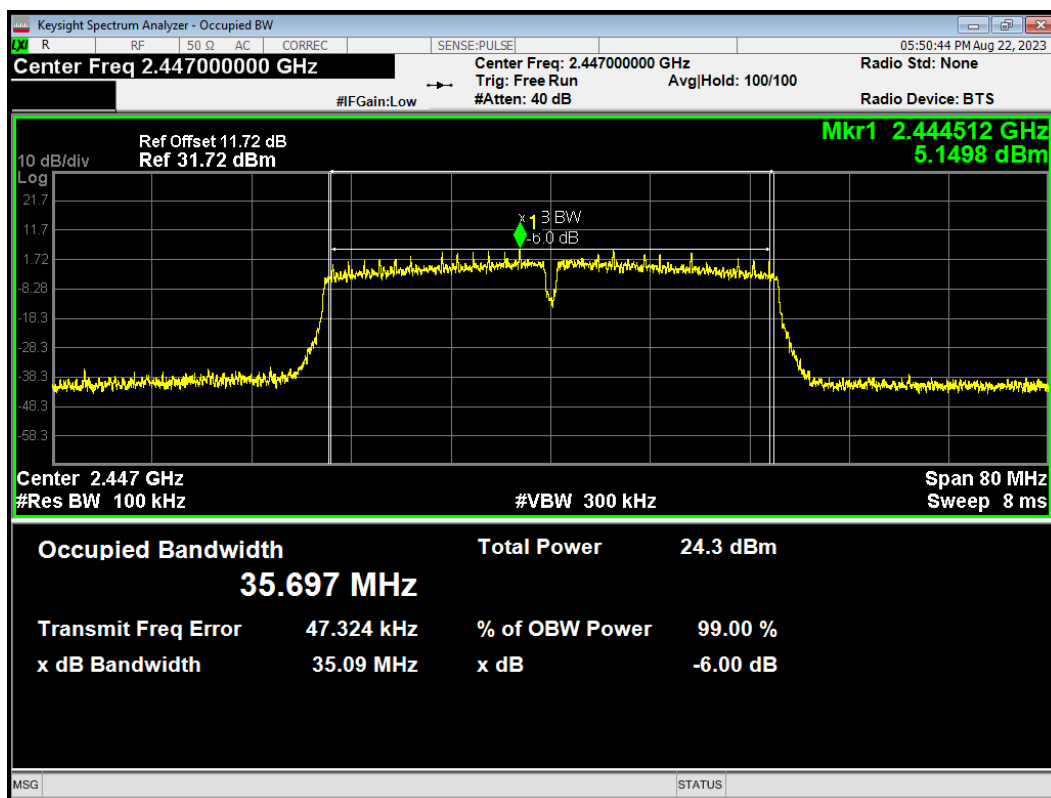
-6dB Bandwidth 802.11n(HT40) 2437MHz



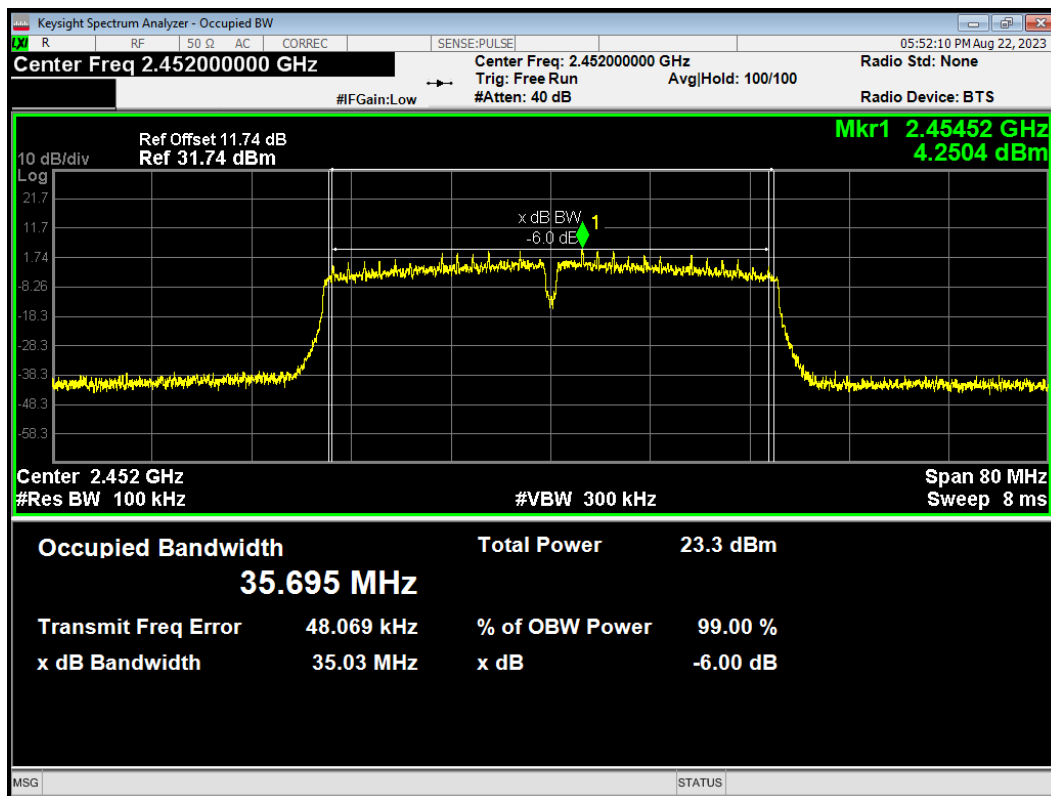
-6dB Bandwidth 802.11n(HT40) 2442MHz



-6dB Bandwidth 802.11n(HT40) 2447MHz



-6dB Bandwidth 802.11n(HT40) 2452MHz



5.3. Band Edge

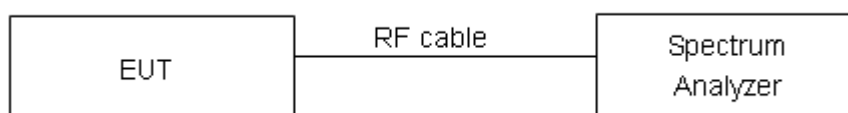
Ambient Condition

Temperature	Relative humidity
20°C ~ 25°C	45% ~ 50%

Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable the band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.” If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.”

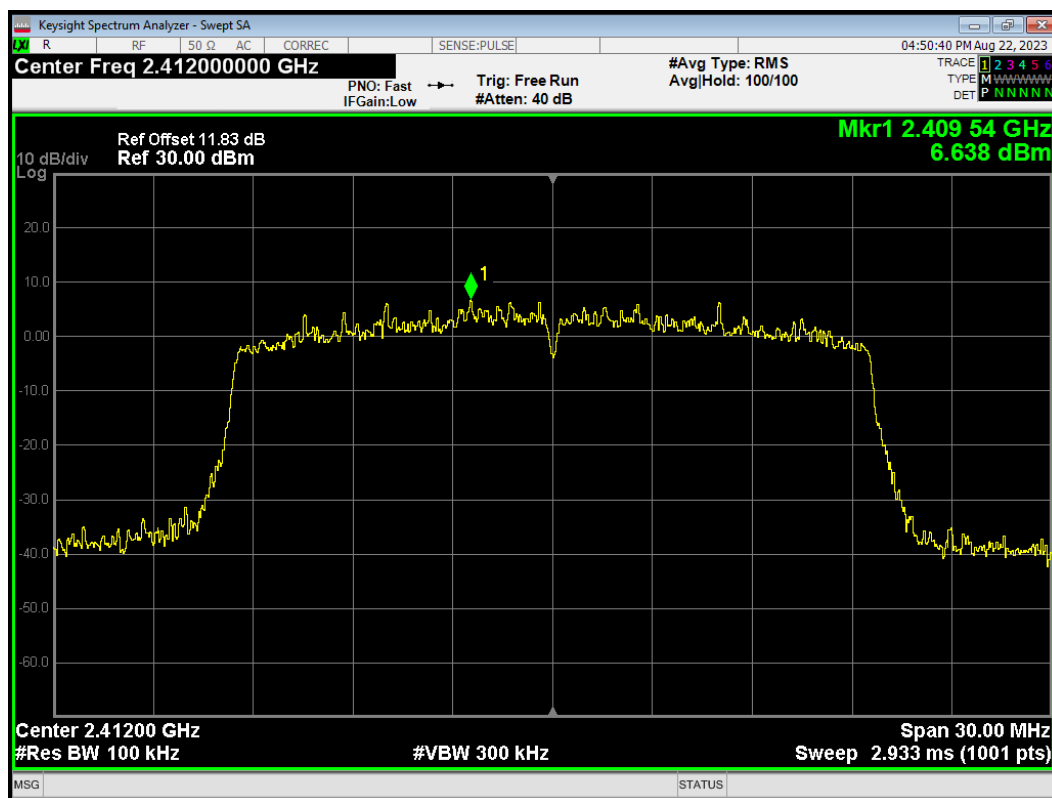
Measurement Uncertainty

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

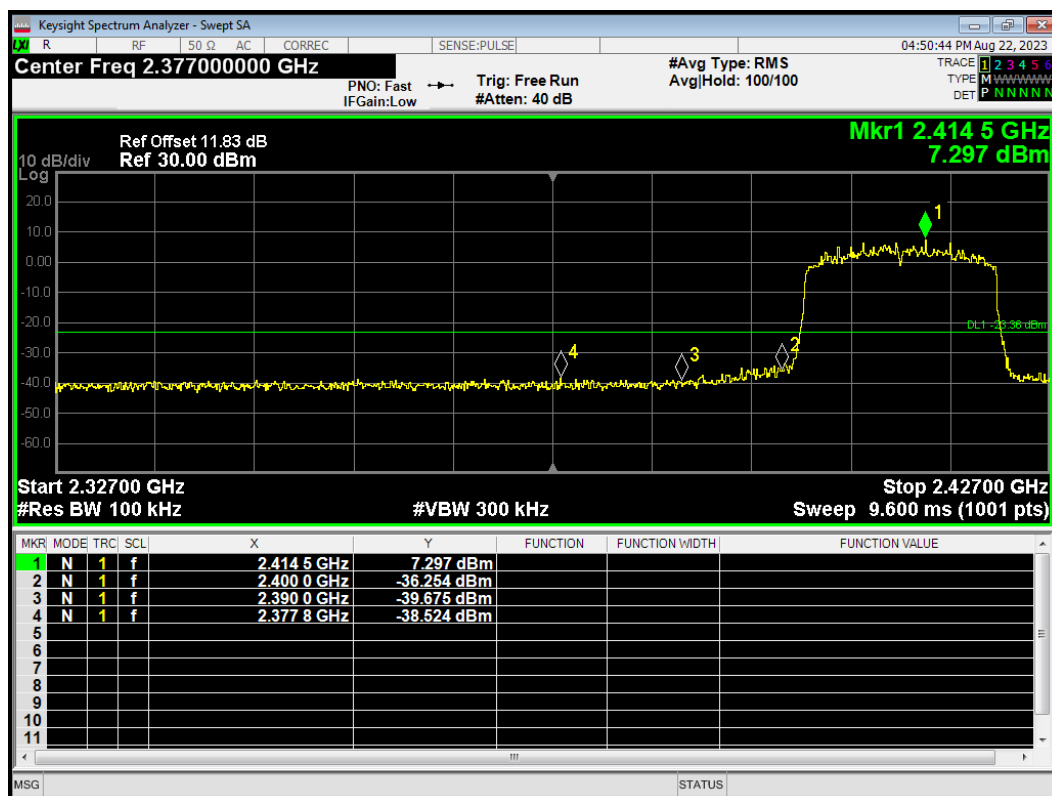
Frequency	Uncertainty
2GHz-3GHz	1.407 dB

Test Results: PASS

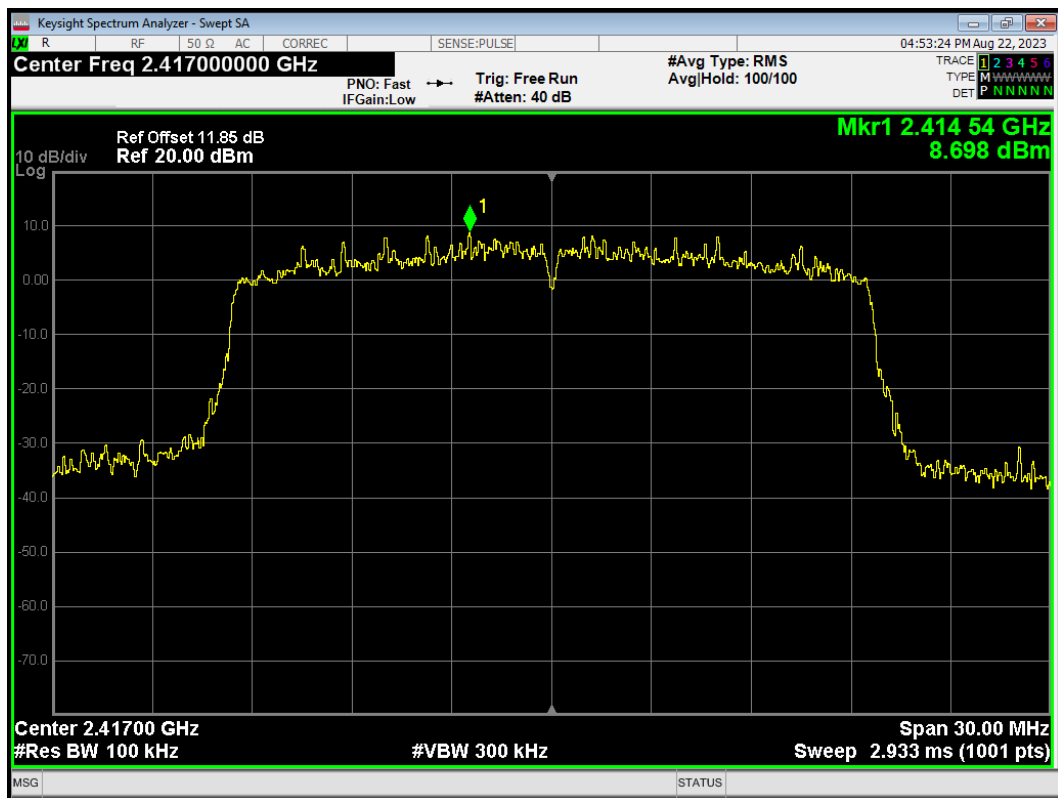
Band Edge 802.11ax(HE20) 2412MHz Ref



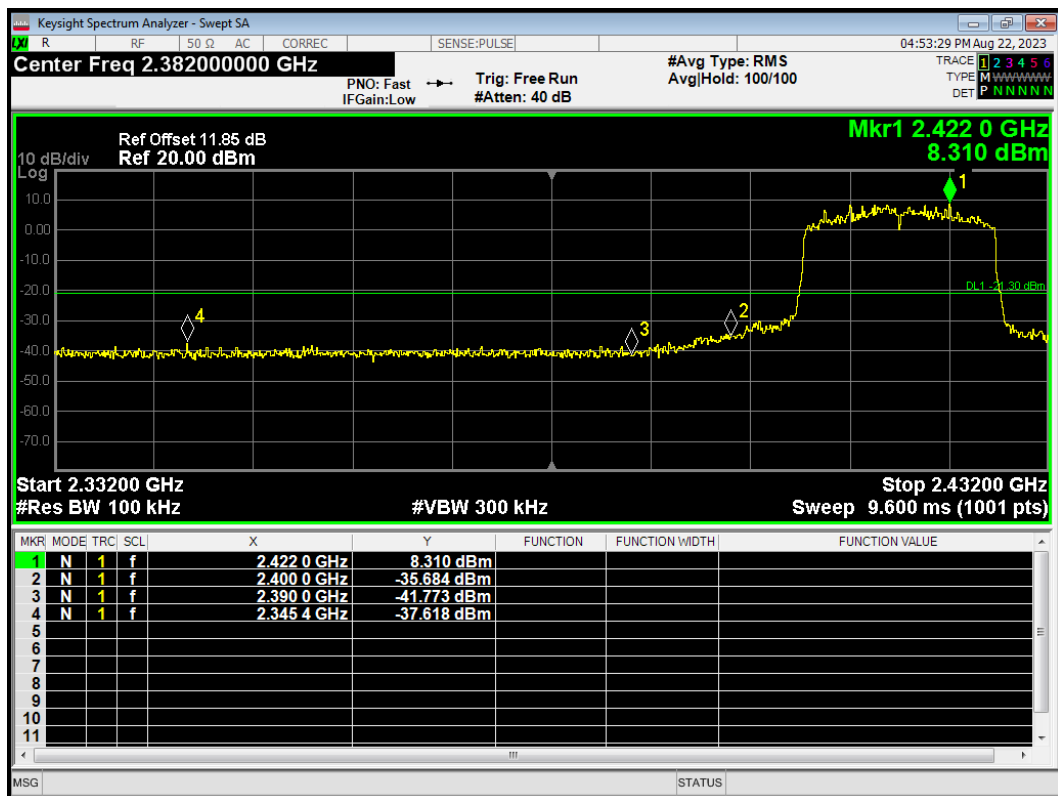
Band Edge 802.11ax(HE20) 2412MHz Emission



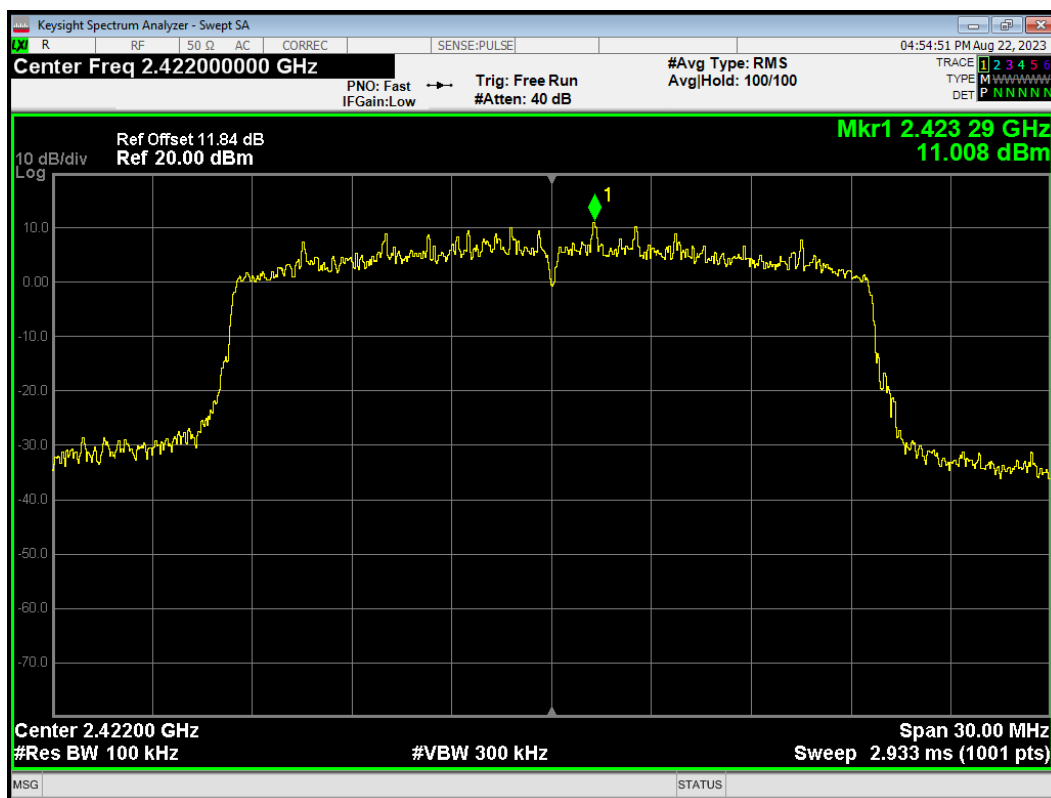
Band Edge 802.11ax(HE20) 2417MHz Ref



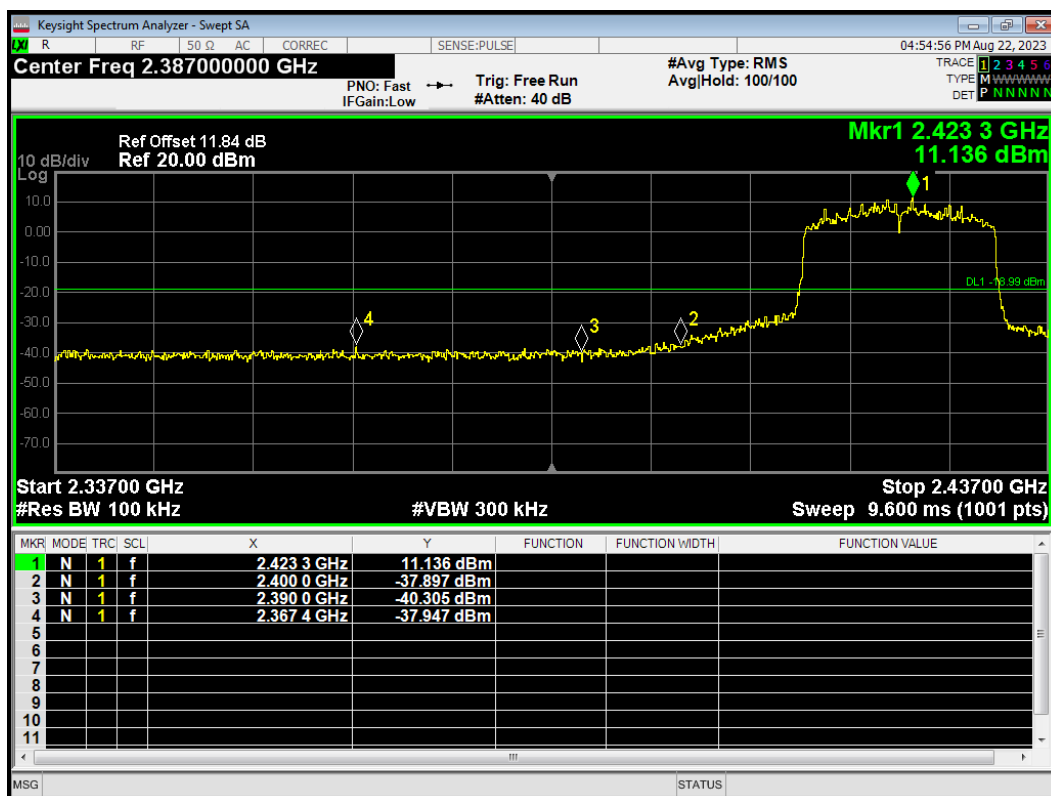
Band Edge 802.11ax(HE20) 2417MHz Emission



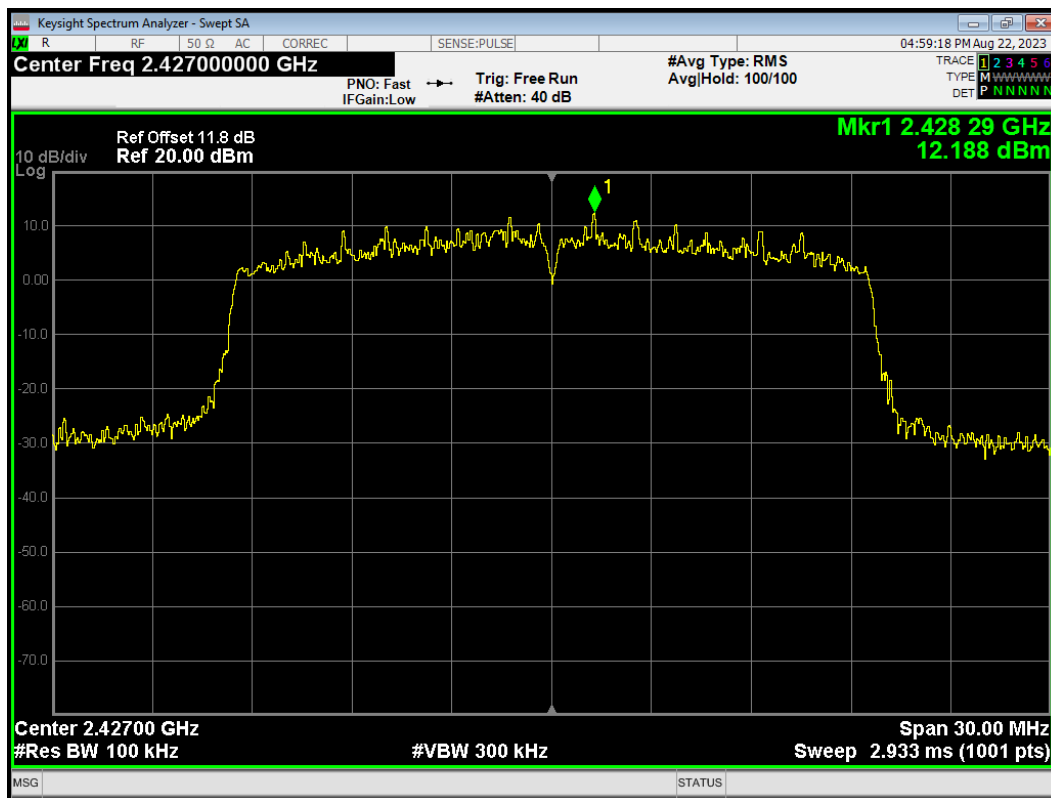
Band Edge 802.11ax(HE20) 2422MHz Ref



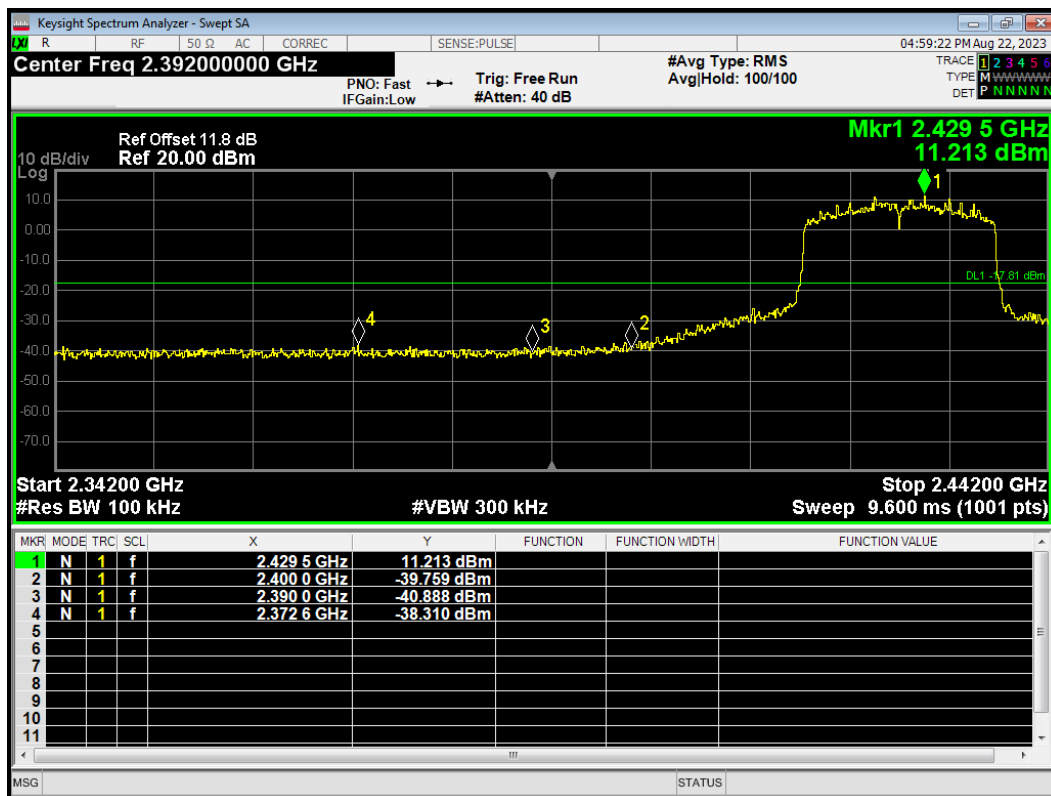
Band Edge 802.11ax(HE20) 2422MHz Emission



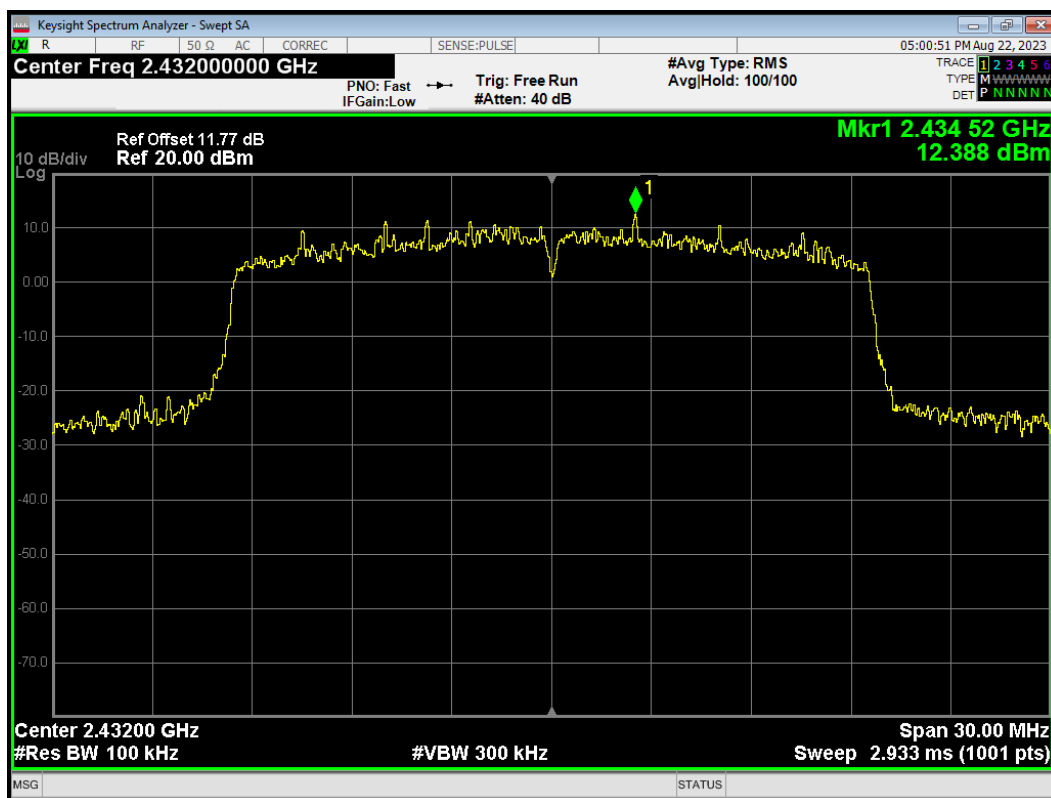
Band Edge 802.11ax(HE20) 2427MHz Ref



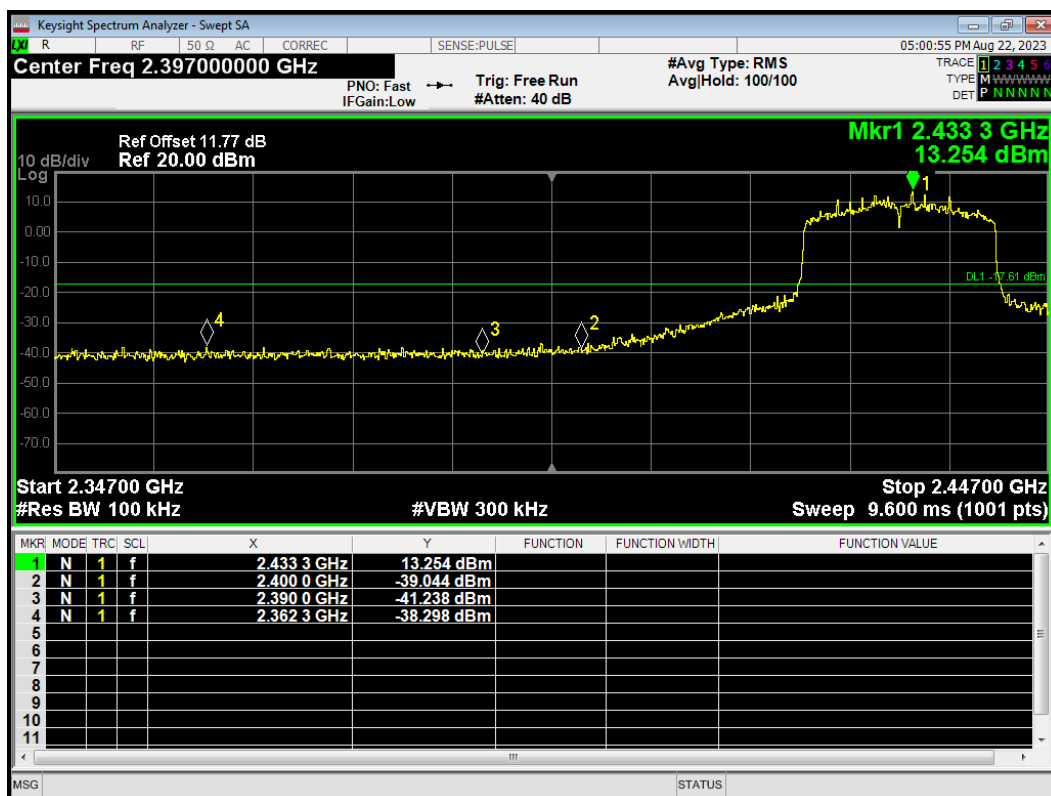
Band Edge 802.11ax(HE20) 2427MHz Emission



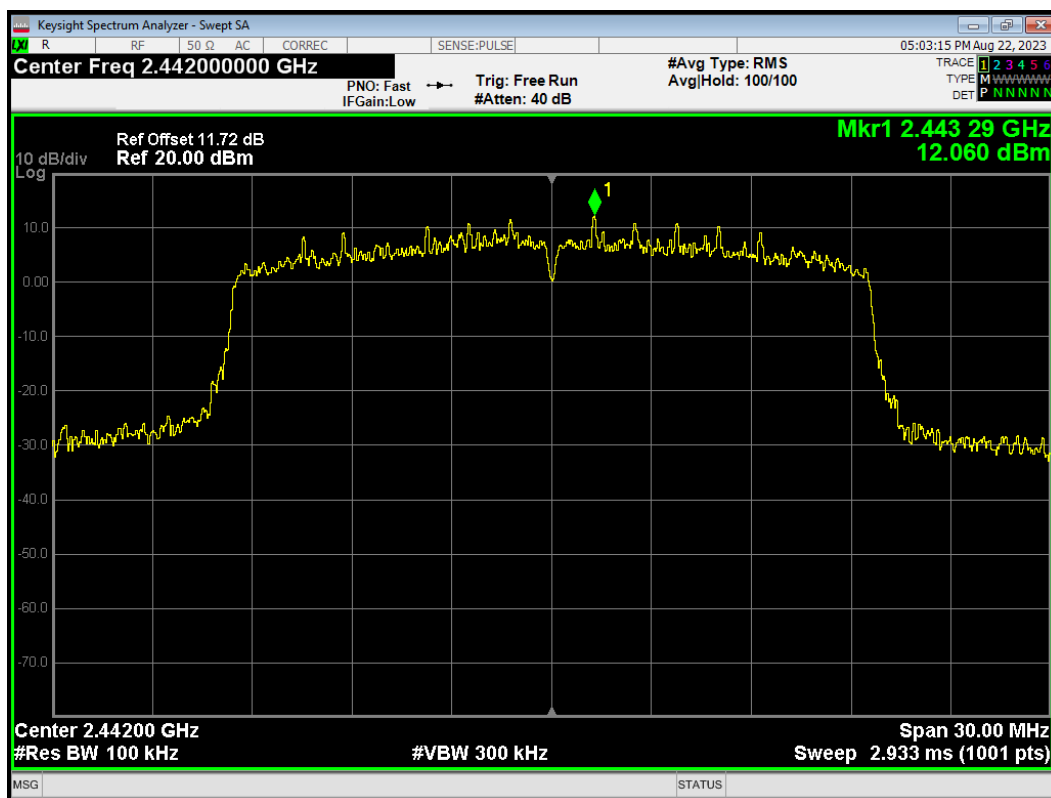
Band Edge 802.11ax(HE20) 2432MHz Ref



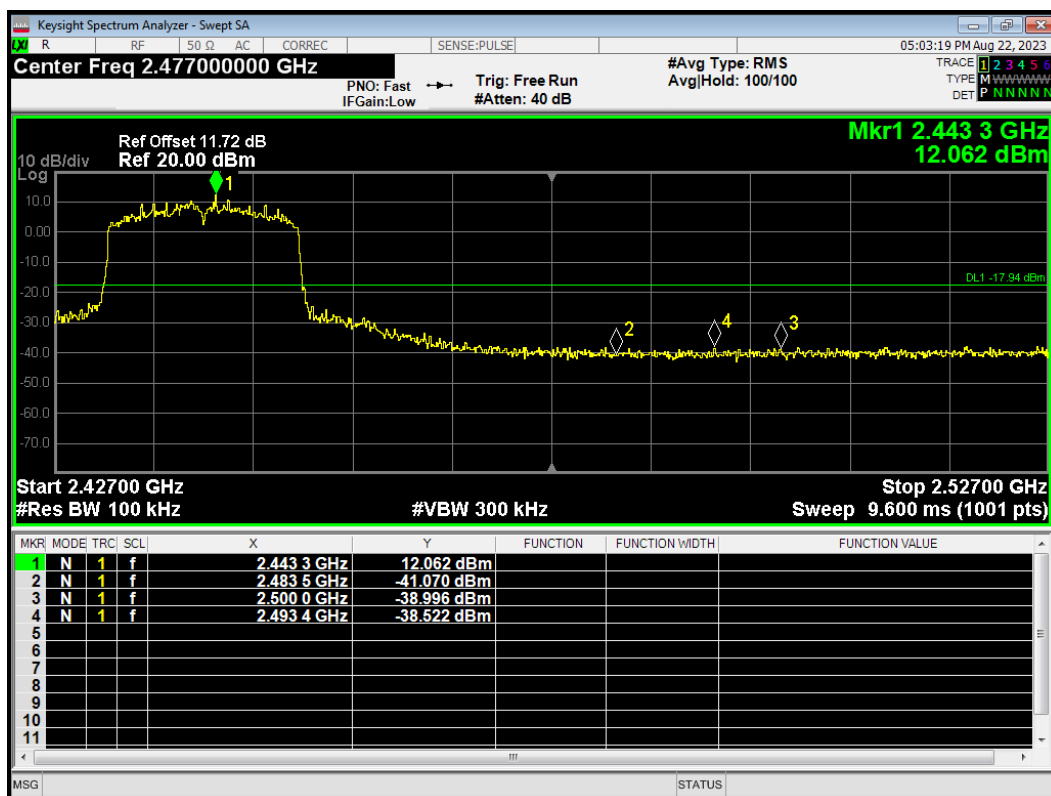
Band Edge 802.11ax(HE20) 2432MHz Emission



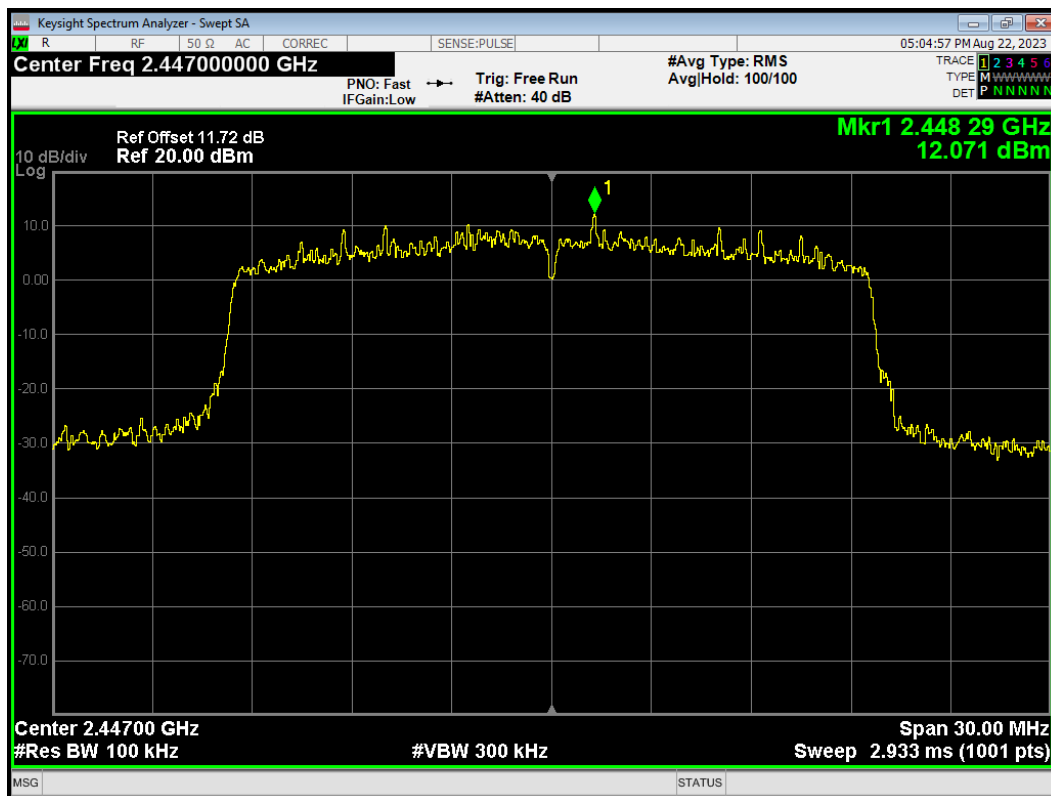
Band Edge 802.11ax(HE20) 2442MHz Ref



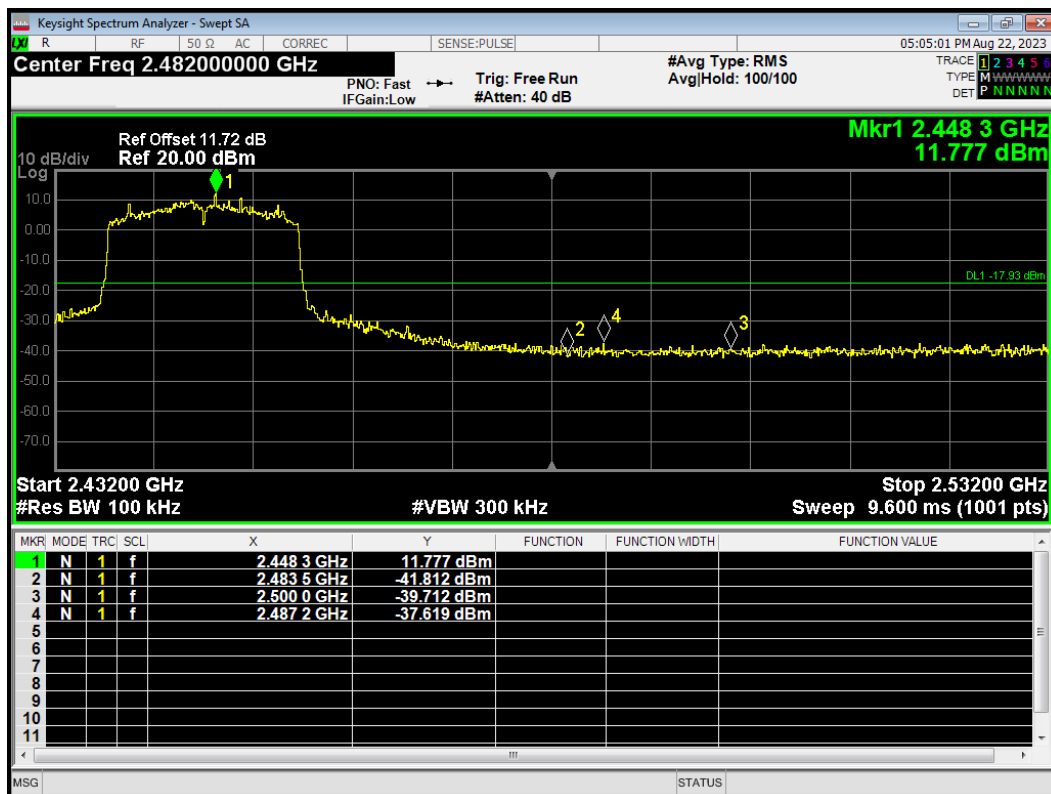
Band Edge 802.11ax(HE20) 2442MHz Emission



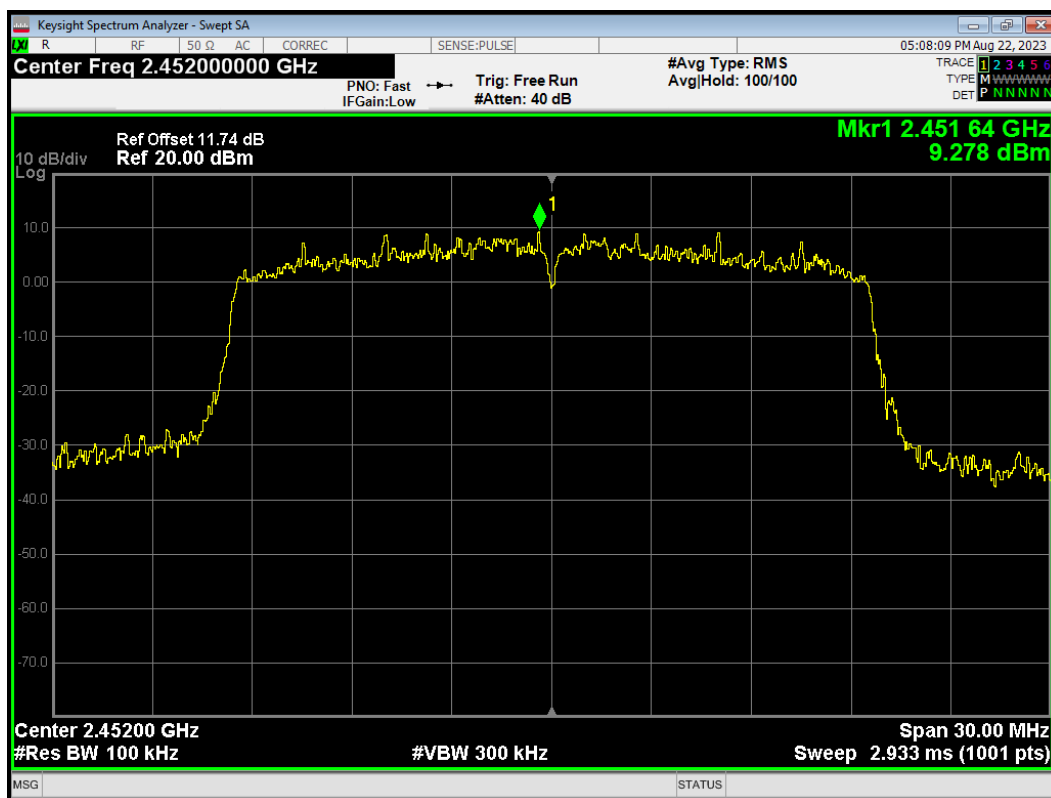
Band Edge 802.11ax(HE20) 2447MHz Ref



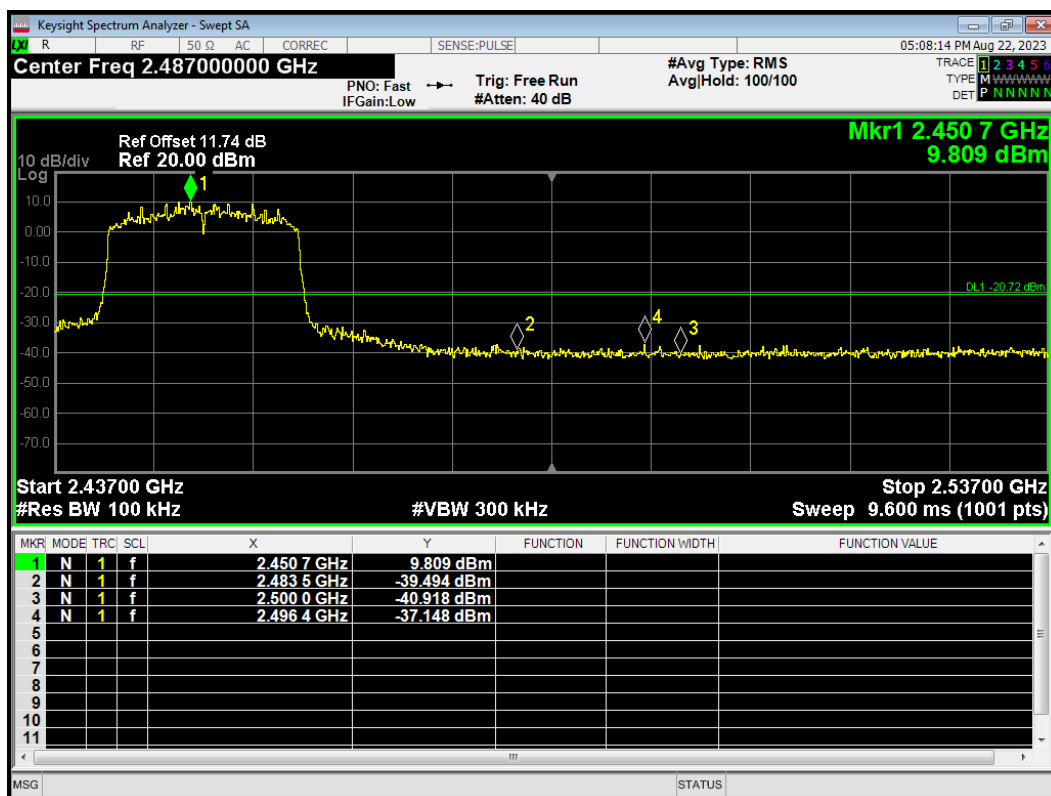
Band Edge 802.11ax(HE20) 2447MHz Emission



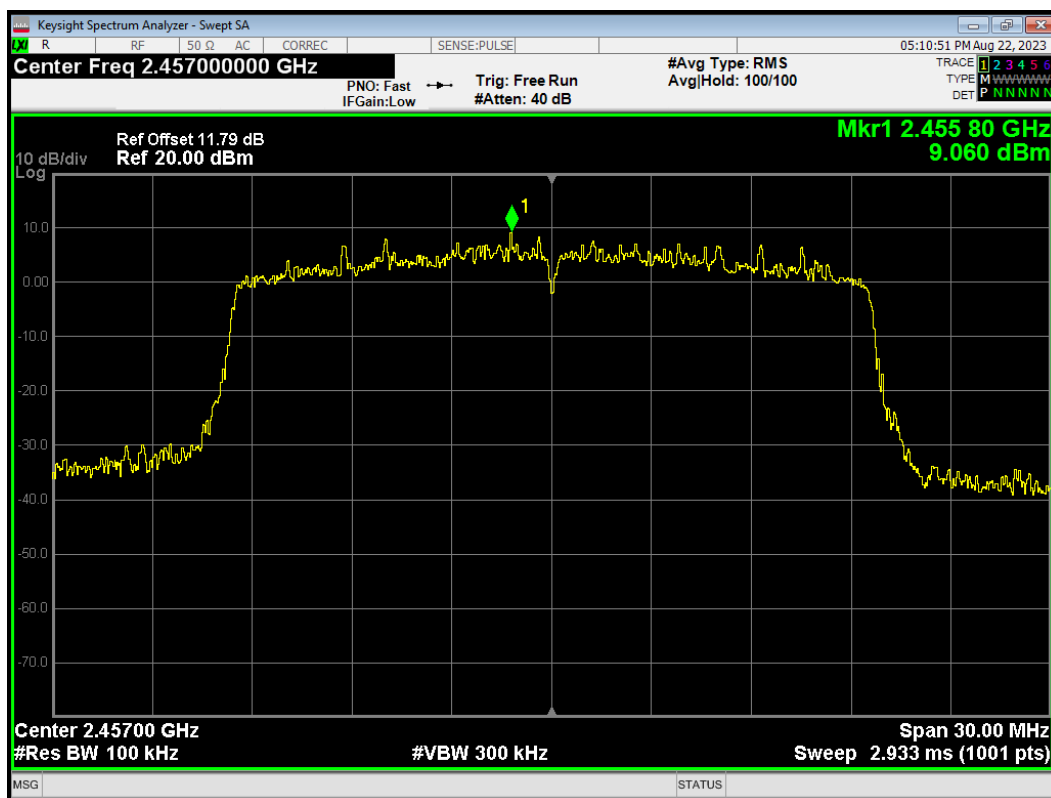
Band Edge 802.11ax(HE20) 2452MHz Ref



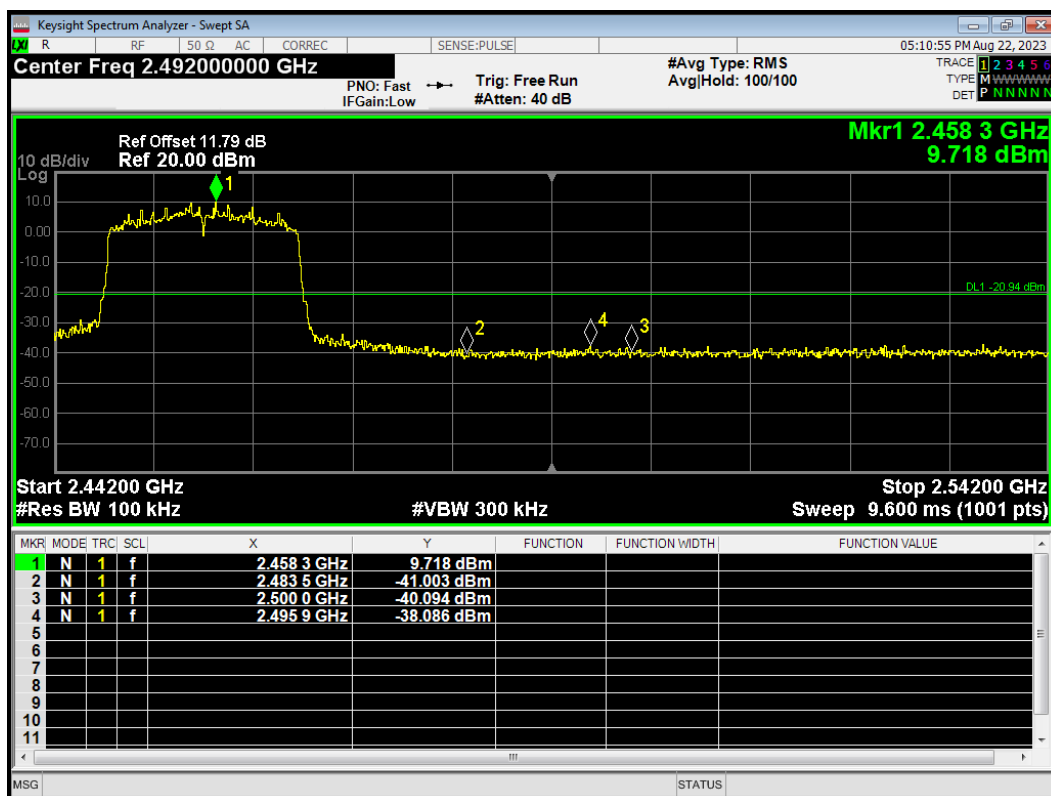
Band Edge 802.11ax(HE20) 2452MHz Emission



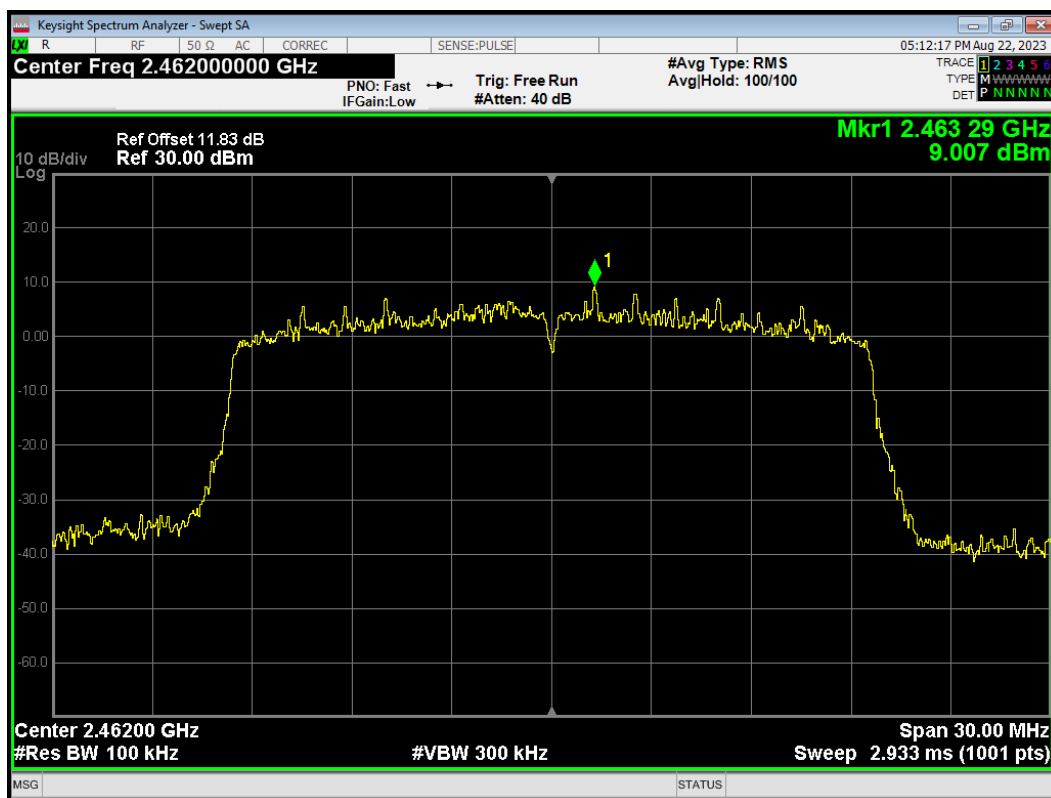
Band Edge 802.11ax(HE20) 2457MHz Ref



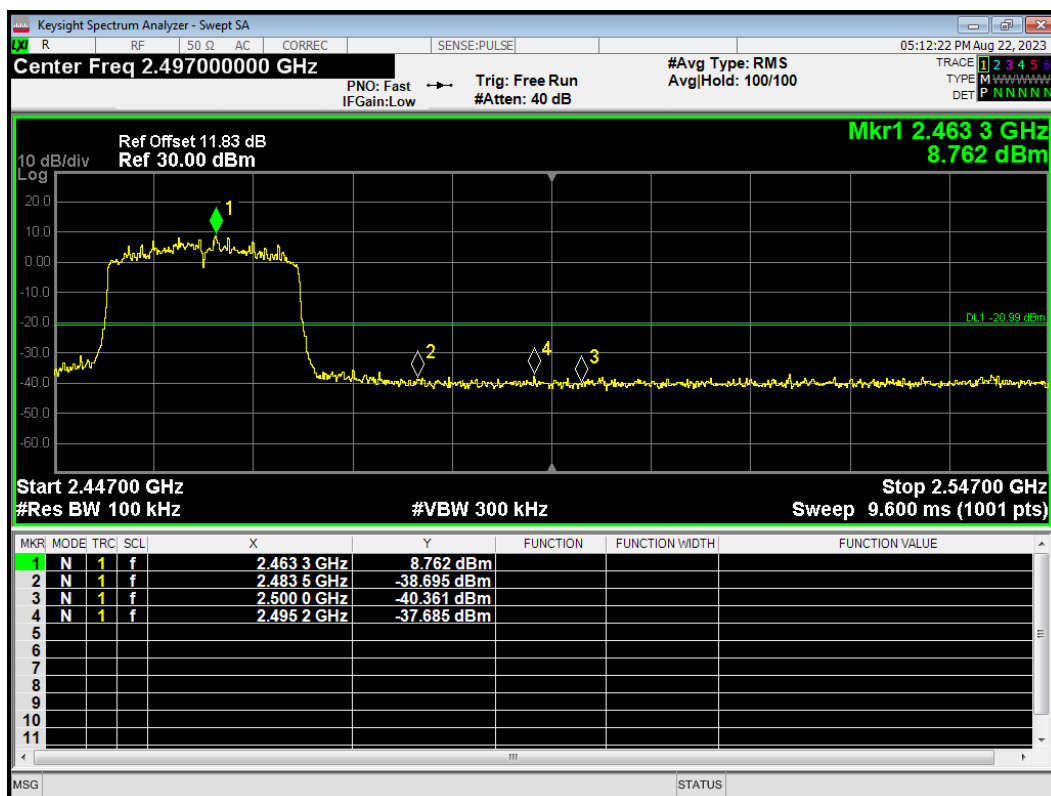
Band Edge 802.11ax(HE20) 2457MHz Emission



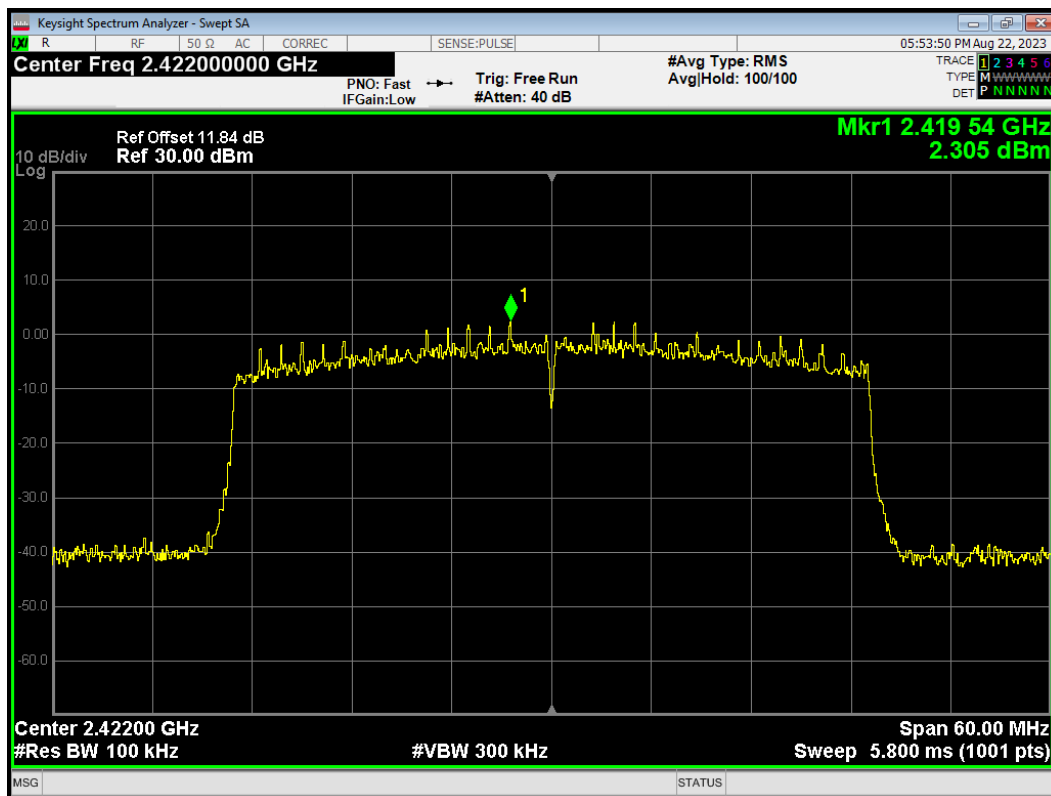
Band Edge 802.11ax(HE20) 2462MHz Ref



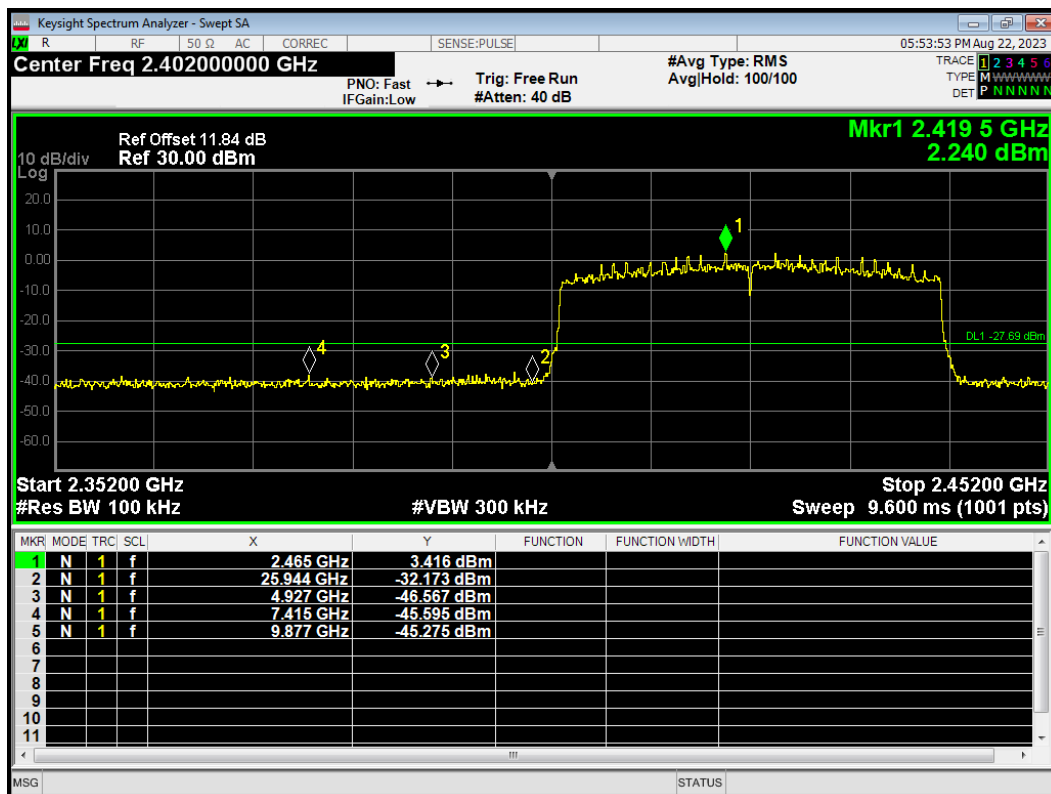
Band Edge 802.11ax(HE20) 2462MHz Emission



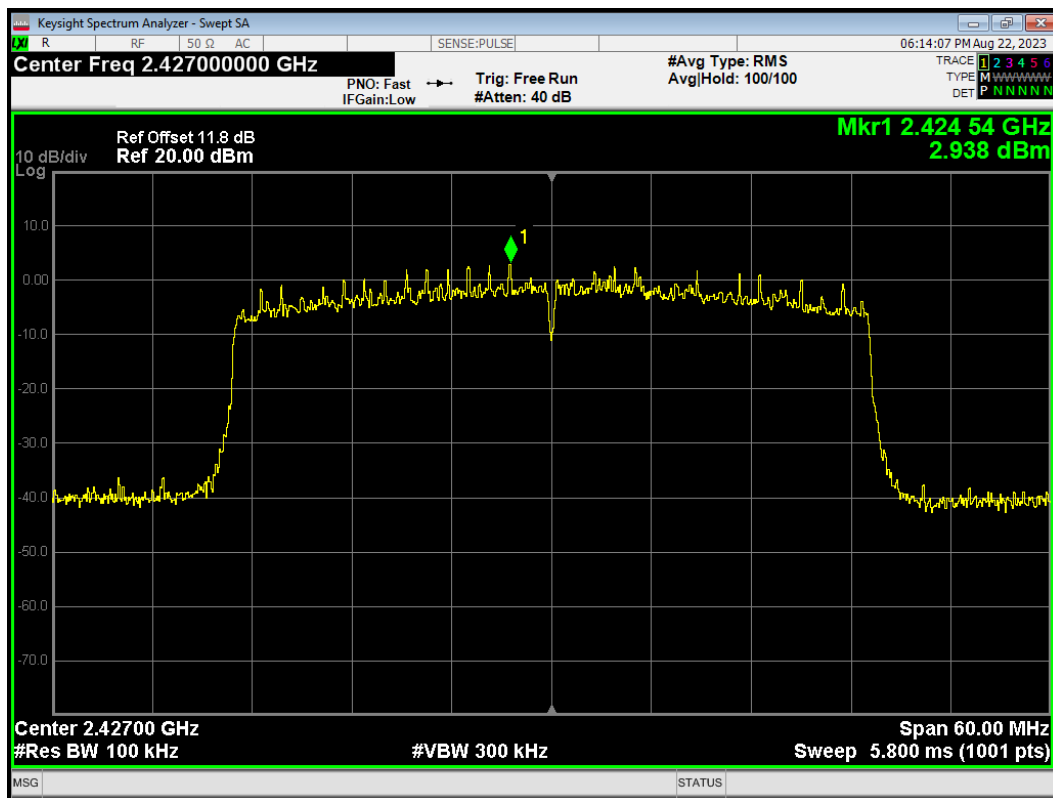
Band Edge 802.11ax(HE40) 2422MHz Ref



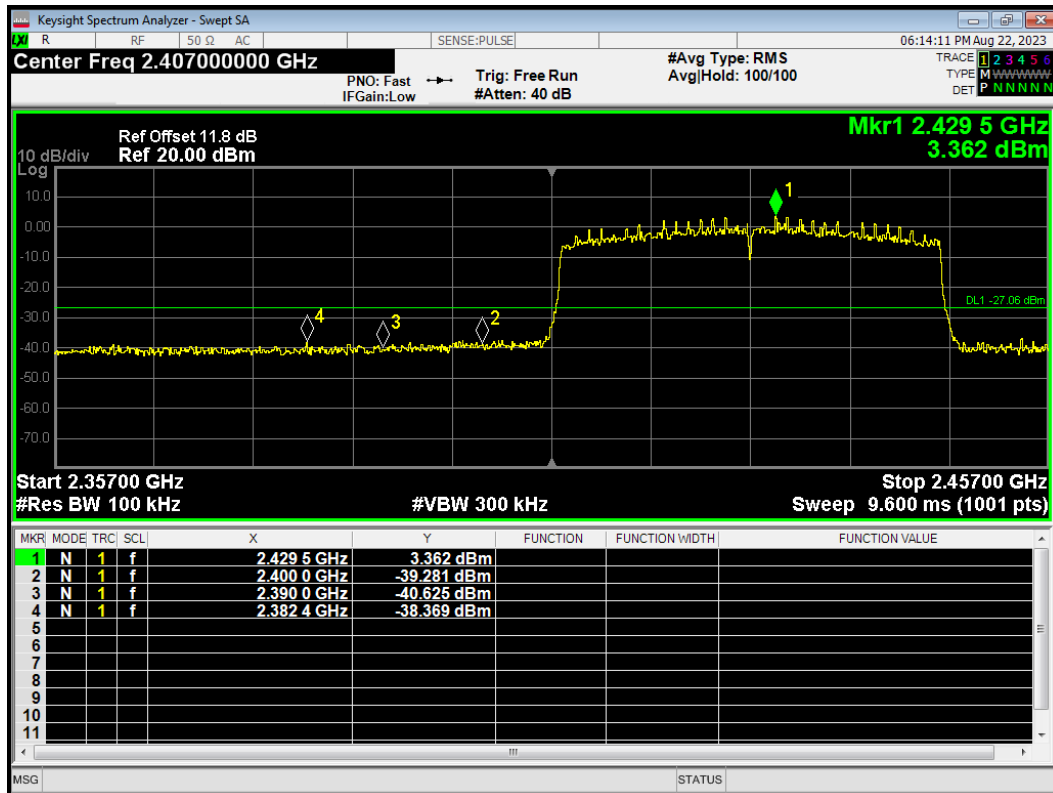
Band Edge 802.11ax(HE40) 2422MHz Emission



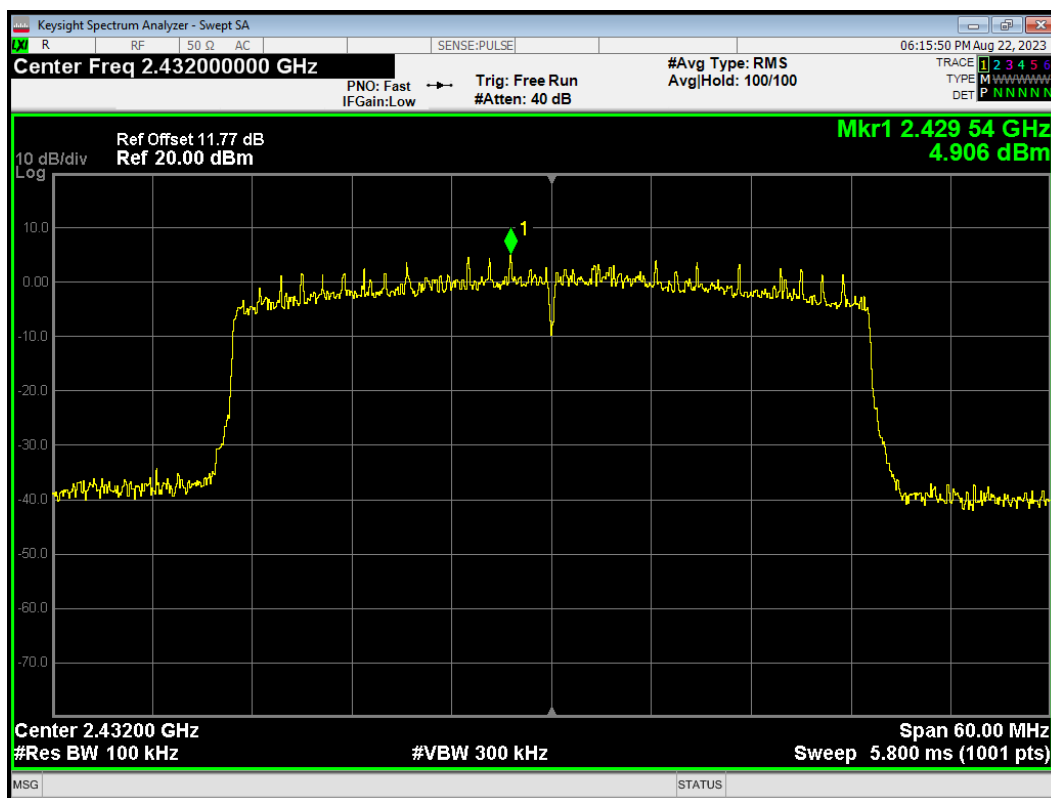
Band Edge 802.11ax(HE40) 2427MHz Ref



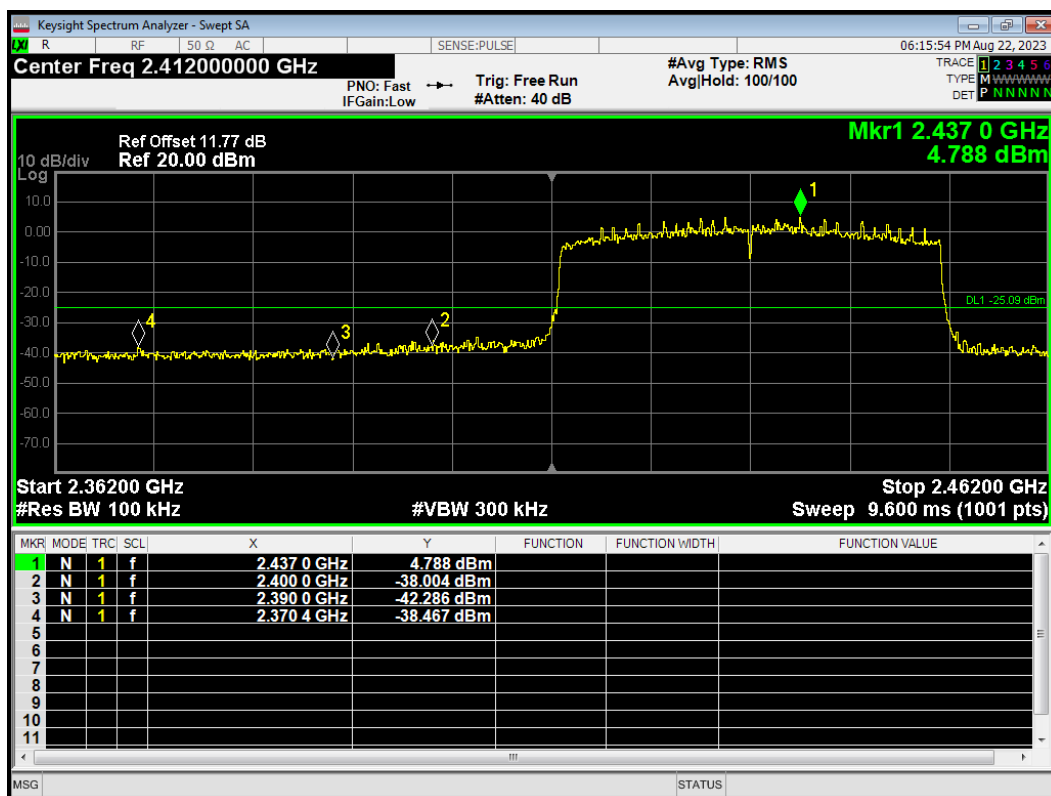
Band Edge 802.11ax(HE40) 2427MHz Emission



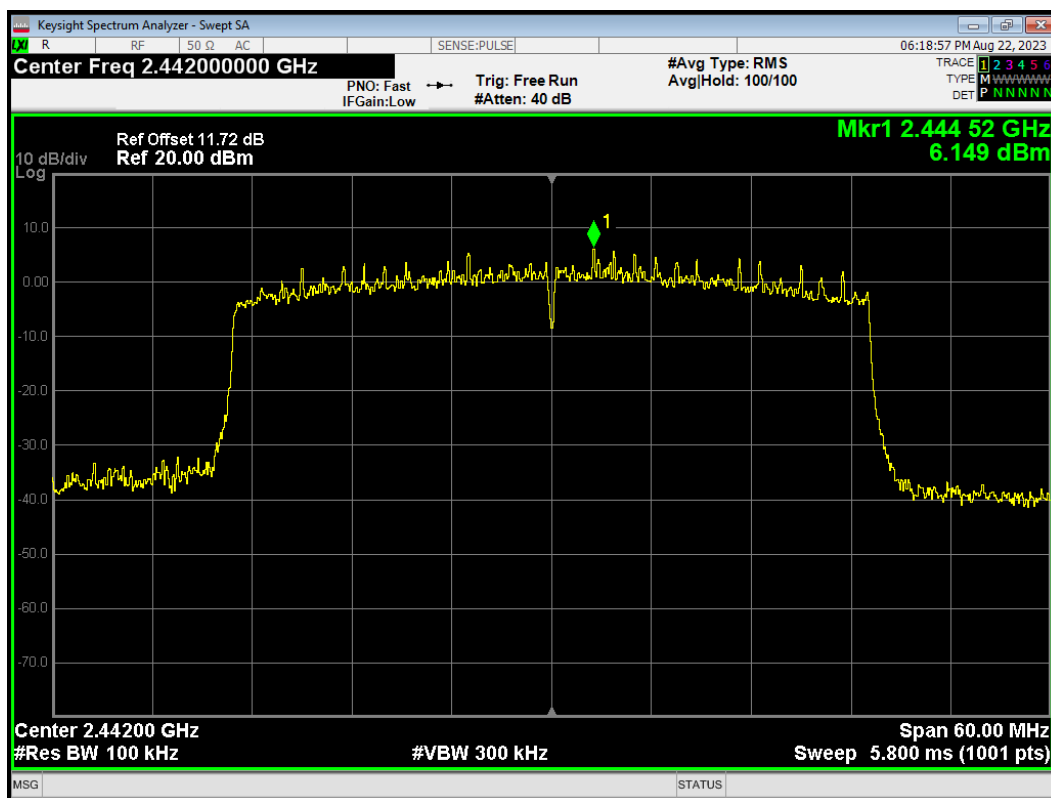
Band Edge 802.11ax(HE40) 2432MHz Ref



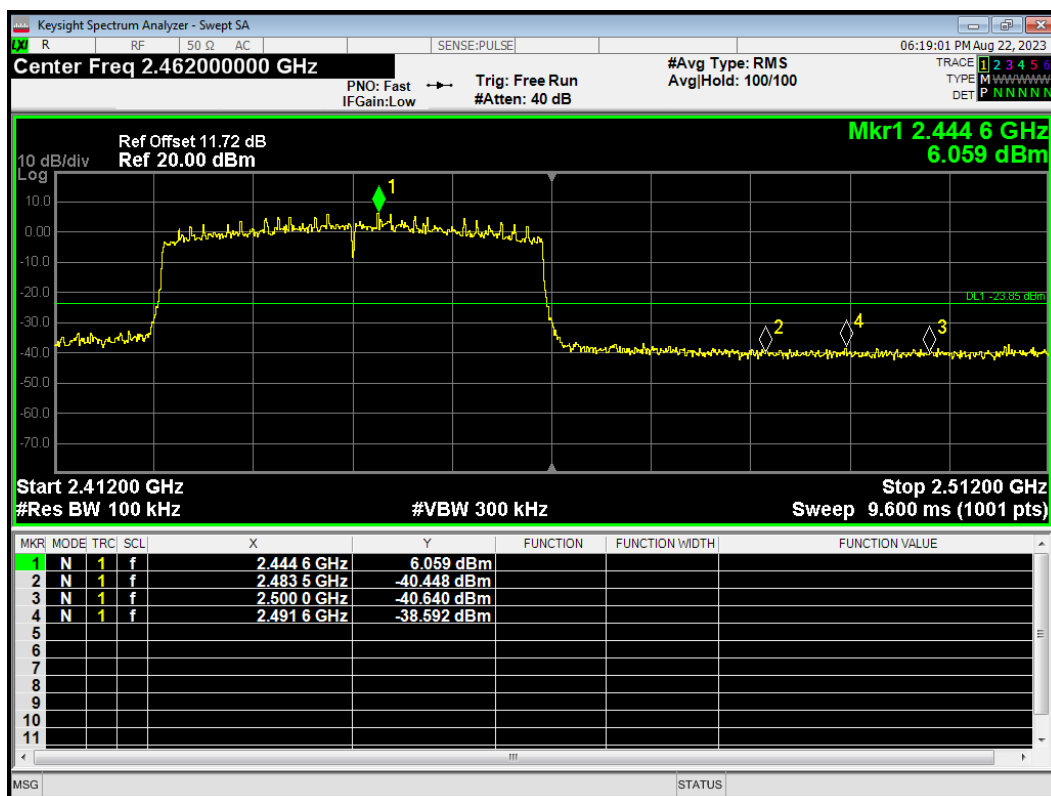
Band Edge 802.11ax(HE40) 2432MHz Emission



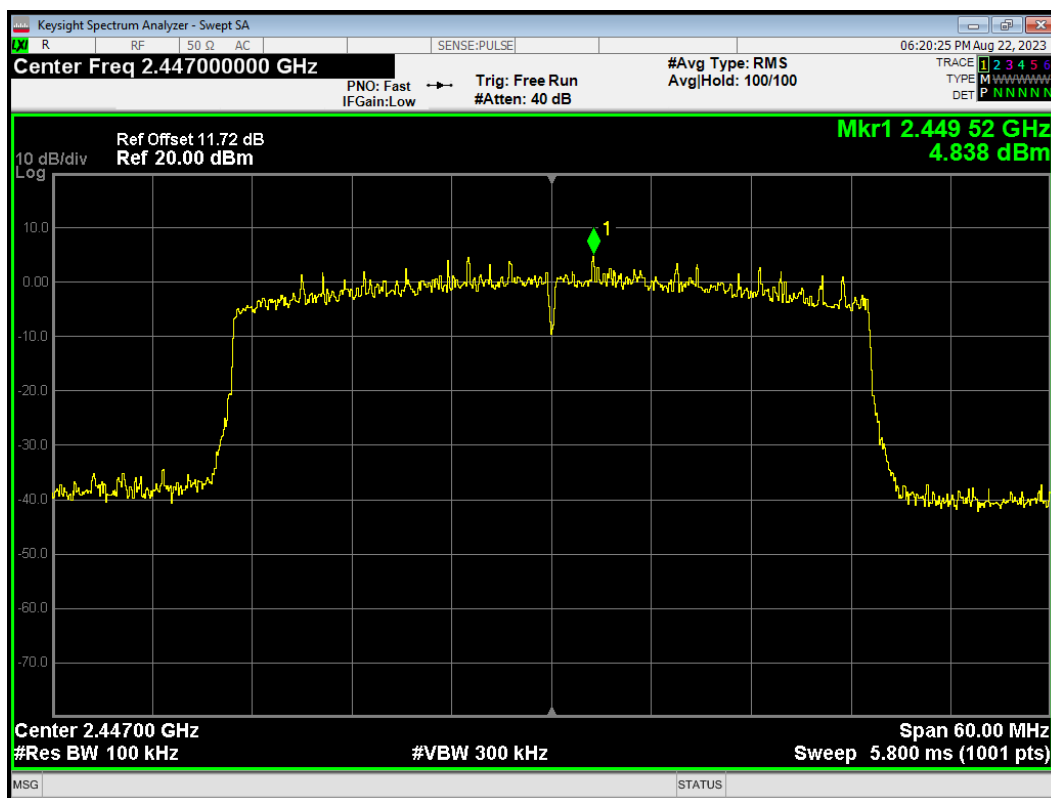
Band Edge 802.11ax(HE40) 2442MHz Ref



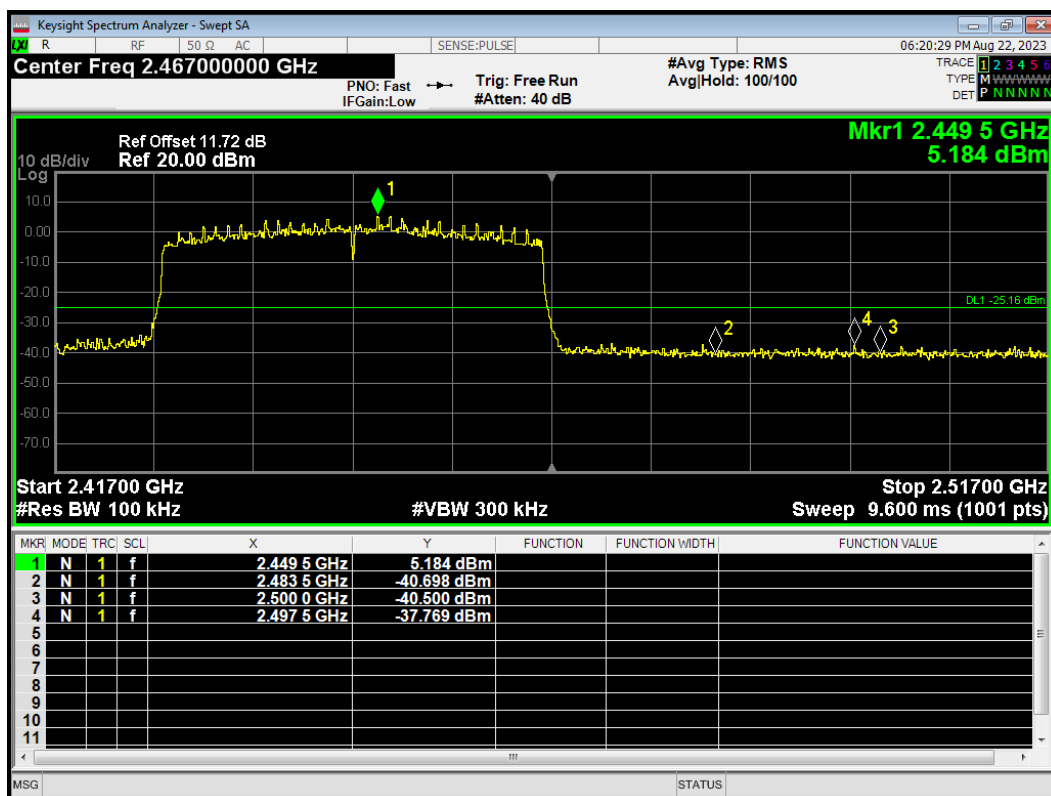
Band Edge 802.11ax(HE40) 2442MHz Emission



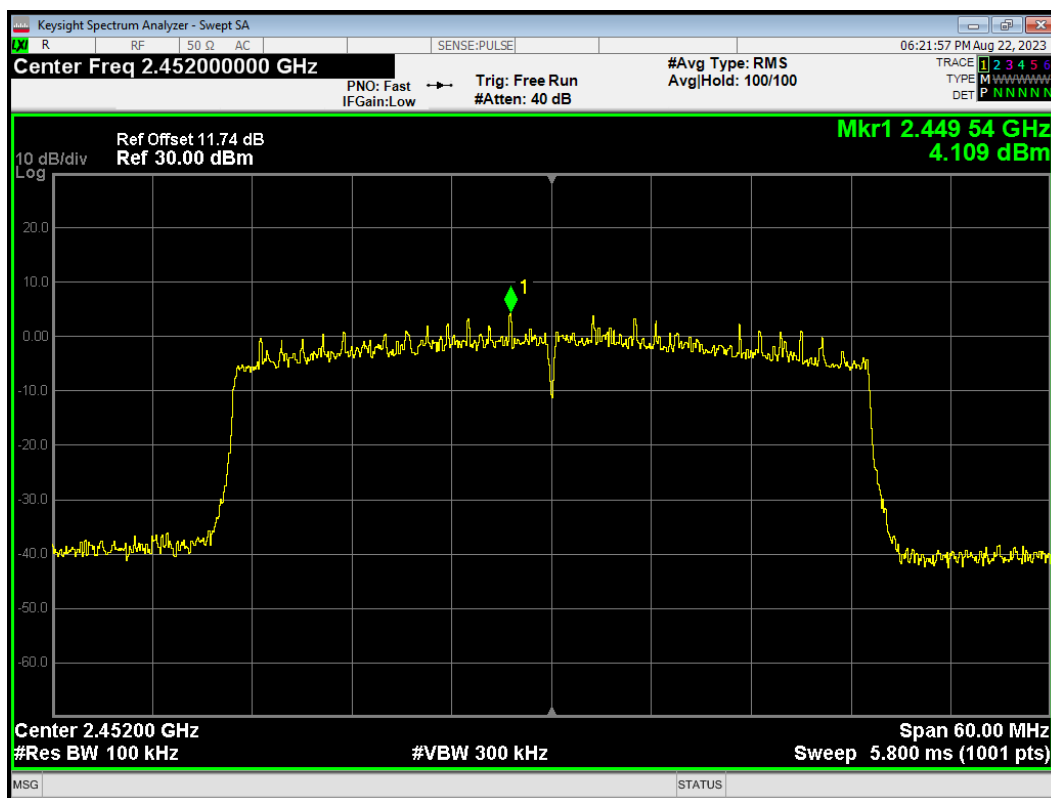
Band Edge 802.11ax(HE40) 2447MHz Ref



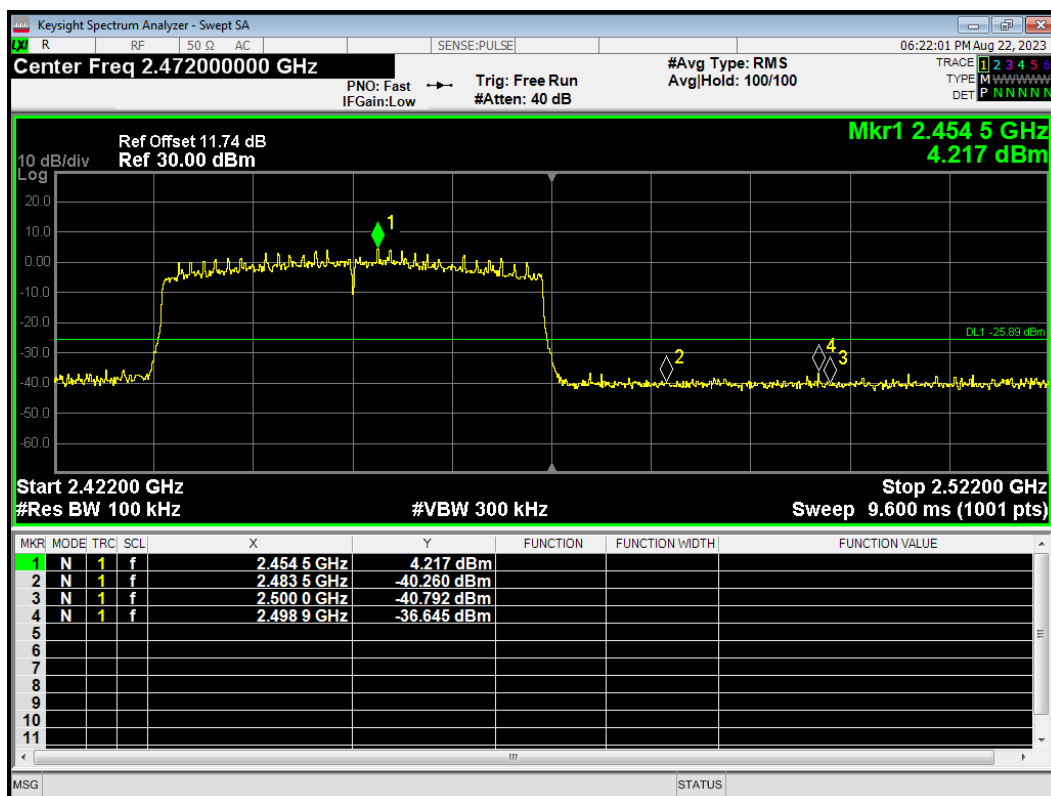
Band Edge 802.11ax(HE40) 2447MHz Emission



Band Edge 802.11ax(HE40) 2452MHz Ref



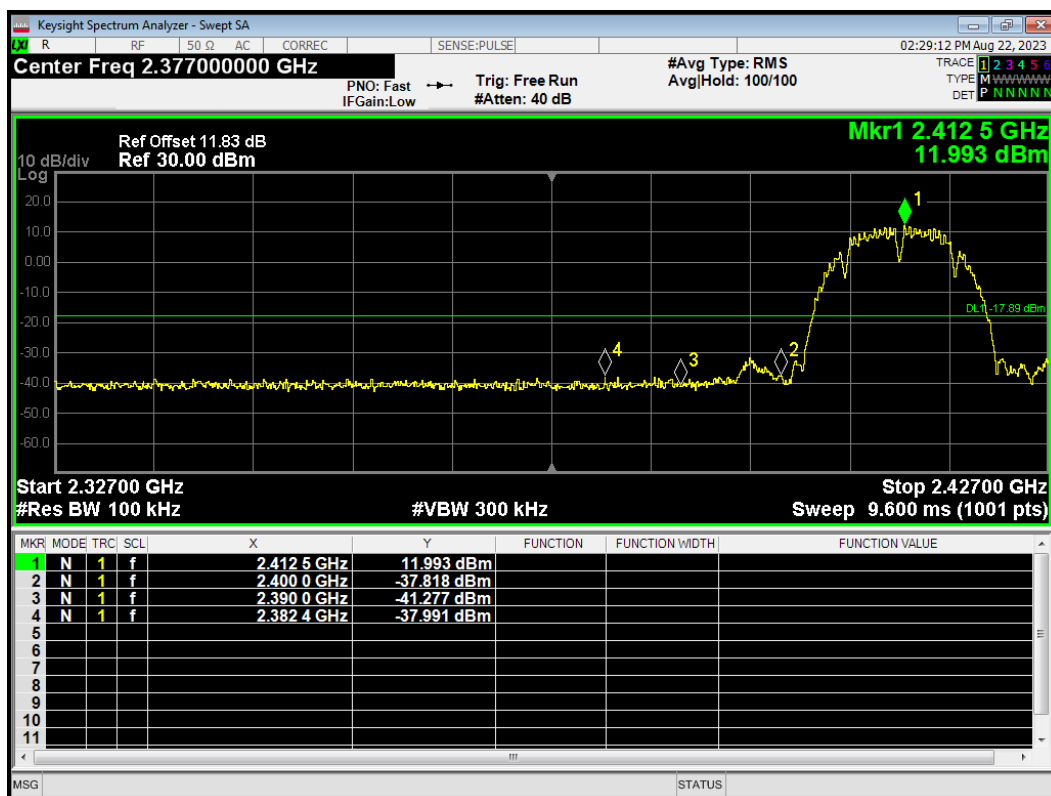
Band Edge 802.11ax(HE40) 2452MHz Emission



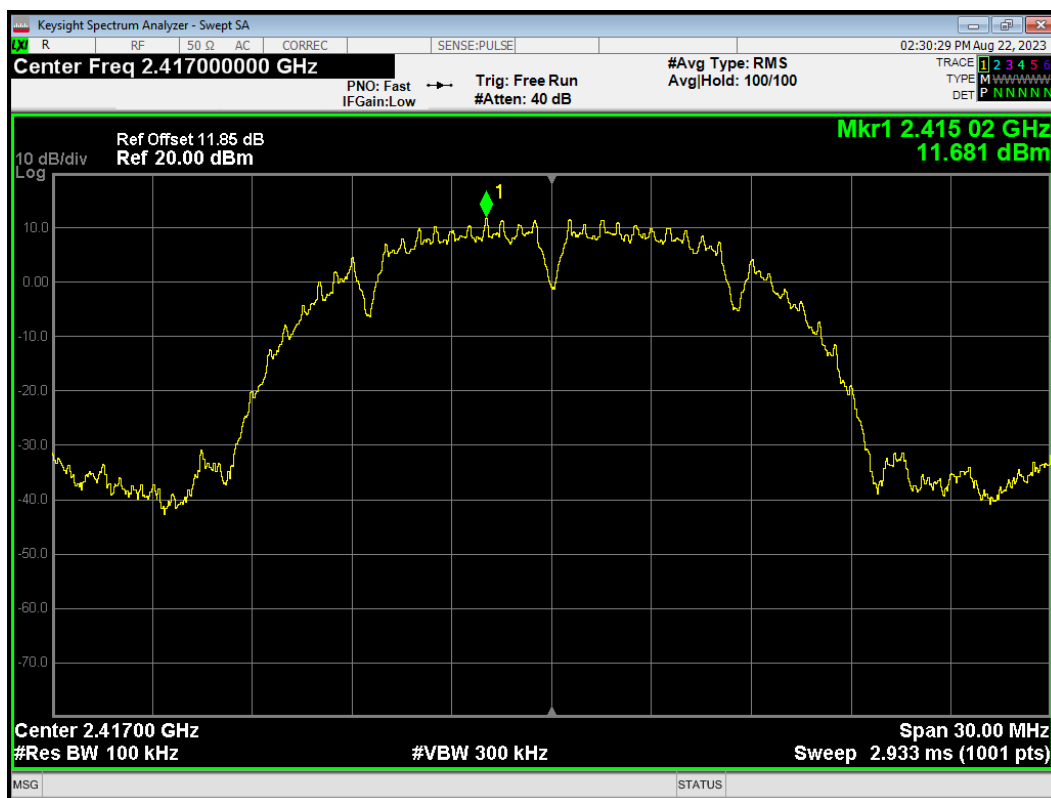
Band Edge 802.11b 2412MHz Ref



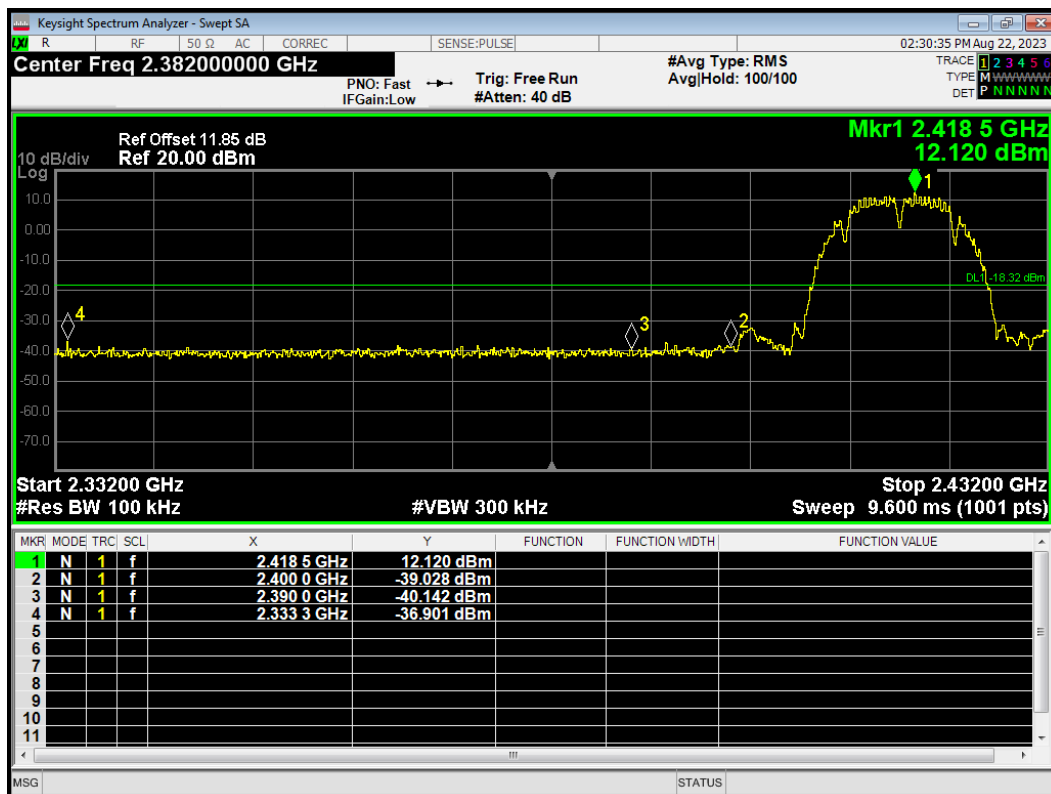
Band Edge 802.11b 2412MHz Emission



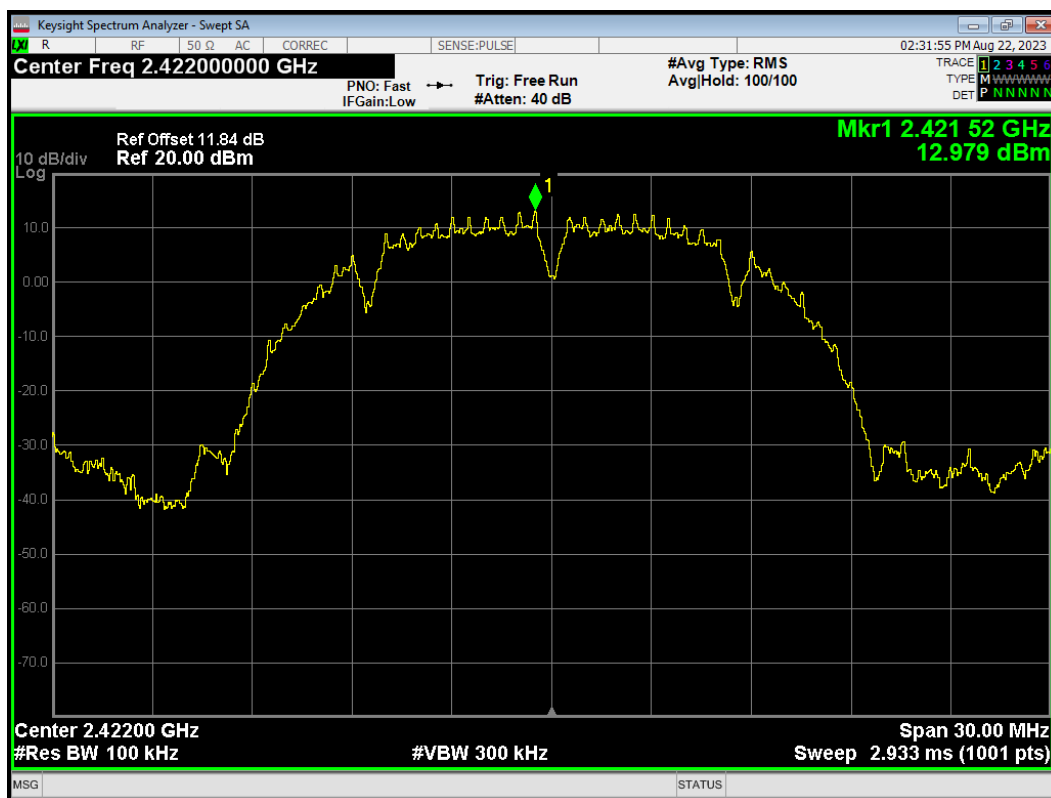
Band Edge 802.11b 2417MHz Ref



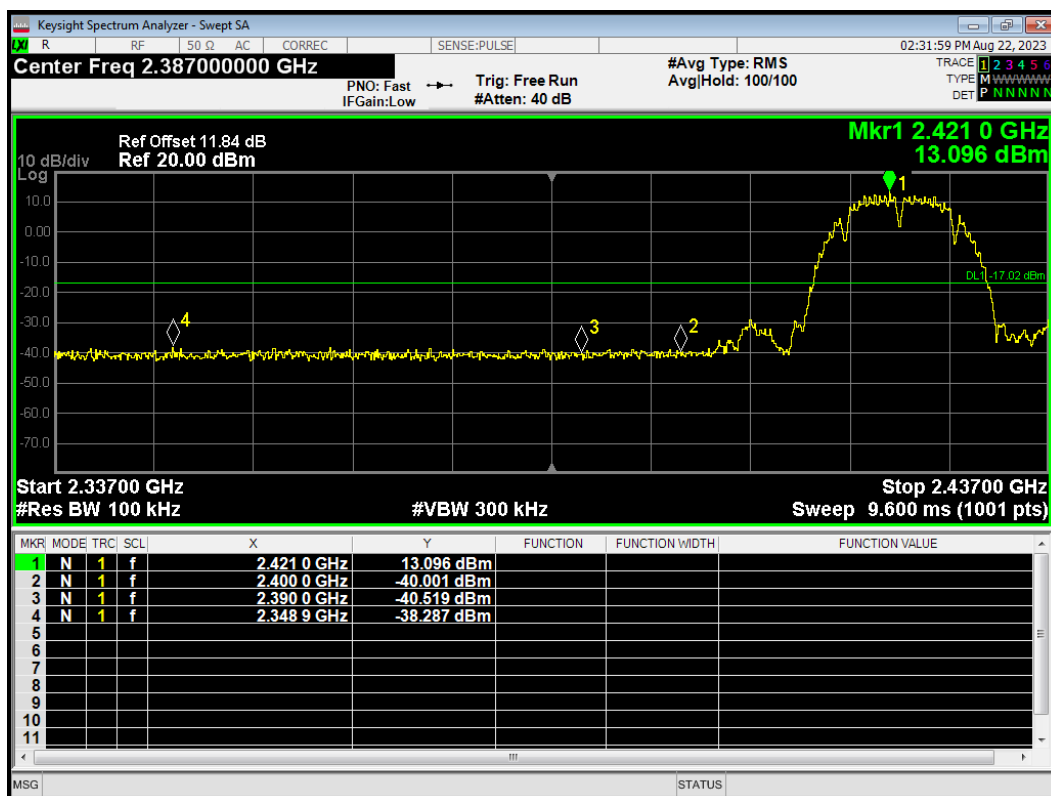
Band Edge 802.11b 2417MHz Emission



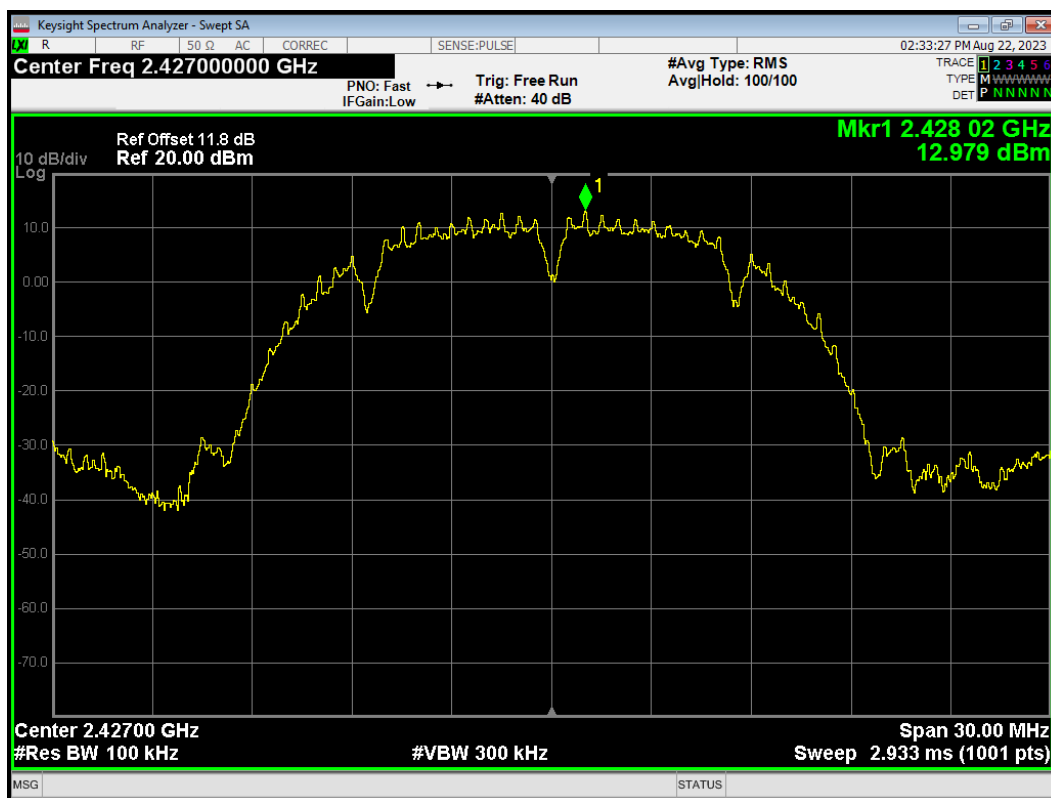
Band Edge 802.11b 2422MHz Ref



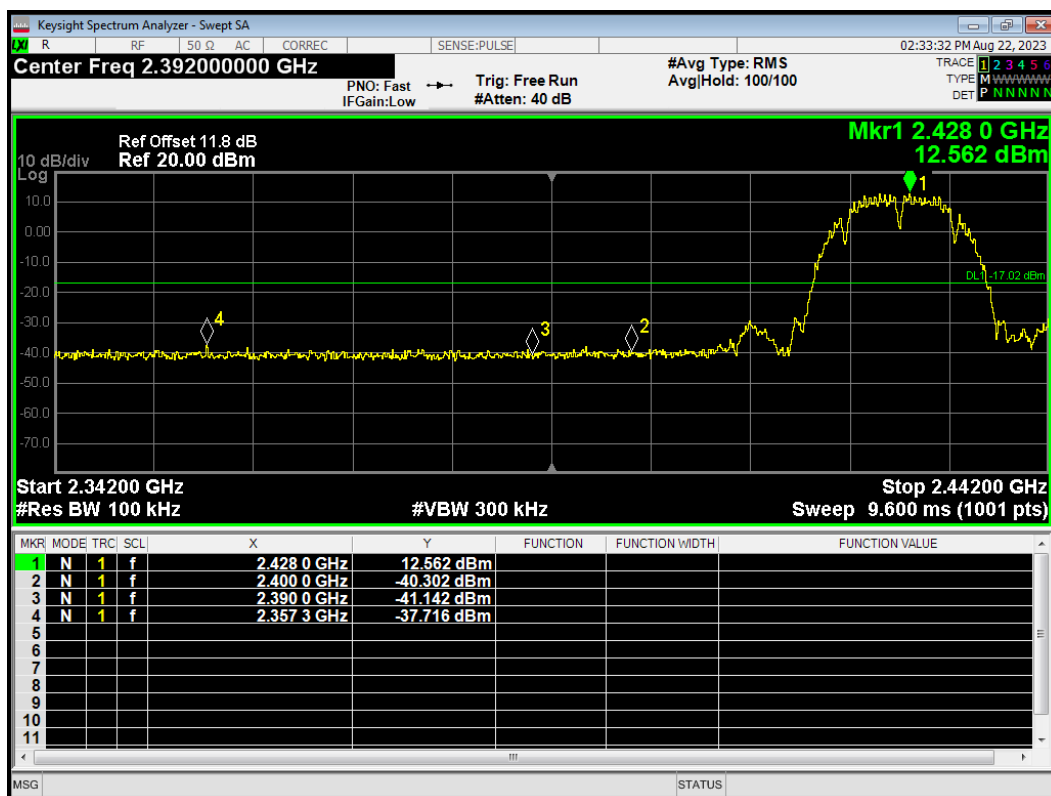
Band Edge 802.11b 2422MHz Emission



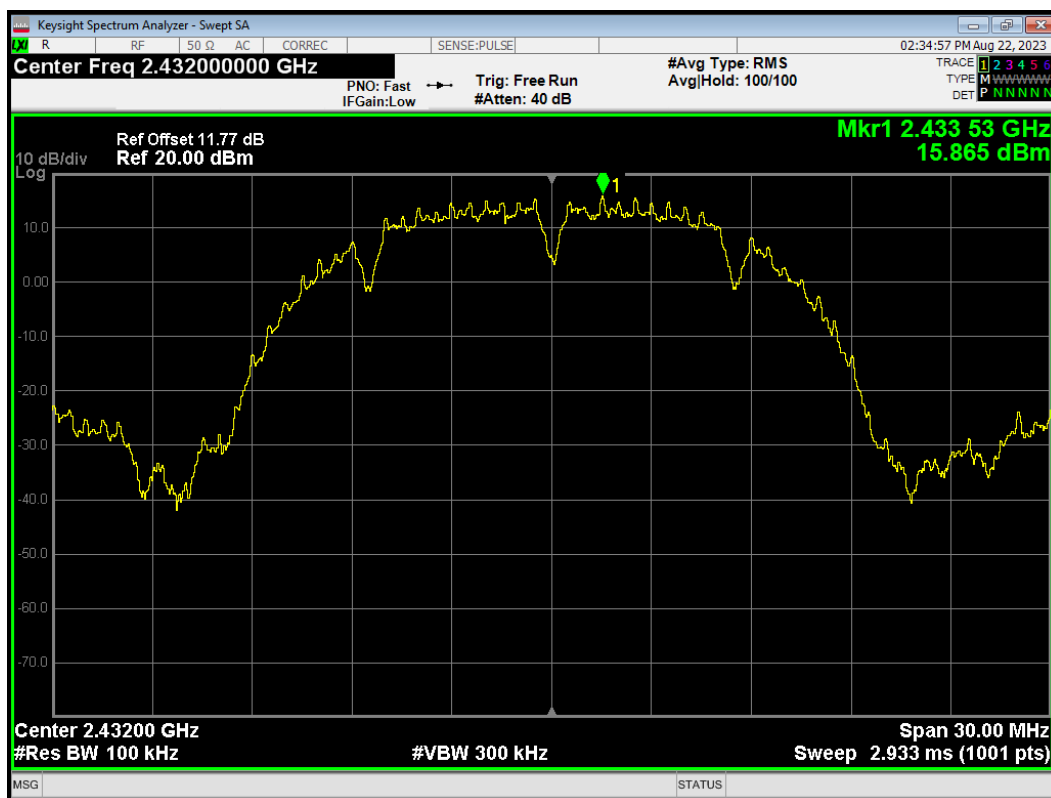
Band Edge 802.11b 2427MHz Ref



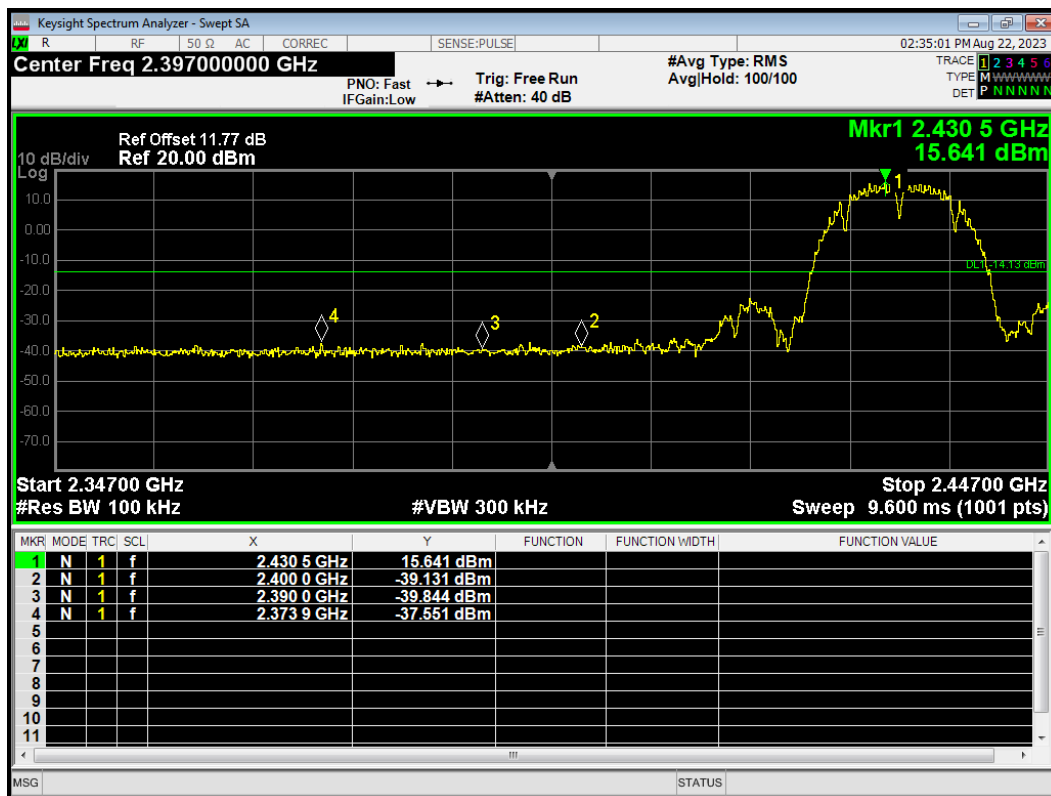
Band Edge 802.11b 2427MHz Emission



Band Edge 802.11b 2432MHz Ref



Band Edge 802.11b 2432MHz Emission



Band Edge 802.11b 2442MHz Ref



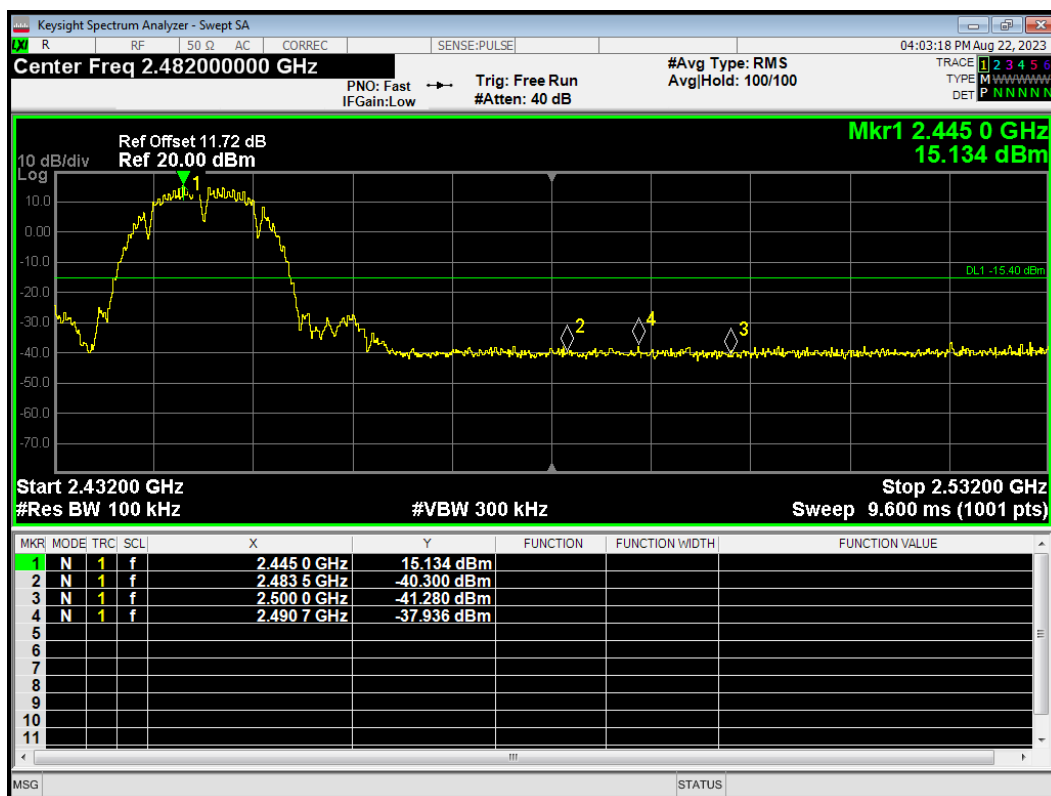
Band Edge 802.11b 2442MHz Emission



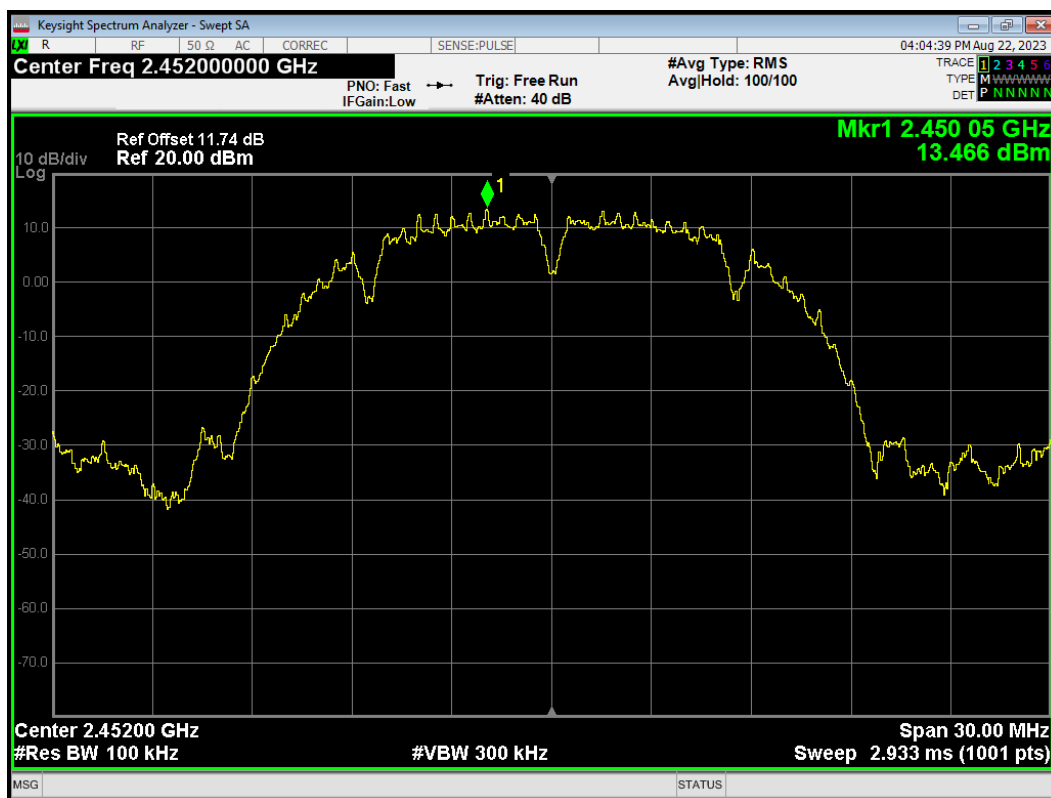
Band Edge 802.11b 2447MHz Ref



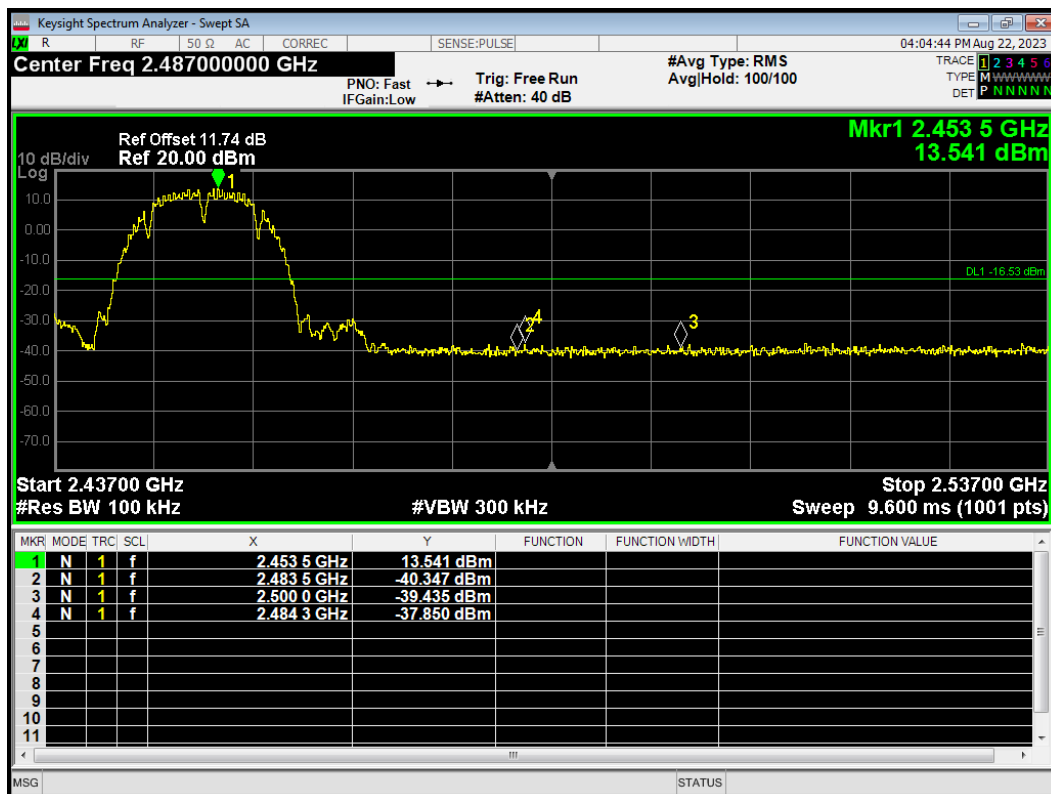
Band Edge 802.11b 2447MHz Emission



Band Edge 802.11b 2452MHz Ref



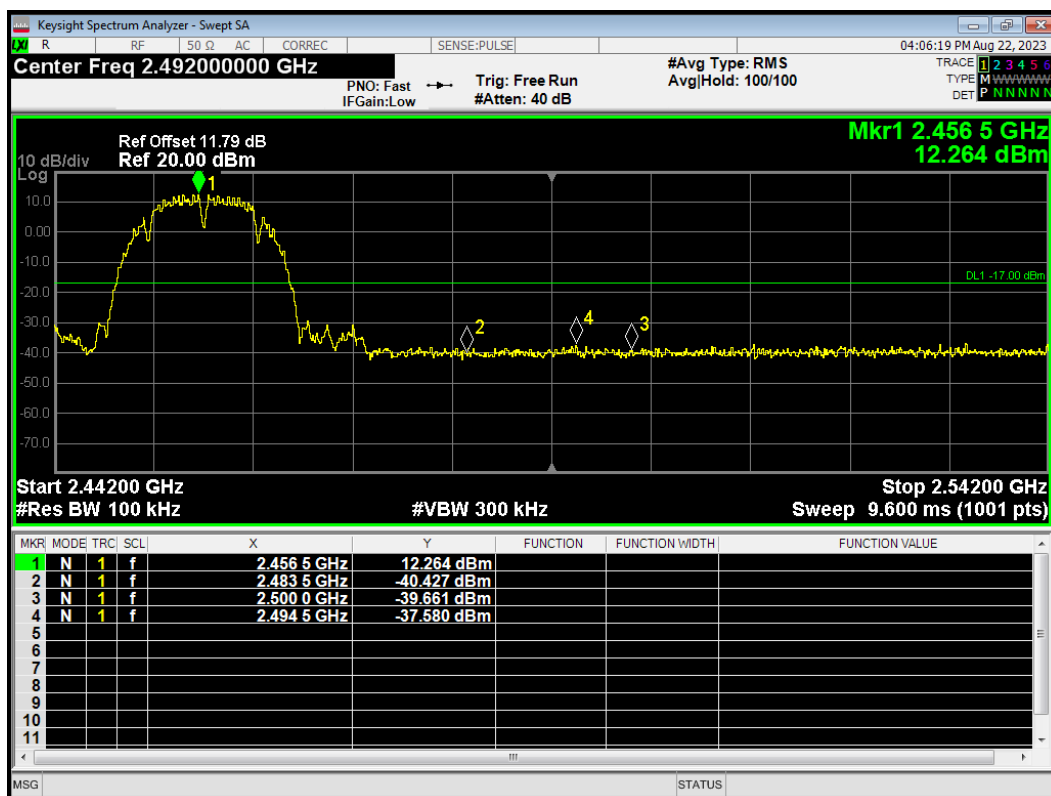
Band Edge 802.11b 2452MHz Emission



Band Edge 802.11b 2457MHz Ref



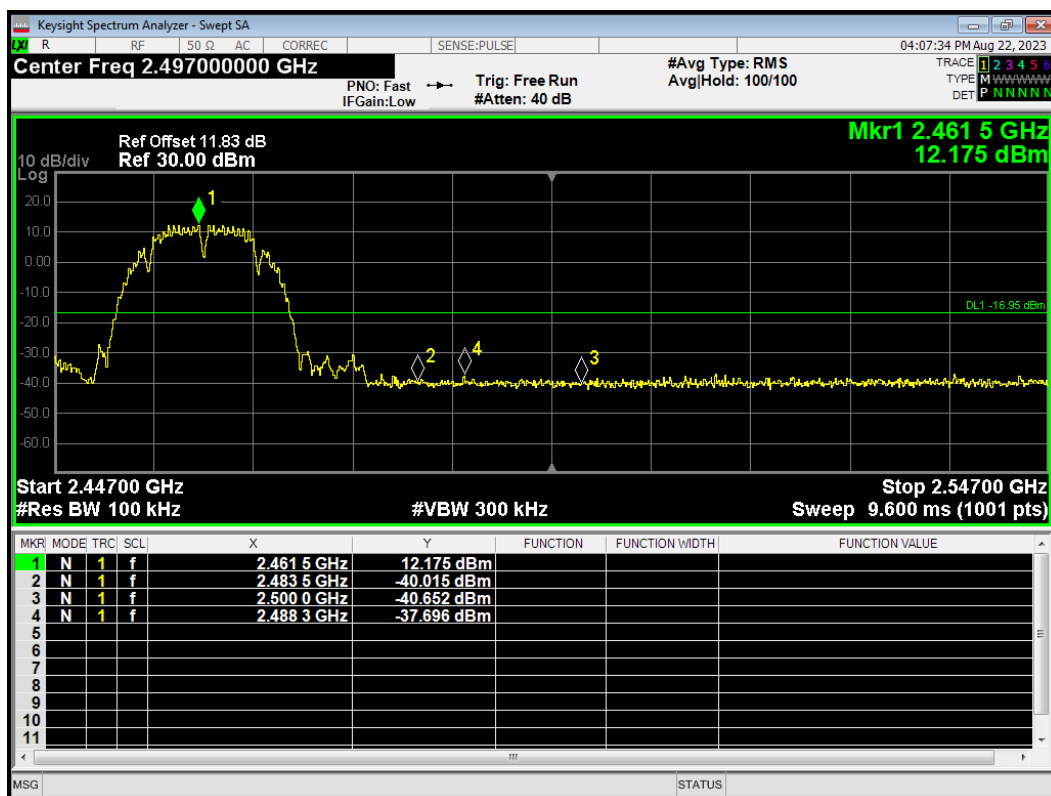
Band Edge 802.11b 2457MHz Emission



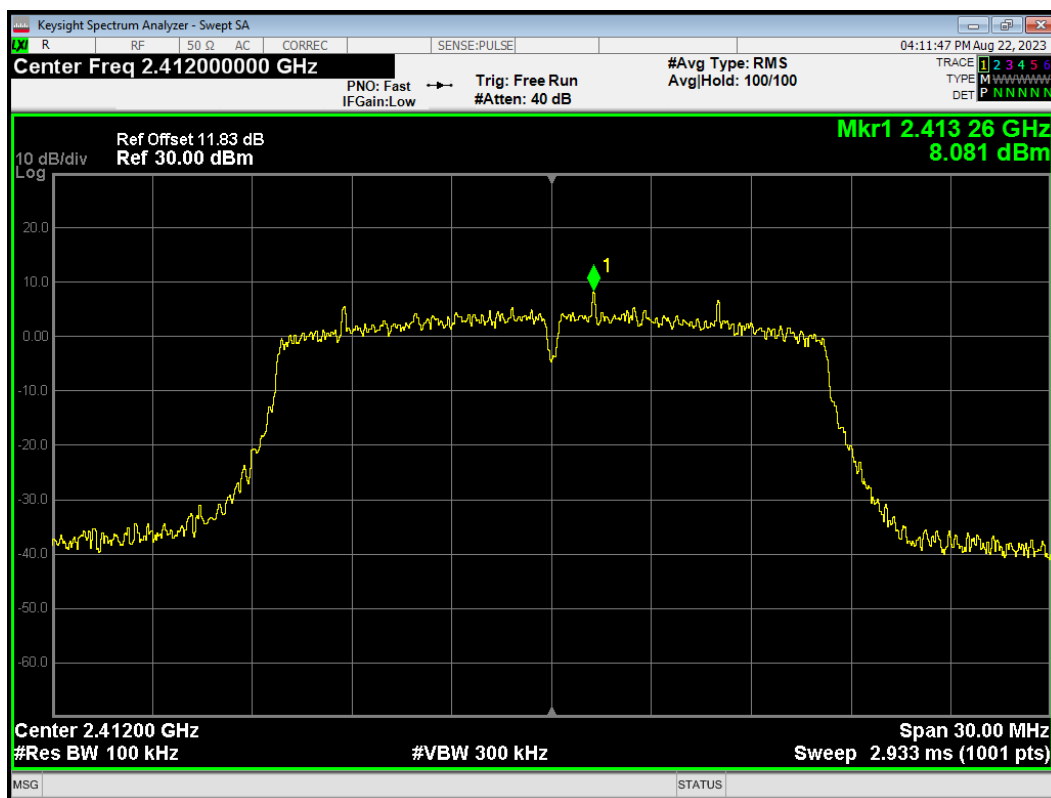
Band Edge 802.11b 2462MHz Ref



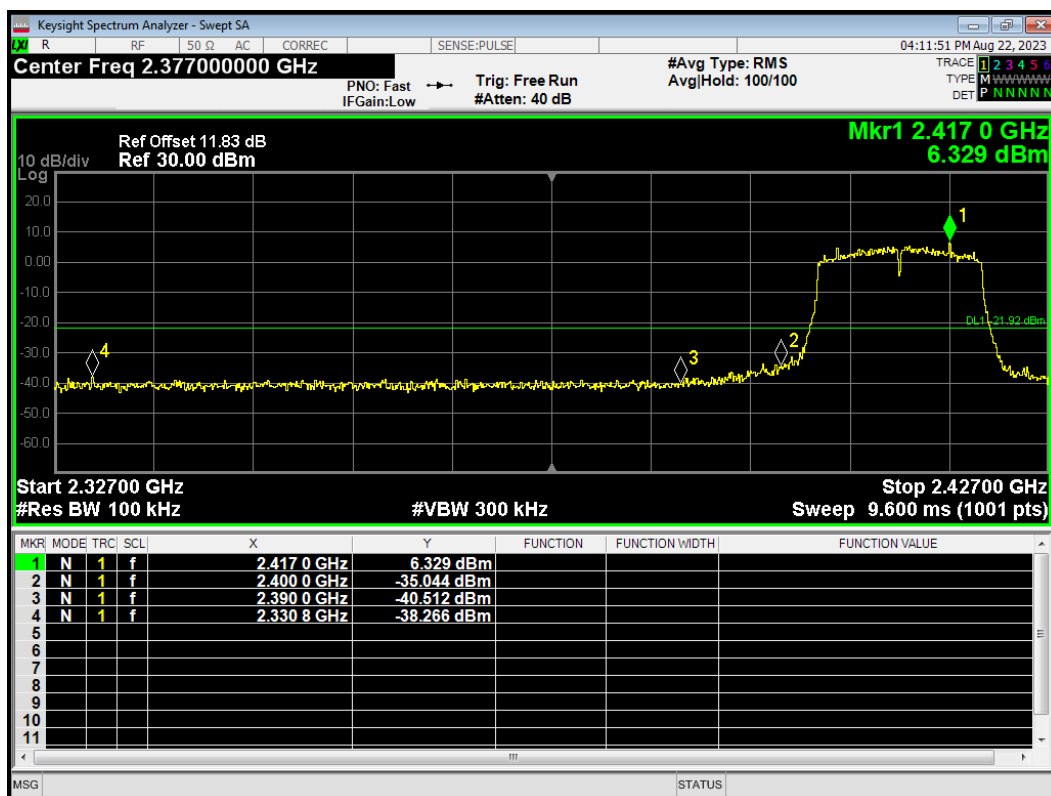
Band Edge 802.11b 2462MHz Emission



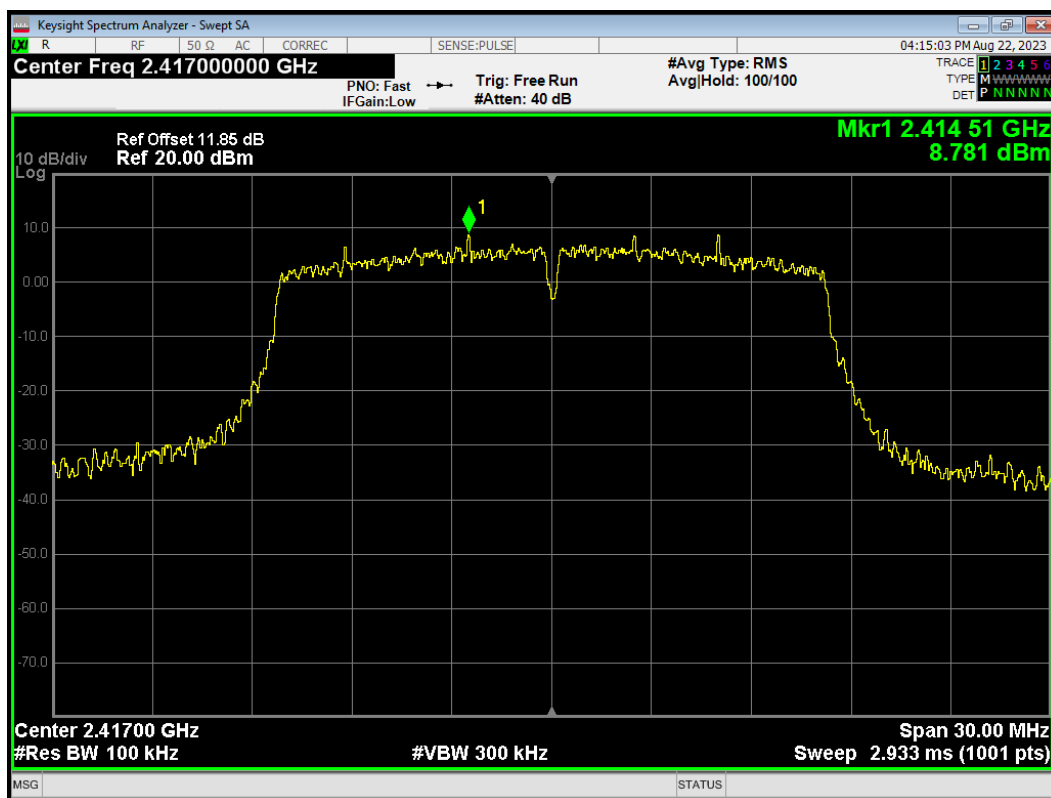
Band Edge 802.11g 2412MHz Ref



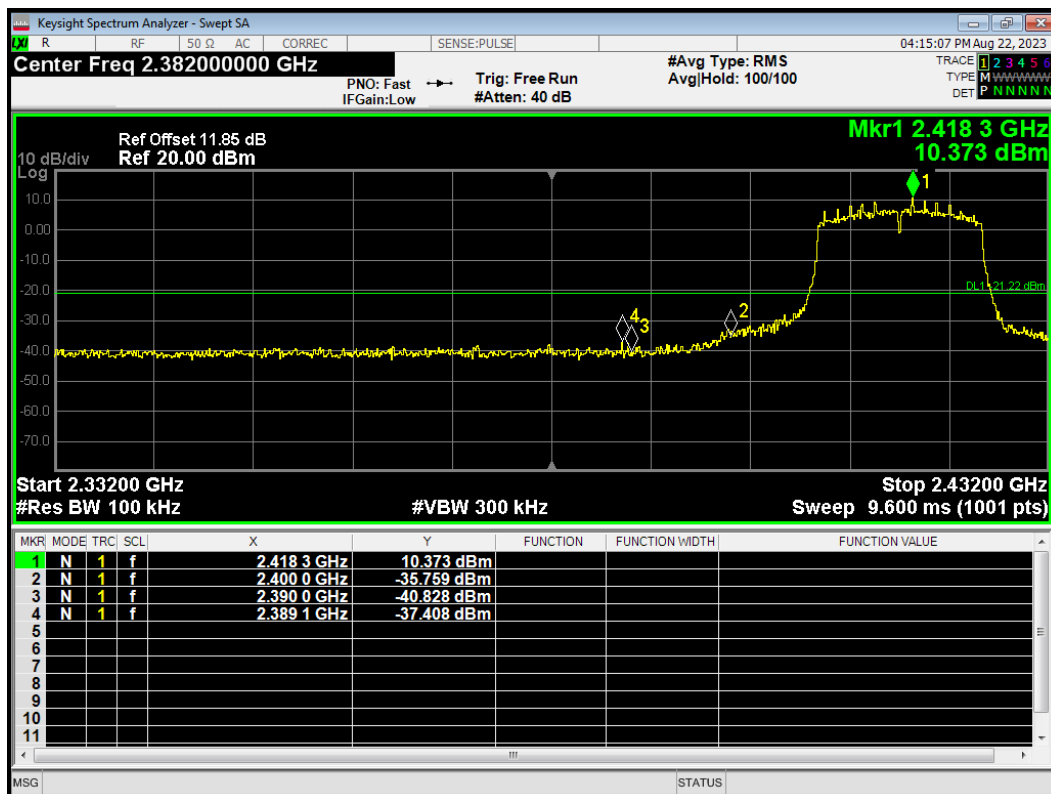
Band Edge 802.11g 2412MHz Emission



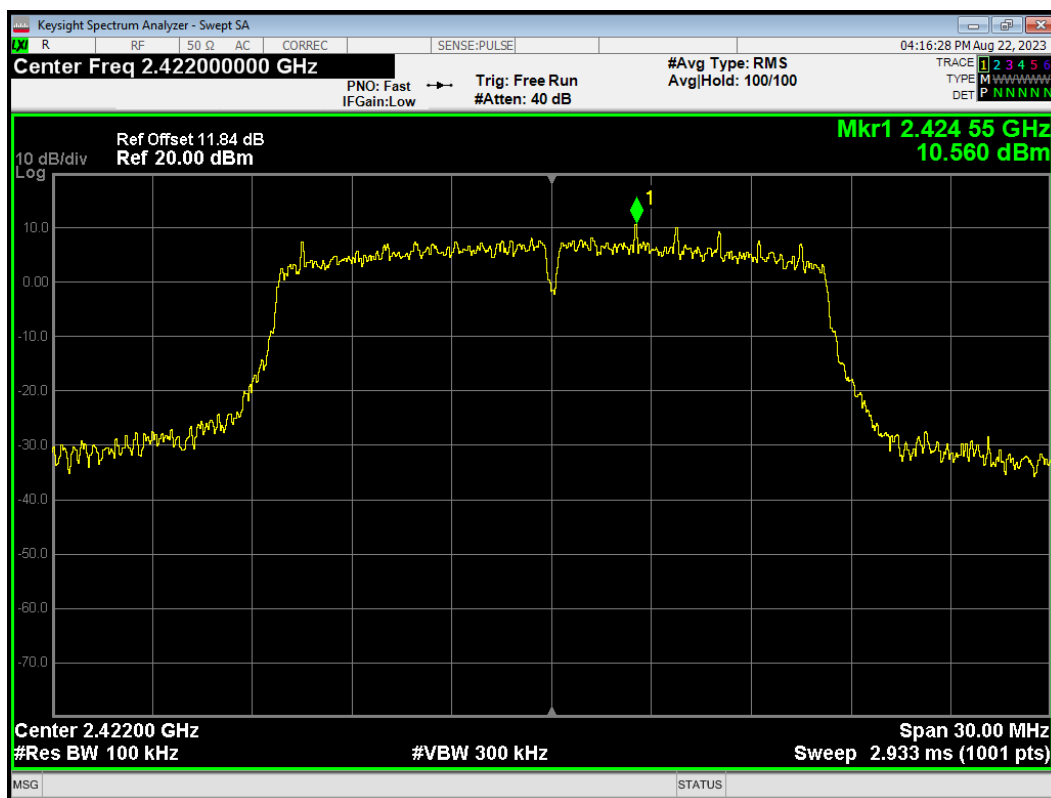
Band Edge 802.11g 2417MHz Ref



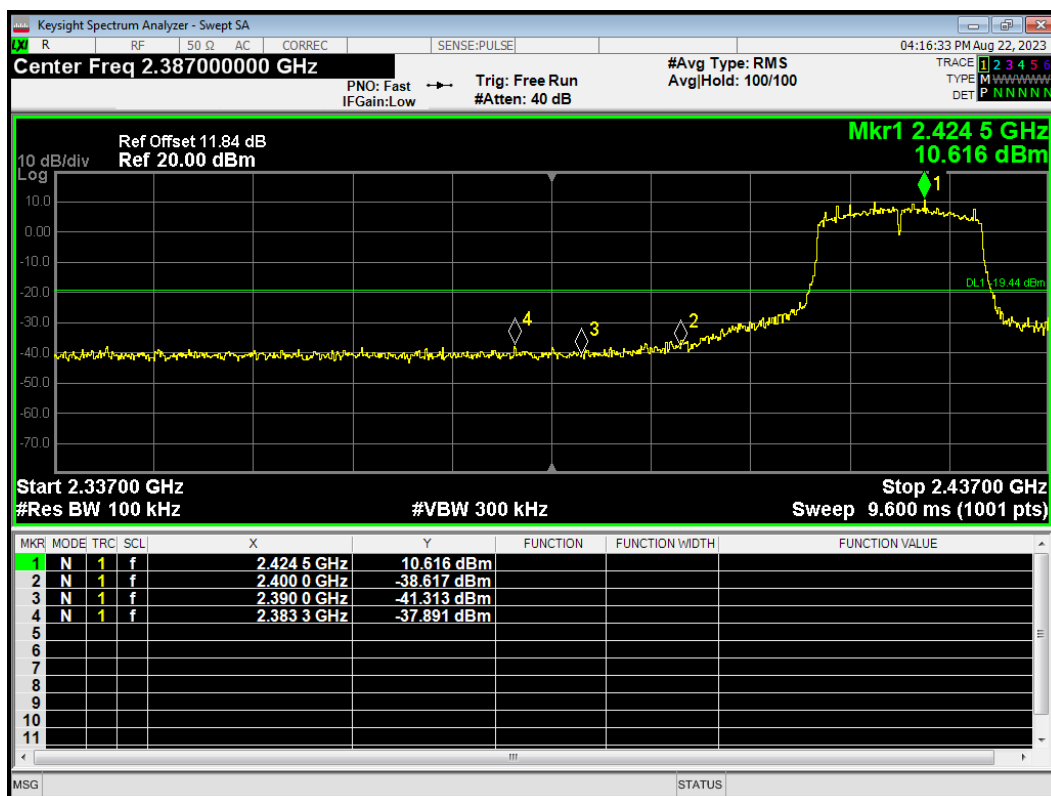
Band Edge 802.11g 2417MHz Emission



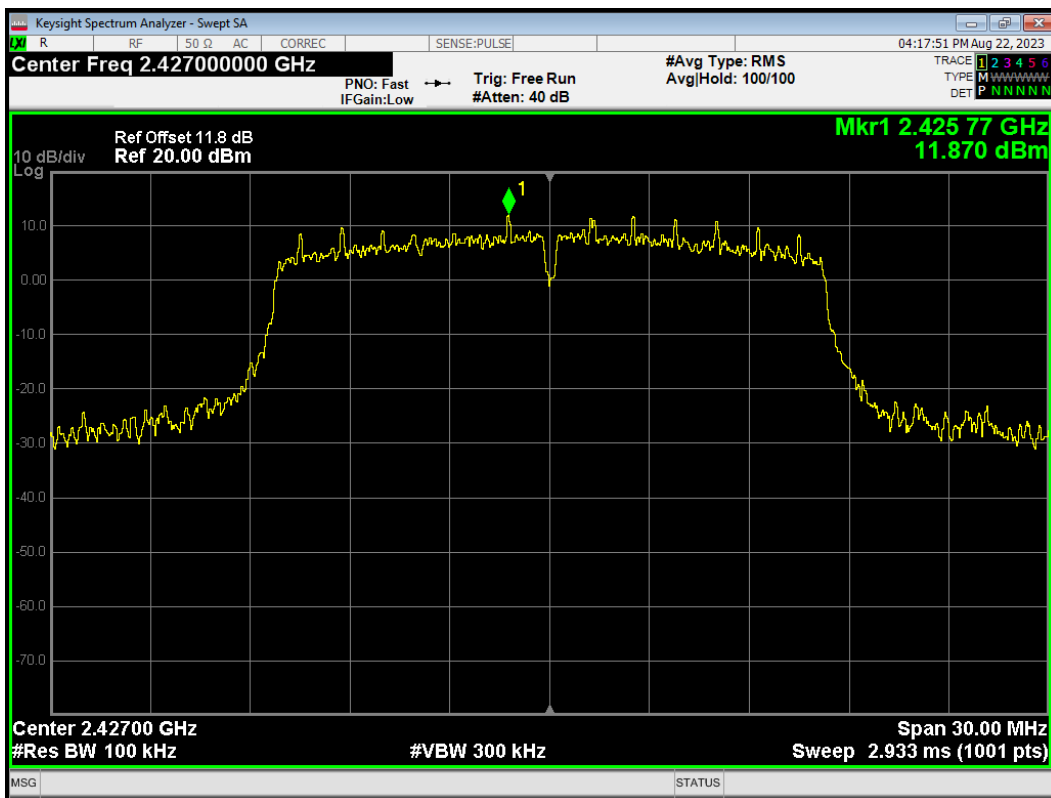
Band Edge 802.11g 2422MHz Ref



Band Edge 802.11g 2422MHz Emission



Band Edge 802.11g 2427MHz Ref



Band Edge 802.11g 2427MHz Emission

