

RF TEST REPORT

For

Dongguanshixunpinkejiyouxiangongsi

Product Name: 3 Channel Dash Cam

Test Model(s): TS126

Report Reference No. : DACE260908001RF001

FCC ID : 2BX7K-TS126

Applicant's Name : Dongguanshixunpinkejiyouxiangongsi

Address : Room3306, Building6, DongchengWandaPlaza, #208 Dongzhong Road,
Dongguan, Guangdong, China

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,
Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,
Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : September 8, 2026

Date of Test : September 8, 2026 to September 11, 2026

Date of Issue : September 11, 2026

Result : **Pass**

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Apply for company information

Applicant's Name	:	Dongguanshixunpinkejiyouxiangongsi
Address	:	Room3306, Building6, DongchengWandaPlaza, #208 Dongzhong Road, Dongguan, Guangdong, China
Product Name	:	3 Channel Dash Cam
Test Model(s)	:	TS126
Test Specification Standard(s)	:	47 CFR Part 15.247

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

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Lucy Mo / Test Engineer

September 11, 2026

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Arron Liu / Project Engineer

September 11, 2026

Approved by:

Tom Chen

Tom Chen / Manager

September 11, 2026

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE260908001RF001	September 11, 2026

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.247	---	47 CFR 15.203	Pass
6dB Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a- 2024 + Errata to C63.10a-2024, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a- 2024 + Errata to C63.10a-2024 section 11.9.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a- 2024 + Errata to C63.10a-2024, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a- 2024 + Errata to C63.10a-2024 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a- 2024 + Errata to C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a- 2024 + Errata to	47 CFR 15.247(d), 15.209, 15.205	Pass

		C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Dongguanshixunpinkejyoxiangongsi
Address : Room3306, Building6, DongchengWandaPlaza, #208 Dongzhong Road, Dongguan, Guangdong, China

Manufacturer : Dongguan Chuangtong International Technology Co., Ltd.
Address : No. 801, 75 Xiangfeng Street, Dalingshan Town, Dongguan City, Guangdong Province

2.2 Description of Device (EUT)

Product Name:	3 Channel Dash Cam
Model/Type reference:	TS126
Trade Mark:	TERSOLVIAN
Power Supply:	DC 12V
Operation Frequency:	2412-2462MHz
Number of Channels:	IEEE 802.11b/g/n(HT20)/ax(HE20): 11 Channels; IEEE 802.11n(HT40)/ax(HE40): 7 Channels
Modulation Type:	DSSS, OFDM, OFDMA
Antenna Type:	Ceramic Antenna
Antenna Gain:	3dBi
Hardware Version:	V1.0
Software Version:	V1.0

2.3 Description of Test Modes

No	Title	Description
TM1	2.4GWIFI TX Mode	Keep the EUT in TX mode
Test Environment		Normal Voltage(DC): 12V

2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
Battery	Camel	DC12V	/

2.5 Operation Frequency each of channel

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	/	/

Note: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	802.11b/g/n(HT20)/ax20(HE20)	802.11n(HT40)/ax40(HE40)
	Frequency (MHz)	Frequency (MHz)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

2.6 Equipments Used During The Test

6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information Technology(she n zhen) Co.,Ltd.	RTS-01	V1.0.0	/	/
RF Power Sensor Unit	Tachoy Information Technology(she n zhen) Co.,Ltd.	TR1029-2	20220428P005	/	/
Wideband radio communication tester	R&S	CMW500	113410	2026-04-14	2027-04-13
Signal Generator	Keysight	N5181A	MY50143455	2025-12-02	2026-12-01
Vector Signal Generator	Keysight	N5182A	MY48180415	2025-12-02	2026-12-01
Spectrum Analyzer	Keysight	N9020A	MY53420323	2025-12-02	2026-12-01
RF Control Unit	Tachoy Information Technology(she n zhen) Co.,Ltd.	TR1029-1	20220428C005	/	/

Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	FA-03A2 RE+	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2026-04-14	2027-04-13
Cable(LF)#2	Schwarzbeck	/	/	2026-04-13	2027-04-12
Cable(LF)#1	Schwarzbeck	/	/	2026-04-14	2027-04-13
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2026-04-14	2027-04-13
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2026-04-14	2027-04-13
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2026-04-14	2027-04-13
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2026-04-14	2027-04-13
Wideband radio communication tester	R&S	CMW500	113410	2026-04-14	2027-04-13
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2026-04-14	2027-04-13
Test Receiver	R&S	ESCI 3	1166.5950K03-101431-Jq	2026-04-14	2027-04-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2026-04-14	2027-04-13
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2026-04-29	2028-04-28

2.7 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Occupied Bandwidth	$\pm 3.63\%$
RF conducted power	$\pm 0.733\text{dB}$
RF power density	$\pm 0.234\%$
Conducted Spurious emissions	$\pm 1.98\text{dB}$
Radiated Emission (Above 1GHz)	$\pm 5.46\text{dB}$
Radiated Emission (Below 1GHz)	$\pm 5.79\text{dB}$

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Test Method:	---

3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

4.1 6dB Bandwidth

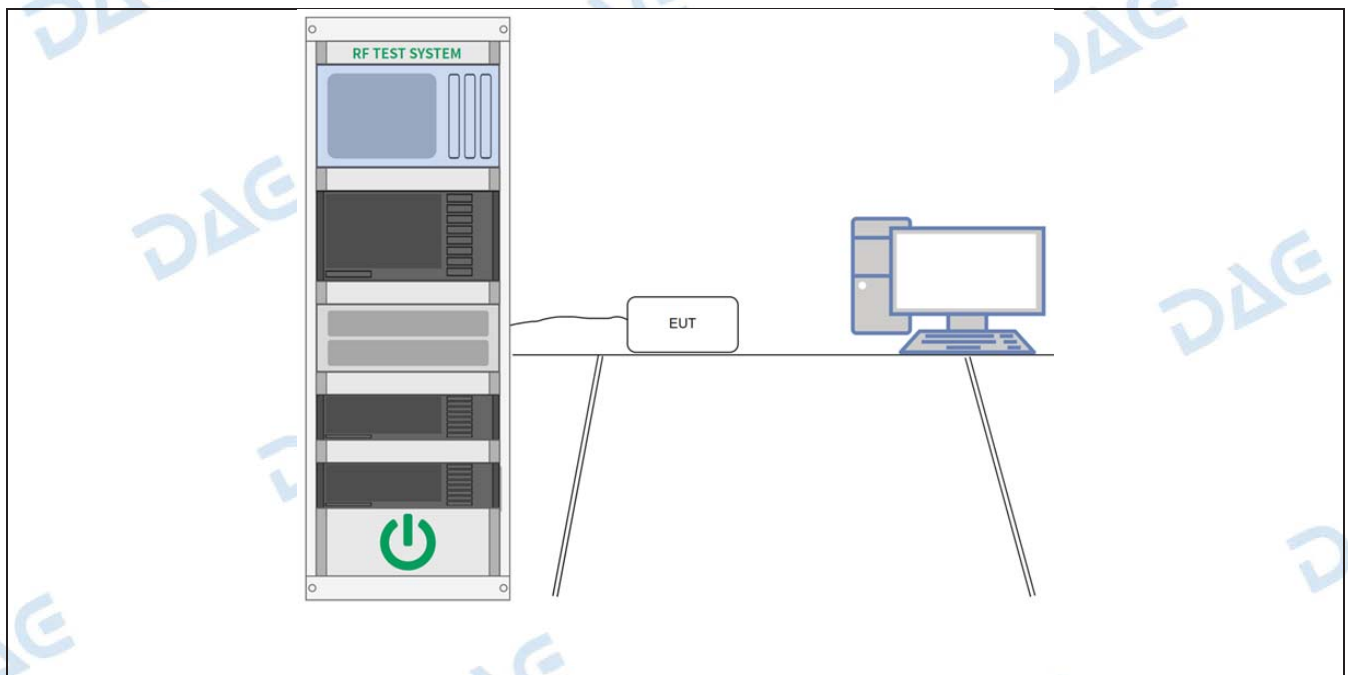
Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

4.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.2 °C	Humidity:	48 %	Atmospheric Pressure:	101.2 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.1.2 Test Setup Diagram:

--



4.1.3 Test Data:

Please Refer to Appendix for Details.

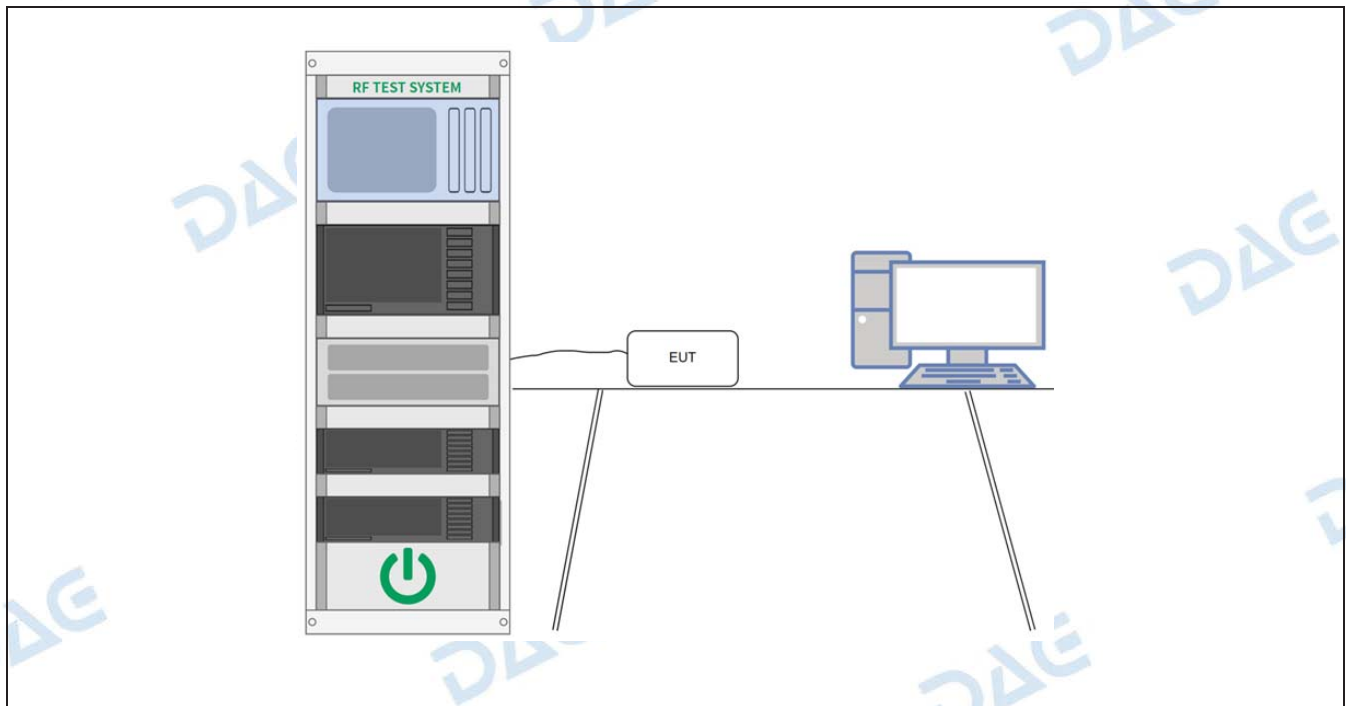
4.2 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.2 Maximum conducted (average) output power

4.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55 %	Atmospheric Pressure:	101.2 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

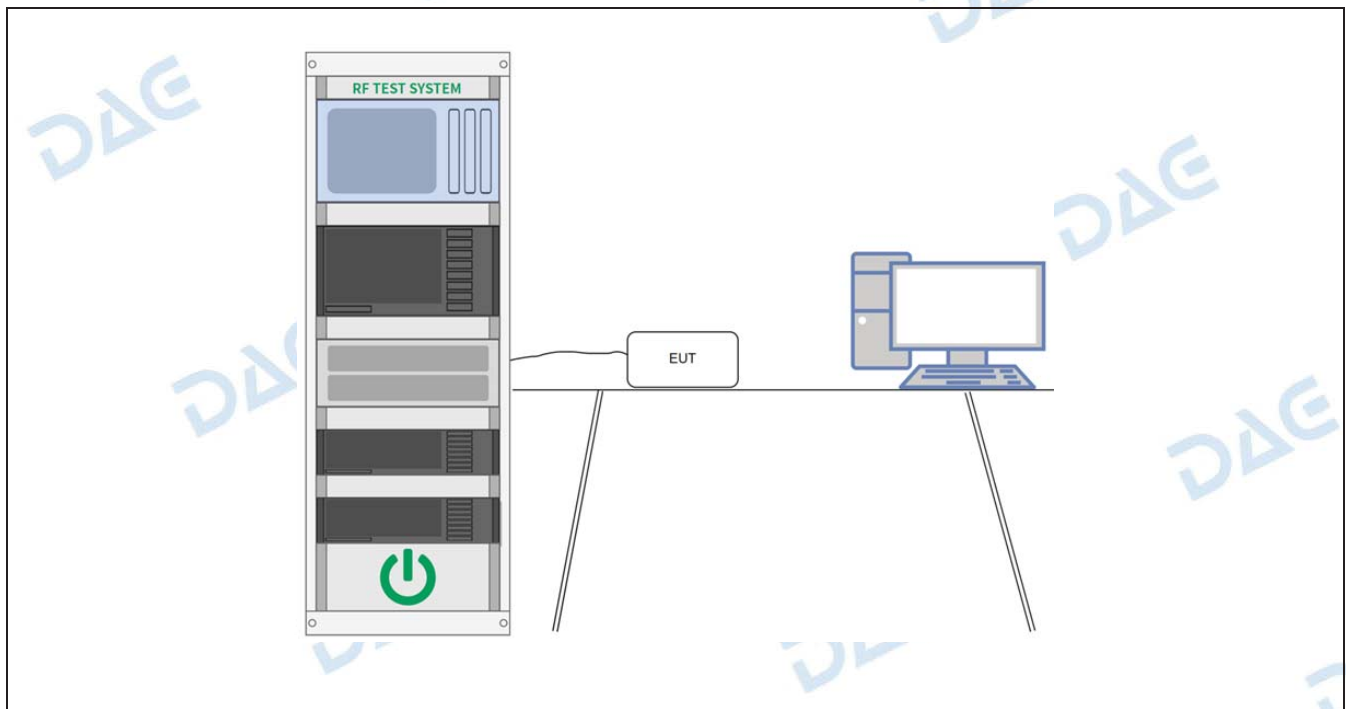
4.3 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10, Maximum power spectral density level in the fundamental emission

4.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	55 %	Atmospheric Pressure:	101.2 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

Please Refer to Appendix for Details.

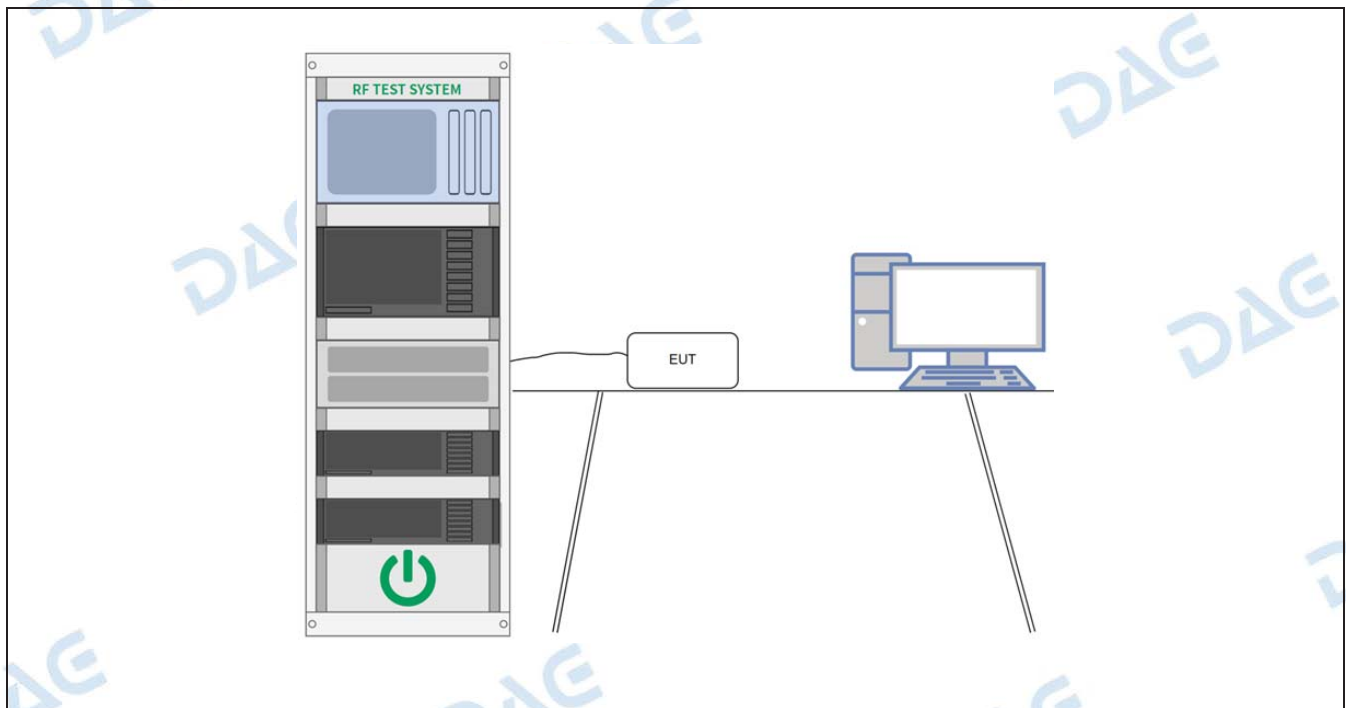
4.4 Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), 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. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	22.7 °C	Humidity:	48 %	Atmospheric Pressure:	101.2 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

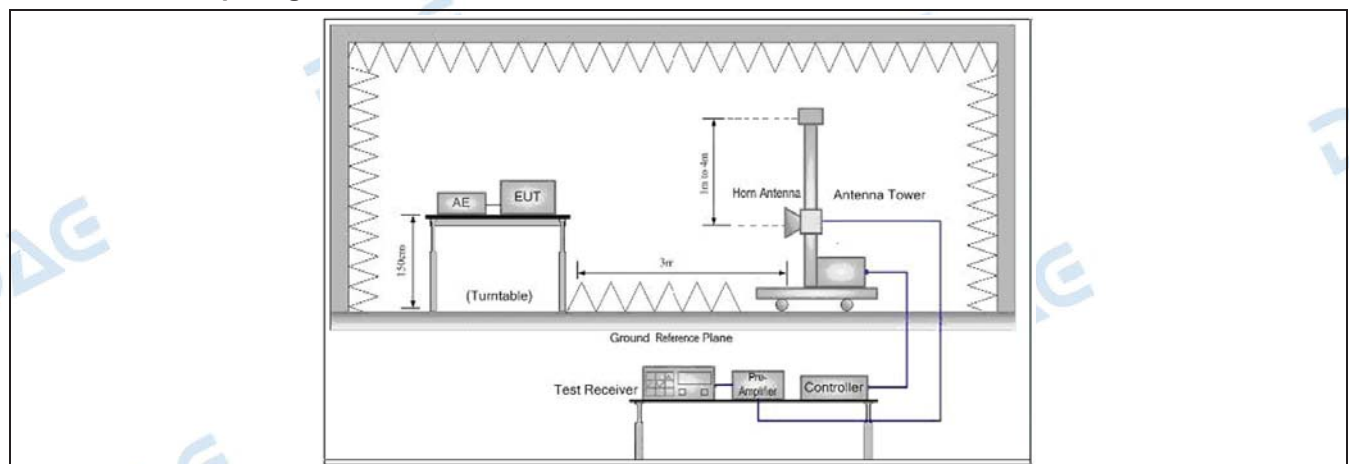
4.5 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2		

4.5.1 E.U.T. Operation:

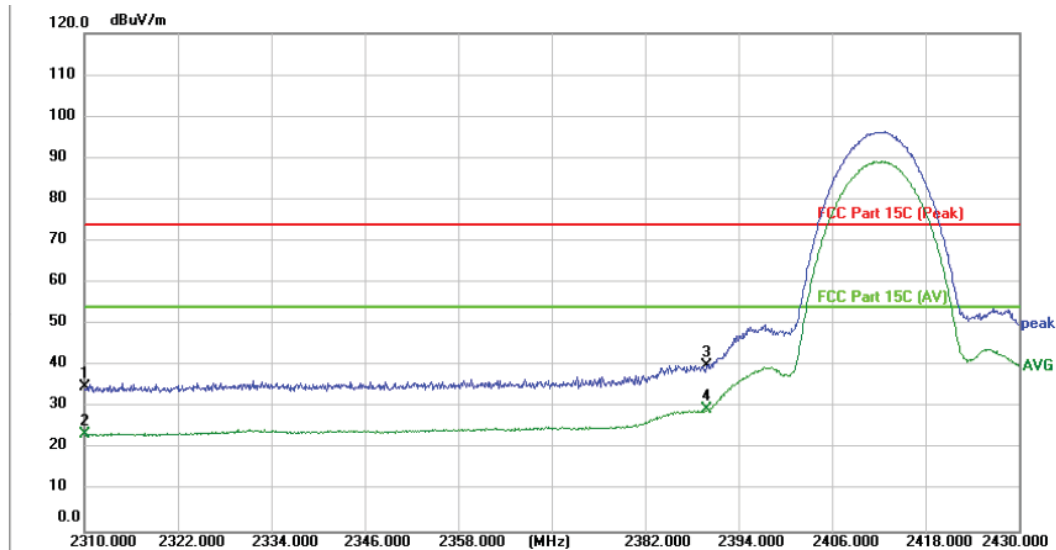
Operating Environment:			
Temperature:	22.9 °C	Humidity:	51 %
Atmospheric Pressure:	101.2 kPa		
Pretest mode:	TM1		
Final test mode:	TM1		

4.5.2 Test Setup Diagram:



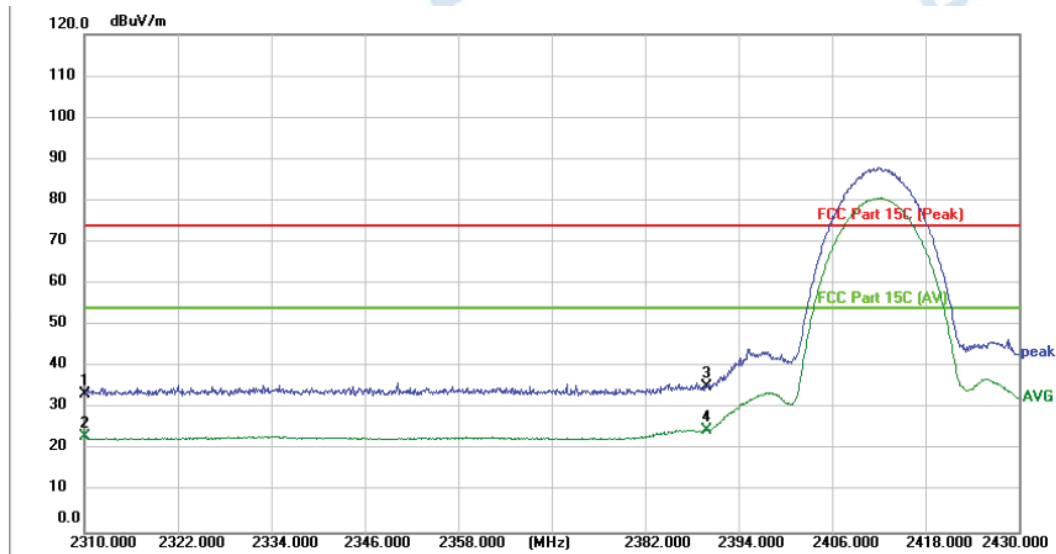
4.5.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



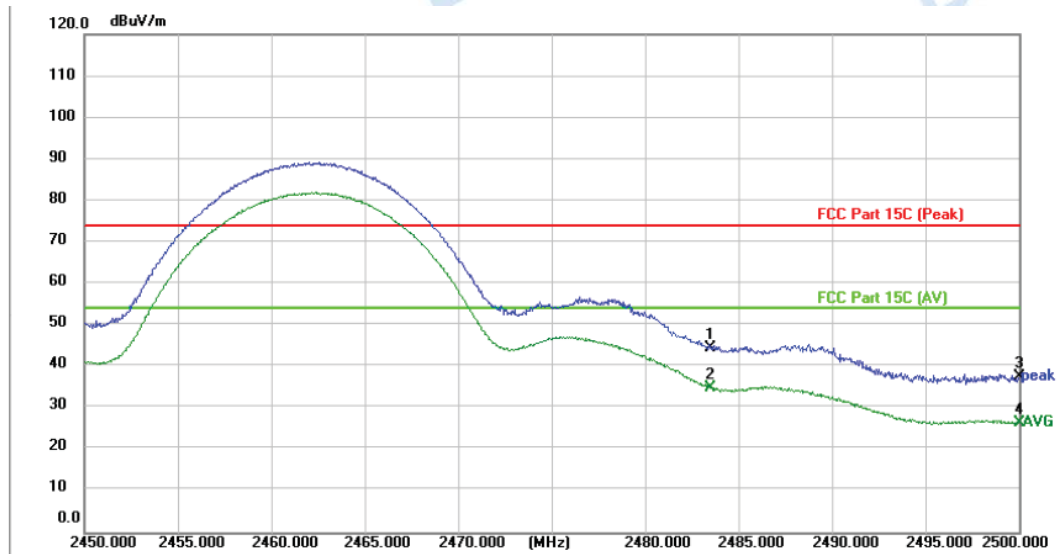
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	2310.000	41.69	-6.85	34.84	74.00	-39.16	peak		P	
2	2310.000	30.35	-6.85	23.50	54.00	-30.50	AVG		P	
3	2390.000	46.62	-6.69	39.93	74.00	-34.07	peak		P	
4 *	2390.000	36.18	-6.69	29.49	54.00	-24.51	AVG		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



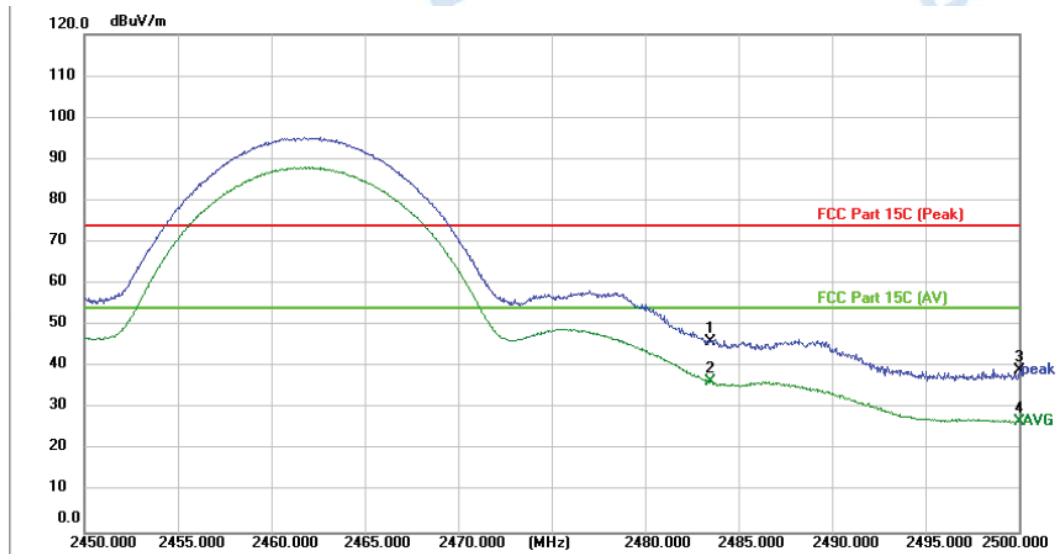
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	2310.000	40.41	-6.85	33.56	74.00	-40.44	peak			P	
2	2310.000	30.07	-6.85	23.22	54.00	-30.78	AVG			P	
3	2390.000	41.91	-6.69	35.22	74.00	-38.78	peak			P	
4 *	2390.000	31.48	-6.69	24.79	54.00	-29.21	AVG			P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	2483.500	51.07	-6.51	44.56	74.00	-29.44	peak			P	
2 *	2483.500	41.45	-6.51	34.94	54.00	-19.06	AVG			P	
3	2500.000	44.02	-6.48	37.54	74.00	-36.46	peak			P	
4	2500.000	32.89	-6.48	26.41	54.00	-27.59	AVG			P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	2483.500	52.52	-6.51	46.01	74.00	-27.99	peak			P	
2 *	2483.500	42.85	-6.51	36.34	54.00	-17.66	AVG			P	
3	2500.000	45.75	-6.48	39.27	74.00	-34.73	peak			P	
4	2500.000	33.24	-6.48	26.76	54.00	-27.24	AVG			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be of 802.11b mode recorded in the test report.

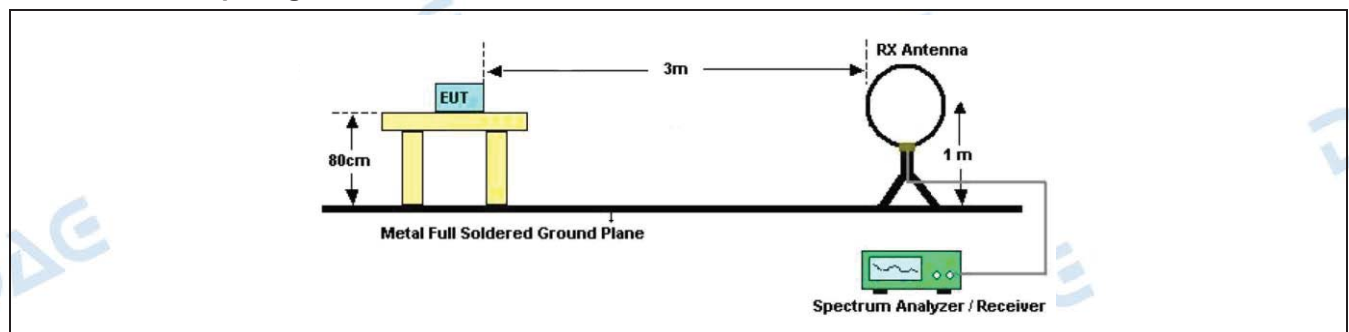
4.6 Emissions in frequency bands (below 1GHz)

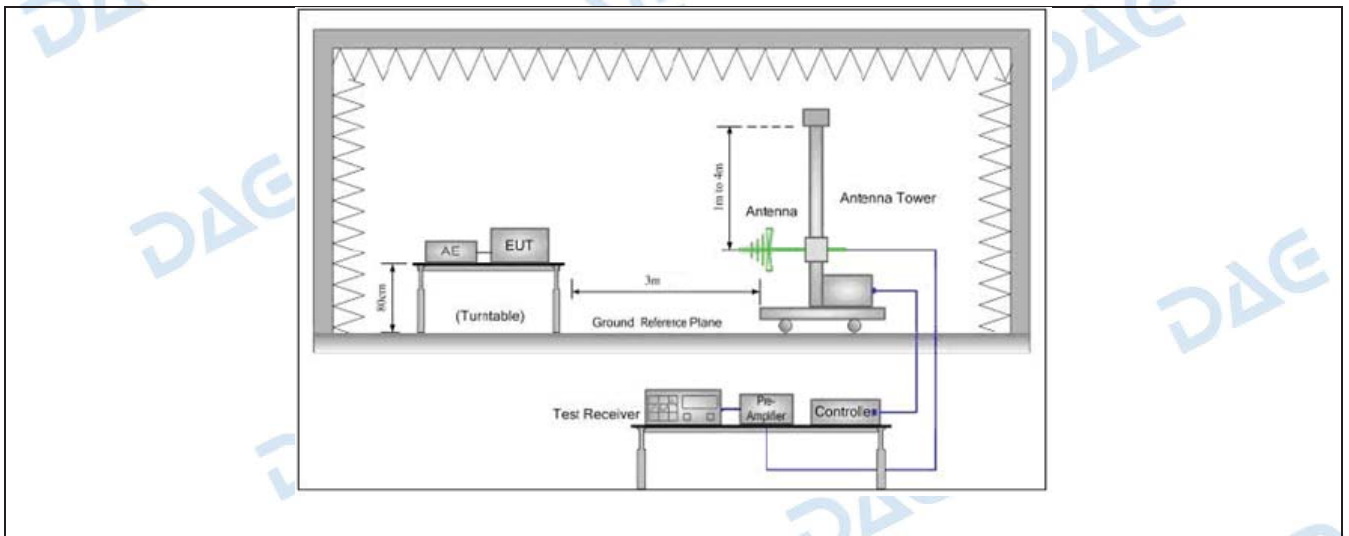
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4		

4.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.6 °C	Humidity:	54 %
Atmospheric Pressure:	101.2 kPa		
Pretest mode:	TM1		
Final test mode:	TM1		

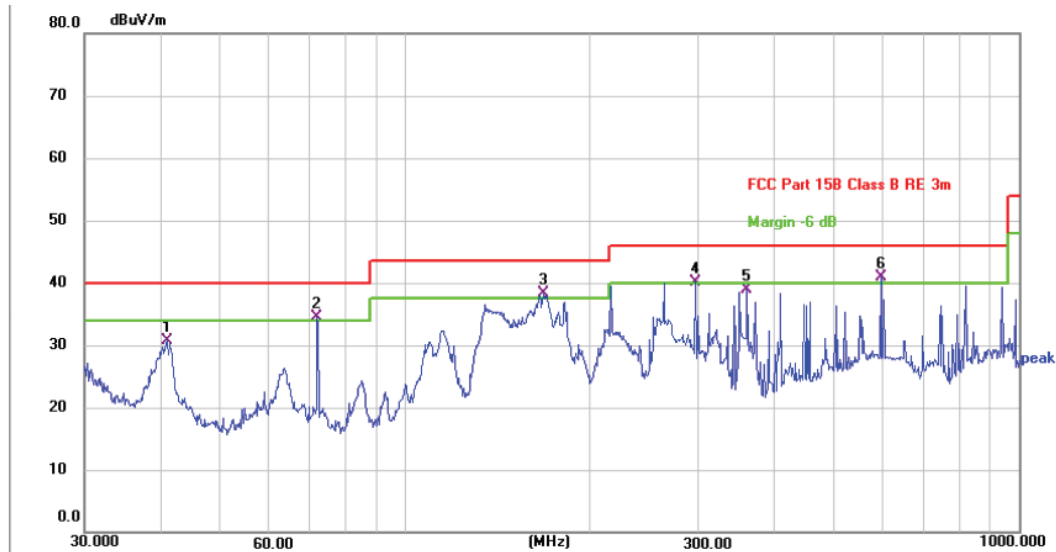
4.6.2 Test Setup Diagram:





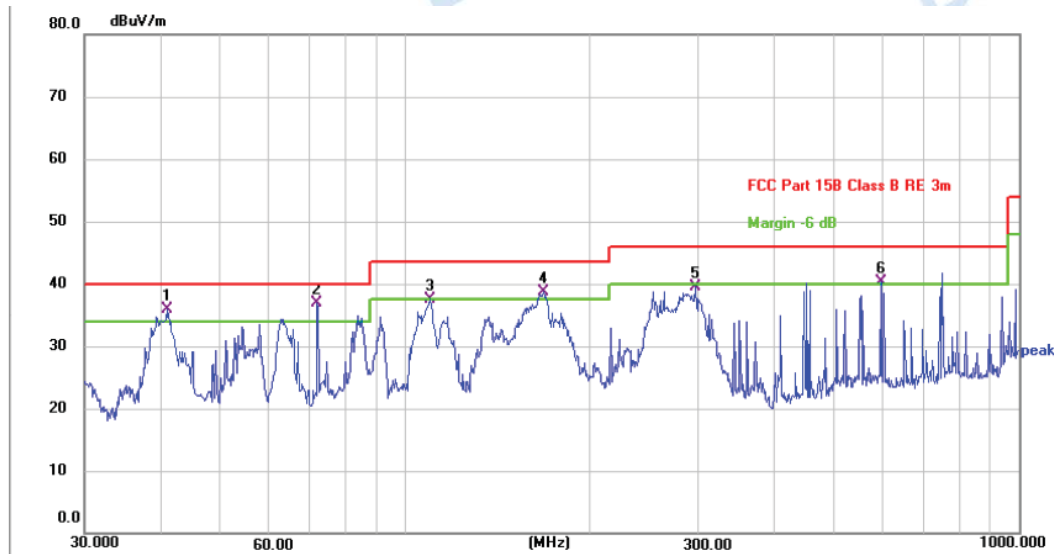
4.6.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.8444	38.54	-7.77	30.77	40.00	-9.23	QP			P	
2 !	71.8320	48.01	-13.53	34.48	40.00	-5.52	QP			P	
3 !	167.8241	47.84	-9.63	38.21	43.50	-5.29	QP			P	
4 !	297.2240	46.75	-6.64	40.11	46.00	-5.89	QP			P	
5	360.4476	44.12	-5.14	38.98	46.00	-7.02	QP			P	
6 *	595.1327	40.87	-0.02	40.85	46.00	-5.15	QP			P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 !	40.8444	43.73	-7.77	35.96	40.00	-4.04	QP			P	
2 *	71.8320	50.35	-13.53	36.82	40.00	-3.18	QP			P	
3 !	109.7960	48.25	-10.70	37.55	43.50	-5.95	QP			P	
4 !	167.8241	48.41	-9.63	38.78	43.50	-4.72	QP			P	
5	297.2240	46.06	-6.64	39.42	46.00	-6.58	QP			P	
6 !	595.1327	40.32	-0.02	40.30	46.00	-5.70	QP			P	

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be of 802.11b mode recorded in the test report.

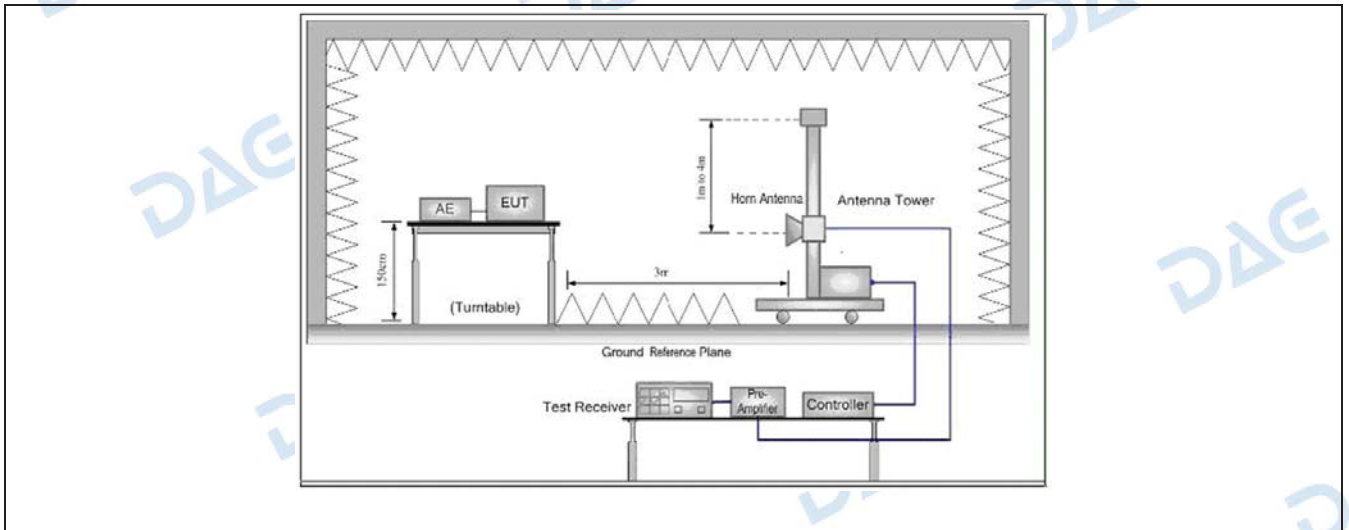
4.7 Emissions in frequency bands (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4		

4.7.1 E.U.T. Operation:

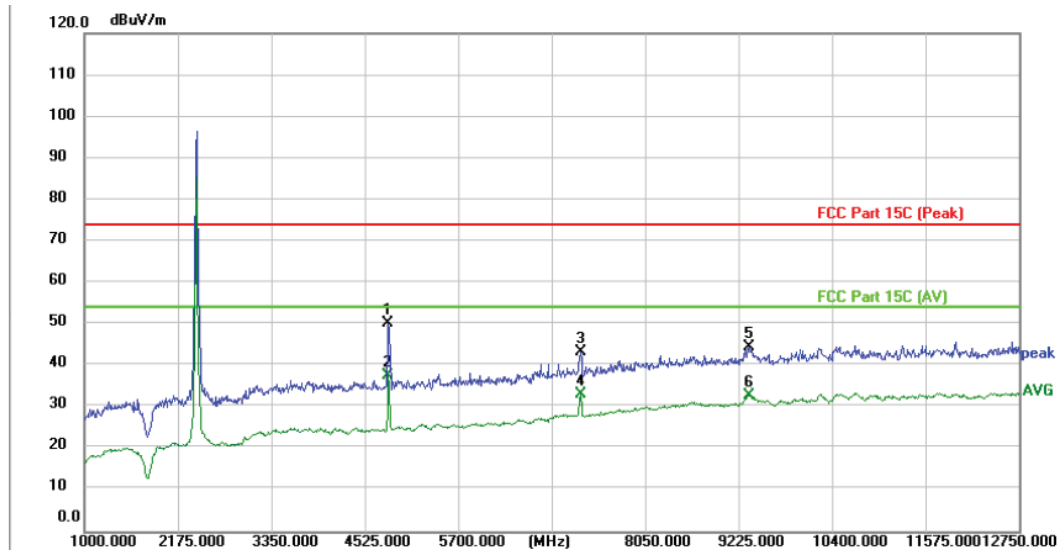
Operating Environment:					
Temperature:	22.8 °C	Humidity:	54 %	Atmospheric Pressure:	101.2 kPa
Pretest mode:		TM1			
Final test mode:		TM1			

4.7.2 Test Setup Diagram:



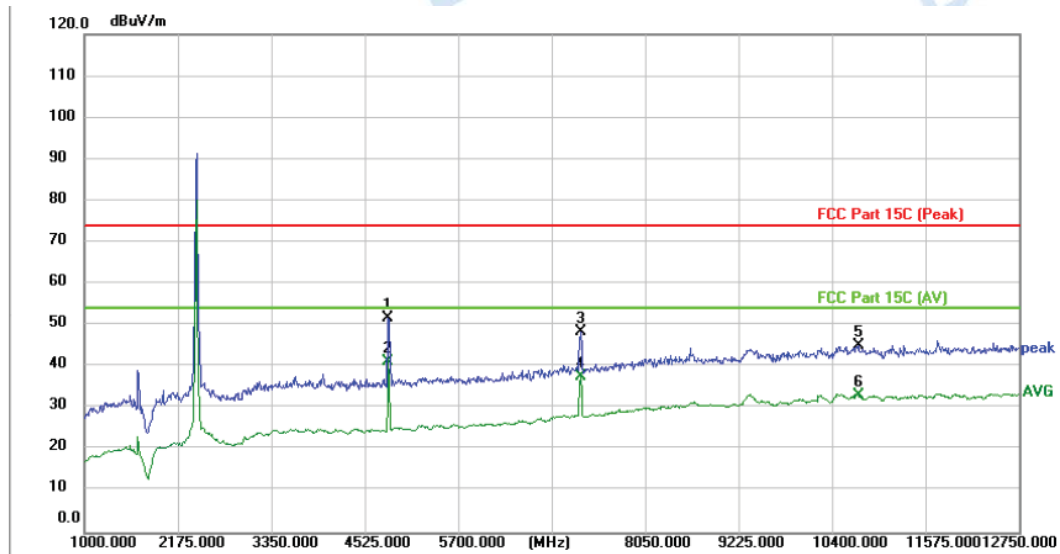
4.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



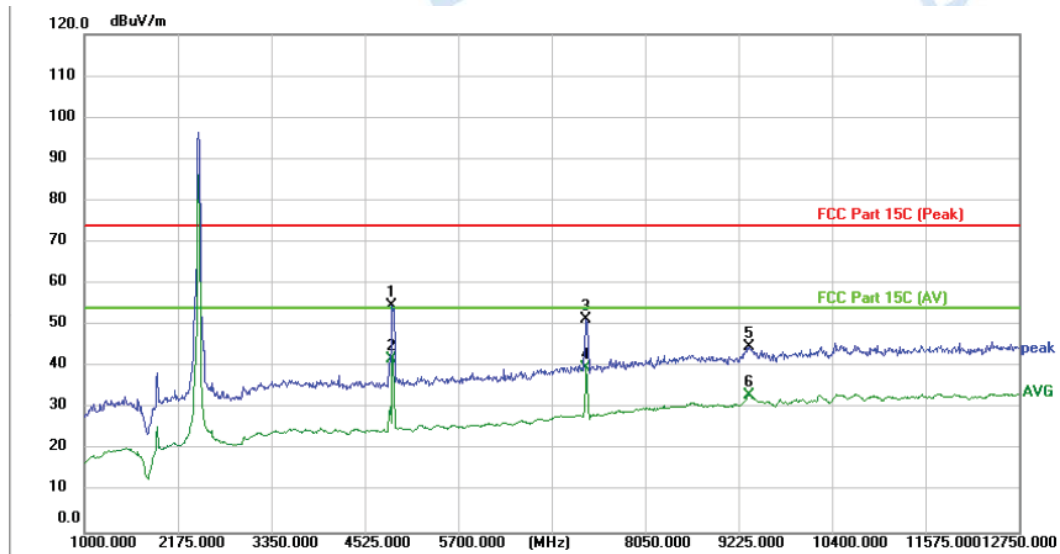
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	4818.750	51.49	-1.28	50.21	74.00	-23.79	peak		P	
2 *	4818.750	39.06	-1.28	37.78	54.00	-16.22	AVG		P	
3	7239.250	39.71	3.61	43.32	74.00	-30.68	peak		P	
4	7239.250	29.47	3.61	33.08	54.00	-20.92	AVG		P	
5	9354.250	37.69	6.80	44.49	74.00	-29.51	peak		P	
6	9354.250	26.05	6.80	32.85	54.00	-21.15	AVG		P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



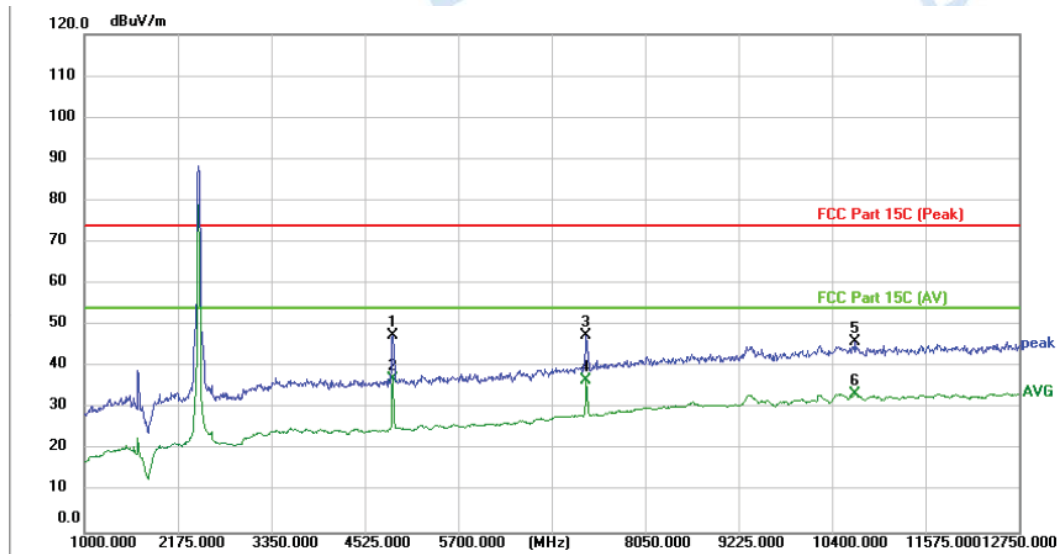
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4818.750	53.13	-1.28	51.85	74.00	-22.15	peak			P	
2 *	4818.750	42.62	-1.28	41.34	54.00	-12.66	AVG			P	
3	7239.250	44.72	3.61	48.33	74.00	-25.67	peak			P	
4	7239.250	34.19	3.61	37.80	54.00	-16.20	AVG			P	
5	10729.000	37.63	7.63	45.26	74.00	-28.74	peak			P	
6	10729.000	25.51	7.63	33.14	54.00	-20.86	AVG			P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M



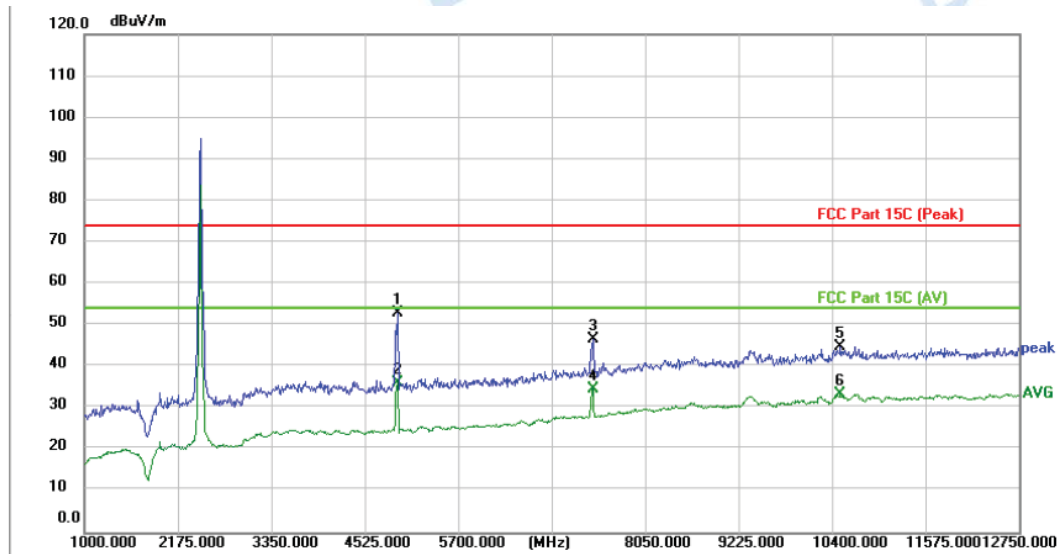
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4865.750	55.83	-1.14	54.69	74.00	-19.31	peak			P	
2 *	4865.750	43.08	-1.14	41.94	54.00	-12.06	AVG			P	
3	7309.750	47.66	3.67	51.33	74.00	-22.67	peak			P	
4	7309.750	35.98	3.67	39.65	54.00	-14.35	AVG			P	
5	9354.250	38.08	6.80	44.88	74.00	-29.12	peak			P	
6	9354.250	26.24	6.80	33.04	54.00	-20.96	AVG			P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M



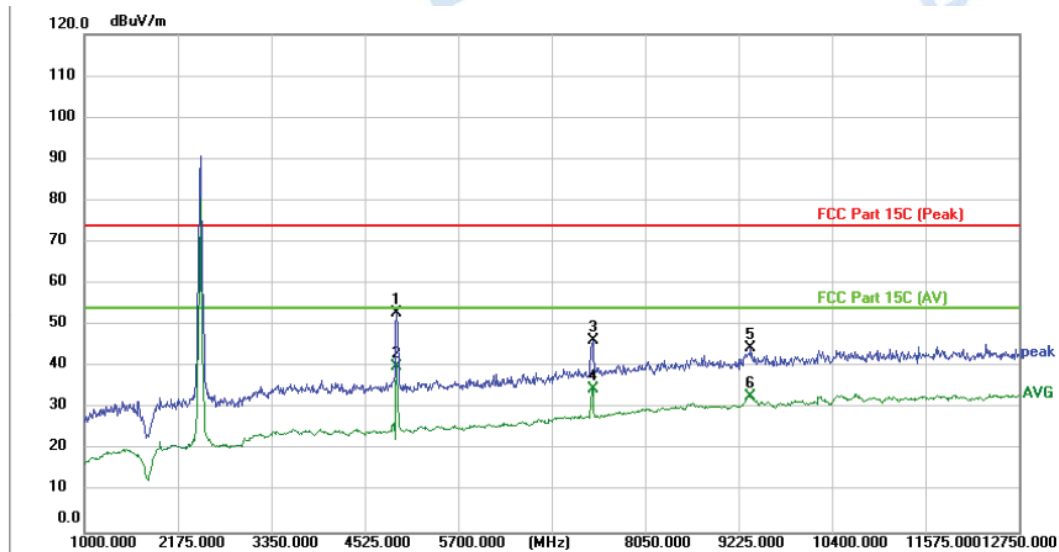
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4877.500	48.59	-1.10	47.49	74.00	-26.51	peak			P	
2 *	4877.500	38.08	-1.10	36.98	54.00	-17.02	AVG			P	
3	7309.750	43.88	3.67	47.55	74.00	-26.45	peak			P	
4	7309.750	33.14	3.67	36.81	54.00	-17.19	AVG			P	
5	10693.750	38.52	7.63	46.15	74.00	-27.85	peak			P	
6	10693.750	25.90	7.63	33.53	54.00	-20.47	AVG			P	

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4936.250	53.74	-0.92	52.82	74.00	-21.18	peak			P	
2 *	4936.250	37.21	-0.92	36.29	54.00	-17.71	AVG			P	
3	7392.000	42.88	3.75	46.63	74.00	-27.37	peak			P	
4	7392.000	30.89	3.75	34.64	54.00	-19.36	AVG			P	
5	10505.750	37.14	7.61	44.75	74.00	-29.25	peak			P	
6	10505.750	25.79	7.61	33.40	54.00	-20.60	AVG			P	

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H

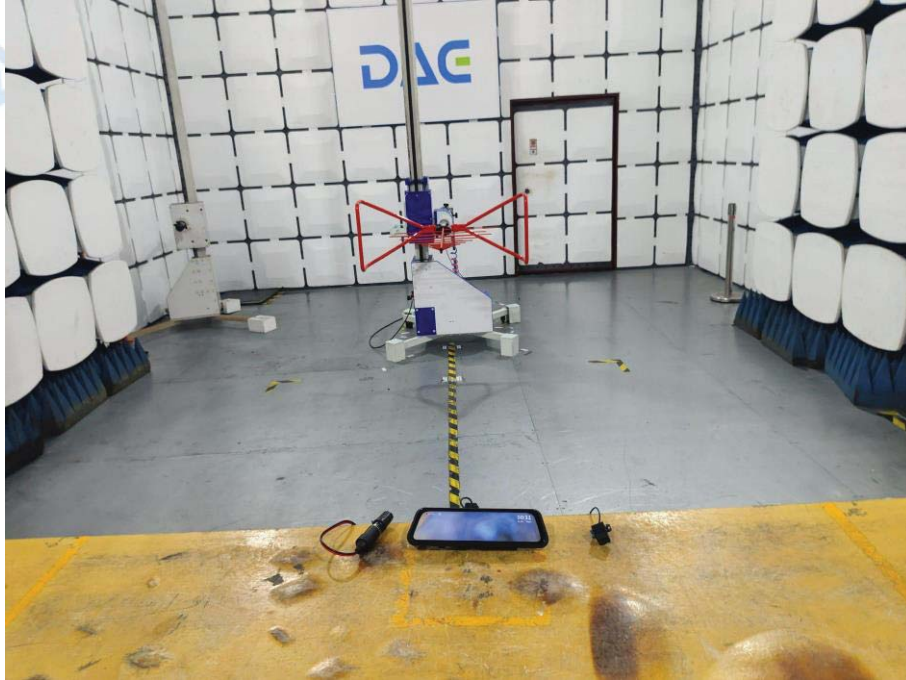


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	4924.500	54.01	-0.97	53.04	74.00	-20.96	peak			P	
2 *	4924.500	41.03	-0.97	40.06	54.00	-13.94	AVG			P	
3	7392.000	42.47	3.75	46.22	74.00	-27.78	peak			P	
4	7392.000	30.96	3.75	34.71	54.00	-19.29	AVG			P	
5	9377.750	37.75	6.79	44.54	74.00	-29.46	peak			P	
6	9377.750	26.05	6.79	32.84	54.00	-21.16	AVG			P	

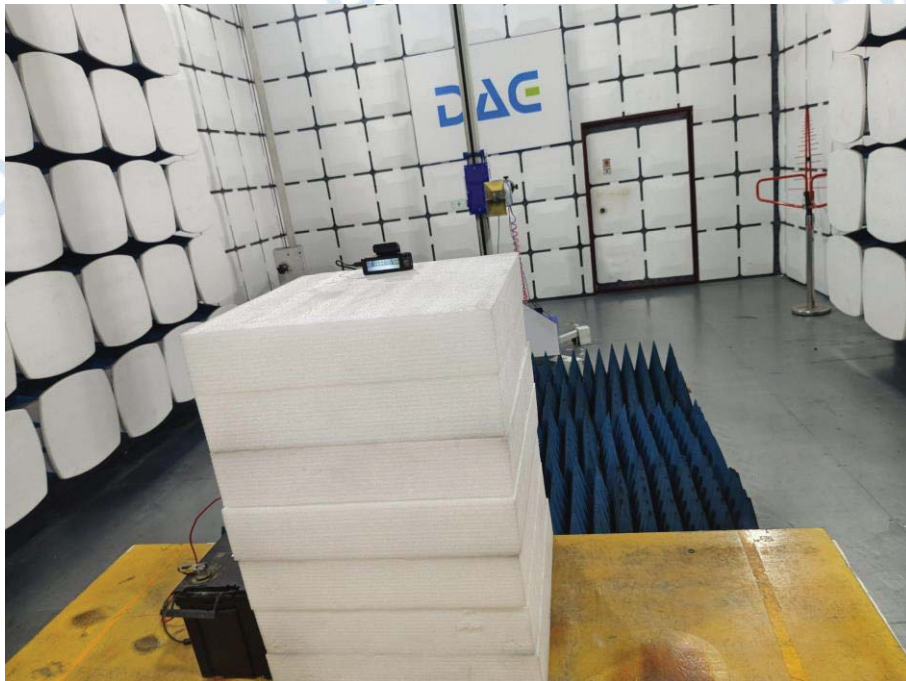
1. Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor
2. Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so the noise floor test chart was not uploaded.
3. All modes have been tested, and the test results show that b-mode data is the worst, only b-mode test chart is put. Test Mode: 802.11b low channel (the worst)

5 TEST SETUP PHOTOS

Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)



6 PHOTOS OF THE EUT

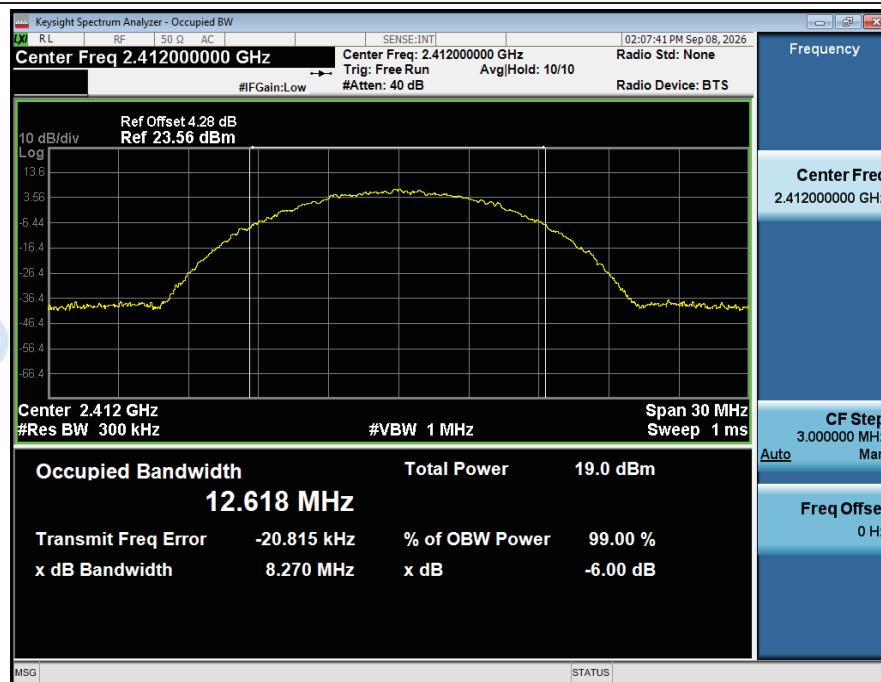
Refer to Appendix - EUT Photos for EUT External Photo and Internal Photo.

Appendix

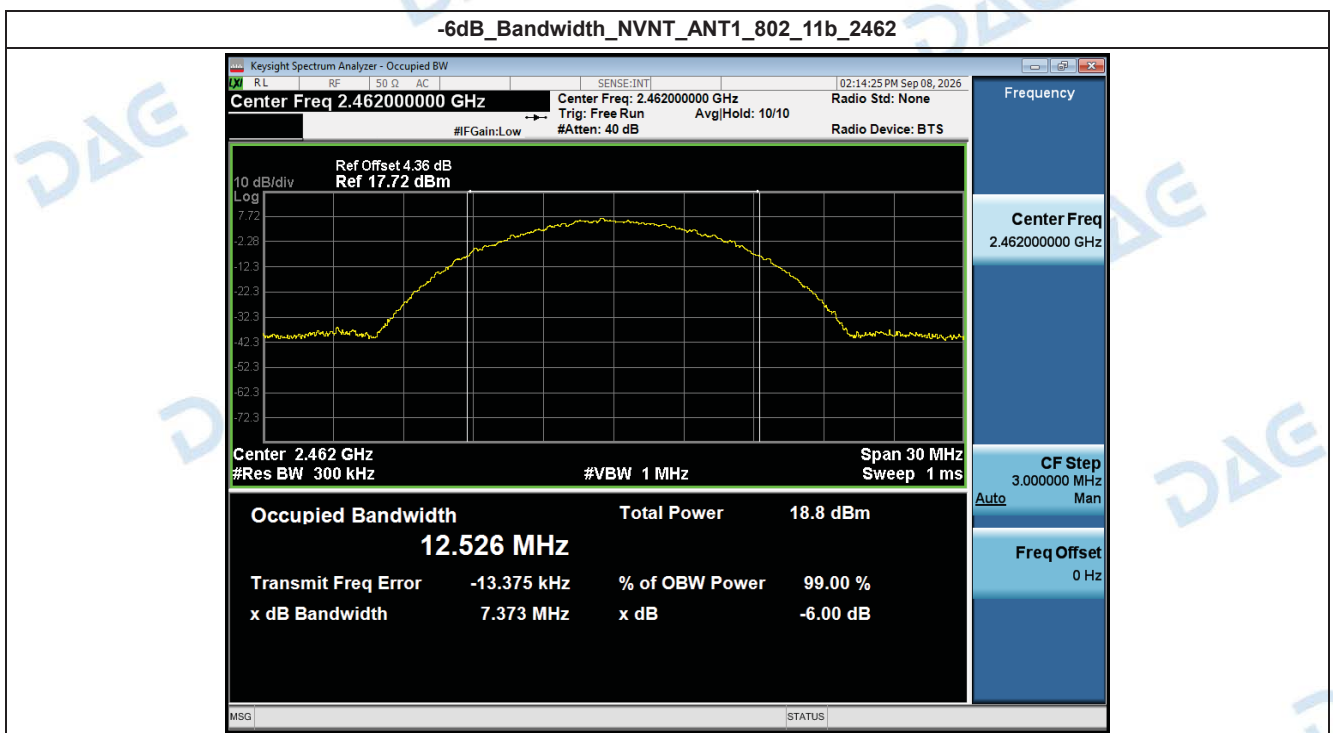
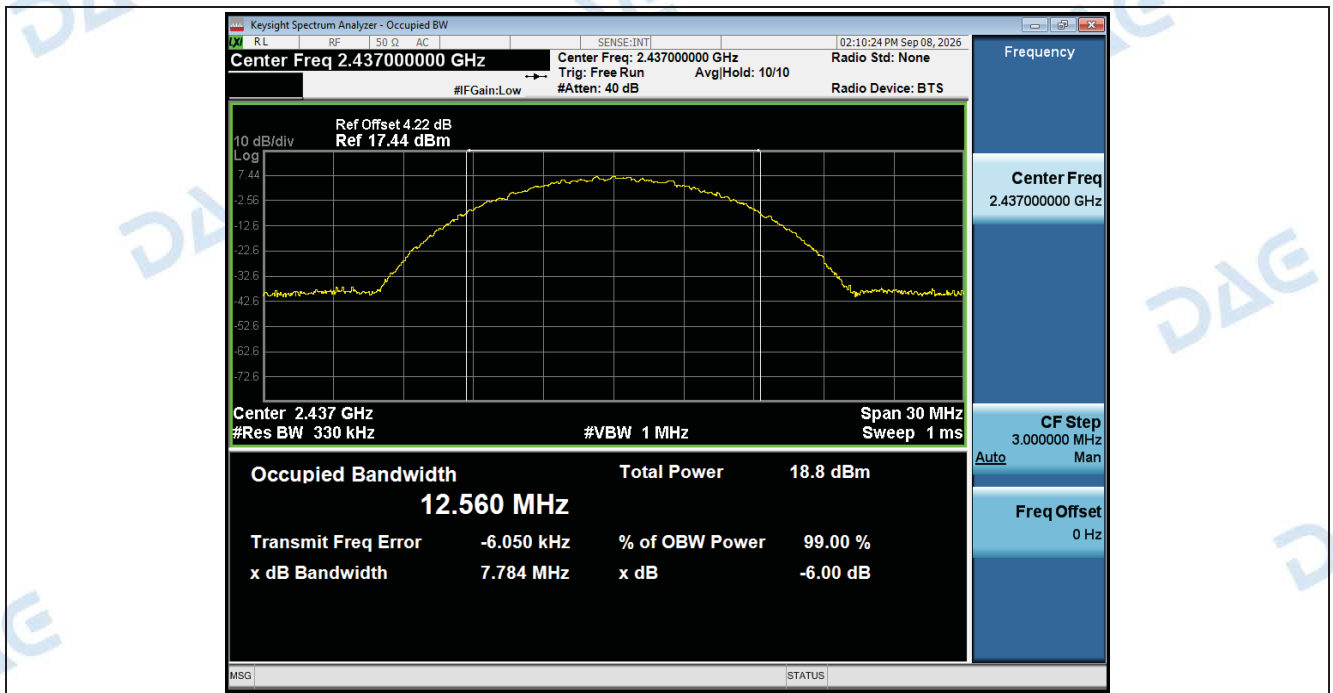
1. -6dB Bandwidth

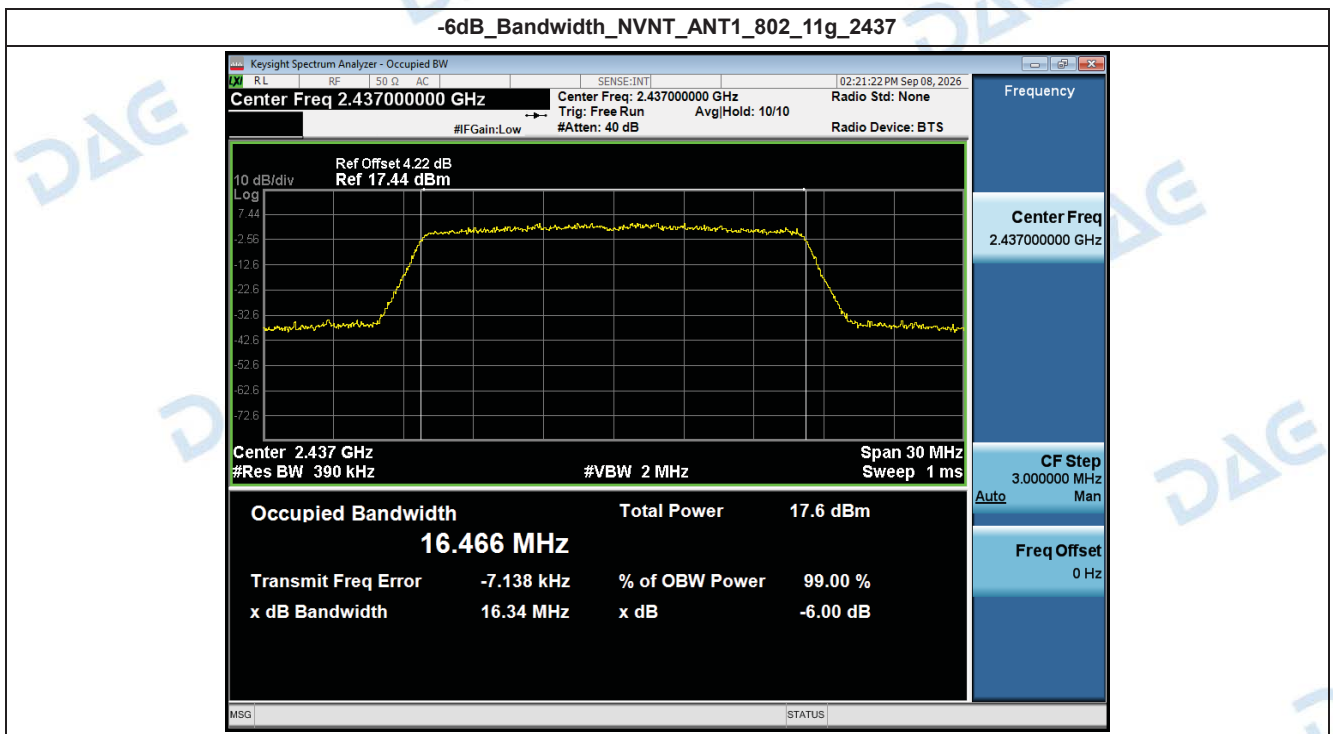
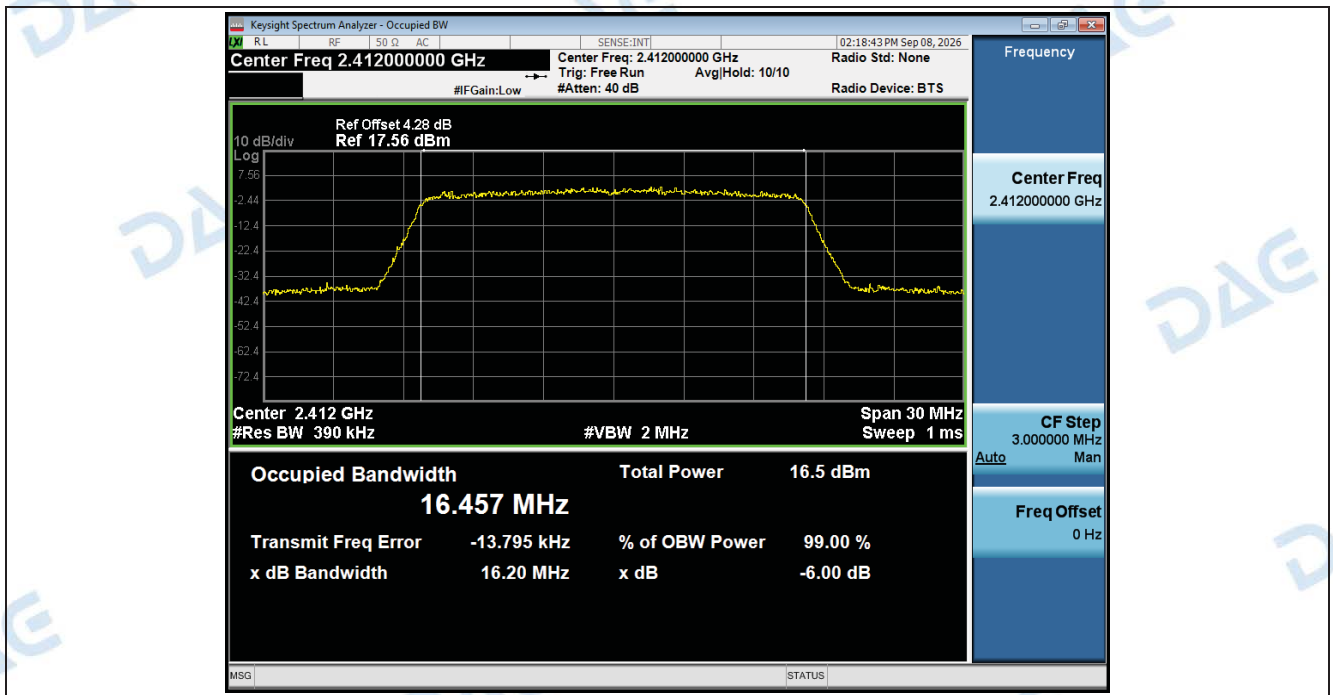
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	8.27	500	Pass
NVNT	ANT1	802.11b	2437.00	7.78	500	Pass
NVNT	ANT1	802.11b	2462.00	7.37	500	Pass
NVNT	ANT1	802.11g	2412.00	16.20	500	Pass
NVNT	ANT1	802.11g	2437.00	16.34	500	Pass
NVNT	ANT1	802.11g	2462.00	16.15	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.38	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.37	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.37	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	19.22	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	19.02	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	19.14	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.71	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.50	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.40	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	38.21	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	38.31	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	38.39	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412

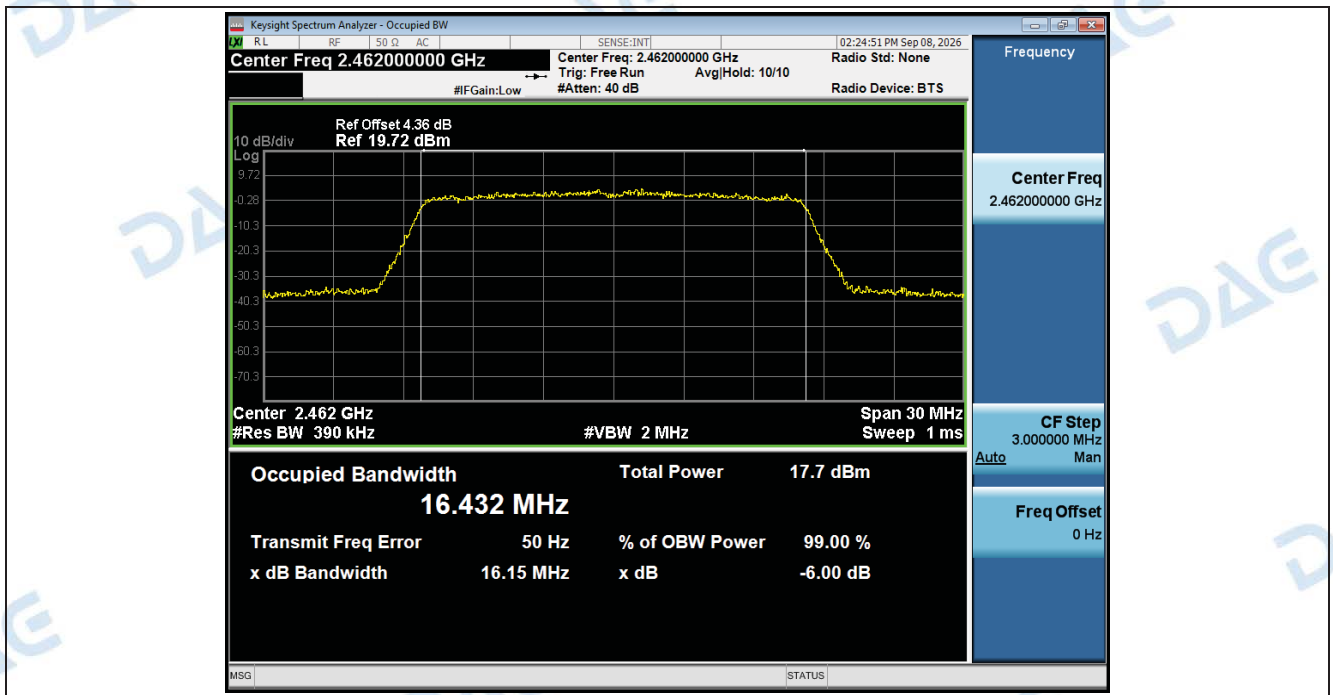


-6dB_Bandwidth_NVNT_ANT1_802_11b_2437

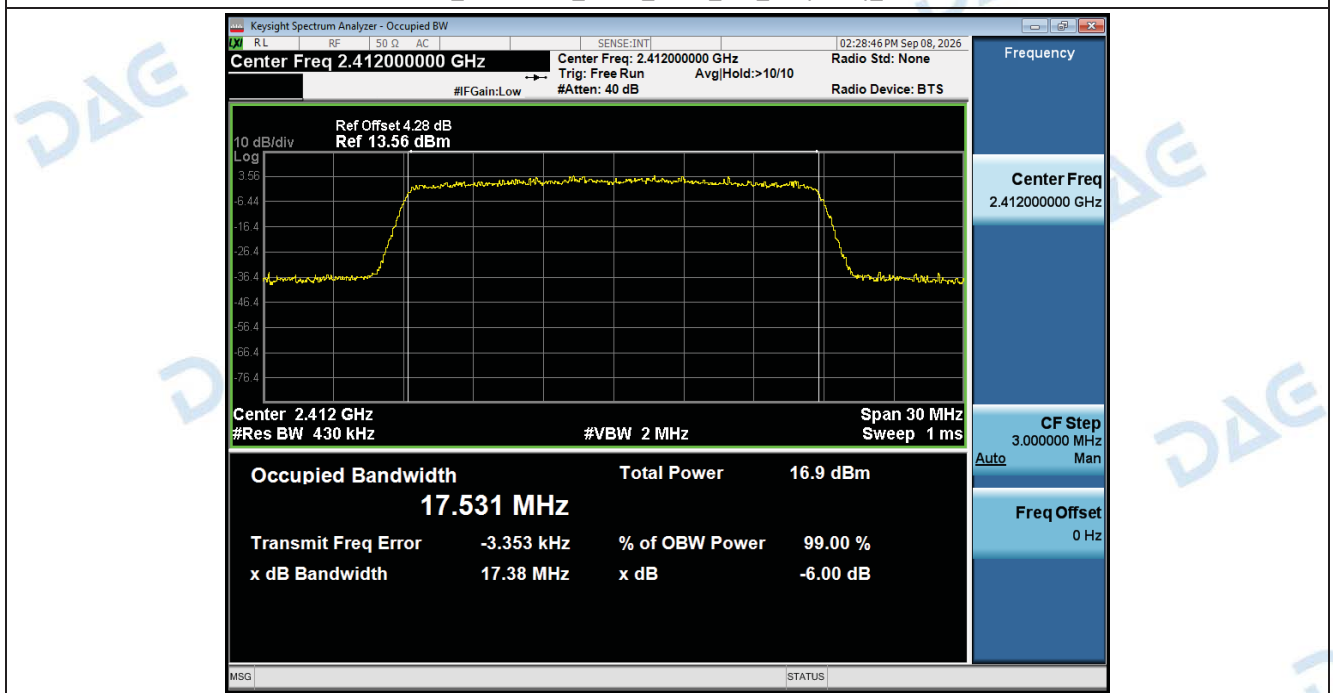




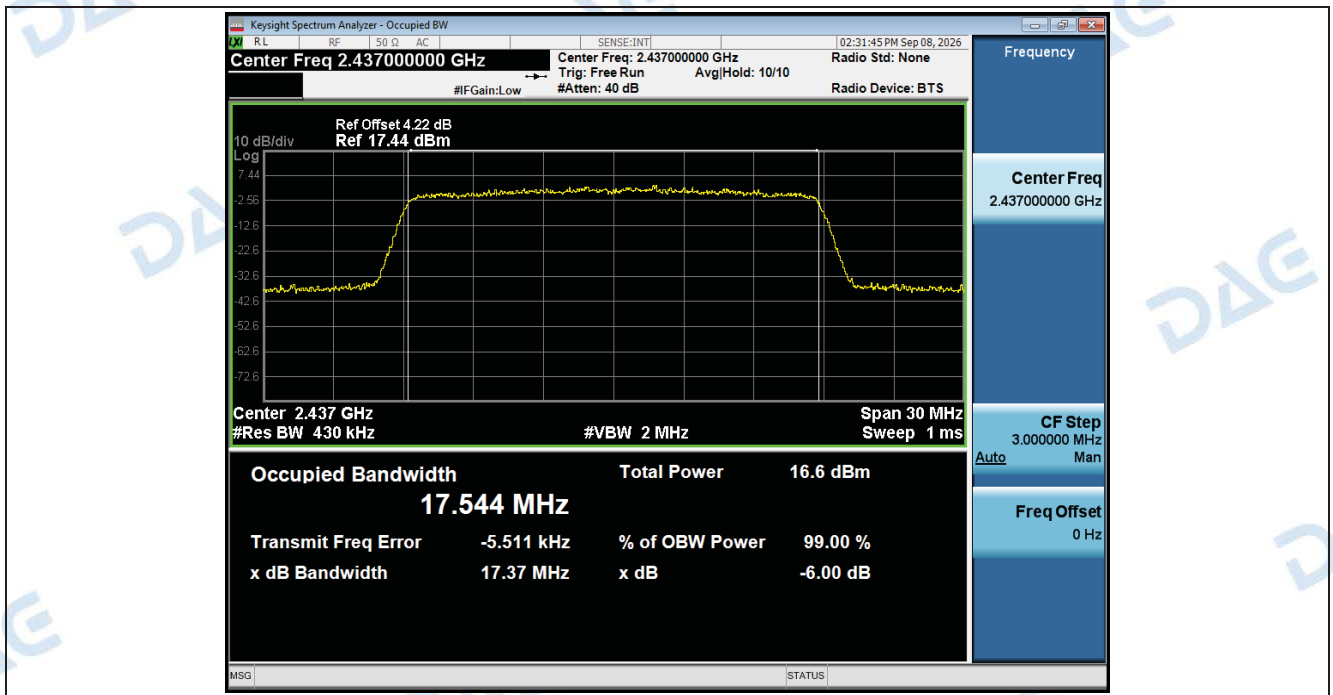
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



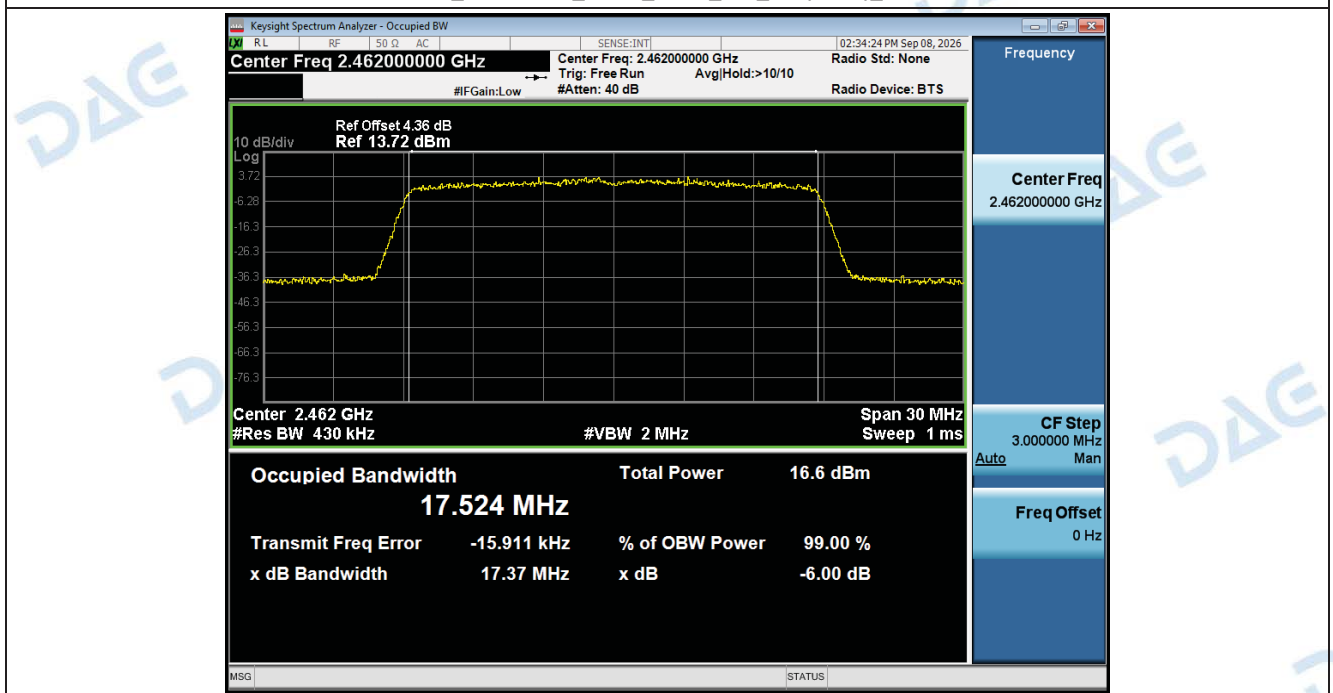
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



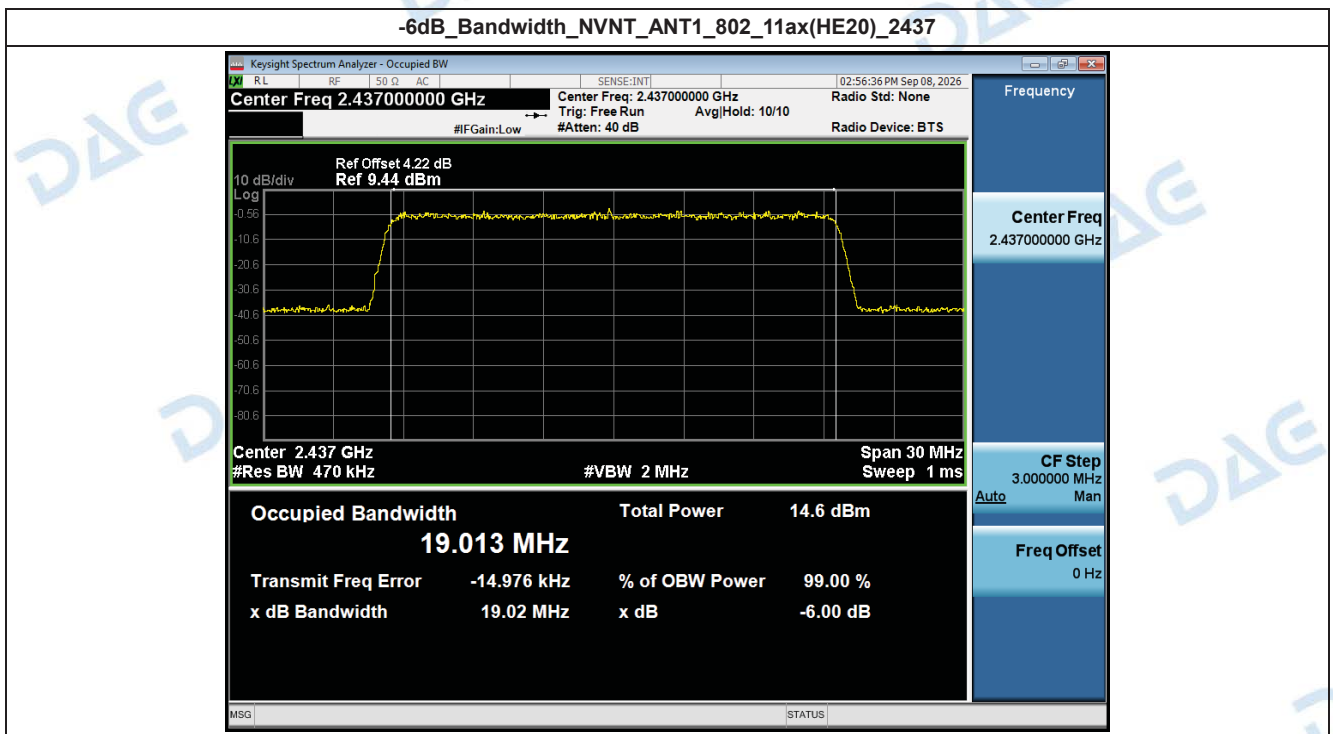
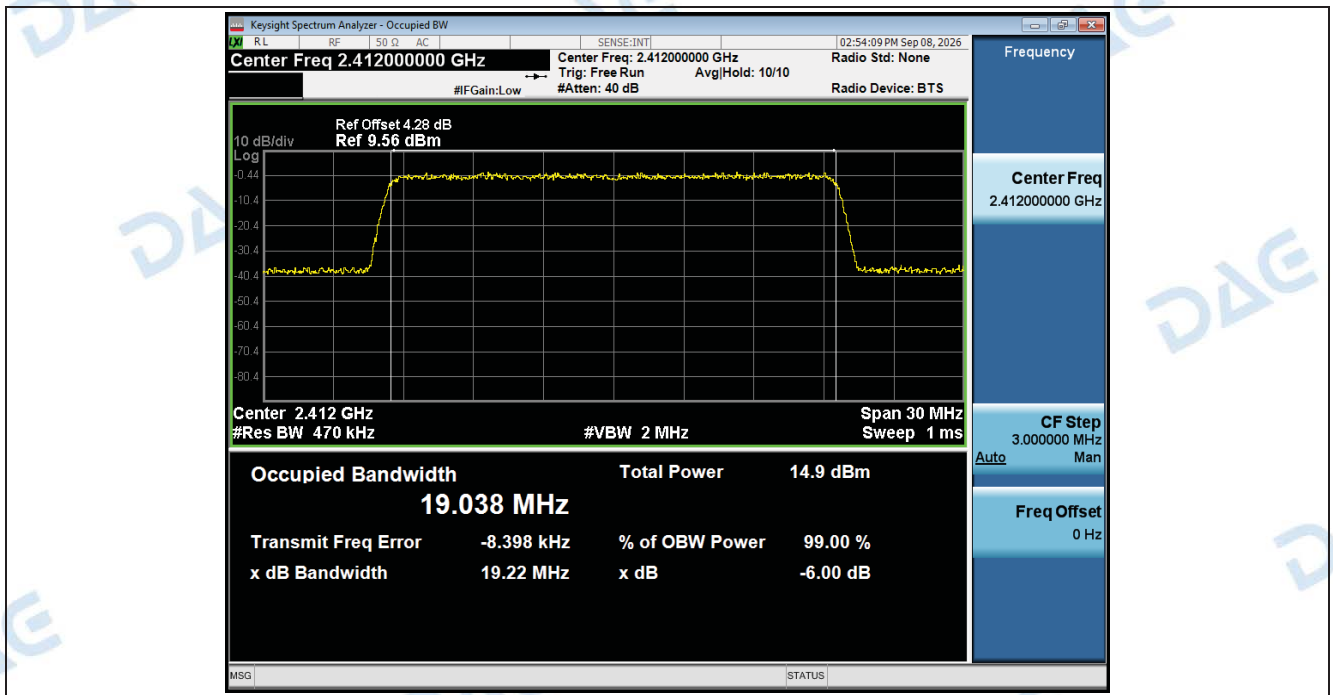
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

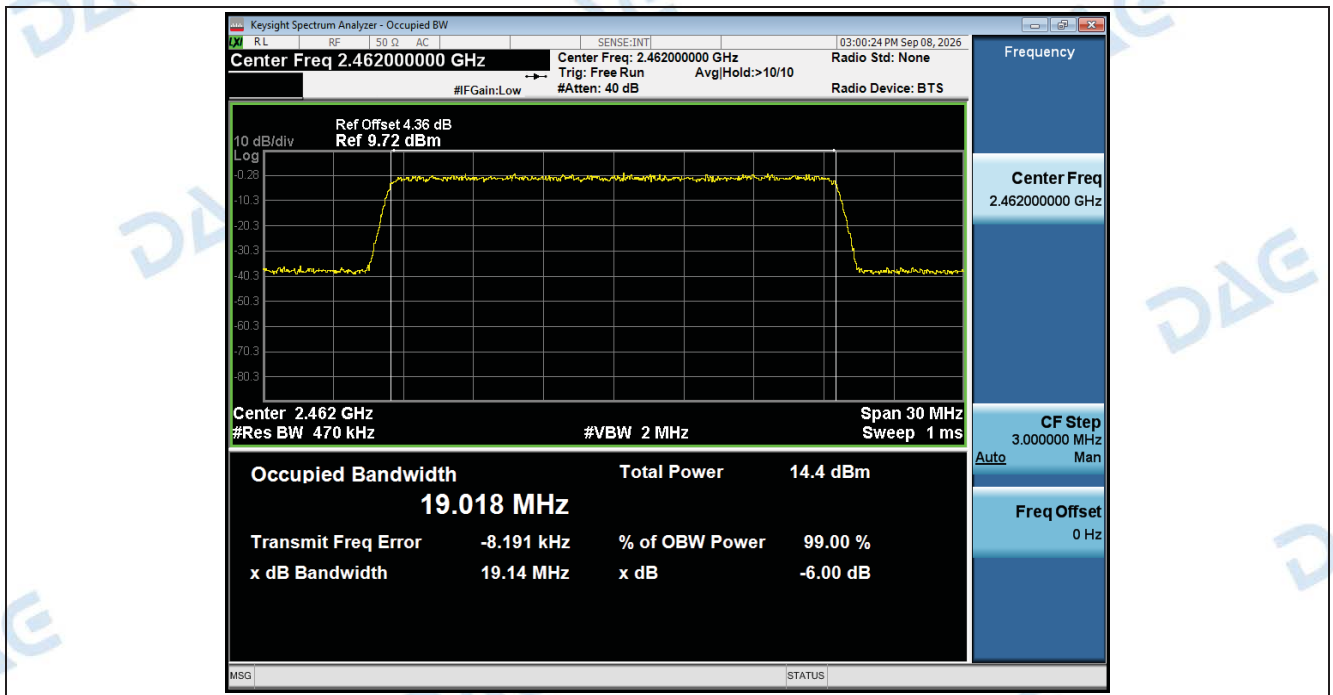


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462

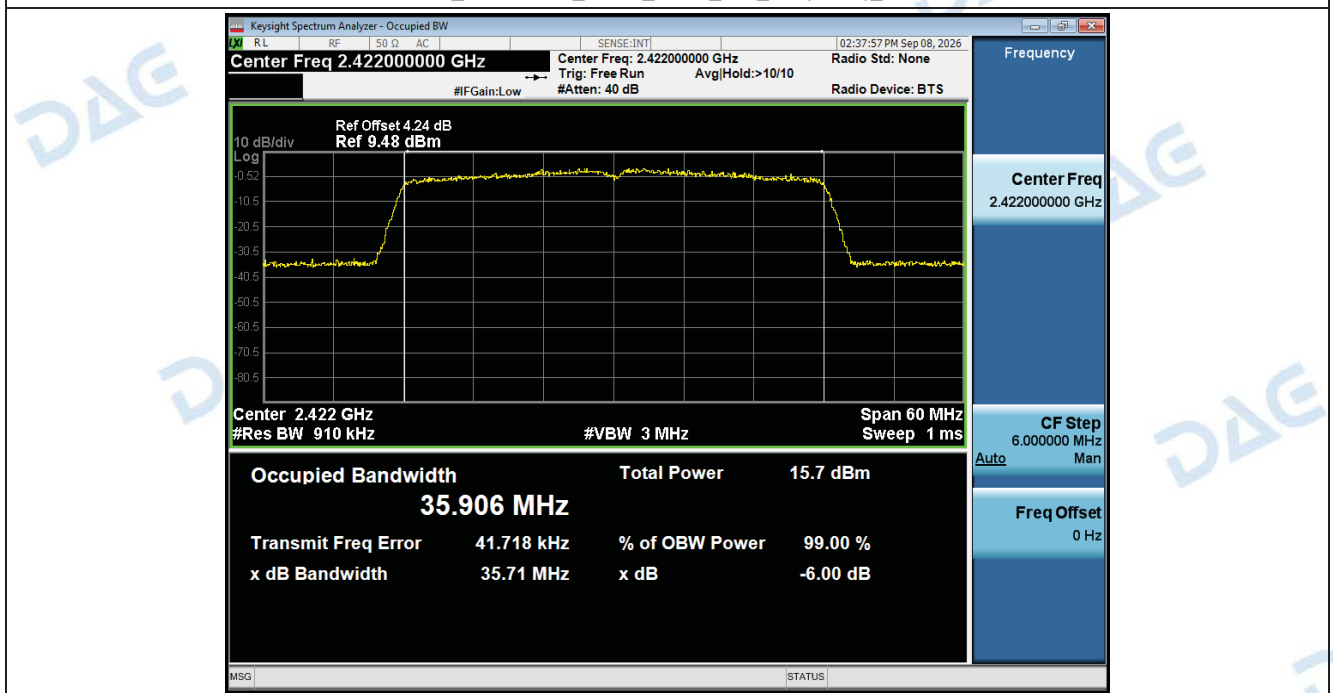


-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412

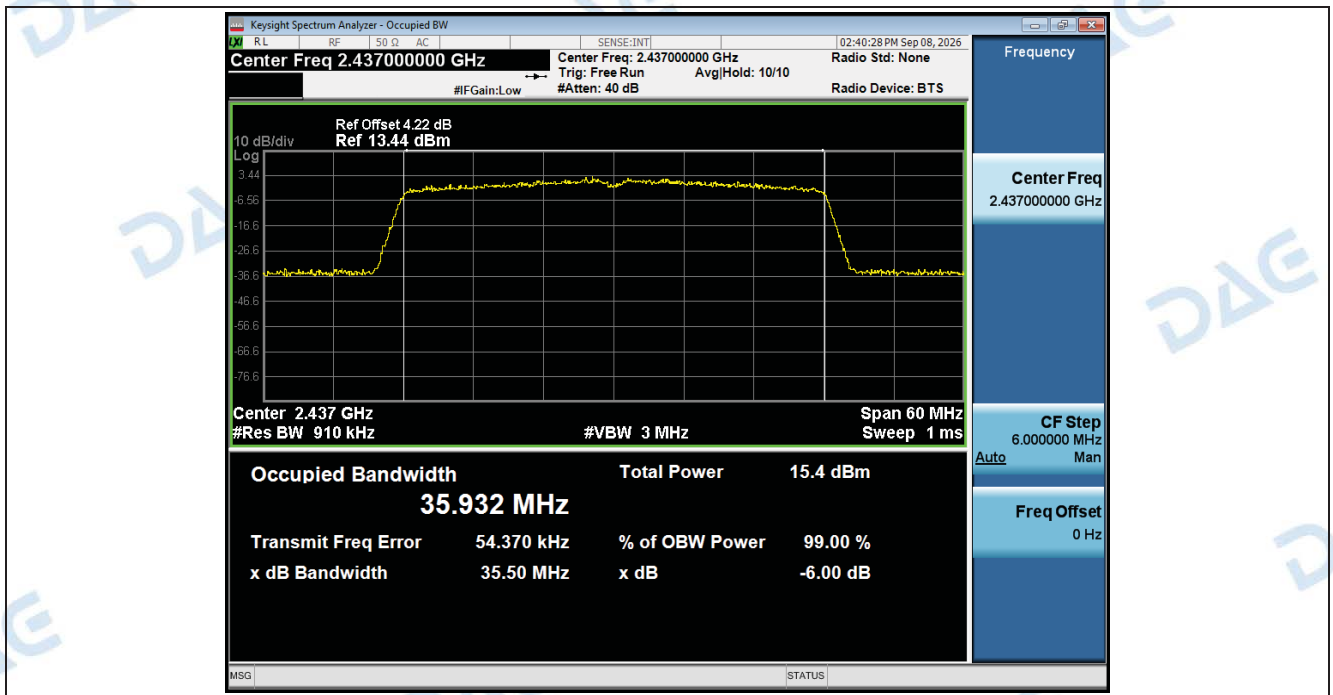




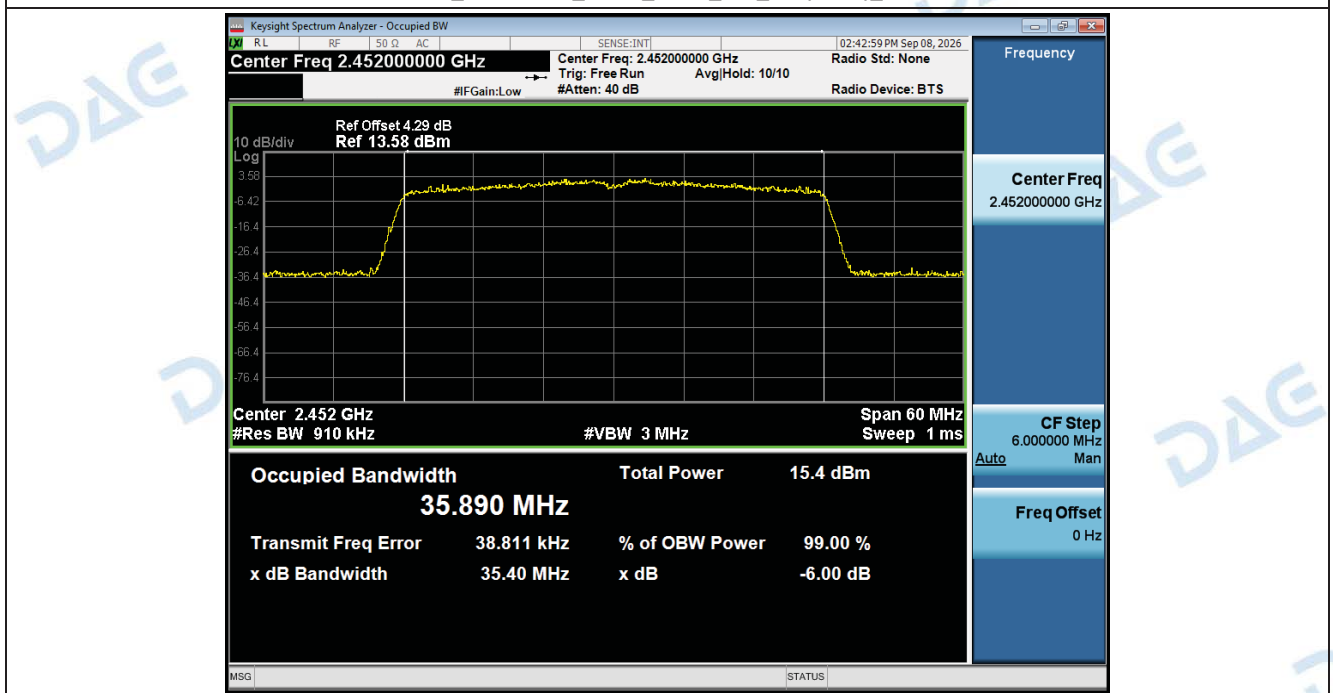
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



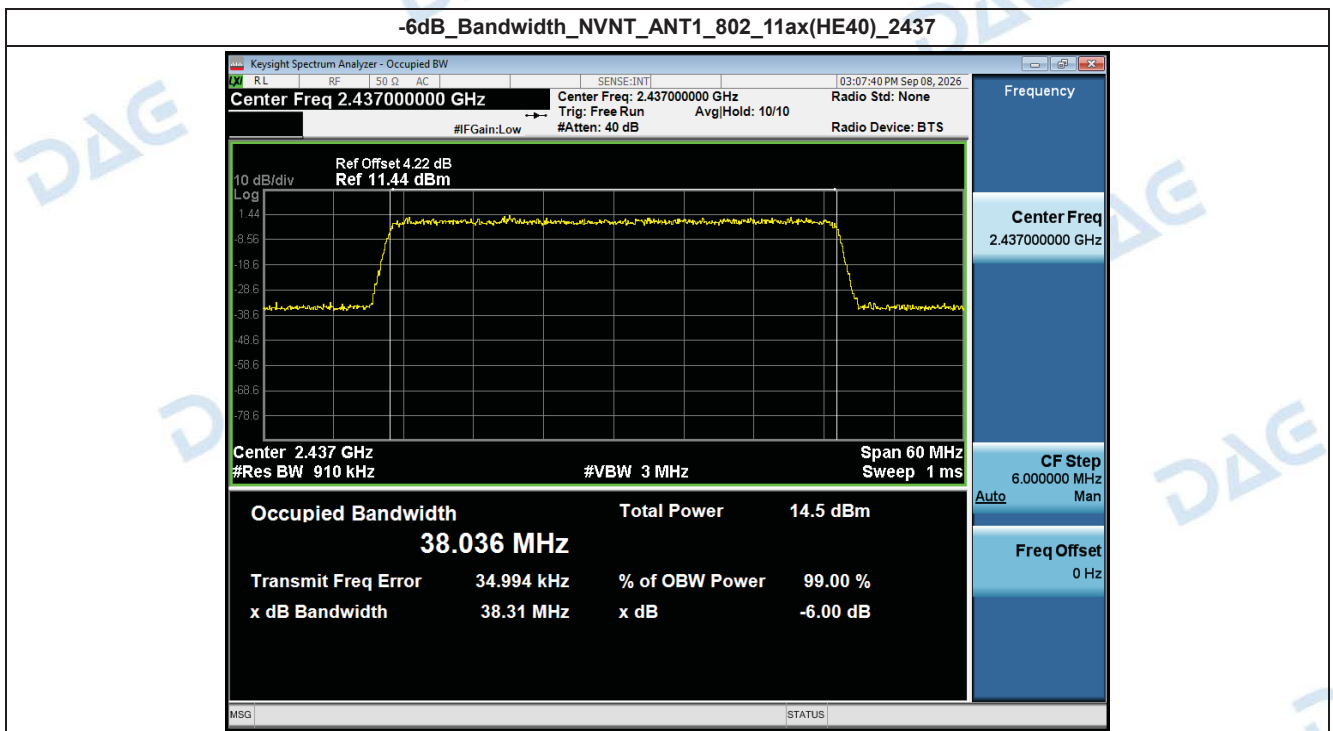
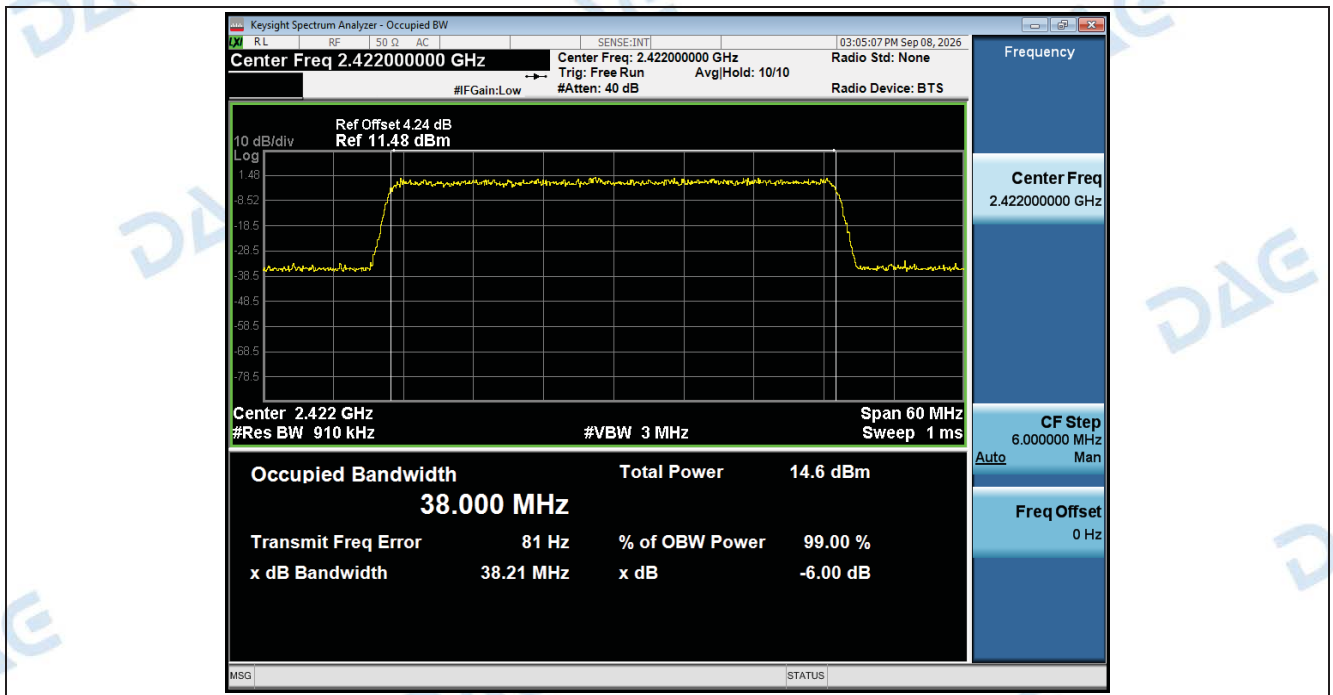
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437

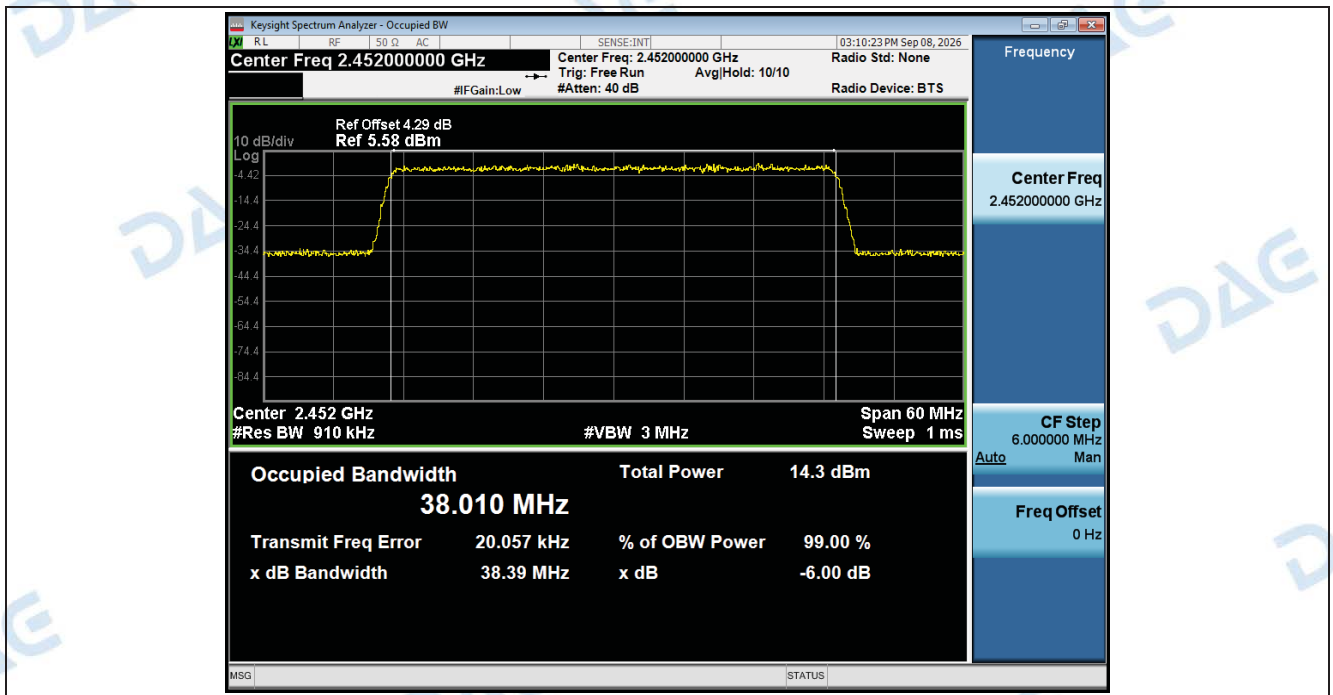


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422

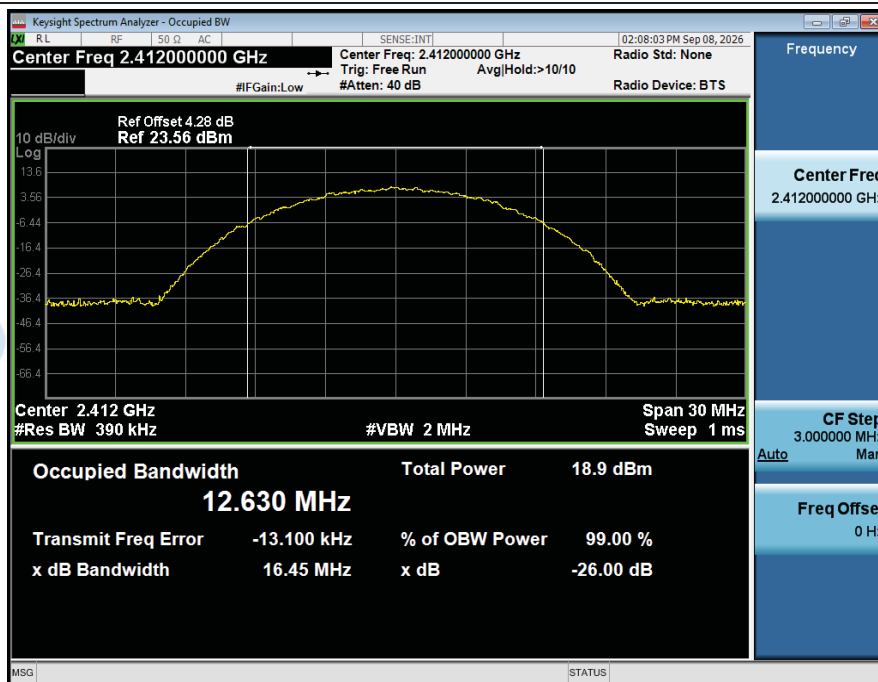




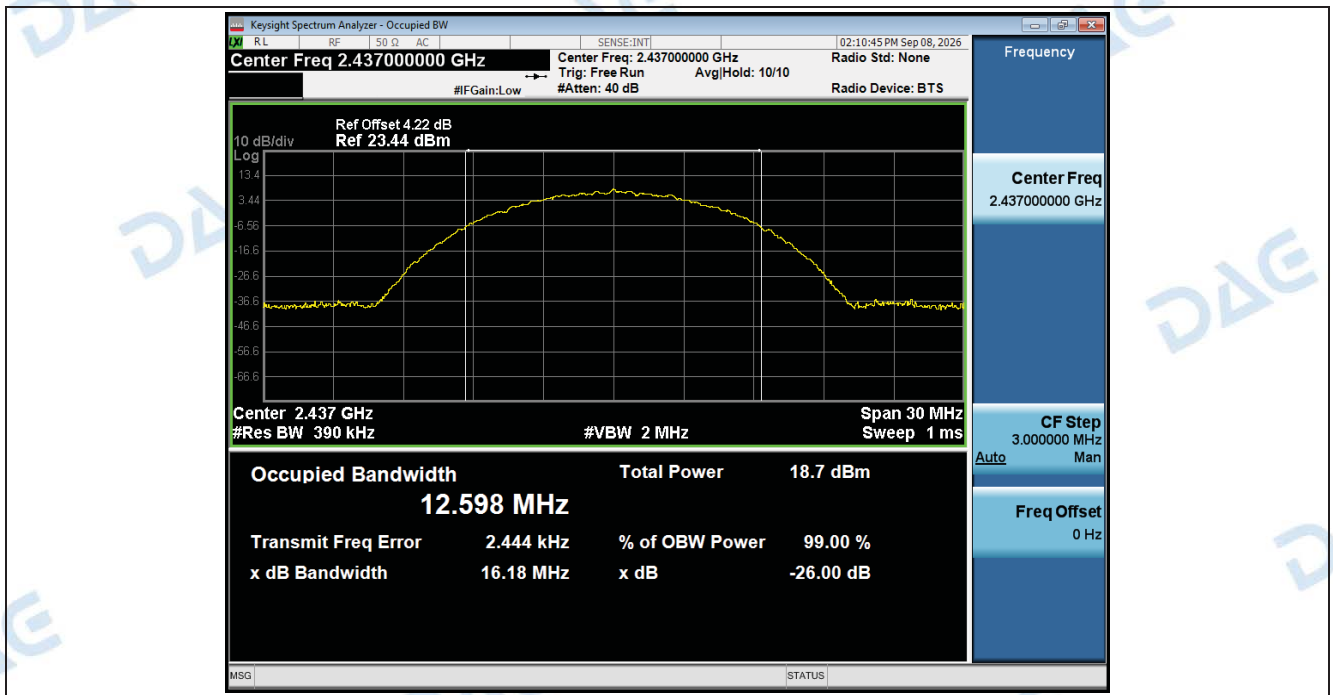
2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	12.630
NVNT	ANT1	802.11b	2437.00	12.598
NVNT	ANT1	802.11b	2462.00	12.557
NVNT	ANT1	802.11g	2412.00	16.503
NVNT	ANT1	802.11g	2437.00	16.464
NVNT	ANT1	802.11g	2462.00	16.485
NVNT	ANT1	802.11n(HT20)	2412.00	17.549
NVNT	ANT1	802.11n(HT20)	2437.00	17.536
NVNT	ANT1	802.11n(HT20)	2462.00	17.541
NVNT	ANT1	802.11ax(HE20)	2412.00	19.035
NVNT	ANT1	802.11ax(HE20)	2437.00	19.048
NVNT	ANT1	802.11ax(HE20)	2462.00	19.053
NVNT	ANT1	802.11n(HT40)	2422.00	35.914
NVNT	ANT1	802.11n(HT40)	2437.00	35.918
NVNT	ANT1	802.11n(HT40)	2452.00	35.913
NVNT	ANT1	802.11ax(HE40)	2422.00	38.050
NVNT	ANT1	802.11ax(HE40)	2437.00	38.046
NVNT	ANT1	802.11ax(HE40)	2452.00	38.048

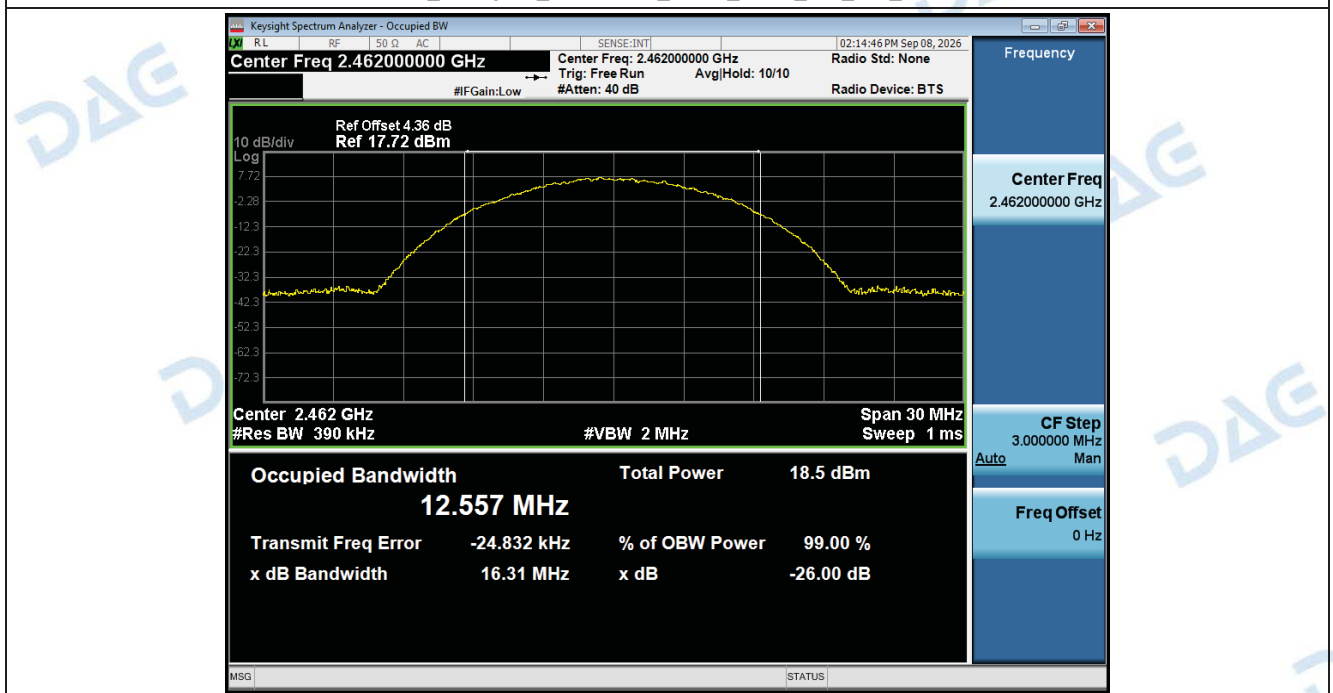
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



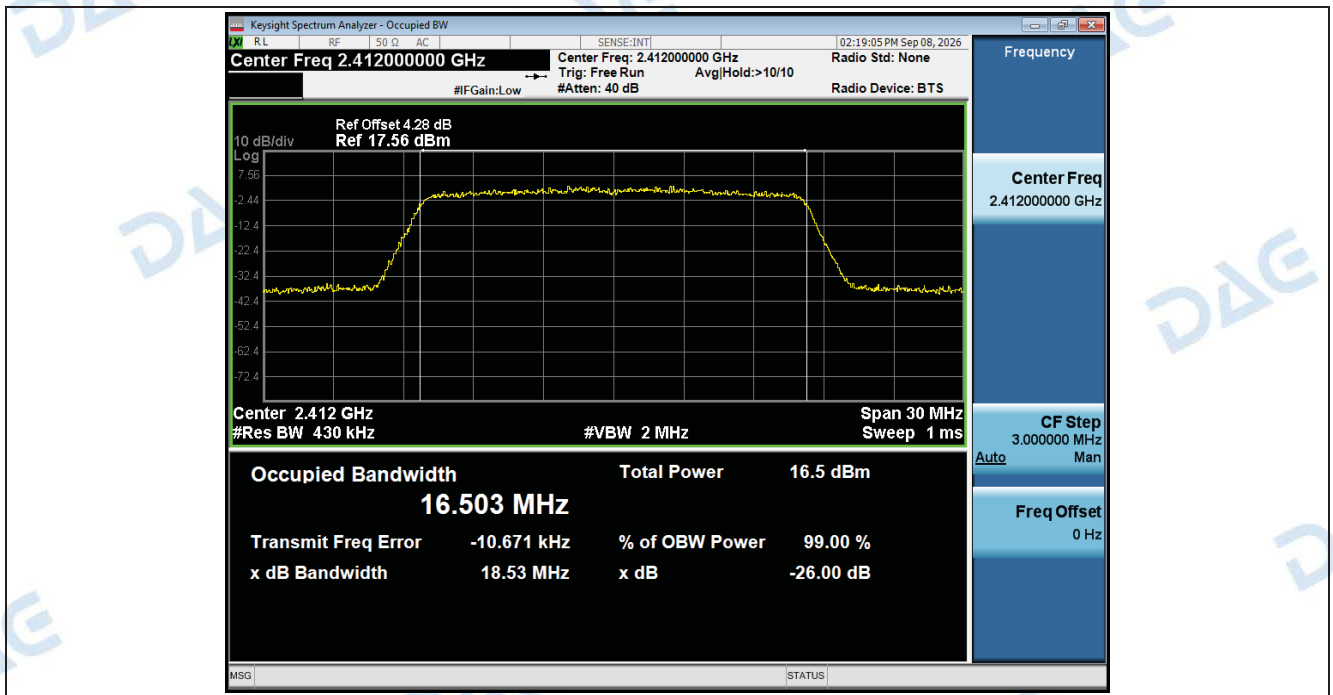
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437



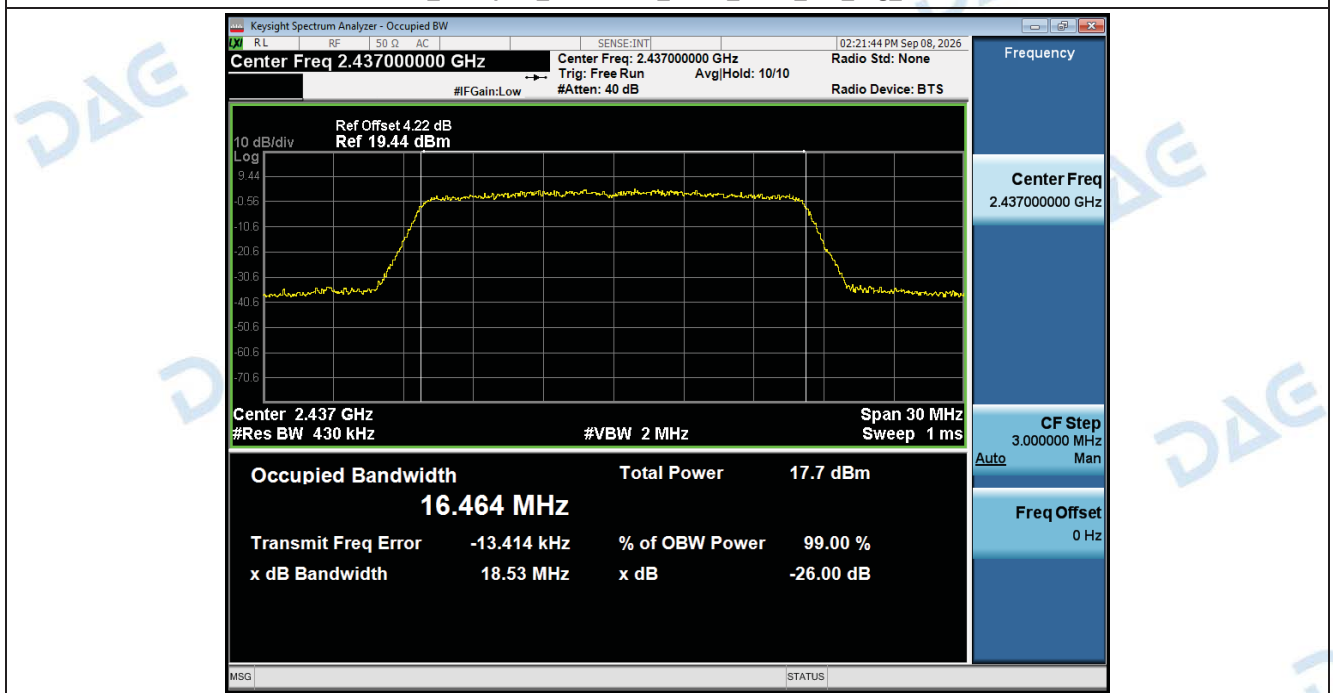
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



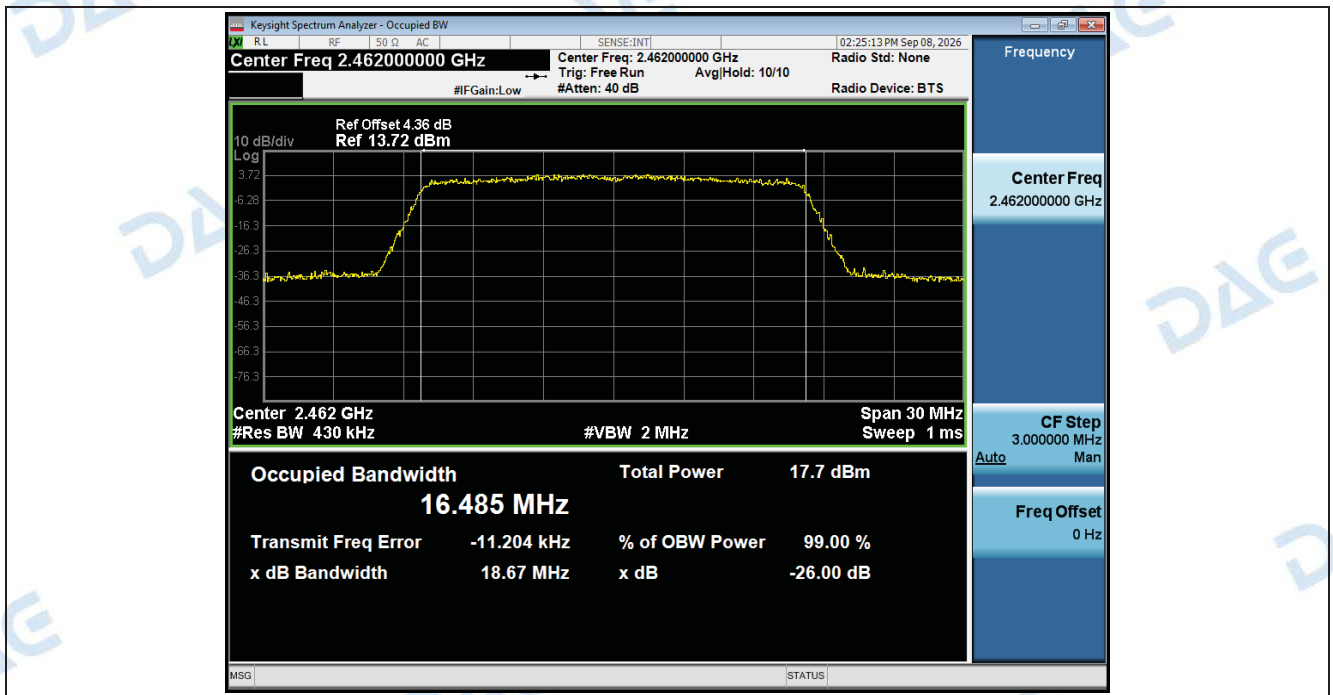
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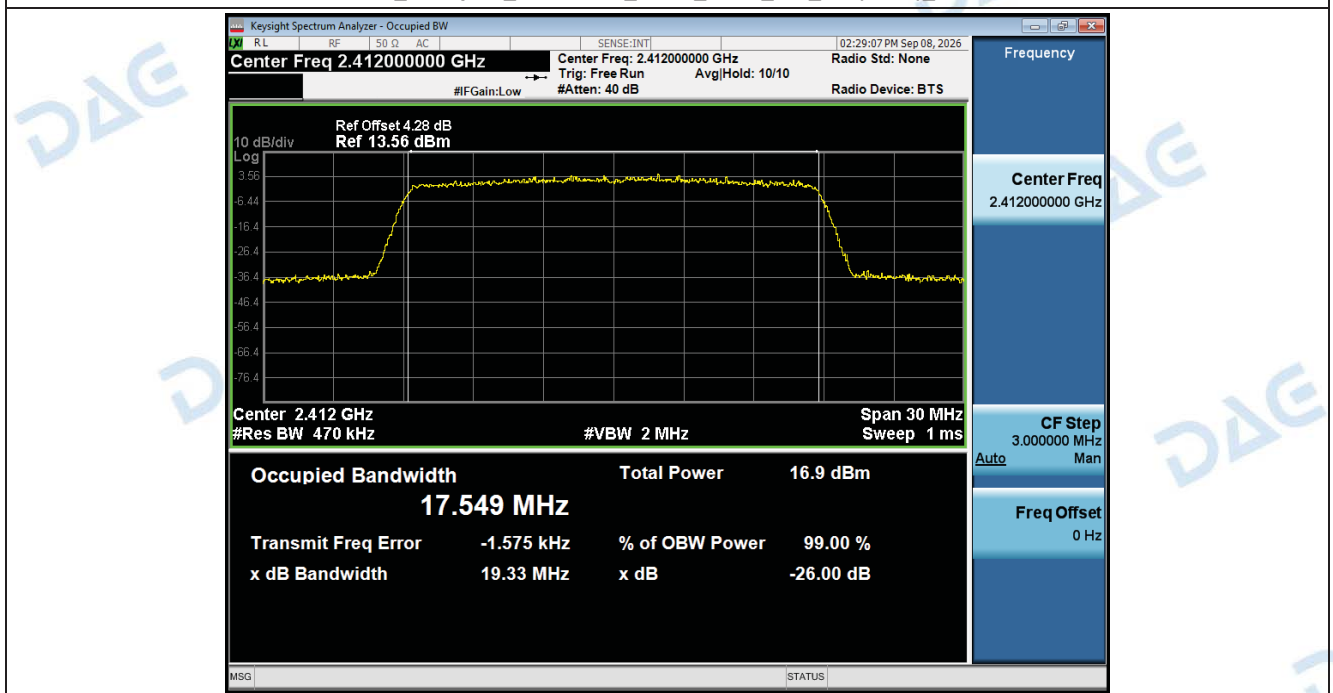
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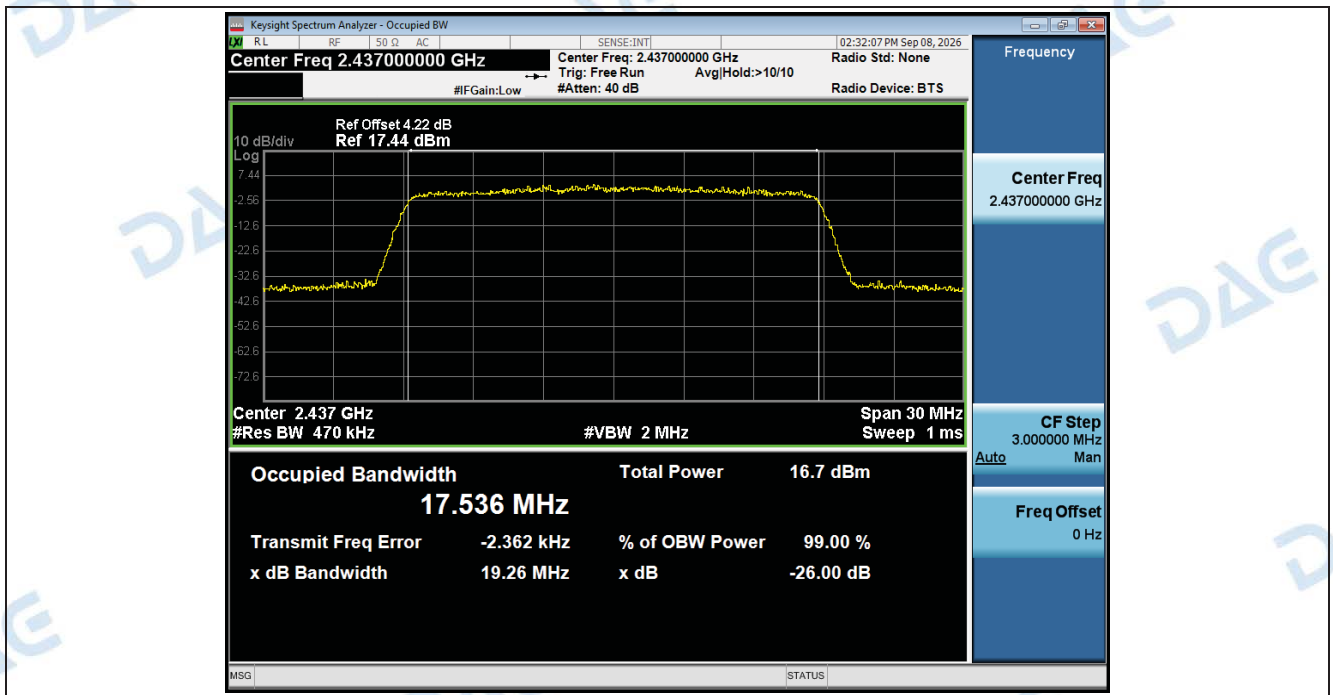
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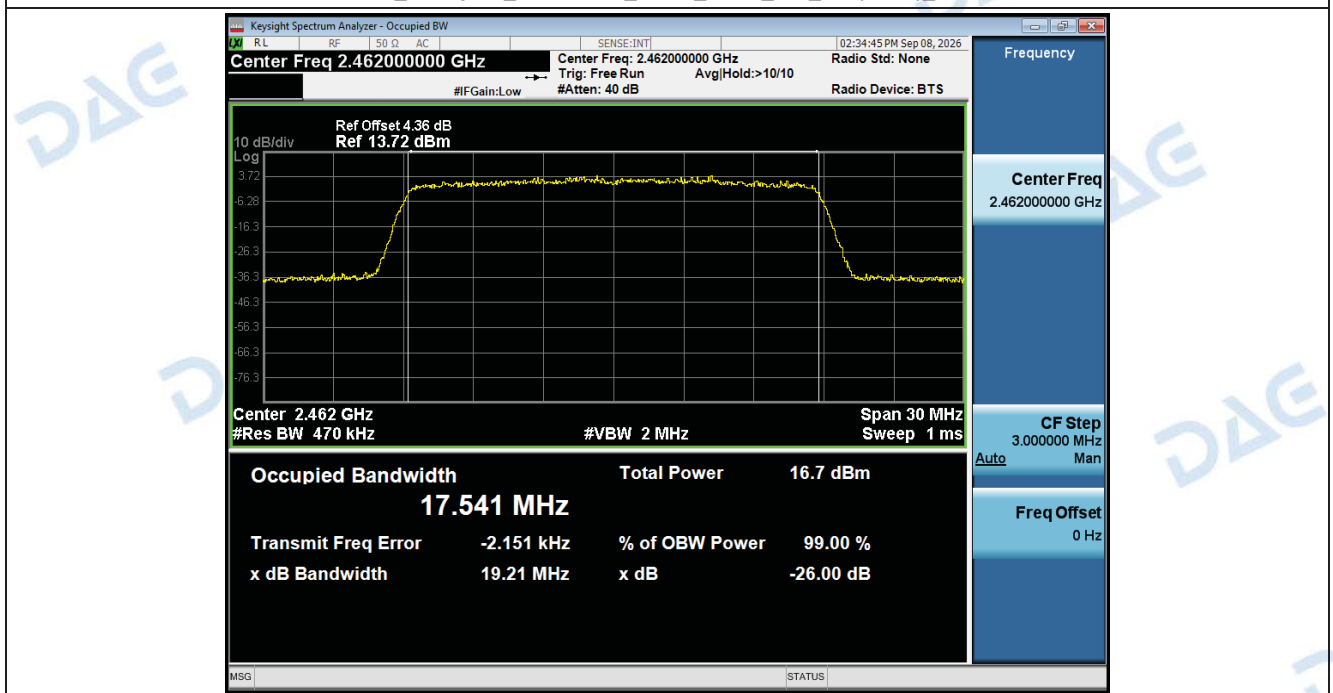
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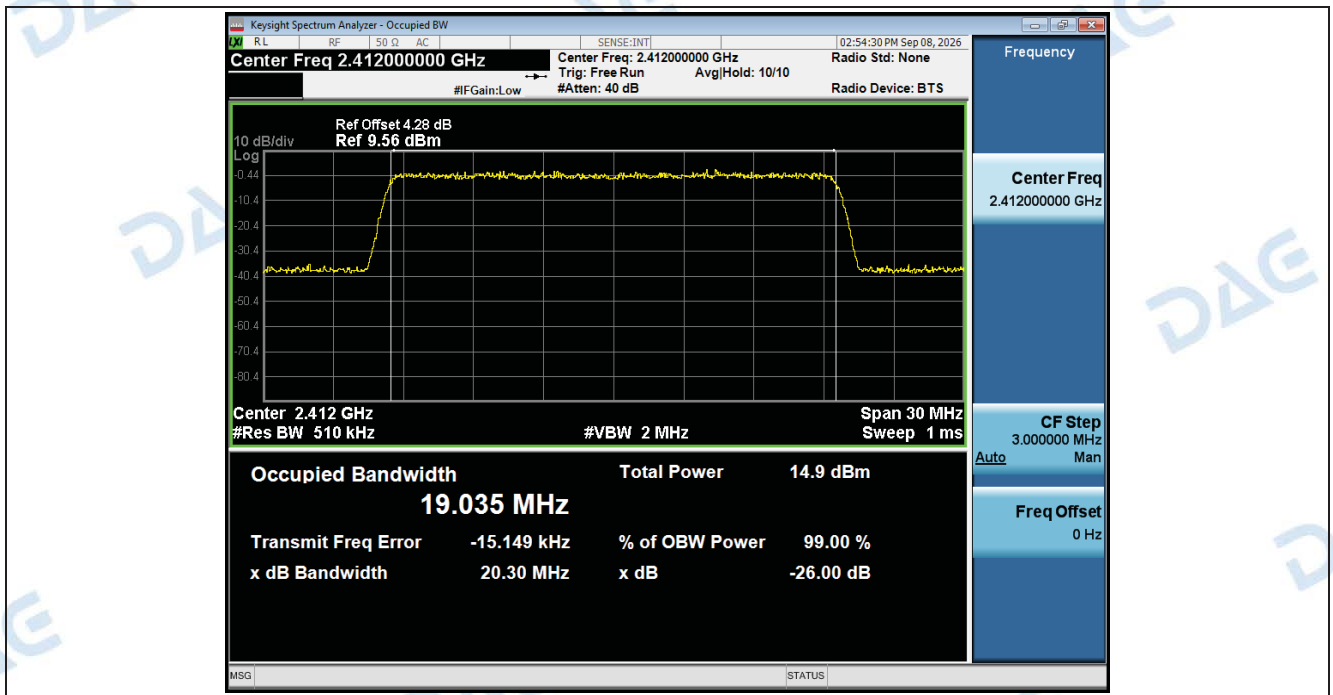
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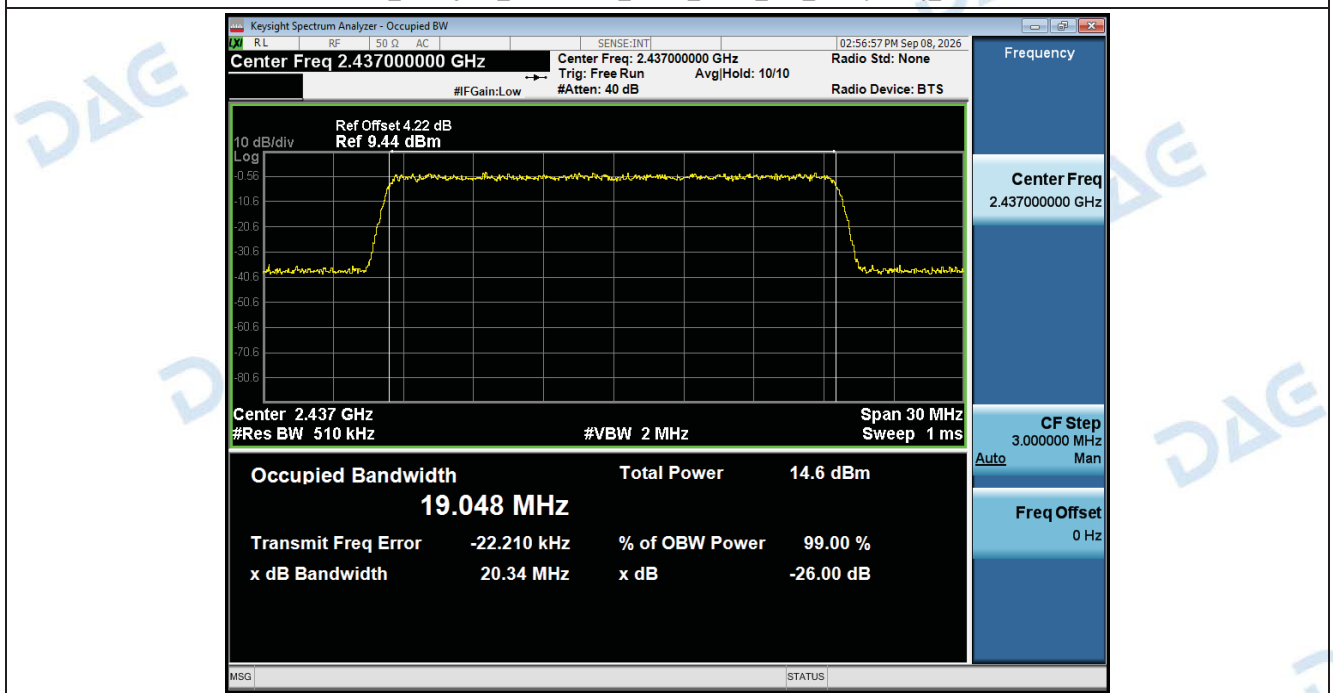
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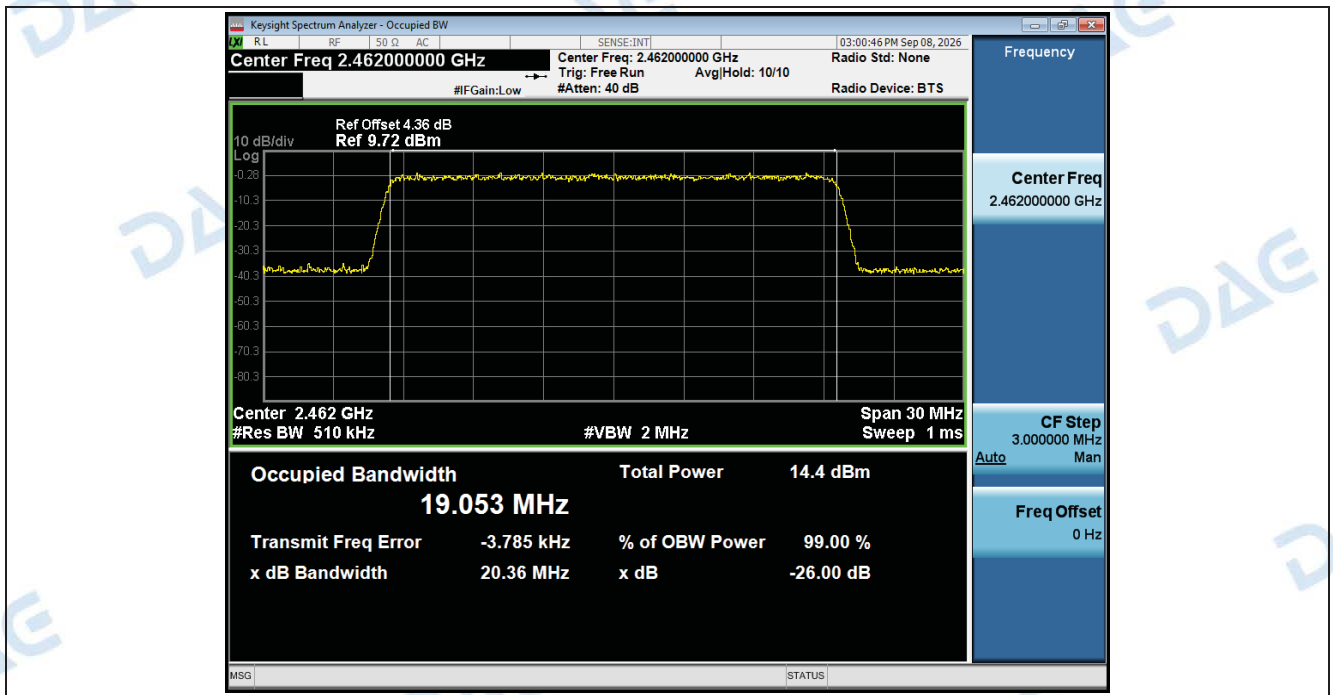
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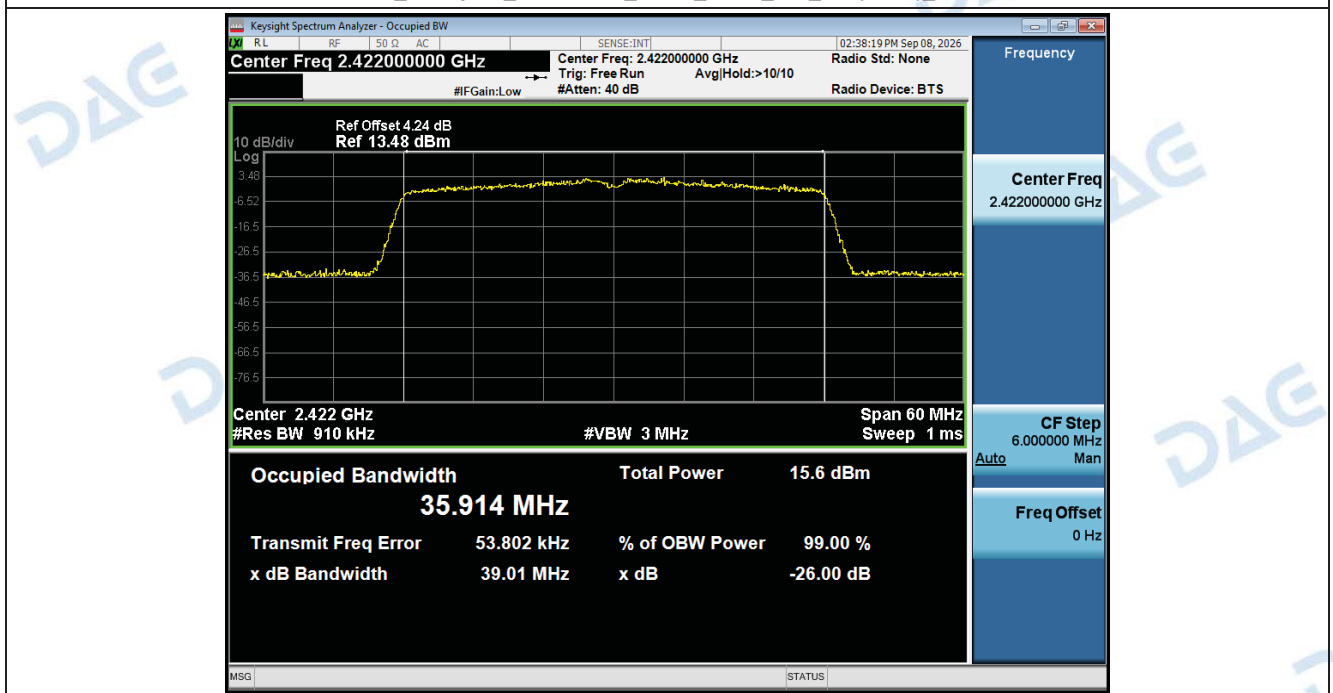
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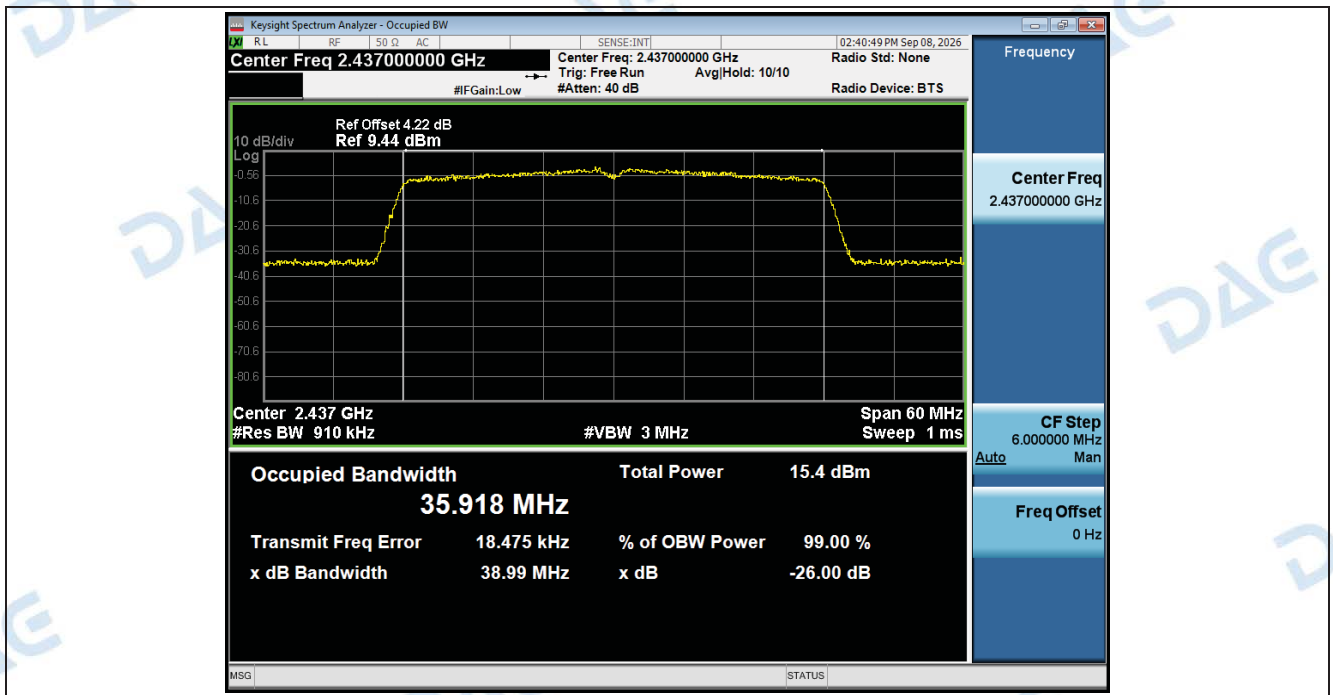
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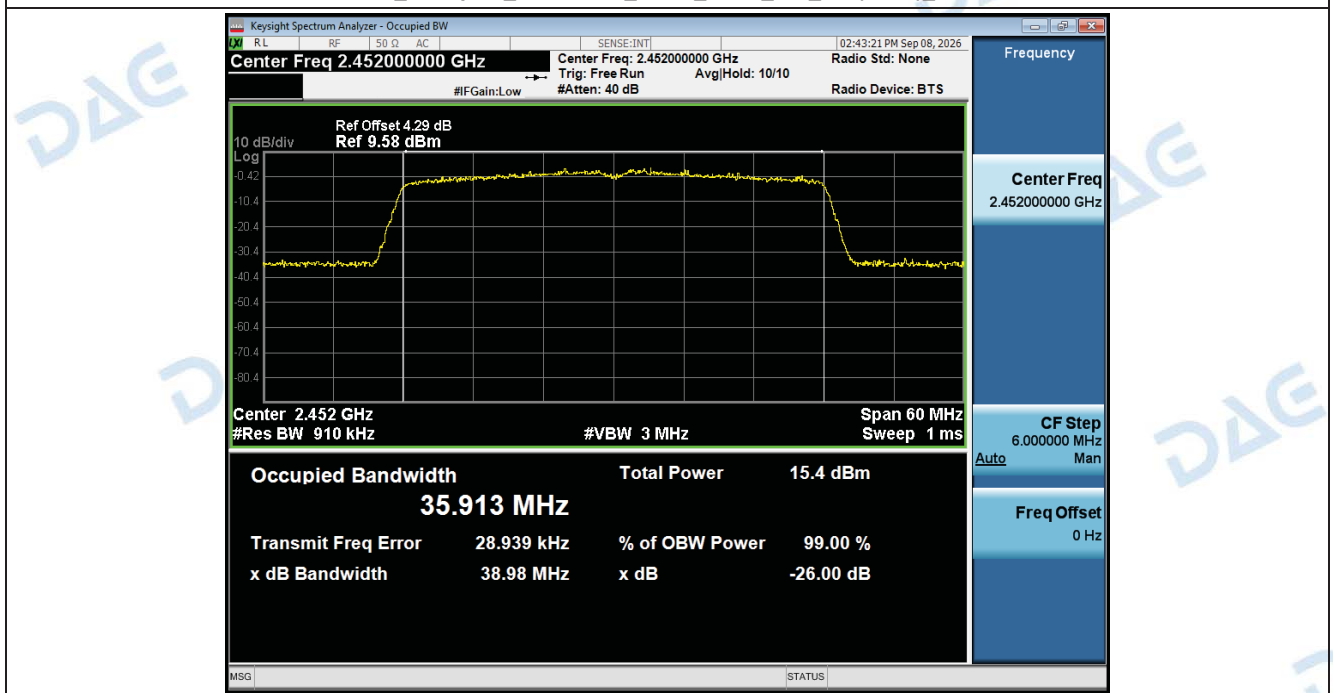
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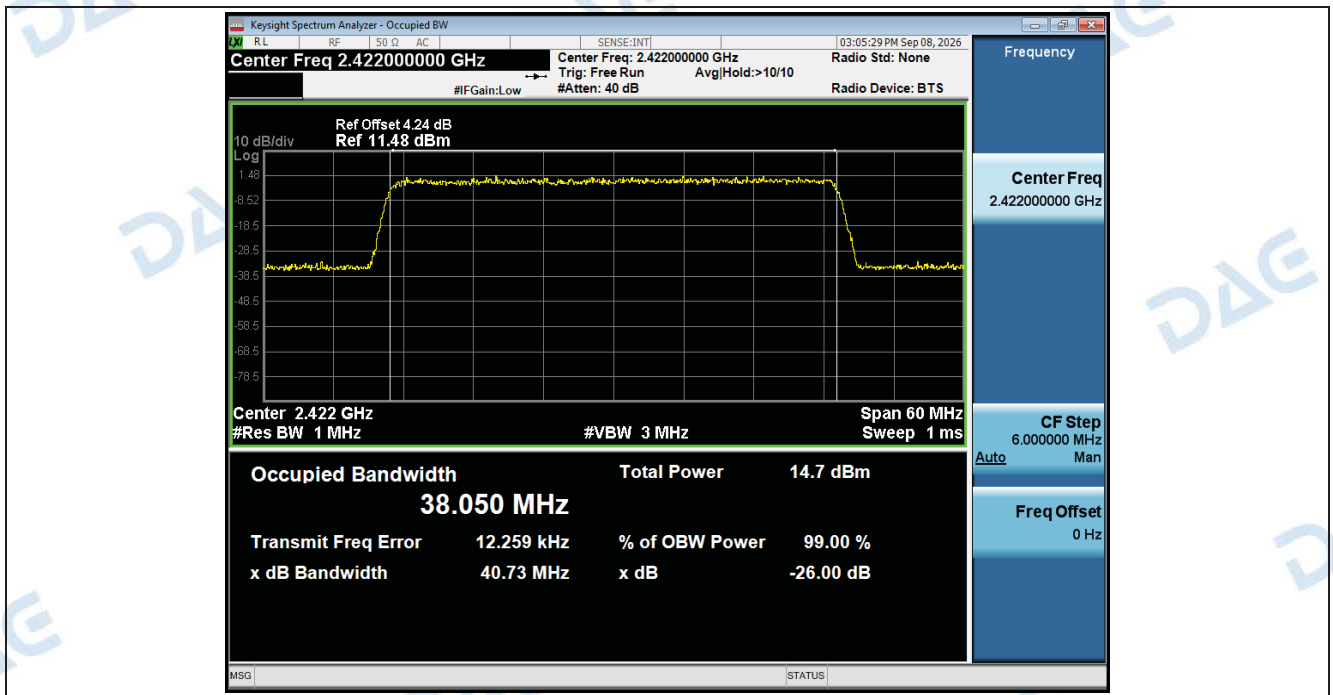
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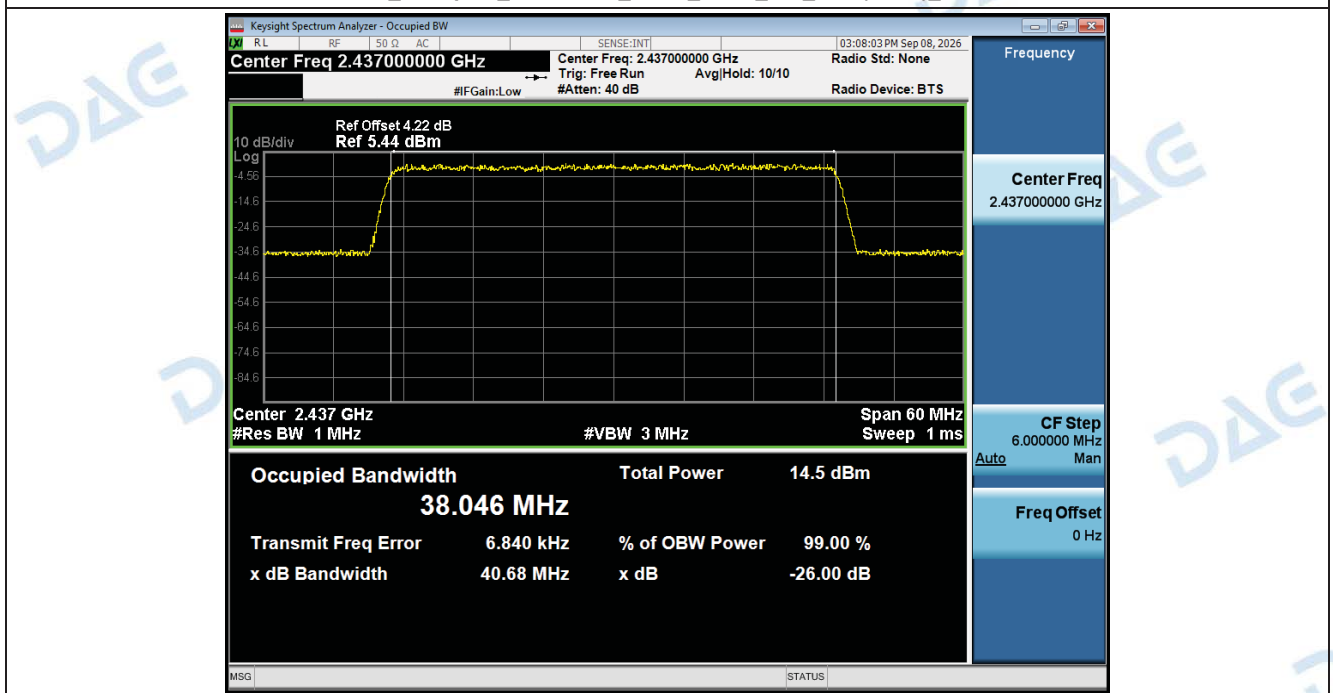
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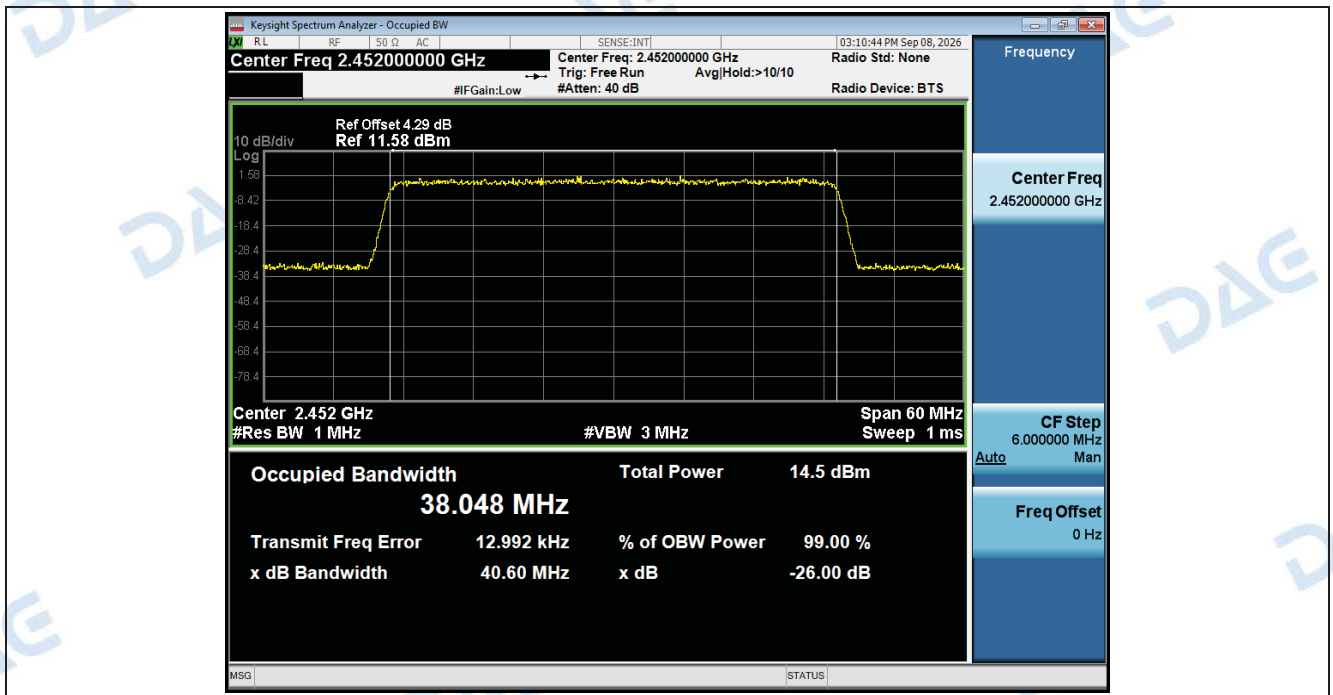
99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422



99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2437



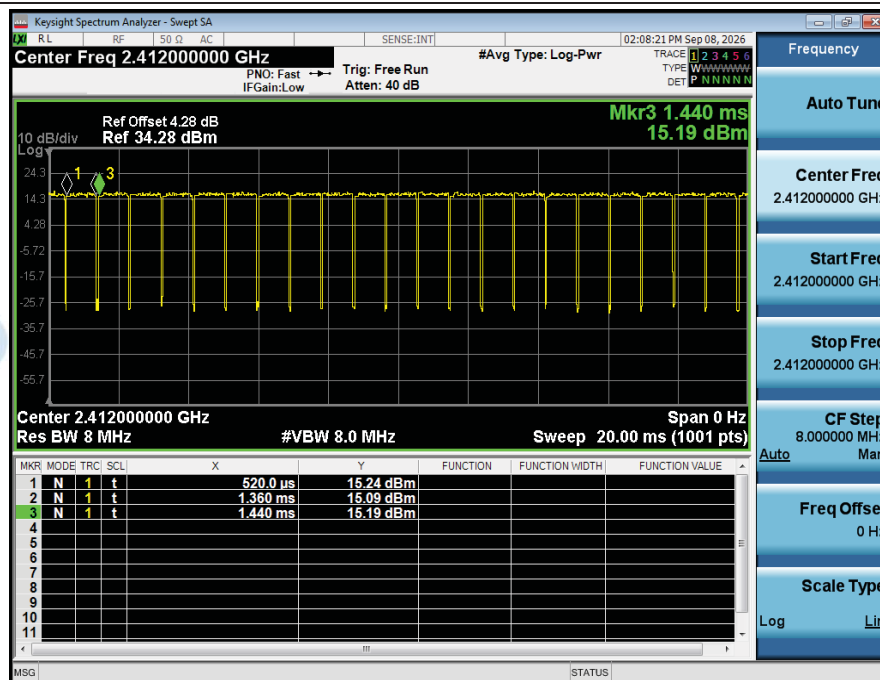
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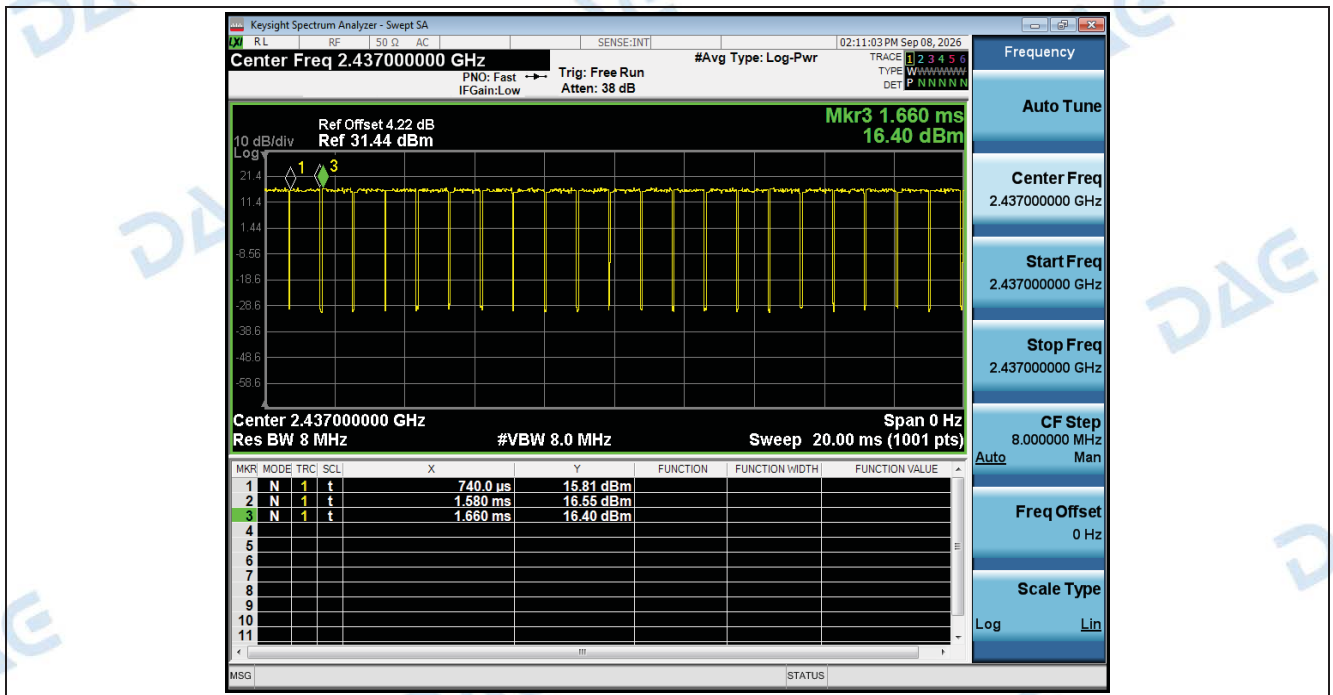
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	93.48	0.29
NVNT	ANT1	802.11b	2437.00	93.48	0.29
NVNT	ANT1	802.11b	2462.00	93.48	0.29
NVNT	ANT1	802.11g	2412.00	84.62	0.73
NVNT	ANT1	802.11g	2437.00	84.62	0.73
NVNT	ANT1	802.11g	2462.00	83.33	0.79
NVNT	ANT1	802.11n(HT20)	2412.00	81.82	0.87
NVNT	ANT1	802.11n(HT20)	2437.00	83.33	0.79
NVNT	ANT1	802.11n(HT20)	2462.00	81.82	0.87
NVNT	ANT1	802.11ax(HE20)	2412.00	75.00	1.25
NVNT	ANT1	802.11ax(HE20)	2437.00	62.50	2.04
NVNT	ANT1	802.11ax(HE20)	2462.00	75.00	1.25
NVNT	ANT1	802.11n(HT40)	2422.00	75.00	1.25
NVNT	ANT1	802.11n(HT40)	2437.00	85.71	0.67
NVNT	ANT1	802.11n(HT40)	2452.00	75.00	1.25
NVNT	ANT1	802.11ax(HE40)	2422.00	87.50	0.58
NVNT	ANT1	802.11ax(HE40)	2437.00	62.50	2.04
NVNT	ANT1	802.11ax(HE40)	2452.00	77.78	1.09

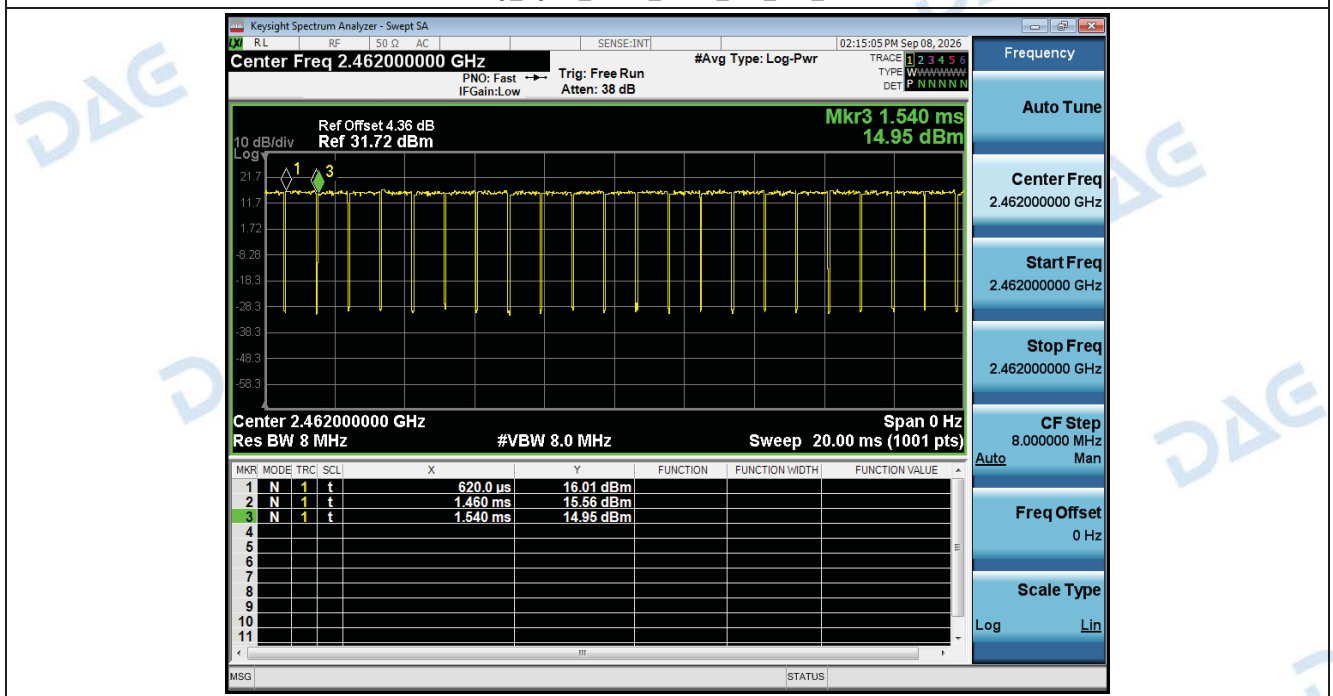
Duty_Cycle_NVNT_ANT1_802_11b_2412



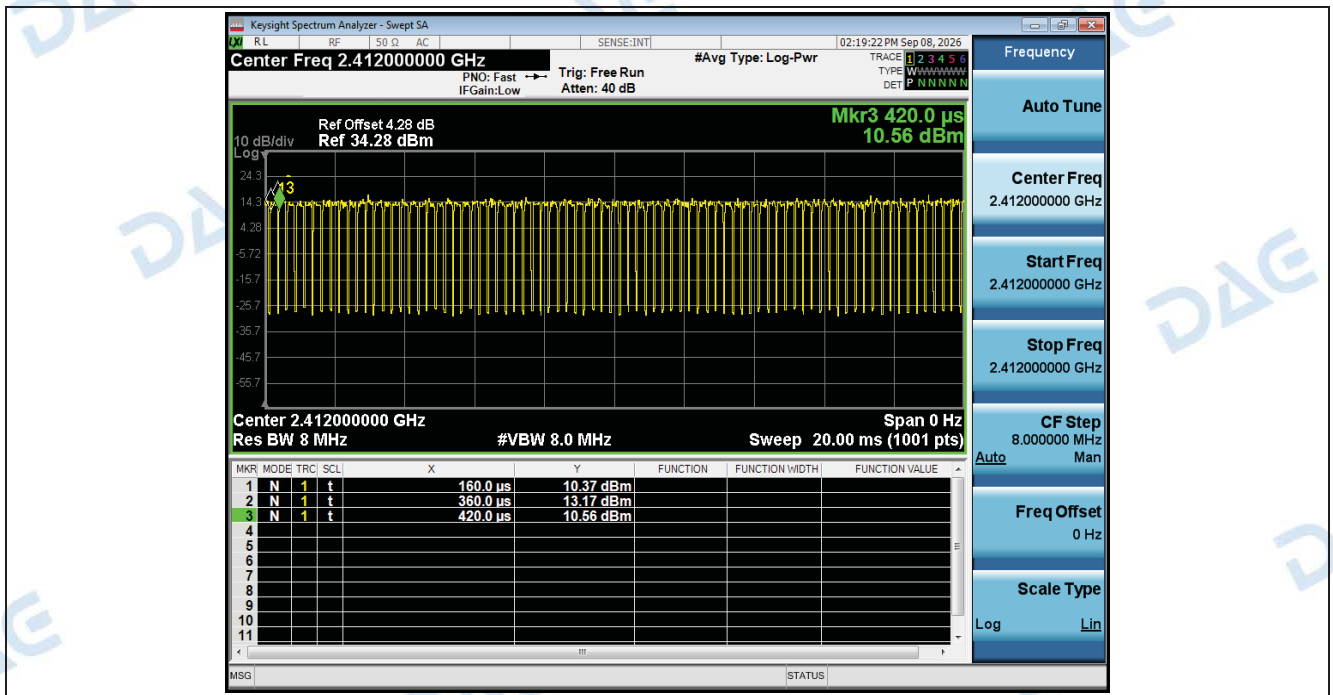
Duty_Cycle_NVNT_ANT1_802_11b_2437



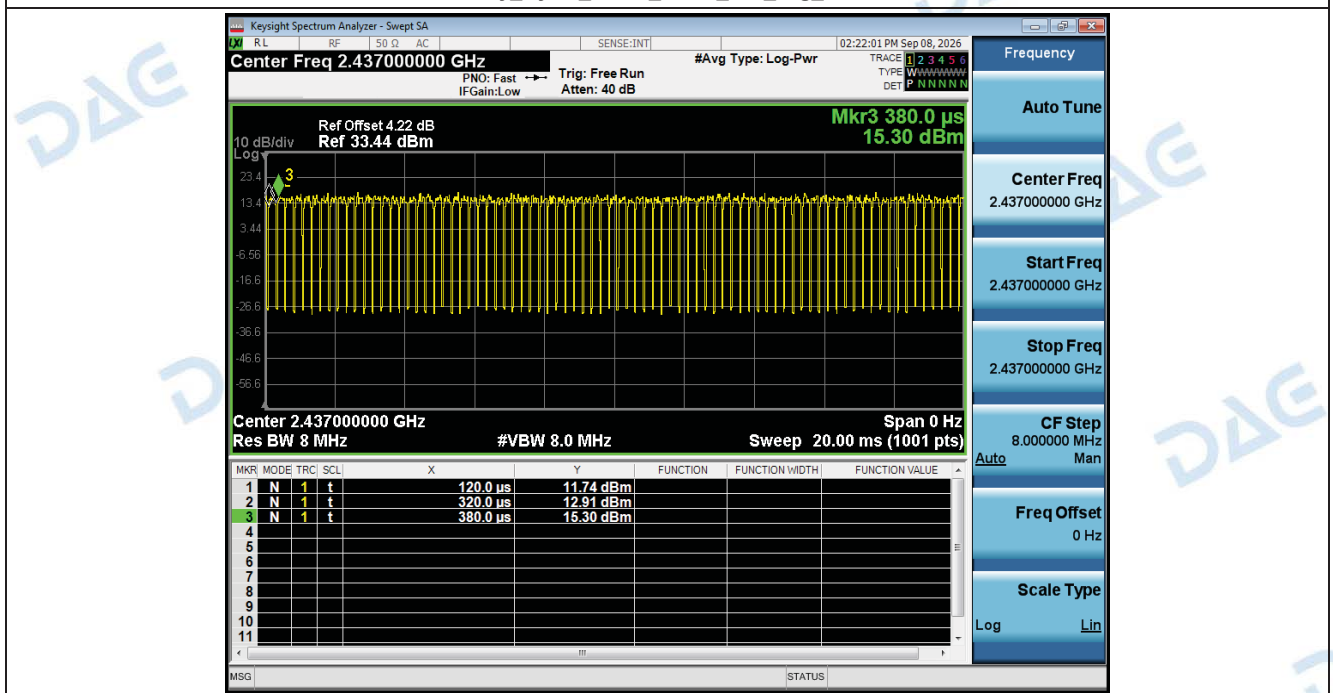
Duty_Cycle_NVNT_ANT1_802_11b_2462



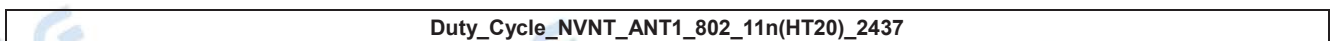
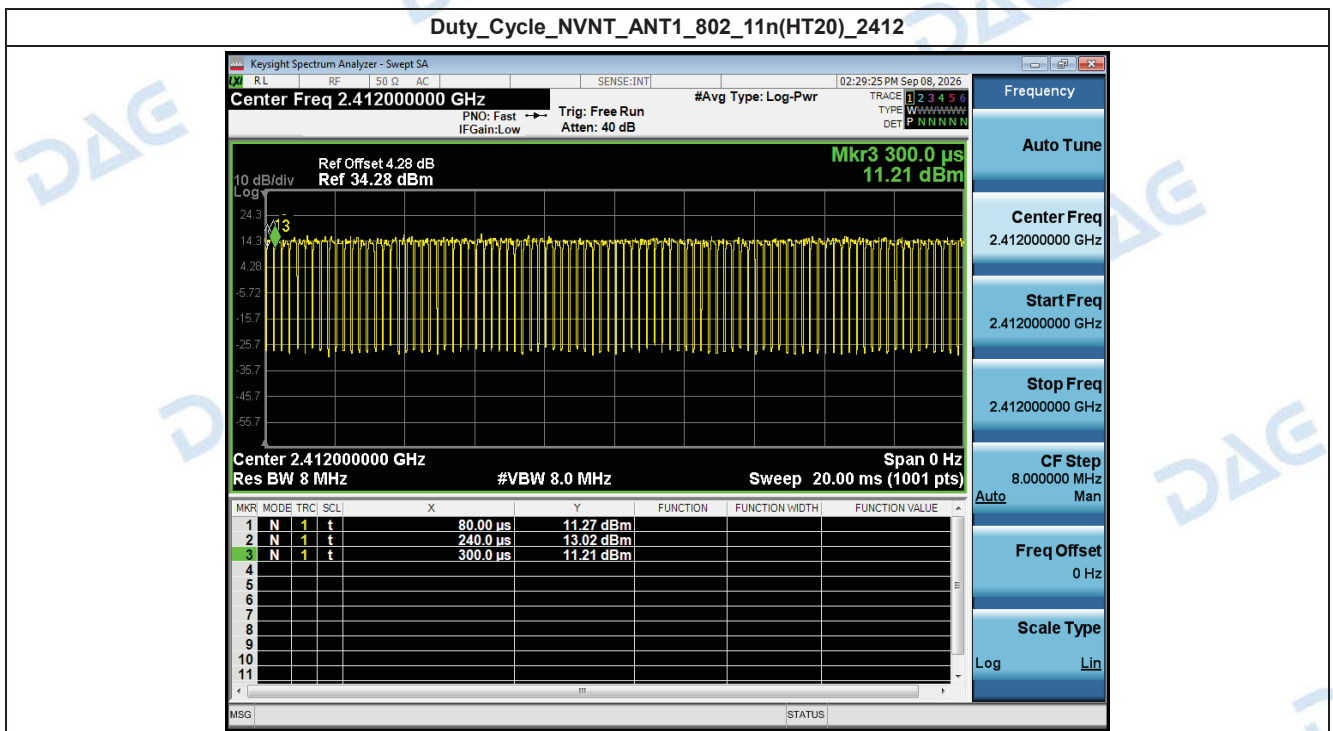
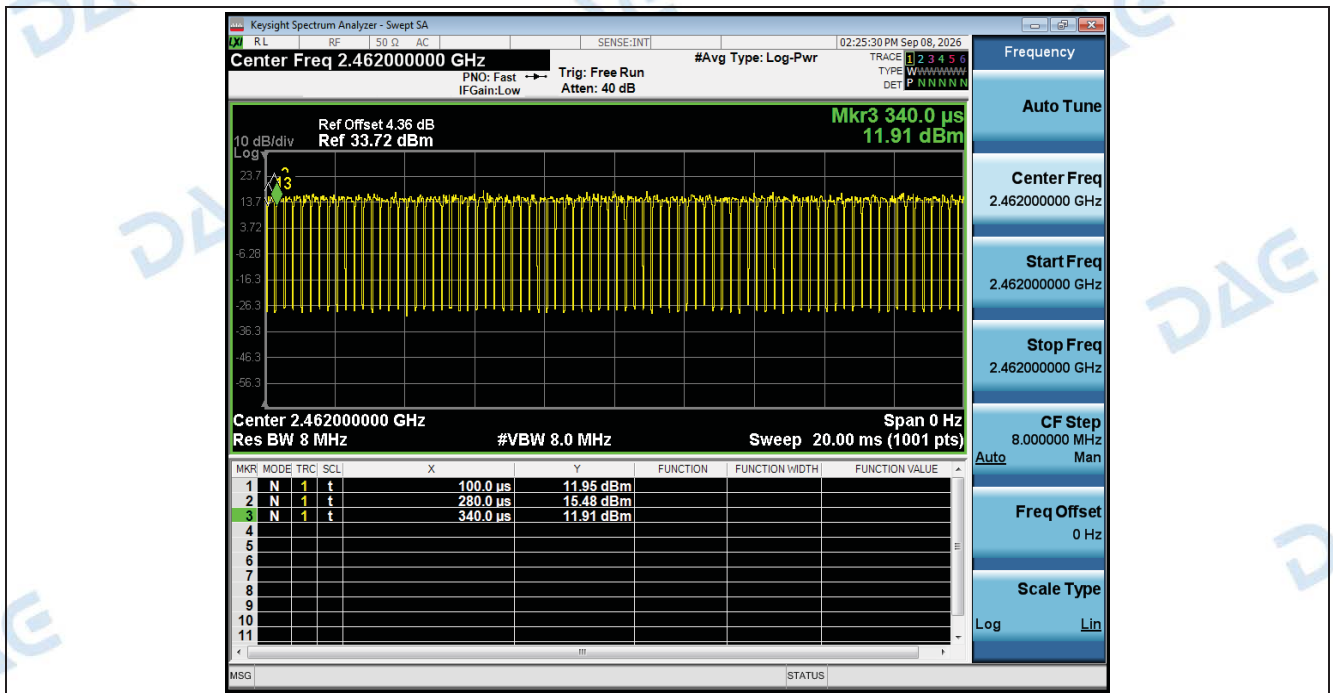
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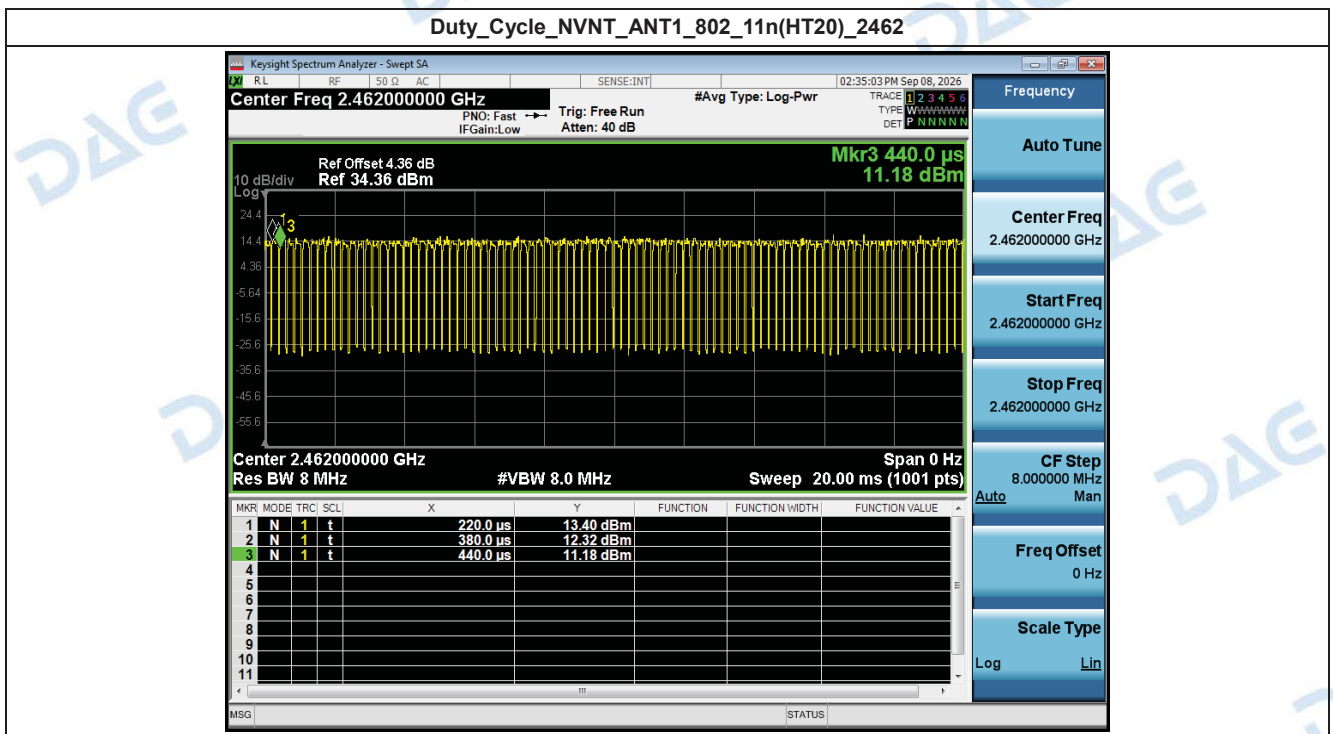
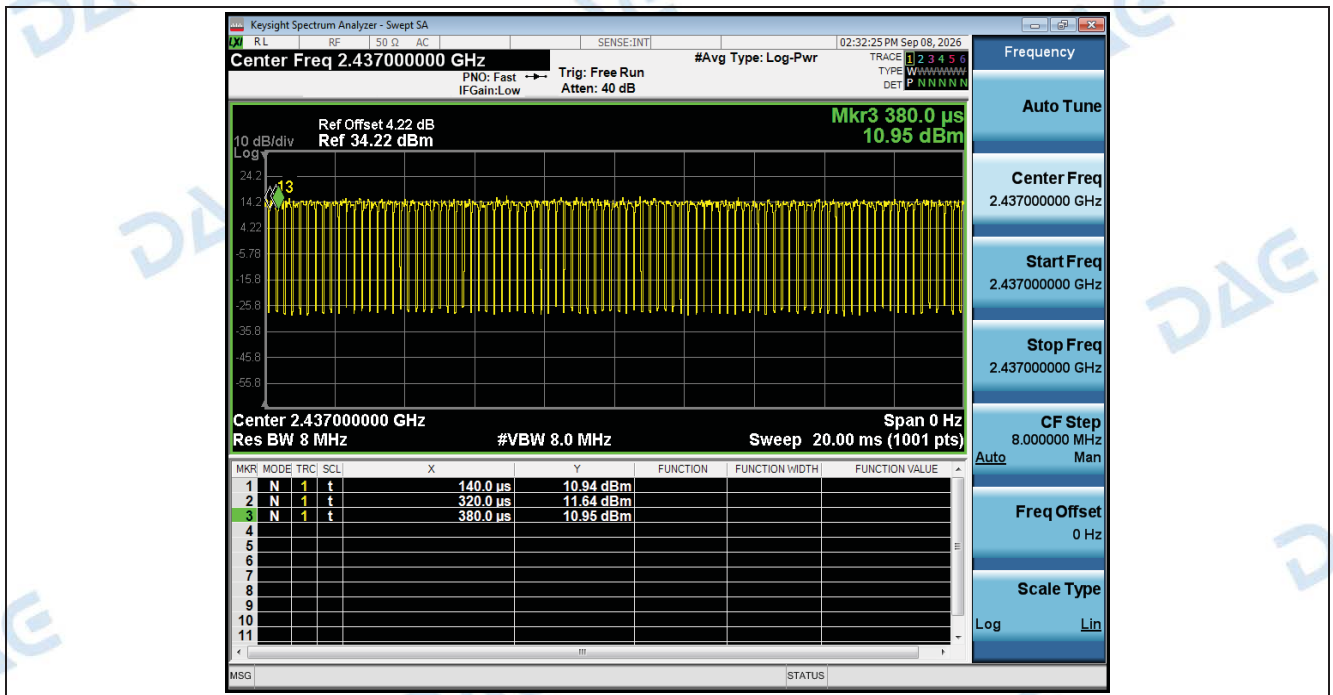


Duty_Cycle_NVNT_ANT1_802_11g_2437

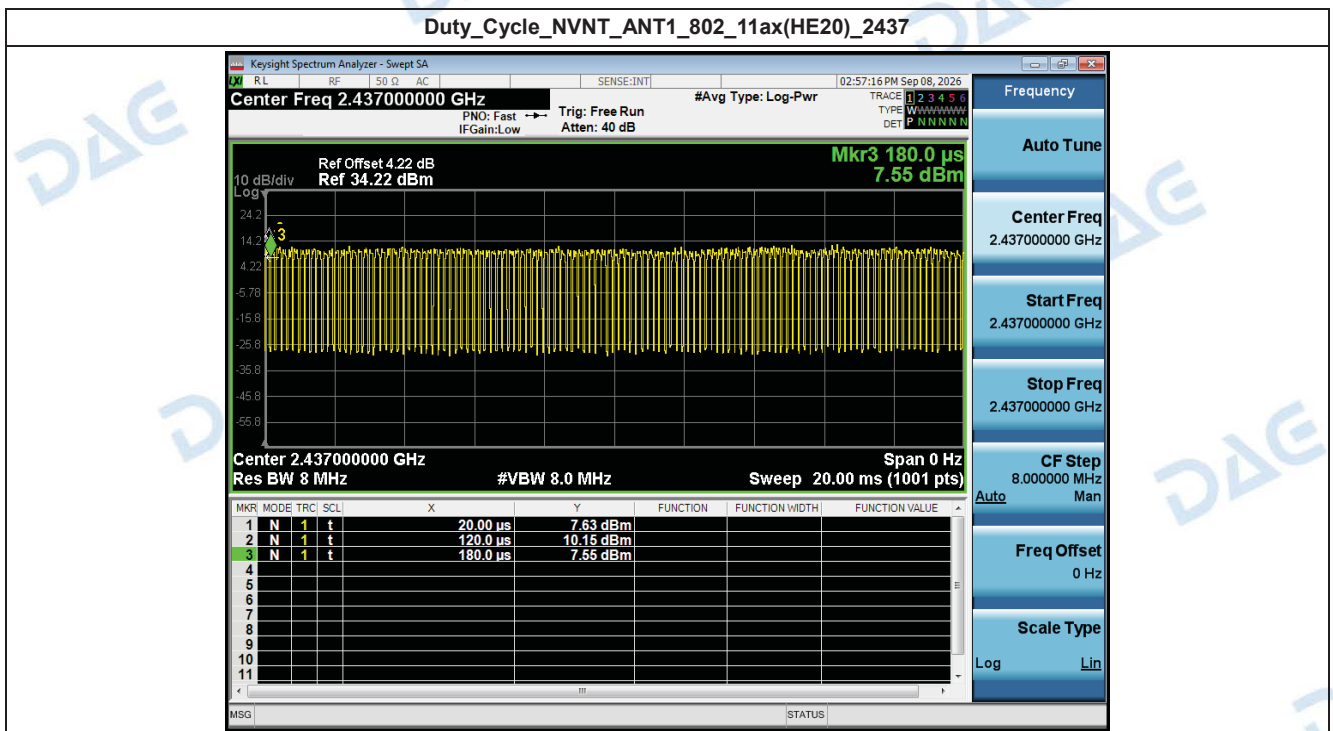
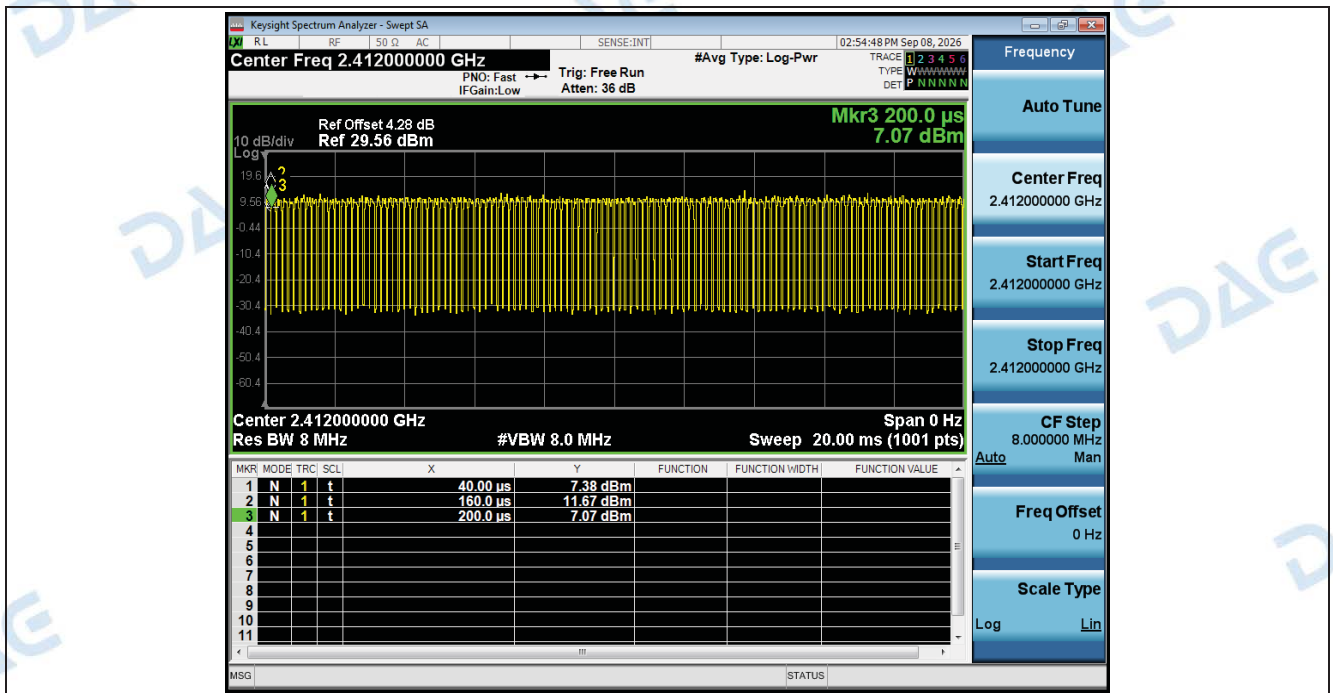


Duty_Cycle_NVNT_ANT1_802_11g_2462

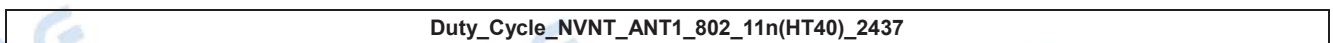
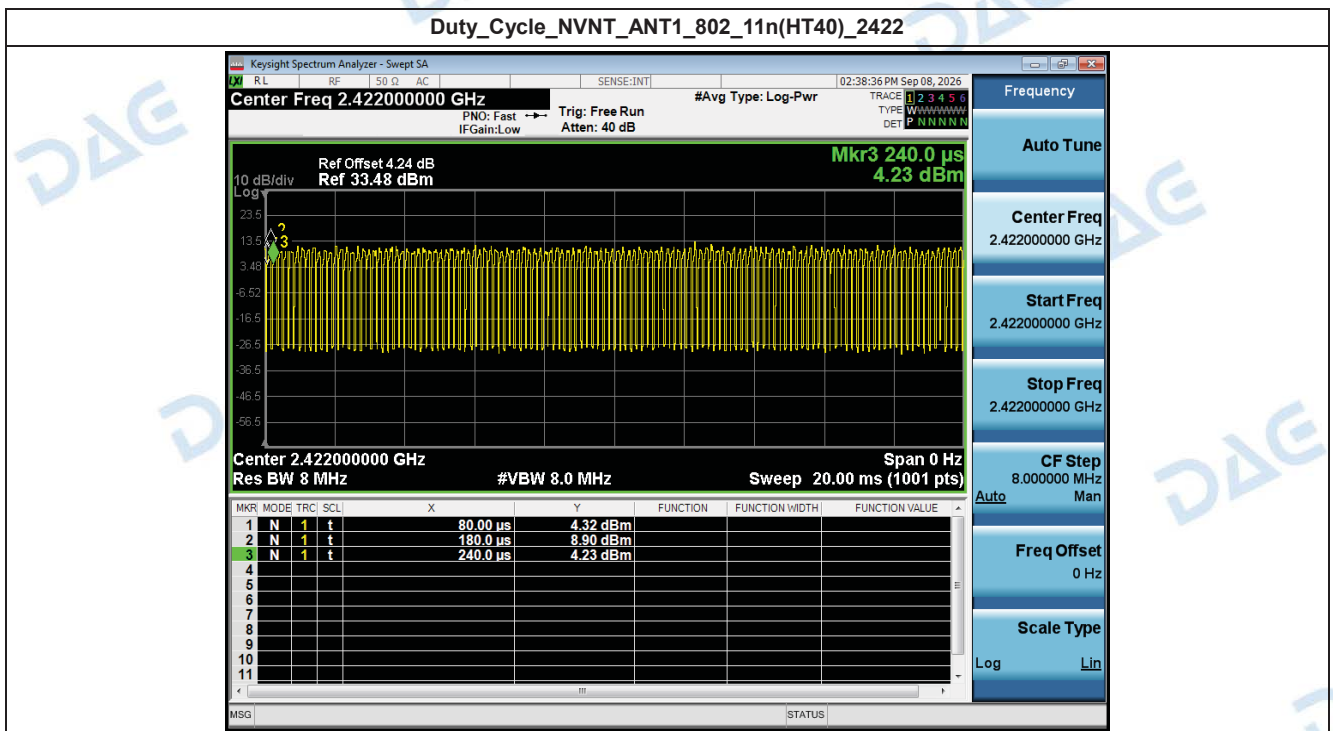
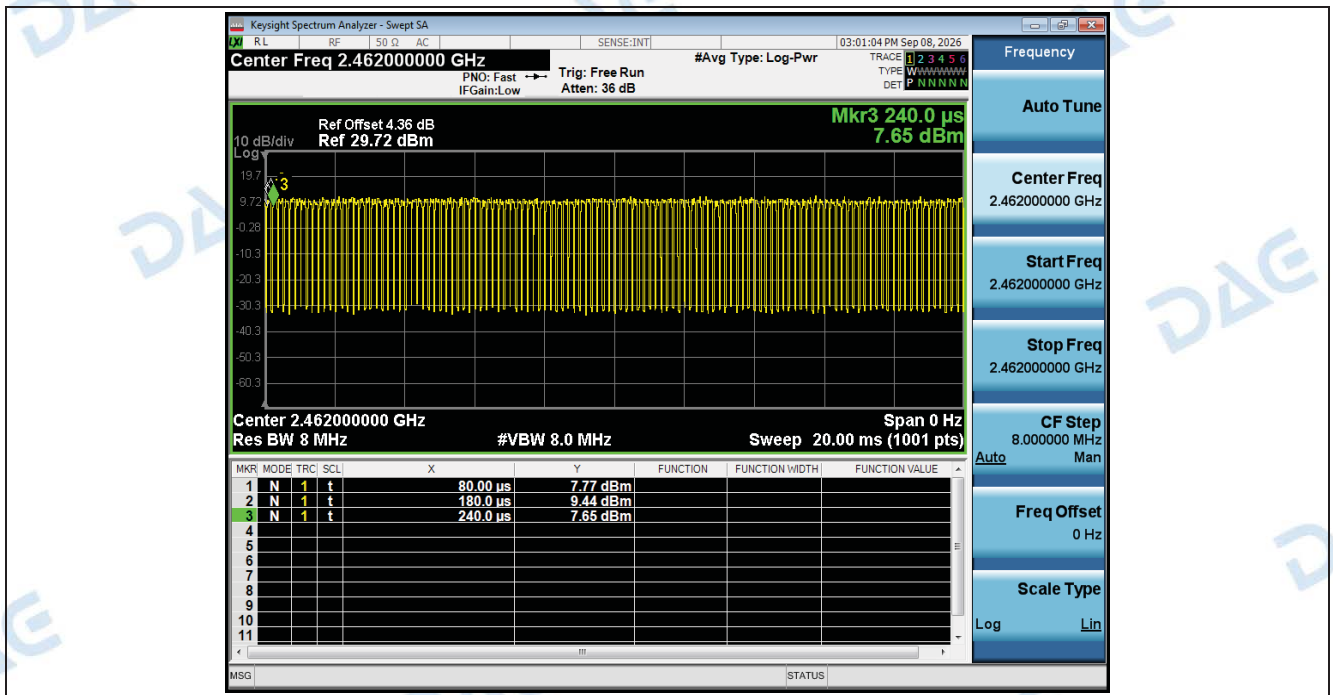


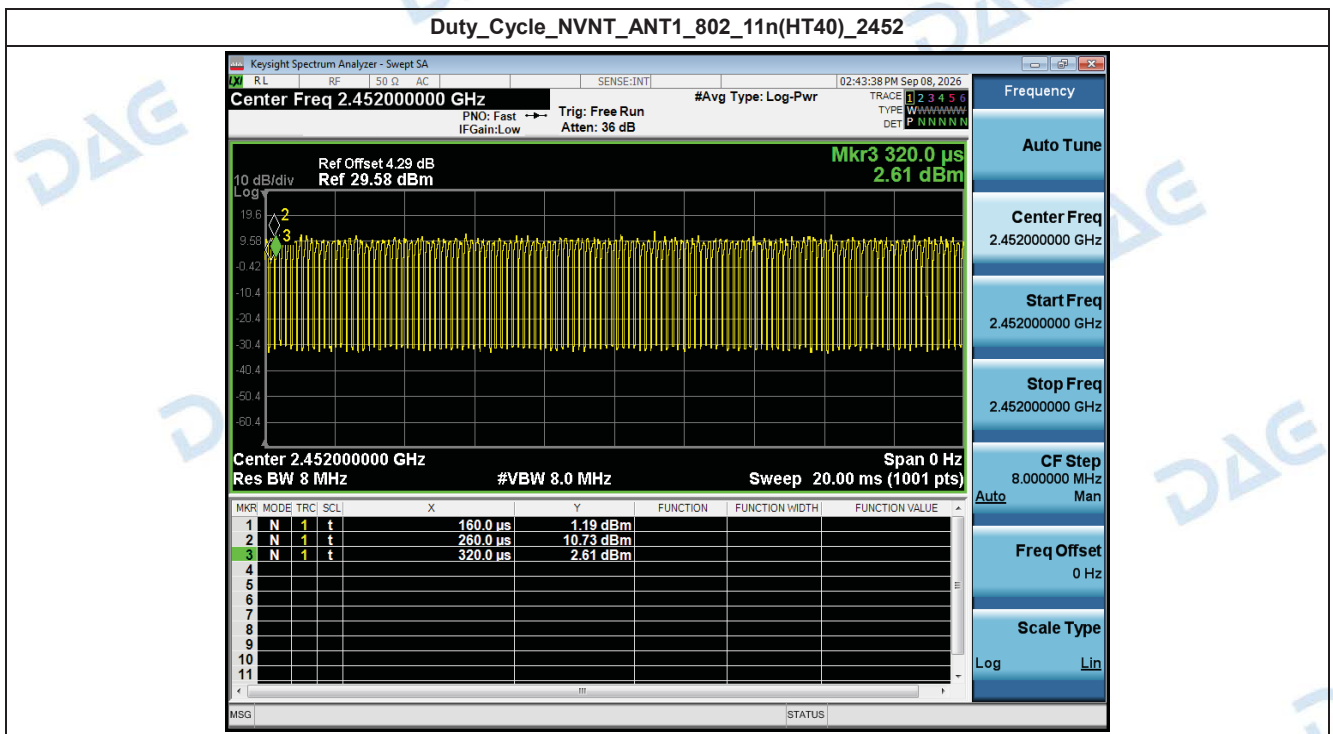
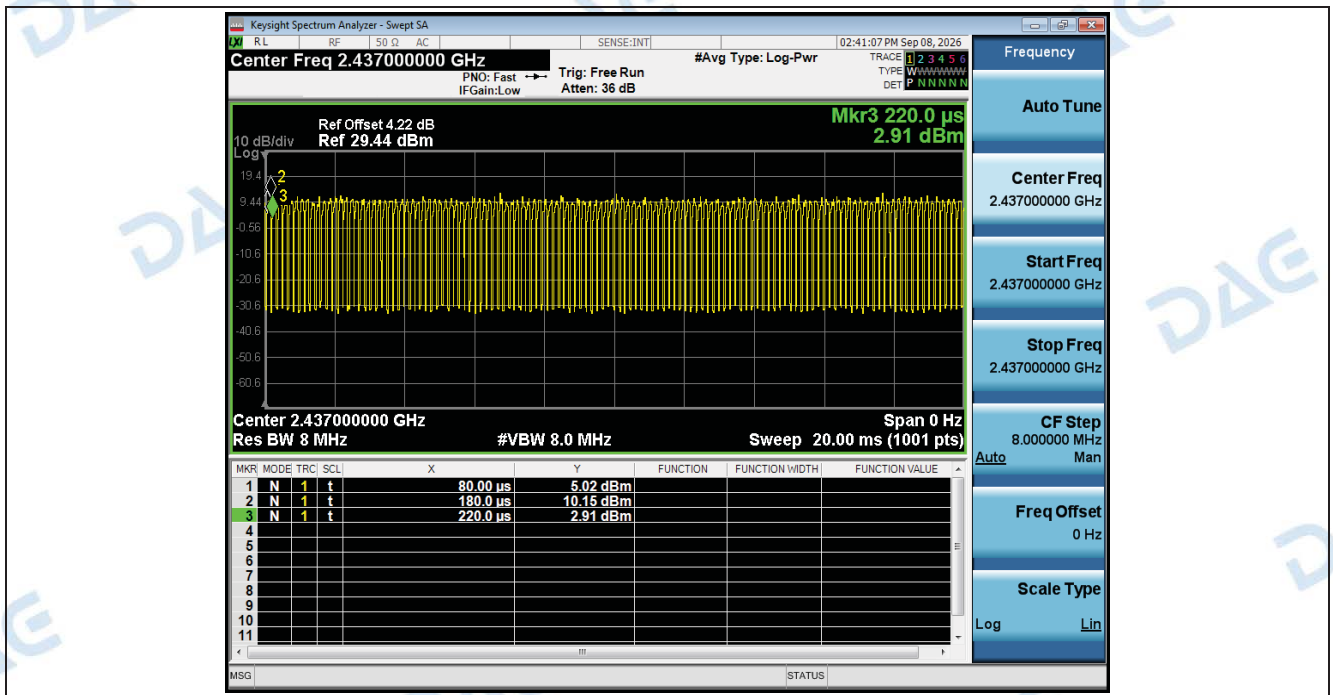


Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2412

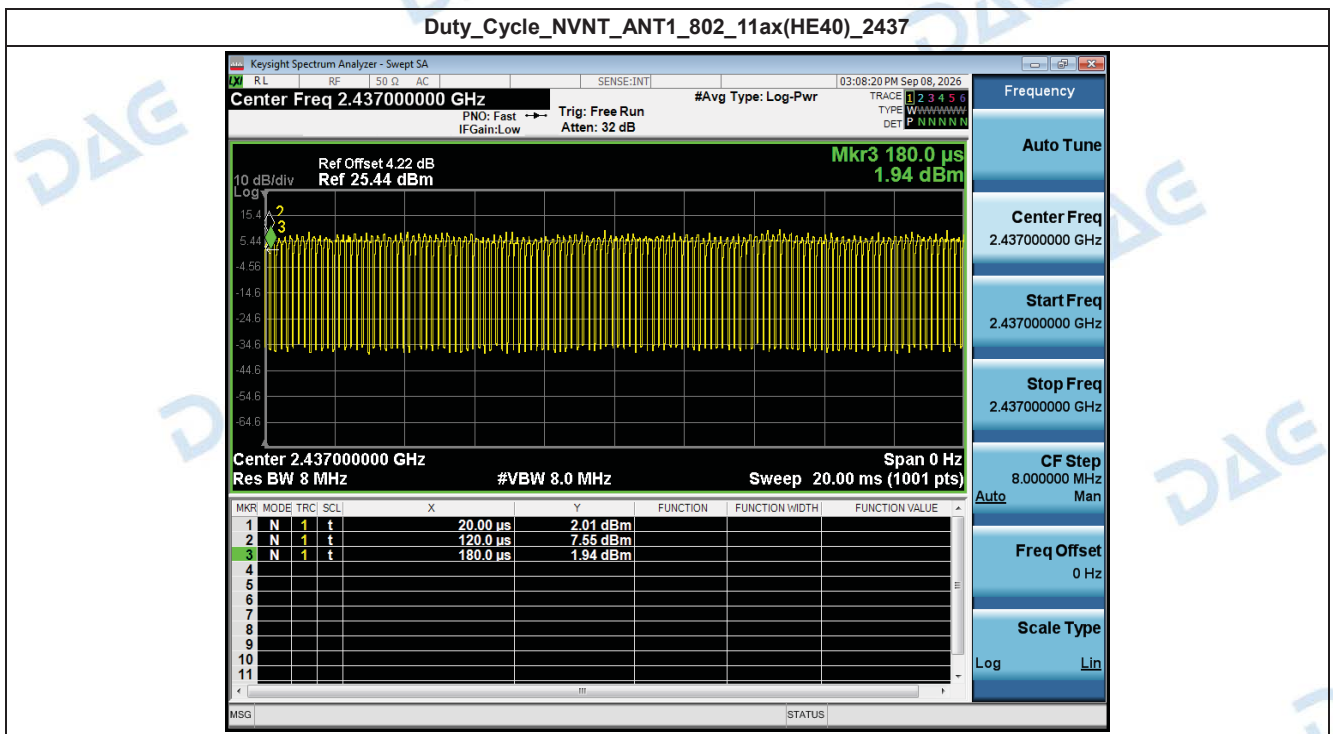
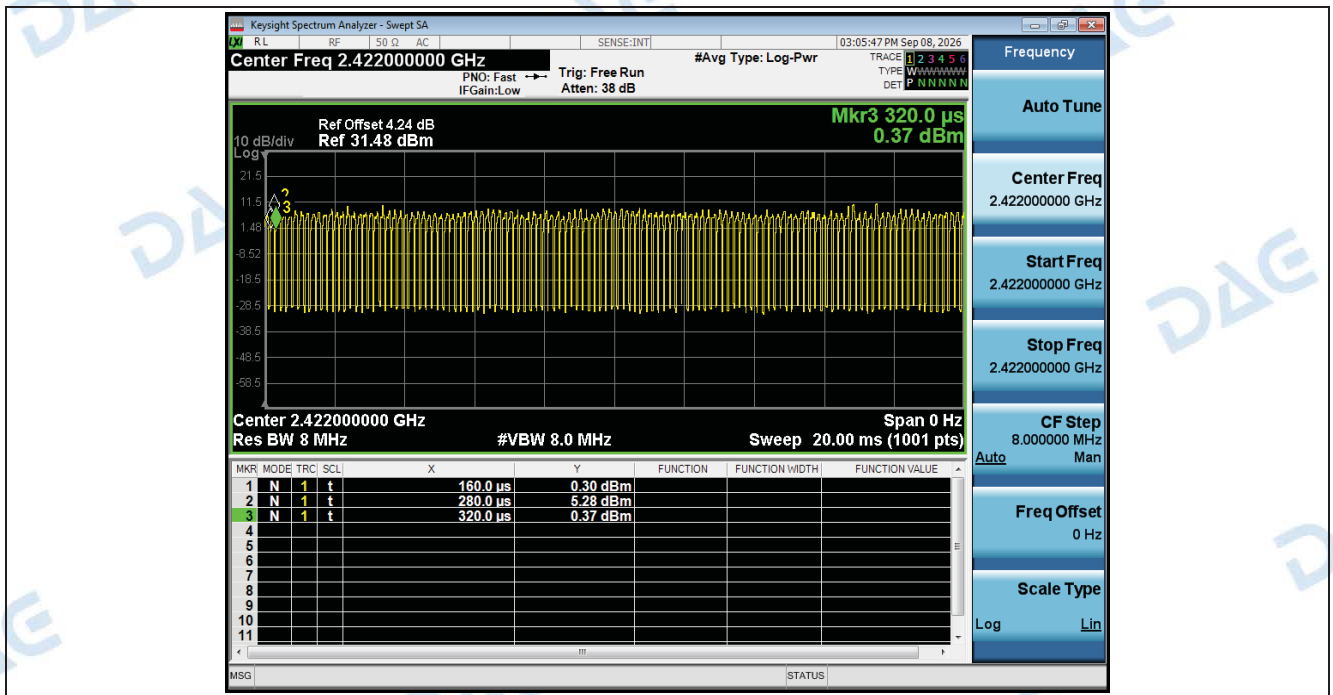


Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2462

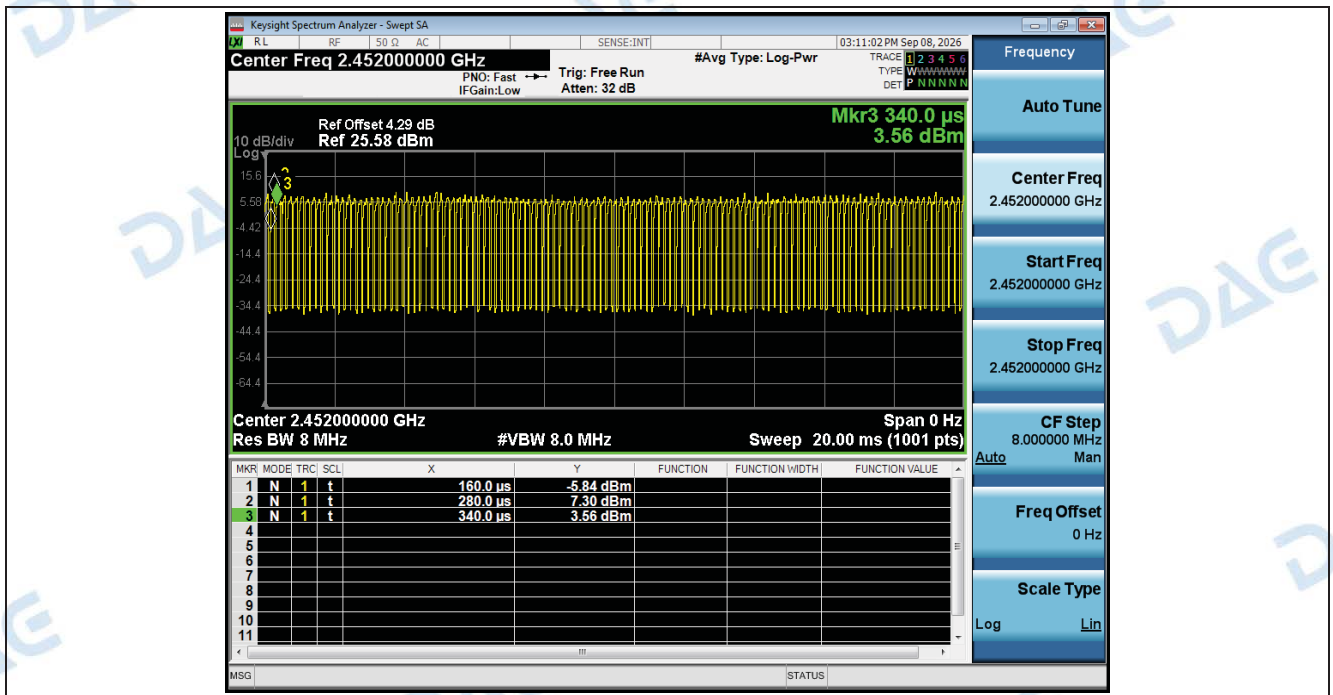




Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2422



Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2452



4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	18.41	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	18.08	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	18.07	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	17.58	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	17.23	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	17.13	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	16.35	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	16.14	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	16.13	30	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	Peak	15.99	30	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	Peak	15.37	30	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	Peak	15.36	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	14.58	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	14.37	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	14.29	30	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	Peak	13.72	30	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	Peak	13.47	30	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	Peak	13.42	30	Pass