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Report Template Version: V06

Report Template Revision Date: 2026-01-30

TEST REPORT

Report No.: CQASZ20260400834E-01
Applicant: Shenzhen Hollyland Technology Co.,Ltd.
Address of Applicant: 8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China

Equipment Under Test (EUT):

Product: WIRELESS VIDEO TRANSMISSION SYSTEM

Model No.: Pyro S

Test Model No.: Pyro S

Brand Name:  **HOLLYLAND**

FCC ID: 2ADZC-9831R1

Standards: 47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2020

Date of Receipt: 2026-04-23

Date of Test: 2026-04-23 to 2026-06-01

Date of Issue: 2026-6-5

Test Result : **PASS***

***In the configuration tested, the EUT complied with the standards specified above**

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260400834E-01	Rev.01	Initial report	

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10- 2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a- 2024	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Applicant:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China
Manufacturer:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Manufacturer:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China
Factory:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Factory:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China

4.2 General Description of EUT

Product Name:	WIRELESS VIDEO TRANSMISSION SYSTEM
Model No.:	Pyro S
Test Model No.:	Pyro S
Trade Mark:	
Software Version:	V78
Hardware Version:	S2.0.0.4
Power Supply:	Power supply DC12V form adapter Adapter: Model:GQ24-120200-AX Input:100-240V~50/60Hz 1.0A Max Output:12.0V=2.0A 24.0W
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report. ☒ Simultaneous TX is not supported.

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps

	IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	Cmd
Antenna Type:	SMAJ antenna
Antenna Gain:	ANT1:1.64dBi ANT2:1.64dBi ANT1+ANT2:4.65dBi

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

Note:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.4 Test Environment and Mode

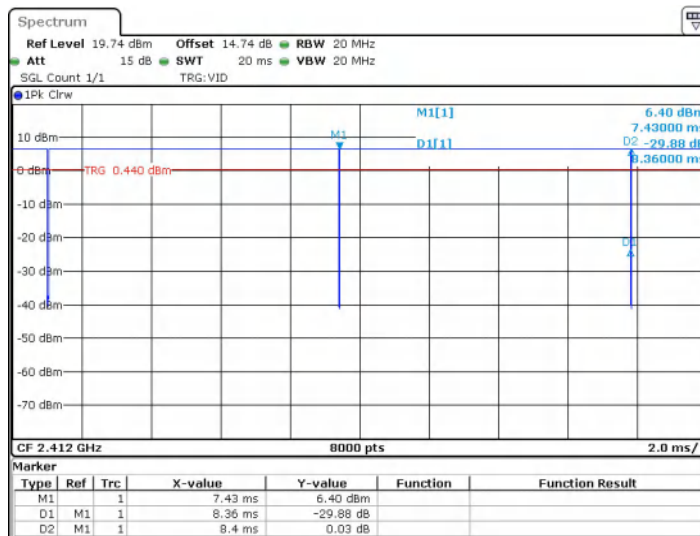
Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandwidth and data rate, etc.
EUT Power level:	Class15
Run Software:	
<pre> /opt/firmware/wificonf # /opt/firmware/wificonf # /opt/firmware/wificonf # /opt/config/mp_tx.sh wlan1 165 0 160 ab 60 65 cp: can't stat '/opt/config/rtwpriv': No such file or directory wlan1 mp_ctx:Error: can't tx ,not in MP mode. wlan1 mp_start:mp_start ok wlan1 mp_channel:Change channel 1 to channel 165 wlan1 mp_bandwidth:Change BW 0 to BW 0 wlan1 mp_ant_tx:switch Tx antenna to ab wlan1 mp_rate:Set data rate to 160 index 44 antenna is ab wlan1 mp_txpower:patha=60,pathb=65 wlan1 mp_ctx: Start continuous DA=ffffffff len=1500 count=0 /opt/firmware/wificonf # </pre>	

Operated Mode for Worst Duty Cycle:				
Test Mode	On time [Ton] (ms)	Period [Ttotal] ms)	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	8.36	8.40	99.52	0.02
IEEE802.11g	1.38	1.43	96.50	0.15
IEEE802.11n (HT20)	1.29	1.33	96.99	0.13

Remark:

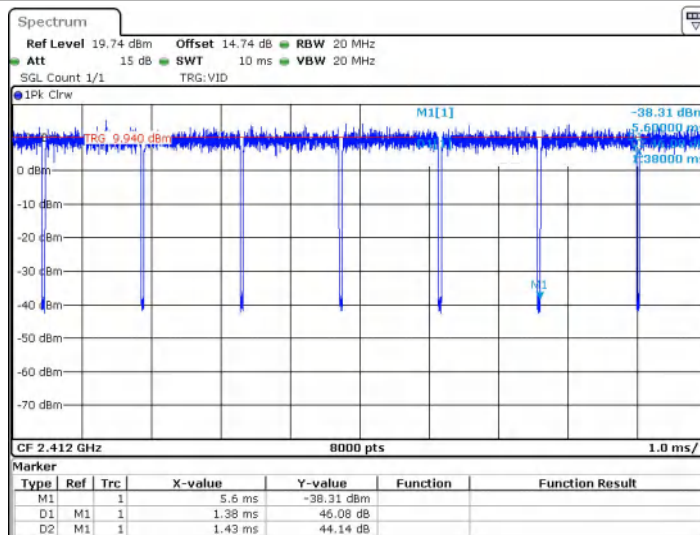
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

Test Graph_IEEE802.11b Duty Cycle:



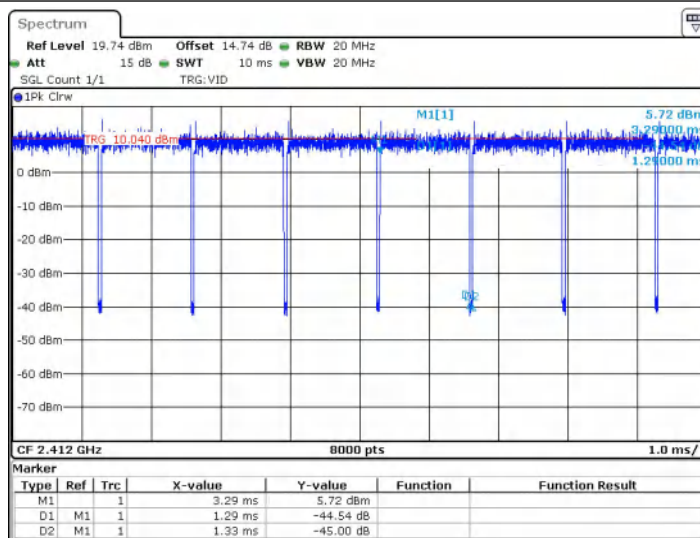
Date: 30 MAY 2026 20:54:39

Test Graph_IEEE802.11g Duty Cycle:



Date: 30 MAY 2026 20:59:31

Test Graph_ IEEE802.11 n (HT20) Duty Cycle:



Date: 30 MAY 2026 21:05:20

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

4.6 Test Location

All tests were performed at:

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD 102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong, People's Republic of China, 518000

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

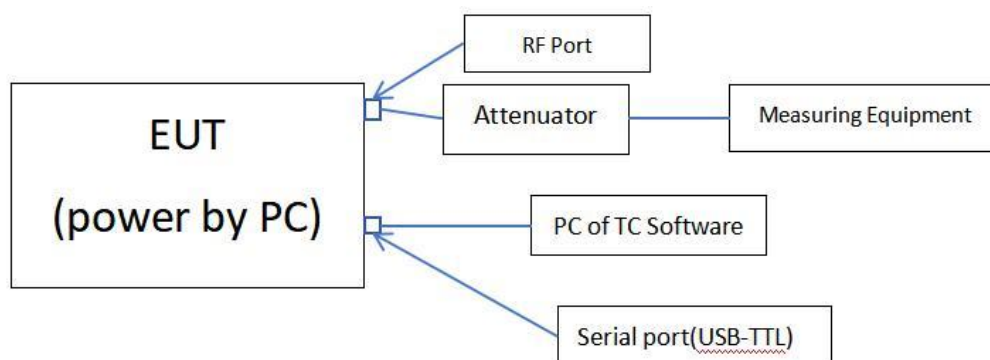
• **A2LA (Certificate No. 4742.01)**

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Test configuration



4.9 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

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

4.10 Deviation from Standards

None.

4.11 Abnormalities from Standard Conditions

None.

4.12 Other Information Requested by the Customer

None.

4.13 Equipment List

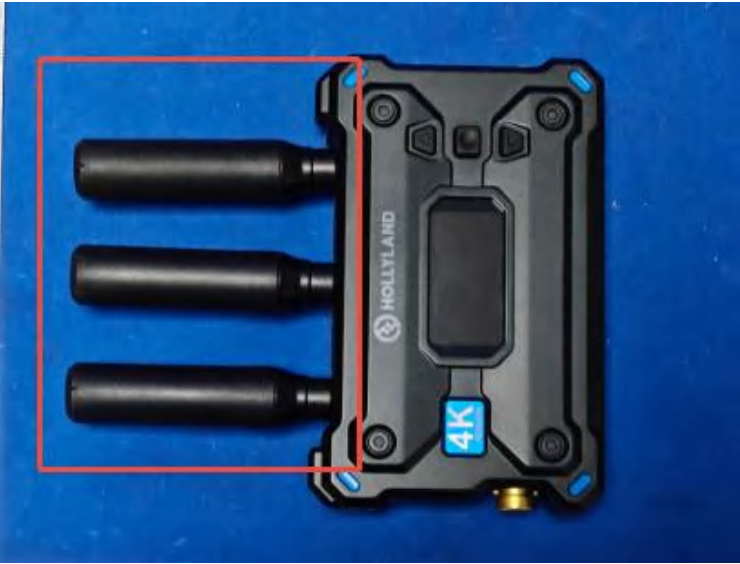
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU26	CQA-038	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU40	CQA-075	2025/9/1	2026/8/31
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2025/9/1	2026/8/31
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2025/9/1	2026/8/31
Preamplifier	EMCI	EMC184055SE	CQA-089	2025/9/1	2026/8/31
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2025/9/1	2026/8/31
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2025/9/1	2026/8/31
Antenna Connector	CQA	RFC-01	CQA-080	2025/9/1	2026/8/31
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2025/9/1	2026/8/31
Power meter	R&S	NRVD	CQA-029	2025/9/1	2026/8/31
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2025/9/1	2026/8/31
EMI Test Receiver	R&S	ESR7	CQA-005	2025/9/1	2026/8/31
LISN	R&S	ENV216	CQA-003	2025/9/1	2026/8/31
Coaxial cable	CQA	N/A	CQA-C009	2025/9/1	2026/8/31
DC power	KEYSIGHT	E3631A	CQA-028	2025/9/1	2026/8/31

Test software:

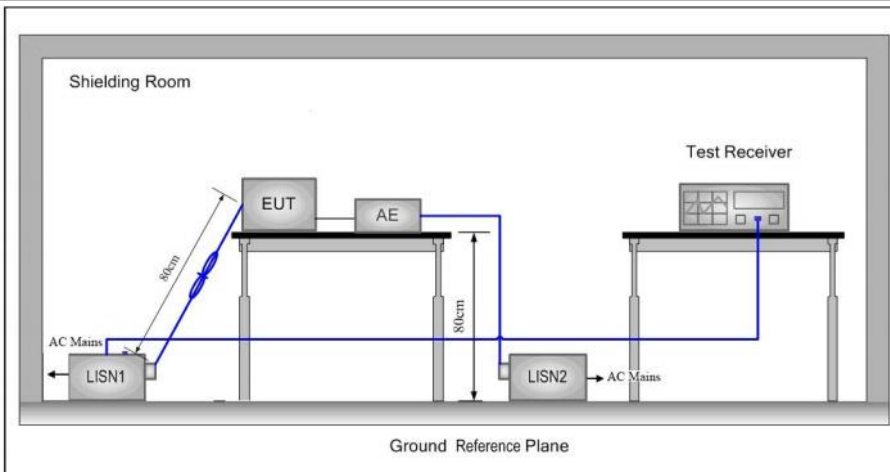
	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is SMAJ antenna . The connection/connection type between the antenna to the EUT's antenna port is: unique coupling. This is either permanently attachment or a unique coupling that satisfies the requirement.	

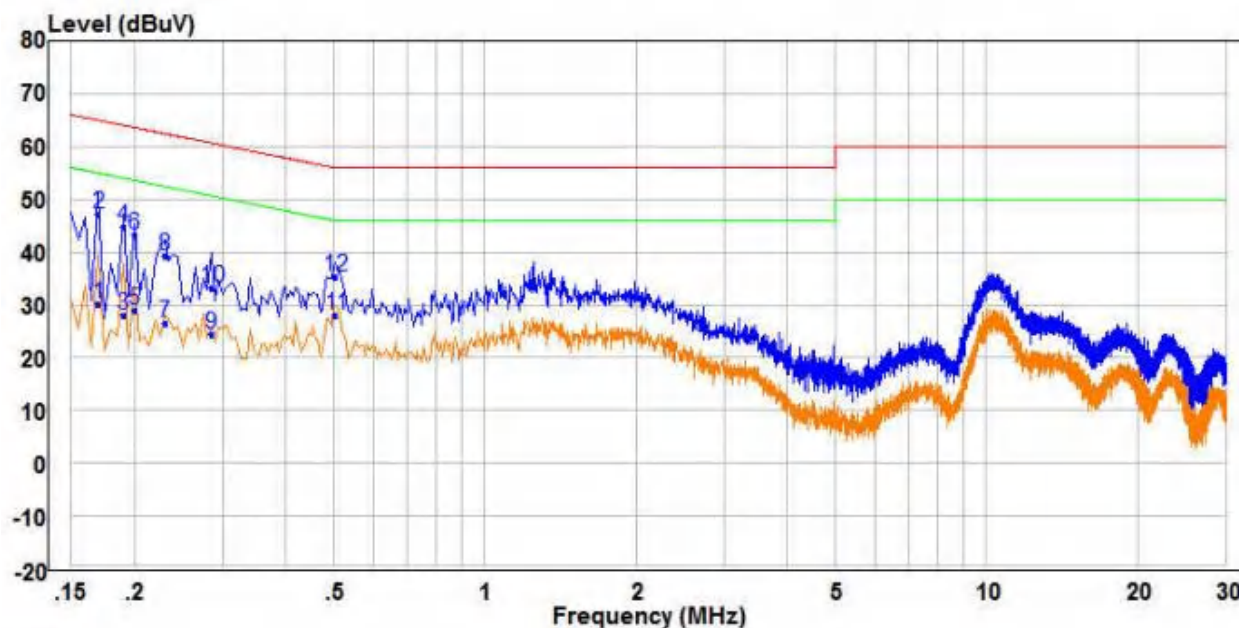
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2020 on conducted measurement.		
Test Setup:			

Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass

Measurement Data

Live Line:

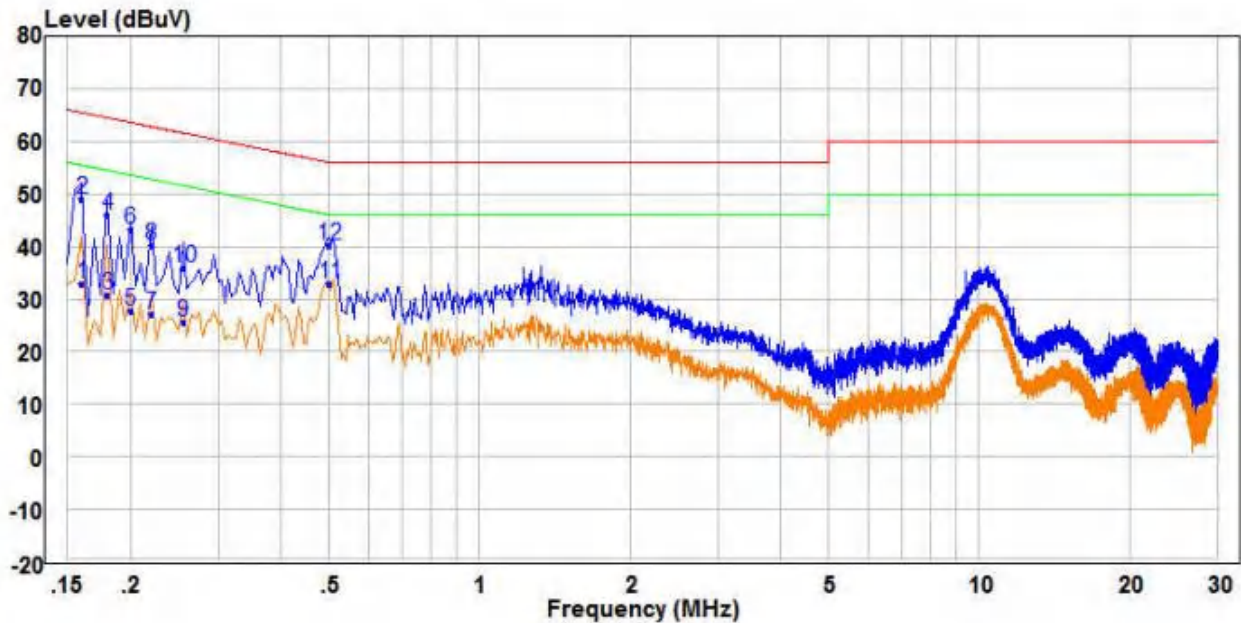


	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.170	20.41	9.66	30.07	54.96	-24.89	Average	Line
2 PP	0.170	37.40	9.66	47.06	64.96	-17.90	QP	Line
3	0.190	18.51	9.63	28.14	54.04	-25.90	Average	Line
4	0.190	35.11	9.63	44.74	64.04	-19.30	QP	Line
5	0.200	19.26	9.61	28.87	53.61	-24.74	Average	Line
6	0.200	33.66	9.61	43.27	63.61	-20.34	QP	Line
7	0.230	16.81	9.57	26.38	52.45	-26.07	Average	Line
8	0.230	29.82	9.57	39.39	62.45	-23.06	QP	Line
9	0.285	14.89	9.51	24.40	50.67	-26.27	Average	Line
10	0.285	23.69	9.51	33.20	60.67	-27.47	QP	Line
11 AV	0.505	18.21	9.71	27.92	46.00	-18.08	Average	Line
12	0.505	25.74	9.71	35.45	56.00	-20.55	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral Line:

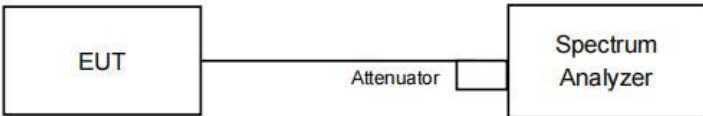


	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.160	23.22	9.68	32.90	55.46	-22.56	Average	Neutral
2	0.160	39.18	9.68	48.86	65.46	-16.60	QP	Neutral
3	0.180	21.22	9.64	30.86	54.49	-23.63	Average	Neutral
4	0.180	36.29	9.64	45.93	64.49	-18.56	QP	Neutral
5	0.200	18.11	9.61	27.72	53.61	-25.89	Average	Neutral
6	0.200	33.48	9.61	43.09	63.61	-20.52	QP	Neutral
7	0.220	17.53	9.58	27.11	52.82	-25.71	Average	Neutral
8	0.220	30.68	9.58	40.26	62.82	-22.56	QP	Neutral
9	0.255	15.94	9.53	25.47	51.59	-26.12	Average	Neutral
10	0.255	26.43	9.53	35.96	61.59	-25.63	QP	Neutral
11 PP	0.500	23.09	9.70	32.79	46.00	-13.21	Average	Neutral
12 QP	0.500	30.64	9.70	40.34	56.00	-15.66	QP	Neutral

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

5.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	<i>Setup for Power meter measurement method</i>  <i>Setup for Spectrum analyser measurement method</i> 
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	30dBm
Test Results:	Pass

Test Result

ANT1:

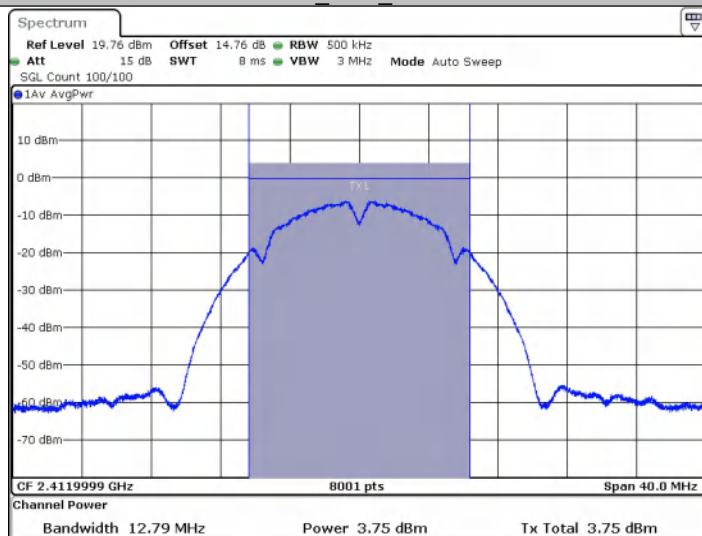
Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	3.75	≤30.00	PASS
	2437	5.36	≤30.00	PASS
	2462	5.77	≤30.00	PASS
11G	2412	3.61	≤30.00	PASS
	2437	5.21	≤30.00	PASS
	2462	5.56	≤30.00	PASS
11N20SISO	2412	3.41	≤30.00	PASS
	2437	5.02	≤30.00	PASS
	2462	5.44	≤30.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

When Duty cycle >98%, D.C.F is not required.

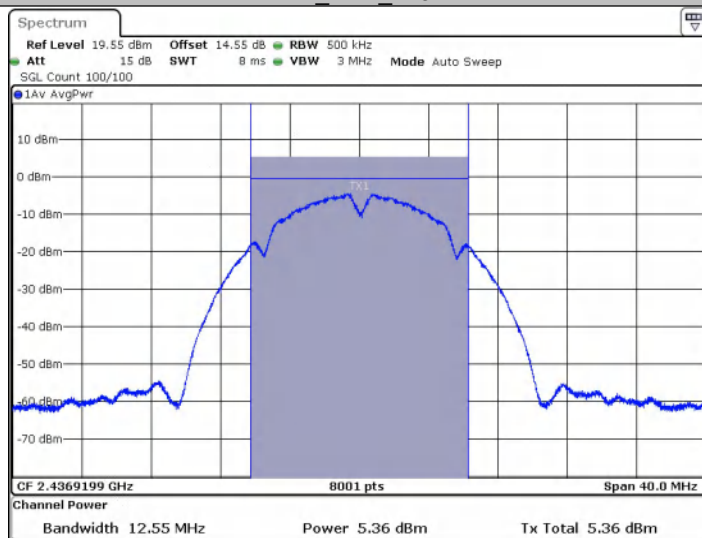
Test Graphs

11B_Ant1_2412



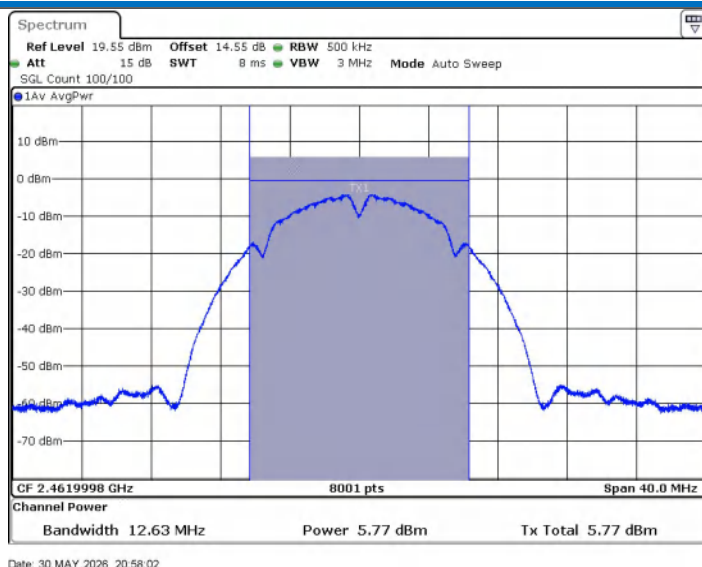
Date: 30 MAY 2026 20:54:56

11B_Ant1_2437

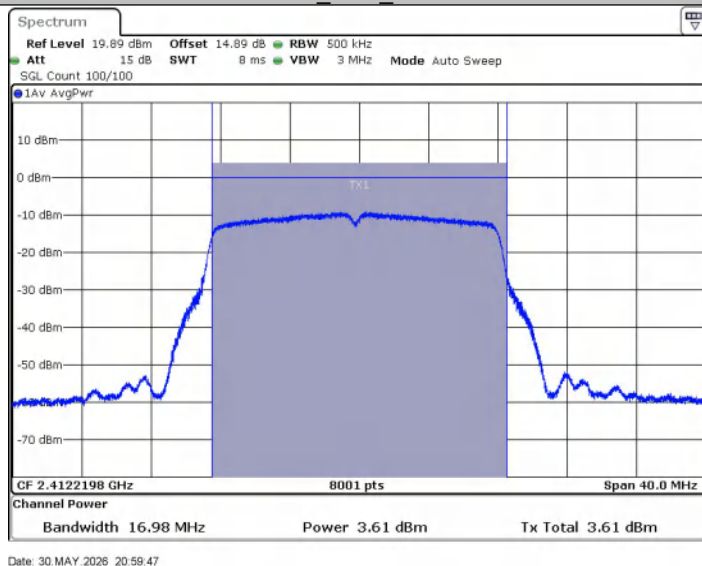


Date: 30 MAY 2026 20:56:33

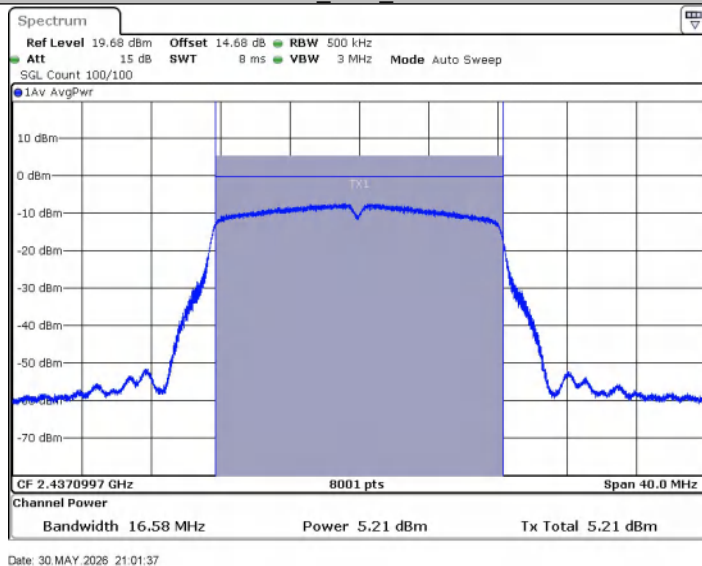
11B_Ant1_2462



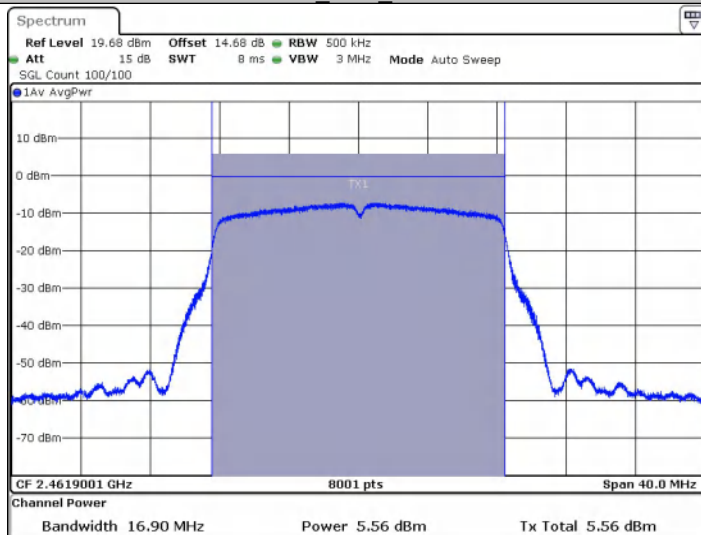
11G_Ant1_2412



11G_Ant1_2437

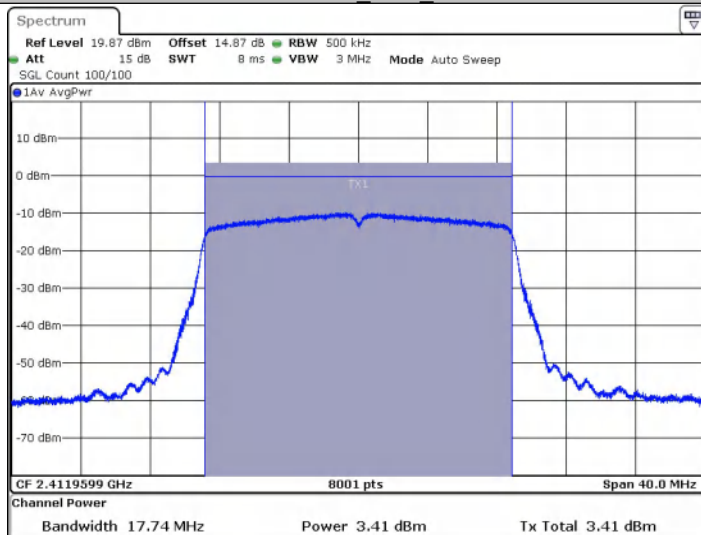


11G_Ant1_2462



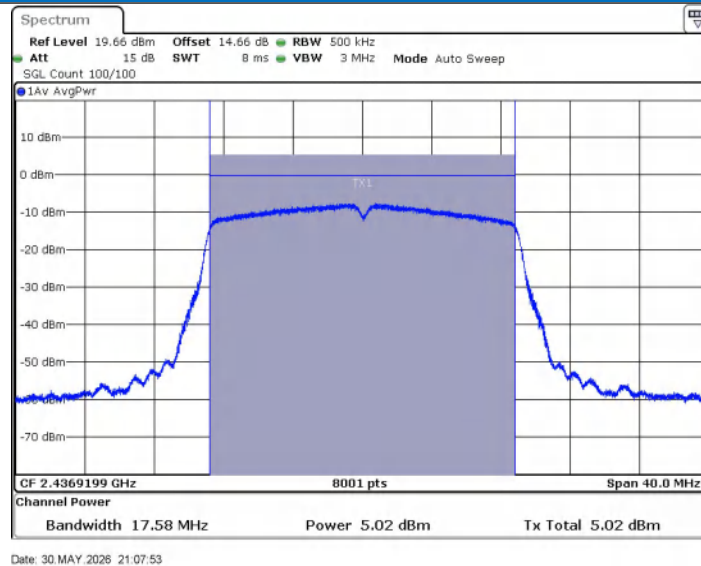
Date: 30 MAY 2026 21:03:30

11N20SISO_Ant1_2412

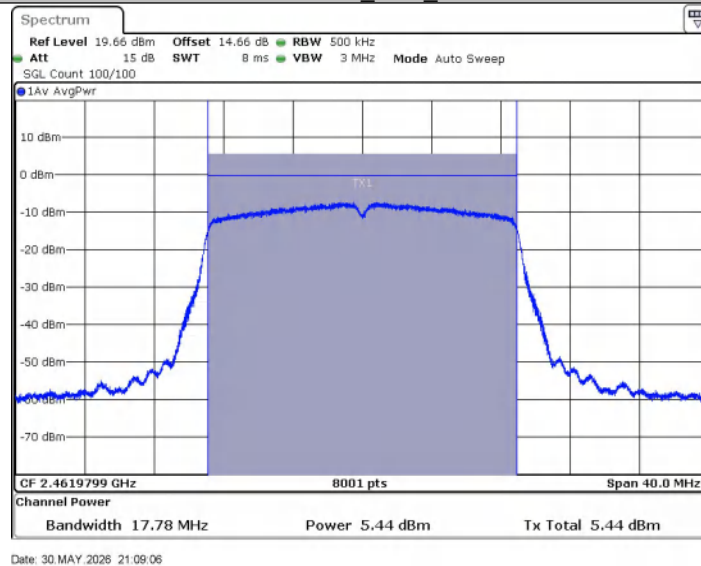


Date: 30 MAY 2026 21:05:36

11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



ANT2:

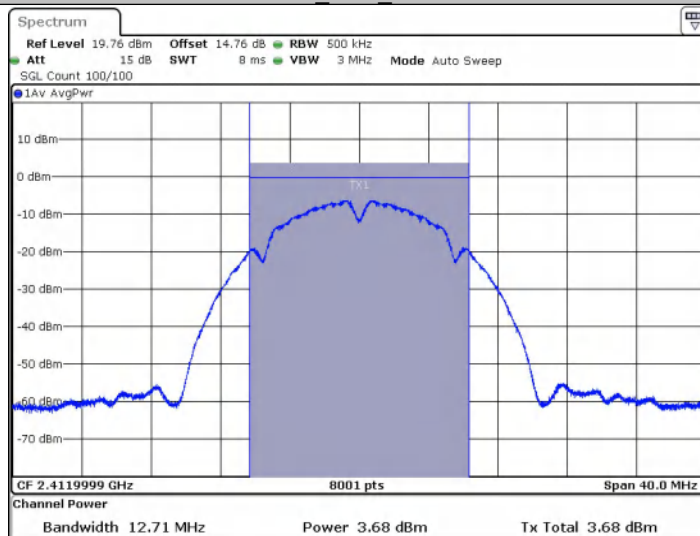
Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	3.68	≤30.00	PASS
	2437	5.37	≤30.00	PASS
	2462	5.77	≤30.00	PASS
11G	2412	3.50	≤30.00	PASS
	2437	5.23	≤30.00	PASS
	2462	5.44	≤30.00	PASS
11N20SISO	2412	3.33	≤30.00	PASS
	2437	5.09	≤30.00	PASS
	2462	5.37	≤30.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

When Duty cycle >98%, D.C.F is not required.

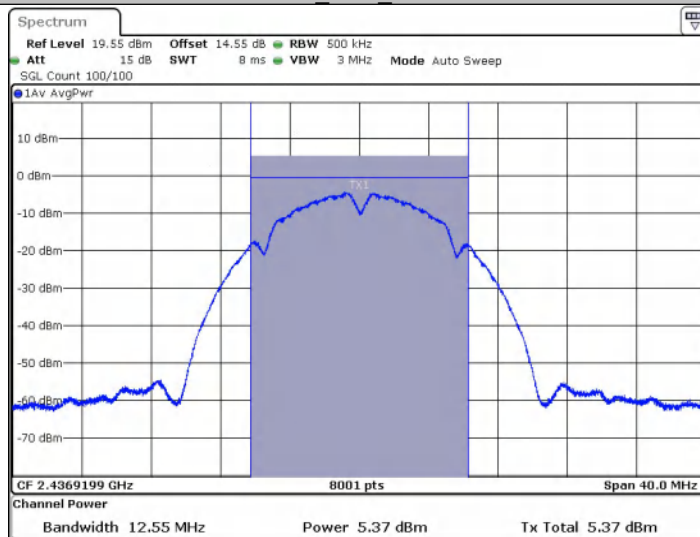
Test Graphs

11B_Ant2_2412



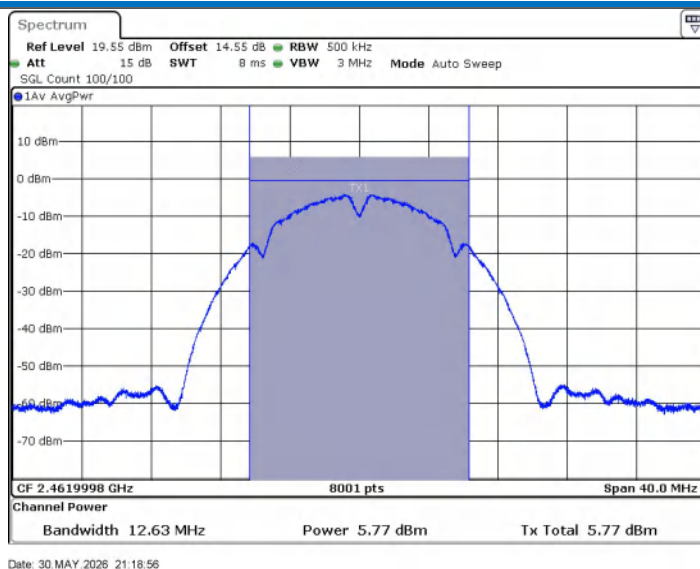
Date: 30 MAY 2026 21:15:06

11B_Ant2_2437

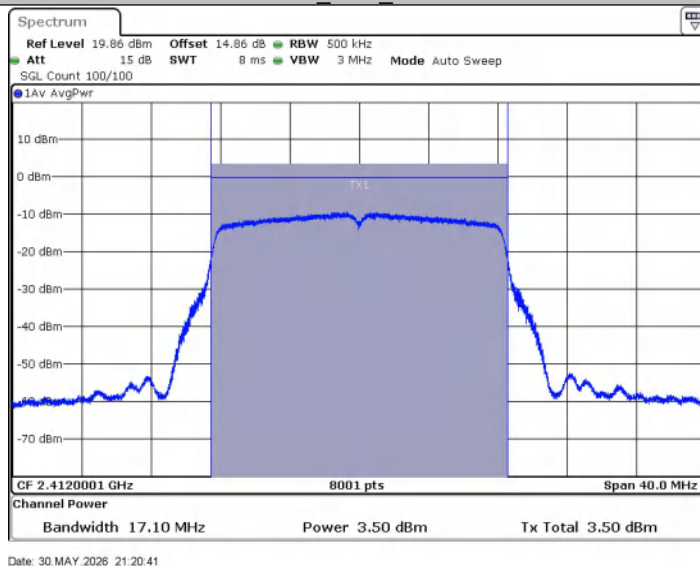


Date: 30 MAY 2026 21:17:08

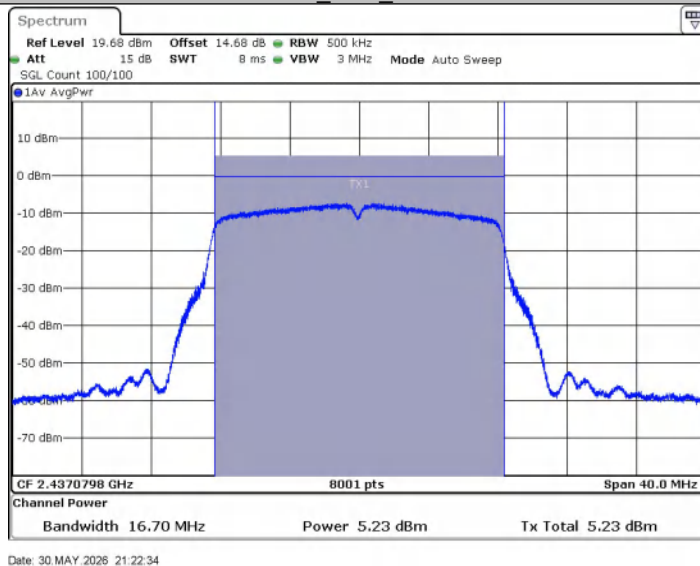
11B_Ant2_2462



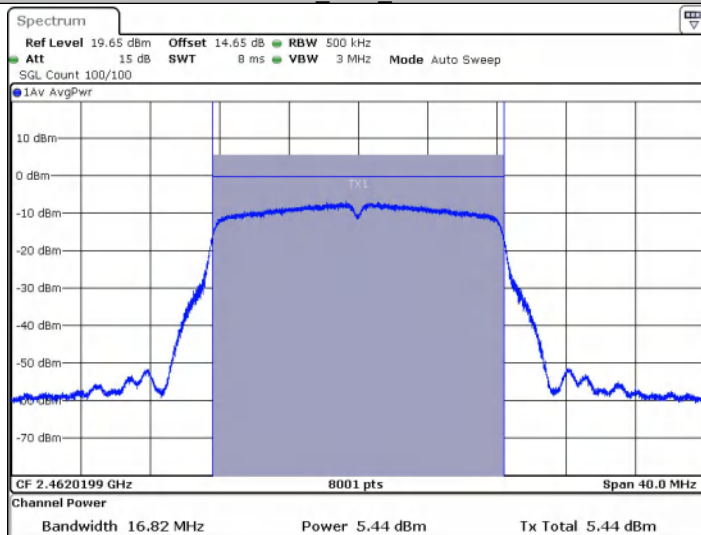
11G_Ant2_2412



11G_Ant2_2437

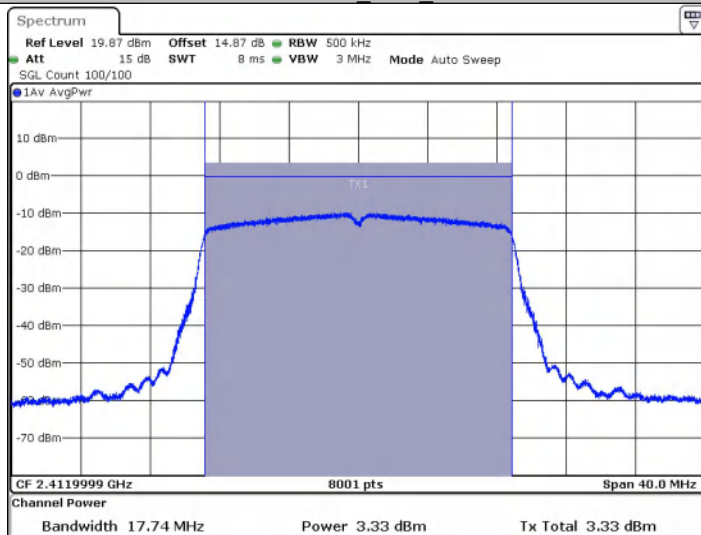


11G_Ant2_2462



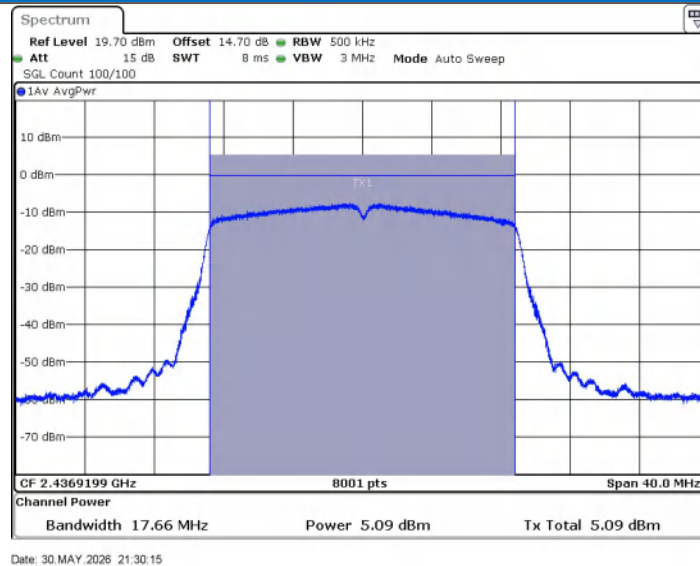
Date: 30 MAY 2026 21:25:10

11N20SISO_Ant2_2412

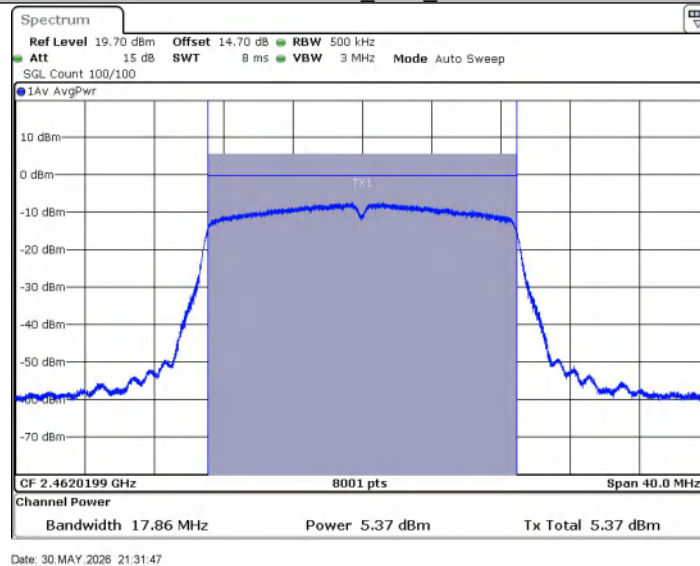


Date: 30 MAY 2026 21:27:14

11N20SISO_Ant2_2437



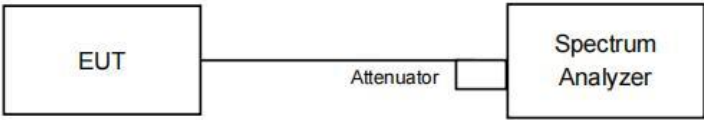
11N20SISO_Ant2_2462



ANT1+ANT2:

Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11N20MIMO	2412	6.38	≤30.00	PASS
	2437	8.07	≤30.00	PASS
	2462	8.42	≤30.00	PASS

5.4 99% Occupied Bandwidth

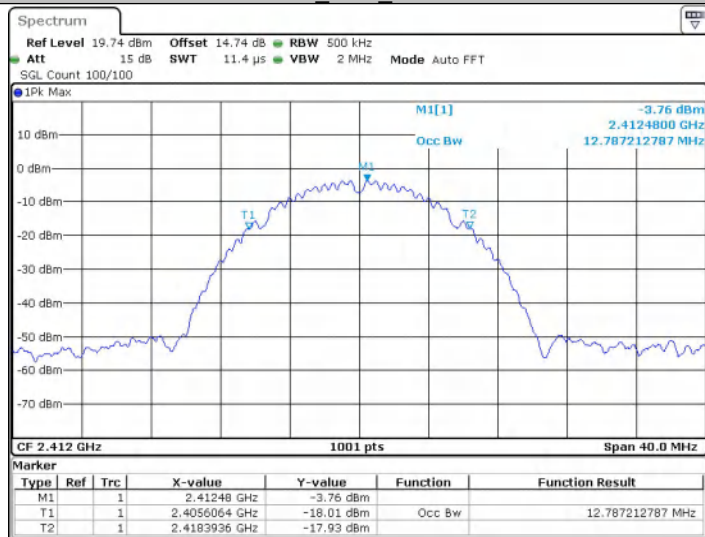
Test Requirement:	47 CFR Part 15C
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

ANT1:
Test Result

TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	12.787	2405.6064	2418.3936
	2437	12.547	2430.6464	2443.1938
	2462	12.627	2455.6863	2468.3137
11G	2412	16.983	2403.7283	2420.7113
	2437	16.583	2428.8082	2445.3916
	2462	16.903	2453.4486	2470.3516
11N20SISO	2412	17.742	2403.0889	2420.8312
	2437	17.582	2428.1289	2445.7113
	2462	17.782	2453.0889	2470.8711

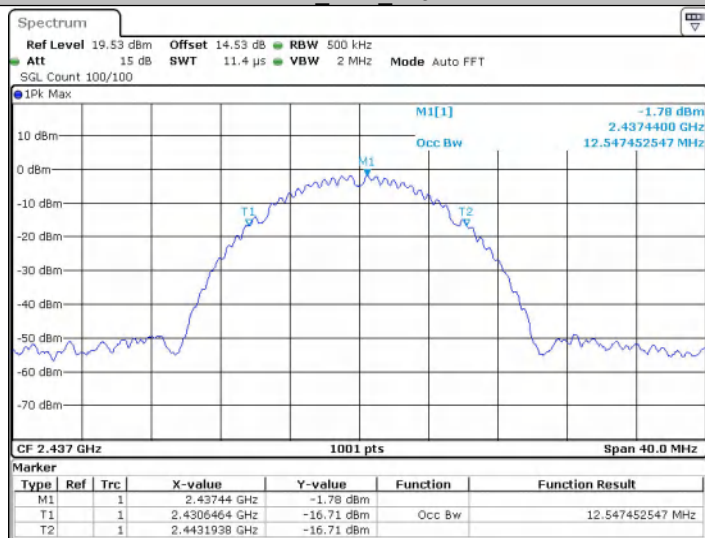
Test Graphs

11B_Ant1_2412



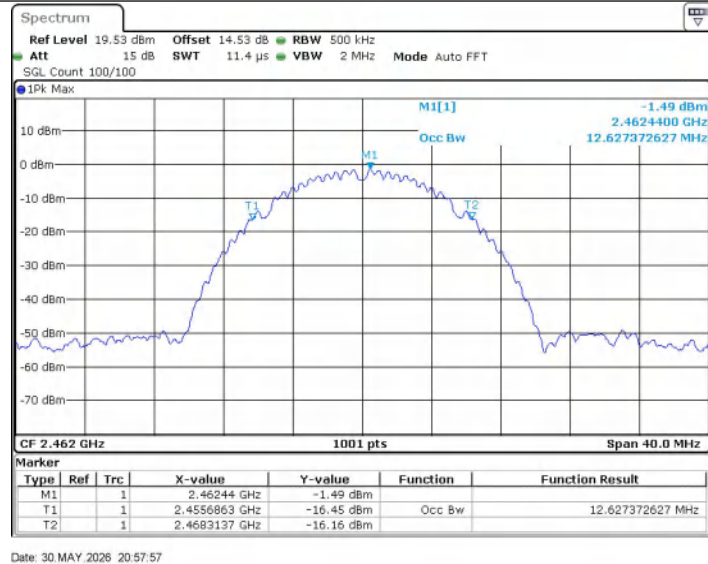
Date: 30 MAY 2026 20:54:49

11B_Ant1_2437

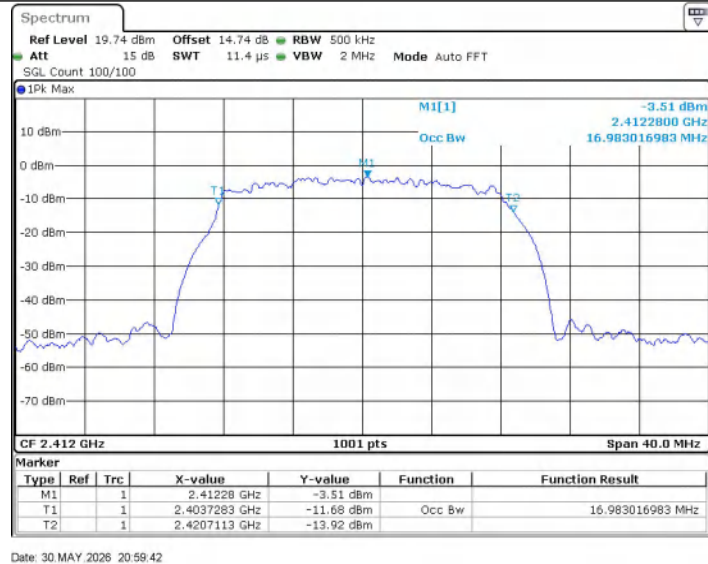


Date: 30 MAY 2026 20:56:28

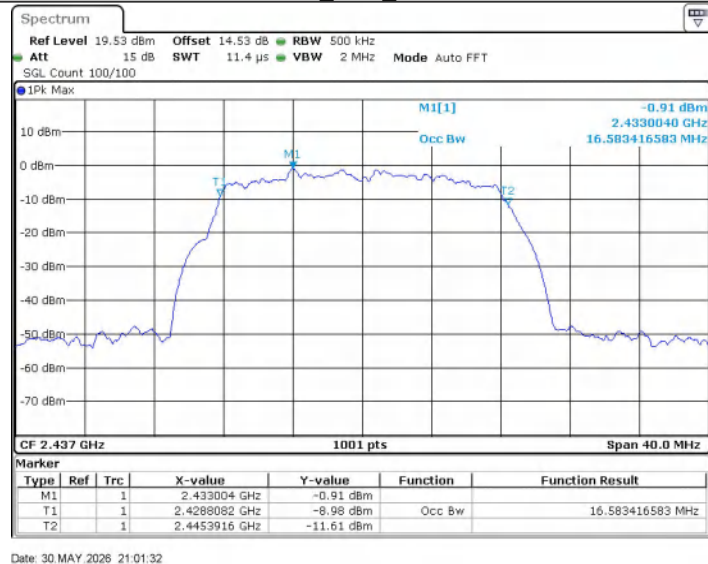
11B_Ant1_2462



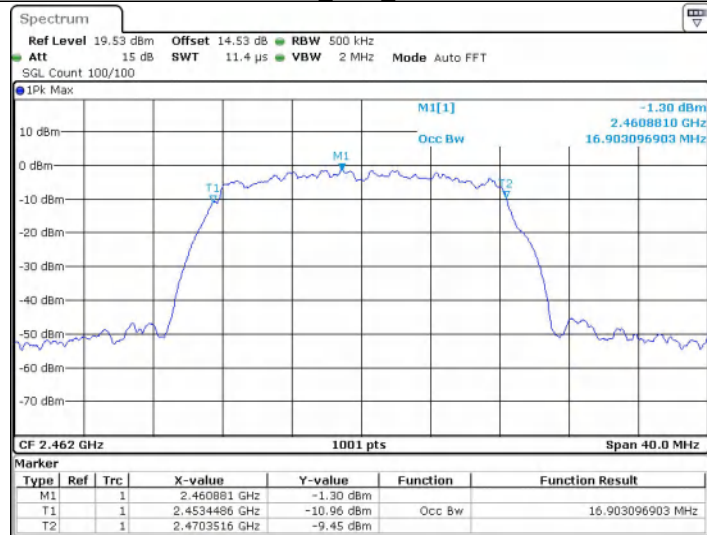
11G_Ant1_2412



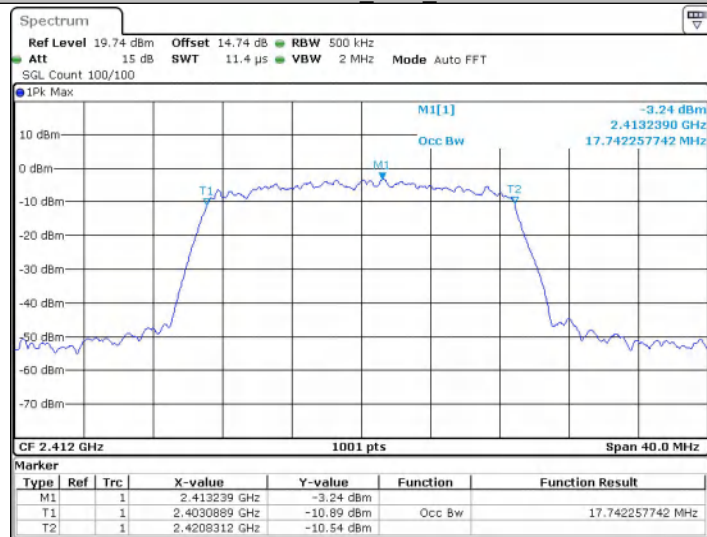
11G_Ant1_2437



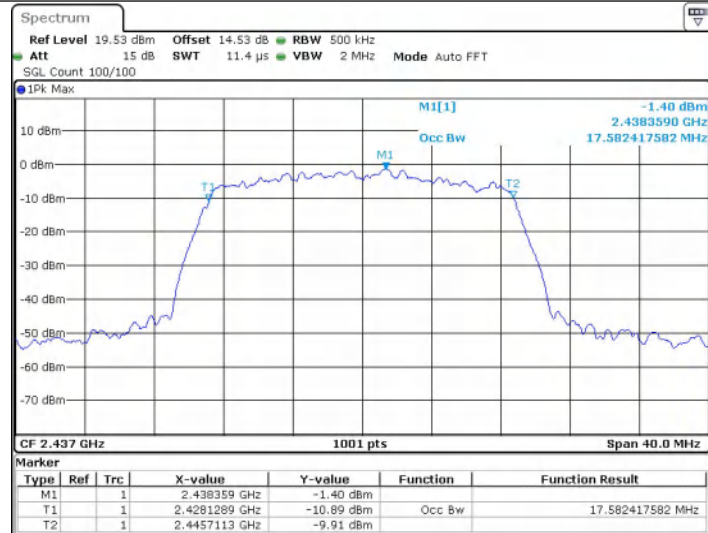
11G_Ant1_2462



11N20SISO_Ant1_2412

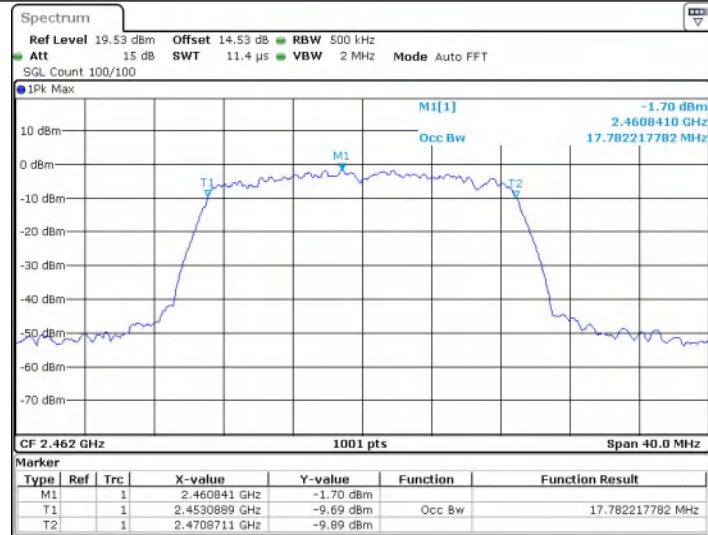


11N20SISO_Ant1_2437



Date: 30 MAY 2026 21:07:47

11N20SISO_Ant1_2462



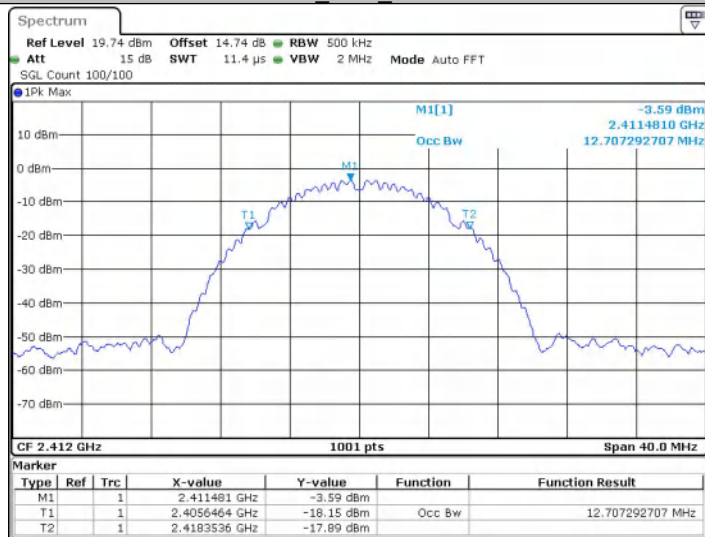
Date: 30 MAY 2026 21:09:00

ANT2:**Test Result**

TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	12.707	2405.6464	2418.3536
	2437	12.547	2430.6464	2443.1938
	2462	12.627	2455.6863	2468.3137
11G	2412	17.103	2403.4486	2420.5514
	2437	16.703	2428.7283	2445.4316
	2462	16.823	2453.6084	2470.4316
11N20SISO	2412	17.742	2403.1289	2420.8711
	2437	17.662	2428.0889	2445.7512
	2462	17.862	2453.0889	2470.9510

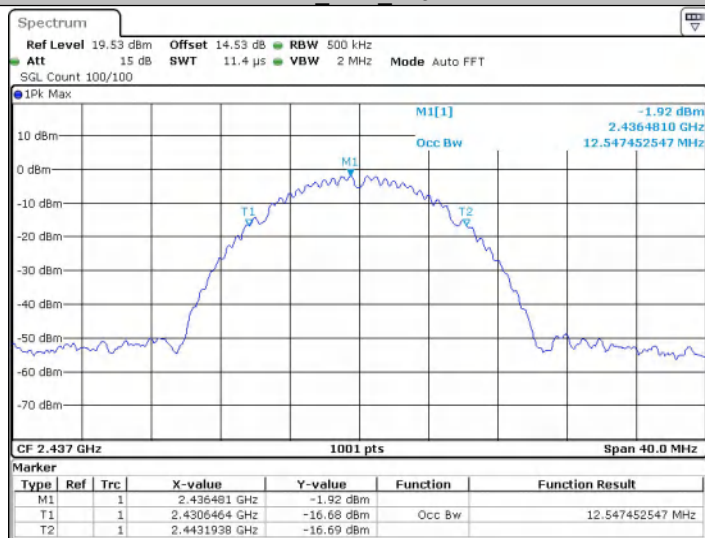
Test Graphs

11B_Ant2_2412



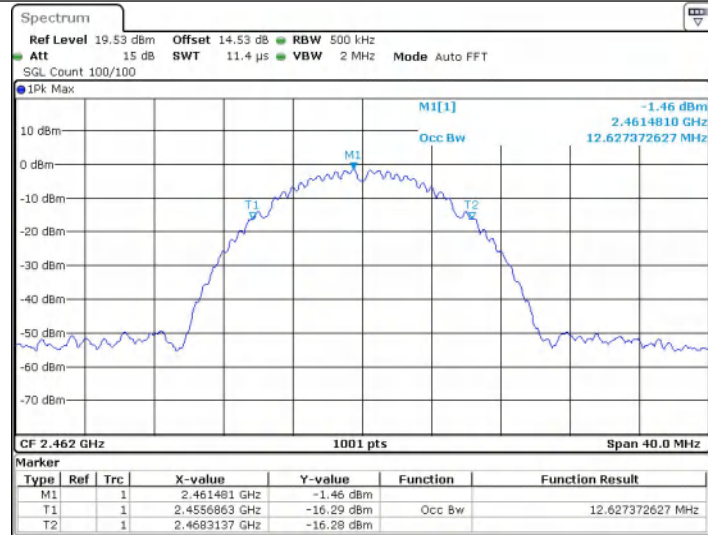
Date: 30 MAY 2026 21:15:00

11B_Ant2_2437

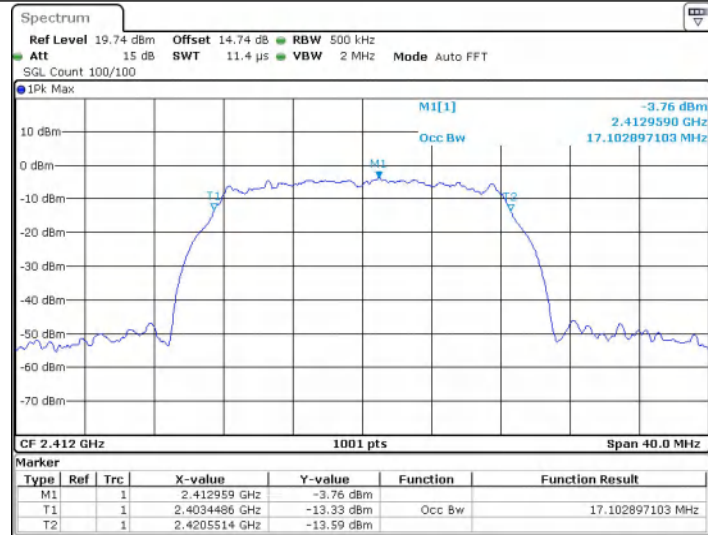


Date: 30 MAY 2026 21:17:02

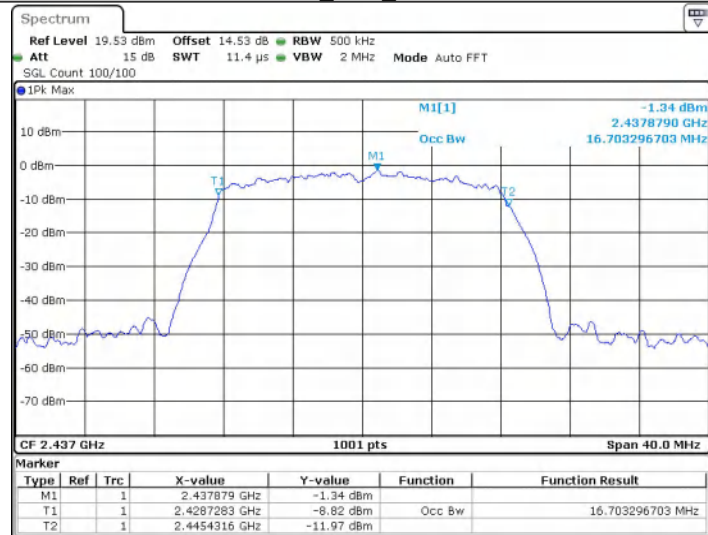
11B_Ant2_2462



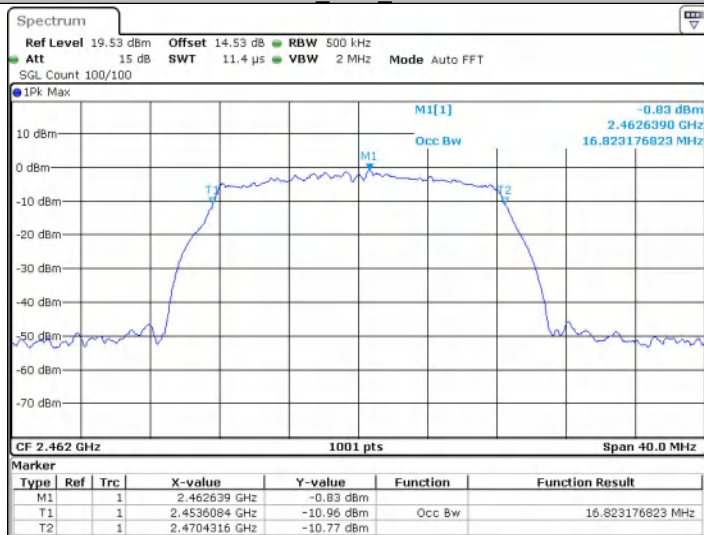
11G_Ant2_2412



11G_Ant2_2437

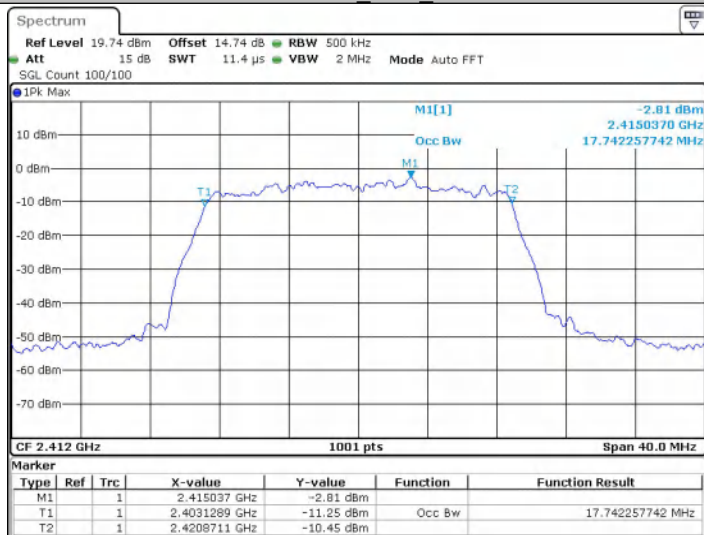


11G_Ant2_2462



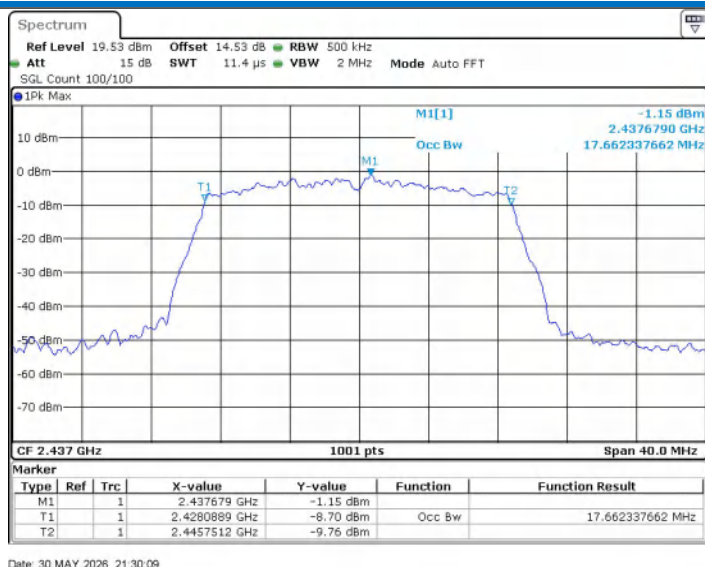
Date: 30 MAY 2026 21:25:04

11N20SISO_Ant2_2412

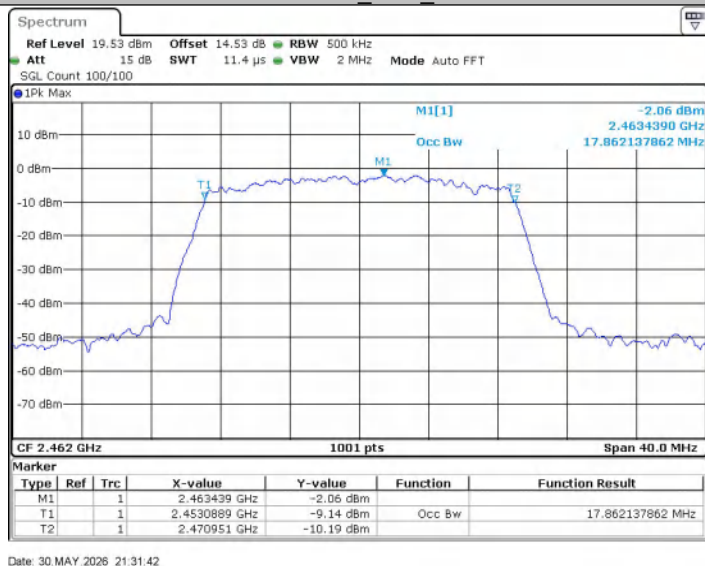


Date: 30 MAY 2026 21:27:08

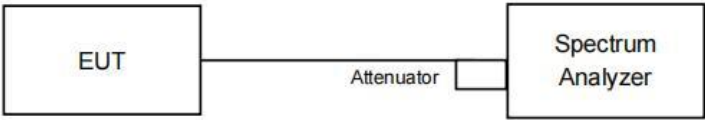
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462



5.5 6dB Occupied Bandwidth

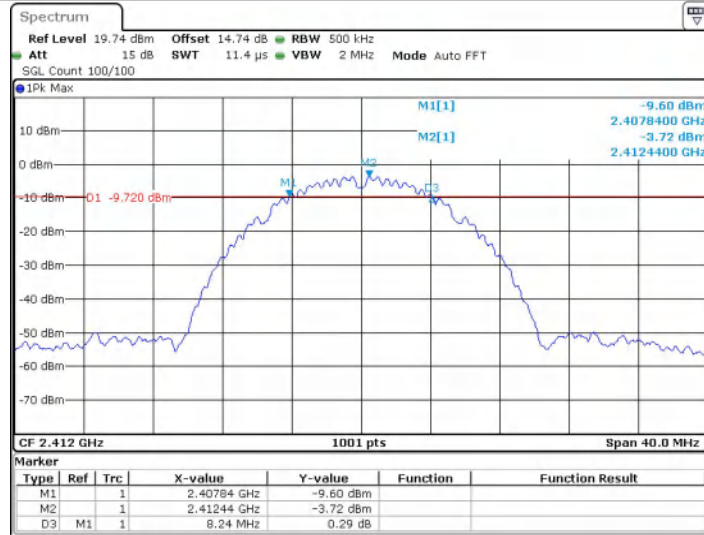
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

ANT1
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.24	0.5	PASS
		2437	8.20	0.5	PASS
		2462	8.20	0.5	PASS
11G	Ant1	2412	16.28	0.5	PASS
		2437	15.84	0.5	PASS
		2462	15.96	0.5	PASS
11N20SISO	Ant1	2412	17.64	0.5	PASS
		2437	17.16	0.5	PASS
		2462	16.80	0.5	PASS

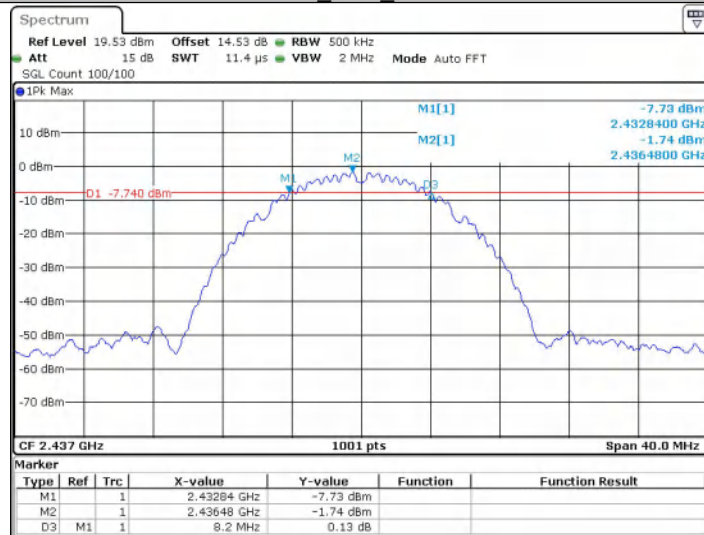
Test Graphs

11B_Ant1_2412



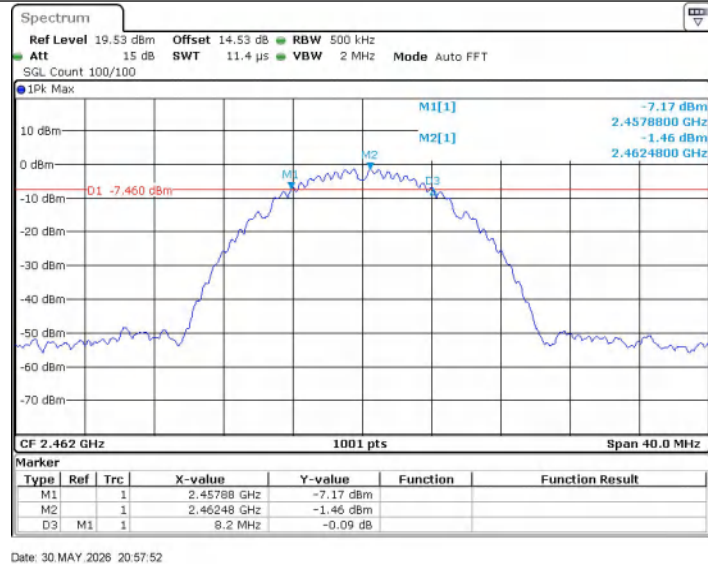
Date: 30 MAY 2026 20:54:45

11B_Ant1_2437

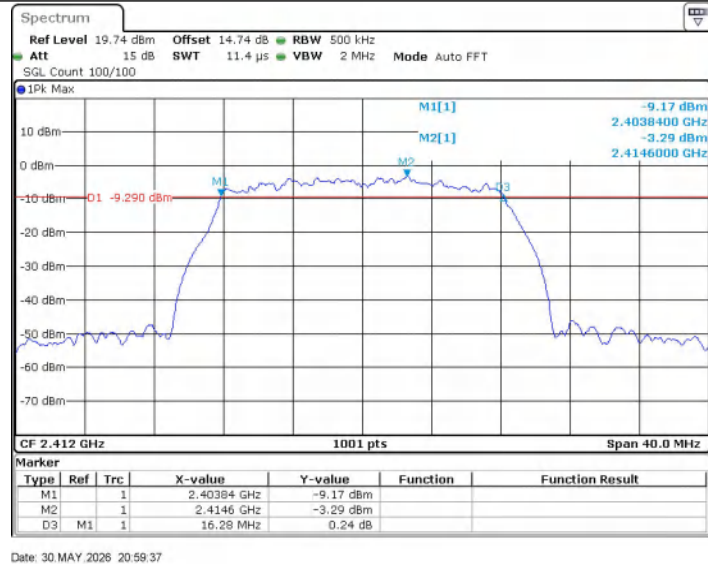


Date: 30 MAY 2026 20:56:24

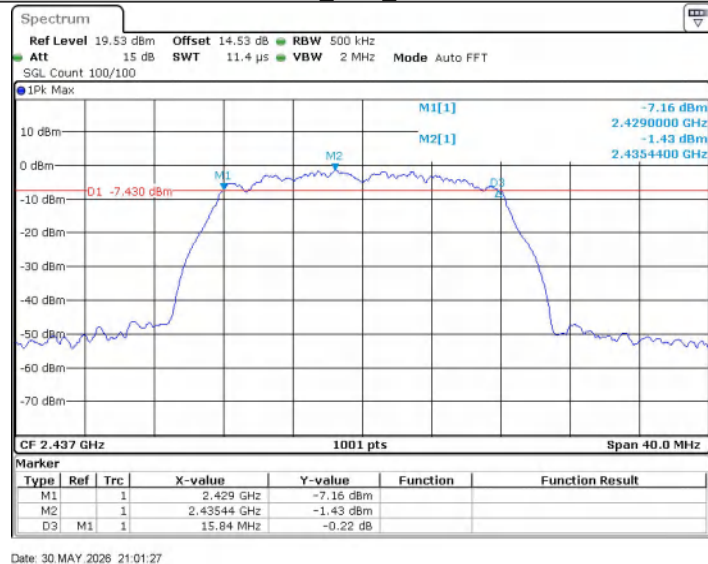
11B_Ant1_2462



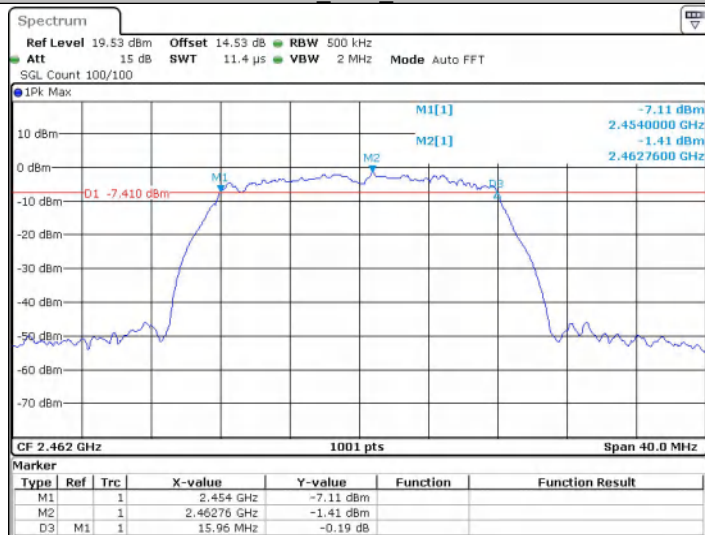
11G_Ant1_2412



11G_Ant1_2437

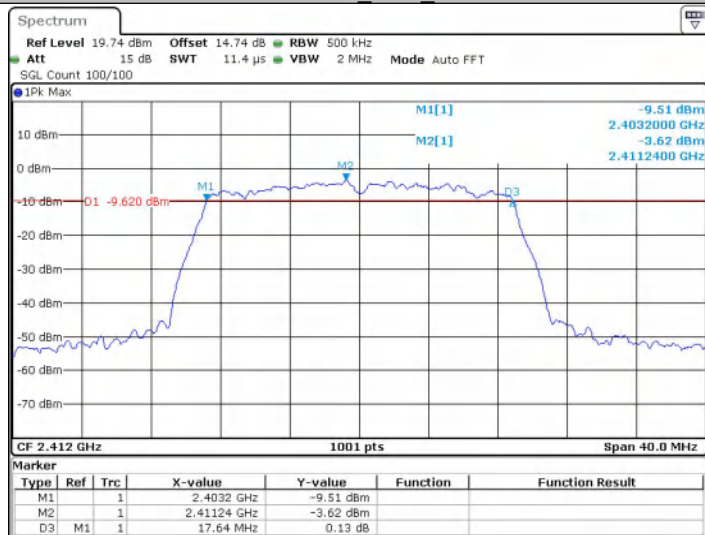


11G_Ant1_2462



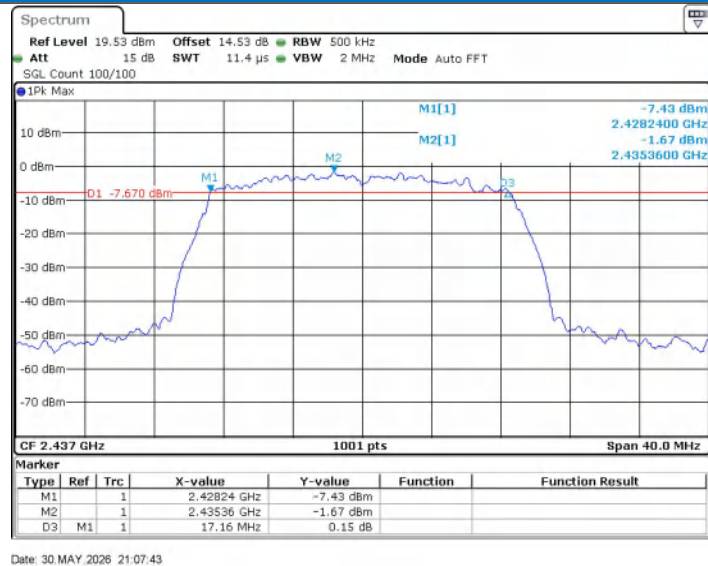
Date: 30 MAY 2026 21:03:20

11N20SISO_Ant1_2412



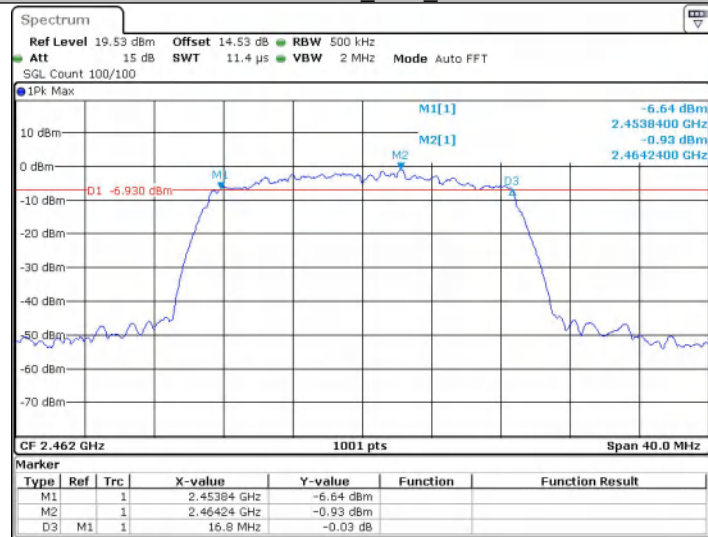
Date: 30 MAY 2026 21:05:26

11N20SISO_Ant1_2437



Date: 30 MAY 2026 21:07:43

11N20SISO_Ant1_2462



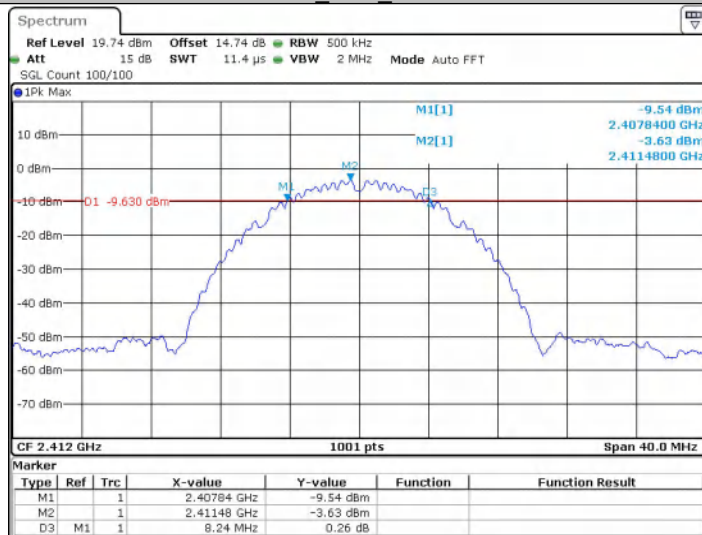
Date: 30 MAY 2026 21:08:56

ANT2
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.24	0.5	PASS
		2437	8.20	0.5	PASS
		2462	8.20	0.5	PASS
11G	Ant1	2412	16.00	0.5	PASS
		2437	15.72	0.5	PASS
		2462	16.20	0.5	PASS
11N20SISO	Ant1	2412	17.52	0.5	PASS
		2437	17.08	0.5	PASS
		2462	17.24	0.5	PASS

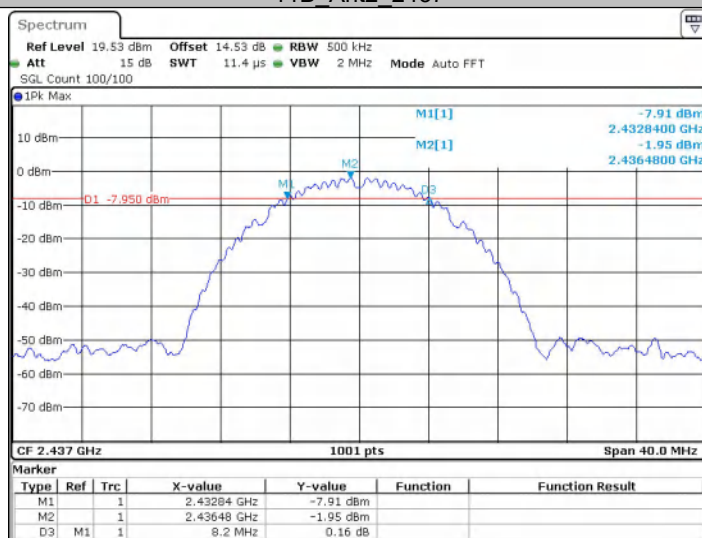
Test Graphs

11B_Ant2_2412



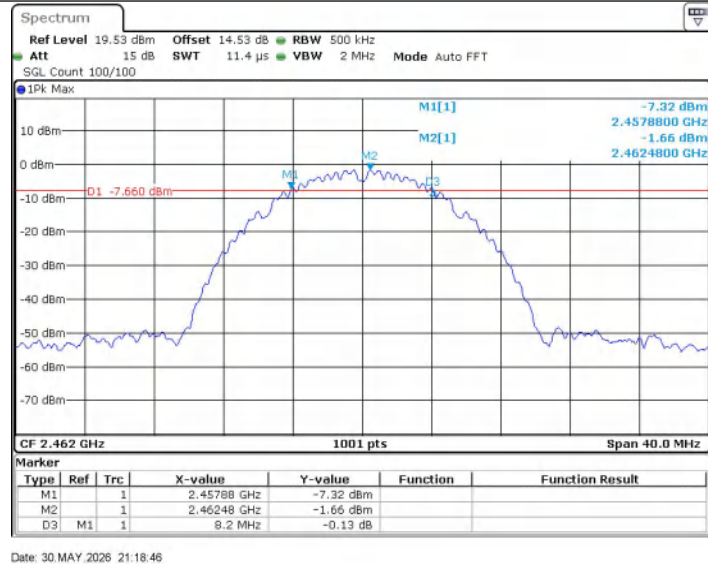
Date: 30 MAY 2026 21:14:56

11B_Ant2_2437

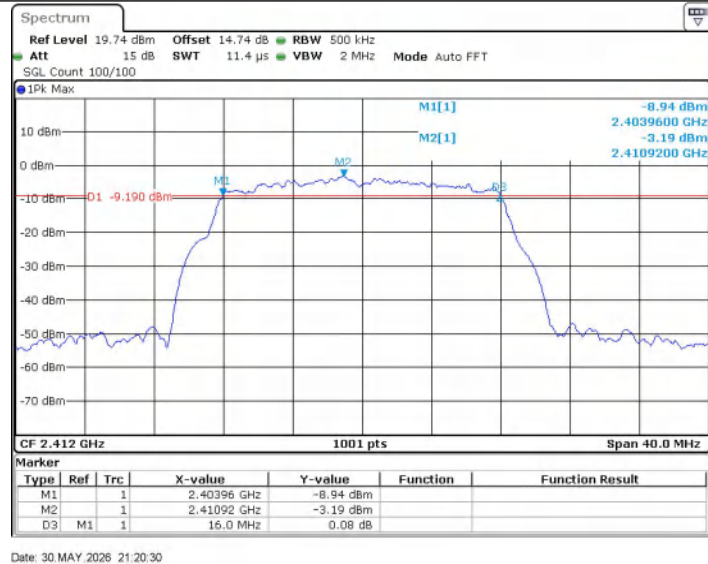


Date: 30 MAY 2026 21:16:58

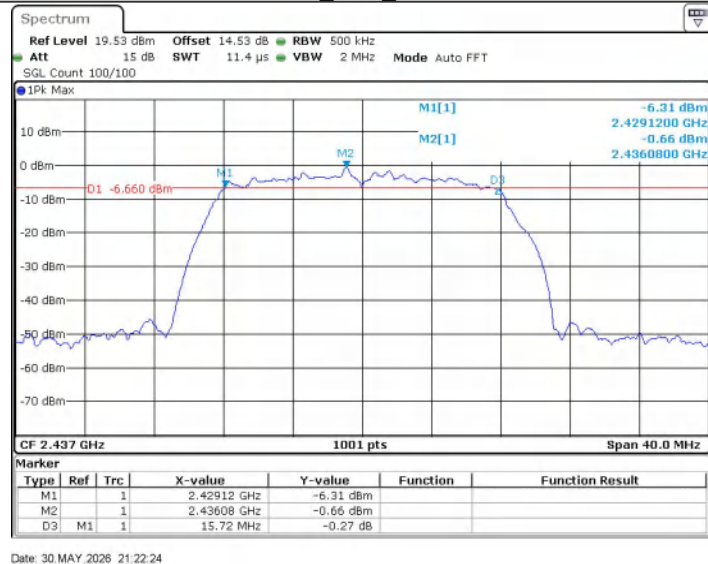
11B_Ant2_2462



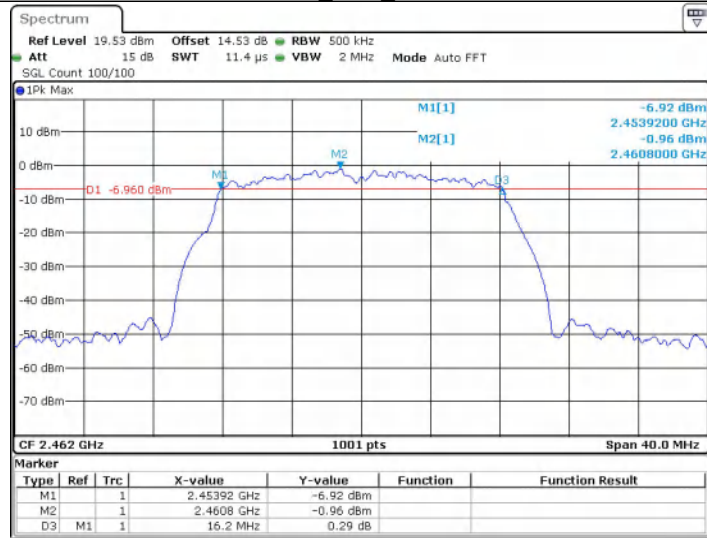
11G_Ant2_2412



11G_Ant2_2437

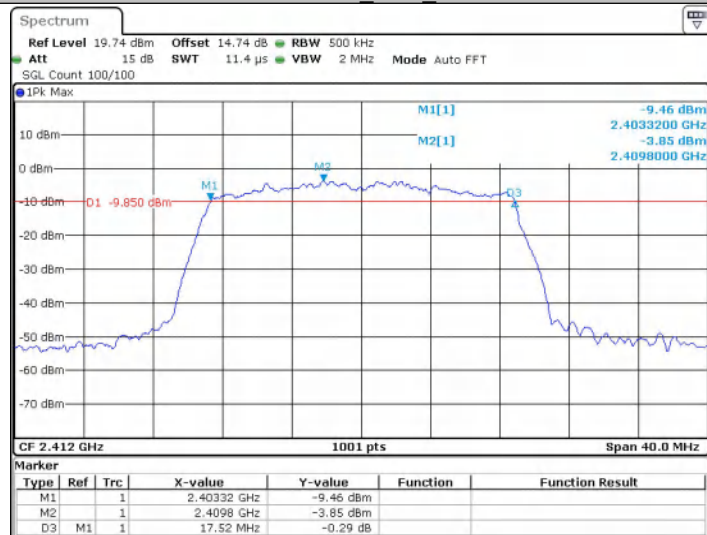


11G_Ant2_2462



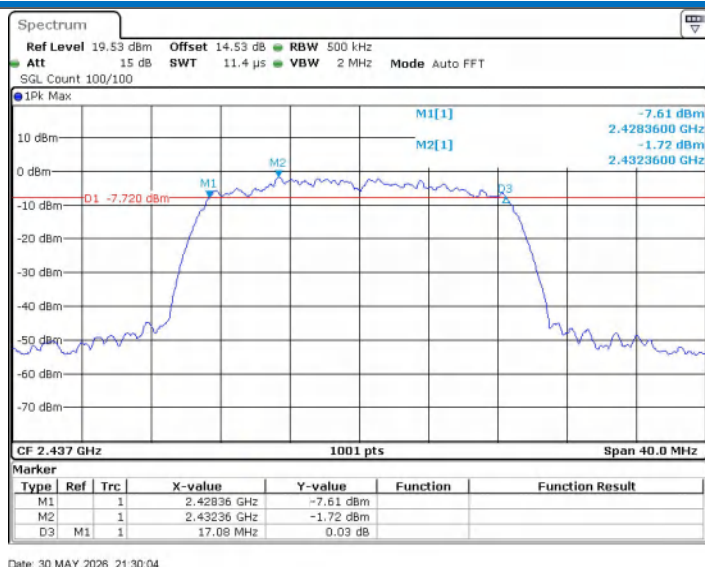
Date: 30 MAY 2026 21:25:00

11N20SISO_Ant2_2412

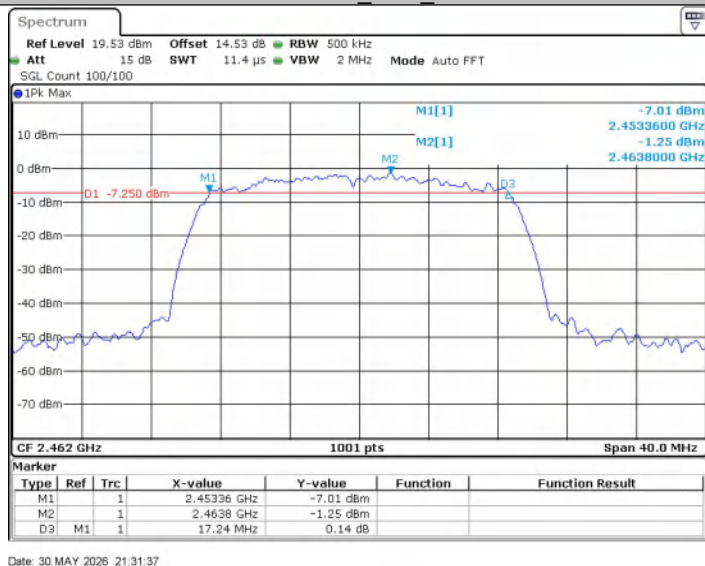


Date: 30 MAY 2026 21:27:04

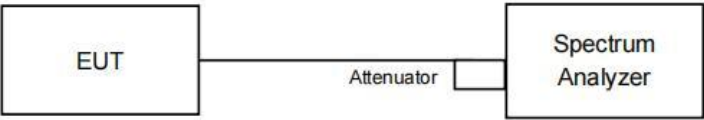
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462



5.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

ANT1

Test Result

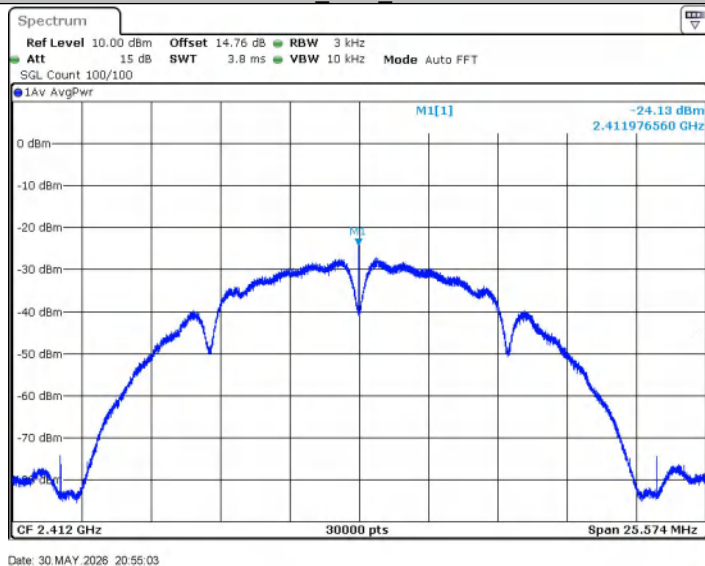
TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-24.13	≤8.00	PASS
	2437	-19.11	≤8.00	PASS
	2462	-19.76	≤8.00	PASS
11G	2412	-20.90	≤8.00	PASS
	2437	-27.64	≤8.00	PASS
	2462	-27.48	≤8.00	PASS
11N20SISO	2412	-23.48	≤8.00	PASS
	2437	-27.64	≤8.00	PASS
	2462	-27.56	≤8.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

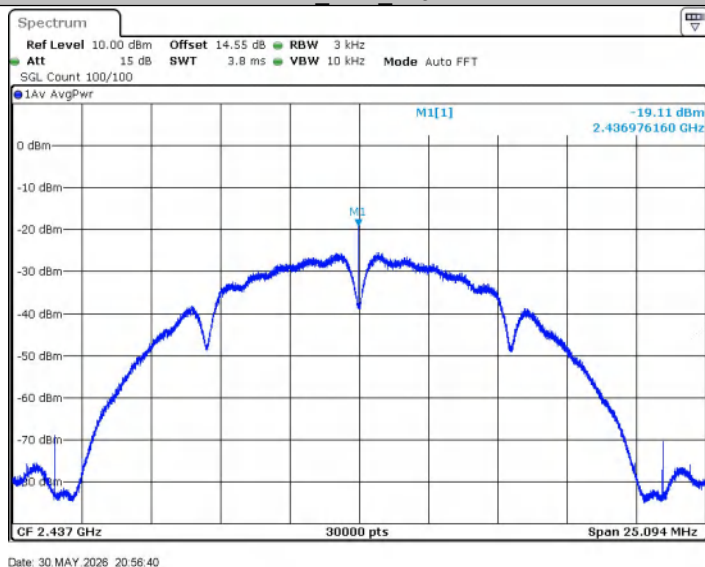
When Duty cycle >98%, D.C.F is not required.

Test Graphs

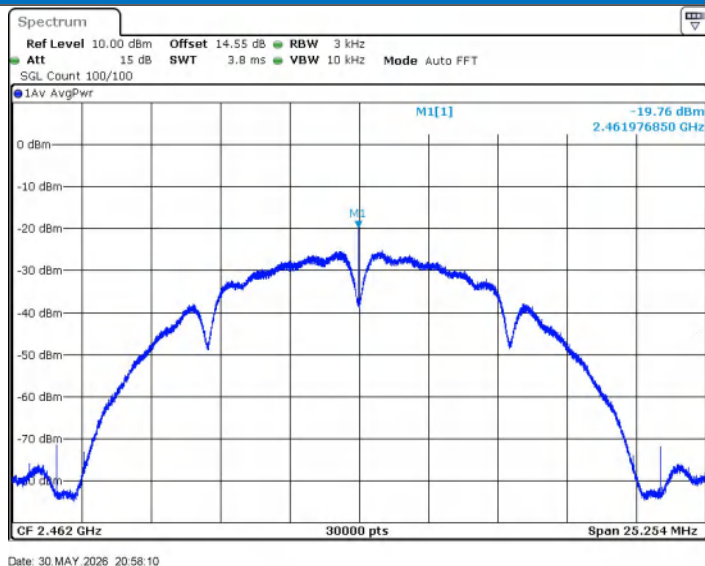
11B_Ant1_2412



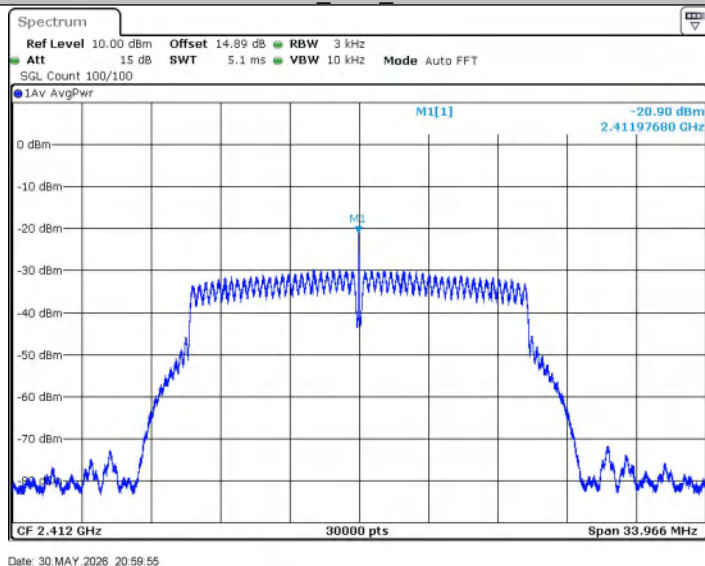
11B_Ant1_2437



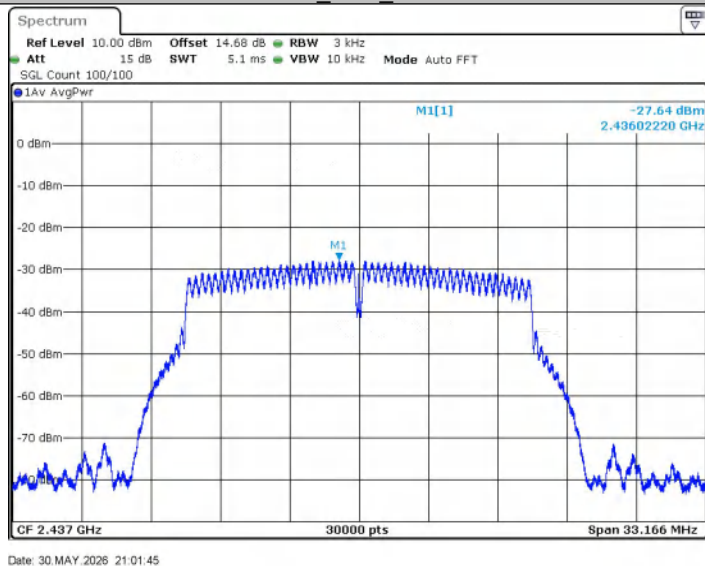
11B_Ant1_2462



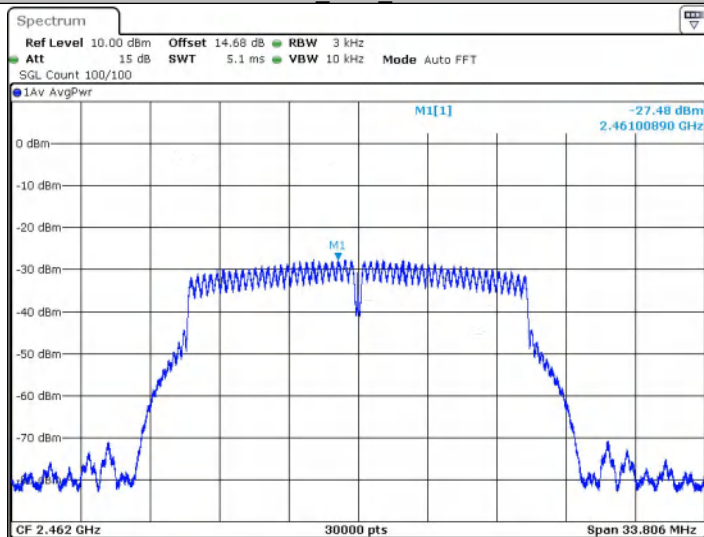
11G_Ant1_2412



11G_Ant1_2437

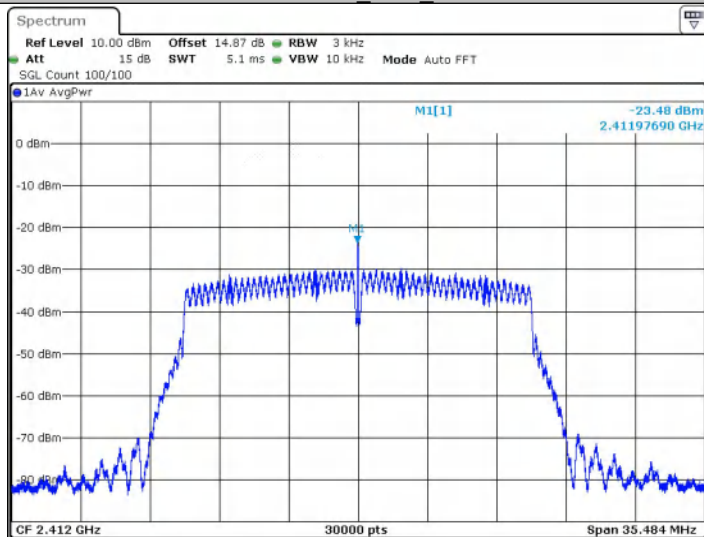


11G_Ant1_2462



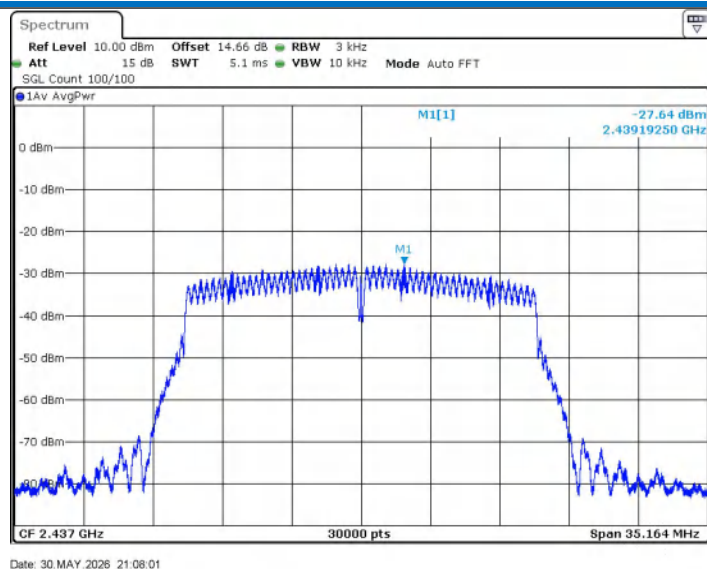
Date: 30 MAY 2026 21:03:38

11N20SISO_Ant1_2412

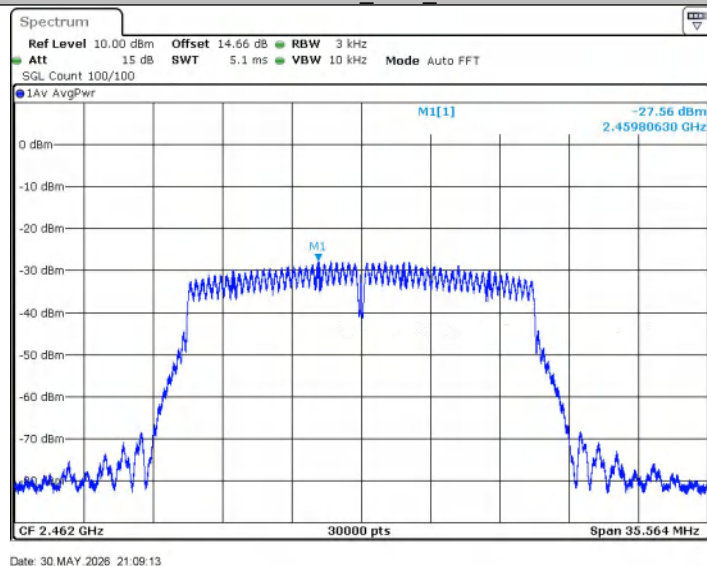


Date: 30 MAY 2026 21:05:44

11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



ANT2

Test Result

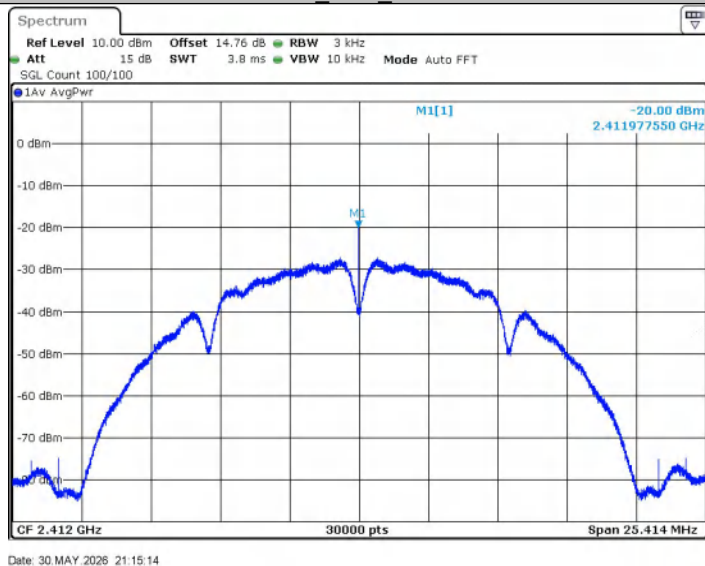
TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-20.00	≤8.00	PASS
	2437	-18.81	≤8.00	PASS
	2462	-19.56	≤8.00	PASS
11G	2412	-20.31	≤8.00	PASS
	2437	-27.55	≤8.00	PASS
	2462	-27.30	≤8.00	PASS
11N20SISO	2412	-21.09	≤8.00	PASS
	2437	-27.71	≤8.00	PASS
	2462	-27.64	≤8.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

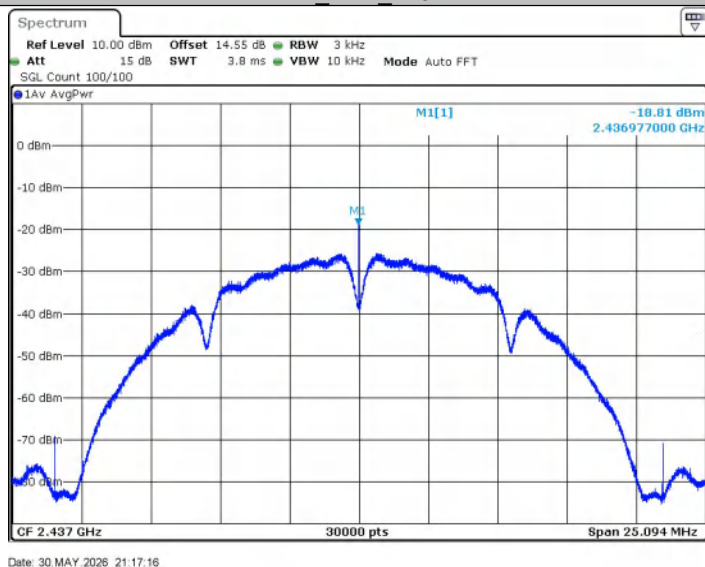
When Duty cycle >98%, D.C.F is not required.

Test Graphs

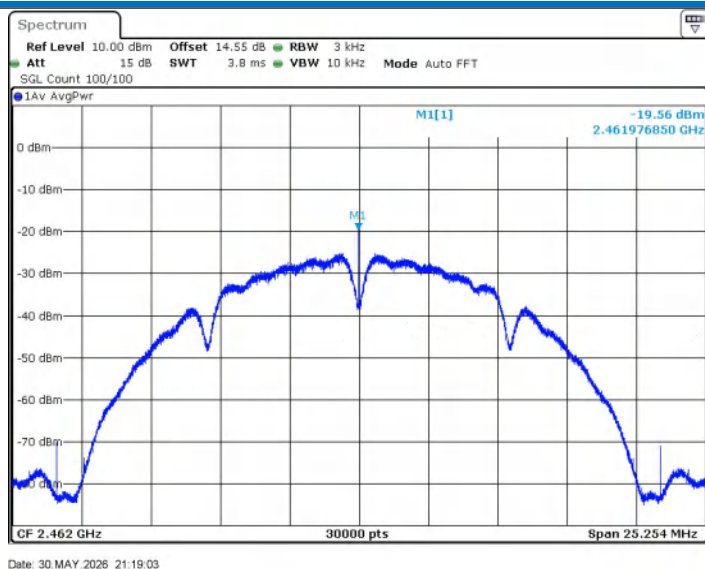
11B_Ant2_2412



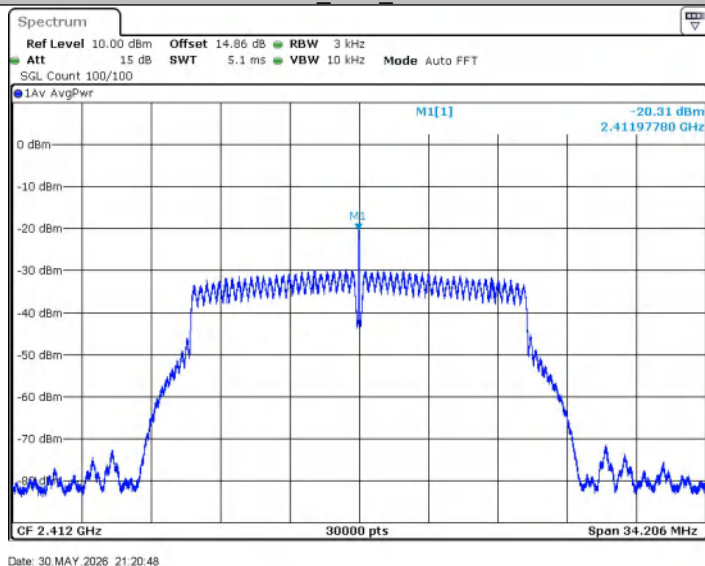
11B_Ant2_2437



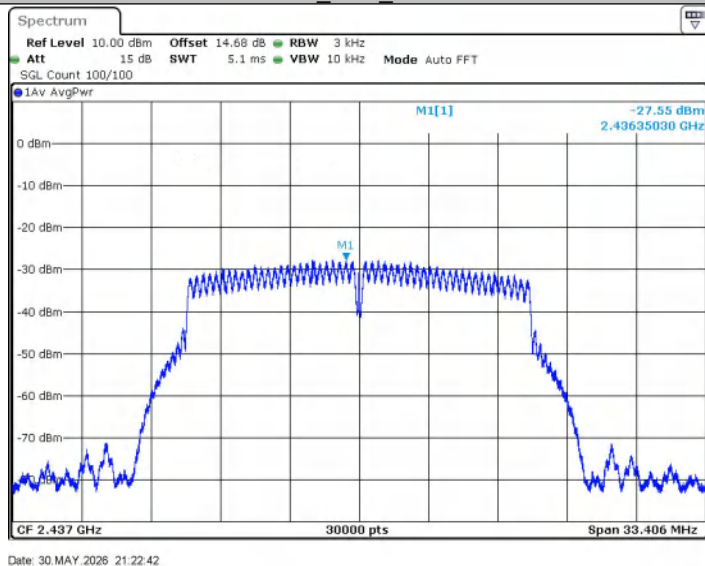
11B_Ant2_2462



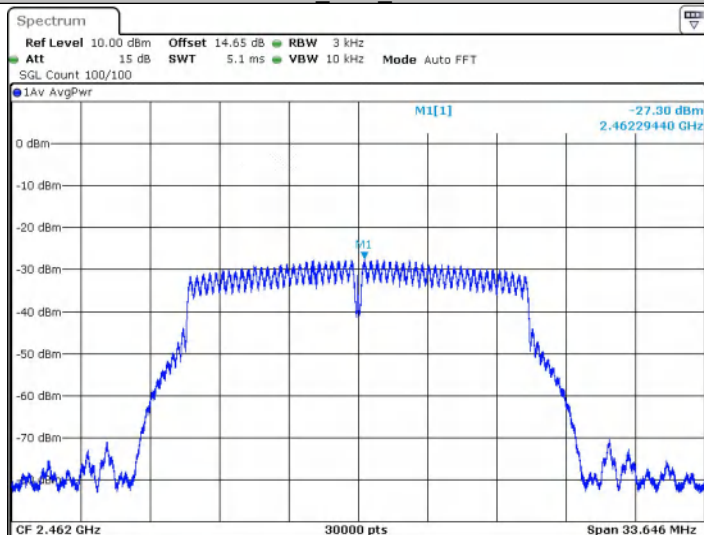
11G_Ant2_2412



11G_Ant2_2437

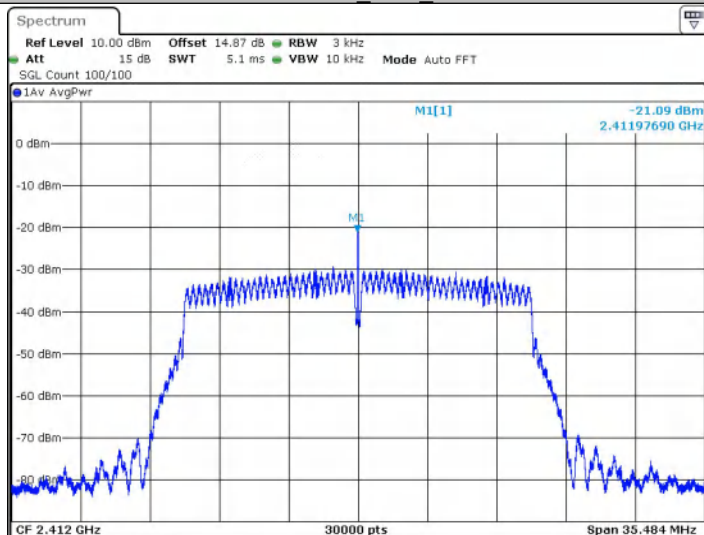


11G_Ant2_2462



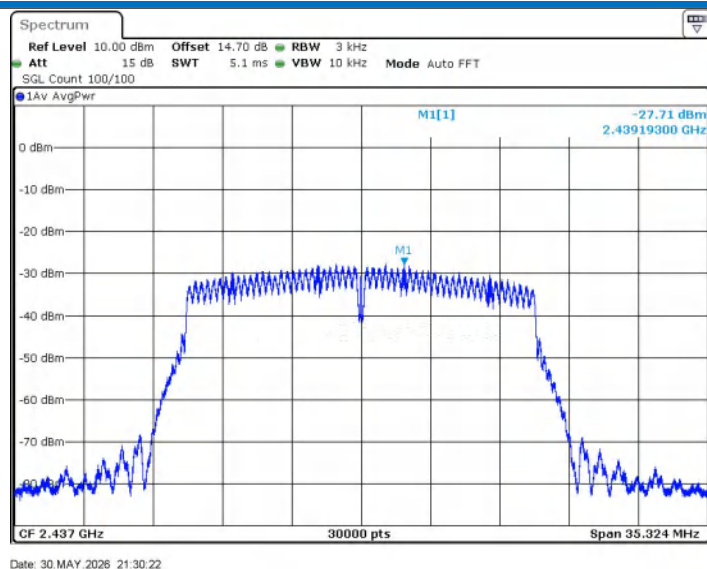
Date: 30 MAY 2026 21:25:18

11N20SISO_Ant2_2412

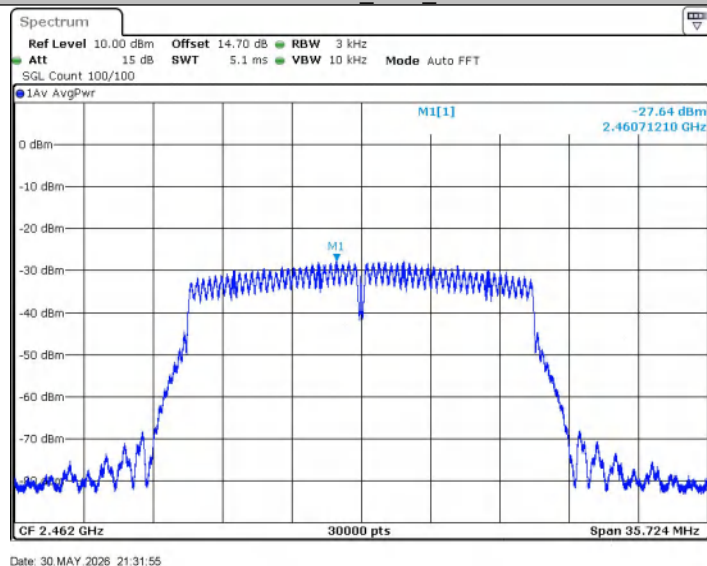


Date: 30 MAY 2026 21:27:22

11N20SISO_Ant2_2437



11N20SISO_Ant2_2462

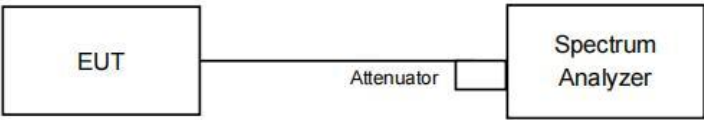


ANT1+ANT2

Test Result

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20MIMO	2412	-19.11	≤8.00	PASS
	2437	-24.66	≤8.00	PASS
	2462	-24.59	≤8.00	PASS

5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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.
Test Results:	Pass

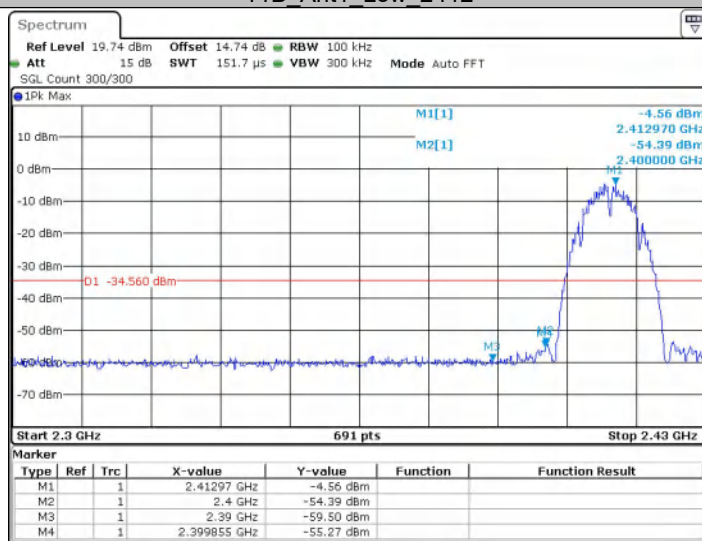
ANT1

Test Result

TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	-4.56	-55.27	≤ -34.56	PASS
	High	2462	-2.99	-56.5	≤ -32.99	PASS
11G	Low	2412	-8.13	-51.52	≤ -38.13	PASS
	High	2462	-5.43	-56	≤ -35.43	PASS
11N20SISO	Low	2412	-7.10	-52.08	≤ -37.1	PASS
	High	2462	-5.80	-54.82	≤ -35.8	PASS

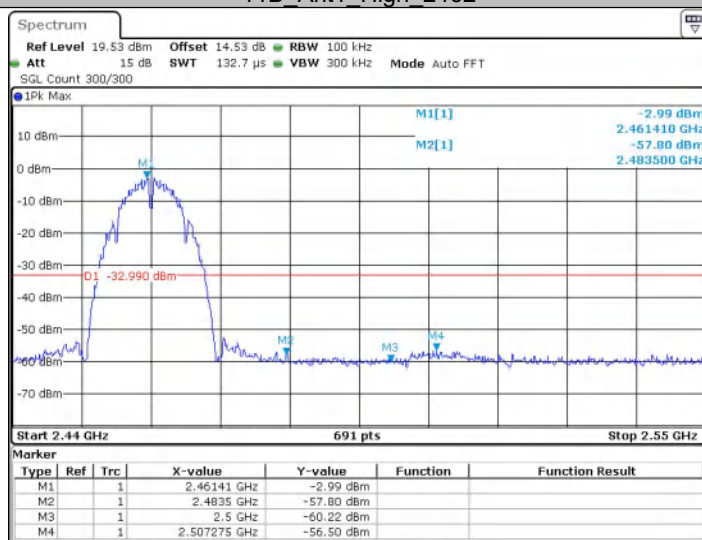
Test Graphs

11B_Ant1_Low_2412



Date: 30 MAY 2026 20:55:12

11B_Ant1_High_2462



Date: 30 MAY 2026 20:58:18

11G_Ant1_Low_2412