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Report Template Version: V05

Report Template Revision Date: 2021-11-03

TEST REPORT

Report No.: CQASZ20240701214E-03
Applicant: Shenzhen Jiteng Network Technology Co., Ltd
Address of Applicant: Floor 7, Building B, Boton Science and Technology Park, Chaguang Road, Xili Street Nanshan District, Shenzhen, China
Equipment Under Test (EUT):
Product: Mini PC
Model No.: Air12 Lite, Air***Lite (*Representing numbers 0-9, letters A-Z, a-z, "-" or spaces)
Test Model No.: Air12 Lite
Brand Name: GEEKOM
FCC ID: 2AY4C-GAL01
Standards: 47 CFR Part 15, Subpart C
Date of Receipt: 2024-07-01
Date of Test: 2024-07-01 to 2024-08-12
Date of Issue: 2024-11-01
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:

Alex

(Alex Wang)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20240701214E-03	Rev.01	Initial report	2024-11-01

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 C63.10-2013	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2013	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 Jiteng Network Technology Co., Ltd
Address of Applicant:	Floor 7, Building B, Boton Science and Technology Park, Chaguang Road, Xili Street Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Jiteng Network Technology Co., Ltd
Address of Manufacturer:	Floor 7, Building B, Boton Science and Technology Park, Chaguang Road, Xili Street Nanshan District, Shenzhen, China
Factory:	Guangdong Enok Communication Co., Ltd.
Address of Factory:	No.62, Lixiang Road, Dalang Town, Dongguan City, Guangdong Province, P.R. China

4.2 General Description of EUT

Product Name:	Mini PC
Model No.:	Air12 Lite, Air***Lite (*Representing numbers 0-9, letters A-Z, a-z, "-" or spaces)
Test Model No.:	Air12 Lite
Trade Mark:	GEEKOM
Software Version:	Windows 11
Hardware Version:	NUCAN03_MB_DDR4_V20
Power Supply:	Power supply adapter Model:HKA06519034-6K Input:100-240V~50/60Hz 1.5A Output:19V 3.42V 64.98W Model:BSY065T1903423 D Input:100-240V~50/60Hz 1.5A Output:19V 3.42V 64.98W
EUT Supports Radios application:	IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40) : 2422 MHz to 2452 MHz
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:	2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20 ax HE20: 11 Channels IEEE 802.11n HT40 ax HE 40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n (HT20)(HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax(HE20)(HE40) :OFDMA(1024QAM, 256QAM, 64QAM, 16QAM,

	QPSK, BPSK)
Transfer Rate:	802.11b: 1M/2M/5.5M/11M bps 802.11g: 6M/9M/12M/18M/24M/36M/48M/54M bps 802.11n(HT20)(HT40): 7.2M/14.4M/21.7M/28.9M/43.3M/57.8M/65M/72.2M bps 802.11ax(HE20)(HE40): 8.6M/17.2M/25.8M/34.4M/51.6M/68.8M/77.4M/86M/103.2M/114.7M/129M/143.4Mbps
Product Type:	☒ Mobile ☐ Portable
Test Software of EUT:	WCN Combo Tool
Antenna Type:	PIFA antenna
Antenna Gain:	Ant1:1.85dBi, Ant2:1.98dBi Ant1+Ant2:4.93dBi

Operation Frequency each of channel(802.11b/g/n/ax 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		
Operation Frequency each of channe(802.11n/ax HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

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/ax (HT20):

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

For 802.11n/ax (HT40):

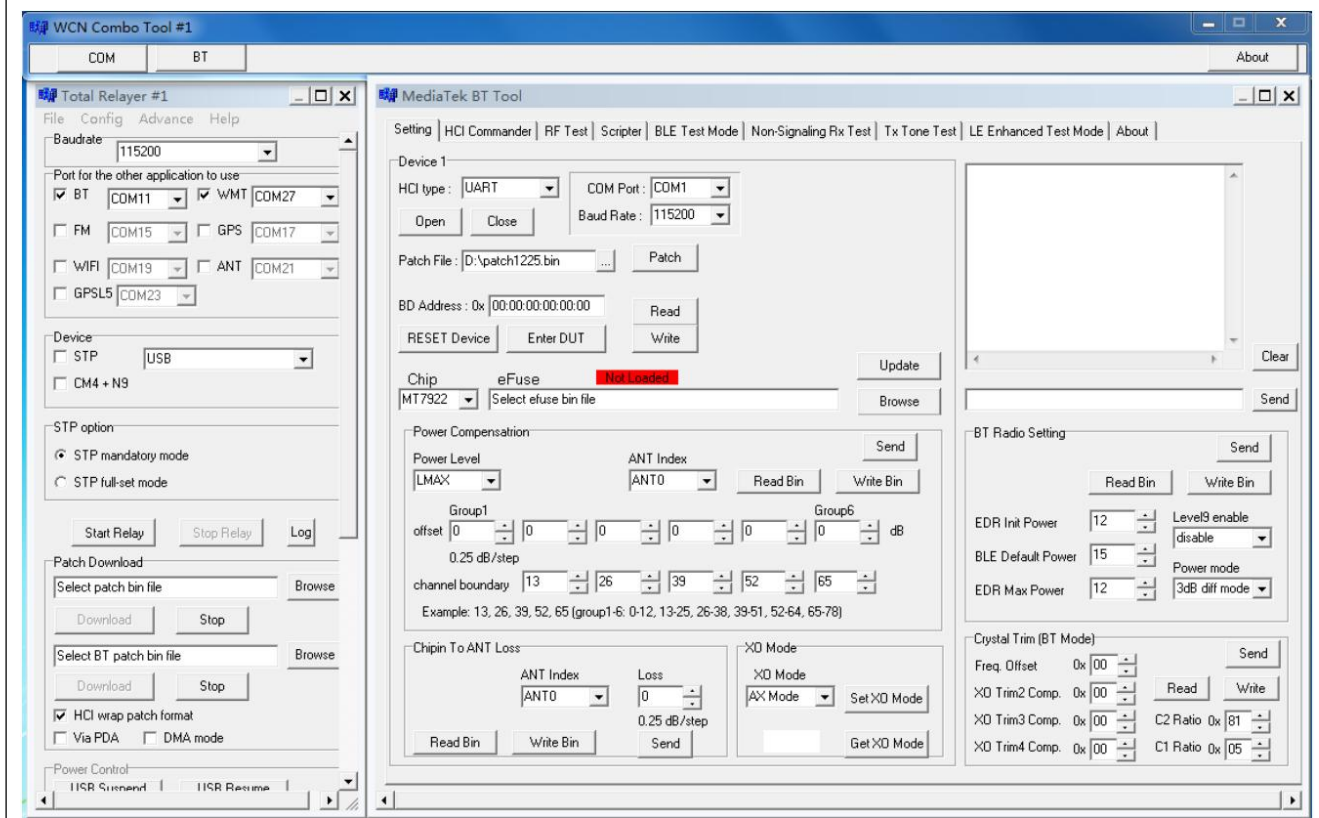
Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

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:	Class2
Run Software:	



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.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

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 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 $k=2$.

4.9 Deviation from Standards

None.

4.10 Abnormalities from Standard Conditions

None.

4.11 Other Information Requested by the Customer

None.

4.12 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/9/8 2024/9/2	2024/9/7 2025/9/1
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	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2023/9/8 2024/9/2	2024/9/7 2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Power meter	R&S	NRVD	CQA-029	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2023/9/8 2024/9/2	2024/9/7 2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2023/9/8 2024/9/2	2024/9/7 2025/9/1
LISN	R&S	ENV216	CQA-003	2023/9/8 2024/9/2	2024/9/7 2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2023/9/8 2024/9/2	2024/9/7 2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2023/9/8 2024/9/2	2024/9/7 2025/9/1

Test software:

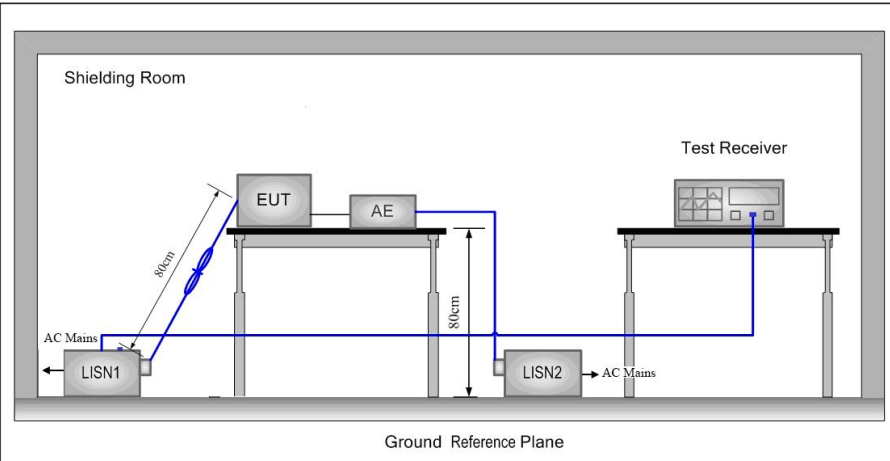
	Manufacturer	Software brand
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3

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 PIFA 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

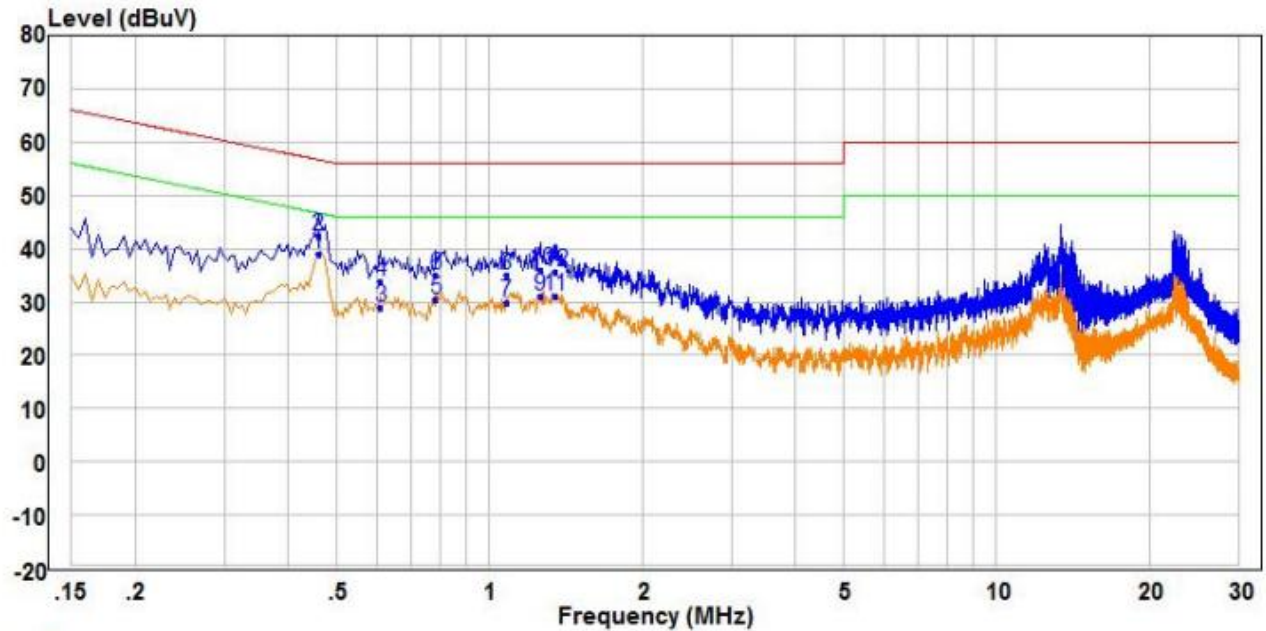
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	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 $50\Omega/50\mu\text{H} + 5\Omega$ 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: 2013 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

1#

Live Line:

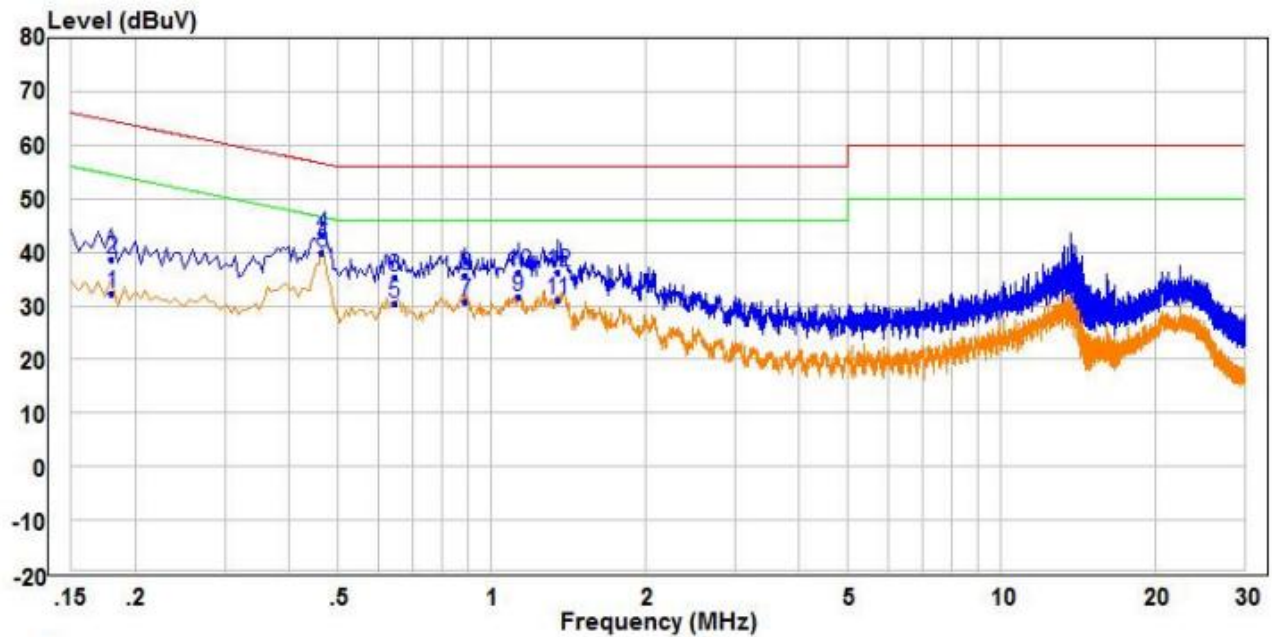


		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	PP	0.460	29.50	9.52	39.02	46.69	-7.67 Average
2	QP	0.460	32.94	9.52	42.46	56.69	-14.23 QP
3		0.610	19.16	9.72	28.88	46.00	-17.12 Average
4		0.610	24.15	9.72	33.87	56.00	-22.13 QP
5		0.785	20.63	9.77	30.40	46.00	-15.60 Average
6		0.785	25.28	9.77	35.05	56.00	-20.95 QP
7		1.080	20.48	9.52	30.00	46.00	-16.00 Average
8		1.080	25.45	9.52	34.97	56.00	-21.03 QP
9		1.260	21.70	9.52	31.22	46.00	-14.78 Average
10		1.260	26.49	9.52	36.01	56.00	-19.99 QP
11		1.345	21.54	9.53	31.07	46.00	-14.93 Average
12		1.345	26.09	9.53	35.62	56.00	-20.38 QP

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:



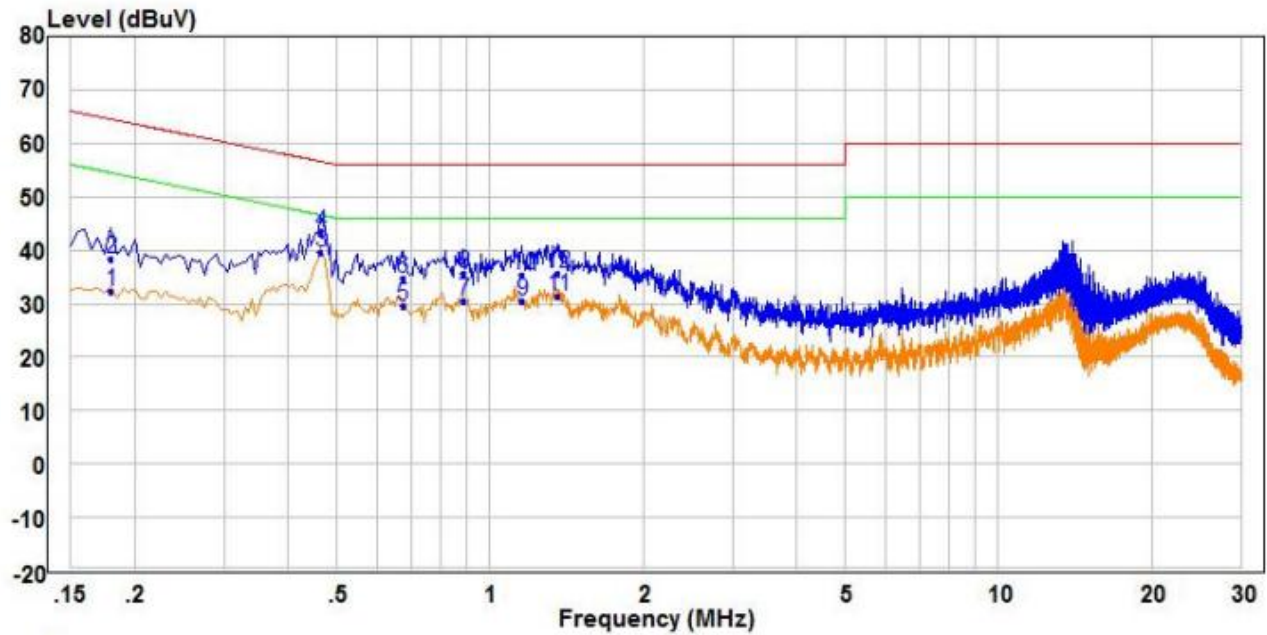
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.180	22.58	9.64	32.22	54.49	-22.27	Average	Neutral
2	0.180	28.97	9.64	38.61	64.49	-25.88	QP	Neutral
3 PP	0.465	30.26	9.67	39.93	46.60	-6.67	Average	Neutral
4 QP	0.465	33.66	9.67	43.33	56.60	-13.27	QP	Neutral
5	0.645	20.73	9.85	30.58	46.00	-15.42	Average	Neutral
6	0.645	25.34	9.85	35.19	56.00	-20.81	QP	Neutral
7	0.890	21.14	9.77	30.91	46.00	-15.09	Average	Neutral
8	0.890	25.81	9.77	35.58	56.00	-20.42	QP	Neutral
9	1.130	21.89	9.71	31.60	46.00	-14.40	Average	Neutral
10	1.130	26.65	9.71	36.36	56.00	-19.64	QP	Neutral
11	1.345	21.50	9.72	31.22	46.00	-14.78	Average	Neutral
12	1.345	26.57	9.72	36.29	56.00	-19.71	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.

2#

Live Line:

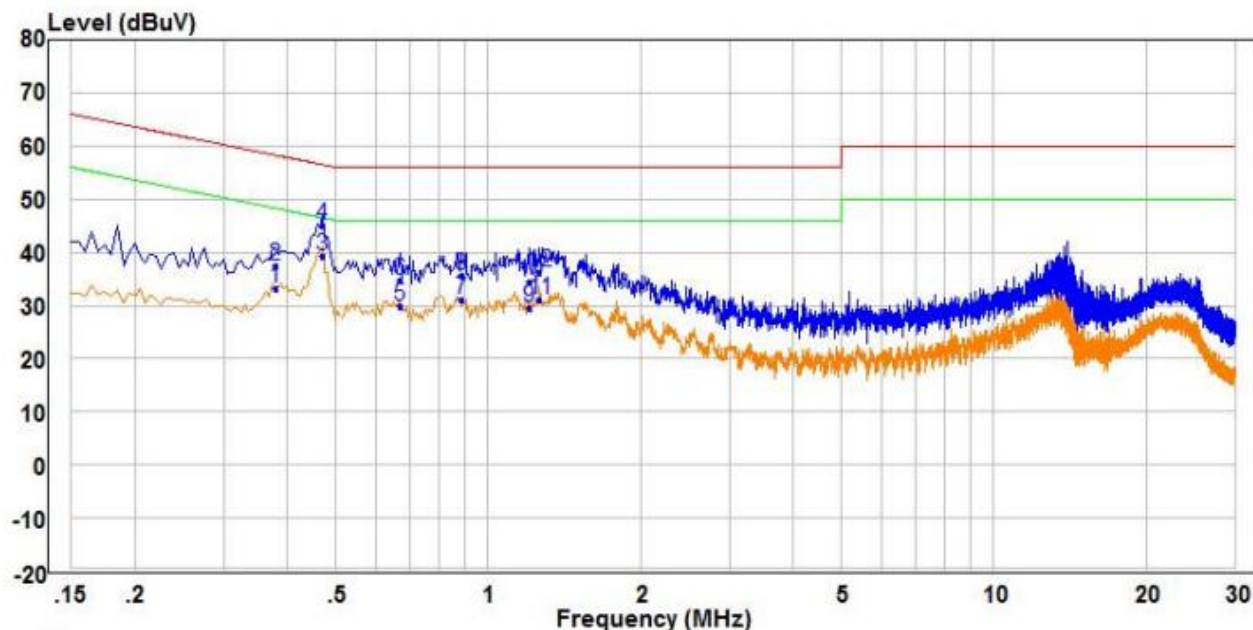


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.180	22.57	9.64	32.21	54.49	-22.28	Average	Line
2	0.180	28.83	9.64	38.47	64.49	-26.02	QP	Line
3 PP	0.465	29.87	9.67	39.54	46.60	-7.06	Average	Line
4 QP	0.465	33.59	9.67	43.26	56.60	-13.34	QP	Line
5	0.675	19.57	9.88	29.45	46.00	-16.55	Average	Line
6	0.675	24.75	9.88	34.63	56.00	-21.37	QP	Line
7	0.890	20.81	9.77	30.58	46.00	-15.42	Average	Line
8	0.890	25.82	9.77	35.59	56.00	-20.41	QP	Line
9	1.160	20.22	10.12	30.34	46.00	-15.66	Average	Line
10	1.160	25.17	10.12	35.29	56.00	-20.71	QP	Line
11	1.360	20.70	10.56	31.26	46.00	-14.74	Average	Line
12	1.360	24.94	10.56	35.50	56.00	-20.50	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:

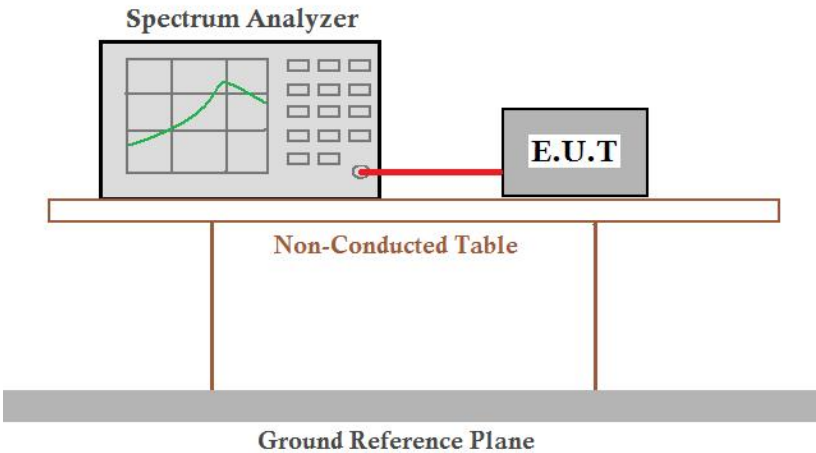


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.380	23.61	9.58	33.19	48.28	-15.09	Average	Neutral
2	0.380	27.88	9.58	37.46	58.28	-20.82	QP	Neutral
3 PP	0.470	29.73	9.67	39.40	46.51	-7.11	Average	Neutral
4 QP	0.470	35.51	9.67	45.18	56.51	-11.33	QP	Neutral
5	0.670	20.13	9.87	30.00	46.00	-16.00	Average	Neutral
6	0.670	24.83	9.87	34.70	56.00	-21.30	QP	Neutral
7	0.885	21.33	9.78	31.11	46.00	-14.89	Average	Neutral
8	0.885	25.90	9.78	35.68	56.00	-20.32	QP	Neutral
9	1.205	19.91	9.71	29.62	46.00	-16.38	Average	Neutral
10	1.205	24.82	9.71	34.53	56.00	-21.47	QP	Neutral
11	1.265	21.33	9.71	31.04	46.00	-14.96	Average	Neutral
12	1.265	26.41	9.71	36.12	56.00	-19.88	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: 2013
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	12.54	≤30.00	PASS
	2437	12.99	≤30.00	PASS
	2462	14.19	≤30.00	PASS
11G	2412	8.99	≤30.00	PASS
	2437	9.86	≤30.00	PASS
	2462	11.42	≤30.00	PASS
11N20SISO	2412	8.85	≤30.00	PASS
	2437	9.73	≤30.00	PASS
	2462	11.58	≤30.00	PASS
11N40SISO	2422	10.85	≤30.00	PASS
	2437	11.15	≤30.00	PASS
	2452	11.70	≤30.00	PASS
11AX20SISO	2412	11.92	≤30.00	PASS
	2437	11.01	≤30.00	PASS
	2462	11.63	≤30.00	PASS
11AX40SISO	2422	11.42	≤30.00	PASS
	2437	11.26	≤30.00	PASS
	2452	11.78	≤30.00	PASS

ANT2:

Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	9.38	≤30.00	PASS
	2437	8.80	≤30.00	PASS
	2462	9.63	≤30.00	PASS
11G	2412	11.23	≤30.00	PASS
	2437	10.77	≤30.00	PASS
	2462	11.66	≤30.00	PASS
11N20SISO	2412	10.09	≤30.00	PASS
	2437	9.71	≤30.00	PASS
	2462	10.58	≤30.00	PASS
11N40SISO	2422	10.11	≤30.00	PASS
	2437	10.40	≤30.00	PASS
	2452	10.50	≤30.00	PASS
11AX20SISO	2412	11.71	≤30.00	PASS
	2437	10.87	≤30.00	PASS
	2462	11.58	≤30.00	PASS
11AX40SISO	2422	11.63	≤30.00	PASS
	2437	11.21	≤30.00	PASS
	2452	12.00	≤30.00	PASS

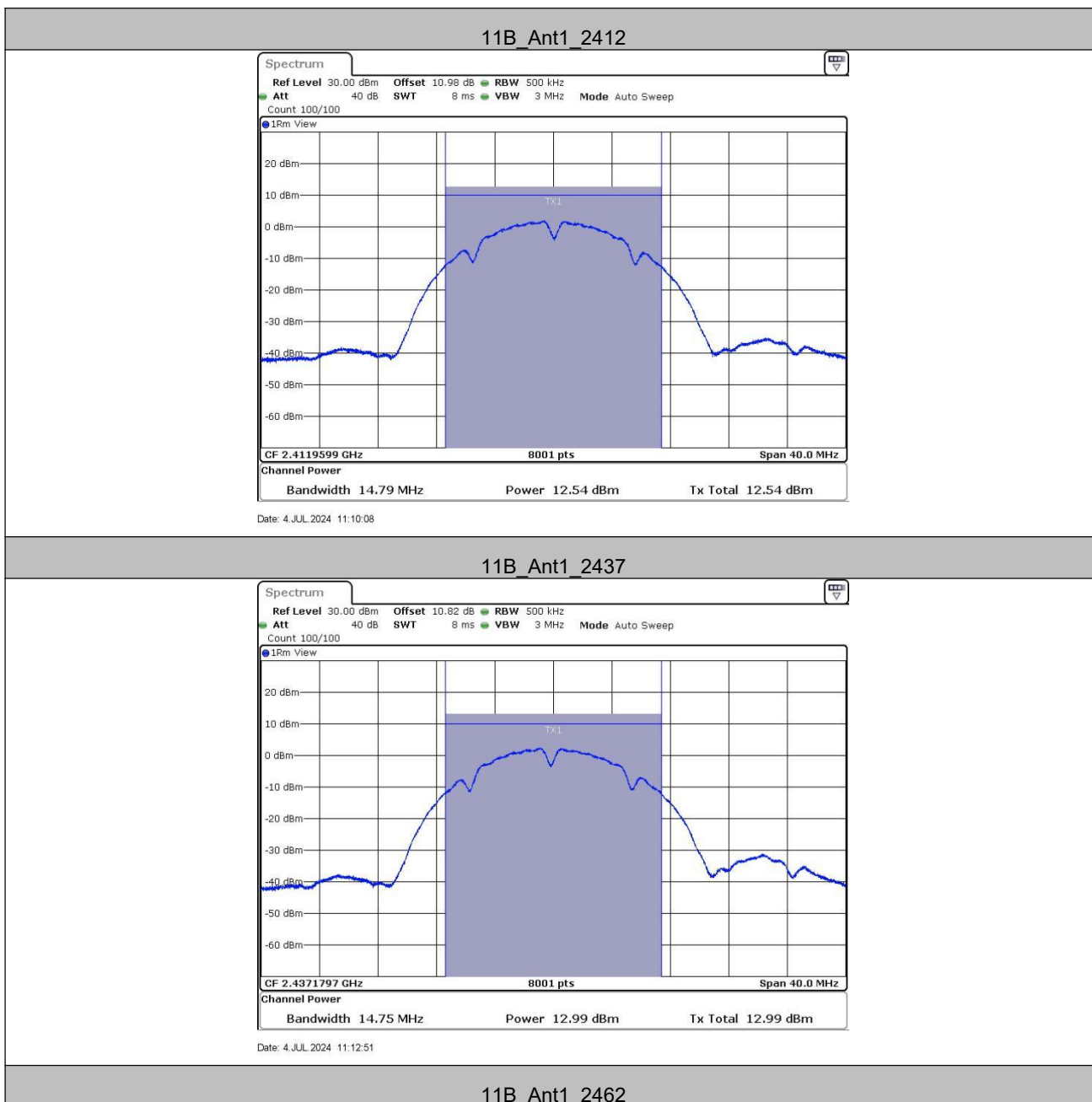
ANT1+ANT2:

Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11N20MIMO	2412	12.52	≤30.00	PASS
	2437	12.73	≤30.00	PASS
	2462	14.12	≤30.00	PASS
11N40MIMO	2422	13.51	≤30.00	PASS
	2437	13.80	≤30.00	PASS
	2452	14.15	≤30.00	PASS
11AX20MIMO	2412	14.83	≤30.00	PASS
	2437	13.95	≤30.00	PASS
	2462	14.62	≤30.00	PASS
11AX40MIMO	2422	14.54	≤30.00	PASS
	2437	14.25	≤30.00	PASS
	2452	14.90	≤30.00	PASS

Note:

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

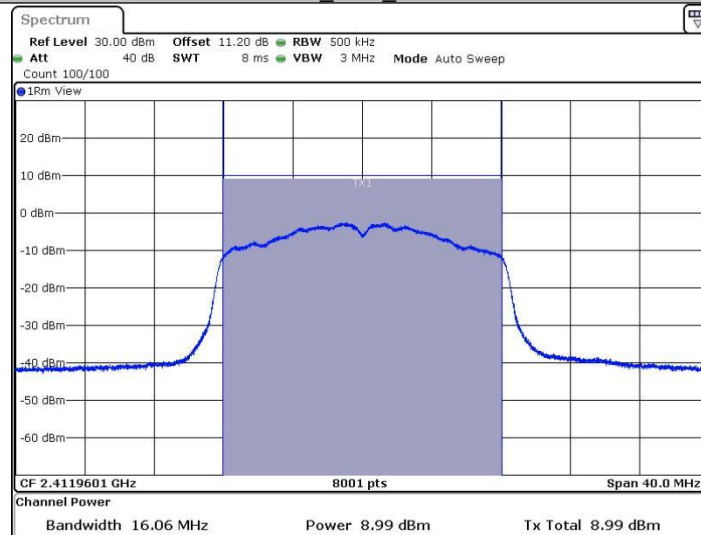
Test Graphs





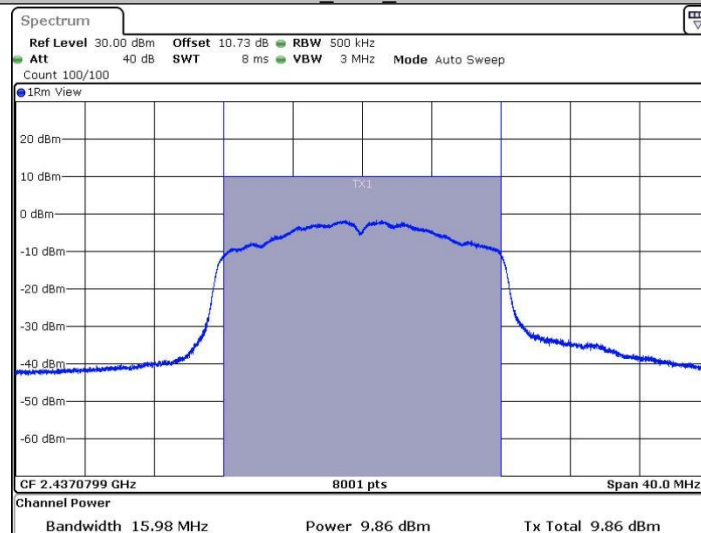
Date: 4 JUL 2024 11:14:20

11G_Ant1_2412



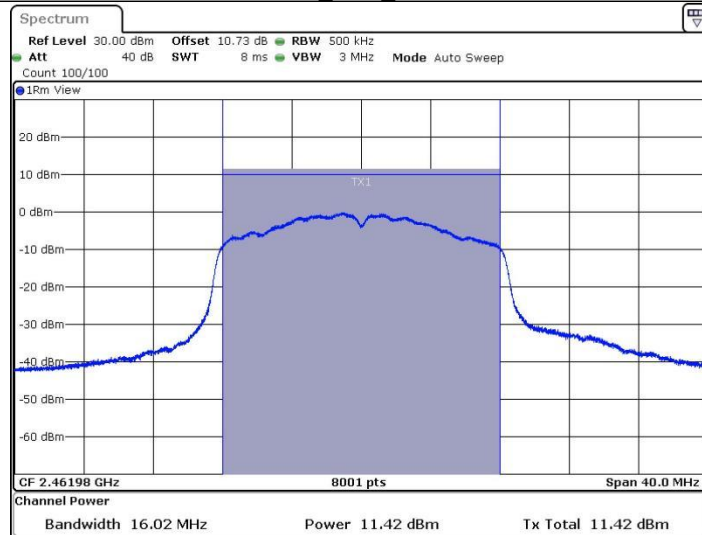
Date: 4 JUL 2024 11:18:15

11G_Ant1_2437

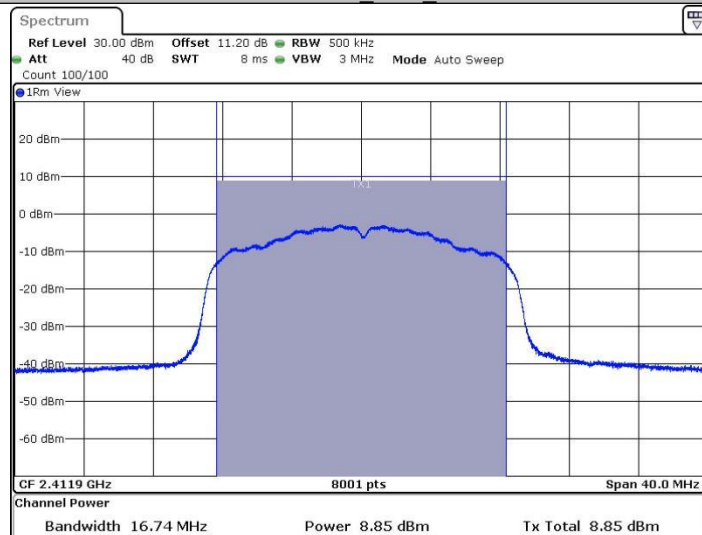


Date: 4 JUL 2024 11:22:10

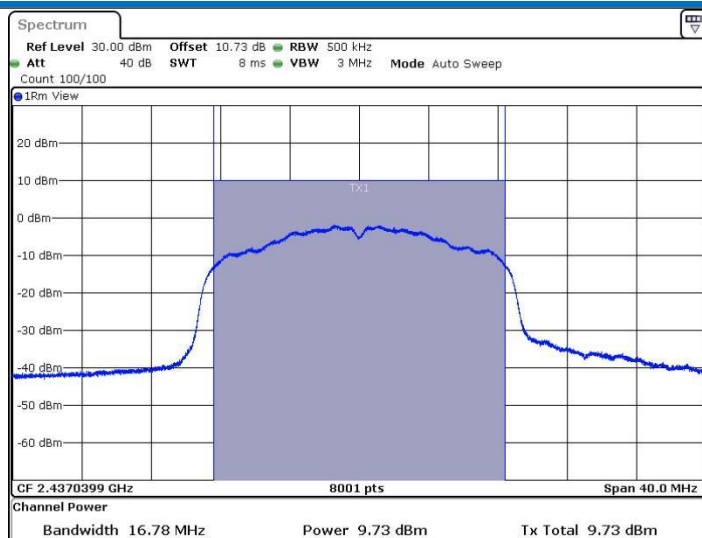
11G_Ant1_2462



11N20SISO_Ant1_2412

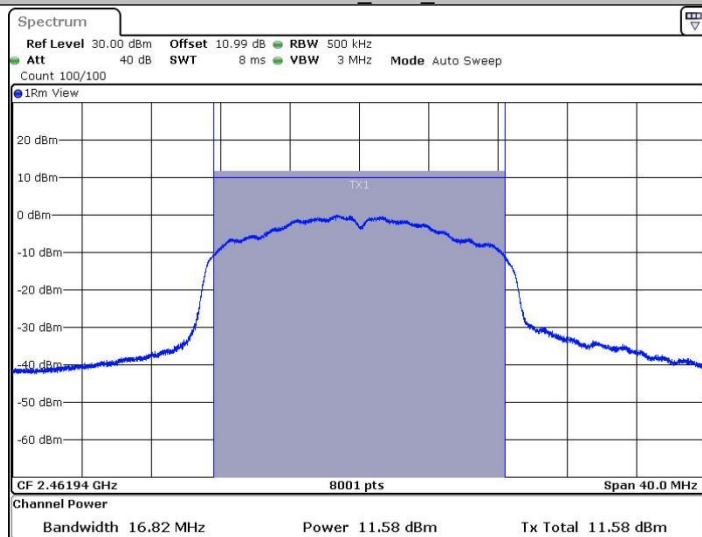


11N20SISO_Ant1_2437



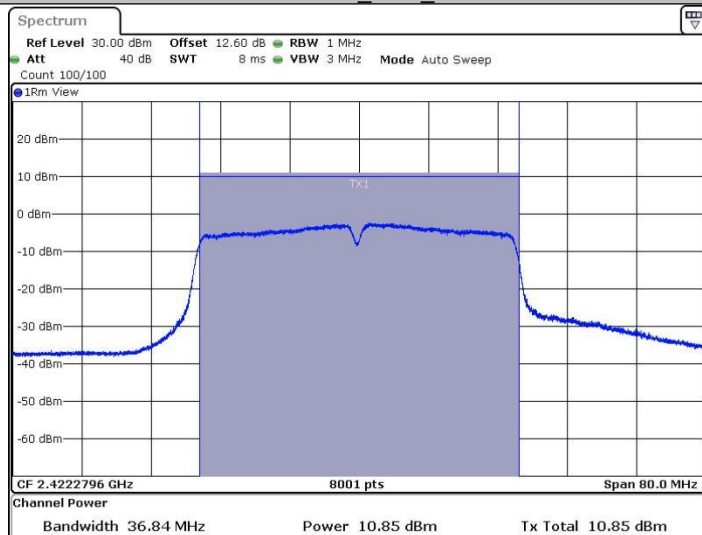
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11N20SISO_Ant1_2462



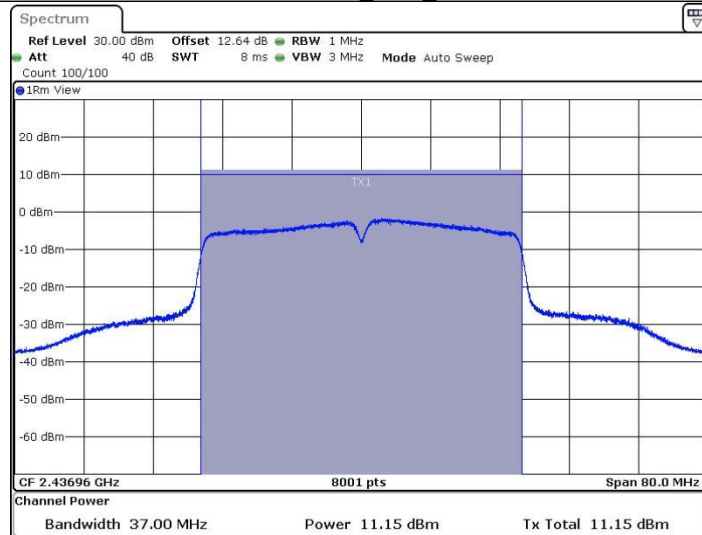
Date: 4 JUL 2024 11:38:21

11N40SISO_Ant1_2422



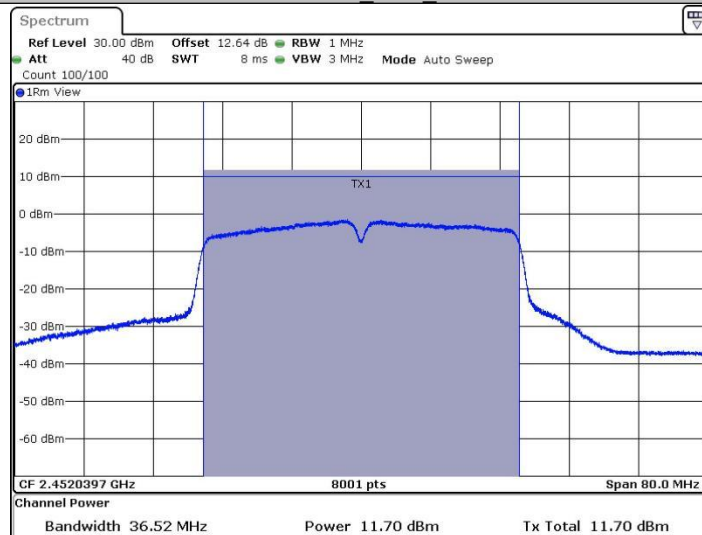
Date: 5 JUL 2024 10:45:11

11N40SISO_Ant1_2437



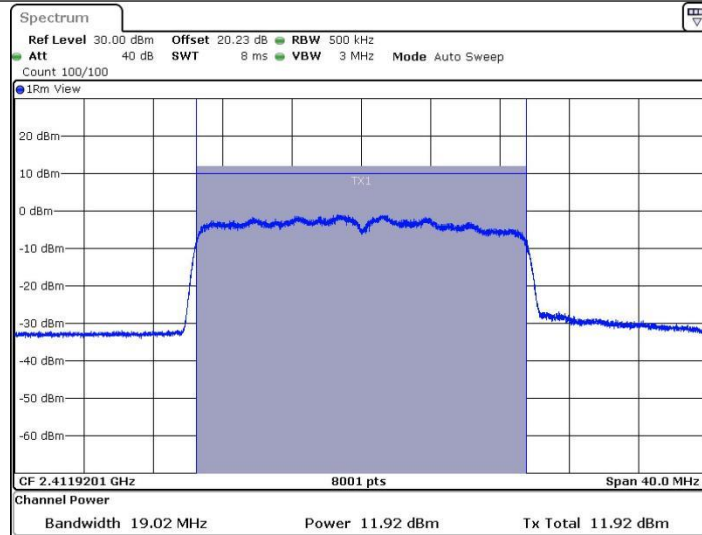
Date: 5 JUL 2024 10:47:58

11N40SISO_Ant1_2452



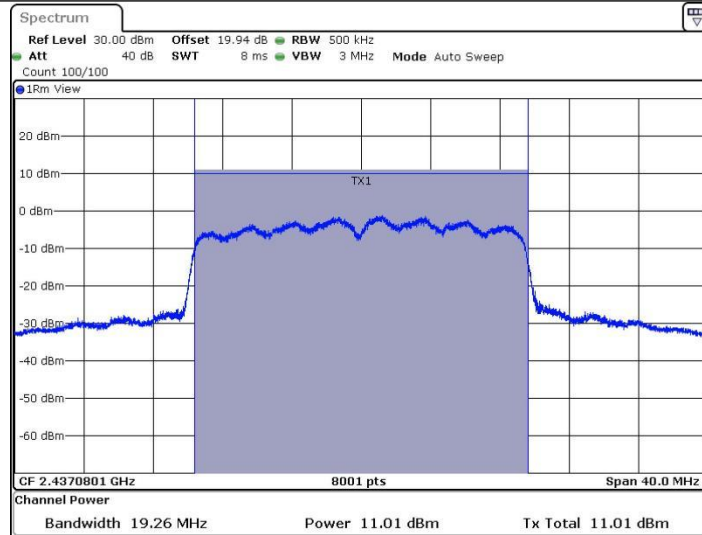
Date: 5 JUL 2024 10:49:39

11AX20SISO_Ant1_2412



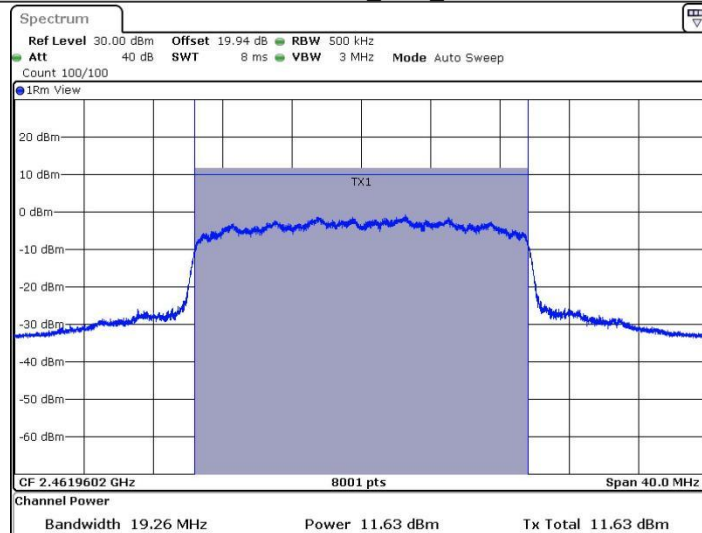
Date: 31.JUL.2024 11:45:58

11AX20SISO_Ant1_2437



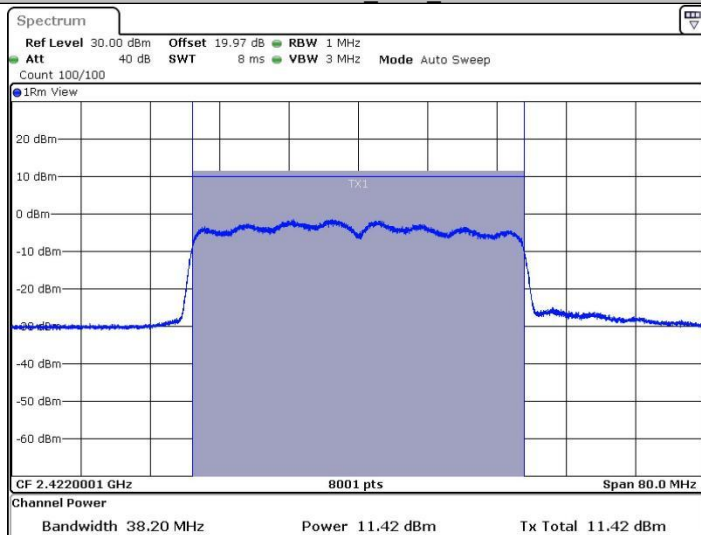
Date: 31.JUL.2024 11:49:07

11AX20SISO_Ant1_2462



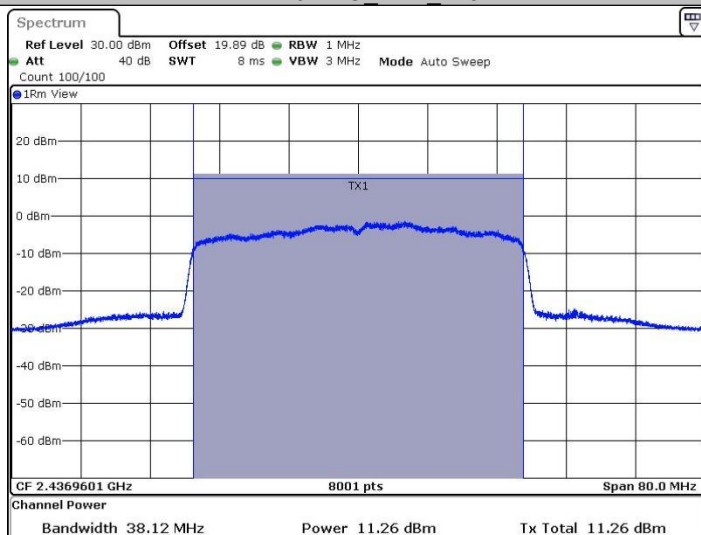
Date: 31.JUL.2024 11:50:40

11AX40SISO_Ant1_2422



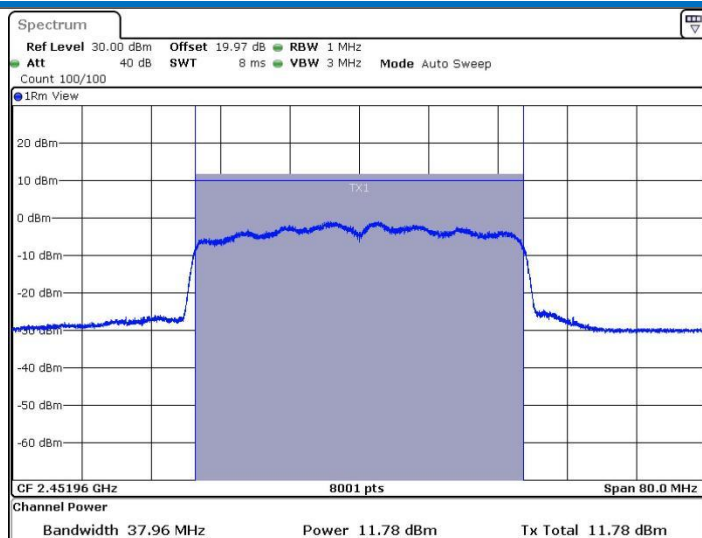
Date: 31.JUL.2024 11:53:48

11AX40SISO_Ant1_2437



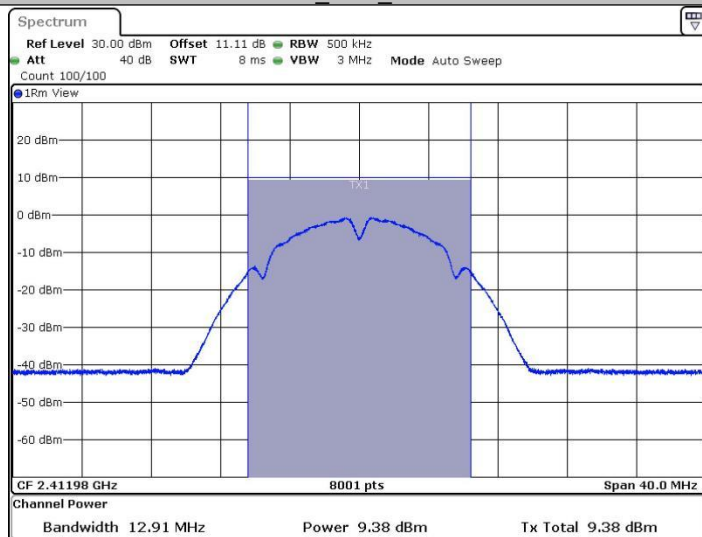
Date: 31.JUL.2024 11:57:16

11AX40SISO_Ant1_2452



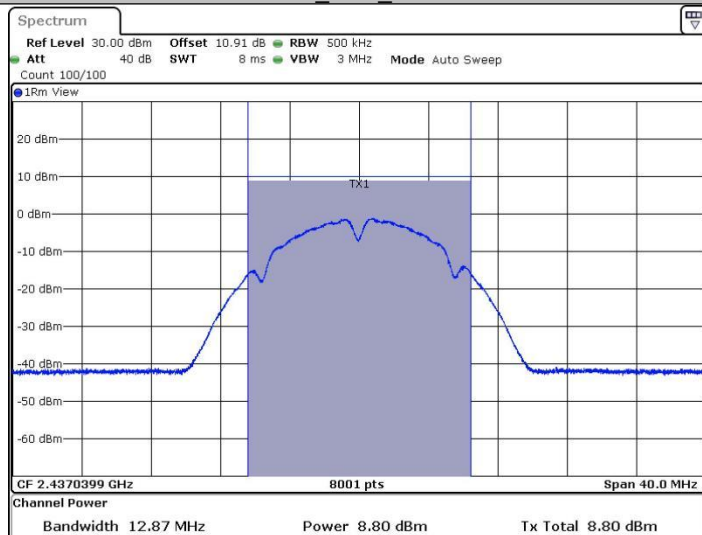
Date: 31 JUL 2024 11:58:59

11B_Ant2_2412



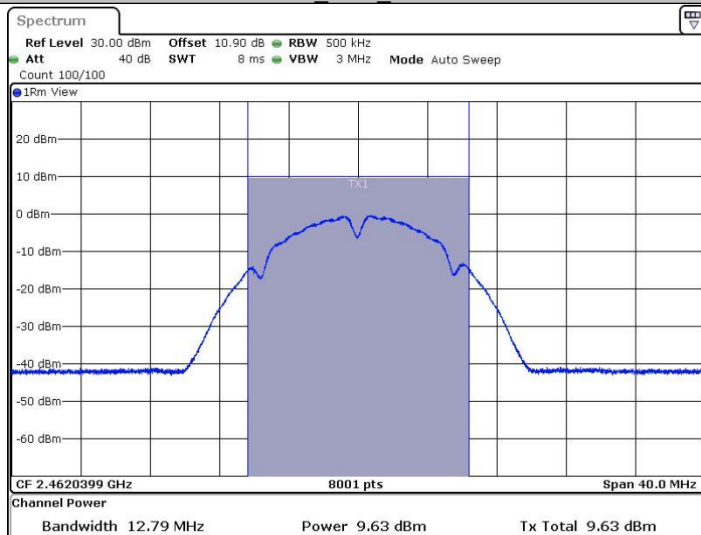
Date: 5 JUL 2024 11:10:30

11B_Ant2_2437



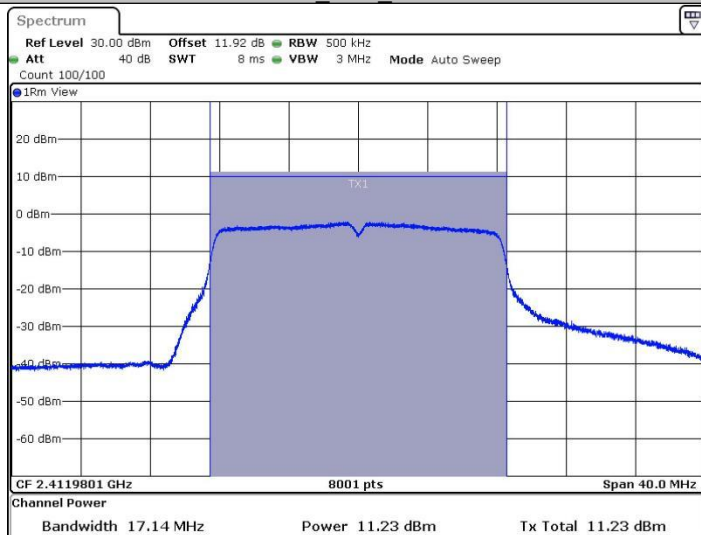
Date: 5 JUL 2024 11:15:07

11B_Ant2_2462



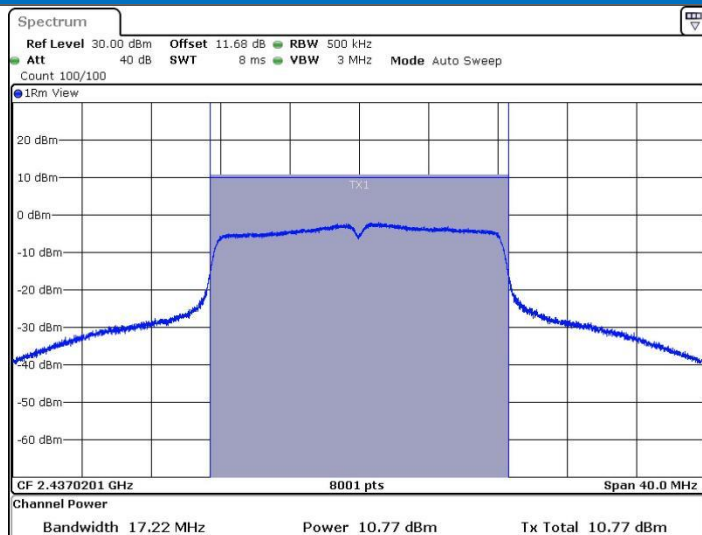
Date: 5 JUL 2024 11:17:18

11G_Ant2_2412



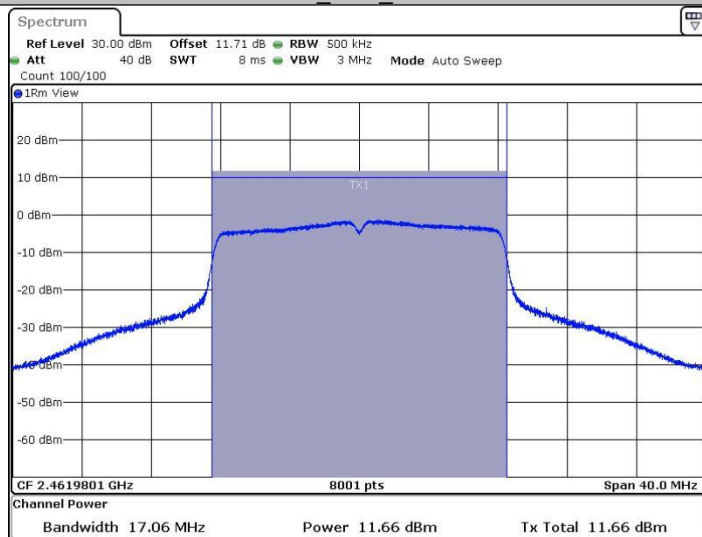
Date: 5 JUL 2024 11:26:46

11G_Ant2_2437



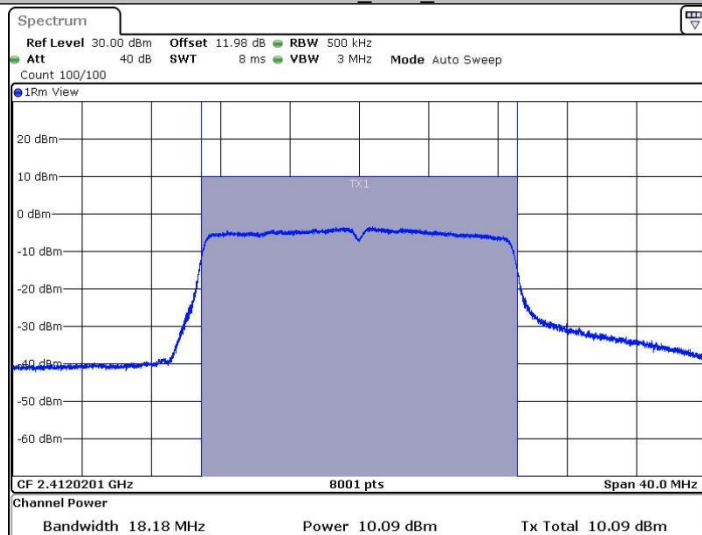
Date: 5 JUL 2024 11:31:11

11G_Ant2_2462



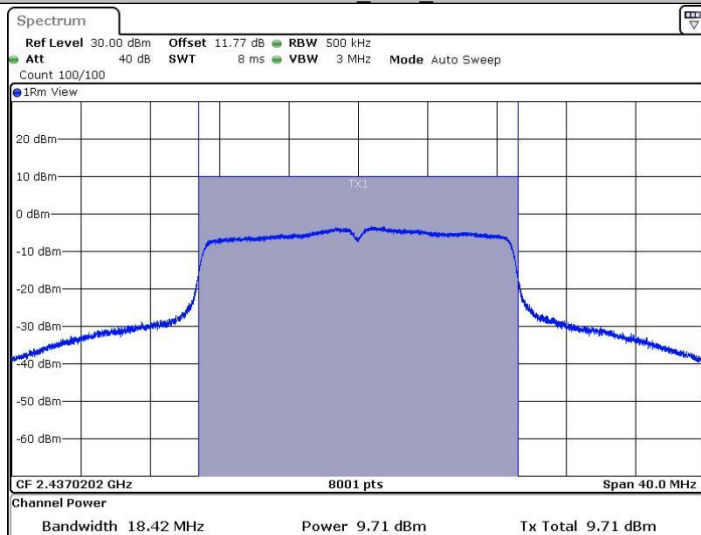
Date: 5 JUL 2024 11:32:54

11N20SISO_Ant2_2412

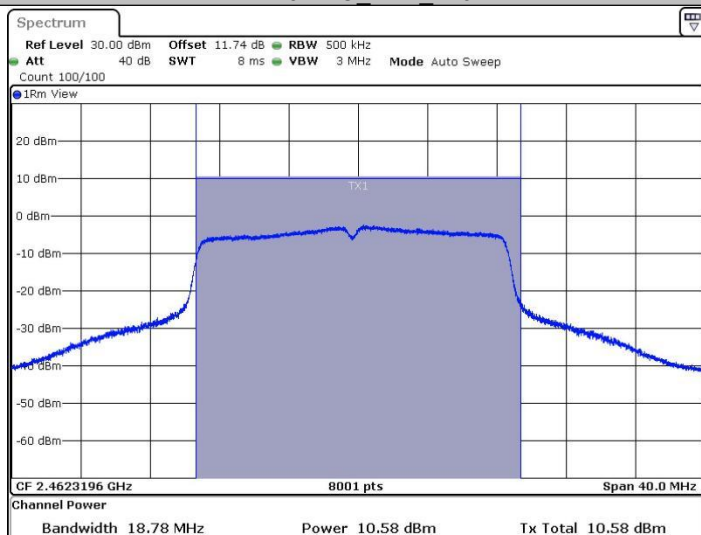


Date: 5 JUL 2024 11:35:55

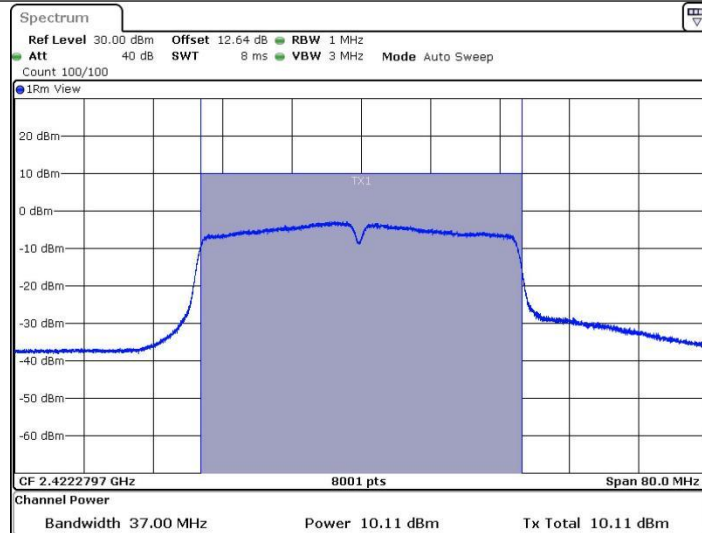
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462

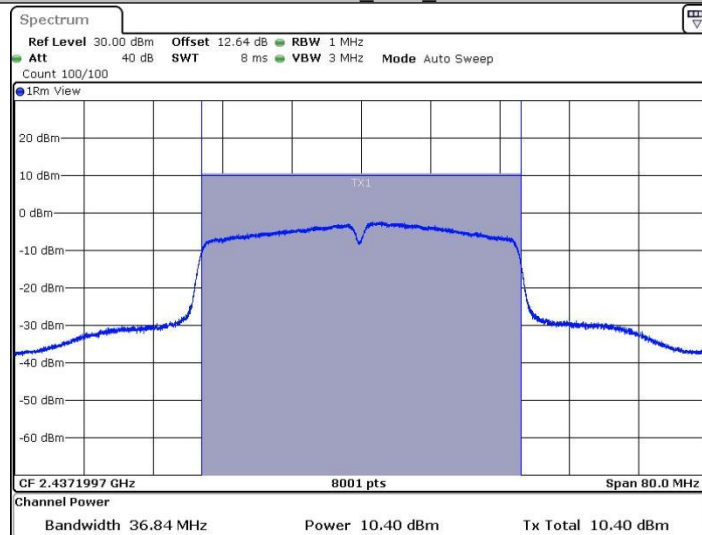


11N40SISO_Ant2_2422



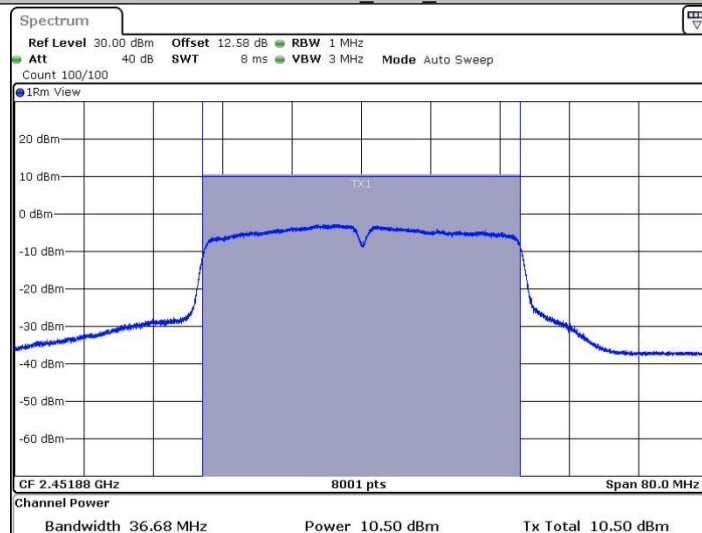
Date: 5 JUL 2024 11:43:02

11N40SISO_Ant2_2437



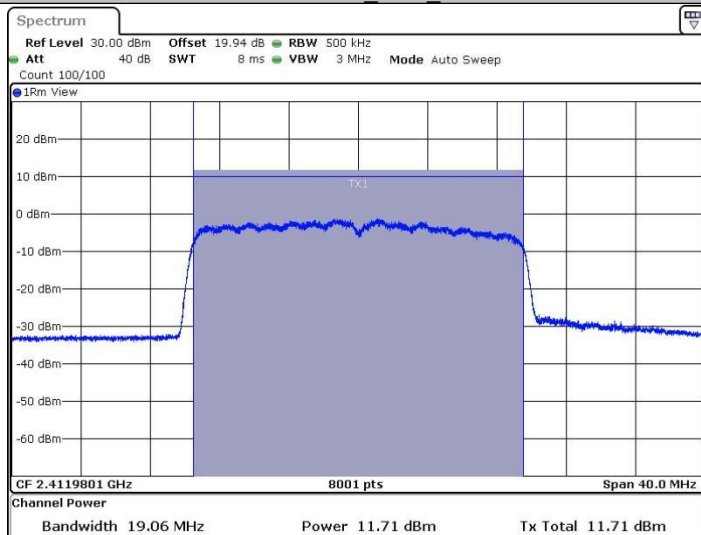
Date: 5 JUL 2024 11:46:02

11N40SISO_Ant2_2452



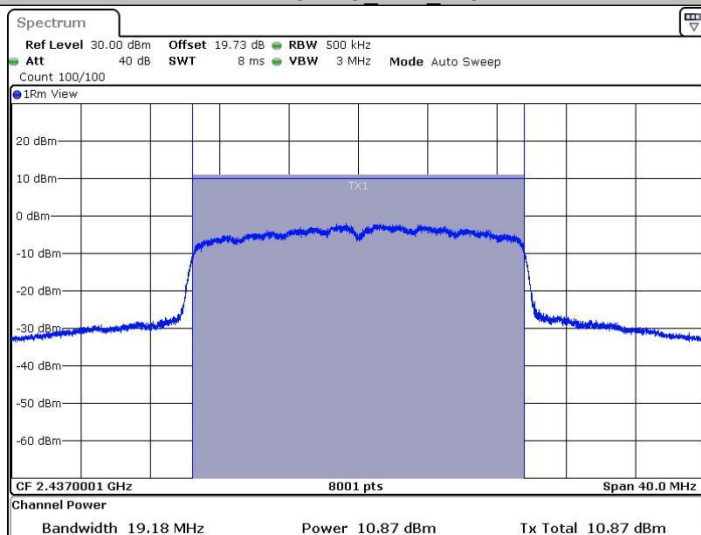
Date: 5 JUL 2024 11:47:47

11AX20SISO_Ant2_2412



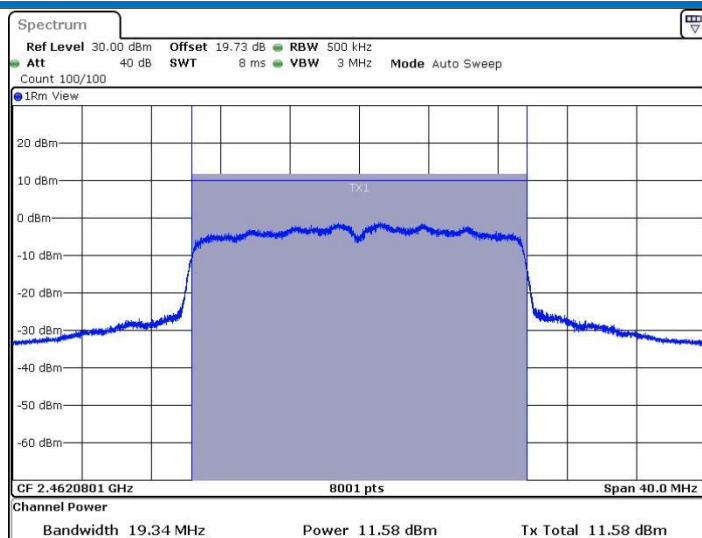
Date: 31.JUL.2024 13:40:03

11AX20SISO_Ant2_2437



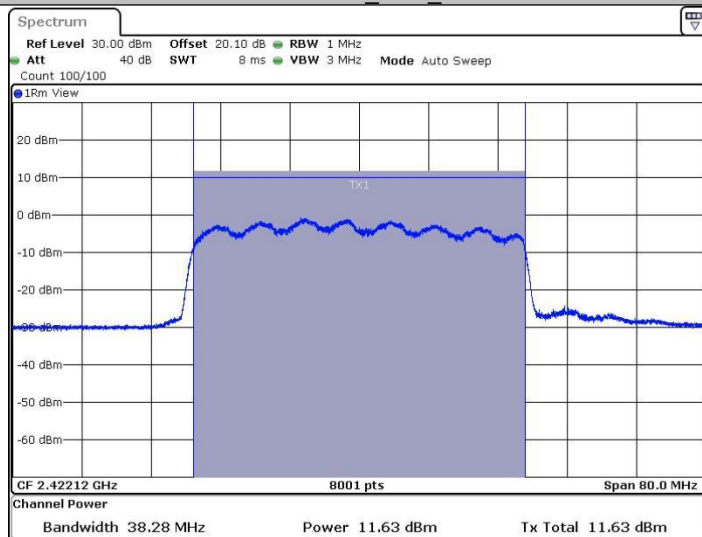
Date: 31.JUL.2024 13:42:36

11AX20SISO_Ant2_2462



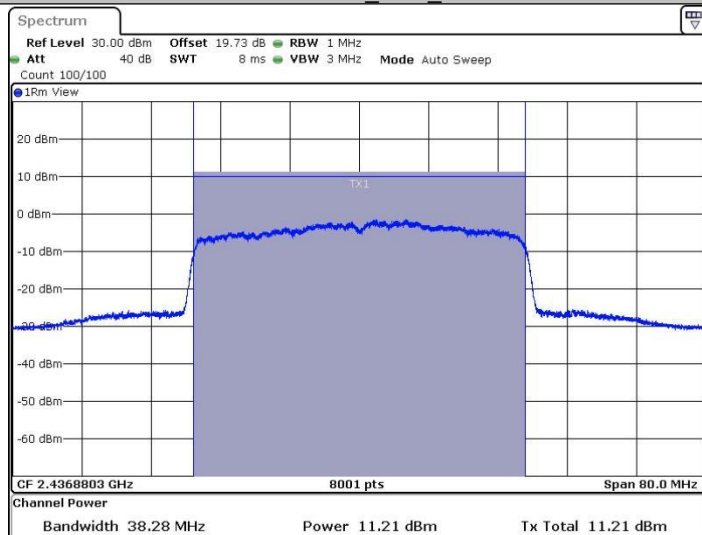
Date: 31.JUL.2024 13:44:15

11AX40SISO_Ant2_2422

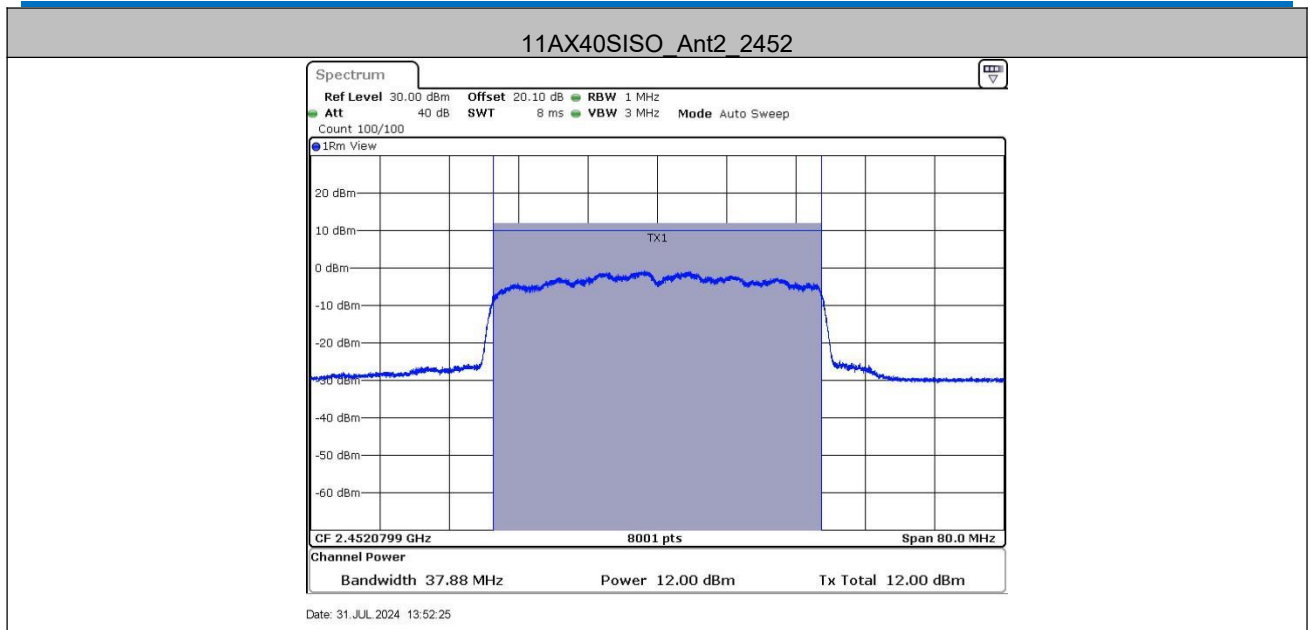


Date: 31.JUL.2024 13:47:17

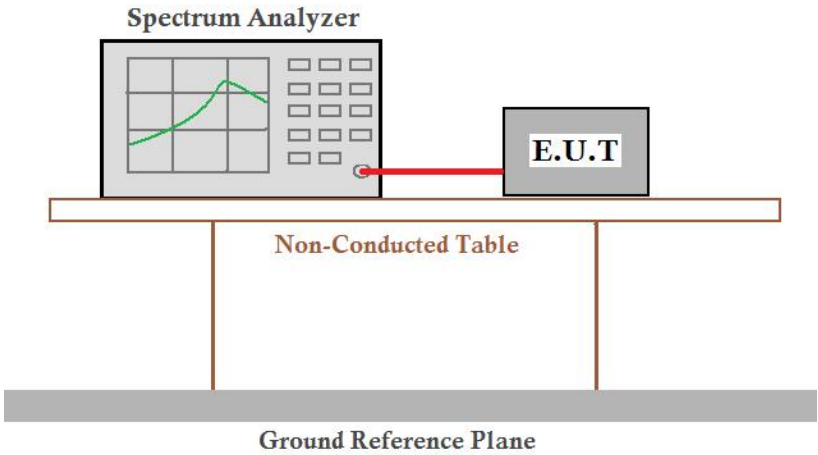
11AX40SISO_Ant2_2437



Date: 31.JUL.2024 13:50:22



5.4 6dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013
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

Test Result

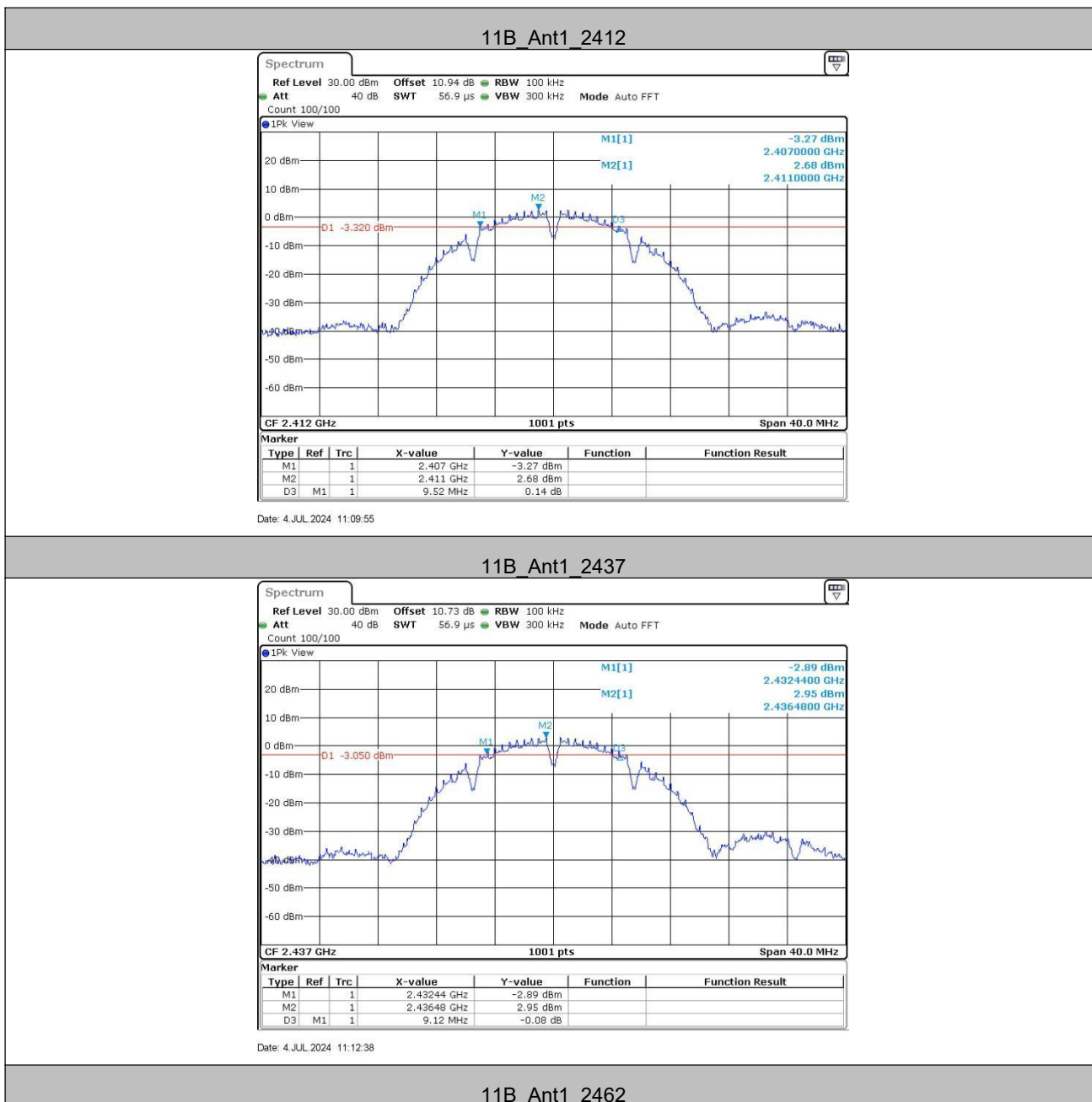
ANT1:

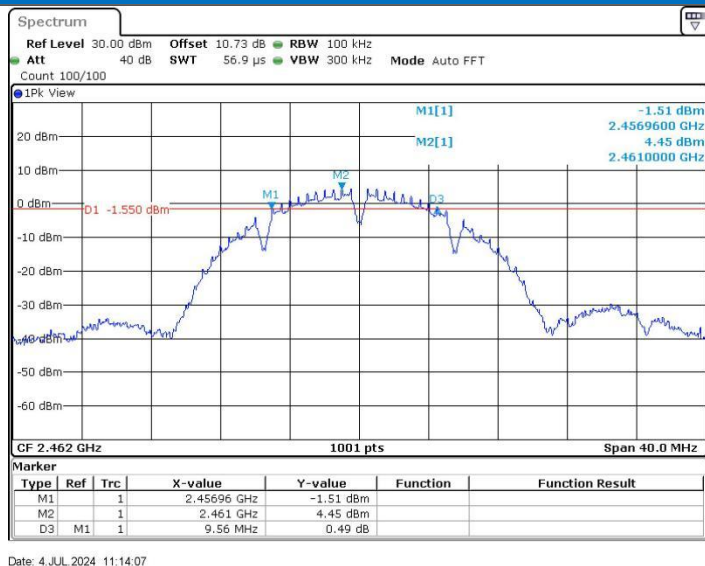
TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	9.52	2407.00	2416.52	0.5	PASS
	2437	9.12	2432.44	2441.56	0.5	PASS
	2462	9.56	2456.96	2466.52	0.5	PASS
11G	2412	11.32	2405.72	2417.04	0.5	PASS
	2437	11.32	2430.72	2442.04	0.5	PASS
	2462	11.32	2455.72	2467.04	0.5	PASS
11N20SISO	2412	11.32	2405.72	2417.04	0.5	PASS
	2437	10.08	2431.96	2442.04	0.5	PASS
	2462	11.32	2455.72	2467.04	0.5	PASS
11N40SISO	2422	35.12	2404.40	2439.52	0.5	PASS
	2437	35.12	2419.40	2454.52	0.5	PASS
	2452	35.12	2434.40	2469.52	0.5	PASS
11AX20SISO	2412	17.92	2402.52	2420.44	0.5	PASS
	2437	16.36	2429.40	2445.76	0.5	PASS
	2462	17.08	2454.20	2471.28	0.5	PASS
11AX40SISO	2422	36.00	2403.52	2439.52	0.5	PASS
	2437	36.40	2419.40	2455.80	0.5	PASS
	2452	36.40	2434.40	2470.80	0.5	PASS

ANT2:

TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	8.04	2407.96	2416.00	0.5	PASS
	2437	8.04	2432.96	2441.00	0.5	PASS
	2462	7.52	2458.44	2465.96	0.5	PASS
11G	2412	16.36	2403.80	2420.16	0.5	PASS
	2437	15.72	2429.40	2445.12	0.5	PASS
	2462	15.44	2454.44	2469.88	0.5	PASS
11N20SISO	2412	17.56	2403.20	2420.76	0.5	PASS
	2437	16.96	2428.80	2445.76	0.5	PASS
	2462	16.96	2453.80	2470.76	0.5	PASS
11N40SISO	2422	35.12	2404.40	2439.52	0.5	PASS
	2437	35.36	2419.40	2454.76	0.5	PASS
	2452	35.12	2434.40	2469.52	0.5	PASS
11AX20SISO	2412	16.96	2402.60	2419.56	0.5	PASS
	2437	16.36	2429.40	2445.76	0.5	PASS
	2462	16.60	2454.40	2471.00	0.5	PASS
11AX40SISO	2422	36.48	2404.32	2440.80	0.5	PASS
	2437	35.04	2419.48	2454.52	0.5	PASS
	2452	36.32	2434.48	2470.80	0.5	PASS

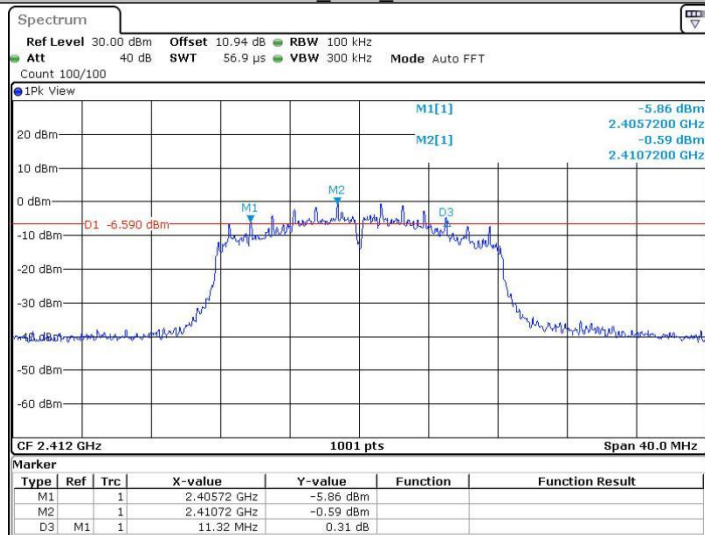
Test Graphs





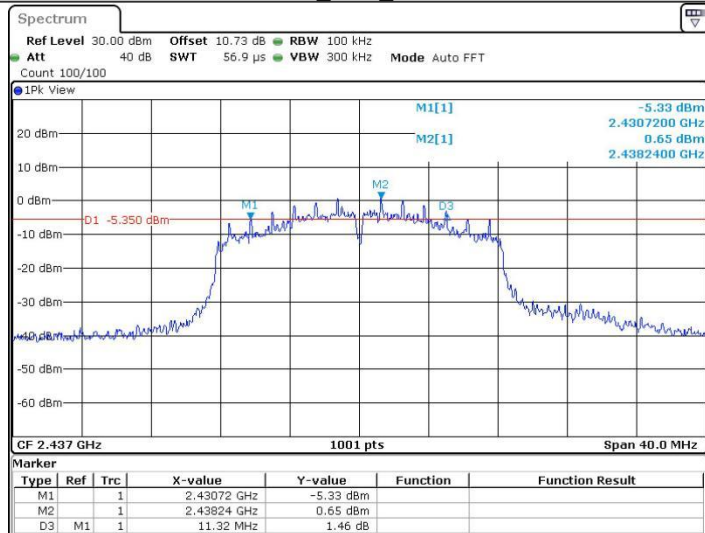
Date: 4 JUL 2024 11:14:07

11G_Ant1_2412



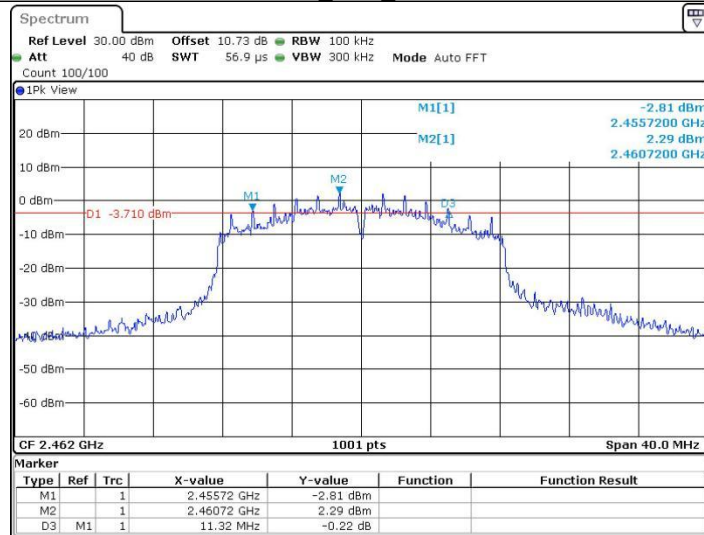
Date: 4 JUL 2024 11:18:02

11G_Ant1_2437



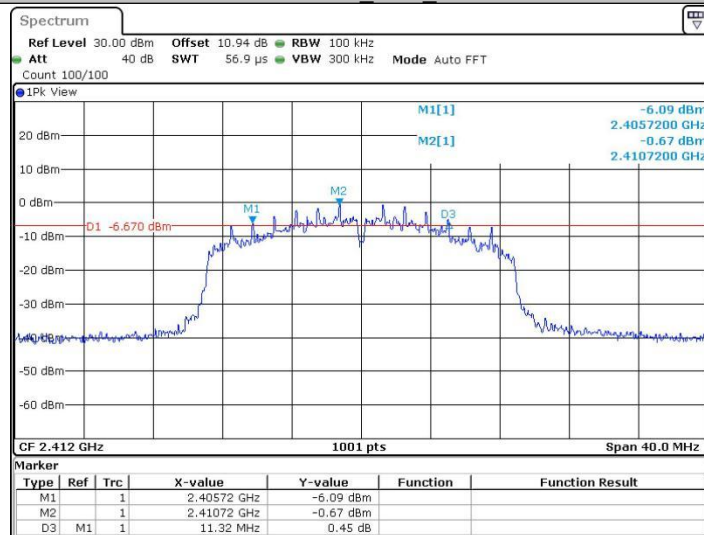
Date: 4 JUL 2024 11:21:57

11G_Ant1_2462



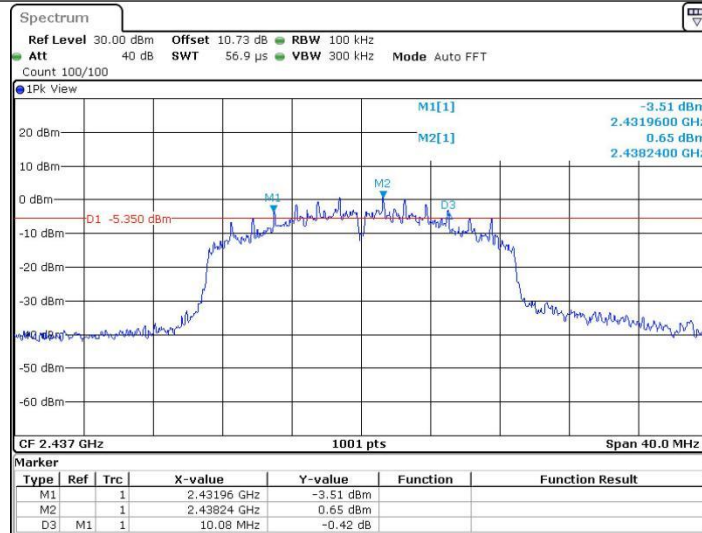
Date: 4 JUL 2024 11:28:15

11N20SISO_Ant1_2412



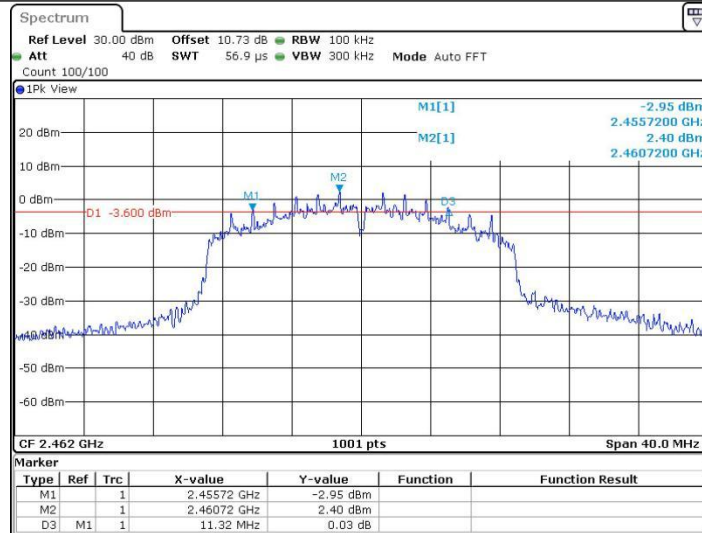
Date: 4 JUL 2024 11:33:32

11N20SISO_Ant1_2437



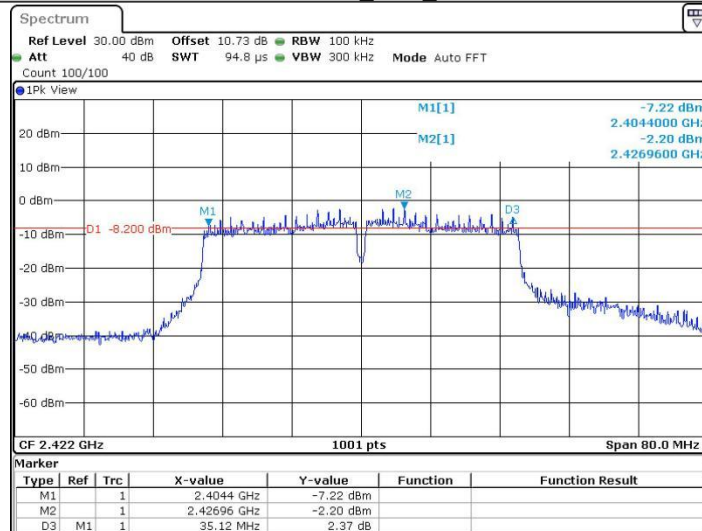
Date: 4 JUL 2024 11:36:18

11N20SISO_Ant1_2462



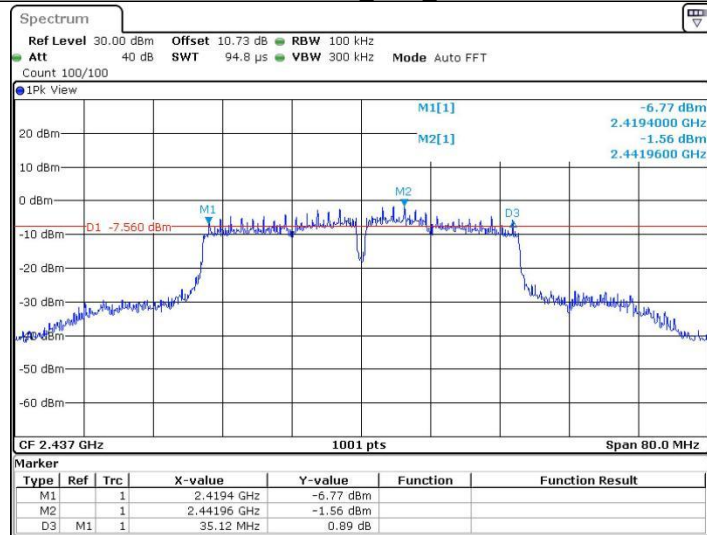
Date: 4 JUL 2024 11:38:07

11N40SISO_Ant1_2422



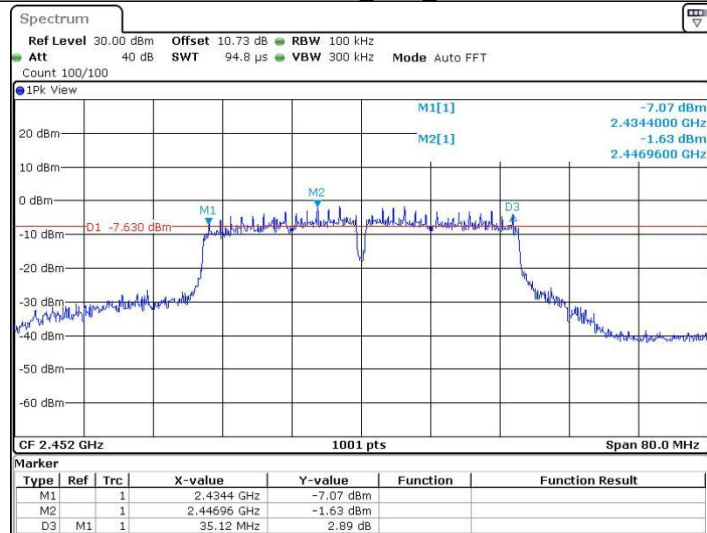
Date: 5 JUL 2024 10:44:57

11N40SISO Ant1 2437



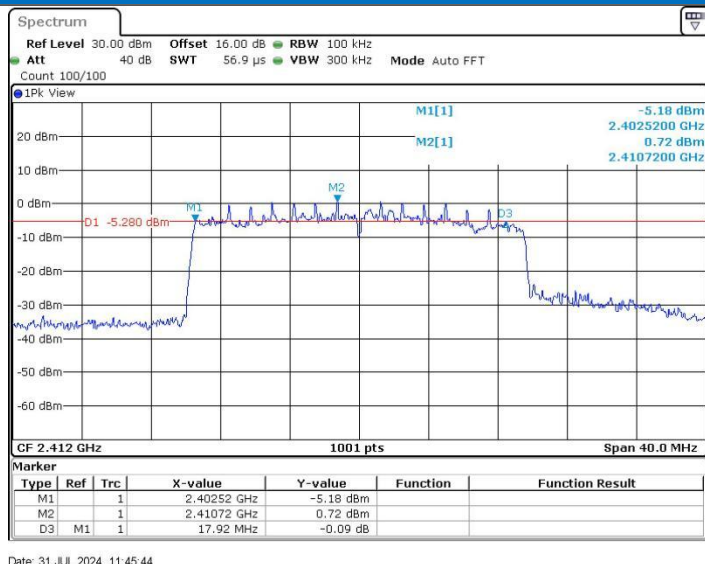
Date: 5 JUL 2024 10:47:44

11N40SISO Ant1 2452



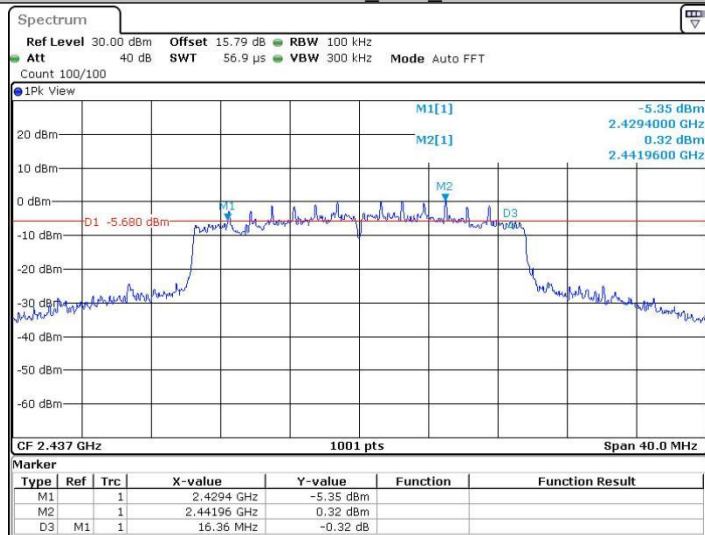
Date: 5 JUL 2024 10:49:26

11AX20SISO Ant1 2412



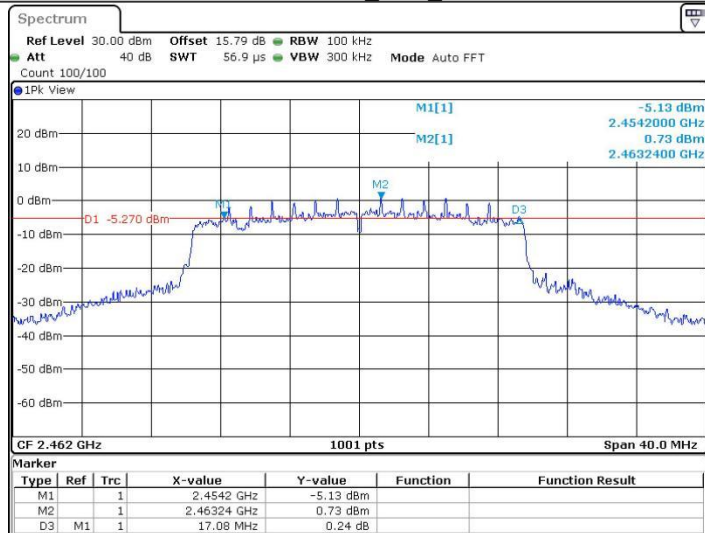
Date: 31.JUL.2024 11:45:44

11AX20SISO_Ant1_2437



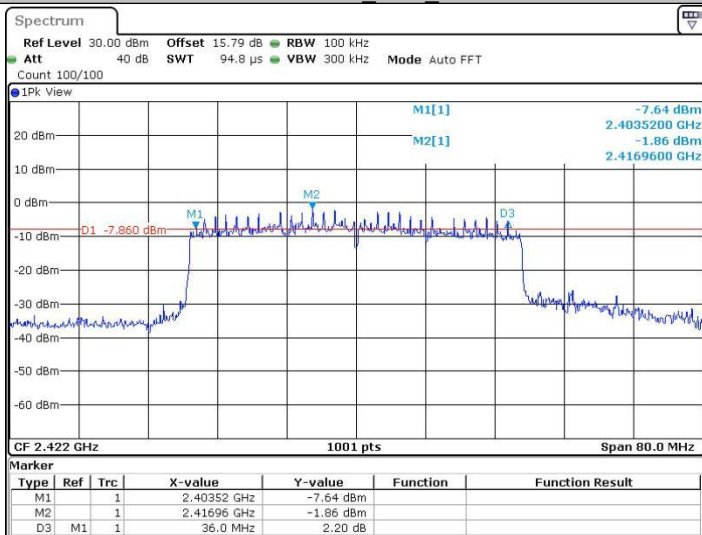
Date: 31.JUL.2024 11:48:54

11AX20SISO_Ant1_2462



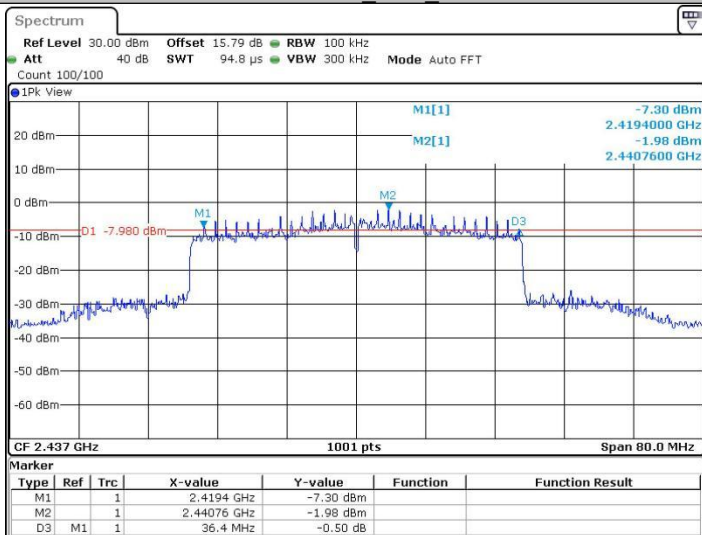
Date: 31.JUL.2024 11:50:27

11AX40SISO_Ant1_2422



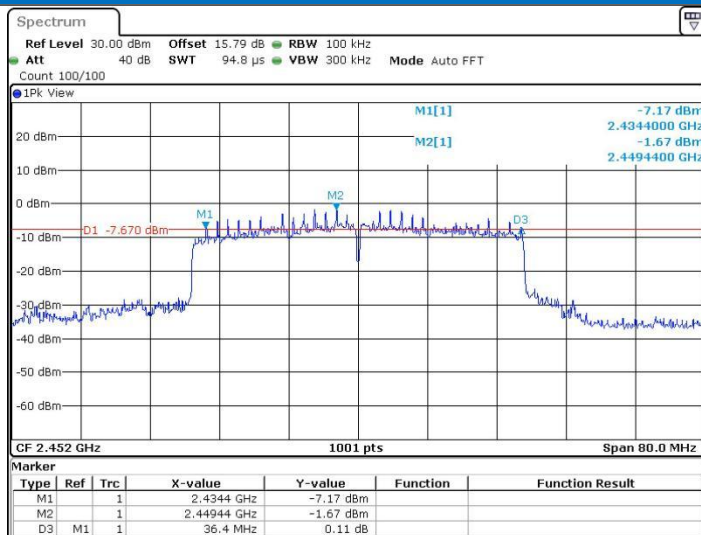
Date: 31.JUL 2024 11:53:35

11AX40SISO_Ant1_2437



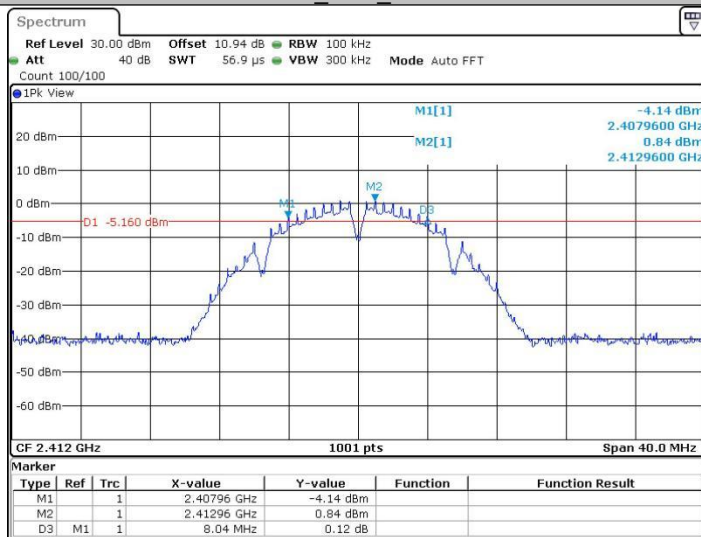
Date: 31.JUL 2024 11:57:03

11AX40SISO_Ant1_2452



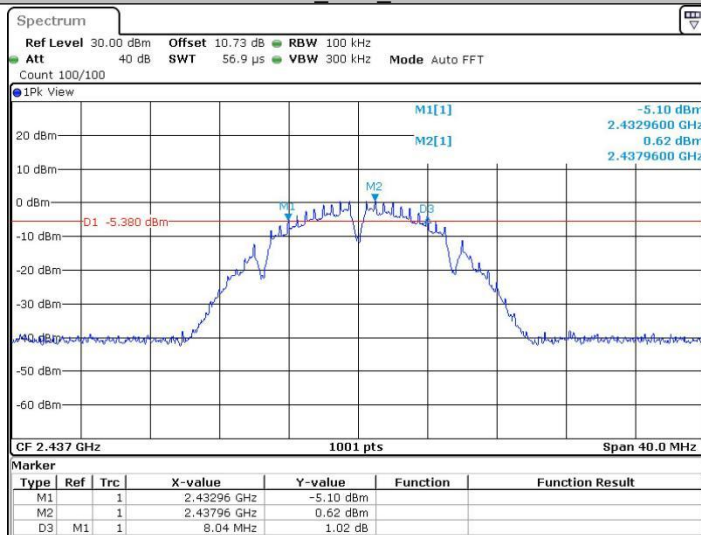
Date: 31.JUL.2024 11:58:46

11B_Ant2_2412



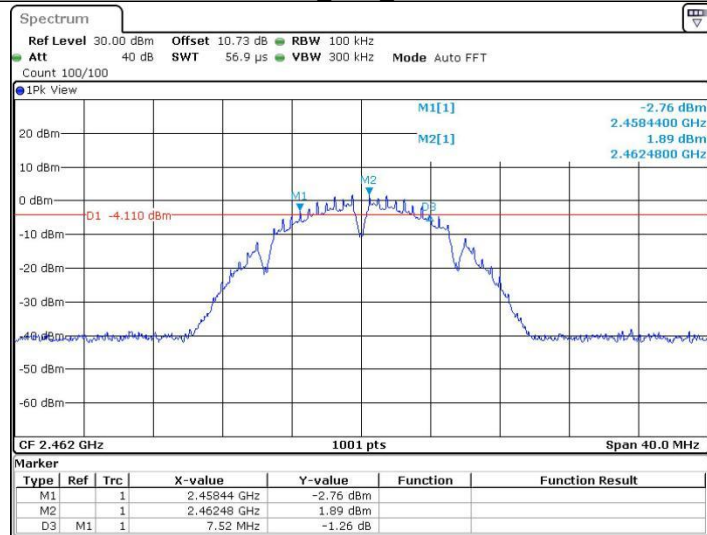
Date: 5.JUL.2024 11:10:16

11B_Ant2_2437



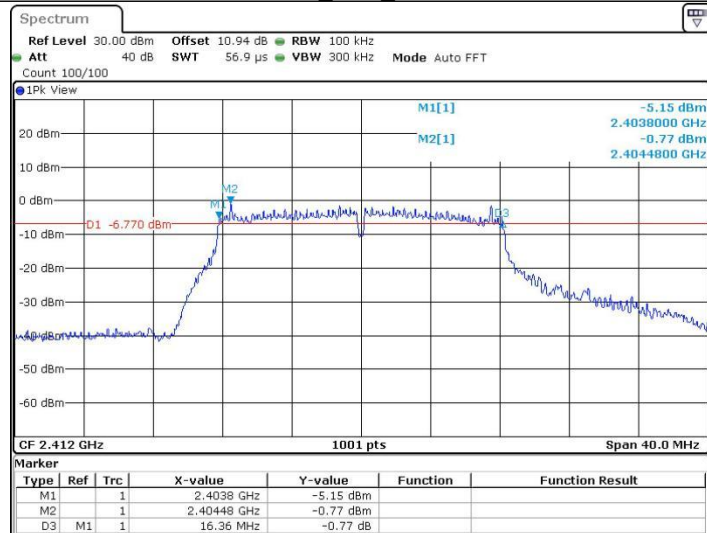
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11B Ant2_2462



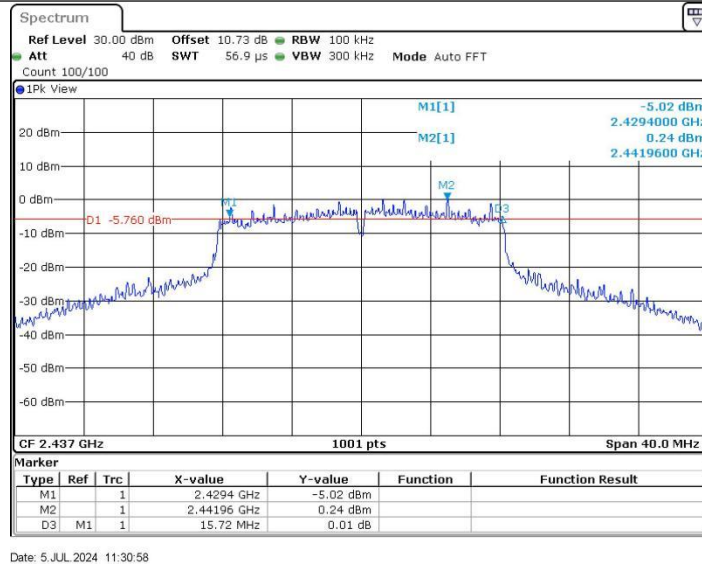
Date: 5 JUL 2024 11:17:05

11G Ant2_2412

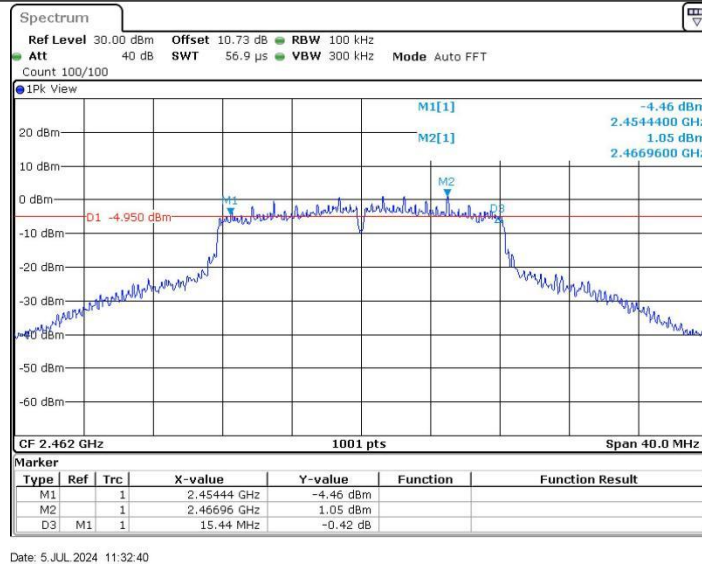


Date: 5 JUL 2024 11:26:32

11G Ant2_2437



11G_Ant2_2462



11N20SISO_Ant2_2412

