

Prüfbericht-Nr.: Test report no.:	CN25TN8C 002	Auftrags-Nr.: Order no.:	168568654	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-08-06	
Auftraggeber: Client:	Dreame Trading (Tianjin) Co., Ltd. Room 2112-1-1, South District, Finance and Trade Center, No.6975 Yazhou Road, Dongjiang Bonded Port Area, Tianjin Pilot Free Trade Zone, 300463 Tianjin, P.R. China			
Prüfgegenstand: Test item:	Dreame NAVO Care SE 1 Incam			
Bezeichnung / Typ-Nr.: Identification / Type no.:	A121 (Trademark: DREAME)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2025-08-07	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A004057952			
Prüfzeitraum: Testing period:	2025-08-11 - 2025-09-12			
Ort der Prüfung: Place of testing:	Guangdong Dongdian Testing Service Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2025-09-30	Ausstellungsdatum: Issue date:		2025-09-30
Stellung / Position:	Project Manager	Stellung / Position:		Authorizer
Sonstiges / Other:	FCC ID: 2AXGD-A121 IC: 26444-A121, HVIN: A121 This report is for 2.4GHz Wi-Fi.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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Anmerkungen
Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 2.4GHz Wi-Fi

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

Guangdong Dongdian Testing Service Co.,Ltd.

Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan ,Guangdong, China,523808

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

IC Registration No.: 10288A and the CAB identifier is CN0048.

This project was subcontracted by TÜV Rheinland (Shenzhen) Co., Ltd. to Guangdong Dongdian Testing Service Co.,Ltd, and all tests items at the test sites have been conducted under the supervision of a TÜV engineer.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2026/07/06
Wideband Radio Communication Tester	R&S	CMW500	117491	2026/03/28
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2026/07/06
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2026/03/28
RF Control Unit	Tonscend	JS0806-2	20C8060230	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
☒ RF Radiated Spurious Emissions Test				
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2026/03/28
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/03/28
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2027/04/01
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/11
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
☒ Conducted Emissions Test				
EMI Test Receiver	R&S	ESCI 3	DDT-ZC01972	2026/03/28
Two Line V-Network	R&S	ENV216	DDT-ZC00586	2026/07/06

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Pulse Limiter	R&S	KH43101	DDT-ZC00747	2026/03/28
Coaxial signal signal cable	H&S	RG214-5	DDT-ZC01817	2026/03/28
Conected Radiated Software	Audix	E3	DDT-ZC00562	/
Two Line V-Network	R&S	ENV216	DDT-ZC02058	2026/07/06

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	±4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Guangdong Dongdian Testing Service Co.,Ltd. Test facility located at Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan ,Guangdong, China,523808 is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is a video camera, which supports Bluetooth LE and 2.4GHz / 5GHz Wi-Fi (802.11 a/b/g/n) functions.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Dreame NAVO Care SE 1 Incam
Type Designation:	A121
Trademark:	DREAME
FCC ID:	2AXGD-A121
IC:	26444-A121
HVIN:	A121
Operating Voltage:	USB operated (5Vdc, 1A)
Test Voltage	AC 120V, 60Hz
Operating Temperature Range:	-20 °C ~ +50 °C
Technical Specification of Bluetooth Low Energy	
Operating Frequency	2402 - 2480 MHz
Type of Modulation	GFSK
Channel Number	40 channels
Channel Separation	2MHz
Data Rate	1Mbps
Antenna Type	FPC Antenna
Antenna Number	1Tx1Rx
Antenna Gain	1.46 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM/)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 Mbps for 802.11n(HT20) MCS0 ~ MCS7 Mbps for 802.11n(HT40)
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11b/g/n(HT40)
Channel Separation:	5 MHz
Antenna Type:	FPC Antenna
Antenna Number:	1x1 TRX
Antenna Gain:	1.46 dBi (Provided by the Client)
Technical Specification of 5GHz Wi-Fi	
Operating Frequency:	5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz

Channel Number:	5180-5240MHz, 8CHs, 802.11 a/n20/n40 5260-5320MHz, 8CHs, 802.11 a/n20/n40 5500-5720MHz, 12CHs, 802.11 a/n20/n40 5745-5825MHz, 7CHs, 802.11 a/n20/n40 Note: 5600-5650MHz band is not used in Canada.
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM/)
Data Rate:	6/9/12/18/24/36/48/54 Mbps for 802.11a MCS0~MCS7 for 802.11n
Channel Separation:	20MHz / 40MHz
DFS	Client Without Radar Detection
Antenna Type:	FPC Antenna
Antenna Number:	1x1 TRX
Antenna Gain:	2.04 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of 2.4GHz Wi-Fi

RF Channel	802.11 b/g/n(HT20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	/
11	2462	/

Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)

Test frequencies are lowest channel: 2422 MHz, middle channel: 2437 MHz and highest channel: 2452 MHz for 802.11n(HT40)

3.3 Independent Operation Modes

The basic operation modes are:

A. On, 2.4GHz Wi-Fi wireless transmitting mode

- 1) Low Channel
- 2) Middle Channel
- 3) High Channel

B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024.

According to clause 3.1, all tests were performed on model A121 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
AC/DC Adapter	HUAWEI	HW-100400C01 JB91L6L7S04031	Input: 100-240V~ 50/60Hz, Output: 5V/2A or 9V/2A or 10V/4A MAX
AC Adapter	HUAWEI	HW-050450C00	Input: 100-240V~ 50/60Hz, Output: 5V/2A or 4.5V/5A or 5V/4.5A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

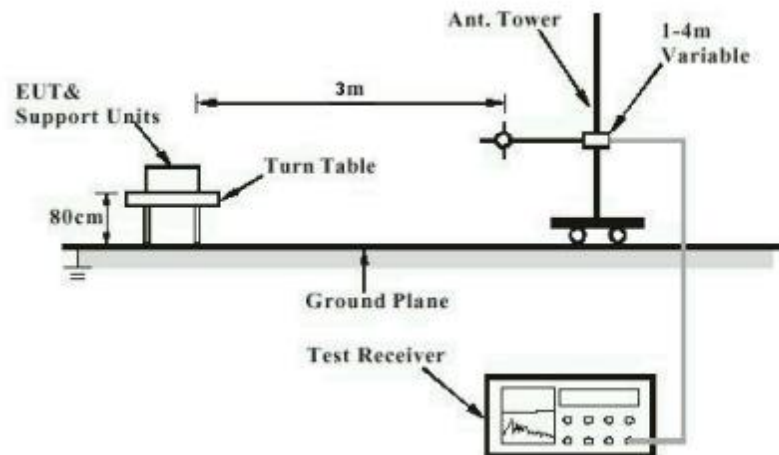


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

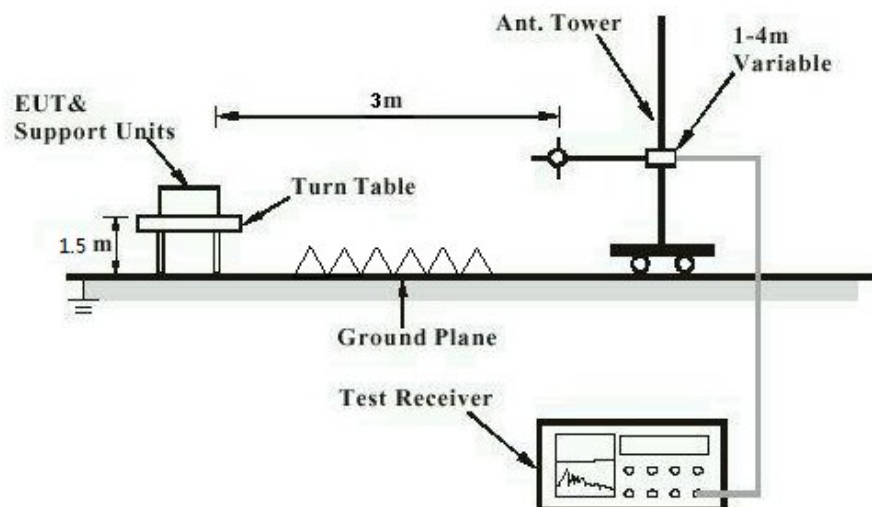


Diagram of Measurement Configuration for Conducted Transmitter Measurement

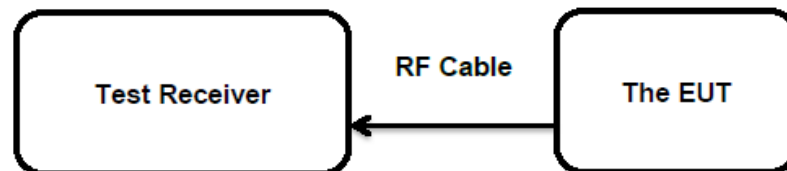
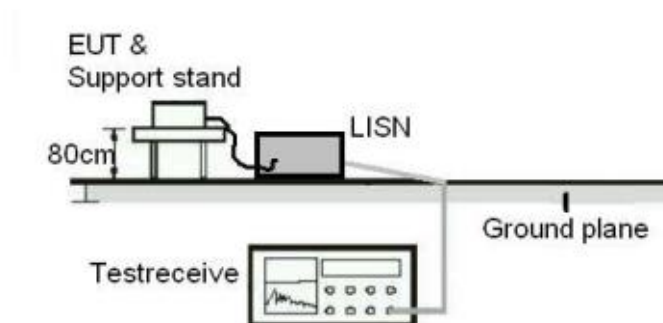


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has one FPC antenna, the directional gain of antennas is 1.46 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Conducted Output Power

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(b)(3)
RSS-247 Clause 5.4(d)

Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

Limits : < 1.0 W (30 dBm)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-11 to 2025-09-12

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 26.2 °C

Relative humidity : 46.1 %

Atmospheric pressure : 101 kPa

For details refer to the following test result.

For the measurement records of Duty Cycle, refer to the appendix A.

Table 6: Test Result of Maximum Conducted Output Power

Test Mode	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
802.11b	2412	14.04	98.35	0.07	14.11	≤30.00	15.57	≤36.00	PASS
	2437	14.41	98.47	0.07	14.48	≤30.00	15.94	≤36.00	PASS
	2462	14.91	98.35	0.07	14.98	≤30.00	16.44	≤36.00	PASS
802.11g	2412	14.40	97.18	0.12	14.52	≤30.00	15.98	≤36.00	PASS
	2437	15.00	97.18	0.12	15.12	≤30.00	16.58	≤36.00	PASS
	2462	15.49	97.16	0.13	15.62	≤30.00	17.08	≤36.00	PASS
802.11n (HT20)	2412	14.32	96.99	0.13	14.45	≤30.00	15.91	≤36.00	PASS
	2437	14.88	96.99	0.13	15.01	≤30.00	16.47	≤36.00	PASS
	2462	15.56	96.99	0.13	15.69	≤30.00	17.15	≤36.00	PASS
802.11n (HT40)	2422	12.80	92.75	0.33	13.13	≤30.00	14.59	≤36.00	PASS
	2437	13.15	94.12	0.26	13.41	≤30.00	14.87	≤36.00	PASS
	2452	13.51	94.12	0.26	13.77	≤30.00	15.23	≤36.00	PASS

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 17.15 dBm less than 4W (36 dBm).

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 1.46 dBi

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5.1.3 Conducted Power Spectral Density

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(e)
RSS-247 Clause 5.2(b)
Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits : < 8 dBm / 3kHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-11 to 2025-09-12
Input voltage : AC 120V, 60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 26.2 °C
Relative humidity : 46.1 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Table 7: Test Result of Conducted Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Conducted Power Spectral Density	Limit
		(dBm / 3kHz)	
802.11b	2412	-13.68	8 dBm / 3kHz
	2437	-14.51	
	2462	-13.80	
802.11g	2412	-14.31	
	2437	-15.15	
	2462	-14.79	
802.11n (HT20)	2412	-13.07	
	2437	-13.21	
	2462	-14.12	
802.11n (HT40)	2422	-25.67	
	2437	-25.27	
	2452	-24.99	

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(2)
 RSS-247 Clause 5.2(a)
 Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
 Limits : > 500 kHz
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-11 to 2025-09-12
 Input voltage : AC 120V, 60Hz
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 26.2 °C
 Relative humidity : 46.1 %
 Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Table 8: Test Result of 6dB Bandwidth

Test Mode	Test Channel (MHz)	Measured 6dB Bandwidth	Limit
		(MHz)	
802.11b	2412	10.04	>500kHz
	2437	10.04	
	2462	9.52	
802.11g	2412	15.80	
	2437	15.48	
	2462	16.08	
802.11n (HT20)	2412	16.08	
	2437	15.72	
	2462	15.48	
802.11n (HT40)	2422	35.28	
	2437	35.28	
	2452	35.12	

5.1.5 99% Bandwidth

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(a)
RSS-Gen Clause 6.7

Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

Limits : Within assigned band 2400-2483.5MHz

Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-08-11 to 2025-09-12

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 26.2 °C

Relative humidity : 46.1 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Table 9: Test Result of 99% Bandwidth

Test Mode	Test Channel (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
802.11b	2412	14.386	/
	2437	14.386	
	2462	14.386	
802.11g	2412	16.783	
	2437	16.783	
	2462	16.783	
802.11n (HT20)	2412	17.622	
	2437	17.542	
	2462	17.582	
802.11n (HT40)	2422	35.964	
	2437	35.884	
	2452	35.884	

Prüfbericht - Nr.: **CN25TN8C 002**
Test Report No.:Seite 20 von 23
Page 20 of 23**5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-11 to 2025-09-12
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.2 °C
Relative humidity	: 46.1 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN25TN8C 002
Test Report No.:Seite 21 von 23
Page 21 of 23

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-247 Clause 3.3 & 5.5

Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024

Limits : Refer to 15.209(a) of FCC part 15.247(d)
RSS-Gen Section 8.9 & 8.10

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025-08-11 to 2025-09-12

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : Refer to test results

Relative humidity : Refer to test results

Atmospheric pressure : 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN25TN8C 002
*Test Report No.:*Seite 22 von 23
Page 22 of 23

5.1.8 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-08-11 to 2025-09-12
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 22.3 °C
Relative humidity	: 51.5 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A: Test Results of 2.4GHz Wi-Fi

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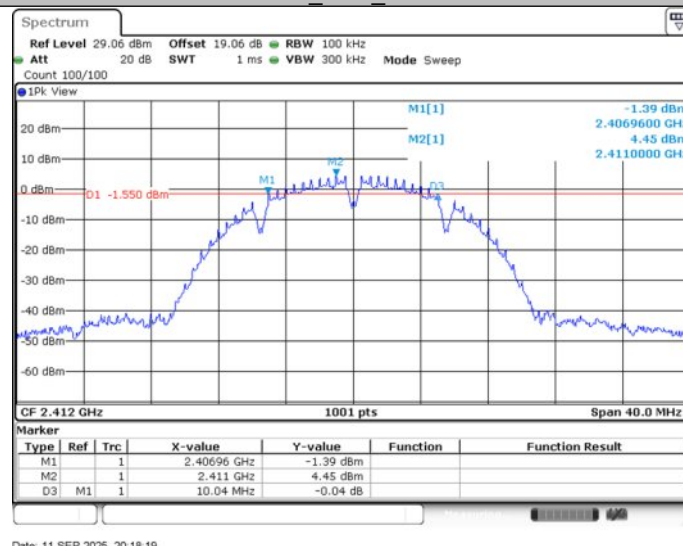
Appendix A.1: Test Results of 6dB Bandwidth

Test Result

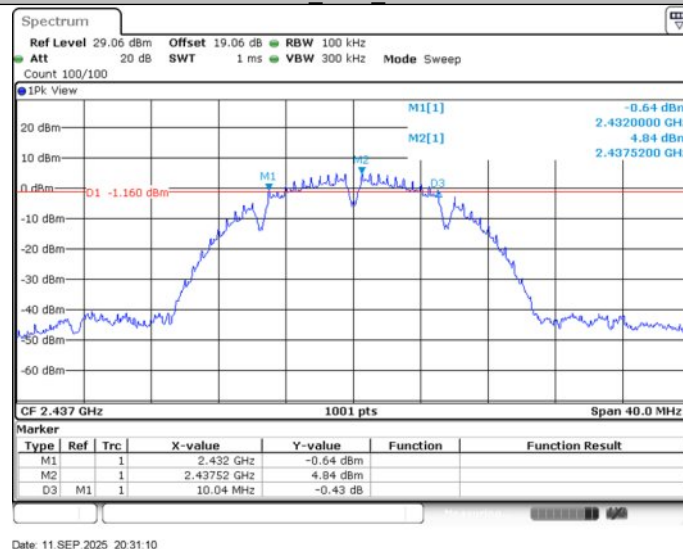
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.04	2406.96	2417.00	0.5	PASS
		2437	10.04	2432.00	2442.04	0.5	PASS
		2462	9.52	2457.48	2467.00	0.5	PASS
11G	Ant1	2412	15.80	2404.20	2420.00	0.5	PASS
		2437	15.48	2429.44	2444.92	0.5	PASS
		2462	16.08	2454.08	2470.16	0.5	PASS
11N20SISO	Ant1	2412	16.08	2404.08	2420.16	0.5	PASS
		2437	15.72	2429.44	2445.16	0.5	PASS
		2462	15.48	2454.12	2469.60	0.5	PASS
11N40SISO	Ant1	2422	35.28	2404.48	2439.76	0.5	PASS
		2437	35.28	2419.48	2454.76	0.5	PASS
		2452	35.12	2434.48	2469.60	0.5	PASS

Test Graphs

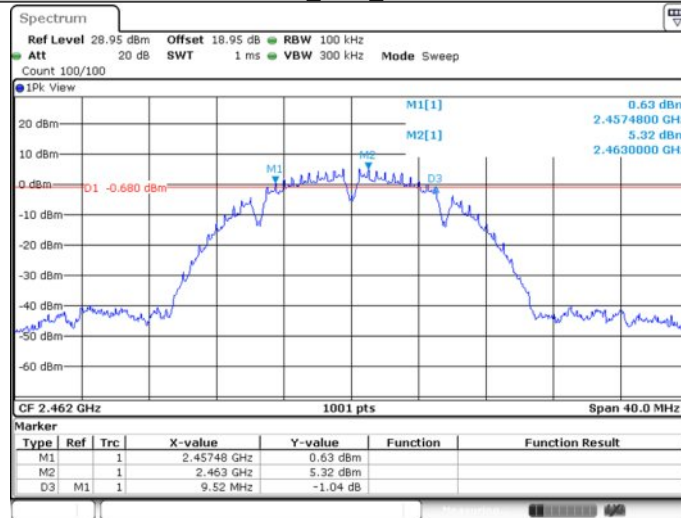
11B_Ant1_2412



11B_Ant1_2437

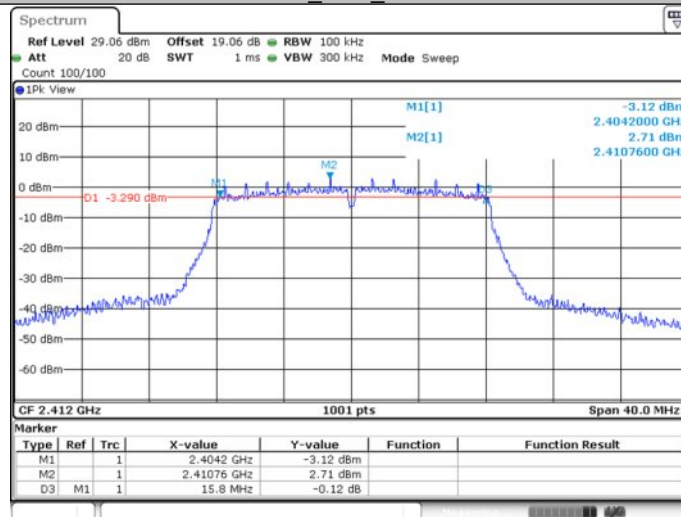


11B_Ant1_2462



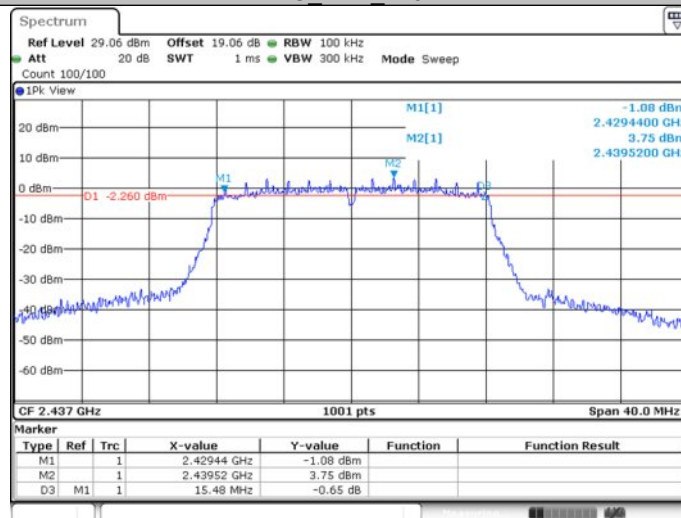
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11G_Ant1_2412



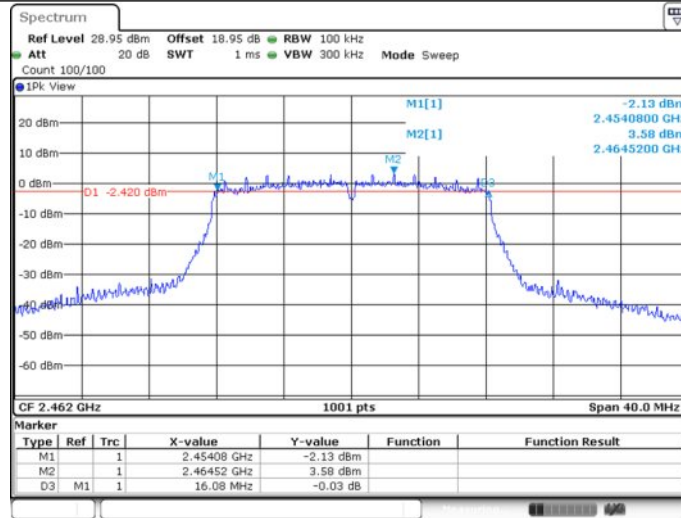
Date: 11.SEP.2025 20:57:50

11G_Ant1_2437



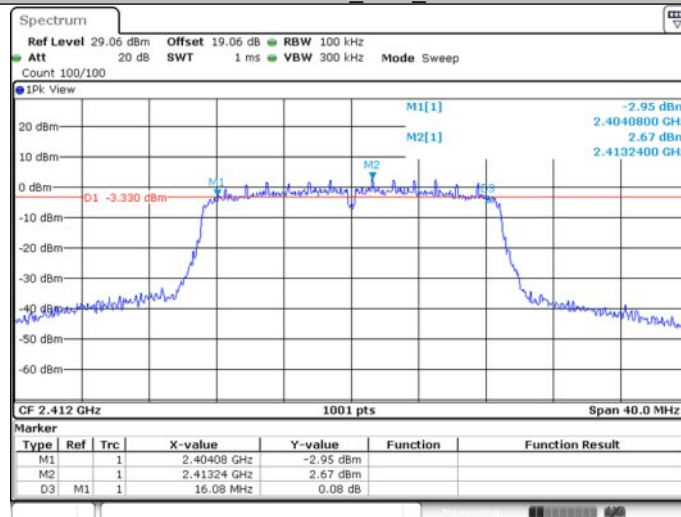
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11G_Ant1_2462



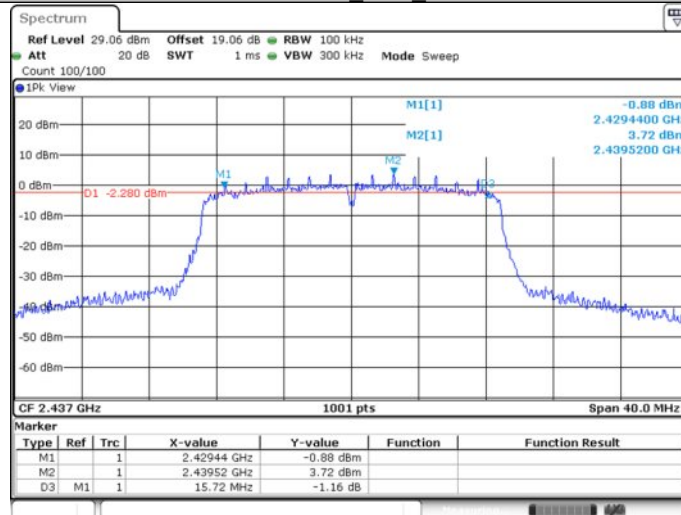
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11N20SISO_Ant1_2412



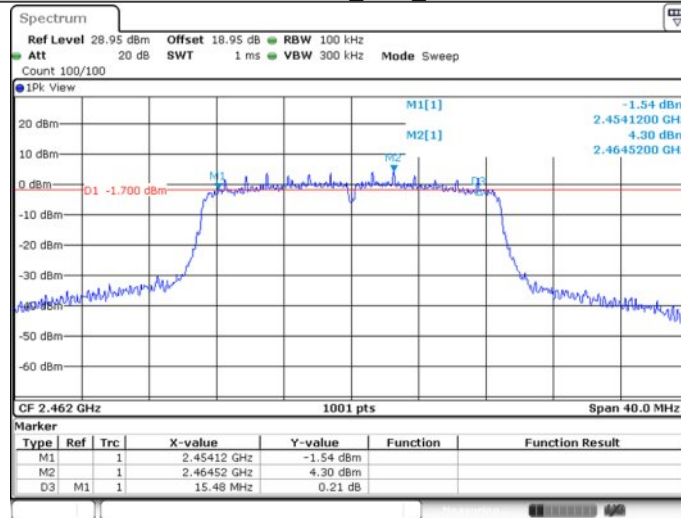
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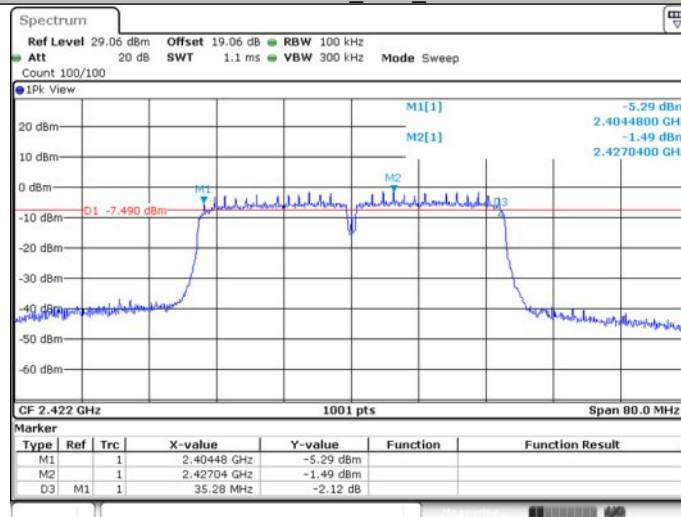
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11N20SISO_Ant1_2462



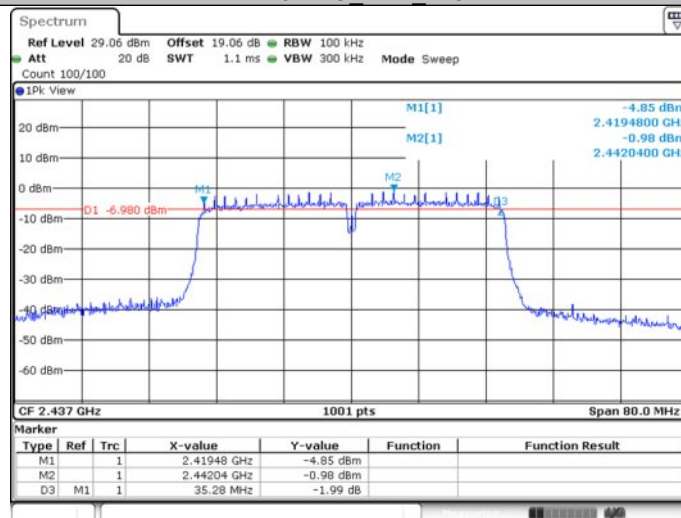
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11N40SISO_Ant1_2422



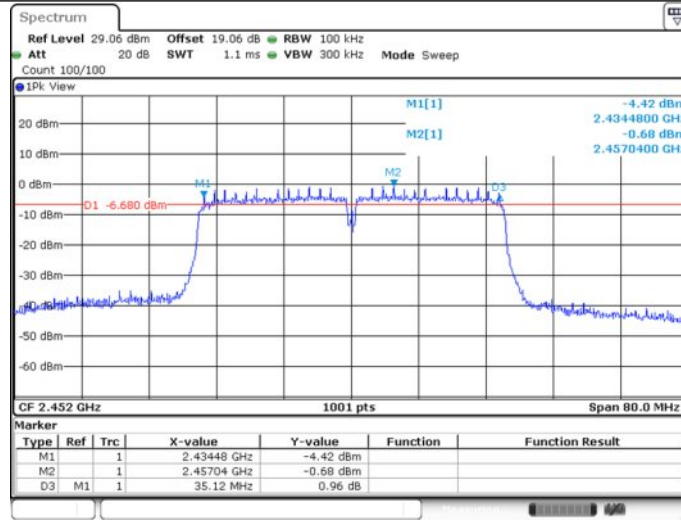
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11N40SISO_Ant1_2437



Date: 11.SEP.2025 21:45:49

11N40SISO_Ant1_2452



Date: 11.SEP.2025 21:51:22

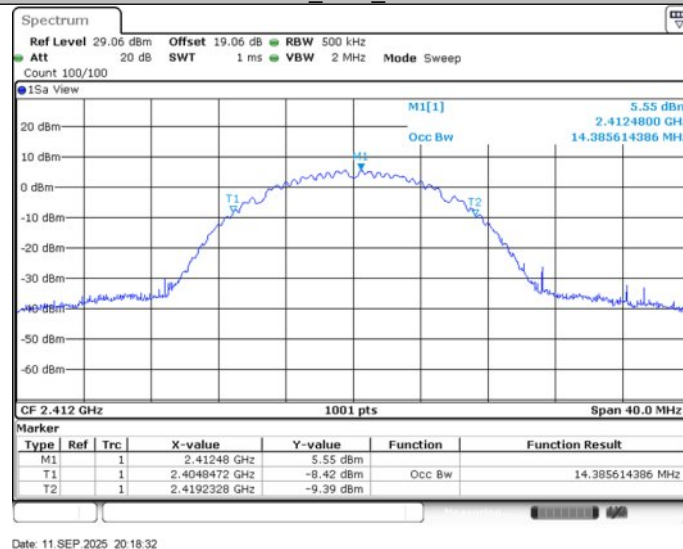
Appendix A.2: Test Results of 99% Bandwidth

Test Result

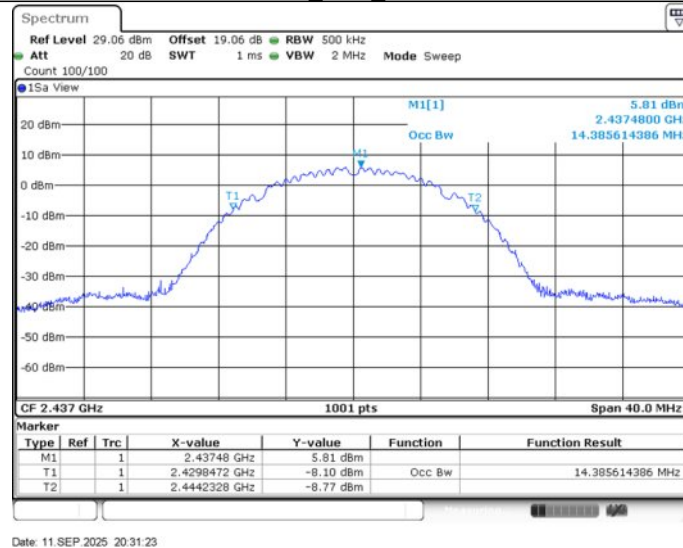
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.386	2404.8472	2419.2328	---	---
		2437	14.386	2429.8472	2444.2328	---	---
		2462	14.386	2454.8072	2469.1928	---	---
11G	Ant1	2412	16.783	2403.6484	2420.4316	---	---
		2437	16.783	2428.6484	2445.4316	---	---
		2462	16.783	2453.6084	2470.3916	---	---
11N20SISO	Ant1	2412	17.622	2403.2088	2420.8312	---	---
		2437	17.542	2428.2488	2445.7912	---	---
		2462	17.582	2453.2088	2470.7912	---	---
11N40SISO	Ant1	2422	35.964	2404.0979	2440.0619	---	---
		2437	35.884	2419.0979	2454.9820	---	---
		2452	35.884	2434.0979	2469.9820	---	---

Test Graphs

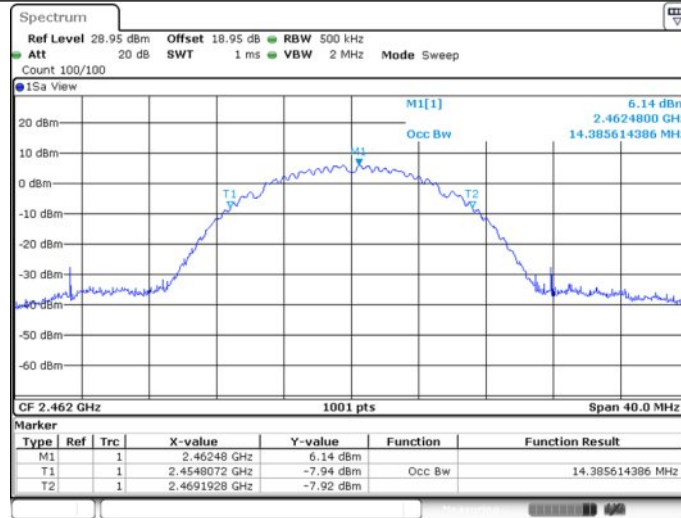
11B_Ant1_2412



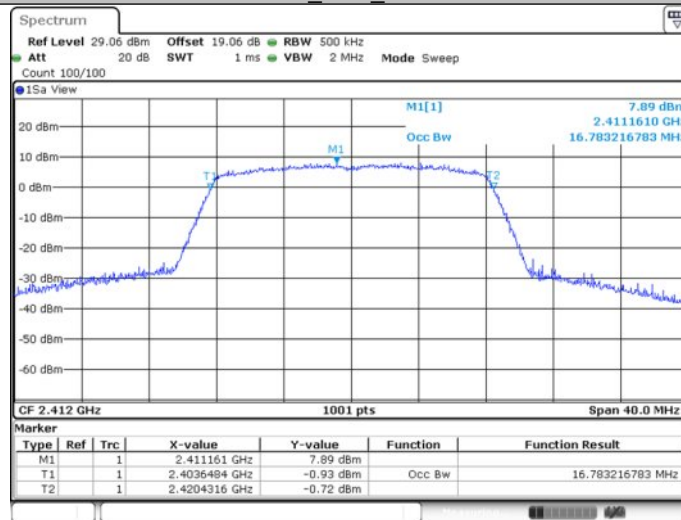
11B_Ant1_2437



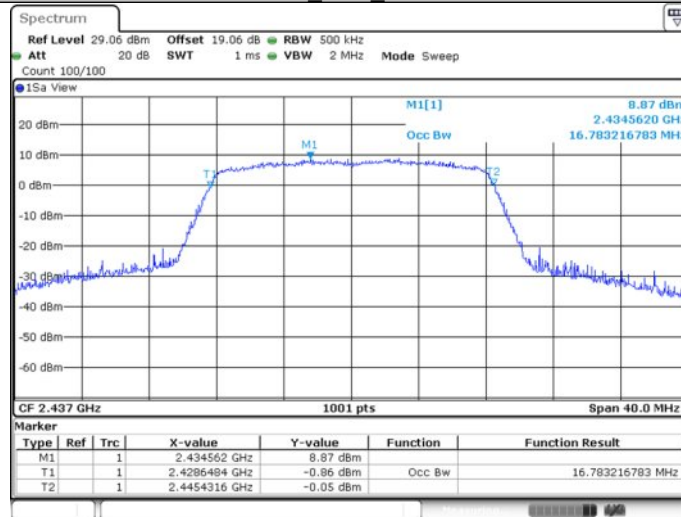
11B_Ant1_2462



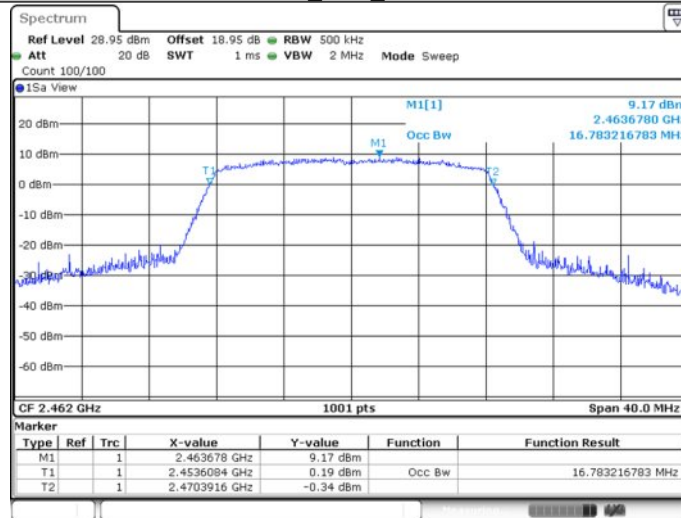
11G_Ant1_2412



11G_Ant1_2437

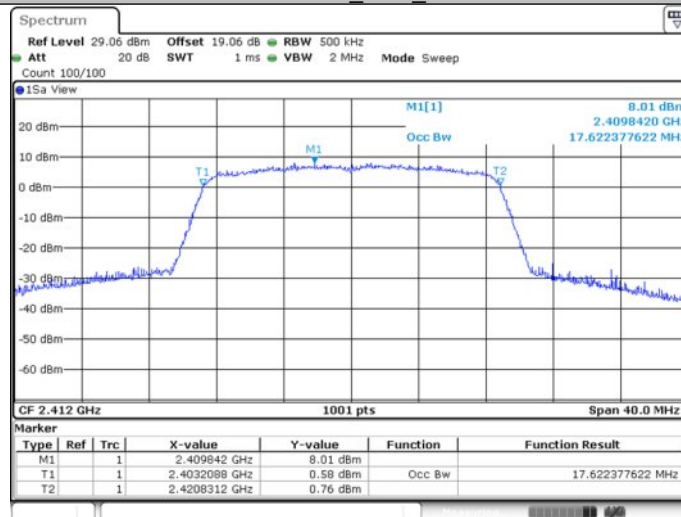


11G_Ant1_2462



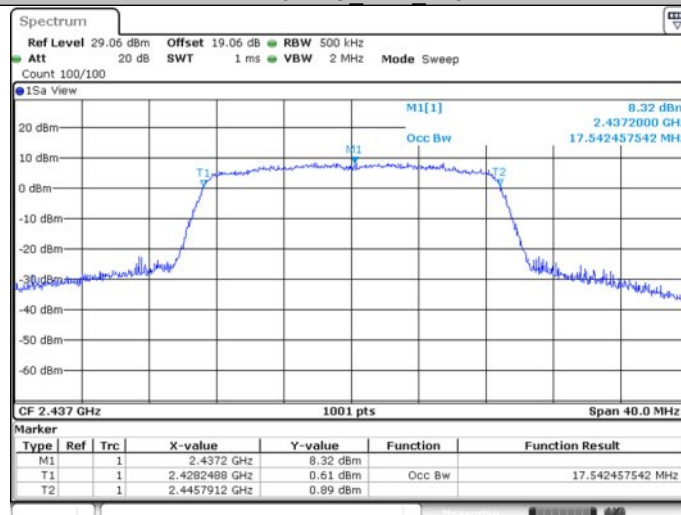
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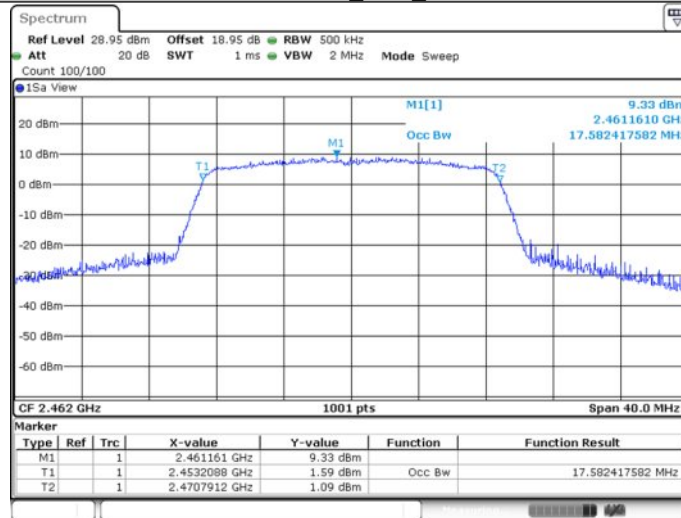
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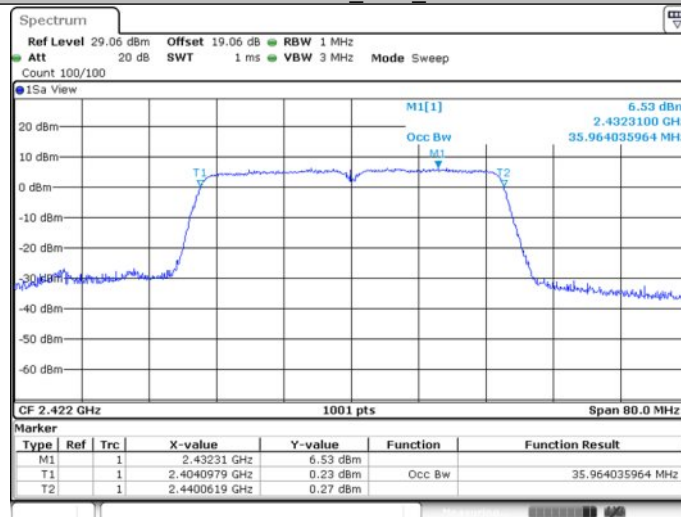
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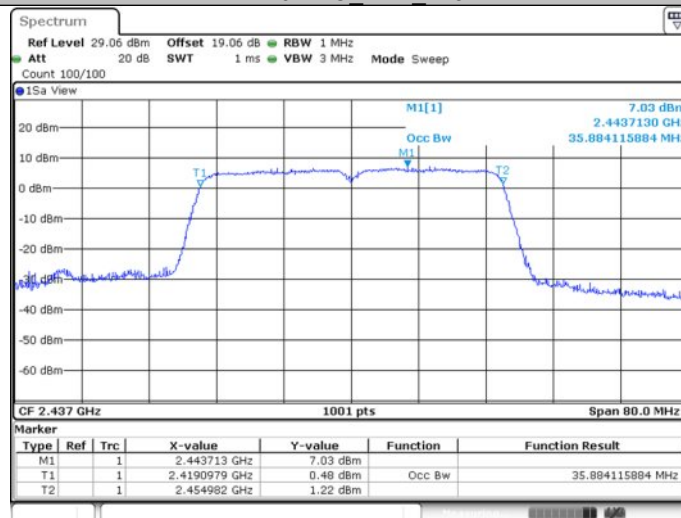
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11N40SISO_Ant1_2422



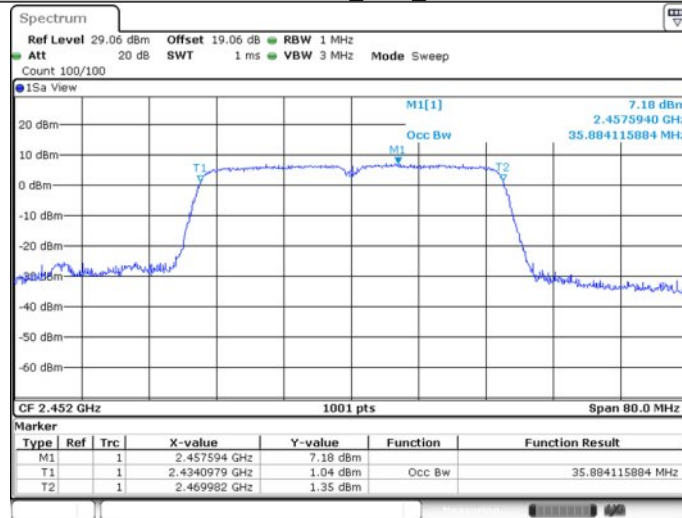
Date: 11.SEP.2025 21:30:30

11N40SISO_Ant1_2437



Date: 11.SEP.2025 21:46:02

11N40SISO_Ant1_2452



Date: 11.SEP.2025 21:51:35

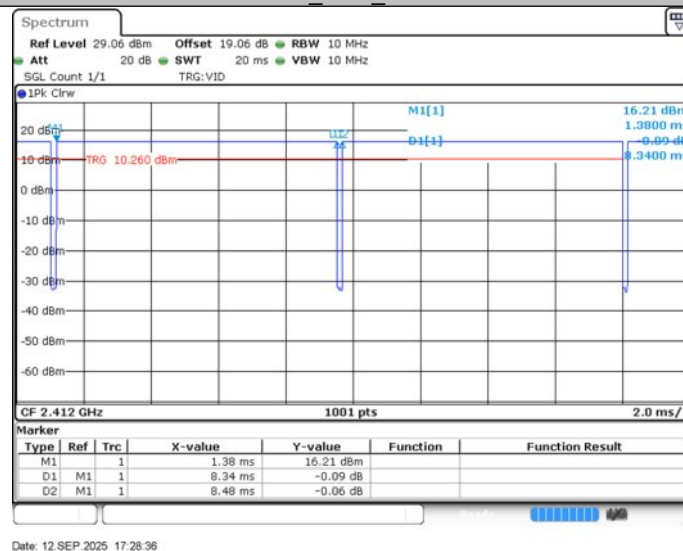
Appendix A.3: Test Results of Duty Cycle

Test Result

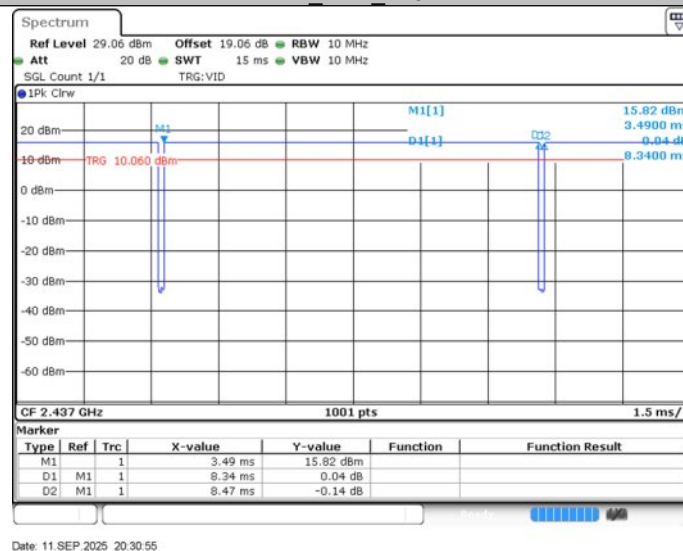
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.34	8.48	88.89
		2437	8.34	8.47	98.47
		2462	8.35	8.49	98.35
11G	Ant1	2412	1.38	1.42	97.18
		2437	1.38	1.42	97.18
		2462	1.37	1.41	97.16
11N20SISO	Ant1	2412	1.29	1.33	96.99
		2437	1.29	1.33	96.99
		2462	1.29	1.33	96.99
11N40SISO	Ant1	2422	0.64	0.69	92.75
		2437	0.64	0.68	94.12
		2452	0.64	0.68	94.12

Test Graphs

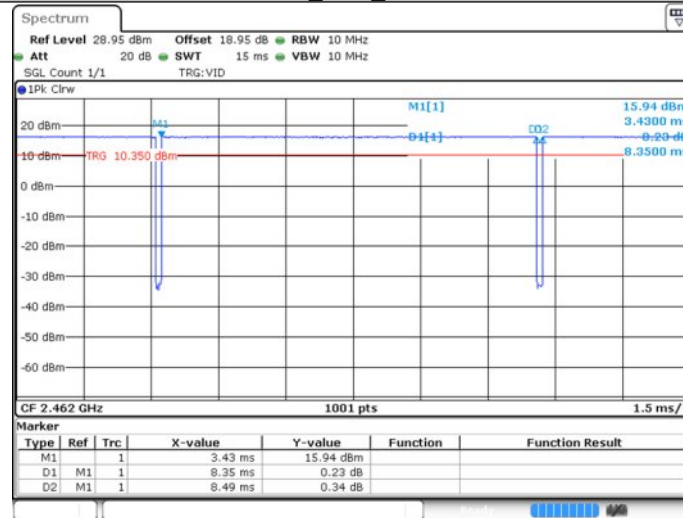
11B_Ant1_2412



11B_Ant1_2437

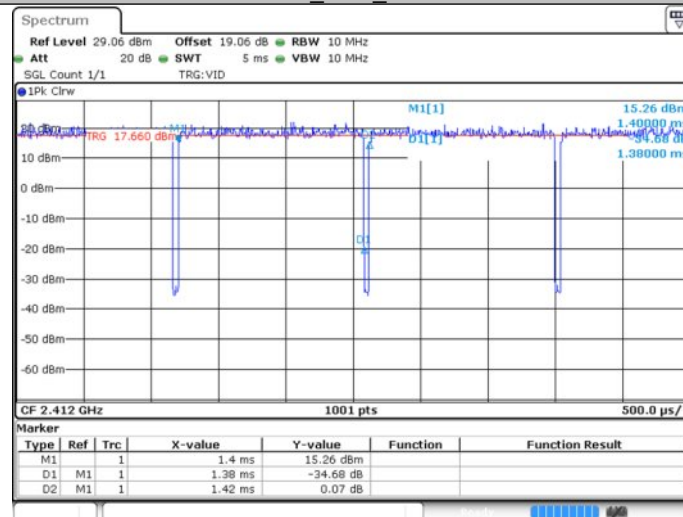


11B_Ant1_2462



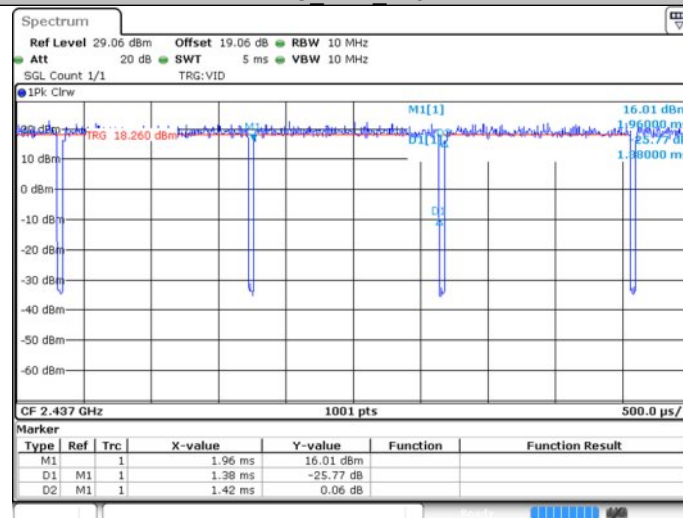
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11G_Ant1_2412



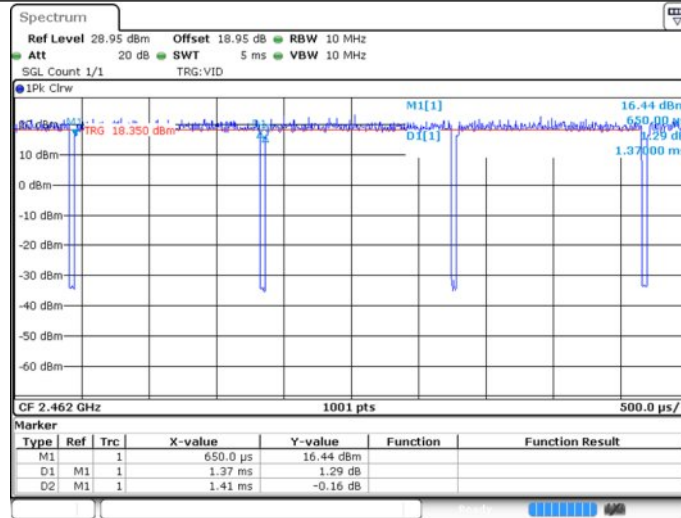
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11G_Ant1_2437



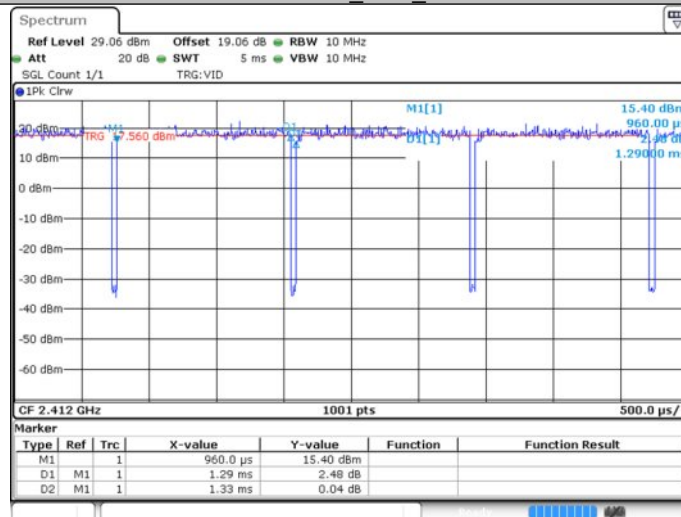
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11G_Ant1_2462



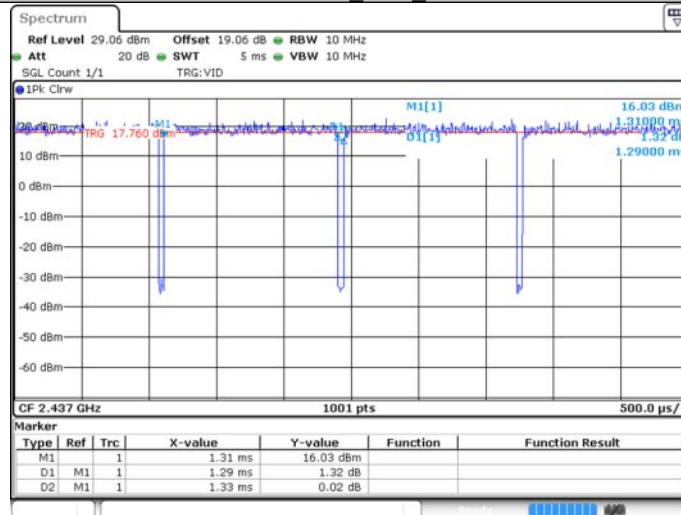
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11N20SISO_Ant1_2412



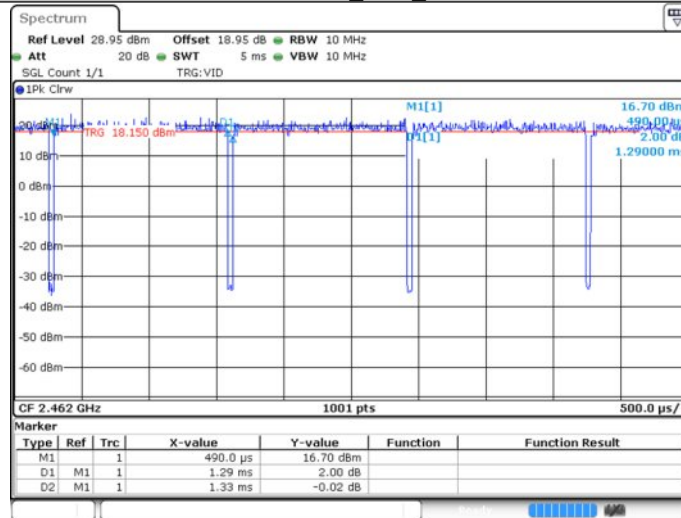
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11N20SISO_Ant1_2437



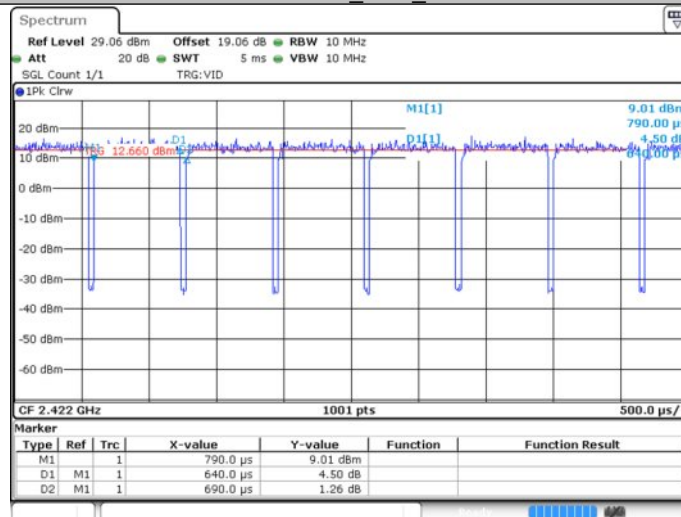
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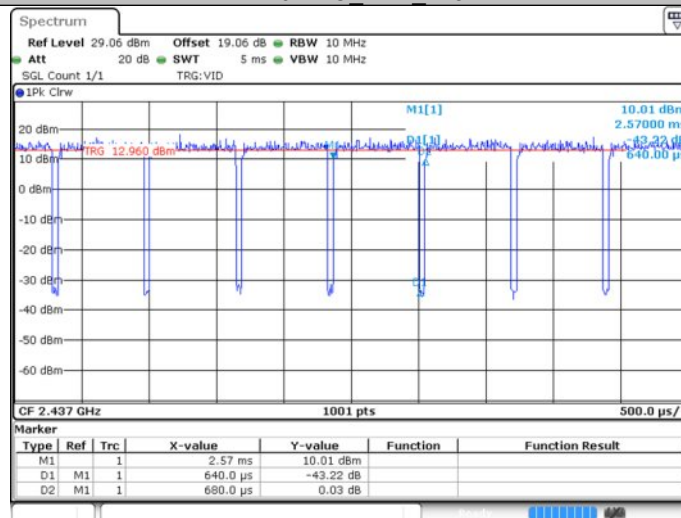
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11N40SISO_Ant1_2422



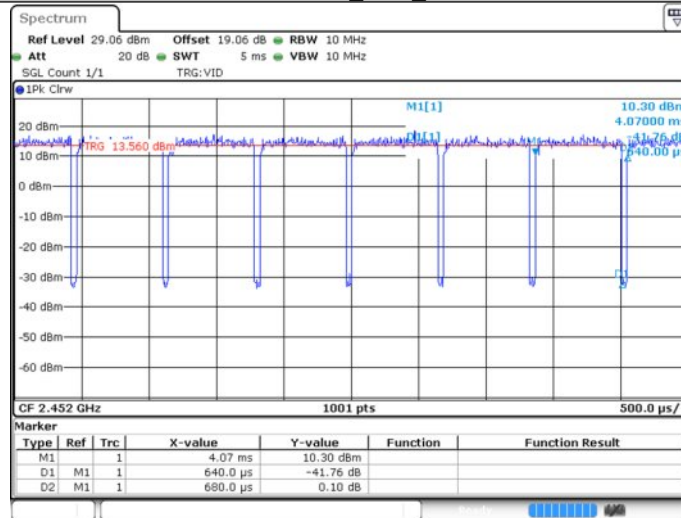
Date: 11.SEP.2025 21:30:02

11N40SISO_Ant1_2437



Date: 11.SEP.2025 21:45:34

11N40SISO_Ant1_2452



Date: 11.SEP.2025 21:51:07

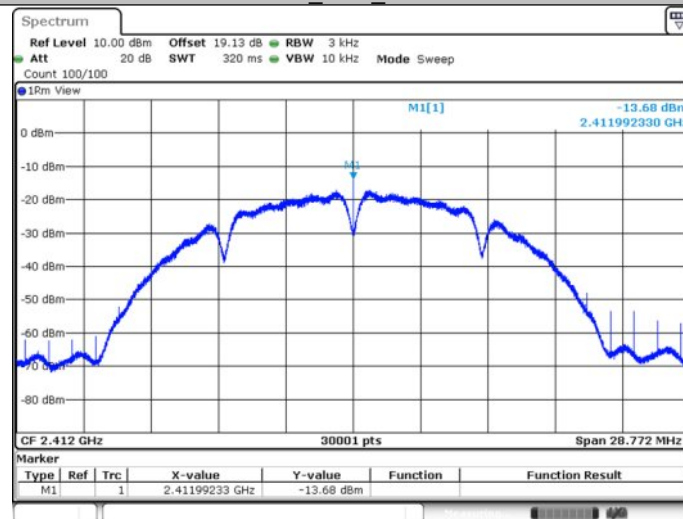
Appendix A.4: Test Results of Conducted Power Spectral Density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.68	≤8.00	PASS
		2437	-14.51	≤8.00	PASS
		2462	-13.80	≤8.00	PASS
11G	Ant1	2412	-14.31	≤8.00	PASS
		2437	-15.15	≤8.00	PASS
		2462	-14.79	≤8.00	PASS
11N20SISO	Ant1	2412	-13.07	≤8.00	PASS
		2437	-13.21	≤8.00	PASS
		2462	-14.12	≤8.00	PASS
11N40SISO	Ant1	2422	-25.67	≤8.00	PASS
		2437	-25.27	≤8.00	PASS
		2452	-24.99	≤8.00	PASS

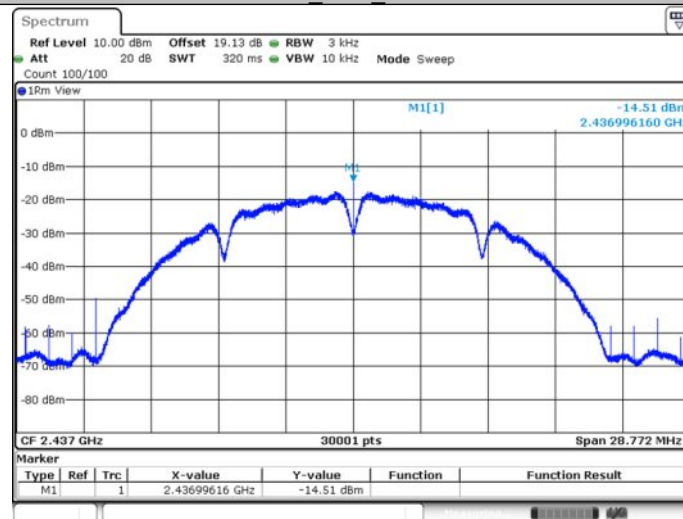
Test Graphs

11B_Ant1_2412



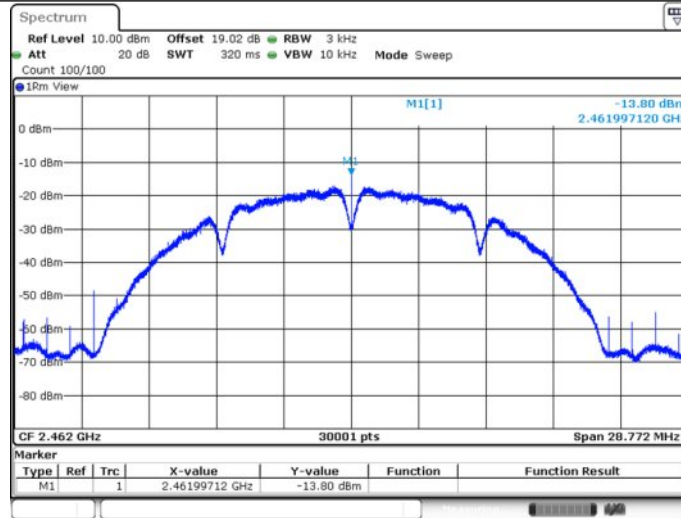
Date: 12 SEP 2025 17:29:50

11B_Ant1_2437



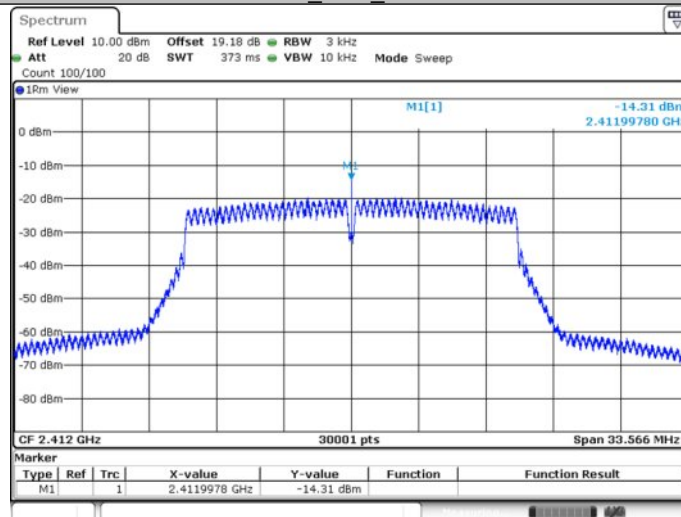
Date: 11 SEP 2025 20:32:39

11B_Ant1_2462



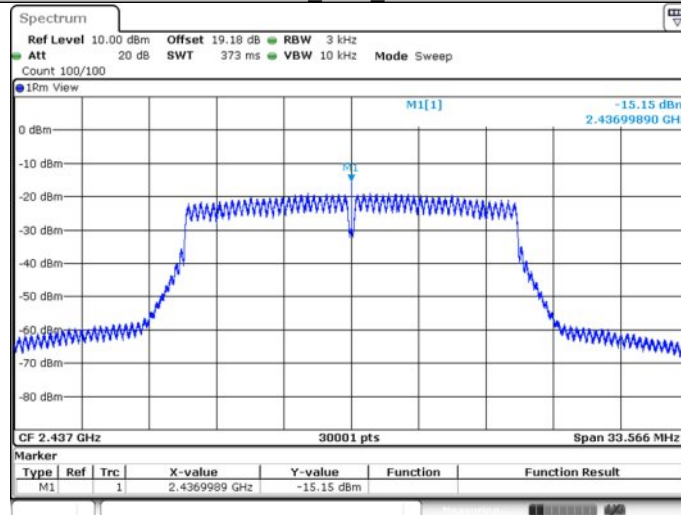
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11G_Ant1_2412



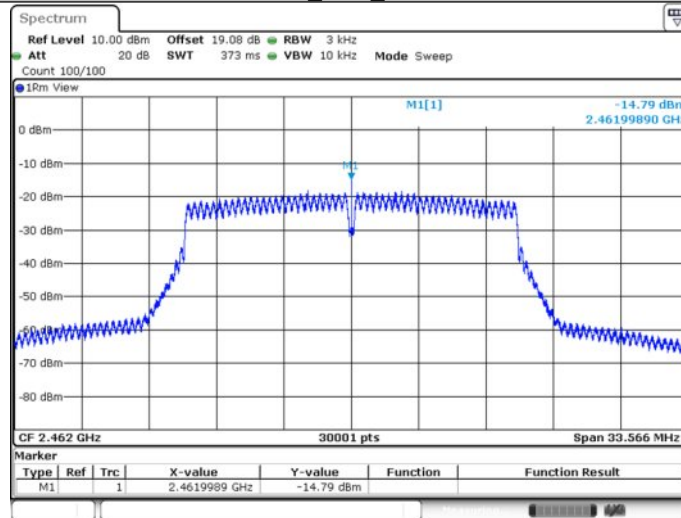
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11G_Ant1_2437



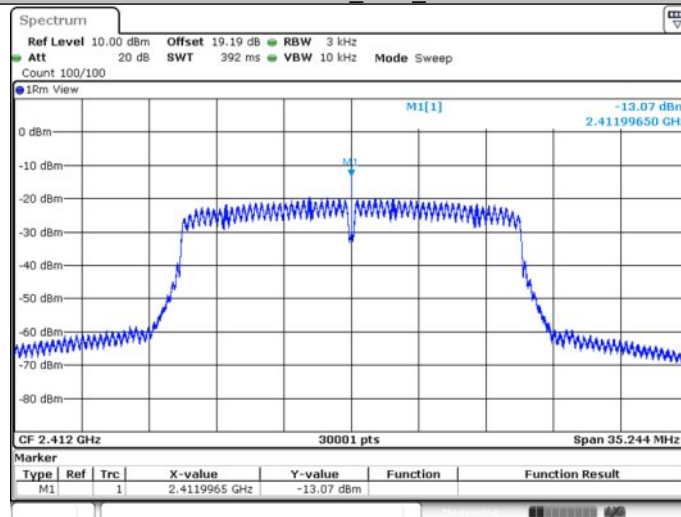
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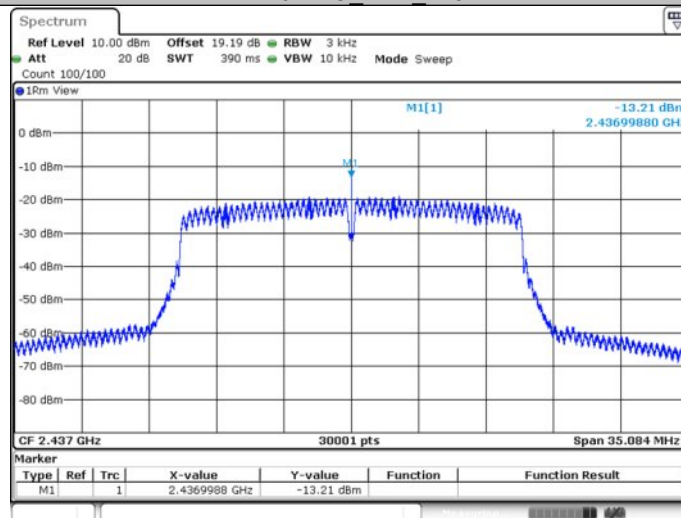
Date: 11.SEP.2025 21:08:31

11N20SISO_Ant1_2412



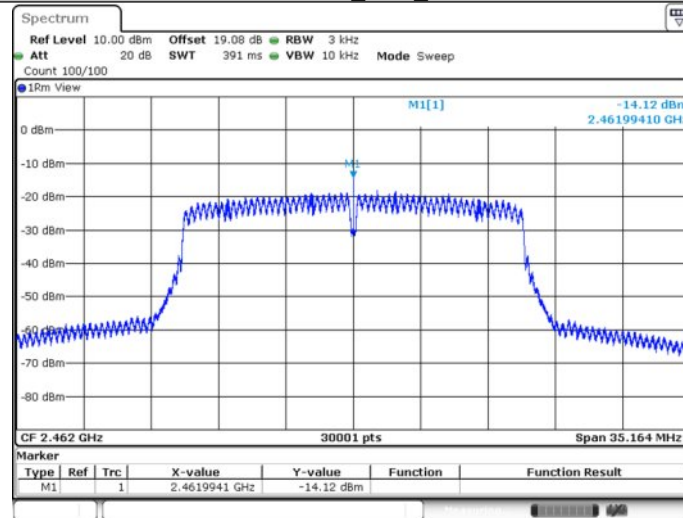
Date: 11.SEP.2025 21:11:58

11N20SISO_Ant1_2437



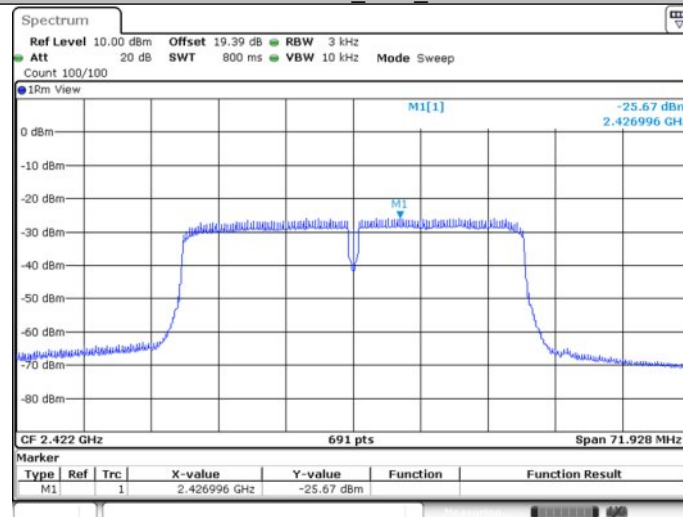
Date: 11.SEP.2025 21:18:30

11N20SISO_Ant1_2462



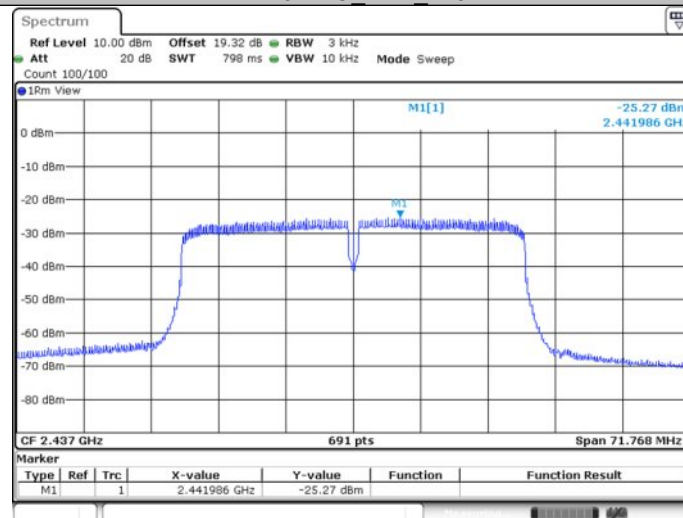
Date: 11.SEP.2025 21:27:37

11N40SISO_Ant1_2422



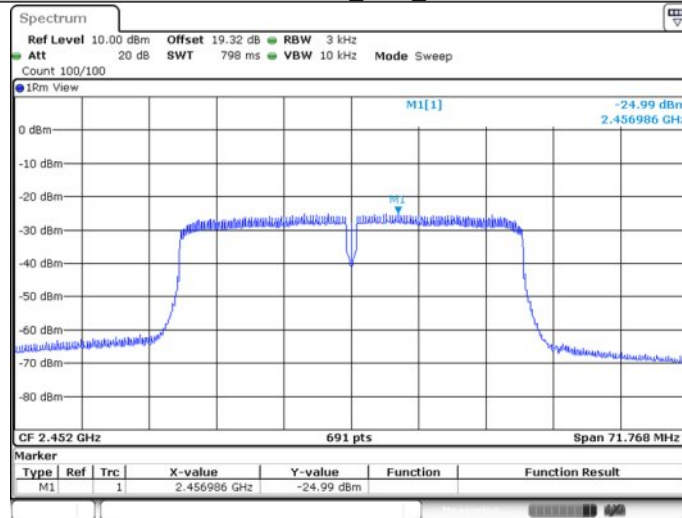
Date: 11.SEP.2025 21:32:47

11N40SISO_Ant1_2437



Date: 11.SEP.2025 21:48:19

11N40SISO_Ant1_2452



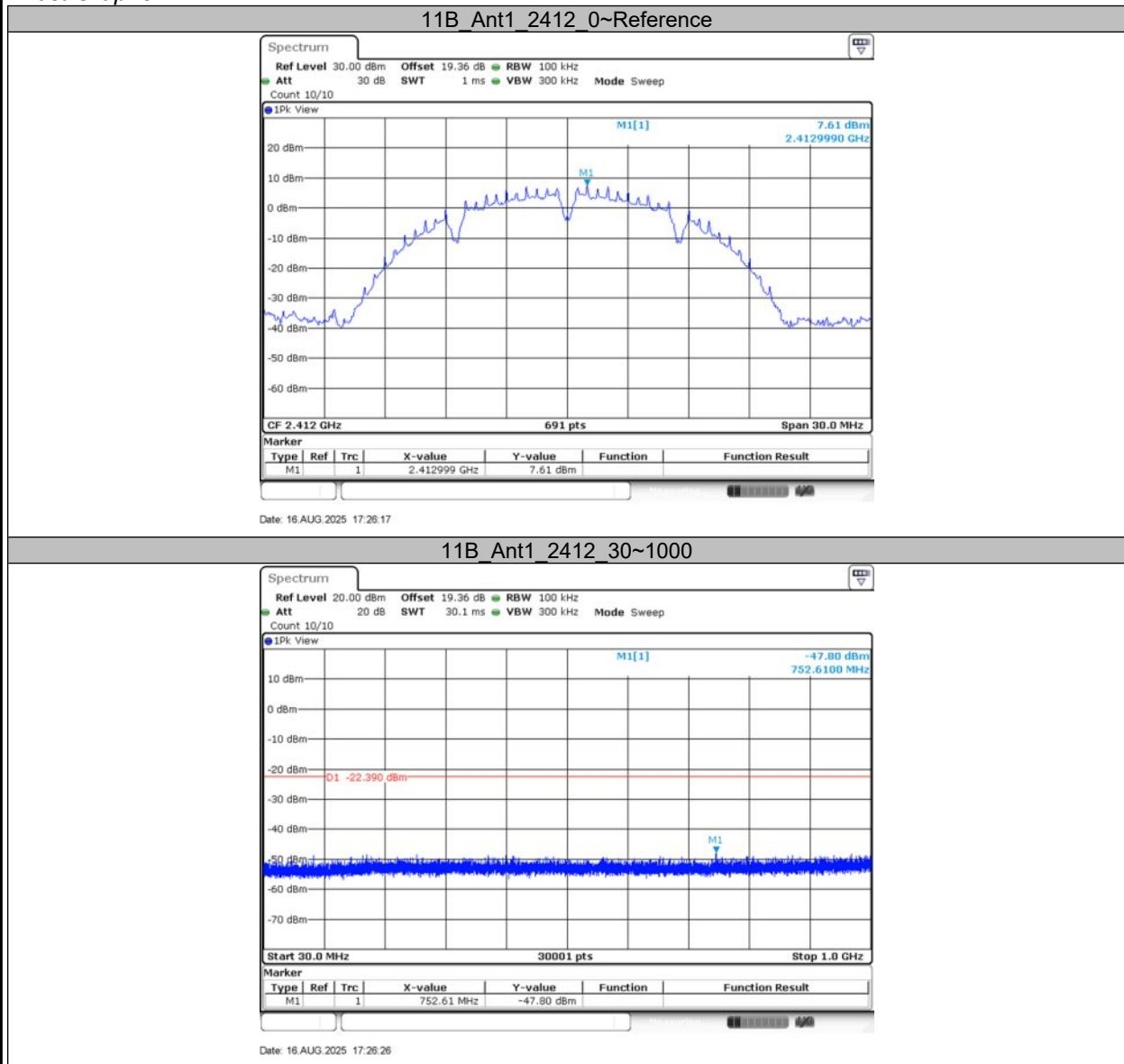
Date: 11.SEP.2025 21:53:53

Appendix A.5: Test Results of Conducted Spurious Emissions

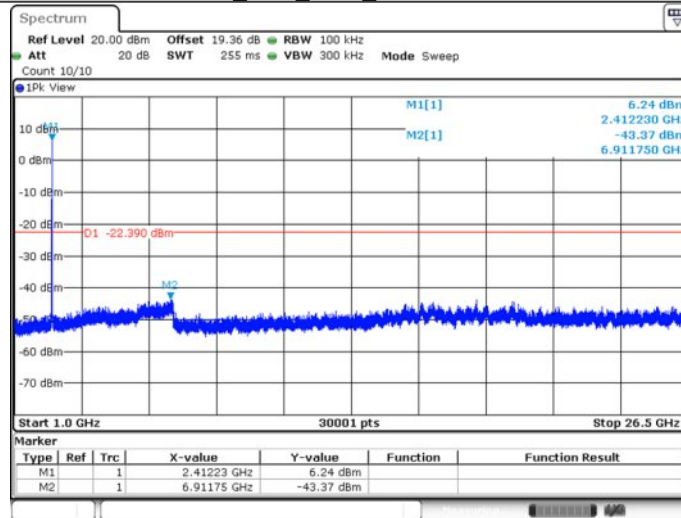
Test Result

EUT Set Mode	CH or Frequency	Result(dBm)	EUT Set Mode	CH or Frequency	Result (dBm)
11b	CH1	Pass	11g	CH1	Pass
	CH11	Pass		CH11	Pass
11n HT 20	CH1	Pass	11n HT 40	CH3	Pass
	CH11	Pass		CH9	Pass

Test Graphs

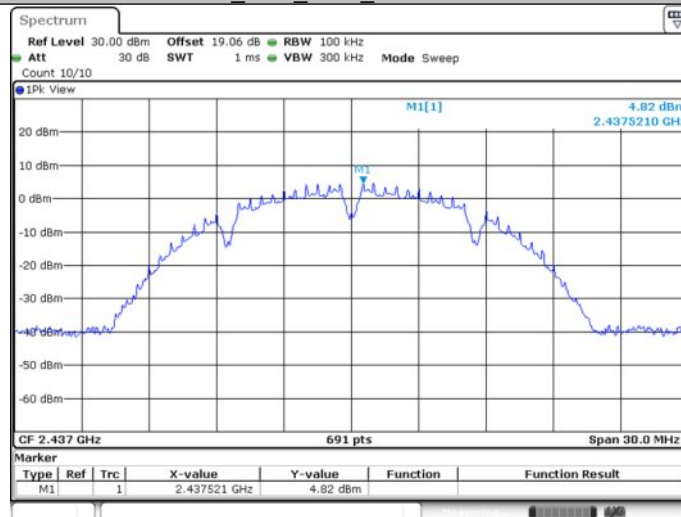


11B_Ant1_2412_1000~26500



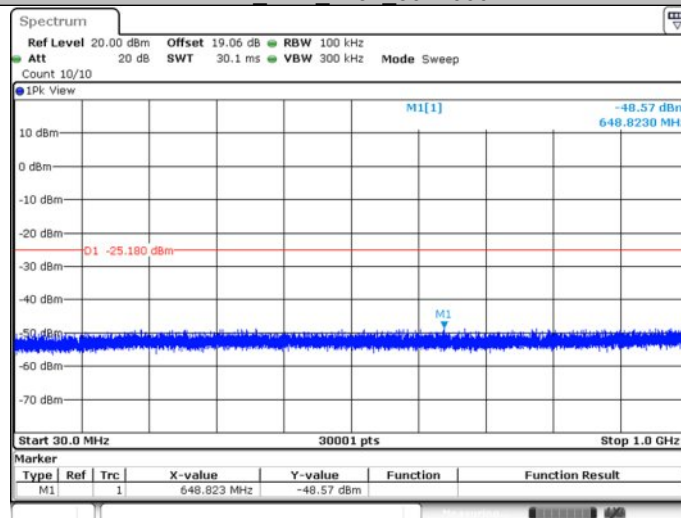
Date: 16.AUG.2025 17:26:48

11B_Ant1_2437_0~Reference



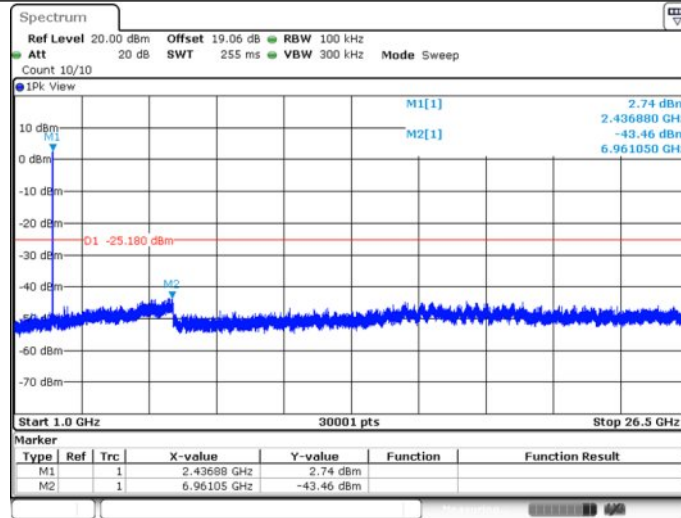
Date: 11.SEP.2025 20:32:47

11B_Ant1_2437_30~1000



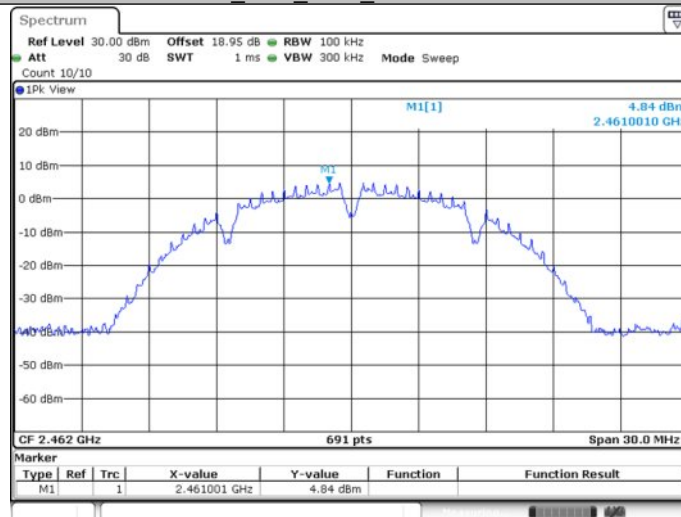
Date: 11.SEP.2025 20:32:55

11B_Ant1_2437_1000~26500



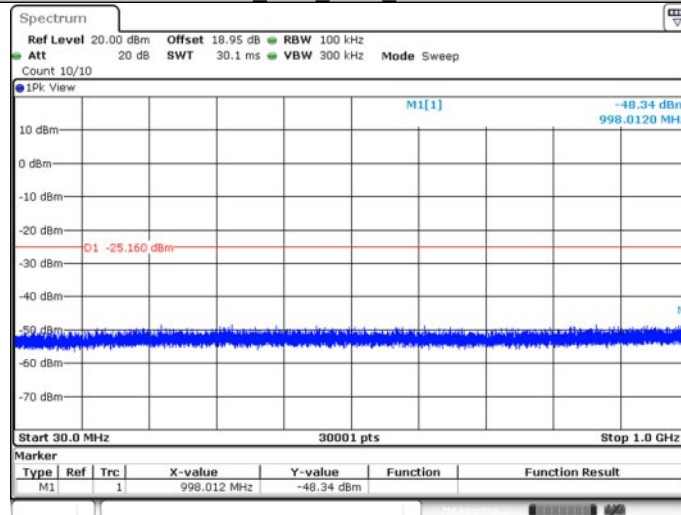
Date: 11.SEP.2025 20:33:18

11B_Ant1_2462_0~Reference



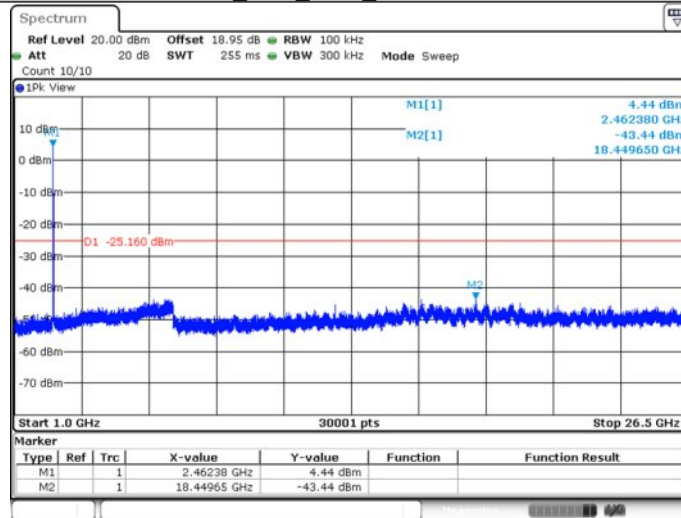
Date: 11.SEP.2025 20:37:04

11B_Ant1_2462_30~1000



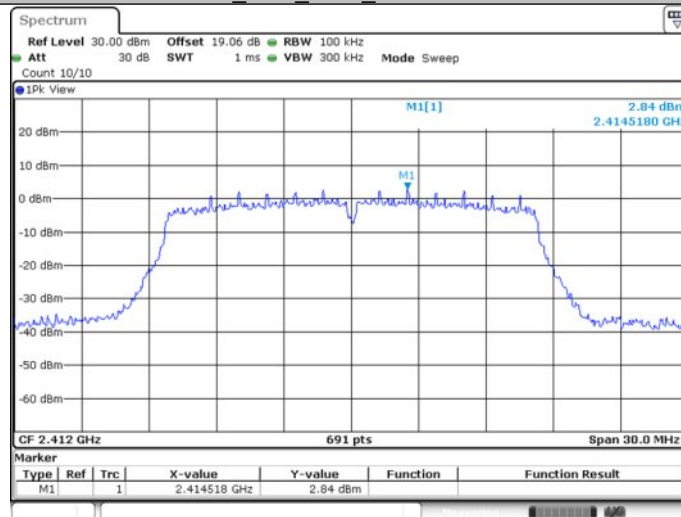
Date: 11.SEP.2025 20:37:13

11B Ant1_2462_1000~26500



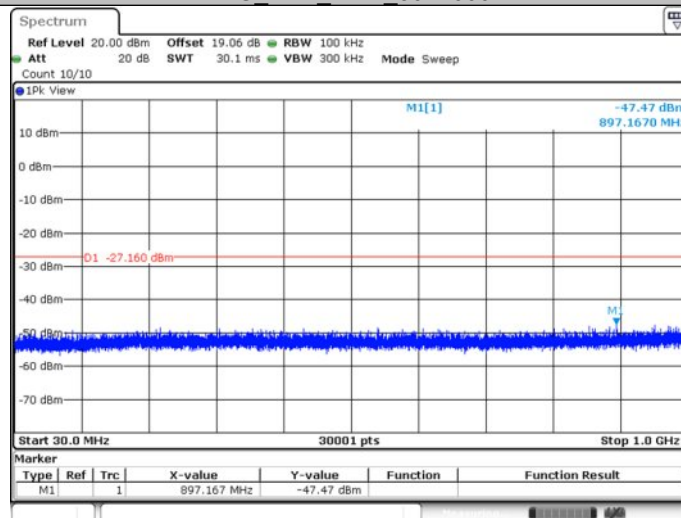
Date: 11.SEP.2025 20:37:35

11G Ant1_2412_0~Reference



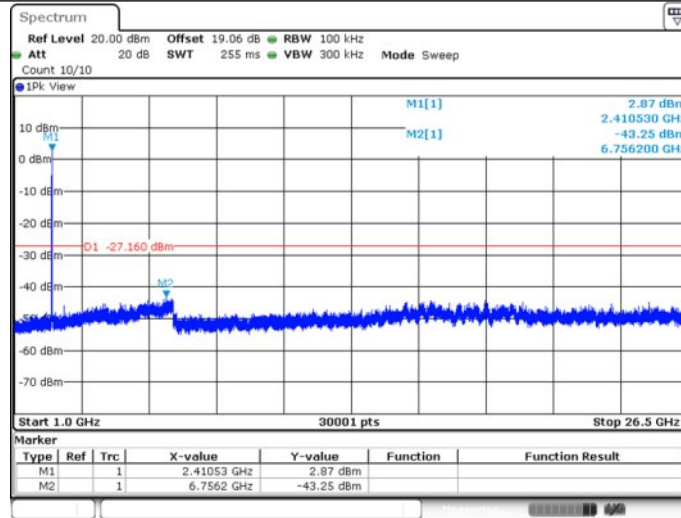
Date: 11.SEP.2025 20:59:50

11G Ant1_2412_30~1000



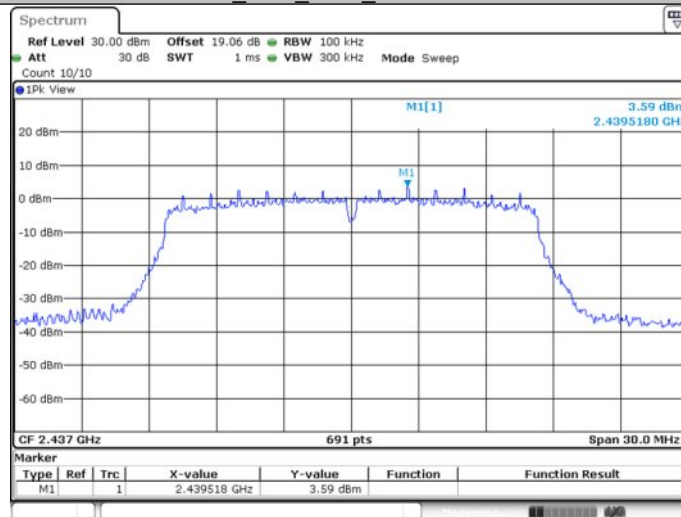
Date: 11.SEP.2025 20:59:59

11G Ant1_2412_1000~26500



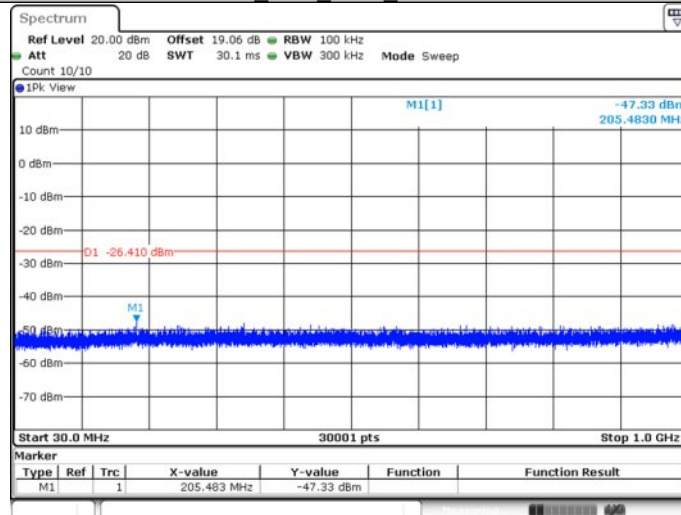
Date: 11.SEP.2025 21:00:21

11G Ant1_2437_0~Reference



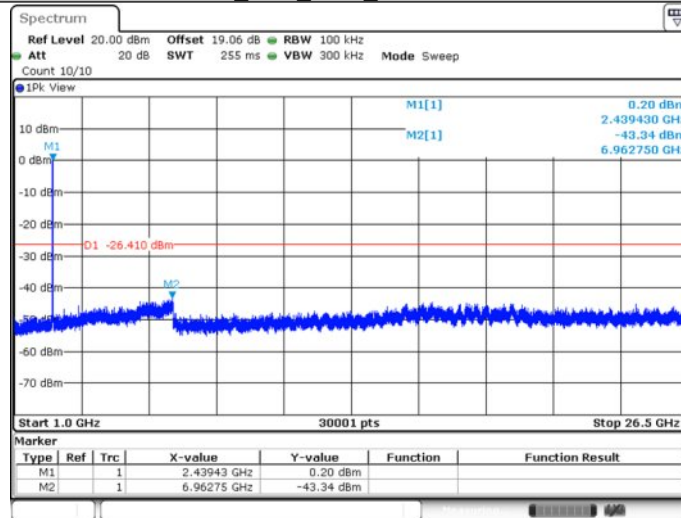
Date: 11.SEP.2025 21:03:22

11G Ant1_2437_30~1000



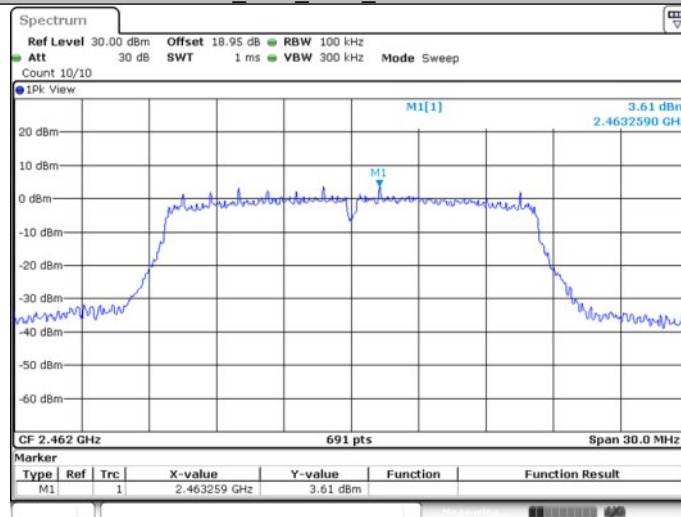
Date: 11.SEP.2025 21:03:30

11G Ant1_2437_1000~26500



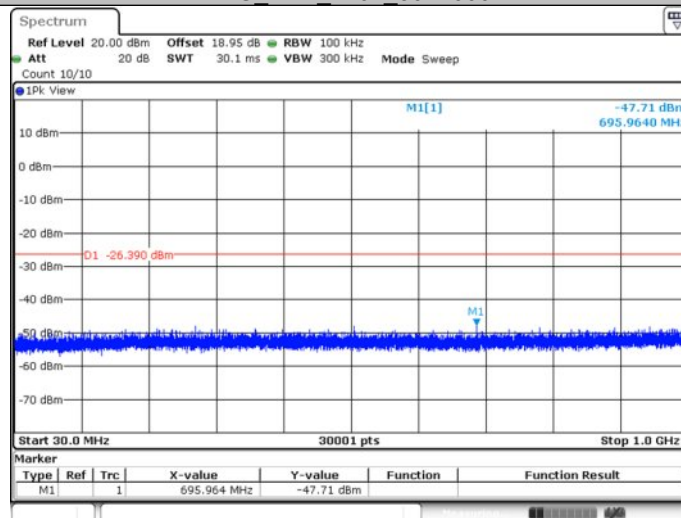
Date: 11.SEP.2025 21:03:53

11G Ant1_2462_0~Reference



Date: 11.SEP.2025 21:06:55

11G Ant1_2462_30~1000



Date: 11.SEP.2025 21:07:04