

Prüfbericht-Nr.: Test report no.:	CN25TN8C 003	Auftrags-Nr.: Order no.:	168568654	Seite 1 von 24 Page 1 of 24
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 5GHz 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

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüflabors kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
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3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>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.</p> <p><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></p>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 FREQUENCY STABILITY

RESULT: Pass

5.1.5 26dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.6 6dB BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 DYNAMIC FREQUENCY SELECTION (DFS)

RESULT: Pass

5.1.9 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 5GHz 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.

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

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Two Line V-Network	R&S	ENV216	DDT-ZC00586	2026/07/06
Pulse Limiter	R&S	KH43101	DDT-ZC00747	2026/03/28
Coaxial signal signal cable	H&S	RG214-5	DDT-ZC01817	2026/03/28
Conducted 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

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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 5GHz Wi-Fi

U-NII-1			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		
48	5240		

U-NII-2A			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300		
64	5320		

U-NII-2C			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	134	5670
112	5560		
116	5580		
132	5660		
136	5680		
140	5700		
144	5720		

U-NII-3			
20MHz Bandwidth		40MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785		
161	5805		
165	5825		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5G 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
Router	HUAWEI	WS5102	74Y7S19726003839

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)

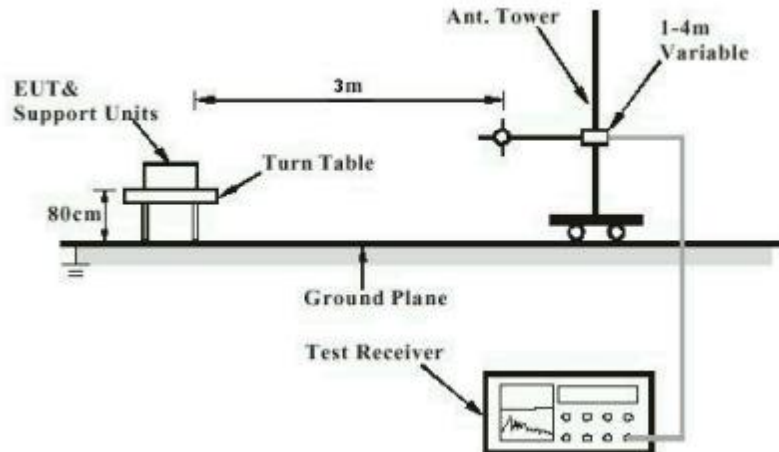


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

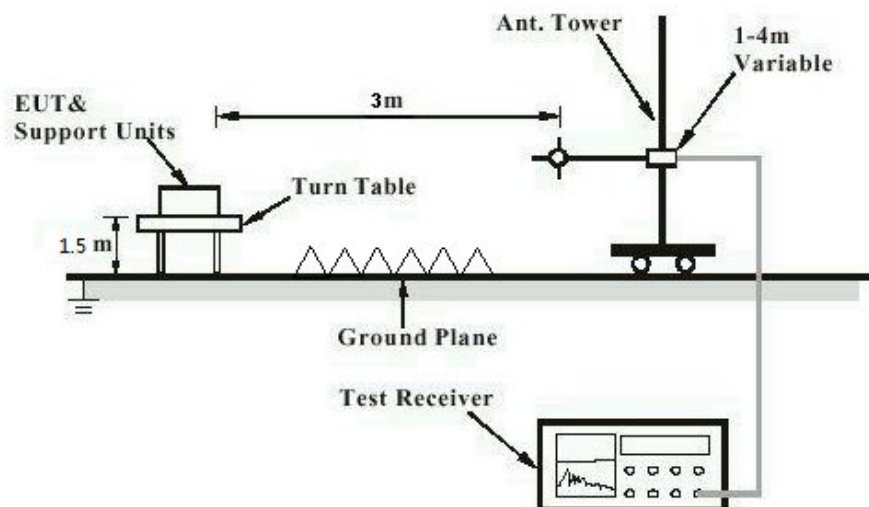


Diagram of Measurement Configuration for Conducted Transmitter Measurement

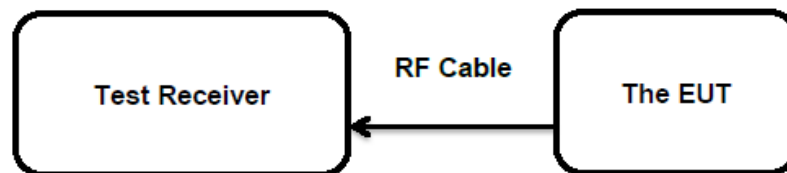


Diagram of Measurement Configuration for Dynamic Frequency Selection (DFS)

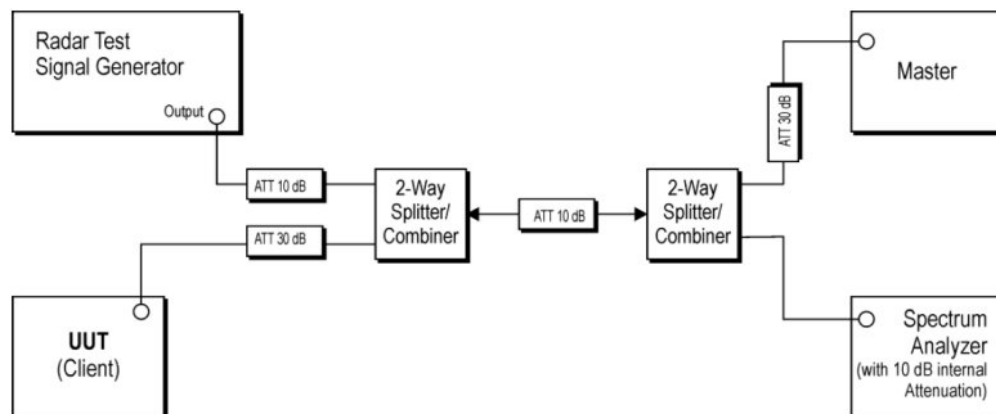
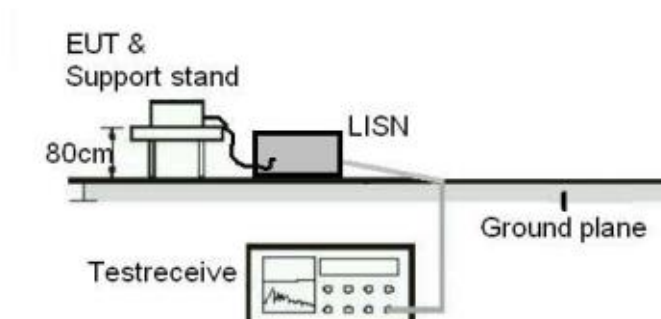


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

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

Test standard : FCC Part 15.203
RSS-247 clause 6.8

According to the manufacturer declared, the EUT has one FPC antenna, the directional gain of antennas is 2.04 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 Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.407(a)(1)&(2)&(4) RSS-247 clause 6.2
Basic standard	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits	: FCC: <250mW (24dBm) (5150-5250MHz) * <250mW (24dBm) (5250-5350MHz, 5470-5725MHz) * 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz, where is lesser. <1W (30dBm) (5725-5850MHz) IC: * Max e.i.r.p. < 200mW (23dBm) (5150-5250MHz) * 200 mW (23dBm) or 10 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. * Max conducted output power < 250mW (24dBm) (5250-5350MHz) * 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. * Max e.i.r.p. < 1W (30dBm) (5250-5350MHz, 5470-5600MHz, 5650-5725MHz) * 1 W (30dBm) or 17 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. Max conducted output power < 1W (30dBm) (5725-5850MHz)
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.

Note: Per RSS-247 section 6.2.3, transmission on channels which overlap 5600-5650MHz is prohibited.
This device is not support 5600-5650MHz radio-frequency operating band.

5.1.3 Conducted Power Spectral Density

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

Test standard	: FCC part 15.407(a) RSS-247 clause 6.2
Basic standard	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 KDB 789033 D02 v01r03
Limits	: FCC: <11dBm/MHz (5150-5250MHz, 5250-5350MHz and 5470-5725MHz) <30dBm/500kHz (5725-5850MHz) IC: e.i.r.p. spectral density <10dBm/MHz (5150-5250MHz) <11dBm/1MHz (5250-5350MHz, 5470-5600MHz and 5650-5725MHz) <30dBm/500kHz (5725-5850MHz)
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.

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5.1.4 Frequency Stability

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.407(g) RSS-Gen Clause 6.11
Basic standard	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits	: Within assigned bands
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.

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5.1.5 26dB Bandwidth and 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.407(e)
RSS-Gen Clause 6.7
Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits : N/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

For the measurement records, refer to the appendix A.

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5.1.6 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.407(e)
RSS-247 clause 6.2.4.1
Basic standard : ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits : At least 500kHz (5725-5850MHz)
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.

5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209 RSS-247 clause 6.2 & RSS-GEN clause 8.9 and 8.10
Basic standard	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 KDB 789033 D02 v01r03
Limits	: <ul style="list-style-type: none">• For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.• For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.• For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. Emissions outside the band 5470-5600 MHz and 5650-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.• For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.• Restricted Bands meet the requirement of 15.209 limit and RSS-GEN
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 result
Relative humidity	: Refer to test result
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.

5.1.8 Dynamic Frequency Selection (DFS)**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.407(h) RSS-247 clause 6.3
Basic standard	: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
Limits	: 5250-5350MHz, 5470-5725MHz Channel Move Time: Within 10 seconds. Channel Closing Transmission Time: 200ms+aggregate of 60ms over remaining 10s period; Non-Occupancy Period: at least 30 minutes.
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
Ambient temperature	: 26.2 °C
Relative humidity	: 46.1 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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Test Report No.:Seite 23 von 24
Page 23 of 24**5.1.9 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.1: Test Results of Maximum output power

Test Result

Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	ISEDE IRP Limit [dBm]	Verdict
11A	Ant1	5180	97.18	0.12	13.45	≤23.98	≤20.23	15.49	≤22.27	PASS
		5200	97.16	0.13	13.11	≤23.98	≤20.22	15.15	≤22.26	PASS
		5240	97.18	0.12	14.08	≤23.98	≤20.25	16.12	≤22.29	PASS
		5260	97.18	0.12	14.35	≤23.98	≤23.26	16.39	≤26.99	PASS
		5280	97.18	0.12	14.81	≤23.98	≤23.29	16.85	≤26.99	PASS
		5320	97.18	0.12	15.66	≤23.98	≤23.28	17.70	≤26.99	PASS
		5500	97.18	0.12	14.07	≤23.98	≤23.26	16.11	≤26.99	PASS
		5580	97.16	0.13	13.57	≤23.98	≤23.28	15.61	≤26.99	PASS
		5700	97.18	0.12	14.24	≤23.98	≤23.29	16.28	≤26.99	PASS
		5720	97.18	0.12	16.09	≤23.98	≤23.29	18.13	≤26.99	PASS
		5745	97.18	0.12	18.14	≤30.00	≤30.00	20.18	---	PASS
		5785	97.16	0.13	18.00	≤30.00	≤30.00	20.04	---	PASS
11N20SIS O	Ant1	5825	97.16	0.13	17.90	≤30.00	≤30.00	19.94	---	PASS
		5180	96.99	0.13	13.51	≤23.98	≤20.42	15.55	≤22.46	PASS
		5200	96.99	0.13	13.42	≤23.98	≤20.41	15.46	≤22.45	PASS
		5240	96.99	0.13	13.94	≤23.98	≤20.43	15.98	≤22.47	PASS
		5260	96.99	0.13	14.40	≤23.98	≤23.44	16.44	≤26.99	PASS
		5280	96.99	0.13	14.87	≤23.98	≤23.47	16.91	≤26.99	PASS
		5320	96.99	0.13	15.78	≤23.98	≤23.47	17.82	≤26.99	PASS
		5500	96.99	0.13	13.80	≤23.98	≤23.47	15.84	≤26.99	PASS
		5580	96.99	0.13	13.30	≤23.98	≤23.46	15.34	≤26.99	PASS
		5700	96.99	0.13	14.34	≤23.98	≤23.48	16.38	≤26.99	PASS
		5720	96.99	0.13	16.16	≤23.98	≤23.47	18.20	≤26.99	PASS
		5745	96.99	0.13	17.74	≤30.00	≤30.00	19.78	---	PASS
11N40SIS O	Ant1	5785	96.99	0.13	17.64	≤30.00	≤30.00	19.68	---	PASS
		5825	96.99	0.13	17.78	≤30.00	≤30.00	19.82	---	PASS
		5190	92.75	0.33	17.31	≤23.98	≤20.97	19.35	≤23.01	PASS
		5230	94.12	0.26	18.11	≤23.98	≤20.97	20.15	≤23.01	PASS
		5270	94.12	0.26	18.75	≤23.98	≤23.98	20.79	≤26.99	PASS
		5310	94.12	0.26	19.45	≤23.98	≤23.98	21.49	≤26.99	PASS
		5510	92.75	0.33	17.13	≤23.98	≤23.98	19.17	≤26.99	PASS
		5550	92.75	0.33	16.85	≤23.98	≤23.98	18.89	≤26.99	PASS
		5670	92.75	0.33	17.75	≤23.98	≤23.98	19.79	≤26.99	PASS
		5710	94.12	0.26	19.52	≤23.98	≤23.98	21.56	≤26.99	PASS
		5755	94.12	0.26	19.92	≤30.00	≤30.00	21.96	---	PASS
		5795	94.12	0.26	20.05	≤30.00	≤30.00	22.09	---	PASS

Max. e.i.r.p.=Max Conducted power(dBm) +antenna Gain(dBi)

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 2.04 dBi

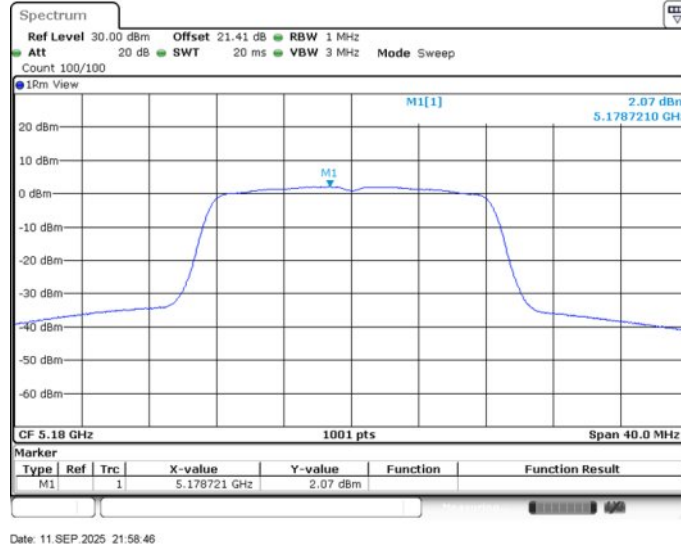
Appendix A.2: Test Results of Conducted Power Spectral Density

Test Result

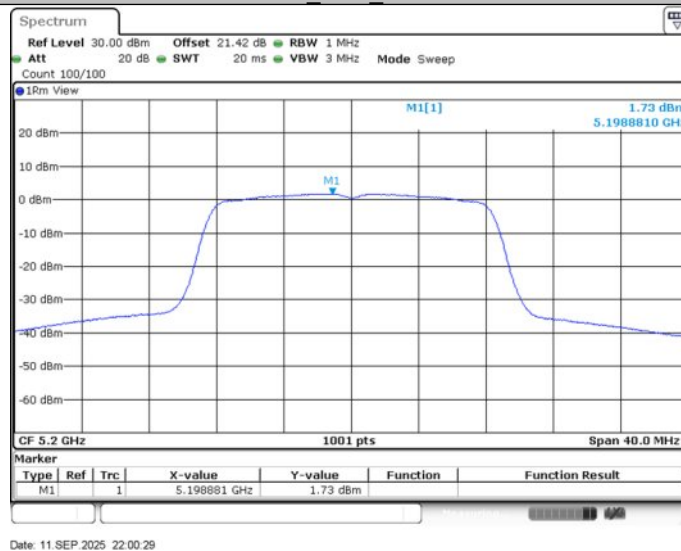
Test Mode	Antenna	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	ISED EIRP Limit [dBm/MHz]	Verdict
11A	Ant1	5180	2.07	≤11.00	4.11	≤10.00	PASS
		5200	1.73	≤11.00	3.77	≤10.00	PASS
		5240	2.62	≤11.00	4.66	≤10.00	PASS
		5260	2.52	≤11.00	4.56	---	PASS
		5280	3.03	≤11.00	5.07	---	PASS
		5320	3.91	≤11.00	5.95	---	PASS
		5500	2.59	≤11.00	4.63	---	PASS
		5580	1.85	≤11.00	3.89	---	PASS
		5700	2.81	≤11.00	4.85	---	PASS
		5720_UNII-2C	4.50	≤11.00	6.54	---	PASS
		5720_UNII-3	0.82	≤30.00	2.86	---	PASS
		5745	4.30	≤30.00	6.34	---	PASS
		5785	3.92	≤30.00	5.96	---	PASS
		5825	3.90	≤30.00	5.94	---	PASS
11N20SISO	Ant1	5180	2.44	≤11.00	4.48	≤10.00	PASS
		5200	2.31	≤11.00	4.35	≤10.00	PASS
		5240	2.99	≤11.00	5.03	≤10.00	PASS
		5260	2.86	≤11.00	4.90	---	PASS
		5280	3.21	≤11.00	5.25	---	PASS
		5320	4.15	≤11.00	6.19	---	PASS
		5500	2.54	≤11.00	4.58	---	PASS
		5580	1.84	≤11.00	3.88	---	PASS
		5700	2.60	≤11.00	4.64	---	PASS
		5720_UNII-2C	4.64	≤11.00	6.68	---	PASS
		5720_UNII-3	0.82	≤30.00	2.86	---	PASS
		5745	3.39	≤30.00	5.43	---	PASS
		5785	3.05	≤30.00	5.09	---	PASS
		5825	2.96	≤30.00	5.00	---	PASS
11N40SISO	Ant1	5190	2.27	≤11.00	4.31	≤10.00	PASS
		5230	2.64	≤11.00	4.68	≤10.00	PASS
		5270	3.15	≤11.00	5.19	---	PASS
		5310	3.98	≤11.00	6.02	---	PASS
		5510	2.33	≤11.00	4.37	---	PASS
		5550	1.91	≤11.00	3.95	---	PASS
		5670	1.98	≤11.00	4.02	---	PASS
		5710_UNII-2C	4.23	≤11.00	6.27	---	PASS
		5710_UNII-3	0.75	≤30.00	2.79	---	PASS
		5755	1.75	≤30.00	3.79	---	PASS
		5795	1.64	≤30.00	3.68	---	PASS

Test Graphs

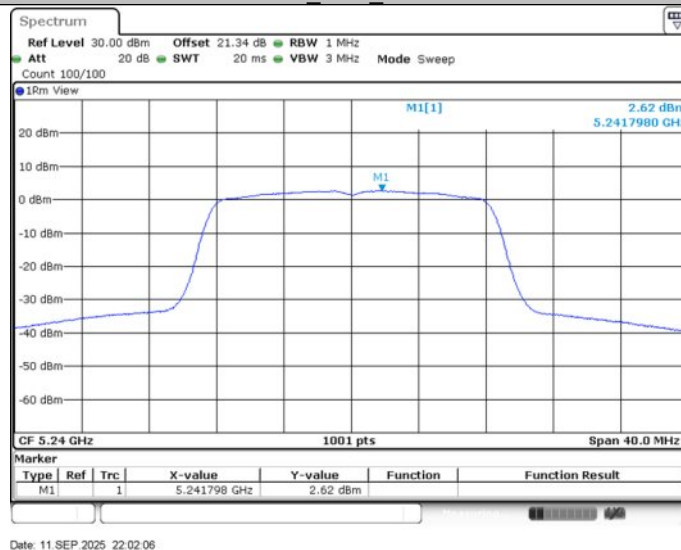
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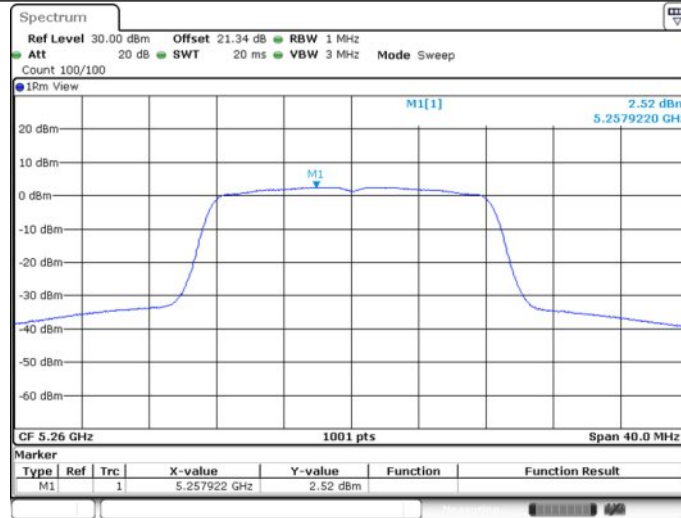
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11A_Ant1_5240

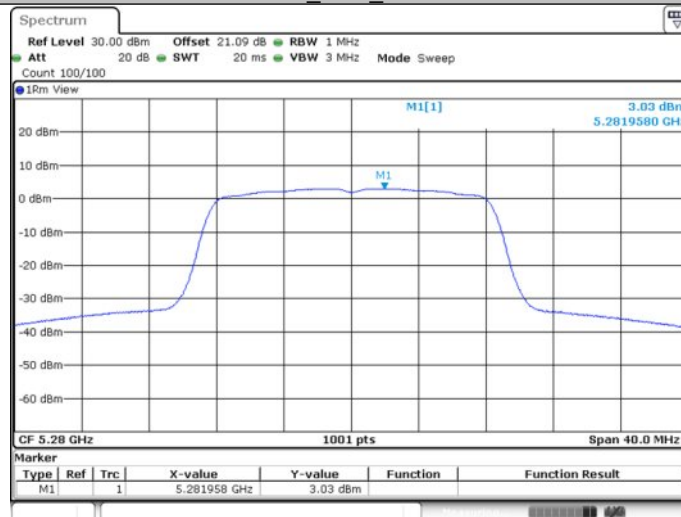


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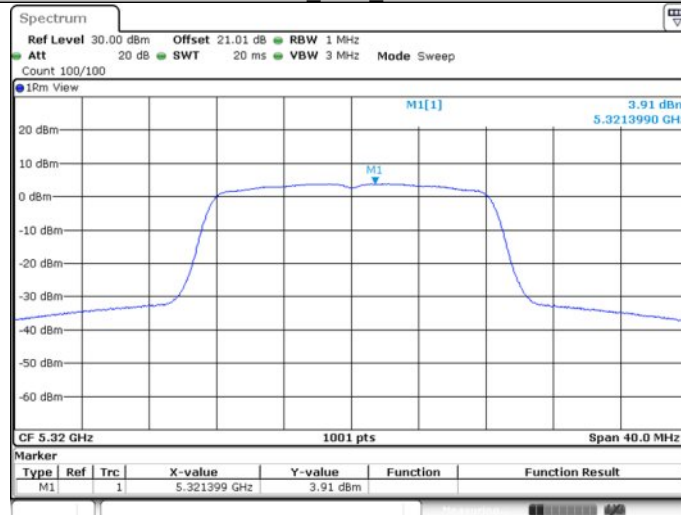
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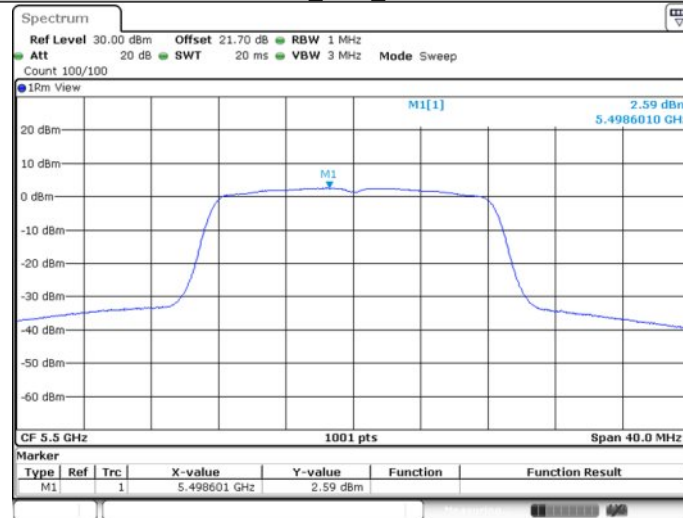
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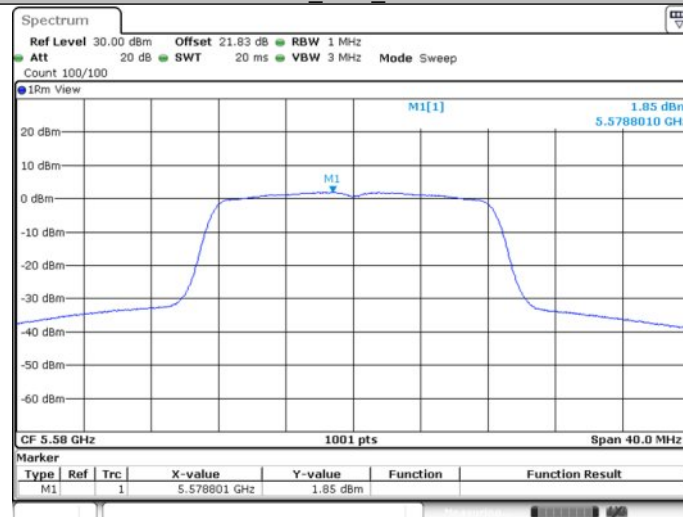
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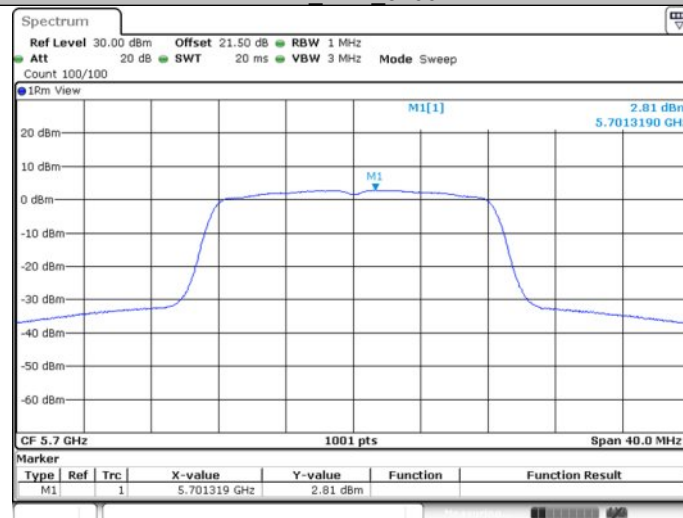
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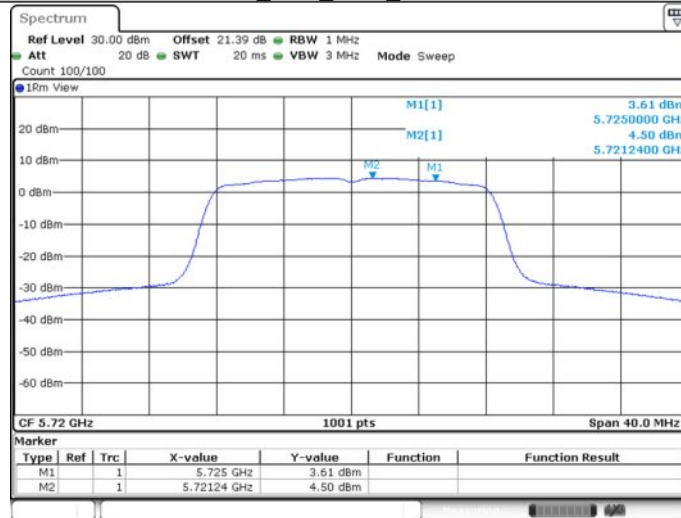
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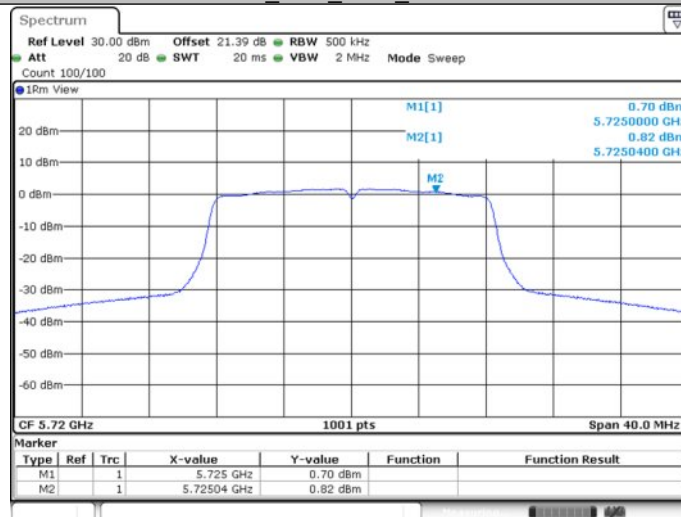
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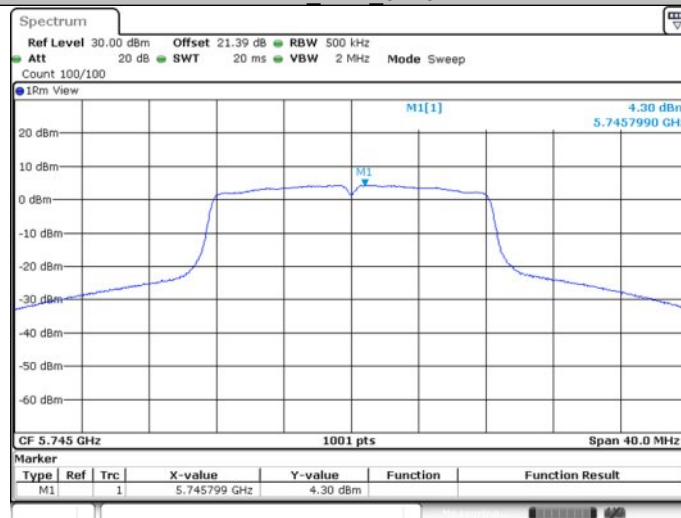
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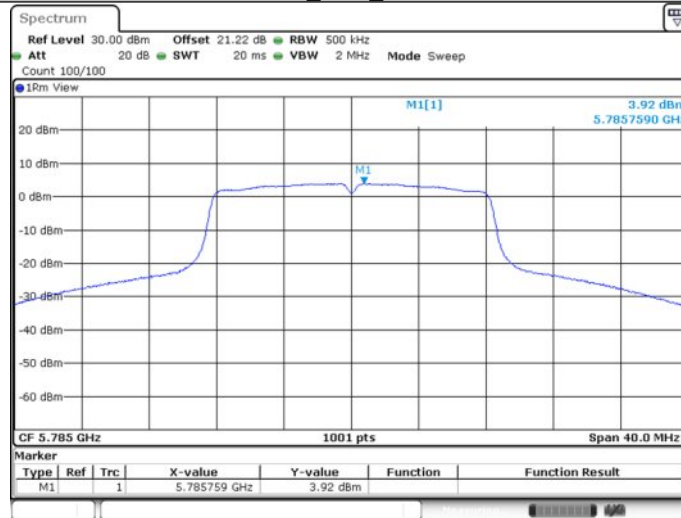
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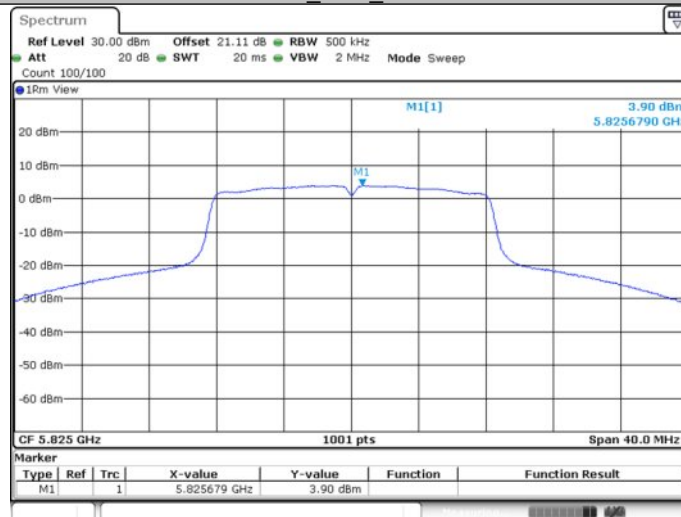
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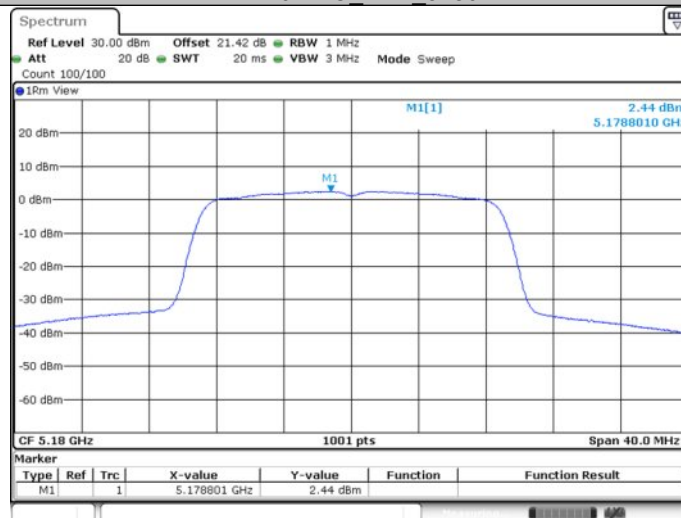
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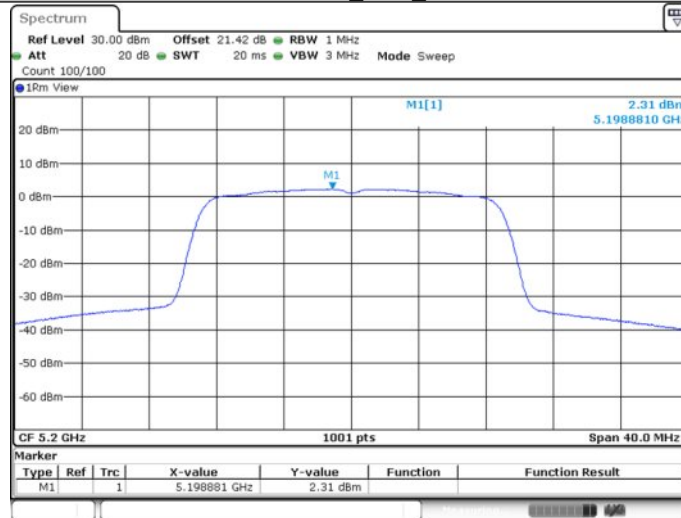
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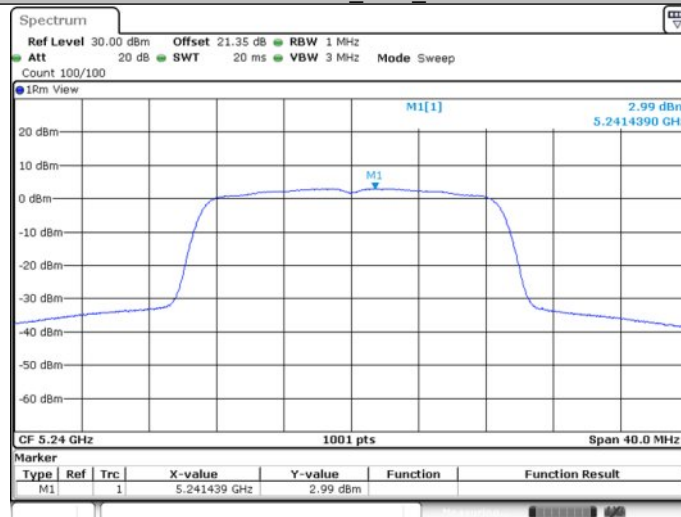
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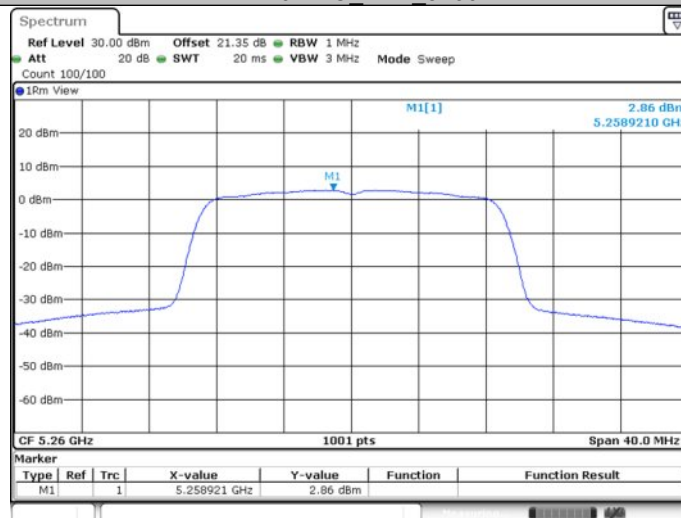
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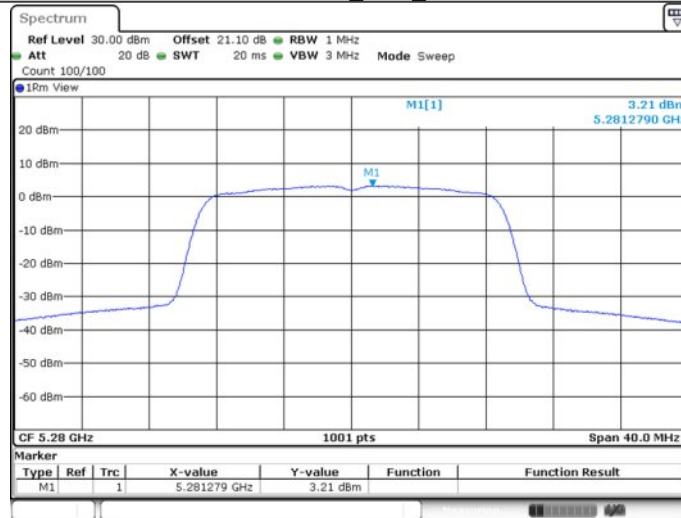
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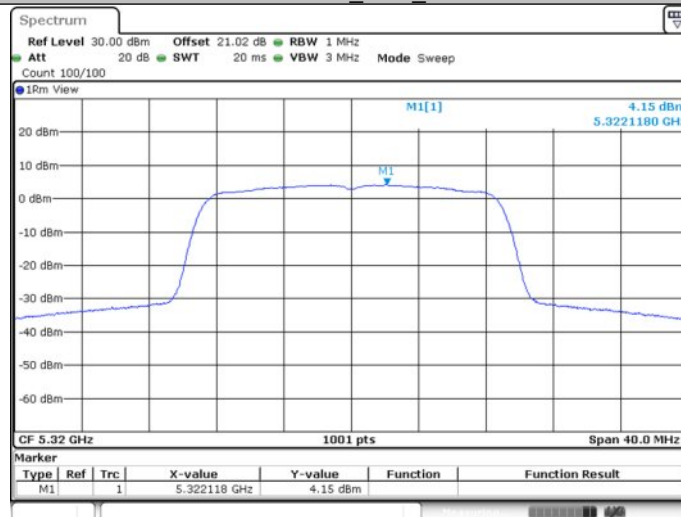
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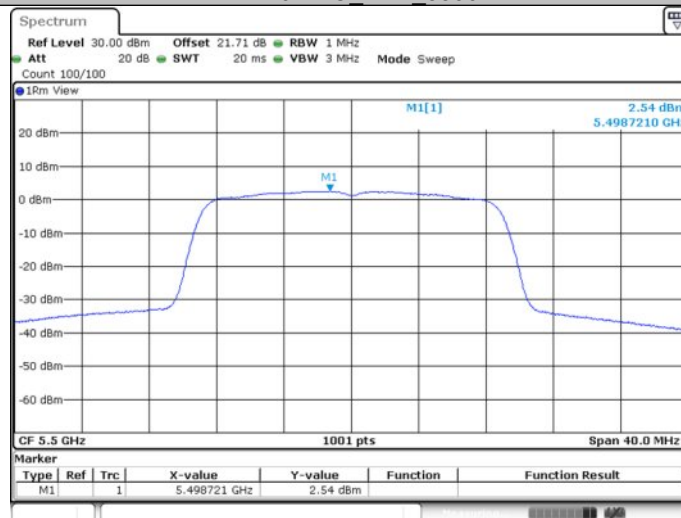
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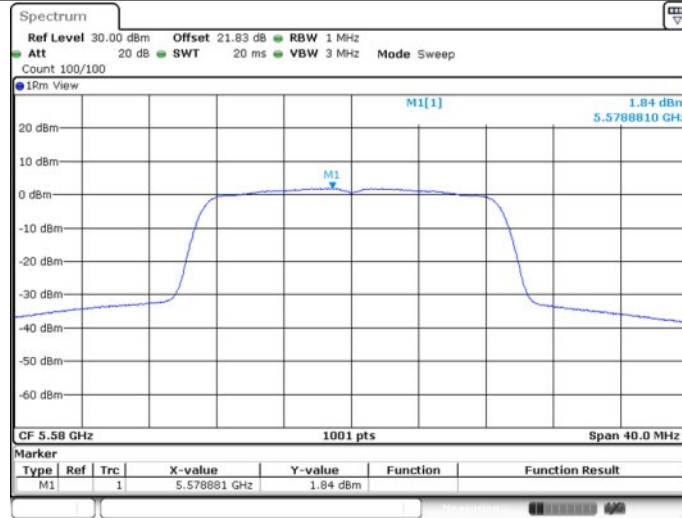
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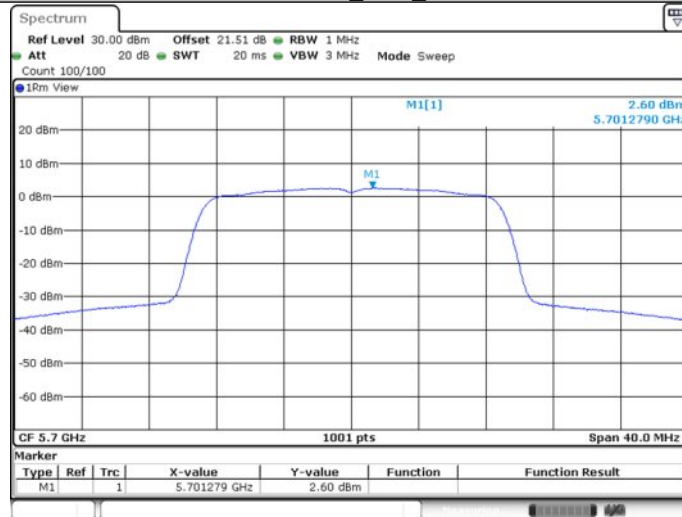
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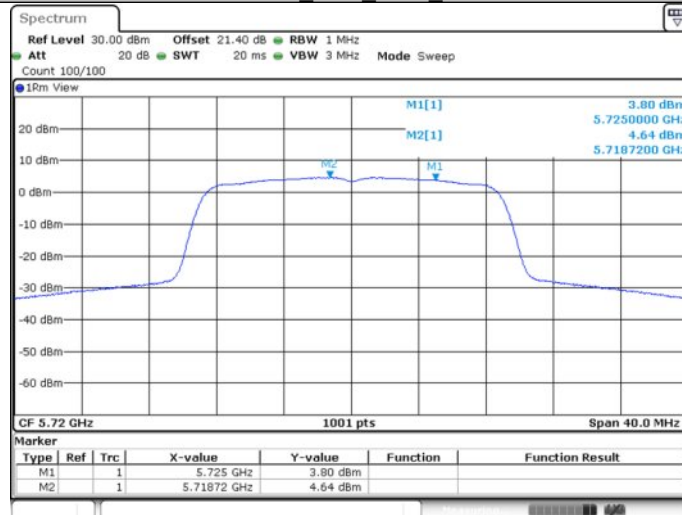
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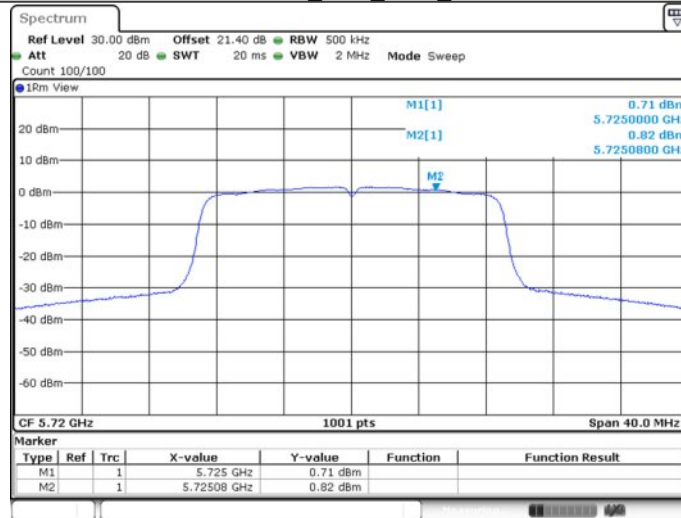
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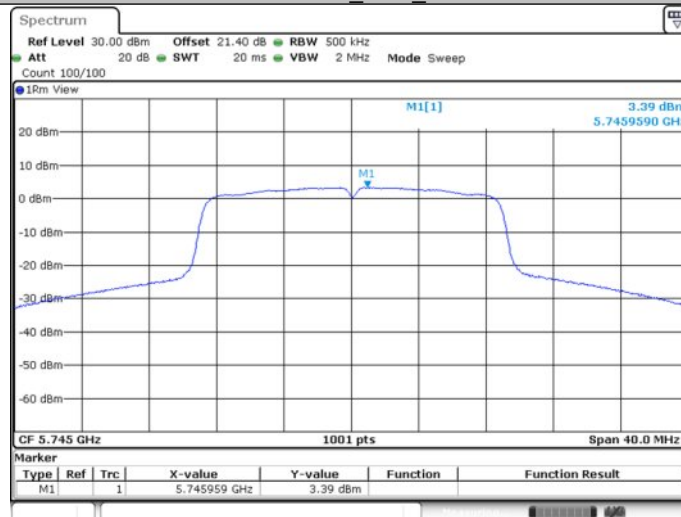
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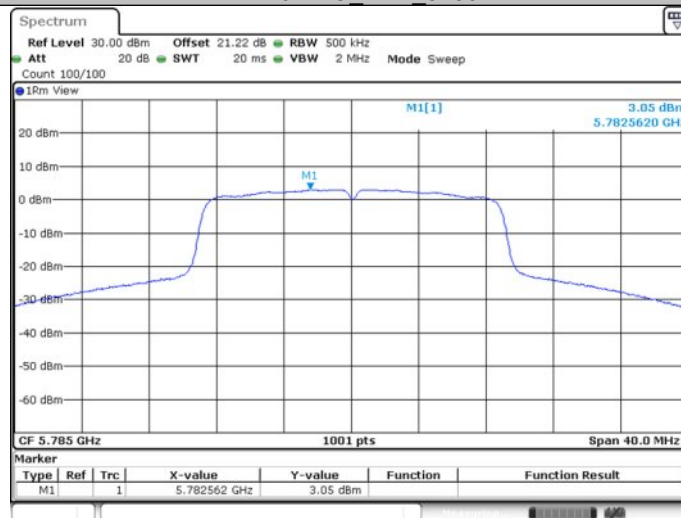
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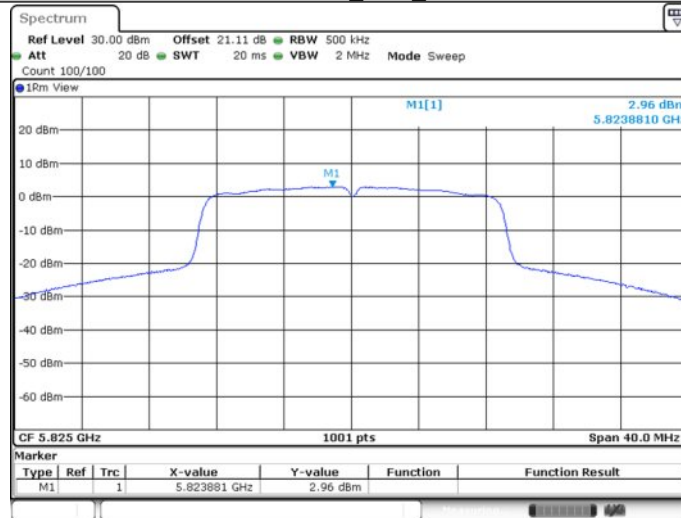
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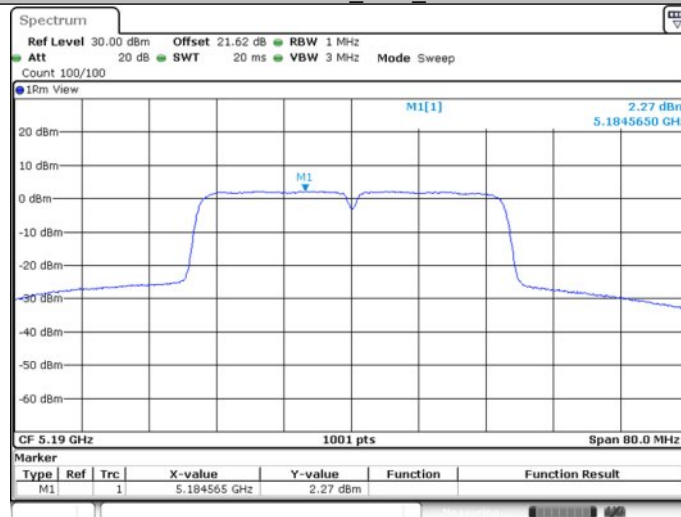
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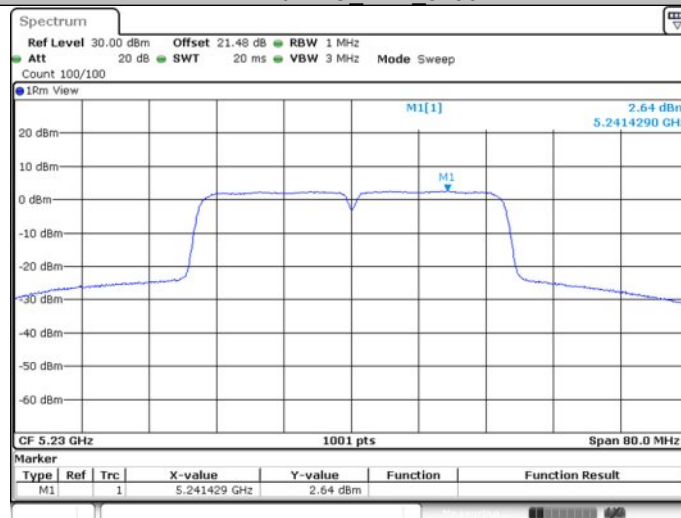
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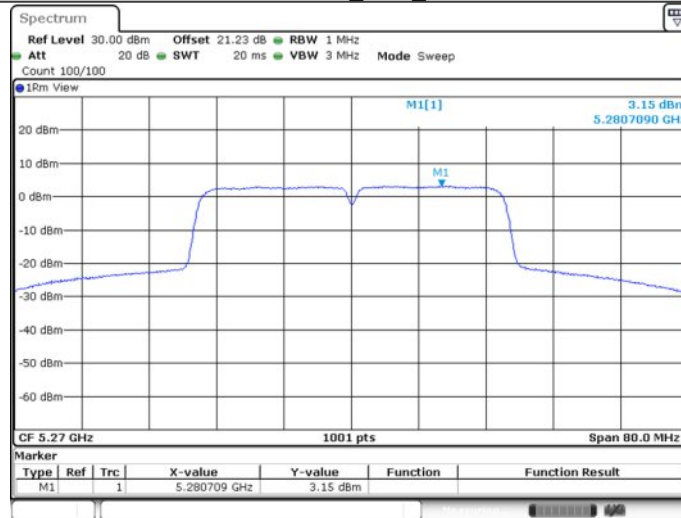
Date: 12 SEP 2025 09:34:08

11N40SISO_Ant1_5230



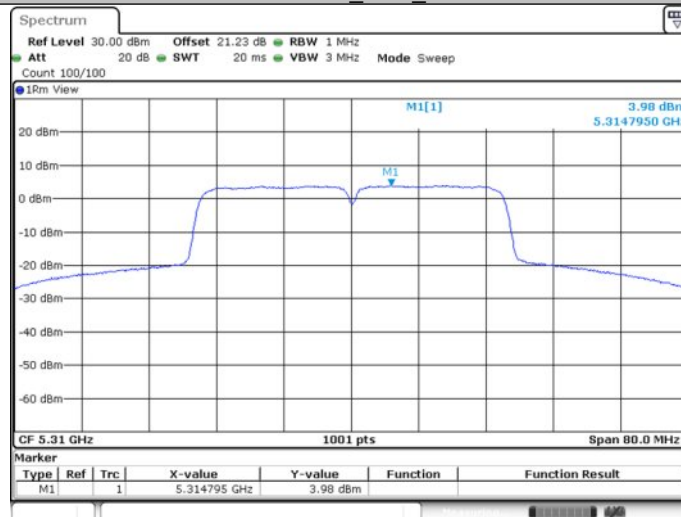
Date: 12 SEP 2025 09:35:49

11N40SISO_Ant1_5270



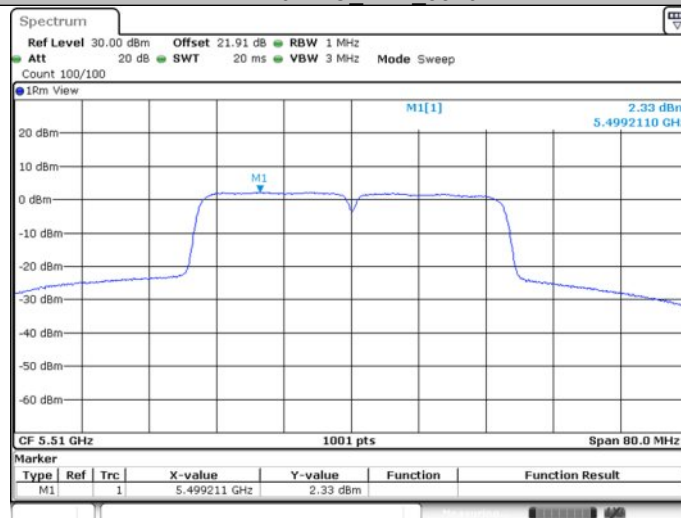
Date: 12 SEP 2025 09:37:59

11N40SISO_Ant1_5310



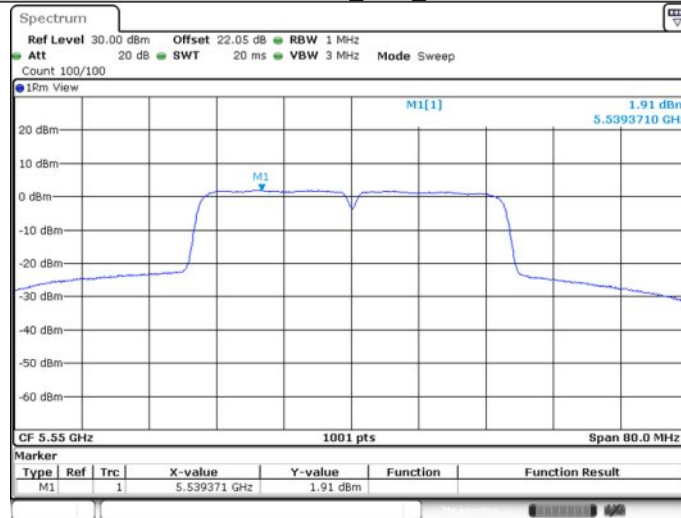
Date: 12 SEP 2025 09:40:36

11N40SISO_Ant1_5510



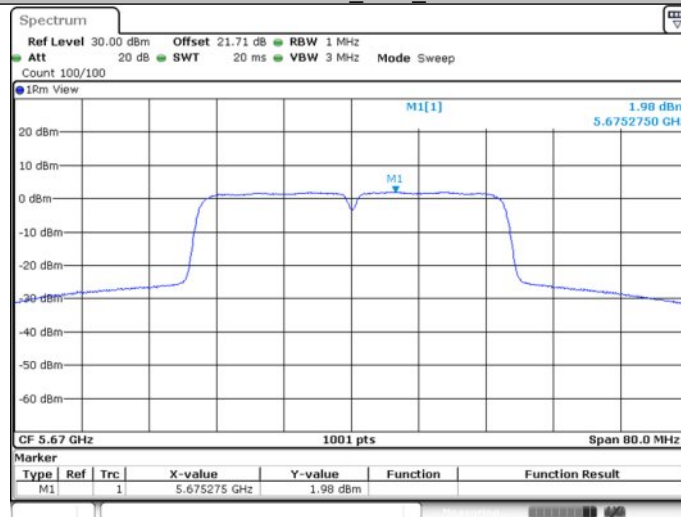
Date: 12 SEP 2025 09:42:25

11N40SISO Ant1 5550



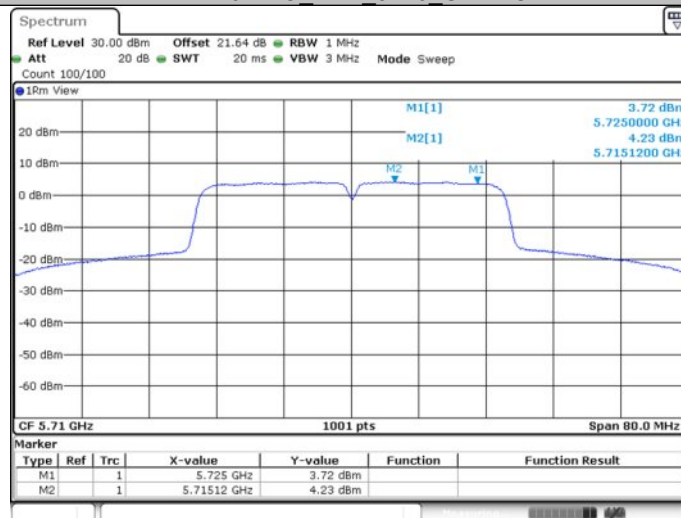
Date: 12 SEP 2025 09:44:05

11N40SISO Ant1 5670



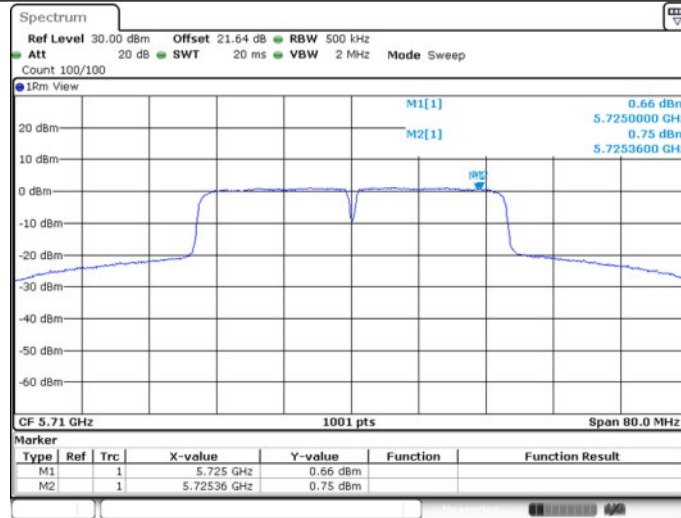
Date: 12 SEP 2025 09:45:58

11N40SISO Ant1 5710 UNII-2C



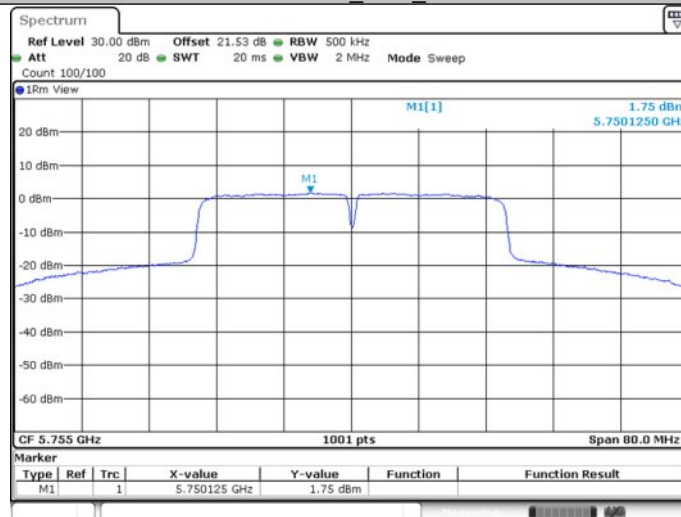
Date: 12 SEP 2025 09:47:49

N40SISO_Ant1_5710_UNII-3



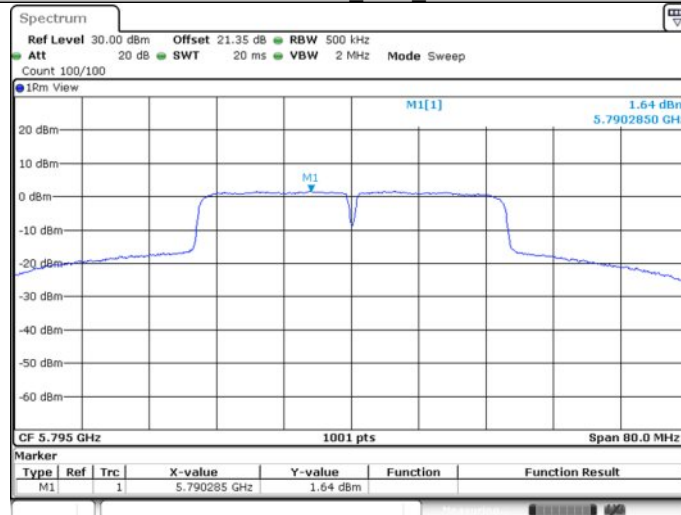
Date: 12 SEP 2025 09:48:17

11N40SISO_Ant1_5755



Date: 12 SEP 2025 09:51:37

11N40SISO_Ant1_5795



Date: 12 SEP 2025 09:53:27

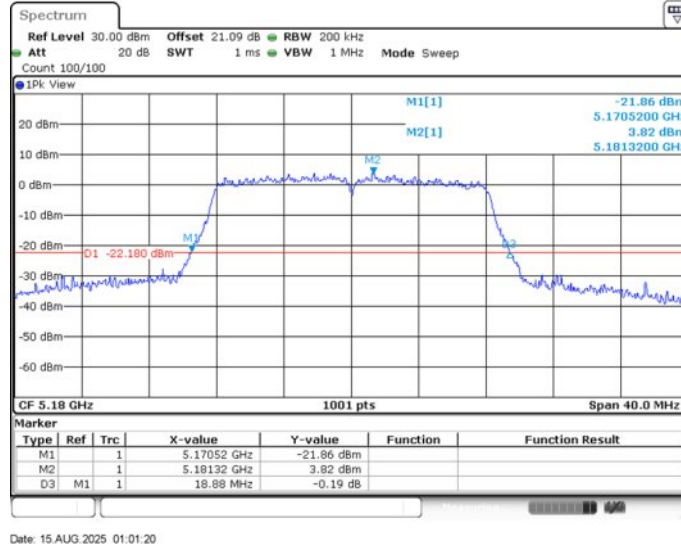
Appendix A.3: Test Results of 26dB Bandwidth

Test Result

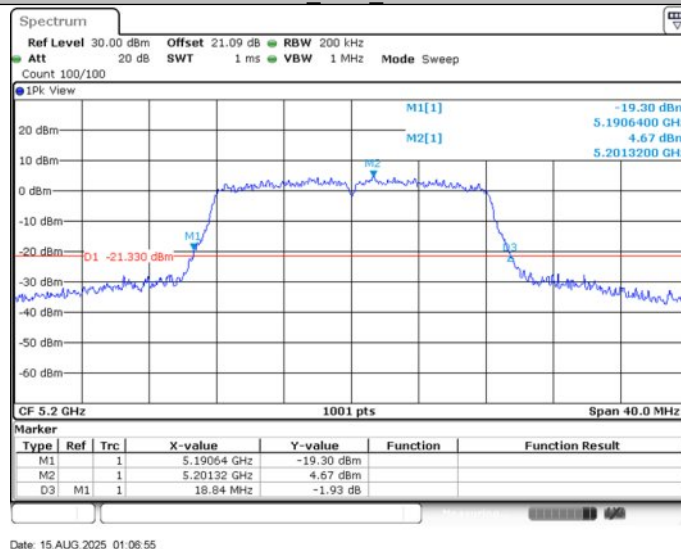
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.88	5170.52	5189.40	---	---
		5200	18.84	5190.64	5209.48	---	---
		5240	19.20	5230.60	5249.80	---	---
		5260	19.08	5250.44	5269.52	---	---
		5280	19.20	5270.60	5289.80	---	---
		5320	19.08	5310.52	5329.60	---	---
		5500	18.88	5490.60	5509.48	---	---
		5580	18.92	5570.64	5589.56	---	---
		5700	19.16	5690.56	5709.72	---	---
		5720	19.00	5710.76	5729.76	---	---
		5720_UNII-2C	14.24	5710.76	5725	---	---
		5720_UNII-3	4.76	5725	5729.76	---	---
		5745	19.08	5735.56	5754.64	---	---
		5785	19.00	5775.64	5794.64	---	---
		5825	21.76	5814.08	5835.84	---	---
11N20SISO	Ant1	5180	19.56	5170.16	5189.72	---	---
		5200	19.28	5190.52	5209.80	---	---
		5240	19.52	5230.40	5249.92	---	---
		5260	19.24	5250.40	5269.64	---	---
		5280	19.44	5270.32	5289.76	---	---
		5320	19.40	5310.36	5329.76	---	---
		5500	19.40	5490.36	5509.76	---	---
		5580	19.32	5570.44	5589.76	---	---
		5700	19.36	5690.40	5709.76	---	---
		5720	19.44	5710.40	5729.84	---	---
		5720_UNII-2C	14.6	5710.40	5725	---	---
		5720_UNII-3	4.84	5725	5729.84	---	---
		5745	19.44	5735.40	5754.84	---	---
		5785	19.68	5775.28	5794.96	---	---
		5825	22.56	5813.80	5836.36	---	---
11N40SISO	Ant1	5190	39.36	5170.24	5209.60	---	---
		5230	39.28	5210.24	5249.52	---	---
		5270	39.12	5250.48	5289.60	---	---
		5310	38.96	5290.48	5329.44	---	---
		5510	39.04	5490.48	5529.52	---	---
		5550	39.12	5530.40	5569.52	---	---
		5670	38.96	5650.64	5689.60	---	---
		5710	39.44	5690.16	5729.60	---	---
		5710_UNII-2C	34.84	5690.16	5725	---	---
		5710_UNII-3	4.6	5725	5729.60	---	---
		5755	39.28	5735.40	5774.68	---	---
		5795	39.28	5775.40	5814.68	---	---

Test Graphs

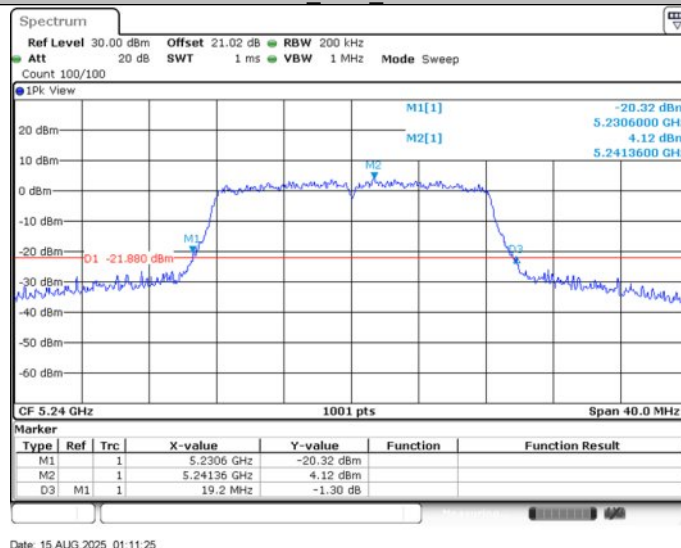
11A_Ant1_5180



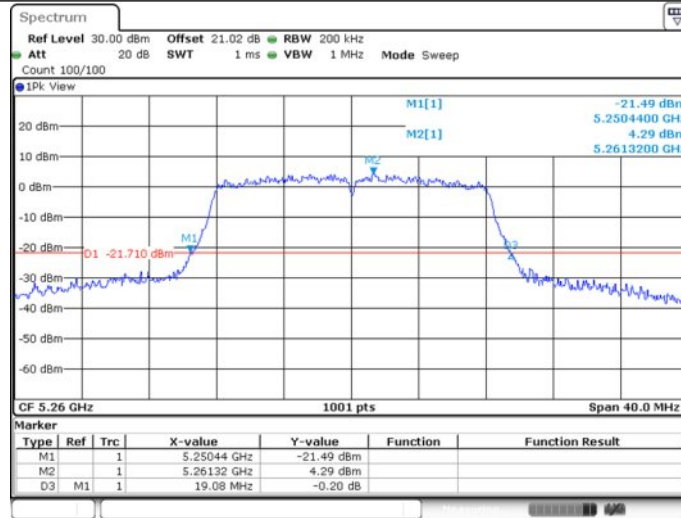
11A_Ant1_5200



11A_Ant1_5240

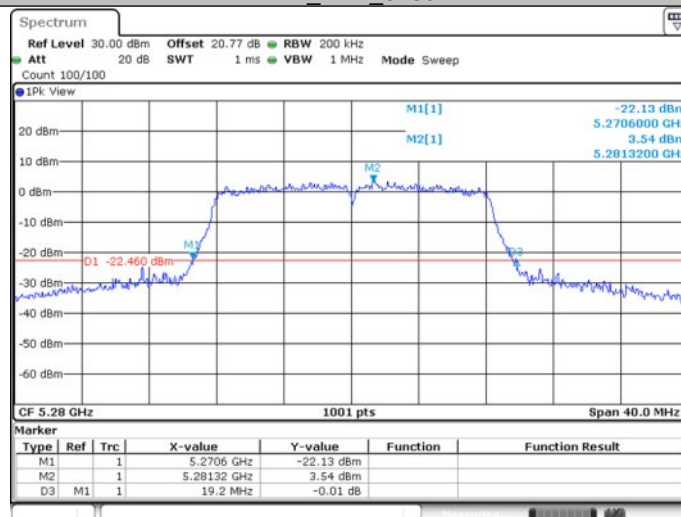


11A_Ant1_5260



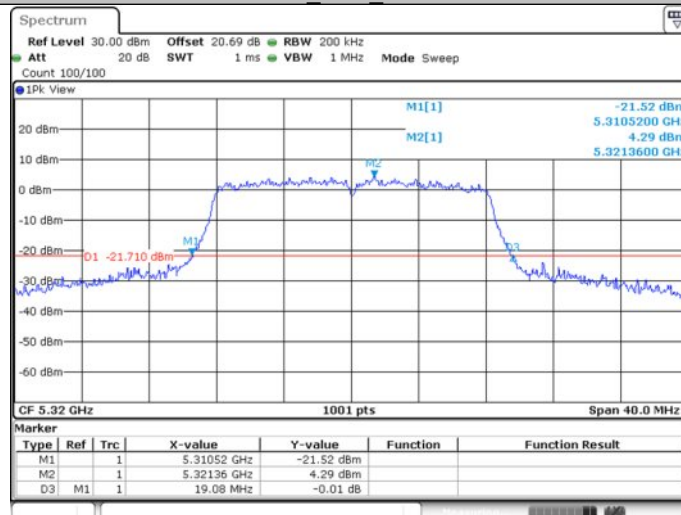
Date: 15.AUG.2025 01:16:13

11A_Ant1_5280



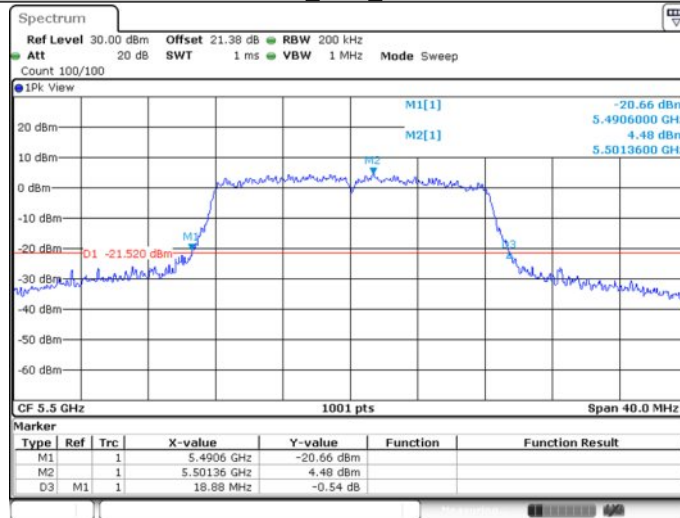
Date: 15.AUG.2025 01:20:16

11A_Ant1_5320



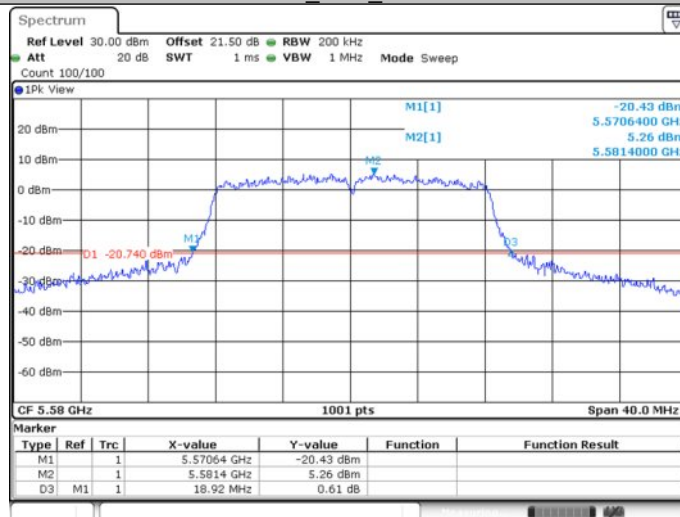
Date: 15.AUG.2025 01:24:37

11A_Ant1_5500



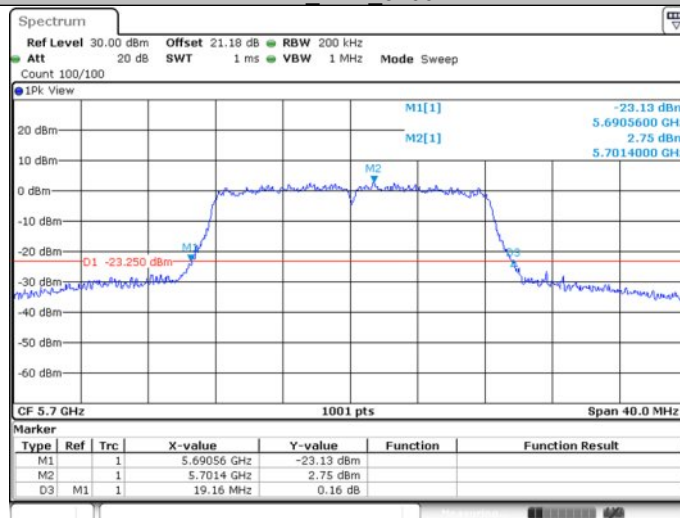
Date: 15.AUG.2025 01:28:43

11A_Ant1_5580



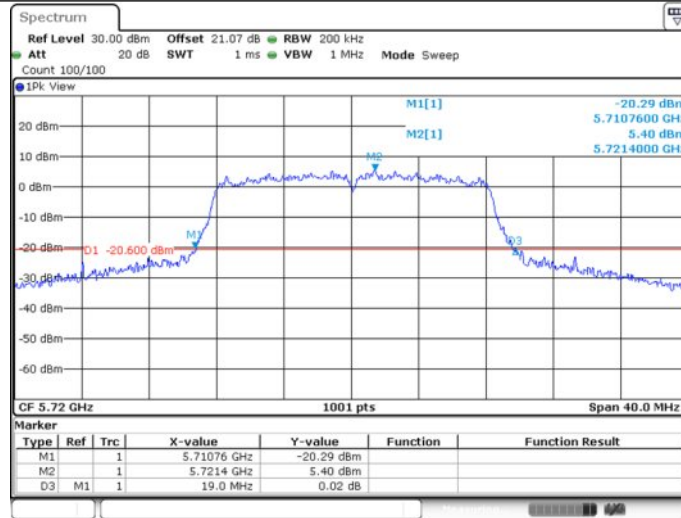
Date: 15.AUG.2025 01:33:37

11A_Ant1_5700



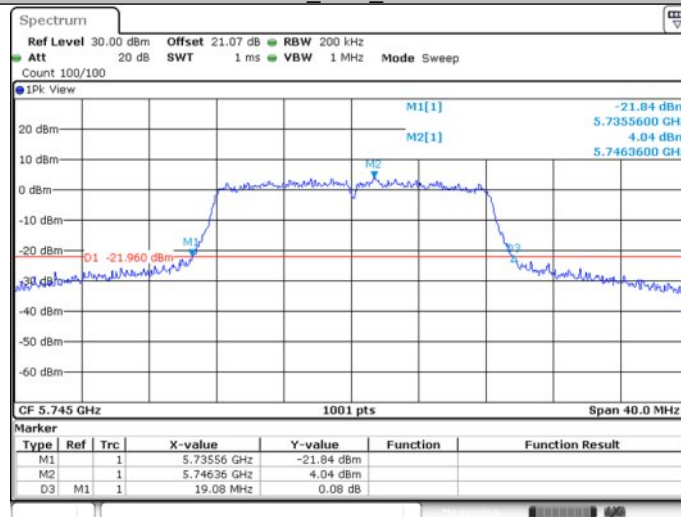
Date: 15.AUG.2025 01:39:37

11A_Ant1_5720



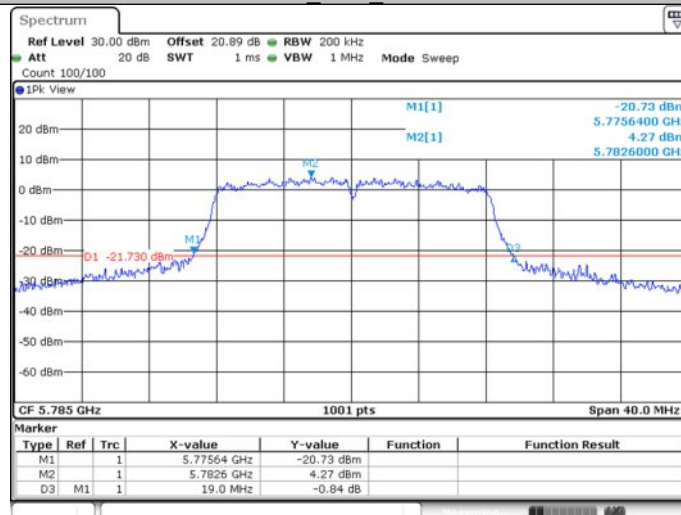
Date: 15.AUG.2025 01:44:04

11A_Ant1_5745



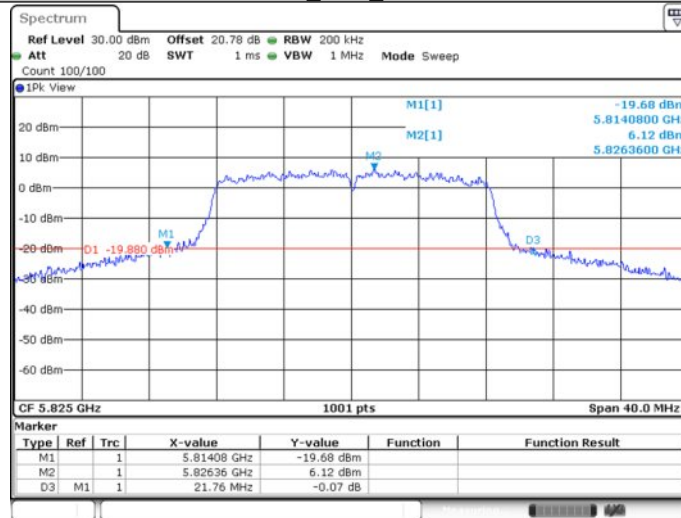
Date: 15.AUG.2025 01:50:27

11A_Ant1_5785



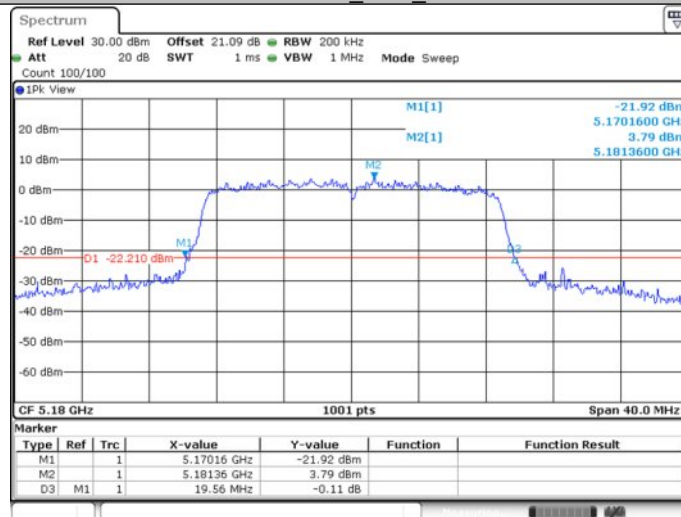
Date: 15.AUG.2025 01:54:42

11A_Ant1_5825



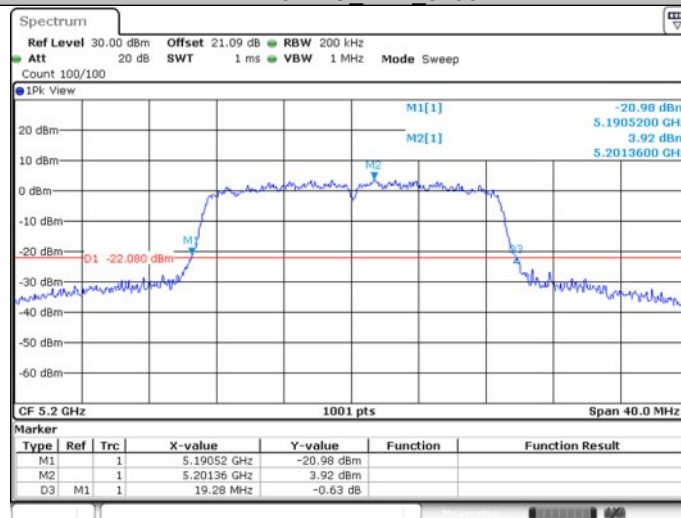
Date: 15.AUG.2025 01:59:41

11N20SISO_Ant1_5180



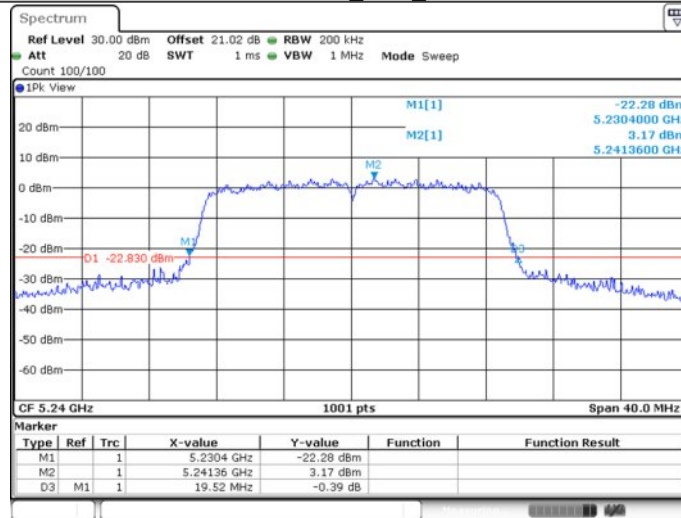
Date: 15.AUG.2025 02:04:45

11N20SISO_Ant1_5200



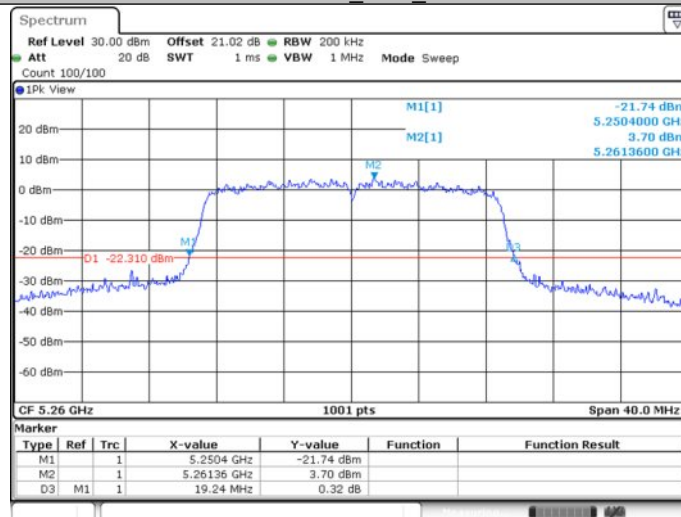
Date: 15.AUG.2025 02:06:10

11N20SISO Ant1 5240



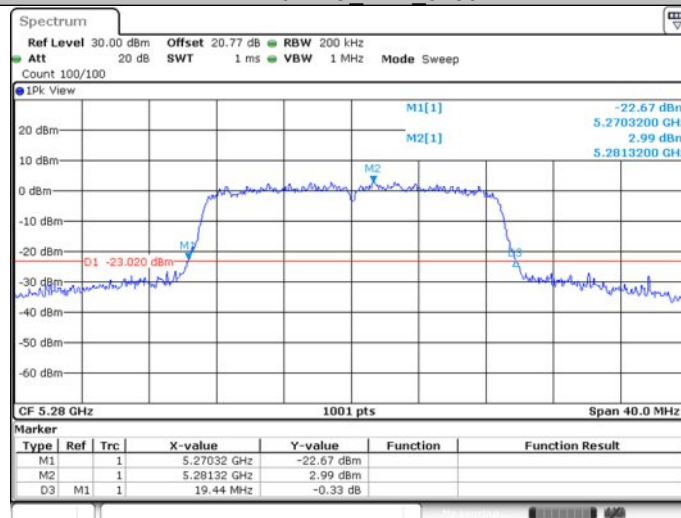
Date: 15.AUG.2025 02:07:50

11N20SISO Ant1 5260



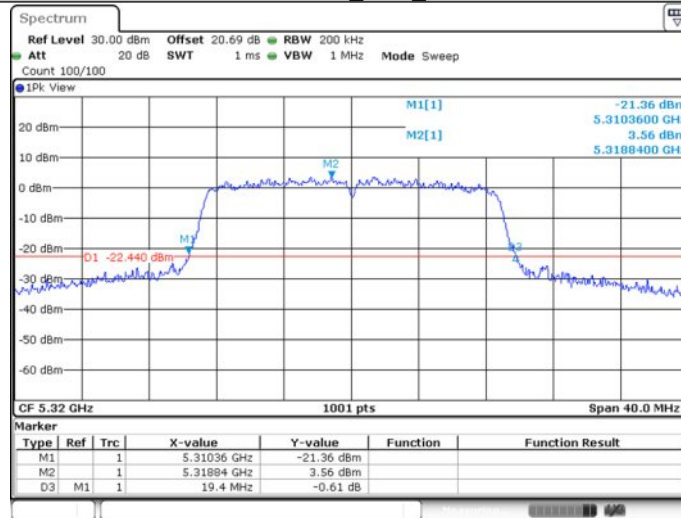
Date: 15.AUG.2025 02:09:12

11N20SISO Ant1 5280



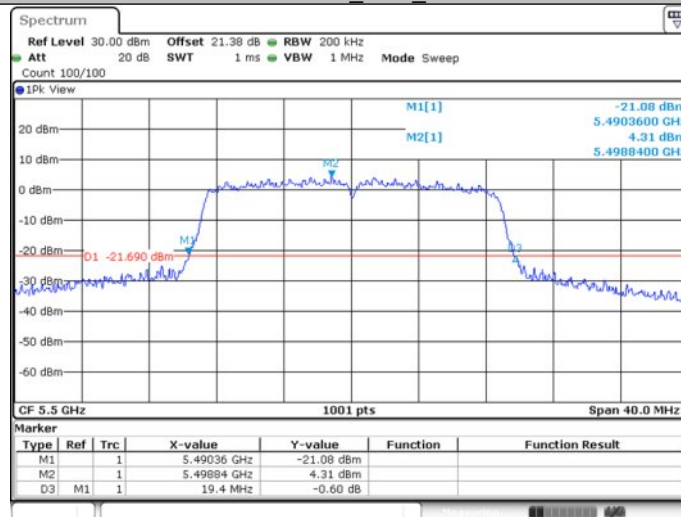
Date: 15.AUG.2025 02:10:58

11N20SISO_Ant1_5320



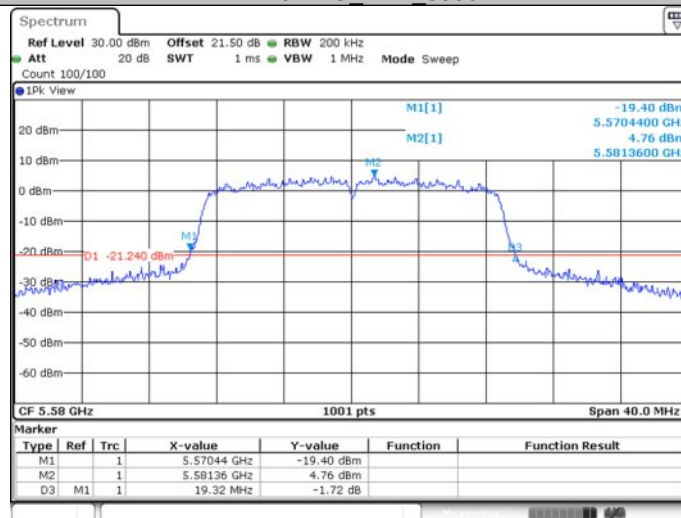
Date: 15.AUG.2025 02:12:45

11N20SISO_Ant1_5500



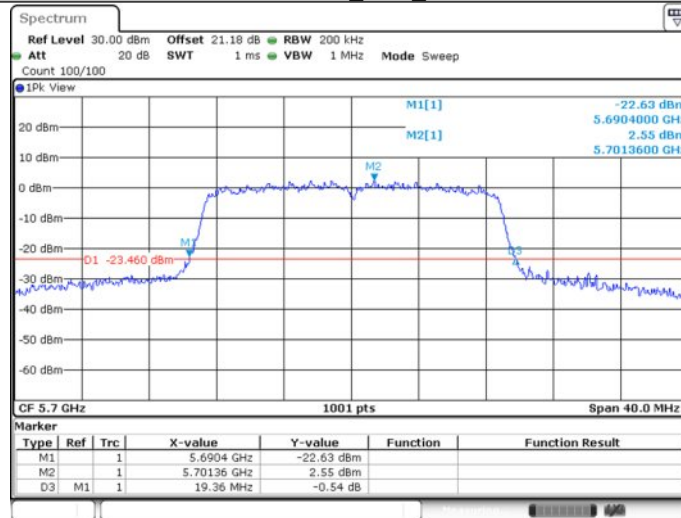
Date: 15.AUG.2025 02:14:00

11N20SISO_Ant1_5580



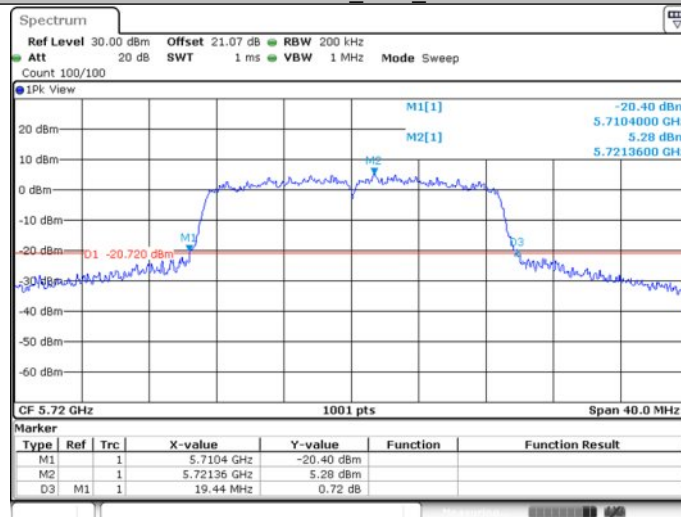
Date: 15.AUG.2025 02:15:21

11N20SISO_Ant1_5700



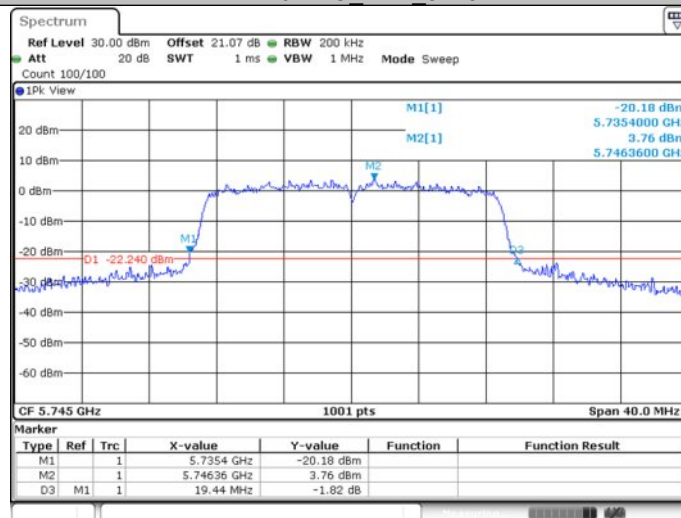
Date: 15.AUG.2025 02:16:24

11N20SISO_Ant1_5720



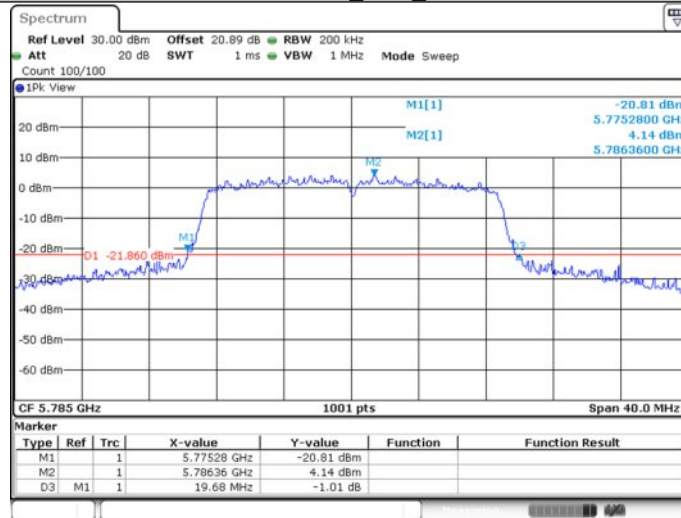
Date: 15.AUG.2025 02:17:47

11N20SISO_Ant1_5745



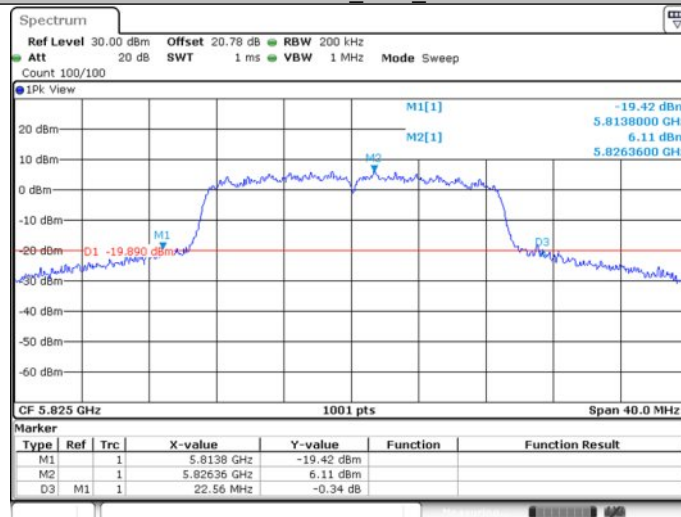
Date: 15.AUG.2025 02:18:47

11N20SISO_Ant1_5785



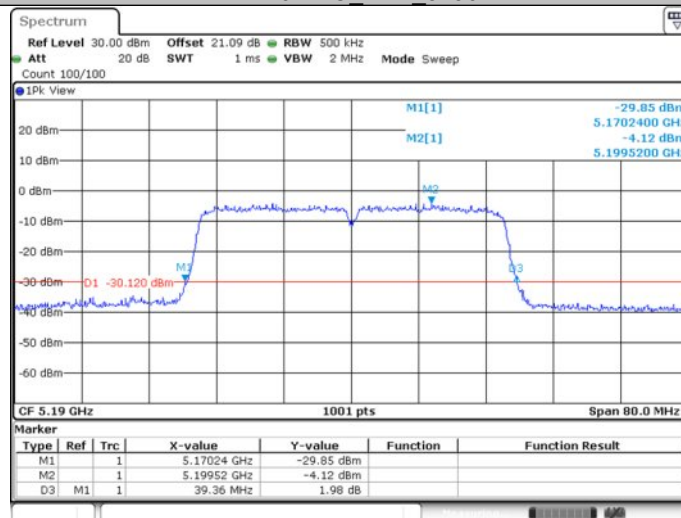
Date: 15.AUG.2025 02:20:06

11N20SISO_Ant1_5825



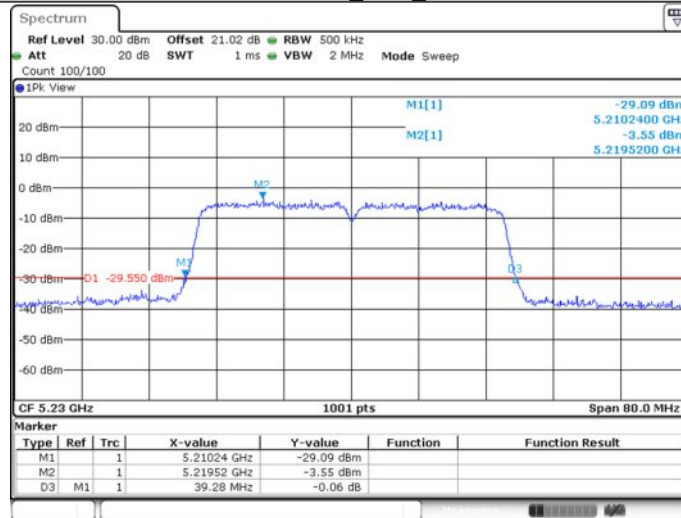
Date: 15.AUG.2025 02:21:42

11N40SISO_Ant1_5190



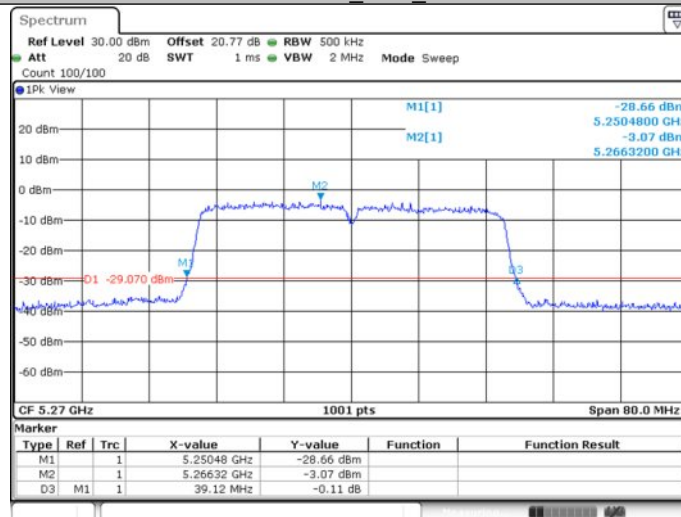
Date: 15.AUG.2025 02:23:06

11N40SISO Ant1 5230



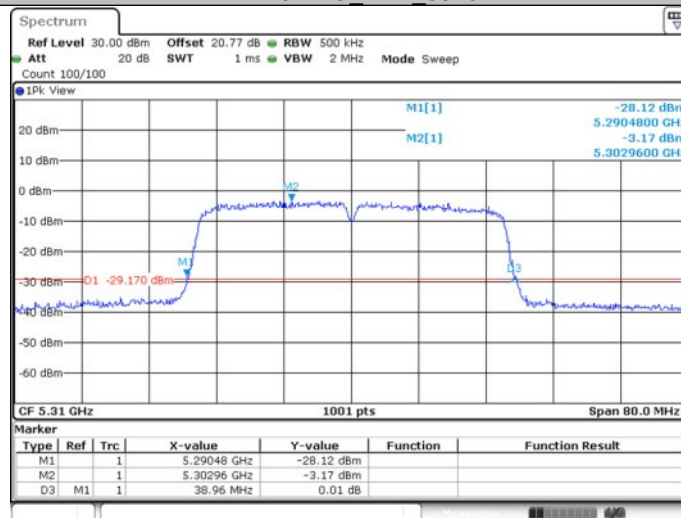
Date: 15.AUG.2025 02:27:25

11N40SISO Ant1 5270



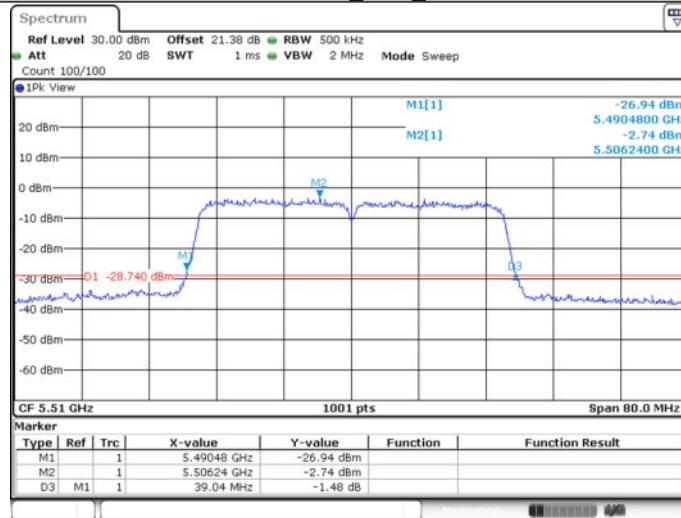
Date: 15.AUG.2025 02:31:30

11N40SISO Ant1 5310



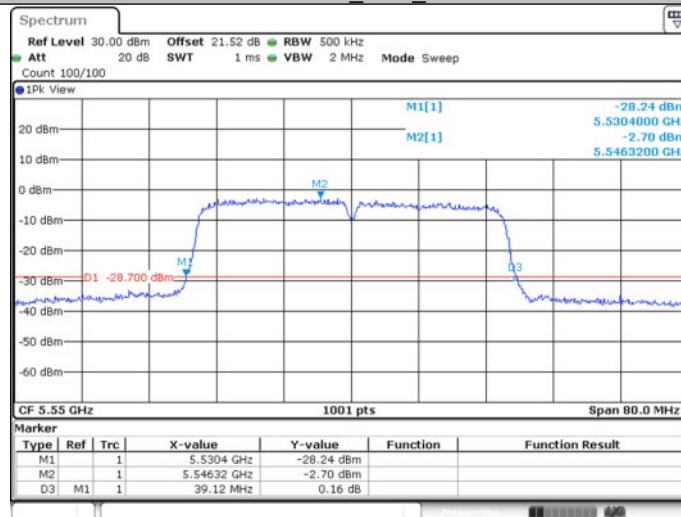
Date: 15.AUG.2025 02:35:35

11N40SISO Ant1 5510



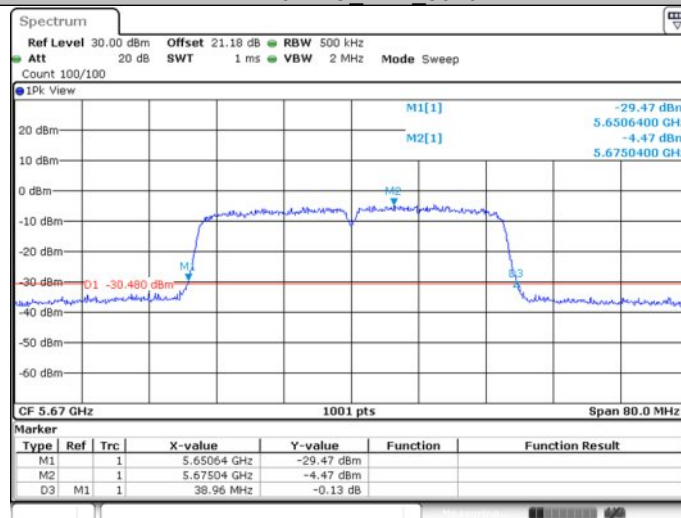
Date: 15.AUG.2025 02:39:52

11N40SISO Ant1 5550



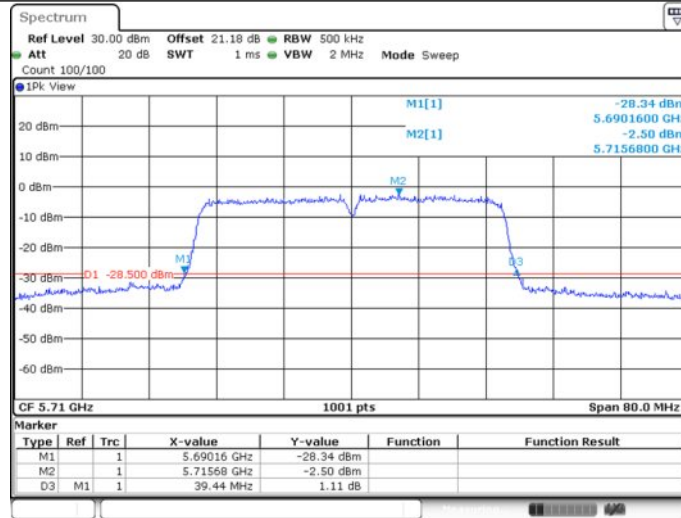
Date: 15.AUG.2025 02:43:57

11N40SISO Ant1 5670



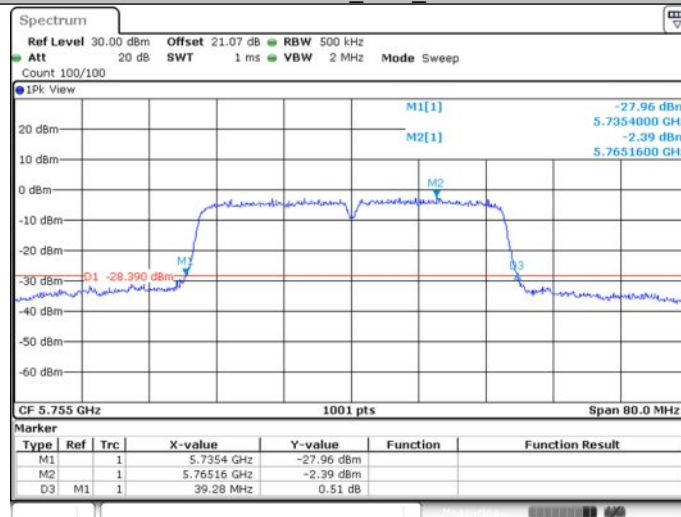
Date: 15.AUG.2025 02:48:38

11N40SISO_Ant1_5710



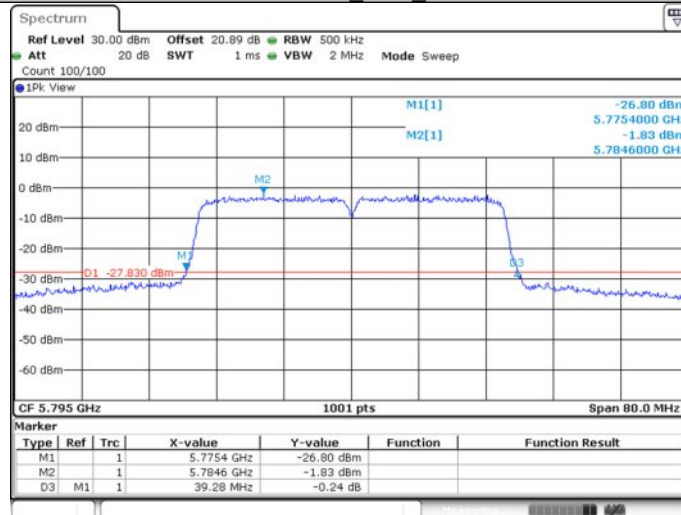
Date: 15.AUG.2025 02:52:39

11N40SISO_Ant1_5755



Date: 15.AUG.2025 02:56:35

11N40SISO_Ant1_5795



Date: 15.AUG.2025 03:00:38

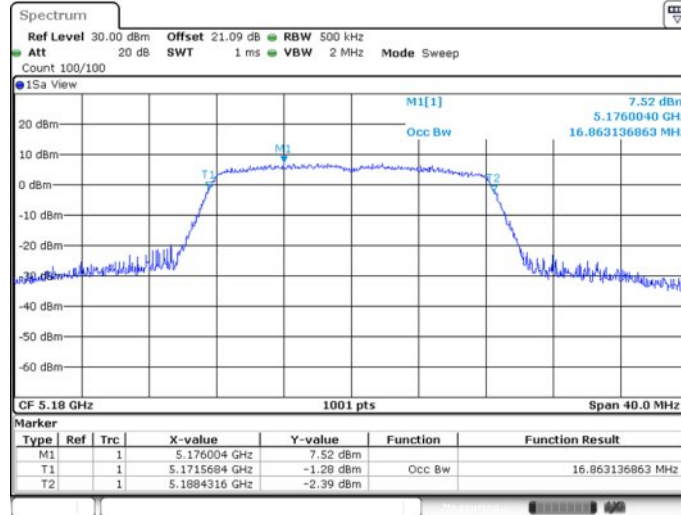
Appendix A.4: Test Results of 99% Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.863	5171.5684	5188.4316	---	---
		5200	16.823	5191.6484	5208.4715	---	---
		5240	16.943	5231.6084	5248.5514	---	---
		5260	16.823	5251.6084	5268.4316	---	---
		5280	16.943	5271.6084	5288.5514	---	---
		5320	16.903	5311.5684	5328.4715	---	---
		5500	16.823	5491.6084	5508.4316	---	---
		5580	16.903	5571.6484	5588.5514	---	---
		5700	16.943	5691.6084	5708.5514	---	---
		5720	16.943	5711.6484	5728.5914	---	---
		5720_UNII-2C	13.352	5711.6484	5725	---	---
		5720_UNII-3	3.591	5725	5728.5914	---	---
		5745	16.983	5736.6084	5753.5914	---	---
		5785	16.983	5776.5684	5793.5514	---	---
		5825	17.103	5816.5285	5833.6314	---	---
11N20SISO	Ant1	5180	17.622	5171.2488	5188.8711	---	---
		5200	17.582	5191.3287	5208.9111	---	---
		5240	17.662	5231.2887	5248.9510	---	---
		5260	17.542	5251.2887	5268.8312	---	---
		5280	17.662	5271.2488	5288.9111	---	---
		5320	17.662	5311.2088	5328.8711	---	---
		5500	17.662	5491.2088	5508.8711	---	---
		5580	17.622	5571.2887	5588.9111	---	---
		5700	17.702	5691.2088	5708.9111	---	---
		5720	17.662	5711.2887	5728.9510	---	---
		5720_UNII-2C	13.711	5711.2887	5725	---	---
		5720_UNII-3	3.951	5725	5728.9510	---	---
		5745	17.742	5736.2088	5753.9510	---	---
		5785	17.702	5776.2088	5793.9111	---	---
		5825	17.822	5816.1688	5833.9910	---	---
11N40SISO	Ant1	5190	36.204	5171.9381	5208.1419	---	---
		5230	36.204	5211.8581	5248.0619	---	---
		5270	36.124	5251.9381	5288.0619	---	---
		5310	35.884	5292.0180	5327.9021	---	---
		5510	36.204	5491.8581	5528.0619	---	---
		5550	36.044	5531.9381	5567.9820	---	---
		5670	36.044	5652.0180	5688.0619	---	---
		5710	36.124	5691.9381	5728.0619	---	---
		5710_UNII-2C	33.062	5691.9381	5725	---	---
		5710_UNII-3	3.062	5725	5728.0619	---	---
		5755	36.124	5736.9381	5773.0619	---	---
		5795	36.204	5776.9381	5813.1419	---	---

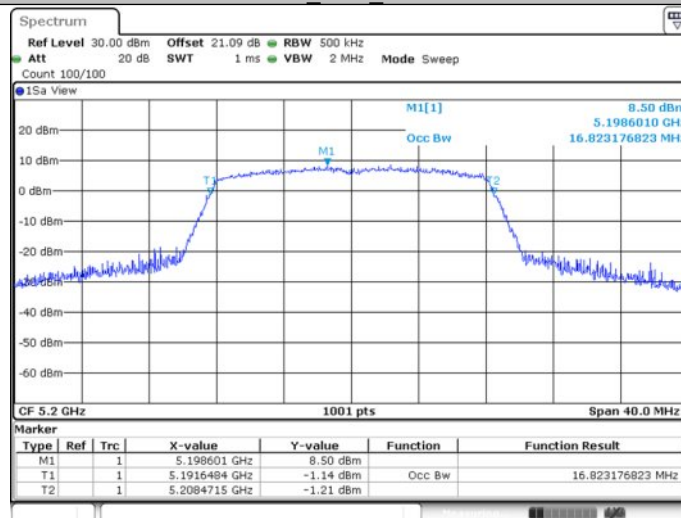
Test Graphs

11A_Ant1_5180



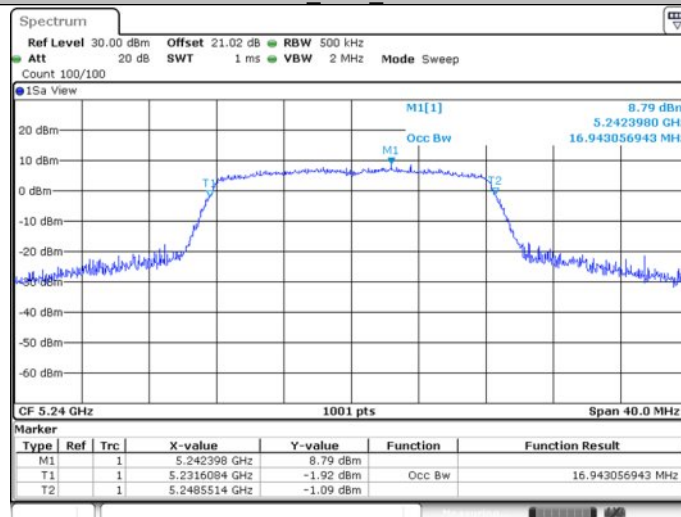
Date: 15.AUG.2025 01:01:33

11A_Ant1_5200



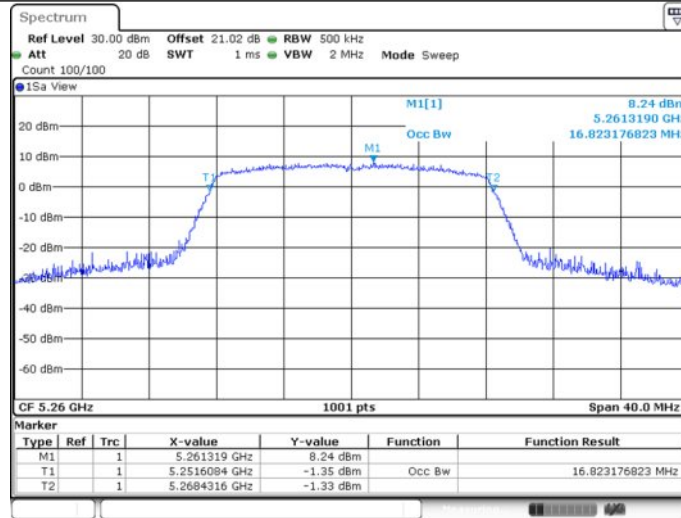
Date: 15.AUG.2025 01:07:08

11A_Ant1_5240



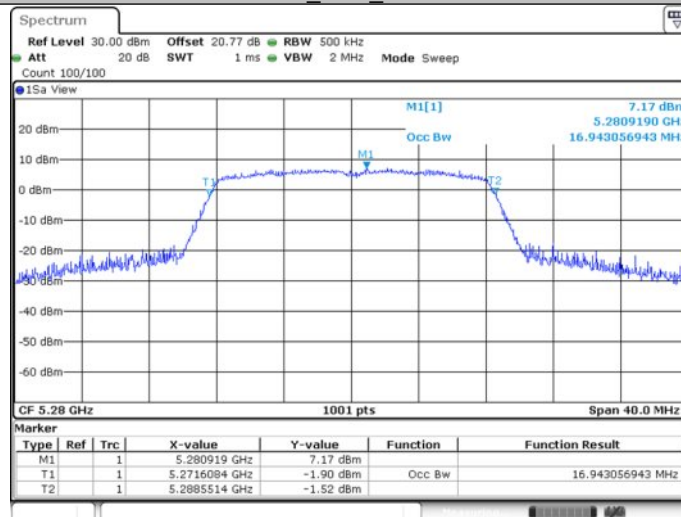
Date: 15.AUG.2025 01:11:39

11A_Ant1_5260



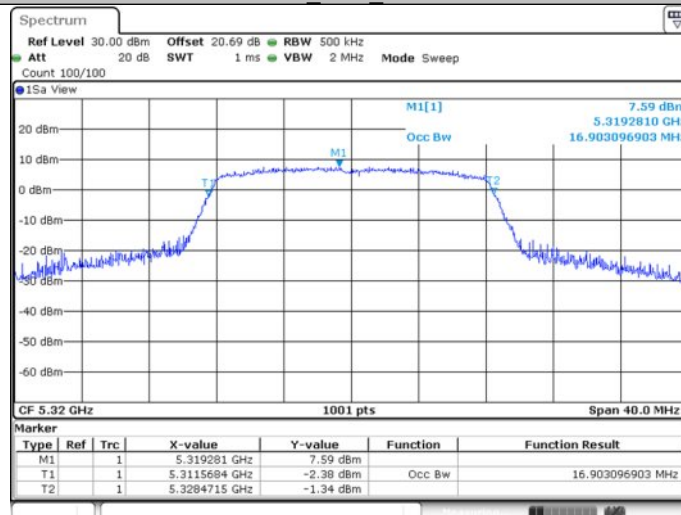
Date: 15.AUG.2025 01:16:26

11A_Ant1_5280



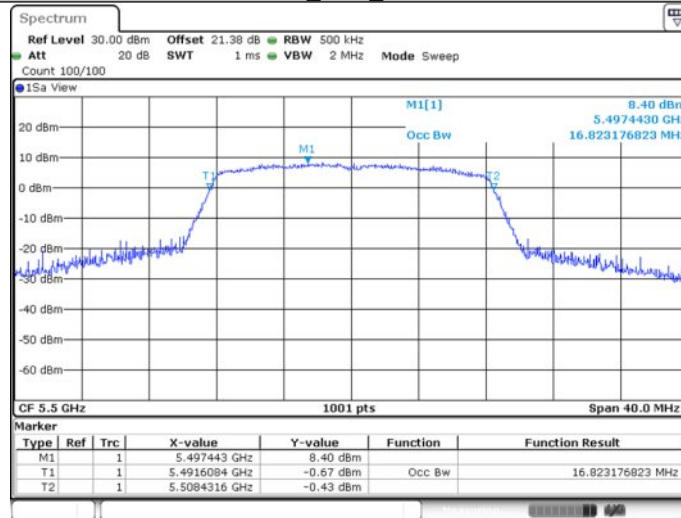
Date: 15.AUG.2025 01:20:29

11A_Ant1_5320



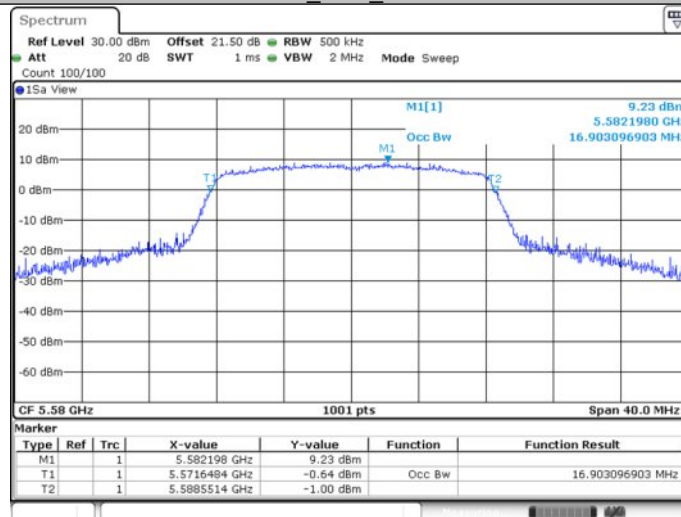
Date: 15.AUG.2025 01:24:50

11A_Ant1_5500



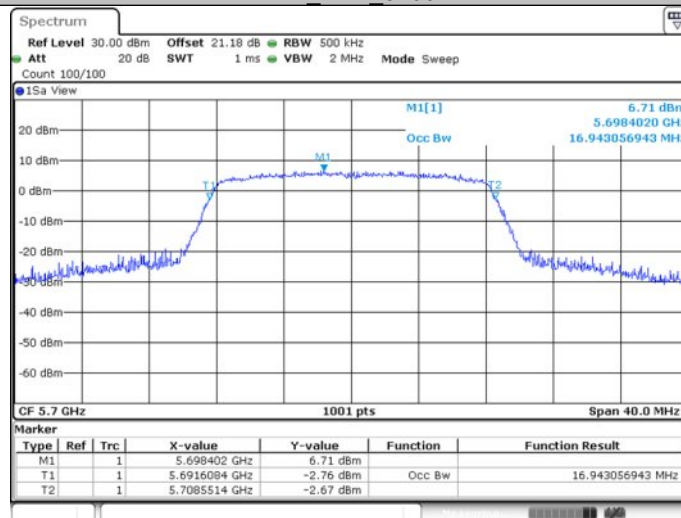
Date: 15.AUG.2025 01:28:57

11A_Ant1_5580



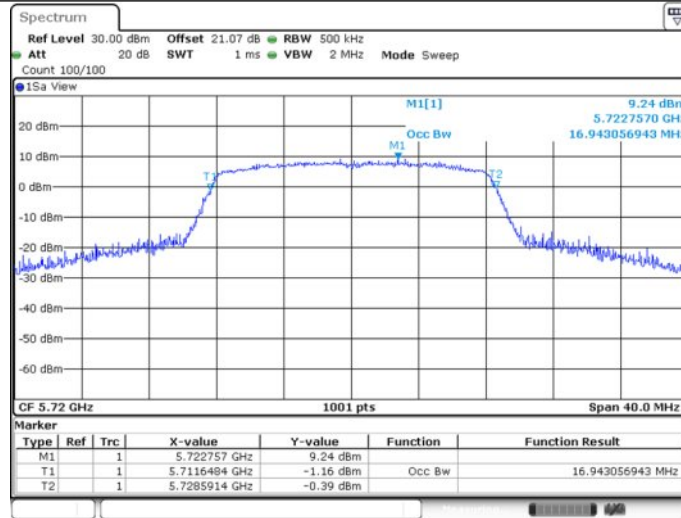
Date: 15.AUG.2025 01:33:50

11A_Ant1_5700



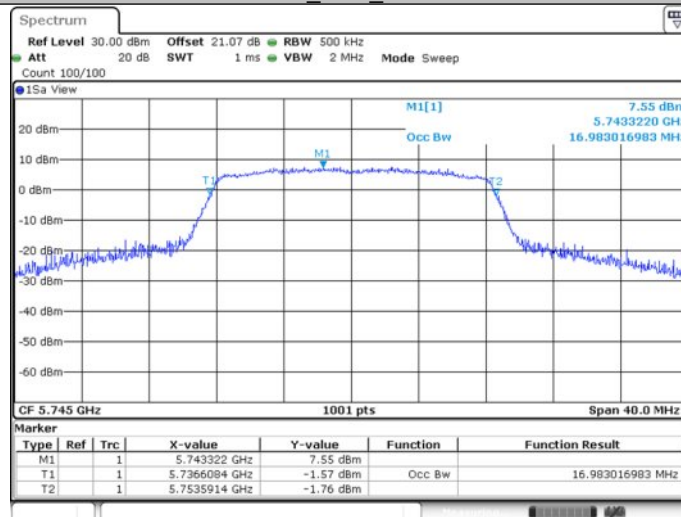
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11A_Ant1_5720



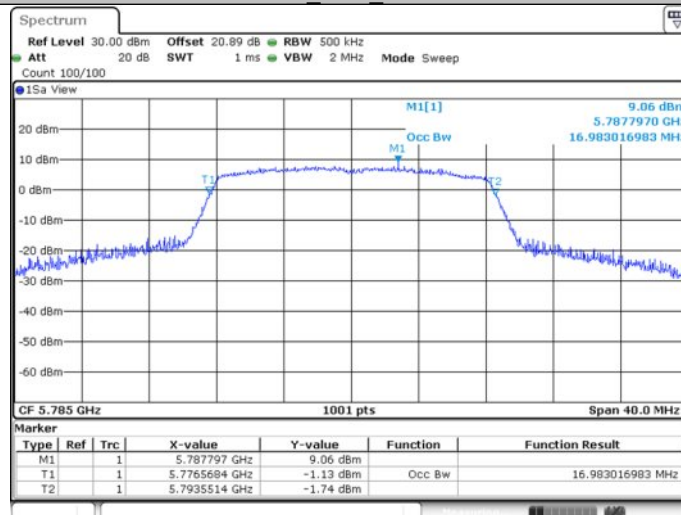
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11A_Ant1_5745



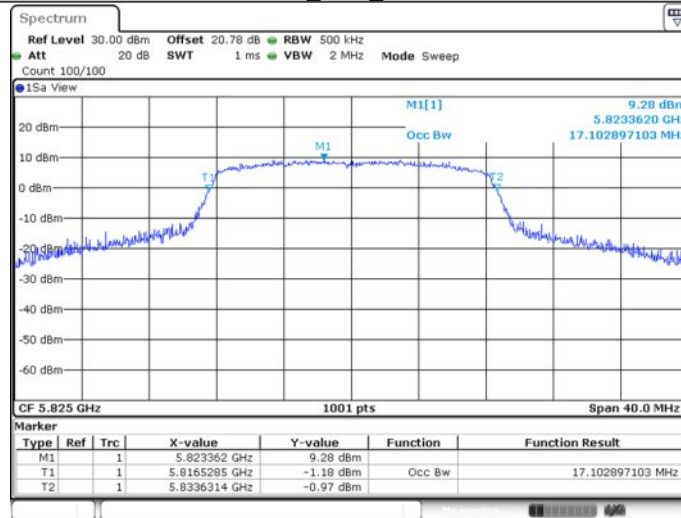
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11A_Ant1_5785



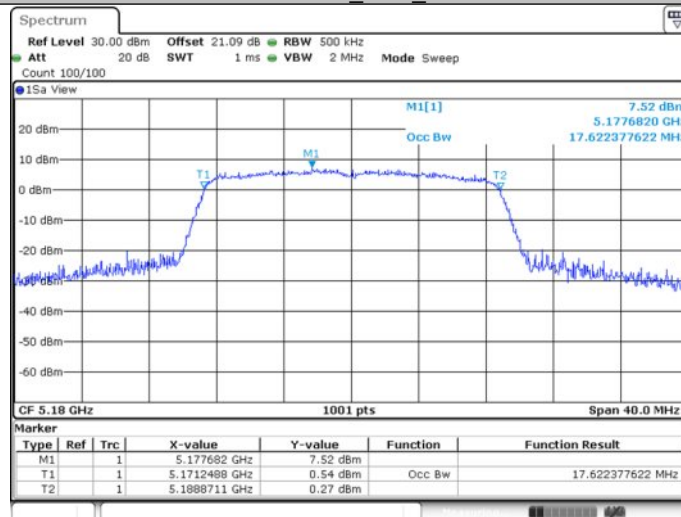
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11A_Ant1_5825



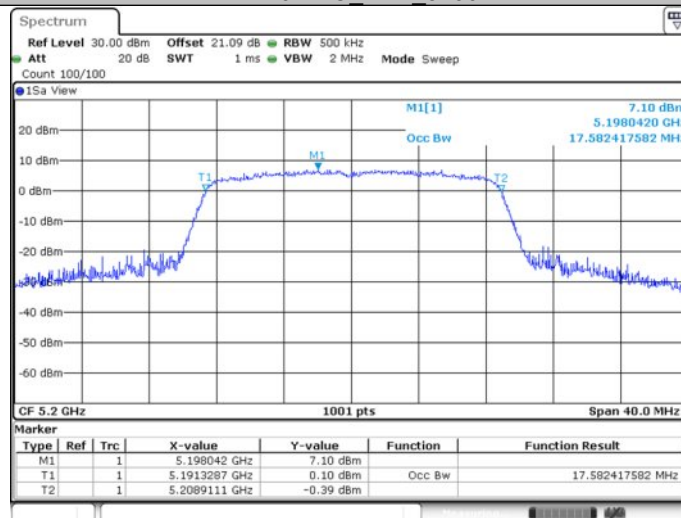
Date: 15.AUG.2025 02:00:08

11N20SISO_Ant1_5180



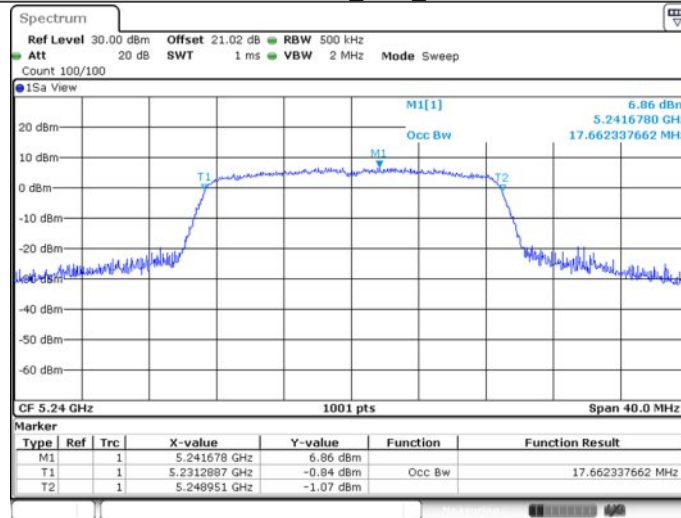
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11N20SISO_Ant1_5200



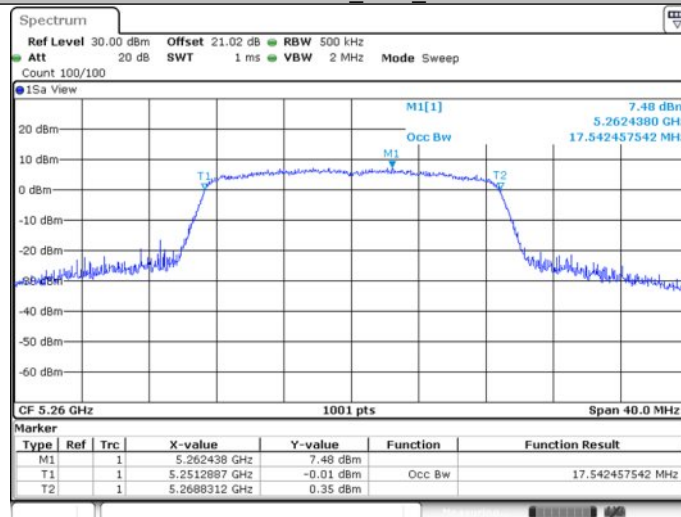
Date: 15.AUG.2025 02:06:23

11N20SISO Ant1 5240



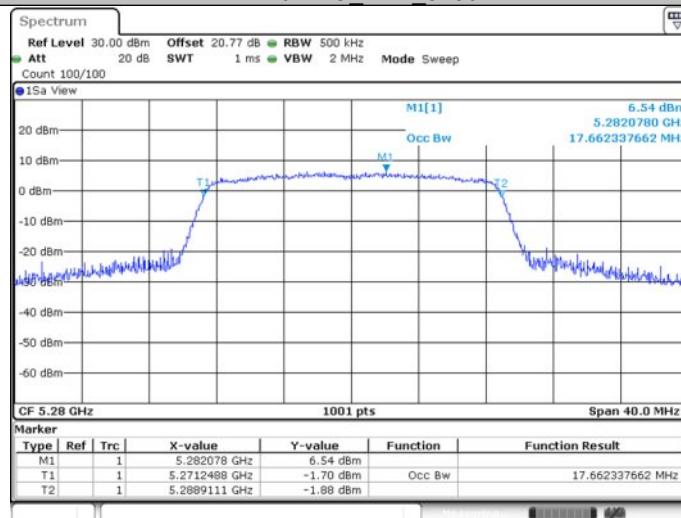
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11N20SISO Ant1 5260



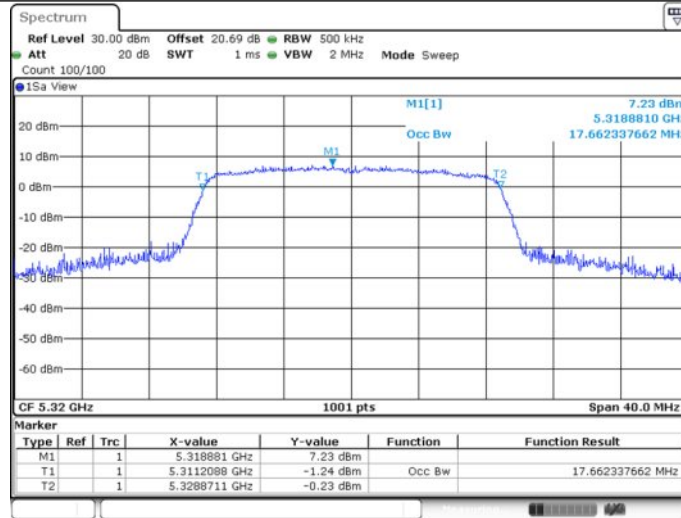
Date: 15.AUG.2025 02:09:25

11N20SISO Ant1 5280



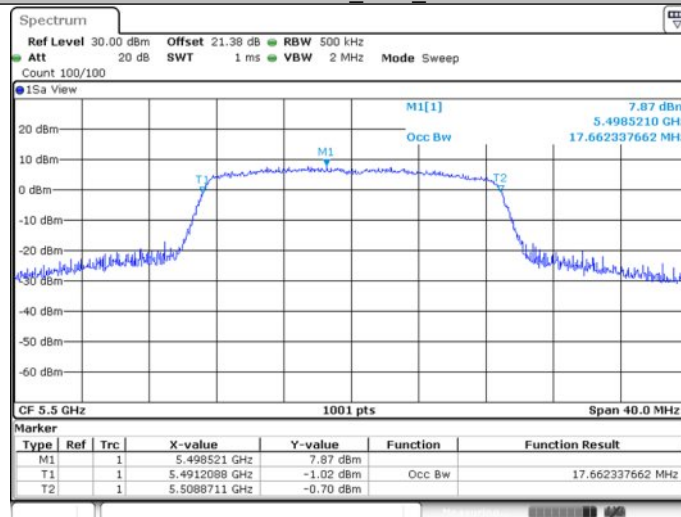
Date: 15.AUG.2025 02:11:11

11N20SISO Ant1 5320



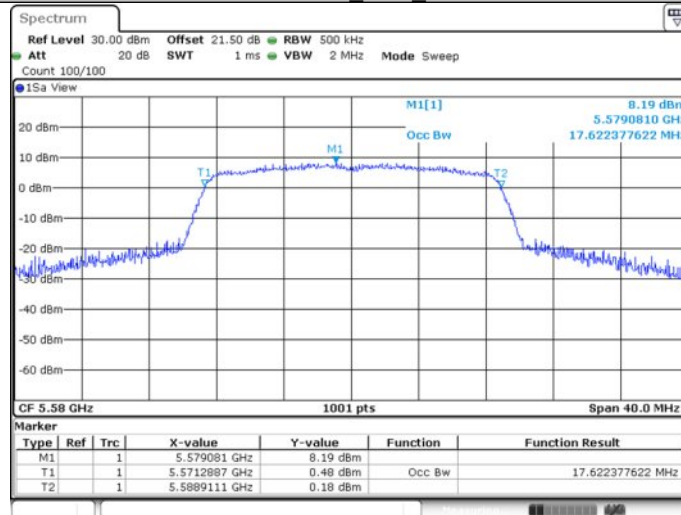
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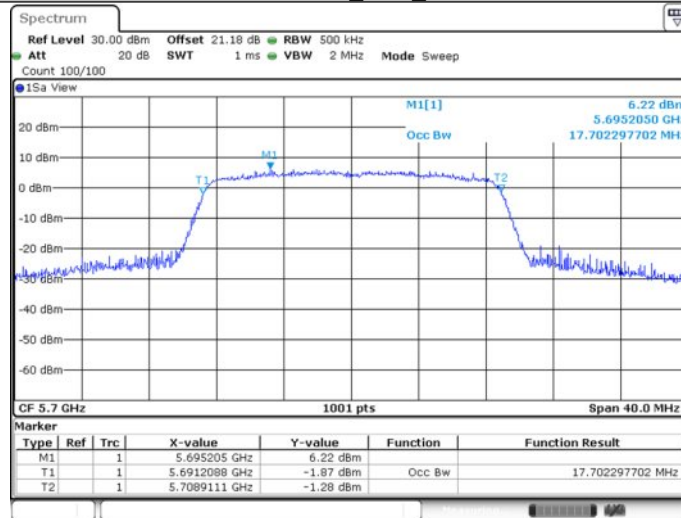
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11N20SISO Ant1 5580



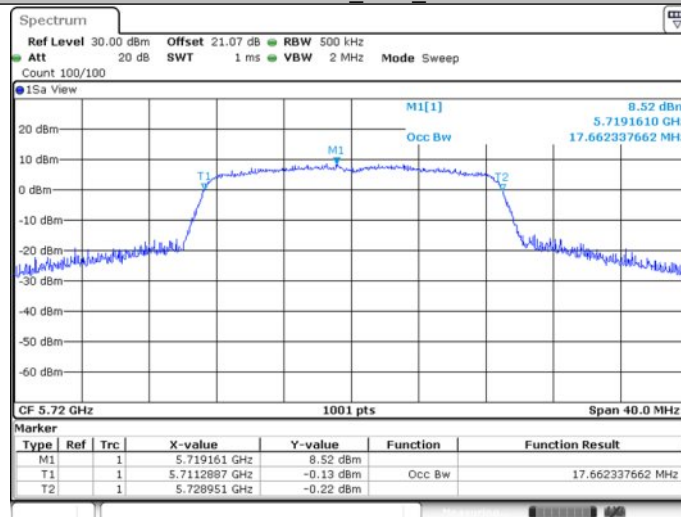
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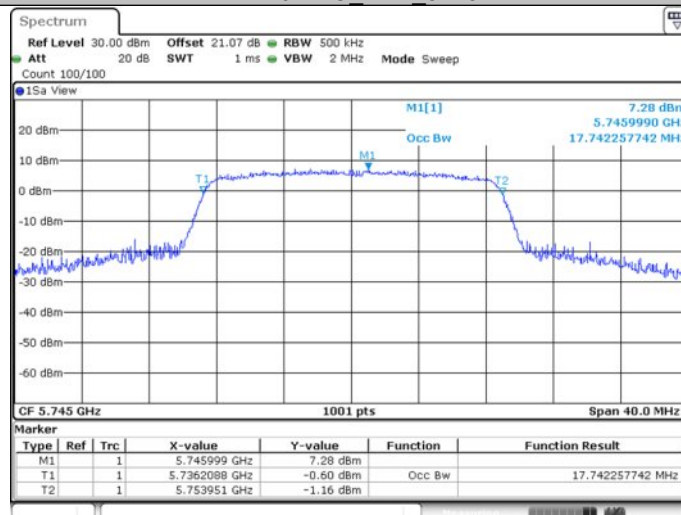
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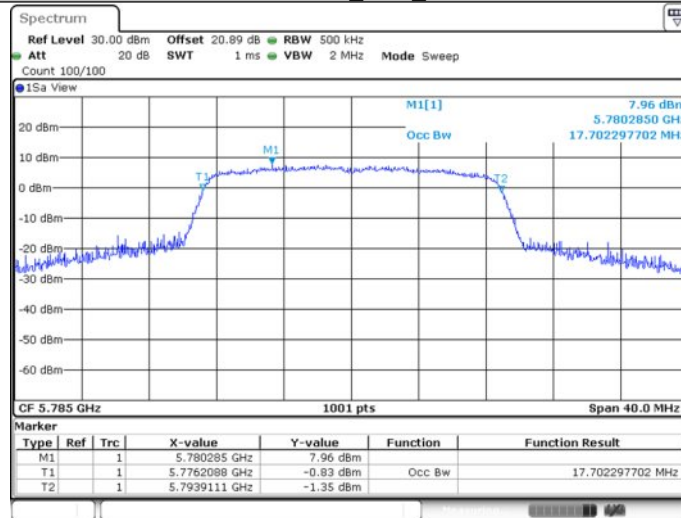
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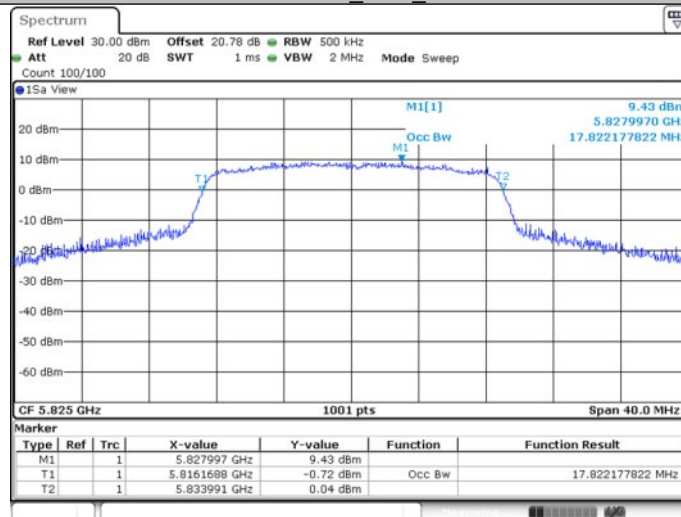
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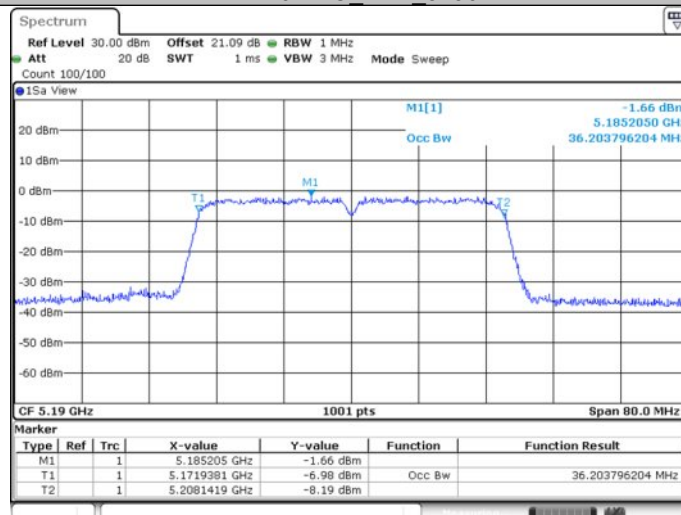
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11N20SISO Ant1 5825



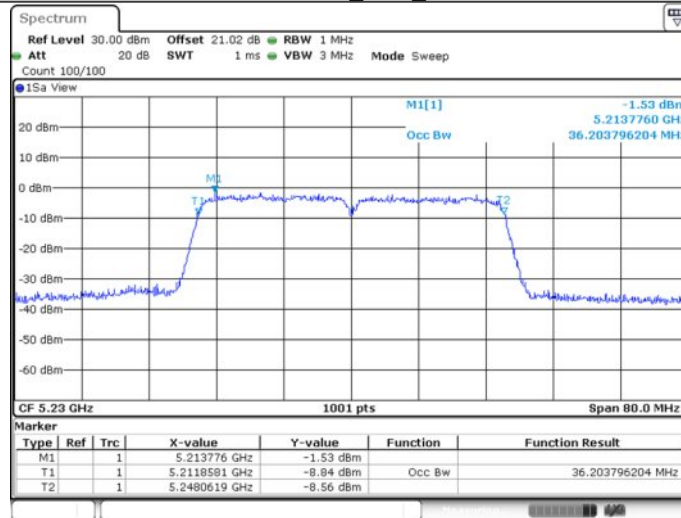
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11N40SISO Ant1 5190



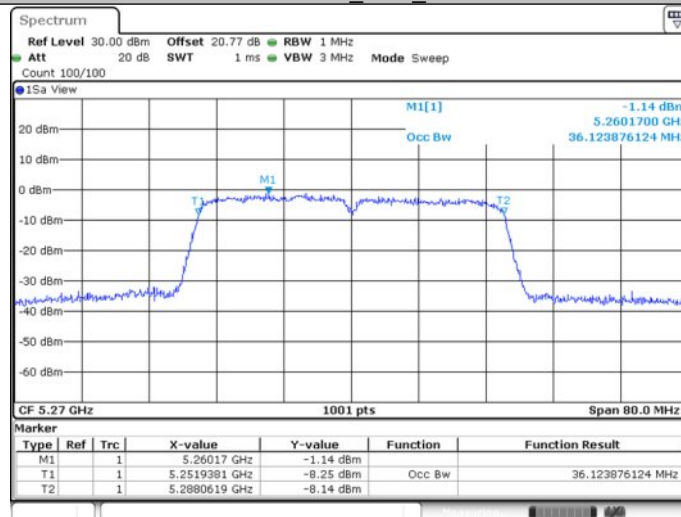
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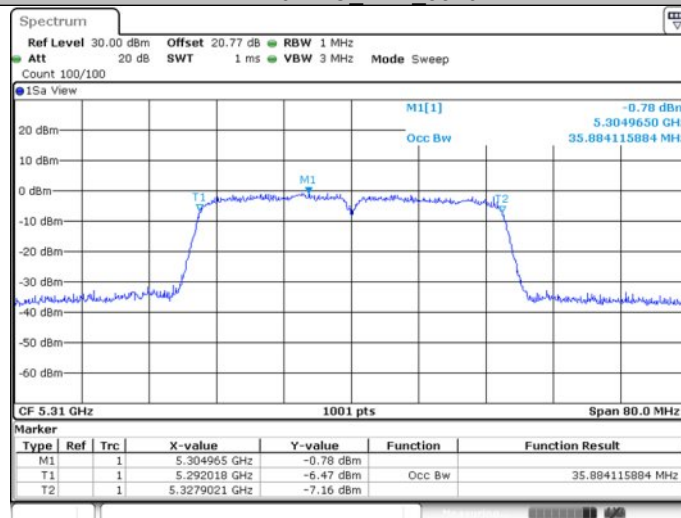
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11N40SISO_Ant1_5270



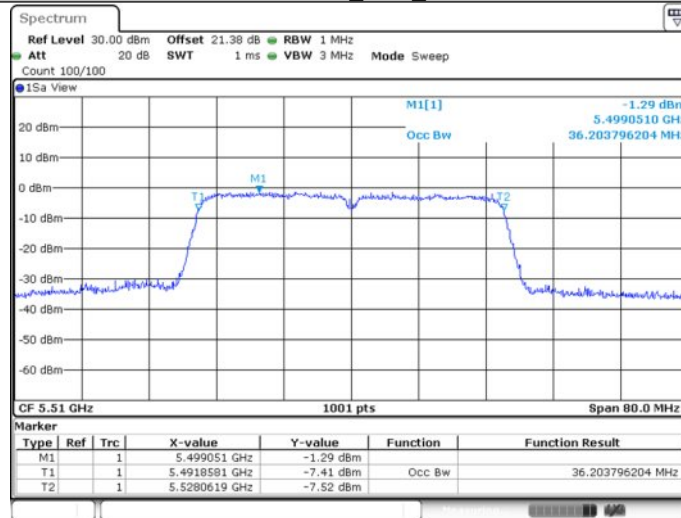
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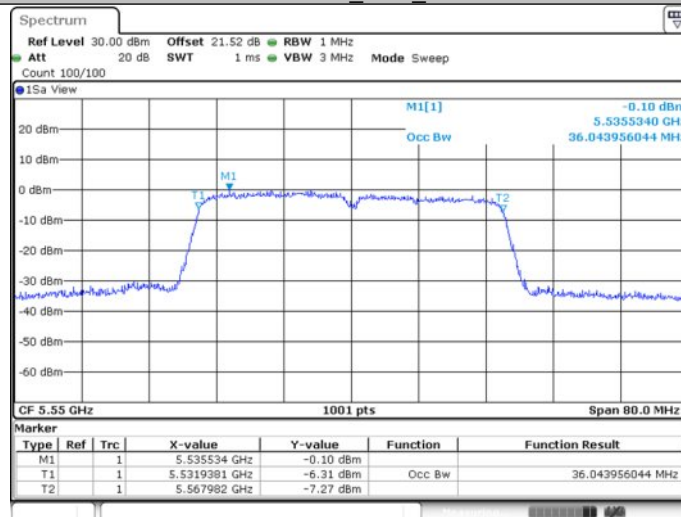
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11N40SISO Ant1 5510



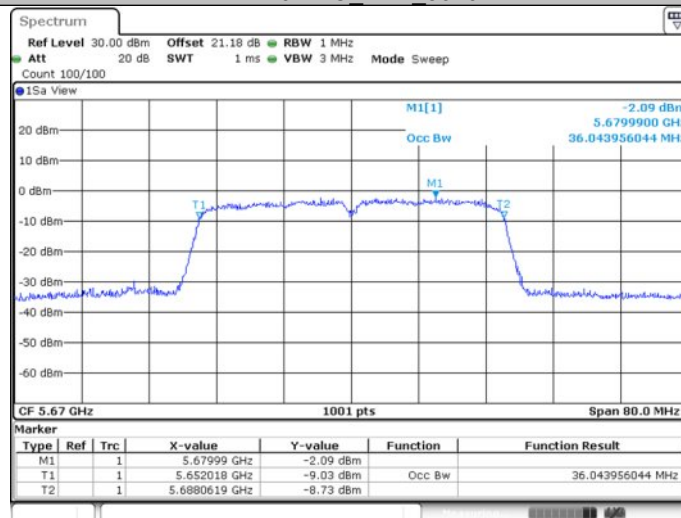
Date: 15.AUG.2025 02:40:06

11N40SISO Ant1 5550



Date: 15.AUG.2025 02:44:10

11N40SISO Ant1 5670



Date: 15.AUG.2025 02:48:51