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Test Report

Report No.: CQASZ20250100185E-04
Applicant: Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Applicant: 24th Floor, Baotai Building, 182 Design Park, No. 182, Bulan Road, Li Lang Community, Nanwan Street, Longgang District, Shenzhen
Equipment Under Test (EUT):
Product: Mini PC
Model No.: T2, T3, T4, T5, T6, T7, T8, T9, S1, S2
Test Model No.: T2
Brand Name: FIREBAT
FCC ID: 2BB7B-T2
Standards: 47 CFR Part 15, Subpart E
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Date of Receipt: 2025-01-23
Date of Test: 2025-01-23 to 2025-06-10
Date of Issue: 2025-06-10
Test Result: **PASS***

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

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250100185E-04	Rev.01	Initial report	2025-06-10

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013; KDB789033	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.207	ANSI C63.10-2013; KDB789033	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.407 (a)	ANSI C63.10-2013; KDB789033	PASS
Emission Bandwidth	47 CFR Part 15 Subpart C Section 15.407 (a)(e)	ANSI C63.10-2013; KDB789033	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	ANSI C63.10-2013; KDB789033	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.209 & 15.407(b)	ANSI C63.10-2013; KDB789033	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2013; KDB789033	PASS
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (c)	47 CFR Part 15 Subpart E	PASS
Radiated Spurious Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	ANSI C63.10-2013; KDB789033	PASS

Remark:

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

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

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

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

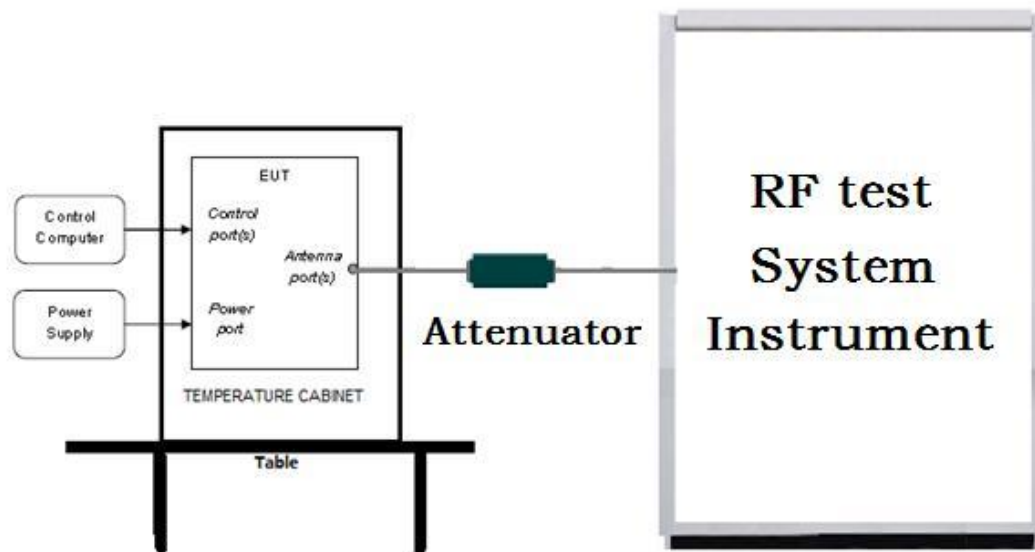
3 Content

	Page
1 VERSION	2
2 TEST SUMMARY	3
3 CONTENT	4
4 TEST REQUIREMENT	5
4.1 TEST SETUP	5
4.1.1 For Conducted test setup	5
4.1.2 For Radiated Emissions test setup	5
4.1.3 For Conducted Emissions test setup	6
4.2 TEST ENVIRONMENT	6
4.3 TEST CONDITION	7
5 GENERAL INFORMATION	9
5.1 CLIENT INFORMATION	9
5.2 GENERAL DESCRIPTION OF EUT	9
5.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	10
5.4 DESCRIPTION OF SUPPORT UNITS	11
5.5 TEST CONFIGURATION	12
5.6 TEST LOCATION	13
5.7 TEST FACILITY	13
5.8 DEVIATION FROM STANDARDS	13
5.9 ABNORMALITIES FROM STANDARD CONDITIONS	13
5.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER	13
5.11 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	13
6 EQUIPMENT LIST	14
7 RADIO TECHNICAL REQUIREMENTS SPECIFICATION	15
Appendix A): Emission Bandwidth	16
Appendix B): Maximum Conduct Output Power	50
Appendix C): Maximum Power Spectral Density	85
Appendix D): Band Edge Measurements	112
7.1.1 Test Result B1/2/3	114
7.1.2 Test Result B4	114
7.1.3 Test Graphs B1/2/3	116
7.1.4 Test Graphs B4	124
Appendix E): Frequency Stability	129
Appendix F): Antenna Requirement	131
Appendix G): Operation in the absence of information to the transmit	132
Appendix H): AC Power Line Conducted Emission	133
Appendix I): Restricted bands around fundamental frequency (Radiated Emission)	136
Appendix J): Radiated Spurious Emissions	143
8 PHOTOGRAPHS - EUT TEST SETUP	156
8.1 RADIATED SPURIOUS EMISSION	156
8.2 CONDUCTED EMISSION	157
8.3 RF CONDUCTED MEASUREMENT	158
9 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	159

4 Test Requirement

4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

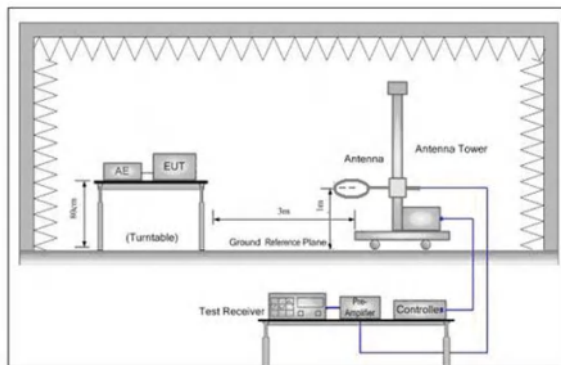


Figure 1. Below 30MHz

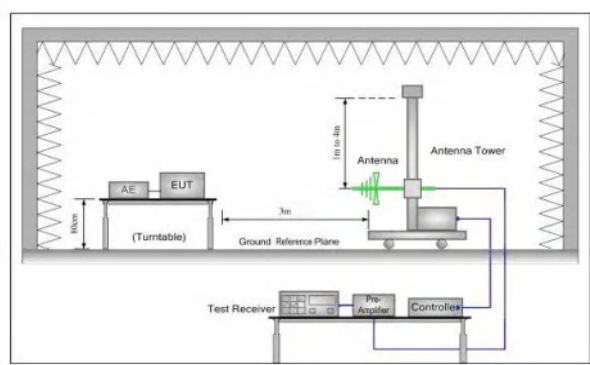


Figure 2. 30MHz to 1GHz

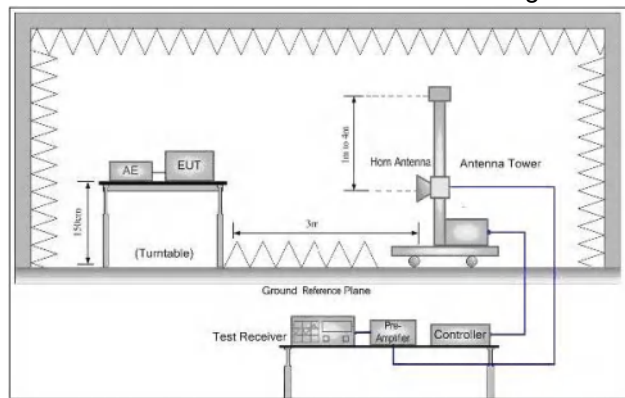
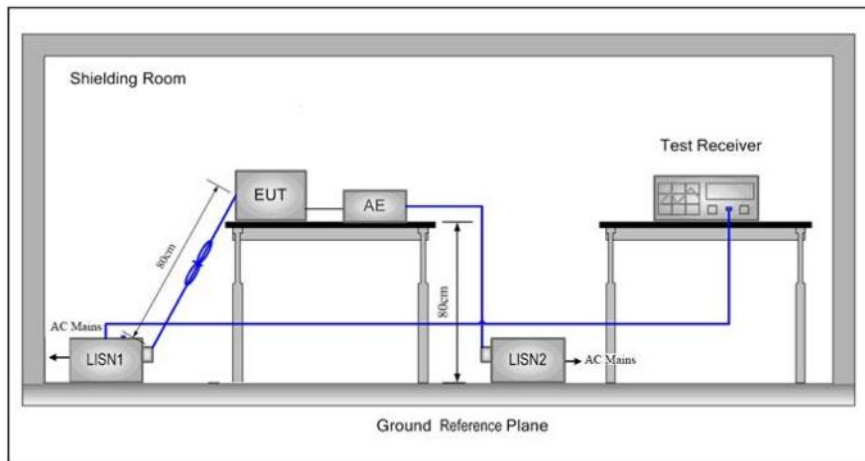


Figure 3. Above 1GHz

4.1.3 For Conducted Emissions test setup

Conducted Emissions setup



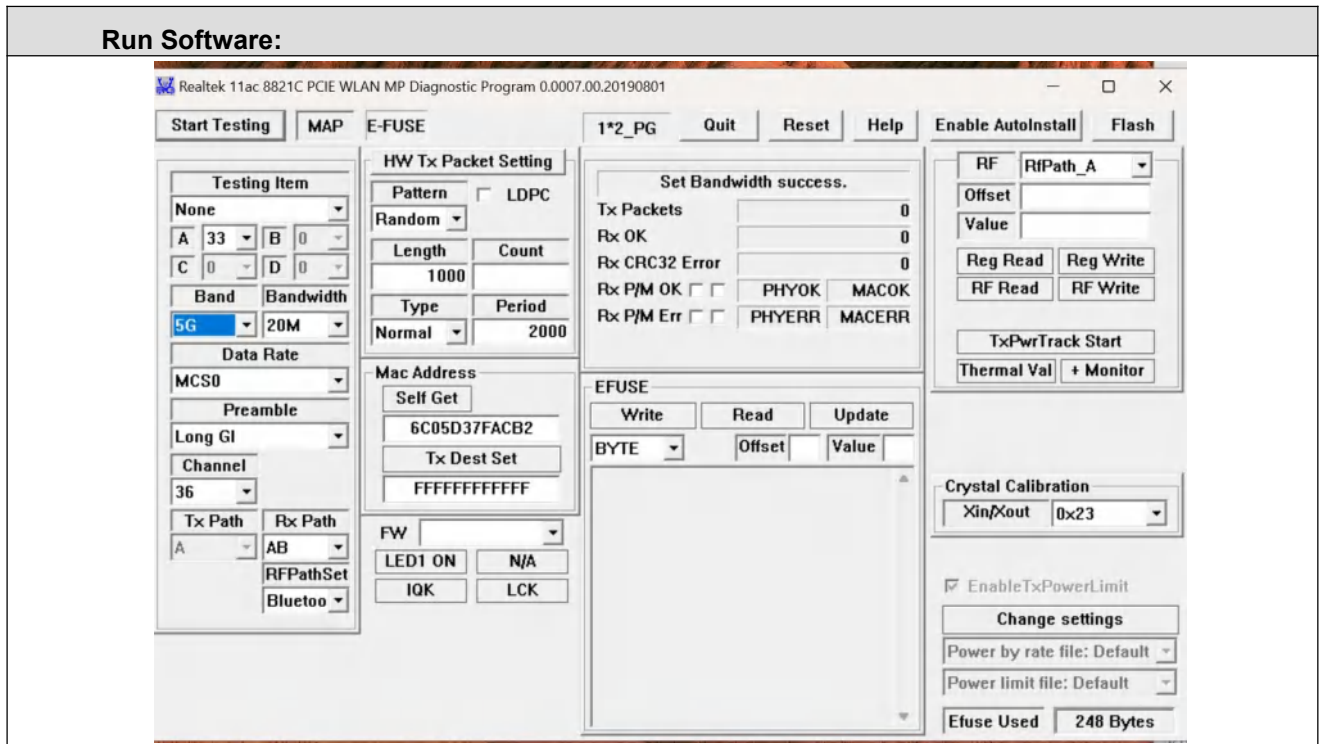
4.2 Test Environment

Operating Environment:		
Conducted Emissions:		
Temperature:	25.6 °C	
Humidity:	60 % RH	
Atmospheric Pressure:	1009 mbar	
Radiated Emissions:		
Temperature:	25.5 °C	
Humidity:	54 % RH	
Atmospheric Pressure:	1009mbar	
Radio conducted item test (RF Conducted test room):		
Temperature:	25.3 °C	
Humidity:	50 % RH	
Atmospheric Pressure:	1009 mbar	
Test Condition	Temperature (°C)	Voltage (V)
TN/VN	+15 to +35	12
TL/VL	-30	10.8
TH/VL	50	10.8
TL/VH	-30	13.2
TH/VH	50	13.2
Remark:		
1)The EUT just work in such extreme temperature of -30 °C to 50 °C and the extreme voltage of 6.84V to 8.36V, so here the EUT is tested in the temperature of -30 °C to 50 °C and the voltage of 6.84V to 8.36V.		
2)VN: Normal Voltage; TN: Normal Temperature;		
TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;		
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.		

4.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac(20M)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11n/ac(80M)	5150MHz ~5250 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A
802.11a/n/ac(20M)	5250MHz ~5350 MHz	Channel 52	Channel 56	Channel 64
		5260MHz	5280MHz	5320MHz
802.11n/ac(40M)	5250MHz ~5350 MHz	Channel 54	N/A	Channel 62
		5270MHz	N/A	5310MHz
802.11n/ac(80M)	5250MHz ~5350 MHz	N/A	Channel 58	N/A
		N/A	5290MHz	N/A
802.11a/n/ac(20M)	5470MHz ~5725 MHz	Channel 100	Channel 116	Channel 140
		5500MHz	5580MHz	5700MHz
802.11n/ac(40M)	5470MHz ~5725 MHz	Channel 102	Channel 110	Channel 134
		5510MHz	5550MHz	5670MHz
802.11n/ac(80M)	5470MHz ~5725 MHz	N/A	Channel 106	N/A
		N/A	5530MHz	N/A
802.11a/n/ac(20M)	5725MHz ~5850 MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac(40M)	5725MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz
802.11n/ac(80M)	5725MHz ~5850 MHz	N/A	Channel 155	N/A
		N/A	5775MHz	N/A



Test mode:

Pre-scan under all rate at lowest channel for Ant1

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M); MCS0 is the worst case of 802.11n (20M); MCS0 is the worst case of 802.11ac (20M); MCS0 is the worst case of 802.11n(40M); MCS0 is the worst case of 802.11ac (40M); MCS0 is the worst case of 802.11ac (80M)

5 General Information

5.1 Client Information

Applicant:	Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Applicant:	24th Floor, Baotai Building, 182 Design Park, No. 182, Bulan Road, Li Lang Community, Nanwan Street, Longgang District, Shenzhen
Manufacturer:	Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Manufacturer:	24th Floor, Baotai Building, 182 Design Park, No. 182, Bulan Road, Li Lang Community, Nanwan Street, Longgang District, Shenzhen
Factory:	Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Factory:	24th Floor, Baotai Building, 182 Design Park, No. 182, Bulan Road, Li Lang Community, Nanwan Street, Longgang District, Shenzhen

5.2 General Description of EUT

Product Name:	Mini PC
Model No.:	T2, T3, T4, T5, T6, T7, T8, T9, S1, S2
Test Model No.:	T2
Trade Mark:	FIREBAT
Software Version:	P0_AK_10_0108
Hardware Version:	P0AK10N150-V02X
EUT Power Supply:	Power supply DC12V form adapter Adapter: Model:AD0301-1202500UB Input:100-2240V~50-60Hz 0.8A Max Output:12V 2.5A 30.0W
EUT Supports Radios application:	U-NII-1: 5.15-5.25GHz; U-NII-2a: 5.25-5.35GHz U-NII-2c: 5.47-5.725GHz; U-NII-3: 5.725-5.850GHz
EUT Type:	Client devices

5.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz IEEE802.11n/ac(40M): 5150MHz ~5250 MHz IEEE802.11n/ac(80M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz IEEE802.11n/ac(40M): 5250MHz ~5350 MHz IEEE802.11n/ac(80M): 5250MHz ~5350 MHz IEEE 802.11a/n/ac(20M): 5470MHz ~5725 MHz IEEE802.11n/ac(40M): 5470MHz ~5725 MHz IEEE802.11n/ac(80M): 5470MHz ~5725 MHz IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz IEEE802.11n/ac(40M): 5725MHz ~5850 MHz IEEE802.11n/ac(80M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11n/ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350MHz/ 4 channel IEEE 802.11n/ac(40M): 5250MHz ~5350MHz/ 2 channel IEEE 802.11n/ac(80M): 5250MHz ~5350MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5470MHz ~5725MHz/ 8 channel IEEE 802.11n/ac(40M): 5470MHz ~5725MHz/ 3 channel IEEE 802.11n/ac(80M): 5470MHz ~5725MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11n/ac(80M): 5725MHz ~5850MHz/ 1 channel
Type of Modulation:	OFDM
Sample Type:	☒ Mobile ☐ Portable
Test Software of EUT:	Serial
Antenna Type:	FPC antenna
Antenna gain:	3.36dBi
Cable loss:	1.0 dB

Operation Frequency each of channel

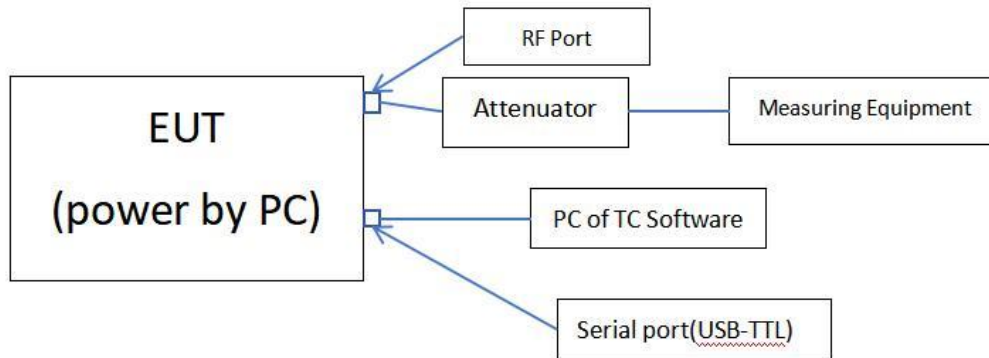
(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210	/	/
(U-NII-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290	/	/
(U-NII-2C) 5500MHz-5700MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	104	5520
	108	5540	112	5560
	116	5580	132	5660
	136	5680	140	5700
	/	/	/	/
40MHz	102	5510	110	5550
	134	5670	/	/
80MHz	106	5530	/	/
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	5825	/	/
40MHz	151	5755	159	5795
80MHz	165	5775	/	/

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

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

5.5 Test configuration



5.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

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

5.7 Test Facility

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer

None.

5.11 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	3×10^{-8}
2	RF power, conducted	0.86dB
3	Radiated Spurious emission test	5.12dB (Below 1GHz)
		4.6dB (Above 1GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.8°C
6	Humidity test	2.0%
7	DC power voltages	0.5%

6 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2024/9/2	2025/9/1
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2024/9/2	2025/9/1
Power meter	R&S	NRVD	CQA-029	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2	2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2	2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2	2025/9/1

Test software:

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

7 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15E	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E

Appendix A): Emission Bandwidth

26dB Emission bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II C 1

6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

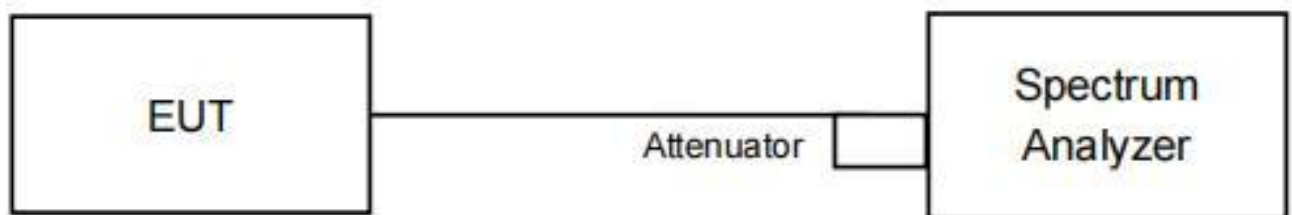
Test Method: KDB 789033 D02 II C 2

Limit: ≥ 500 kHz

Test Procedure:

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Test Setup Diagram



Result Table

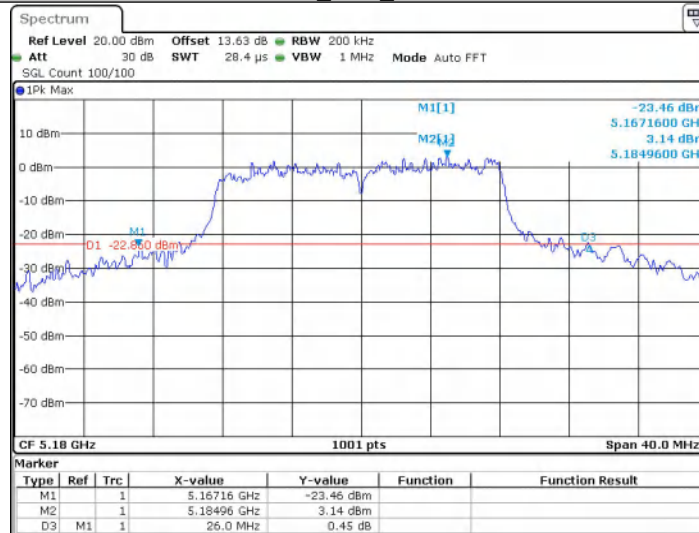
TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	5180	26.00	5167.16	5193.16
	5200	24.96	5186.08	5211.04
	5240	20.88	5230.48	5251.36
	5260	20.28	5249.56	5269.84
	5280	19.88	5269.80	5289.68
	5320	19.24	5309.96	5329.20
	5500	20.04	5489.88	5509.92
	5580	20.32	5569.96	5590.28
	5700	27.64	5685.24	5712.88
	5745	20.44	5734.00	5754.44
	5785	19.56	5775.52	5795.08
	5825	21.60	5814.16	5835.76
11N20SISO	5180	25.52	5169.60	5195.12
	5200	25.84	5184.16	5210.00
	5240	21.68	5229.56	5251.24
	5260	20.08	5249.88	5269.96
	5280	20.84	5269.32	5290.16
	5320	20.40	5309.52	5329.92
	5500	20.92	5489.56	5510.48
	5580	21.00	5569.68	5590.68
	5700	20.56	5689.56	5710.12
	5745	20.04	5734.56	5754.60
	5785	20.16	5775.24	5795.40
	5825	22.56	5813.12	5835.68
11N40SISO	5190	40.08	5169.68	5209.76
	5230	40.96	5209.92	5250.88
	5270	41.44	5248.72	5290.16
	5310	40.16	5290.00	5330.16
	5510	43.20	5488.64	5531.84
	5550	40.56	5529.52	5570.08
	5670	38.08	5650.88	5688.96
	5755	41.36	5733.32	5774.68
	5795	38.72	5775.72	5814.44
11AC20SISO	5180	23.40	5167.96	5191.36

		5200	21.04	5188.96	5210.00
		5240	20.68	5230.08	5250.76
		5260	19.80	5249.72	5269.52
		5280	20.64	5269.64	5290.28
		5320	19.72	5310.20	5329.92
		5500	20.76	5489.40	5510.16
		5580	20.92	5569.88	5590.80
		5700	26.72	5685.84	5712.56
		5745	20.36	5734.56	5754.92
		5785	20.36	5775.28	5795.64
		5825	21.48	5814.24	5835.72
	11AC40SISO	5190	41.20	5169.84	5211.04
		5230	42.16	5209.76	5251.92
		5270	41.28	5248.16	5289.44
		5310	39.28	5290.48	5329.76
		5510	41.44	5490.00	5531.44
		5550	40.00	5530.24	5570.24
		5670	38.08	5650.88	5688.96
		5755	40.32	5733.88	5774.20
		5795	38.96	5775.40	5814.36
	11AC80SISO	5210	79.84	5170.16	5250.00
		5290	79.20	5250.16	5329.36
		5530	79.20	5490.64	5569.84
		5775	89.44	5725.56	5815.00

TestMode	Freq(MHz)	6db EBW [MHz]	Limit[MHz]	Verdict
11A	5745	16.20	0.5	PASS
	5785	12.32	0.5	PASS
	5825	16.08	0.5	PASS
11N20SISO	5745	15.08	0.5	PASS
	5785	7.52	0.5	PASS
	5825	16.92	0.5	PASS
11N40SISO	5755	25.84	0.5	PASS
	5795	22.56	0.5	PASS
11AC20SISO	5745	16.32	0.5	PASS
	5785	14.80	0.5	PASS
	5825	16.92	0.5	PASS
11AC40SISO	5755	9.52	0.5	PASS
	5795	21.20	0.5	PASS
11AC80SISO	5690_UNII-3	2.44	0.5	PASS
	5775	66.40	0.5	PASS

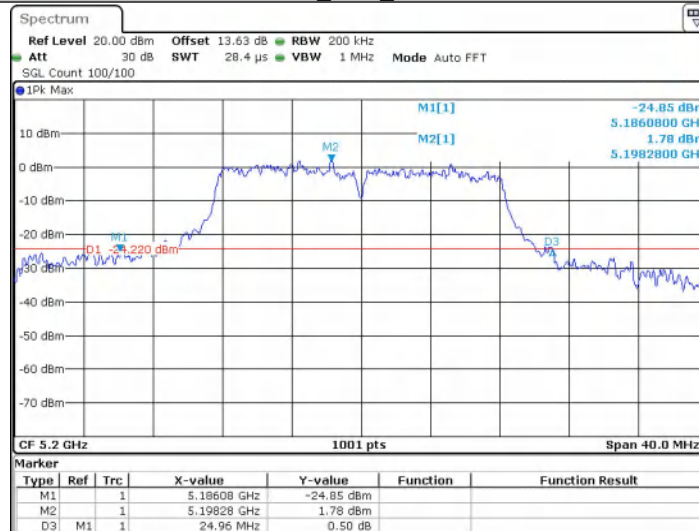
Test Graph

11A_Ant1_5180



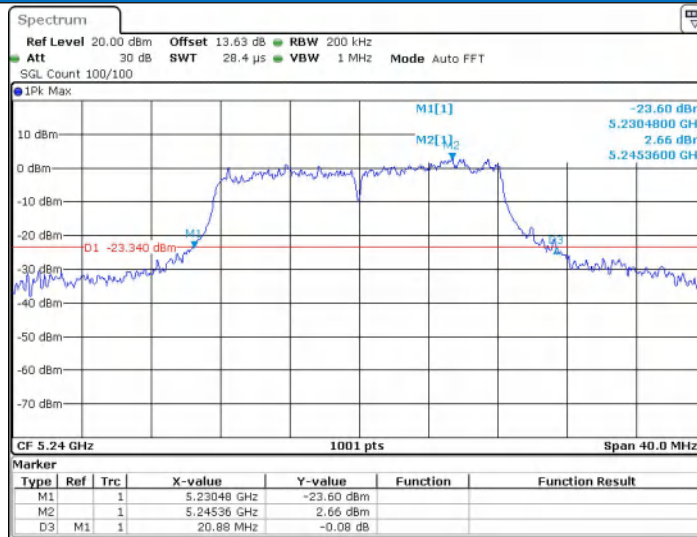
Date: 22 MAR 2025 15:35:19

11A_Ant1_5200



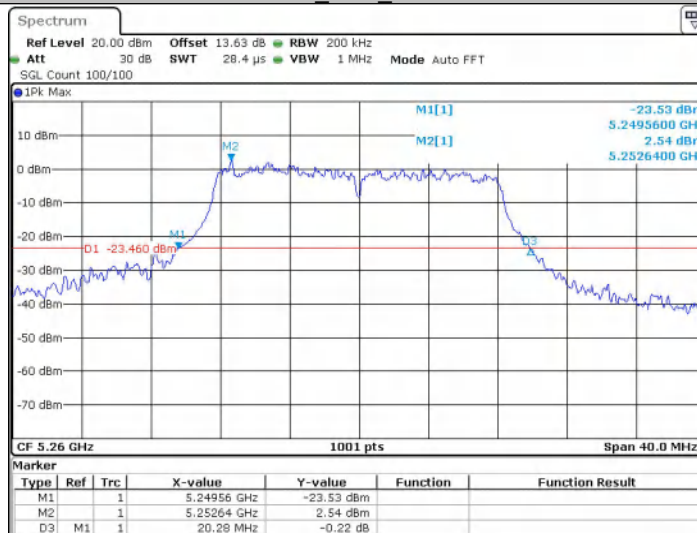
Date: 22 MAR 2025 15:41:41

11A_Ant1_5240



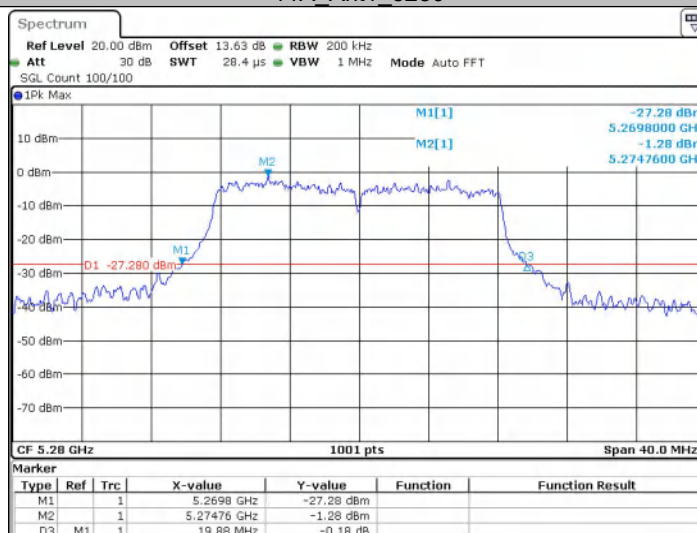
Date: 22 MAR 2025 15:42:47

11A_Ant1_5260



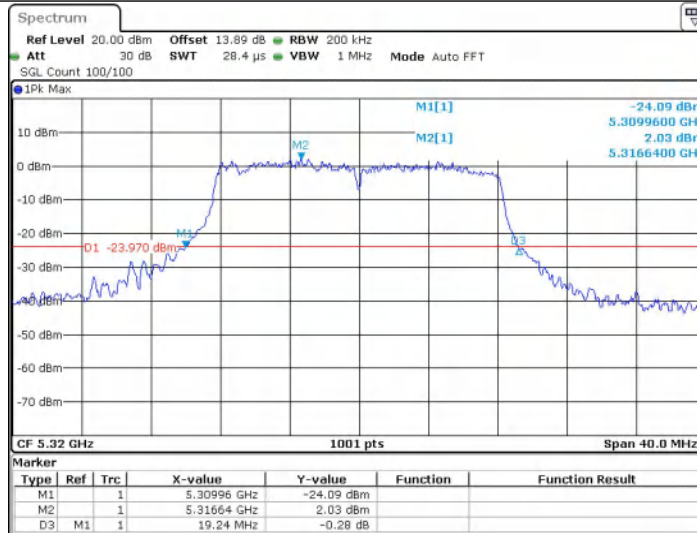
Date: 22 MAR 2025 15:43:59

11A_Ant1_5280



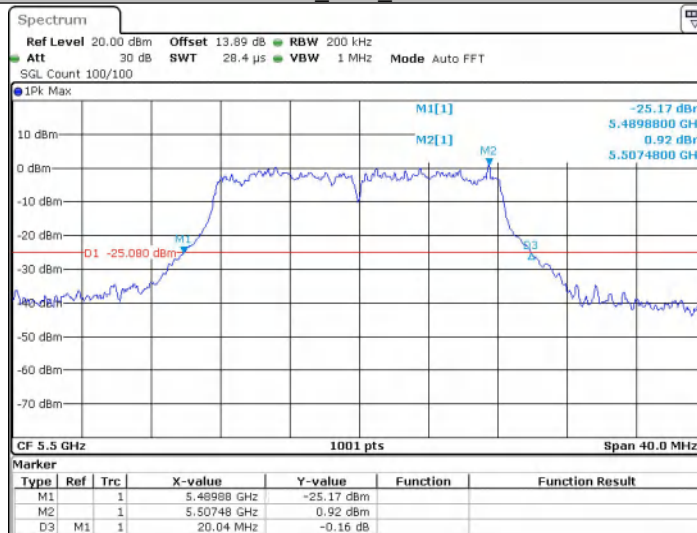
Date: 22 MAR 2025 15:45:29

11A_Ant1_5320



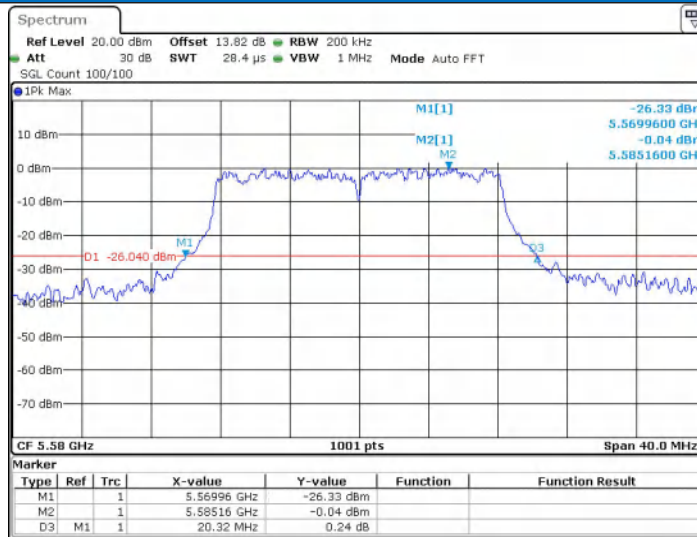
Date: 22 MAR 2025 15:46:40

11A_Ant1_5500

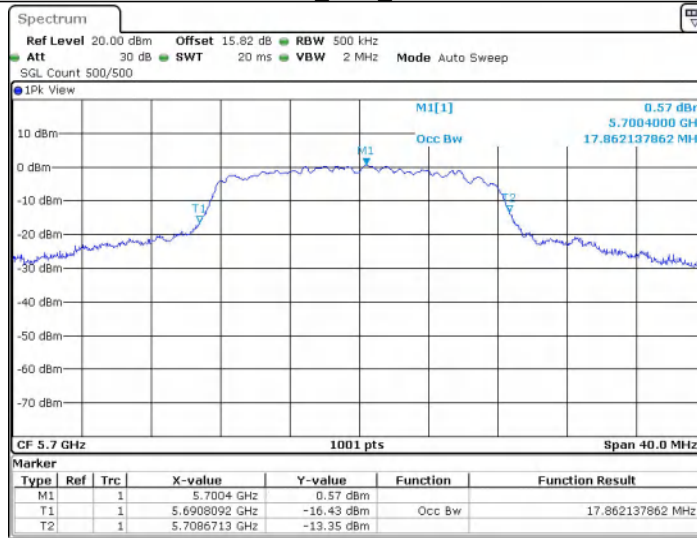


Date: 22 MAR 2025 15:48:35

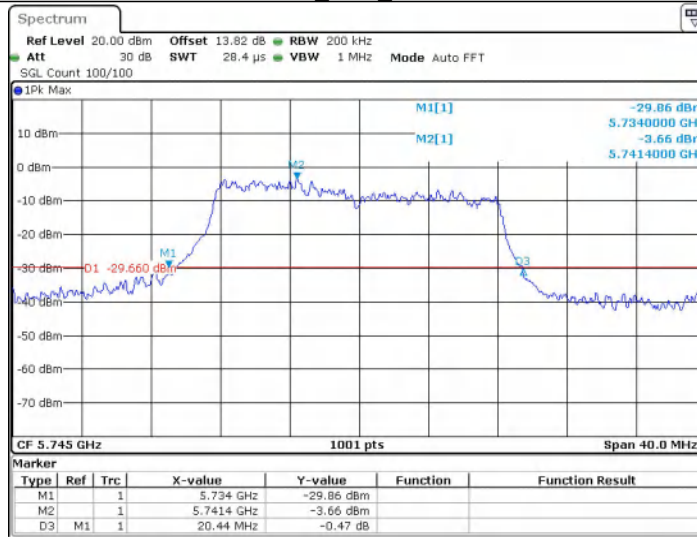
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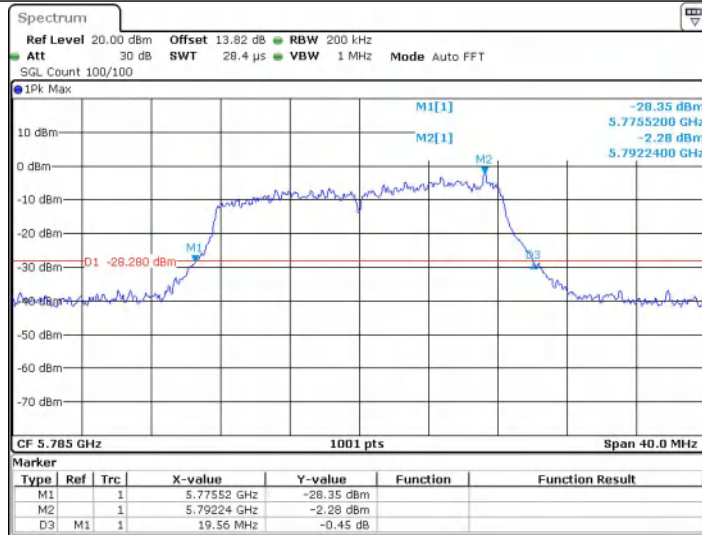
11A_Ant1_5700



11A_Ant1_5745

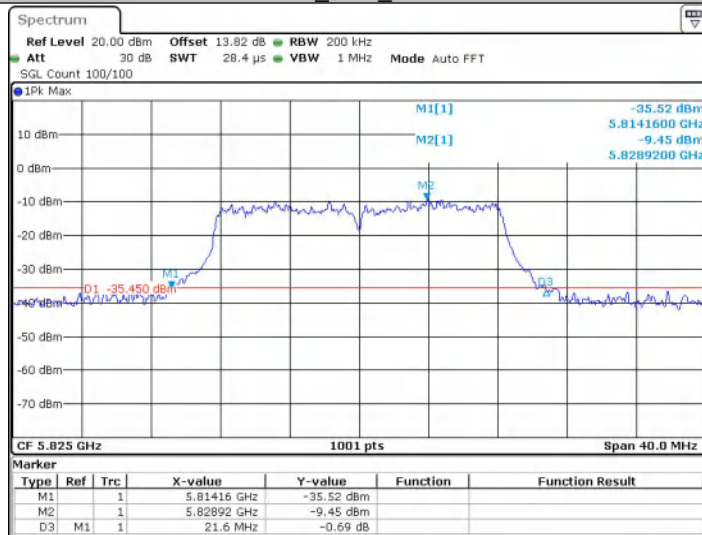


11A_Ant1_5785



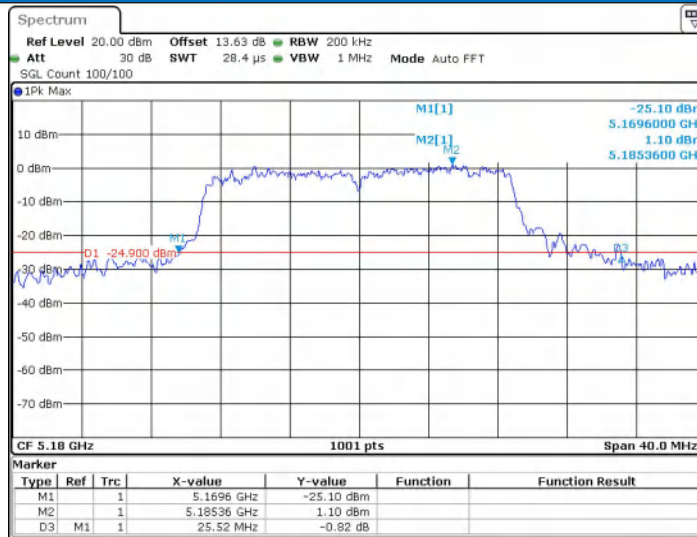
Date: 22 MAR 2025 15:56:33

11A_Ant1_5825



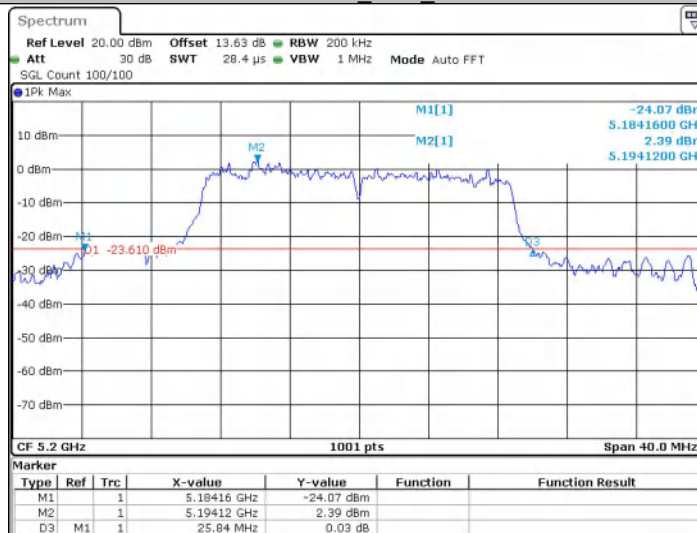
Date: 22 MAR 2025 15:58:01

11N20SISO_Ant1_5180



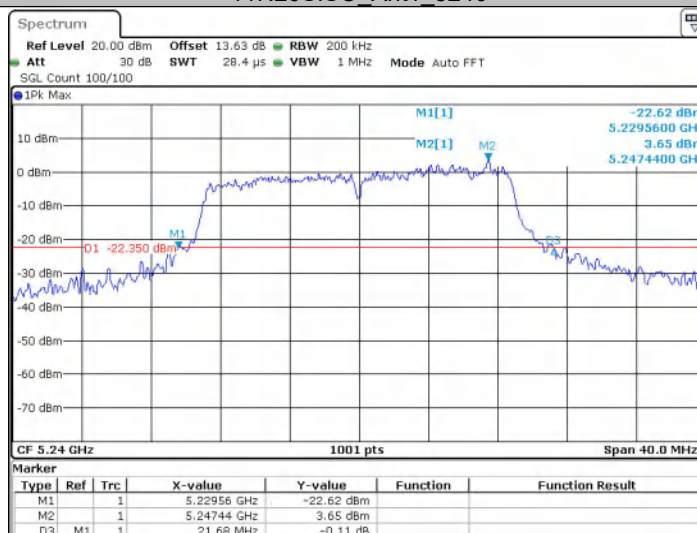
Date: 22 MAR 2025 15:59:52

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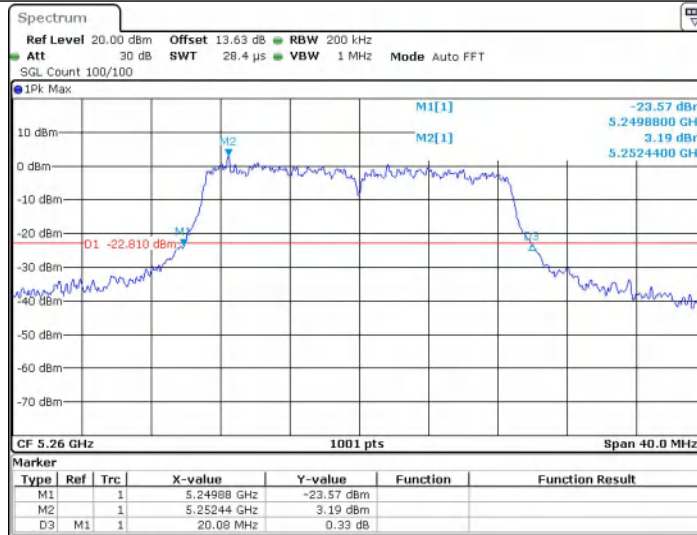
Date: 22 MAR 2025 16:01:40

11N20SISO_Ant1_5240



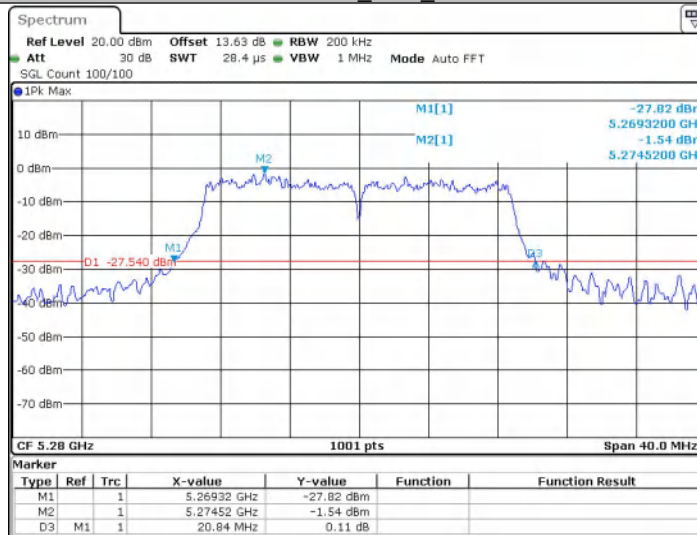
Date: 22 MAR 2025 16:02:44

11N20SISO_Ant1_5260



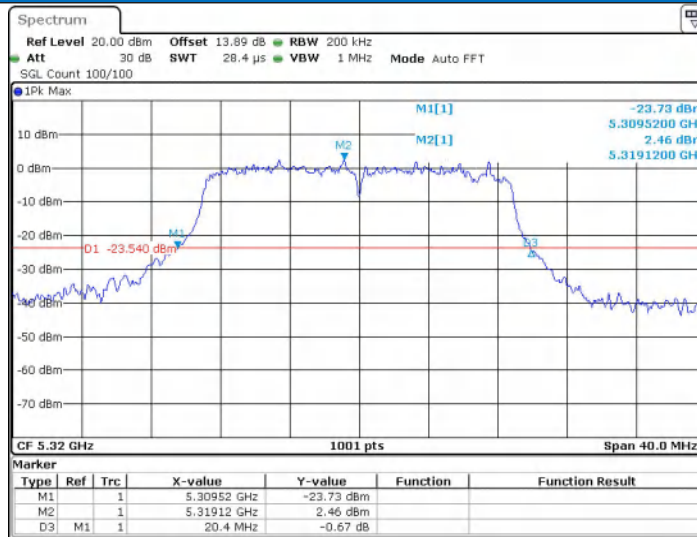
Date: 22 MAR 2025 16:03:59

11N20SISO_Ant1_5280



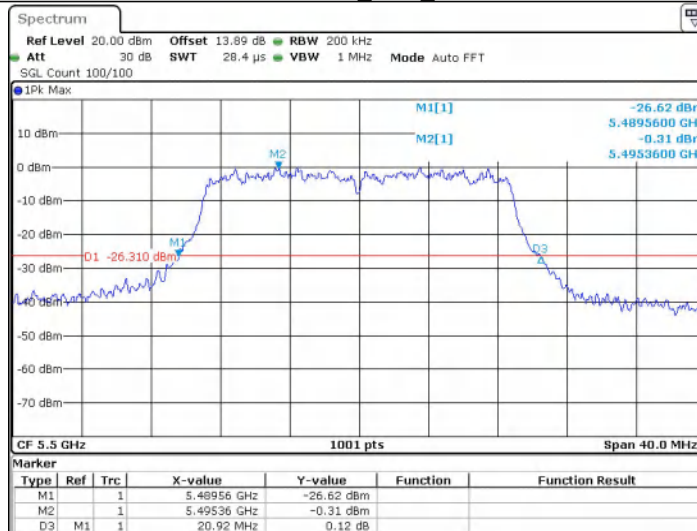
Date: 22 MAR 2025 16:05:05

11N20SISO_Ant1_5320



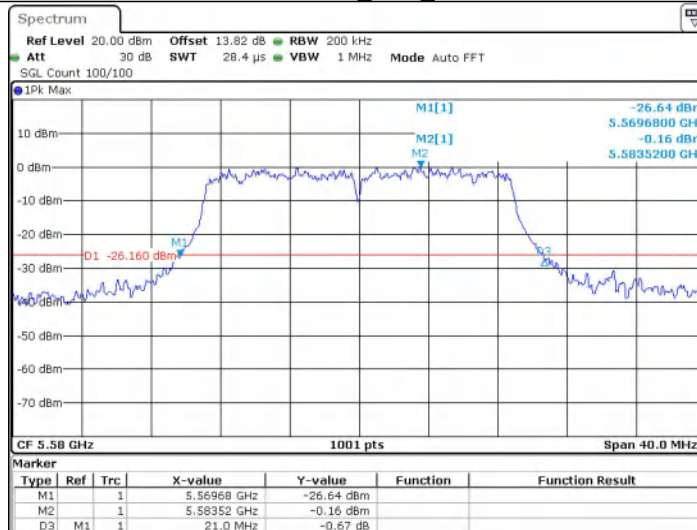
Date: 22 MAR 2025 16:06:16

11N20SISO_Ant1_5500



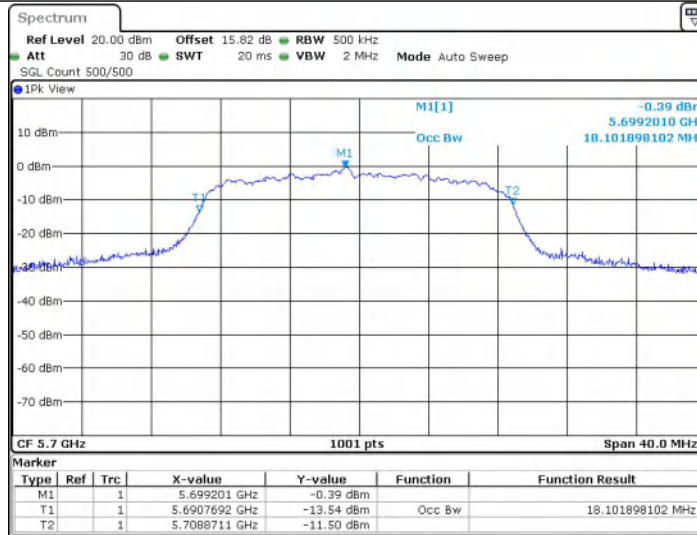
Date: 22 MAR 2025 16:07:32

11N20SISO_Ant1_5580



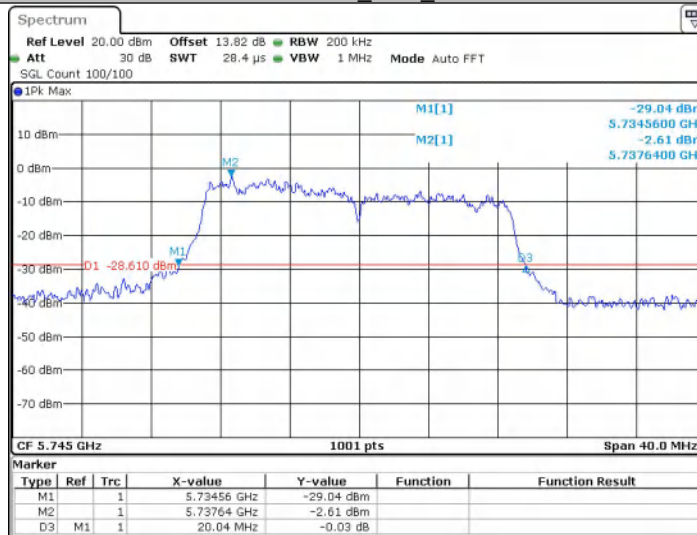
Date: 22 MAR 2025 16:08:53

11N20SISO_Ant1_5700



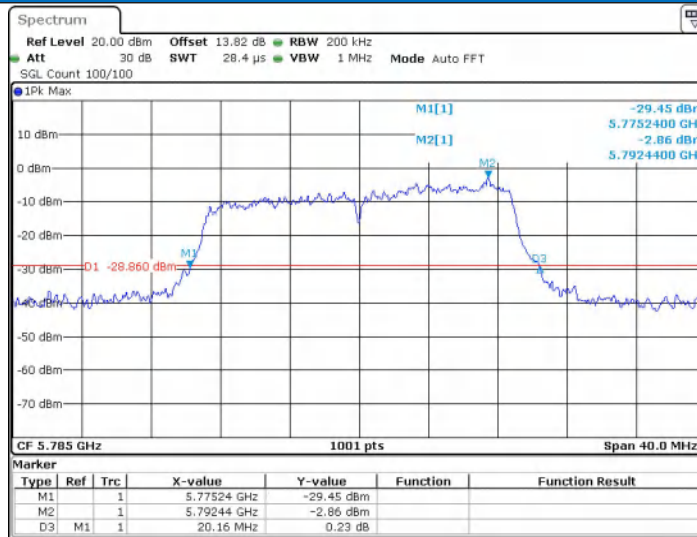
Date: 9 JUN 2025 11:29:21

11N20SISO_Ant1_5745



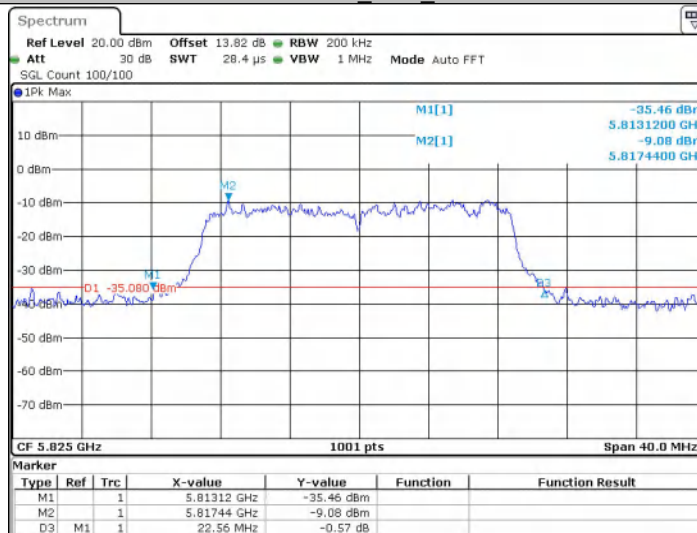
Date: 22 MAR 2025 16:11:41

11N20SISO_Ant1_5785



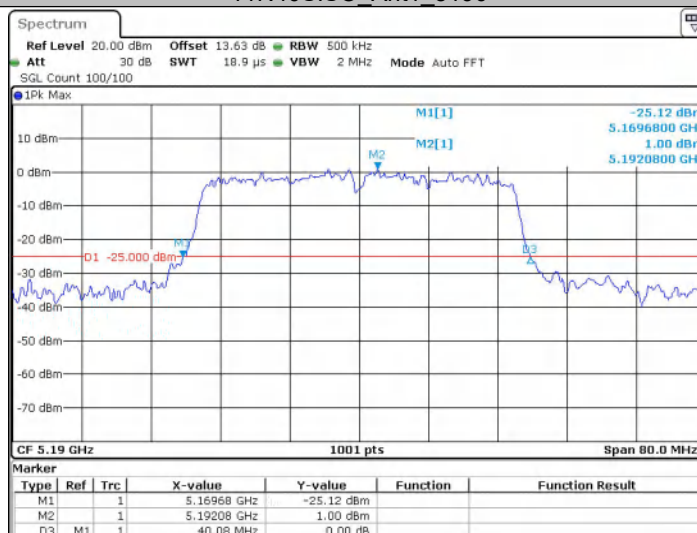
Date: 22 MAR 2025 16:13:06

11N20SISO_Ant1_5825



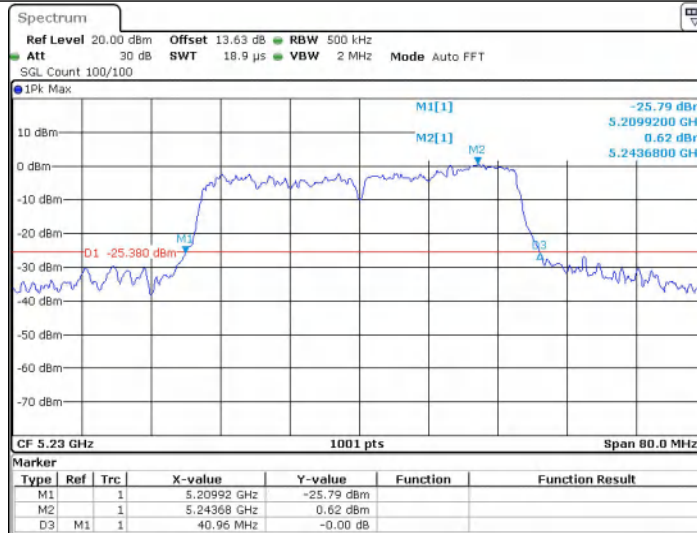
Date: 22 MAR 2025 16:14:36

11N40SISO_Ant1_5190



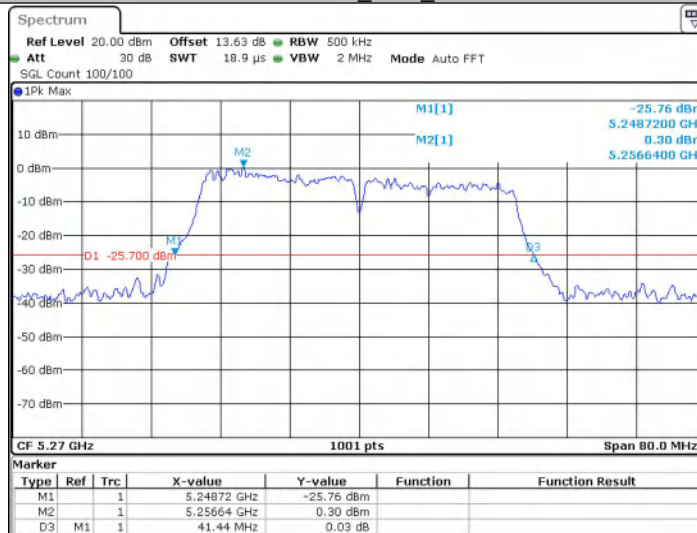
Date: 22 MAR 2025 16:17:47

11N40SISO_Ant1_5230



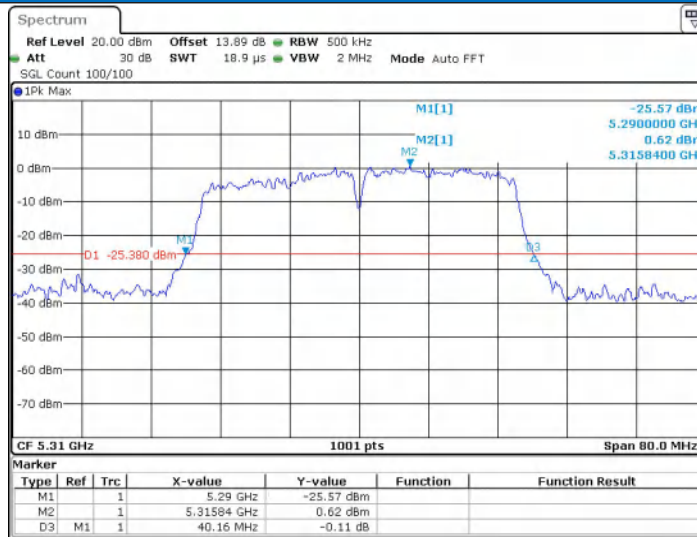
Date: 22 MAR 2025 16:19:24

11N40SISO_Ant1_5270



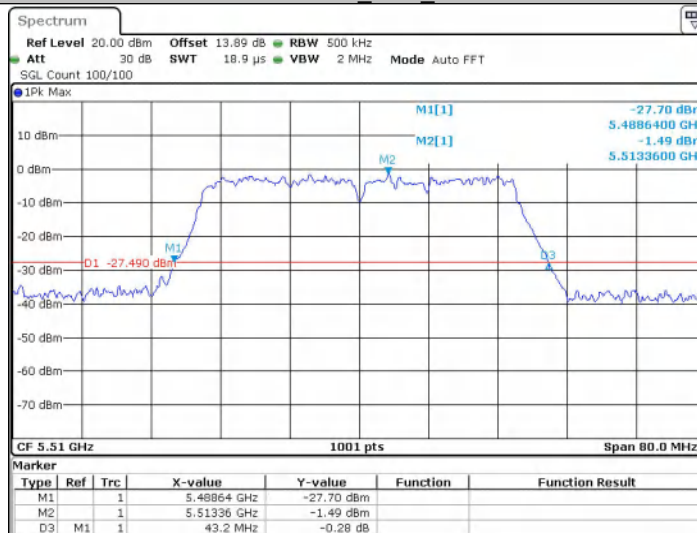
Date: 22 MAR 2025 16:20:33

11N40SISO_Ant1_5310



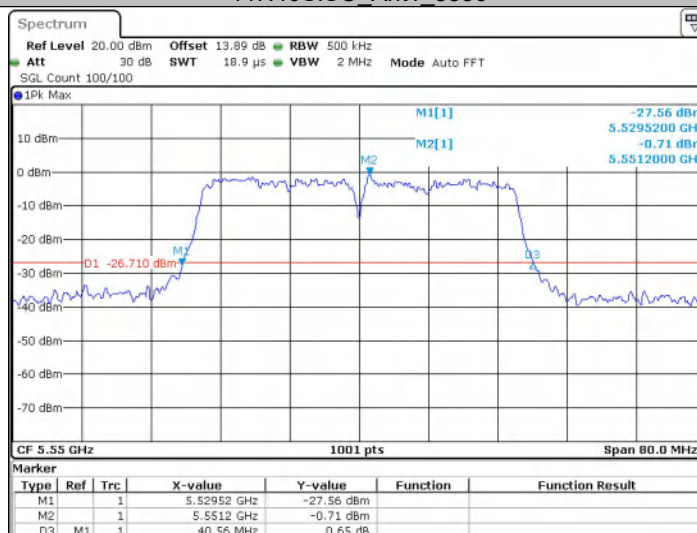
Date: 22 MAR 2025 16:21:47

11N40SISO_Ant1_5510



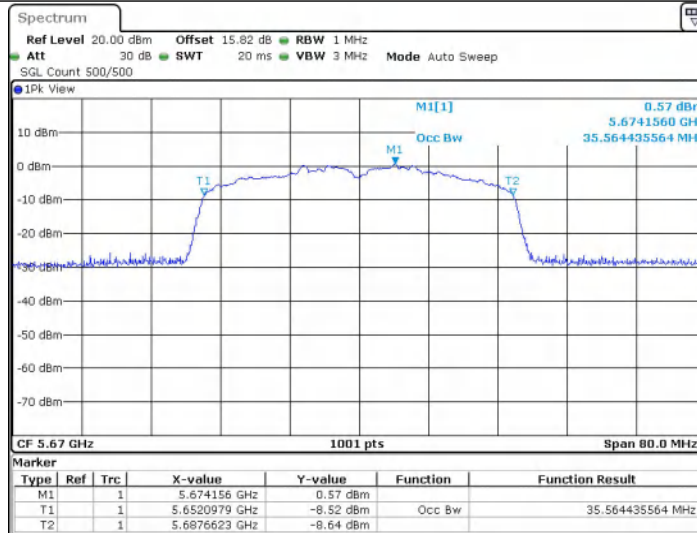
Date: 22 MAR 2025 16:23:11

11N40SISO_Ant1_5550



Date: 22 MAR 2025 16:24:33

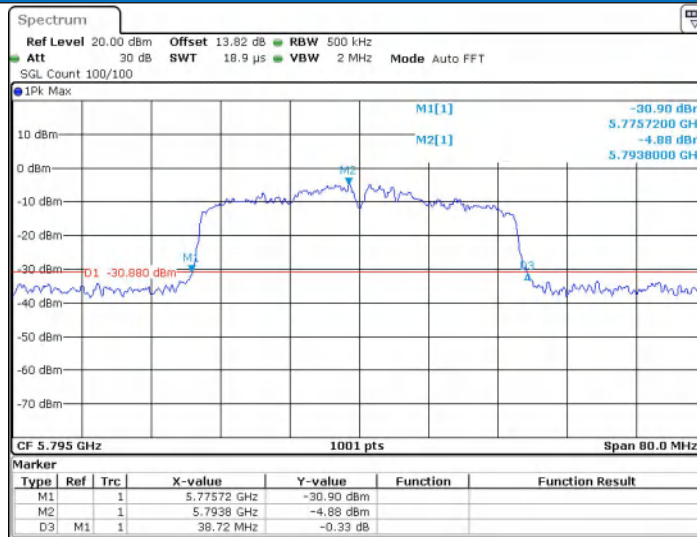
11N40SISO_Ant1_5670



11N40SISO_Ant1_5755

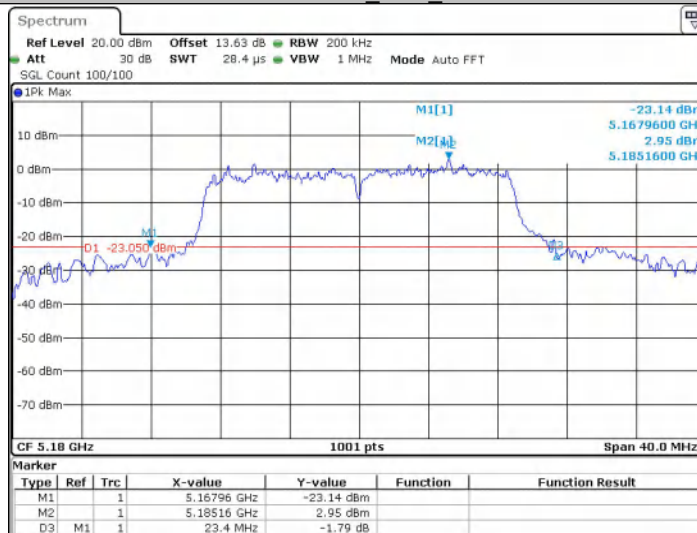


11N40SISO_Ant1_5795



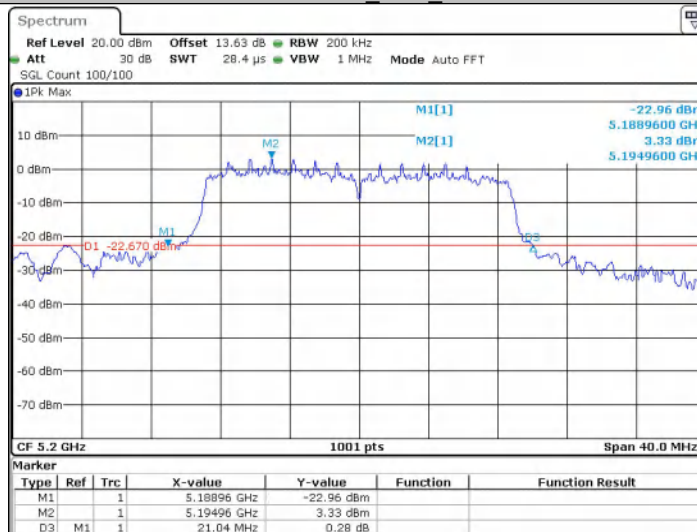
Date: 22 MAR 2025 16:28:54

11AC20SISO_Ant1_5180



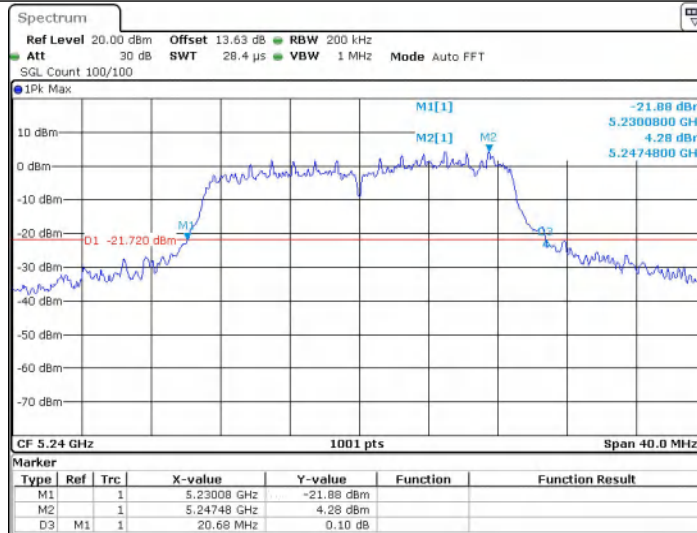
Date: 22 MAR 2025 16:30:30

11AC20SISO_Ant1_5200



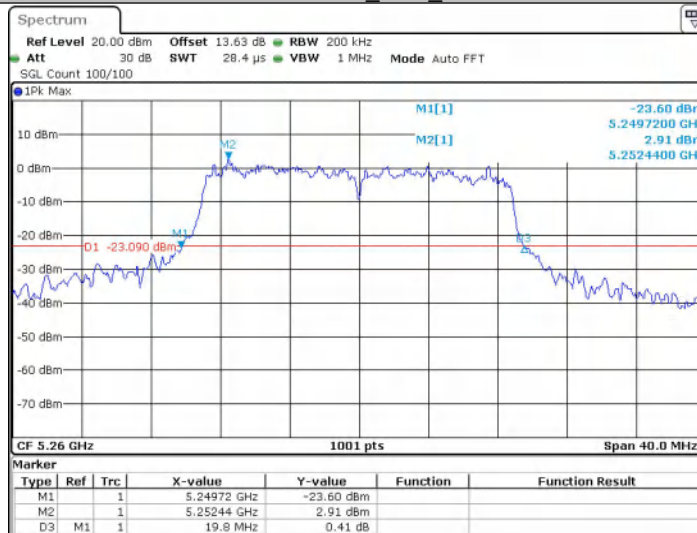
Date: 22 MAR 2025 16:33:10

11AC20SISO_Ant1_5240



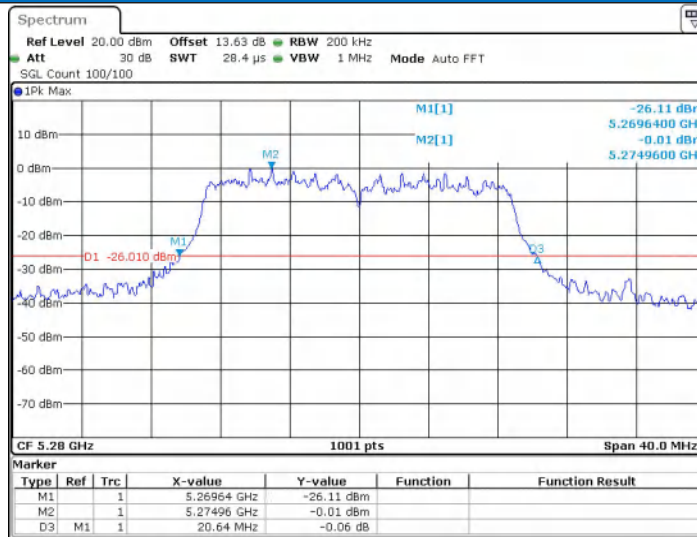
Date: 22 MAR 2025 16:34:31

11AC20SISO_Ant1_5260

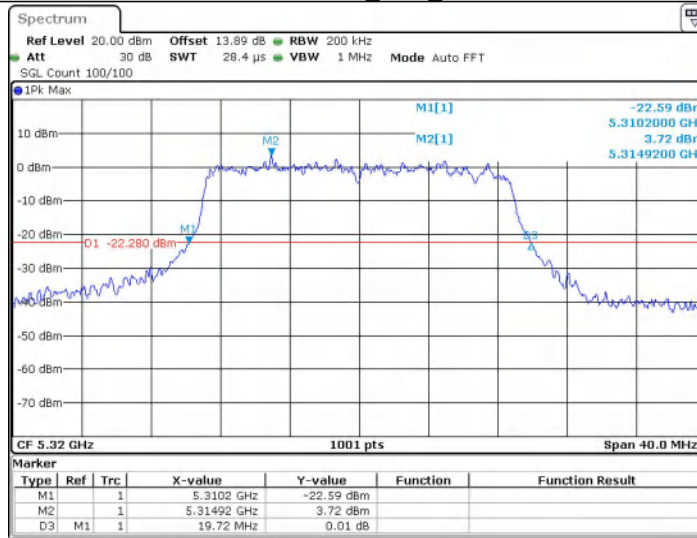


Date: 22 MAR 2025 16:36:01

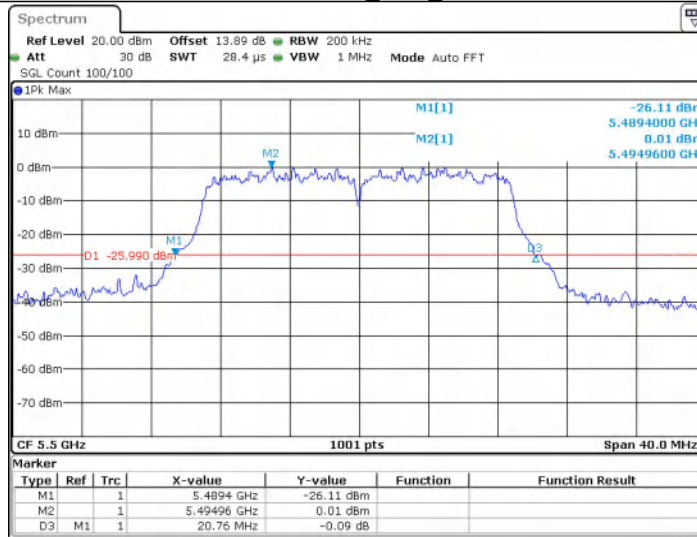
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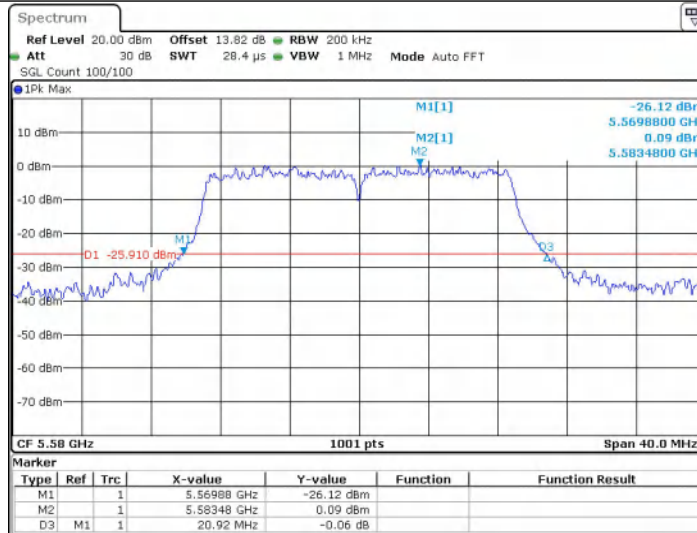
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11AC20SISO_Ant1_5500

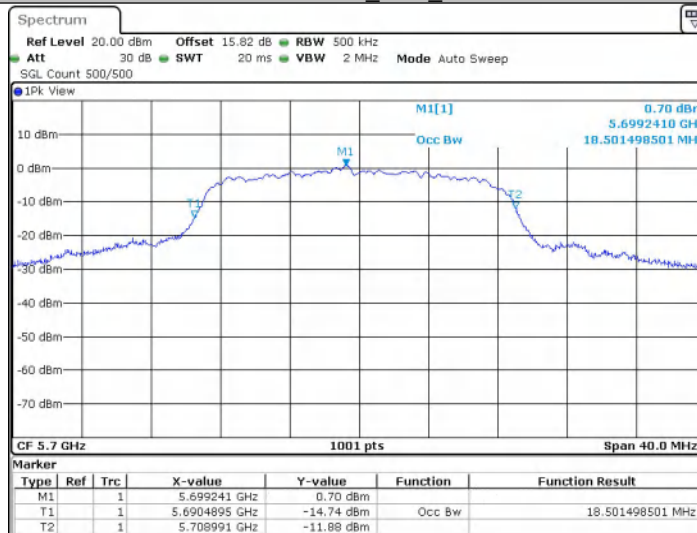


11AC20SISO_Ant1_5580



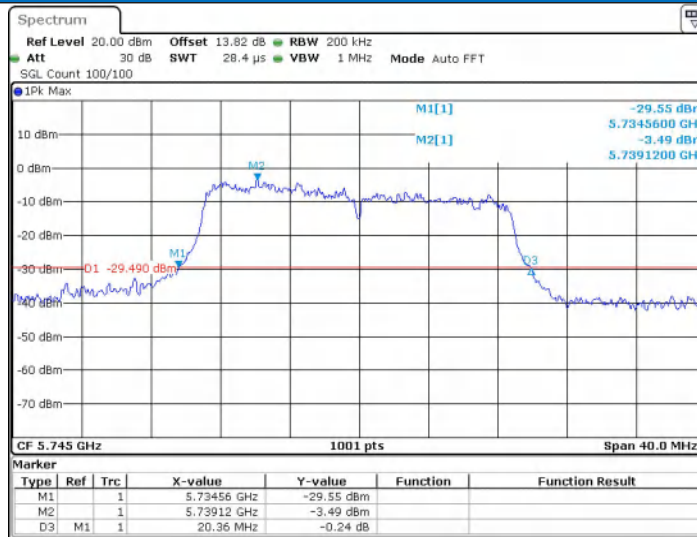
Date: 22 MAR 2025 16:41:23

11AC20SISO_Ant1_5700



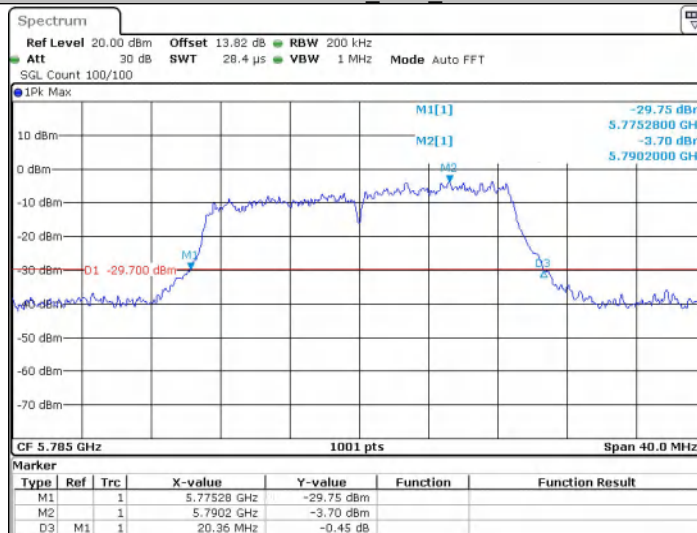
Date: 9 JUN 2025 11:59:47

11AC20SISO_Ant1_5745



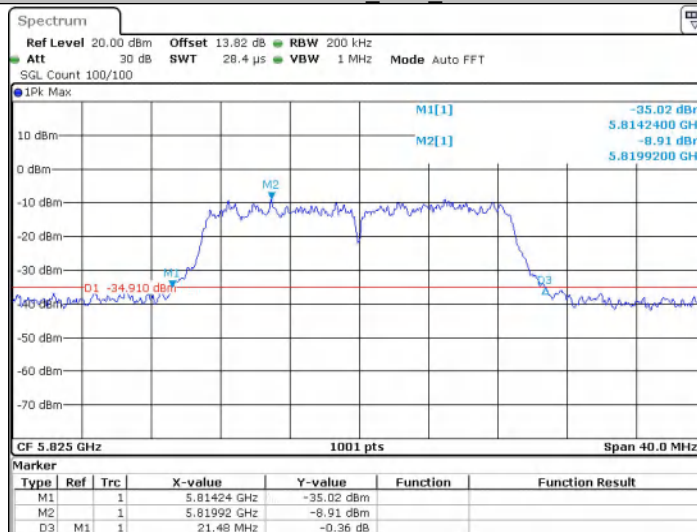
Date: 22 MAR 2025 16:44:03

11AC20SISO_Ant1_5785



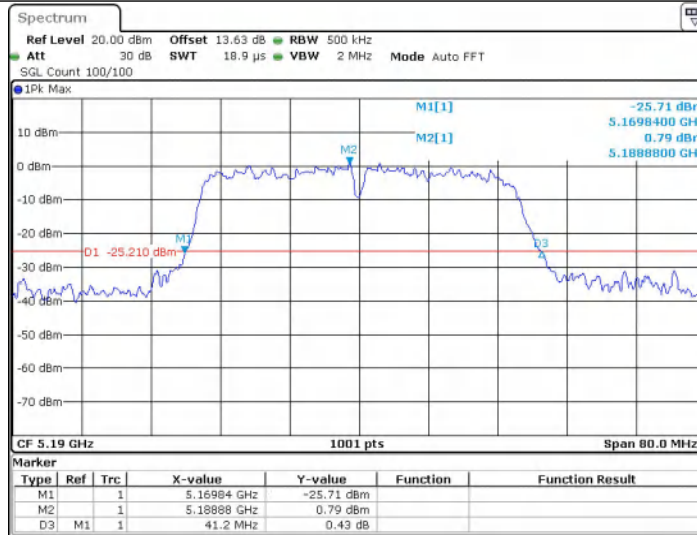
Date: 22 MAR 2025 16:45:28

11AC20SISO_Ant1_5825



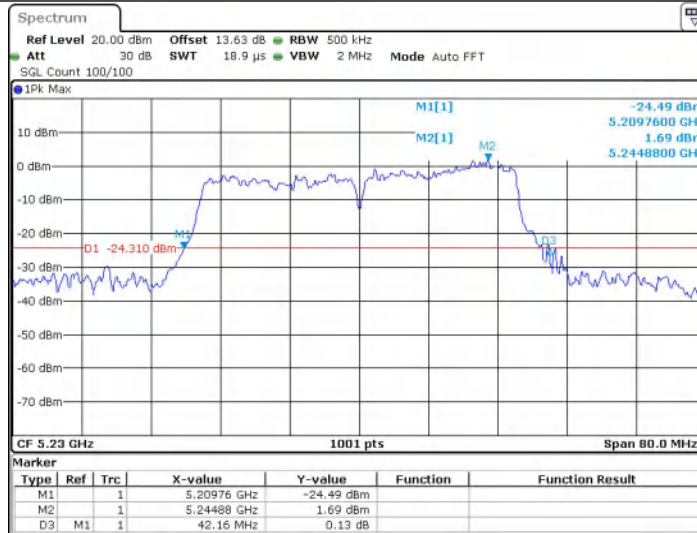
Date: 22 MAR 2025 16:46:43

11AC40SISO_Ant1_5190



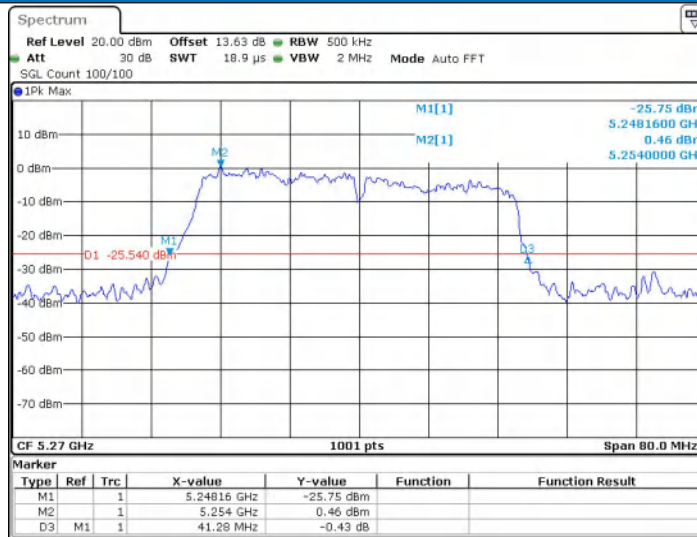
Date: 22 MAR 2025 16:48:17

11AC40SISO_Ant1_5230



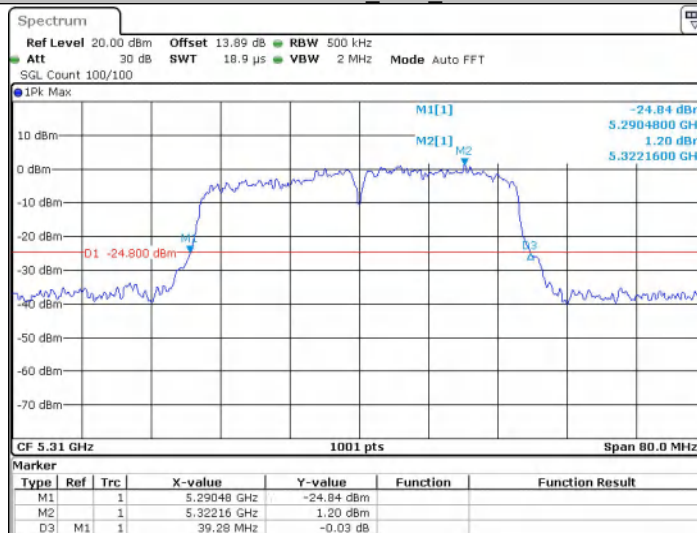
Date: 22 MAR 2025 16:48:59

11AC40SISO_Ant1_5270



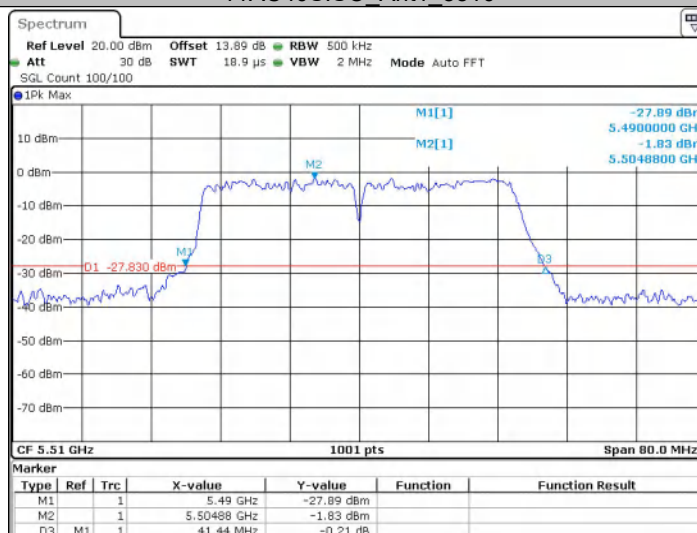
Date: 22 MAR 2025 16:51:34

11AC40SISO_Ant1_5310



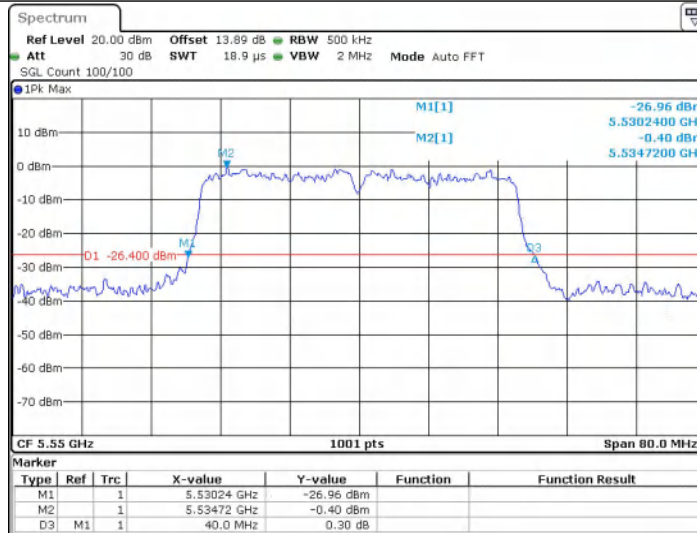
Date: 22 MAR 2025 16:52:42

11AC40SISO_Ant1_5510



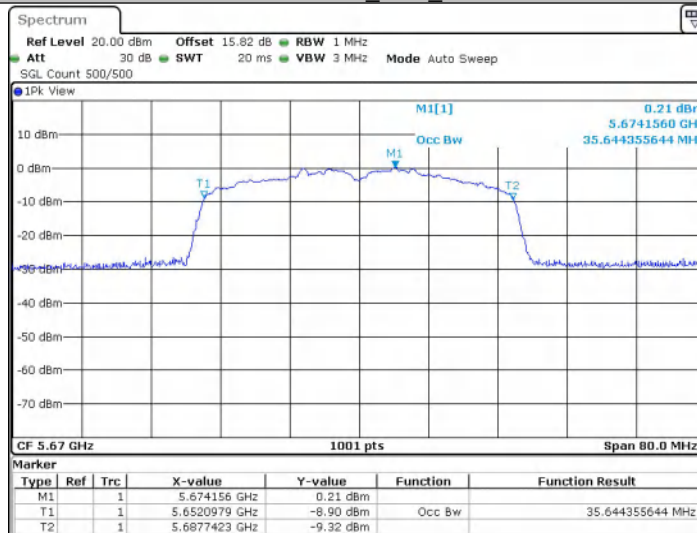
Date: 22 MAR 2025 16:54:23

11AC40SISO_Ant1_5550



Date: 22 MAR 2025 16:59:49

11AC40SISO_Ant1_5670



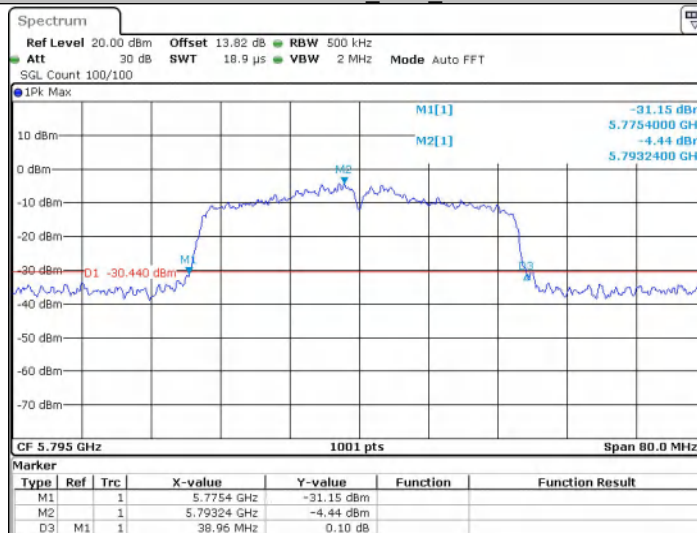
Date: 9 JUN 2025 11:33:40

11AC40SISO_Ant1_5755



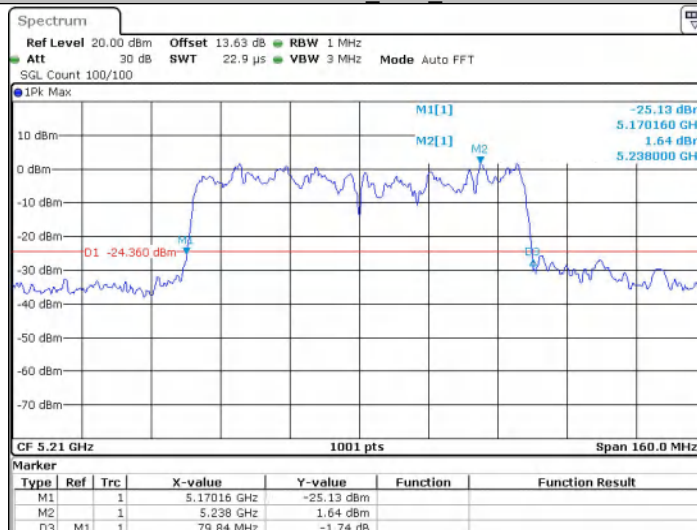
Date: 22 MAR 2025 17:02:56

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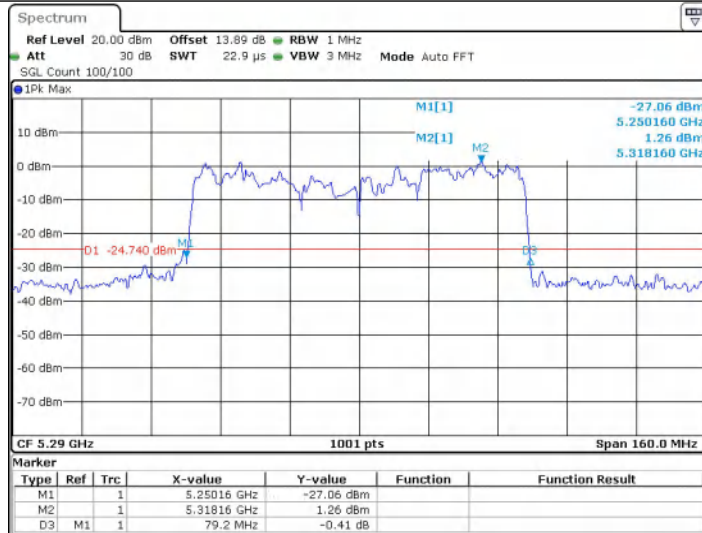
Date: 22 MAR 2025 17:04:42

11AC80SISO_Ant1_5210



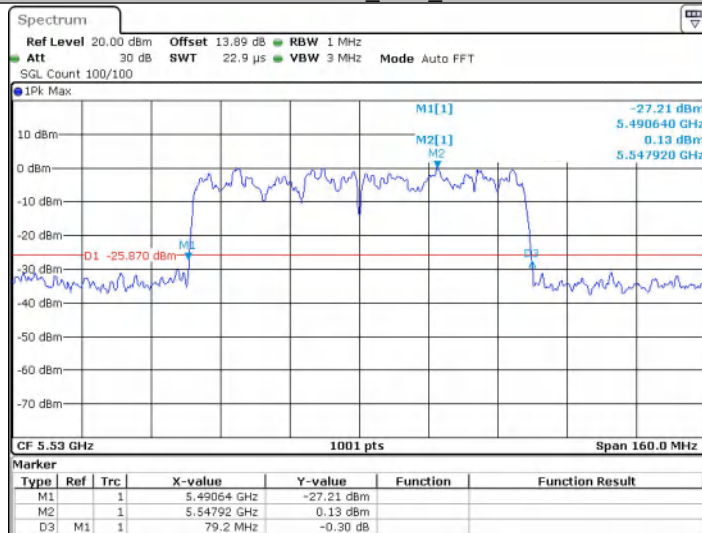
Date: 22 MAR 2025 17:06:39

11AC80SISO_Ant1_5290



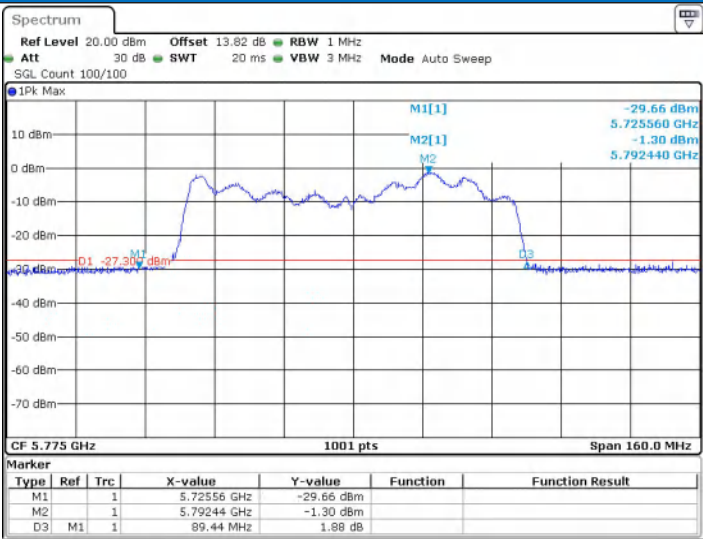
Date: 22 MAR 2025 17:08:33

11AC80SISO_Ant1_5530



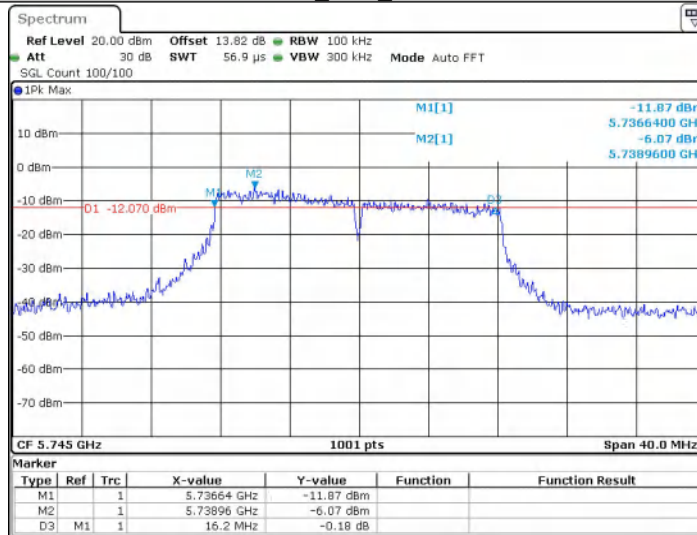
Date: 22 MAR 2025 17:10:27

11AC80SISO_Ant1_5775



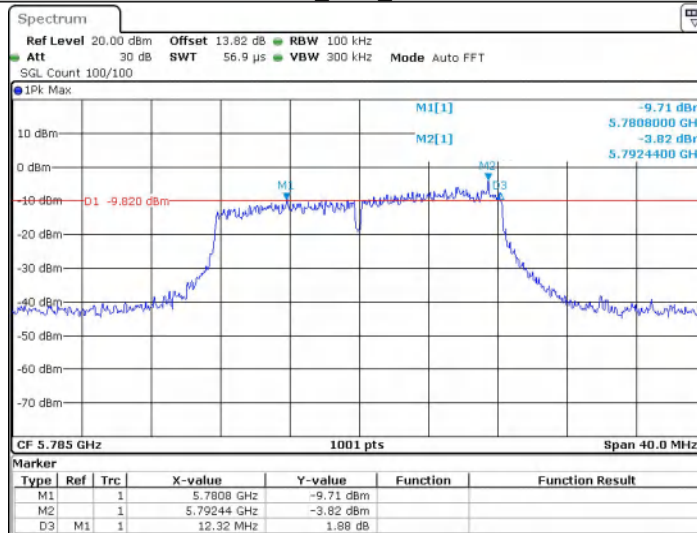
Date: 22 MAR 2025 17:18:30

11A_Ant1_5745



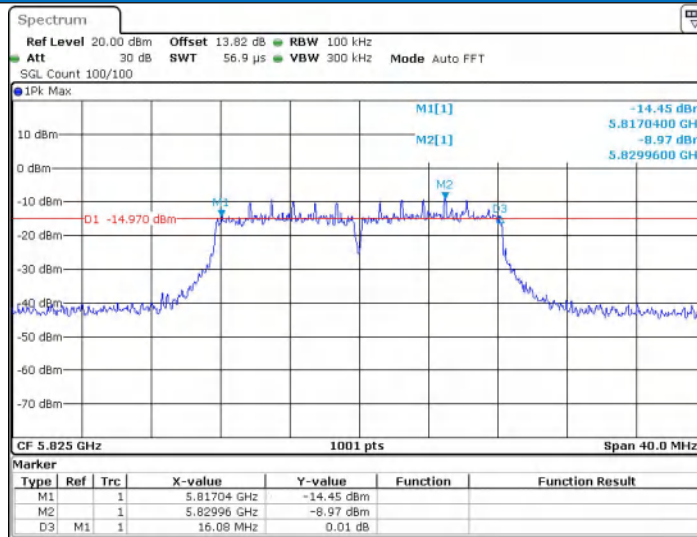
Date: 22 MAR 2025 15:54:40

11A_Ant1_5785

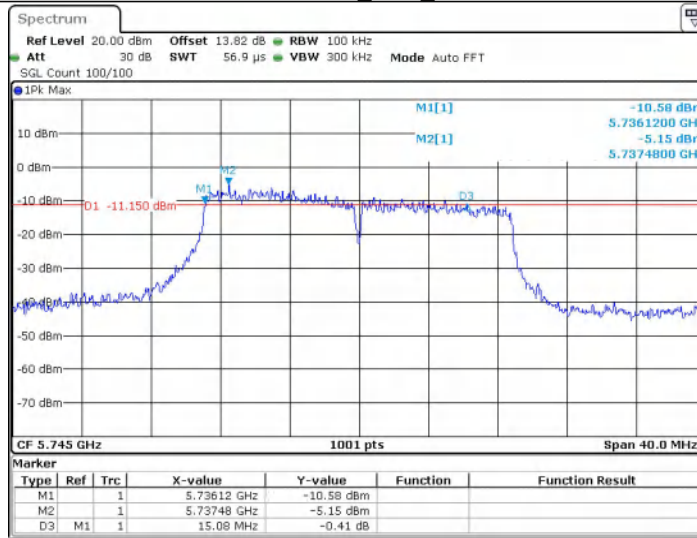


Date: 22 MAR 2025 15:56:39

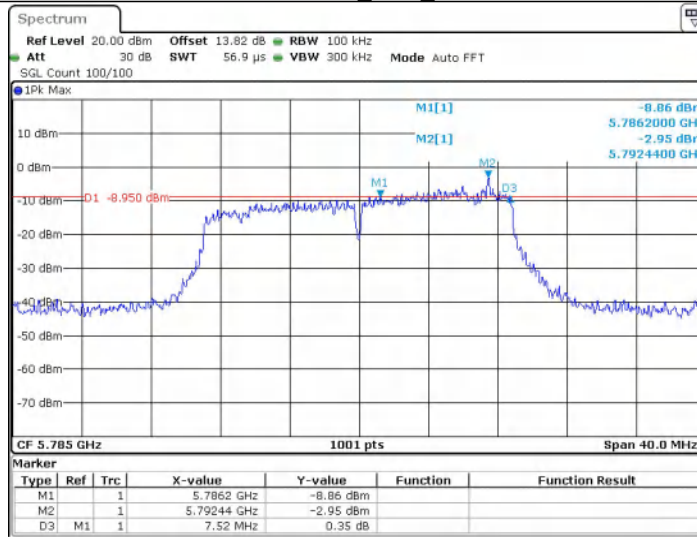
11A_Ant1_5825



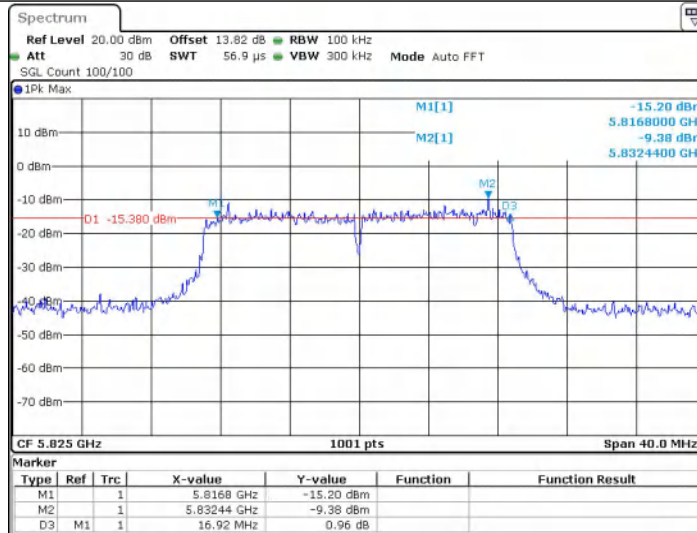
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11N20SISO_Ant1_5785

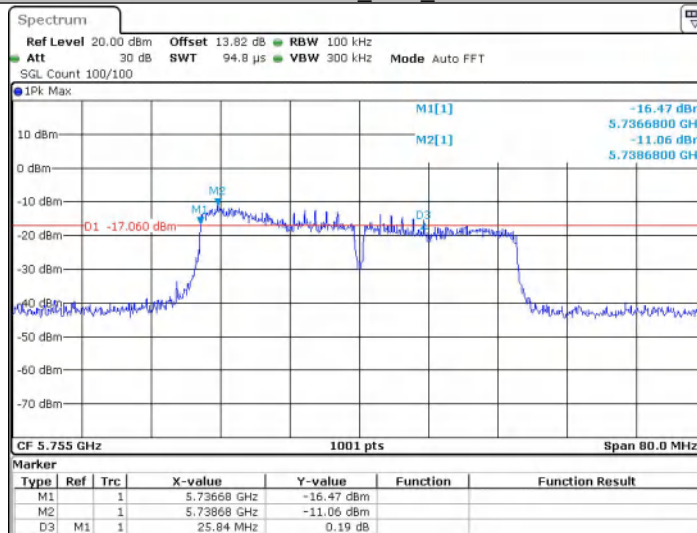


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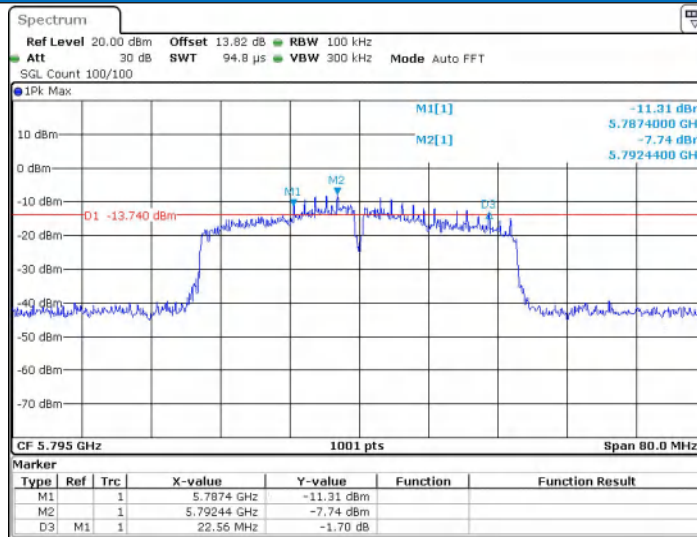
Date: 22 MAR 2025 16:14:42

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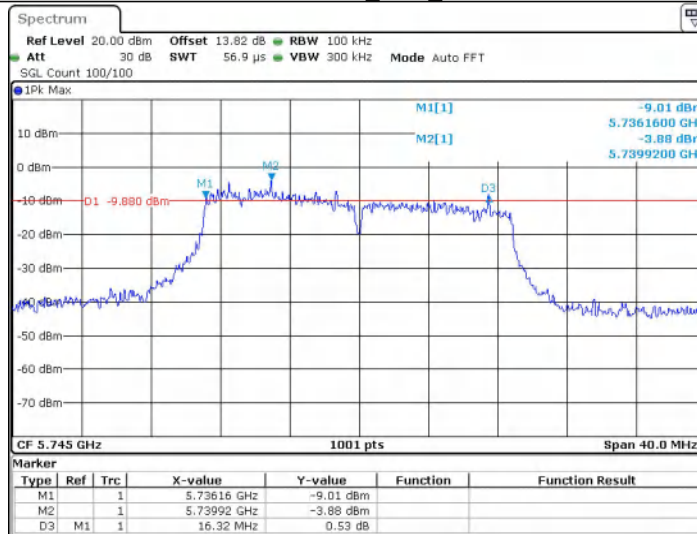
Date: 22 MAR 2025 16:27:19

11N40SISO_Ant1_5795



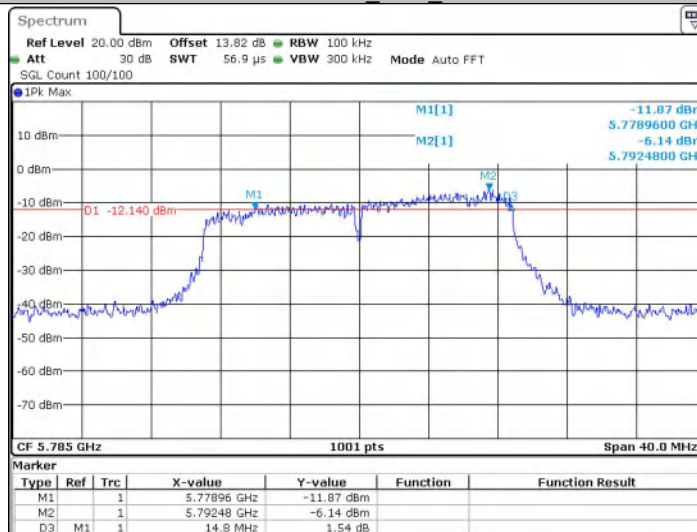
Date: 22 MAR 2025 16:29:00

11AC20SISO_Ant1_5745



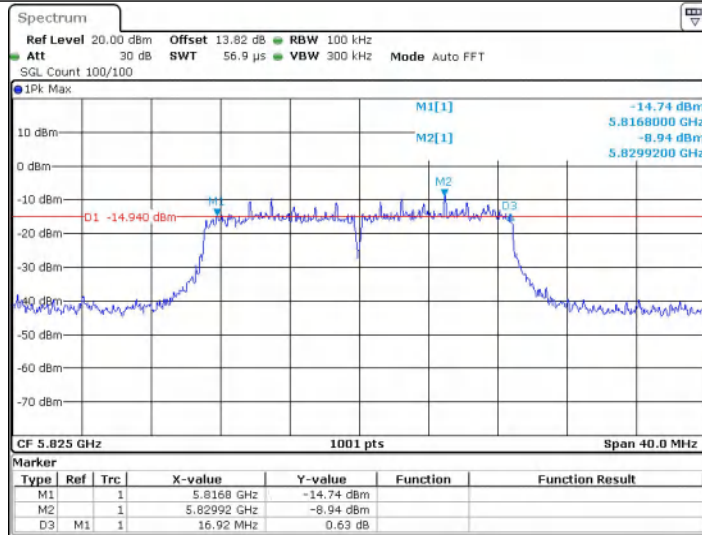
Date: 22 MAR 2025 16:44:10

11AC20SISO_Ant1_5785



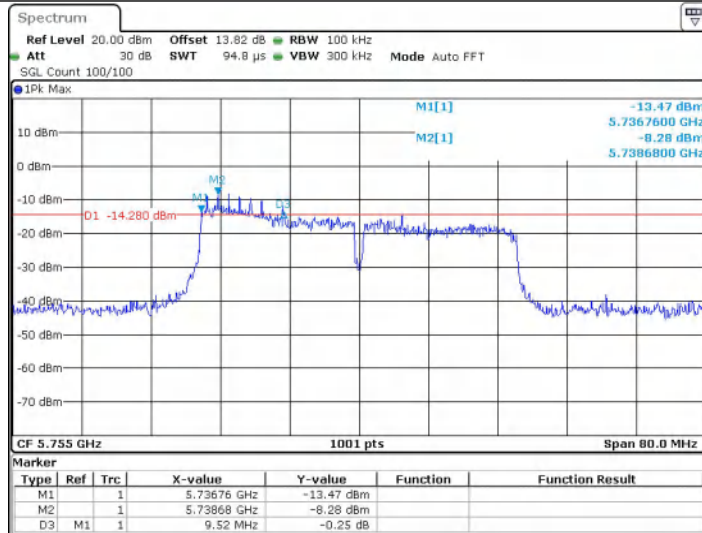
Date: 22 MAR 2025 16:45:35

11AC20SISO_Ant1_5825



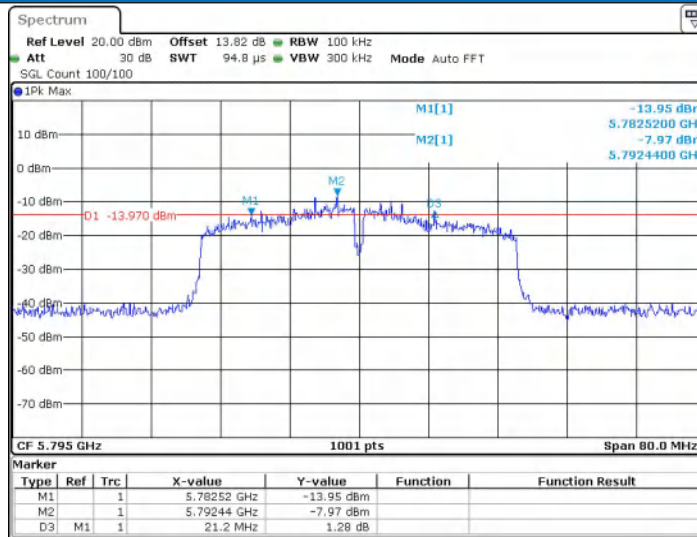
Date: 22 MAR 2025 16:46:49

11AC40SISO_Ant1_5755



Date: 22 MAR 2025 17:03:03

11AC40SISO_Ant1_5795



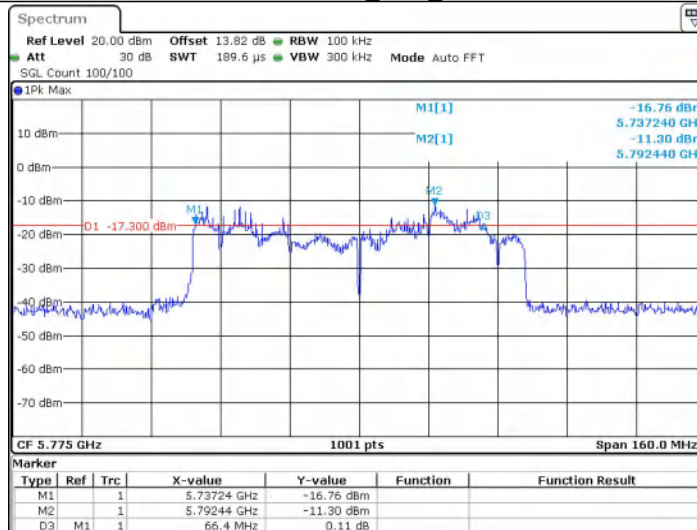
Date: 22 MAR 2025 17:04:49

11AC80SISO_Ant1_5690



Date: 25 APR 2025 12:11:53

11AC80SISO_Ant1_5775



Date: 22 MAR 2025 17:18:38

Appendix B): Maximum Conduct Output Power

1.Duty Cycle (x)

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

Test Procedure:

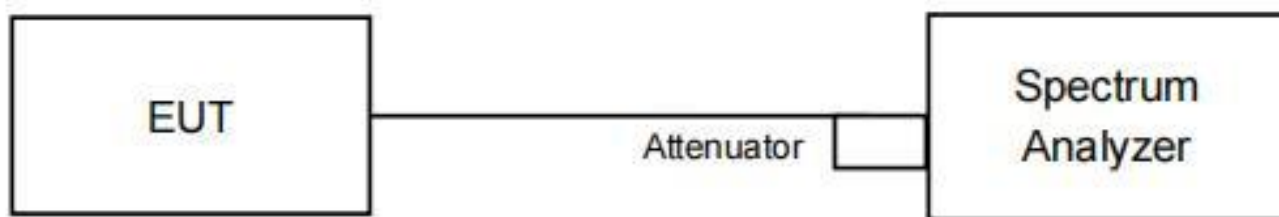
Set RBW = 20MHz

Set VBW = 40MHz

Set detector = peak.

Set span =0Hz

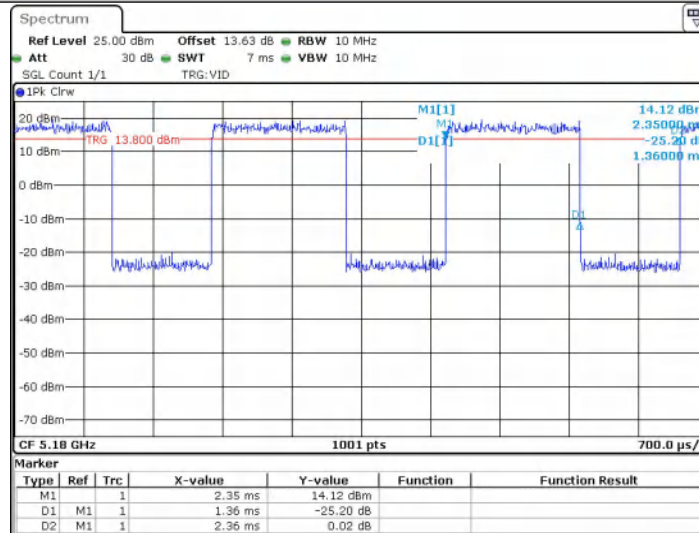
Test Setup Diagram



Measurement Data

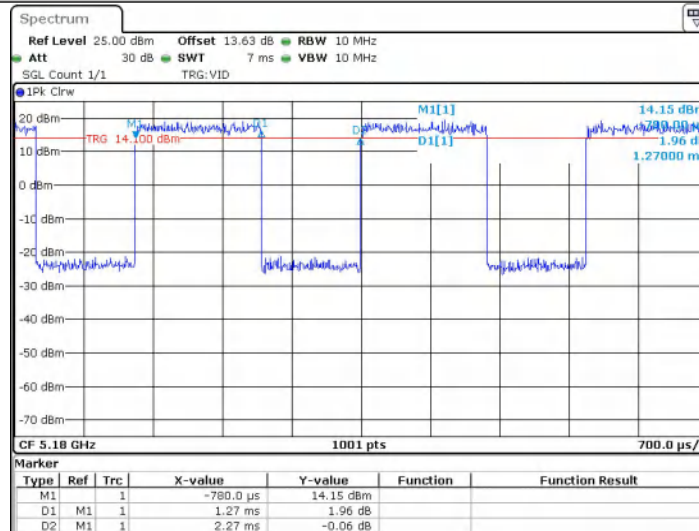
Test Mode	Antenna	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	Ant1	57.63	2.39
11N20	Ant1	55.95	2.52
11N40	Ant1	38.41	4.16
11AC20	Ant1	55.70	2.54
11AC40	Ant1	38.79	4.11
11AC80	Ant1	23.48	6.29

11A



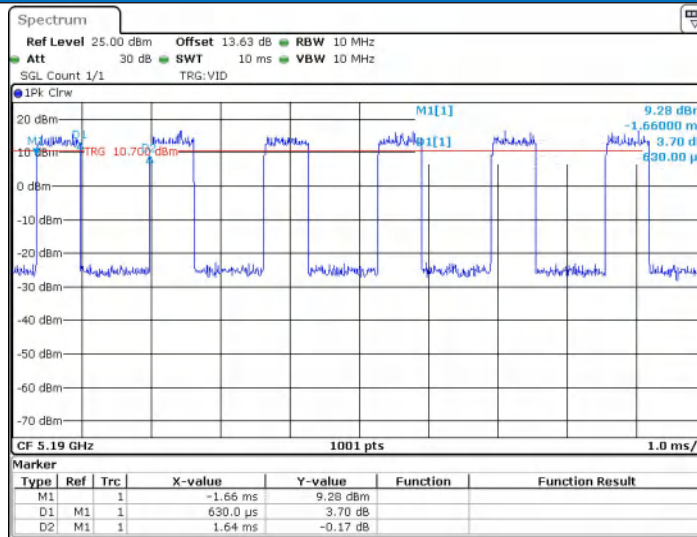
Date: 22 MAR 2025 15:35:41

11N20



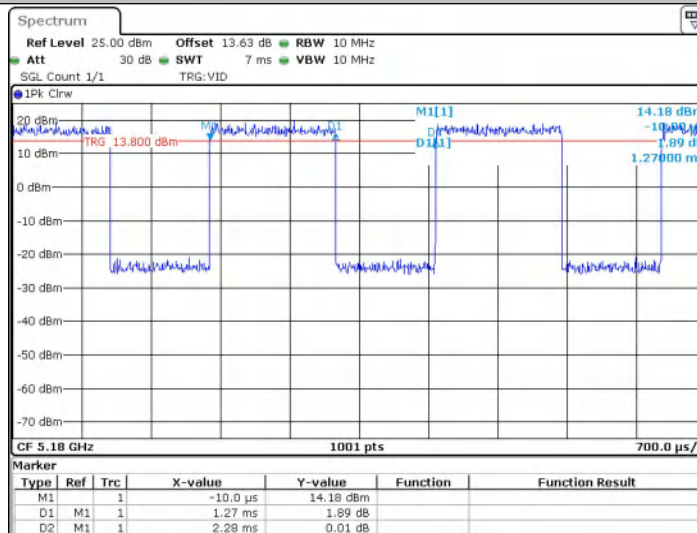
Date: 22 MAR 2025 16:00:14

11N40



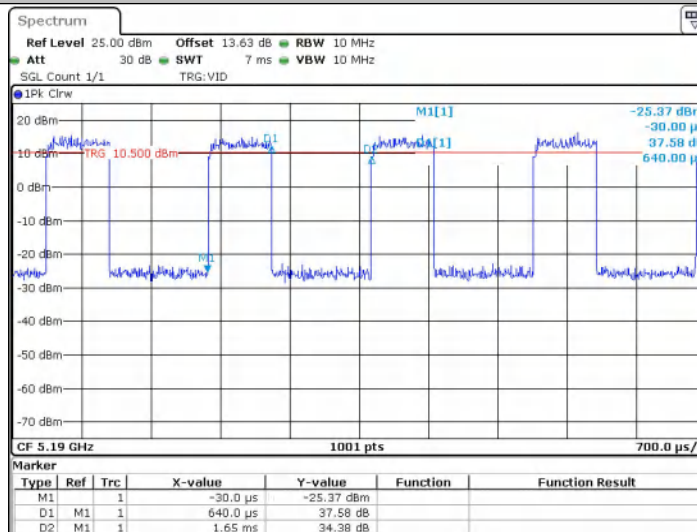
Date: 22 MAR 2025 17:26:50

11AC20



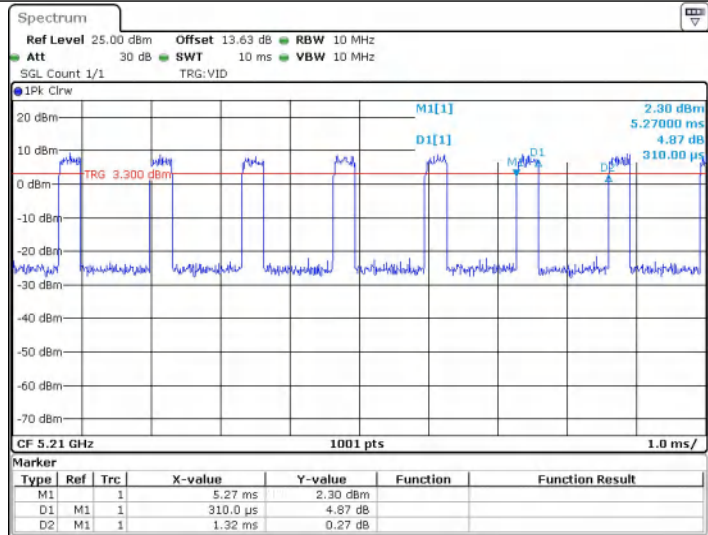
Date: 22 MAR 2025 16:30:52

11AC40



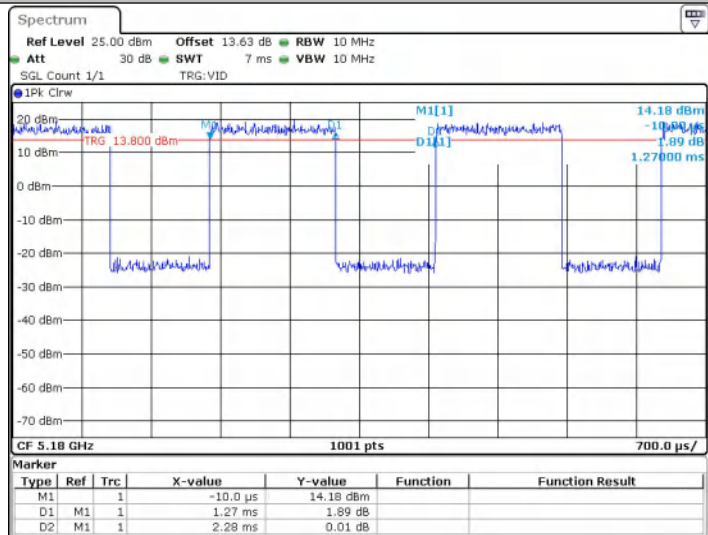
Date: 22 MAR 2025 16:48:41

11AC80



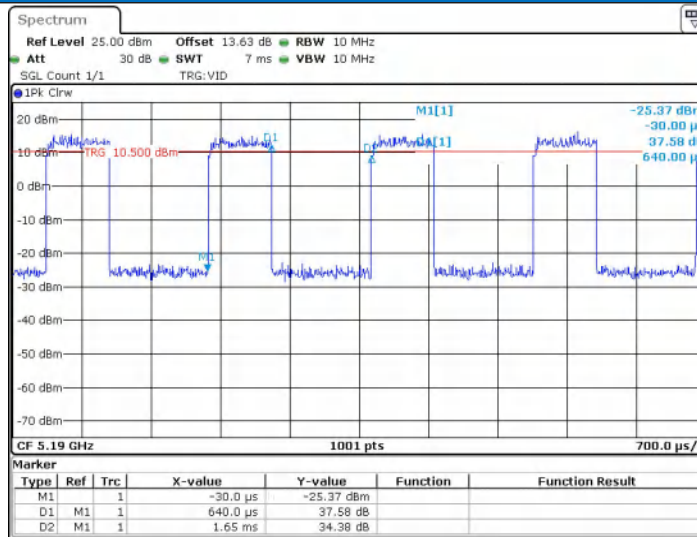
Date: 22 MAR 2025 17:07:11

11AX20



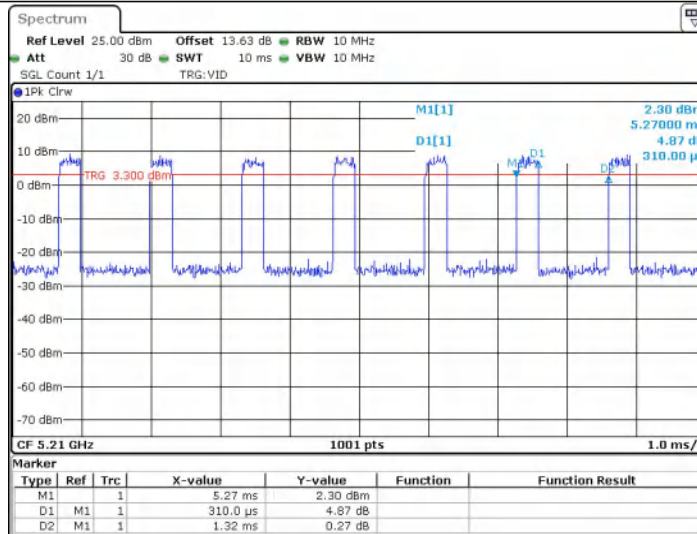
Date: 22 MAR 2025 16:30:52

11AX40



Date: 22 MAR 2025 16:48:41

11AX80



Date: 22 MAR 2025 17:07:11

2. Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

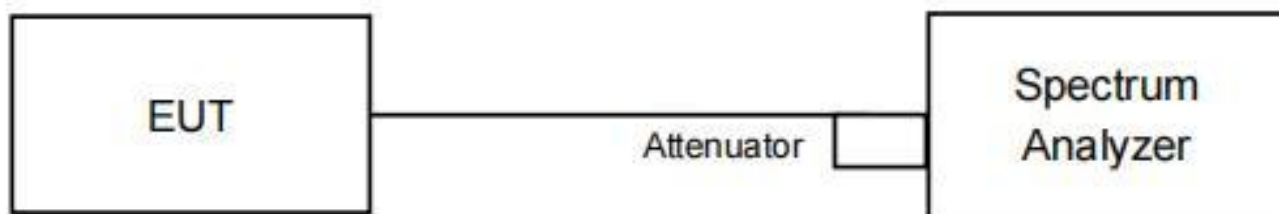
Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Test Procedure:

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (1) Set RBW = 1 MHz.
- (2) Set VBW ≥ 3 MHz.
- (3) Detector = power average
- (4) Sweep time = auto.
- (5) Add duty cycle to the measured average power.

Test Setup Diagram

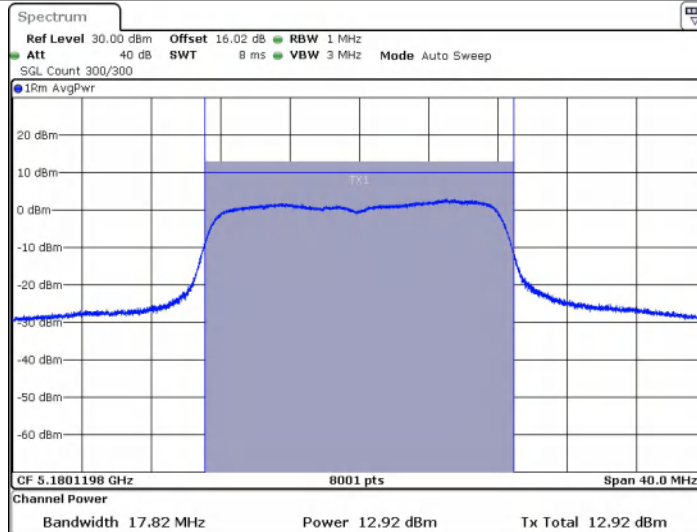


Measurement Data

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.92	≤23.98	PASS
		5200	12.69	≤23.98	PASS
		5240	13.22	≤23.98	PASS
		5260	12.62	≤23.98	PASS
		5280	9.33	≤23.98	PASS
		5320	13.37	≤23.84	PASS
		5500	11.42	≤23.98	PASS
		5580	12.10	≤23.98	PASS
		5700	6.00	≤23.98	PASS
		5745	6.73	≤30.00	PASS
		5785	6.68	≤30.00	PASS
		5825	2.09	≤30.00	PASS
11N20SISO	Ant1	5180	12.85	≤23.98	PASS
		5200	12.69	≤23.98	PASS
		5240	13.18	≤23.98	PASS
		5260	12.63	≤23.98	PASS
		5280	9.38	≤23.98	PASS
		5320	13.38	≤23.98	PASS
		5500	11.35	≤23.98	PASS
		5580	12.05	≤23.98	PASS
		5700	4.47	≤23.98	PASS
		5745	6.75	≤30.00	PASS
		5785	6.67	≤30.00	PASS
		5825	2.14	≤30.00	PASS
11N40SISO	Ant1	5190	11.07	≤23.98	PASS
		5230	10.27	≤23.98	PASS
		5270	9.58	≤23.98	PASS
		5310	10.83	≤23.98	PASS
		5510	9.77	≤23.98	PASS
		5550	10.13	≤23.98	PASS
		5670	5.17	≤23.98	PASS
		5755	3.52	≤30.00	PASS
		5795	4.80	≤30.00	PASS
11AC20SIS	Ant1	5180	12.89	≤23.98	PASS

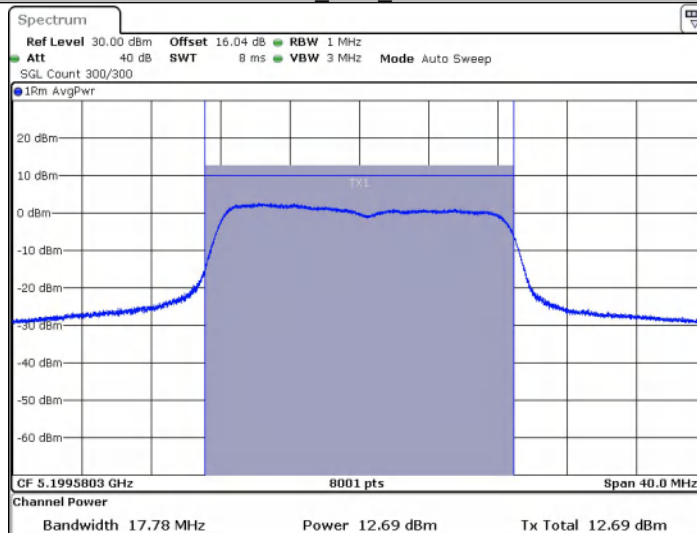
	O		5200	12.63	≤ 23.98	PASS
			5240	13.17	≤ 23.98	PASS
			5260	12.60	≤ 23.97	PASS
			5280	9.35	≤ 23.98	PASS
			5320	13.35	≤ 23.95	PASS
			5500	11.37	≤ 23.98	PASS
			5580	12.07	≤ 23.98	PASS
			5700	5.64	≤ 23.98	PASS
			5745	6.73	≤ 30.00	PASS
			5785	6.71	≤ 30.00	PASS
			5825	2.13	≤ 30.00	PASS
	11AC40SIS O	Ant1	5190	11.03	≤ 23.98	PASS
			5230	10.23	≤ 23.98	PASS
			5270	9.61	≤ 23.98	PASS
			5310	10.91	≤ 23.98	PASS
			5510	9.77	≤ 23.98	PASS
			5550	10.11	≤ 23.98	PASS
			5670	4.93	≤ 23.98	PASS
			5755	3.53	≤ 30.00	PASS
			5795	4.85	≤ 30.00	PASS
	11AC80SIS O	Ant1	5210	10.82	≤ 23.98	PASS
			5290	10.64	≤ 23.98	PASS
			5530	10.20	≤ 23.98	PASS
			5775	4.82	≤ 30.00	PASS

11A_Ant1_5180



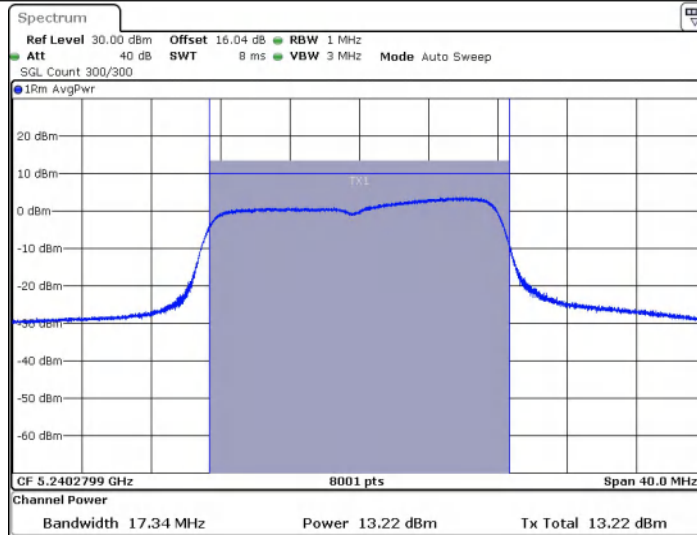
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11A_Ant1_5200



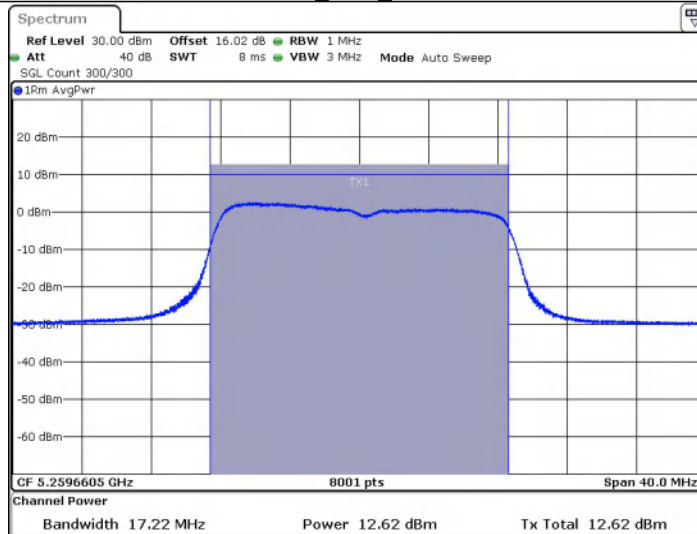
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11A_Ant1_5240



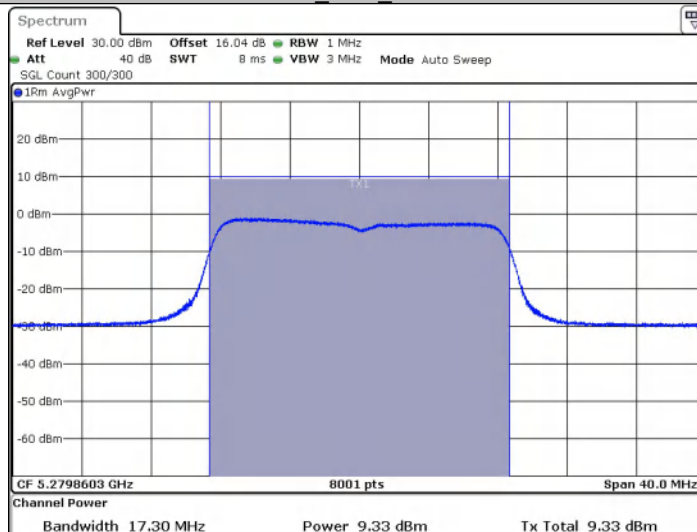
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11A_Ant1_5260



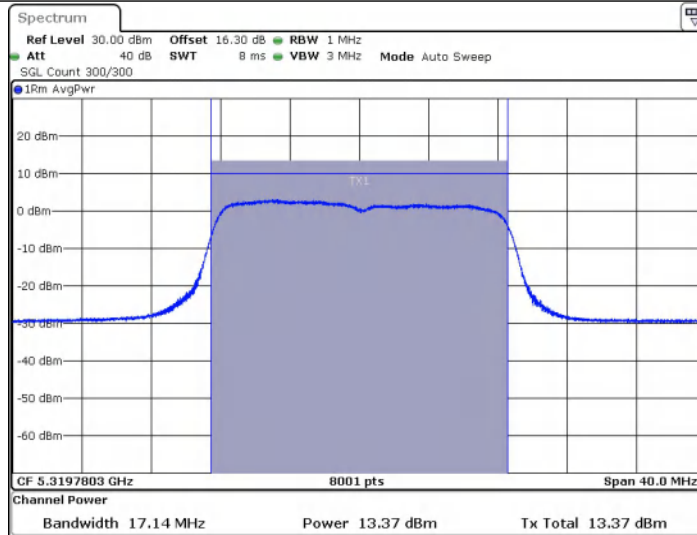
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11A_Ant1_5280



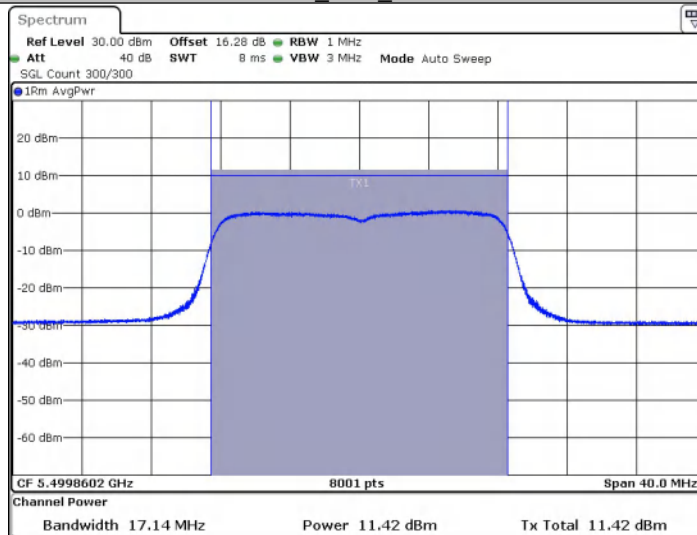
Date: 22 MAR 2025 15:48:41

11A_Ant1_5320



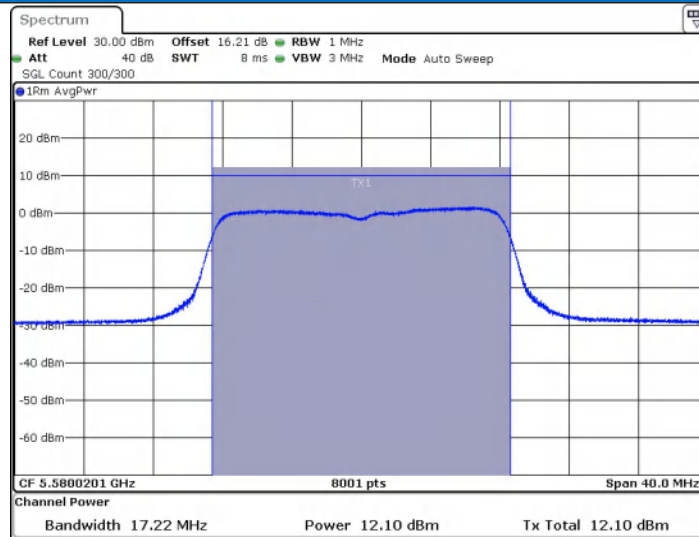
Date: 22 MAR 2025 15:47:11

11A_Ant1_5500



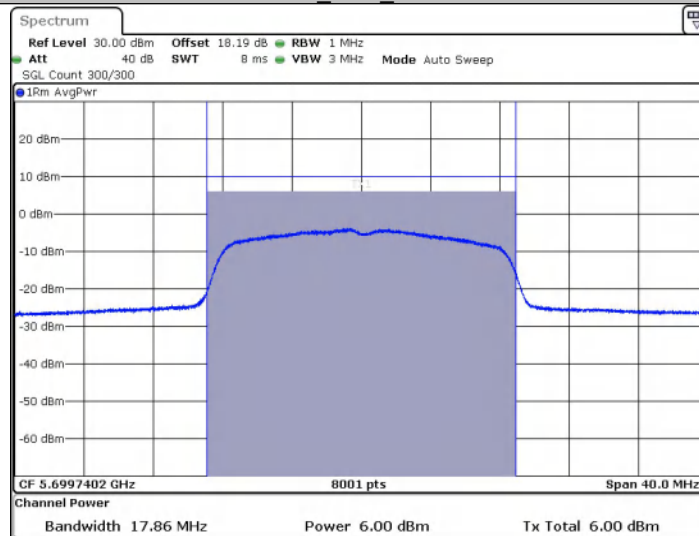
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11A_Ant1_5580



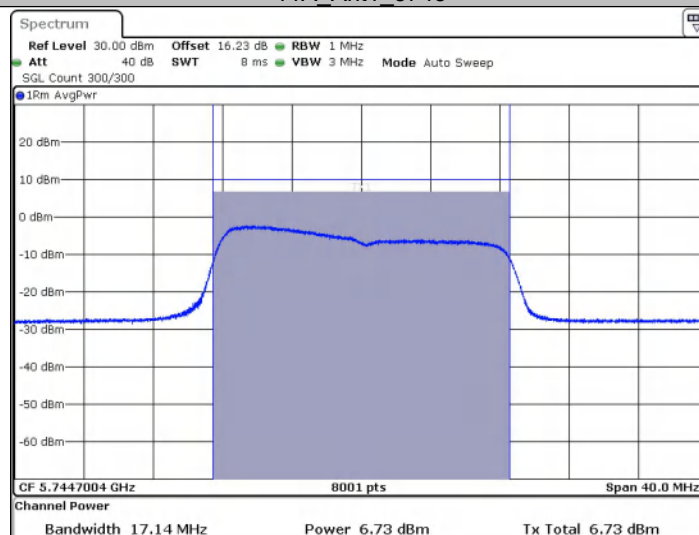
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11A_Ant1_5700



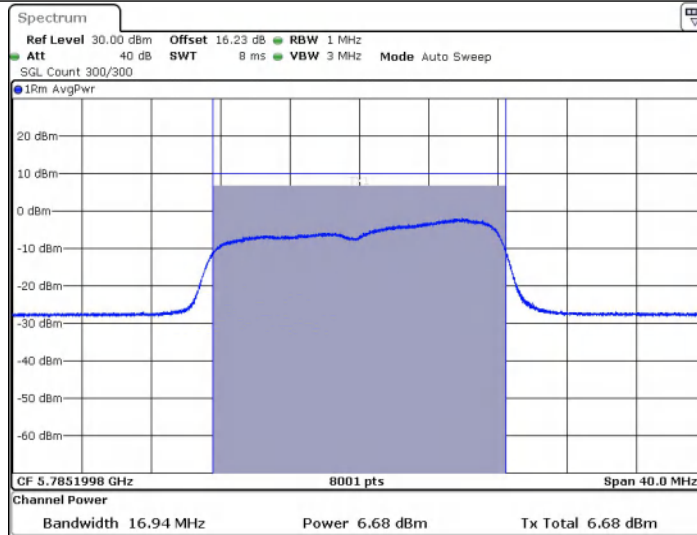
Date: 9 JUN 2025 11:25:43

11A_Ant1_5745



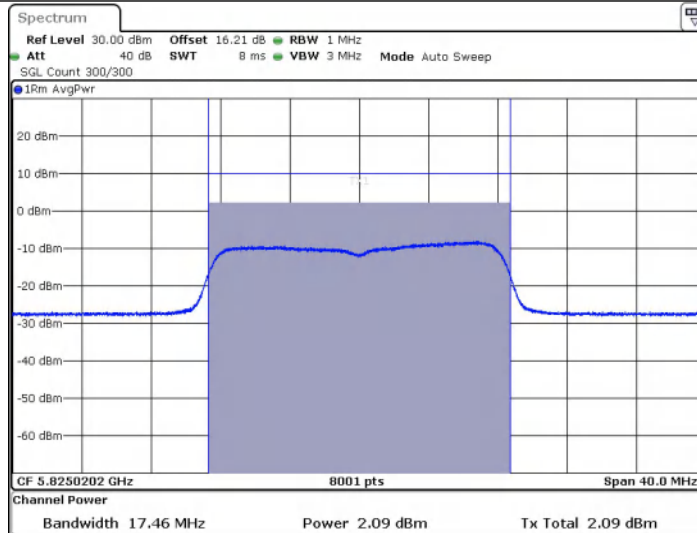
Date: 22 MAR 2025 15:55:11

11A_Ant1_5785



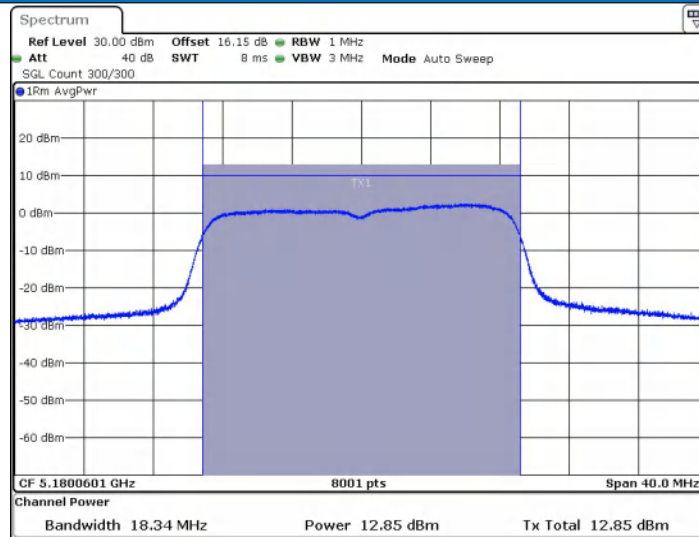
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11A_Ant1_5825



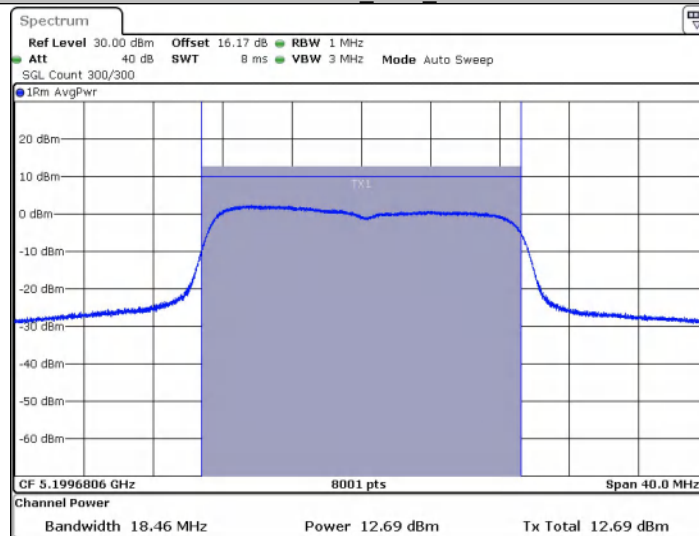
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11N20SISO_Ant1_5180



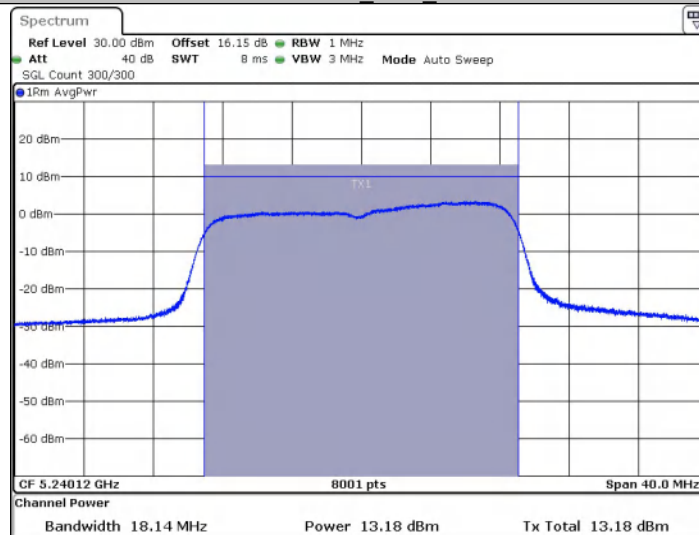
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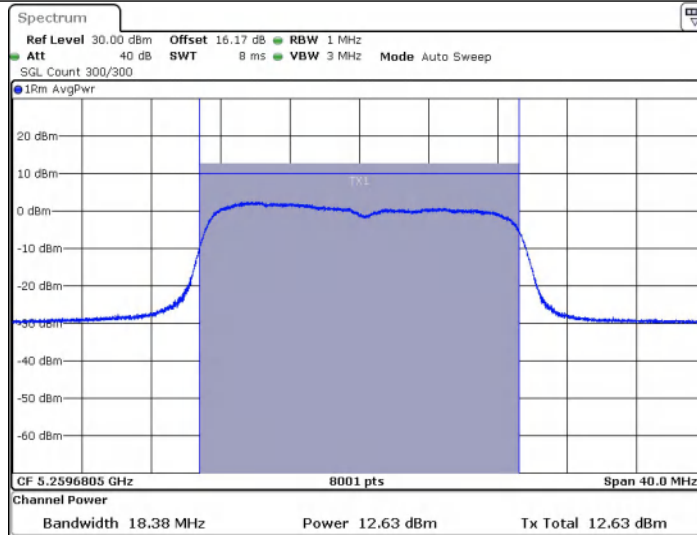
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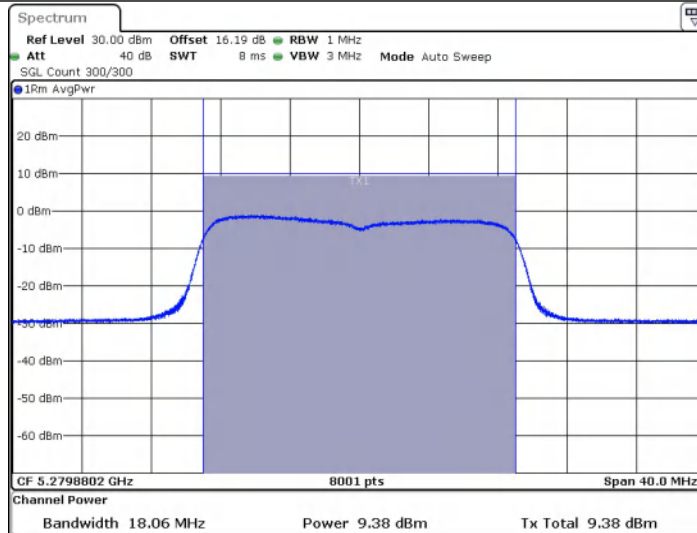
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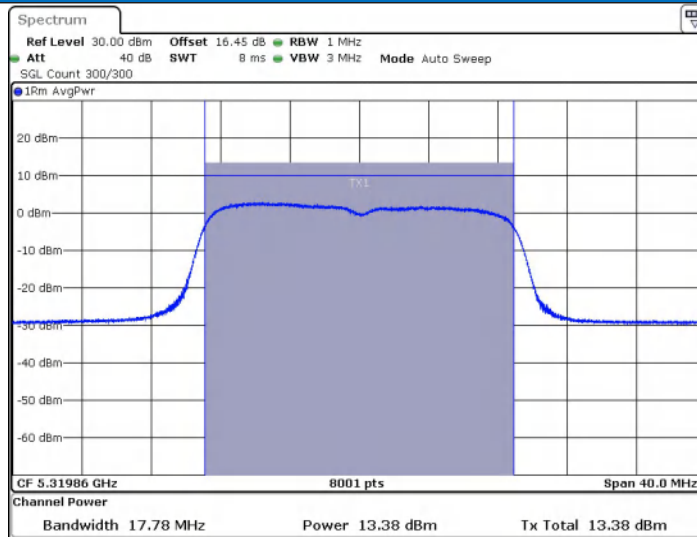
Date: 22 MAR 2025 16:04:30

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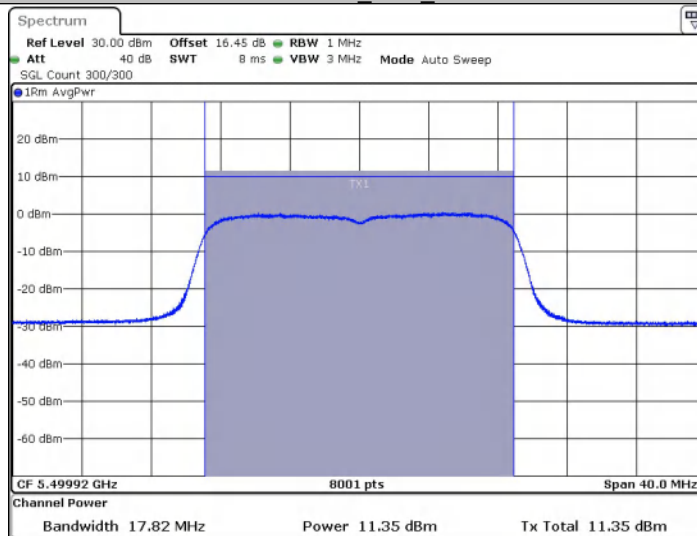
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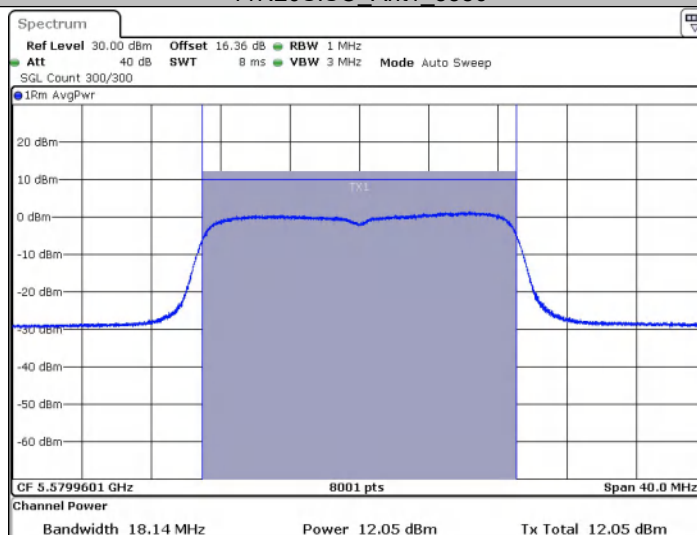
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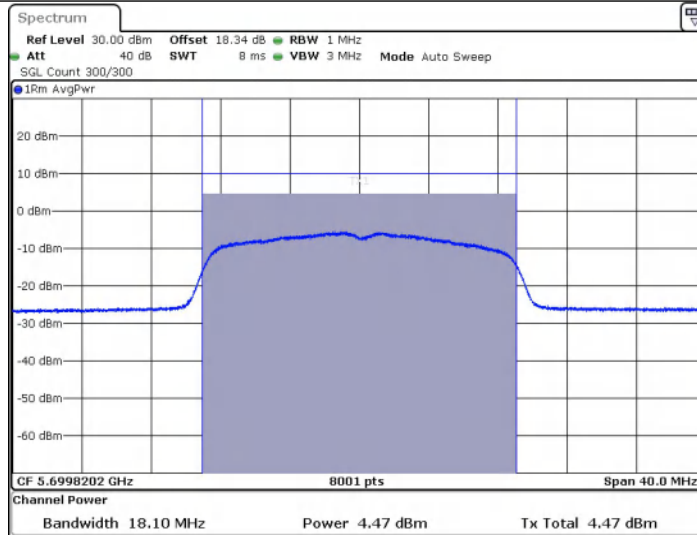
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11N20SISO_Ant1_5580



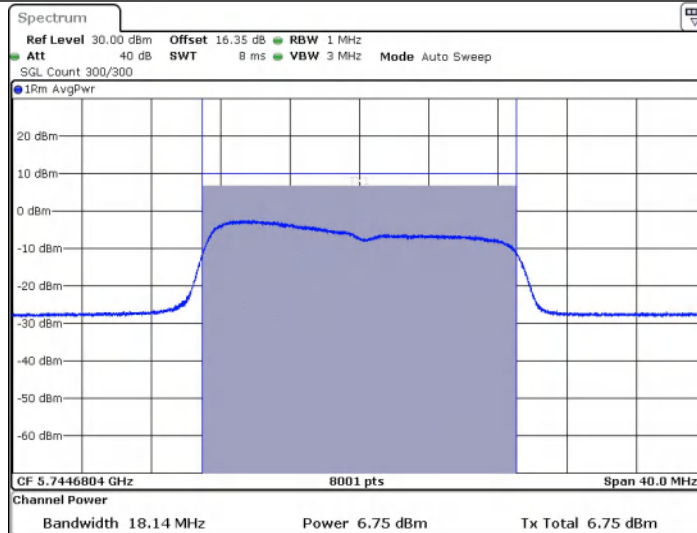
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11N20SISO_Ant1_5700



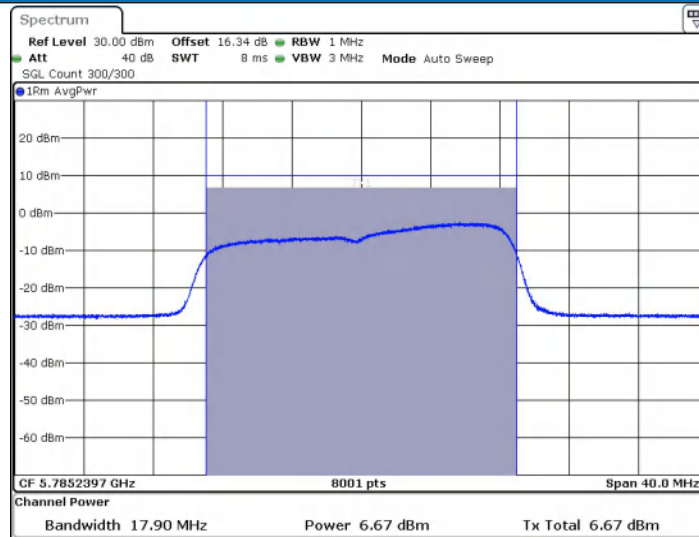
Date: 9 JUN 2025 11:29:43

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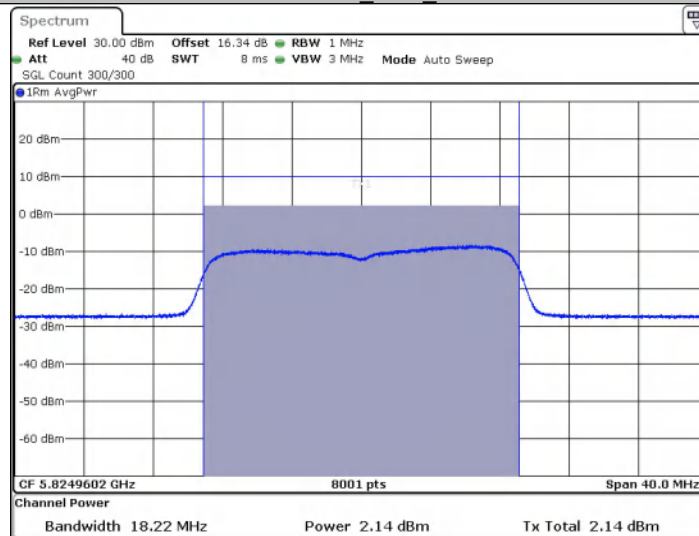
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11N20SISO_Ant1_5785



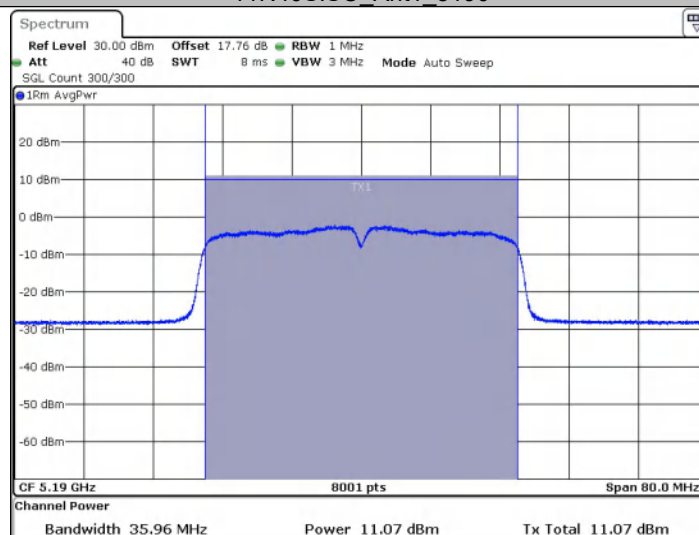
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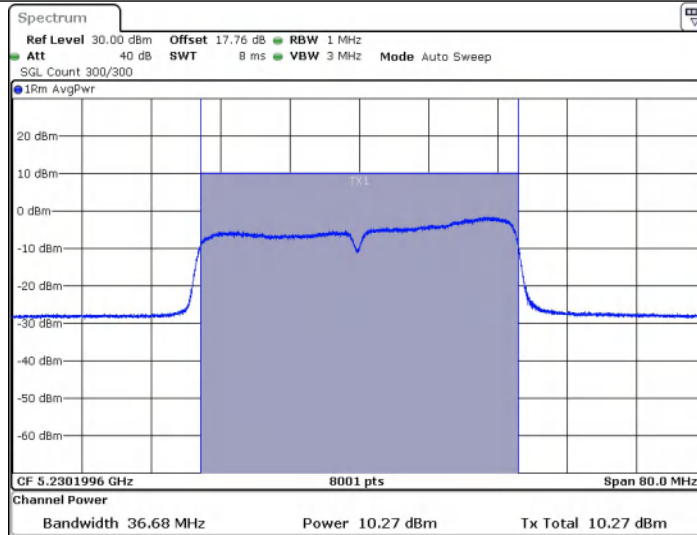
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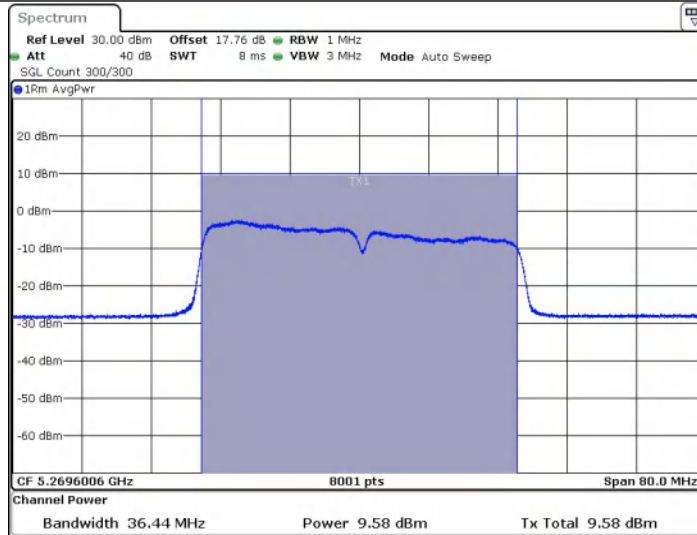


Date: 22 MAR 2025 16:18:20

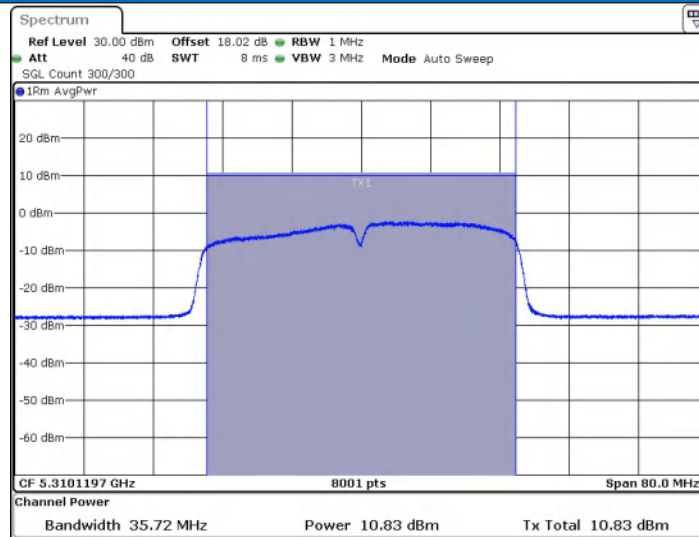
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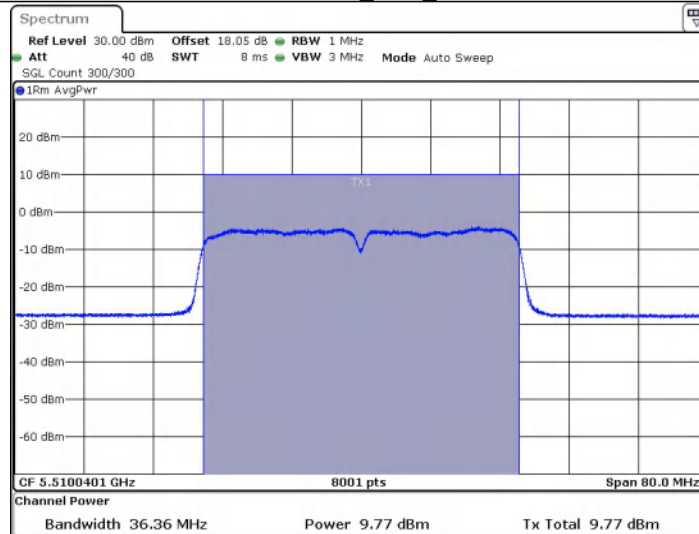


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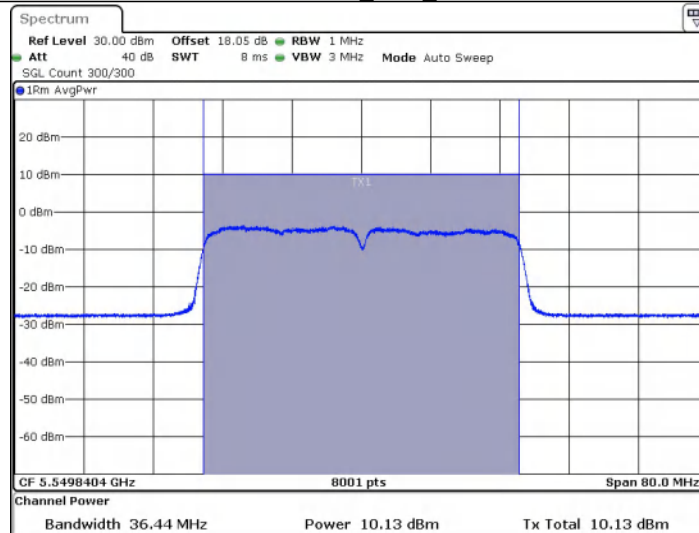
Date: 22 MAR 2025 16:22:19

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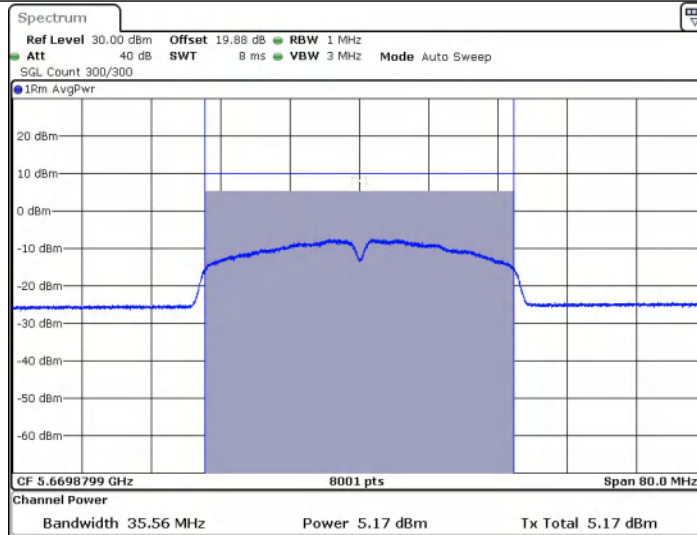
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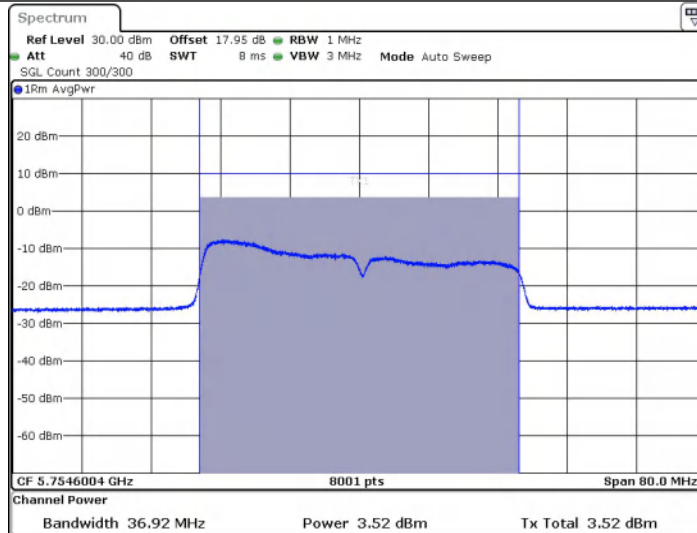
Date: 22 MAR 2025 16:25:04

11N40SISO_Ant1_5670



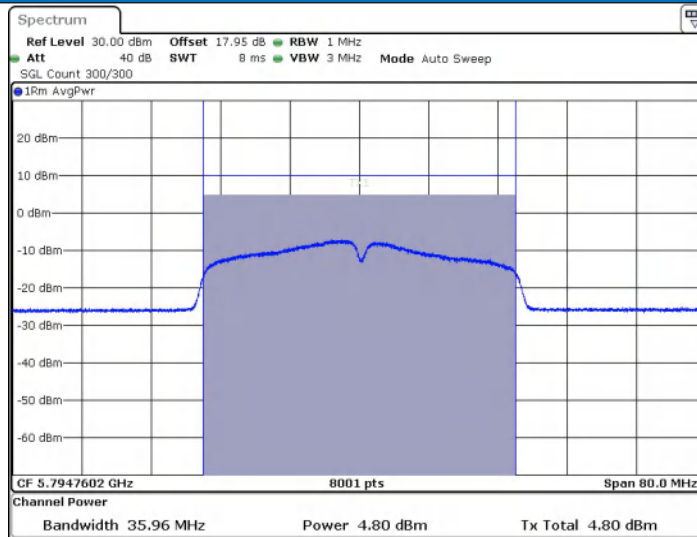
Date: 9 JUN 2025 11:32:04

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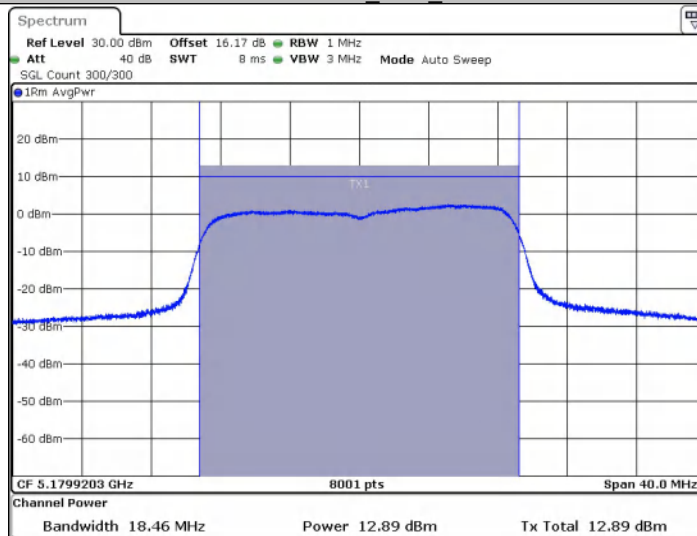
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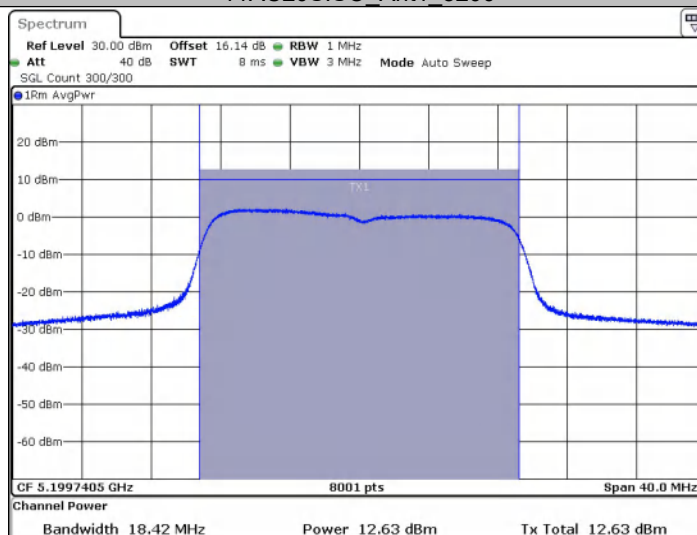
Date: 22 MAR 2025 16:29:32

11AC20SISO_Ant1_5180



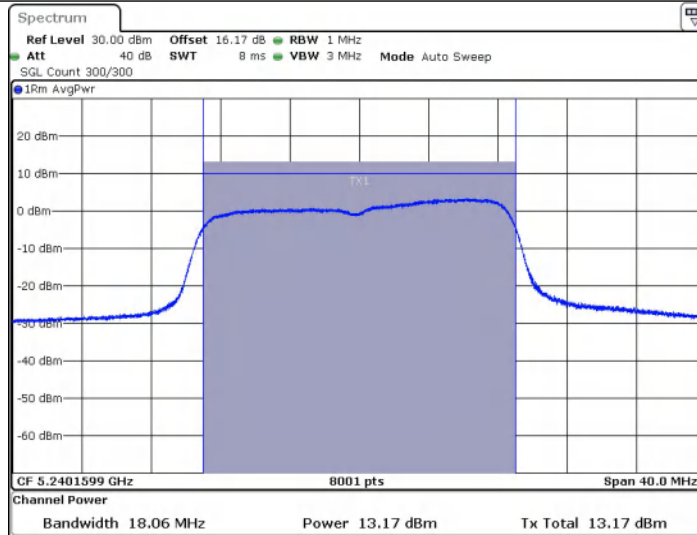
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11AC20SISO_Ant1_5200



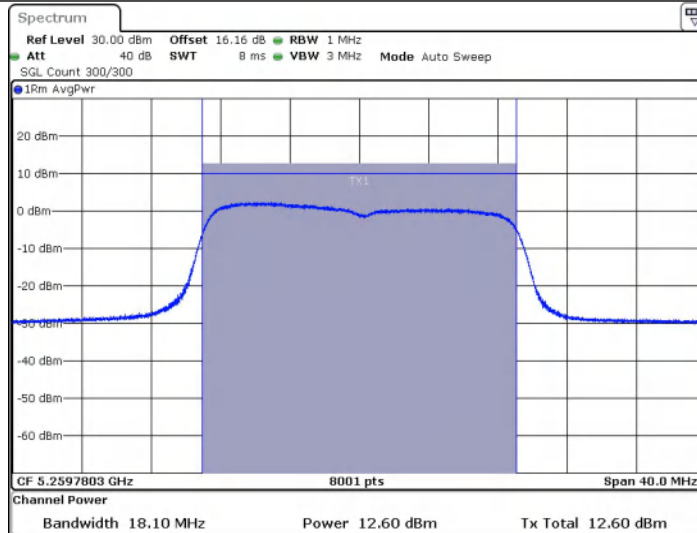
Date: 22 MAR 2025 16:33:42

11AC20SISO_Ant1_5240



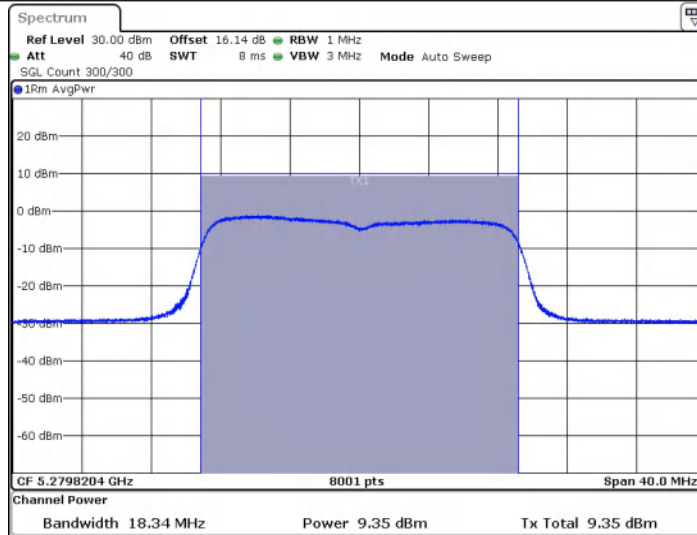
Date: 22 MAR 2025 16:35:02

11AC20SISO_Ant1_5260



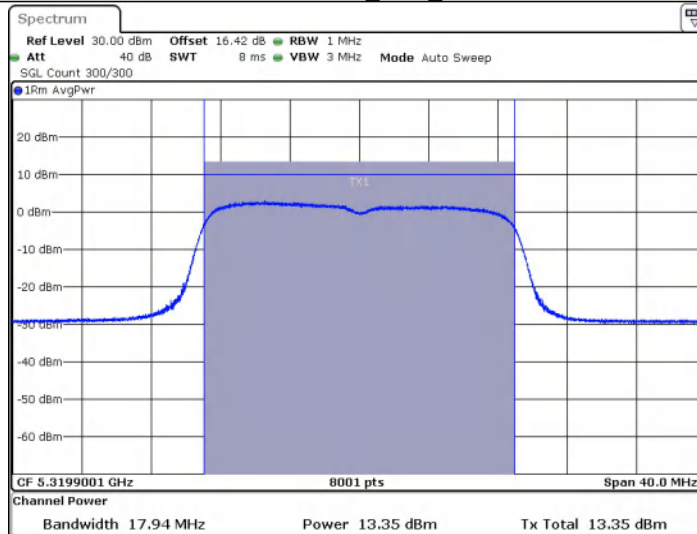
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11AC20SISO_Ant1_5280



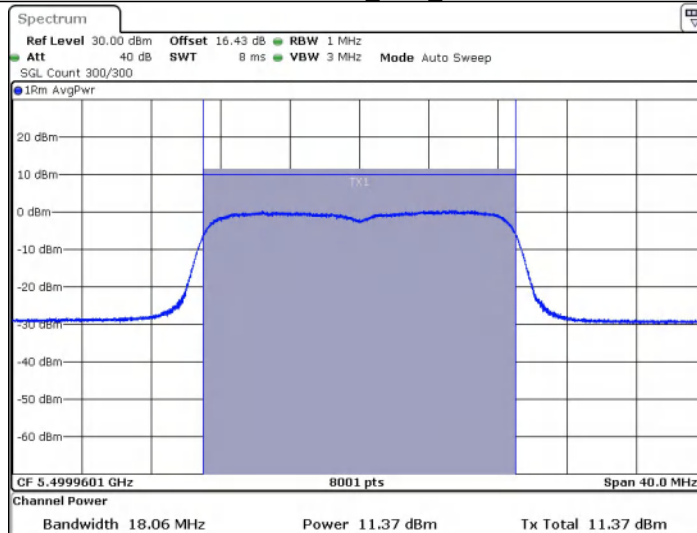
Date: 22 MAR 2025 16:38:02

11AC20SISO_Ant1_5320



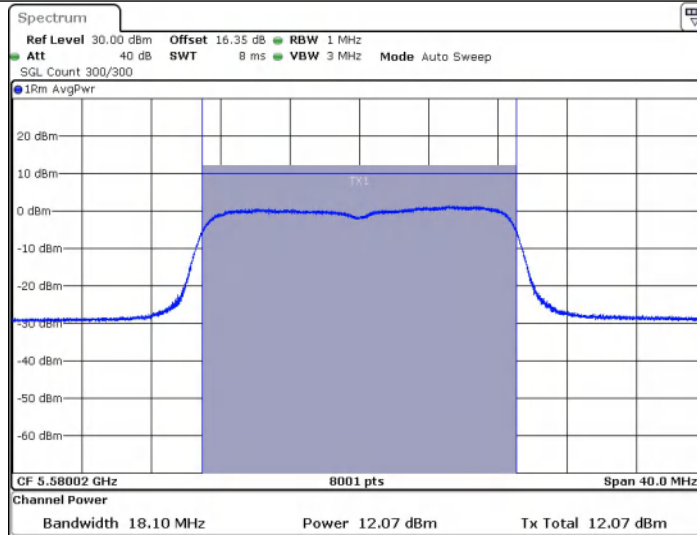
Date: 22 MAR 2025 16:38:11

11AC20SISO_Ant1_5500

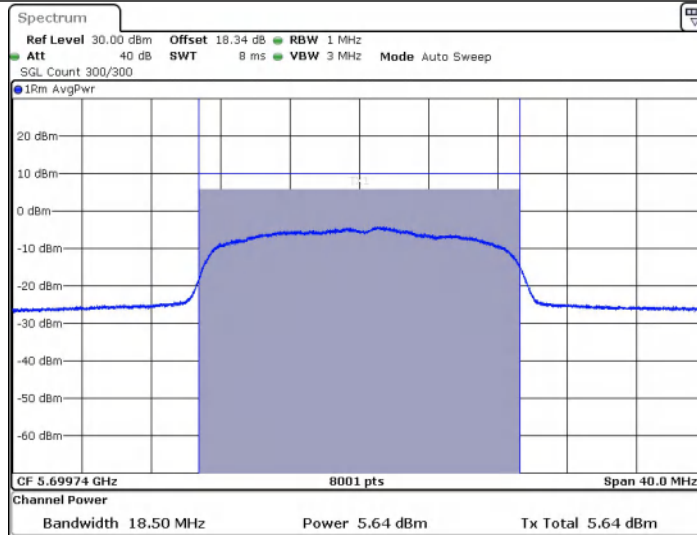


Date: 22 MAR 2025 16:40:29

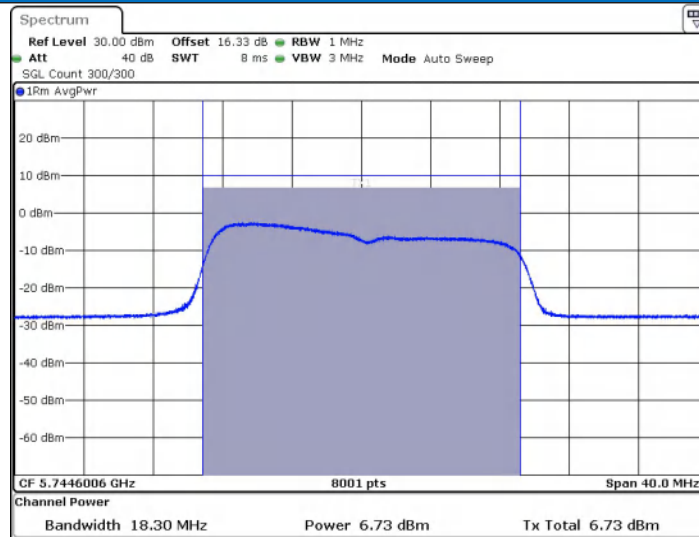
11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700

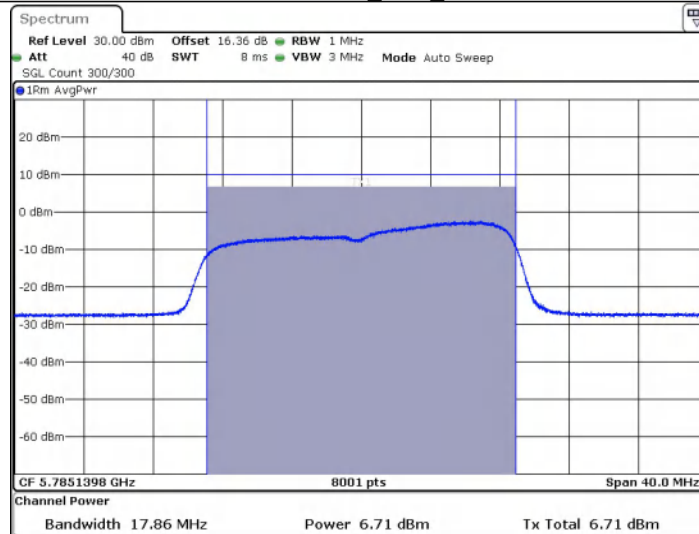


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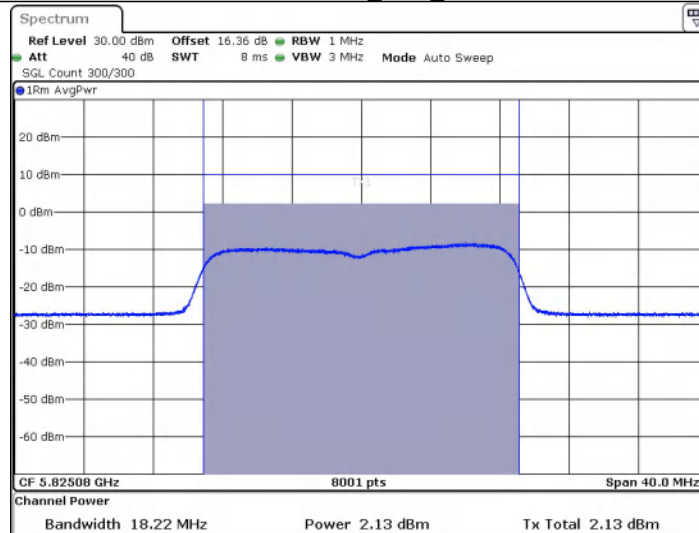
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11AC20SISO_Ant1_5785



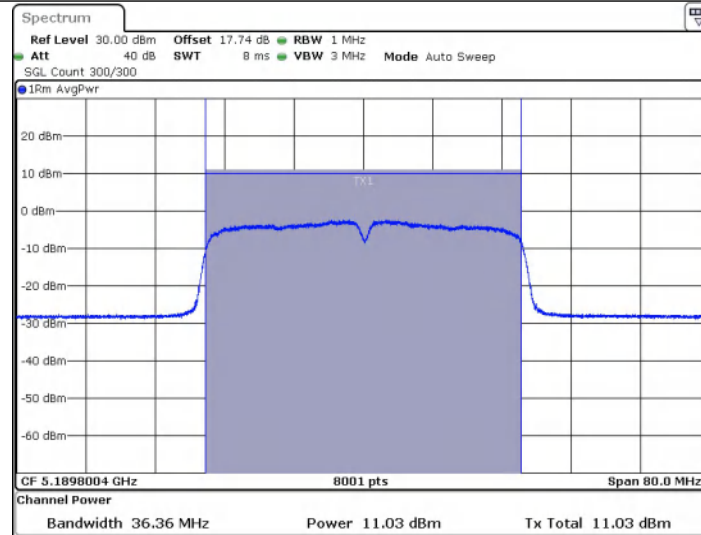
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11AC20SISO_Ant1_5825



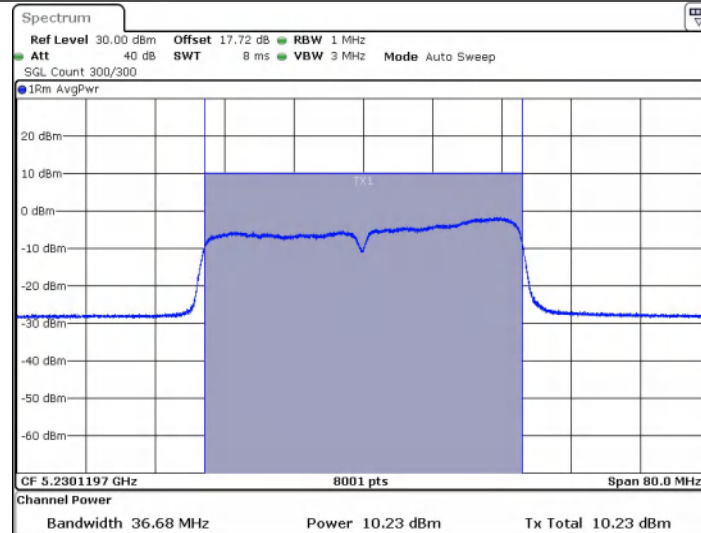
Date: 22 MAR 2025 16:47:20

11AC40SISO_Ant1_5190



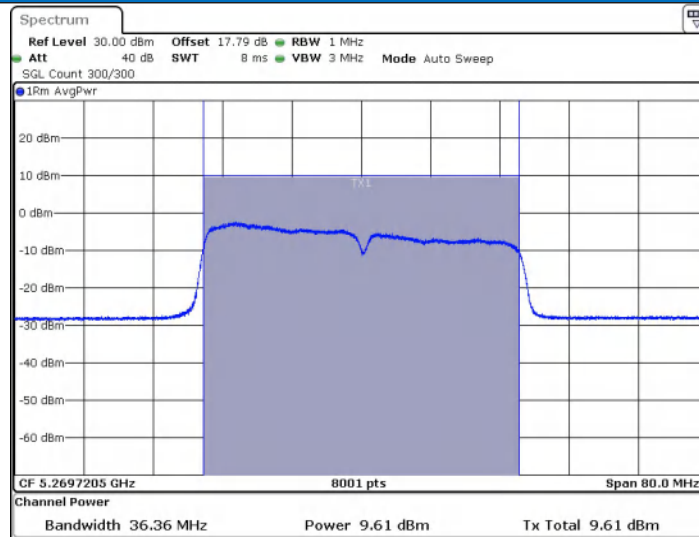
Date: 22 MAR 2025 16:48:52

11AC40SISO_Ant1_5230



Date: 22 MAR 2025 16:50:31

11AC40SISO_Ant1_5270



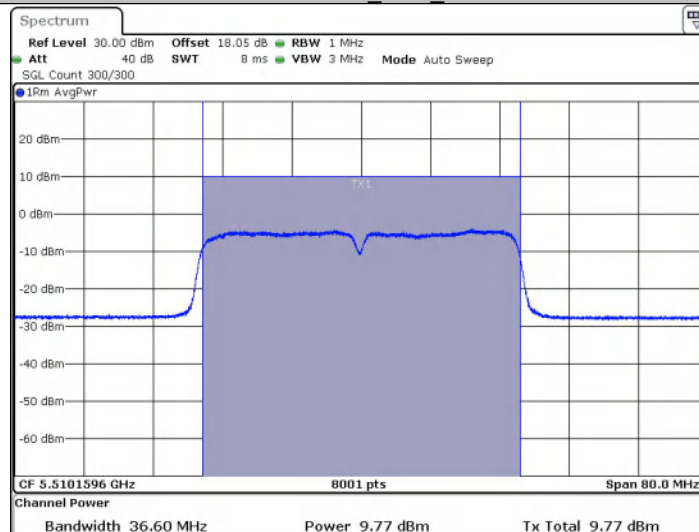
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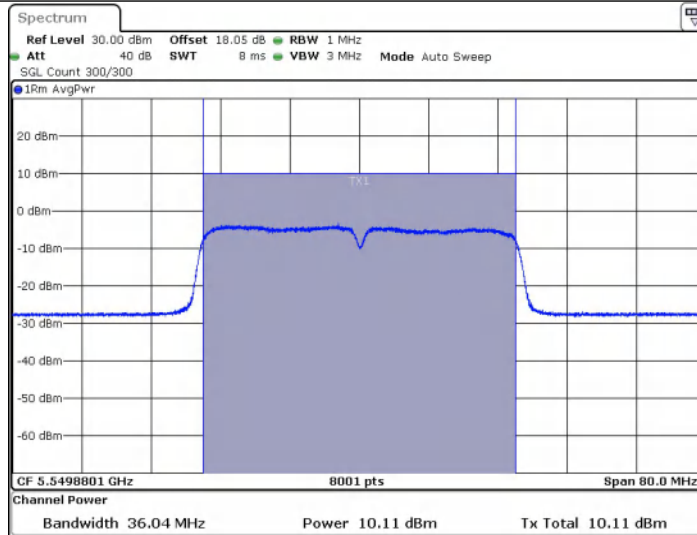
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11AC40SISO_Ant1_5510



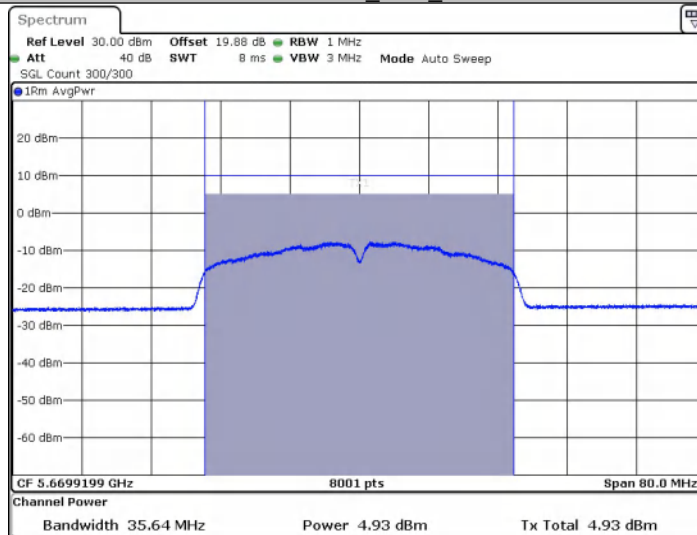
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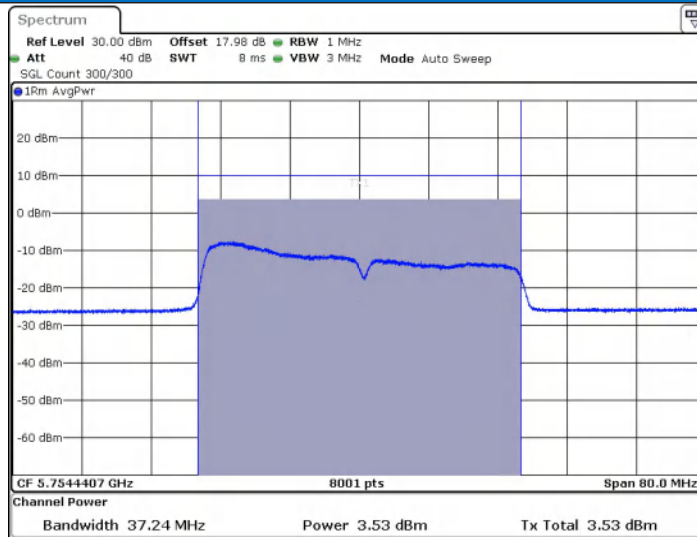
Date: 22 MAR 2025 17:00:20

11AC40SISO_Ant1_5670



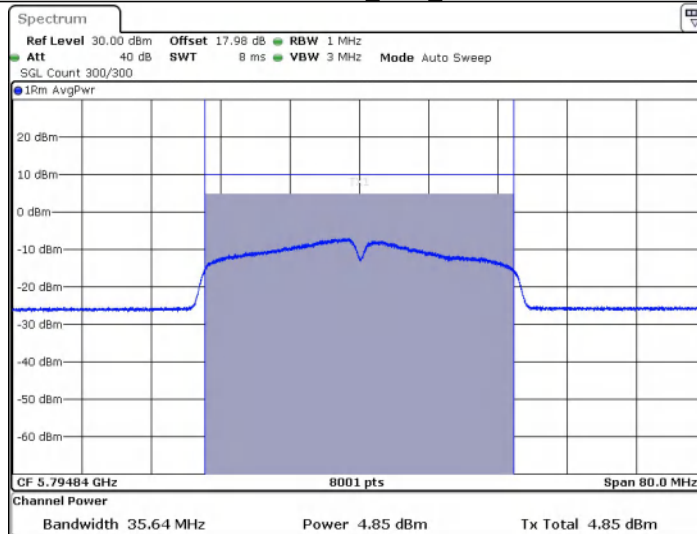
Date: 9 JUN 2025 11:34:02

11AC40SISO_Ant1_5755



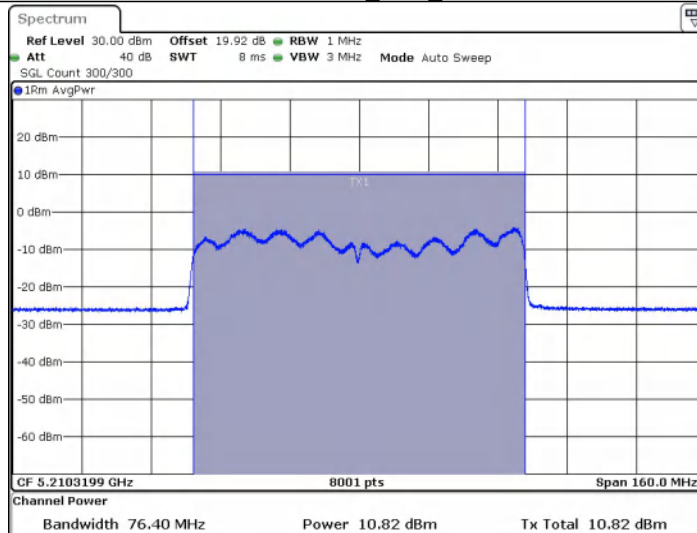
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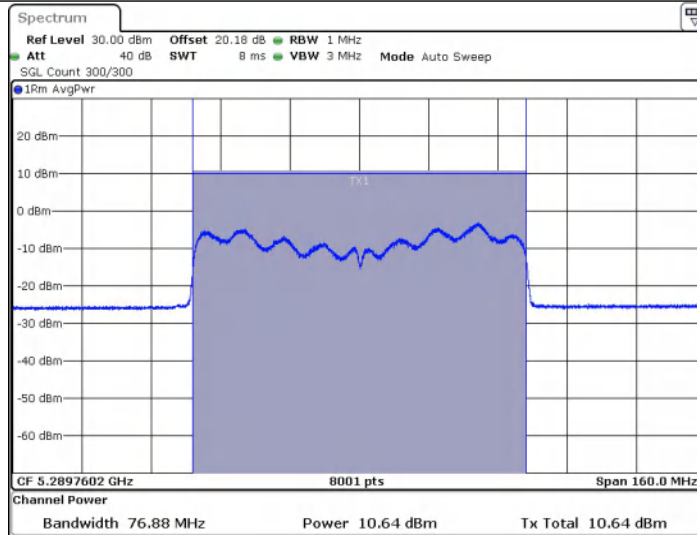
Date: 22 MAR 2025 17:05:21

11AC80SISO_Ant1_5210



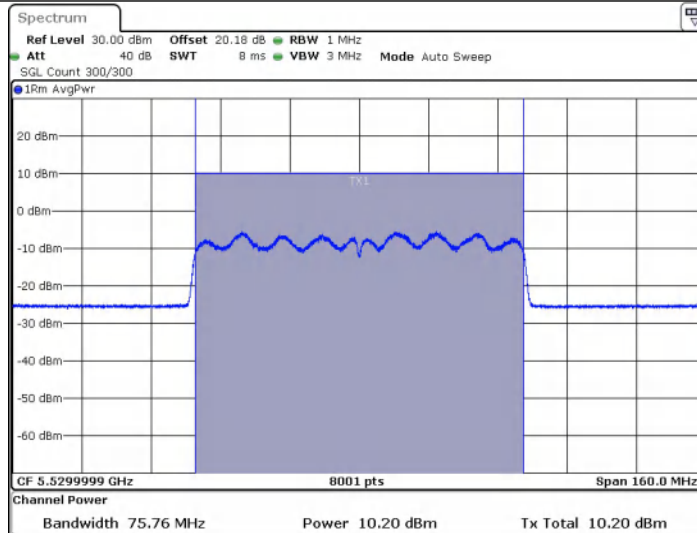
Date: 22 MAR 2025 17:07:21

11AC80SISO_Ant1_5290



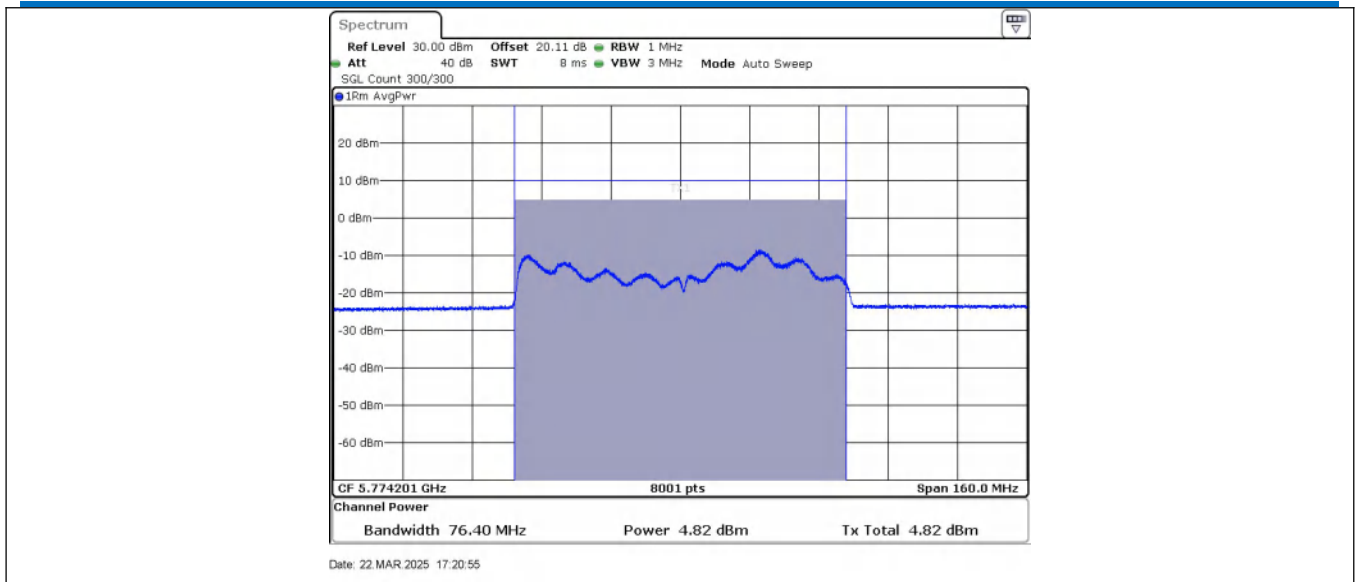
Date: 22 MAR 2025 17:09:15

11AC80SISO_Ant1_5530



Date: 22 MAR 2025 17:11:10

11AC80SISO_Ant1_5775



Remark:

$Av.Power = Meas.Level + 10 \log(1/duty\ cycle)$

$E.i.r.p = Av.Power + G$,

G = antenna gain in dBi.

Appendix C): Maximum Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Test Procedure:

For 5150-5725MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 1MHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

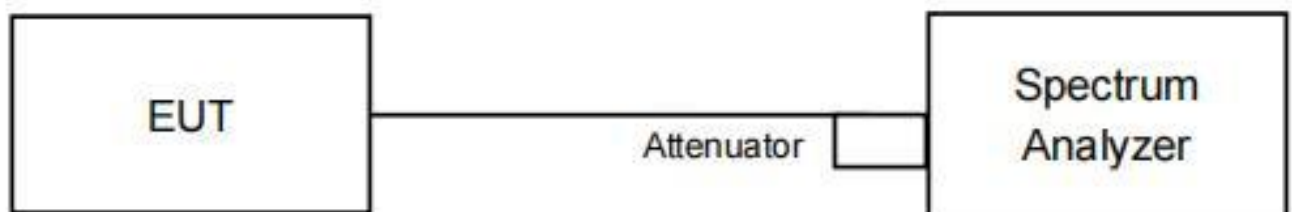
For 5725-5850MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 500KHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 17\text{dBm}$ in 1MHz for master device
	$\leq 11\text{dBm}$ in 1MHz for client device
5250-5350	$\leq 11\text{dBm}$ in 1MHz for client device
5470-5725	$\leq 11\text{dBm}$ in 1MHz for client device
5725-5850	$\leq 30\text{dBm}$ in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

Test Setup Diagram



Result Table

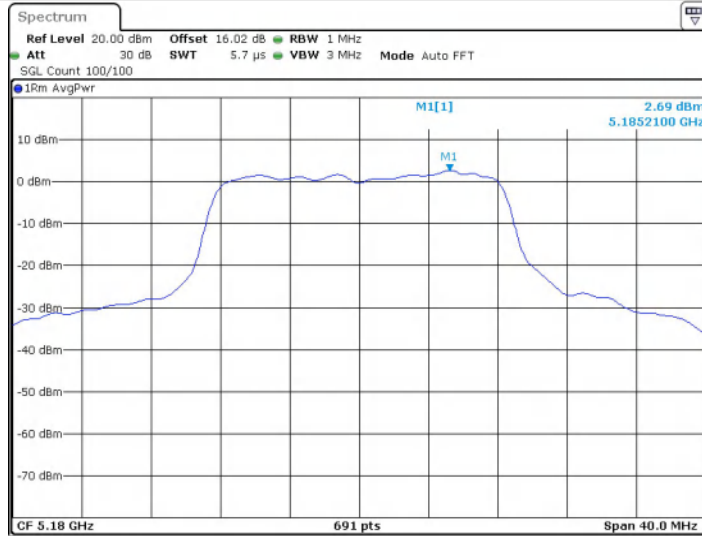
TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	2.69	≤11.00	PASS
	5200	3.00	≤11.00	PASS
	5240	3.21	≤11.00	PASS
	5260	2.71	≤11.00	PASS
	5280	-0.18	≤11.00	PASS
	5320	2.62	≤11.00	PASS
	5500	0.35	≤11.00	PASS
	5580	1.91	≤11.00	PASS
	5700	-4.99	≤11.00	PASS
	5745	-5.11	≤30.00	PASS
	5785	-5.55	≤30.00	PASS
	5825	-10.22	≤30.00	PASS
11N20SISO	5180	3.09	≤11.00	PASS
	5200	1.70	≤11.00	PASS
	5240	3.52	≤11.00	PASS
	5260	2.29	≤11.00	PASS
	5280	-0.95	≤11.00	PASS
	5320	2.78	≤11.00	PASS
	5500	0.29	≤11.00	PASS
	5580	0.93	≤11.00	PASS
	5700	-5.91	≤11.00	PASS
	5745	-5.34	≤30.00	PASS
	5785	-5.27	≤30.00	PASS
	5825	-11.30	≤30.00	PASS
11N40SISO	5190	-2.13	≤11.00	PASS
	5230	-1.66	≤11.00	PASS
	5270	-3.33	≤11.00	PASS
	5310	-2.47	≤11.00	PASS
	5510	-3.84	≤11.00	PASS
	5550	-3.44	≤11.00	PASS
	5670	-8.05	≤11.00	PASS
	5755	-10.93	≤30.00	PASS
	5795	-10.25	≤30.00	PASS
11AC20SISO	5180	2.31	≤11.00	PASS
	5200	1.88	≤11.00	PASS

		5240	3.87	≤ 11.00	PASS
		5260	2.15	≤ 11.00	PASS
		5280	-1.03	≤ 11.00	PASS
		5320	2.29	≤ 11.00	PASS
		5500	0.20	≤ 11.00	PASS
		5580	0.37	≤ 11.00	PASS
		5700	-4.73	≤ 11.00	PASS
		5745	-5.74	≤ 30.00	PASS
		5785	-5.36	≤ 30.00	PASS
		5825	-11.47	≤ 30.00	PASS
	11AC40SISO	5190	-2.23	≤ 11.00	PASS
		5230	-1.56	≤ 11.00	PASS
		5270	-2.10	≤ 11.00	PASS
		5310	-1.36	≤ 11.00	PASS
		5510	-4.47	≤ 11.00	PASS
		5550	-2.91	≤ 11.00	PASS
		5670	-6.98	≤ 11.00	PASS
		5755	-10.62	≤ 30.00	PASS
		5795	-10.84	≤ 30.00	PASS
	11AC80SISO	5210	-3.15	≤ 11.00	PASS
		5290	-4.05	≤ 11.00	PASS
		5530	-5.10	≤ 11.00	PASS
		5775	-11.65	≤ 30.00	PASS

Remark:

PSD = Meas PSD + Duty Cycle Factor

11A_Ant1_5180



Date: 22. MAR 2025 15:35:58

11A_Ant1_5200

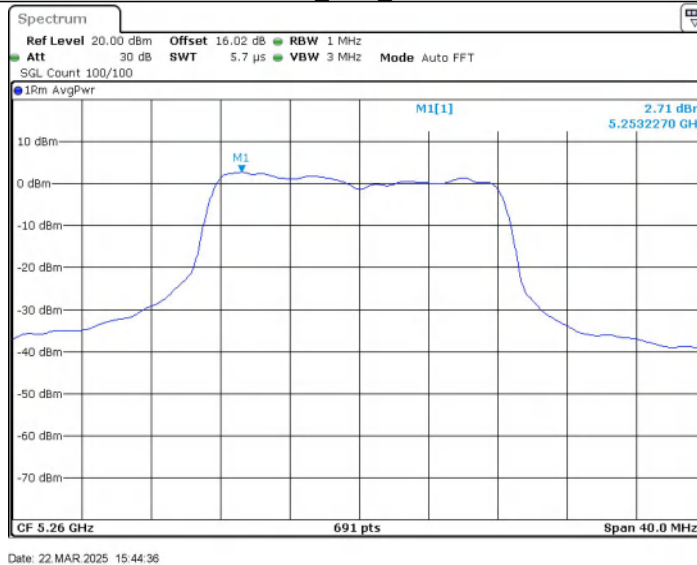


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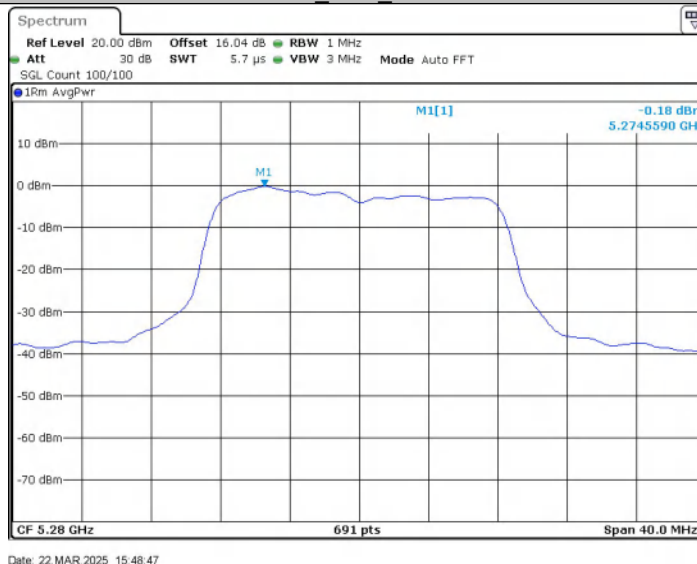
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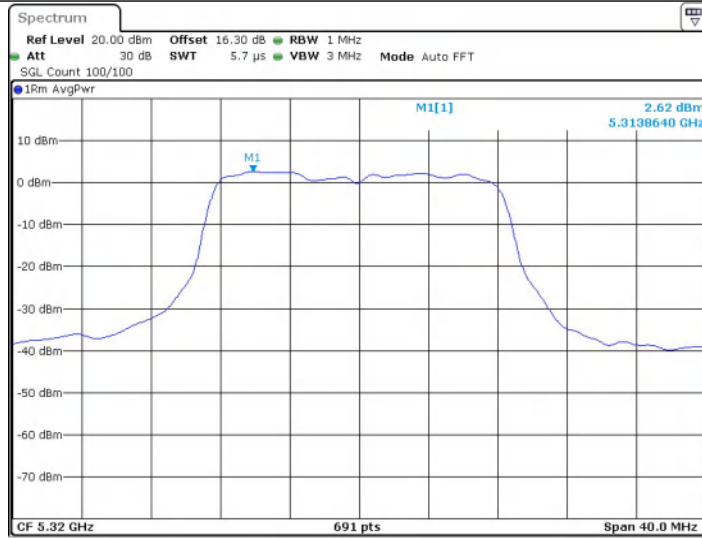
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11A_Ant1_5280

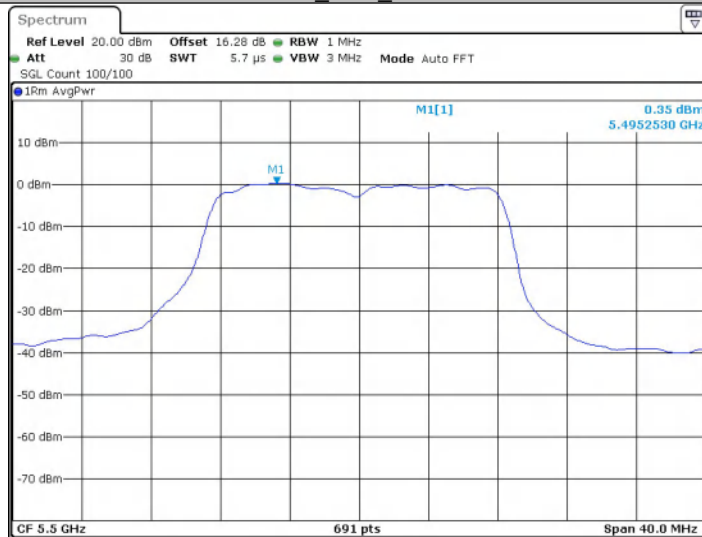


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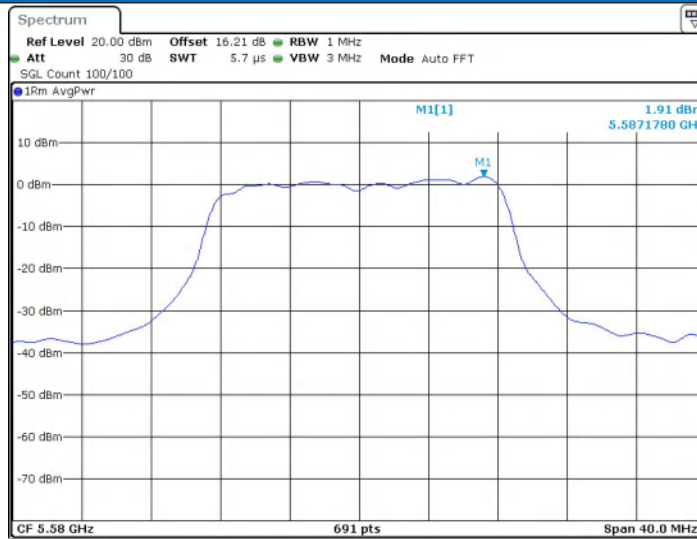
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11A_Ant1_5500



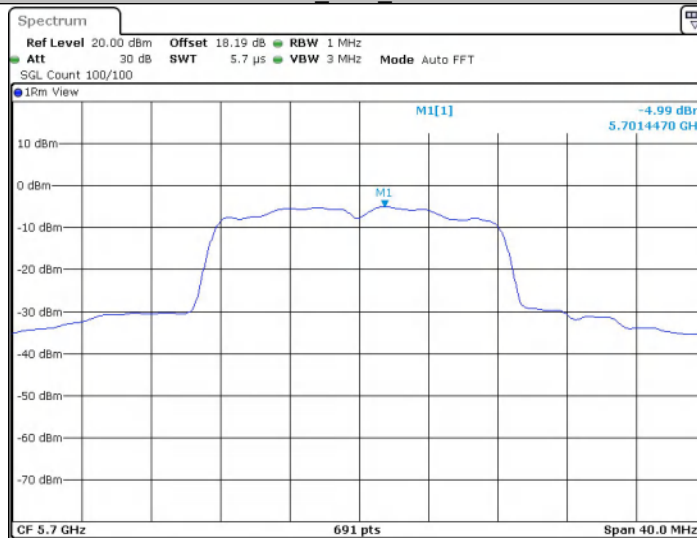
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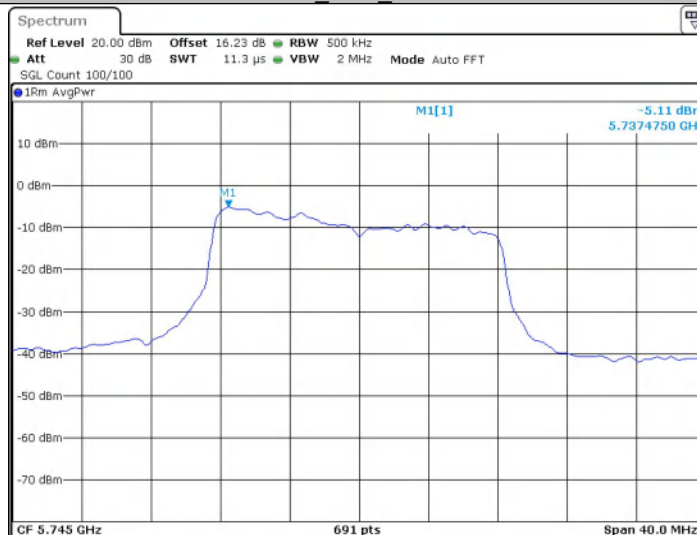
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11A_Ant1_5700



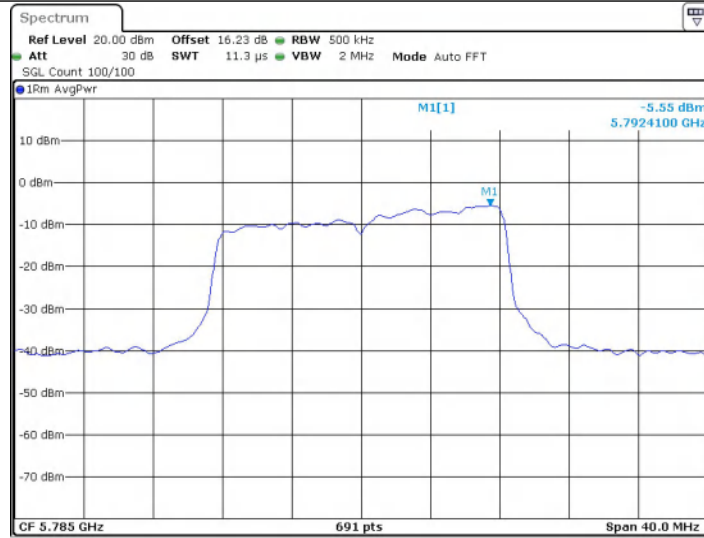
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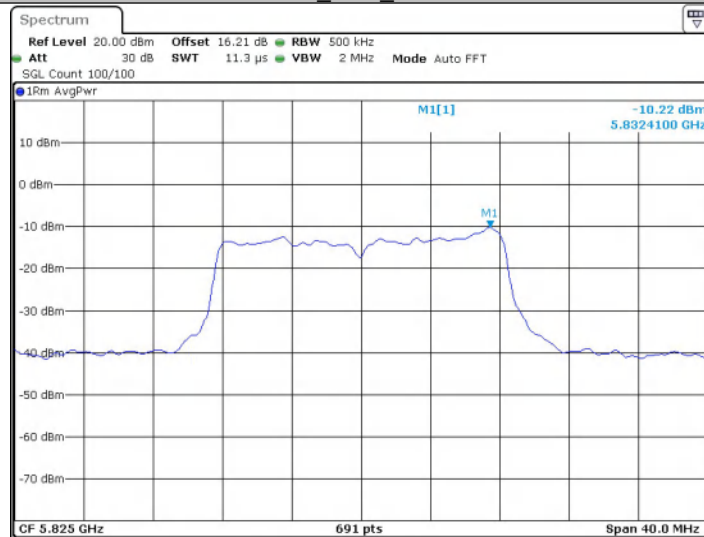
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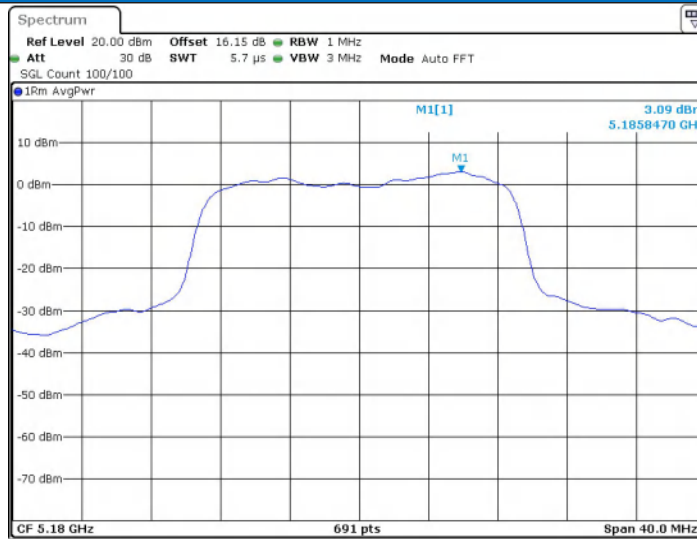
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11A_Ant1_5825



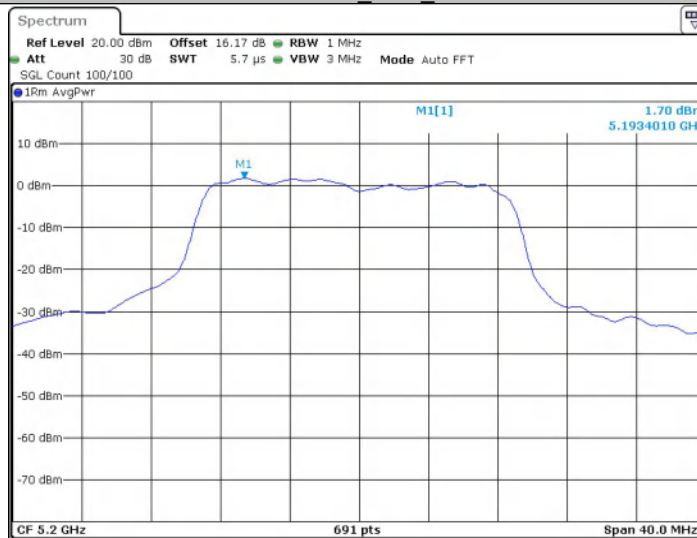
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11N20SISO_Ant1_5180



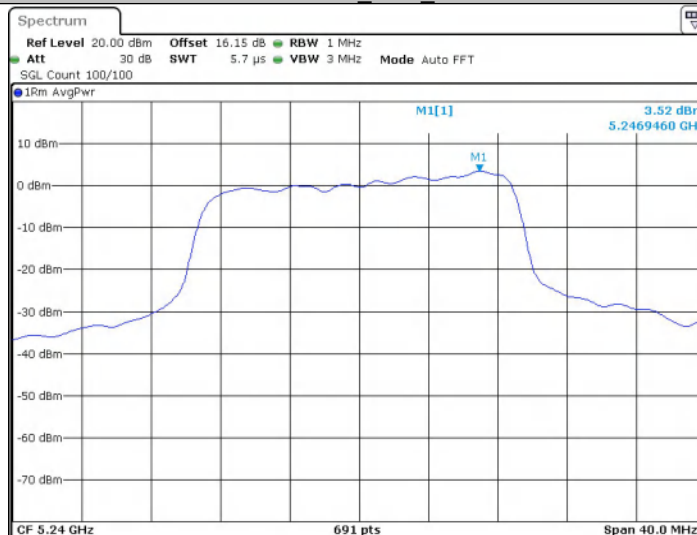
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11N20SISO_Ant1_5200



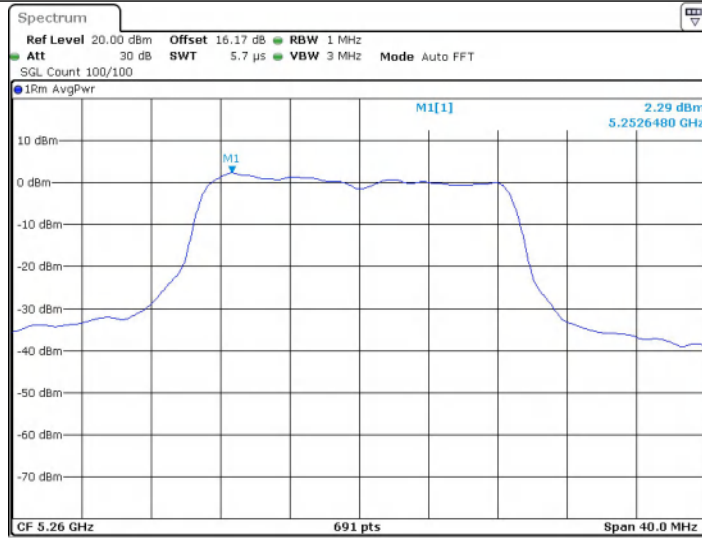
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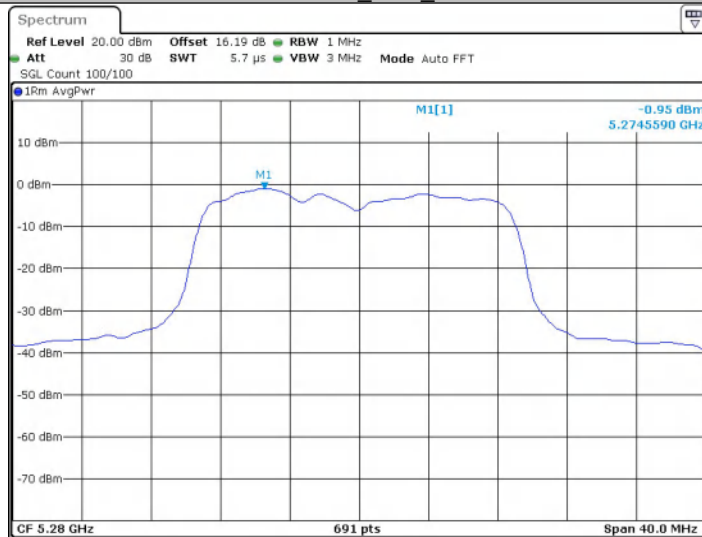
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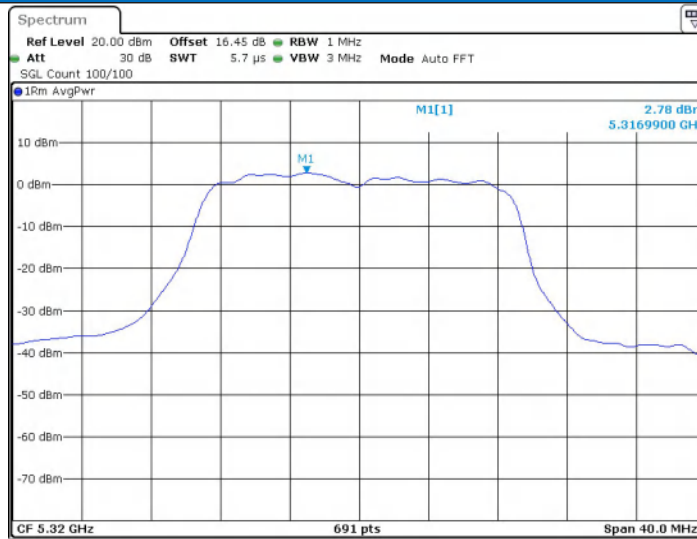
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11N20SISO_Ant1_5280



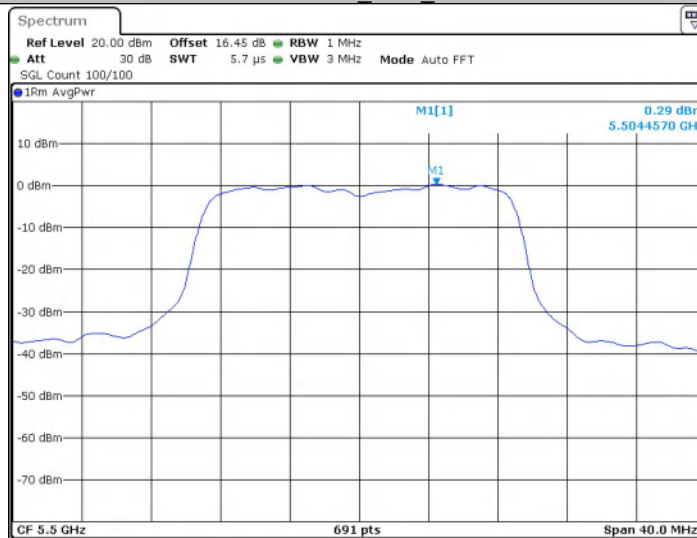
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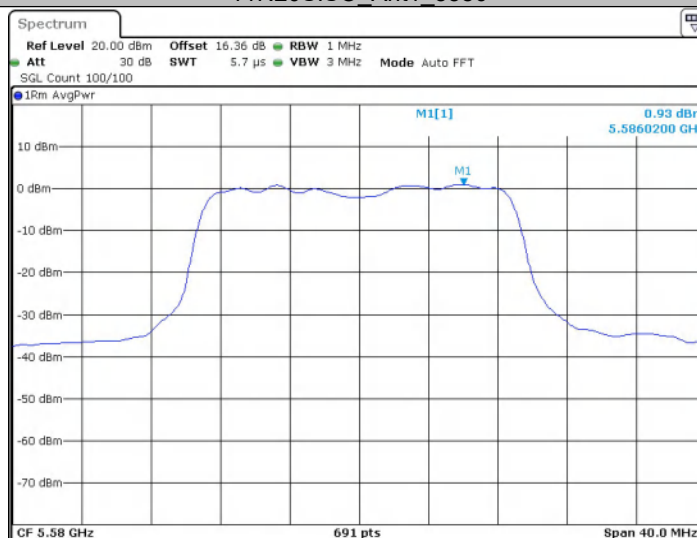
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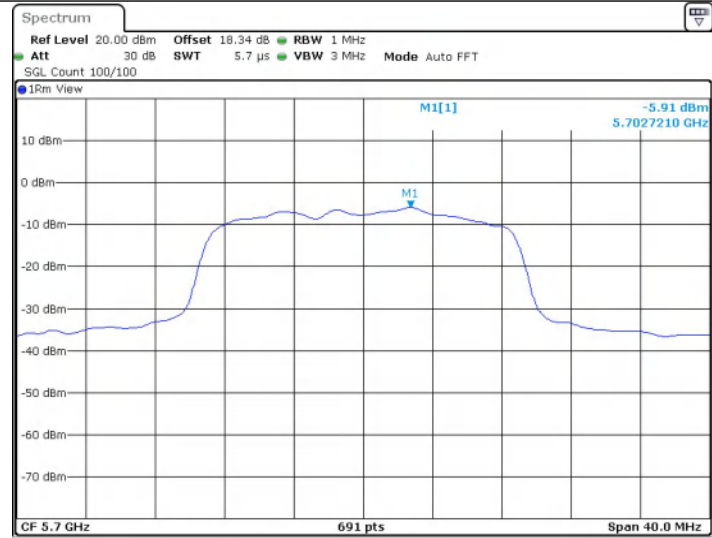
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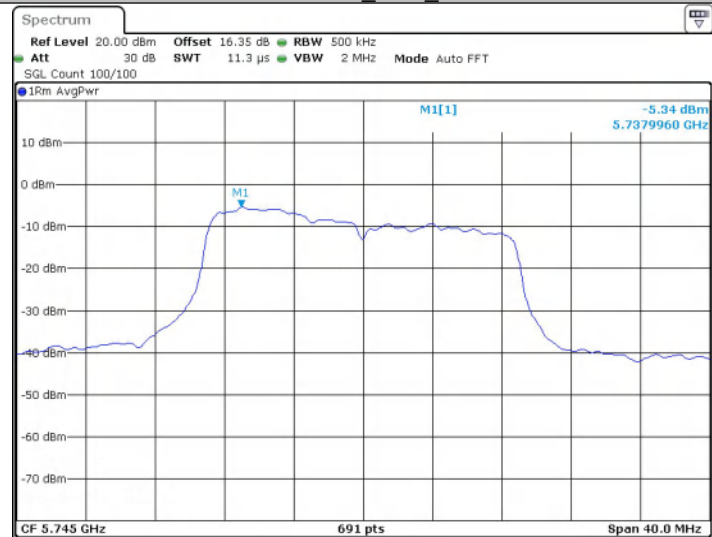
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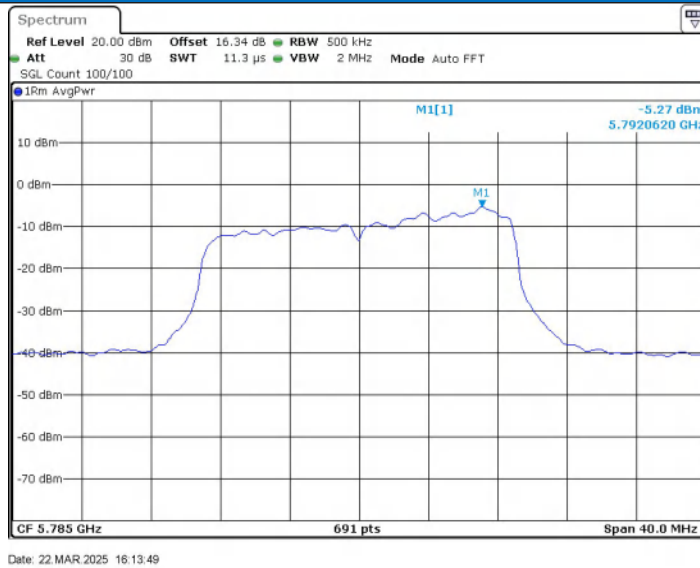
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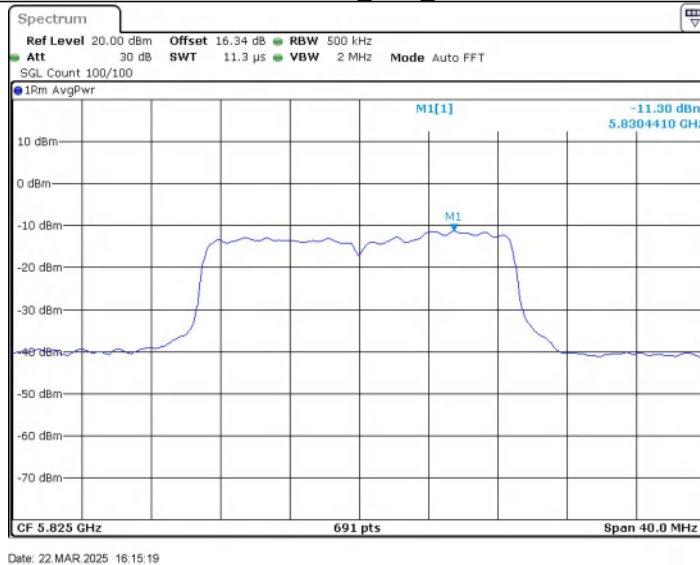


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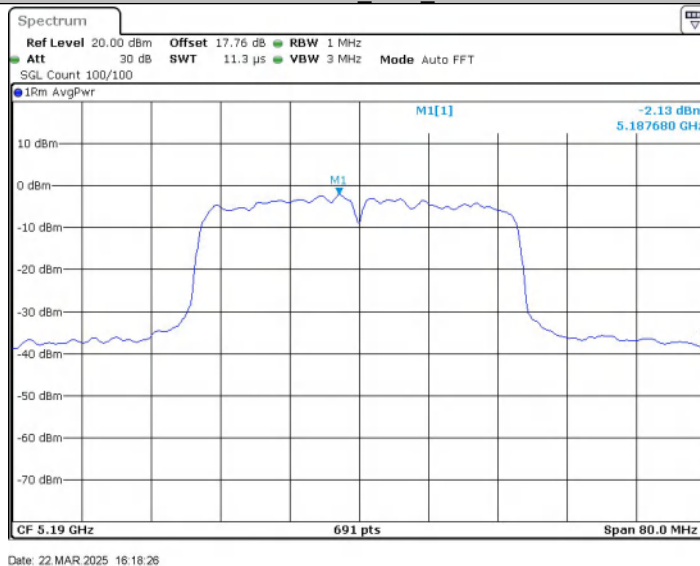
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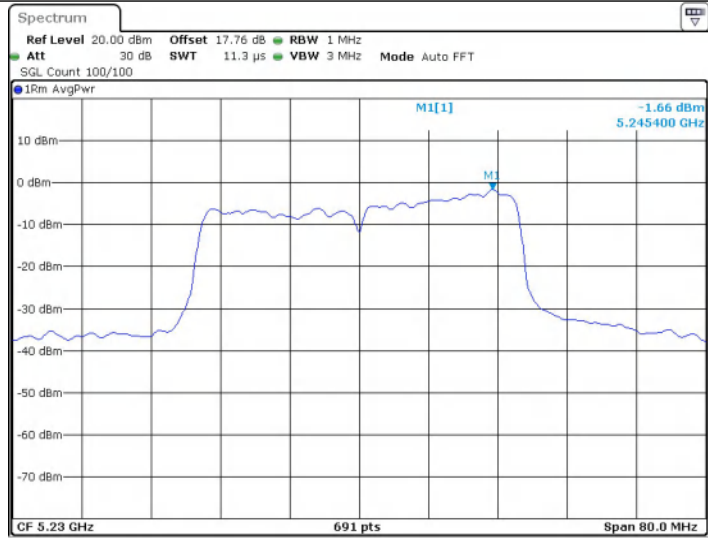
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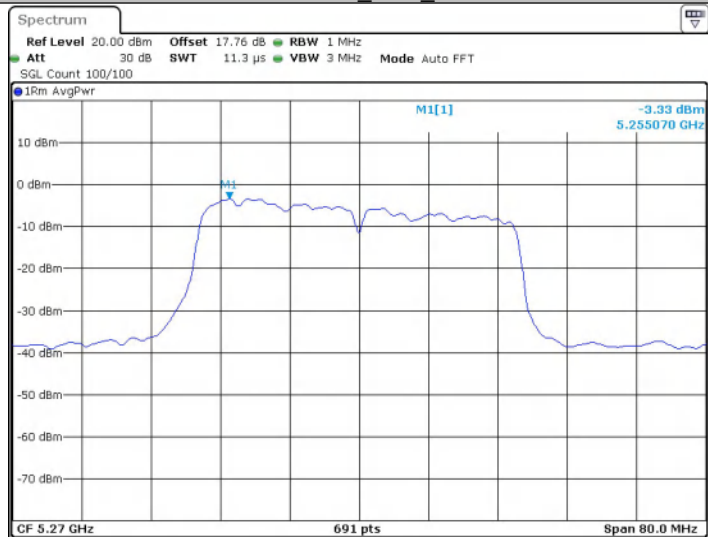


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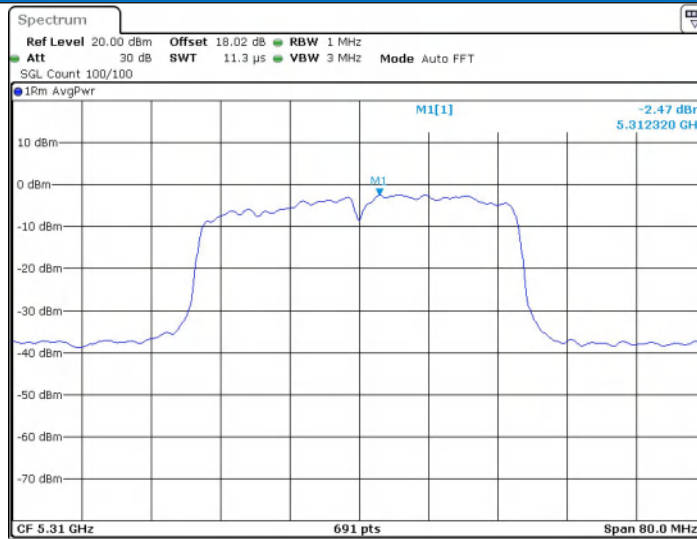
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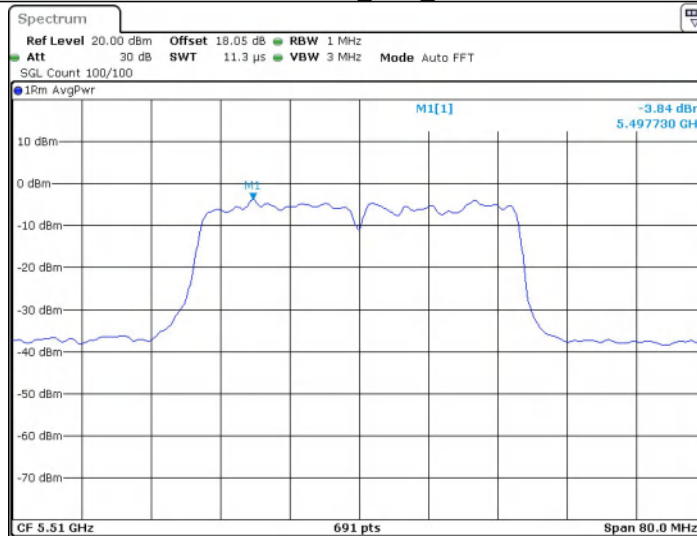
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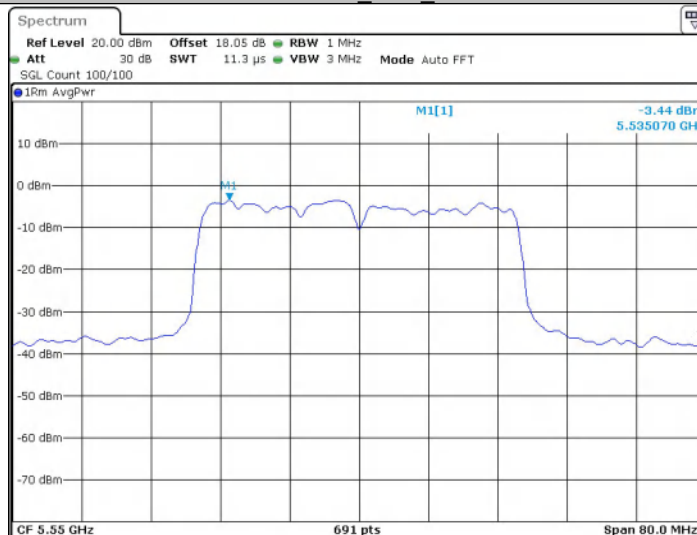
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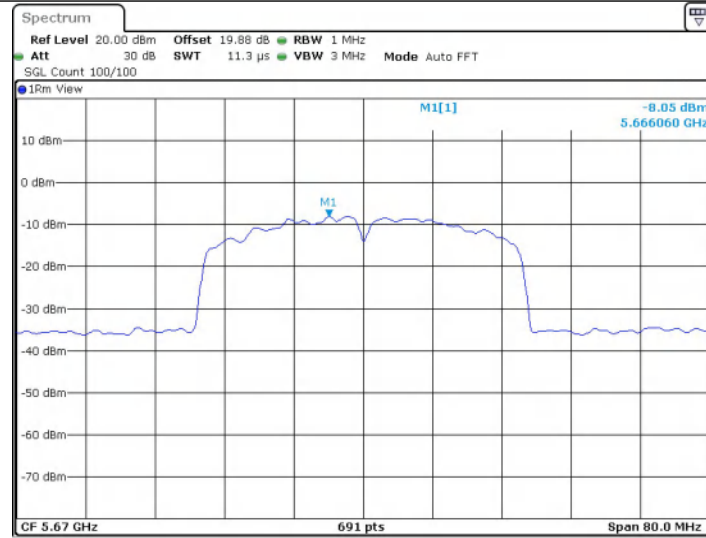
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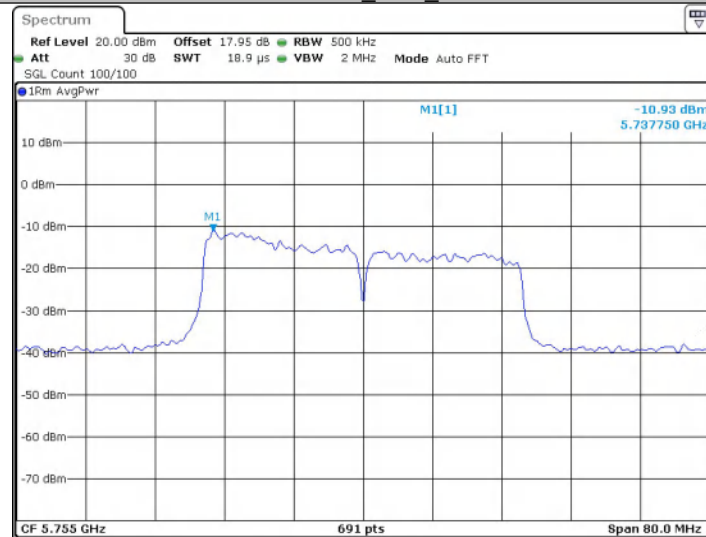
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11N40SISO_Ant1_5755



Date: 22 MAR 2025 16:27:58

11N40SISO_Ant1_5795