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Test Report

Report No.: CQASZ20250501057E-03
Applicant: Shenzhen Kean Digital Co., Ltd.
Address of Applicant: Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129
Equipment Under Test (EUT):
Product: Wireless Home Base
Model No.: N54WHF, N54WHP, N54WHQ, N54WHR, N54WHS, N58WHP, N58WHQ, N58WHR, N58WHS, N94WHF, N94WHP, N94WHQ, N94WHR, N94WHS, N98WHF, N98WHP, N98WHQ, N98WHS
Test Model No.: N54WHF
Brand Name: N/A
FCC ID: 2AKL2N54WHF
Standards: 47 CFR Part 15, Subpart E
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Date of Receipt: 2025-05-15
Date of Test: 2025-05-15 to 2025-09-11
Date of Issue: 2025-09-28
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
CQASZ20250501057E-03	Rev.01	Initial report	2025-09-28

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2020; KDB789033	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.207	ANSI C63.10-2020; KDB789033	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.407 (a)	ANSI C63.10-2020; KDB789033	PASS
Emission Bandwidth	47 CFR Part 15 Subpart C Section 15.407 (a)(e)	ANSI C63.10-2020; KDB789033	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	ANSI C63.10-2020; KDB789033	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.209 & 15.407(b)	ANSI C63.10-2020; KDB789033	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2020; 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 C63.10-2020; 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

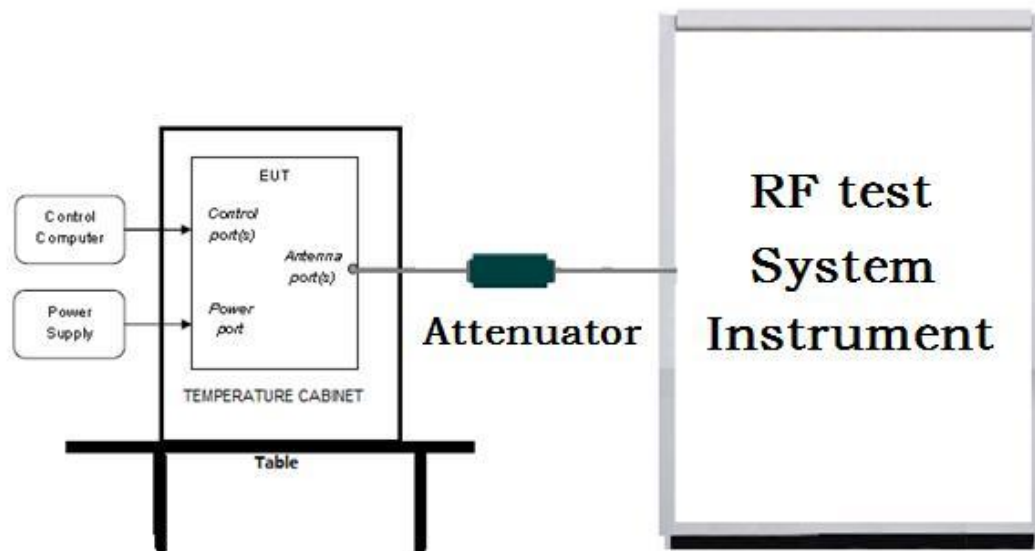
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4 Test Requirement

4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

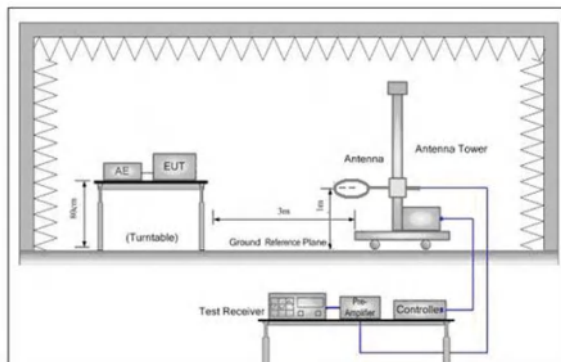


Figure 1. Below 30MHz

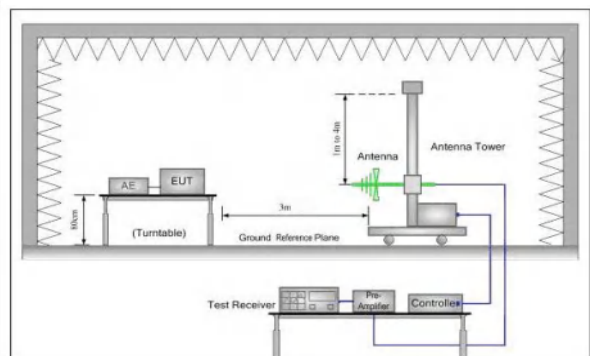


Figure 2. 30MHz to 1GHz

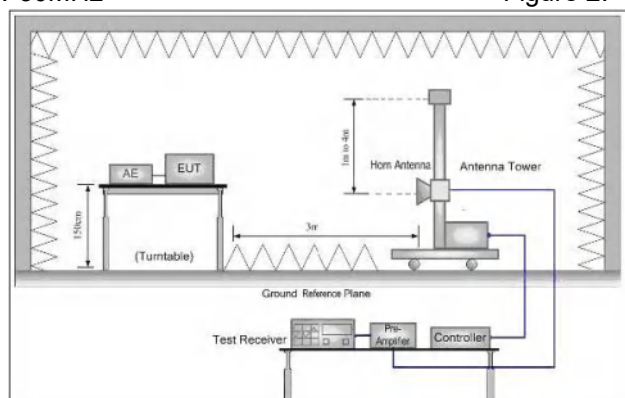
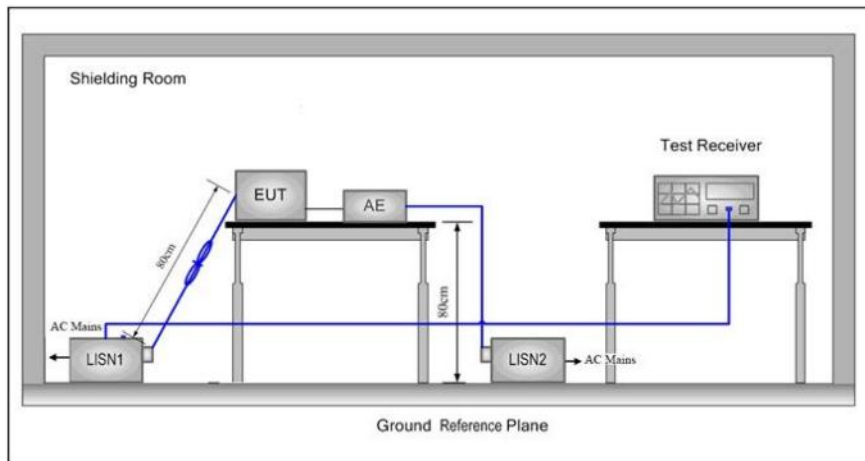


Figure 3. Above 1GHz

4.1.3 For Conducted Emissions test setup

Conducted Emissions setup



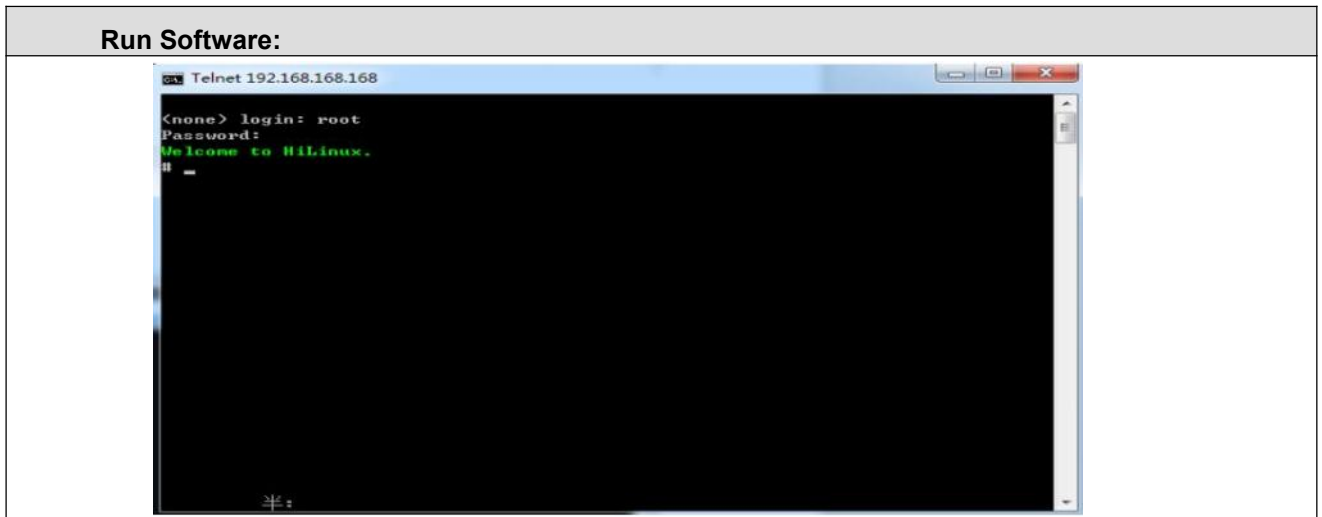
4.2 Test Environment

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	5
TL/VL	-30	5.5
TH/VL	50	5.5
TL/VH	-30	4.5
TH/VH	50	4.5
Remark:		
1)The EUT just work in such extreme temperature of -30 °C to 50 °C and the extreme voltage of 4.18V to 3.42V, so here the EUT is tested in the temperature of -30 °C to 50 °C and the voltage of 4.18V to 3.42V.		
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/ax(20M)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac/ax(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11n/ac/ax(80M)	5150MHz ~5250 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A
802.11a/n/ac/ax(20M)	5725MHz ~5850 MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac/ax(40M)	5725MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz
802.11n/ac/ax(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 802.11n(80M); MCS0 is the worst case of 802.11ac (80M)

5 General Information

5.1 Client Information

Applicant:	Shenzhen Kean Digital Co., Ltd.
Address of Applicant:	Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129
Manufacturer:	Shenzhen Kean Digital Co., Ltd.
Address of Manufacturer:	Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129
Factory:	Shenzhen Kean Digital Co., Ltd.
Address of Factory:	Room 1001, Rujun Building, No. 105, Zhongxing Road, Ma'antang Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129

5.2 General Description of EUT

Product Name:	Wireless Home Base
Model No.:	N54WHF, N54WHP, N54WHQ, N54WHR, N54WHS, N58WHP, N58WHQ, N58WHR, N58WHS, N94WHF, N94WHP, N94WHQ, N94WHR, N94WHS, N98WHF, N98WHP, N98WHQ, N98WHS
Test Model No.:	N54WHF
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	V1.0
RF Model:	SWT6652
EUT Power Supply:	Adapter: Model:CS-0501000 Input:100-240V~0.5A Max.50/60Hz Output:5V= 1.0A
EUT Supports Radios application:	U-NII-1: 5.15-5.25GHz;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/ax(20M): 5150MHz ~5250 MHz IEEE802.11n/ac/ax(40M): 5150MHz ~5250 MHz IEEE802.11ac/ax(80M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850 MHz IEEE802.11n/ac/ax(40M): 5725MHz ~5850 MHz IEEE802.11ac/ax(80M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac/ax(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac/ax(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac/ax(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac/ax(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac/ax(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac/ax(80M): 5725MHz ~5850MHz/ 1 channel
Type of Modulation:	IEEE for 802.11a/n/ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11ax: OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Sample Type:	☒ Mobile ☒ Portable
Test Software of EUT:	CMD
Antenna Type:	PCB antenna
Antenna gain:	Ant1: 2.43dBi@5GHz: Wi-Fi: U-NII-1 3.11dBi@5GHz: Wi-Fi: U-NII-3 Ant2: 2.43dBi@5GHz: Wi-Fi: U-NII-1 3.11dBi@5GHz: Wi-Fi: U-NII-3 Ant1+Ant2: 5.44dBi@5GHz: Wi-Fi: U-NII-1 6.12dBi@5GHz: Wi-Fi: U-NII-3
Cable loss:	1.0 dB

Operation Frequency each of channel

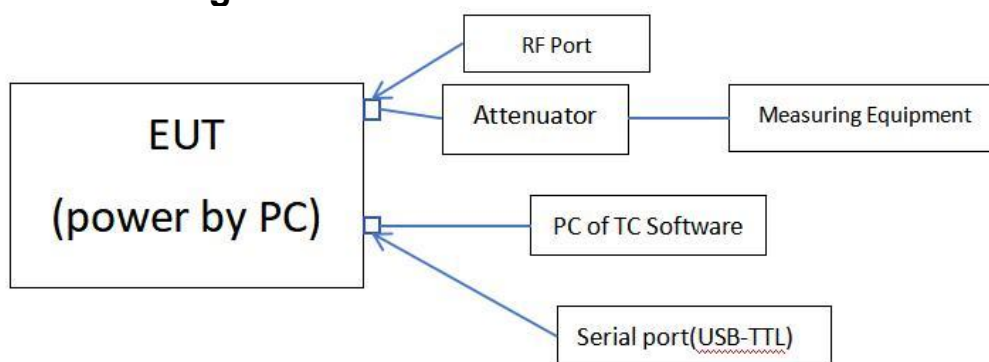
(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	36	5180	40	5200
	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210	/	/
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	149	5745	153	5765
	157	5785	161	5805
	165	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 2025/8/31	2025/9/1 2026/8/30
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2 2025/8/31	2025/9/1 2026/8/30
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 2025/8/31	2025/9/1 2026/8/30
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2 2025/8/31	2025/9/1 2026/8/30
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2024/9/2 2025/8/31	2025/9/1 2026/8/30
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Power meter	R&S	NRVD	CQA-029	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2024/9/2 2025/8/31	2025/9/1 2026/8/30
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2 2025/8/31	2025/9/1 2026/8/30
LISN	R&S	ENV216	CQA-003	2024/9/2 2025/8/31	2025/9/1 2026/8/30
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2 2025/8/31	2025/9/1 2026/8/30
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2 2025/8/31	2025/9/1 2026/8/30

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 C63.10-2020	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)

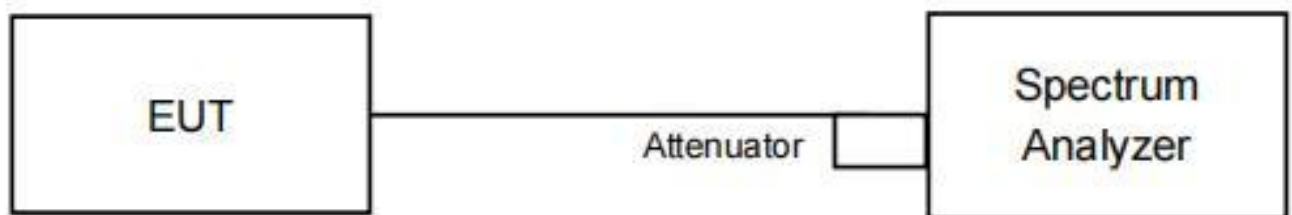
Test Method: KDB 789033 D02 II C 2

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

Ant 1:

TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	5180	19.76	5170.12	5189.88	---	---
	5200	19.84	5190.00	5209.84	---	---
	5240	19.20	5230.76	5249.96	---	---
	5745	21.56	5732.68	5754.24	---	---
	5785	19.28	5775.60	5794.88	---	---
	5825	20.16	5814.92	5835.08	---	---
11N20MIMO	5180	20.36	5169.84	5190.20	---	---
	5200	20.12	5189.84	5209.96	---	---
	5240	19.84	5230.28	5250.12	---	---
	5745	22.48	5732.40	5754.88	---	---
	5785	21.88	5775.40	5797.28	---	---
	5825	19.96	5814.92	5834.88	---	---
11N40MIMO	5190	39.04	5170.16	5209.20	---	---
	5230	40.72	5209.84	5250.56	---	---
	5755	40.40	5734.36	5774.76	---	---
	5795	38.72	5775.56	5814.28	---	---
11AC20MIMO	5180	20.32	5169.96	5190.28	---	---
	5200	19.80	5189.96	5209.76	---	---
	5240	19.64	5230.40	5250.04	---	---
	5745	20.08	5734.60	5754.68	---	---
	5785	19.92	5775.08	5795.00	---	---
	5825	20.16	5814.92	5835.08	---	---
11AC40MIMO	5190	39.92	5170.08	5210.00	---	---
	5230	41.28	5209.68	5250.96	---	---
	5755	40.16	5734.20	5774.36	---	---
	5795	39.20	5775.00	5814.20	---	---
11AC80MIMO	5210	80.00	5170.16	5250.16	---	---
	5775	83.36	5731.00	5814.36	---	---
11AX20MIMO	5180	20.08	5170.12	5190.20	---	---
	5200	19.88	5189.96	5209.84	---	---
	5240	20.04	5230.16	5250.20	---	---
	5745	20.08	5734.56	5754.64	---	---
	5785	19.84	5775.32	5795.16	---	---
	5825	20.04	5814.92	5834.96	---	---

11AX40MIMO	5190	39.52	5170.08	5209.60	---	---
	5230	40.72	5210.16	5250.88	---	---
	5755	40.48	5733.96	5774.44	---	---
	5795	38.72	5775.64	5814.36	---	---
11AX80MIMO	5210	87.04	5170.00	5257.04	---	---
	5775	83.36	5730.84	5814.20	---	---

Ant 2:

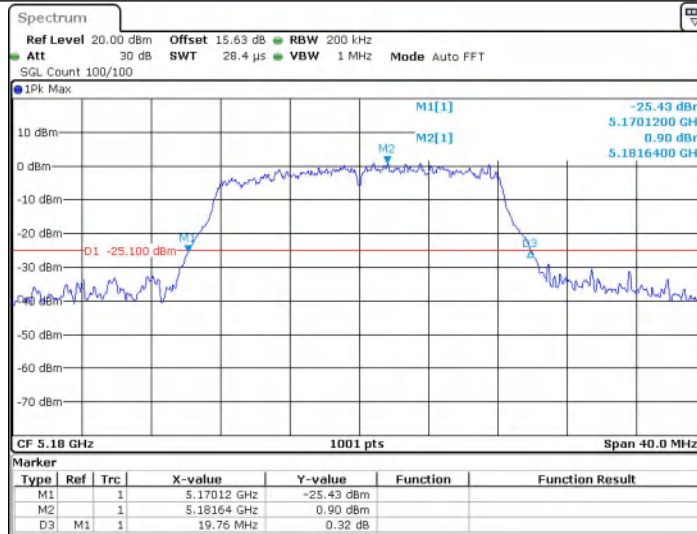
TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	5180	19.96	5170.00	5189.96	---	---
	5200	20.28	5189.64	5209.92	---	---
	5240	19.52	5230.48	5250.00	---	---
	5745	20.12	5734.64	5754.76	---	---
	5785	19.60	5775.36	5794.96	---	---
	5825	20.20	5814.92	5835.12	---	---
11N20MIMO	5180	20.08	5170.00	5190.08	---	---
	5200	19.76	5189.96	5209.72	---	---
	5240	19.68	5230.36	5250.04	---	---
	5745	20.16	5734.52	5754.68	---	---
	5785	19.60	5775.36	5794.96	---	---
	5825	20.00	5814.92	5834.92	---	---
11N40MIMO	5190	39.20	5170.16	5209.36	---	---
	5230	40.48	5210.00	5250.48	---	---
	5755	41.84	5732.20	5774.04	---	---
	5795	38.32	5775.80	5814.12	---	---
11AC20MIMO	5180	20.12	5170.08	5190.20	---	---
	5200	20.24	5189.76	5210.00	---	---
	5240	19.64	5230.44	5250.08	---	---
	5745	22.52	5732.08	5754.60	---	---
	5785	19.60	5775.32	5794.92	---	---
	5825	20.04	5815.04	5835.08	---	---
11AC40MIMO	5190	39.52	5170.16	5209.68	---	---
	5230	40.88	5210.00	5250.88	---	---
	5755	41.20	5733.48	5774.68	---	---
	5795	38.32	5775.64	5813.96	---	---
11AC80MIMO	5210	79.84	5170.16	5250.00	---	---
	5775	83.20	5731.00	5814.20	---	---
11AX20MIMO	5180	20.36	5169.76	5190.12	---	---
	5200	20.00	5190.00	5210.00	---	---
	5240	19.80	5230.20	5250.00	---	---
	5745	21.44	5733.04	5754.48	---	---
	5785	19.96	5775.24	5795.20	---	---
	5825	19.80	5815.04	5834.84	---	---
11AX40MIMO	5190	39.20	5170.16	5209.36	---	---

	5230	41.44	5209.36	5250.80	---	---
	5755	42.72	5731.88	5774.60	---	---
	5795	38.88	5775.64	5814.52	---	---
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	5775	84.00	5730.36	5814.36	---	---

Test Graph

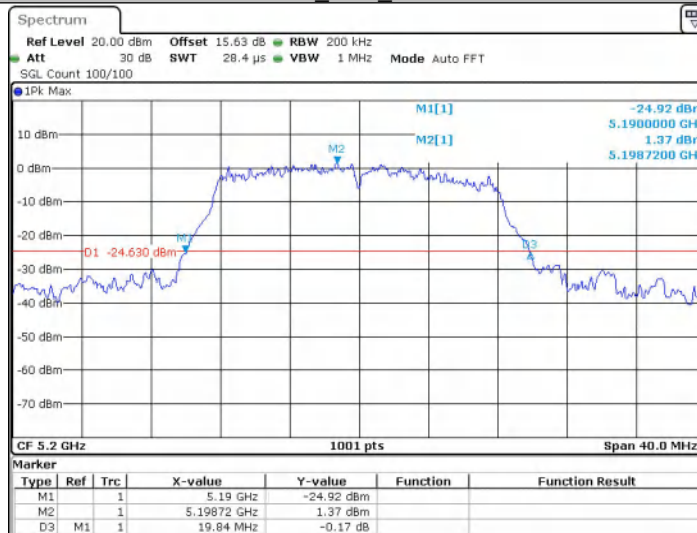
Ant 1:

11A_Ant1_5180



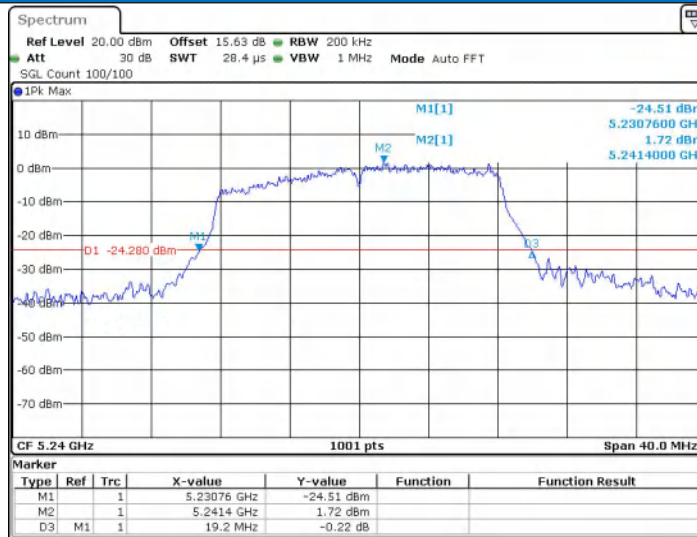
Date: 9 SEP 2025 10:24:04

11A_Ant1_5200



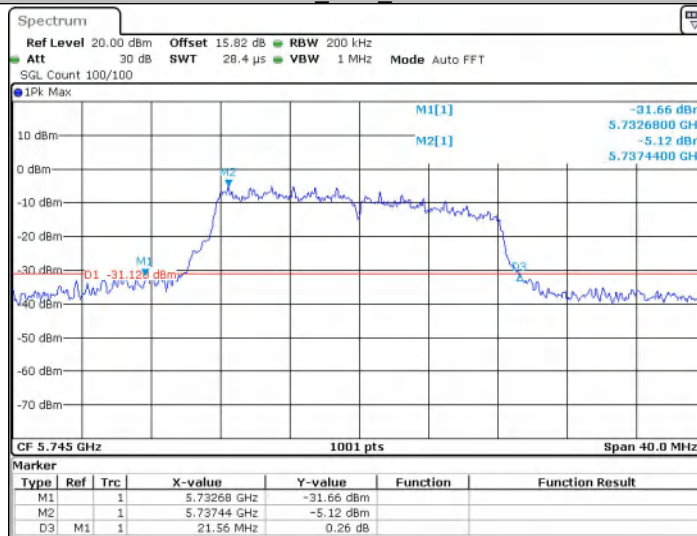
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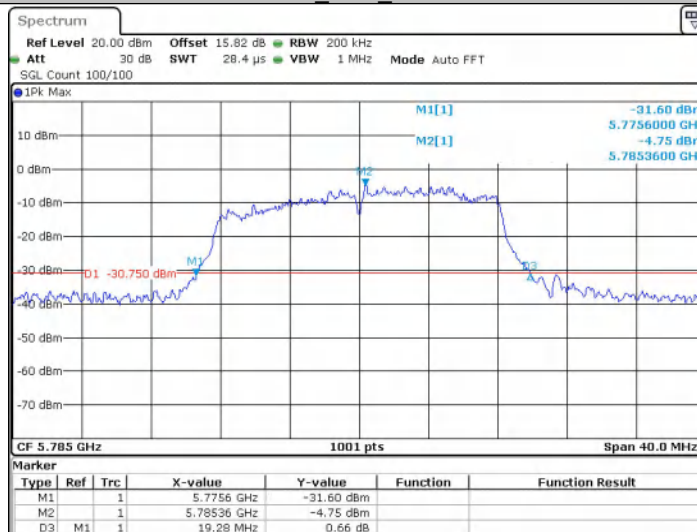
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11A_Ant1_5745



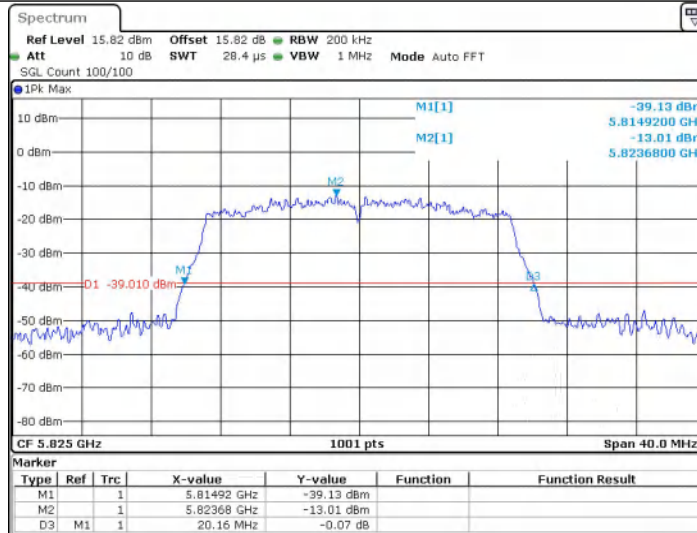
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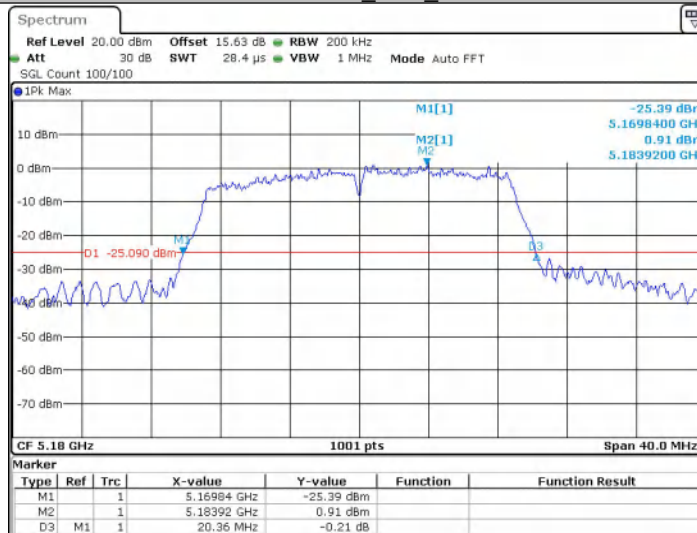
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11A_Ant1_5825



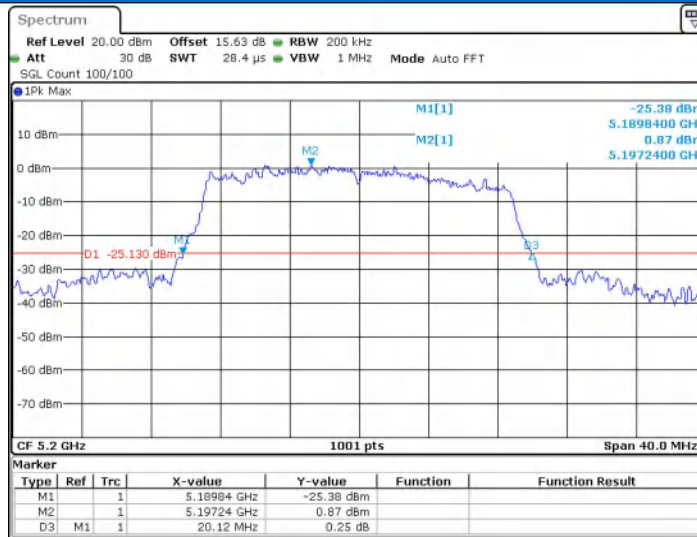
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11N20MIMO_Ant1_5180



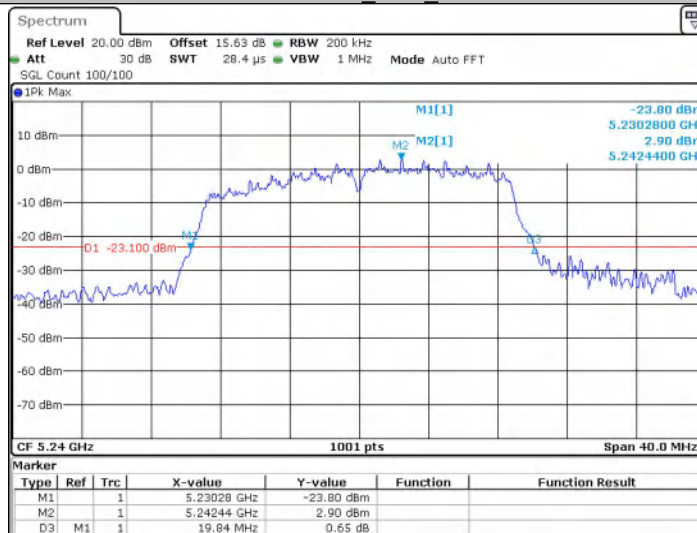
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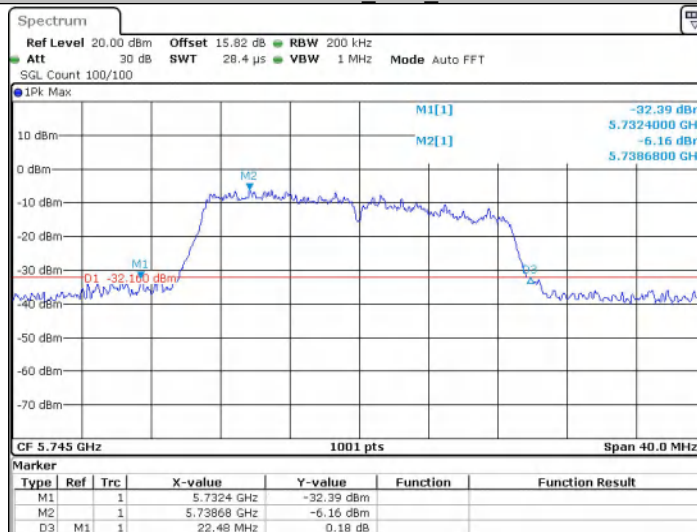
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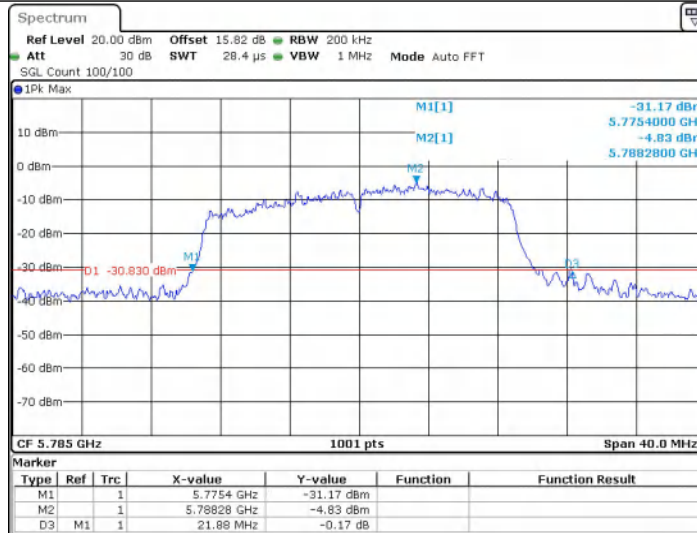
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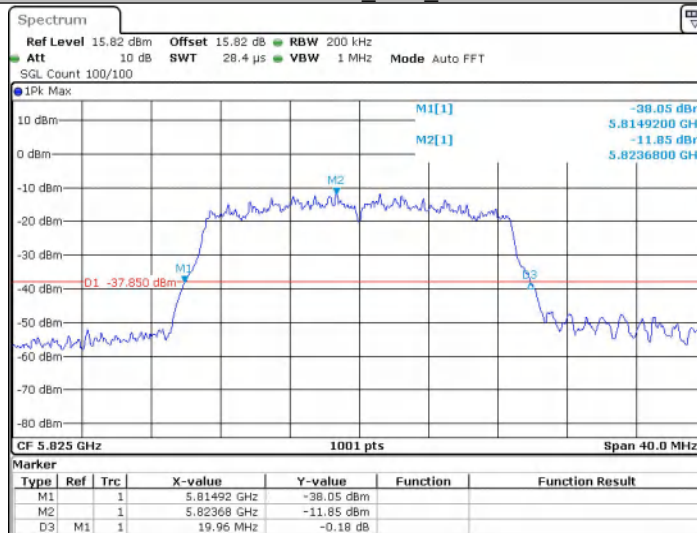
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11N20MIMO_Ant1_5785



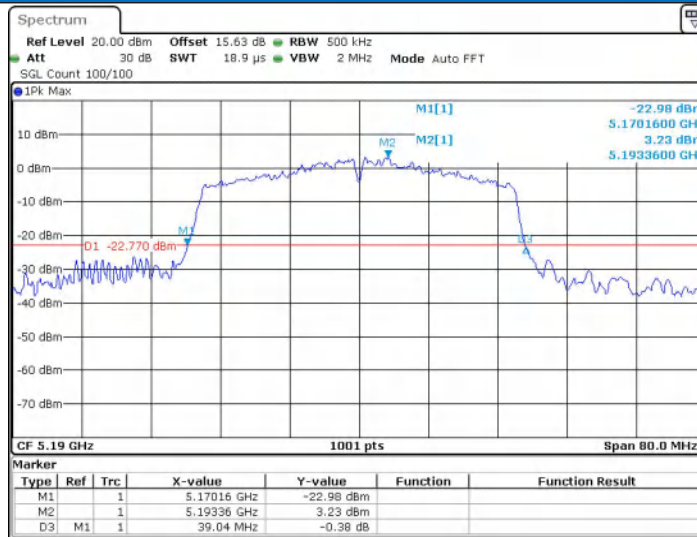
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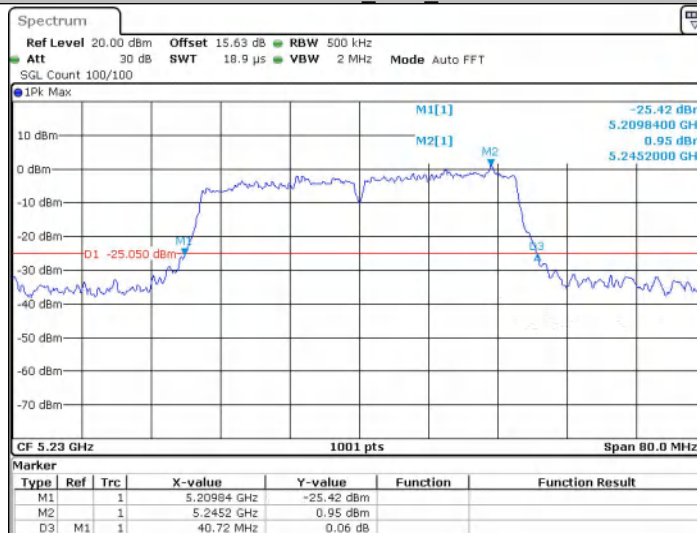
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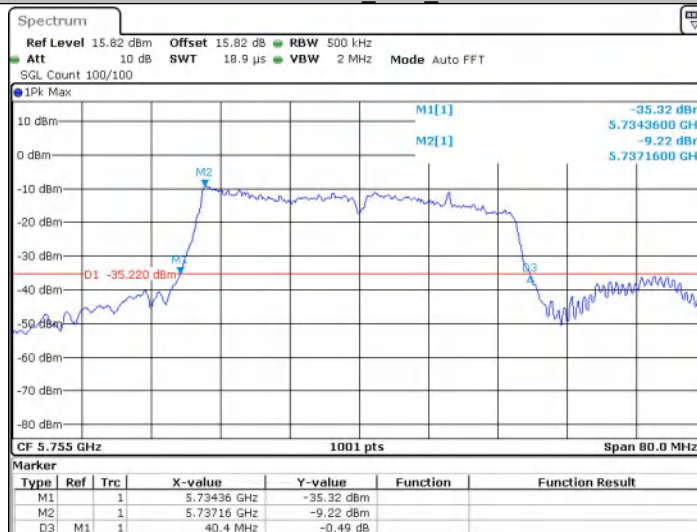
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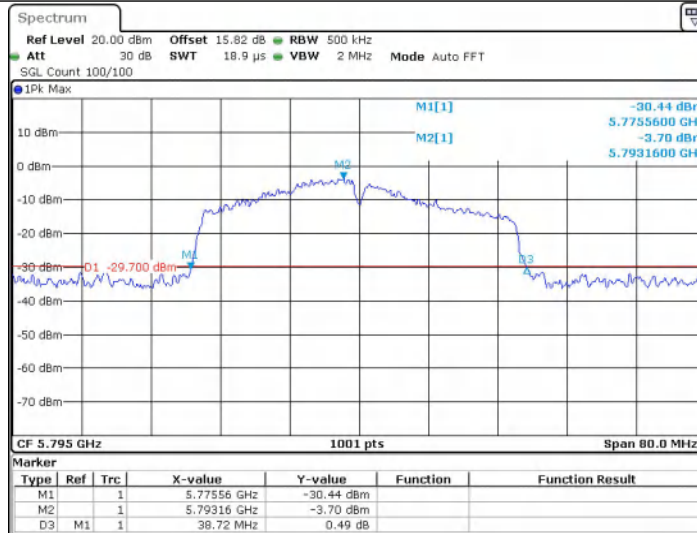
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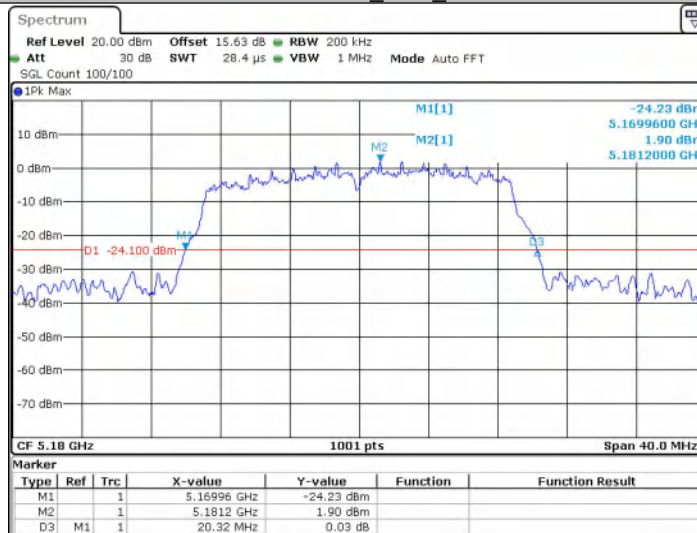
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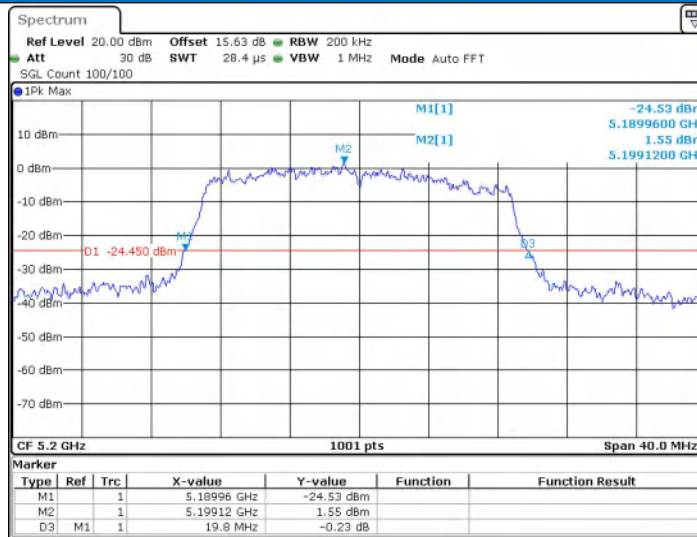
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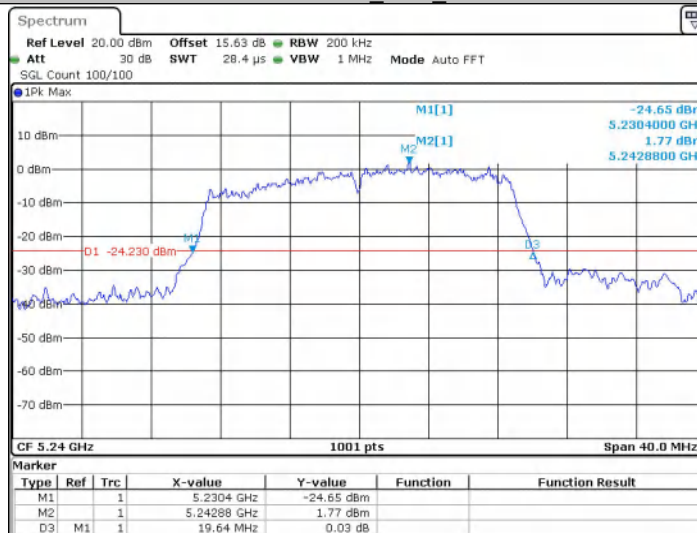
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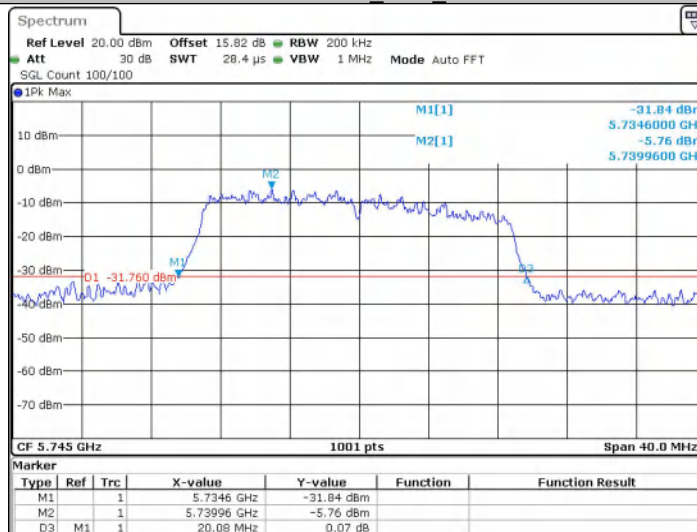
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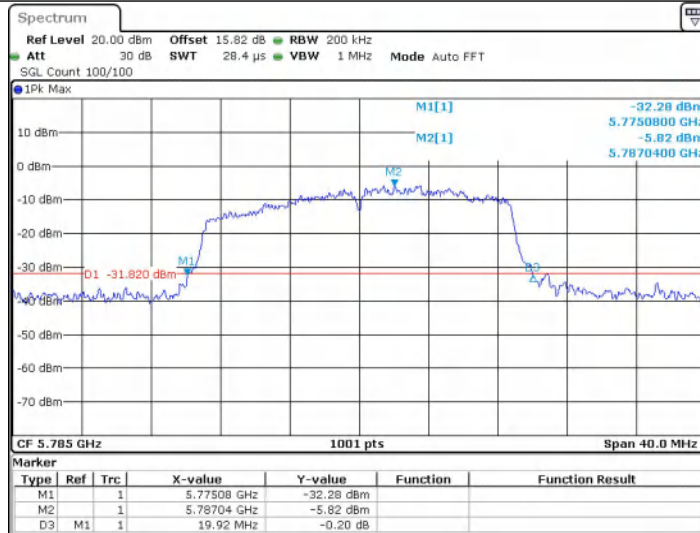
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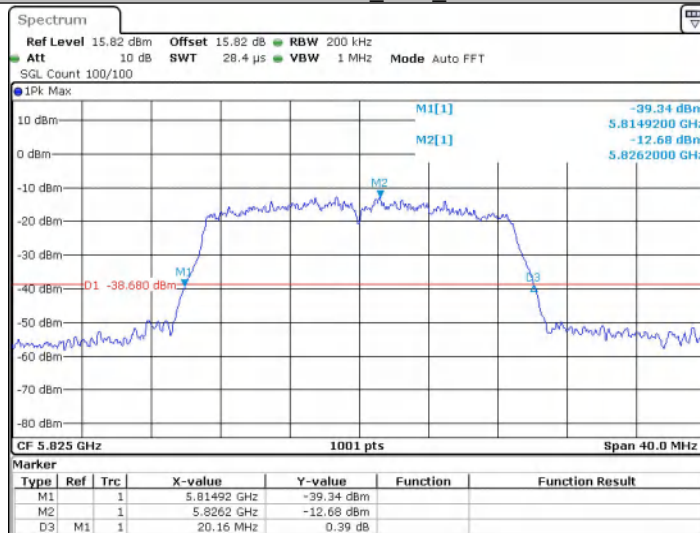
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11AC20MIMO_Ant1_5785



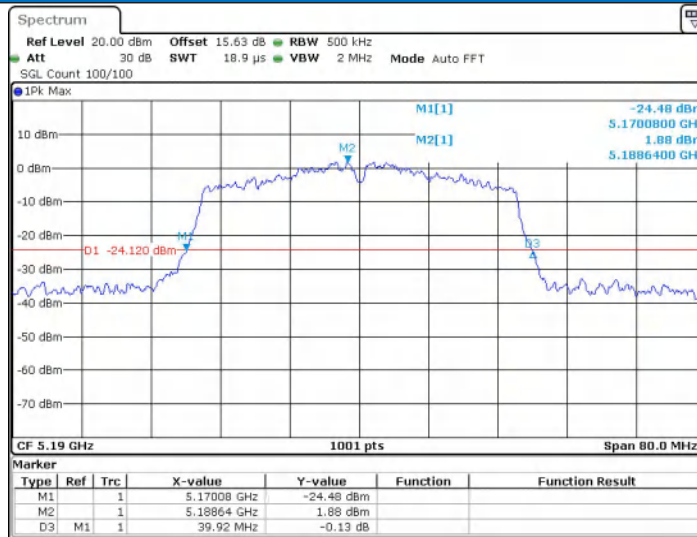
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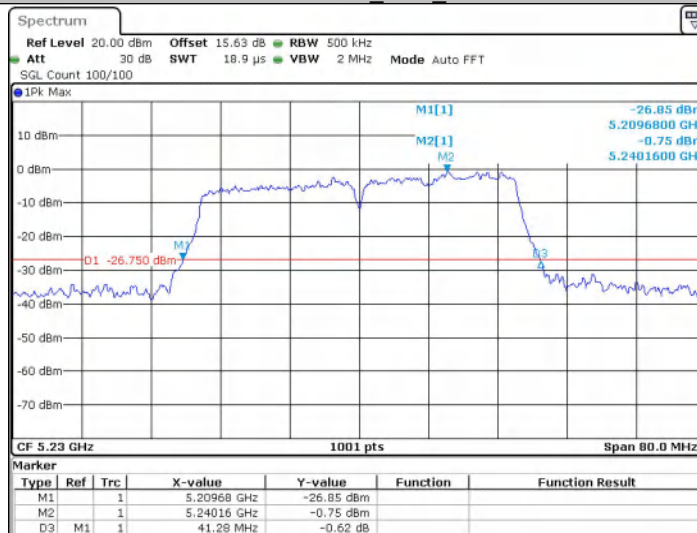
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11AC40MIMO_Ant1_5190



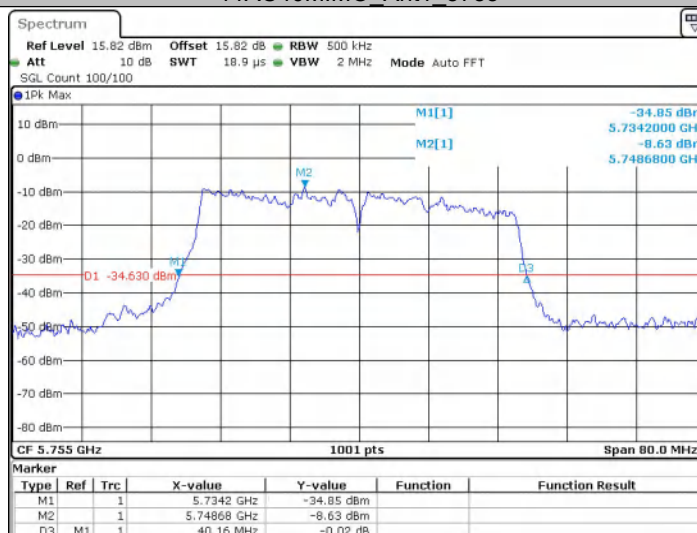
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11AC40MIMO_Ant1_5230



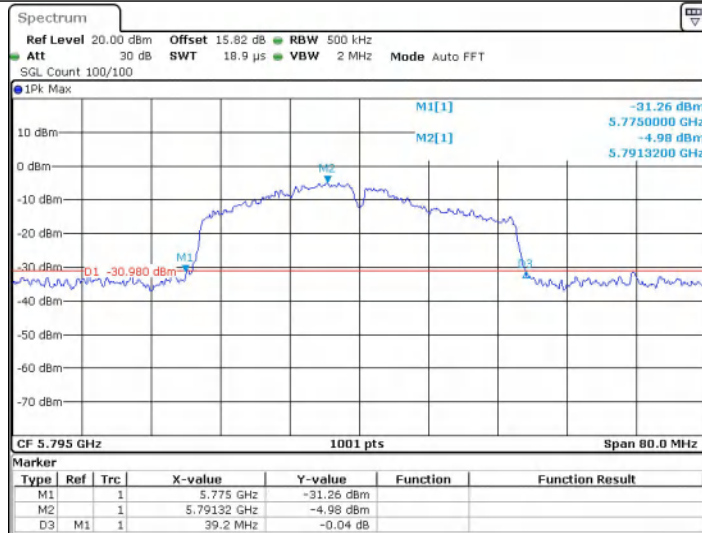
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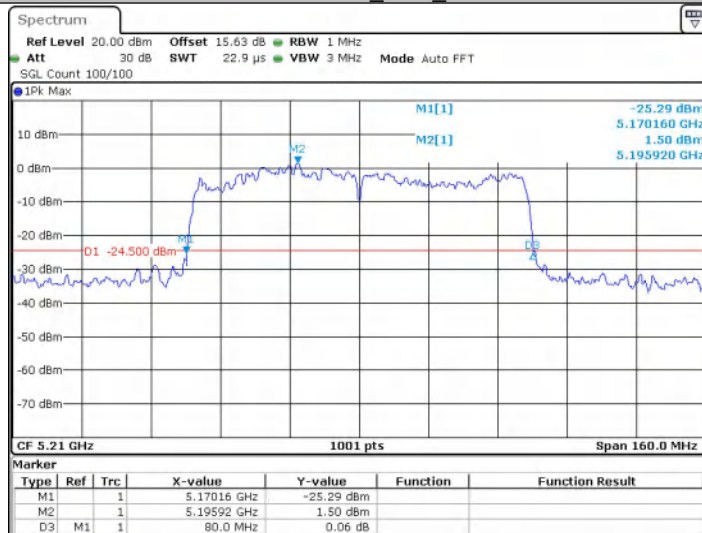
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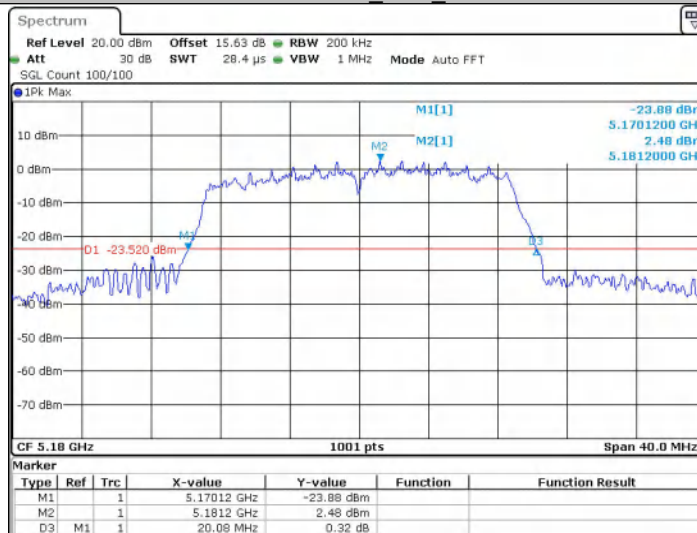
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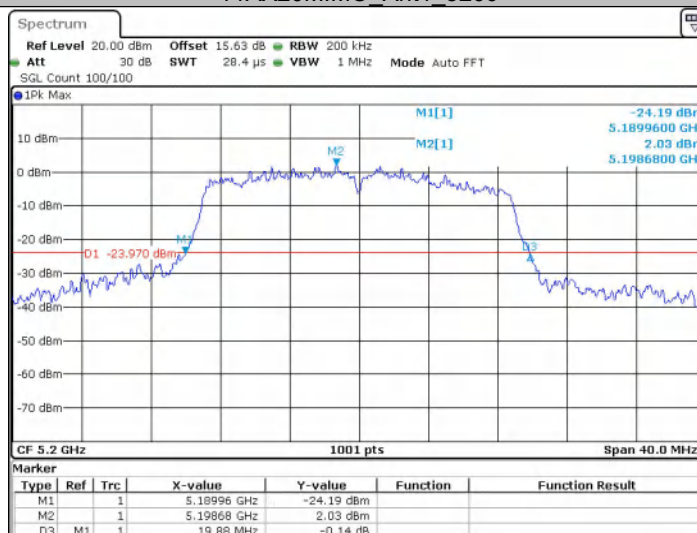
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11AX20MIMO_Ant1_5180



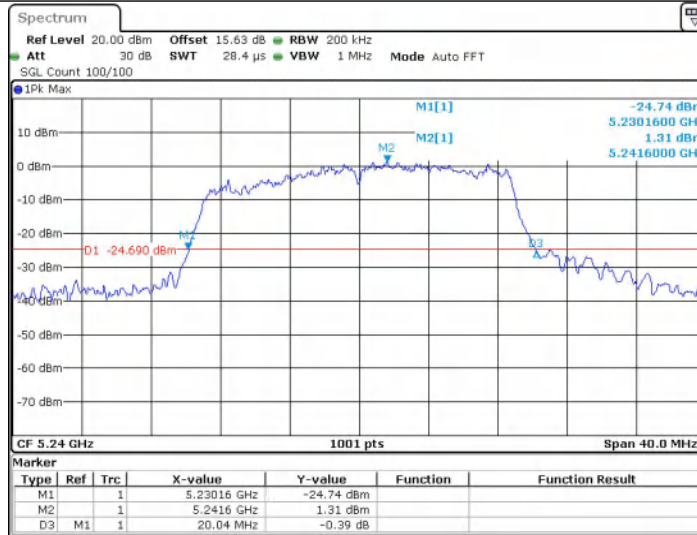
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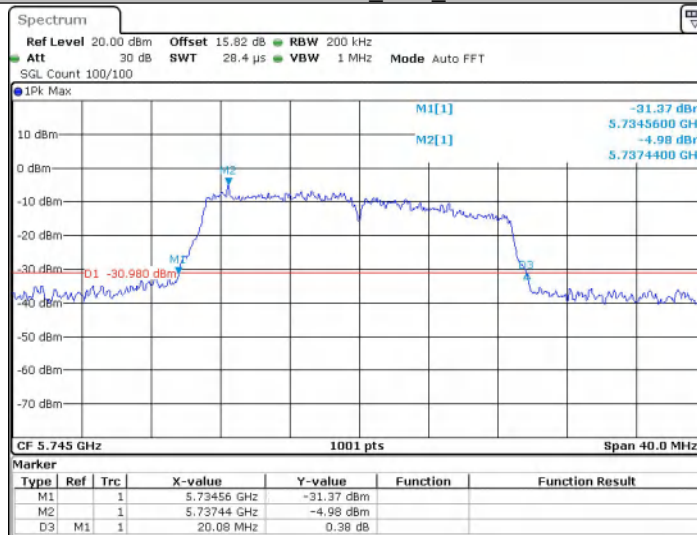
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11AX20MIMO_Ant1_5240



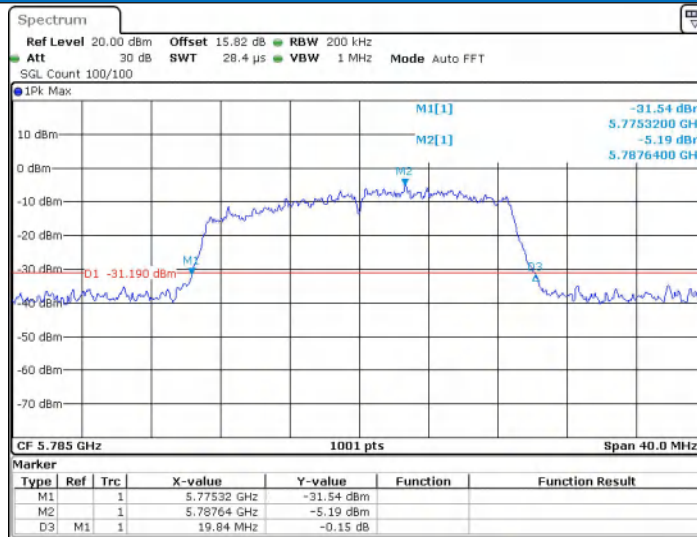
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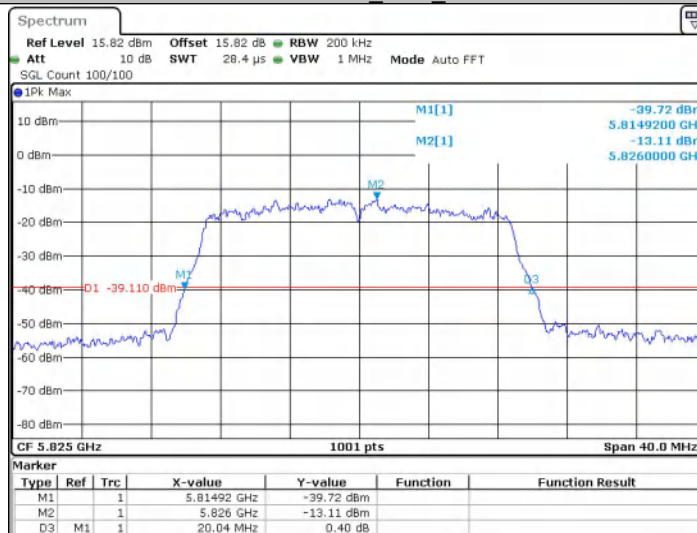
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11AX20MIMO_Ant1_5785



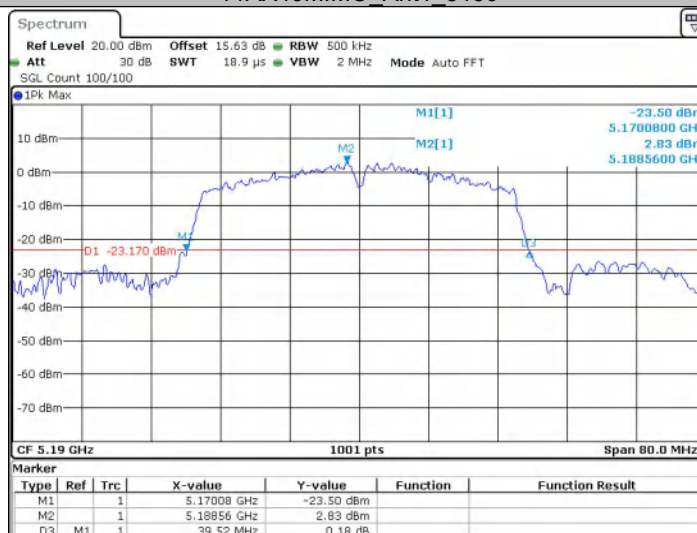
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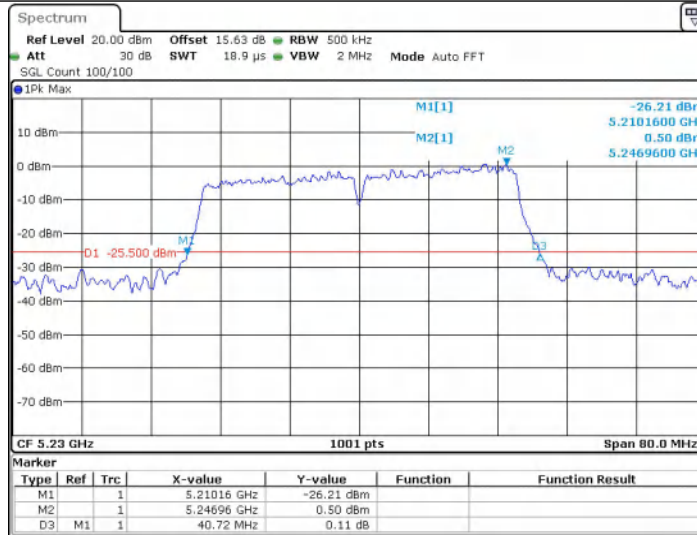
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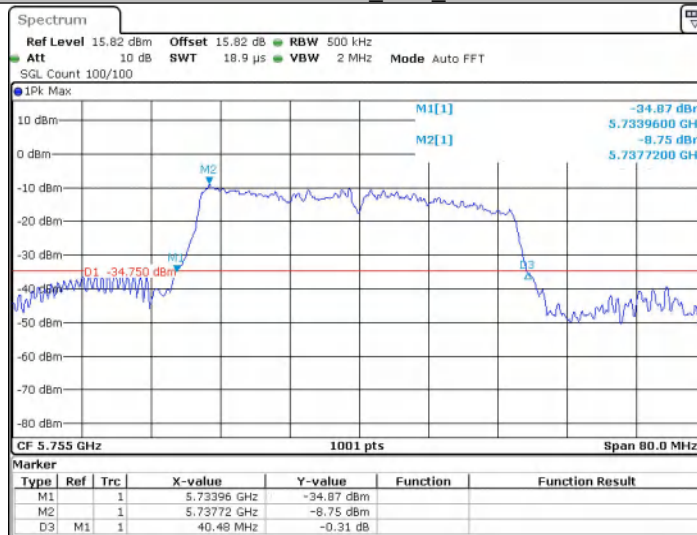
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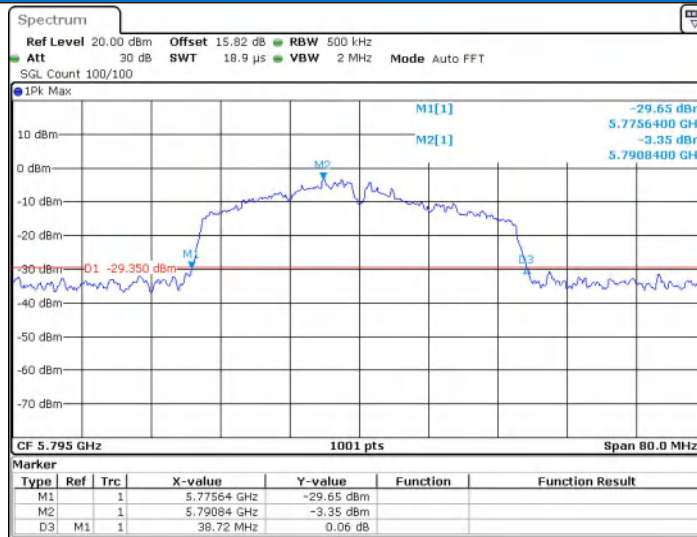
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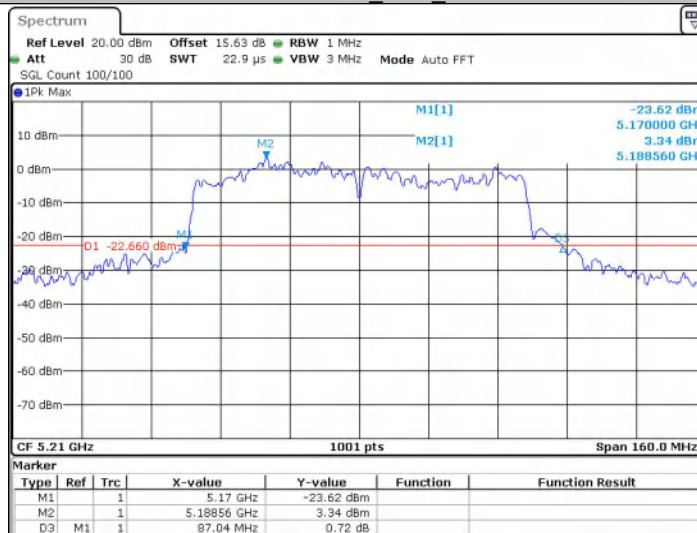
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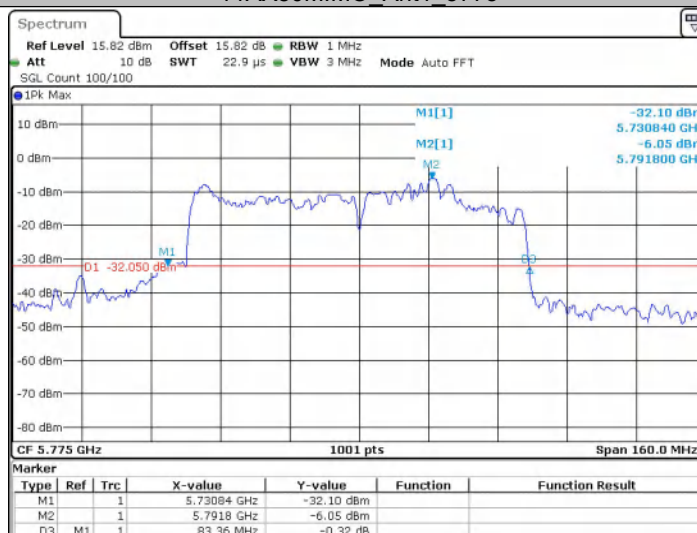
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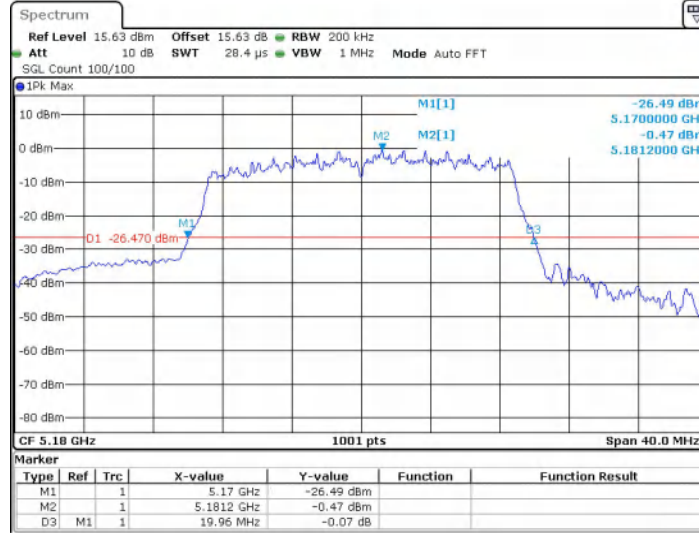
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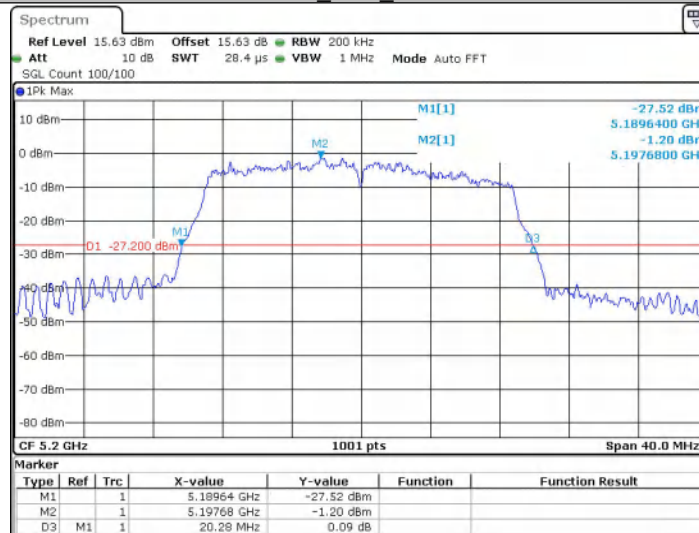
Ant 2:

11A_Ant2_5180



Date: 12 SEP. 2025 11:00:26

11A_Ant2_5200



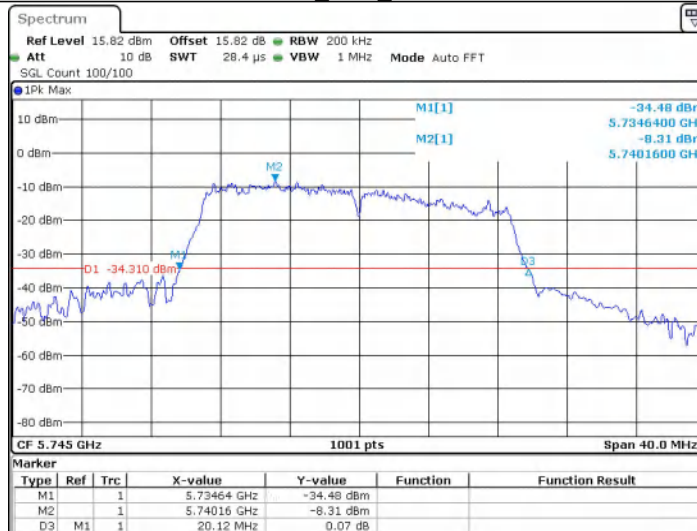
Date: 12 SEP. 2025 11:00:43

11A_Ant2_5240



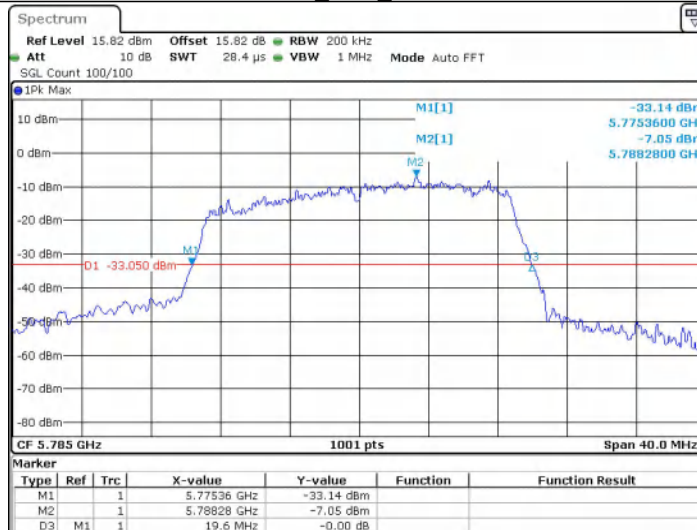
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11A_Ant2_5745



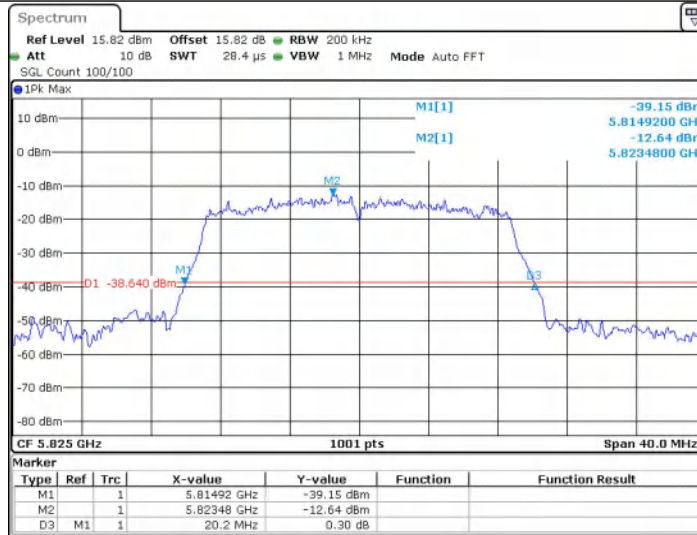
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11A_Ant2_5785



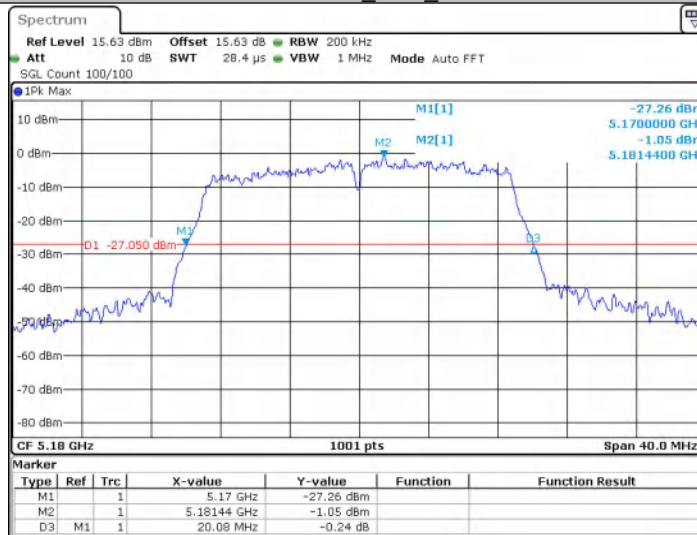
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11A_Ant2_5825



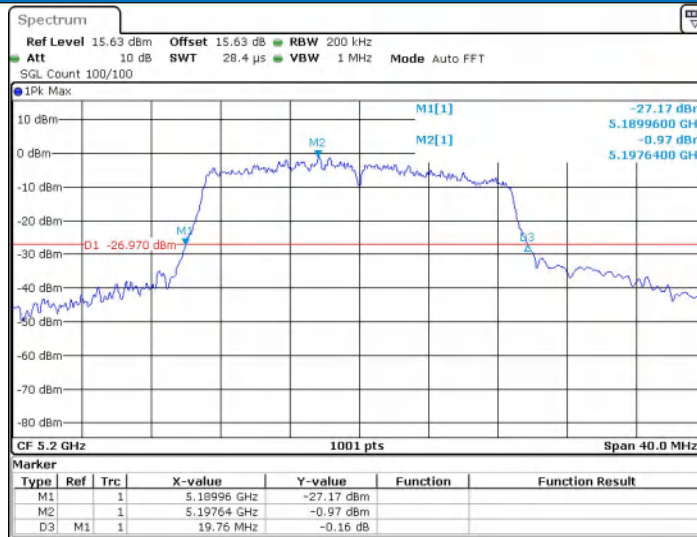
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11N20MIMO_Ant2_5180



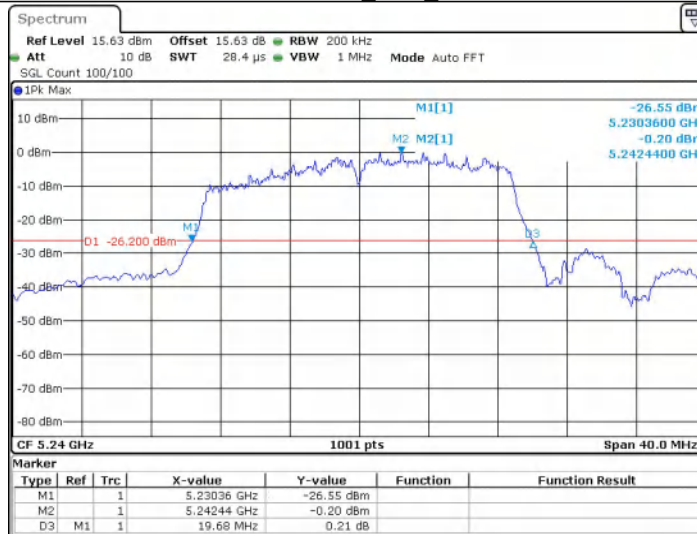
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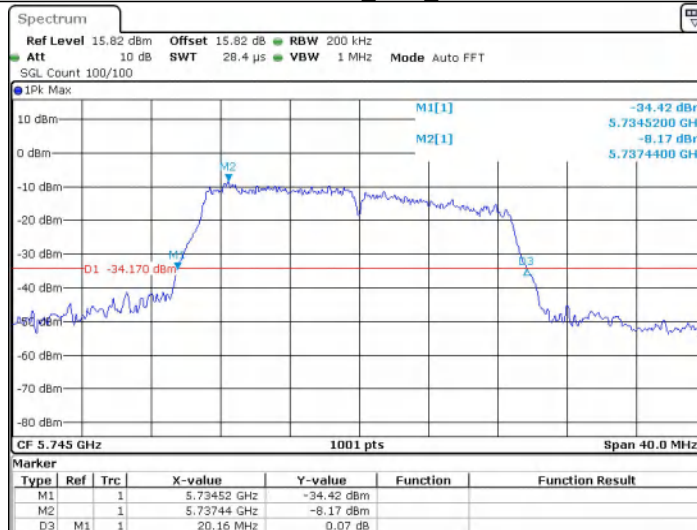
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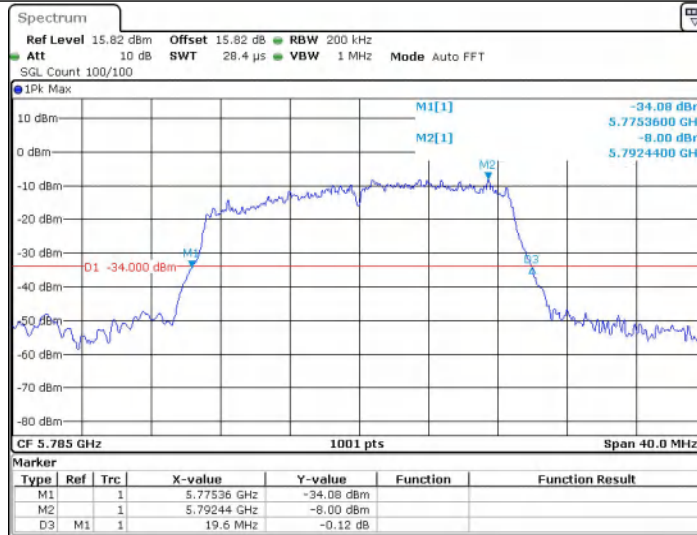
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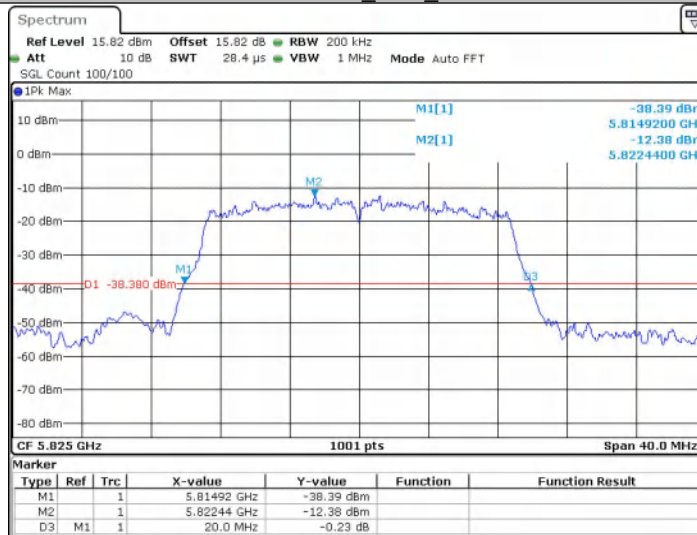
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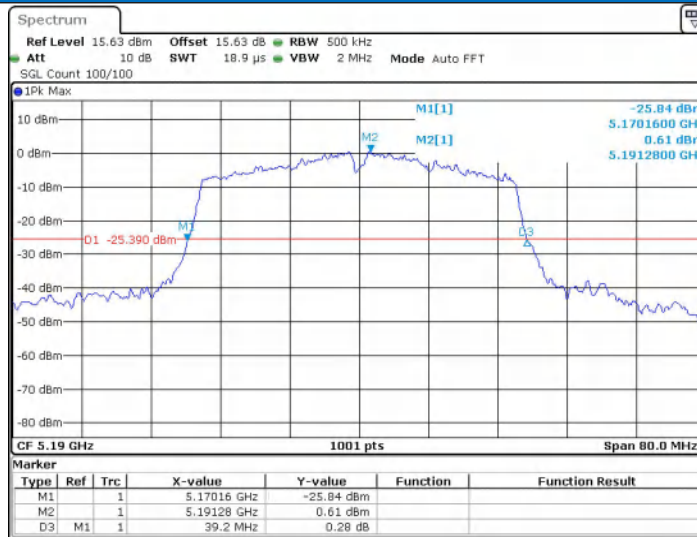
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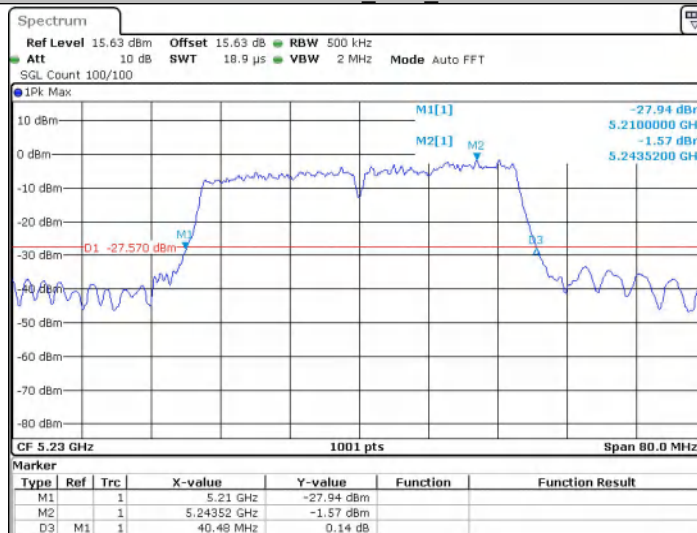
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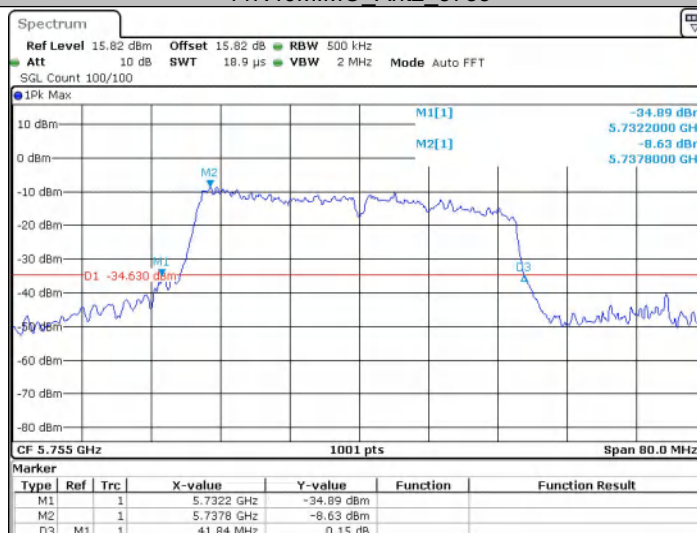
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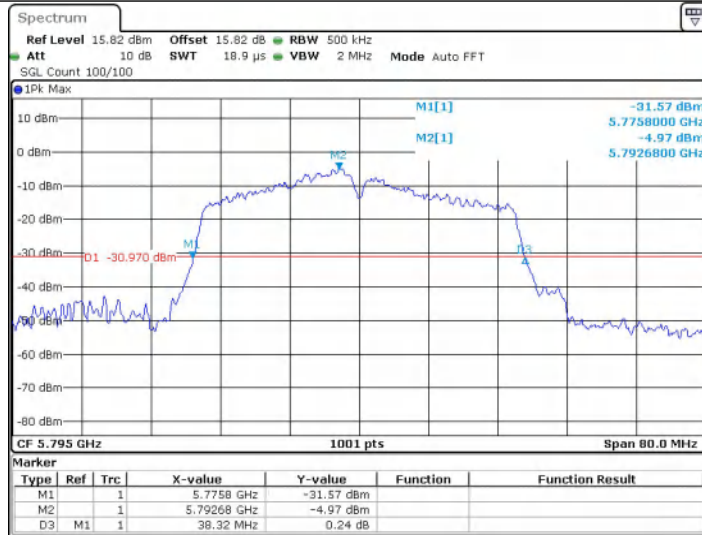
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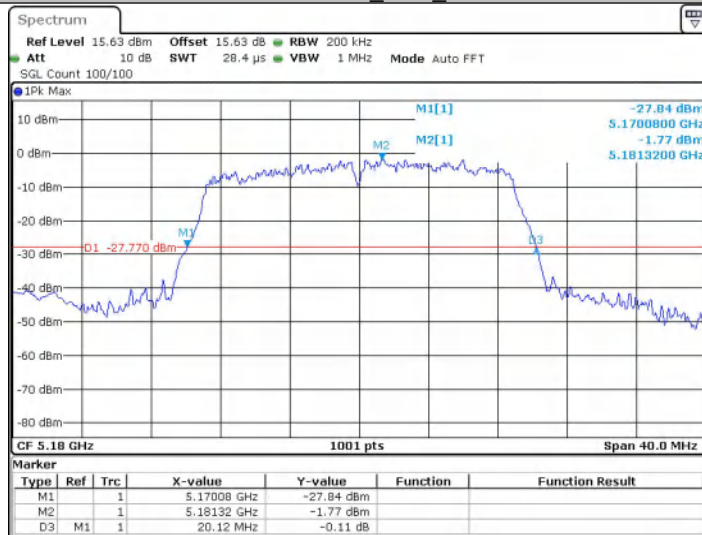
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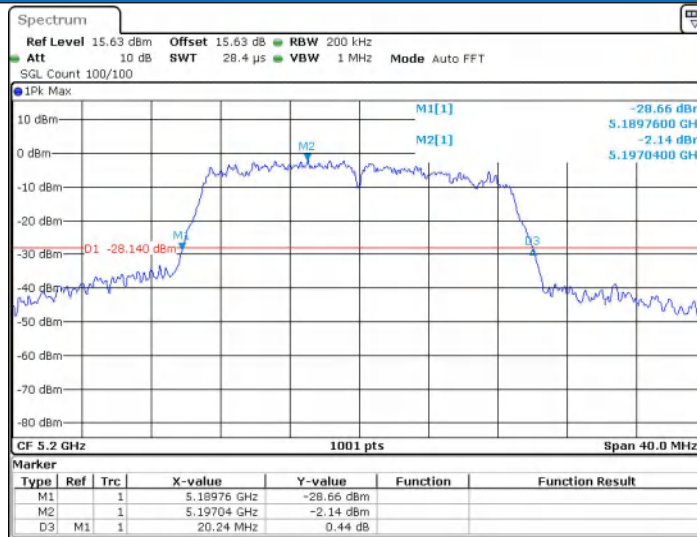
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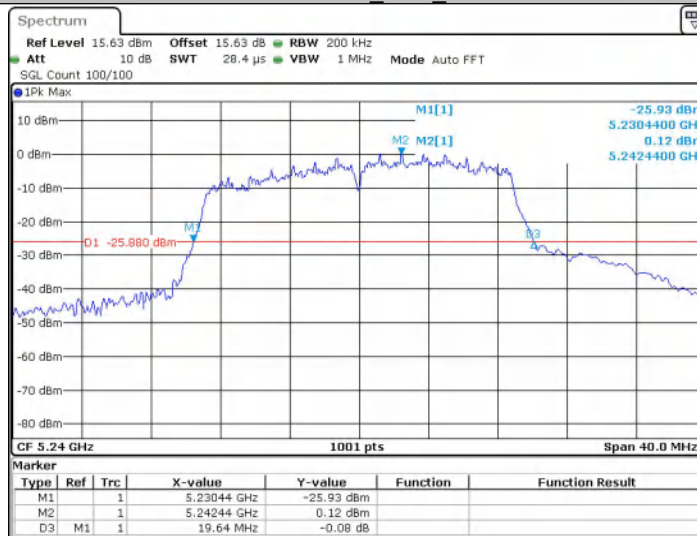
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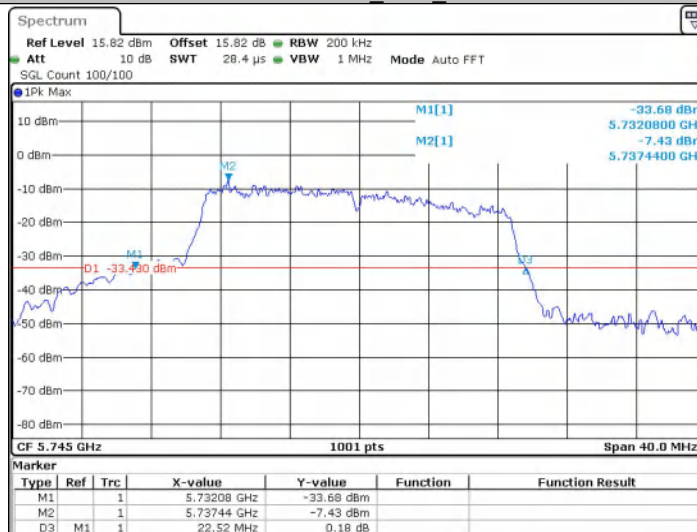
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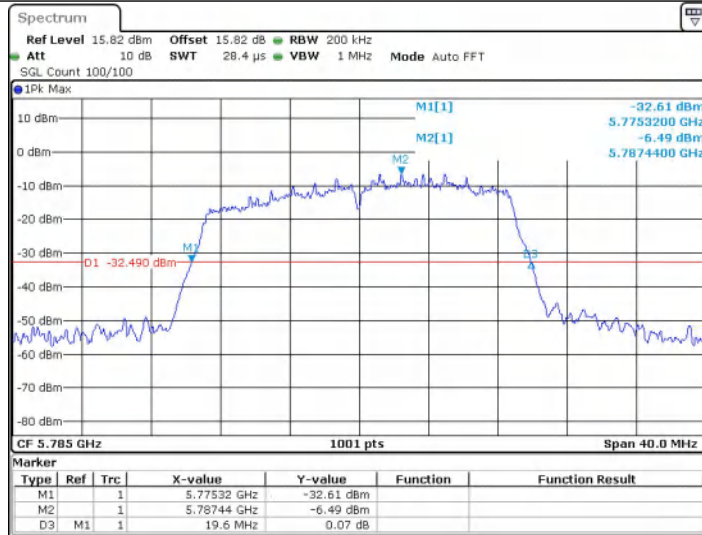
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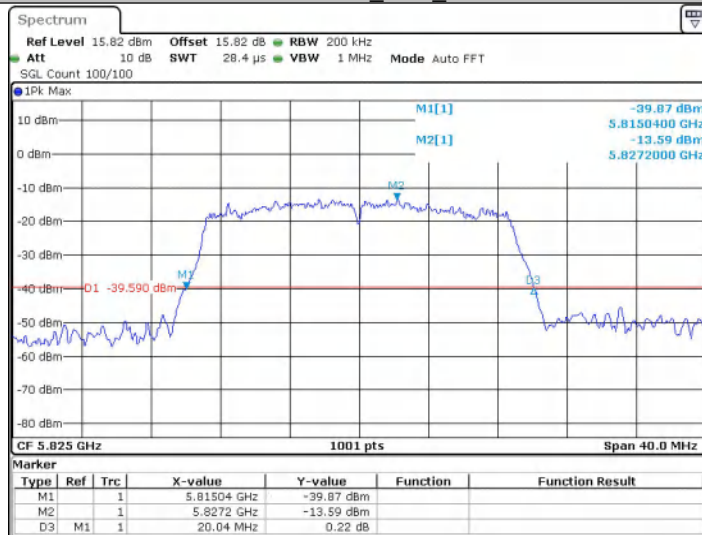
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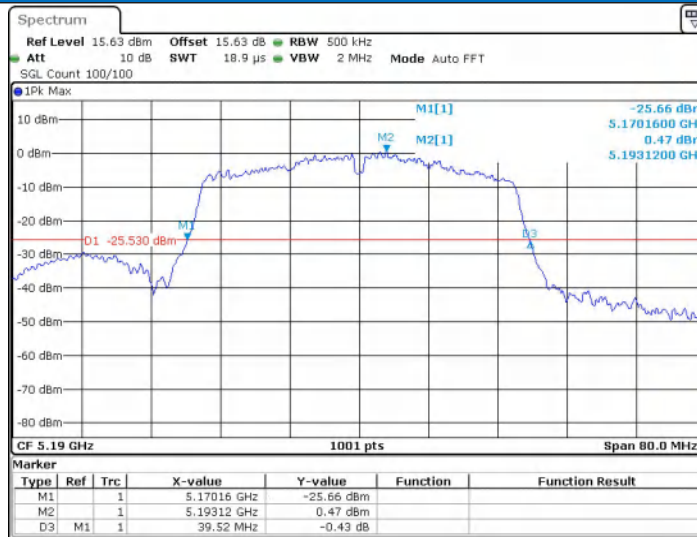
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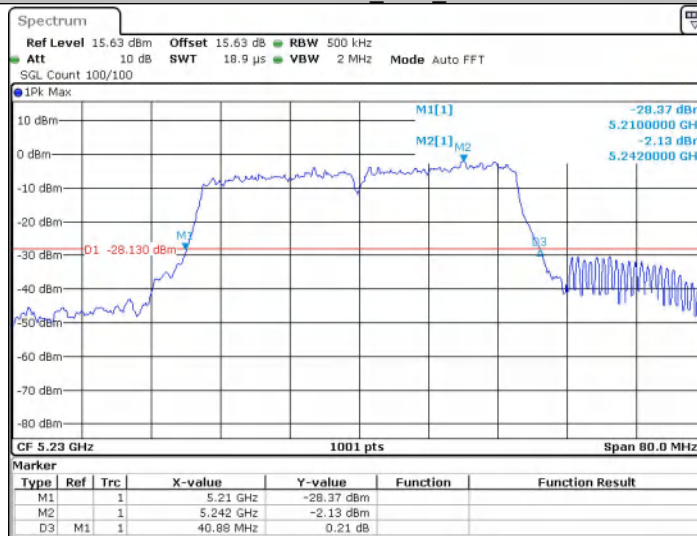
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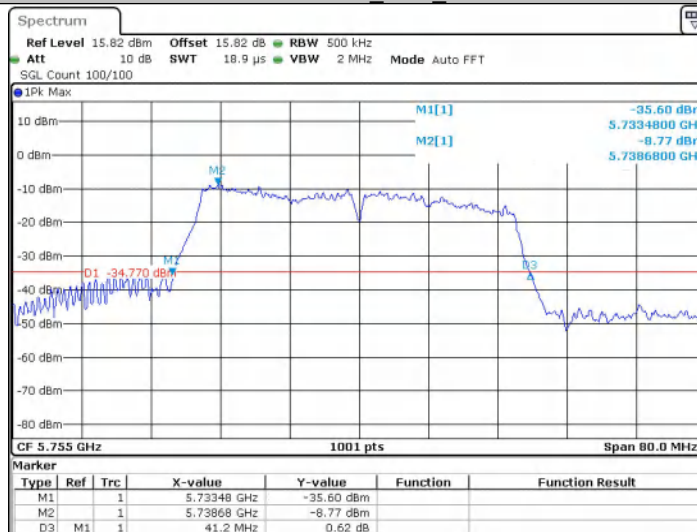
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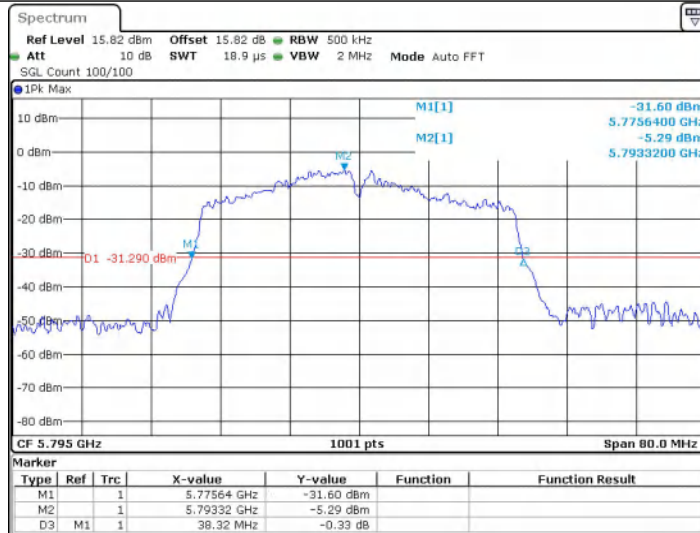
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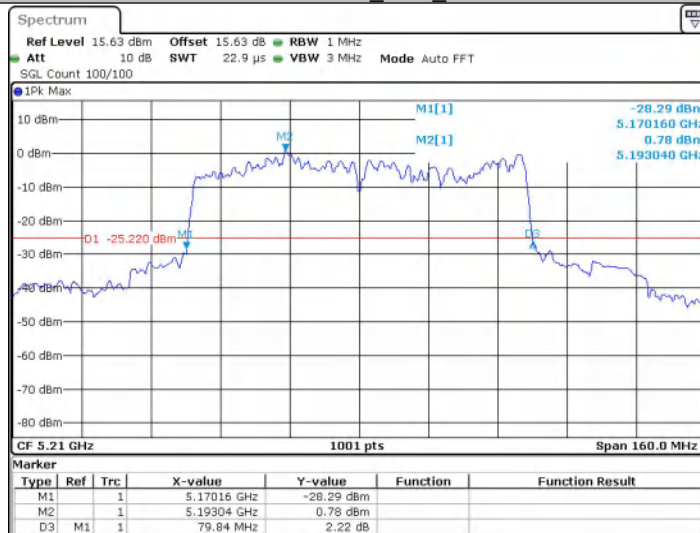
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11AC80MIMO_Ant2_5210

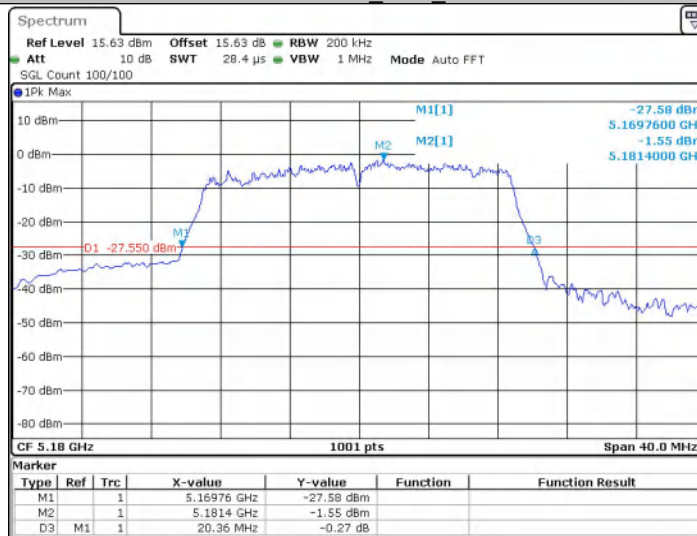


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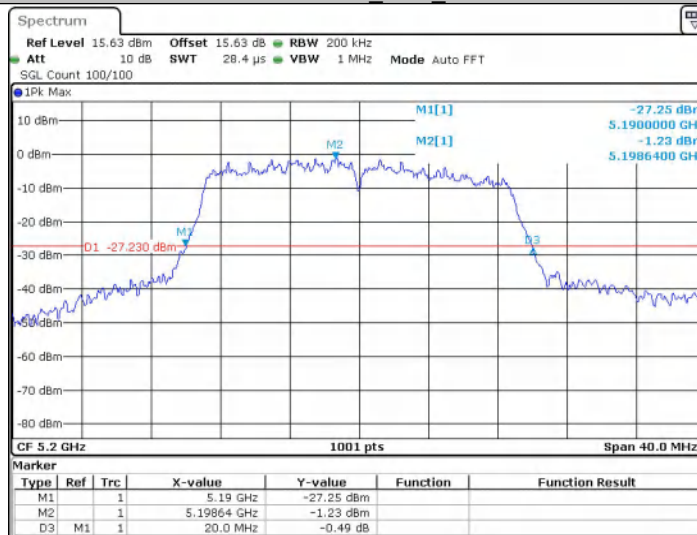
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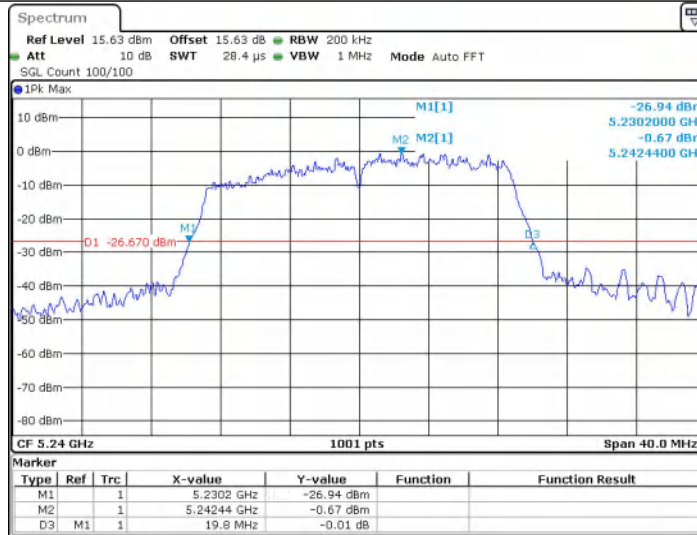
11AX20MIMO_Ant2_5180



11AX20MIMO_Ant2_5200

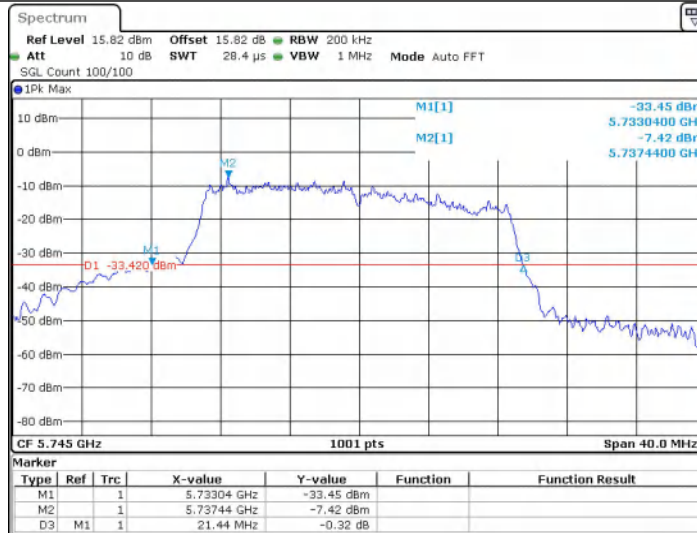


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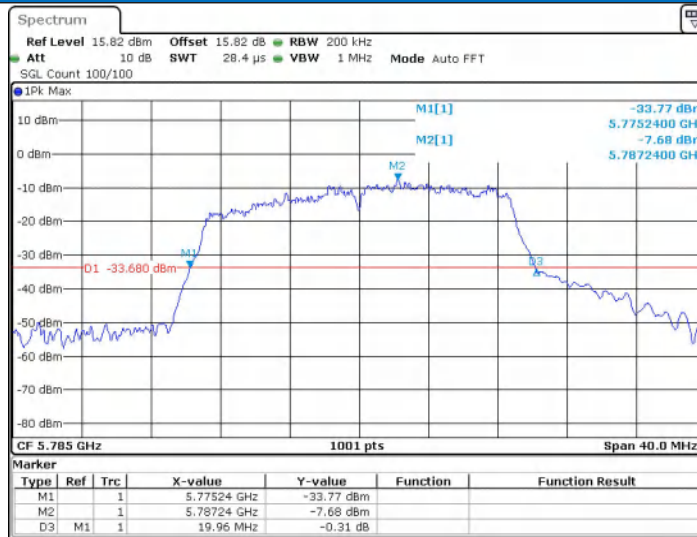
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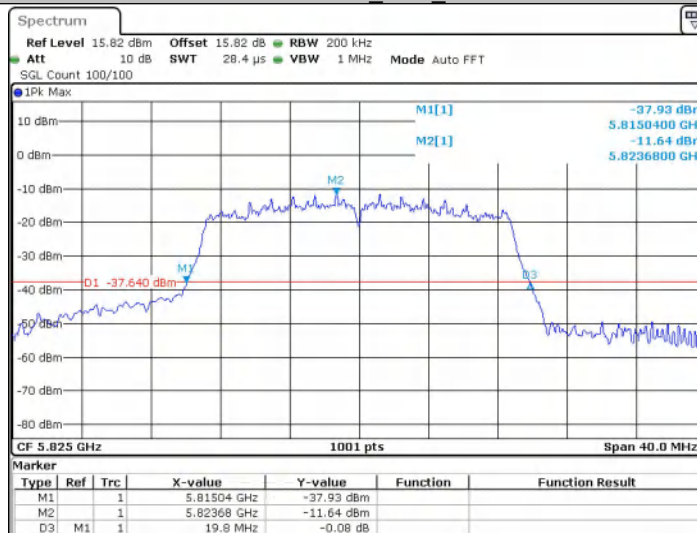
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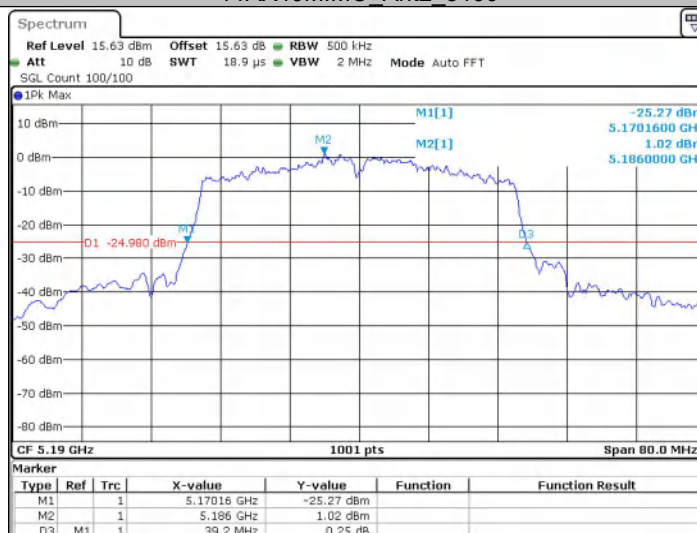
Date: 12 SEP. 2025 11:14:10

11AX20MIMO_Ant2_5825



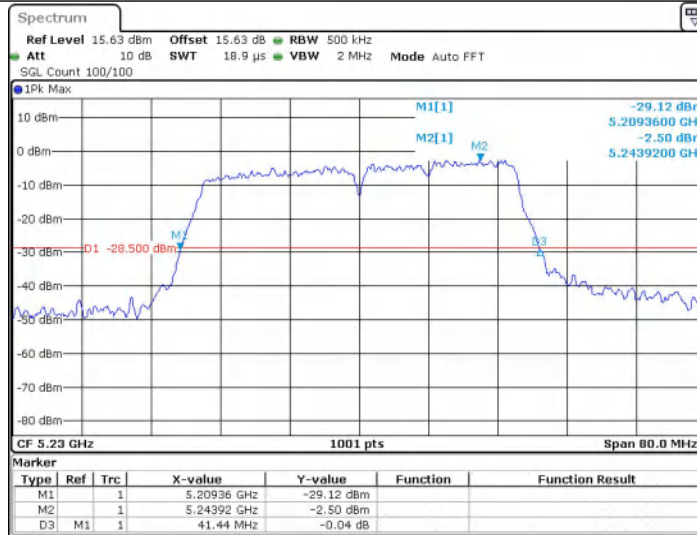
Date: 12 SEP. 2025 11:14:23

11AX40MIMO_Ant2_5190



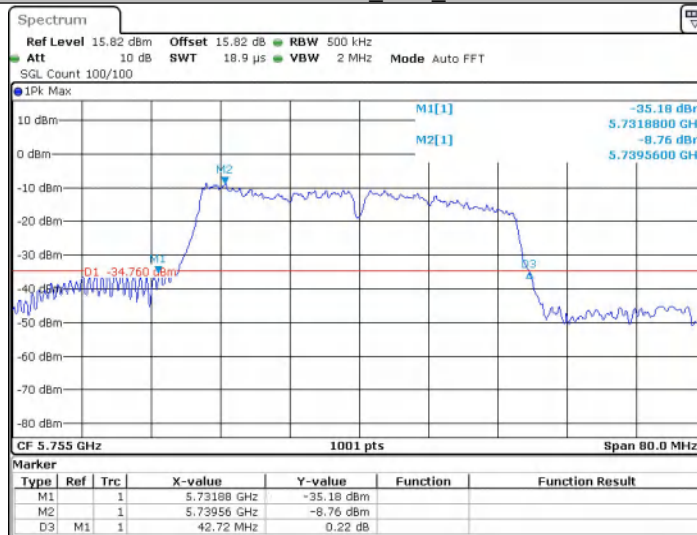
Date: 12 SEP. 2025 11:14:42

11AX40MIMO_Ant2_5230



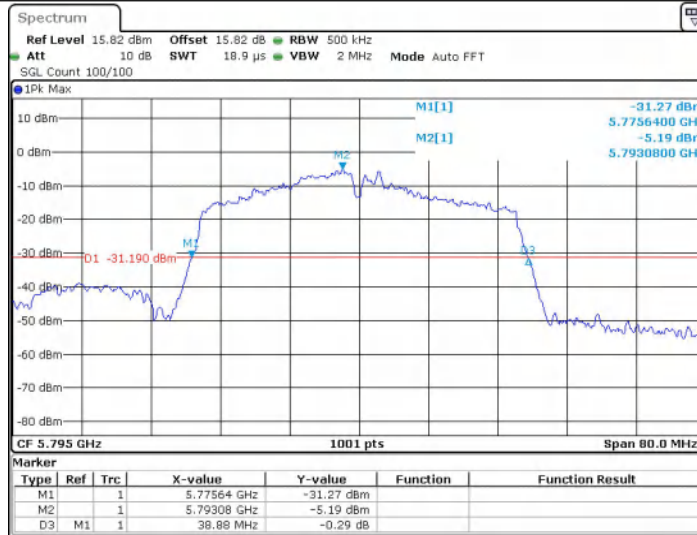
Date: 12 SEP. 2025 11:14:54

11AX40MIMO_Ant2_5755



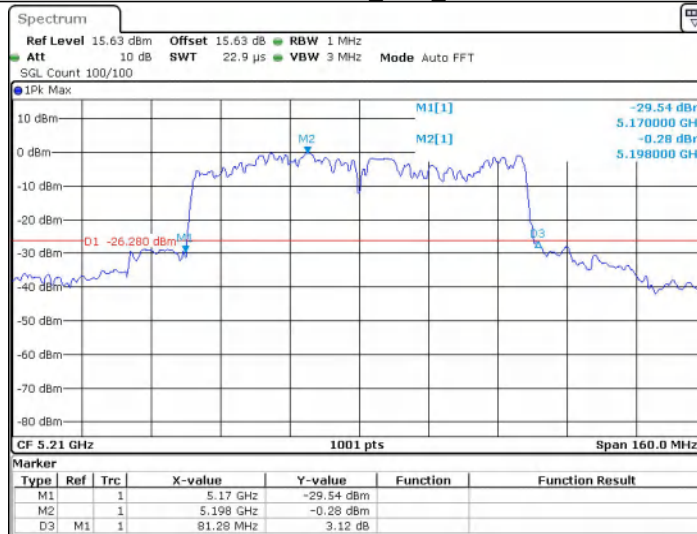
Date: 12 SEP. 2025 11:15:09

11AX40MIMO_Ant2_5795



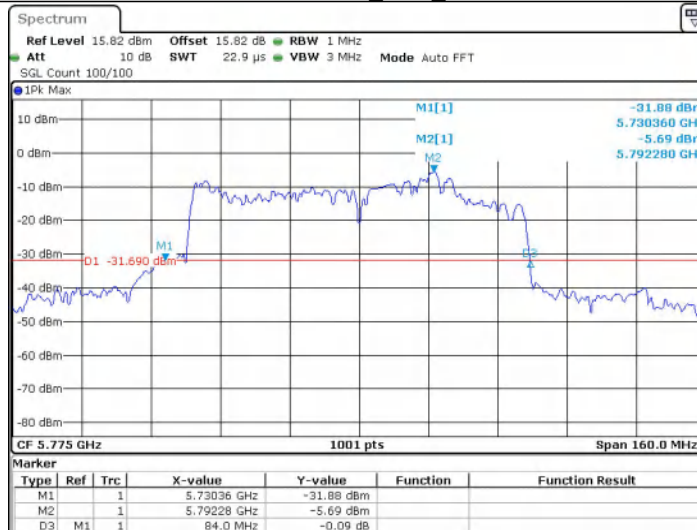
Date: 12 SEP. 2025 11:15:28

11AX80MIMO_Ant2_5210



Date: 12 SEP. 2025 11:15:46

11AX80MIMO_Ant2_5775



Date: 12 SEP. 2025 11:16:02

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:

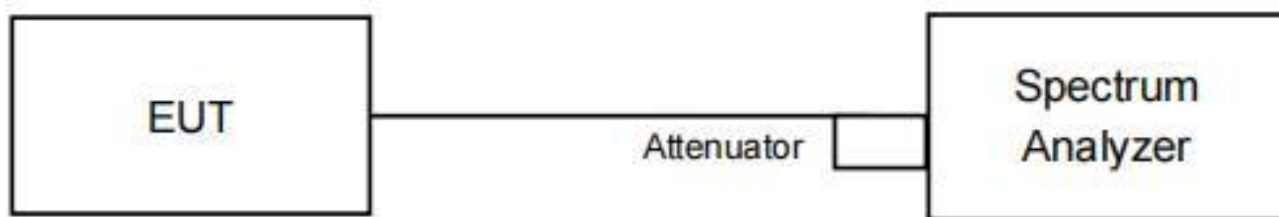
Set RBW = 20MHz

Set VBW = 40MHz

Set detector = peak.

Set span =0Hz

Test Setup Diagram



Measurement Data

Ant 1:

TestMode	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	5180	1.39	1.44	96.53
	5200	1.39	1.44	96.53
	5240	1.38	1.43	96.50
	5745	1.39	1.44	96.53
	5785	1.39	1.43	97.20
	5825	1.31	1.36	96.32
11N20MIMO	5180	1.30	1.34	97.01
	5200	1.30	1.34	97.01
	5240	1.30	1.35	96.30
	5745	1.29	1.34	96.27
	5785	1.30	1.35	96.30
	5825	1.31	1.35	97.04
11N40MIMO	5190	0.65	0.70	92.86
	5230	0.65	0.69	94.20
	5755	0.65	0.69	94.20
	5795	0.65	0.70	92.86
11AC20MIMO	5180	1.31	1.36	96.32
	5200	1.31	1.35	97.04
	5240	1.31	1.35	97.04
	5745	1.31	1.36	96.32
	5785	1.31	1.36	96.32
	5825	1.31	1.36	96.32
11AC40MIMO	5190	0.65	0.70	92.86
	5230	0.65	0.69	94.20
	5755	0.66	0.70	94.29
	5795	0.65	0.69	94.20
11AC80MIMO	5210	0.33	0.37	89.19
	5775	1.06	1.08	98.15
11AX20MIMO	5180	1.30	1.34	97.01
	5200	1.30	1.35	96.30
	5240	1.30	1.35	96.30
	5745	1.29	1.34	96.27
	5785	1.31	1.36	96.32

	5825	1.29	1.34	96.27
11AX40MIMO	5190	0.65	0.69	94.20
	5230	0.64	0.69	92.75
	5755	0.64	0.69	92.75
	5795	0.65	0.69	94.20
11AX80MIMO	5210	1.06	1.09	97.25
	5775	1.06	1.09	97.25

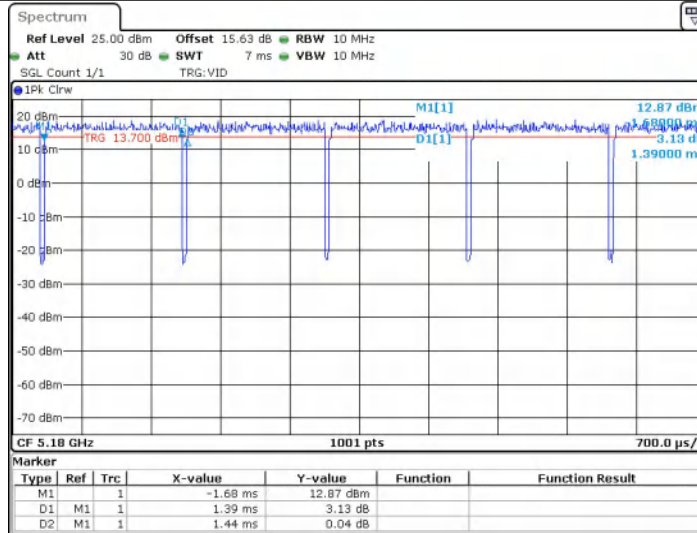
Ant 2:

TestMode	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	5180	1.39	1.44	96.53
	5200	1.39	1.44	96.53
	5240	1.38	1.43	96.50
	5745	1.39	1.44	96.53
	5785	1.39	1.43	97.20
	5825	1.31	1.36	96.32
11N20MIMO	5180	1.30	1.34	97.01
	5200	1.30	1.34	97.01
	5240	1.30	1.35	96.30
	5745	1.29	1.34	96.27
	5785	1.30	1.35	96.30
	5825	1.31	1.35	97.04
11N40MIMO	5190	0.65	0.70	92.86
	5230	0.65	0.69	94.20
	5755	0.65	0.69	94.20
	5795	0.65	0.70	92.86
11AC20MIMO	5180	1.31	1.36	96.32
	5200	1.31	1.35	97.04
	5240	1.31	1.35	97.04
	5745	1.31	1.36	96.32
	5785	1.31	1.36	96.32
	5825	1.31	1.36	96.32
11AC40MIMO	5190	0.65	0.70	92.86
	5230	0.65	0.69	94.20
	5755	0.66	0.70	94.29
	5795	0.65	0.69	94.20
11AC80MIMO	5210	0.33	0.37	89.19
	5775	1.06	1.08	98.15
11AX20MIMO	5180	1.30	1.34	97.01
	5200	1.30	1.35	96.30
	5240	1.30	1.35	96.30
	5745	1.29	1.34	96.27
	5785	1.31	1.36	96.32
	5825	1.29	1.34	96.27

11AX40MIMO	5190	0.65	0.69	94.20
	5230	0.64	0.69	92.75
	5755	0.64	0.69	92.75
	5795	0.65	0.69	94.20
11AX80MIMO	5210	1.06	1.09	97.25
	5775	1.06	1.09	97.25

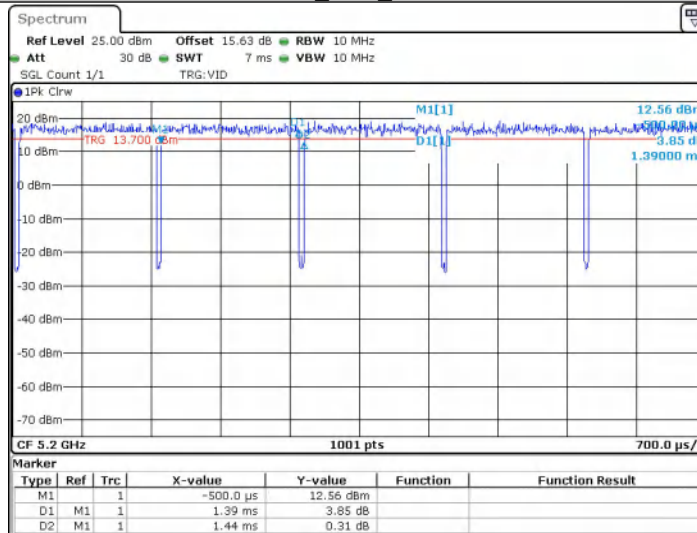
Ant 1:

11A_Ant1_5180



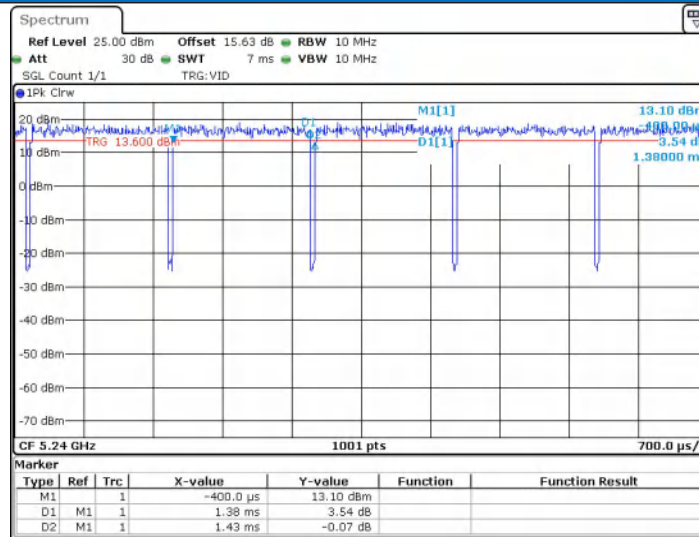
Date: 9 SEP 2025 10:24:25

11A_Ant1_5200



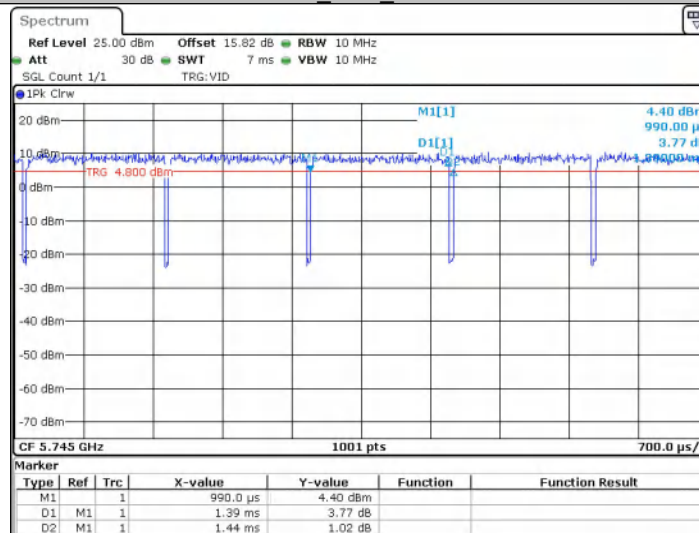
Date: 9 SEP 2025 10:27:05

11A_Ant1_5240



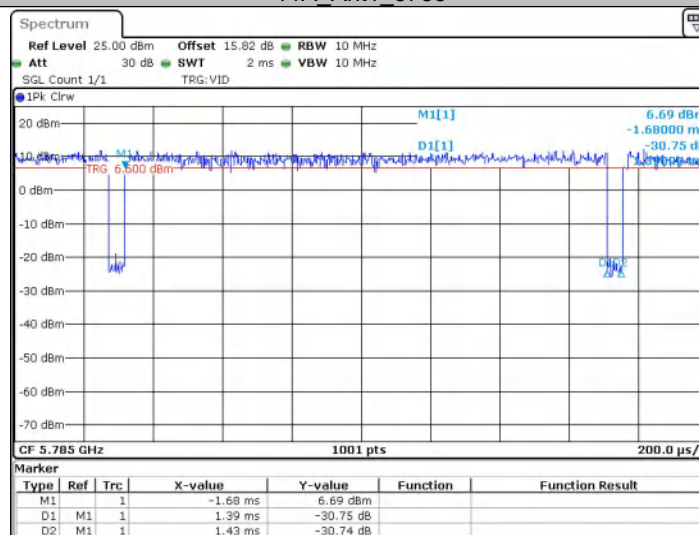
Date: 9 SEP 2025 10:28:13

11A_Ant1_5745



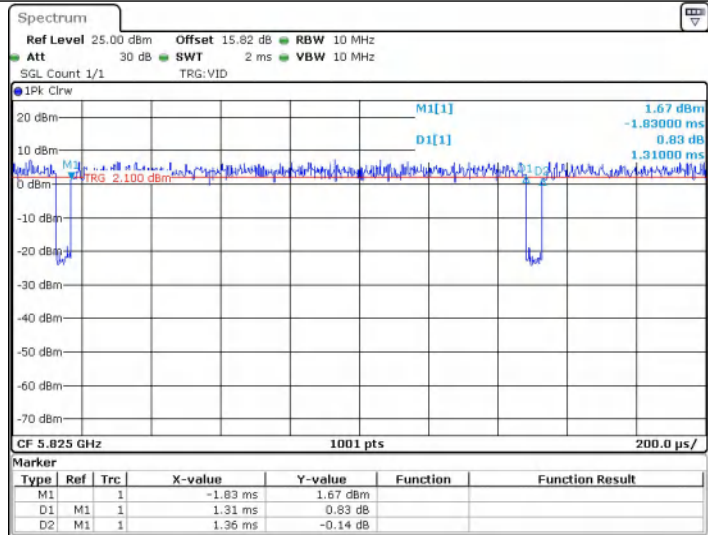
Date: 9 SEP 2025 10:31:24

11A_Ant1_5785



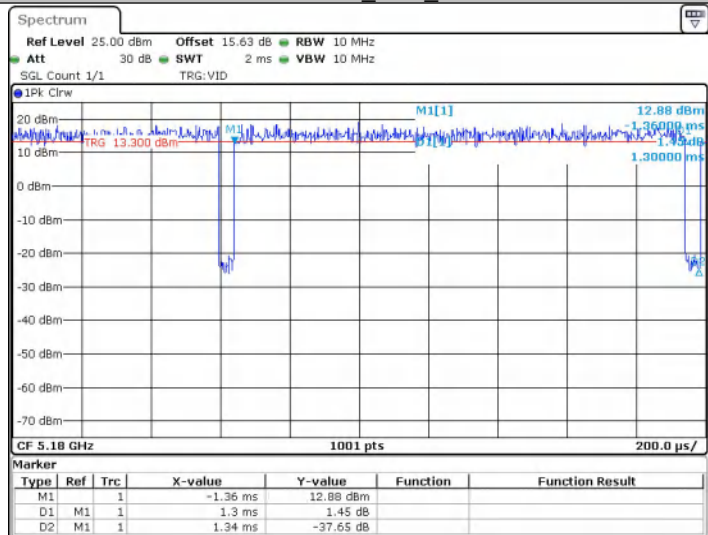
Date: 9 SEP 2025 10:33:20

11A_Ant1_5825



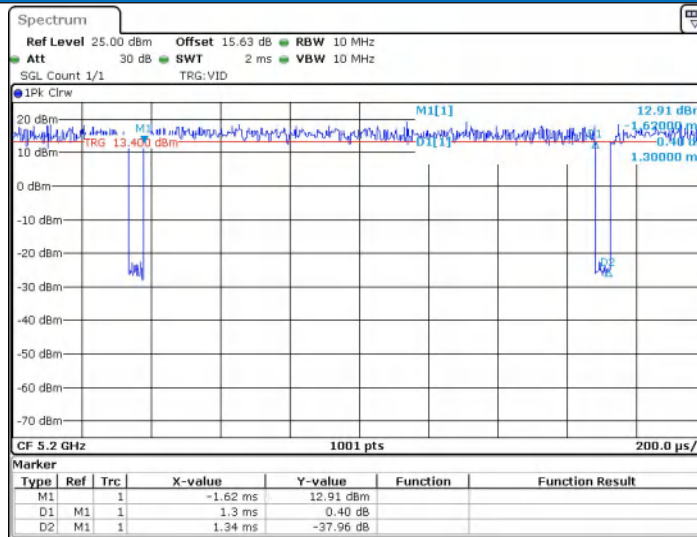
Date: 9 SEP 2025 18:53:30

11N20MIMO_Ant1_5180



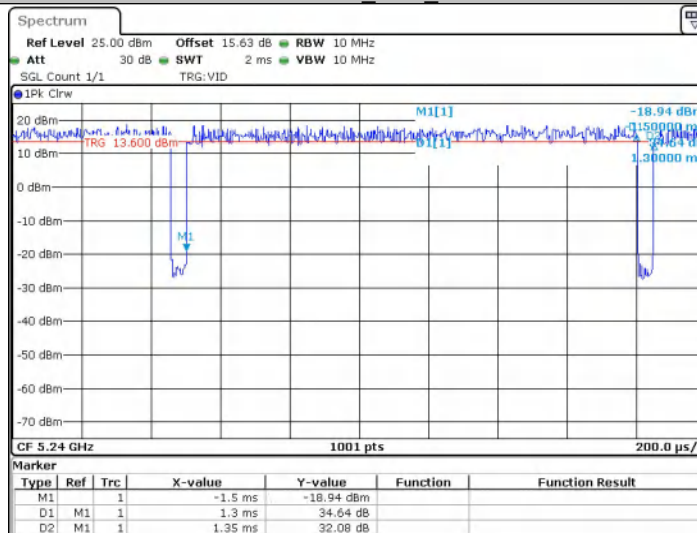
Date: 9 SEP 2025 10:36:27

11N20MIMO_Ant1_5200



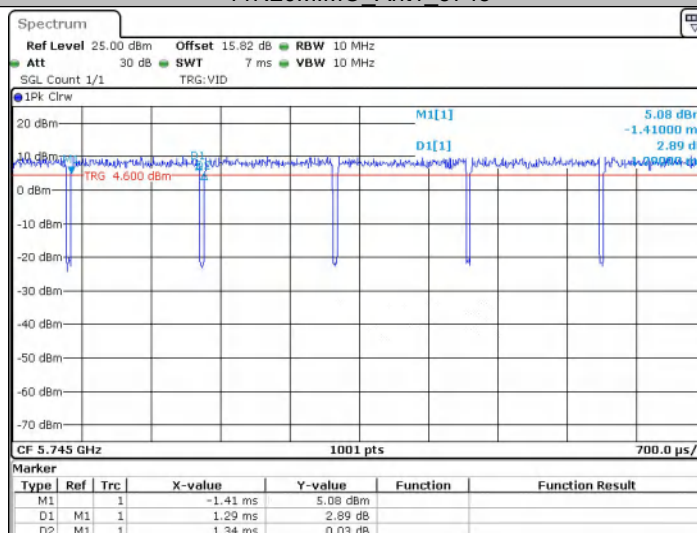
Date: 9 SEP 2025 10:39:40

11N20MIMO_Ant1_5240



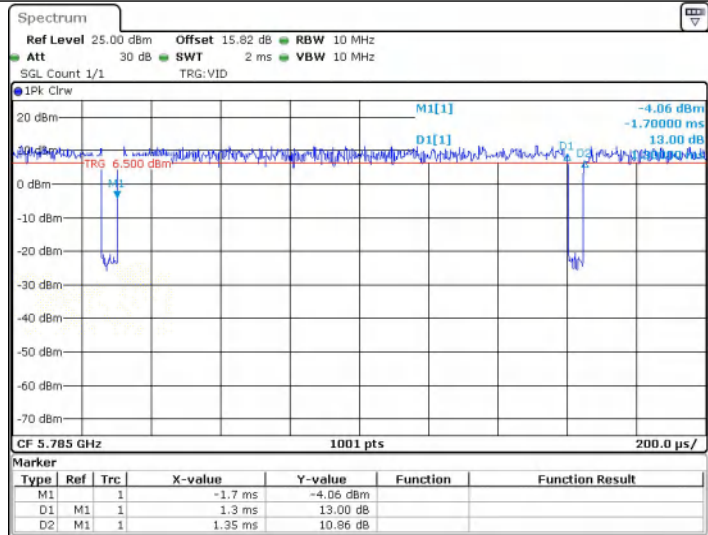
Date: 9 SEP 2025 10:42:15

11N20MIMO_Ant1_5745



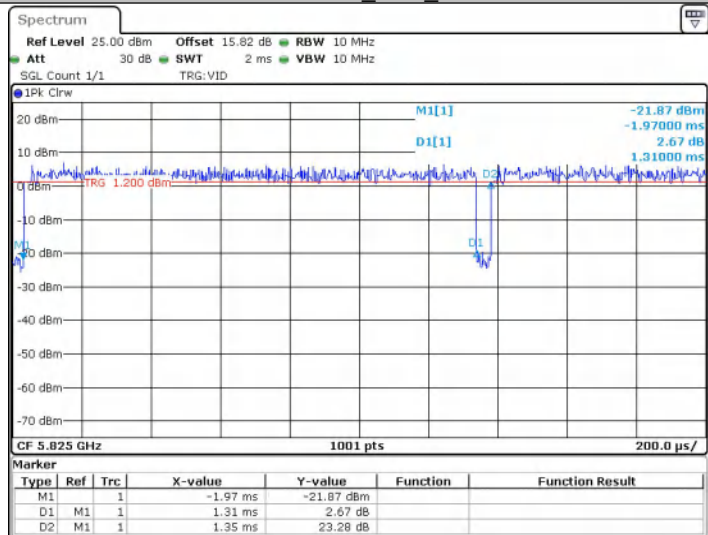
Date: 9 SEP 2025 10:45:00

11N20MIMO_Ant1_5785



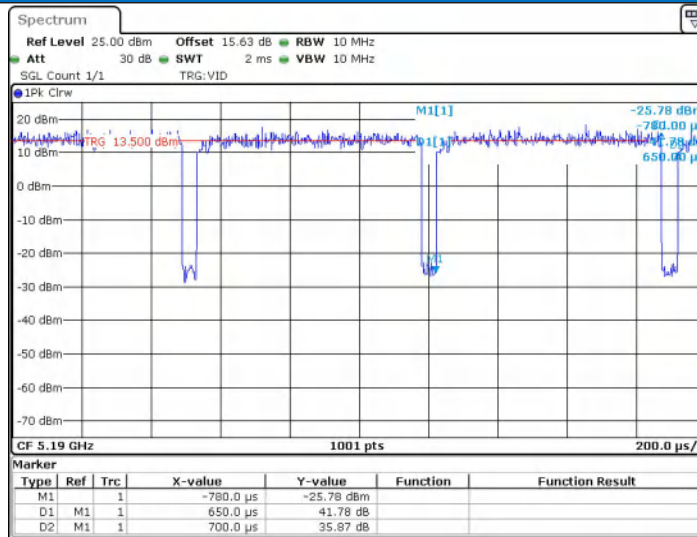
Date: 9 SEP 2025 10:46:32

11N20MIMO_Ant1_5825



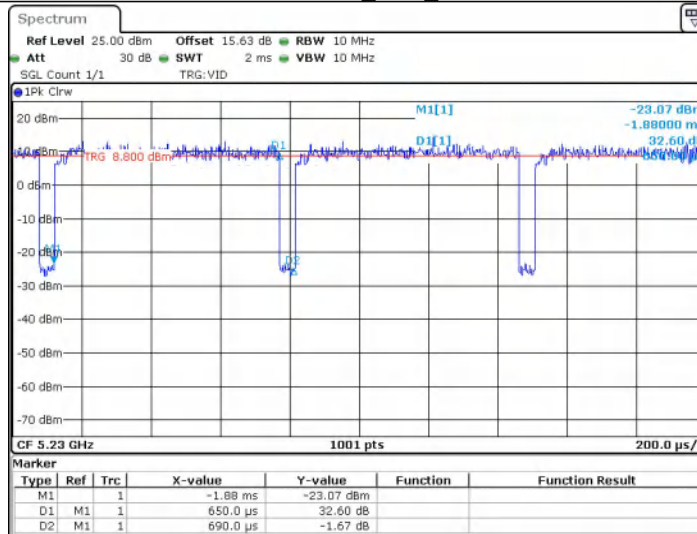
Date: 9 SEP 2025 10:47:50

11N40MIMO_Ant1_5190



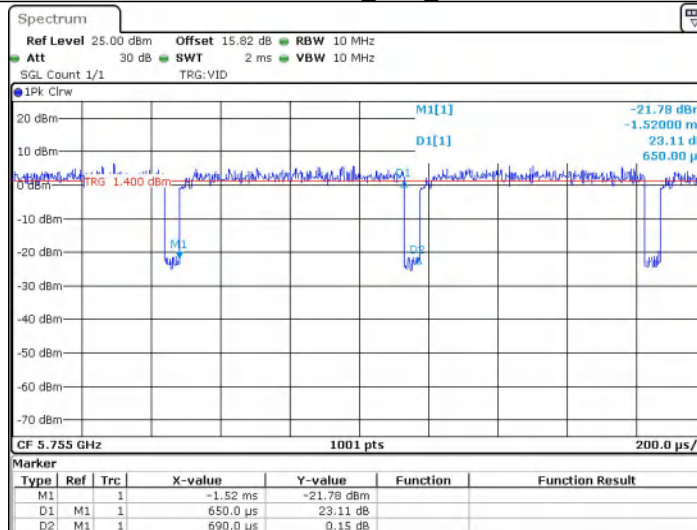
Date: 9 SEP 2025 10:49:27

11N40MIMO_Ant1_5230



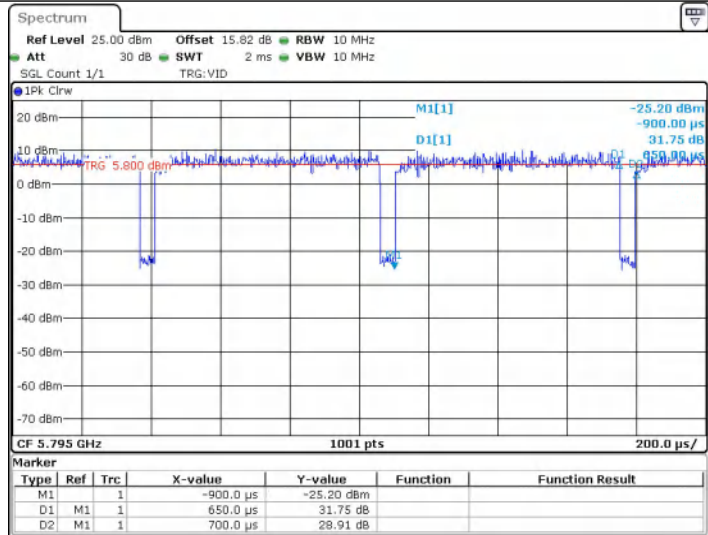
Date: 9 SEP 2025 10:51:25

11N40MIMO_Ant1_5755



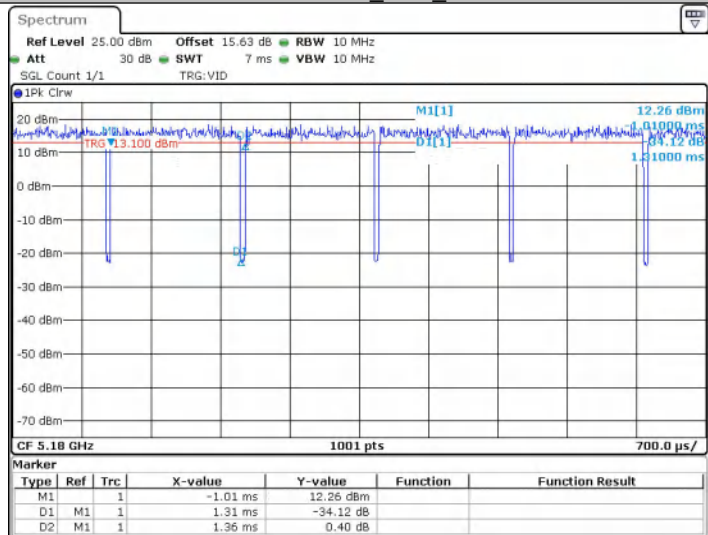
Date: 9 SEP 2025 10:53:50

11N40MIMO_Ant1_5795



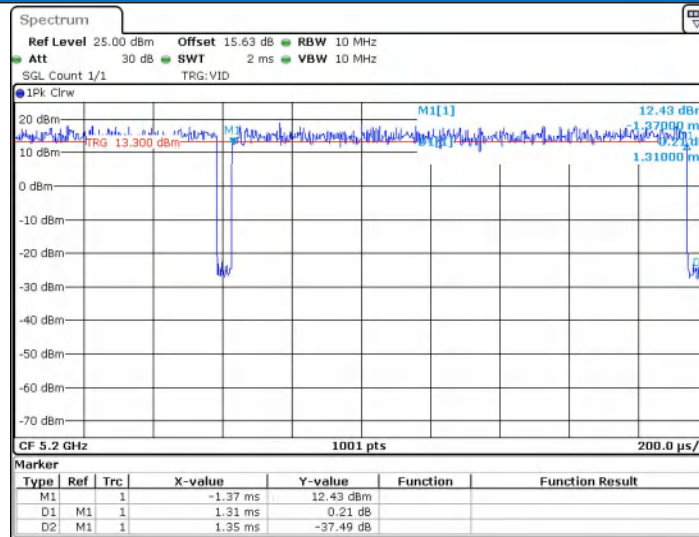
Date: 9 SEP 2025 11:11:55

11AC20MIMO_Ant1_5180



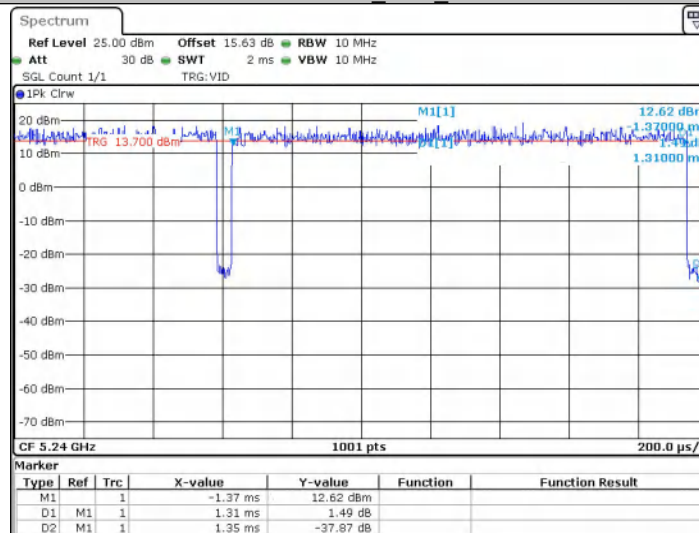
Date: 9 SEP 2025 11:13:41

11AC20MIMO_Ant1_5200



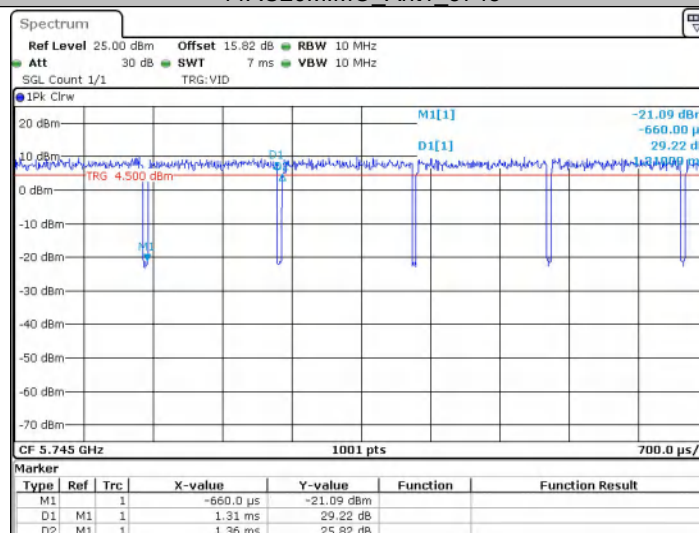
Date: 9 SEP 2025 11:16:23

11AC20MIMO_Ant1_5240



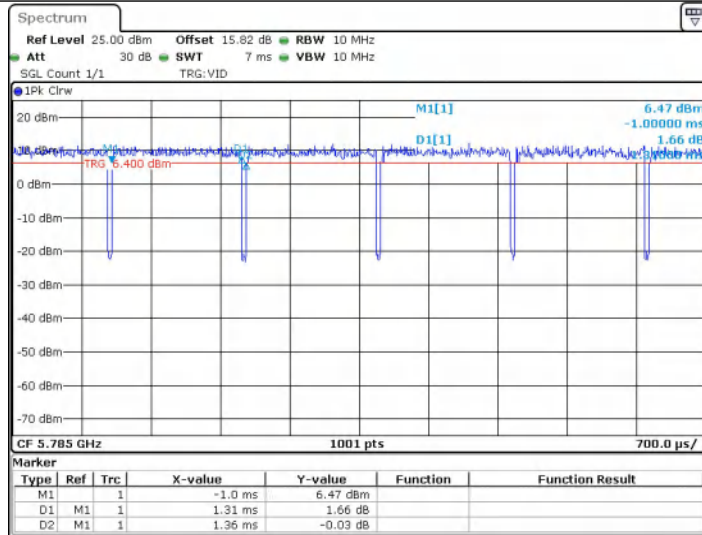
Date: 9 SEP 2025 11:17:38

11AC20MIMO_Ant1_5745



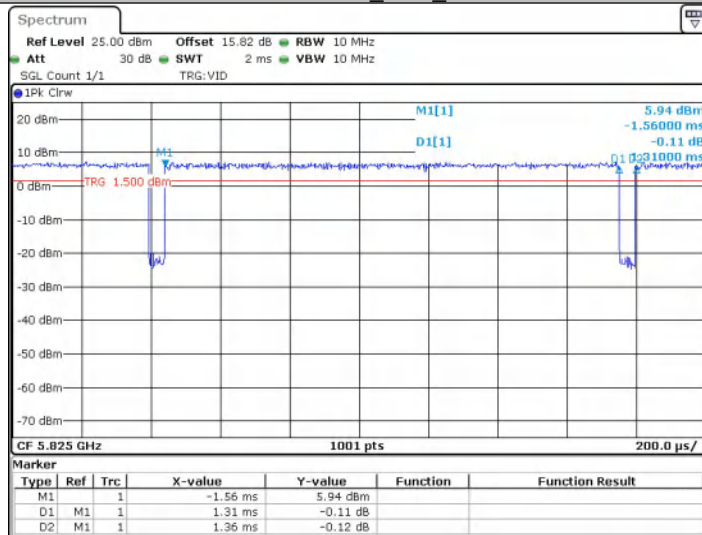
Date: 9 SEP 2025 11:20:15

11AC20MIMO_Ant1_5785



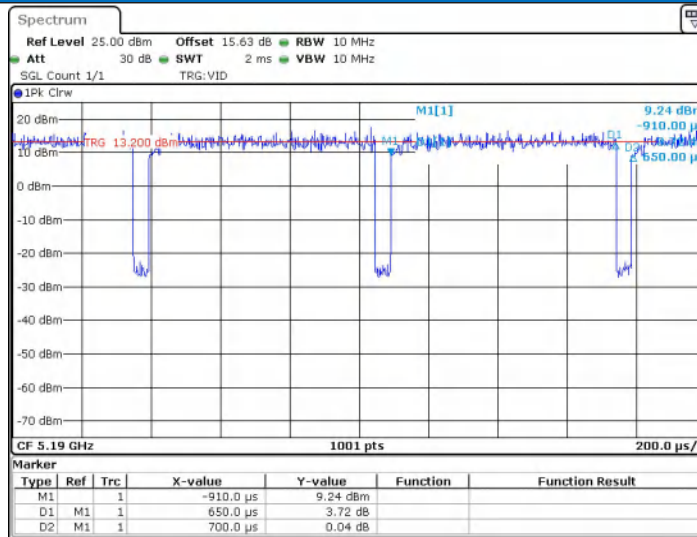
Date: 9 SEP 2025 11:22:13

11AC20MIMO_Ant1_5825



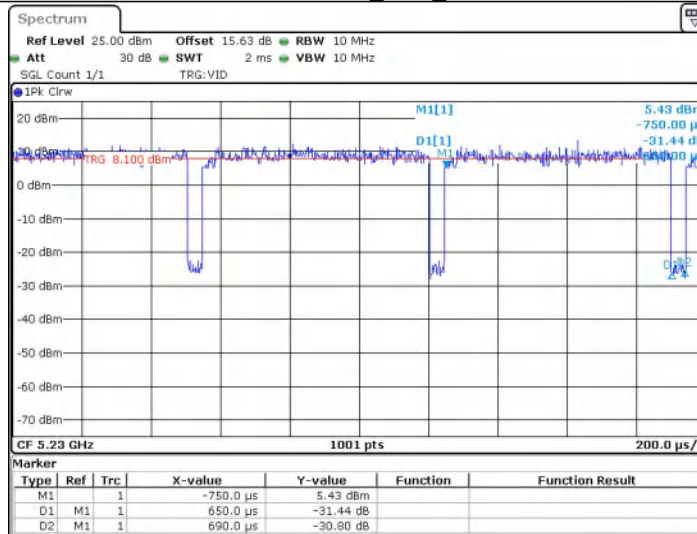
Date: 9 SEP 2025 11:25:42

11AC40MIMO_Ant1_5190



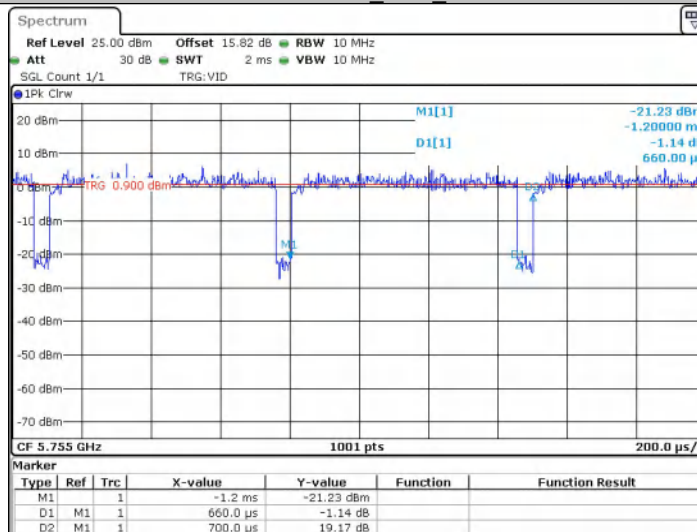
Date: 9 SEP 2025 11:27:24

11AC40MIMO_Ant1_5230



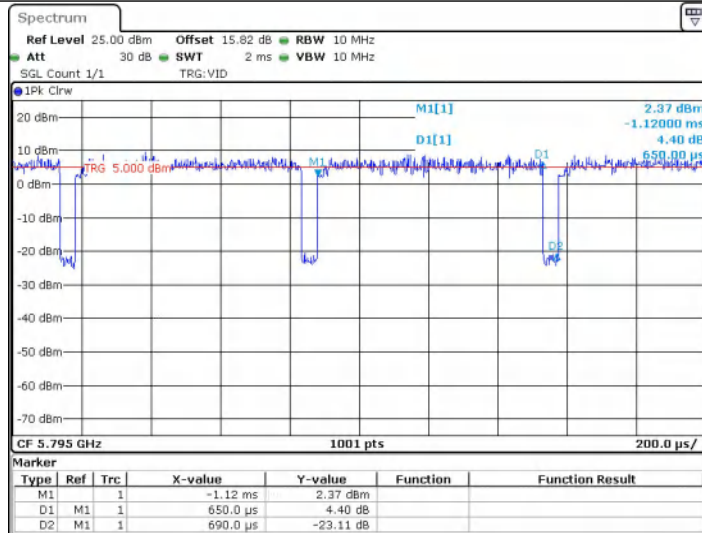
Date: 9 SEP 2025 11:29:16

11AC40MIMO_Ant1_5755



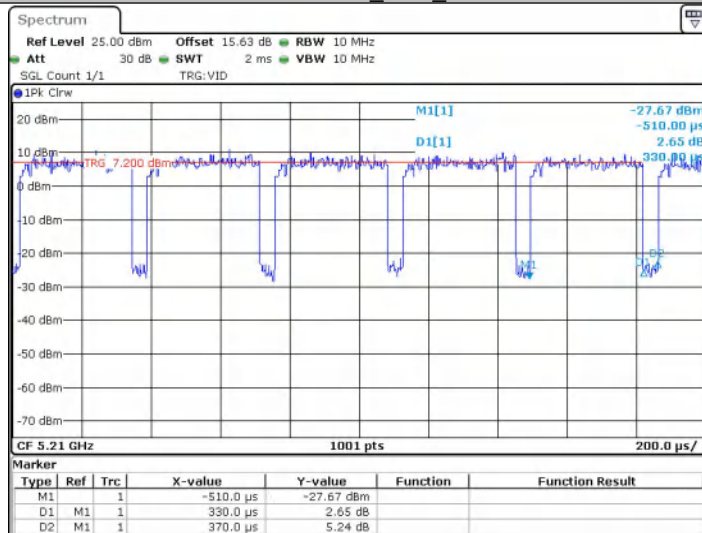
Date: 9 SEP 2025 11:31:04

11AC40MIMO_Ant1_5795



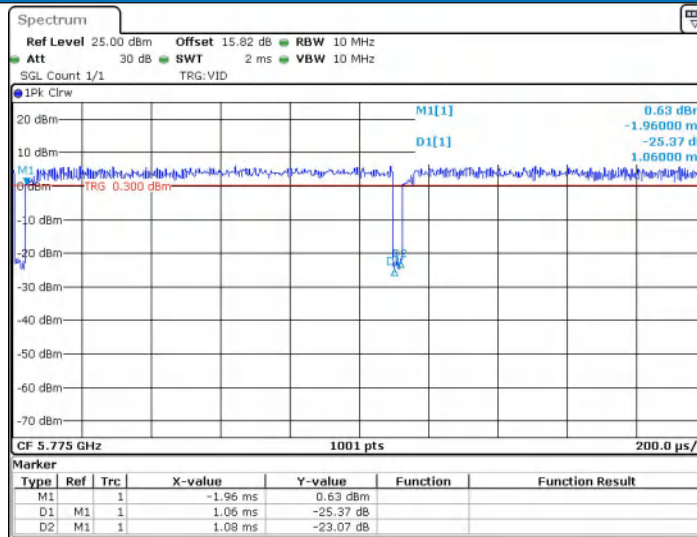
Date: 9 SEP 2025 11:33:36

11AC80MIMO_Ant1_5210



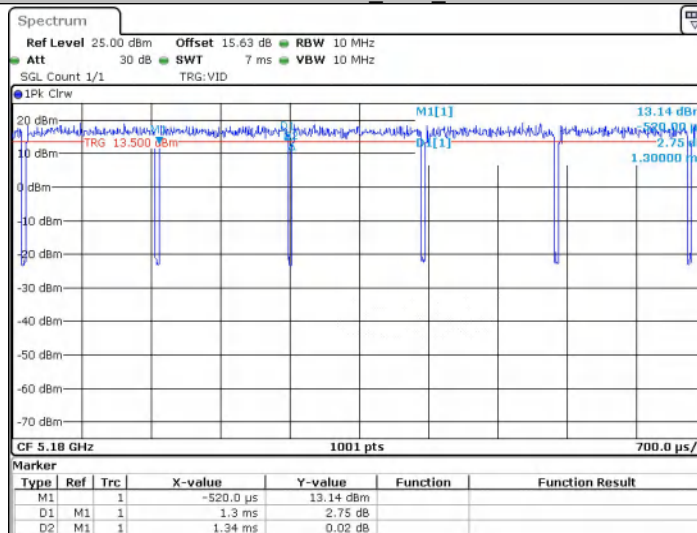
Date: 9 SEP 2025 11:35:35

11AC80MIMO_Ant1_5775



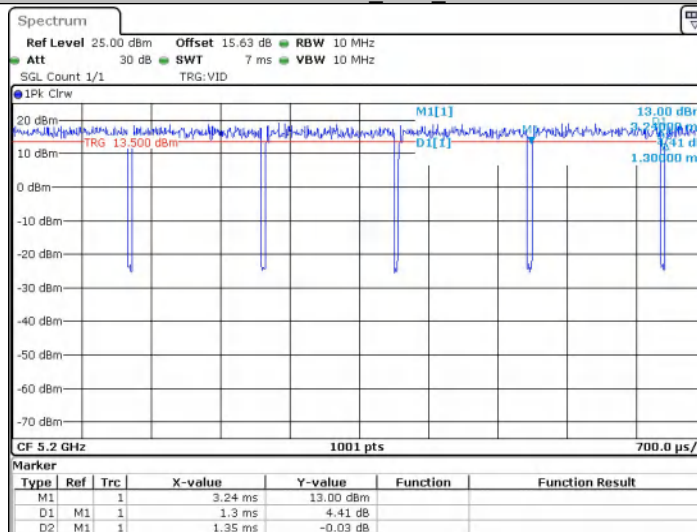
Date: 9 SEP 2025 11:42:11

11AX20MIMO_Ant1_5180



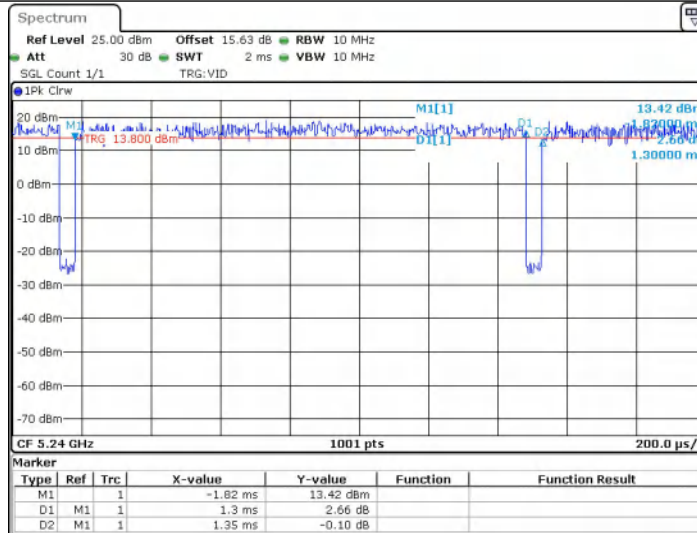
Date: 9 SEP 2025 11:44:28

11AX20MIMO_Ant1_5200



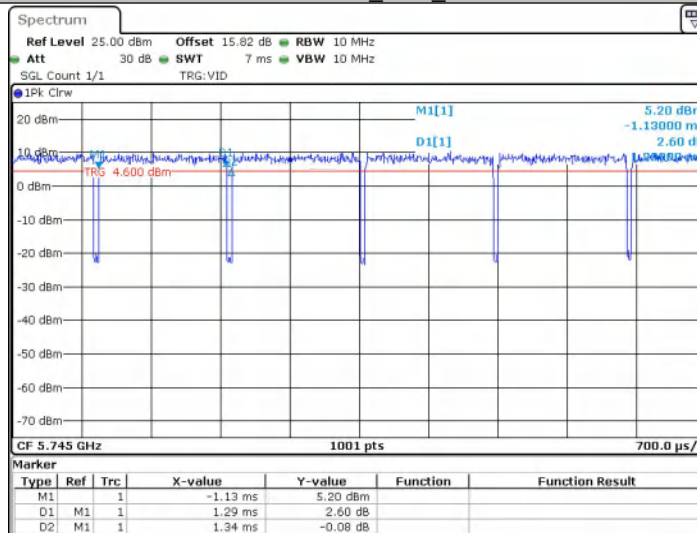
Date: 9 SEP 2025 11:46:51

11AX20MIMO_Ant1_5240



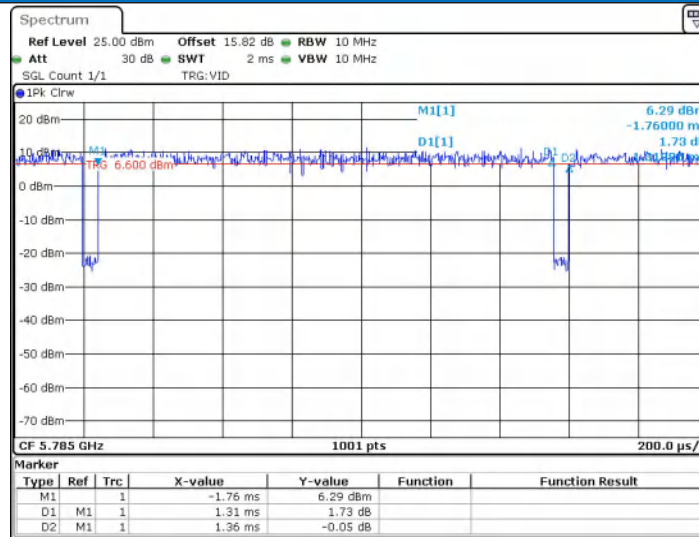
Date: 9 SEP. 2025 11:48:51

11AX20MIMO_Ant1_5745



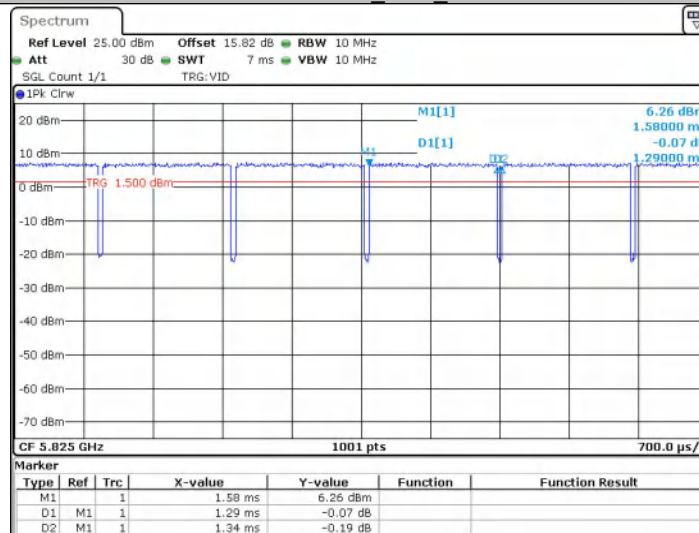
Date: 9 SEP. 2025 11:51:40

11AX20MIMO_Ant1_5785



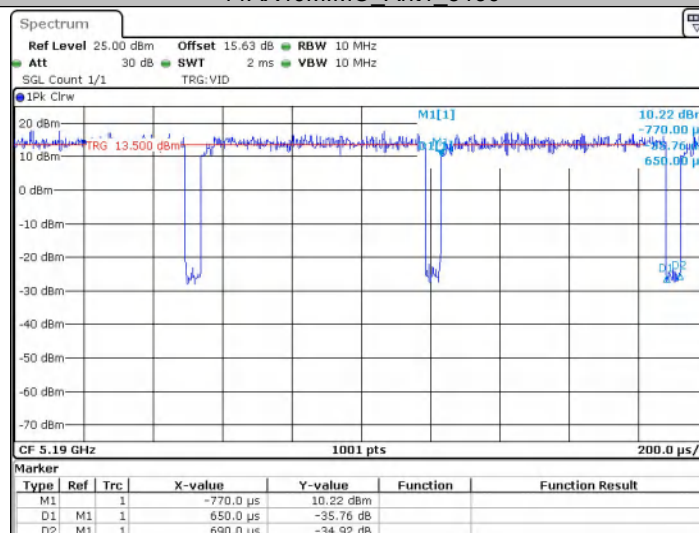
Date: 10 SEP 2025 15:48:09

11AX20MIMO_Ant1_5825



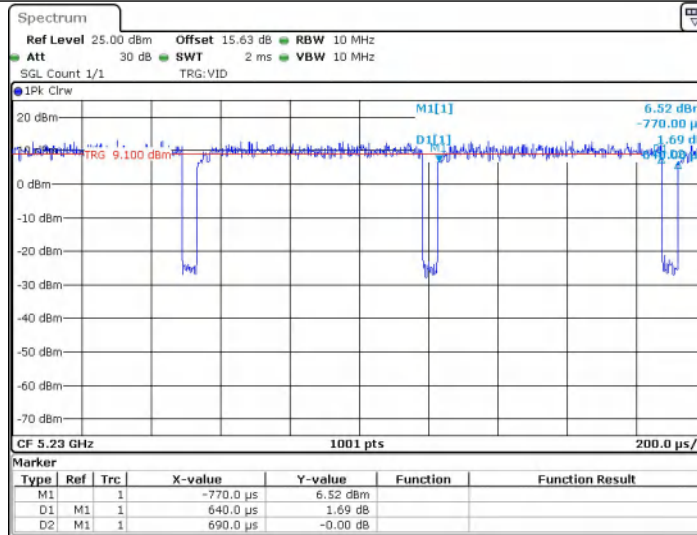
Date: 9 SEP 2025 11:56:40

11AX40MIMO_Ant1_5190



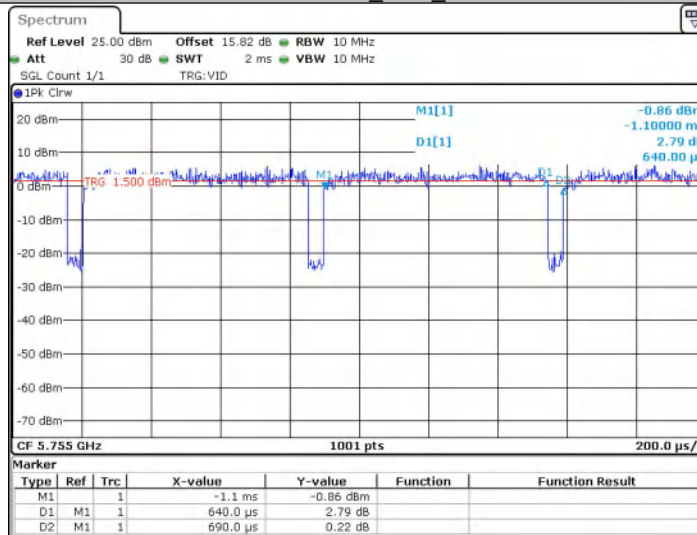
Date: 9 SEP 2025 11:56:59

11AX40MIMO_Ant1_5230



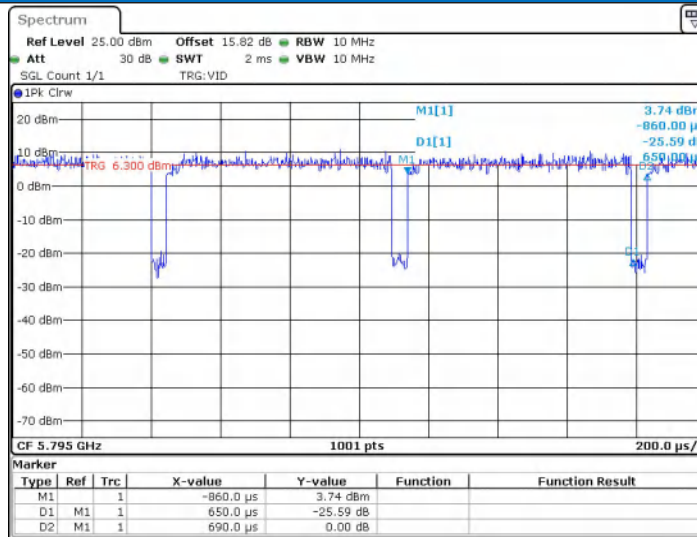
Date: 9 SEP 2025 12:01:24

11AX40MIMO_Ant1_5755



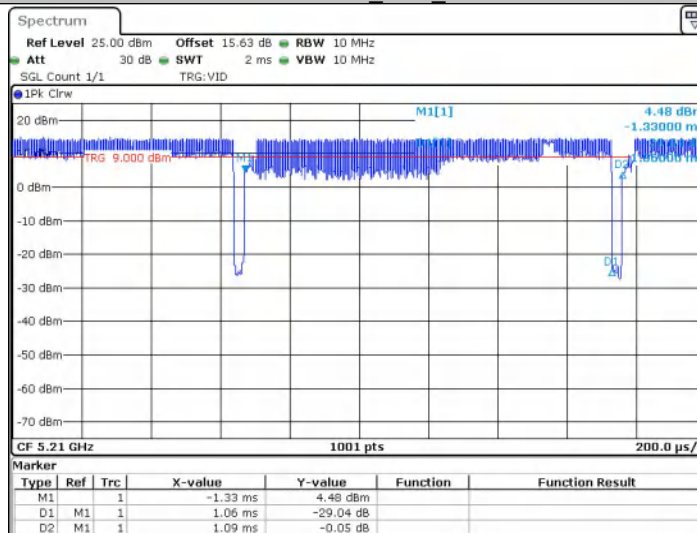
Date: 9 SEP 2025 12:03:13

11AX40MIMO_Ant1_5795



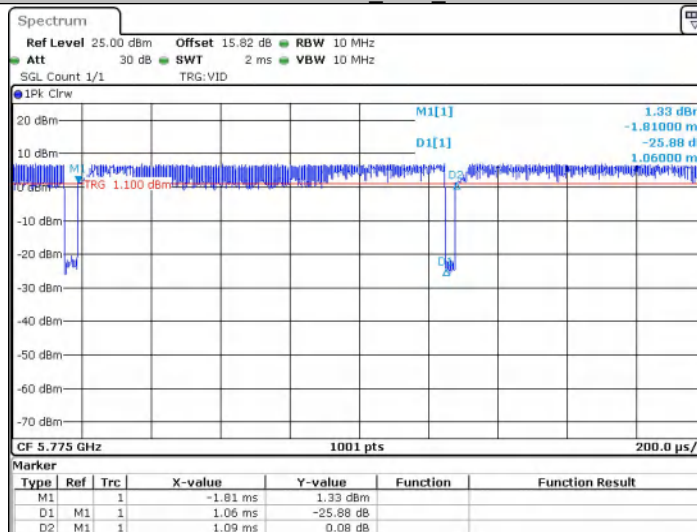
Date: 9 SEP 2025 12:04:55

11AX80MIMO_Ant1_5210



Date: 9 SEP 2025 12:06:46

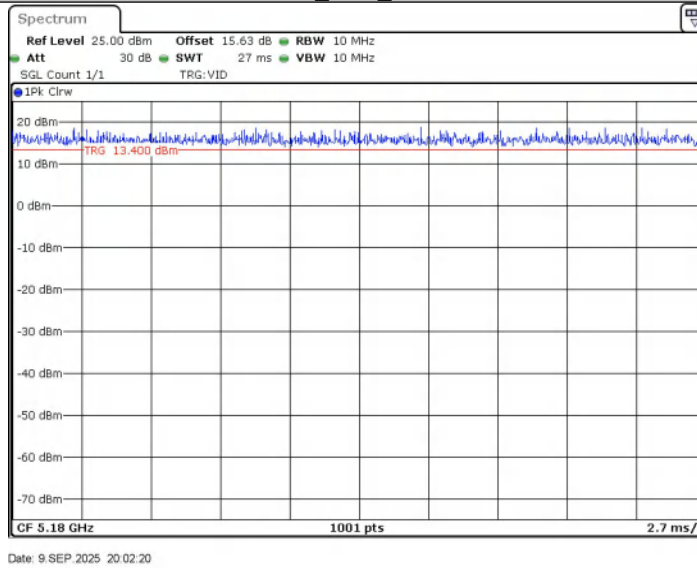
11AX80MIMO_Ant1_5775



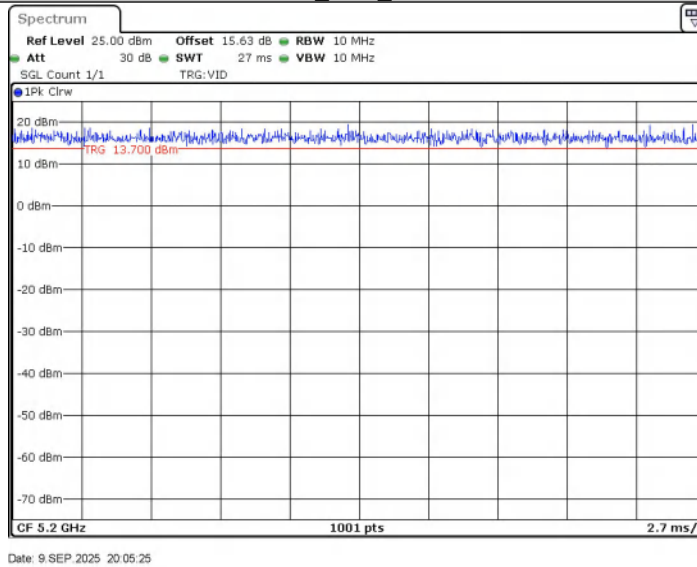
Date: 9 SEP 2025 12:09:43

Ant 2:

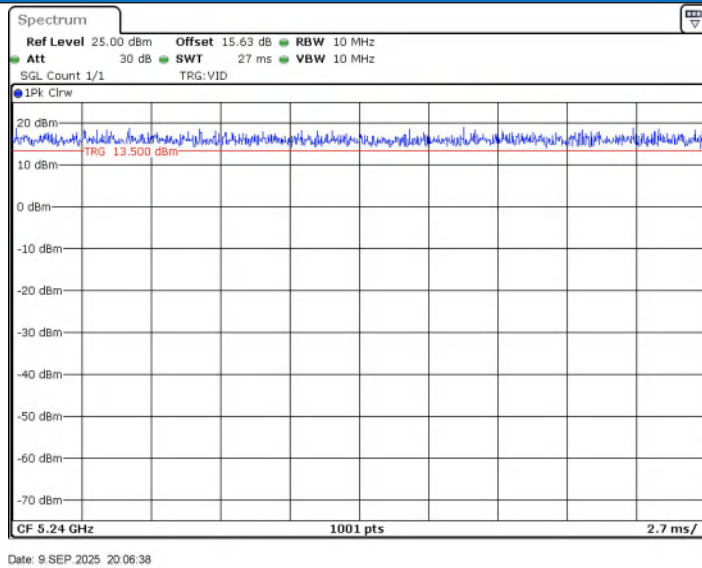
11A_Ant2_5180



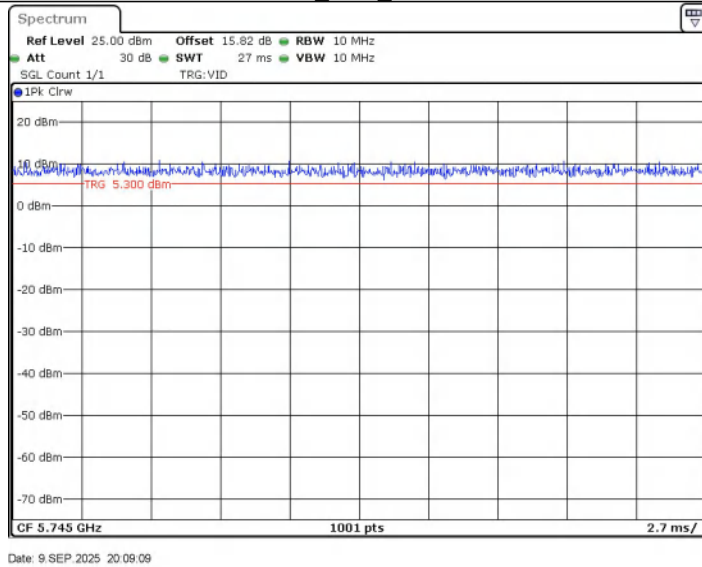
11A_Ant2_5200



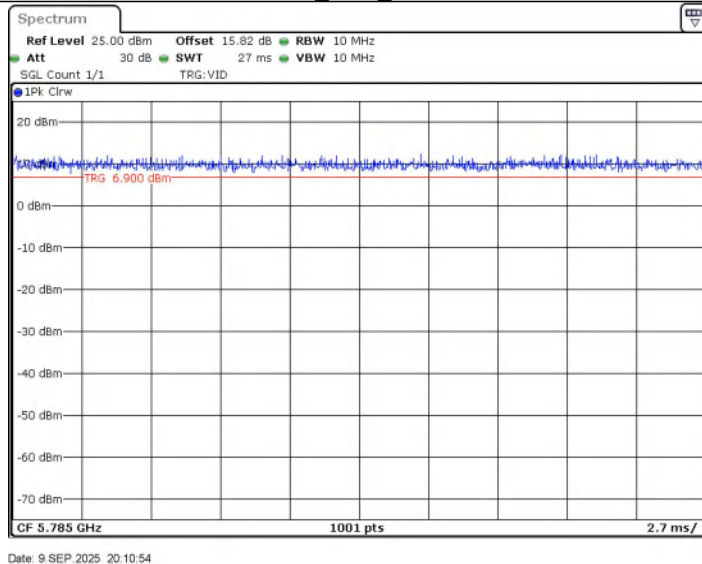
11A_Ant2_5240



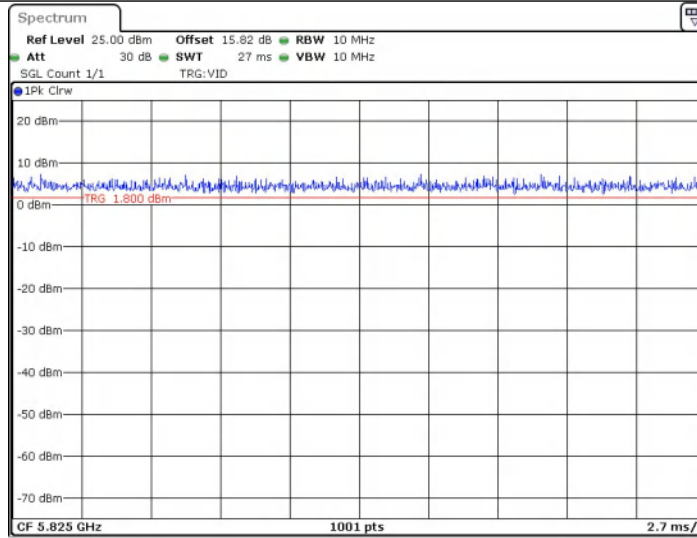
11A_Ant2_5745



11A_Ant2_5785

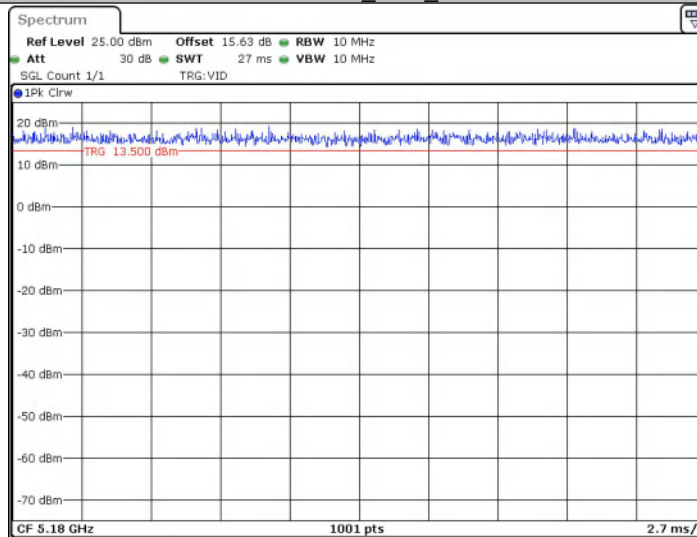


11A_Ant2_5825



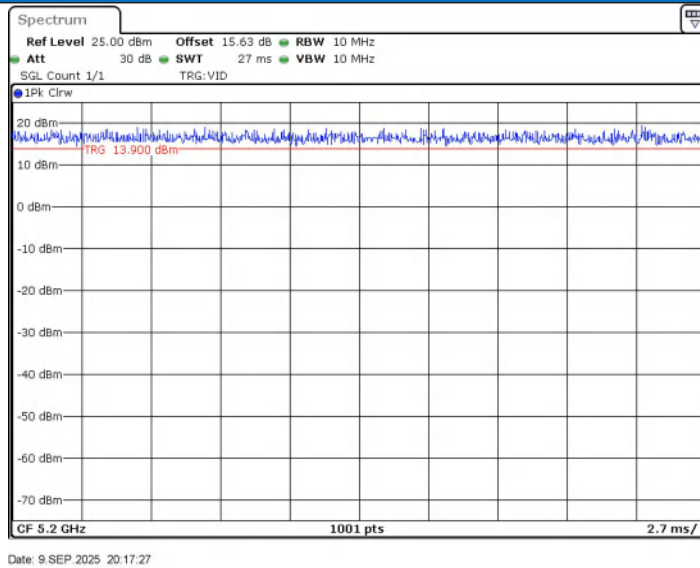
Date: 9 SEP. 2025 20:12:42

11N20MIMO_Ant2_5180

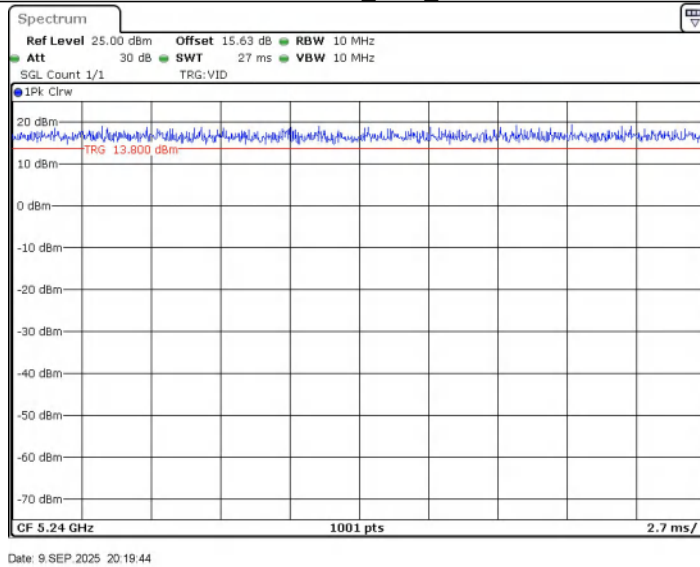


Date: 9 SEP. 2025 20:14:43

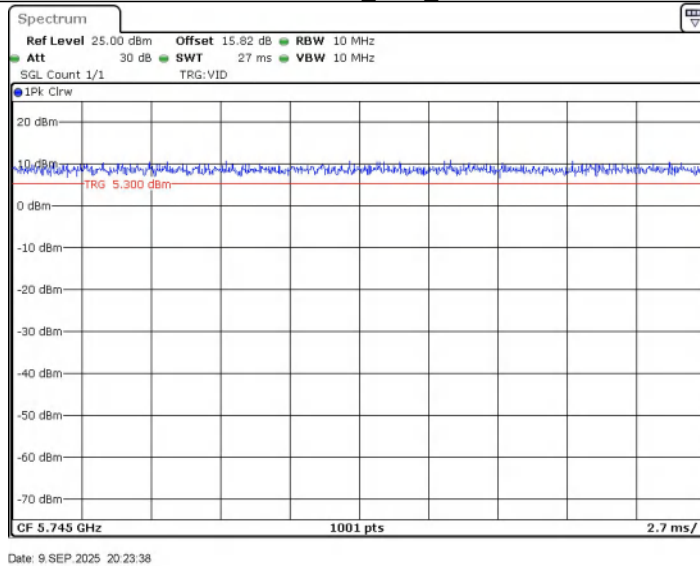
11N20MIMO_Ant2_5200



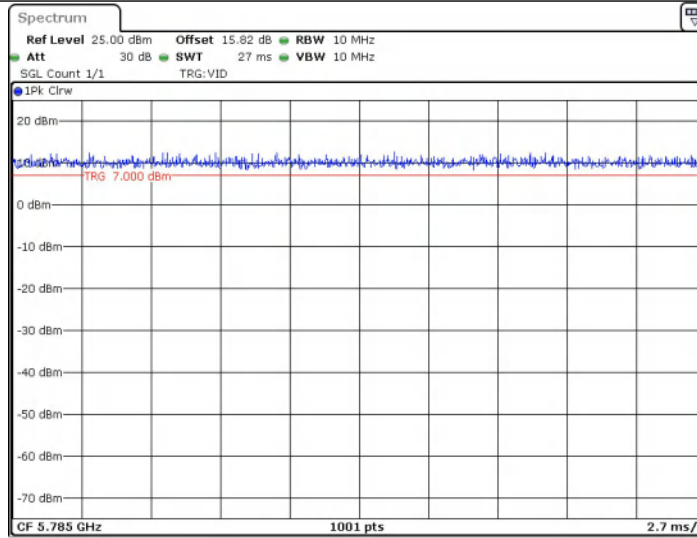
11N20MIMO_Ant2_5240



11N20MIMO_Ant2_5745

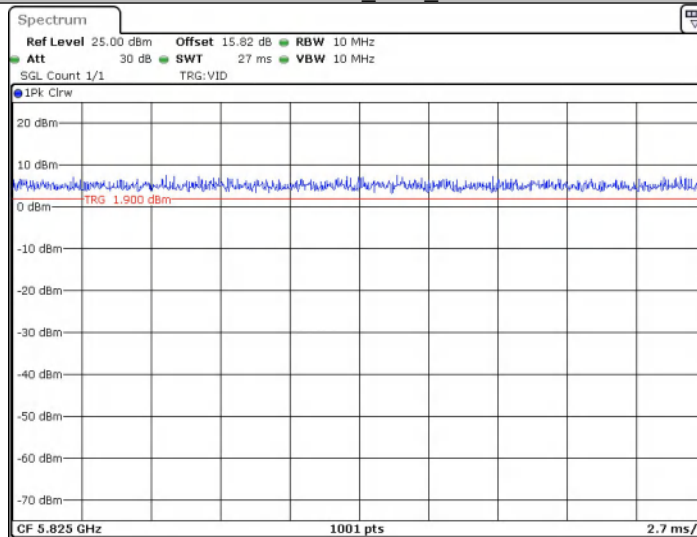


11N20MIMO_Ant2_5785



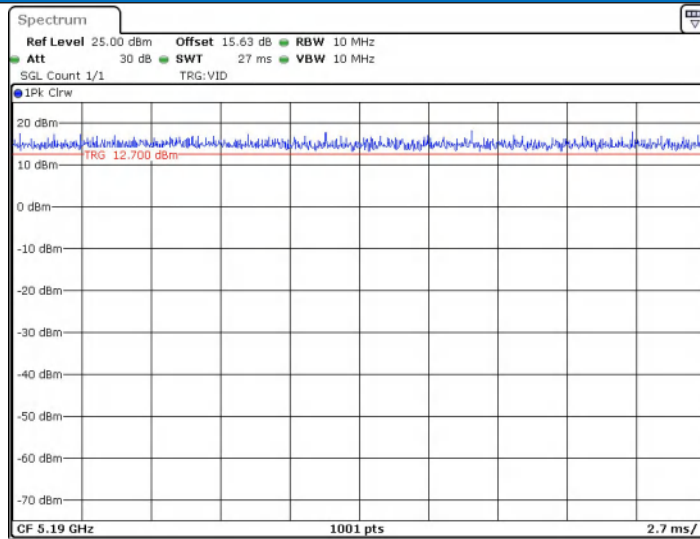
Date: 9 SEP. 2025 20:25:17

11N20MIMO_Ant2_5825



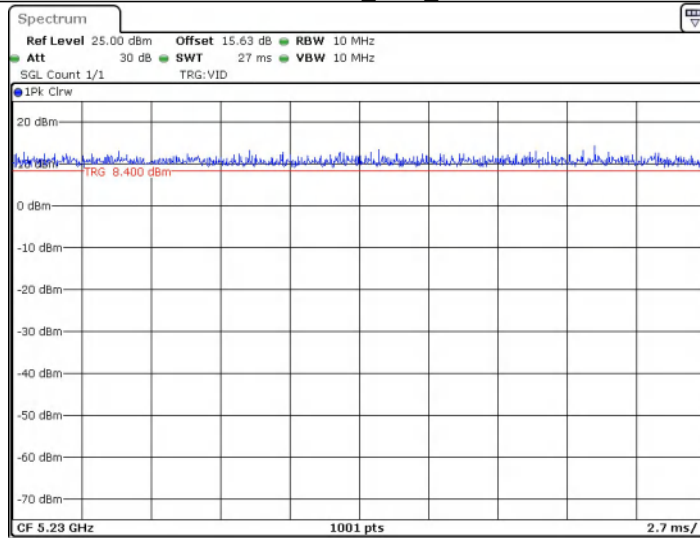
Date: 9 SEP. 2025 20:26:48

11N40MIMO_Ant2_5190



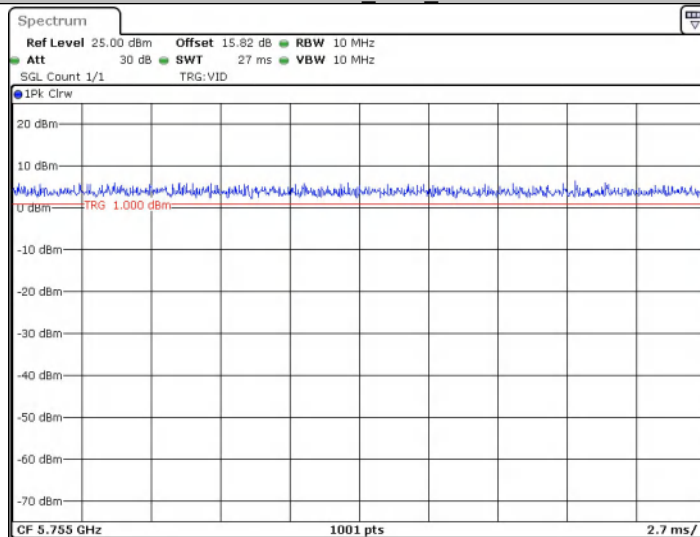
Date: 9 SEP 2025 20:29:13

11N40MIMO_Ant2_5230



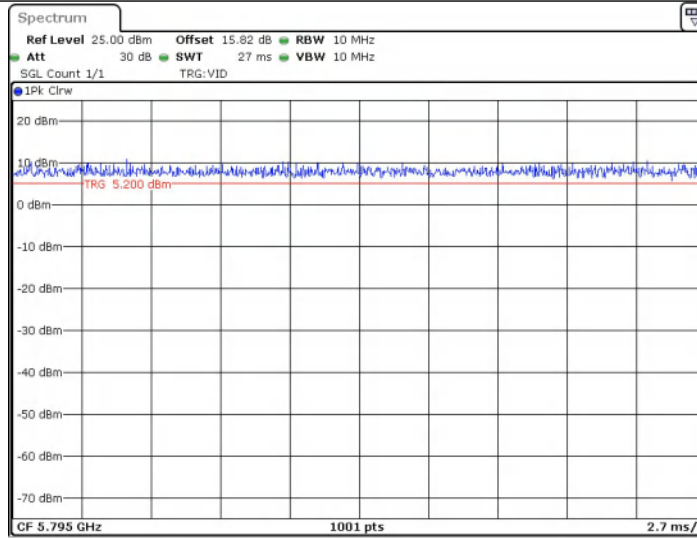
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11N40MIMO_Ant2_5755



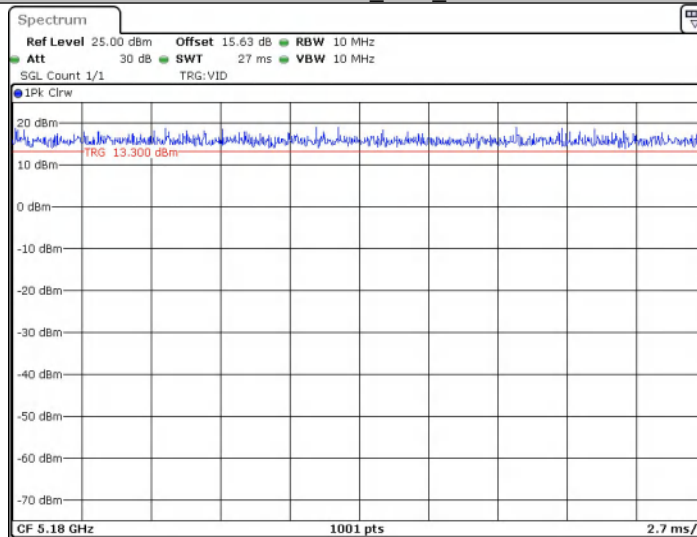
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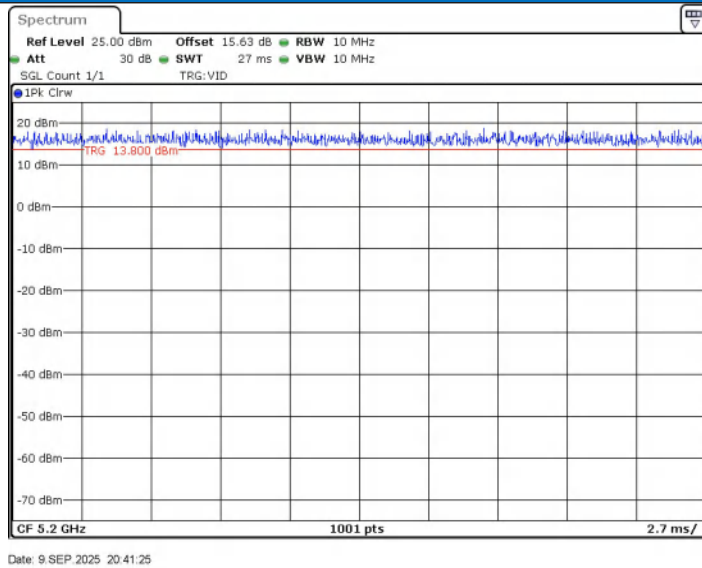
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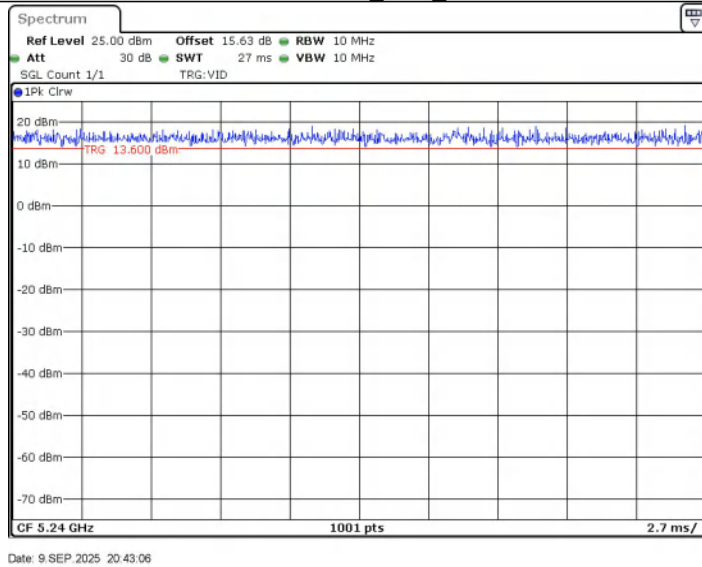


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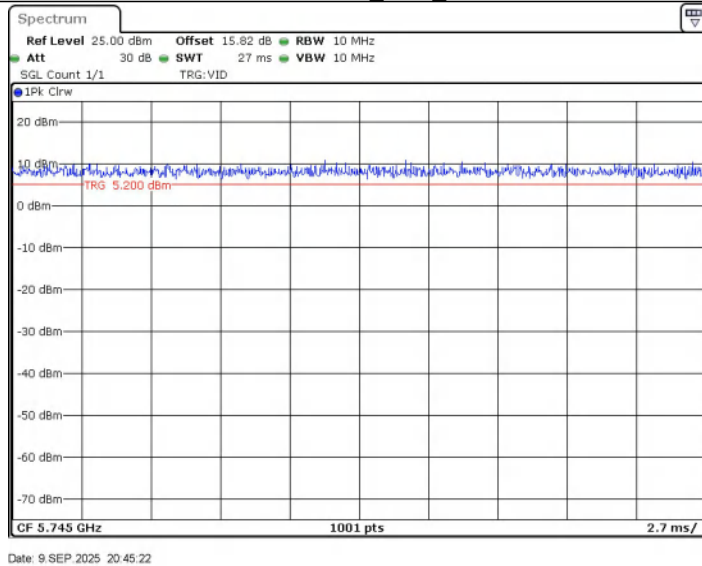
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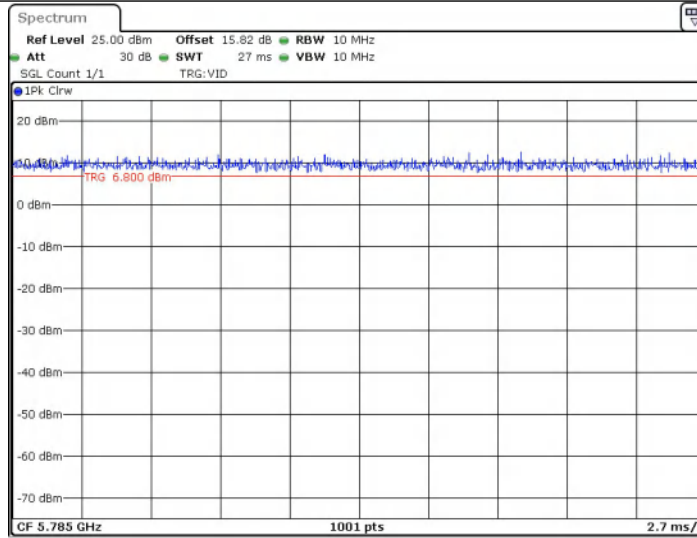
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11AC20MIMO_Ant2_5745

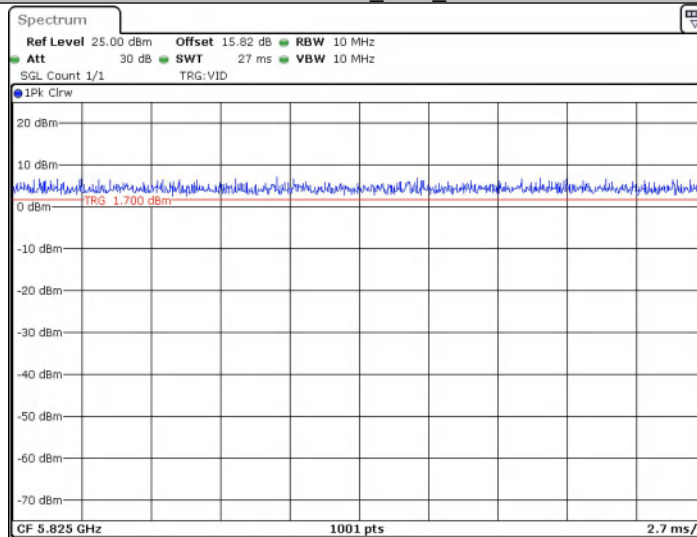


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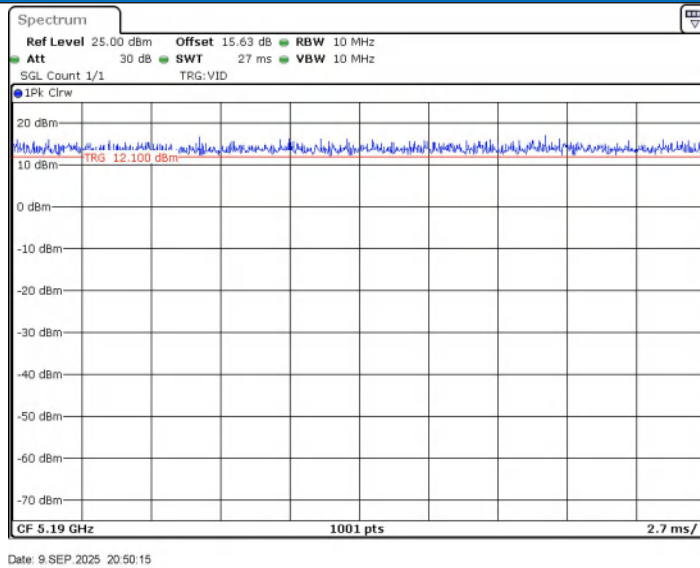
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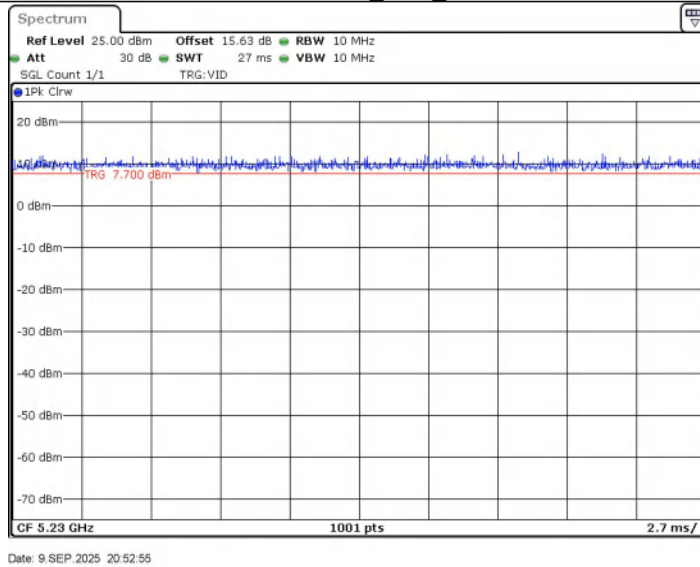


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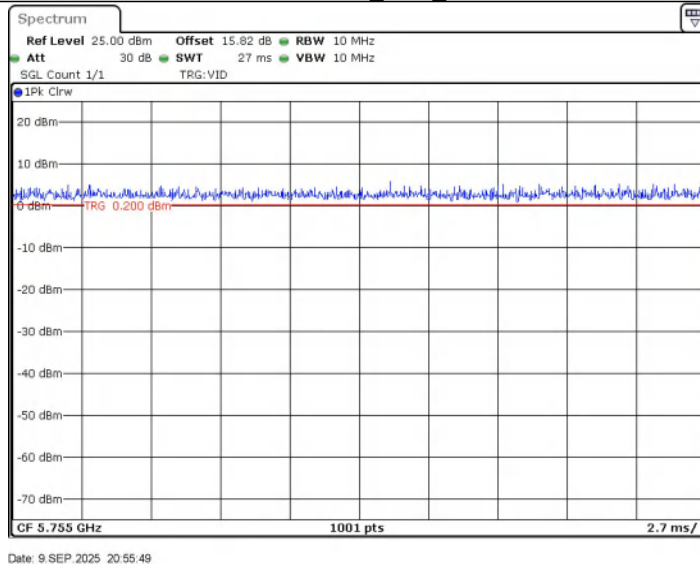
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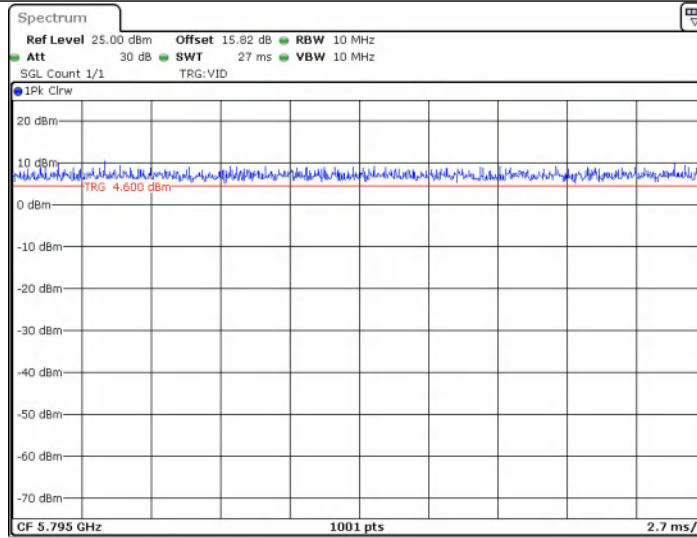
11AC40MIMO_Ant2_5230



11AC40MIMO_Ant2_5755

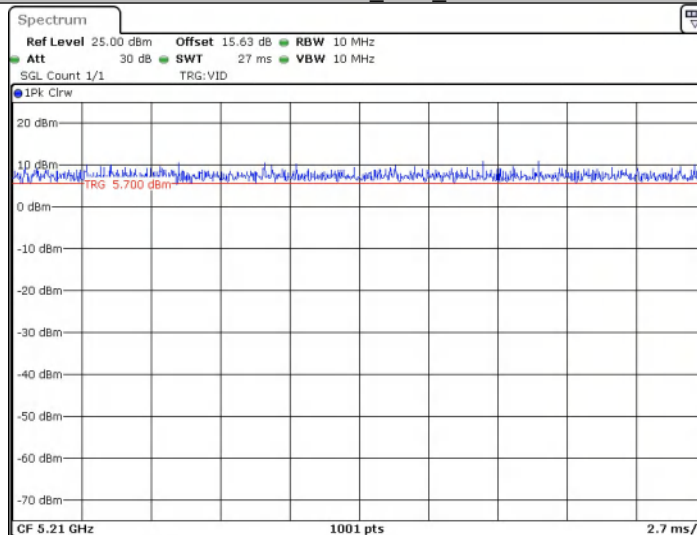


11AC40MIMO_Ant2_5795



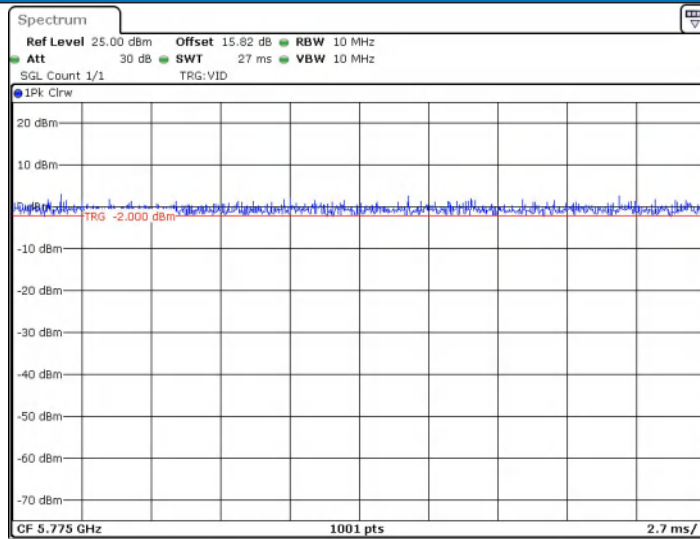
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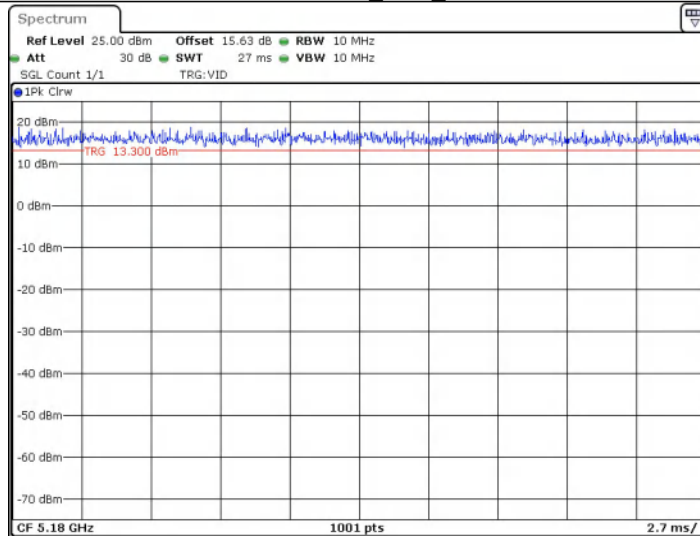
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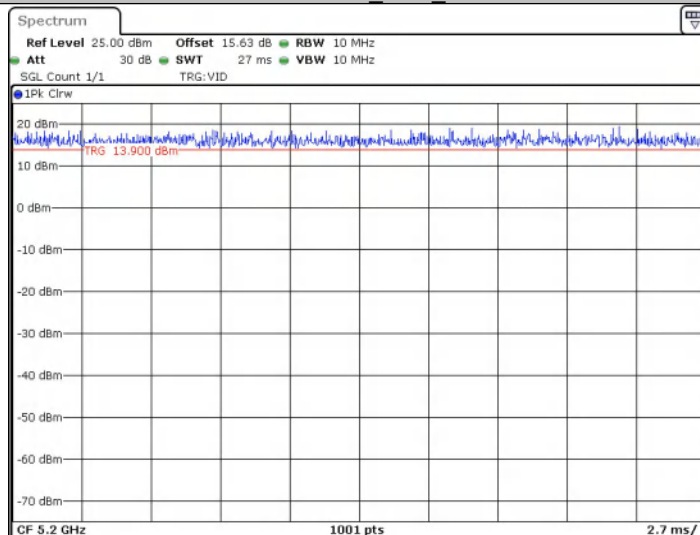
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11AX20MIMO_Ant2_5180



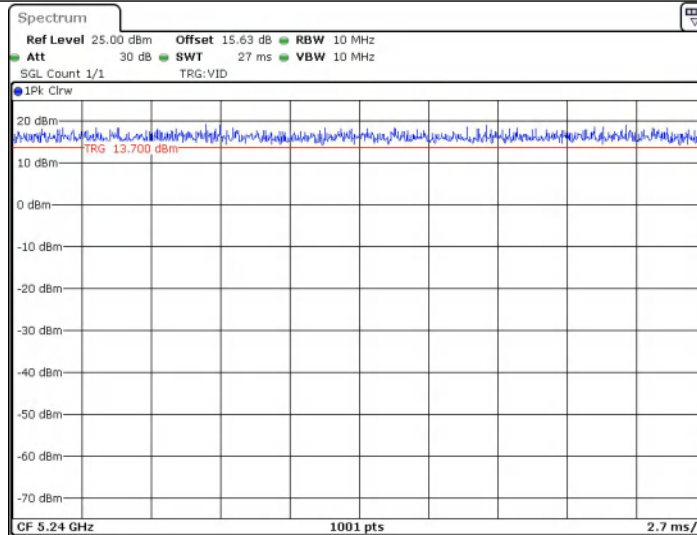
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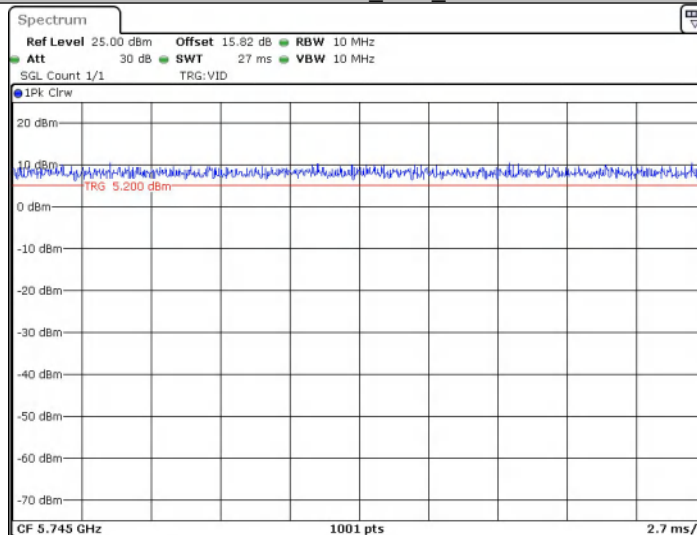
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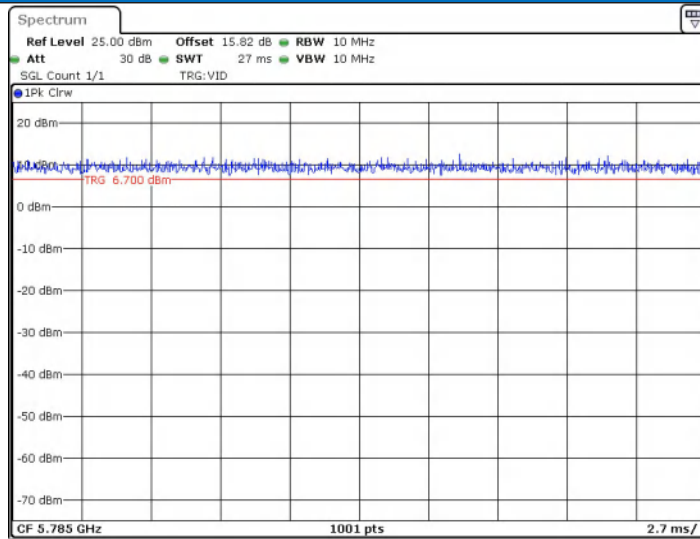
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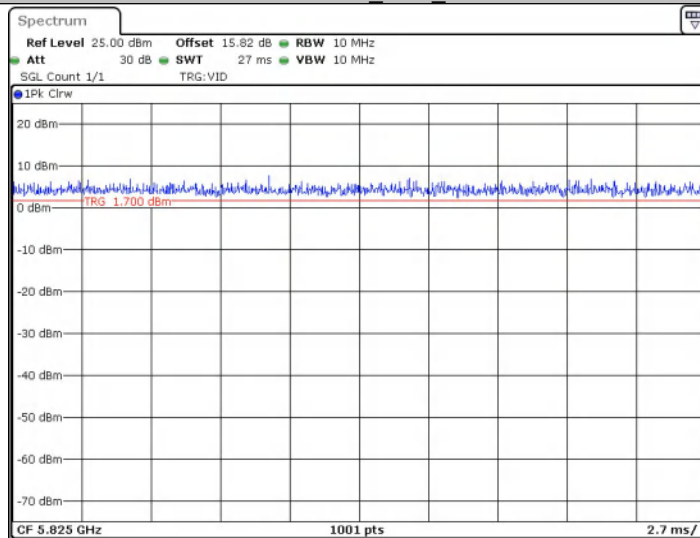
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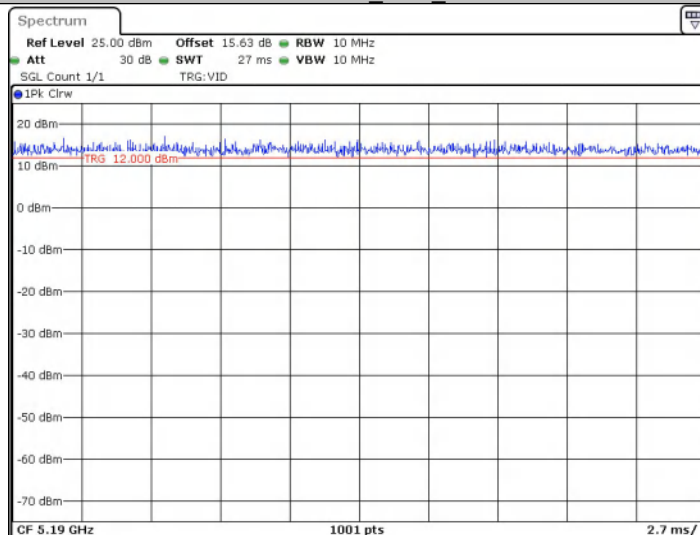
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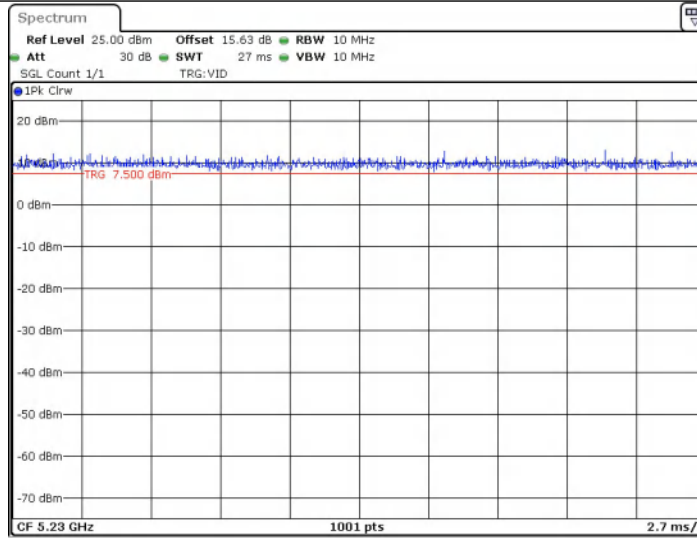
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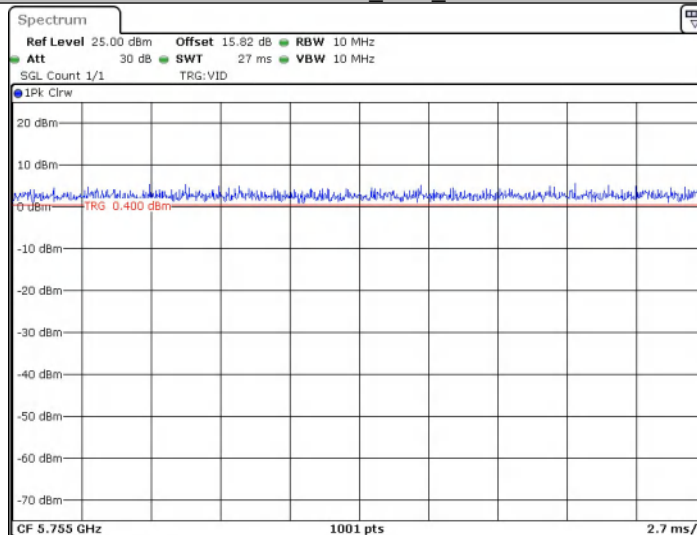
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11AX40MIMO_Ant2_5230



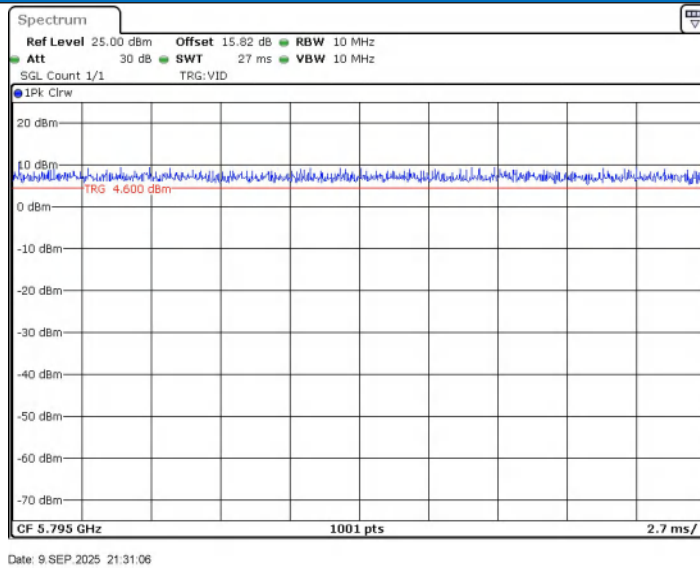
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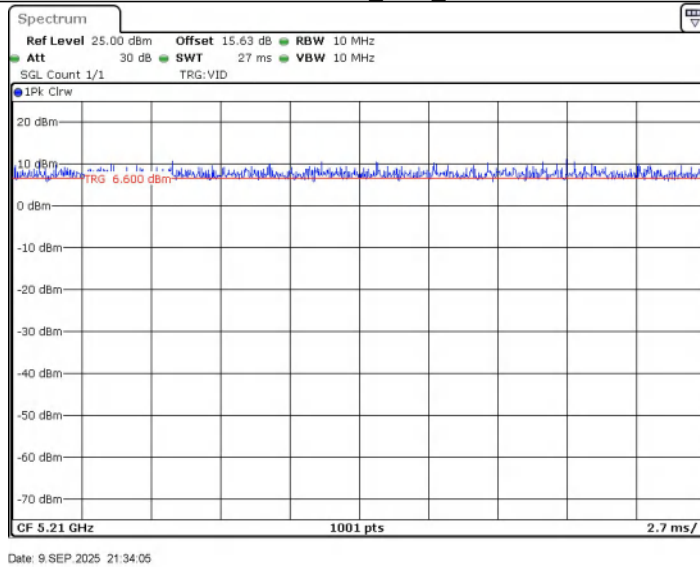


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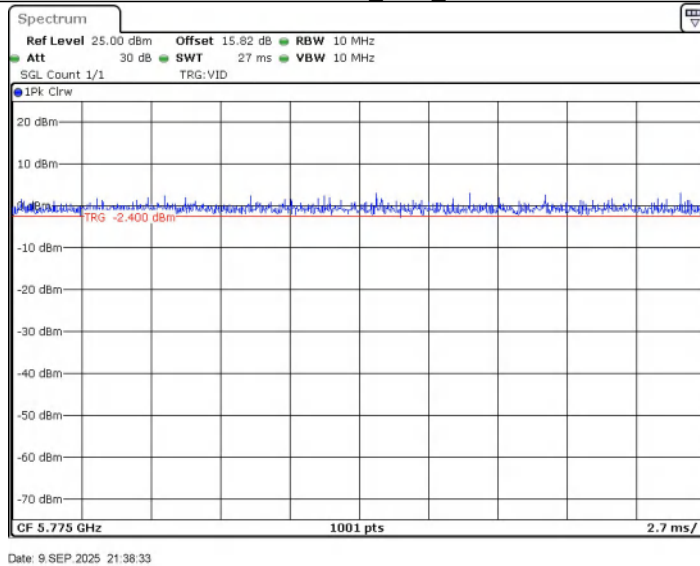
11AX40MIMO_Ant2_5795



11AX80MIMO_Ant2_5210



11AX80MIMO_Ant2_5775



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.