SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

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Report Template Version: V06
Report Template Revision Date: 2026-01-30

Test Report

Report No.:	CQASZ20260400831E-02
Applicant:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Applicant:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China
Equipment Under Test (EUT):	
Product:	WIRELESS VIDEO TRANSMISSION SYSTEM
Model No.:	Pyro S
Teat Model No.:	Pyro S
Brand Name:	HOLLYLAND
FCC ID:	2ADZC-9831T1
Standards:	47 CFR Part 15, Subpart E KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Date of Receipt:	2026-04-23
Date of Test:	2026-04-23 to 2026-06-01
Date of Issue:	2026-6-5
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)

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD
华夏准测
APPROVED

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

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260400831E-02	Rev.01	Initial report	2026-6-5

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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; KDB789033	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.207	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; KDB789033	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.407 (a)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; KDB789033	PASS
Emission Bandwidth	47 CFR Part 15 Subpart C Section 15.407 (a)(e)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; KDB789033	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; KDB789033	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.209 &15.407(b)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; KDB789033	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; 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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024; 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

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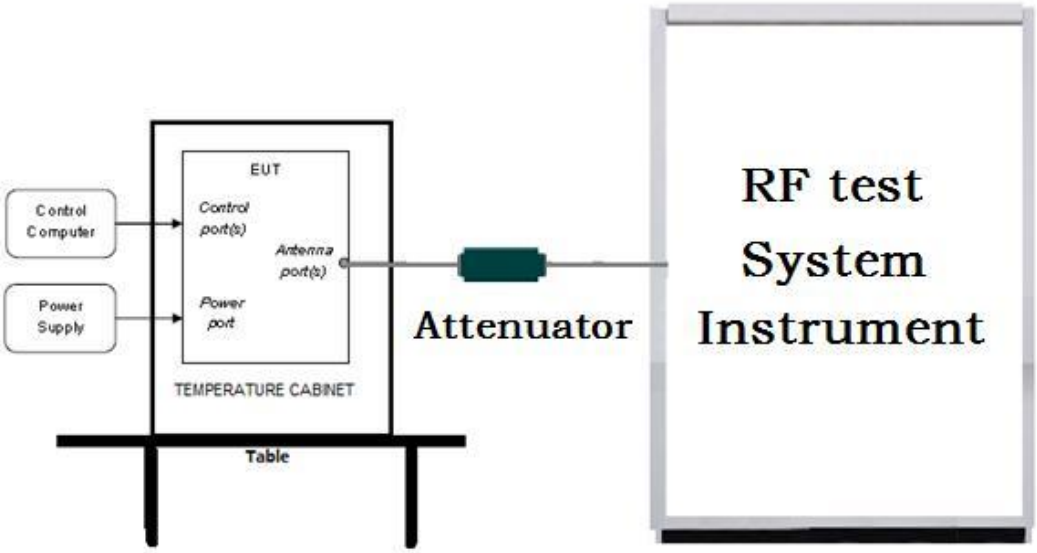
4 Test Requirement

4.1 Test setup

4.1.1 For Conducted test setup



4.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

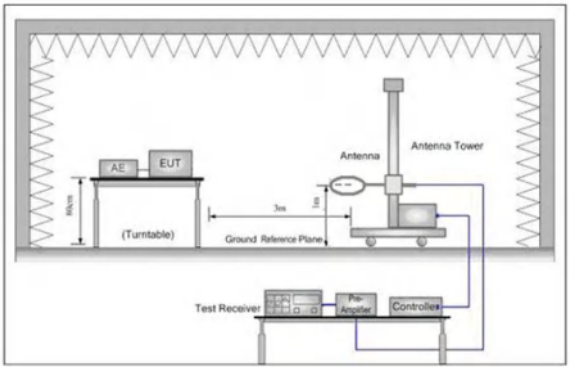


Figure 1. Below 30MHz

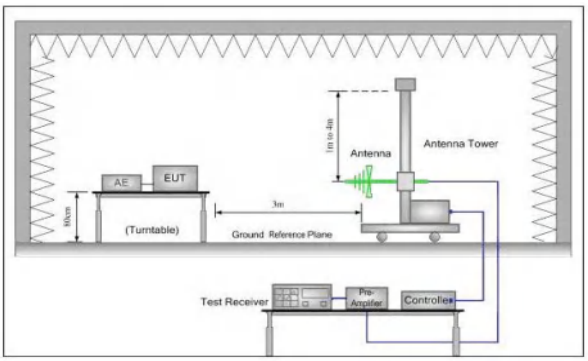


Figure 2. 30MHz to 1GHz

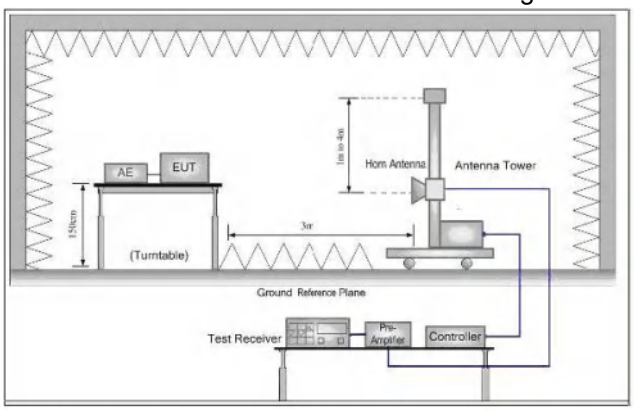
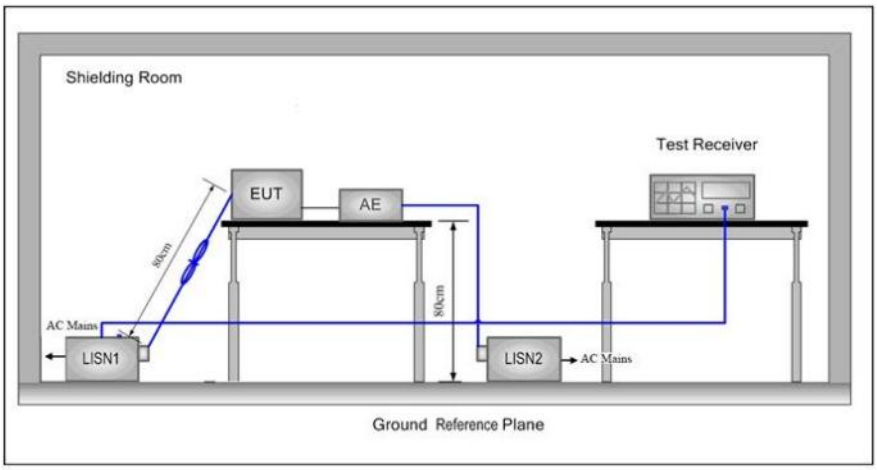


Figure 3. Above 1GHz

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	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 10.8V to 13.2V, so here the EUT is tested in the temperature of -30 °C to 50 °C and the voltage of 10.8V to 13.2V

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
802.11a/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

Run Software:

```
/opt/firmware/wificonf #
/opt/firmware/wificonf #
/opt/firmware/wificonf # /opt/config/mp_tx.sh wlan1 165 0 160 ab 60 65
cp: can't stat '/opt/config/rtwpriv': No such file or directory
wlan1    mp_ctx:Error: can't tx ,not in MP mode.

wlan1    mp_start:mp_start ok

wlan1    mp_channel:Change channel 1 to channel 165
wlan1    mp_bandwidth:Change BW 0 to BW 0

wlan1    mp_ant_tx:switch Tx antenna to ab
wlan1    mp_rate:Set data rate to 160 index 44
antenna is ab
wlan1    mp_txpower:patha=60,pathb=65
wlan1    mp_ctx:
Start continuous DA=ffffffffffff len=1500 count=0

/opt/firmware/wificonf #
```

Test mode:

Pre-scan under all rate at lowest channel for Ant1 and Ant2

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).

5 General Information

5.1 Client Information

Applicant:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Applicant:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China
Manufacturer:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Manufacturer:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China
Factory:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Factory:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China

5.2 General Description of EUT

Product Name:	WIRELESS VIDEO TRANSMISSION SYSTEM
Model No.:	Pyro S
Test Model No.:	Pyro S
Trade Mark:	HOLLYLAND
Software Version:	V78
Hardware Version:	S2.0.0.4
EUT Power Supply:	Power supply DC12V form adapter
	Adapter: Model:GQ24-120200-AX Input:100-240V~50/60Hz 1.0A Max Output:12.0V⎓2.0A 24.0W
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(20M): 5150MHz ~5250 MHz IEEE802.11n/ac(40M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz IEEE802.11n/ac(40M): 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 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel
Type of Modulation:	IEEE for 802.11a/n/ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)
Sample Type:	☒ Mobile ☐ Portable
Test Software of EUT:	cmd
Antenna Type:	SMAJ antenna
Antenna gain:	ANT1:2.75dBi ANT2:2.75dBi ANT1+ANT2:5.76dBi
Cable loss:	1.0 dB

Operation Frequency each of channel

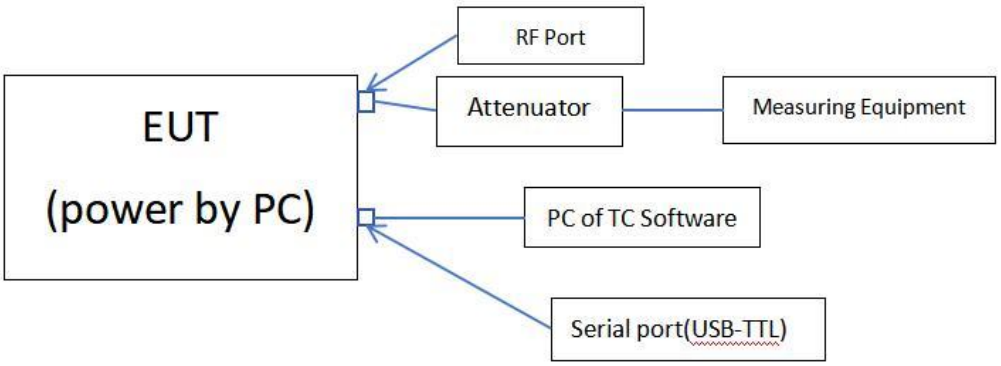
(U-NII-1) 5180MHz-5240MHz				
Bandwidth	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
20MHz	**36**	**5180**	**40**	**5200**
	44	**5220**	**48**	**5240**
40MHz	**38**	**5190**	**46**	**5230**
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
20MHz	**149**	**5745**	**153**	**5765**
	157	**5785**	**161**	**5805**
	165	**5825**	**/**	**/**
40MHz	**151**	**5755**	**159**	**5795**

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

102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong, People's Republic of China, 518000

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	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU26	CQA-038	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU40	CQA-075	2025/9/1	2026/8/31
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2025/9/1	2026/8/31
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2025/9/1	2026/8/31
Preamplifier	EMCI	EMC184055SE	CQA-089	2025/9/1	2026/8/31
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	2025/9/1	2026/8/31
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2025/9/1	2026/8/31
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2025/9/1	2026/8/31
Antenna Connector	CQA	RFC-01	CQA-080	2025/9/1	2026/8/31
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2025/9/1	2026/8/31
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2025/9/1	2026/8/31
Power meter	R&S	NRVD	CQA-029	2025/9/1	2026/8/31
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2025/9/1	2026/8/31
EMI Test Receiver	R&S	ESR7	CQA-005	2025/9/1	2026/8/31
LISN	R&S	ENV216	CQA-003	2025/9/1	2026/8/31
Coaxial cable	CQA	N/A	CQA-C009	2025/9/1	2026/8/31
DC power	KEYSIGHT	E3631A	CQA-028	2025/9/1	2026/8/31

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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	American National Standard for Testing Unlicesed 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:

a) Set RBW = approximately 1% of the emission bandwidth.

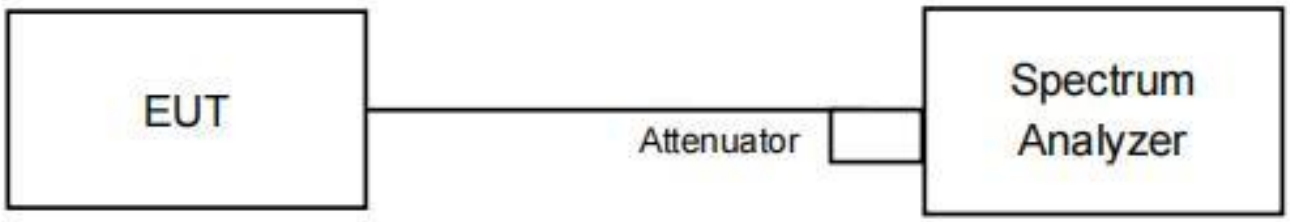
b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) 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



Ant1

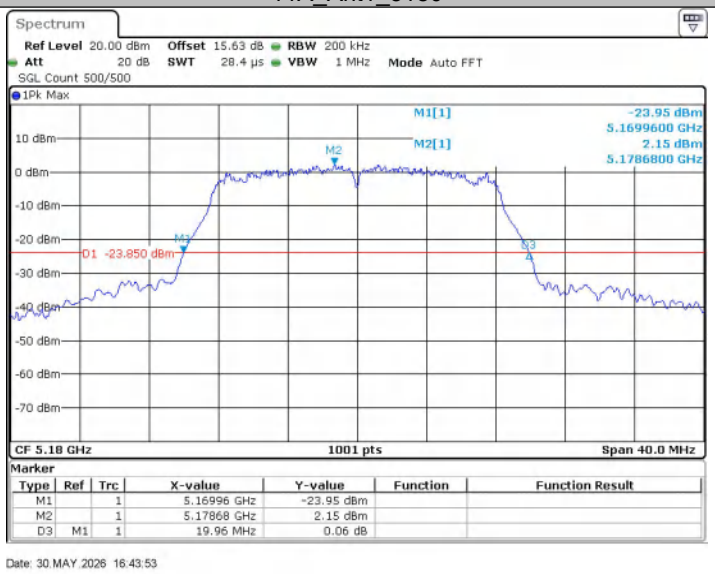
Result Table

TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	5180	19.96	5169.96	5189.92
	5200	19.80	5189.92	5209.72
	5240	19.76	5230.12	5249.88
	5745	19.68	5735.08	5754.76
	5785	19.88	5774.96	5794.84
	5825	19.80	5815.04	5834.84
11N20SISO	5180	20.08	5169.88	5189.96
	5200	19.96	5189.96	5209.92
	5240	20.20	5229.88	5250.08
	5745	20.24	5734.88	5755.12
	5785	20.16	5774.84	5795.00
	5825	20.04	5814.84	5834.88
11N40SISO	5190	40.32	5169.68	5210.00
	5230	41.04	5209.68	5250.72
	5755	40.56	5734.68	5775.24
	5795	40.48	5774.68	5815.16
11AC20SISO	5180	20.00	5169.88	5189.88
	5200	20.16	5189.92	5210.08
	5240	20.04	5230.00	5250.04
	5745	20.40	5734.88	5755.28
	5785	19.88	5775.00	5794.88
	5825	20.00	5814.88	5834.88
11AC40SISO	5190	40.72	5169.68	5210.40
	5230	40.72	5209.52	5250.24
	5755	40.40	5734.60	5775.00
	5795	40.16	5774.68	5814.84

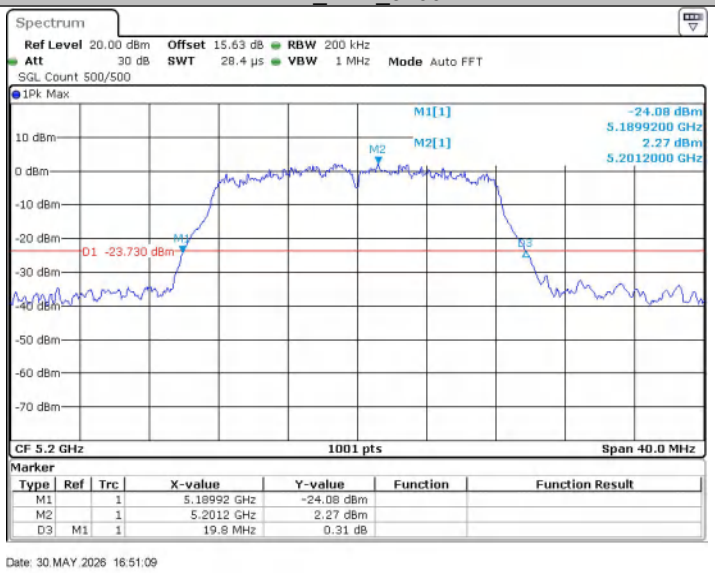
TestMode	Freq(MHz)	6db EBW [MHz]	Limit[MHz]	Verdict
11A	5745	15.12	0.5	PASS
	5785	16.32	0.5	PASS
	5825	15.72	0.5	PASS
11N20SISO	5745	15.12	0.5	PASS
	5785	15.12	0.5	PASS
	5825	15.12	0.5	PASS
11N40SISO	5755	35.04	0.5	PASS
	5795	35.12	0.5	PASS
11AC20SISO	5745	15.12	0.5	PASS
	5785	15.08	0.5	PASS
	5825	15.12	0.5	PASS
11AC40SISO	5755	35.04	0.5	PASS
	5795	30.08	0.5	PASS

Test Graph

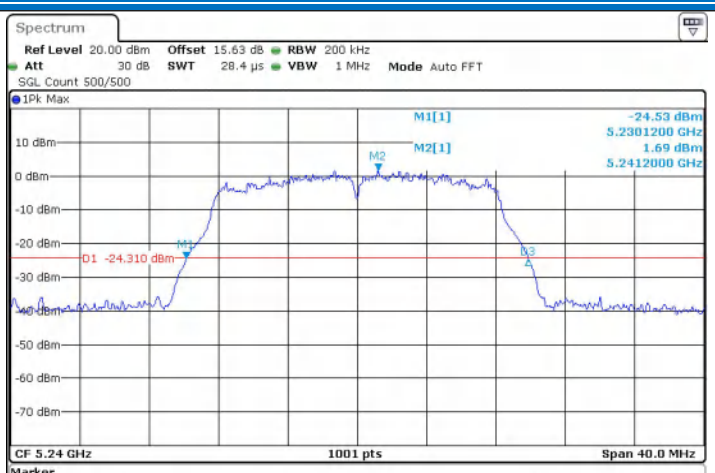
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240

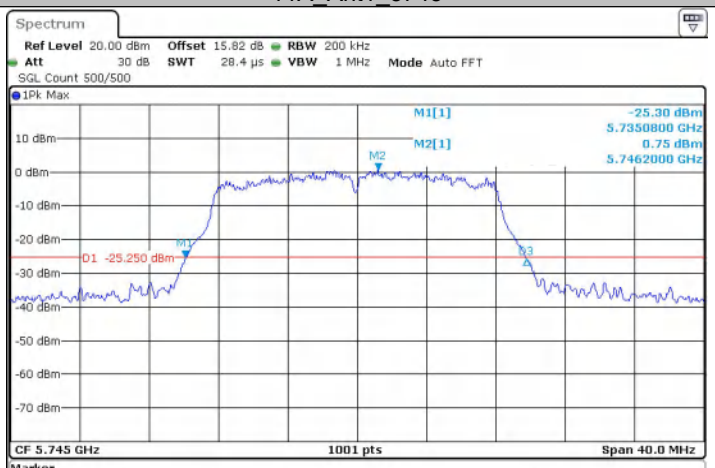


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.23012 GHz	-24.53 dBm		
M2		1	5.2412 GHz	1.69 dBm		
D3	M1	1	19.76 MHz	-0.14 dB		

Date: 30.MAY.2026 16:52:31

11A_Ant1_5745

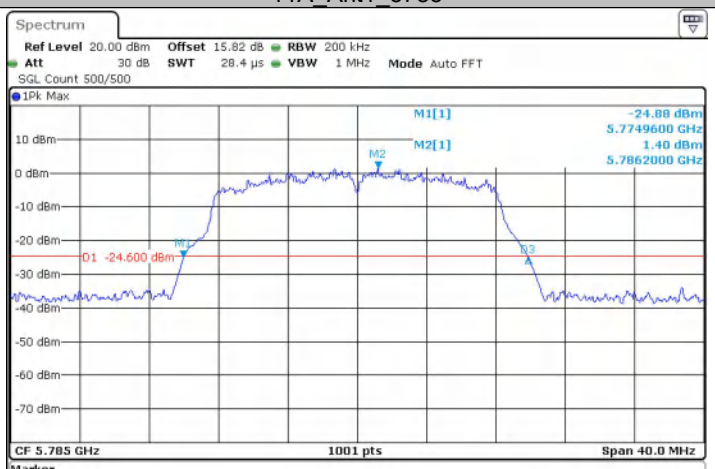


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73508 GHz	-25.30 dBm		
M2		1	5.7462 GHz	0.75 dBm		
D3	M1	1	19.68 MHz	-0.40 dB		

Date: 30.MAY.2026 16:57:10

11A_Ant1_5785

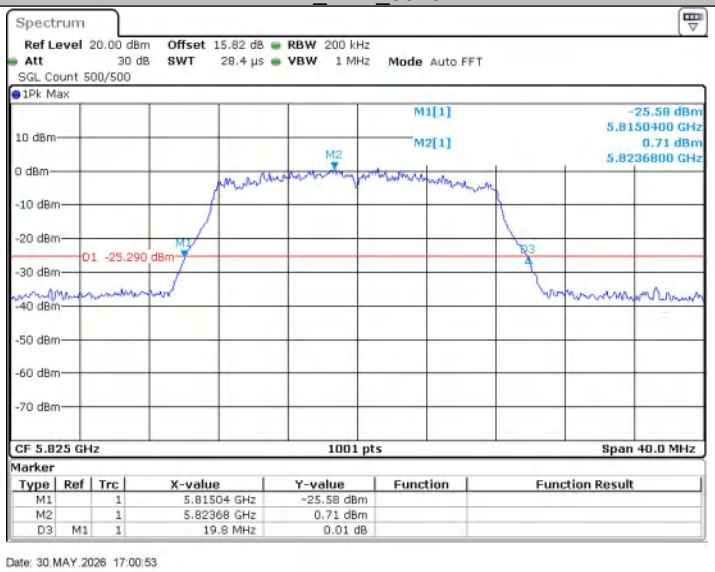


Marker

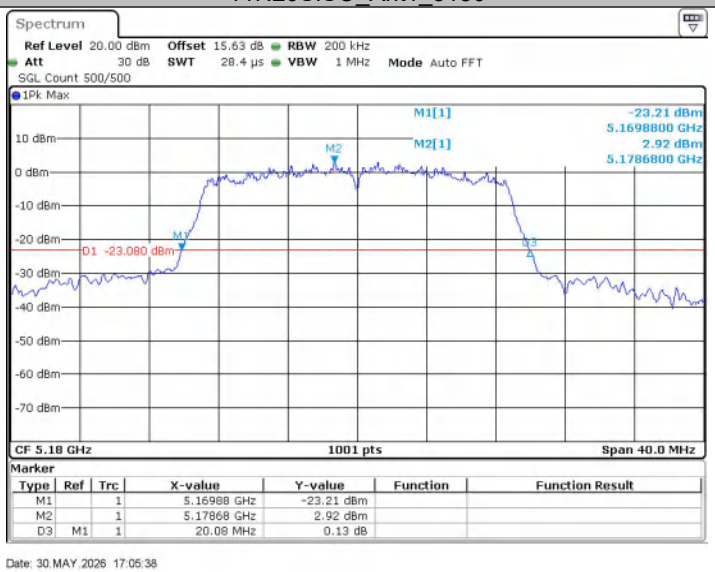
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.77496 GHz	-24.88 dBm		
M2		1	5.7862 GHz	1.40 dBm		
D3	M1	1	19.88 MHz	-0.13 dB		

Date: 30.MAY.2026 16:59:07

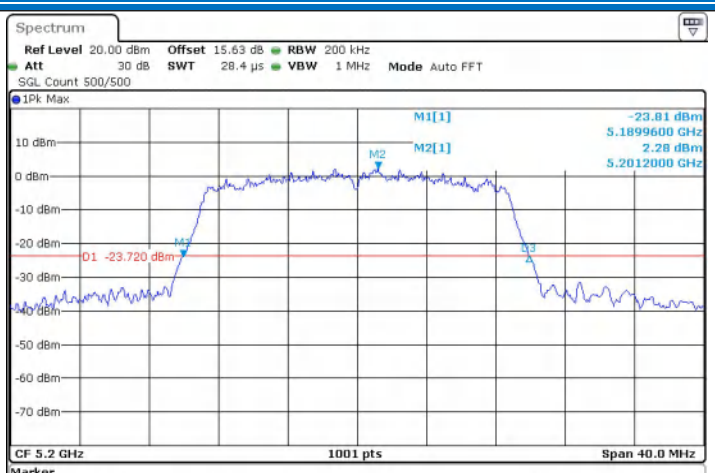
11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

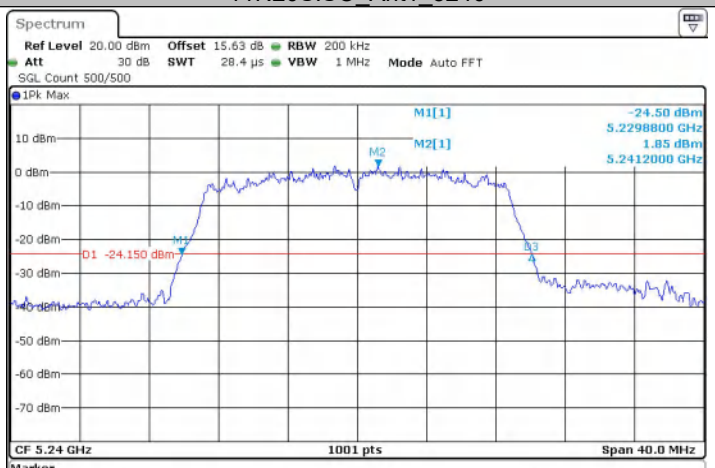


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.18996 GHz	-23.81 dBm		
M2		1	5.2012 GHz	2.28 dBm		
D3	M1	1	19.96 MHz	0.05 dB		

Date: 30.MAY.2026 17:11:26

11N20SISO_Ant1_5240

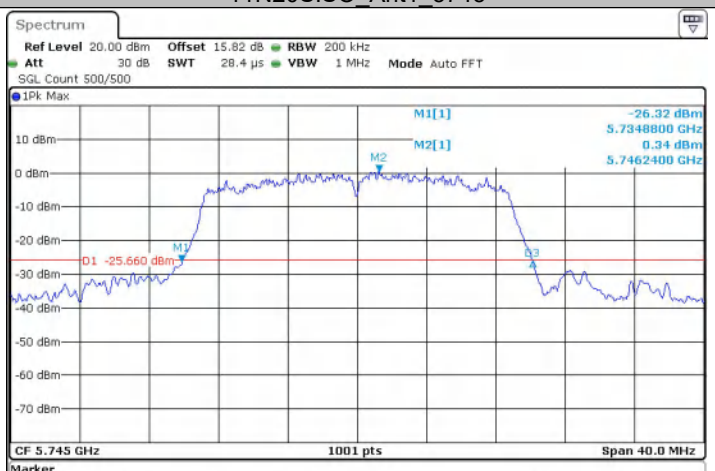


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.22988 GHz	-24.50 dBm		
M2		1	5.2412 GHz	1.85 dBm		
D3	M1	1	20.2 MHz	0.06 dB		

Date: 30.MAY.2026 17:13:50

11N20SISO_Ant1_5745

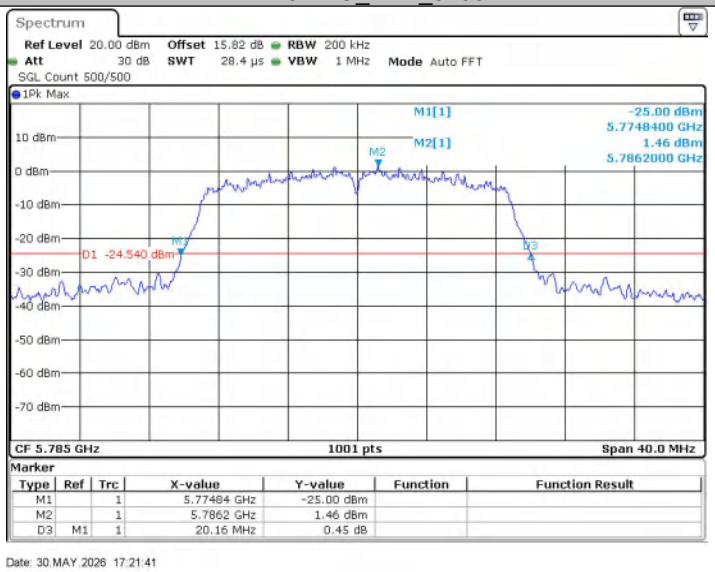


Marker

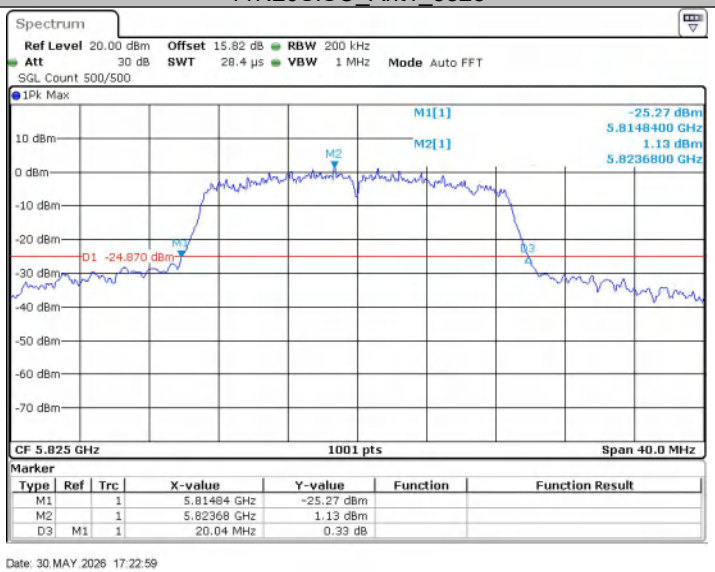
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73488 GHz	-26.32 dBm		
M2		1	5.74624 GHz	0.34 dBm		
D3	M1	1	20.24 MHz	0.22 dB		

Date: 30.MAY.2026 17:17:43

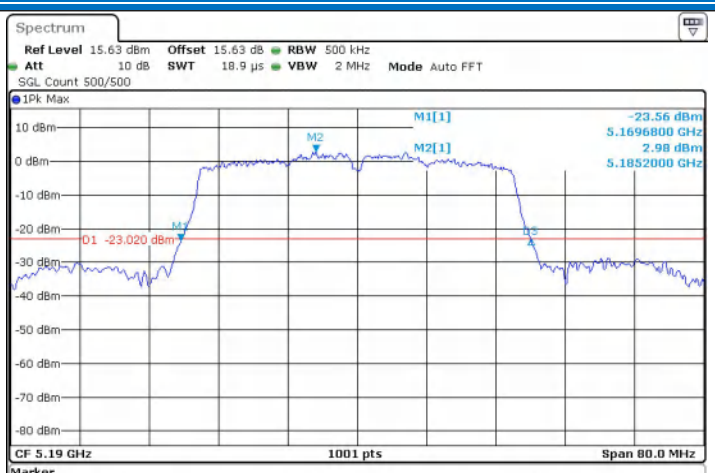
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

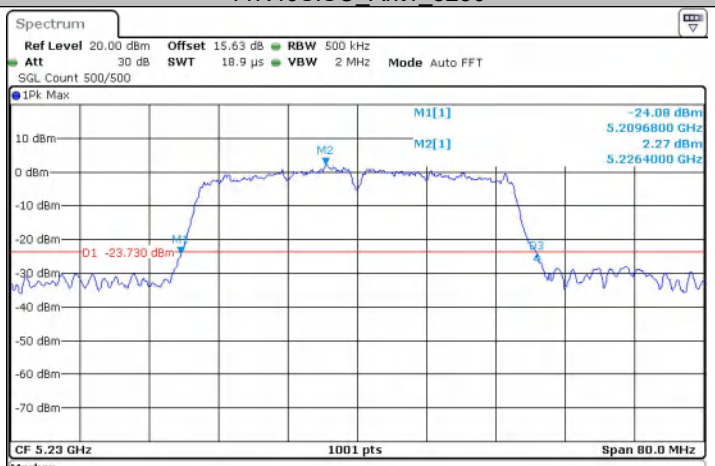


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.16968 GHz	-23.56 dBm		
M2		1	5.1852 GHz	2.98 dBm		
D3	M1	1	40.32 MHz	0.45 dB		

Date: 30.MAY.2026 17:28:12

11N40SISO_Ant1_5230

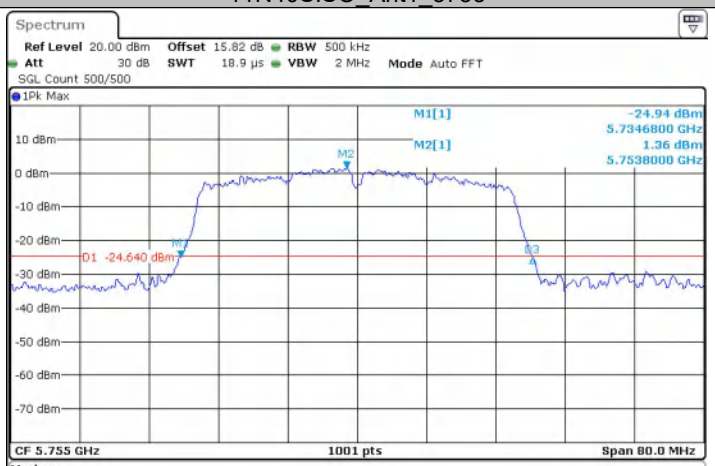


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.20968 GHz	-24.08 dBm		
M2		1	5.2264 GHz	2.27 dBm		
D3	M1	1	41.04 MHz	-0.21 dB		

Date: 30.MAY.2026 17:33:03

11N40SISO_Ant1_5755

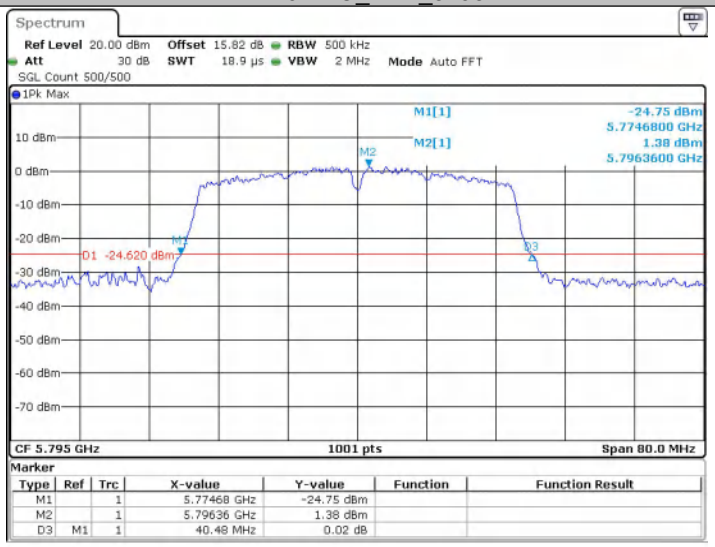


Marker

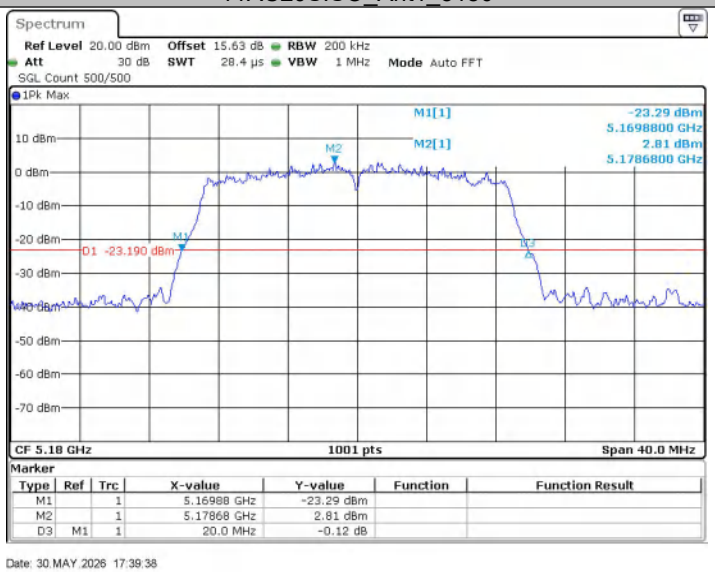
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73468 GHz	-24.94 dBm		
M2		1	5.7538 GHz	1.36 dBm		
D3	M1	1	40.56 MHz	0.05 dB		

Date: 30.MAY.2026 17:35:16

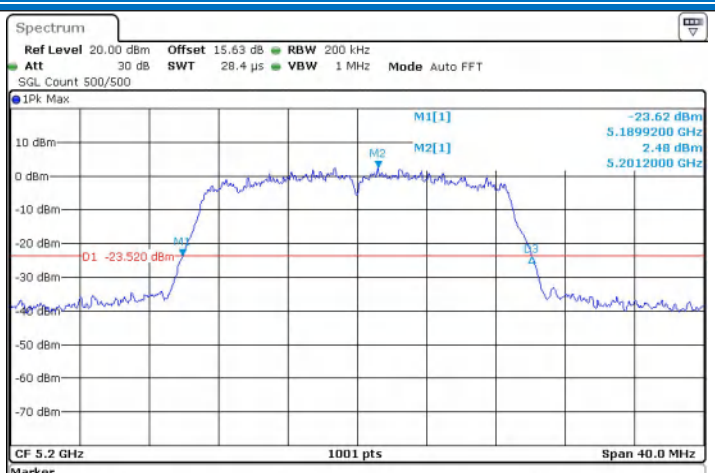
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

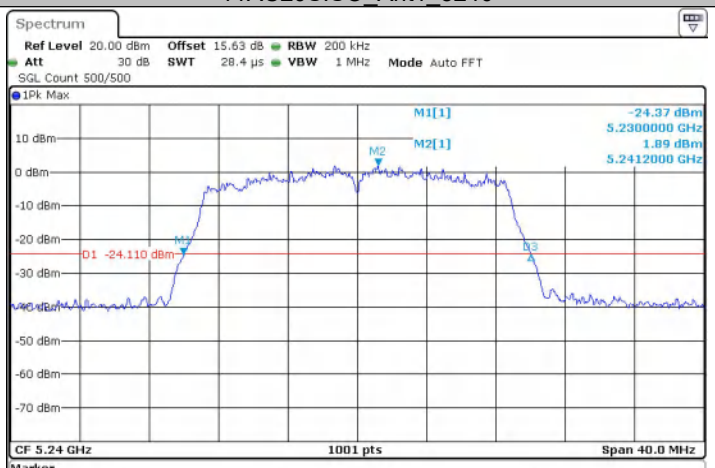


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.18992 GHz	-23.62 dBm		
M2		1	5.2012 GHz	2.48 dBm		
D3	M1	1	20.16 MHz	-0.30 dB		

Date: 30.MAY.2026 17:41:32

11AC20SISO_Ant1_5240

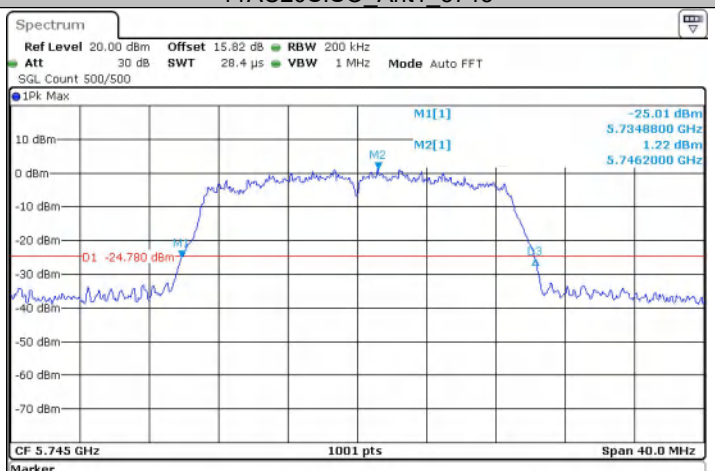


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.23 GHz	-24.37 dBm		
M2		1	5.2412 GHz	1.89 dBm		
D3	M1	1	20.04 MHz	-0.05 dB		

Date: 30.MAY.2026 17:43:25

11AC20SISO_Ant1_5745

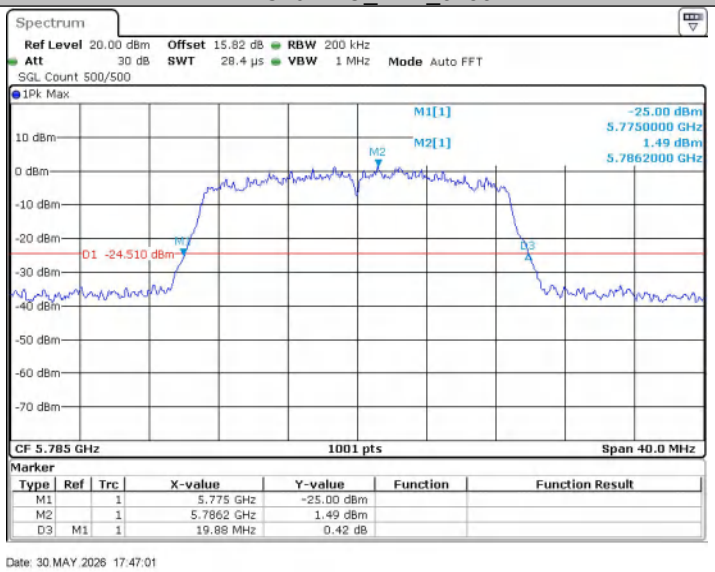


Marker

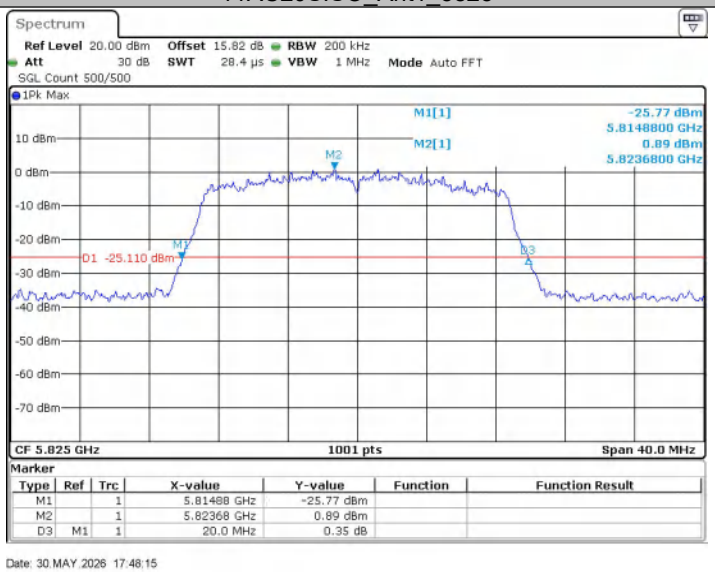
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73488 GHz	-25.01 dBm		
M2		1	5.7462 GHz	1.22 dBm		
D3	M1	1	20.4 MHz	-0.36 dB		

Date: 30.MAY.2026 17:45:19

11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



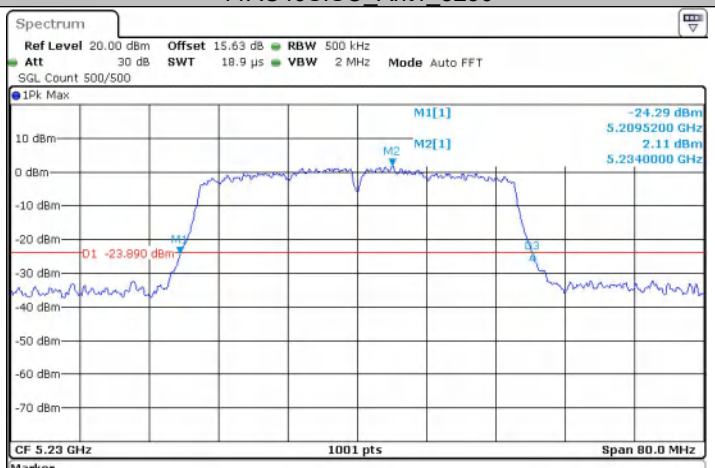
11AC40SISO_Ant1_5190

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.16968 GHz	-22.95 dBm		
M2		1	5.19408 GHz	3.05 dBm		
D3	M1	1	40.72 MHz	-0.27 dB		

Date: 30.MAY.2026 17:50:51

11AC40SISO_Ant1_5230

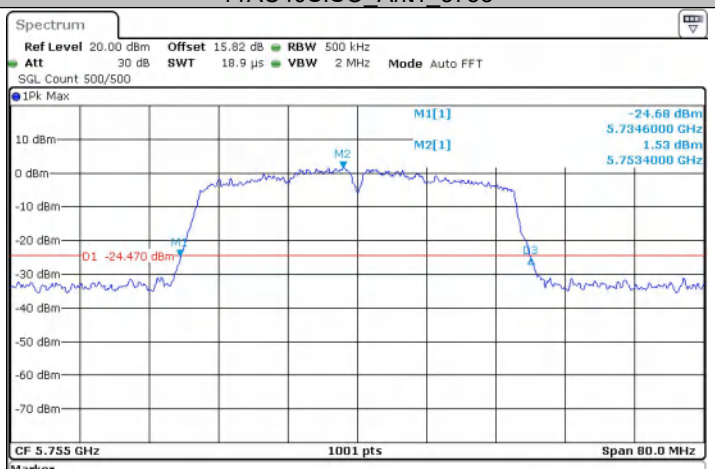


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.20952 GHz	-24.29 dBm		
M2		1	5.234 GHz	2.11 dBm		
D3	M1	1	40.72 MHz	0.20 dB		

Date: 30.MAY.2026 17:54:01

11AC40SISO_Ant1_5755

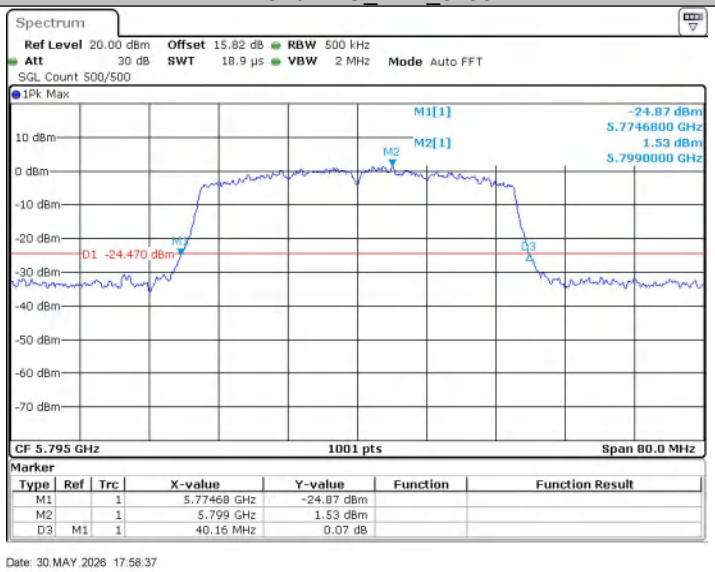


Marker

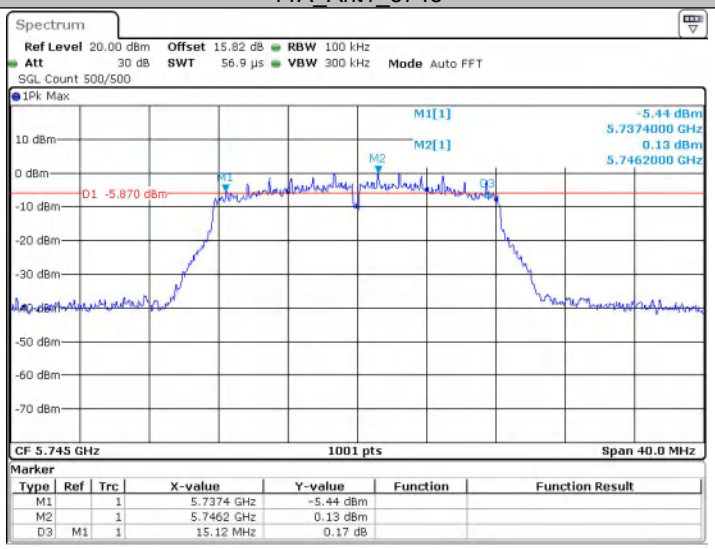
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7346 GHz	-24.68 dBm		
M2		1	5.7534 GHz	1.53 dBm		
D3	M1	1	40.4 MHz	-0.48 dB		

Date: 30.MAY.2026 17:56:28

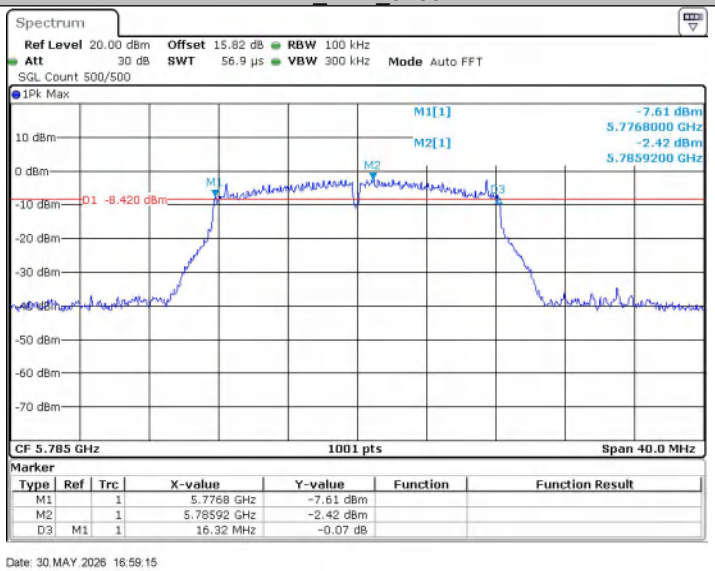
11AC40SISO_Ant1_5795



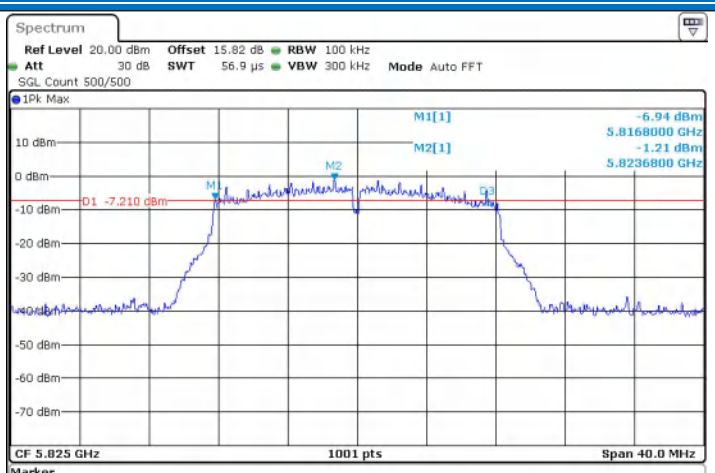
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

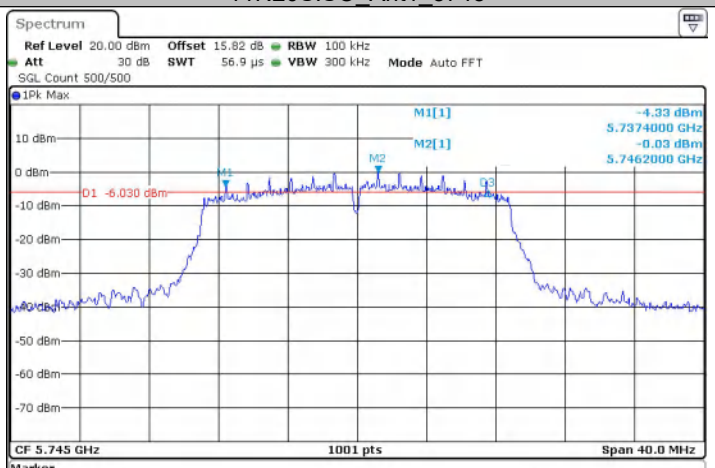


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.8168 GHz	-6.94 dBm		
M2		1	5.82368 GHz	-1.21 dBm		
D3	M1	1	15.72 MHz	0.17 dB		

Date: 30.MAY.2026 17:01:01

11N20SISO_Ant1_5745

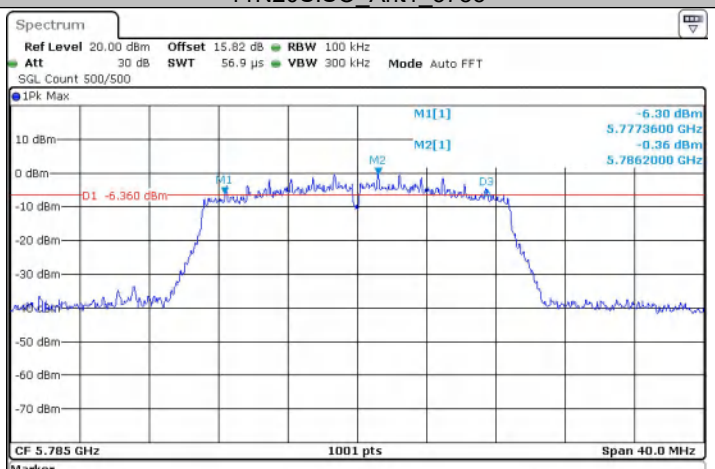


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7374 GHz	-4.33 dBm		
M2		1	5.7462 GHz	-0.03 dBm		
D3	M1	1	15.12 MHz	-1.08 dB		

Date: 30.MAY.2026 17:17:51

11N20SISO_Ant1_5785

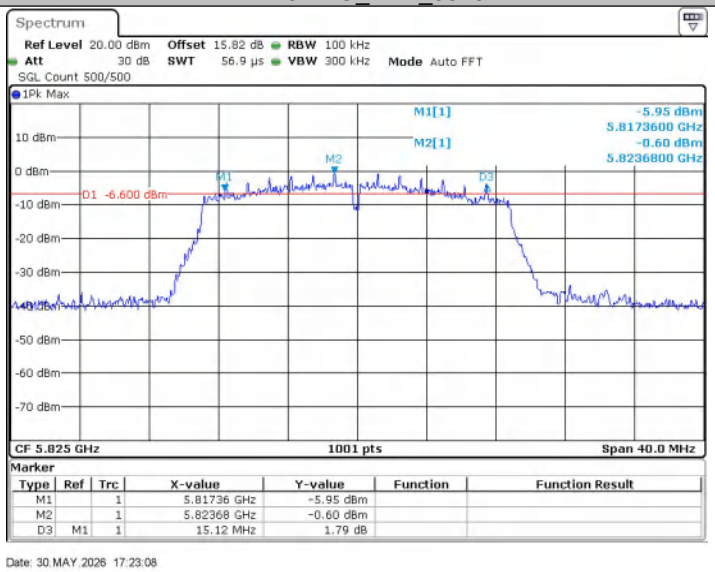


Marker

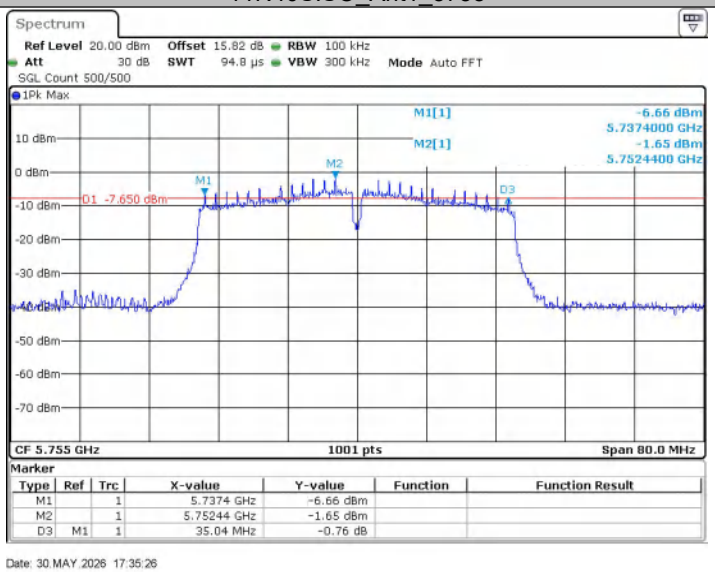
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.77736 GHz	-6.30 dBm		
M2		1	5.7862 GHz	-0.36 dBm		
D3	M1	1	15.12 MHz	1.39 dB		

Date: 30.MAY.2026 17:21:49

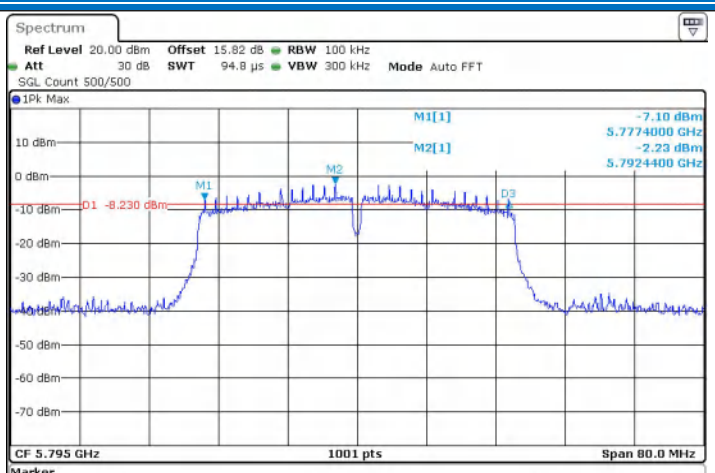
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7774 GHz	-7.10 dBm		
M2		1	5.79244 GHz	-2.23 dBm		
D3	M1	1	35.12 MHz	-0.47 dB		

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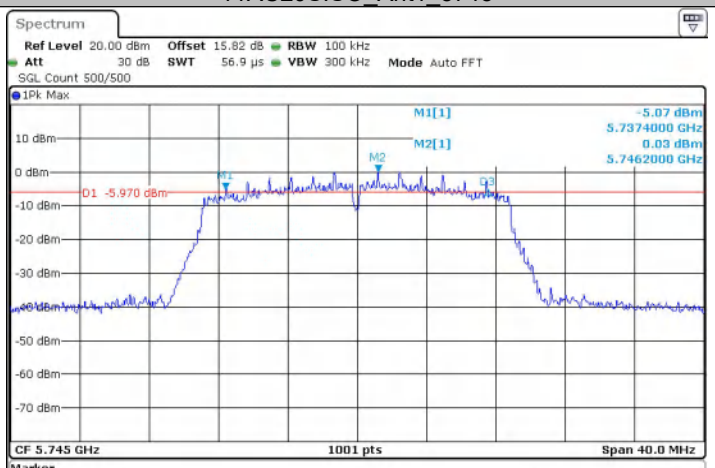
11AC20SISO_Ant1_5745

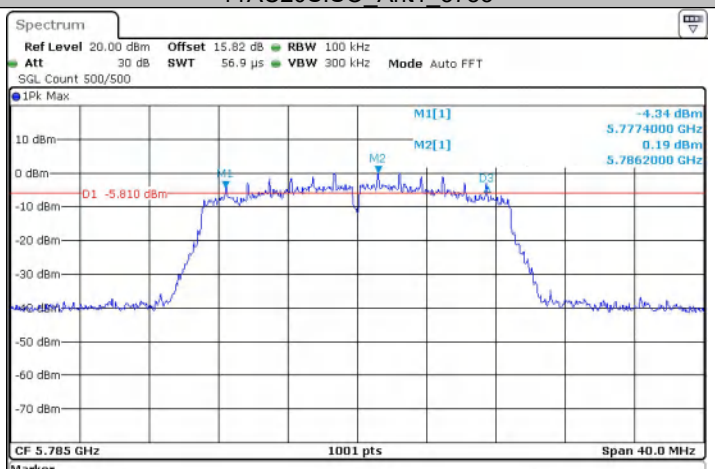


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7374 GHz	-5.07 dBm		
M2		1	5.7462 GHz	0.03 dBm		
D3	M1	1	15.12 MHz	-0.14 dB		

Date: 30.MAY.2026 17:45:27

11AC20SISO_Ant1_5785

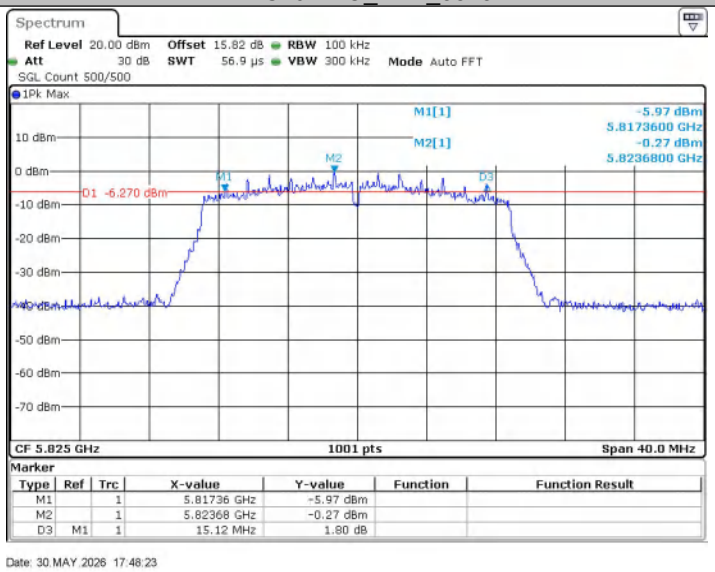


Marker

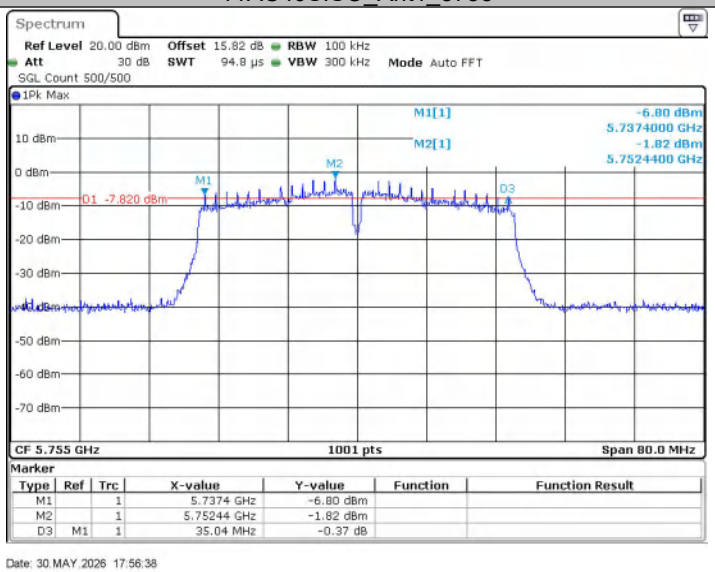
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7774 GHz	-4.34 dBm		
M2		1	5.7862 GHz	0.19 dBm		
D3	M1	1	15.08 MHz	0.59 dB		

Date: 30.MAY.2026 17:47:09

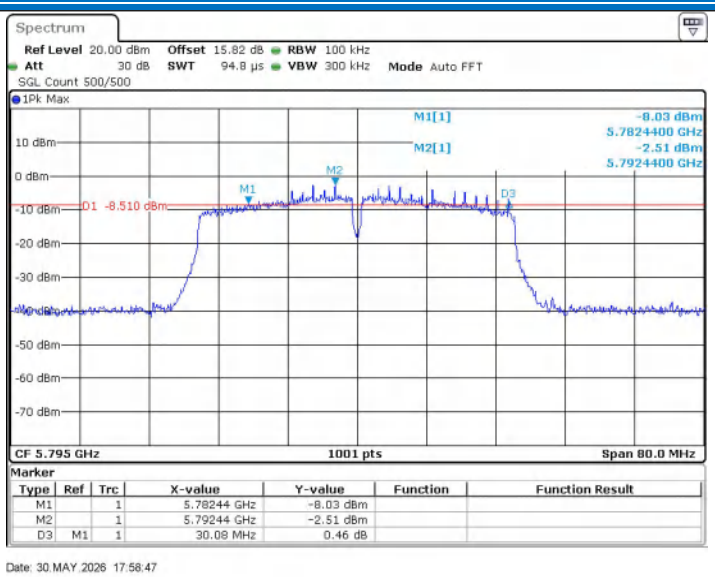
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.78244 GHz	-8.03 dBm		
M2		1	5.79244 GHz	-2.51 dBm		
D3	M1	1	30.08 MHz	0.46 dB		

Ant2

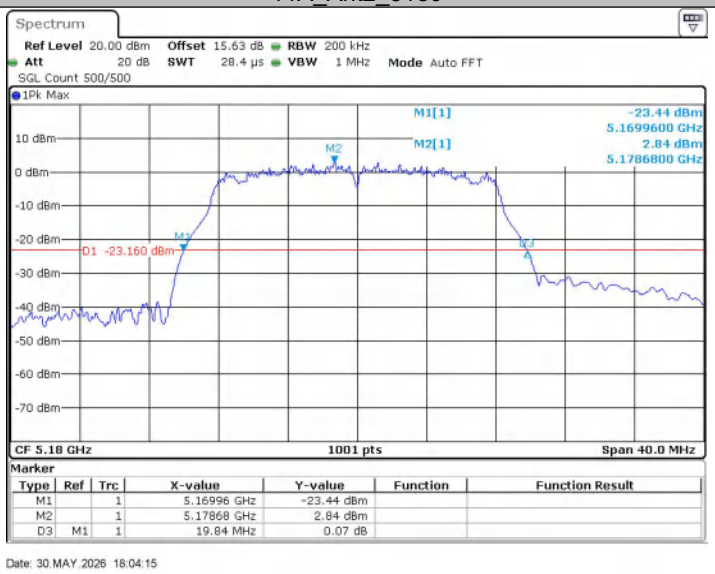
Result Table

TestMode	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	5180	19.84	5169.96	5189.80
	5200	19.52	5190.20	5209.72
	5240	20.32	5229.96	5250.28
	5745	19.68	5735.08	5754.76
	5785	19.76	5775.12	5794.88
	5825	19.72	5815.12	5834.84
11N20SISO	5180	20.16	5169.88	5190.04
	5200	20.12	5189.92	5210.04
	5240	20.20	5229.92	5250.12
	5745	20.08	5734.88	5754.96
	5785	20.04	5774.96	5795.00
	5825	20.12	5814.84	5834.96
11N40SISO	5190	40.64	5169.52	5210.16
	5230	40.16	5209.92	5250.08
	5755	40.48	5734.60	5775.08
	5795	40.48	5774.68	5815.16
11AC20SISO	5180	20.08	5169.92	5190.00
	5200	20.20	5189.88	5210.08
	5240	20.24	5229.92	5250.16
	5745	20.04	5734.96	5755.00
	5785	20.00	5775.00	5795.00
	5825	20.08	5814.80	5834.88
11AC40SISO	5190	40.32	5169.68	5210.00
	5230	40.64	5209.76	5250.40
	5755	40.08	5734.92	5775.00
	5795	40.96	5774.44	5815.40

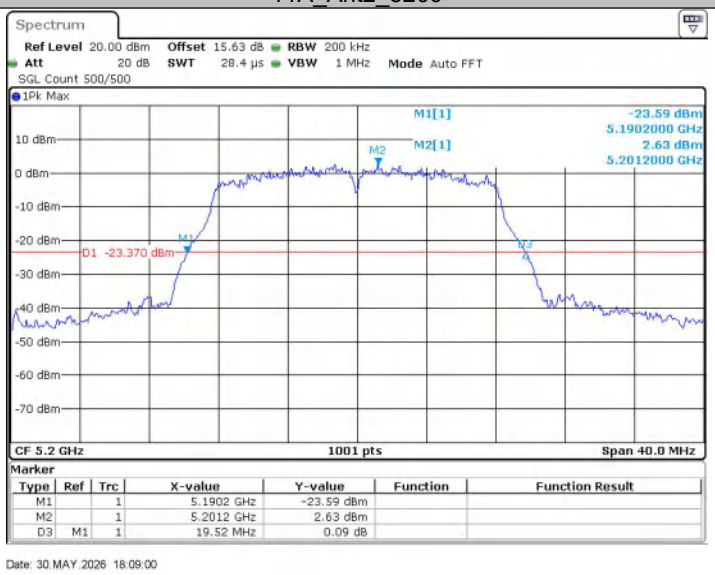
TestMode	Freq(MHz)	6db EBW [MHz]	Limit[MHz]	Verdict
11A	5745	14.20	5738.64	5752.84
	5785	15.04	5777.40	5792.44
	5825	15.08	5817.40	5832.48
11N20SISO	5745	17.32	5736.40	5753.72
	5785	16.12	5777.36	5793.48
	5825	15.12	5817.36	5832.48
11N40SISO	5755	35.04	5737.40	5772.44
	5795	35.12	5777.40	5812.52
11AC20SISO	5745	16.08	5737.40	5753.48
	5785	15.04	5777.48	5792.52
	5825	13.84	5817.40	5831.24
11AC40SISO	5755	32.56	5737.40	5769.96
	5795	35.12	5777.40	5812.52

Test Graph

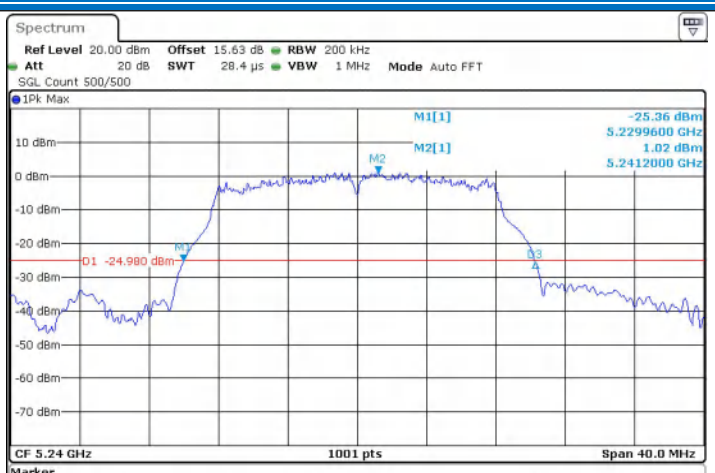
11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240

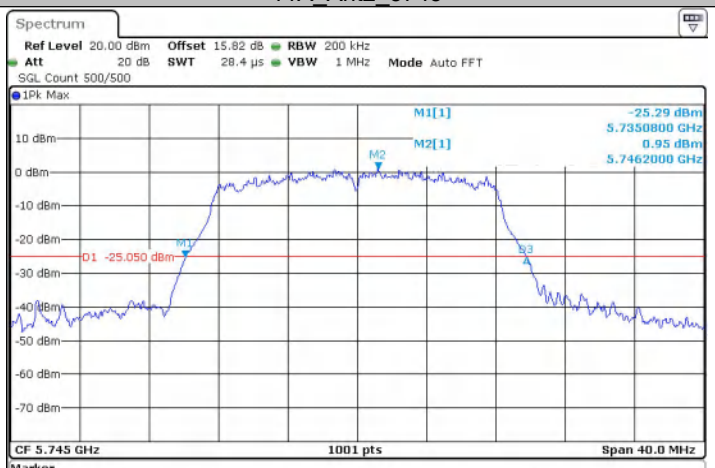


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.22996 GHz	-25.36 dBm		
M2		1	5.2412 GHz	1.02 dBm		
D3	M1	1	20.32 MHz	-0.06 dB		

Date: 30.MAY.2026 18:10:24

11A_Ant2_5745

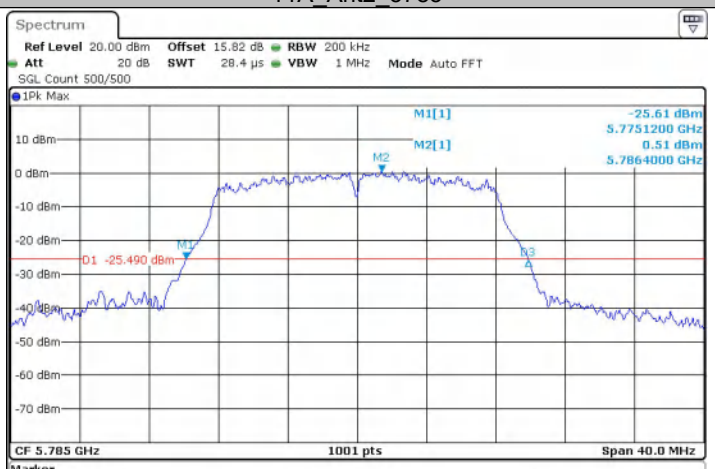


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73508 GHz	-25.29 dBm		
M2		1	5.7462 GHz	0.95 dBm		
D3	M1	1	19.68 MHz	-0.01 dB		

Date: 30.MAY.2026 18:12:10

11A_Ant2_5785

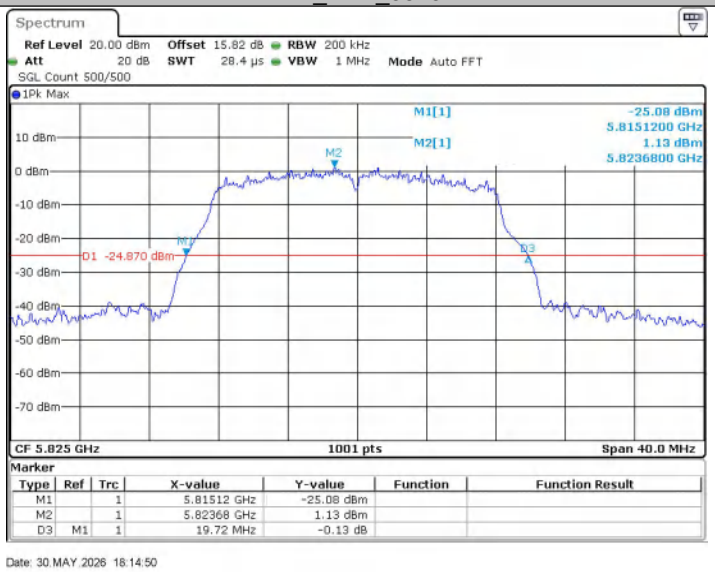


Marker

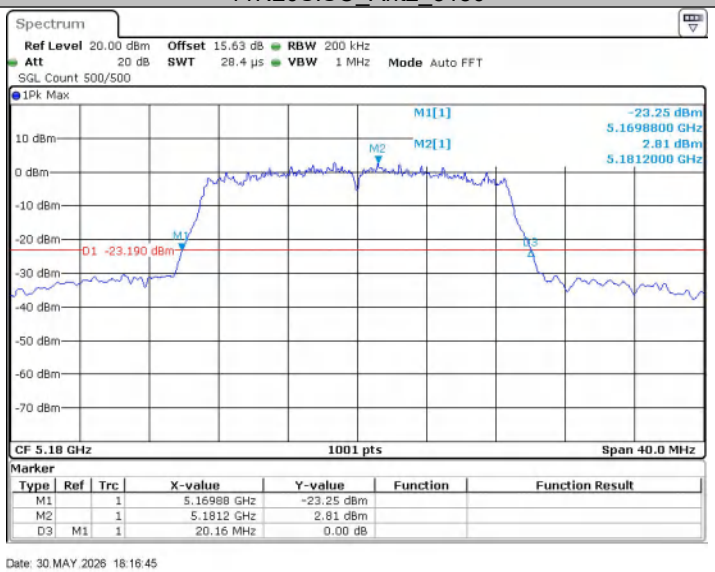
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.77512 GHz	-25.61 dBm		
M2		1	5.7864 GHz	0.51 dBm		
D3	M1	1	19.76 MHz	-0.16 dB		

Date: 30.MAY.2026 18:13:43

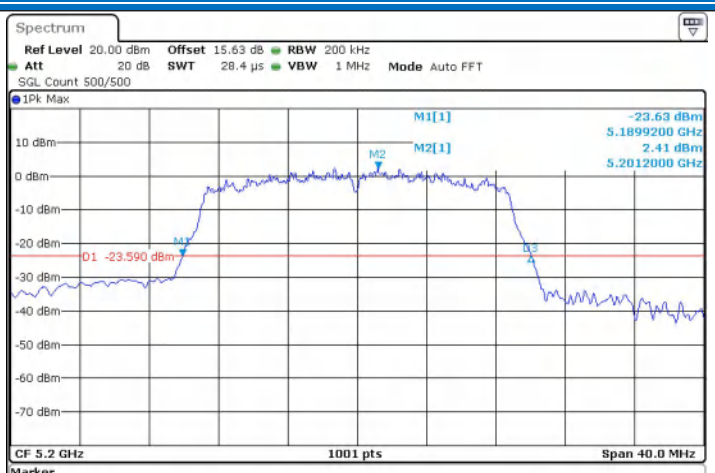
11A_Ant2_5825



11N20SISO_Ant2_5180



11N20SISO_Ant2_5200

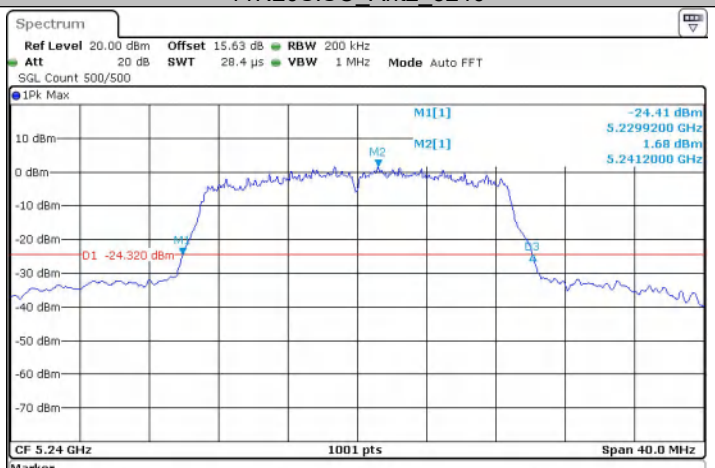


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.18992 GHz	-23.63 dBm		
M2		1	5.2012 GHz	2.41 dBm		
D3	M1	1	20.12 MHz	0.03 dB		

Date: 30.MAY.2026 18:21:14

11N20SISO_Ant2_5240

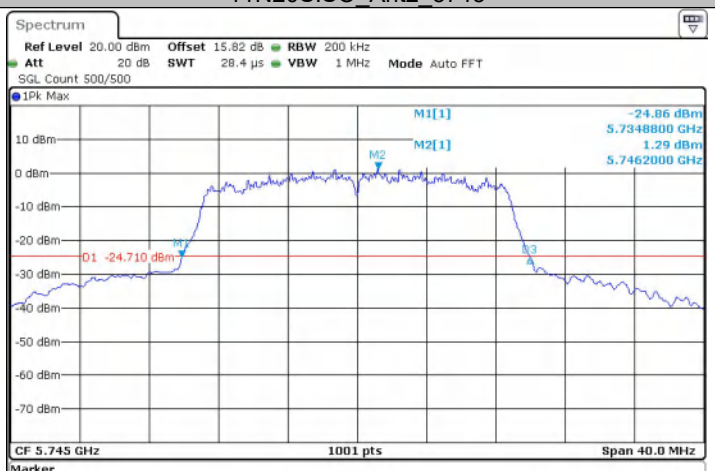


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.22992 GHz	-24.41 dBm		
M2		1	5.2412 GHz	1.68 dBm		
D3	M1	1	20.2 MHz	0.08 dB		

Date: 30.MAY.2026 18:23:15

11N20SISO_Ant2_5745

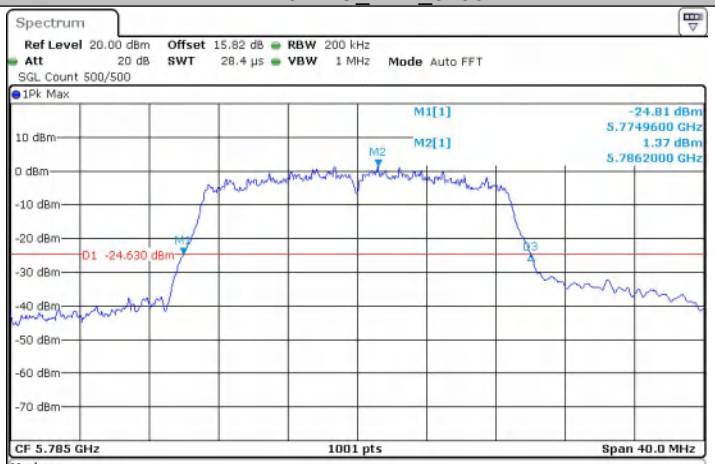


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73488 GHz	-24.86 dBm		
M2		1	5.7462 GHz	1.29 dBm		
D3	M1	1	20.08 MHz	-0.11 dB		

Date: 30.MAY.2026 18:25:45

11N20SISO_Ant2_5785

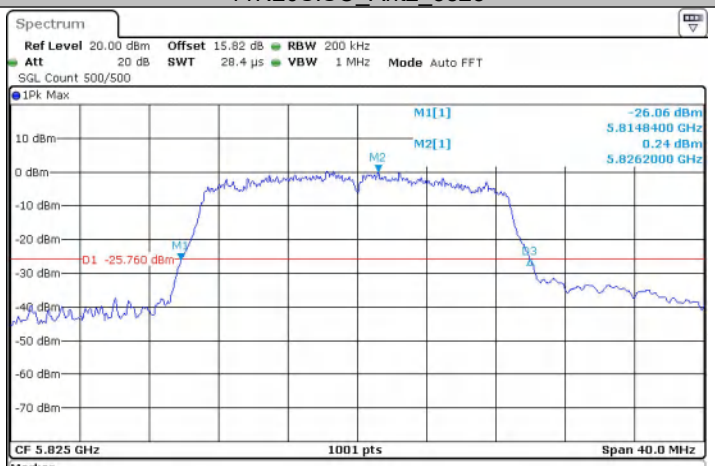


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.77496 GHz	-24.81 dBm		
M2		1	5.7862 GHz	1.37 dBm		
D3	M1	1	20.04 MHz	0.04 dB		

Date: 30.MAY.2026 18:27:24

11N20SISO_Ant2_5825

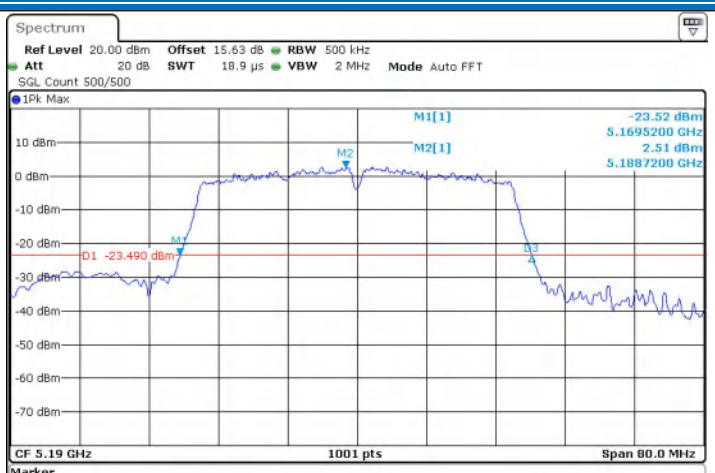


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.81484 GHz	-26.06 dBm		
M2		1	5.8262 GHz	0.24 dBm		
D3	M1	1	20.12 MHz	0.28 dB		

Date: 30.MAY.2026 18:28:50

11N40SISO_Ant2_5190

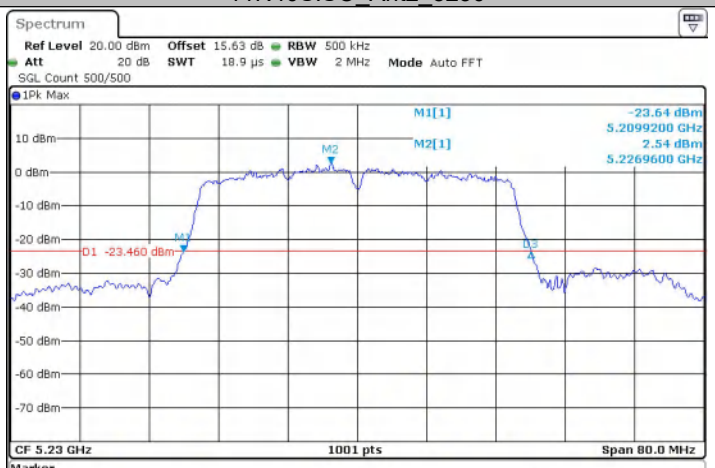


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.16952 GHz	-23.52 dBm		
M2		1	5.18872 GHz	2.51 dBm		
D3	M1	1	40.64 MHz	-0.20 dB		

Date: 30.MAY.2026 18:31:35

11N40SISO_Ant2_5230

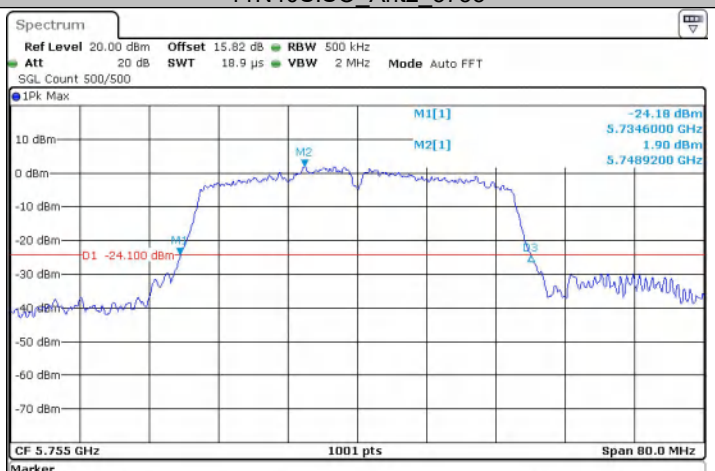


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.20992 GHz	-23.64 dBm		
M2		1	5.22696 GHz	2.54 dBm		
D3	M1	1	40.16 MHz	-0.08 dB		

Date: 30.MAY.2026 18:49:55

11N40SISO_Ant2_5755

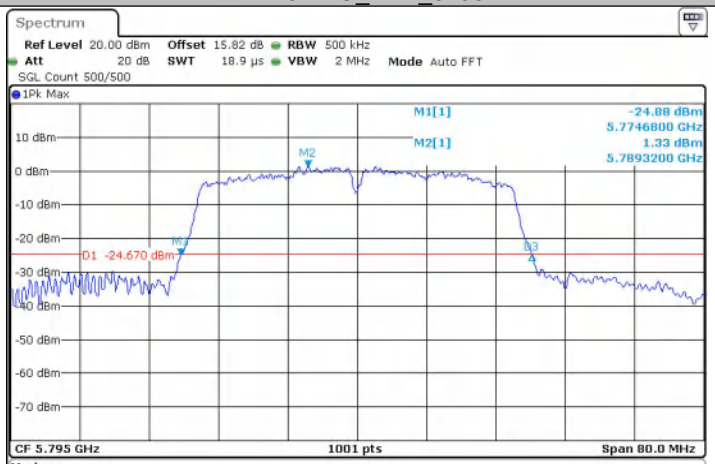


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7346 GHz	-24.18 dBm		
M2		1	5.74892 GHz	1.90 dBm		
D3	M1	1	40.48 MHz	-0.28 dB		

Date: 30.MAY.2026 18:51:57

11N40SISO_Ant2_5795

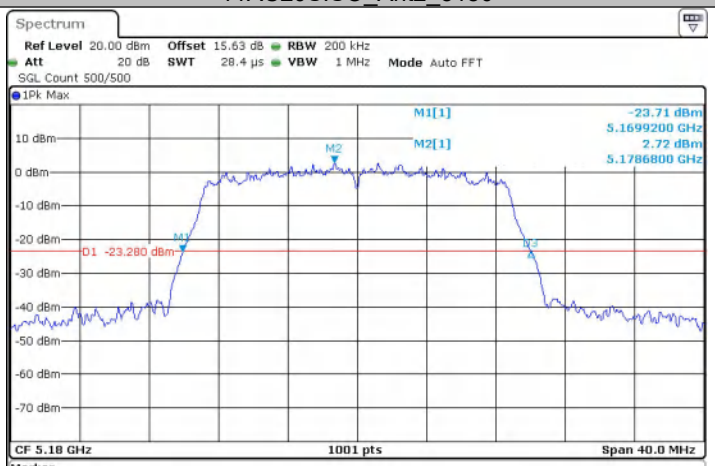


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.77468 GHz	-24.88 dBm		
M2		1	5.78932 GHz	1.33 dBm		
D3	M1	1	40.48 MHz	0.13 dB		

Date: 30.MAY.2026 18:53:51

11AC20SISO_Ant2_5180

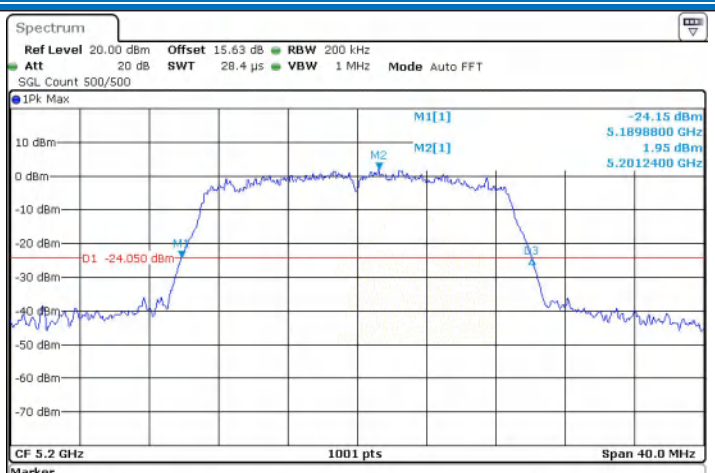


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.16992 GHz	-23.71 dBm		
M2		1	5.17868 GHz	2.72 dBm		
D3	M1	1	20.08 MHz	0.30 dB		

Date: 30.MAY.2026 18:55:35

11AC20SISO_Ant2_5200

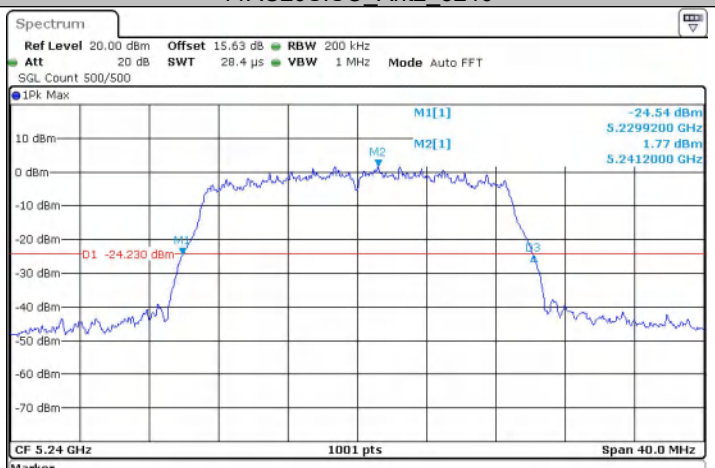


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.18988 GHz	-24.15 dBm		
M2		1	5.20124 GHz	1.95 dBm		
D3	M1	1	20.2 MHz	-0.40 dB		

Date: 30.MAY.2026 18:57:59

11AC20SISO_Ant2_5240

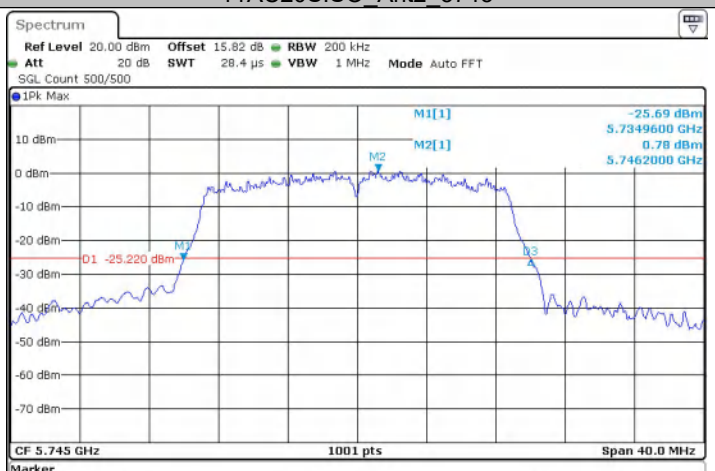


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.22992 GHz	-24.54 dBm		
M2		1	5.2412 GHz	1.77 dBm		
D3	M1	1	20.24 MHz	-0.27 dB		

Date: 30.MAY.2026 20:06:14

11AC20SISO_Ant2_5745

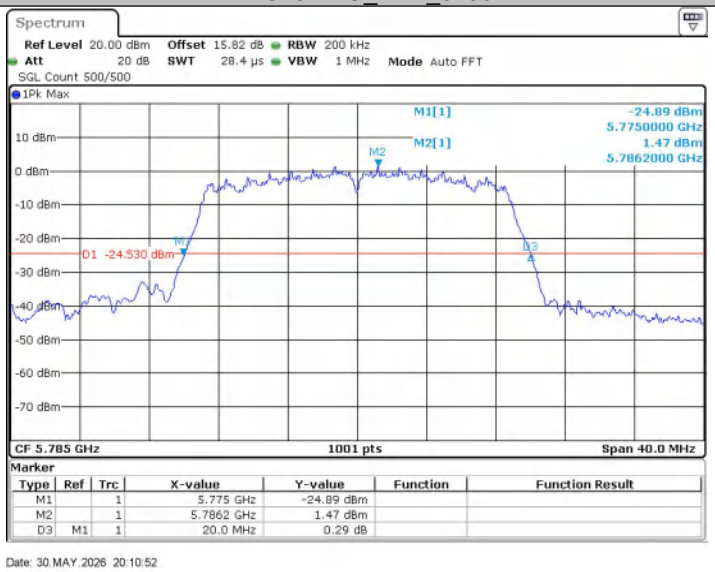


Marker

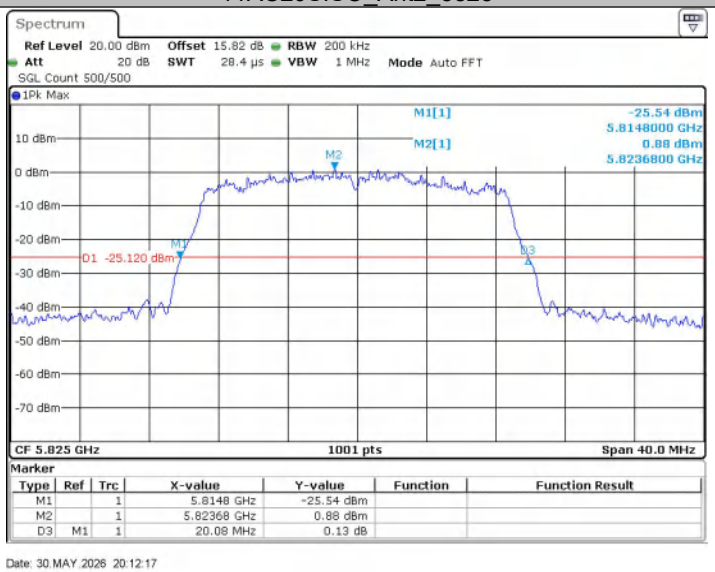
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73496 GHz	-25.69 dBm		
M2		1	5.7462 GHz	0.78 dBm		
D3	M1	1	20.04 MHz	0.29 dB		

Date: 30.MAY.2026 20:08:27

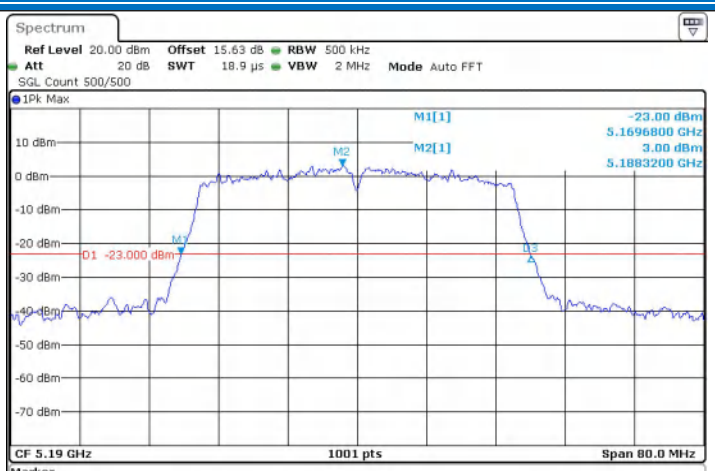
11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5190

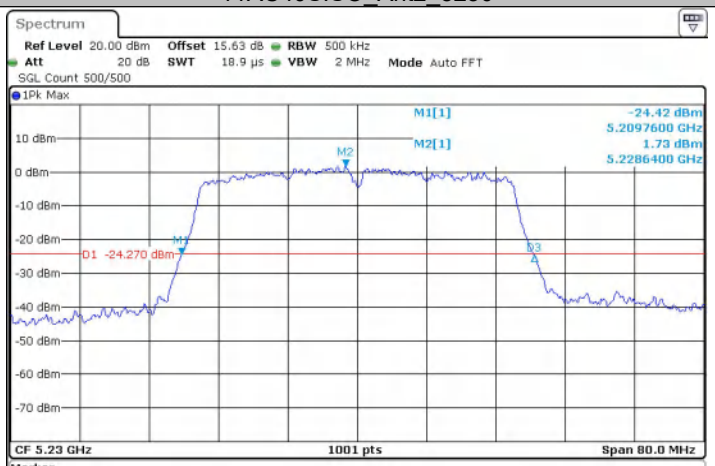


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.16968 GHz	-23.00 dBm		
M2		1	5.18832 GHz	3.00 dBm		
D3	M1	1	40.32 MHz	-0.70 dB		

Date: 30.MAY.2026 20:14:03

11AC40SISO_Ant2_5230

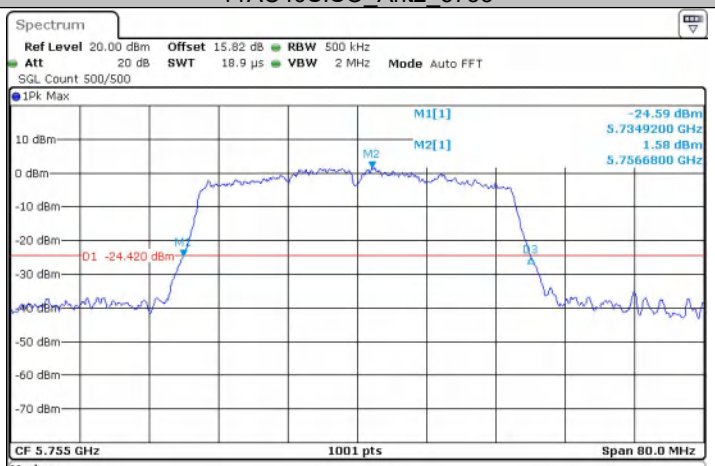


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.20976 GHz	-24.42 dBm		
M2		1	5.22864 GHz	1.73 dBm		
D3	M1	1	40.64 MHz	-0.16 dB		

Date: 30.MAY.2026 20:15:56

11AC40SISO_Ant2_5755

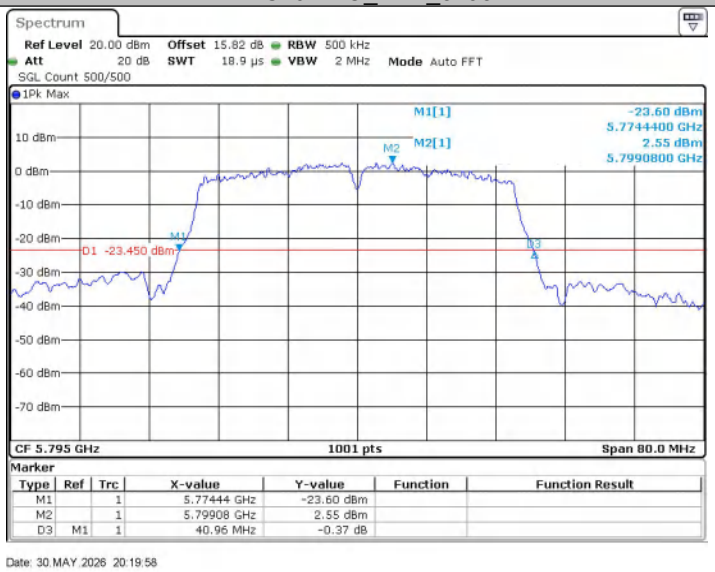


Marker

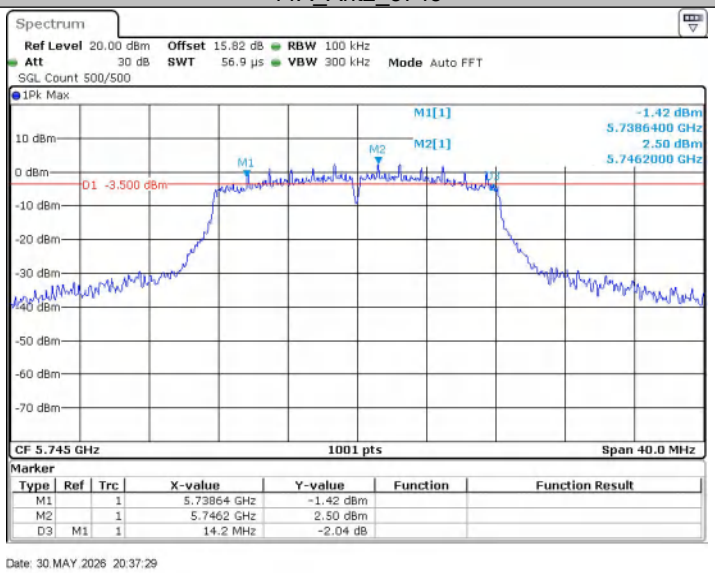
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.73492 GHz	-24.59 dBm		
M2		1	5.75668 GHz	1.58 dBm		
D3	M1	1	40.08 MHz	-0.25 dB		

Date: 30.MAY.2026 20:17:42

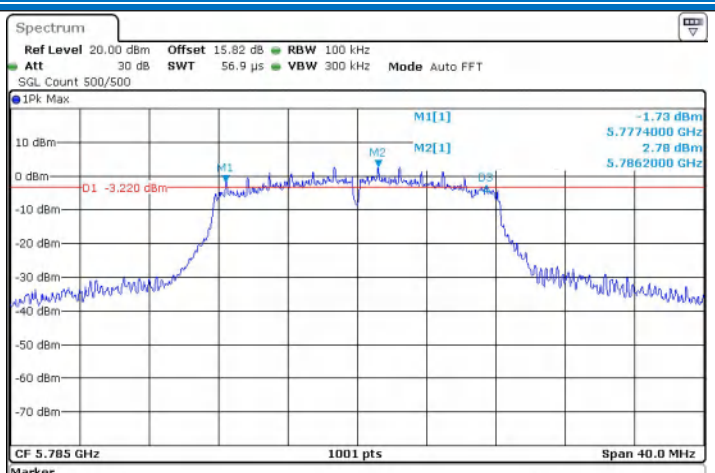
11AC40SISO_Ant2_5795



11A_Ant2_5745



11A_Ant2_5785

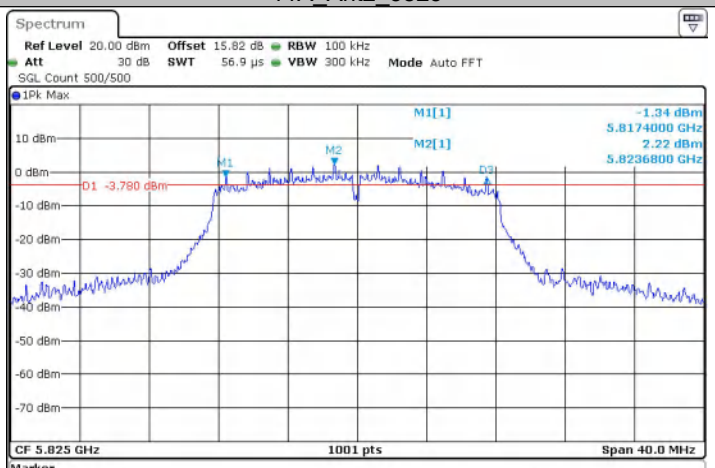


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7774 GHz	-1.73 dBm		
M2		1	5.7862 GHz	2.78 dBm		
D3	M1	1	15.04 MHz	-0.98 dB		

Date: 30.MAY.2026 20:38:06

11A_Ant2_5825

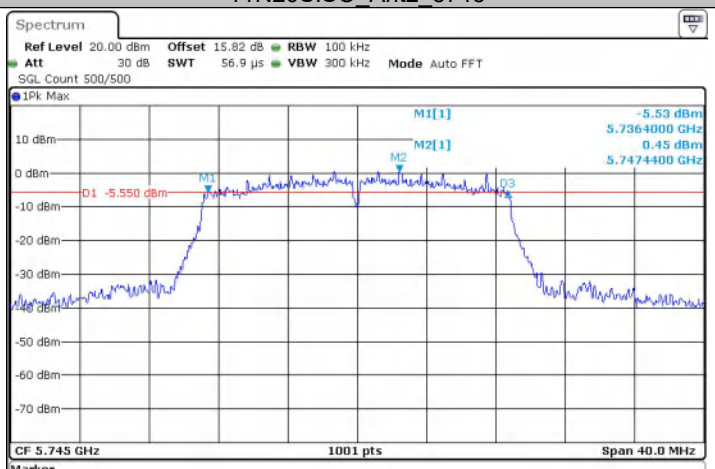


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.8174 GHz	-1.34 dBm		
M2		1	5.82368 GHz	2.22 dBm		
D3	M1	1	15.08 MHz	-0.23 dB		

Date: 30.MAY.2026 20:38:46

11N20SISO_Ant2_5745

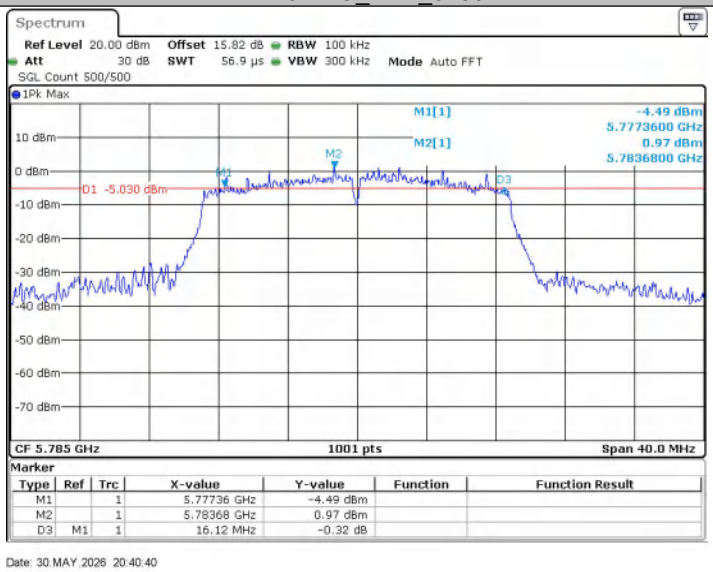


Marker

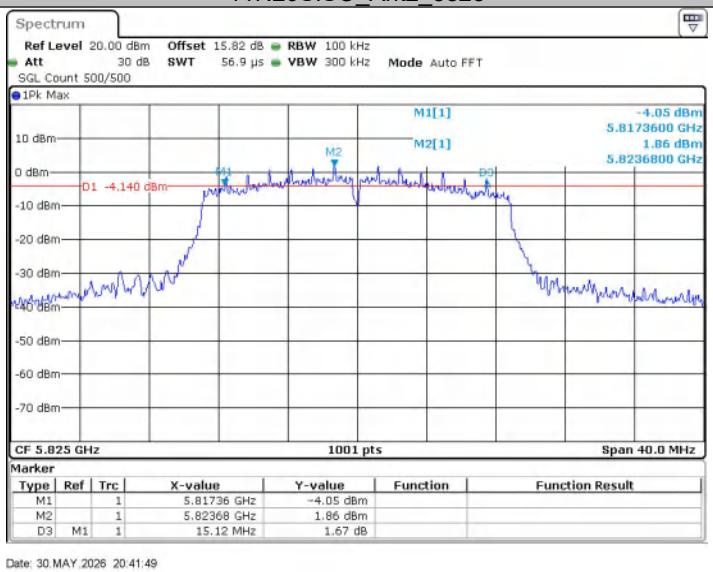
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7364 GHz	-5.53 dBm		
M2		1	5.74744 GHz	0.45 dBm		
D3	M1	1	17.32 MHz	0.20 dB		

Date: 30.MAY.2026 20:40:22

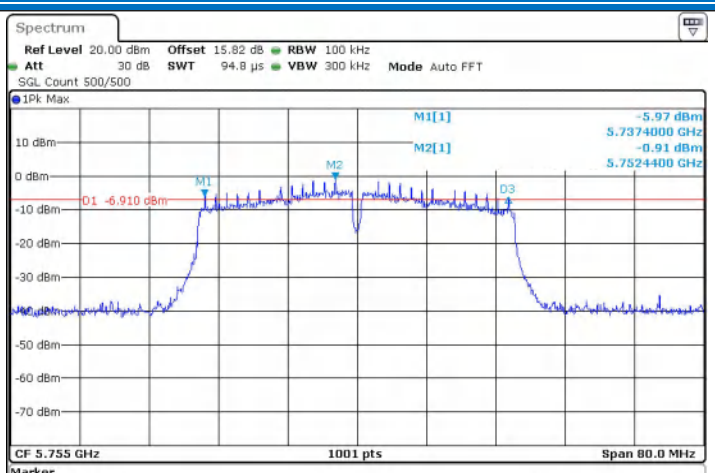
11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755

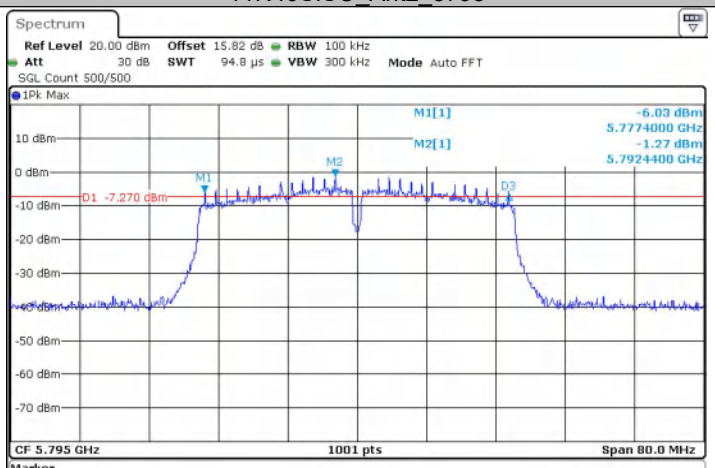


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7374 GHz	-5.97 dBm		
M2		1	5.75244 GHz	-0.91 dBm		
D3	M1	1	35.04 MHz	-0.27 dB		

Date: 30.MAY.2026 20:42:29

11N40SISO_Ant2_5795

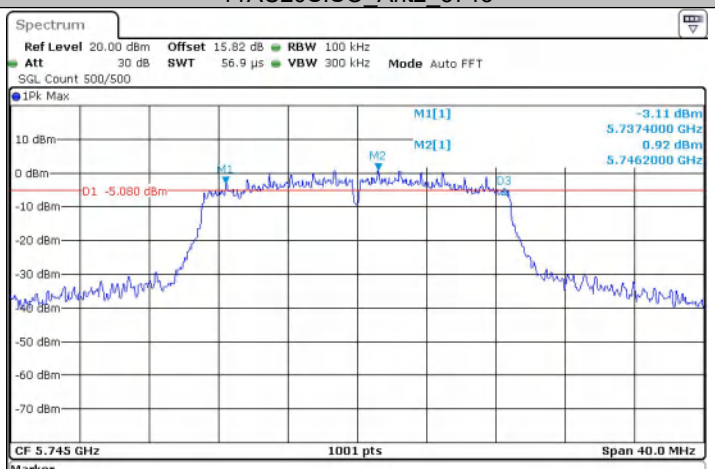


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7774 GHz	-6.03 dBm		
M2		1	5.79244 GHz	-1.27 dBm		
D3	M1	1	35.12 MHz	-0.34 dB		

Date: 30.MAY.2026 20:43:42

11AC20SISO_Ant2_5745

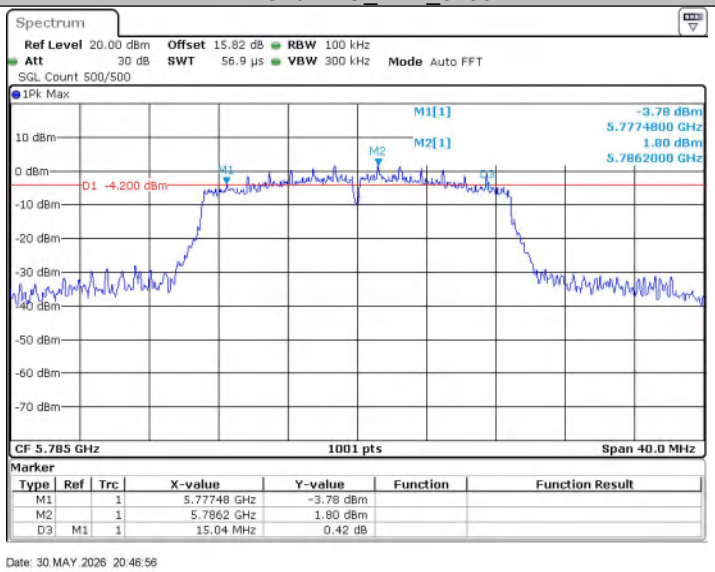


Marker

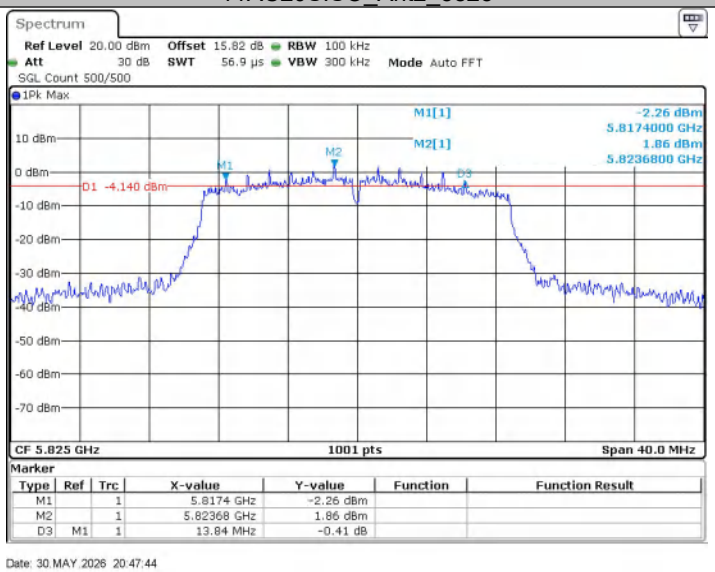
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7374 GHz	-3.11 dBm		
M2		1	5.7462 GHz	0.92 dBm		
D3	M1	1	16.08 MHz	-1.43 dB		

Date: 30.MAY.2026 20:45:22

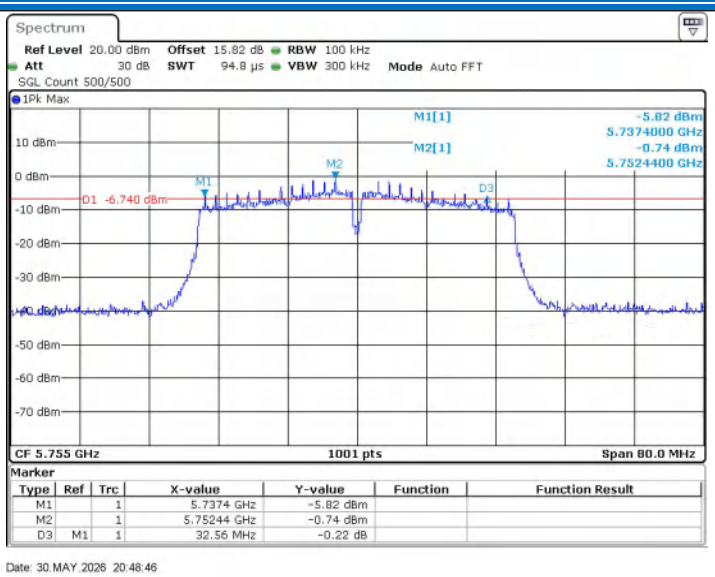
11AC20SISO_Ant2_5785



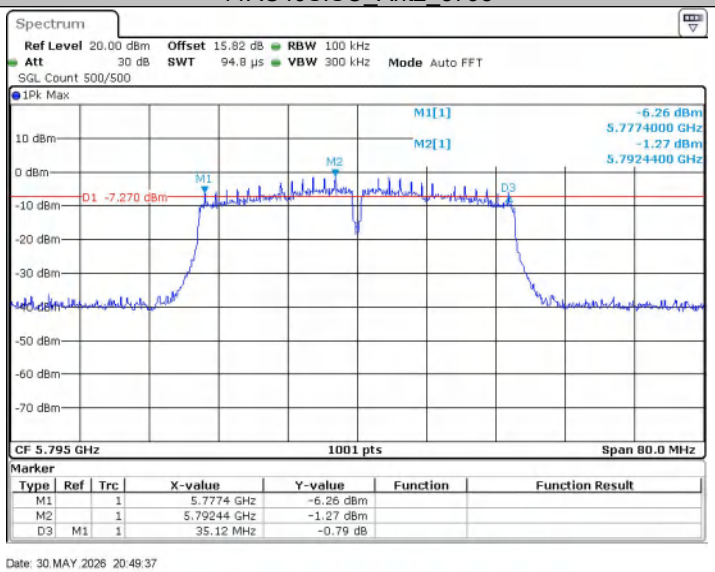
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



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:

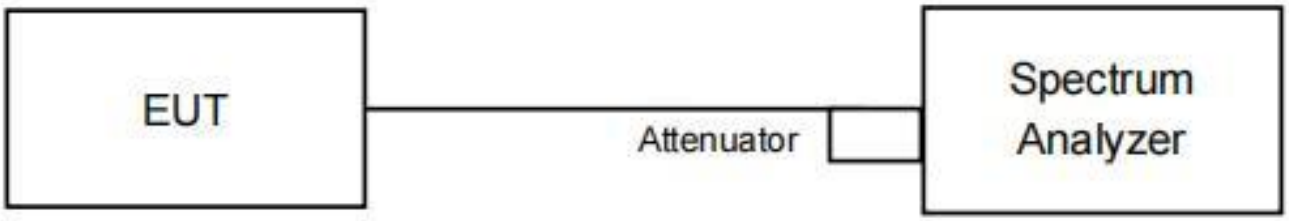
Set RBW = 20MHz

Set VBW = 40MHz

Set detector = peak.

Set span =0Hz

Test Setup Diagram

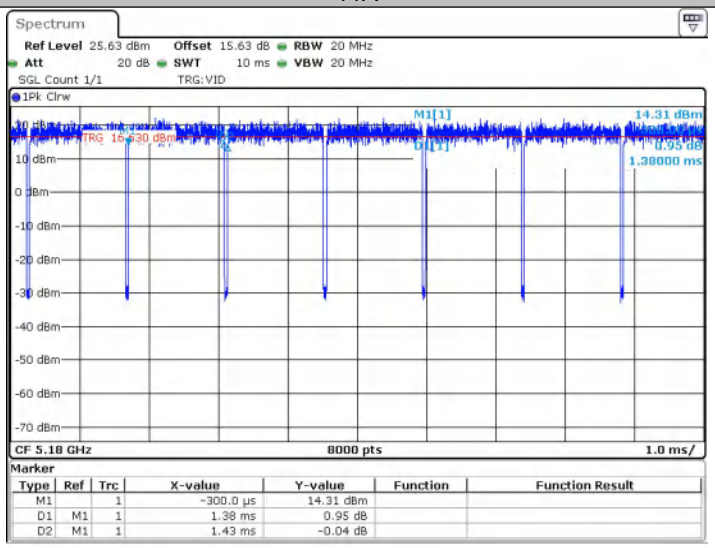


ANT1

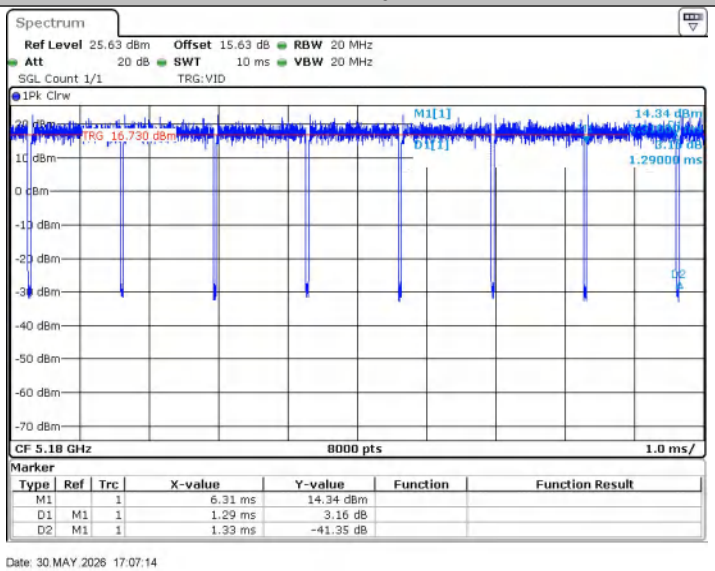
Measurement Data

Test Mode	Antenna	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	Ant1	96.50	0.15
11N20	Ant1	96.99	0.13
11N40	Ant1	92.75	0.33
11AC20	Ant1	96.30	0.16
11AC40	Ant1	92.86	0.32

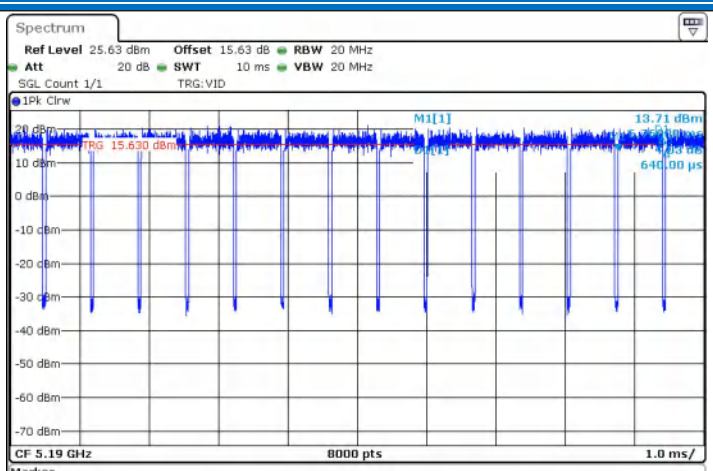
11A



11N20



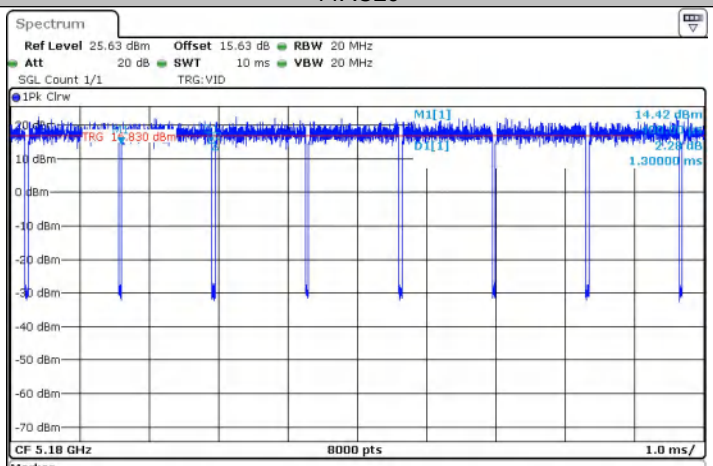
11N40



Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	6.76 ms	13.71 dBm		
D1	M1	1	640.0 µs	4.03 dB		
D2	M1	1	690.0 µs	-0.00 dB		

Date: 30.MAY.2026 17:28:44

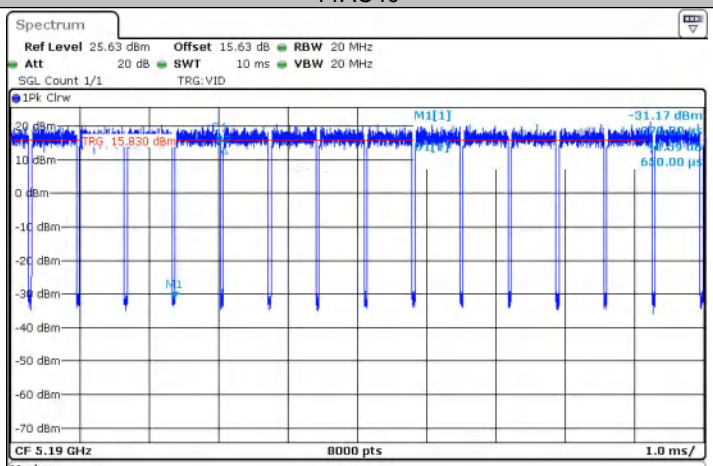
11AC20



Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	-400.0 µs	14.42 dBm		
D1	M1	1	1.3 ms	2.28 dB		
D2	M1	1	1.35 ms	-0.03 dB		

Date: 30.MAY.2026 17:40:06

11AC40



Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	370.0 µs	-31.17 dBm		
D1	M1	1	650.0 µs	48.59 dB		
D2	M1	1	700.0 µs	44.89 dB		

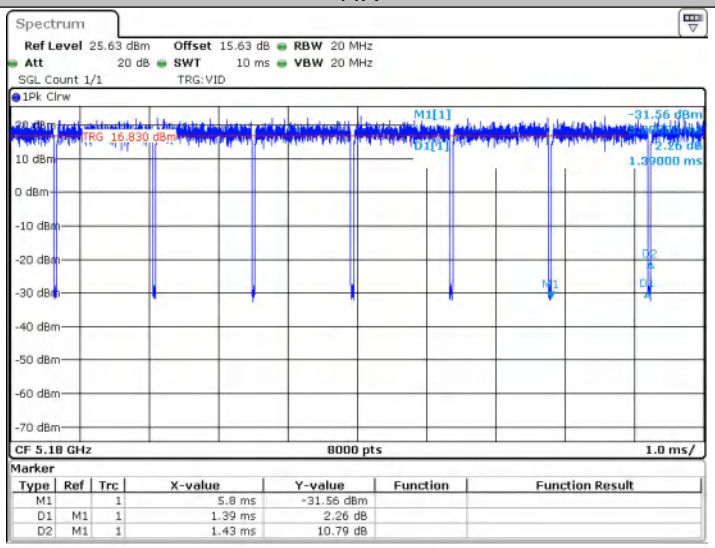
Date: 30.MAY.2026 17:51:23

ANT2

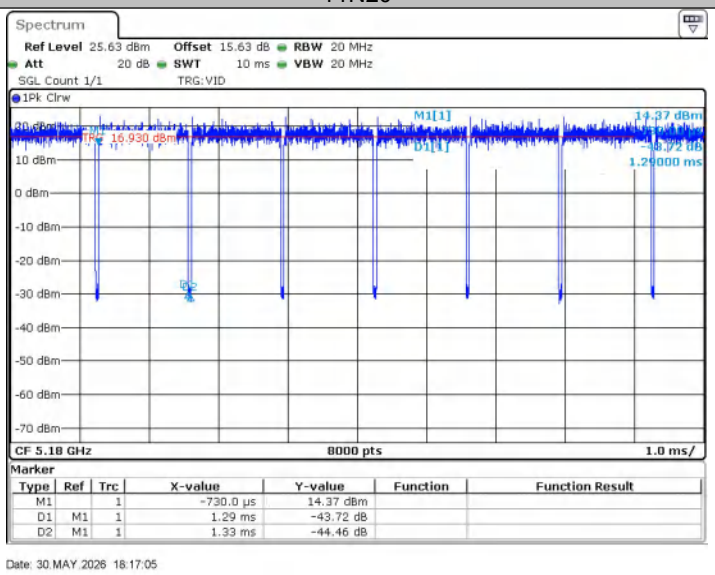
Measurement Data

Test Mode	Antenna	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	Ant1	97.20	0.12
11N20	Ant1	96.99	0.13
11N40	Ant1	94.12	0.26
11AC20	Ant1	97.01	0.13
11AC40	Ant1	92.86	0.32

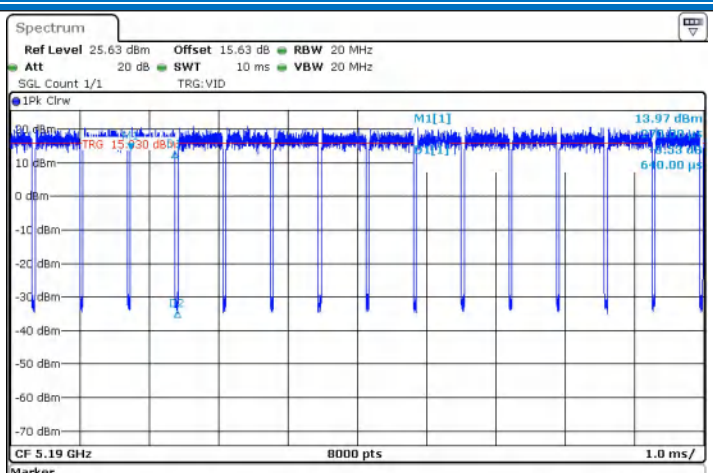
11A



11N20



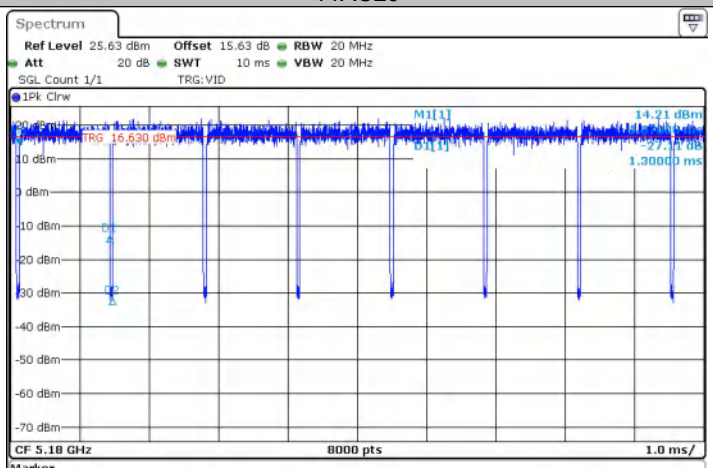
11N40



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	-270.0 µs	13.97 dBm		
D1	M1	1	640.0 µs	-0.53 dB		
D2	M1	1	680.0 µs	-48.23 dB		

Date: 30.MAY.2026 18:31:57

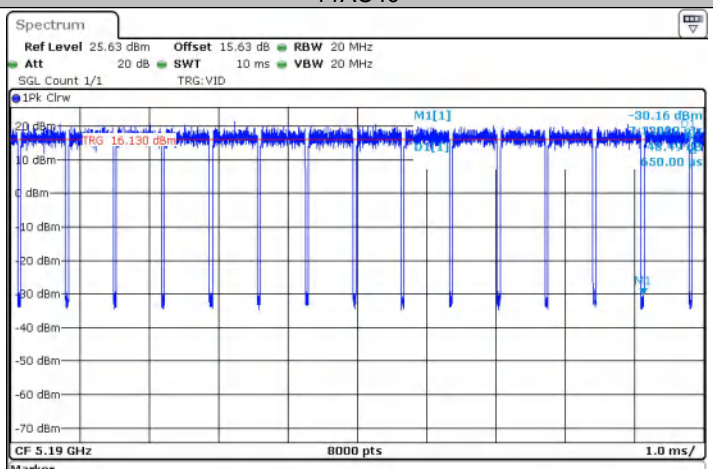
11AC20



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	-1.87 ms	14.21 dBm		
D1	M1	1	1.3 ms	-27.11 dB		
D2	M1	1	1.34 ms	-45.70 dB		

Date: 30.MAY.2026 18:55:55

11AC40



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	7.13 ms	-30.16 dBm		
D1	M1	1	650.0 µs	48.49 dB		
D2	M1	1	700.0 µs	43.99 dB		

Date: 30.MAY.2026 20:14:25

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	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
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.

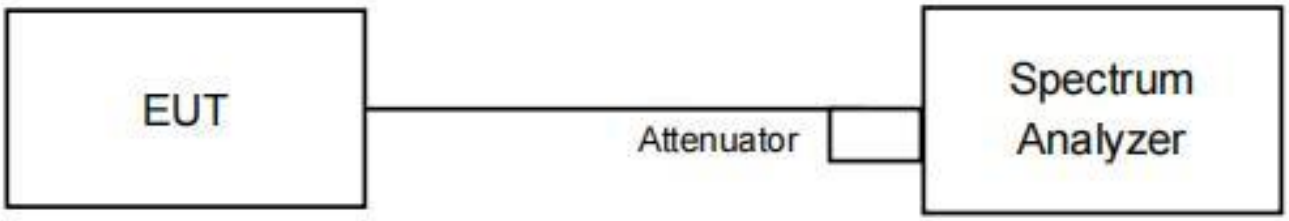
(2) Set VBW ≥ 3 MHz.

(3) Detector = power average

(4) Sweep time = auto.

(5) Add duty cycle to the measured average power.

Test Setup Diagram

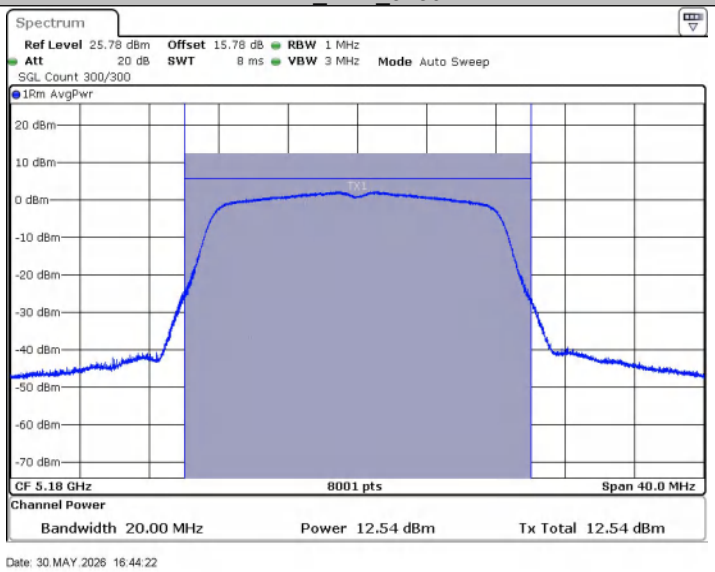


ANT1

Measurement Data

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.54	≤23.98	PASS
		5200	11.80	≤23.98	PASS
		5240	11.32	≤23.98	PASS
		5745	10.70	≤30.00	PASS
		5785	10.70	≤30.00	PASS
		5825	10.23	≤30.00	PASS
11N20SISO	Ant1	5180	12.38	≤23.98	PASS
		5200	11.82	≤23.98	PASS
		5240	11.02	≤23.98	PASS
		5745	10.69	≤30.00	PASS
		5785	10.54	≤30.00	PASS
		5825	10.06	≤30.00	PASS
11N40SISO	Ant1	5190	12.01	≤23.98	PASS
		5230	11.18	≤23.98	PASS
		5755	10.72	≤30.00	PASS
		5795	10.62	≤30.00	PASS
11AC20SISO	Ant1	5180	12.44	≤23.98	PASS
		5200	11.90	≤23.98	PASS
		5240	11.06	≤23.98	PASS
		5745	10.54	≤30.00	PASS
		5785	10.64	≤30.00	PASS
		5825	10.13	≤30.00	PASS
11AC40SISO	Ant1	5190	12.10	≤23.98	PASS
		5230	11.14	≤23.98	PASS
		5755	10.84	≤30.00	PASS
		5795	10.61	≤30.00	PASS

11A_Ant1_5180



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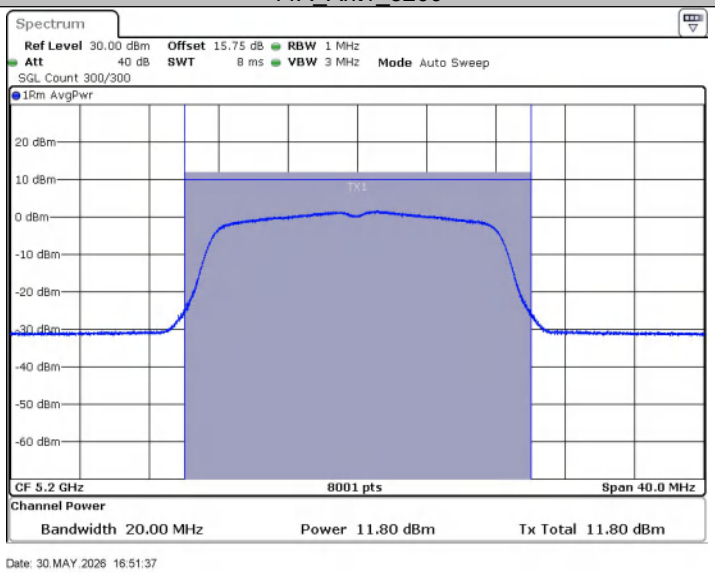

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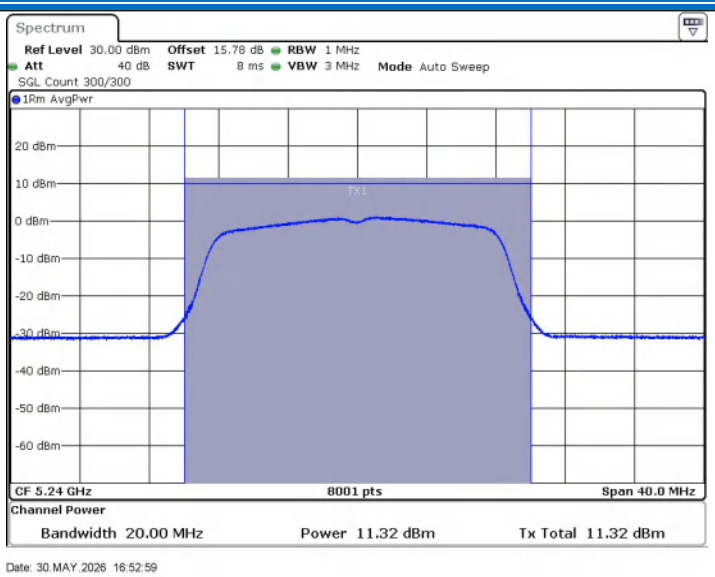

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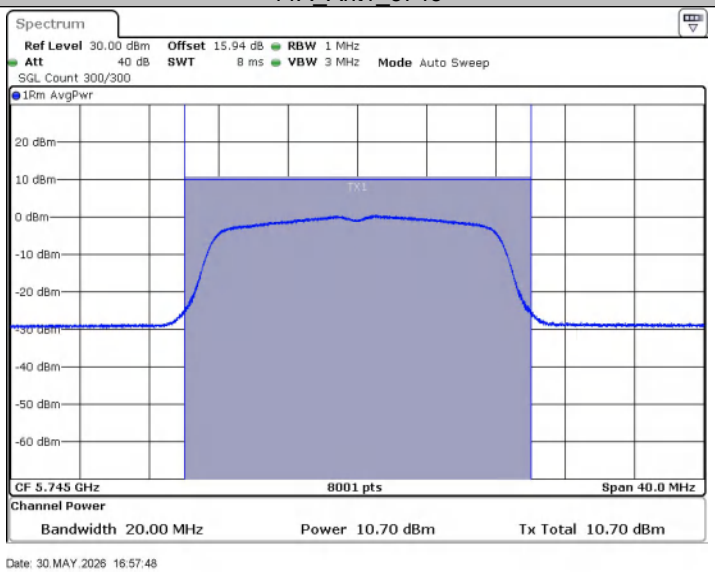

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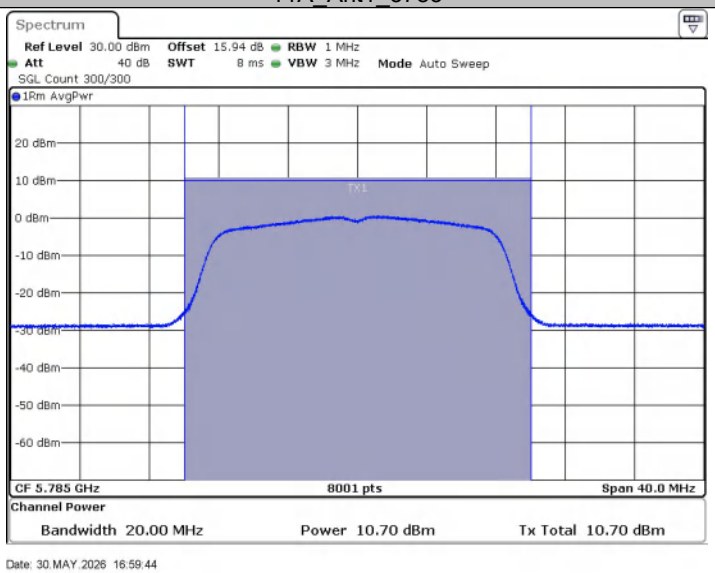

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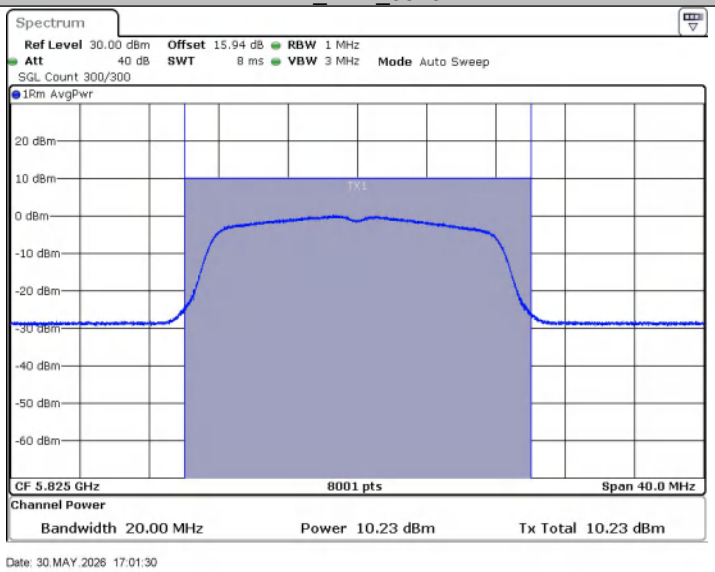

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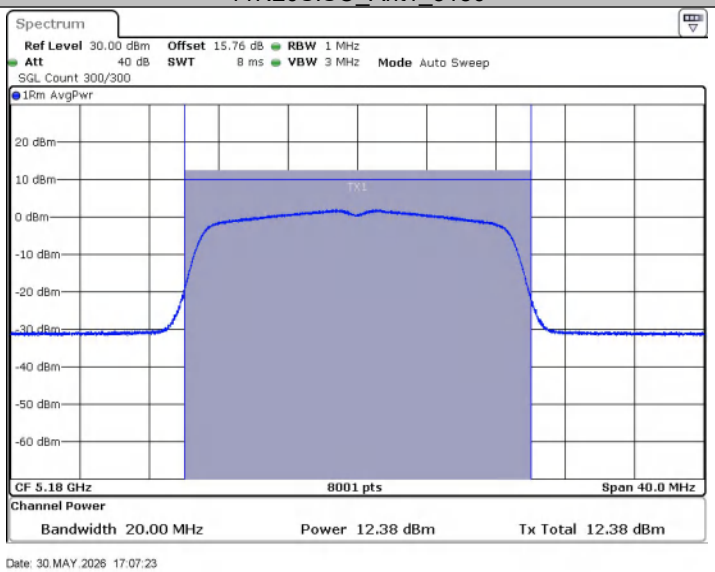

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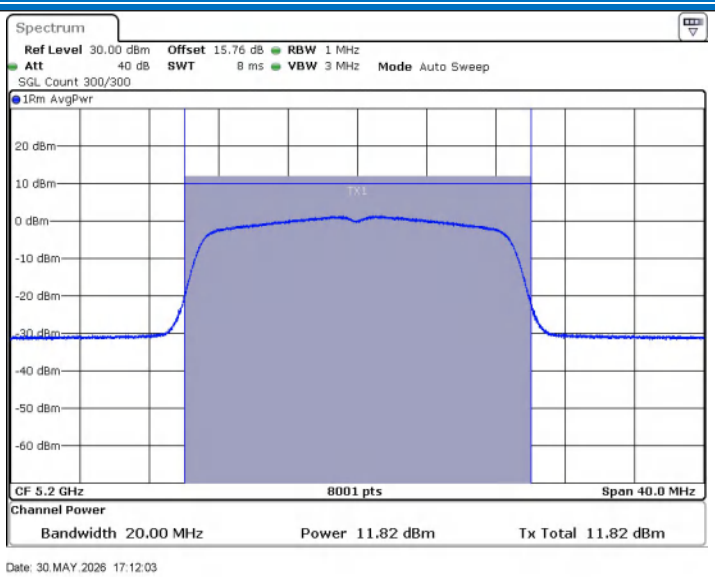

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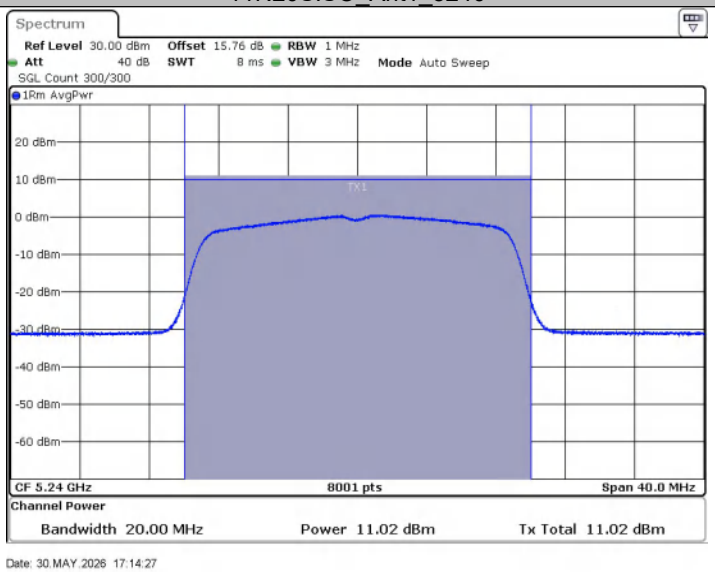

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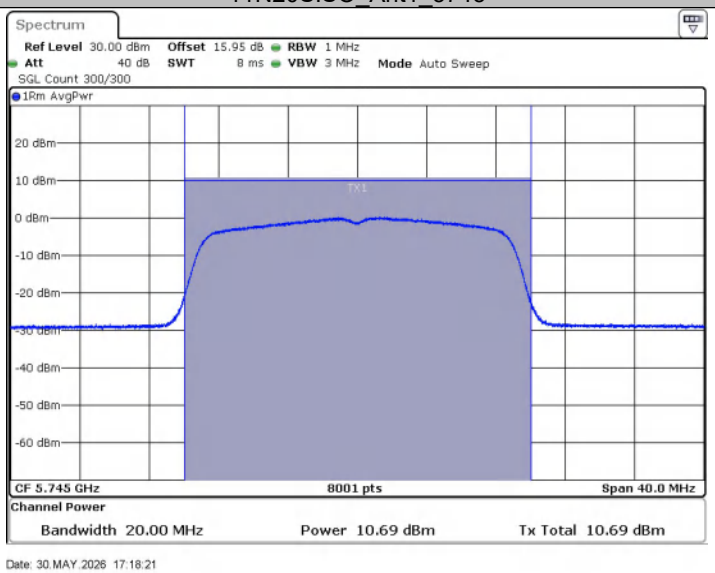

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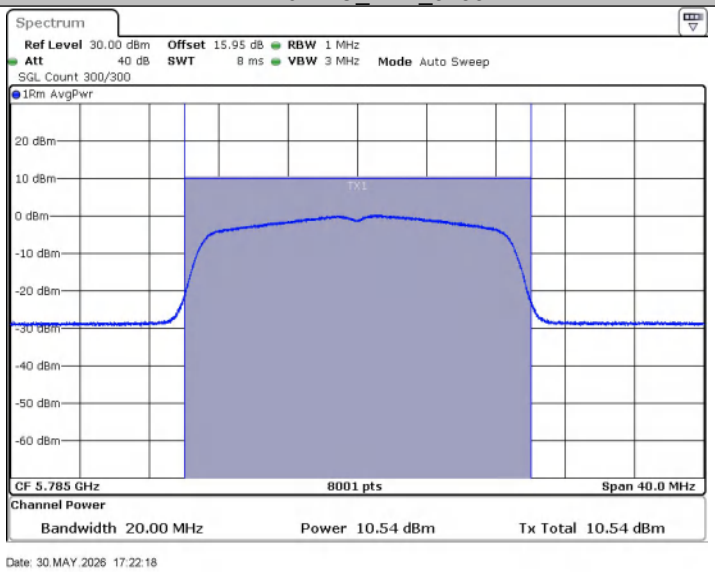

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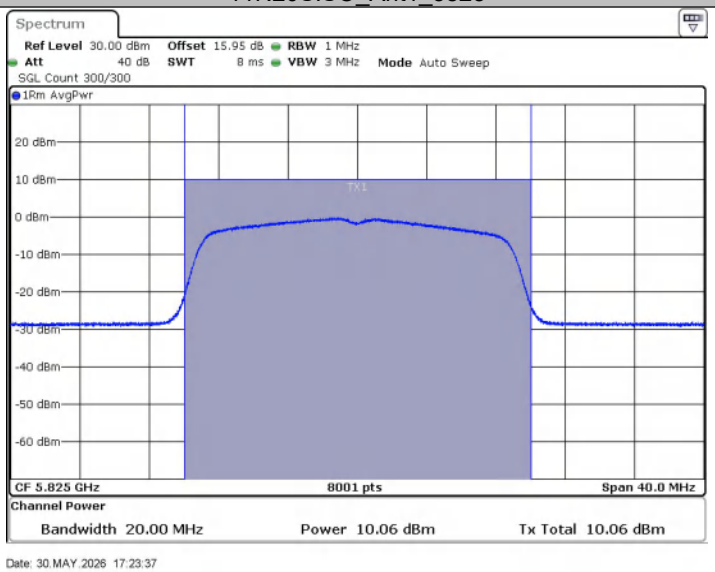

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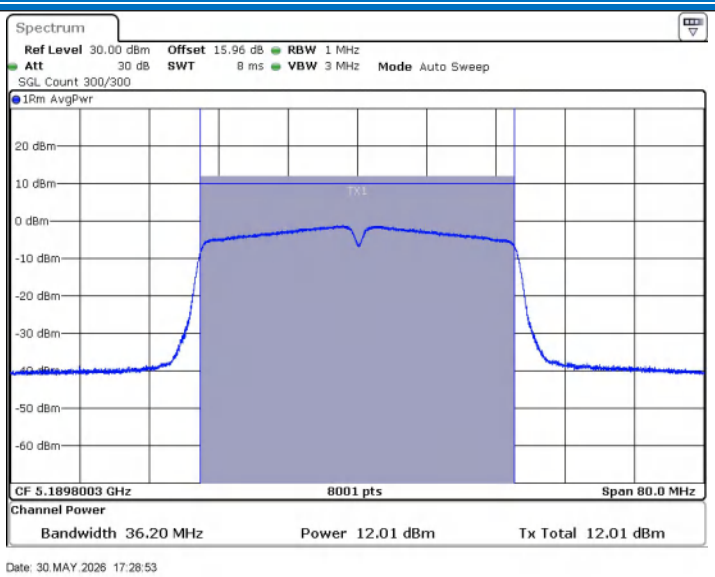

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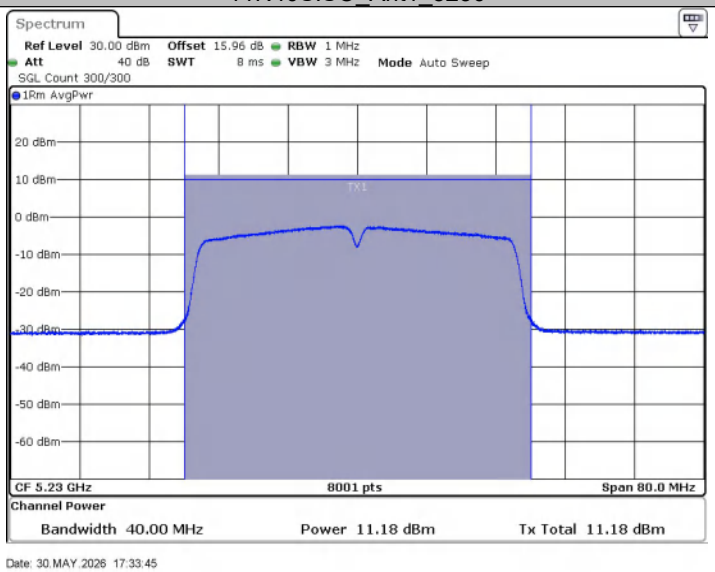

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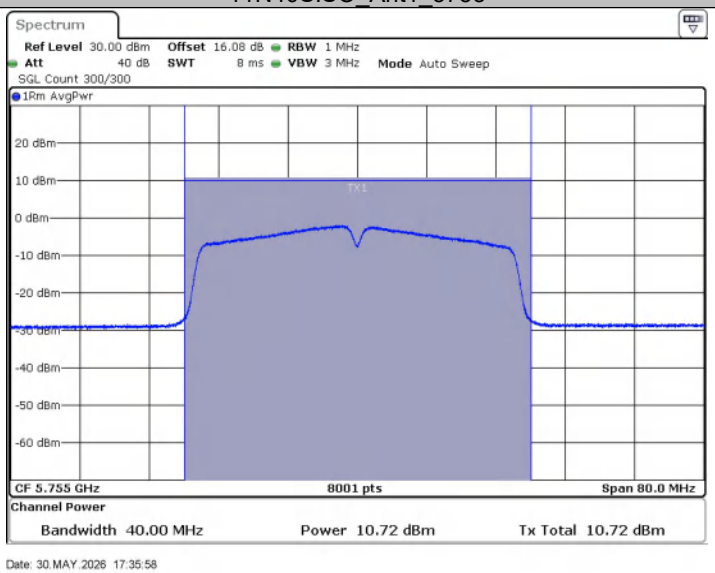

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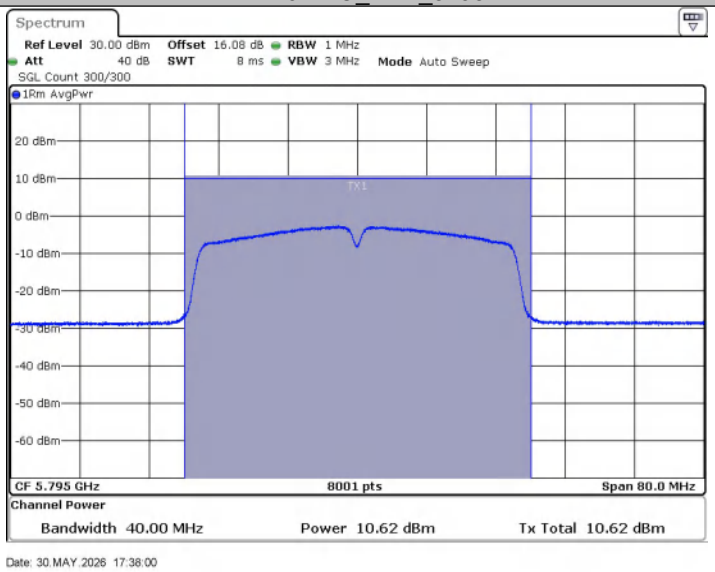

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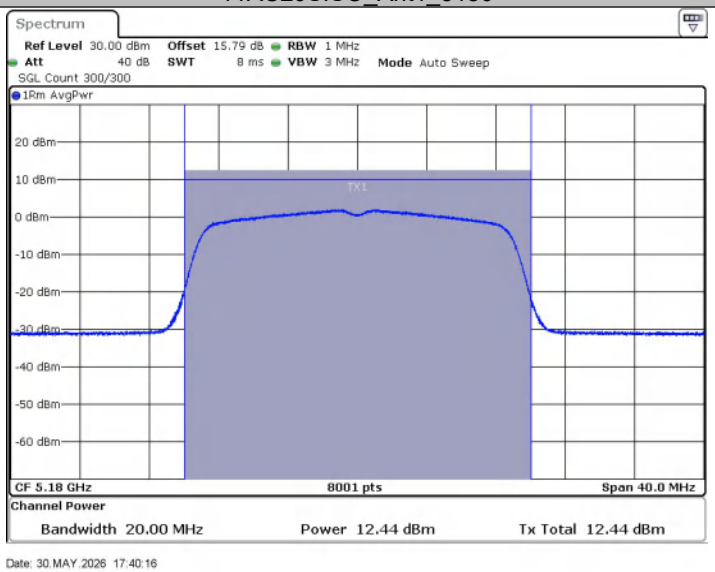

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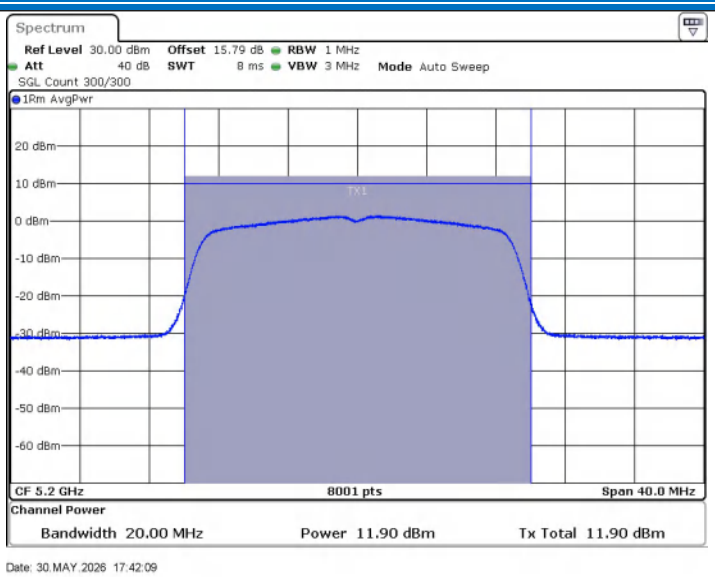

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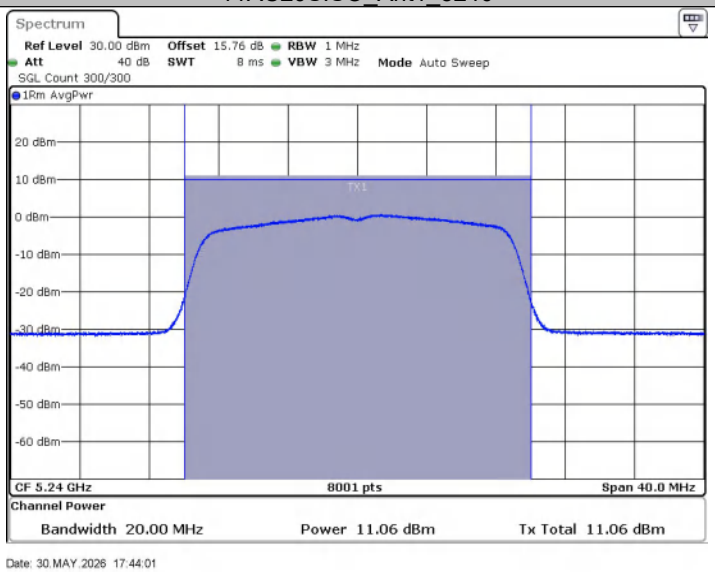

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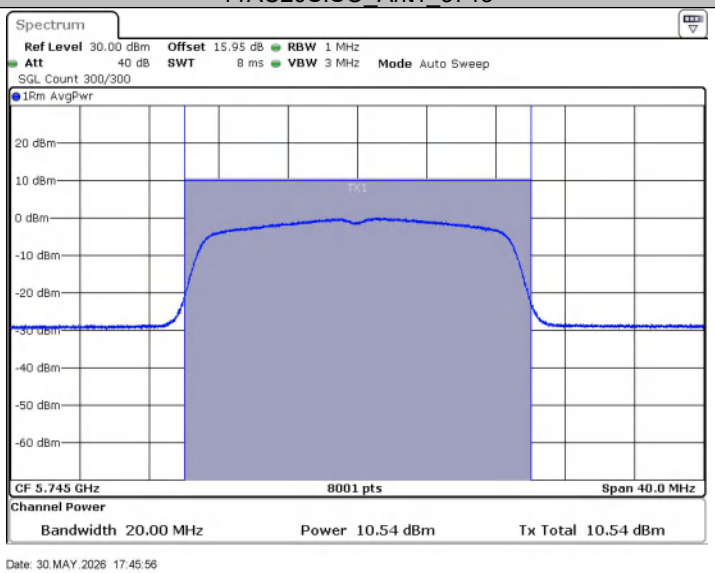

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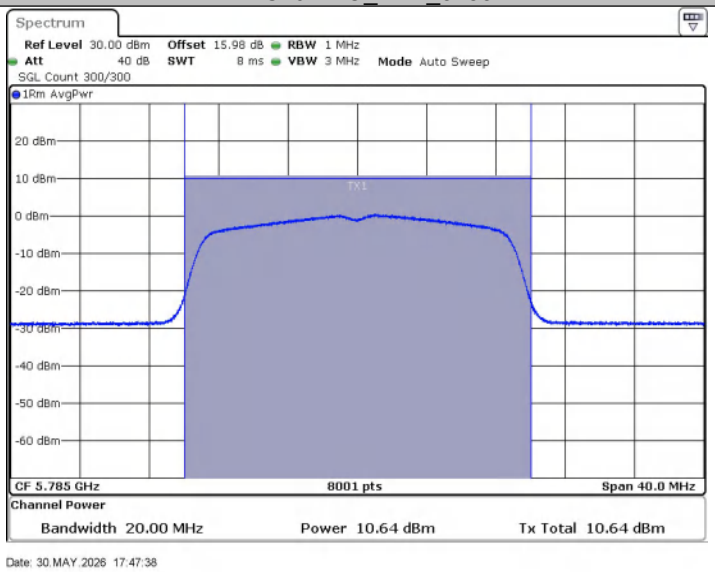

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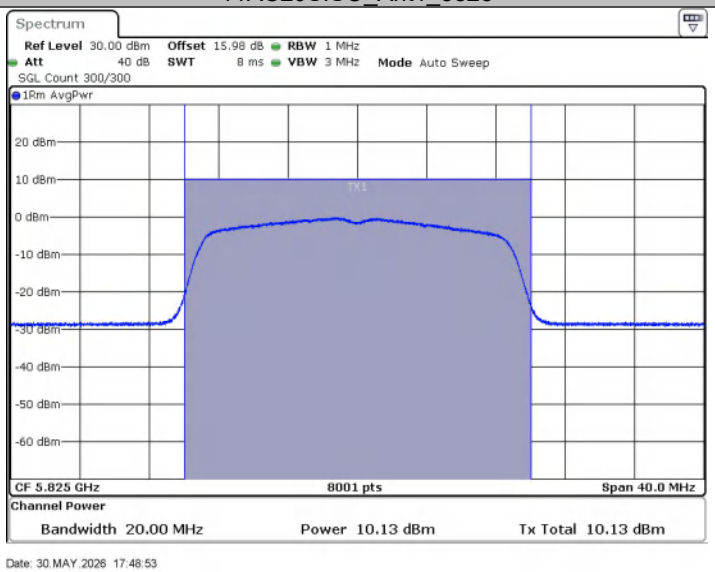

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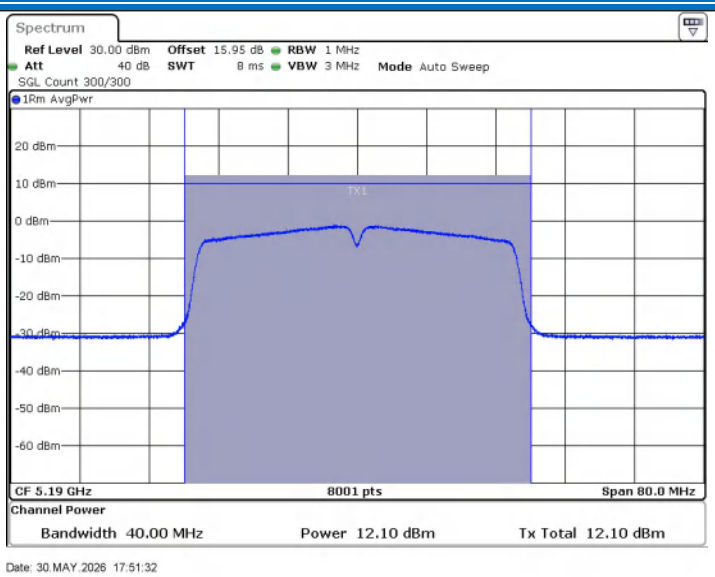

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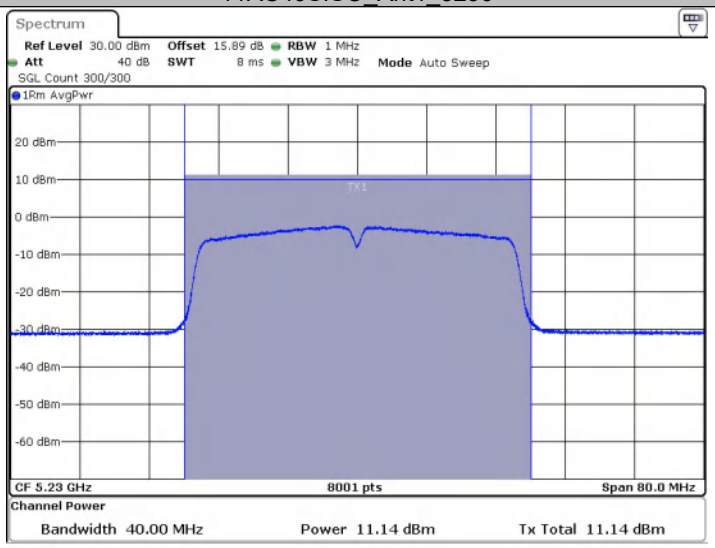

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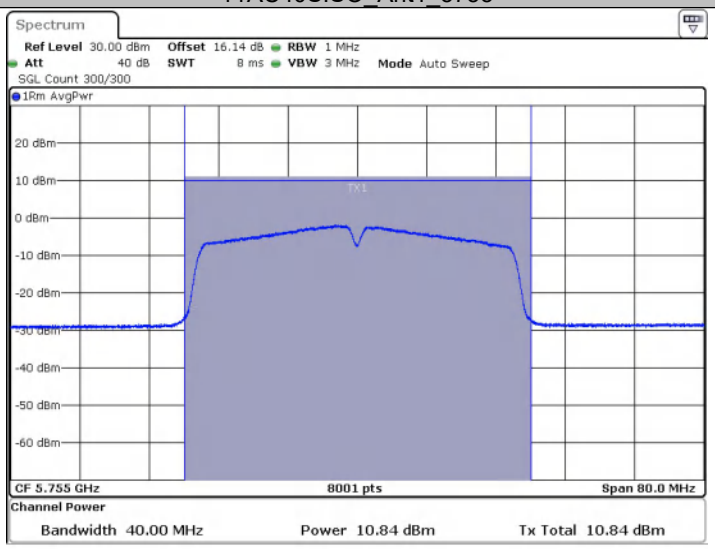

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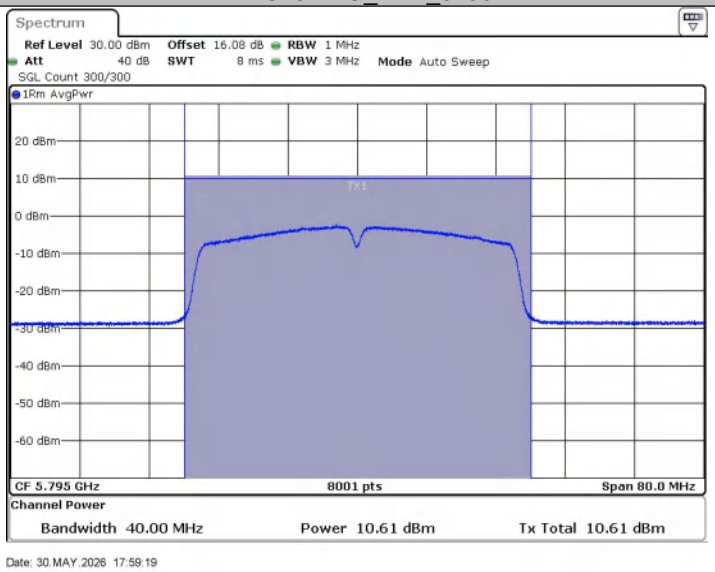


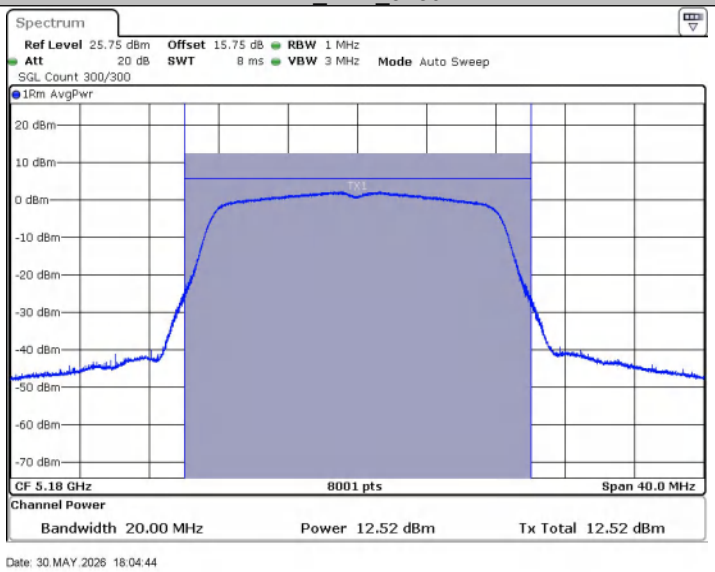
Remark:
Av.Power=Meas.Level+10 log (1/duty cycle)
E.i.r.p=Av.Power+G,
G = antenna gain in dBi.

ANT2

Measurement Data

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	12.52	≤23.98	PASS
		5200	11.92	≤23.98	PASS
		5240	11.09	≤23.98	PASS
		5745	10.60	≤30.00	PASS
		5785	10.67	≤30.00	PASS
		5825	10.22	≤30.00	PASS
11N20SISO	Ant2	5180	12.42	≤23.98	PASS
		5200	11.84	≤23.98	PASS
		5240	11.17	≤23.98	PASS
		5745	10.43	≤30.00	PASS
		5785	10.52	≤30.00	PASS
		5825	10.10	≤30.00	PASS
11N40SISO	Ant2	5190	12.20	≤23.98	PASS
		5230	11.20	≤23.98	PASS
		5755	10.57	≤30.00	PASS
		5795	10.62	≤30.00	PASS
11AC20SISO	Ant2	5180	12.27	≤23.98	PASS
		5200	11.72	≤23.98	PASS
		5240	10.95	≤23.98	PASS
		5745	10.41	≤30.00	PASS
		5785	10.42	≤30.00	PASS
		5825	10.21	≤30.00	PASS
11AC40SISO	Ant2	5190	12.18	≤23.98	PASS
		5230	11.04	≤23.98	PASS
		5755	10.55	≤30.00	PASS
		5795	11.60	≤30.00	PASS

11A_Ant2_5180



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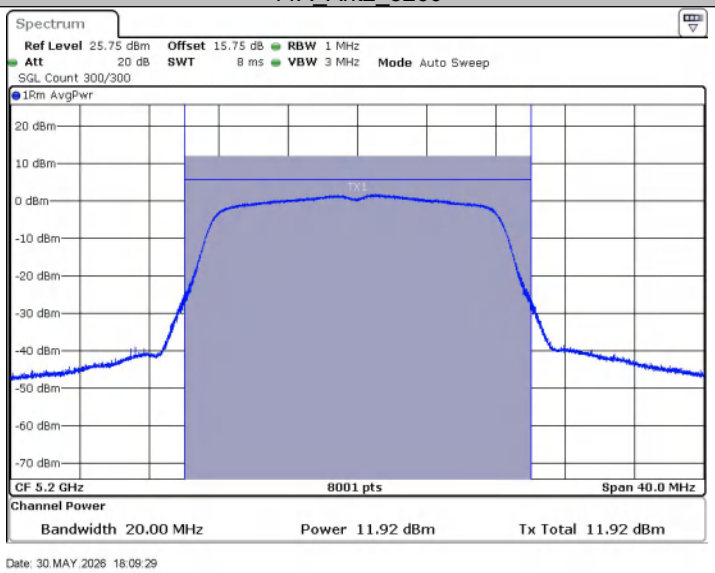

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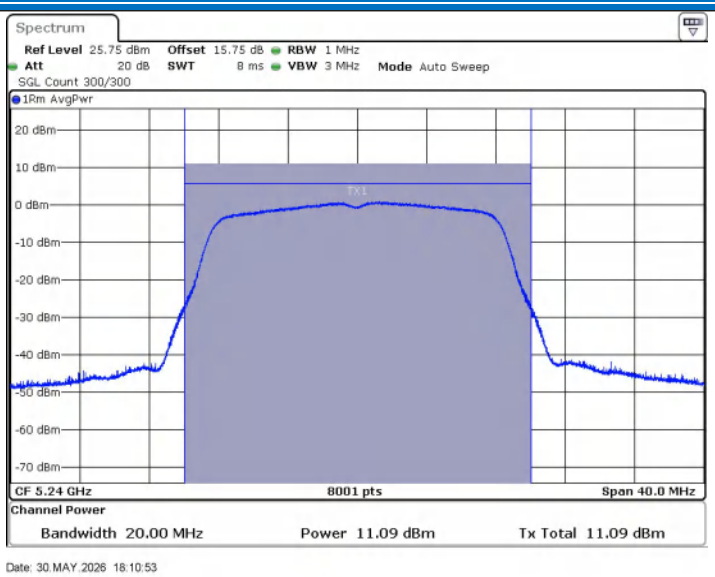

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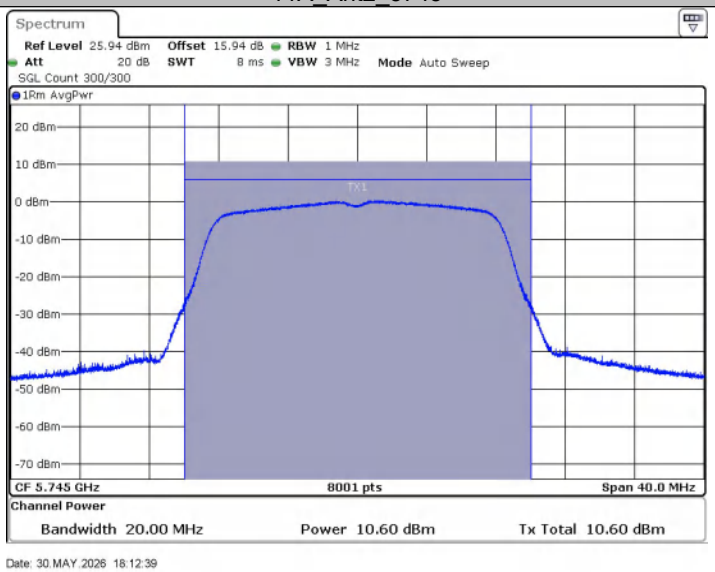
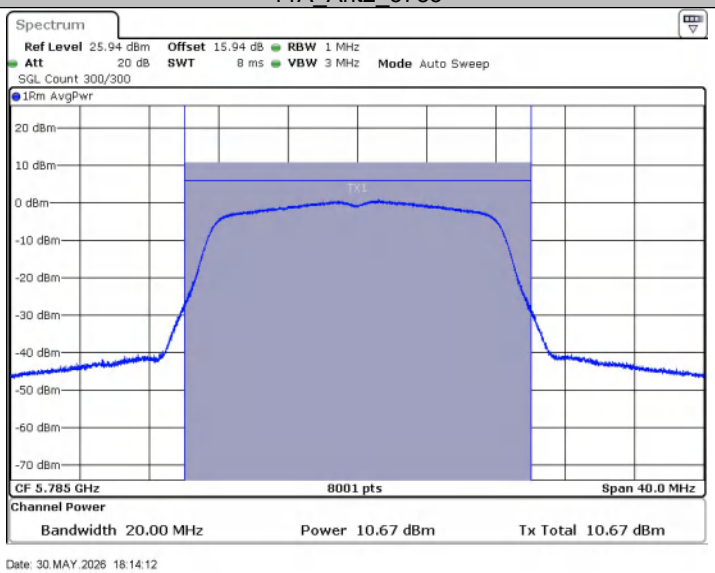
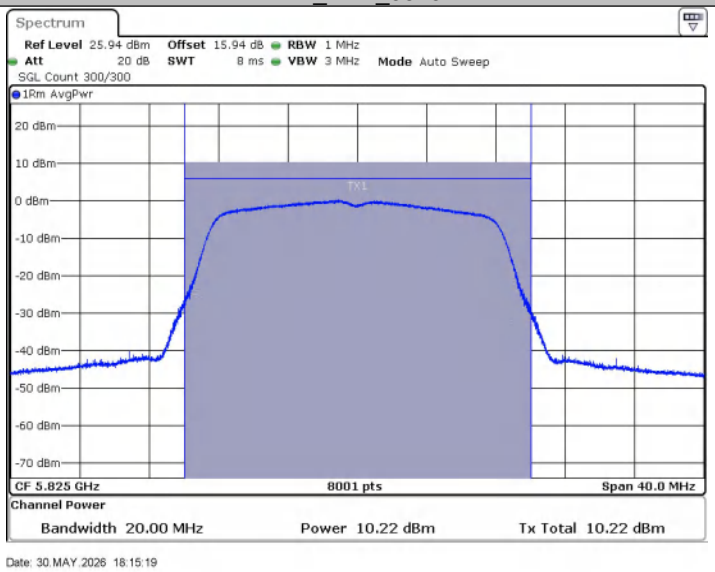


11A_Ant2_5785



11A_Ant2_5825



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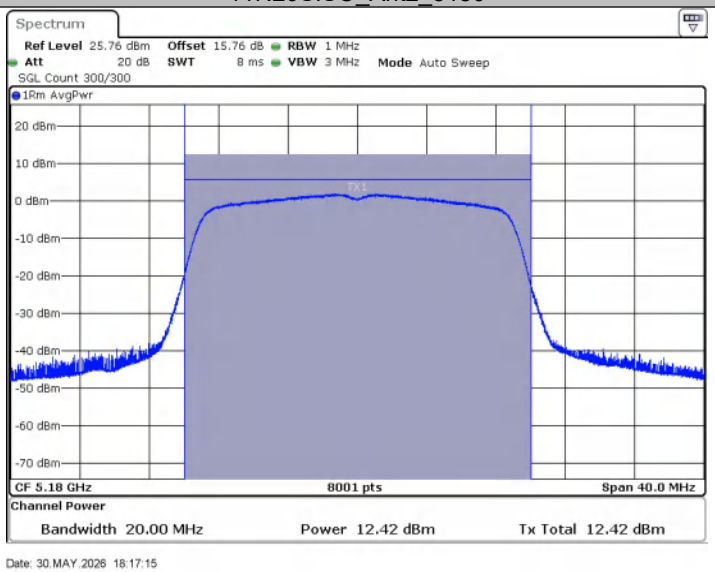

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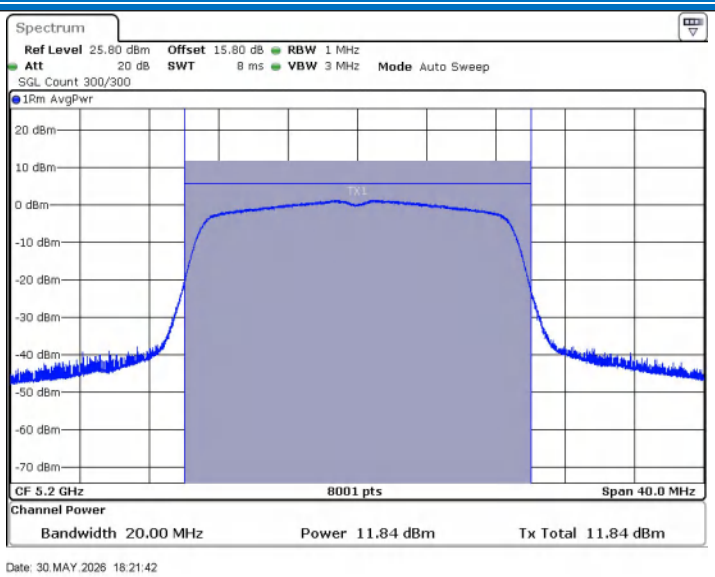

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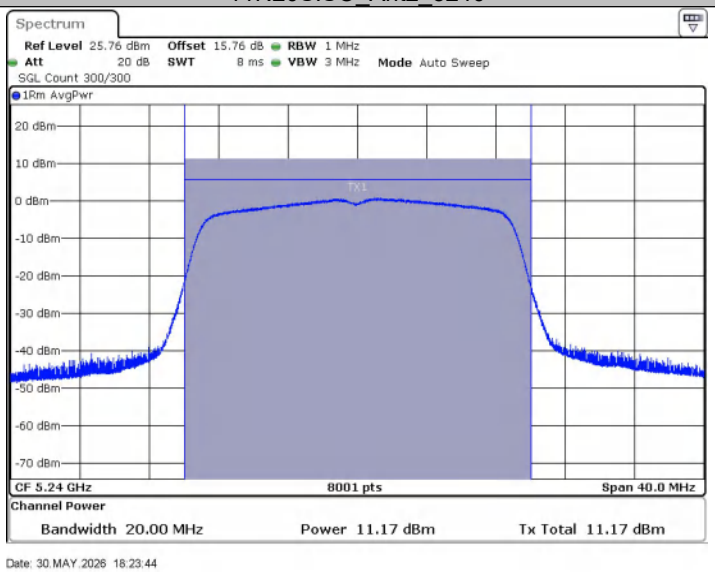

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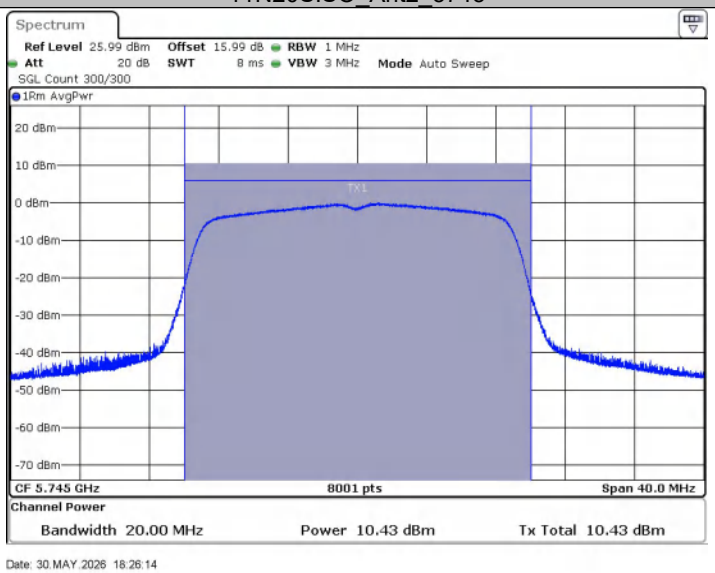

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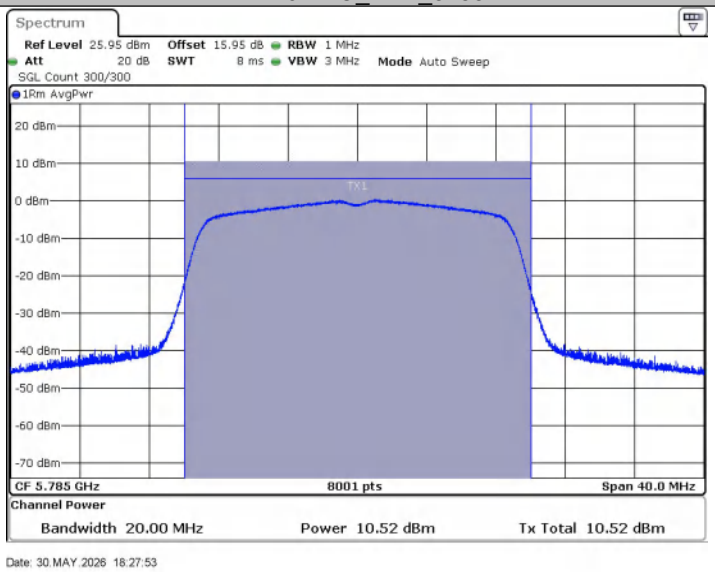
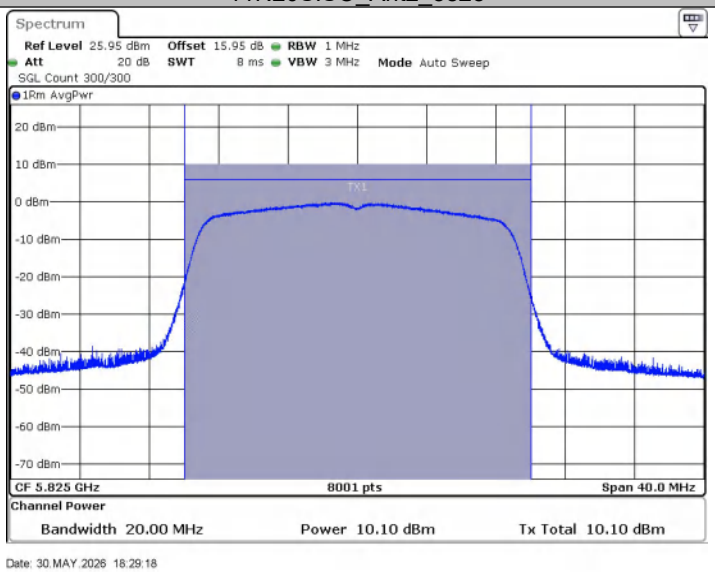


11N20SISO_Ant2_5825



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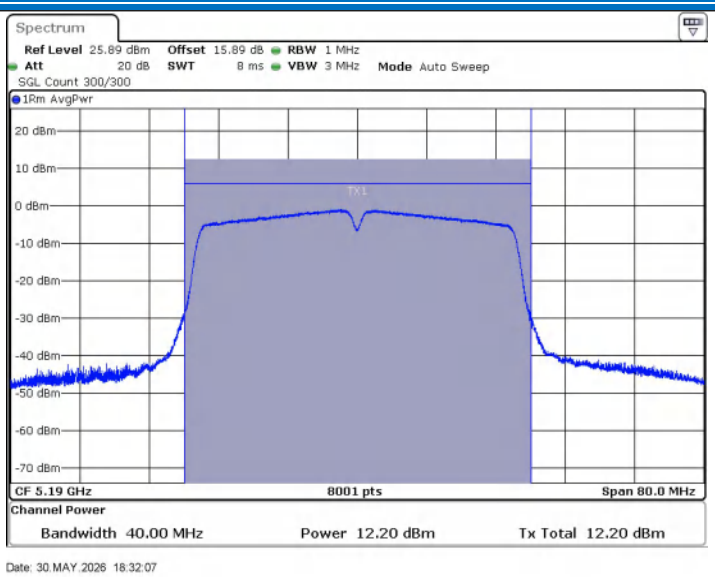

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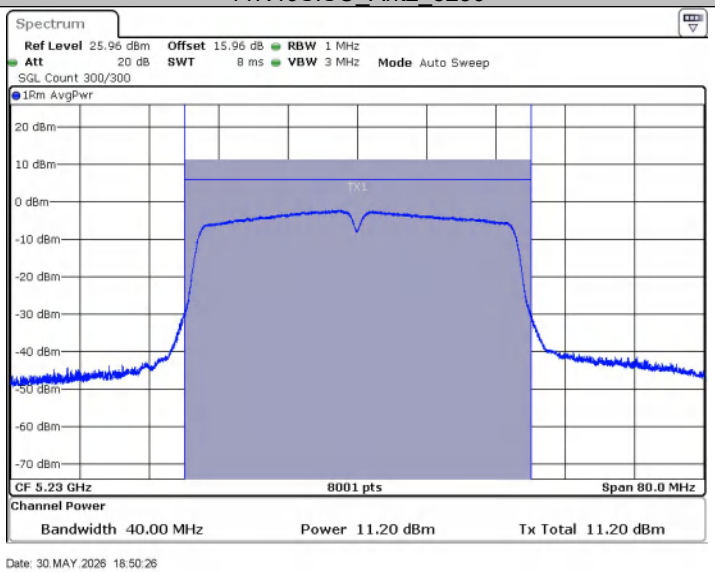
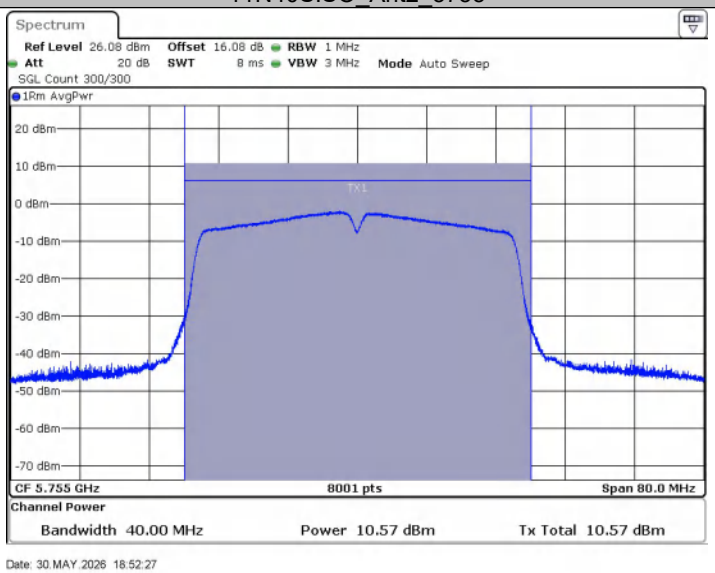
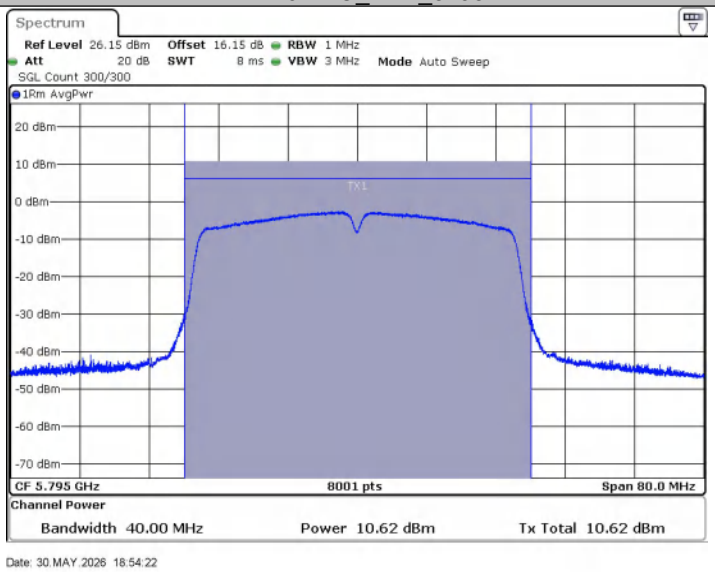


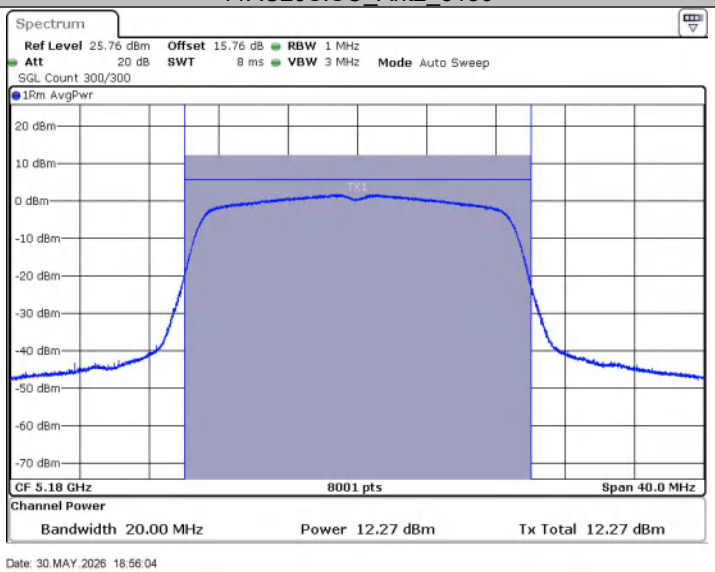
11N40SISO_Ant2_5755



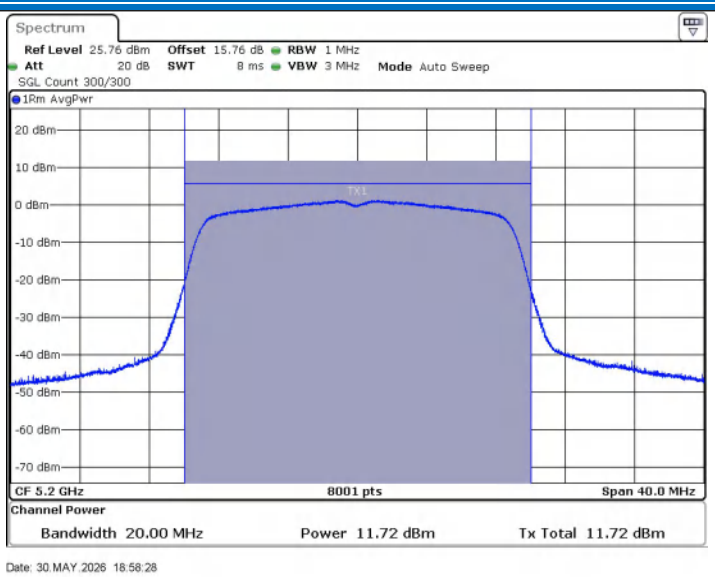
11N40SISO_Ant2_5795



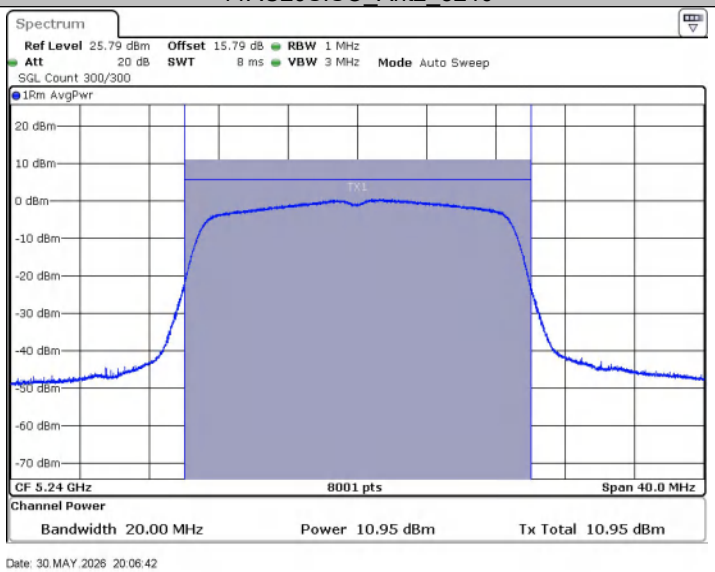
11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



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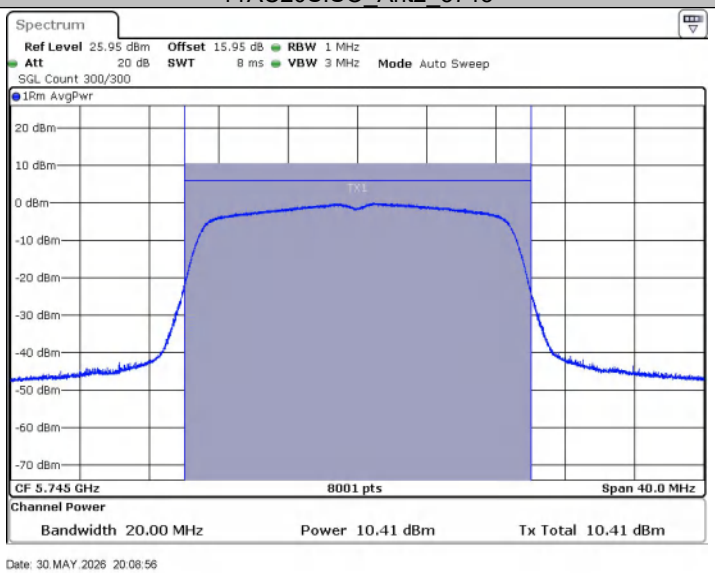

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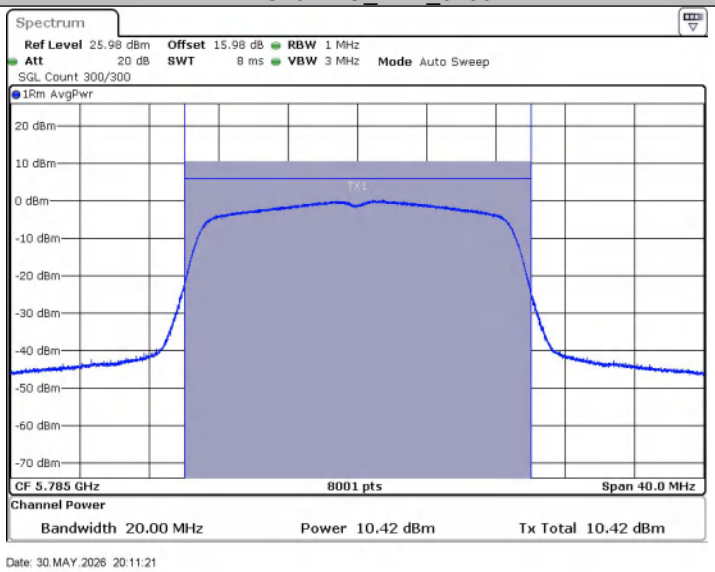

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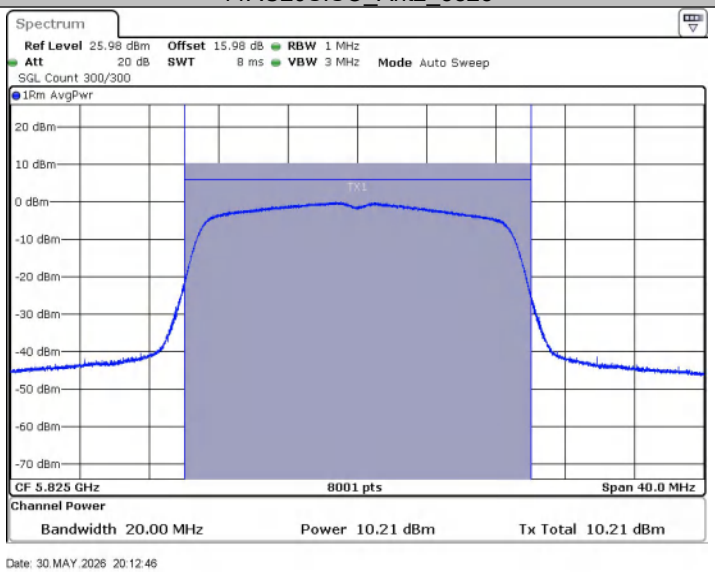

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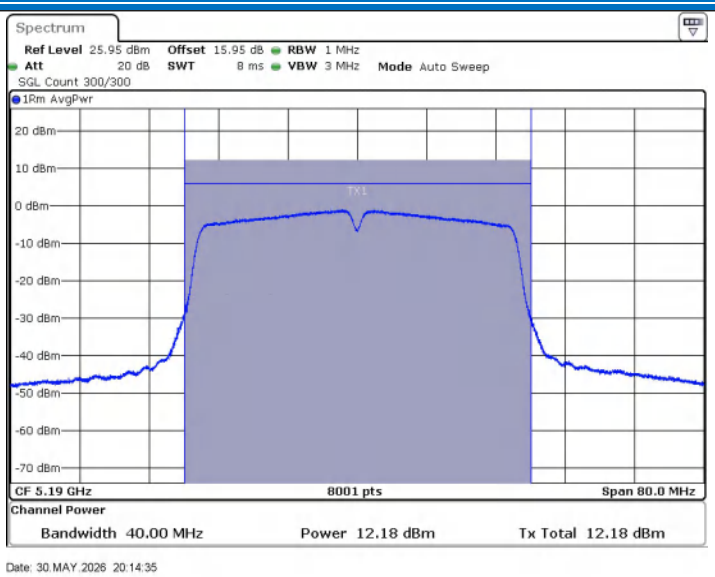
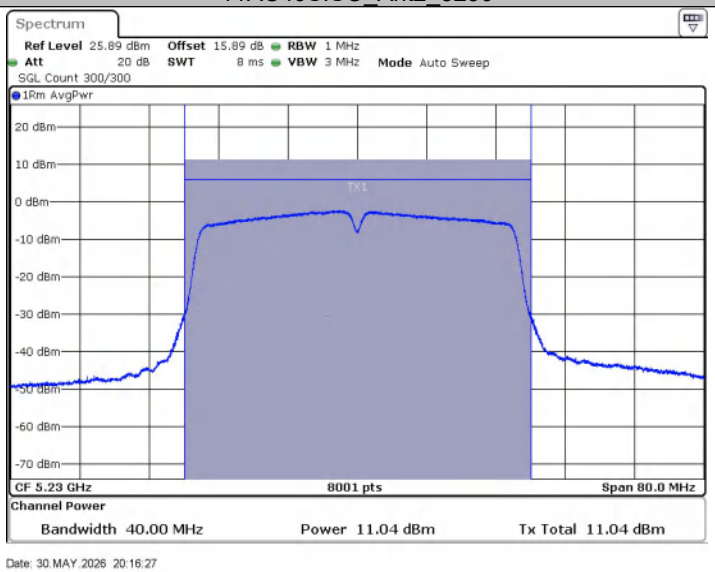
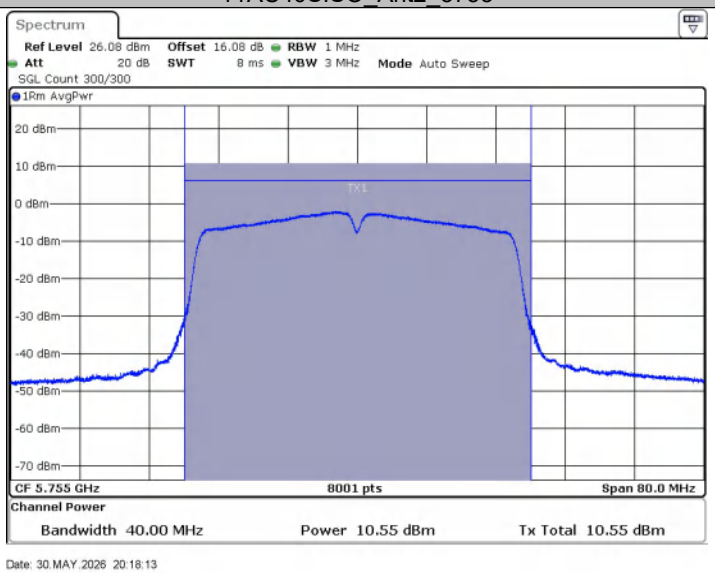


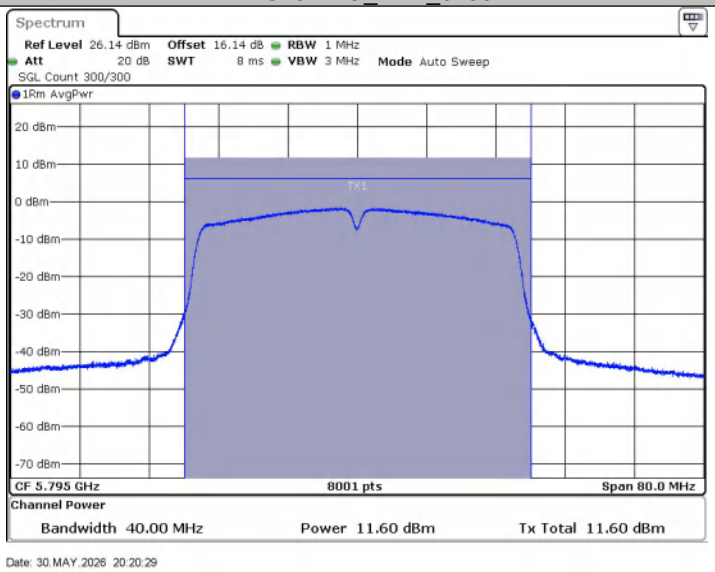
11AC40SISO_Ant2_5230



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Remark:
Av.Power=Meas.Level+10 log (1/duty cycle)
E.i.r.p=Av.Power+G,
G = antenna gain in dBi.

ANT1+ANT2

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11N20MIMO	Ant1+Ant2	5180	15.41	≤23.98	PASS
		5200	14.84	≤23.98	PASS
		5240	14.11	≤23.98	PASS
		5745	13.57	≤30.00	PASS
		5785	13.54	≤30.00	PASS
		5825	13.09	≤30.00	PASS
11N40MIMO	Ant1+Ant2	5190	15.12	≤23.98	PASS
		5230	14.20	≤23.98	PASS
		5755	13.66	≤30.00	PASS
		5795	13.63	≤30.00	PASS
11AC20MIMO	Ant1+Ant2	5180	15.37	≤23.98	PASS
		5200	14.82	≤23.98	PASS
		5240	14.02	≤23.98	PASS
		5745	13.49	≤30.00	PASS
		5785	13.54	≤30.00	PASS
		5825	13.18	≤30.00	PASS
11AC40MIMO	Ant1+Ant2	5190	15.15	≤23.98	PASS
		5230	14.10	≤23.98	PASS
		5755	13.71	≤30.00	PASS
		5795	14.14	≤30.00	PASS

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 ≥3*RBW. Detector = Peak. Trace mode = max hold.

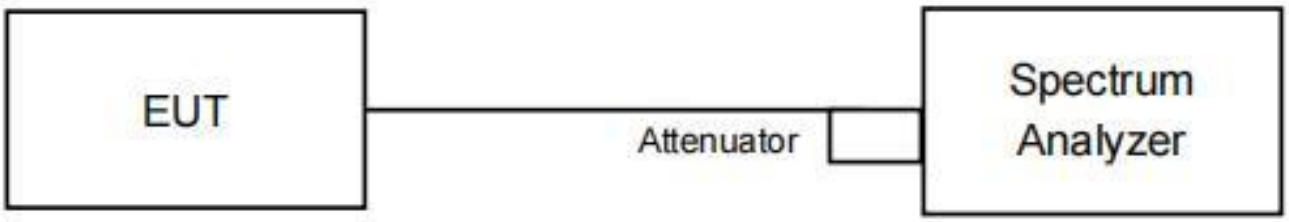
For 5725-5850MHz:

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 ≥3*RBW. Detector = Peak. Trace mode = max hold.

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm 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



Ant1

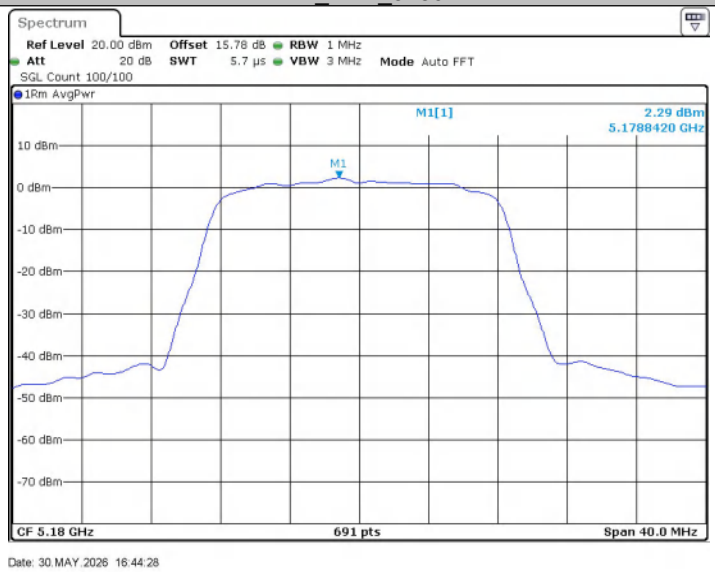
Result Table

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	2.29	≤11.00	PASS
	5200	1.36	≤11.00	PASS
	5240	2.08	≤11.00	PASS
	5745	-2.72	≤30.00	PASS
	5785	-2.32	≤30.00	PASS
	5825	-2.33	≤30.00	PASS
11N20SISO	5180	1.56	≤11.00	PASS
	5200	1.47	≤11.00	PASS
	5240	0.35	≤11.00	PASS
	5745	-2.61	≤30.00	PASS
	5785	-2.77	≤30.00	PASS
	5825	-3.04	≤30.00	PASS
11N40SISO	5190	-1.21	≤11.00	PASS
	5230	-2.02	≤11.00	PASS
	5755	-5.06	≤30.00	PASS
	5795	-5.78	≤30.00	PASS
11AC20SISO	5180	1.60	≤11.00	PASS
	5200	1.59	≤11.00	PASS
	5240	0.78	≤11.00	PASS
	5745	-2.86	≤30.00	PASS
	5785	-2.45	≤30.00	PASS
	5825	-3.01	≤30.00	PASS
11AC40SISO	5190	-1.23	≤11.00	PASS
	5230	-2.33	≤11.00	PASS
	5755	-4.74	≤30.00	PASS
	5795	-5.41	≤30.00	PASS

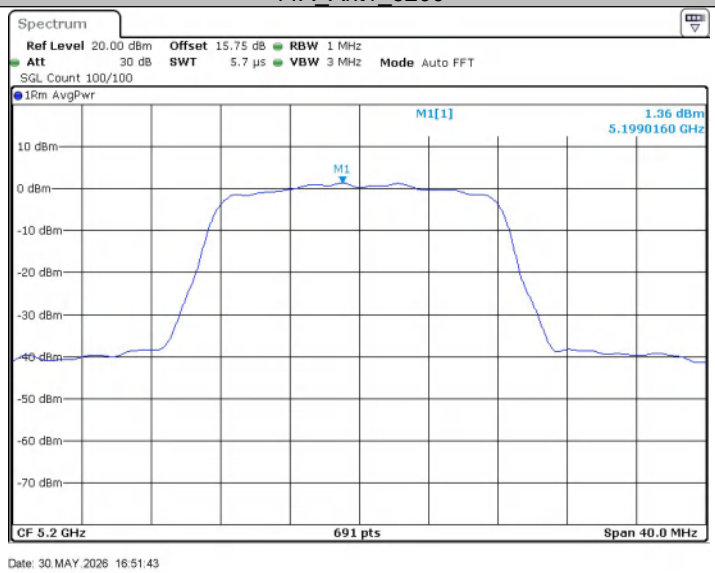
Remark:

PSD = Meas PSD + Duty Cycle Factor

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240