



RADIO TEST REPORT

Applicant	:	Tonly Technology Co., Ltd.
Address of Applicant	:	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, P.R. China
Manufacturer	:	Tonly Technology Co., Ltd.
Address of Manufacturer	:	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, P.R. China
Equipment under Test	:	Muse Home Link
Model No.	:	HHL-002
FCC ID	:	ZVAOH000040
Test Standard(s)	:	47 CFR Part 15 Subpart E, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01
Report No.	:	DDT-RE26062423-2E03
Issue Date	:	2026/09/21
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

Applicant	:	Tonly Technology Co., Ltd.
Address of Applicant	:	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, P.R. China
Equipment under Test	:	Muse Home Link
Model No.	:	HHL-002
Manufacturer	:	Tonly Technology Co., Ltd.
Address of Manufacturer	:	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, P.R. China

Test Standard Used:
47 CFR Part 15 Subpart E,
ANSI C63.10-2020+Cor.1-2023,
RSS-247 Issue 4 July 24, 2025,
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021),
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024,
789033 D02 General U-NII Test Procedures New Rules v02r01,
662911 D01 Multiple Transmitter Output v02r01

We Declare:
The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE26062423-2E03		
Date of Receipt:	2026/06/24	Date of Test:	2026/06/24 - 2026/07/17

Created: Bobo Chen	Reviewed: Tiger Mo	Approved: Damon Hu
		
2026/07/17	2026/09/21	2026/09/21

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/09/21	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth	47 CFR Part 15 15.407 (e)	/	Pass
2	Output Power	47 CFR Part 15 15.407 (a)	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.407 (a)	/	Pass
4	Frequency Stability Measurement	47 CFR Part 15 15.407 (g)	/	Pass
5	Radiated Emission	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205	/	Pass
7	Antenna Requirement	47 CFR Part 15.203	/	Pass
8	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h)	/	Pass
9	Power Line Conducted Emissions	47 CFR Part 15 15.207(a)	/	Pass

Note 1: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.

Note 2: There are two versions of this sample, distinguished by two types of copper foil on the shielding cover: non-open-hole version and open-hole version. Engineering evaluation shows this difference exerts no influence on test results; hence, non-open-hole version is selected as the representative sample for testing.

2. General Test Information

2.1. Description of EUT

EUT Name	: Muse Home Link
Model Number	: HHL-002
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V/0.5A from USB port or external AC adapter
Antenna Type	: IFA
Max Antenna Gain(dBi)	: 3.46 dBi

Radio Technology	: IEEE 802.11a/n/ac/ax
Operation frequency	: U-NII-1: 5180 MHz to 5240 MHz U-NII-2A: 5260 MHz to 5320 MHz U-NII-2C: 5500 MHz to 5720 MHz U-NII-3: 5745 MHz to 5825 MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)

Channel information							
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)				IEEE 802.11n (HT40)			
UNII-1							
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	44	5220	38	5190	46	5230
40	5200	48	5240	/	/	/	/
UNII-2A							
52	5260	60	5300	54	5270	62	5310
56	5280	64	5320	/	/	/	/
UNII-2C							
100	5500	124	5620	102	5510	126	5630
104	5520	128	5640	110	5550	134	5670
108	5540	132	5660	118	5590	142	5710 (Straddle)
112	5560	136	5680	/	/	/	/
116	5580	140	5700	/	/	/	/
120	5600	144	5720 (Straddle)	/	/	/	/
UNII-3							
149	5745	161	5805	151	5755	159	5795

153	5765	165	5825	/	/	/	/
157	5785	/	/	/	/	/	/
Note: Band 5600-5650MHz will be disabled when shipped to Canada.							

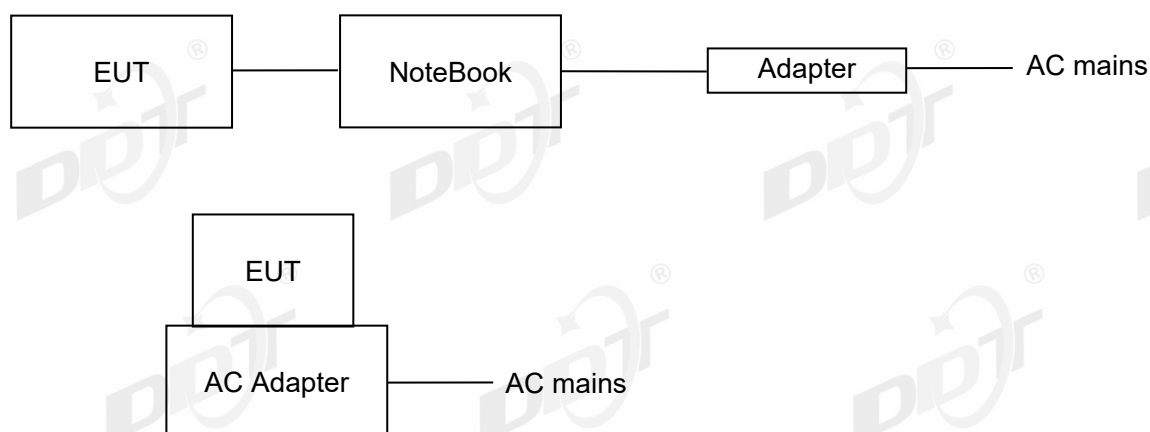
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
USB-C to USB-A converter	N/A	N/A	N/A

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: EspRFTestTool_v5.71_Manual.exe .exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 2 dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency				
Tested mode	Tx Power Setting	Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
	ANT1			
IEEE 802.11a	8	6	LCH: CH36	5180
	8	6	MCH: CH40	5200
	8	6	HCH: CH48	5240
	8	6	LCH: CH52	5260
	8	6	MCH: CH56	5280
	8	6	HCH: CH64	5320
	8	6	LCH: CH100	5500
	8	6	MCH: CH116	5580
	8	6	HCH: CH140	5700
	8	6	Straddle: CH144	5720
	0	6	LCH: CH149	5745
	0	6	MCH: CH157	5785
	0	6	HCH: CH165	5825
IEEE 802.11n HT20	10	MCS 0	LCH: CH36	5180
	10	MCS 0	MCH: CH40	5200
	10	MCS 0	HCH: CH48	5240
	10	MCS 0	LCH: CH52	5260
	10	MCS 0	MCH: CH56	5280
	10	MCS 0	HCH: CH64	5320
	10	MCS 0	LCH: CH100	5500
	10	MCS 0	MCH: CH116	5580
	10	MCS 0	HCH: CH140	5700
	10	MCS 0	Straddle: CH144	5720
	0	MCS 0	LCH: CH149	5745
	0	MCS 0	MCH: CH157	5785
	0	MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	20	MCS 0	LCH: CH38	5190
	20	MCS 0	HCH: CH46	5230
	20	MCS 0	LCH: CH54	5270
	20	MCS 0	HCH: CH62	5310
	20	MCS 0	LCH: CH102	5510
	20	MCS 0	MCH: CH110	5550
	20	MCS 0	HCH: CH134	5670
	20	MCS 0	Straddle: CH142	5710
	0	MCS 0	LCH: CH151	5755
	0	MCS 0	HCH: CH159	5795

IEEE 802.11ac VHT20	16	MCS 0	LCH: CH36	5180
	16	MCS 0	MCH: CH40	5200
	16	MCS 0	HCH: CH48	5240
	16	MCS 0	LCH: CH52	5260
	16	MCS 0	MCH: CH56	5280
	16	MCS 0	HCH: CH64	5320
	16	MCS 0	LCH: CH100	5500
	16	MCS 0	MCH: CH116	5580
	16	MCS 0	HCH: CH140	5700
	16	MCS 0	Straddle: CH144	5720
	0	MCS 0	LCH: CH149	5745
	0	MCS 0	MCH: CH157	5785
	0	MCS 0	HCH: CH165	5825
IEEE 802.11ax HE20	16	MCS 0	LCH: CH36	5180
	16	MCS 0	MCH: CH40	5200
	16	MCS 0	HCH: CH48	5240
	16	MCS 0	LCH: CH52	5260
	16	MCS 0	MCH: CH56	5280
	16	MCS 0	HCH: CH64	5320
	16	MCS 0	LCH: CH100	5500
	16	MCS 0	MCH: CH116	5580
	16	MCS 0	HCH: CH140	5700
	16	MCS 0	Straddle: CH144	5720
	0	MCS 0	LCH: CH149	5745
	0	MCS 0	MCH: CH157	5785
	0	MCS 0	HCH: CH165	5825
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

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

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

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

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

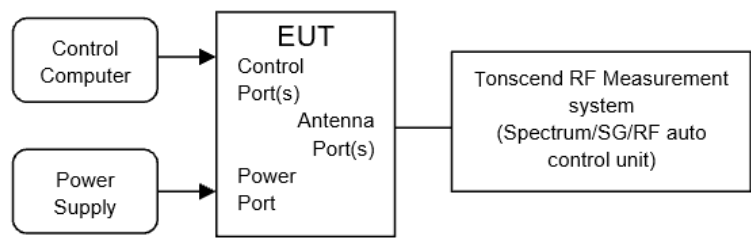
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	1.21 dB ($9 \text{ kHz} \leq f < 7 \text{ GHz}$);
	3.31 dB ($7 \text{ GHz} \leq f < 40 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	5.5×10^{-8}
Time	0.11%
Temperature	0.3 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.28 dB (Antenna Polarize: V)
	4.14 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
	4.58 dB (18 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.32dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 1#)				
SIGNAL ANALYZER	R&S	FSQ26	101272	2027/02/27
Wideband Radio Communication Tester	R&S	CMW500	117491	2027/02/27
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2027/02/27
MXG Vector Signal Generator	Agilent	N5182A	MY47420658	2027/02/27
RF Control Unit	Tonscend	JS0806-2	158060010	2027/02/27
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2027/02/27
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	For FCC: 5470 - 5725
	---	For IC: 5470 - 5600 5650 - 5725

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1% of the emission bandwidth.
VBW	> RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

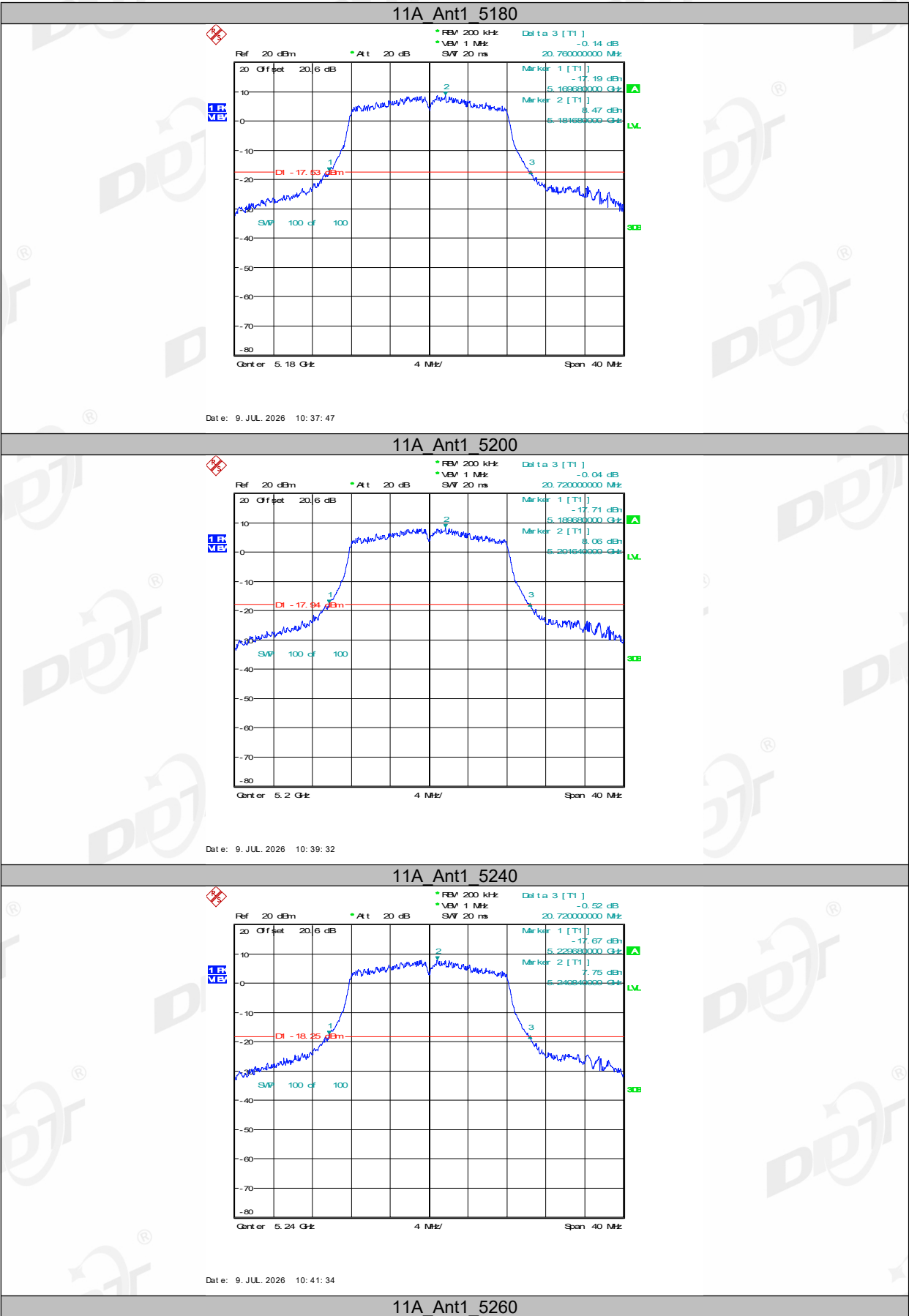
4.4. Test result

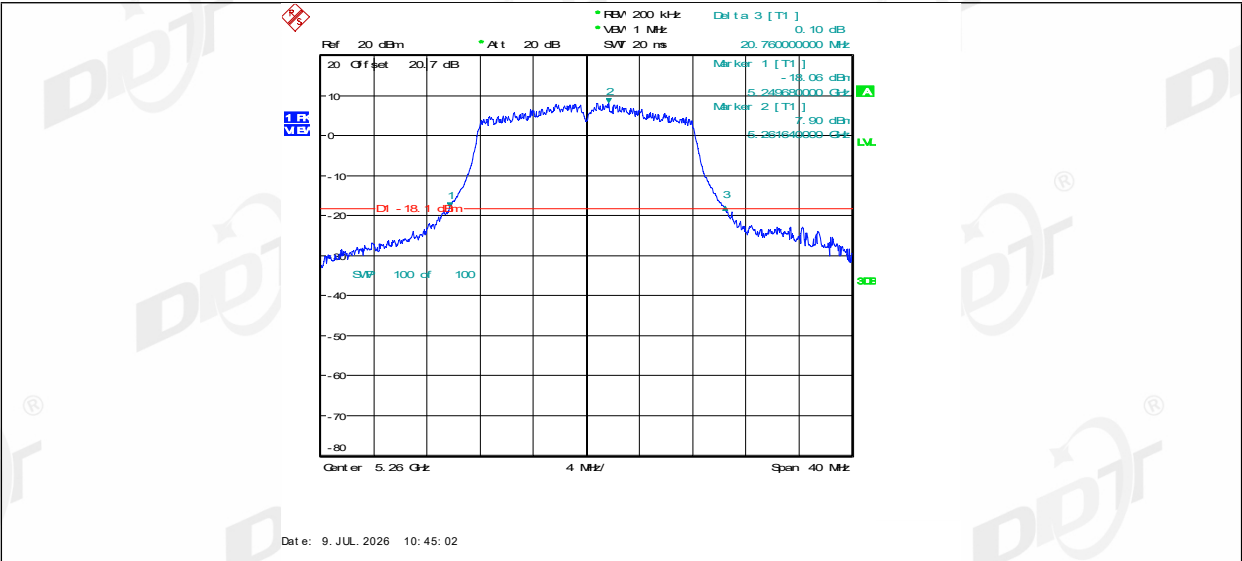
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	27.7-28.7℃,34.5-35.6%RH	Test Date:	2026.6.29-2026.7.9
Test Power Supply:	DC 5V	Sample Number:	S26062423-007

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.76	5169.68	5190.44	---	---
		5200	20.72	5189.68	5210.40	---	---
		5240	20.72	5229.68	5250.40	---	---
		5260	20.76	5249.68	5270.44	---	---
		5280	20.76	5269.68	5290.44	---	---
		5320	20.64	5309.68	5330.32	---	---
		5500	20.60	5489.68	5510.28	---	---
		5580	20.60	5569.72	5590.32	---	---
		5700	20.56	5689.72	5710.28	---	---
		5720	20.64	5709.68	5730.32	---	---
		5720 UNII-2C	15.32	5709.68	5725	---	---
		5720 UNII-3	5.32	5725	5730.32	---	---
		5745	21.32	5734.32	5755.64	---	---
		5785	20.92	5774.72	5795.64	---	---
11N20SISO	Ant1	5825	21.08	5814.60	5835.68	---	---
		5180	21.92	5168.88	5190.80	---	---
		5200	21.84	5188.92	5210.76	---	---
		5240	21.72	5229.00	5250.72	---	---
		5260	21.76	5249.00	5270.76	---	---
		5280	21.92	5268.84	5290.76	---	---
		5320	21.76	5309.00	5330.76	---	---
		5500	21.76	5488.96	5510.72	---	---
		5580	21.72	5569.04	5590.76	---	---
		5700	21.60	5689.08	5710.68	---	---
		5720	21.68	5709.08	5730.76	---	---
		5720 UNII-2C	15.92	5709.08	5725	---	---
		5720 UNII-3	5.76	5725	5730.76	---	---
		5745	22.32	5733.72	5756.04	---	---
11N40SISO	Ant1	5785	22.68	5773.76	5796.44	---	---
		5825	22.20	5813.84	5836.04	---	---
		5190	41.36	5169.20	5210.56	---	---
		5230	41.44	5209.28	5250.72	---	---
		5270	41.20	5249.52	5290.72	---	---
		5310	43.12	5289.28	5332.40	---	---
		5510	41.76	5489.36	5531.12	---	---
		5550	41.44	5529.36	5570.80	---	---
		5670	41.76	5649.28	5691.04	---	---
		5710	41.76	5689.28	5731.04	---	---
		5710 UNII-2C	35.72	5689.28	5725	---	---
		5710 UNII-3	6.04	5725	5731.04	---	---
		5755	41.76	5734.36	5776.12	---	---
		5795	41.52	5774.52	5816.04	---	---
11AC20SISO	Ant1	5180	21.80	5169.24	5191.04	---	---
		5200	23.16	5188.92	5212.08	---	---
		5240	23.20	5228.88	5252.08	---	---
		5260	22.12	5249.00	5271.12	---	---
		5280	23.24	5268.88	5292.12	---	---
		5320	22.12	5308.96	5331.08	---	---
		5500	22.16	5488.92	5511.08	---	---
		5580	23.16	5568.92	5592.08	---	---
		5700	22.16	5688.92	5711.08	---	---
		5720	22.12	5708.92	5731.04	---	---
		5720 UNII-2C	16.08	5708.92	5725	---	---
		5720 UNII-3	6.04	5725	5731.04	---	---
		5745	31.76	5729.56	5761.32	---	---

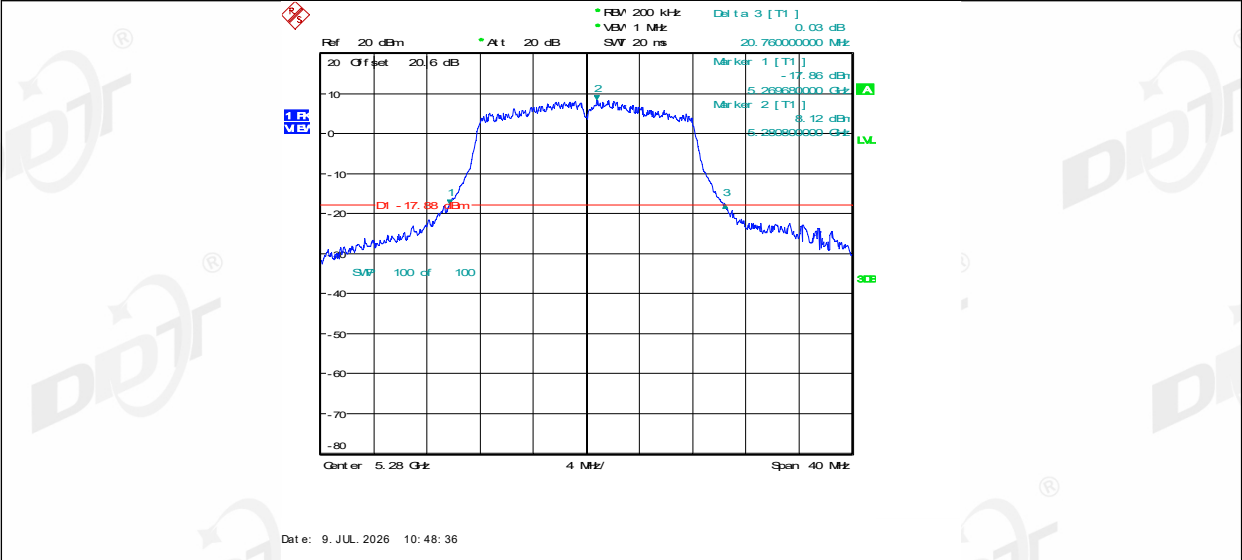
11AX20SIS O	Ant1	5785	32.12	5769.56	5801.68	---	---
		5825	32.68	5809.00	5841.68	---	---
		5180	27.88	5167.08	5194.96	---	---
		5200	22.96	5188.60	5211.56	---	---
		5240	22.52	5228.60	5251.12	---	---
		5260	22.00	5249.12	5271.12	---	---
		5280	22.84	5268.64	5291.48	---	---
		5320	21.80	5309.20	5331.00	---	---
		5500	22.04	5489.08	5511.12	---	---
		5580	22.44	5569.08	5591.52	---	---
		5700	21.92	5689.08	5711.00	---	---
		5720	21.88	5709.16	5731.04	---	---
		5720 UNII-2C	15.84	5709.16	5725	---	---
		5720 UNII-3	6.04	5725	5731.04	---	---
		5745	32.80	5728.96	5761.76	---	---
		5785	32.80	5769.00	5801.80	---	---
		5825	32.60	5808.96	5841.56	---	---

4.5. Test graphs

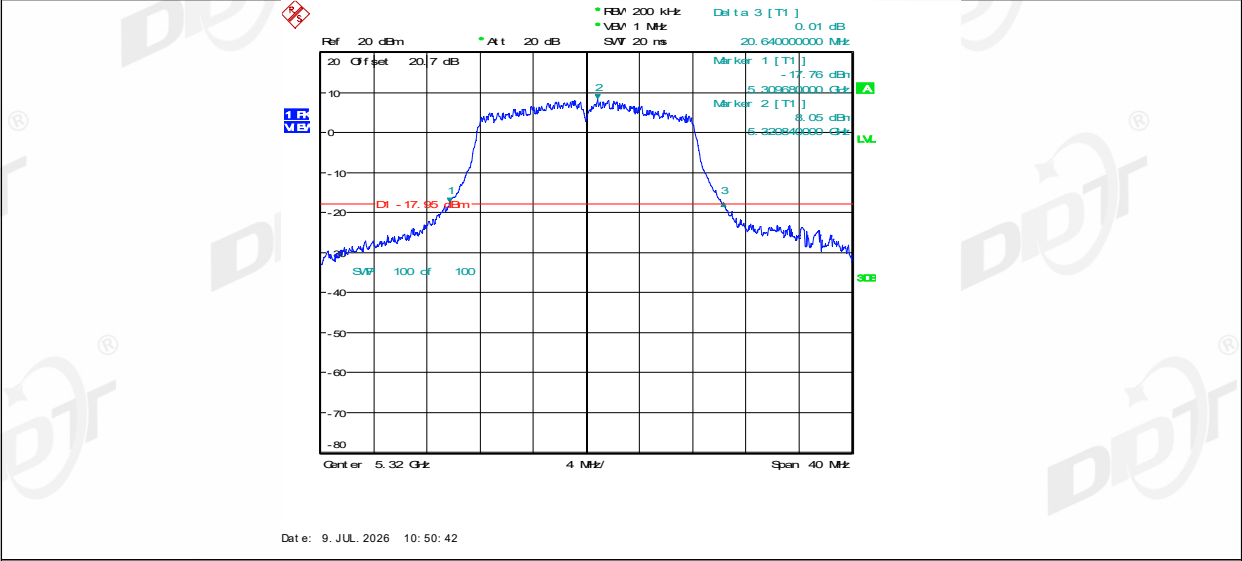




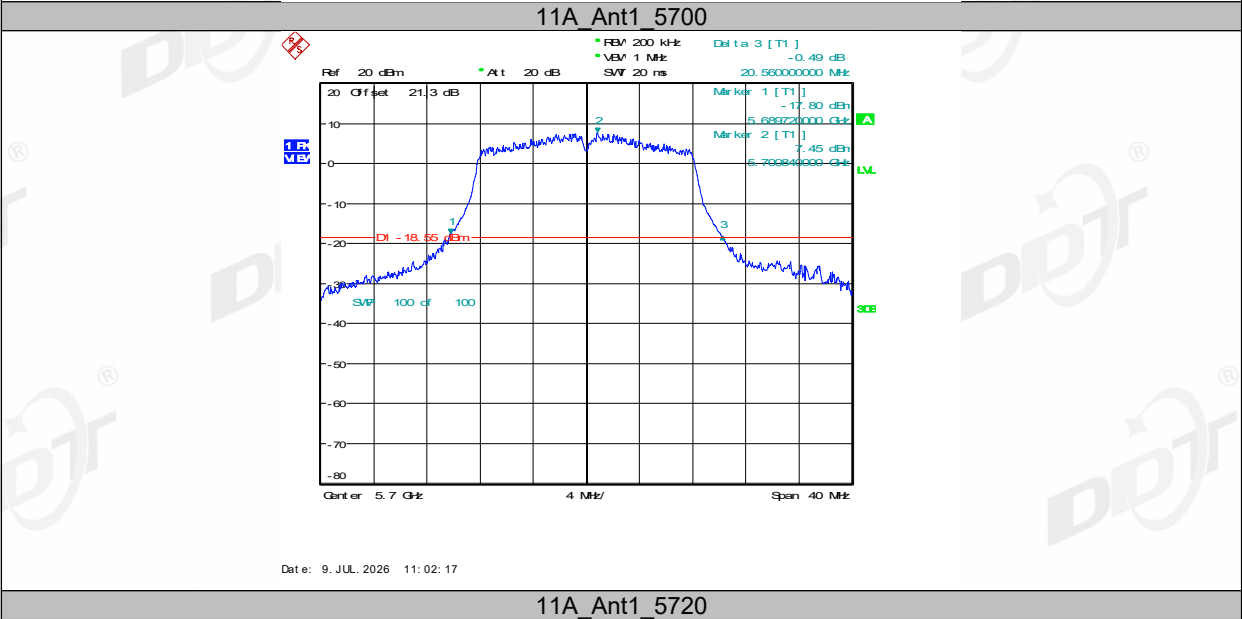
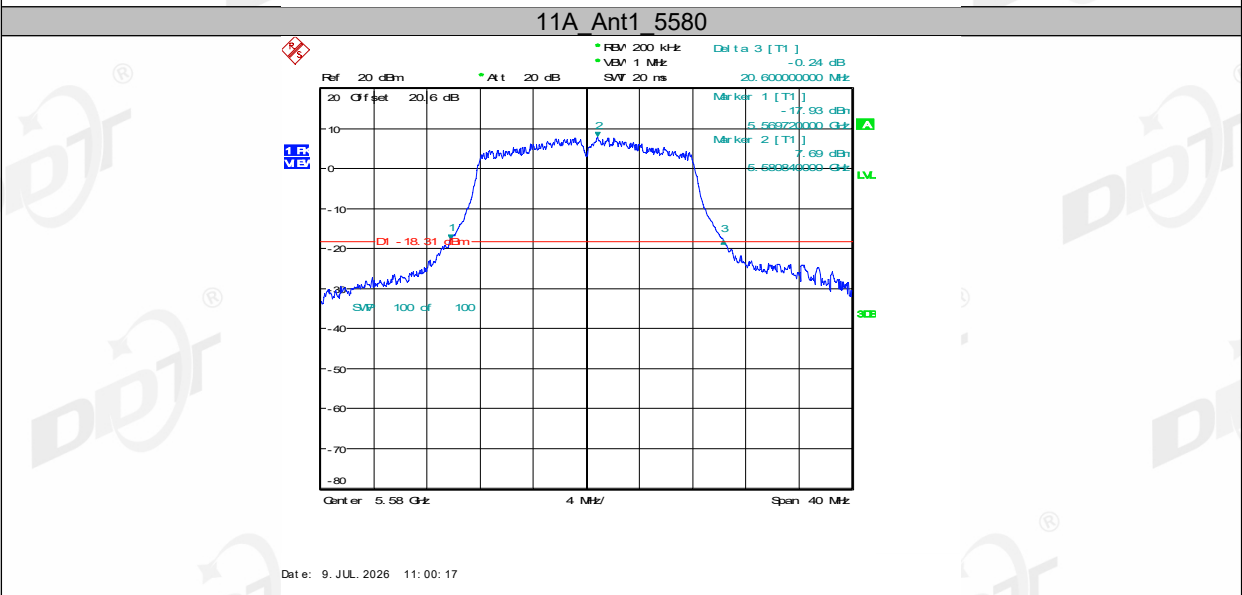
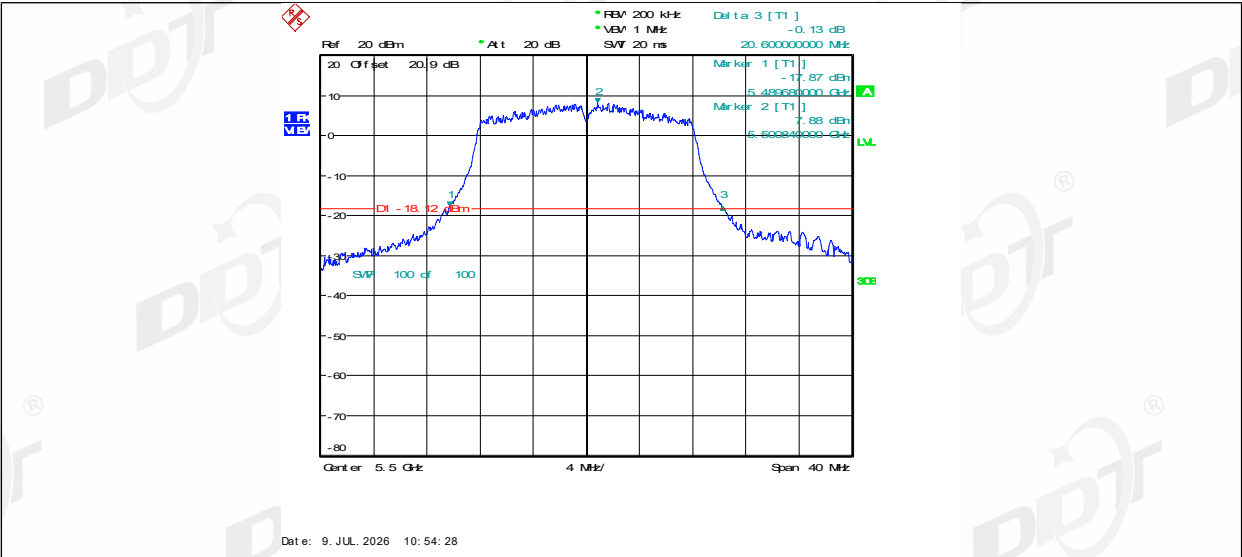
11A_Ant1_5280

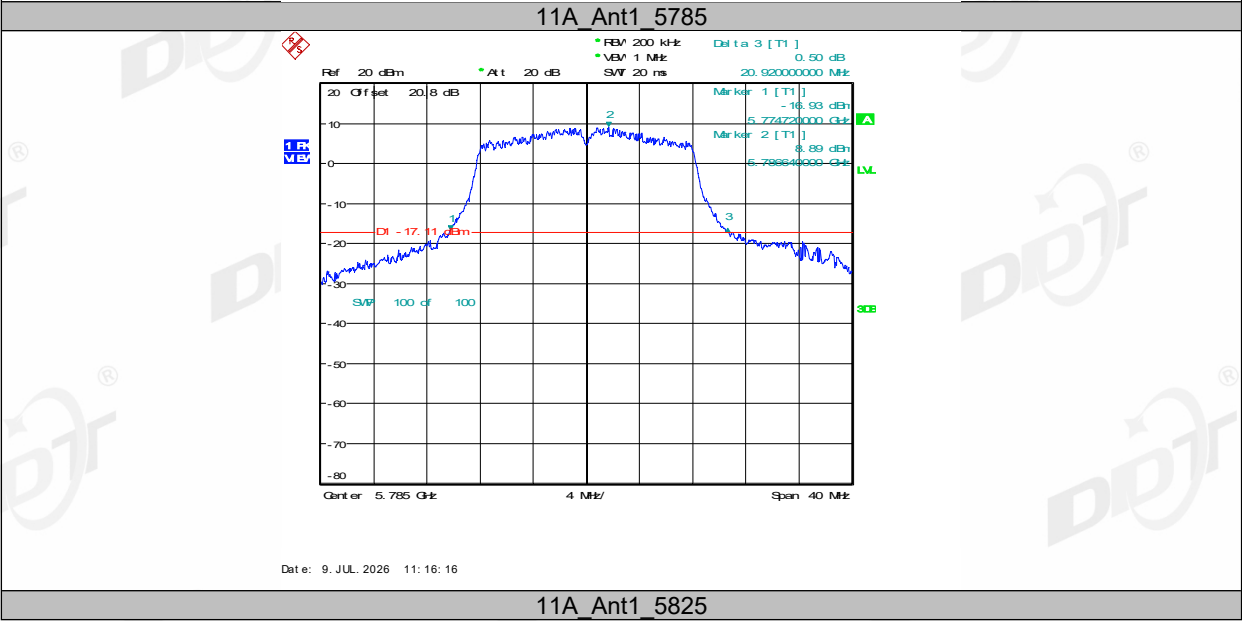
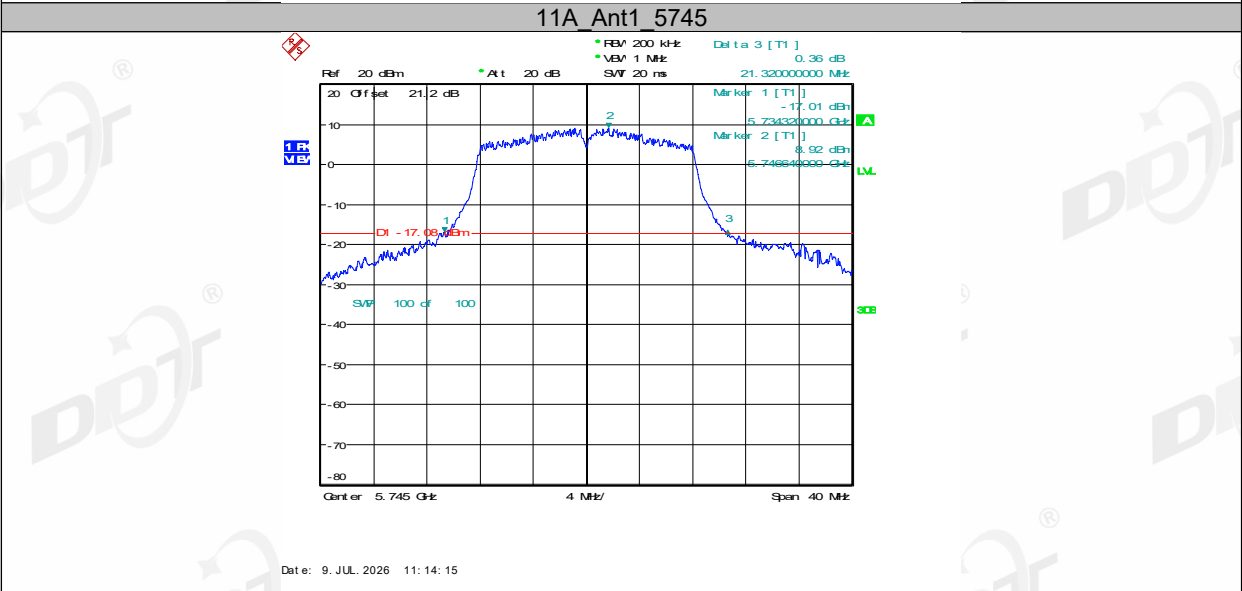
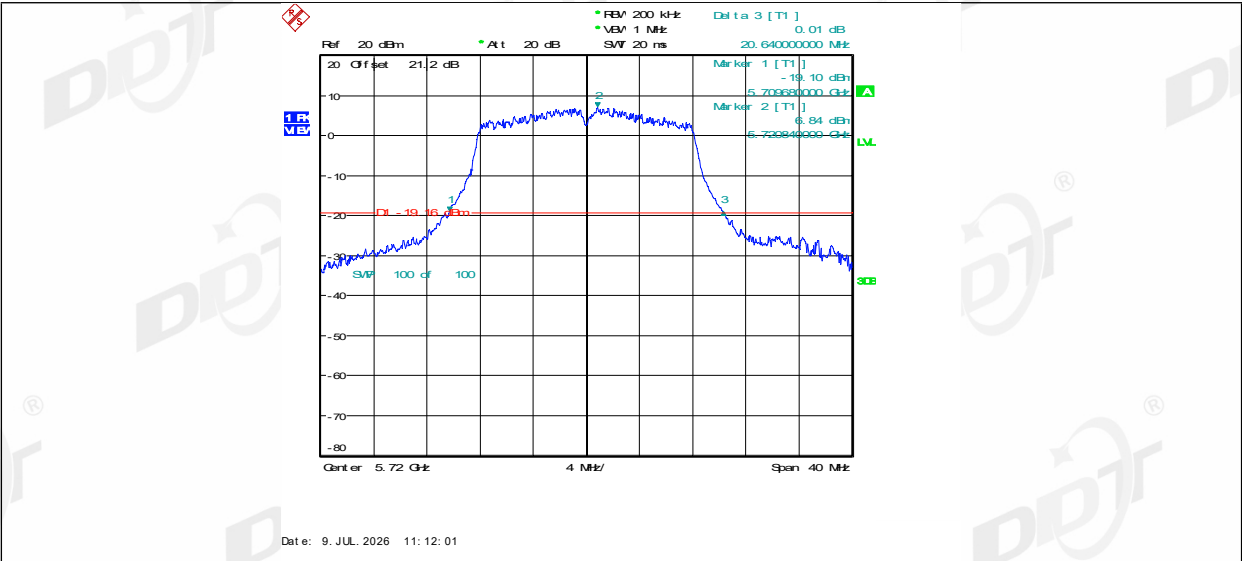


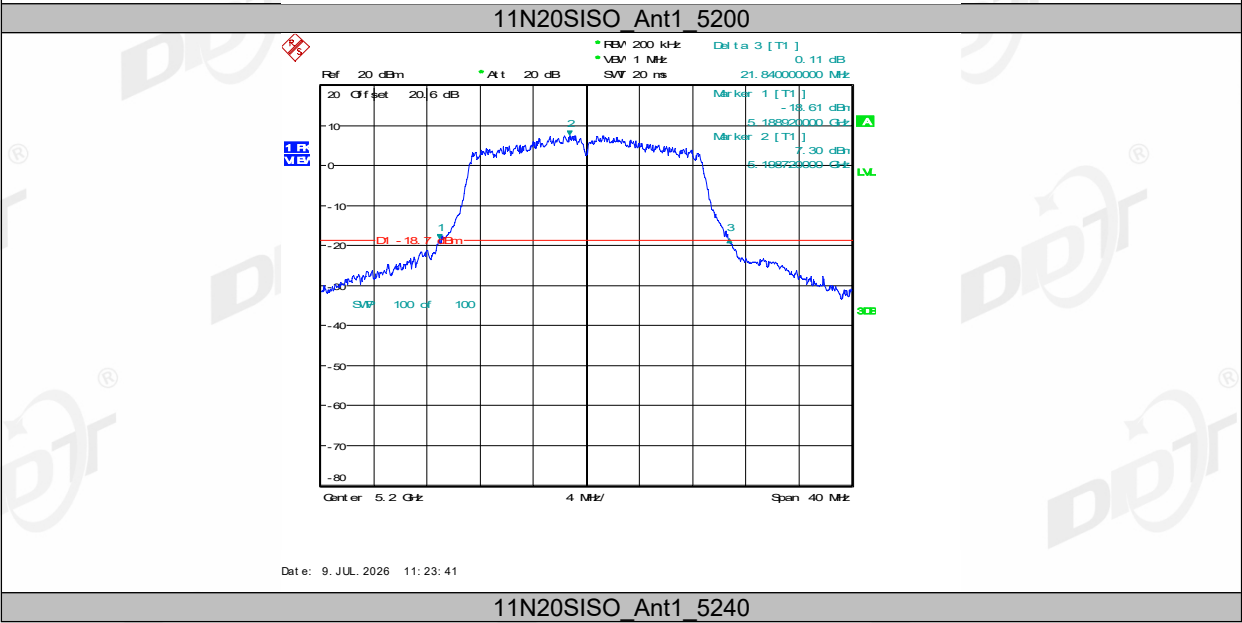
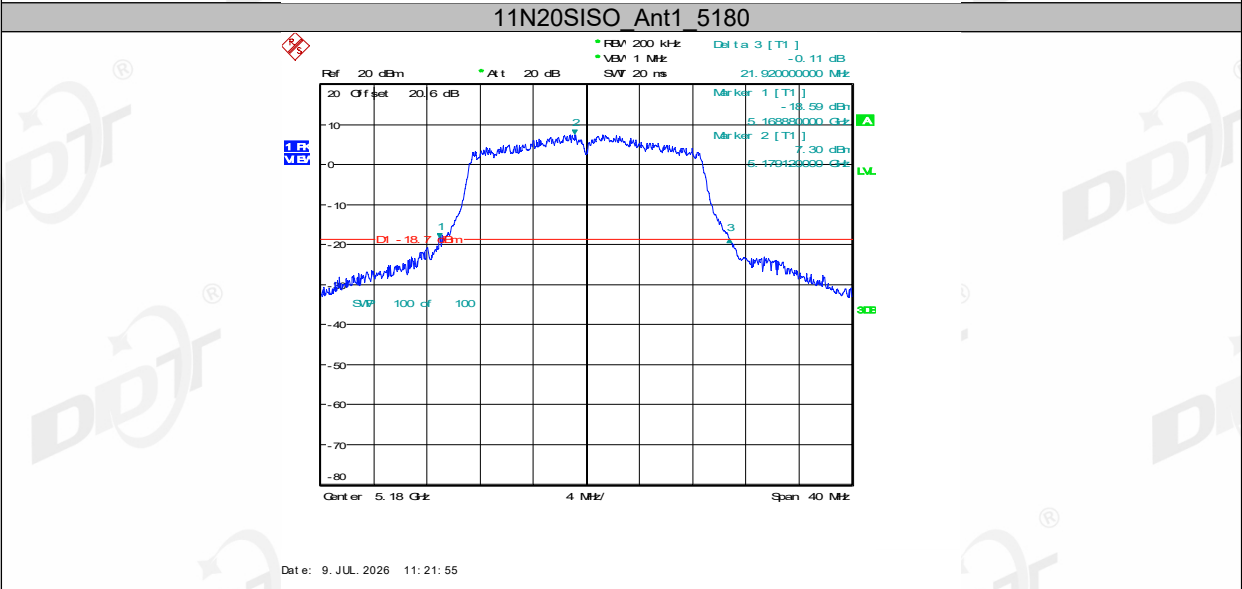
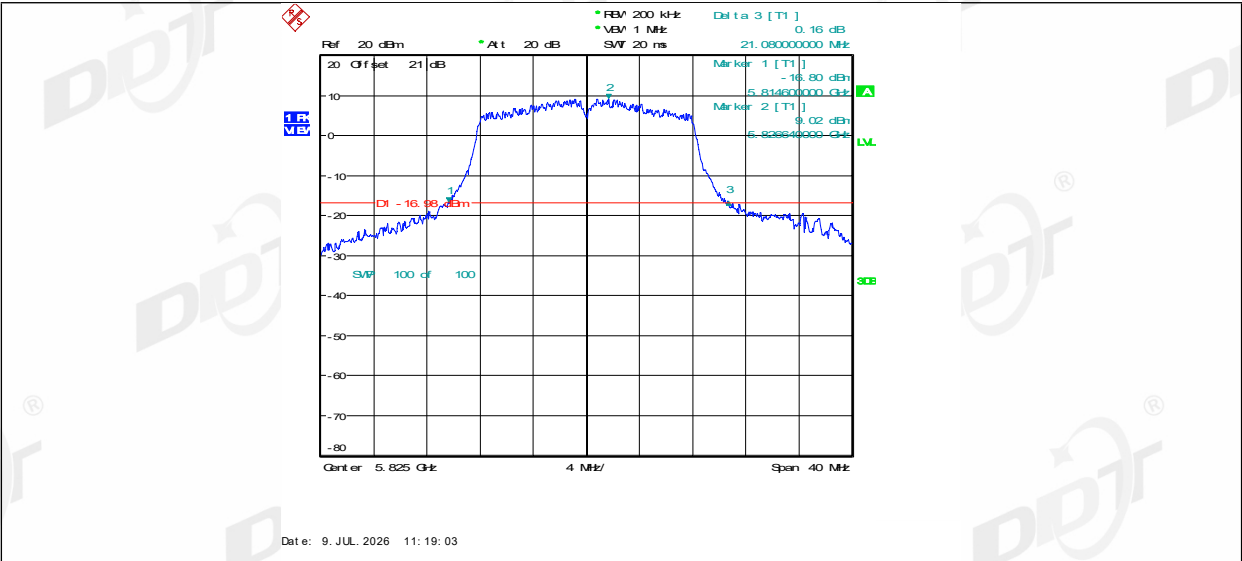
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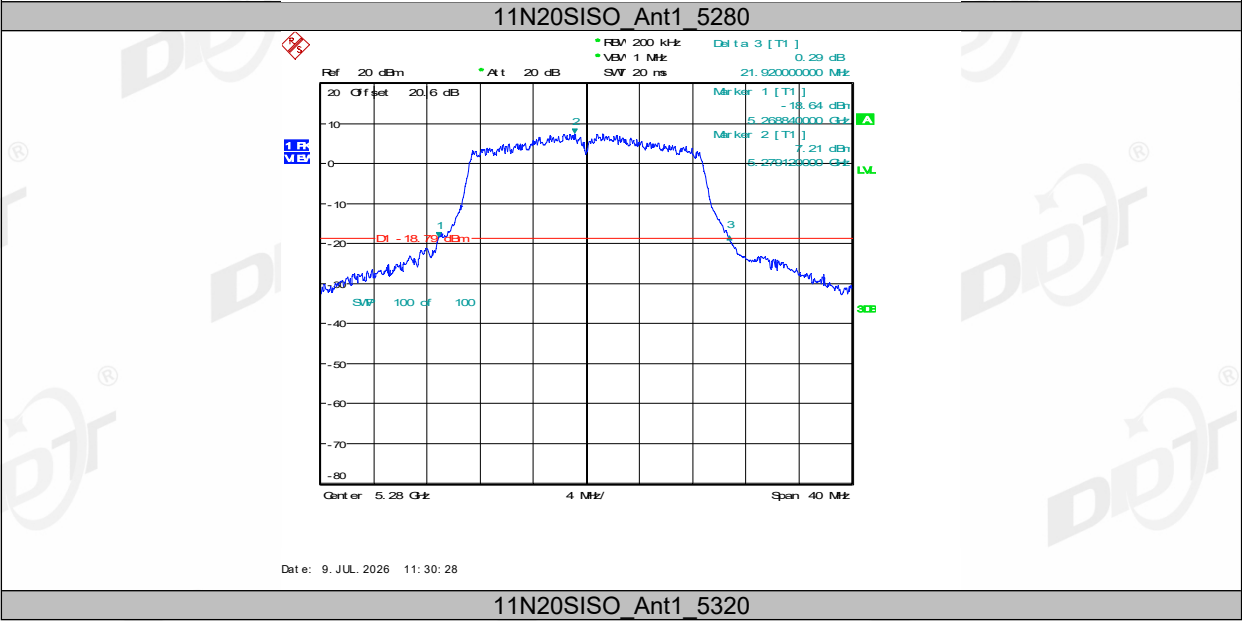
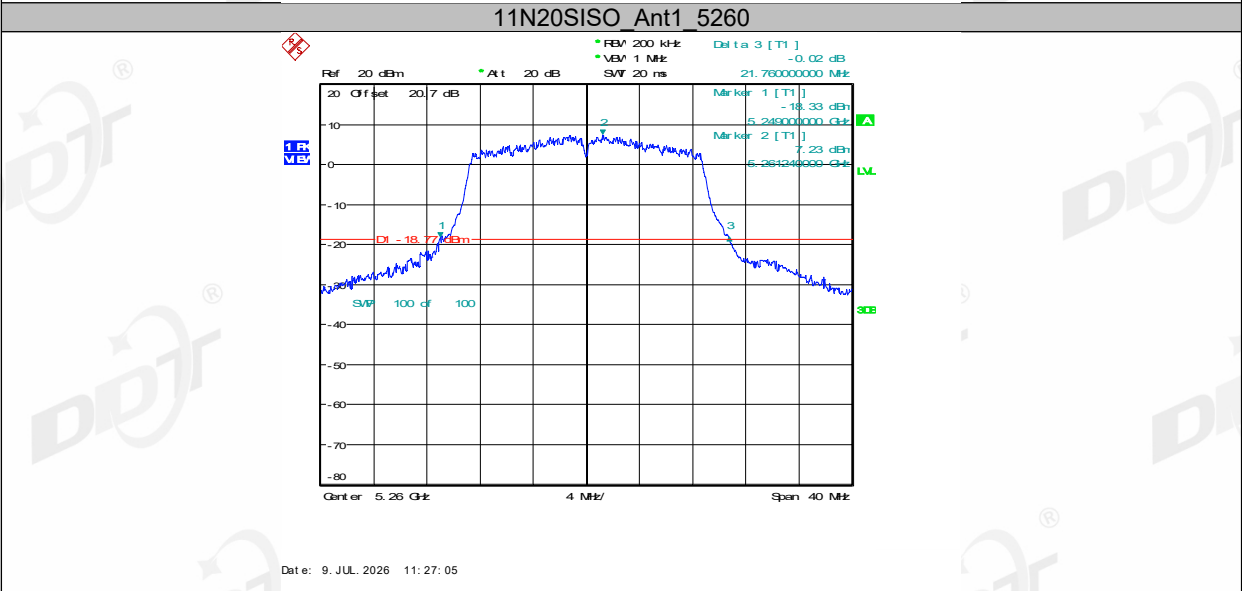
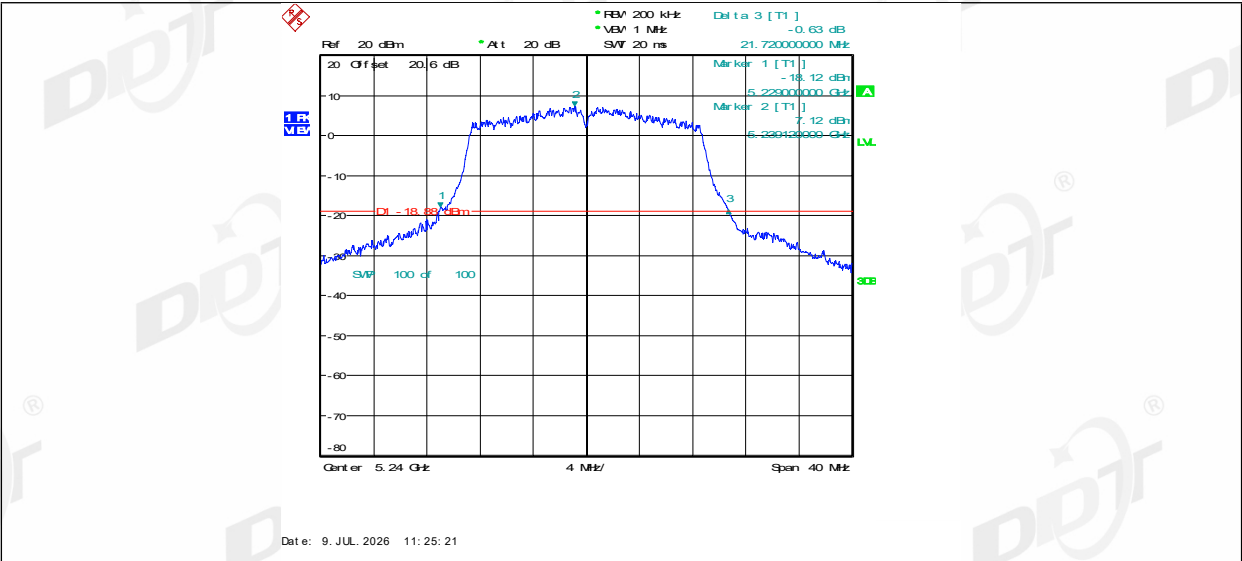


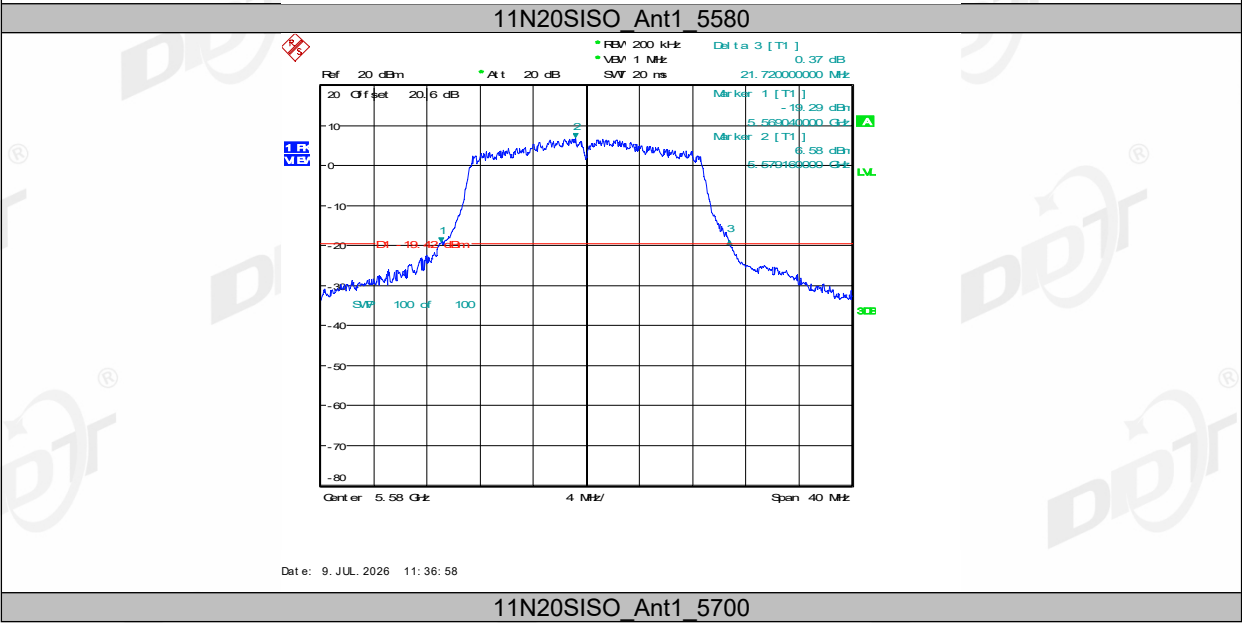
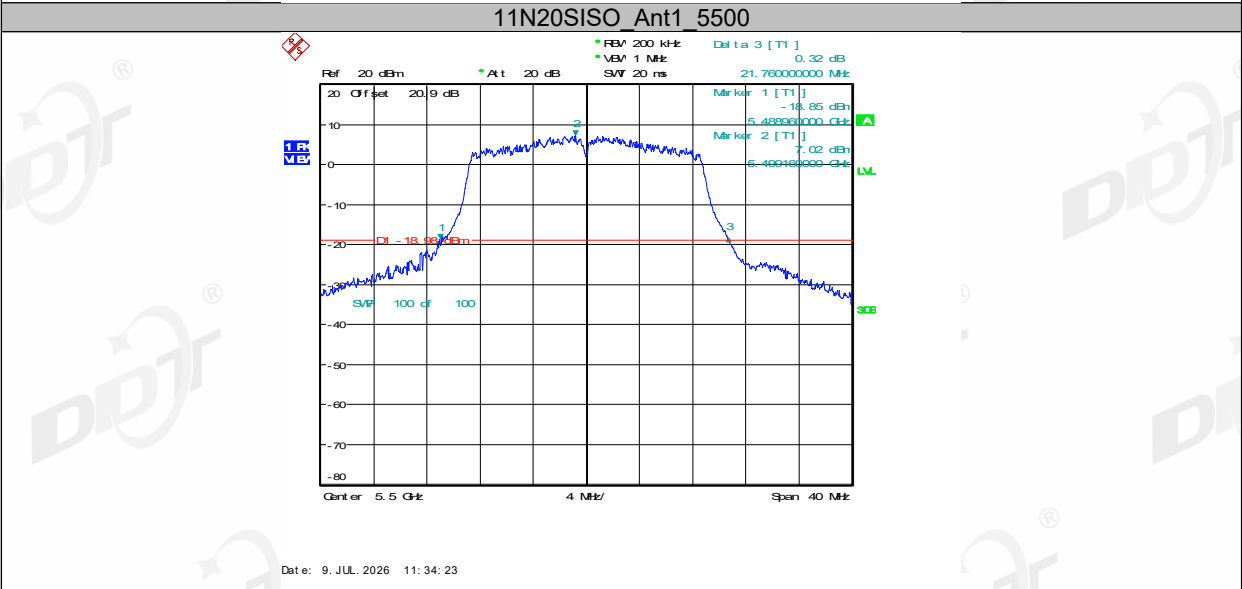
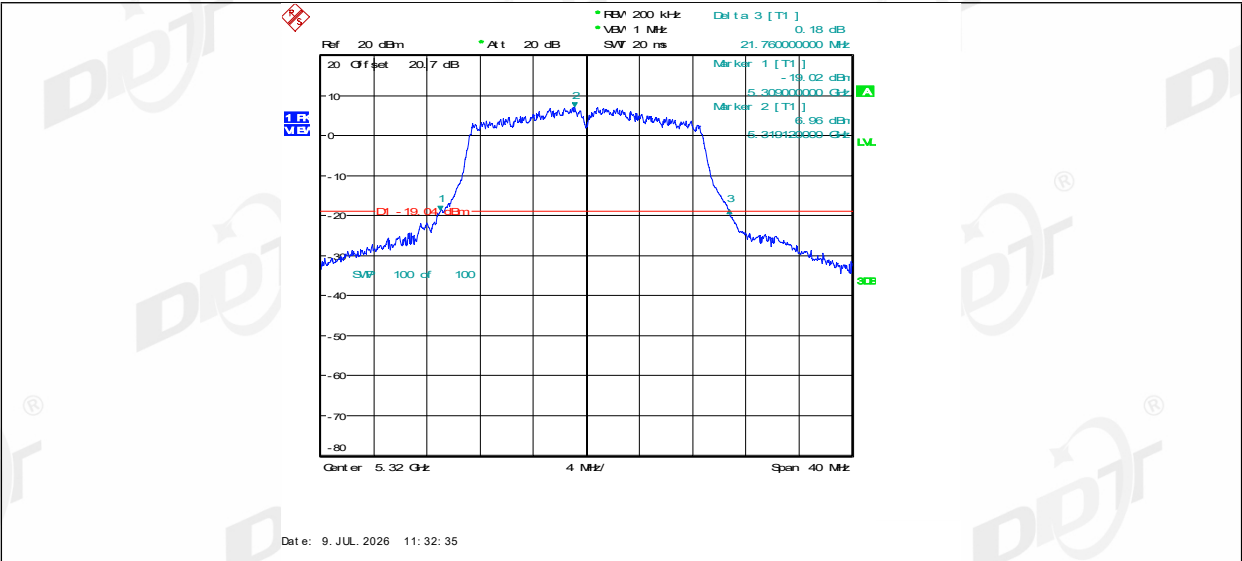
11A_Ant1_5500

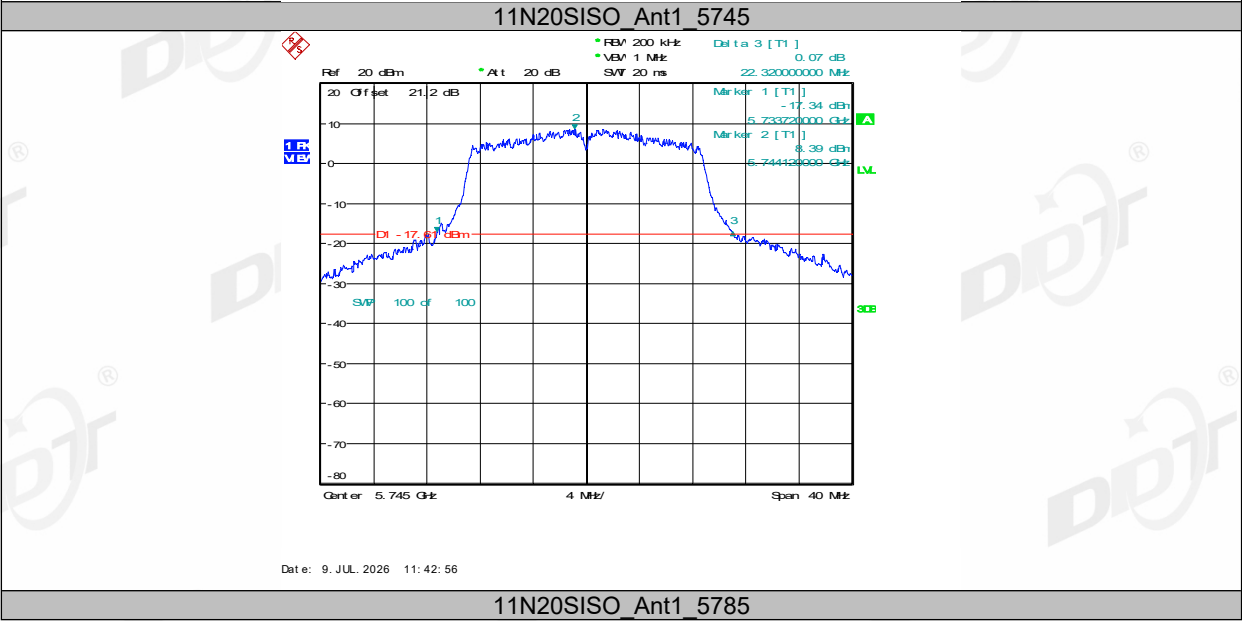
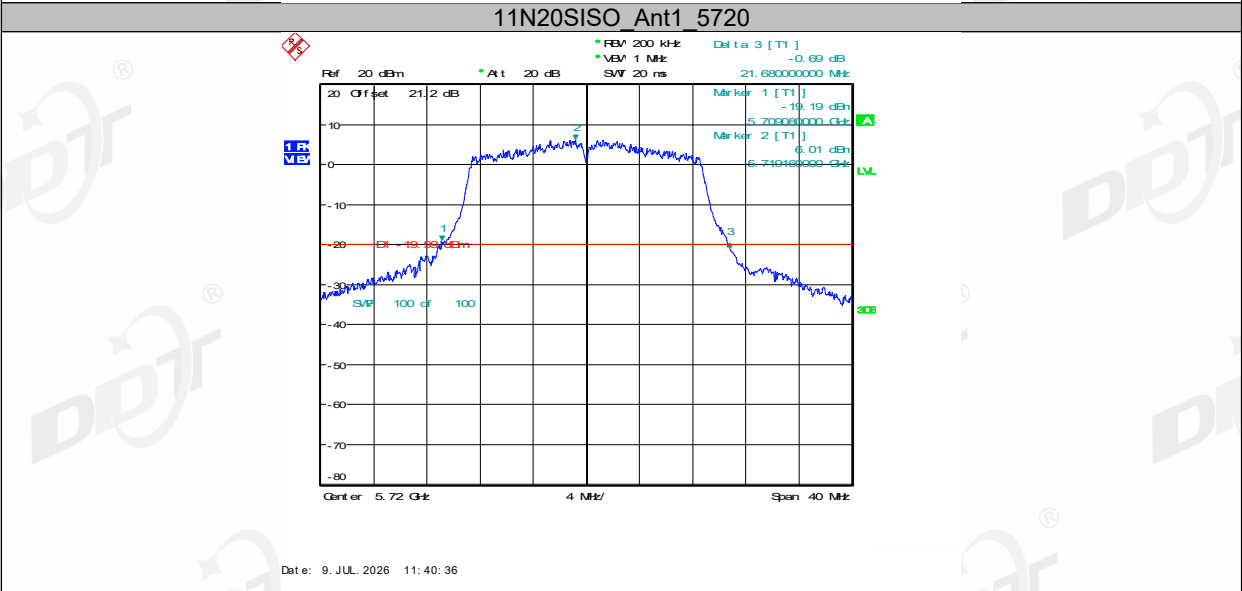
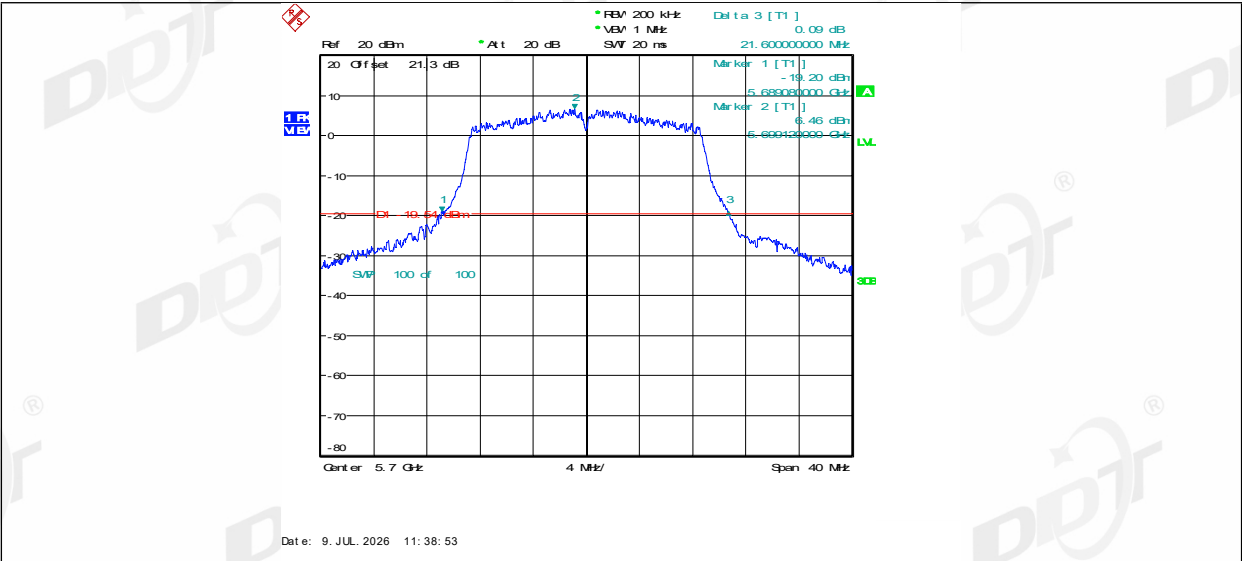


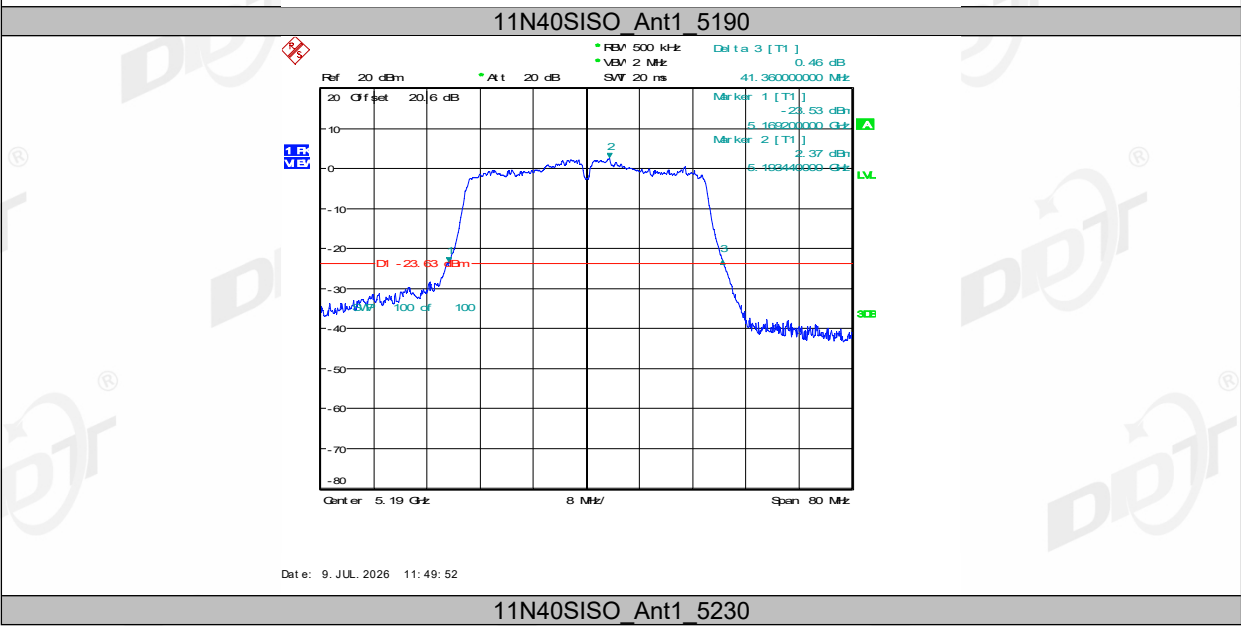
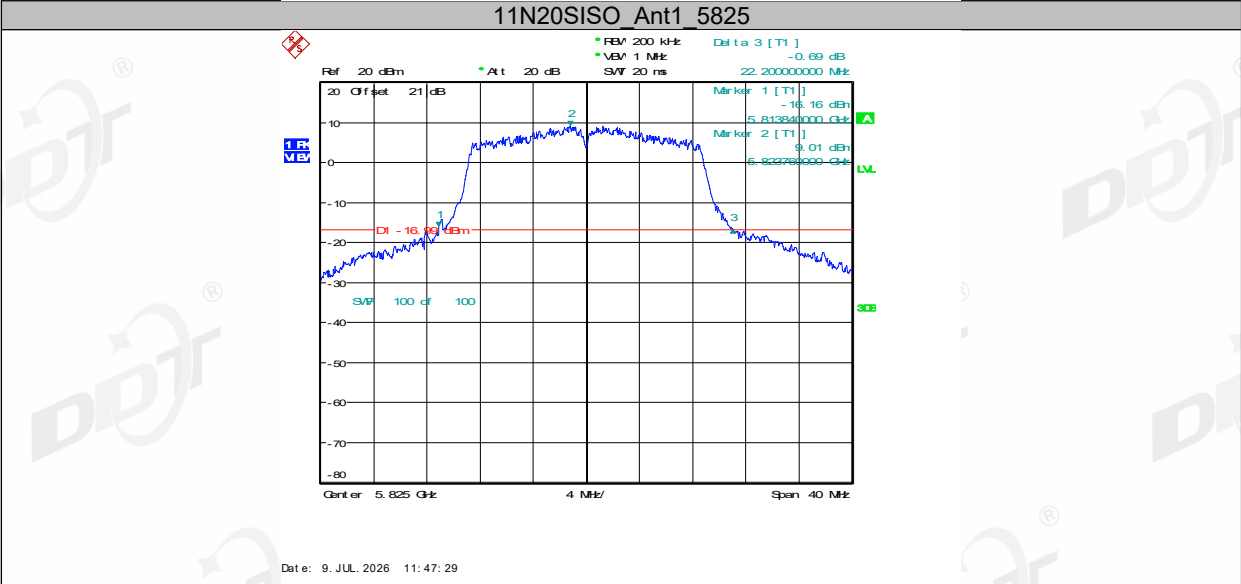
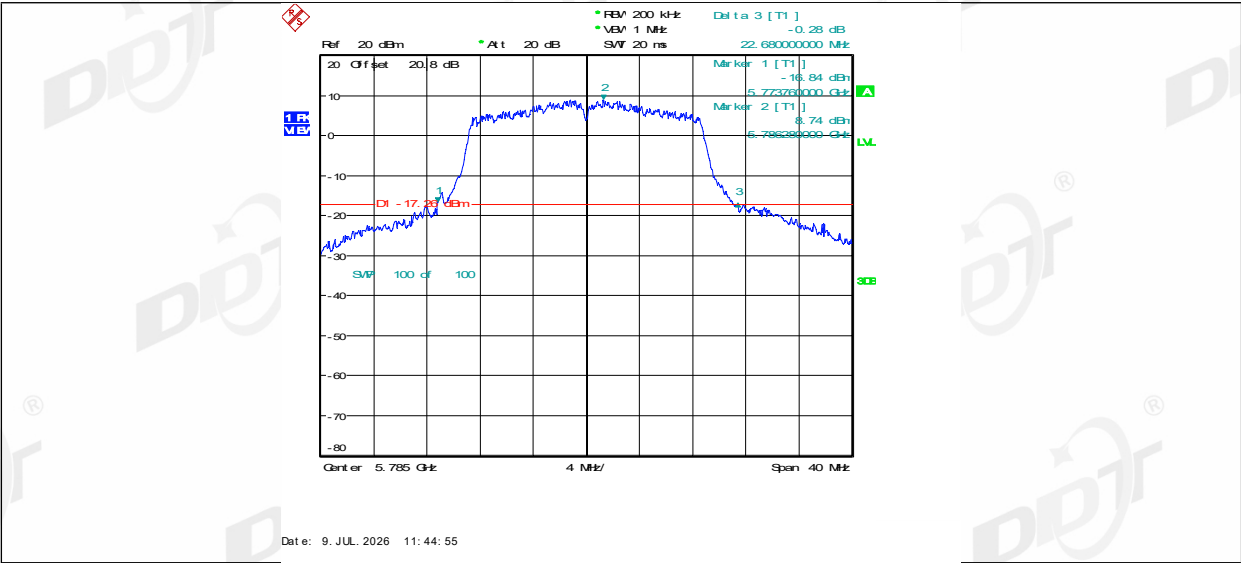


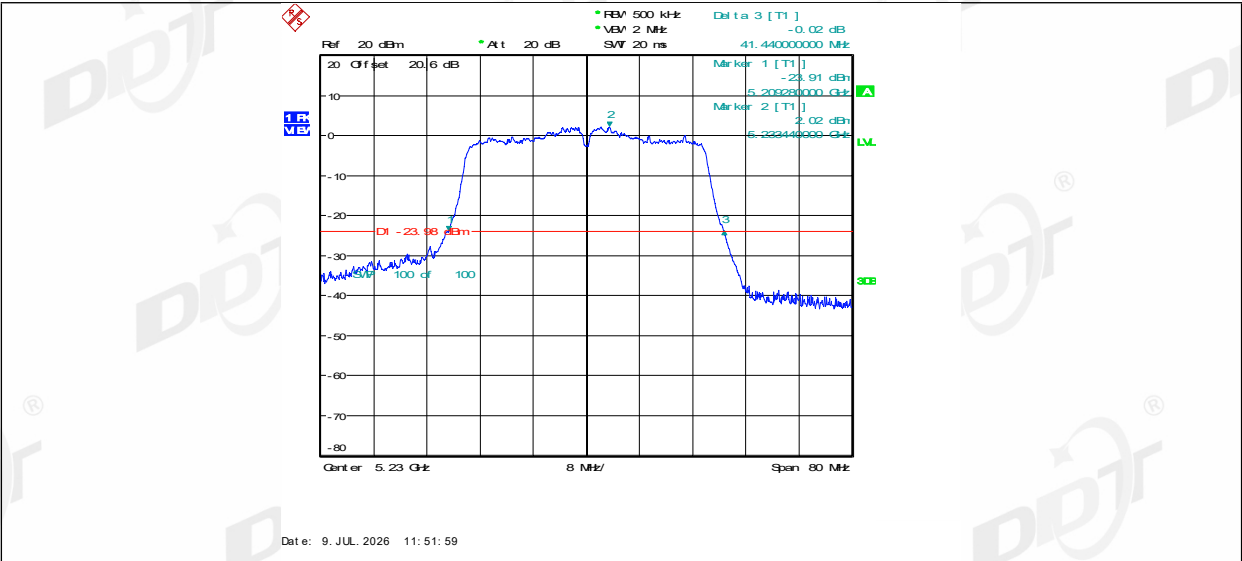




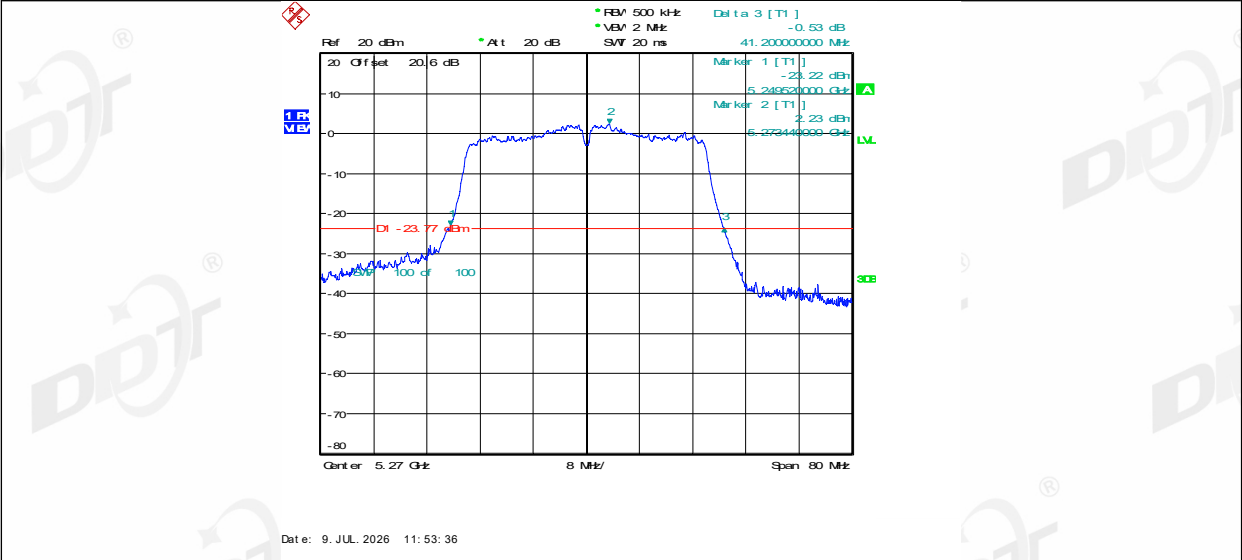




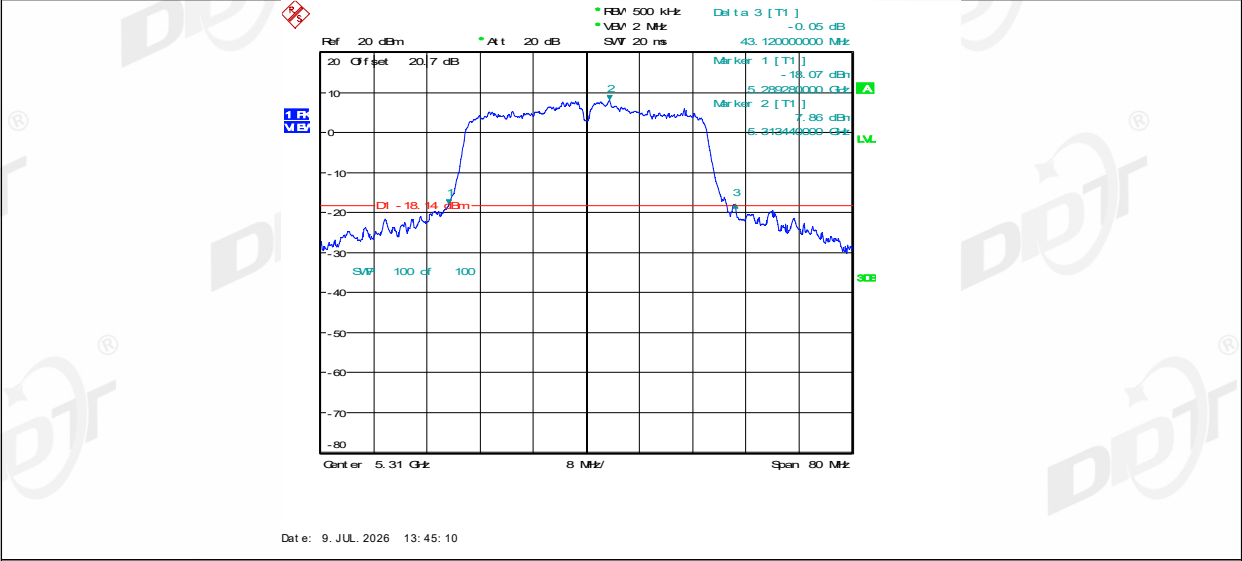




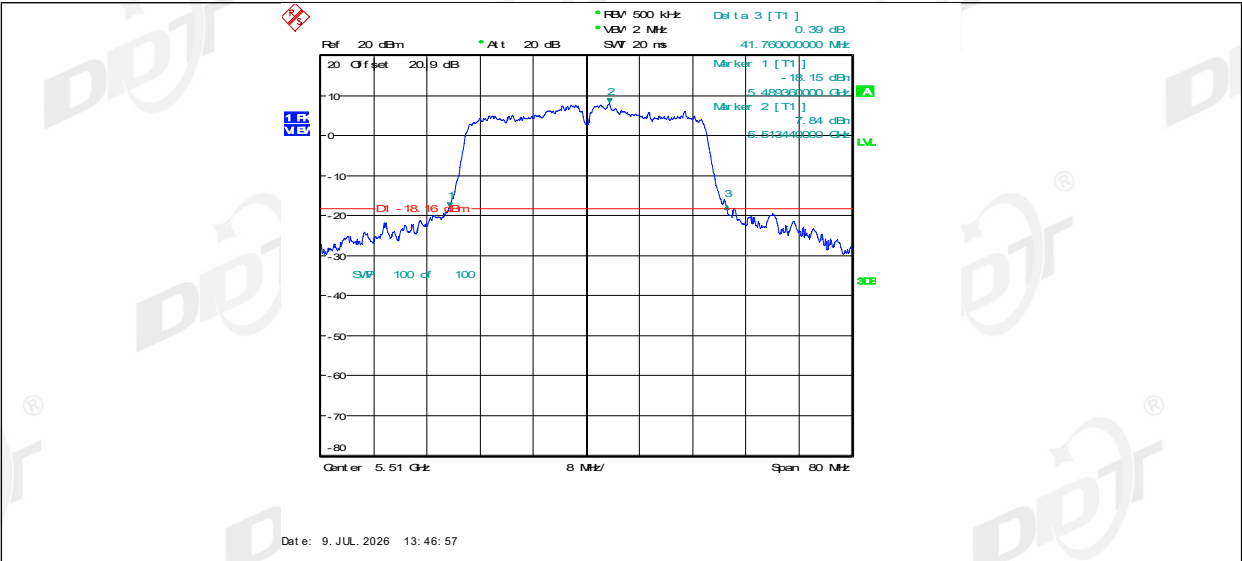
11N40SISO_Ant1_5270



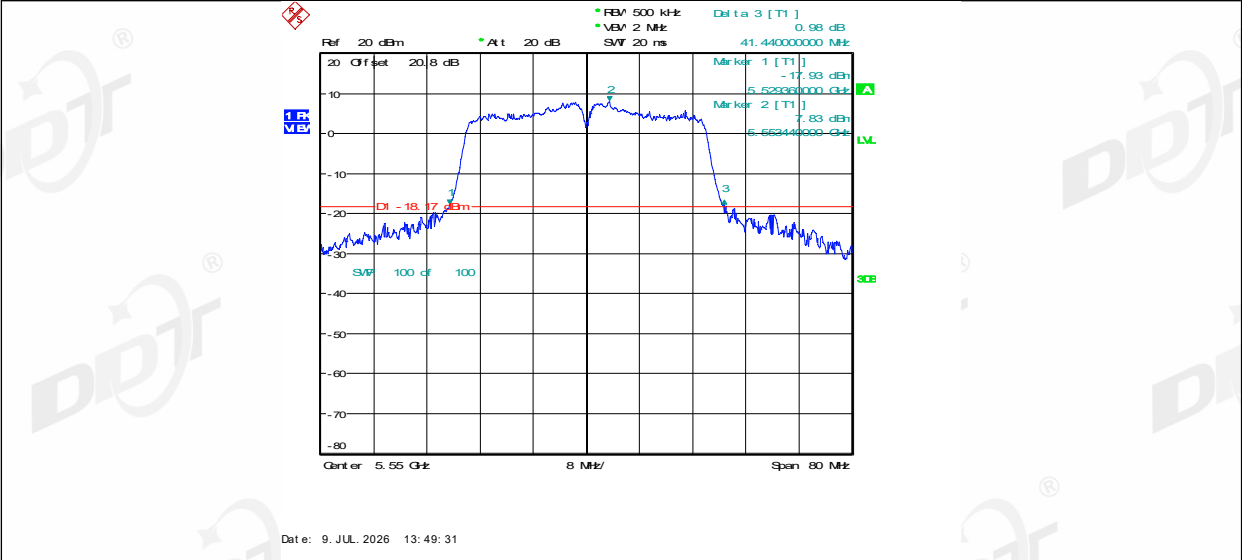
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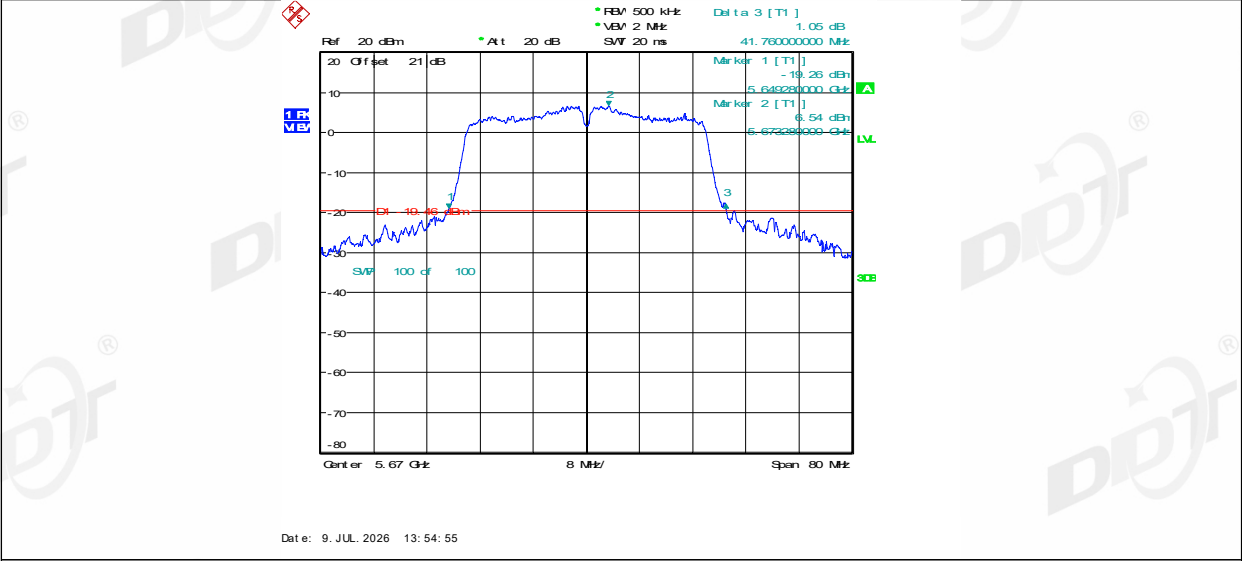
11N40SISO_Ant1_5510



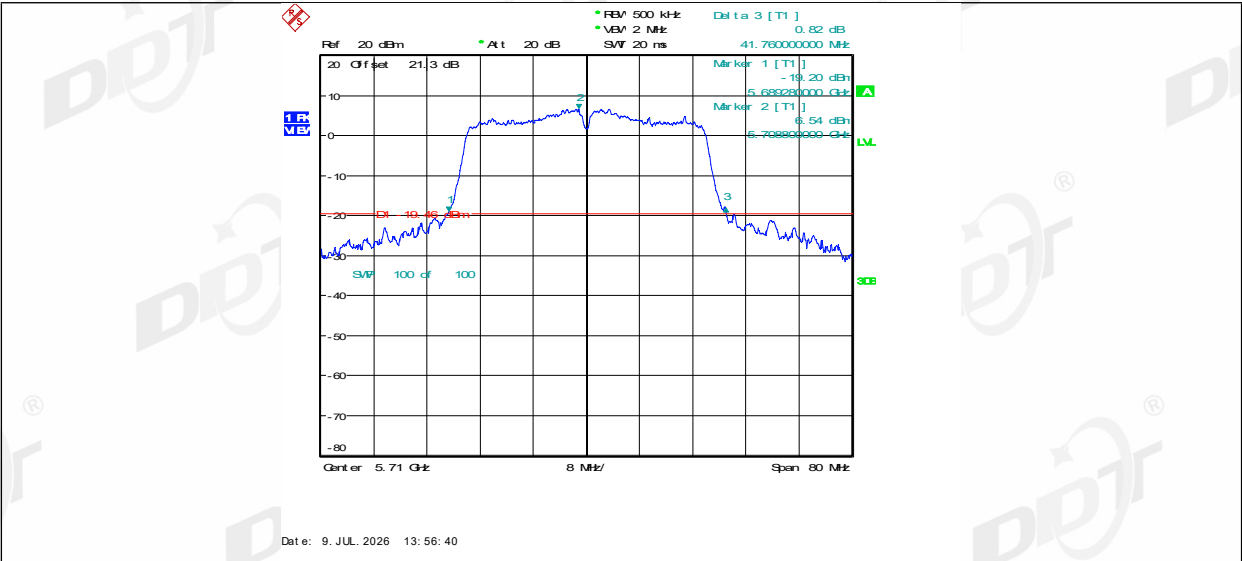
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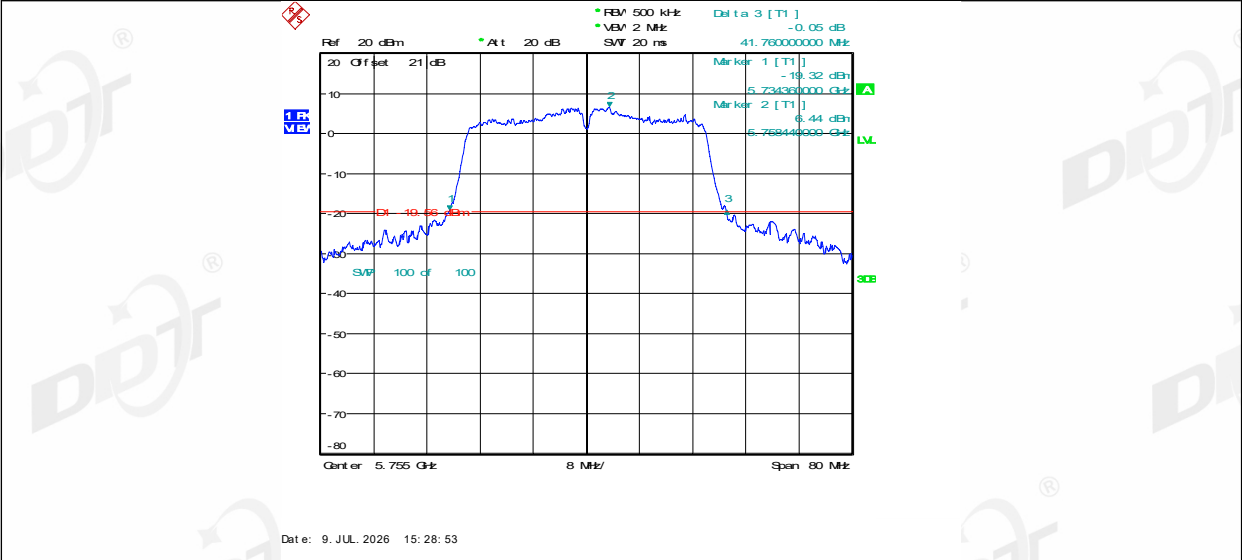
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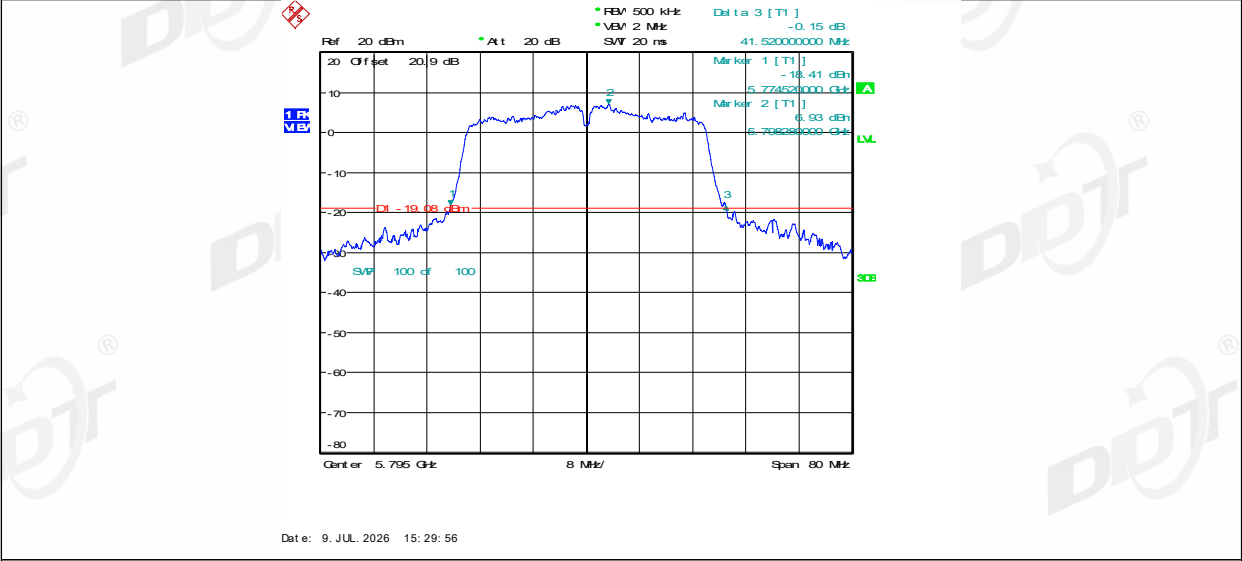
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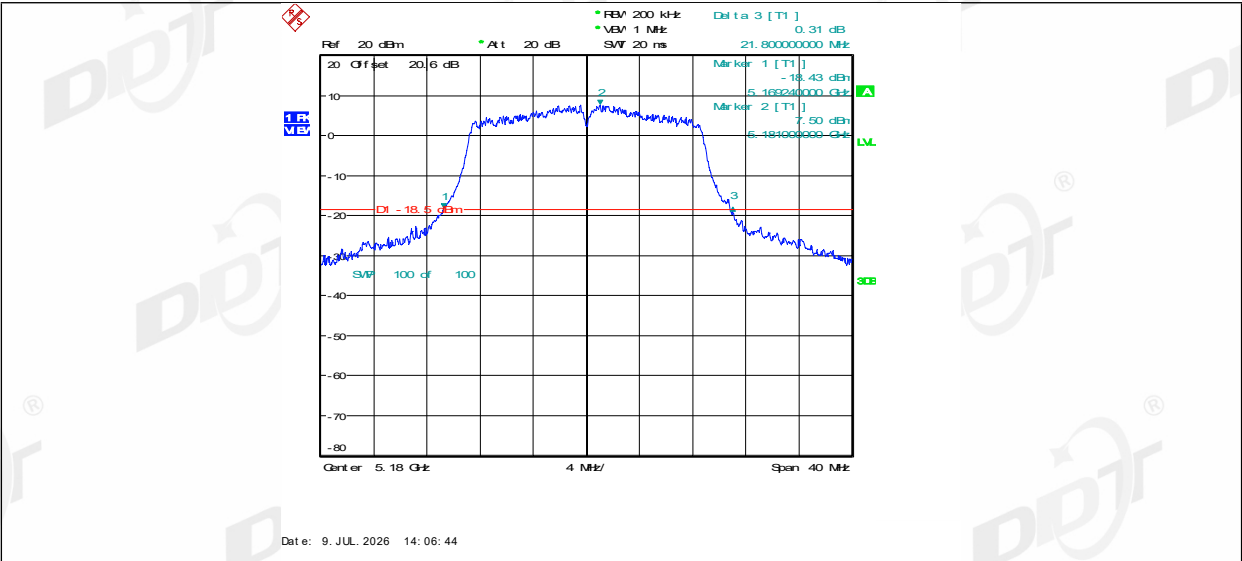
11N40SISO_Ant1_5755



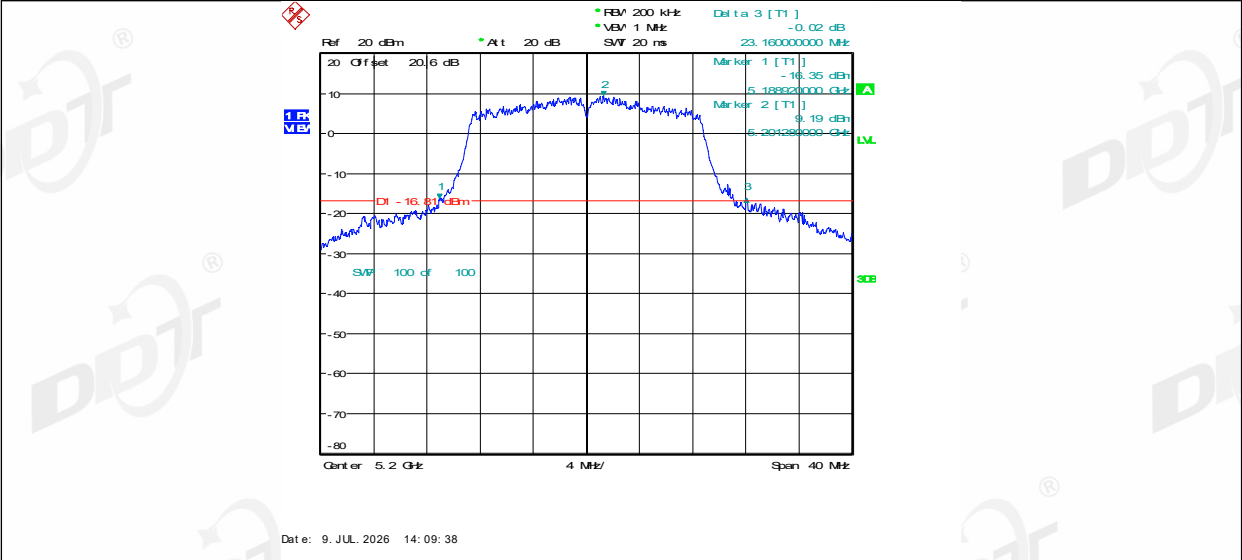
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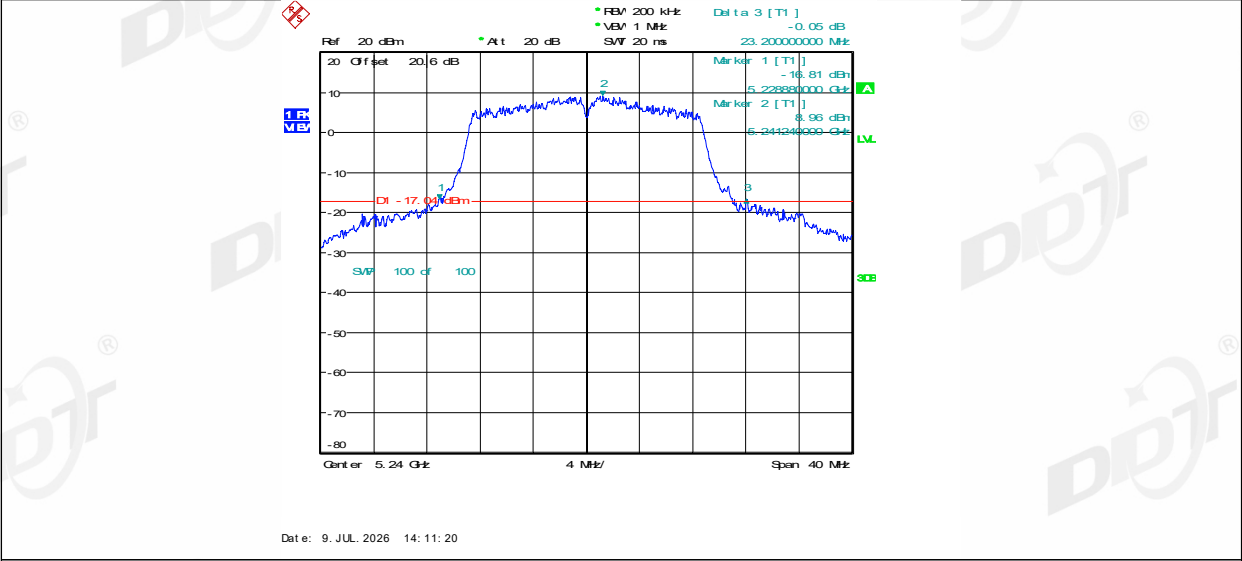
11AC20SISO_Ant1_5180



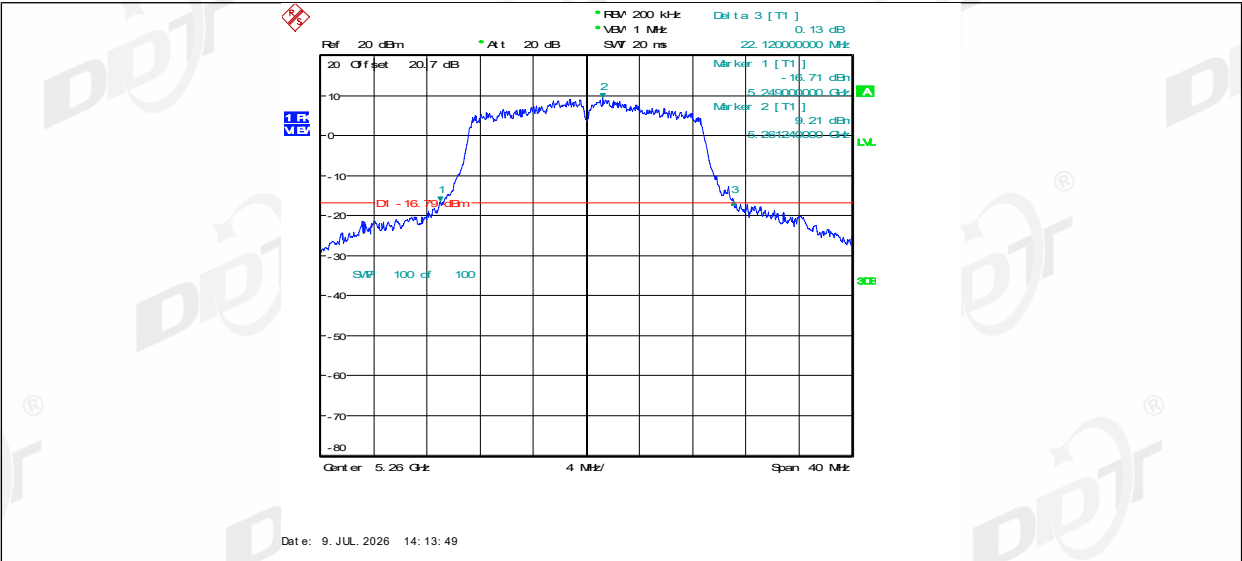
11AC20SISO_Ant1_5200



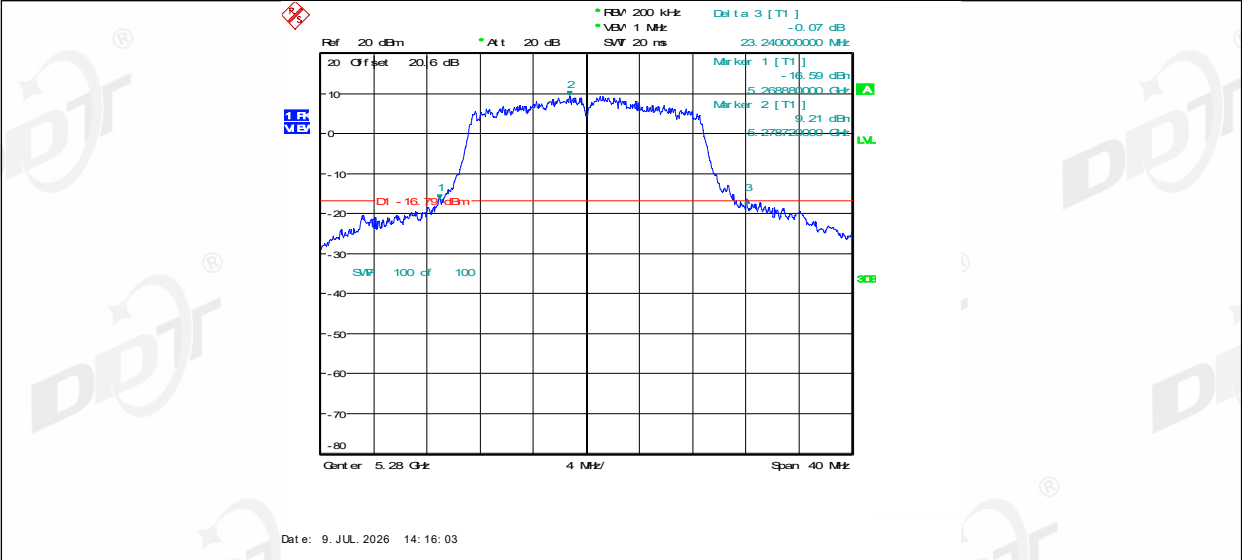
11AC20SISO_Ant1_5240



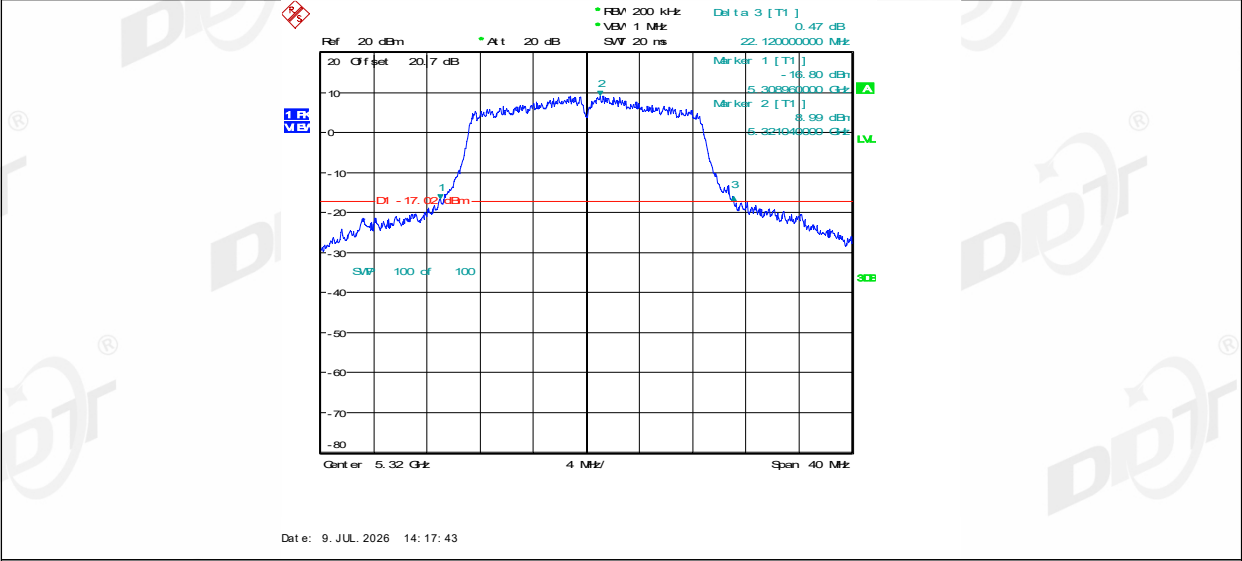
11AC20SISO_Ant1_5260



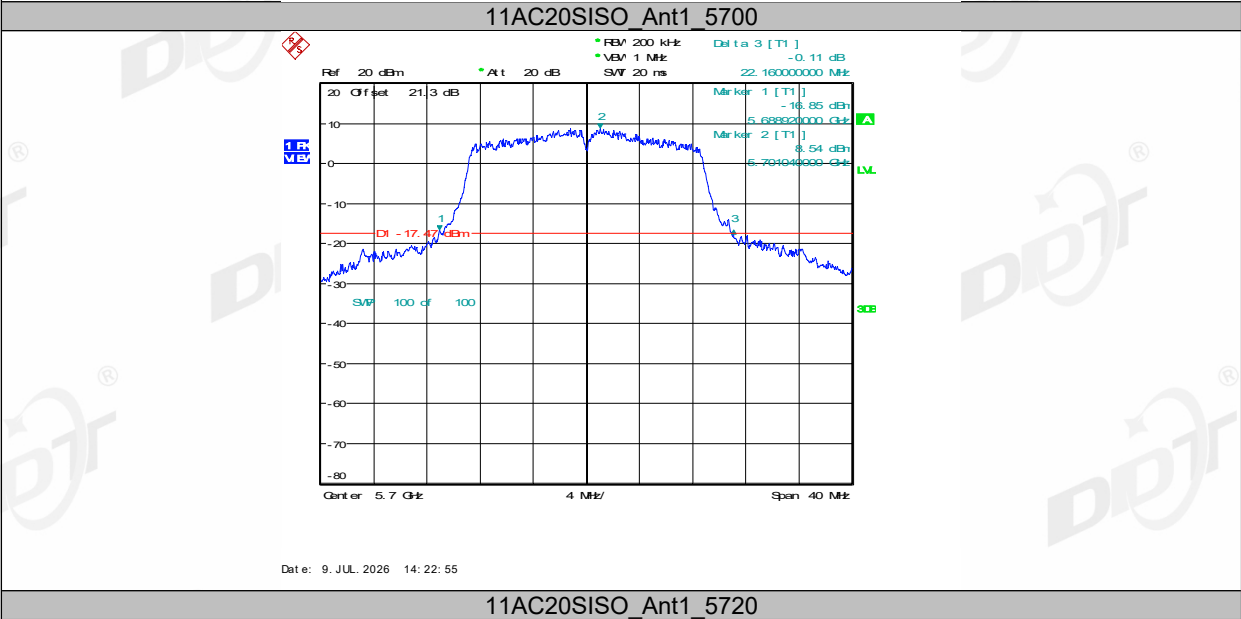
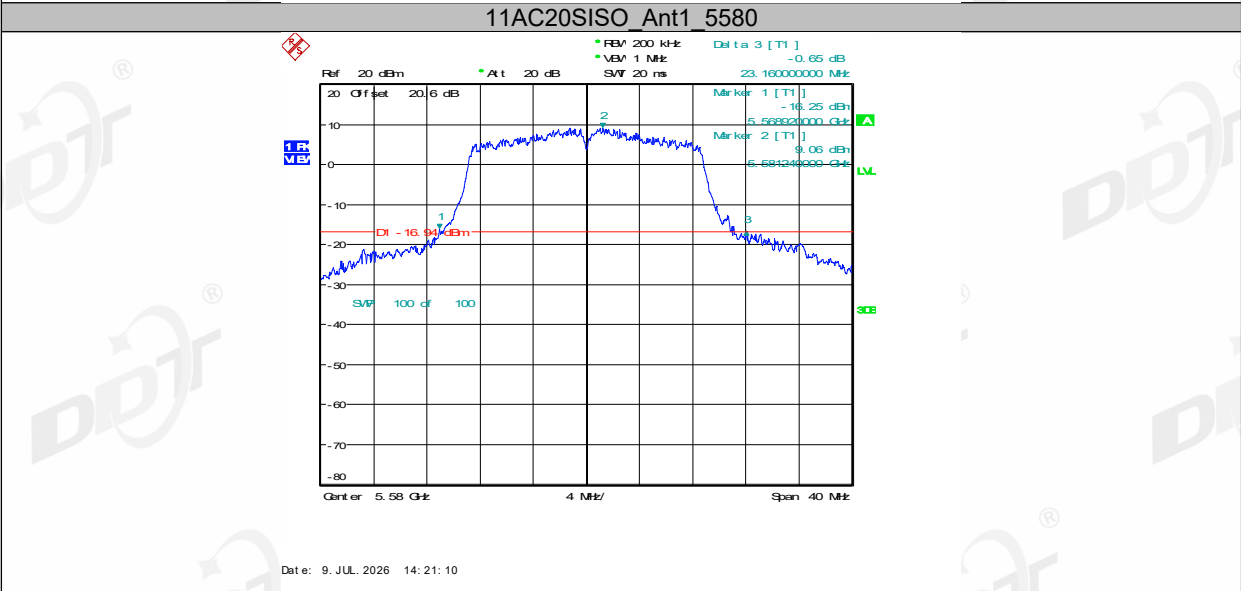
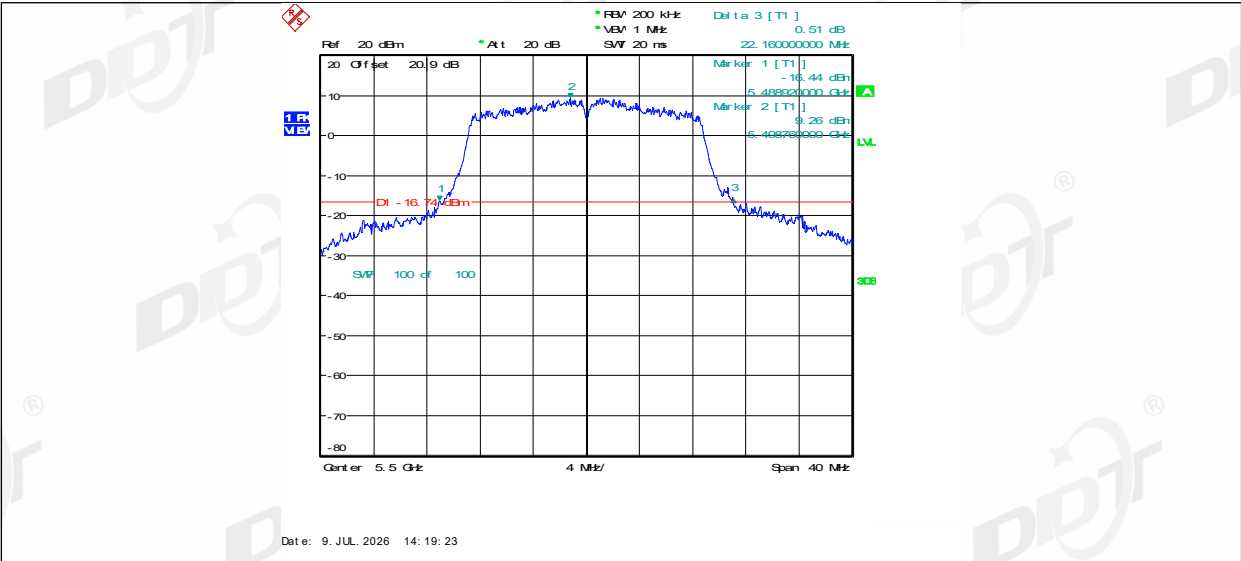
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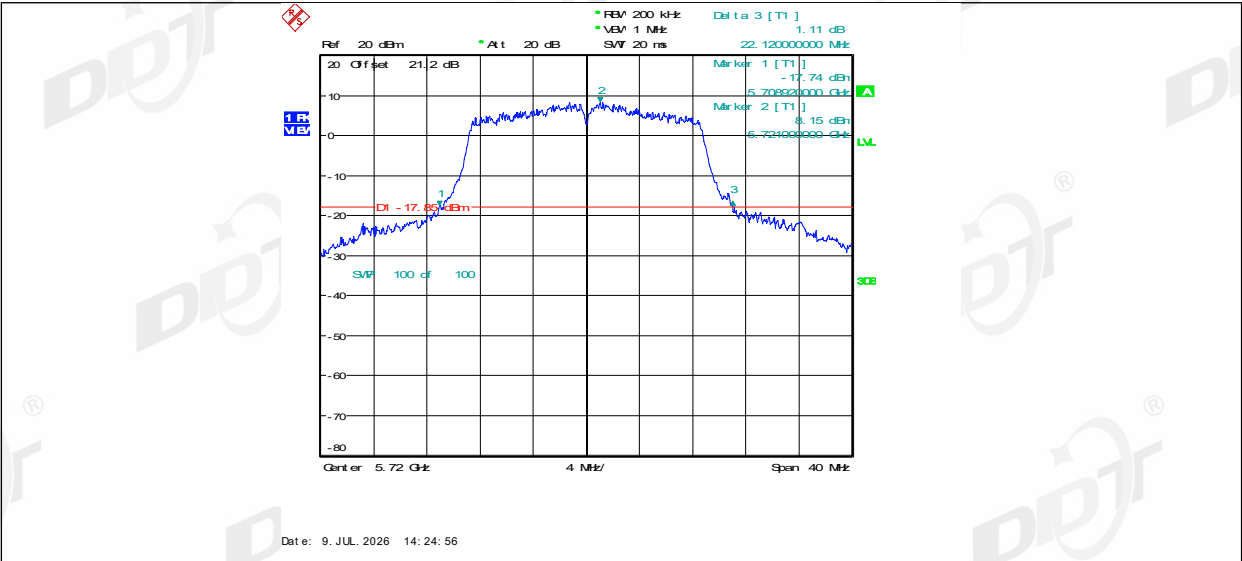


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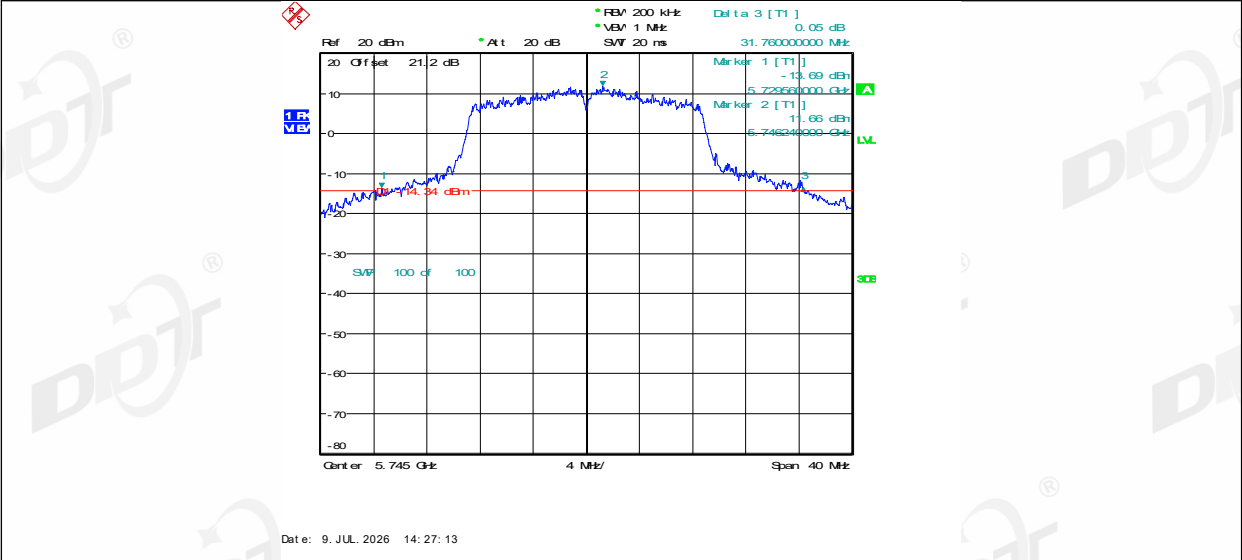


11AC20SISO_Ant1_5500

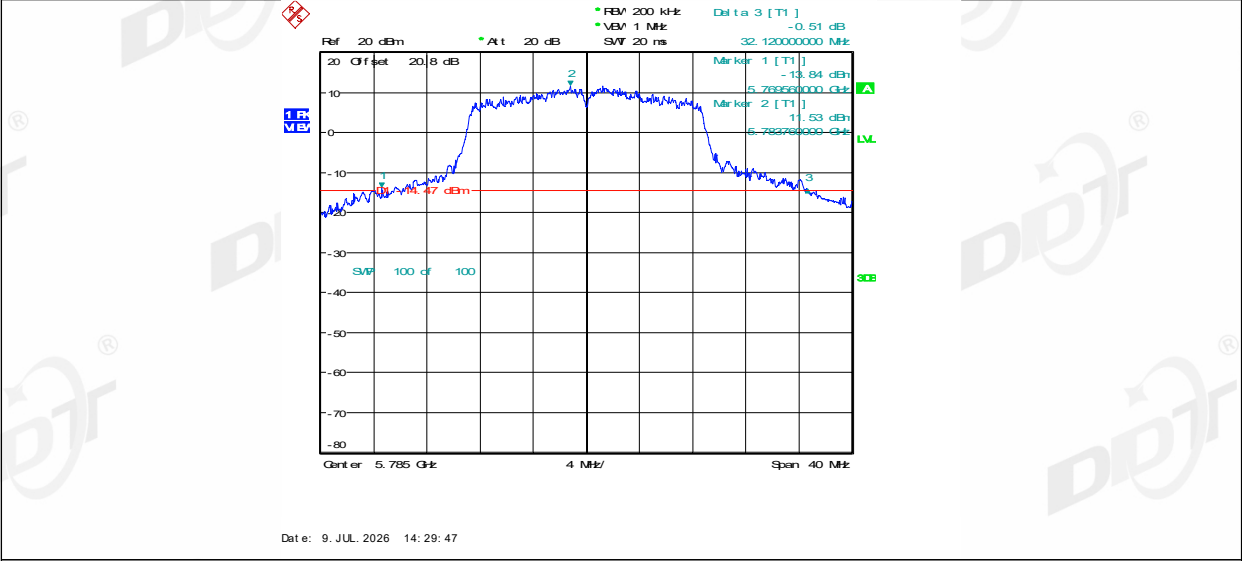




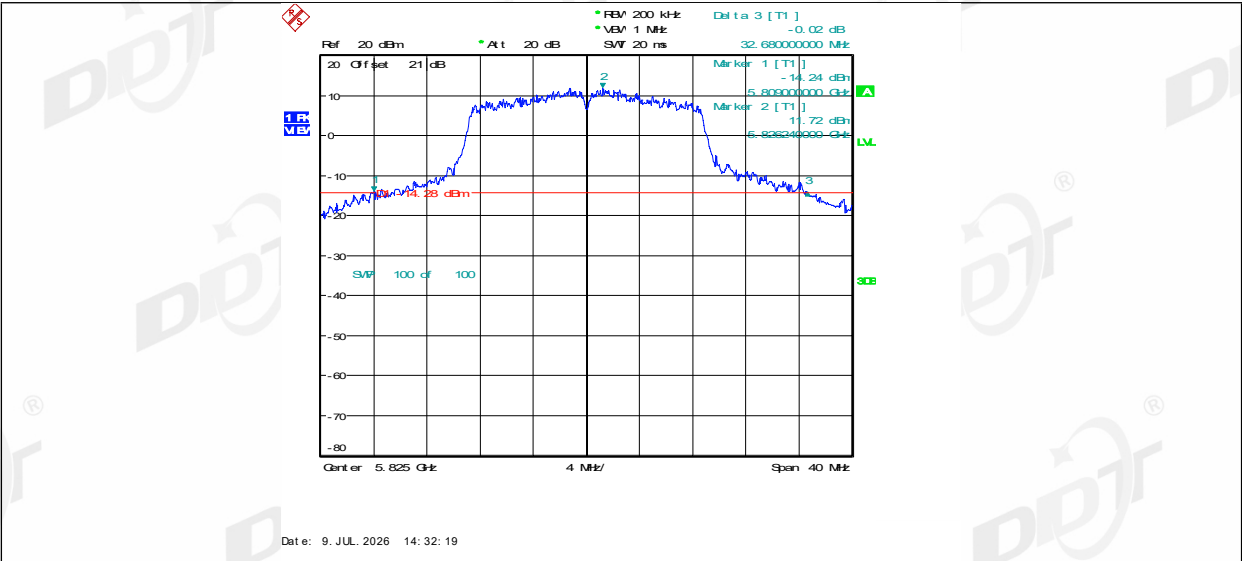
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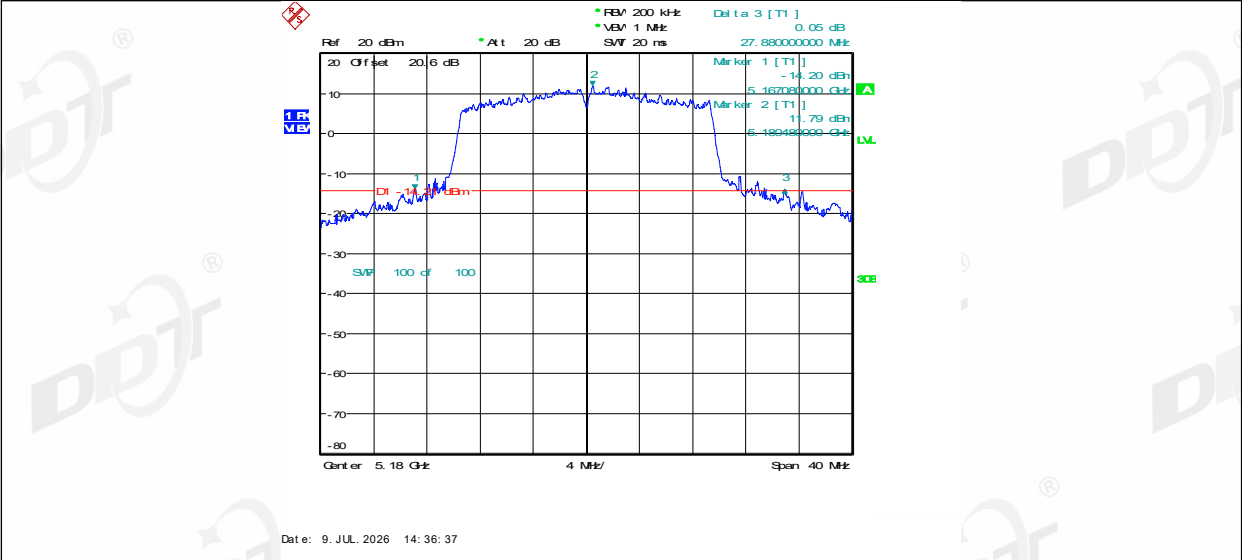
11AC20SISO_Ant1_5785



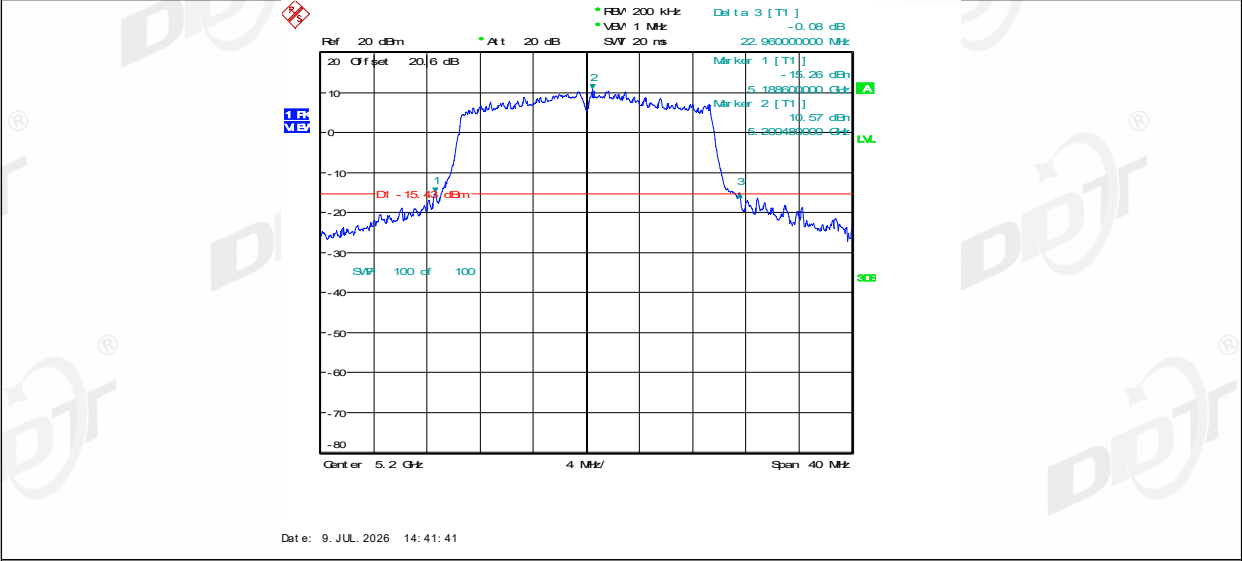
11AC20SISO_Ant1_5825



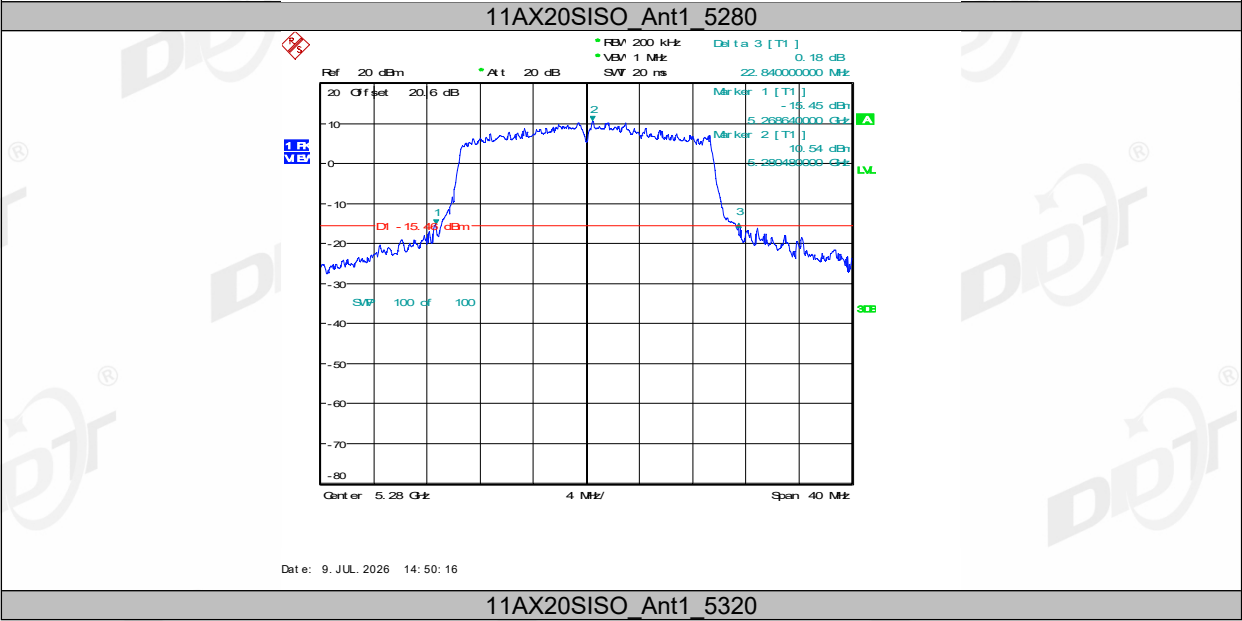
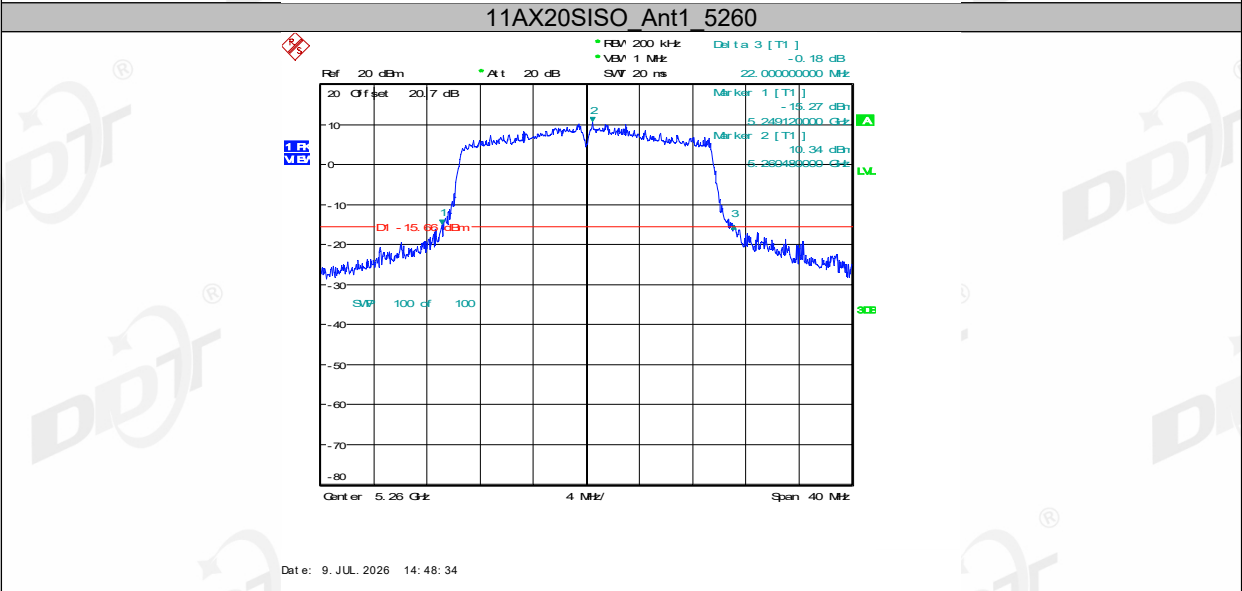
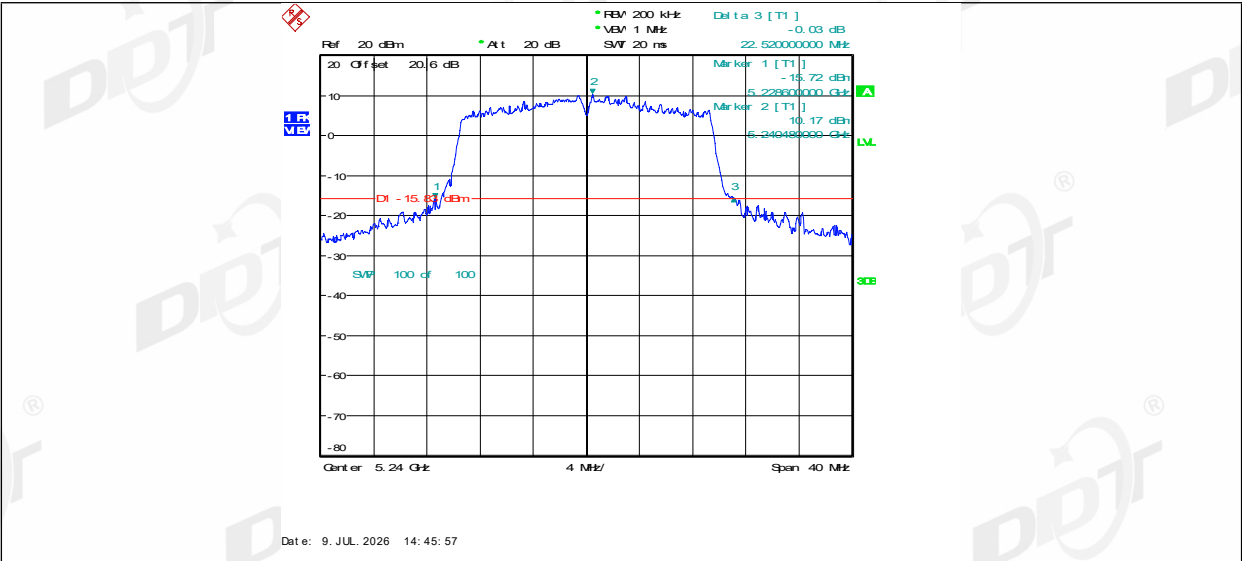
11AX20SISO_Ant1_5180

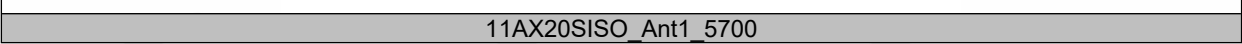
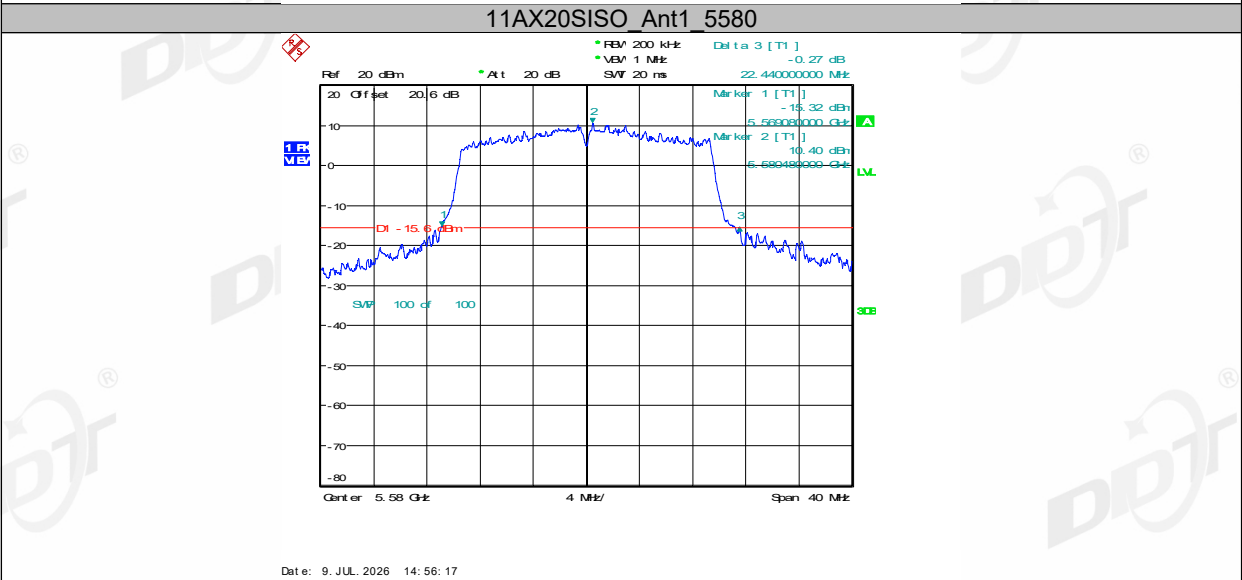
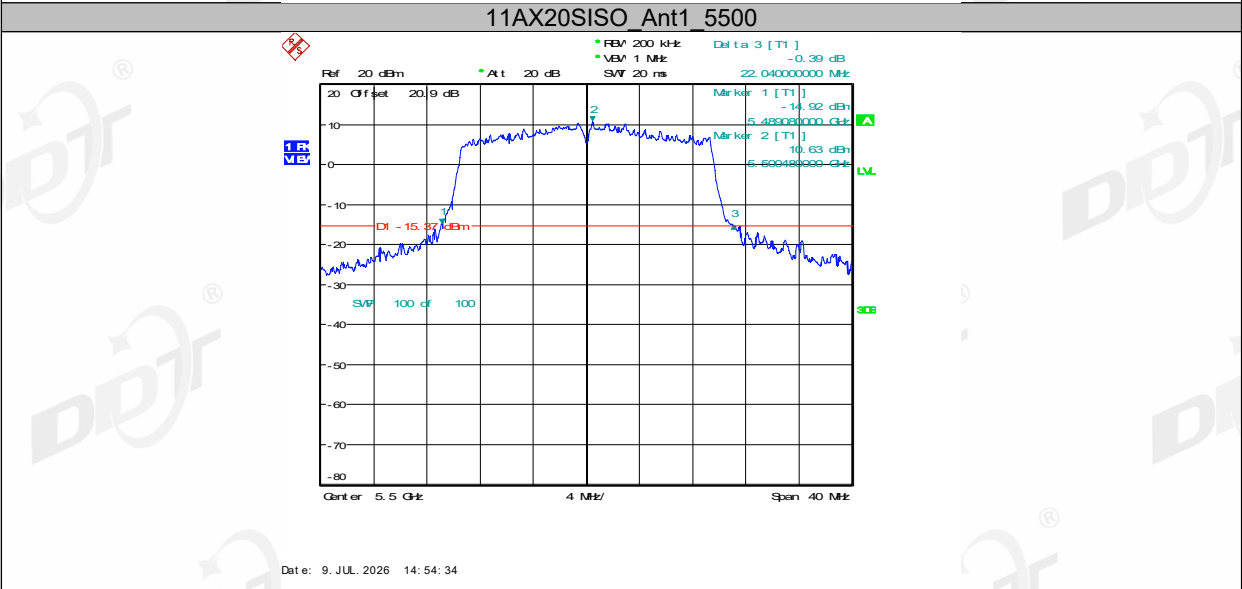
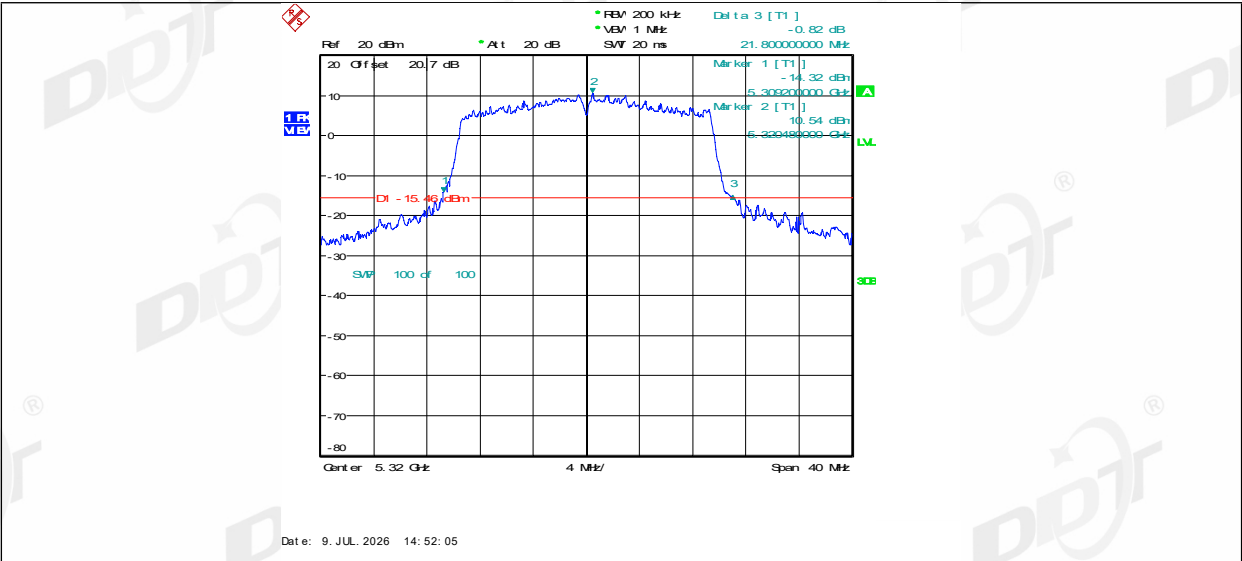


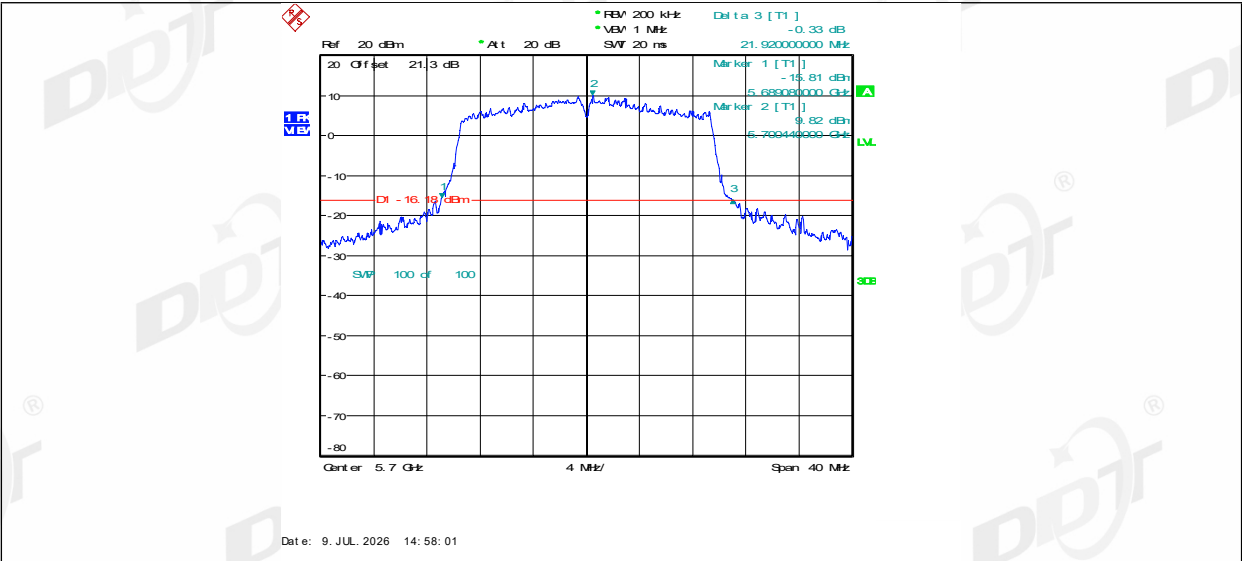
11AX20SISO_Ant1_5200



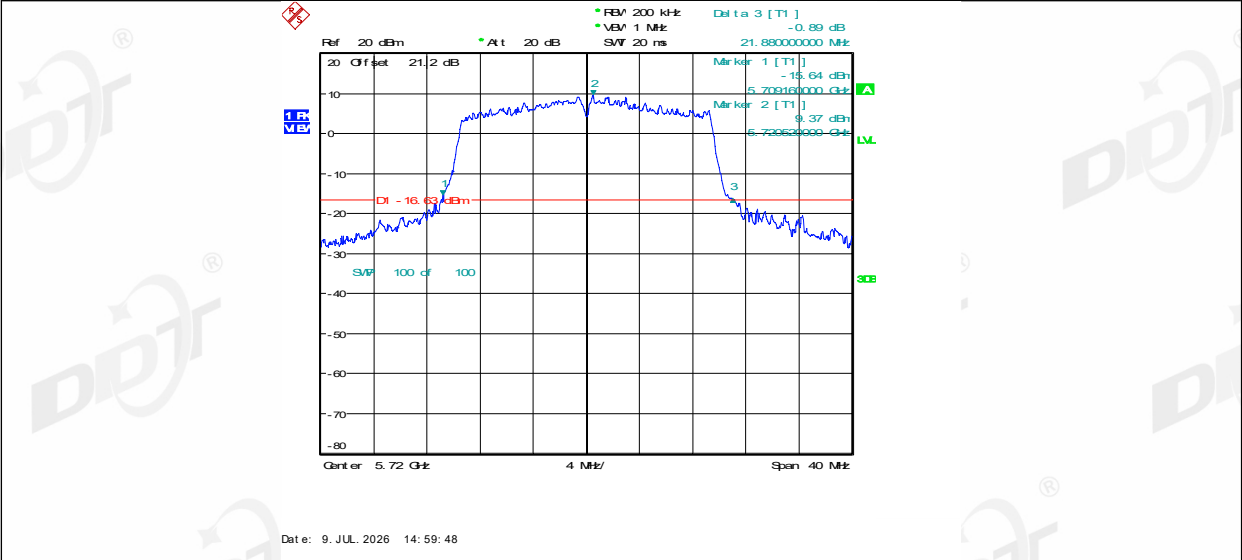
11AX20SISO_Ant1_5240



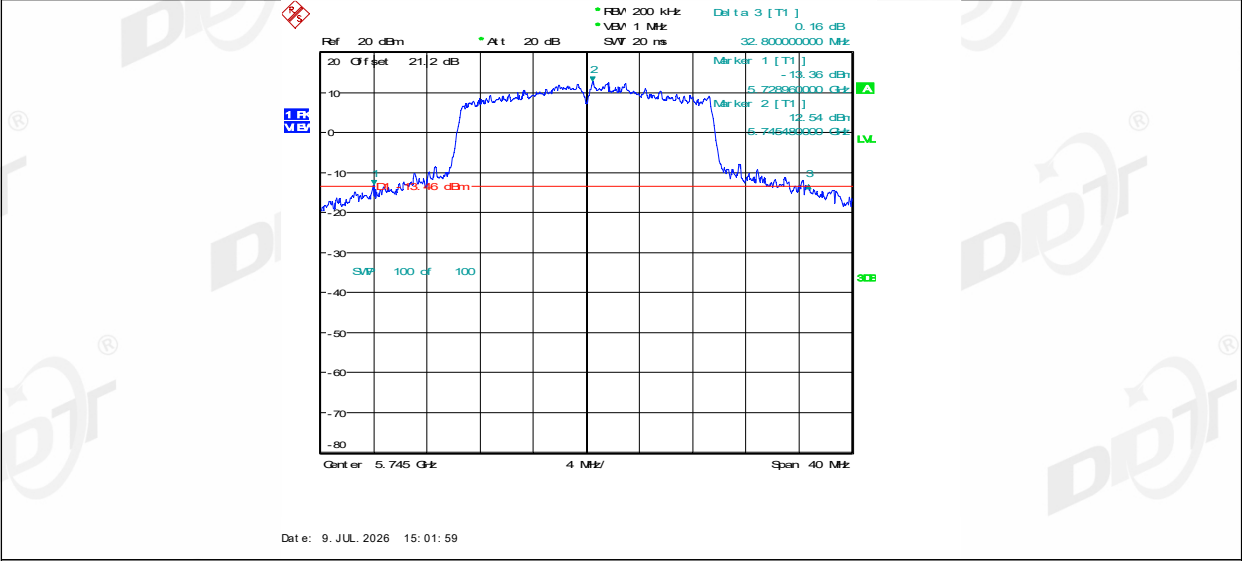




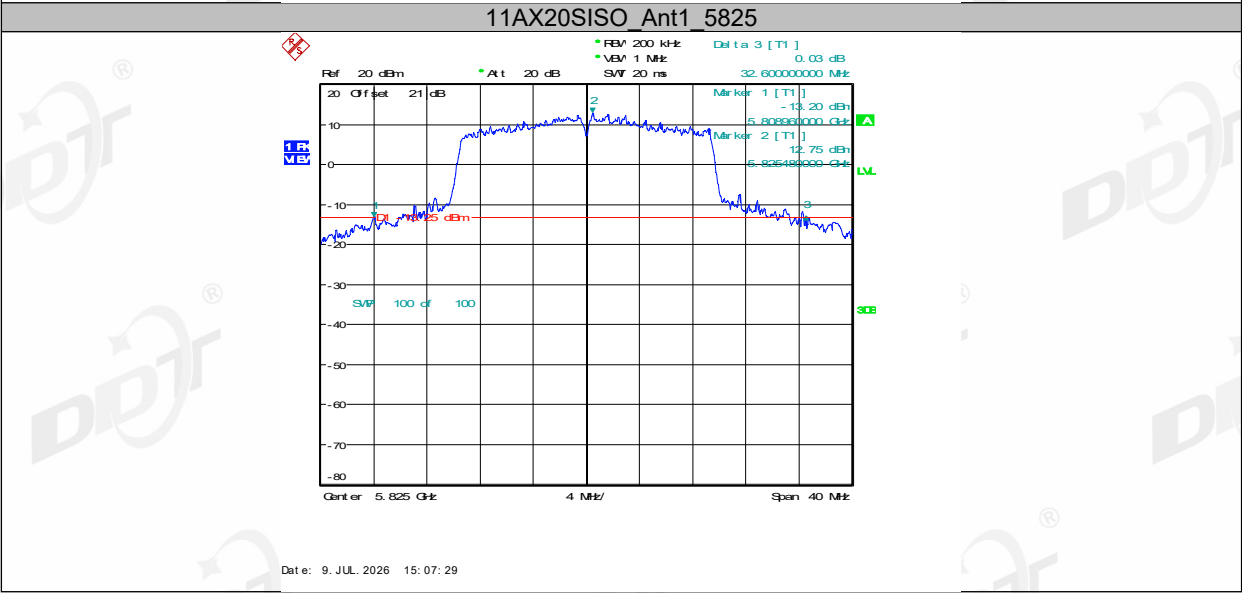
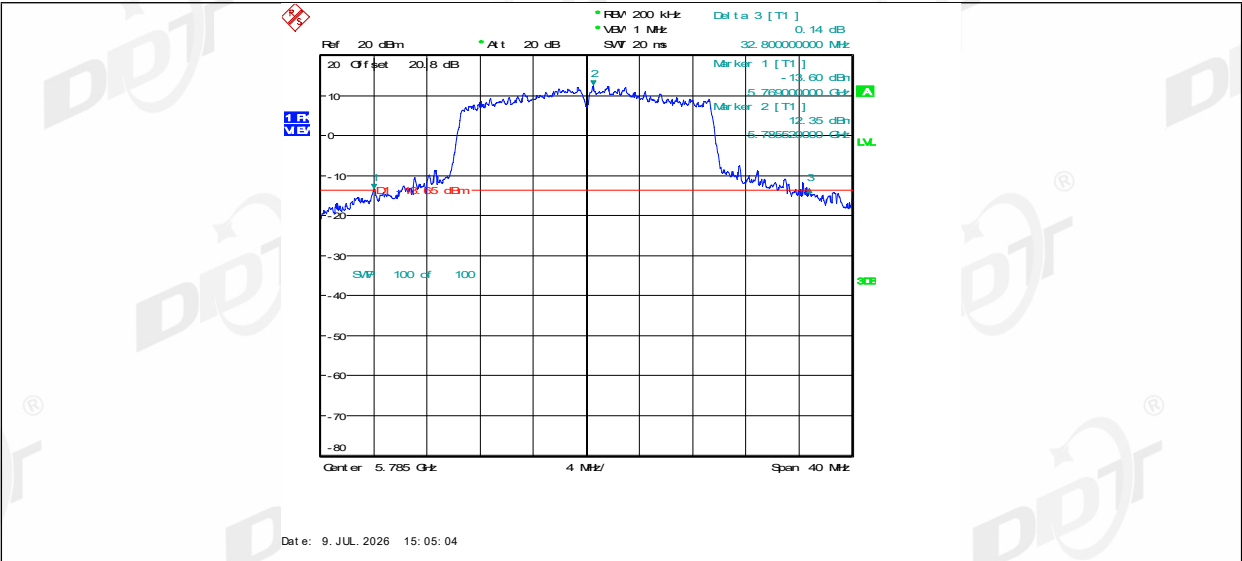
11AX20SISO_Ant1_5720



11AX20SISO_Ant1_5745

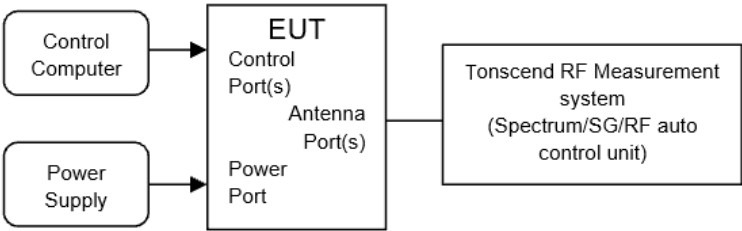


11AX20SISO_Ant1_5785



5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

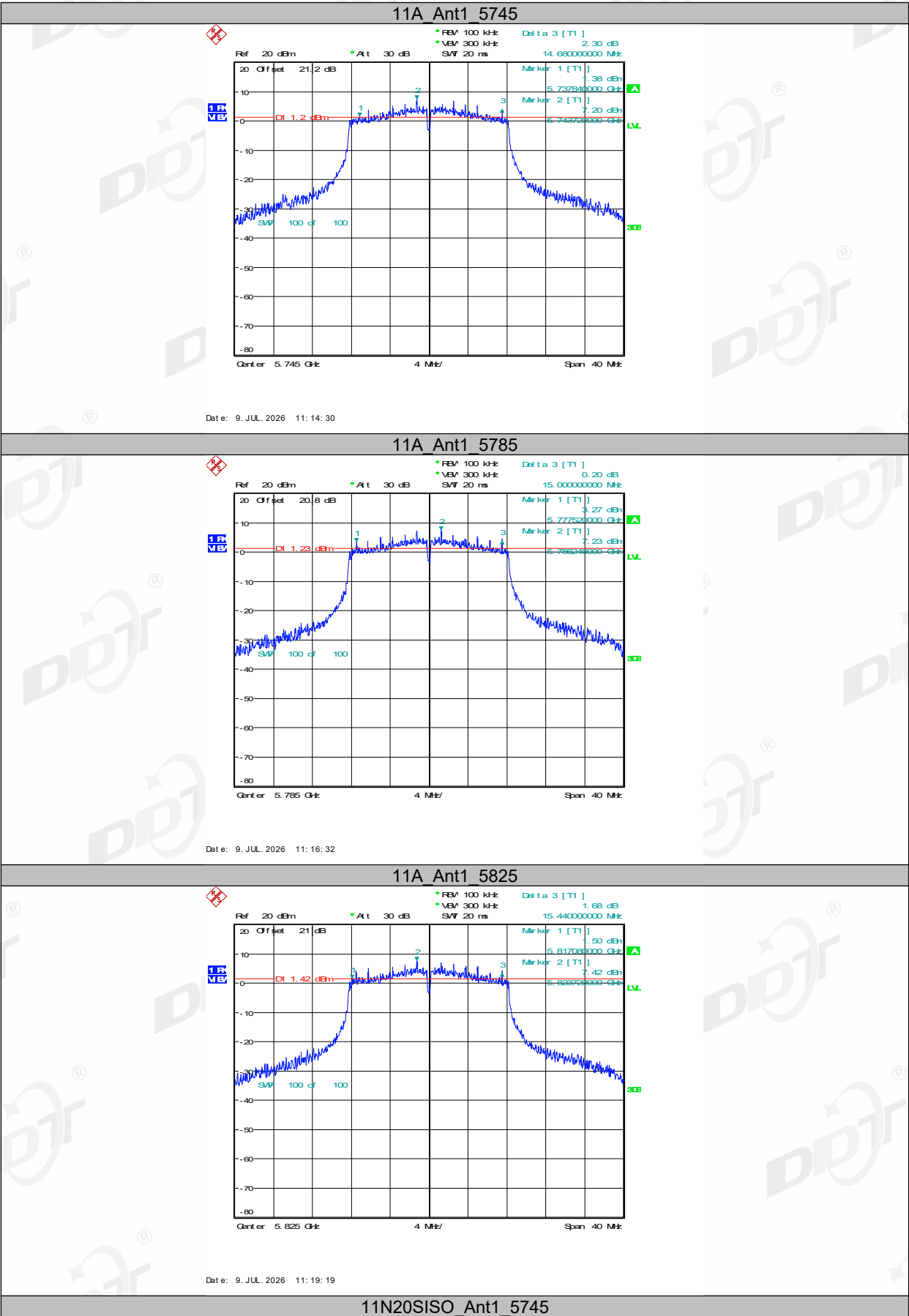
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

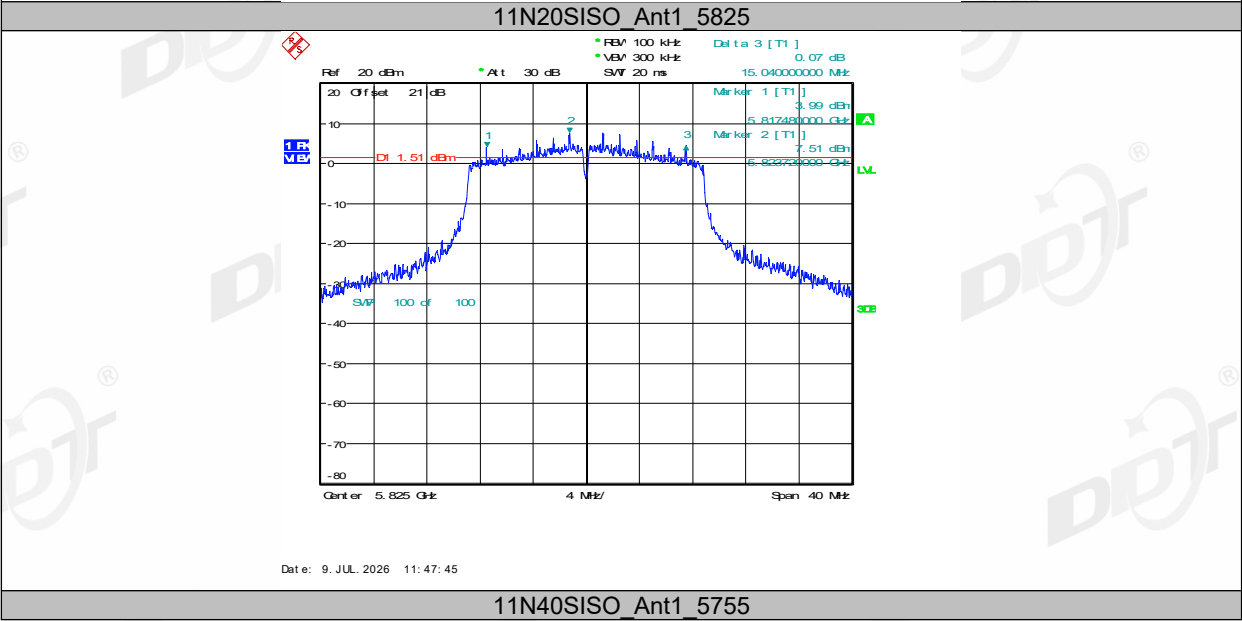
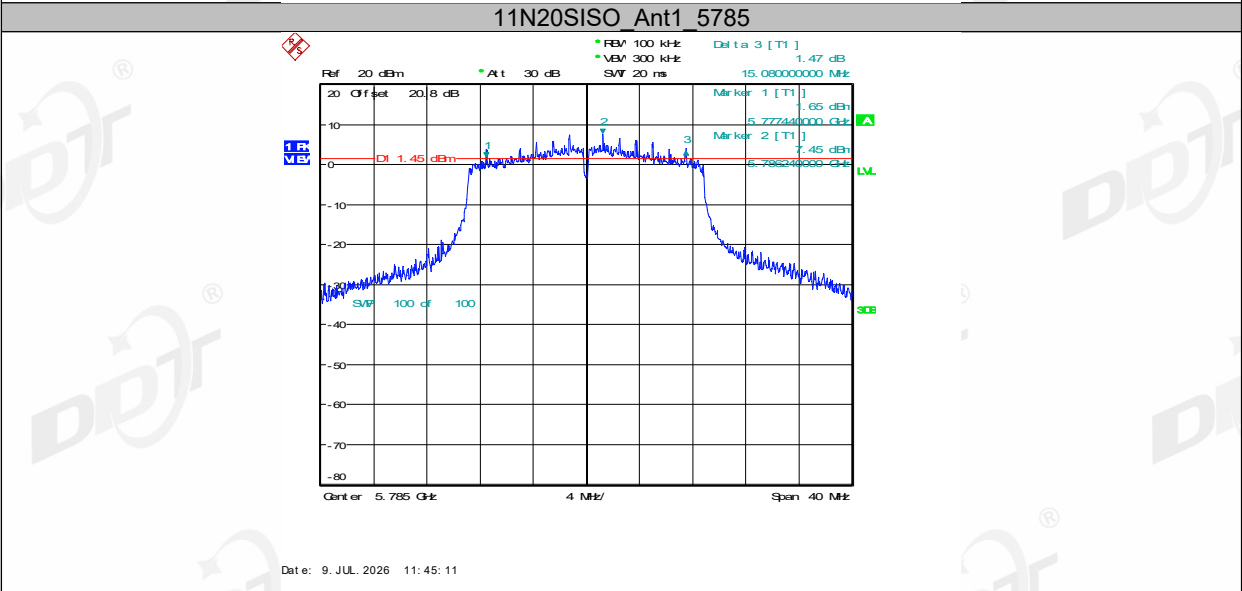
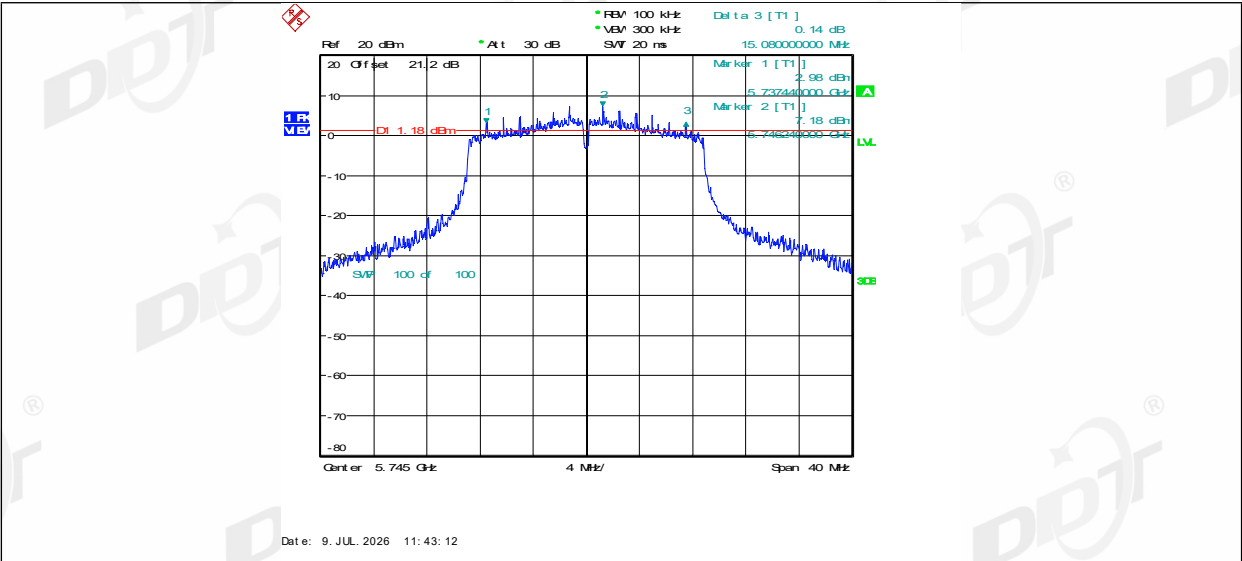
5.4. Test result B4

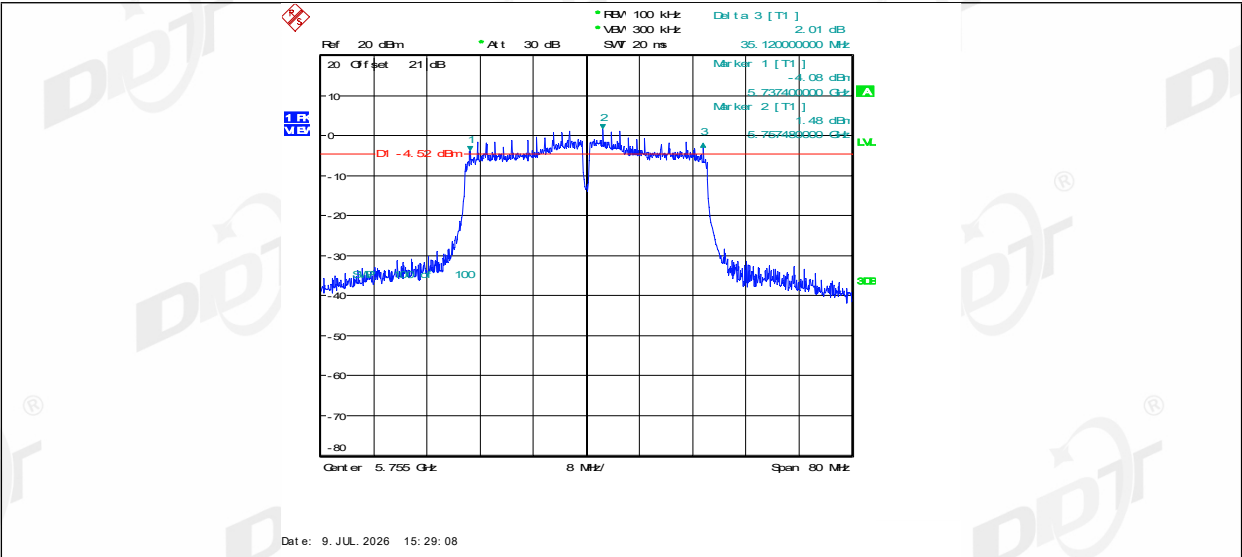
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	27.7-28.7℃,34.5-35.6%RH	Test Date:	2026.6.29-2026.7.9
Test Power Supply:	DC 5V	Sample Number:	S26062423-007

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	14.68	5737.84	5752.52	0.5	PASS
		5785	15.00	5777.52	5792.52	0.5	PASS
		5825	15.44	5817.08	5832.52	0.5	PASS
11N20SISO	Ant1	5745	15.08	5737.44	5752.52	0.5	PASS
		5785	15.08	5777.44	5792.52	0.5	PASS
		5825	15.04	5817.48	5832.52	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	15.08	5737.44	5752.52	0.5	PASS
		5785	15.12	5777.44	5792.56	0.5	PASS
		5825	13.84	5818.68	5832.52	0.5	PASS
11AX20SISO	Ant1	5745	15.36	5737.44	5752.80	0.5	PASS
		5785	15.52	5777.44	5792.96	0.5	PASS
		5825	15.40	5817.44	5832.84	0.5	PASS

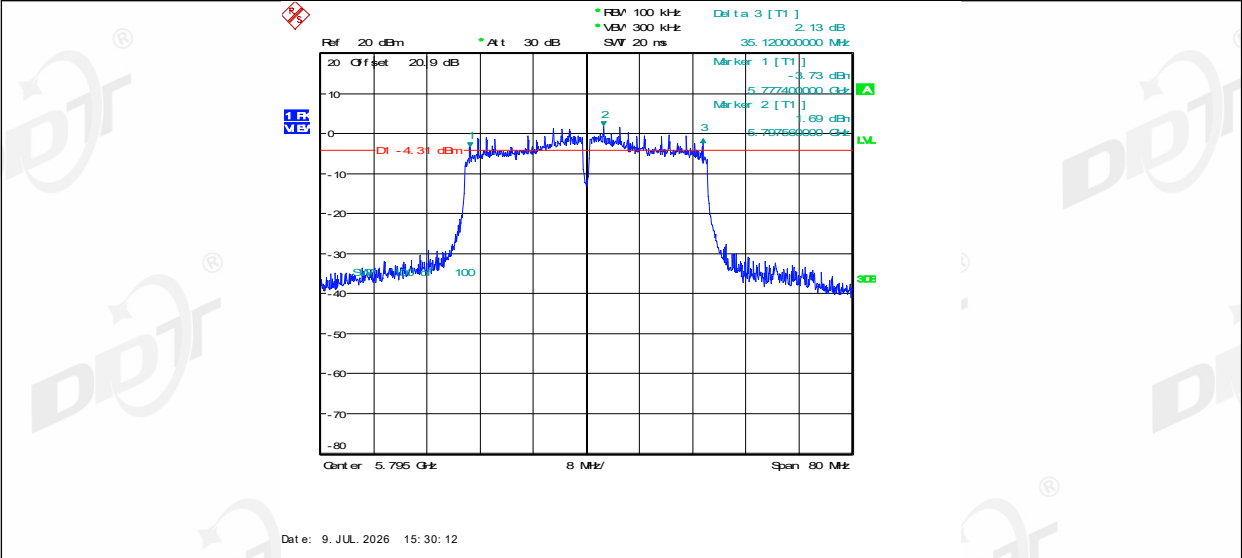
5.5. Test graphs B4



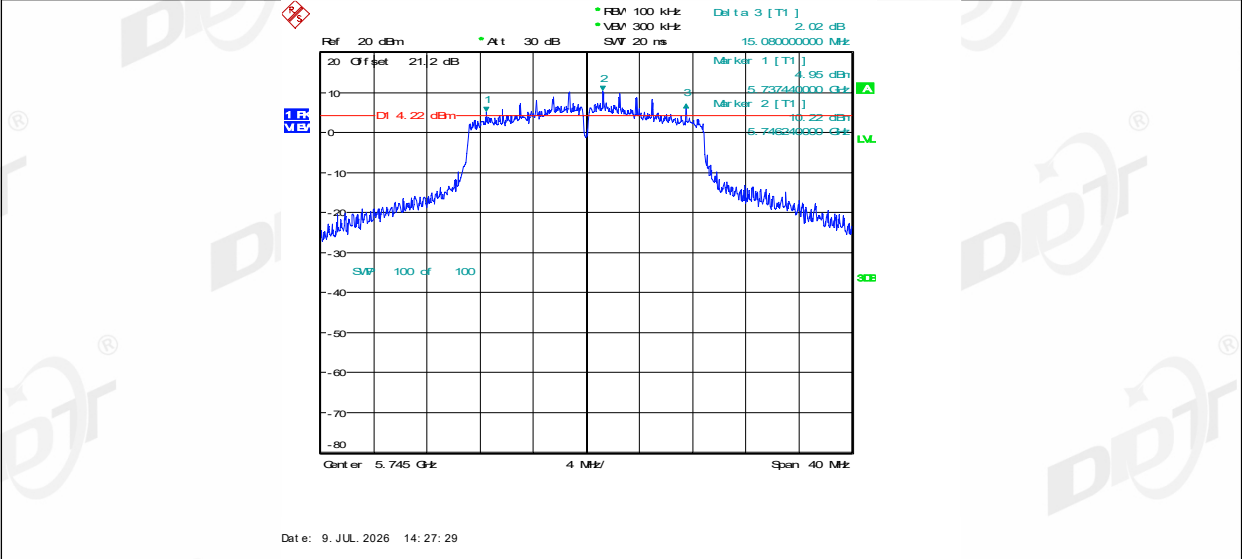




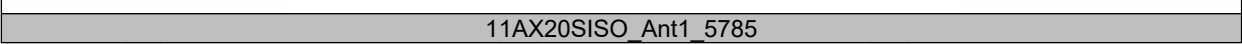
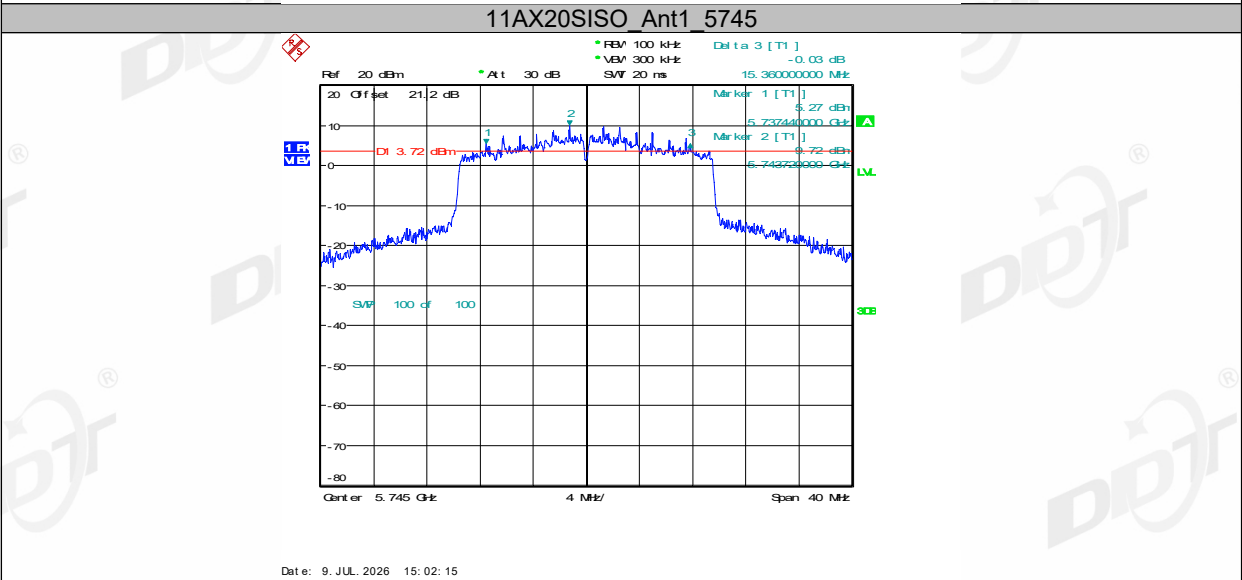
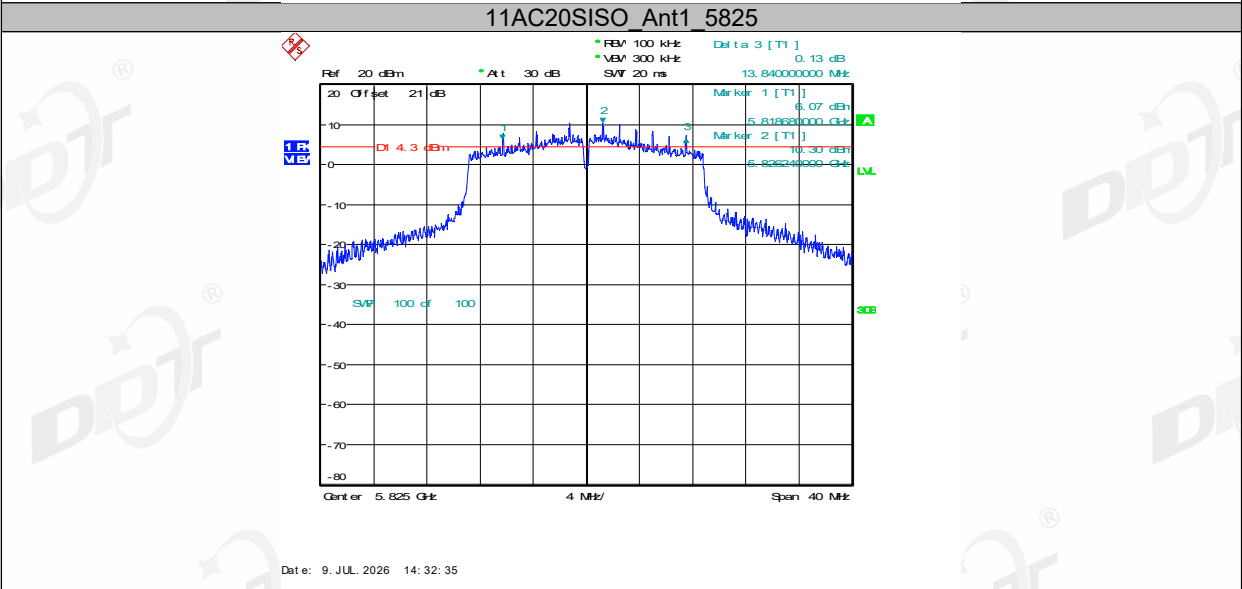
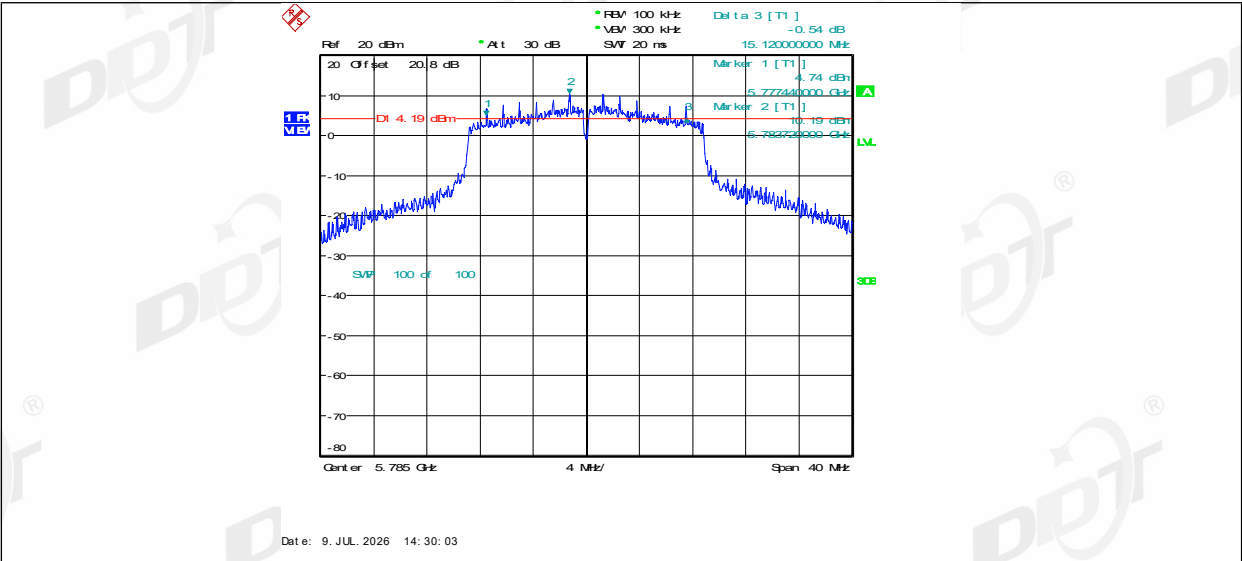
11N40SISO_Ant1_5795

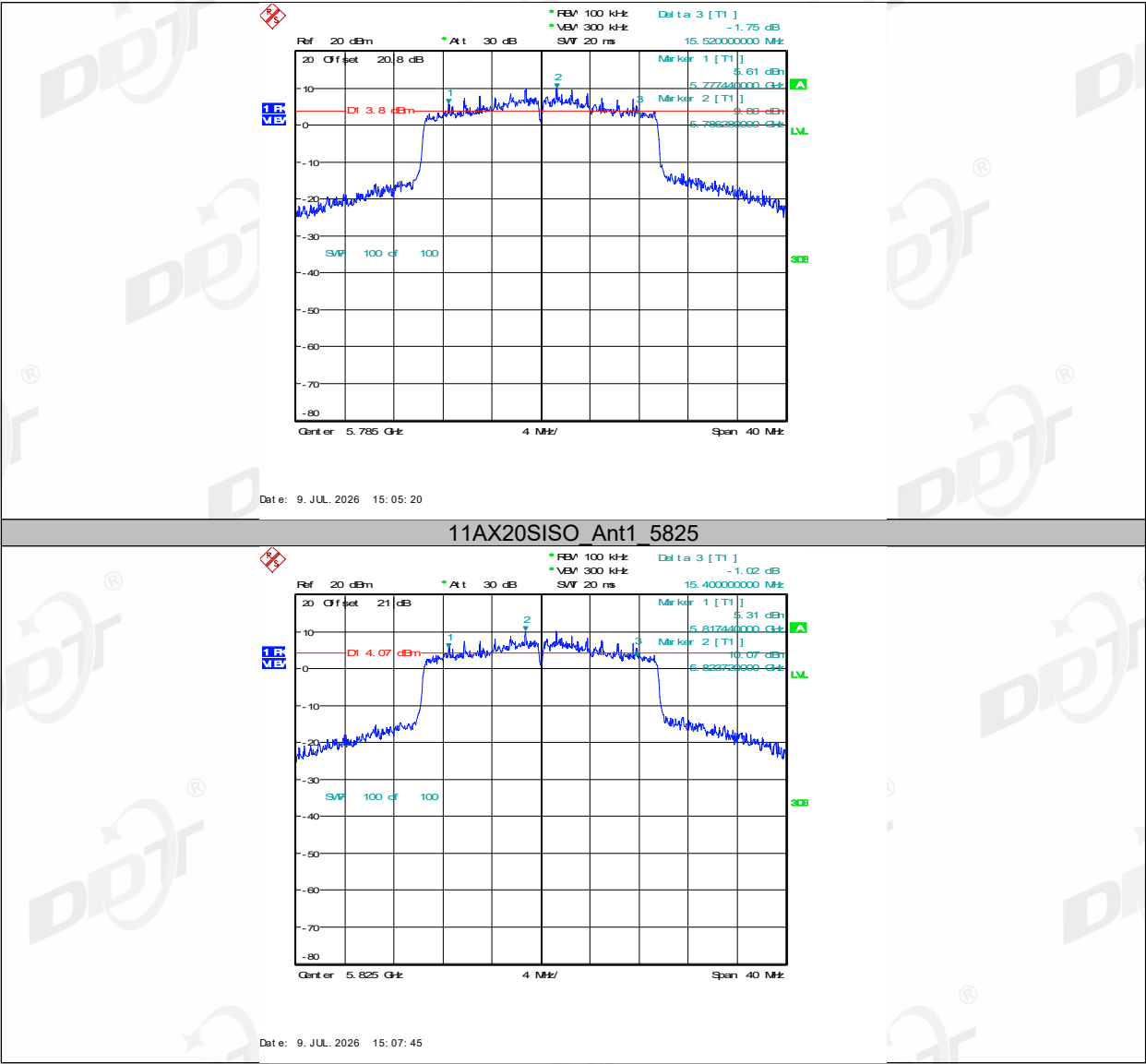


11AC20SISO_Ant1_5745



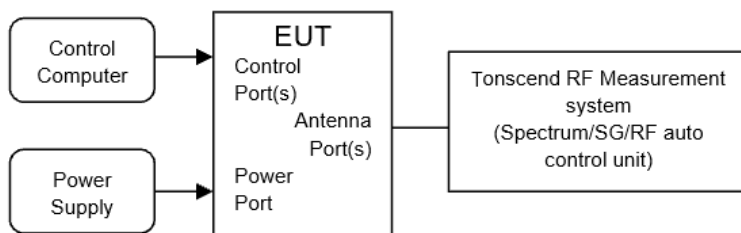
11AC20SISO_Ant1_5785





6. Duty Cycle

6.1. Block diagram of test setup



6.2. Limit

Just for Report.

6.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

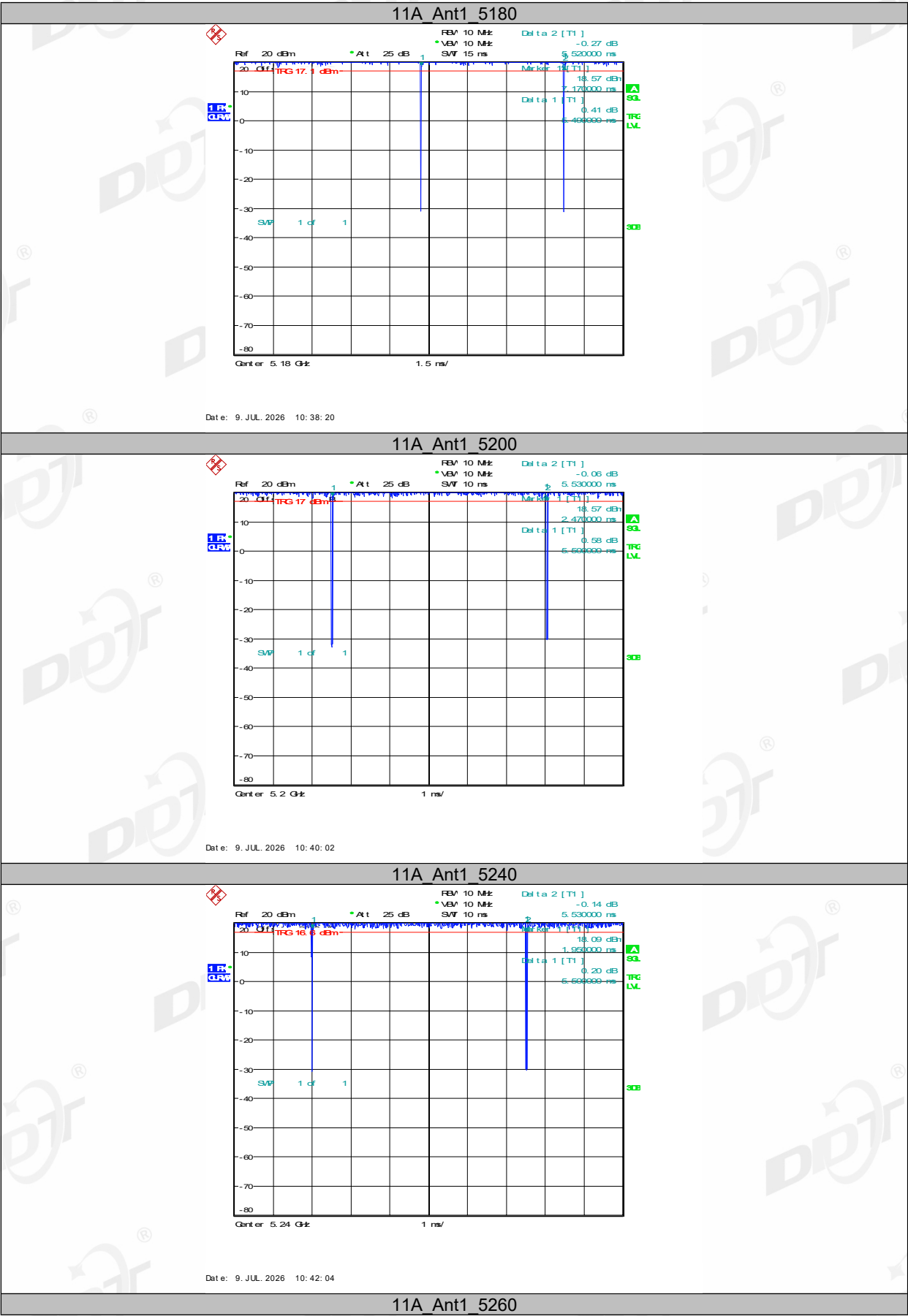
6.4. Test result

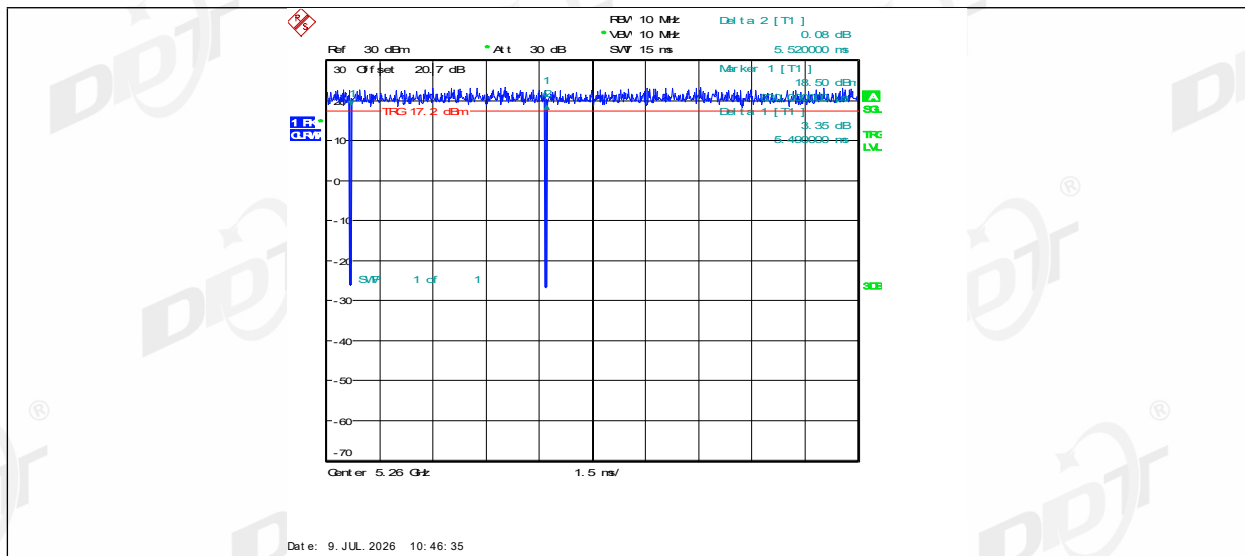
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	27.7-28.7℃,34.5-35.6%RH	Test Date:	2026.6.29-2026.7.9
Test Power Supply:	DC 5V	Sample Number:	S26062423-007

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	5.49	5.52	99.46
		5200	5.50	5.53	99.46
		5240	5.50	5.53	99.46
		5260	5.49	5.52	99.46
		5280	5.50	5.52	99.64
		5320	5.51	5.53	99.64
		5500	5.49	5.52	99.46
		5580	5.50	5.52	99.64
		5700	5.50	5.53	99.46
		5720	5.50	5.53	99.46
		5745	5.50	5.53	99.46
		5785	5.50	5.52	99.64
		5825	5.50	5.53	99.46
		5180	5.09	5.12	99.41
11N20SISO	Ant1	5200	5.10	5.12	99.61
		5240	5.09	5.12	99.41
		5260	5.10	5.12	99.61
		5280	5.10	5.12	99.61
		5320	5.09	5.12	99.41
		5500	5.09	5.12	99.41
		5580	5.10	5.12	99.61
		5700	5.09	5.12	99.41
		5720	5.10	5.12	99.61
		5745	5.10	5.12	99.61
		5785	5.09	5.12	99.41
		5825	5.10	5.13	99.42
		5190	2.48	2.51	98.80
11N40SISO	Ant1	5230	2.48	2.51	98.80
		5270	2.48	2.51	98.80
		5310	2.48	2.51	98.80
		5510	2.49	2.51	99.20
		5550	2.49	2.51	99.20
		5670	2.48	2.51	98.80
		5710	2.49	2.51	99.20
		5755	2.48	2.51	98.80
		5795	2.48	2.51	98.80
		5180	5.10	5.13	99.42
11AC20SISO	Ant1	5200	5.11	5.14	99.42
		5240	5.11	5.14	99.42
		5260	5.11	5.13	99.61
		5280	5.11	5.14	99.42
		5320	5.11	5.13	99.61
		5500	5.11	5.14	99.42
		5580	5.11	5.13	99.61
		5700	5.11	5.14	99.42
		5720	5.11	5.14	99.42
		5745	5.10	5.13	99.42
		5785	5.11	5.13	99.61
		5825	5.11	5.13	99.61
		5180	3.88	3.91	99.23
11AX20SISO	Ant1	5200	3.88	3.91	99.23
		5240	3.88	3.91	99.23
		5260	3.89	3.95	98.48
		5280	3.88	3.91	99.23

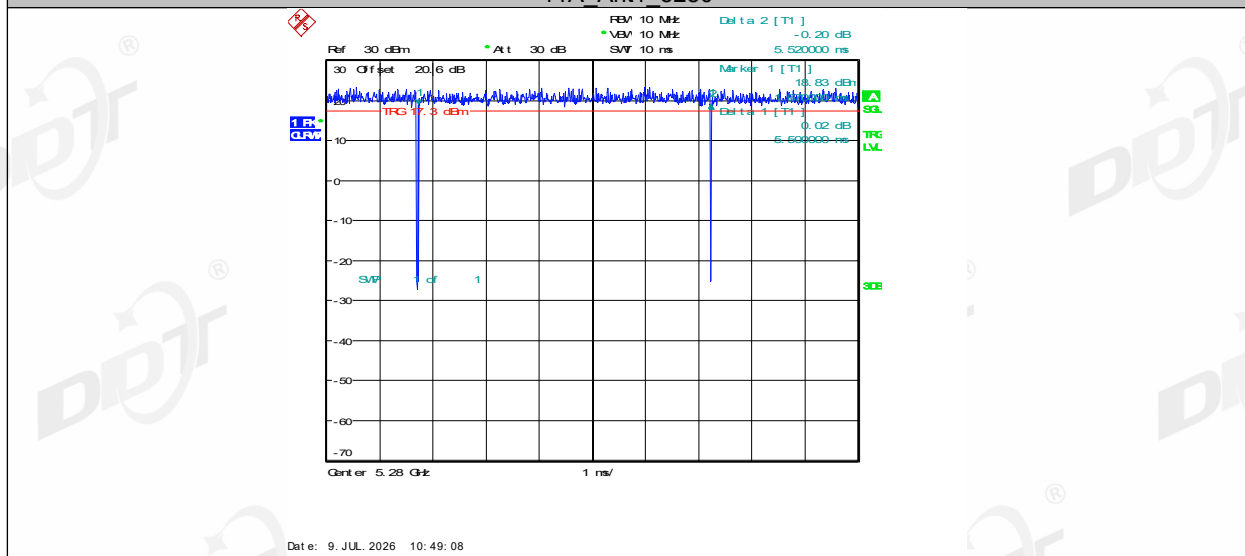
		5320	3.89	3.92	99.23
		5500	3.88	3.91	99.23
		5580	3.88	3.91	99.23
		5700	3.88	3.91	99.23
		5720	3.89	3.92	99.23
		5745	3.89	3.91	99.49
		5785	3.88	3.91	99.23
		5825	3.88	3.91	99.23

6.5. Test graphs

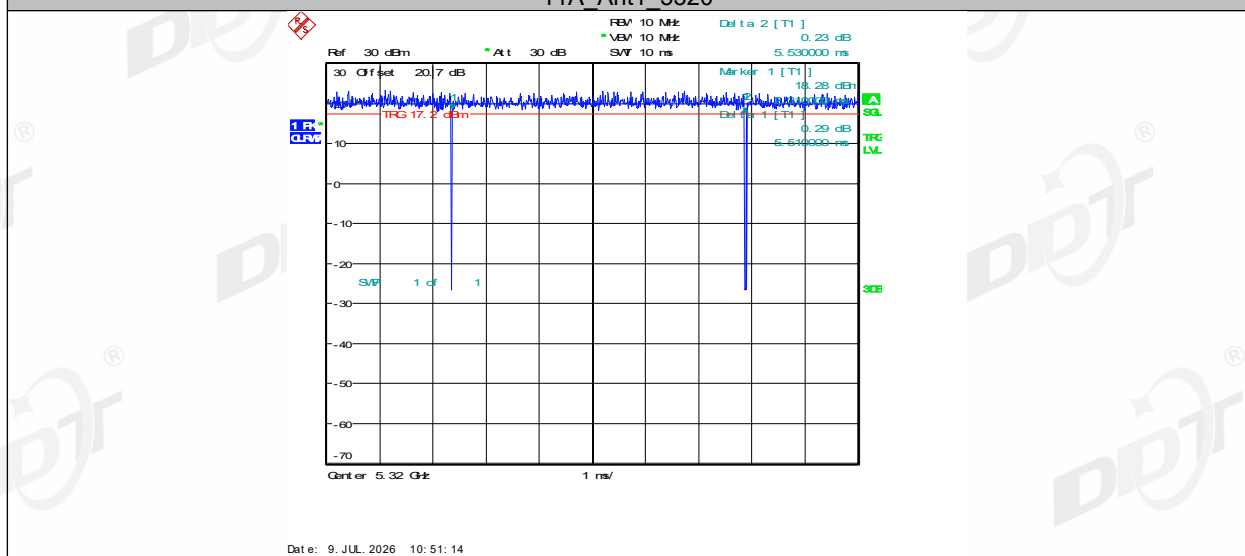




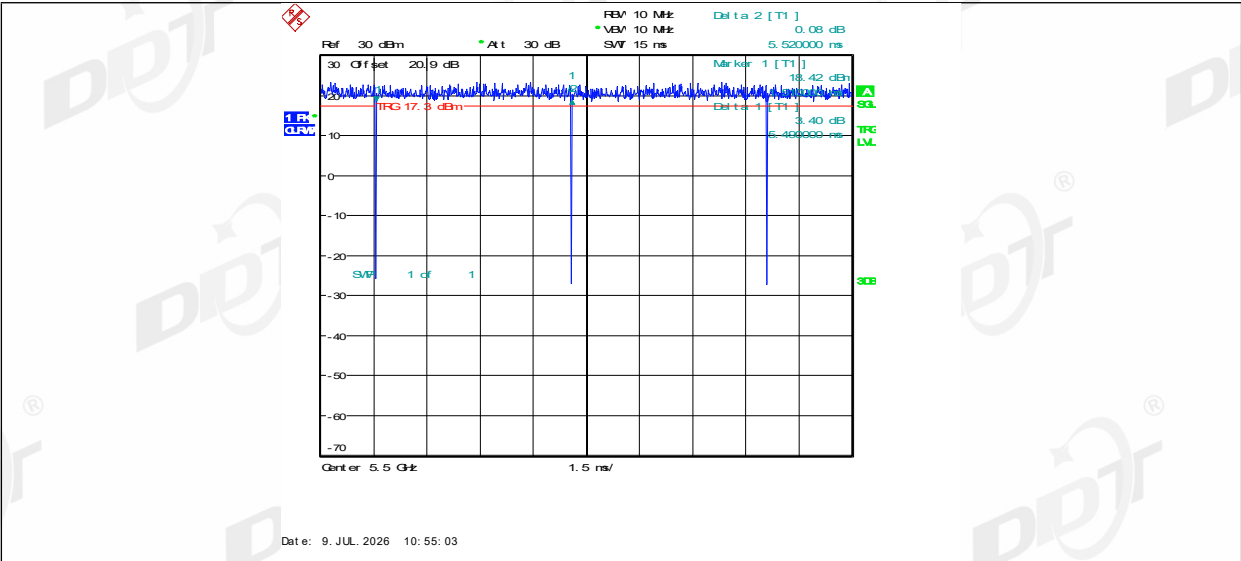
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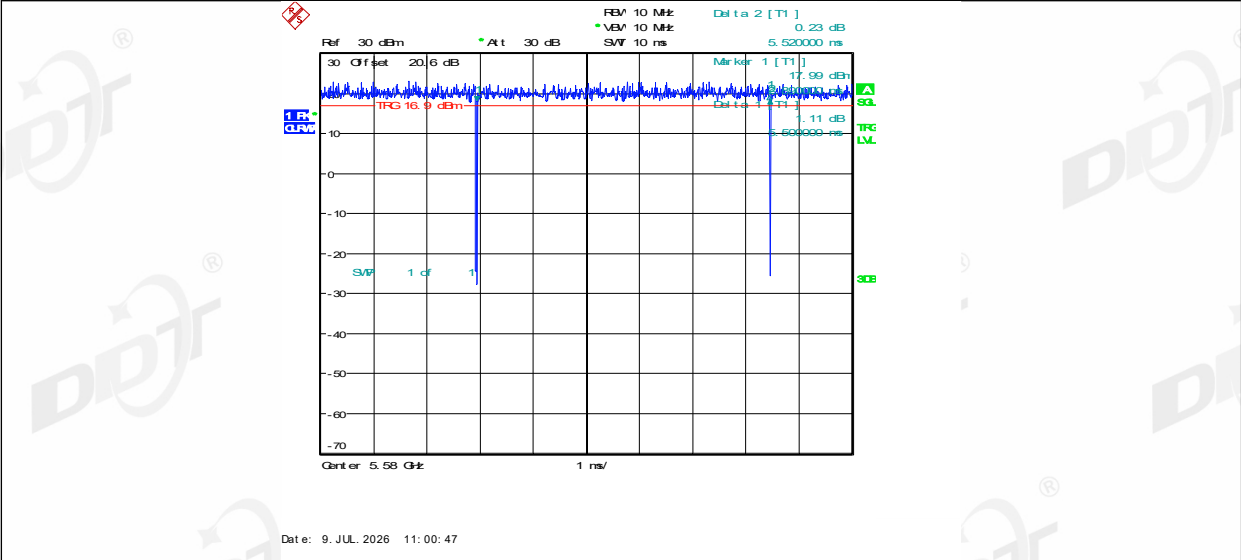
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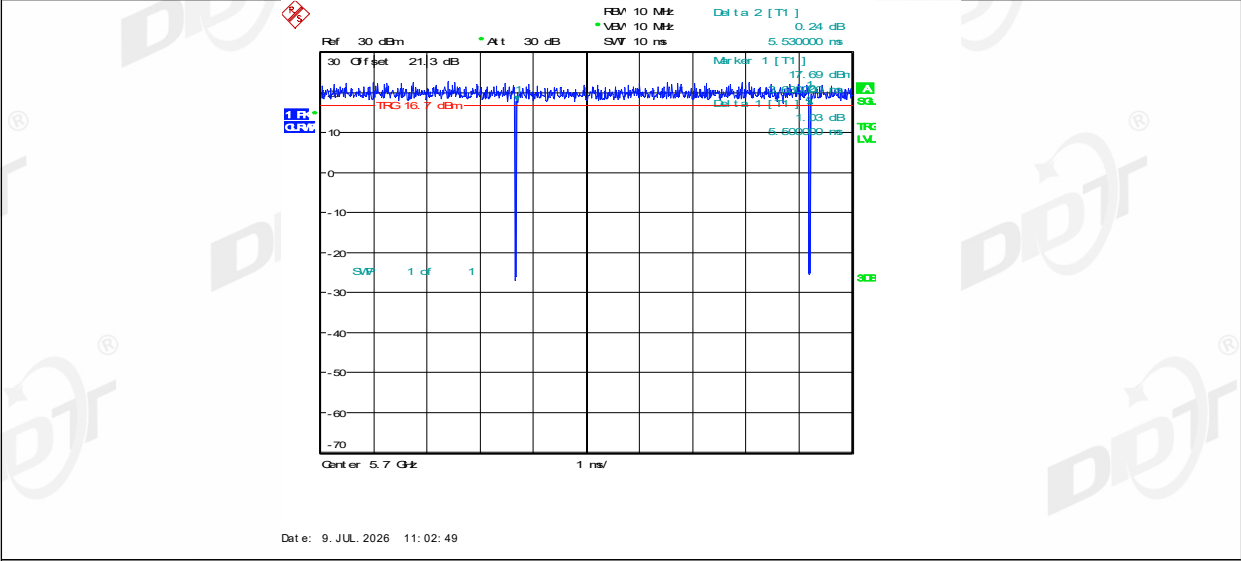
11A Ant1 5500



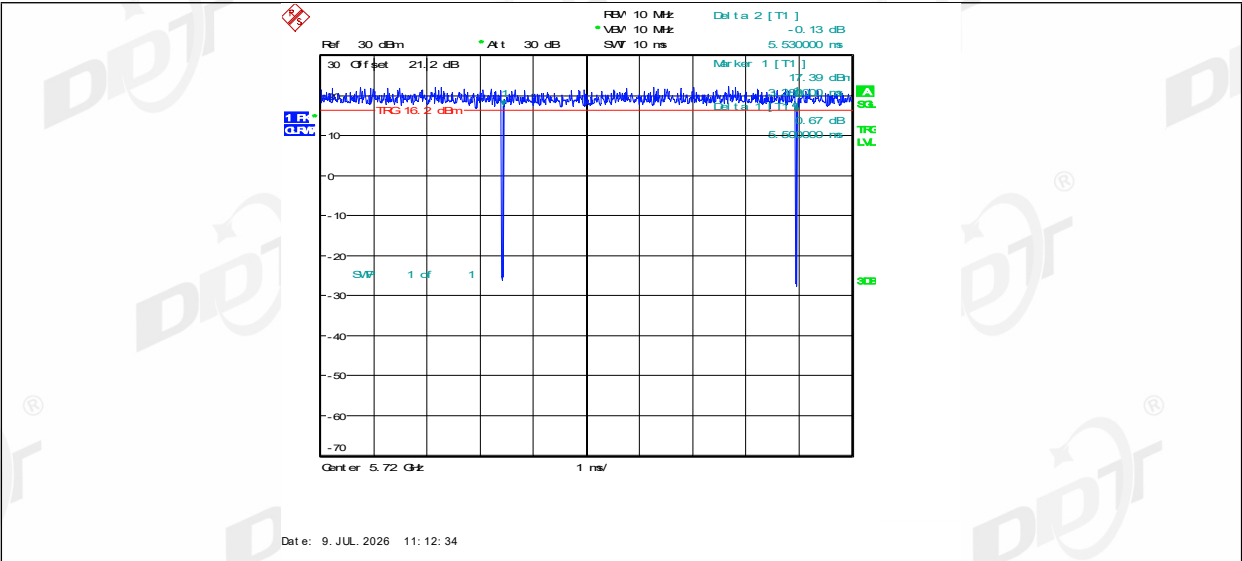
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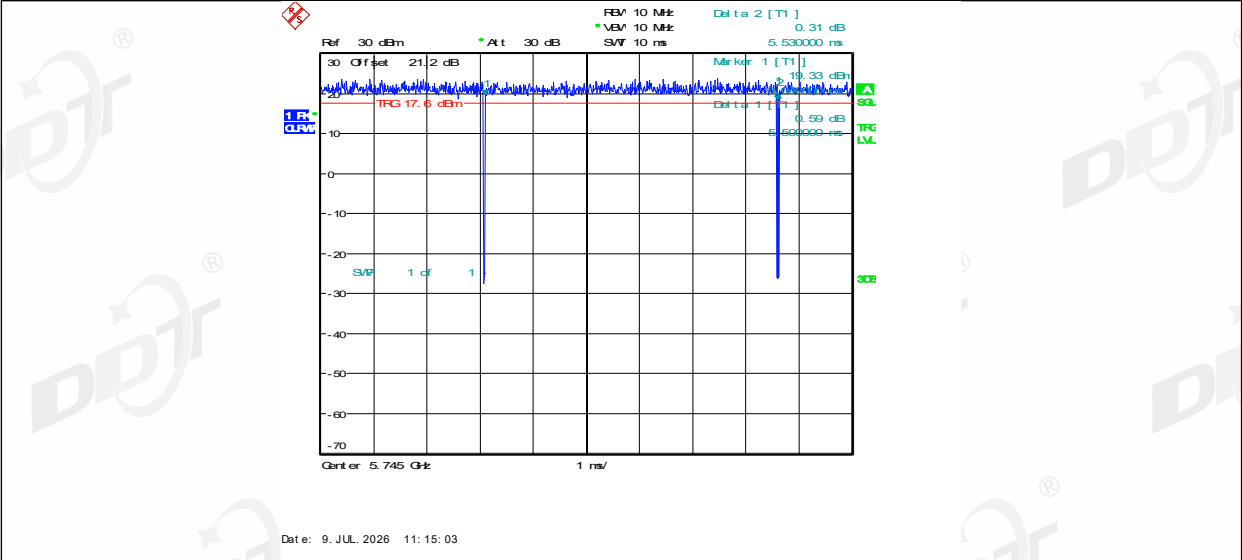
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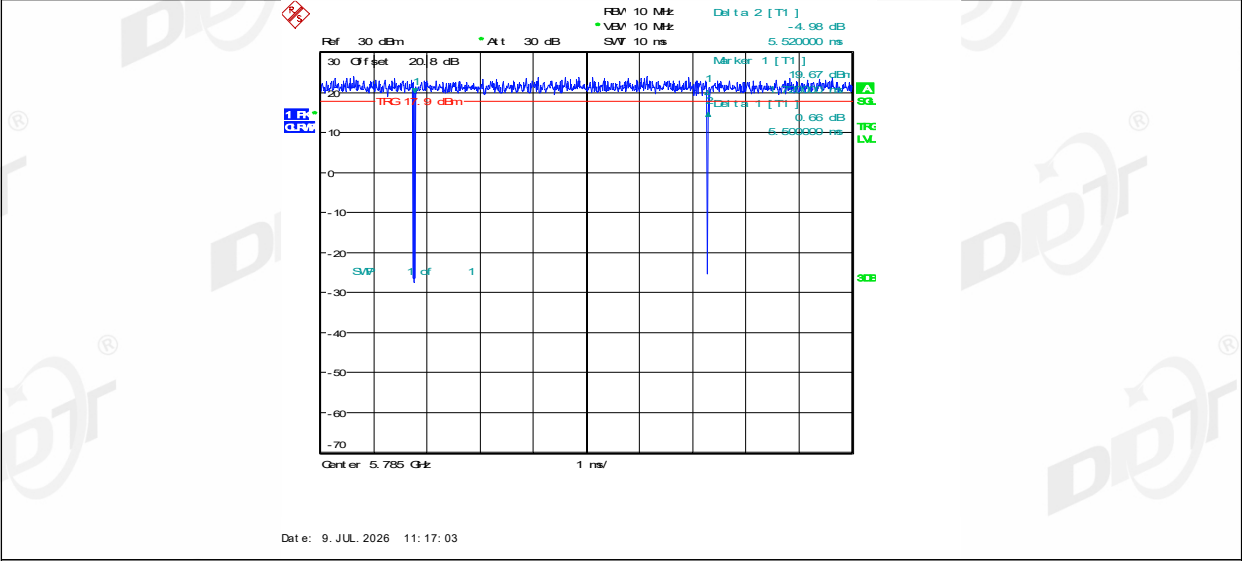
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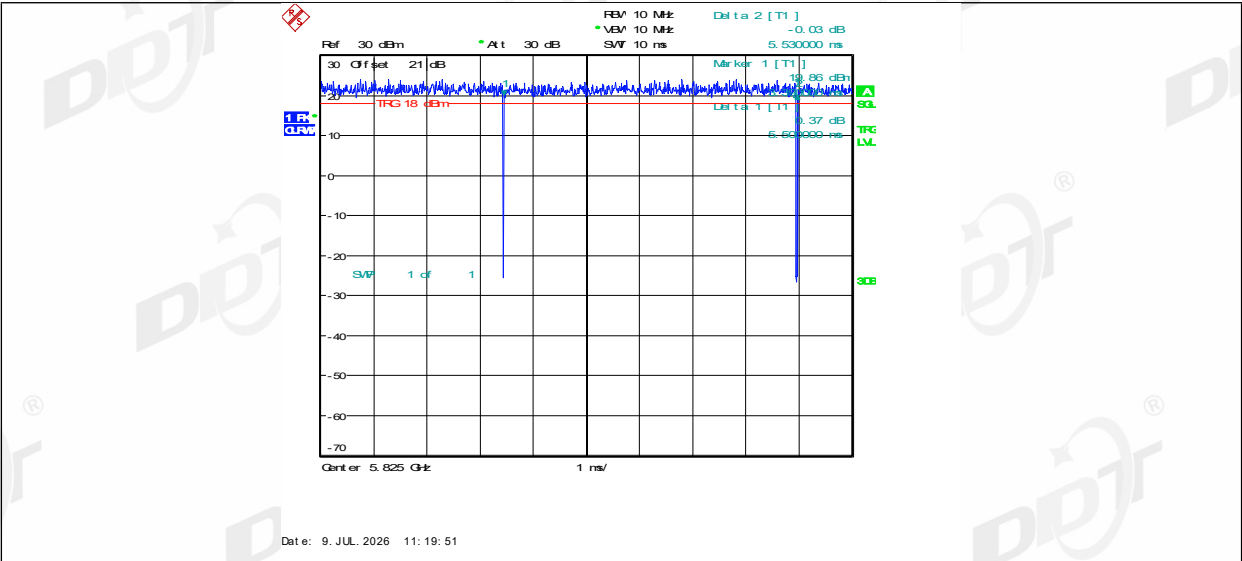
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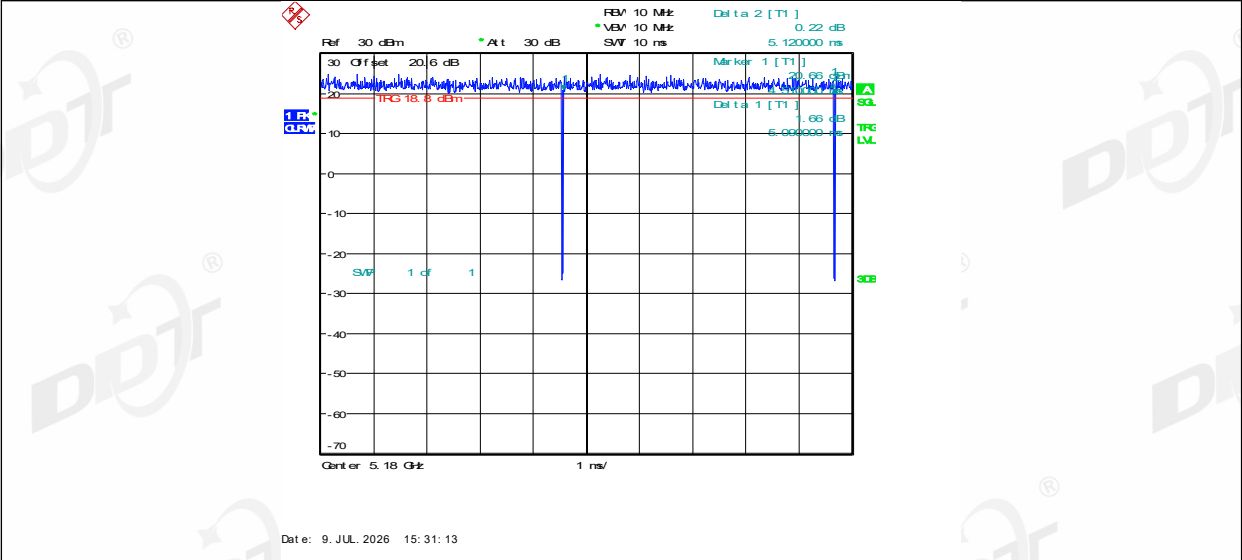
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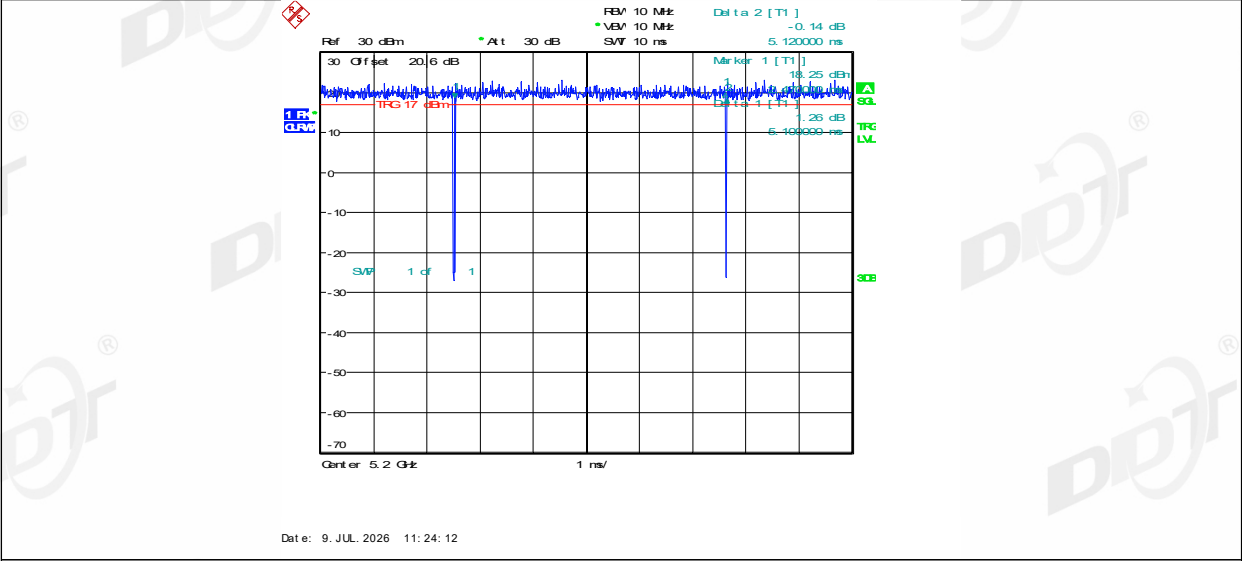
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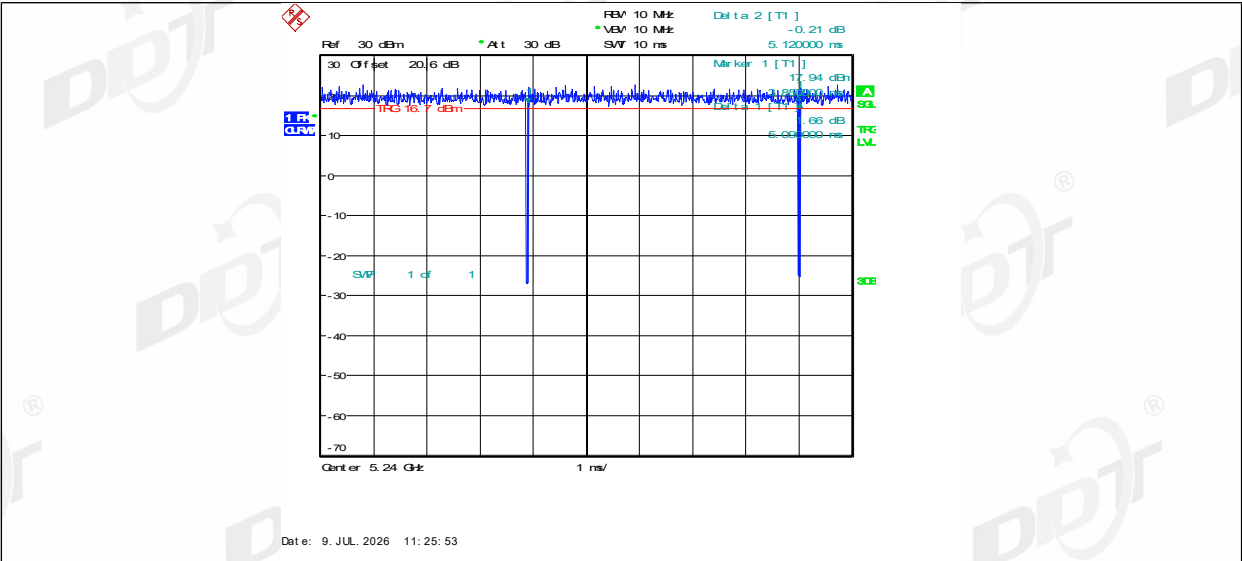
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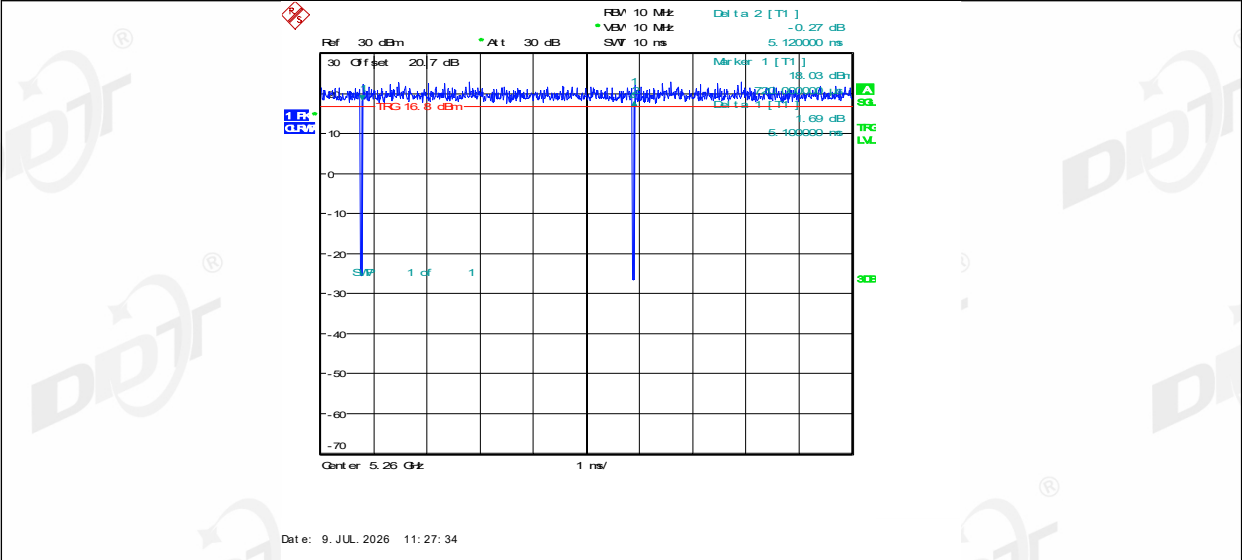
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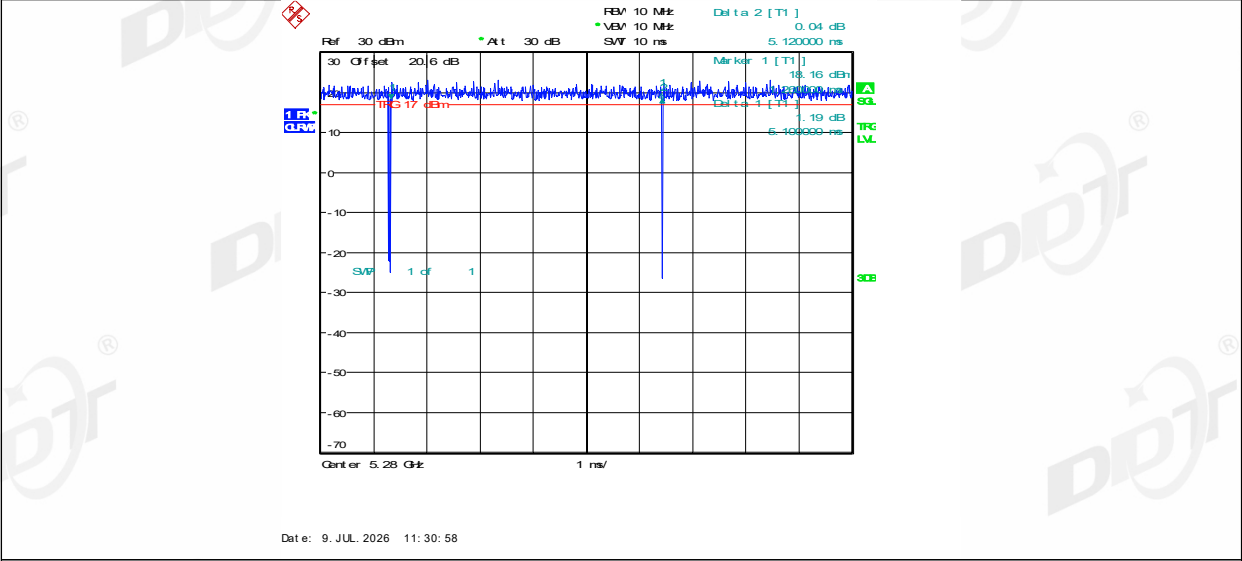
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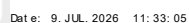
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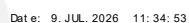
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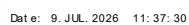
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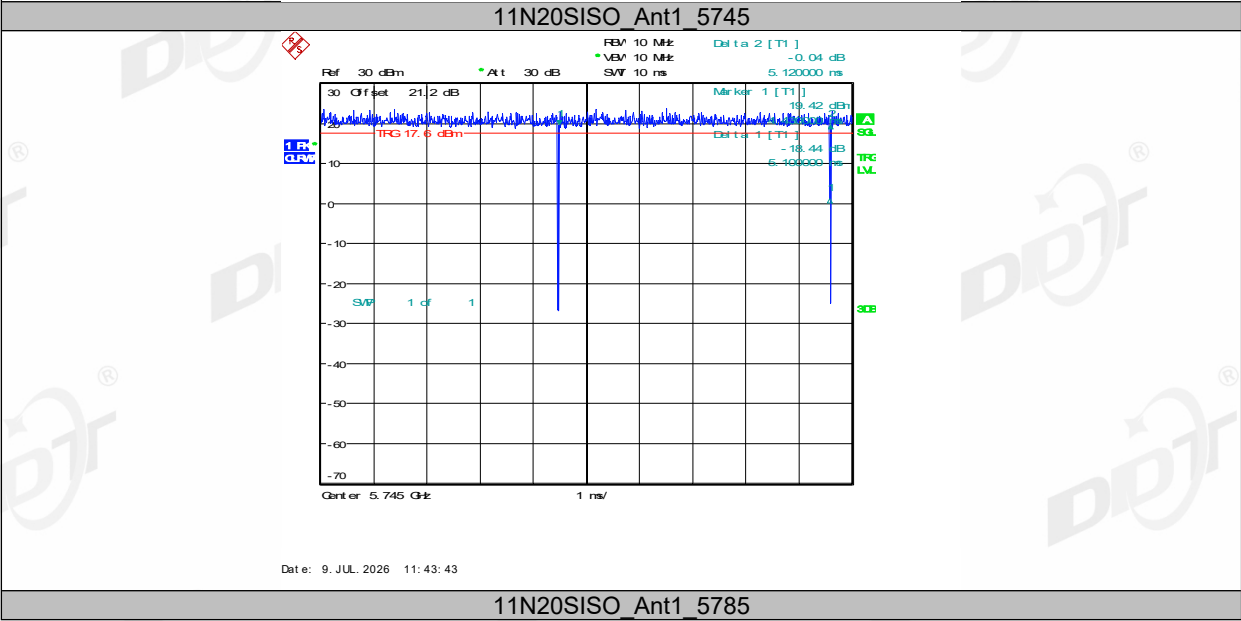
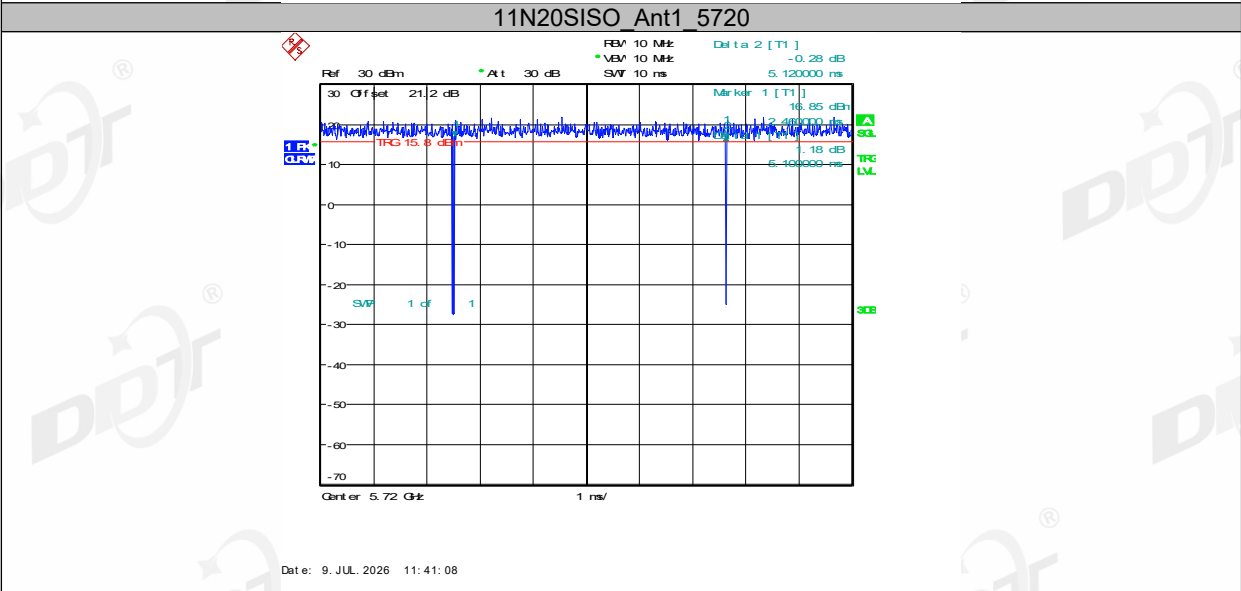
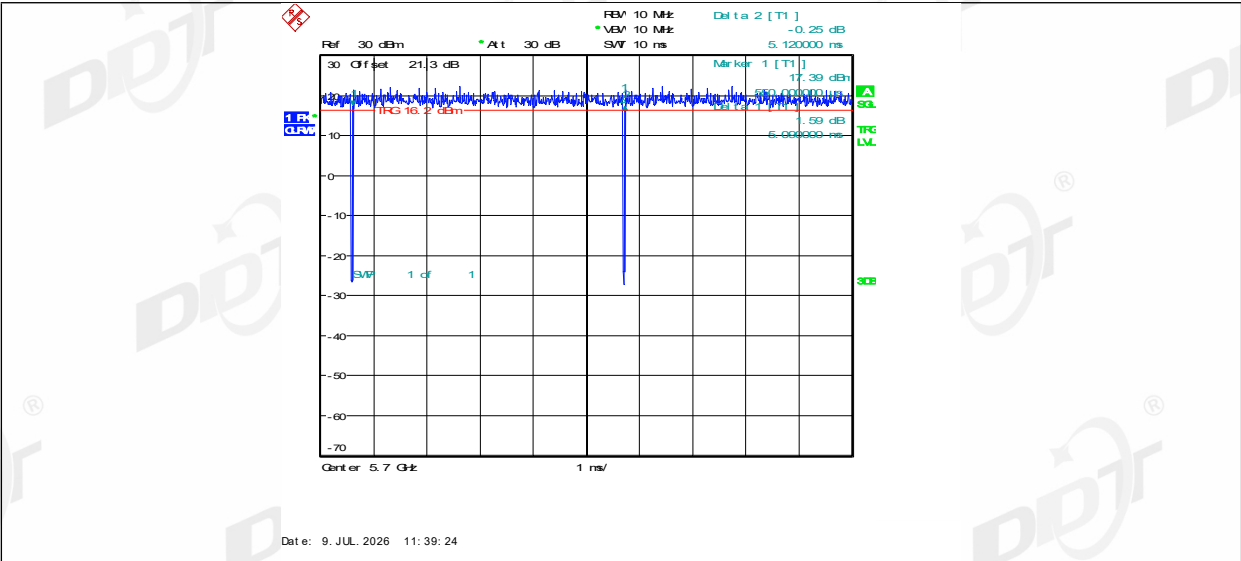
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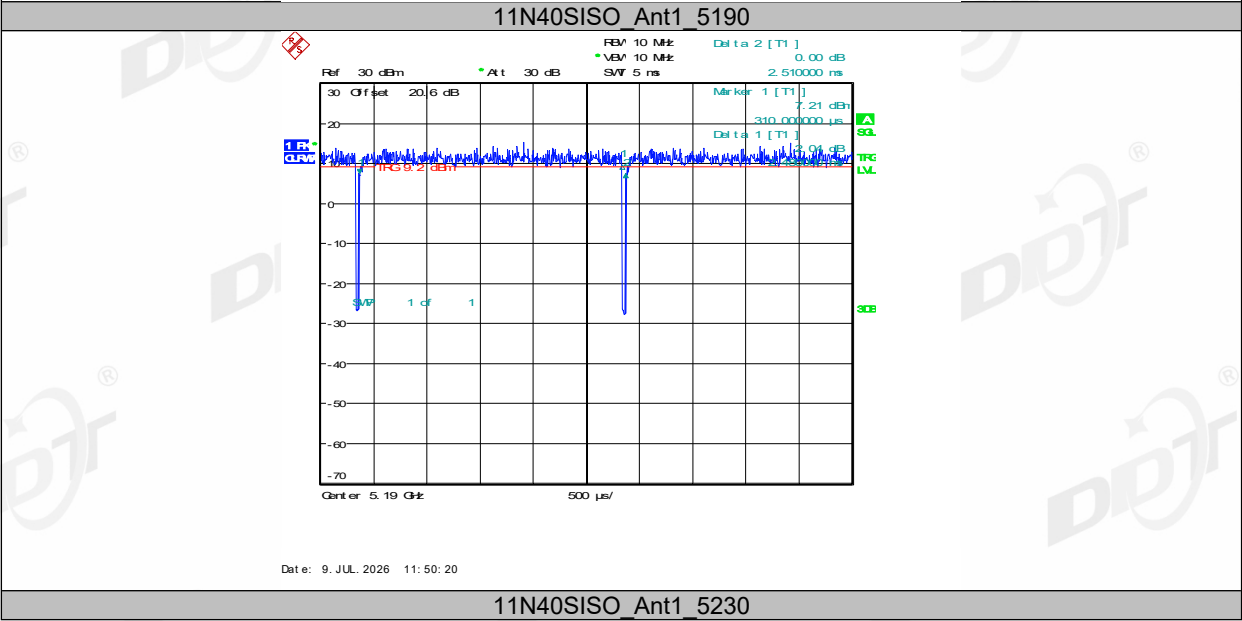
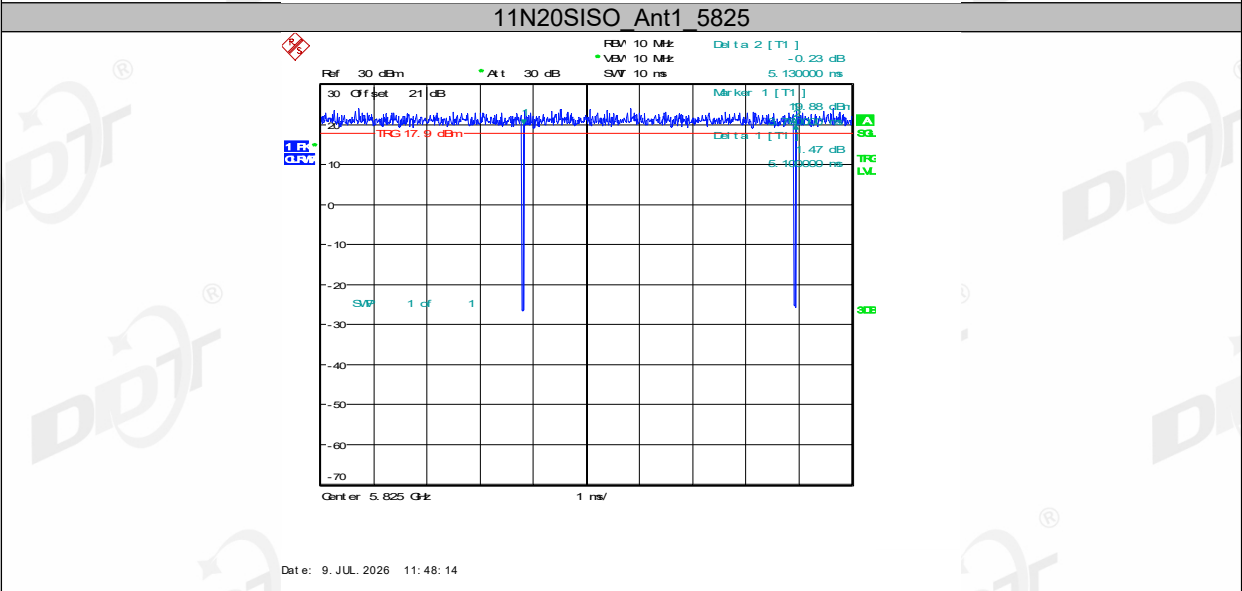
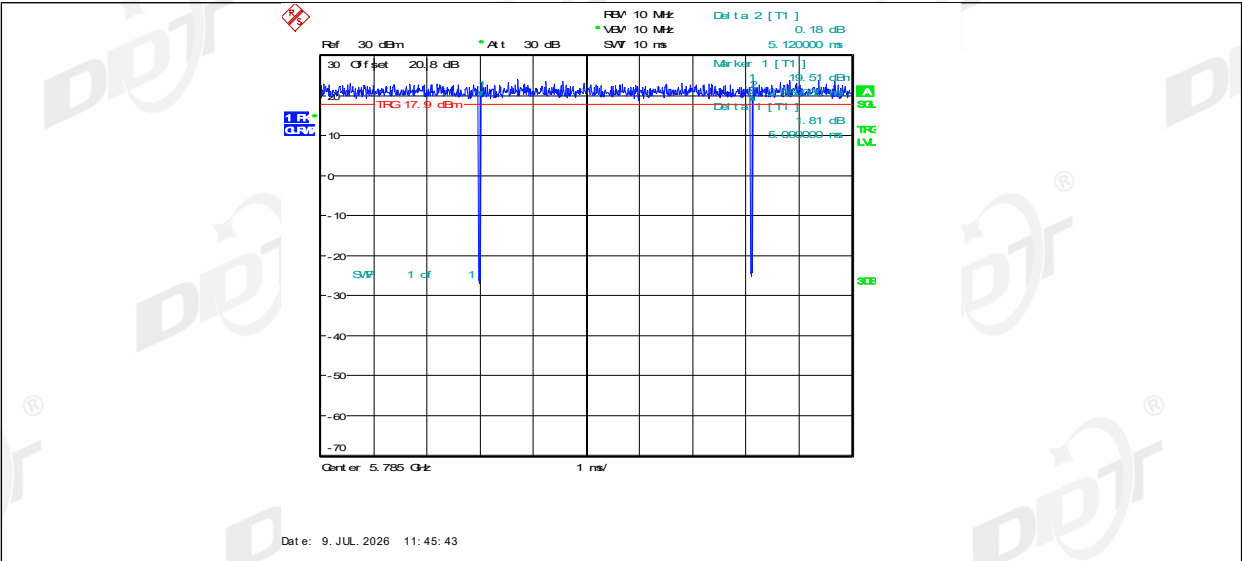


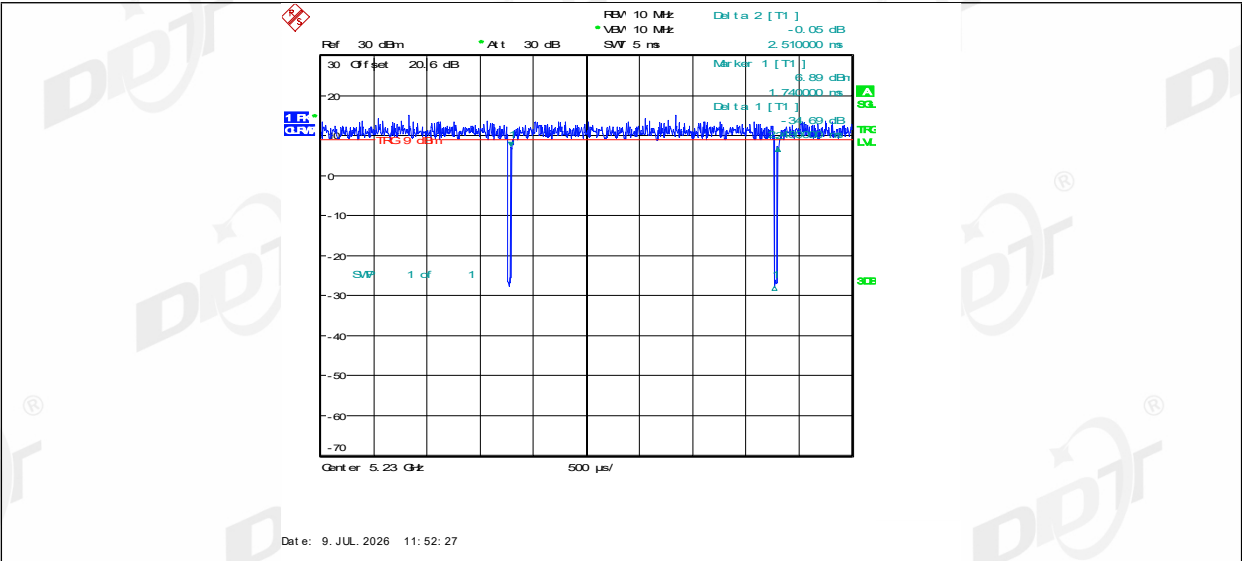
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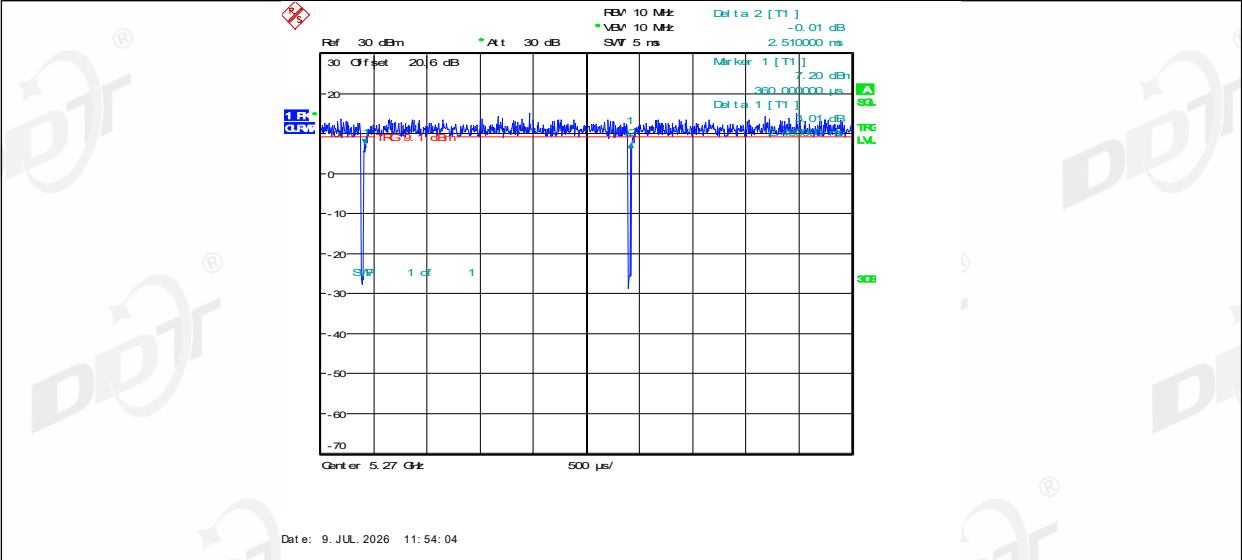
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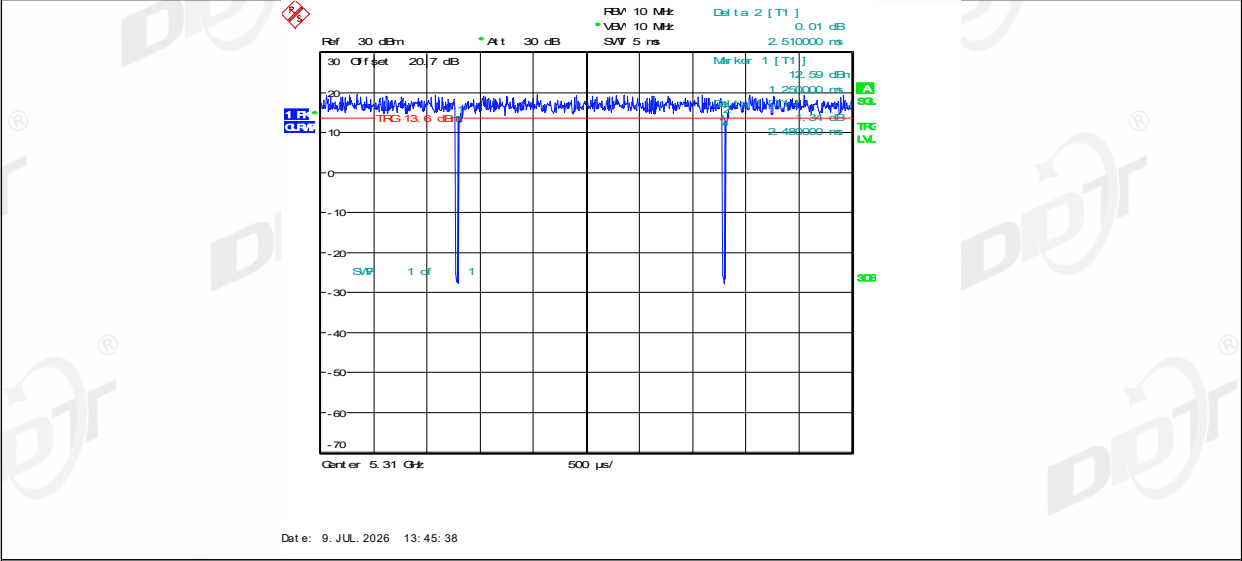




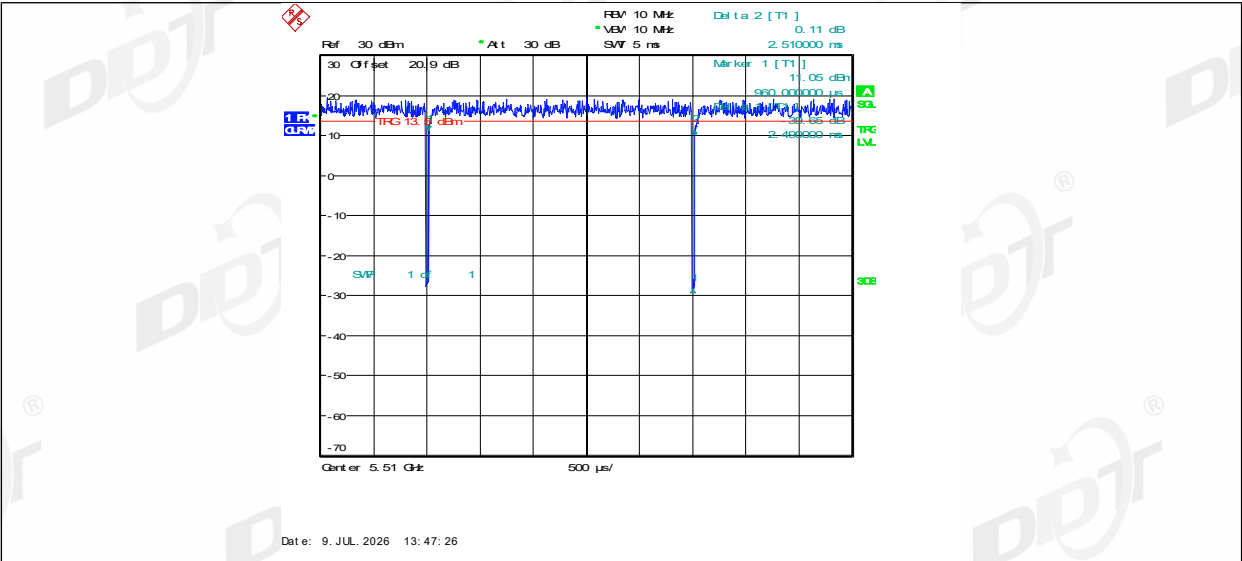
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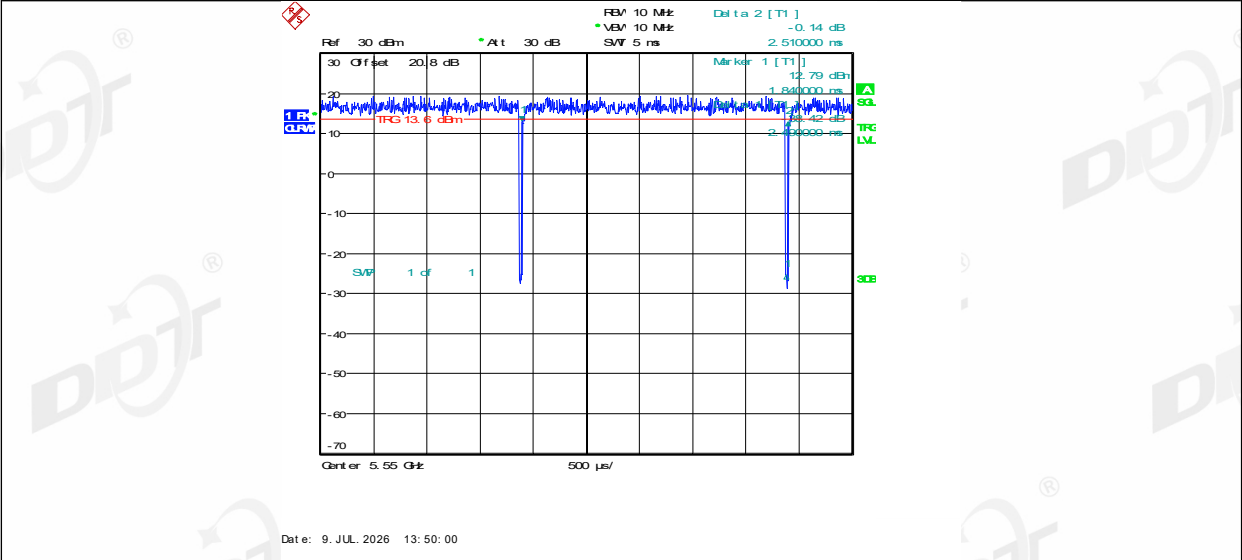
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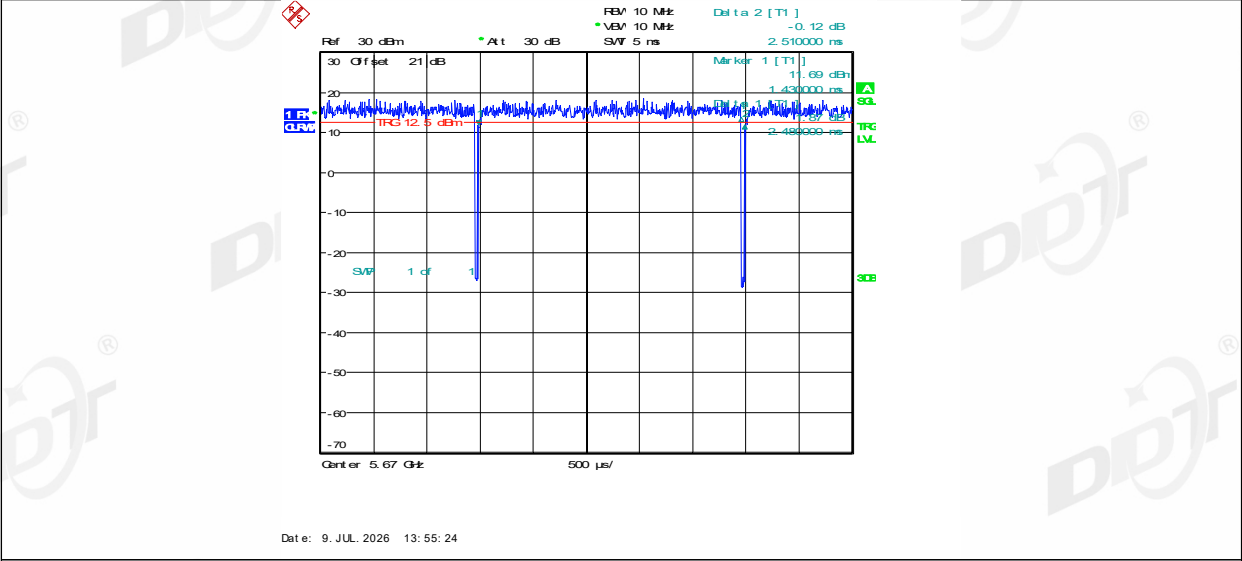
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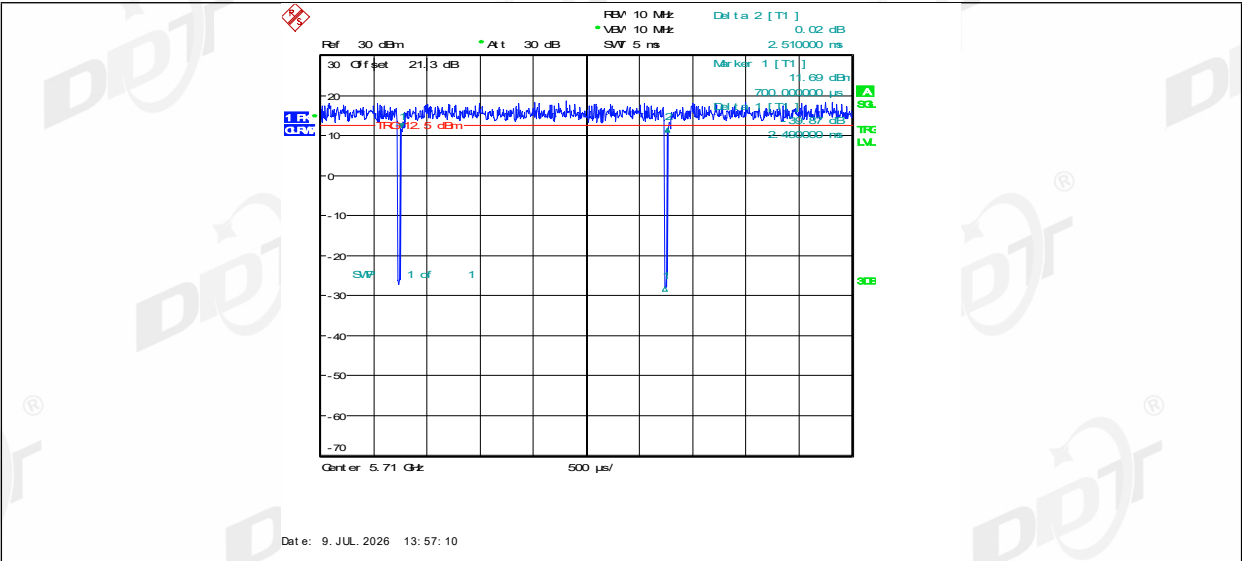
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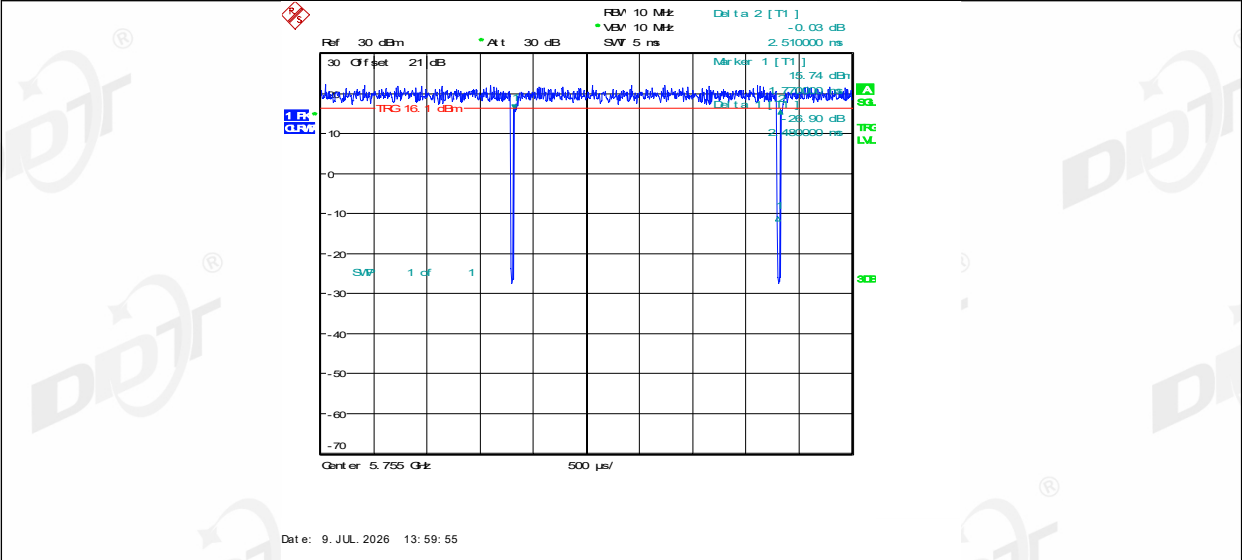
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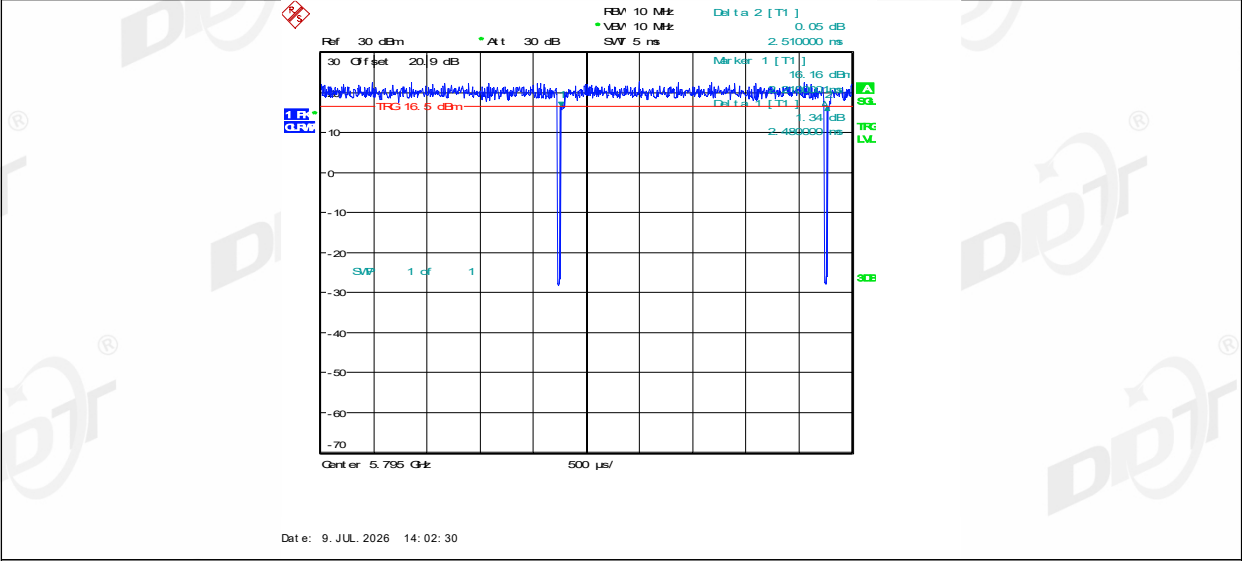
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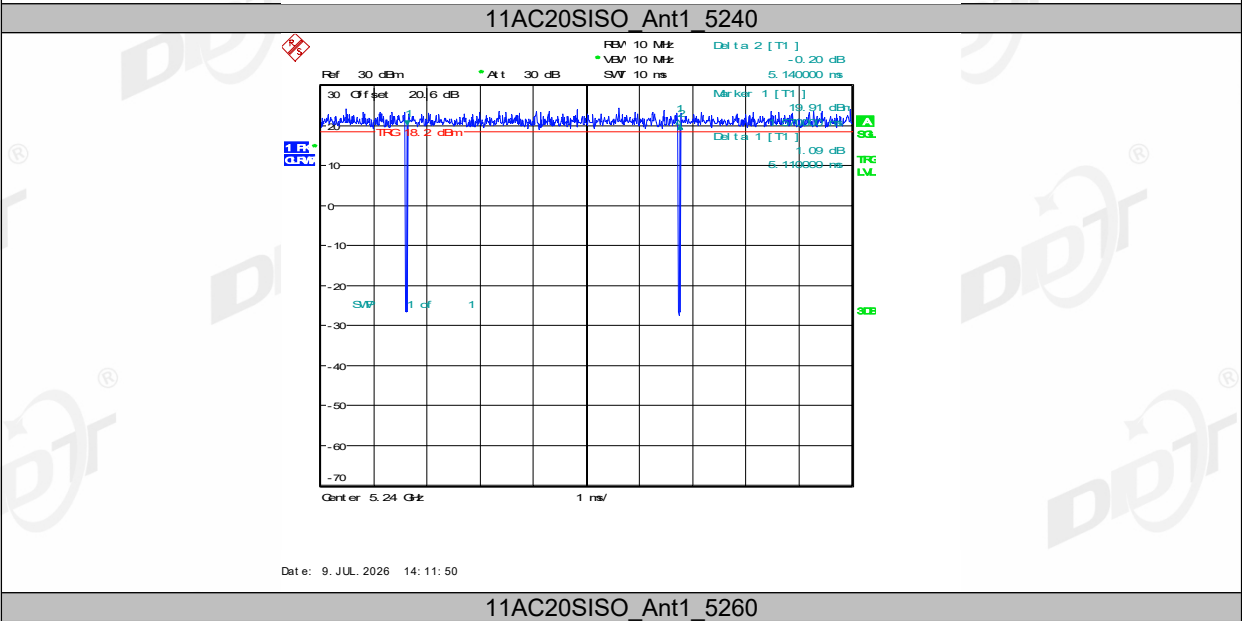
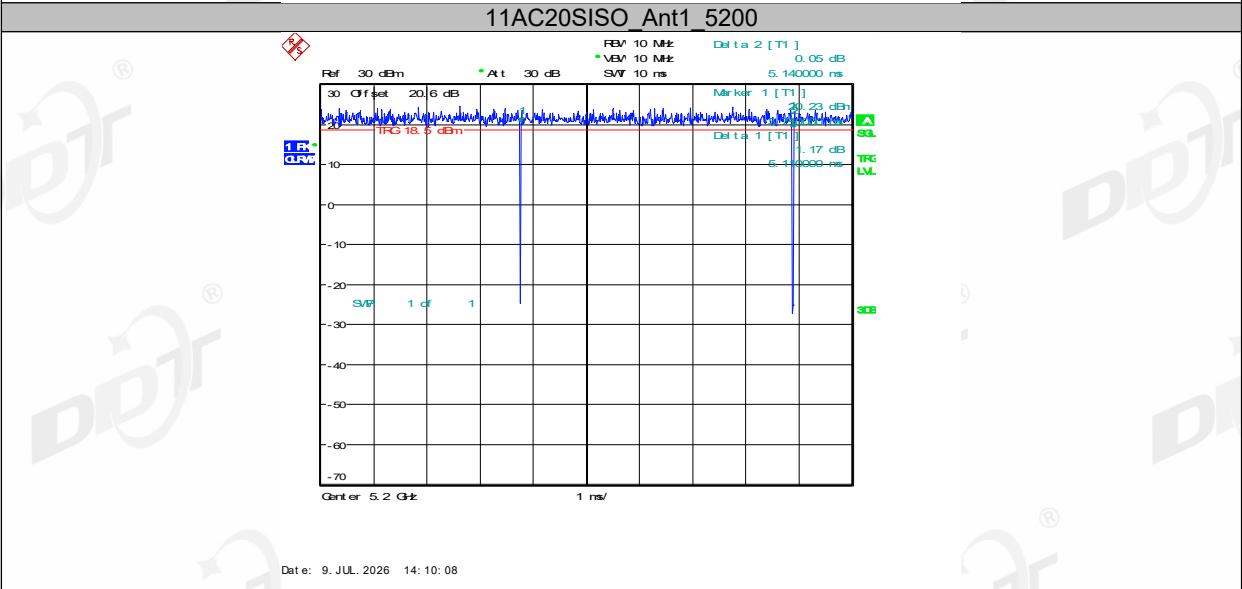
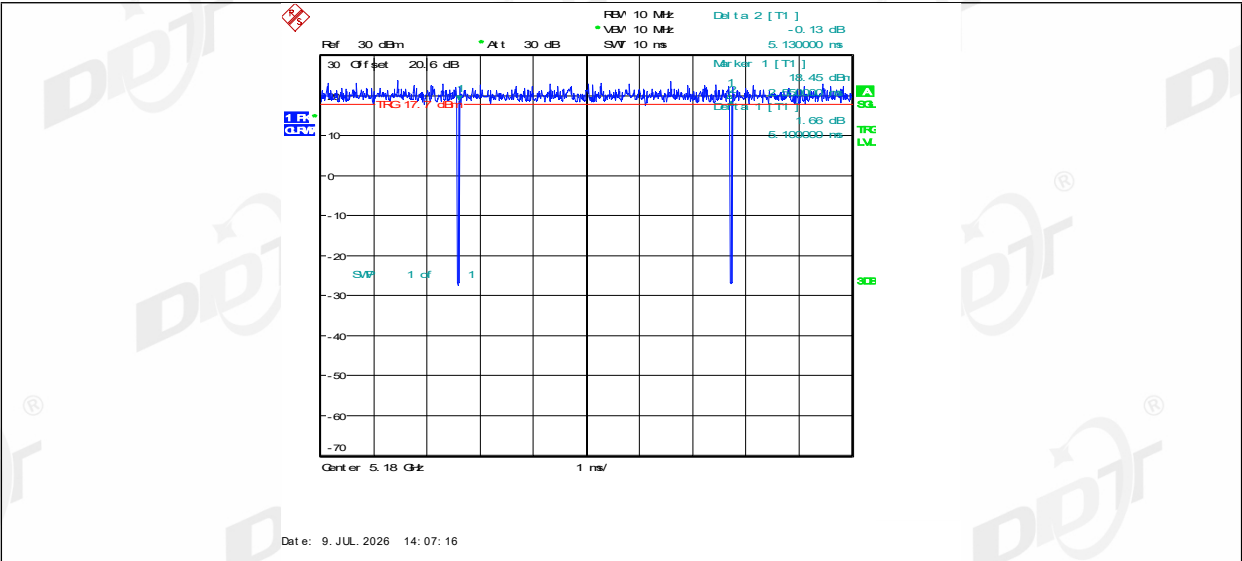
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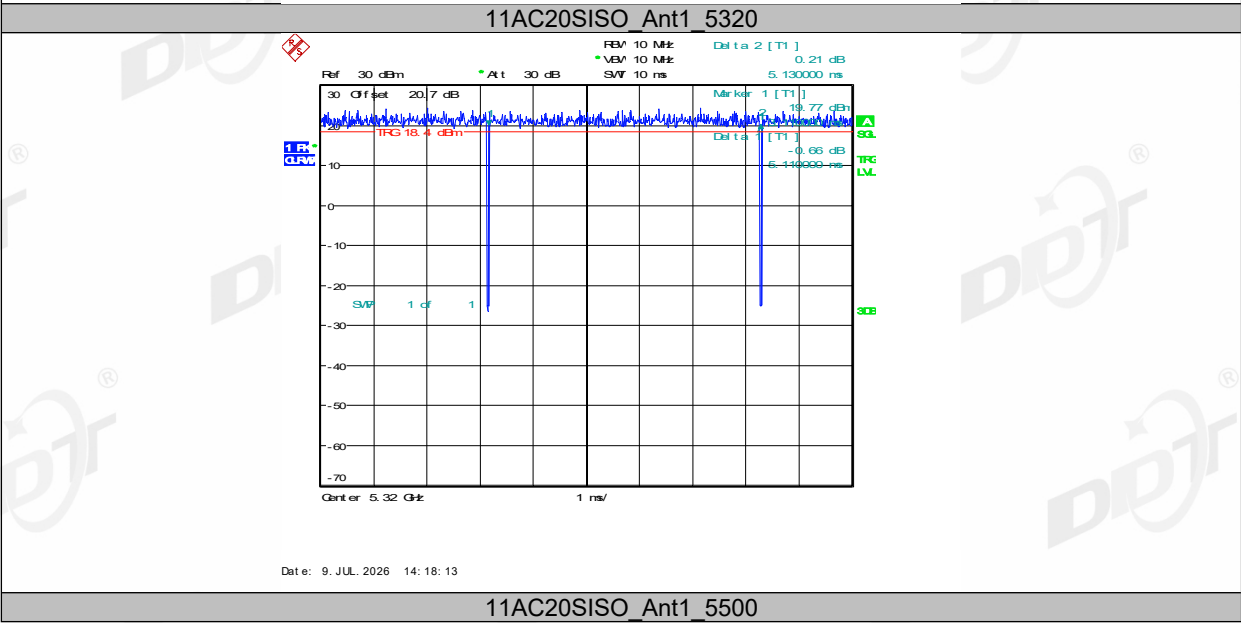
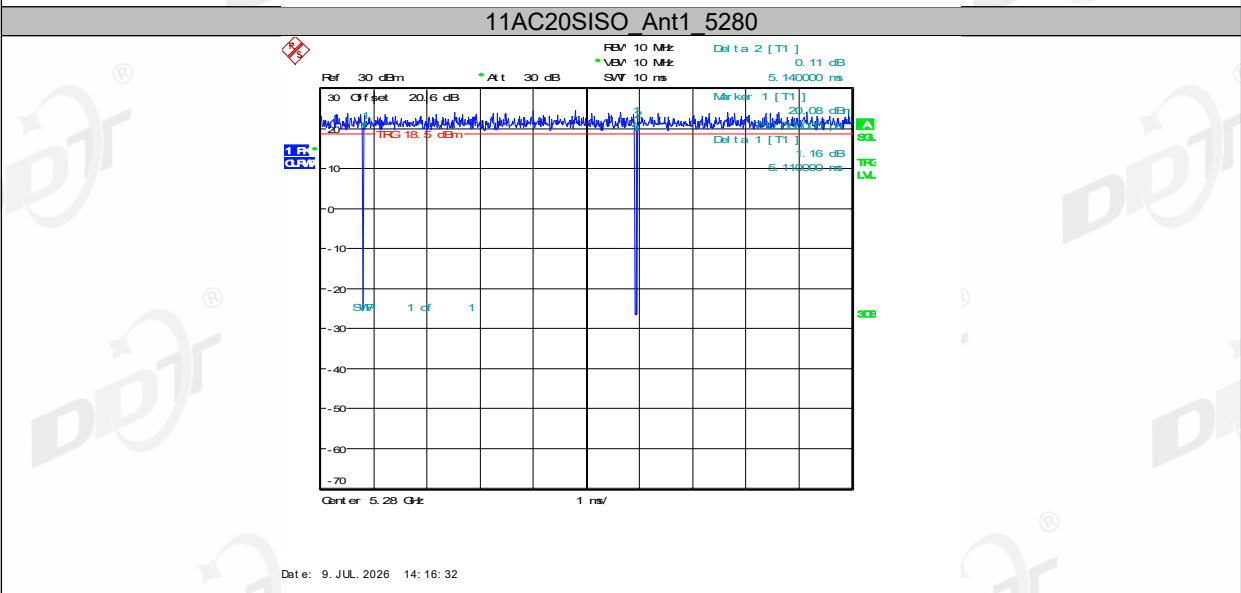
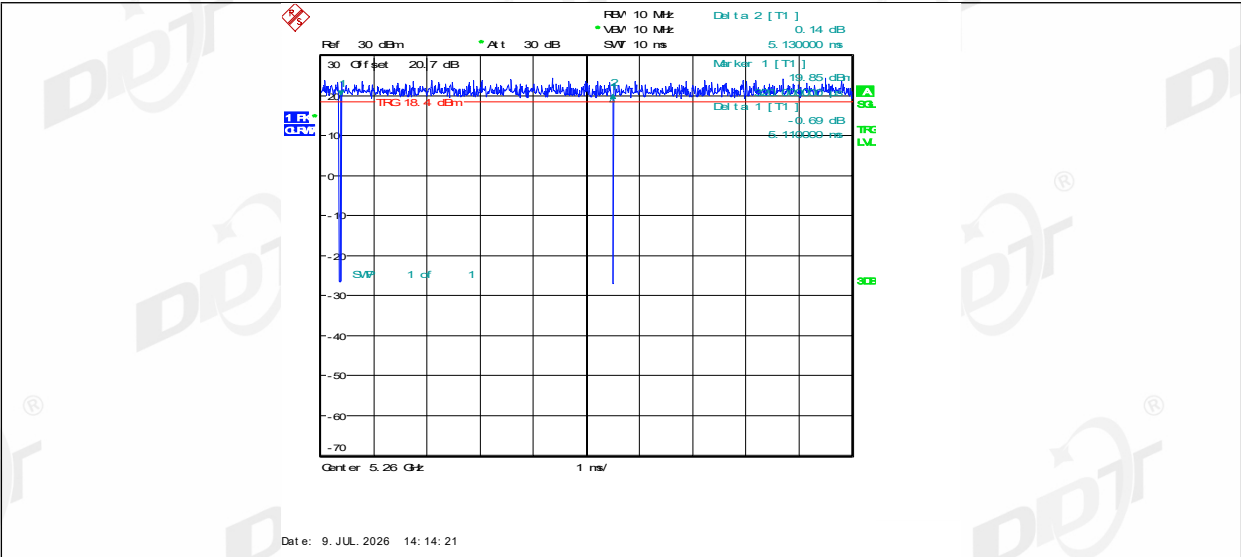


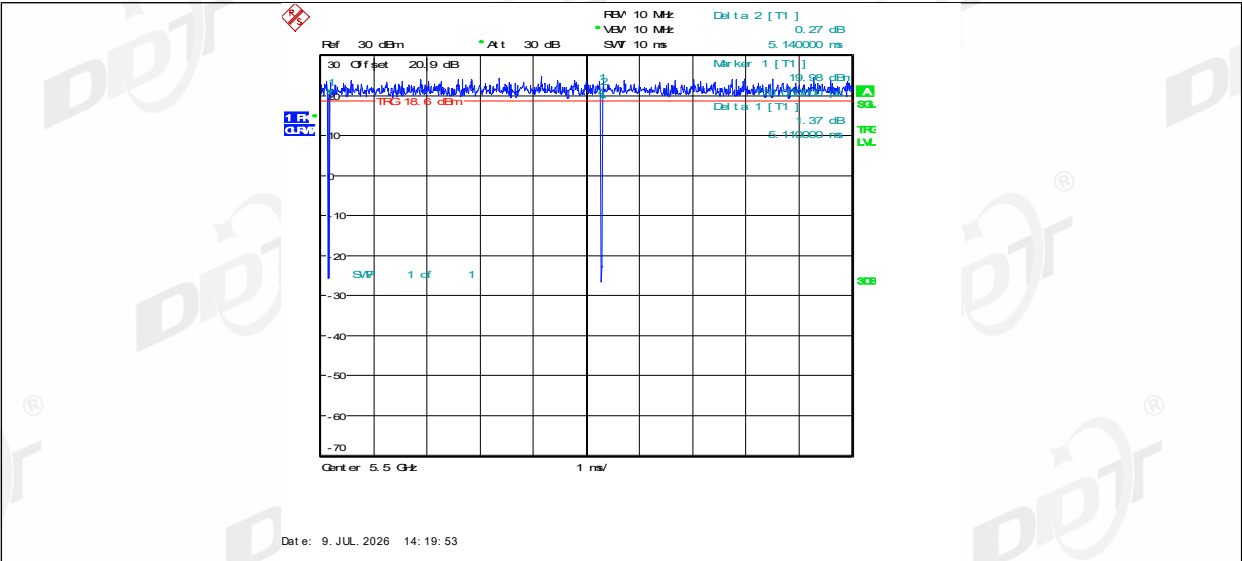
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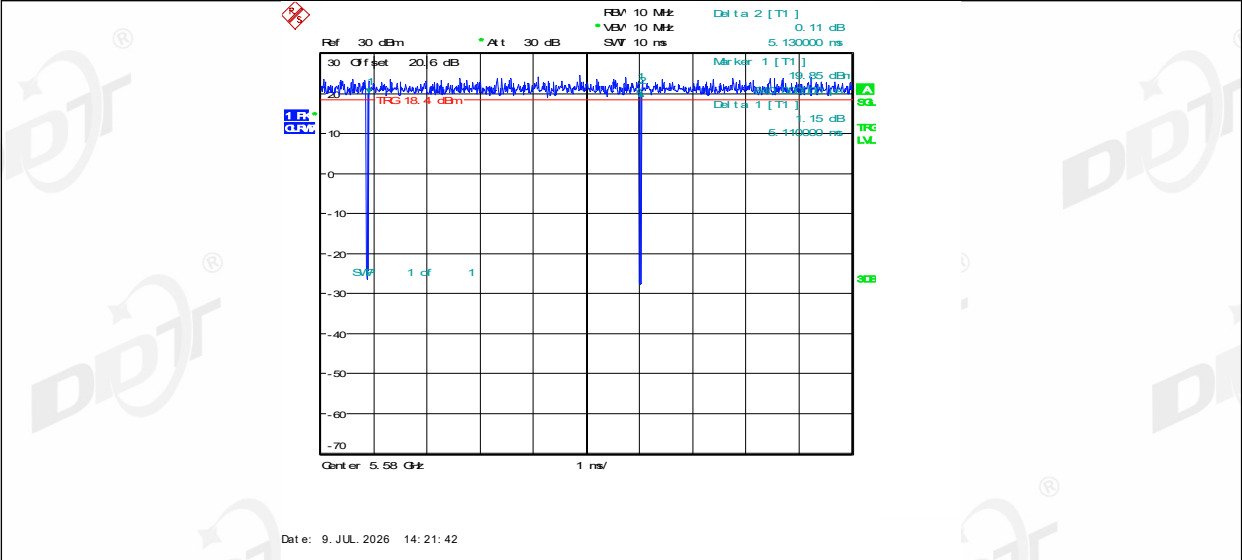
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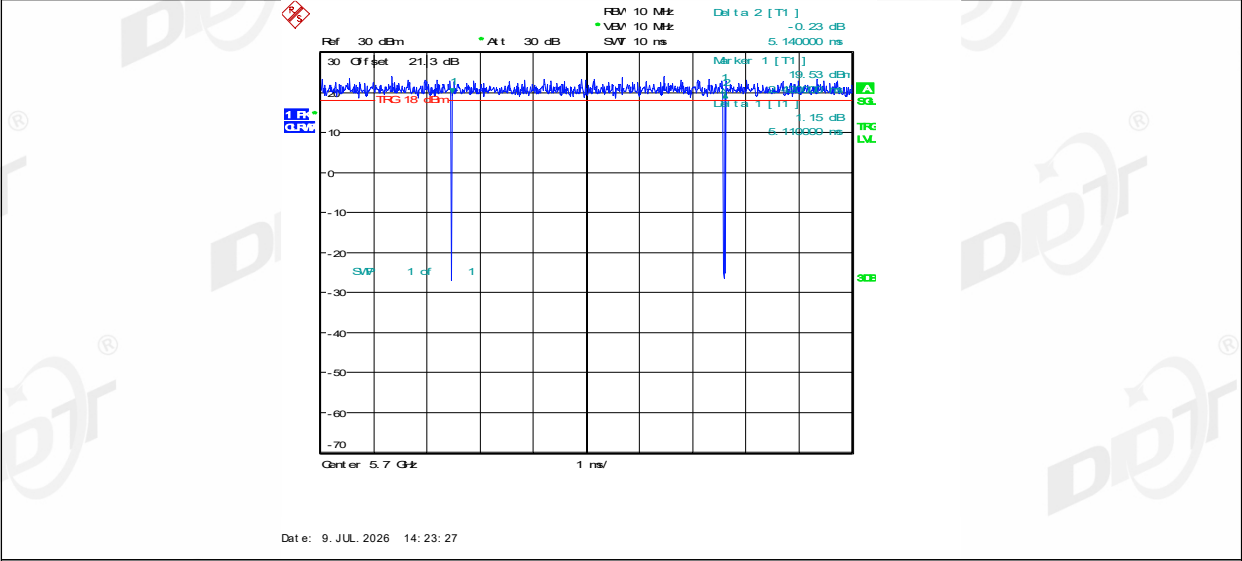




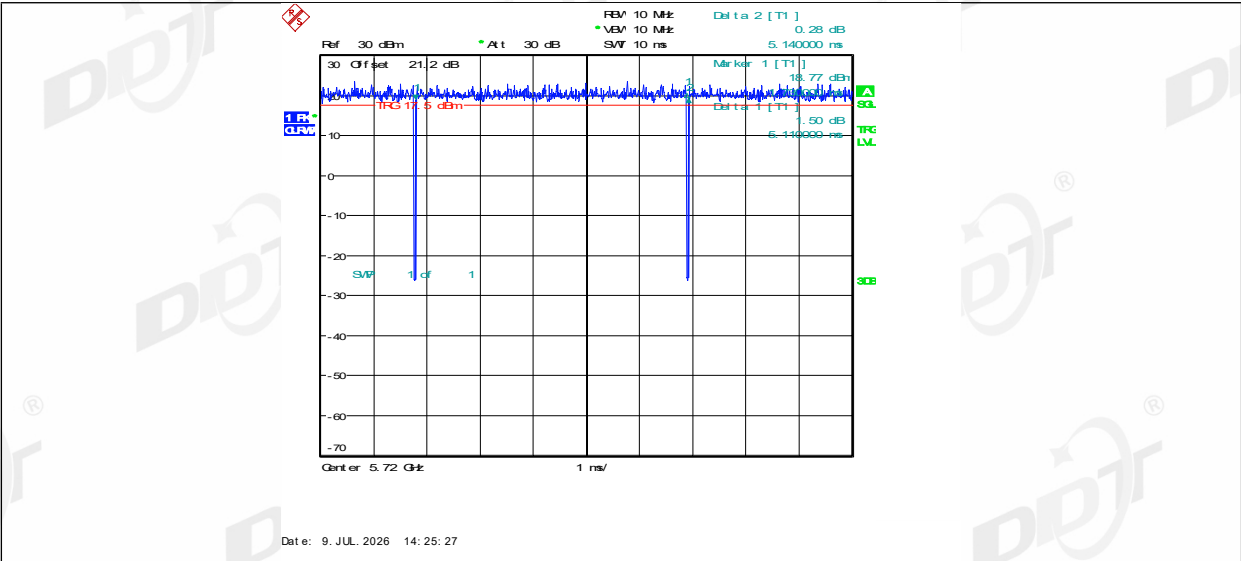
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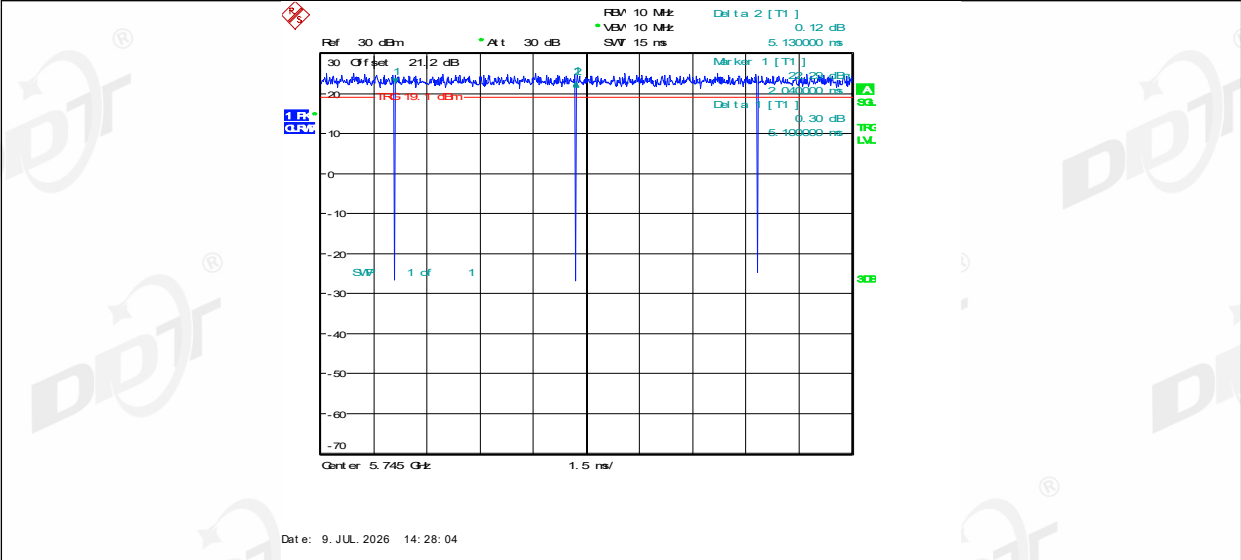
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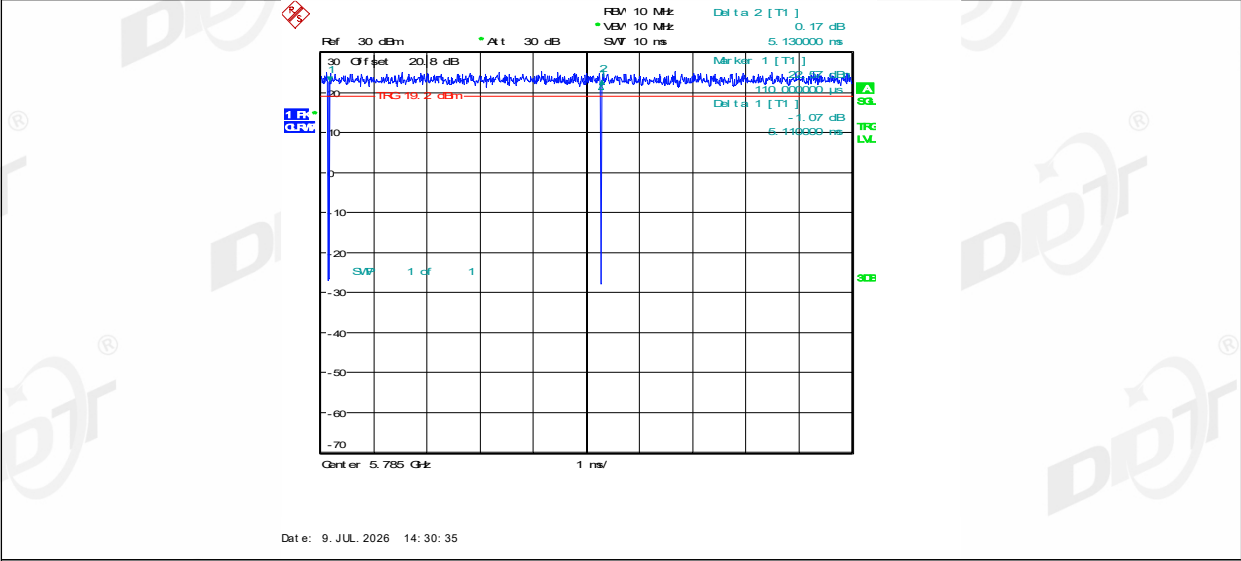
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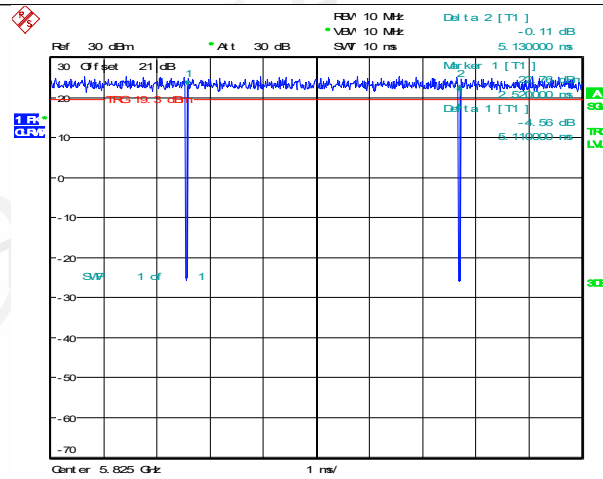
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11AC20SISO_Ant1_5785

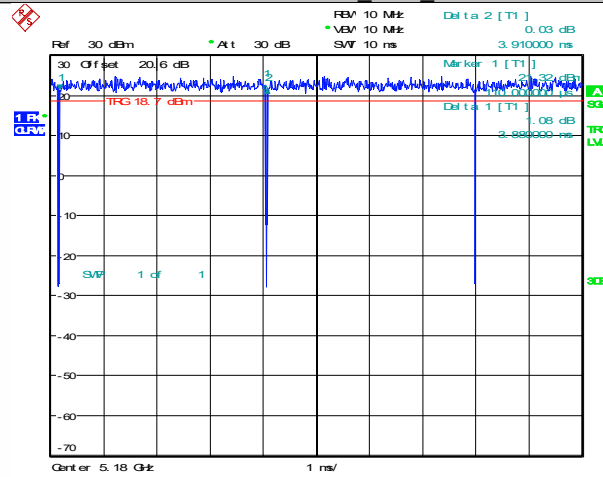


11AC20SISO_Ant1_5825



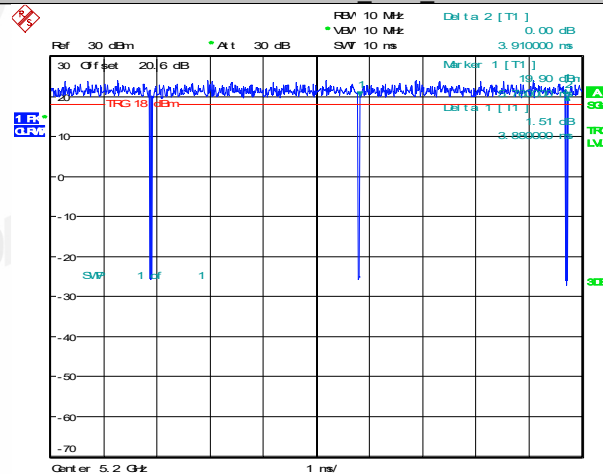
Date: 9. JUL. 2026 14:33:53

11AX20SISO_Ant1_5180



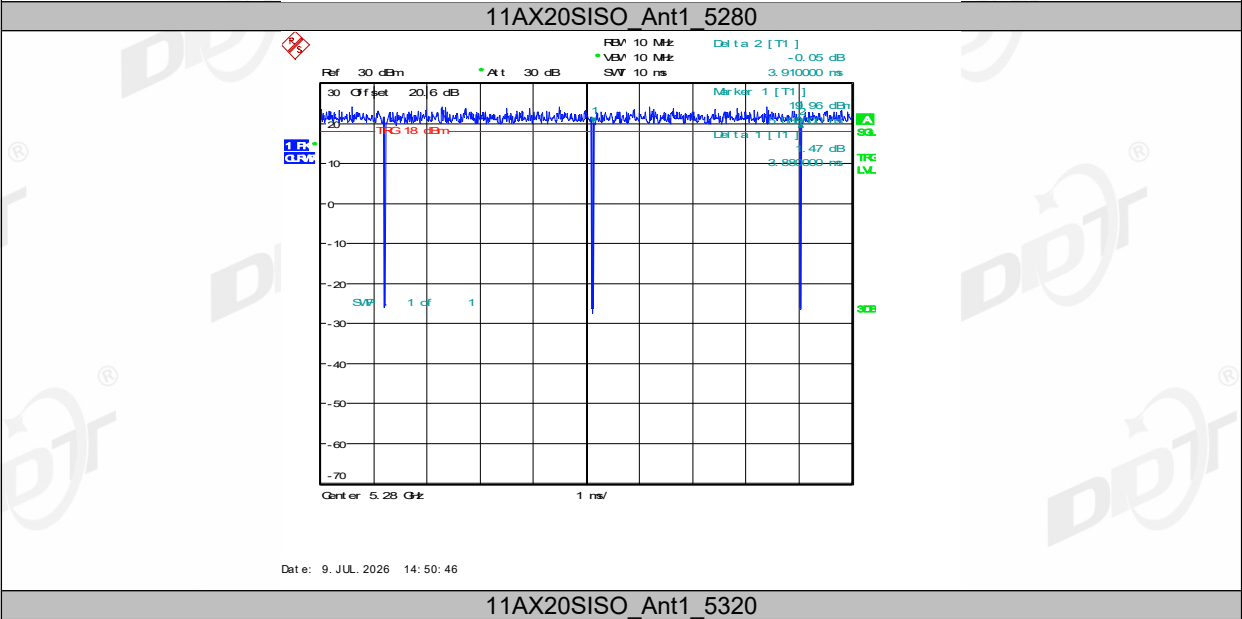
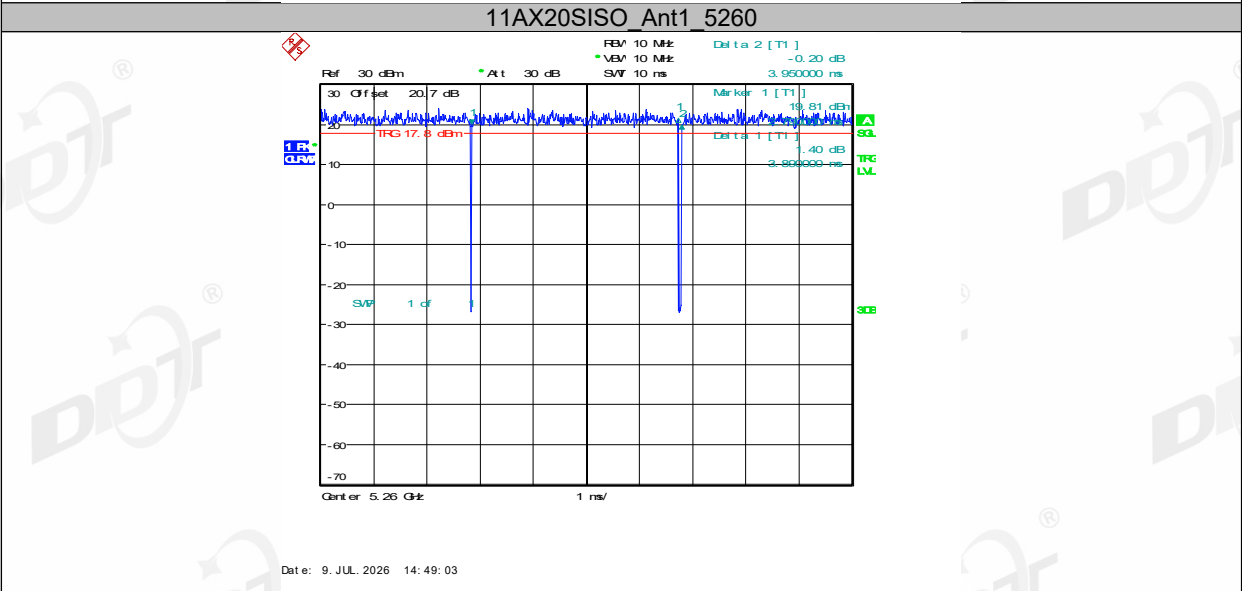
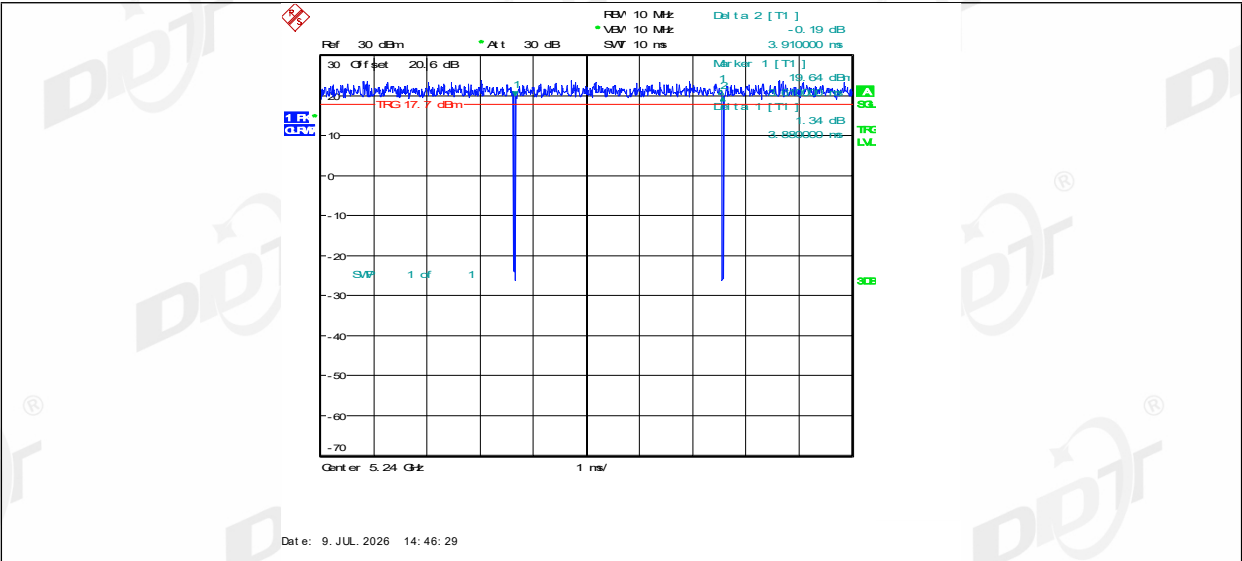
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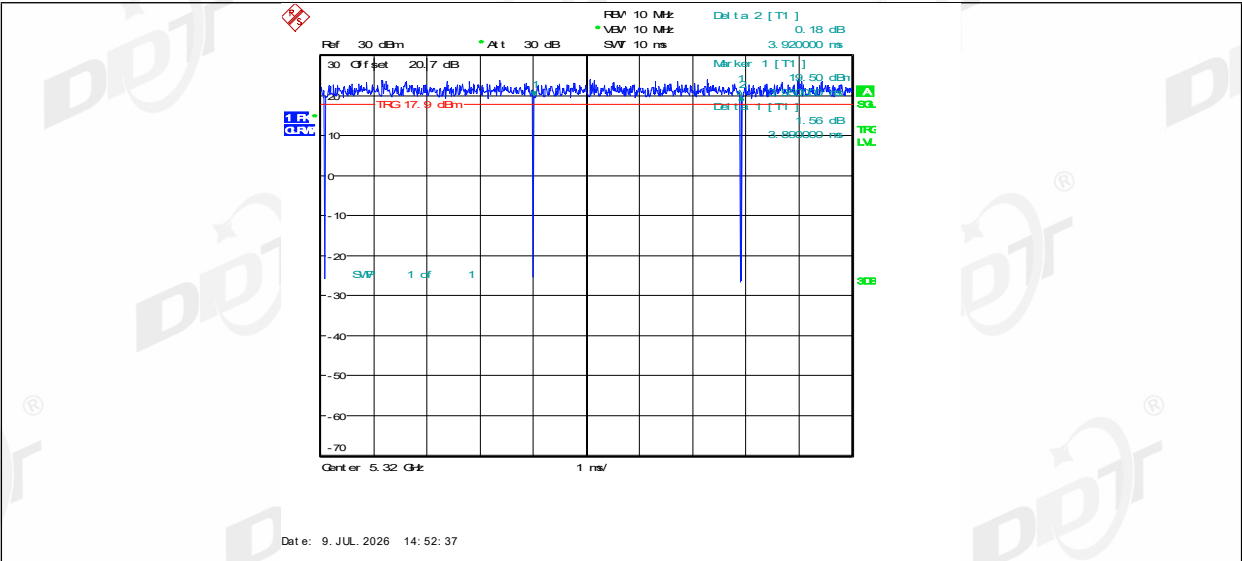
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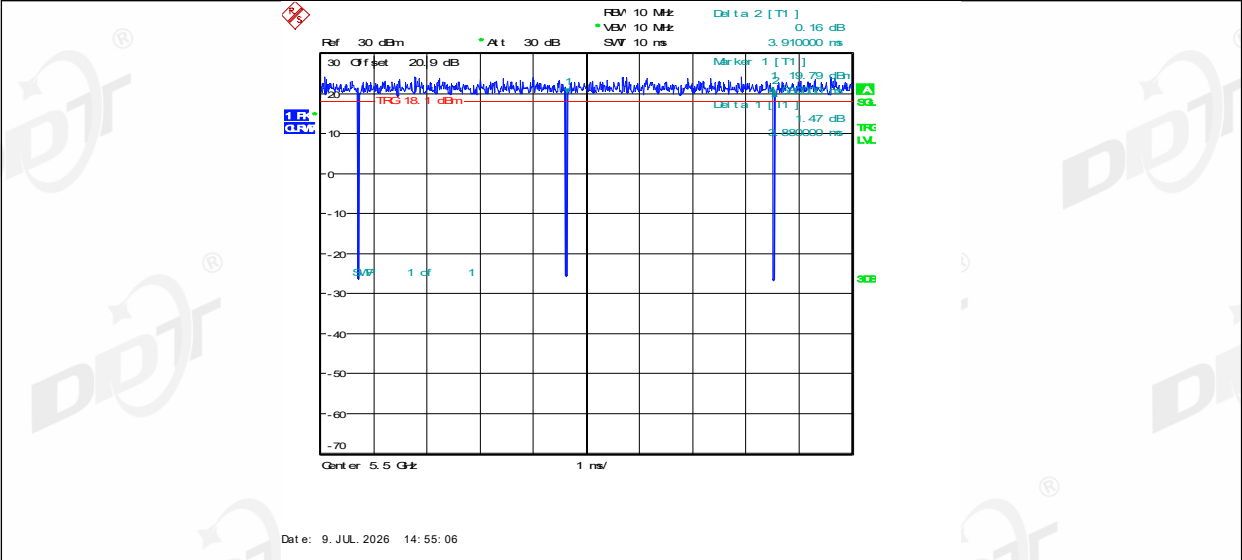
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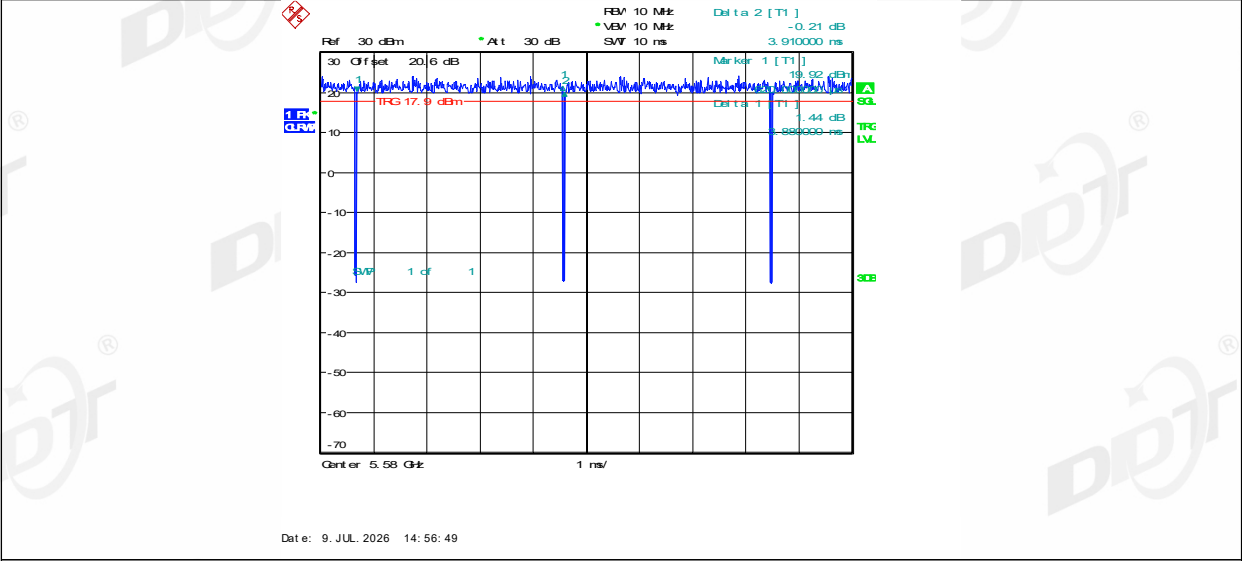




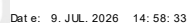
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11AX20SISO_Ant1_5580



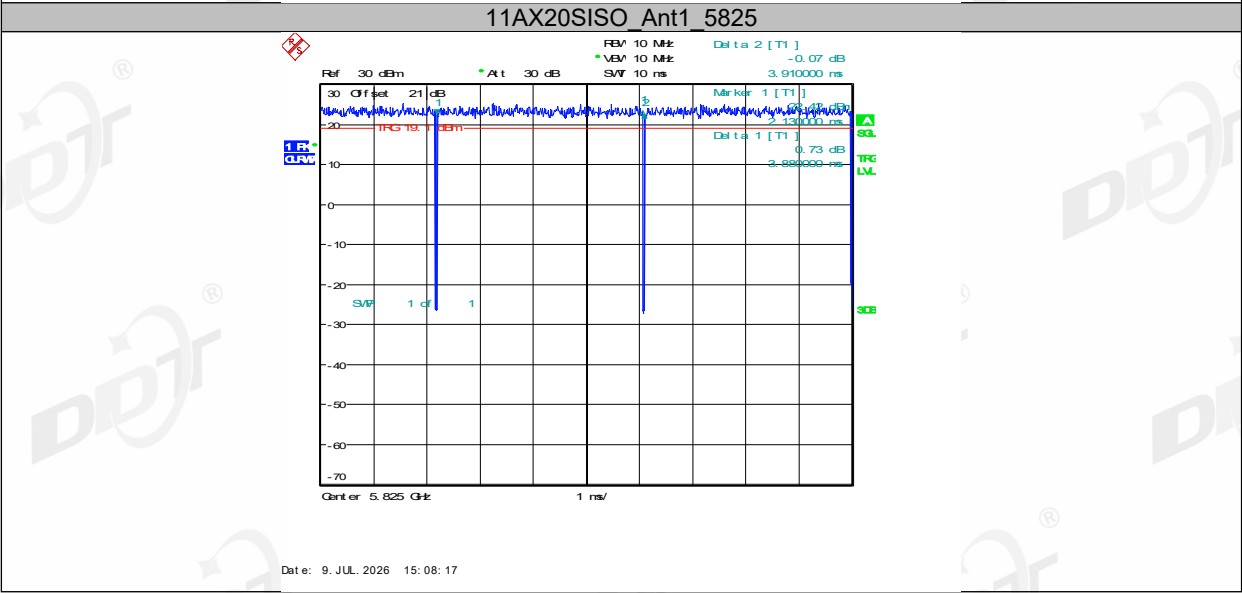
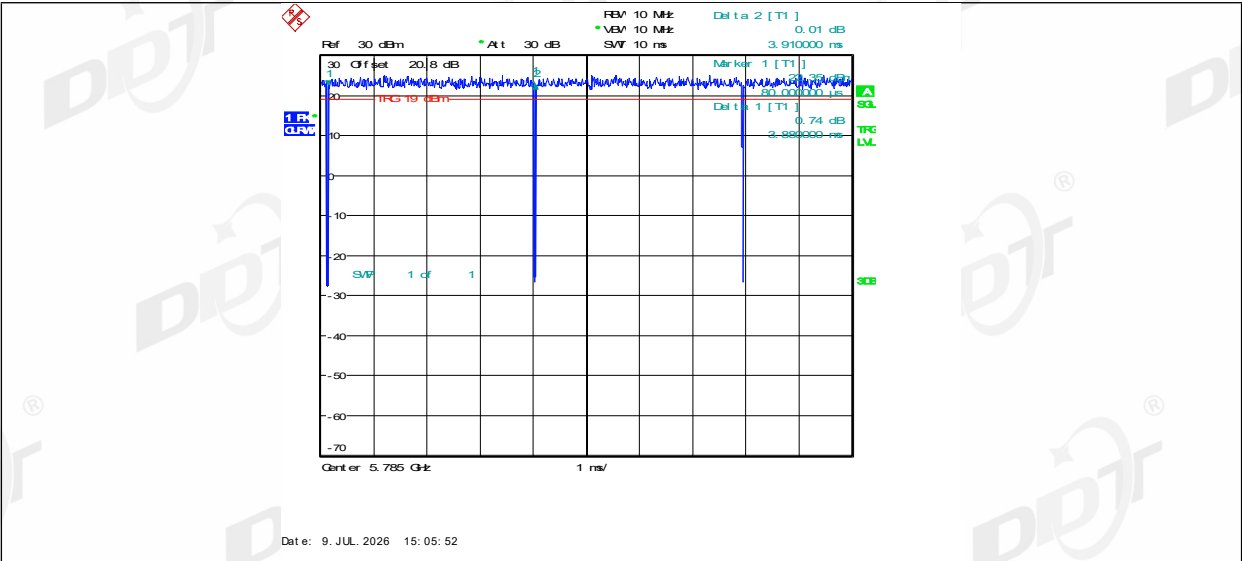
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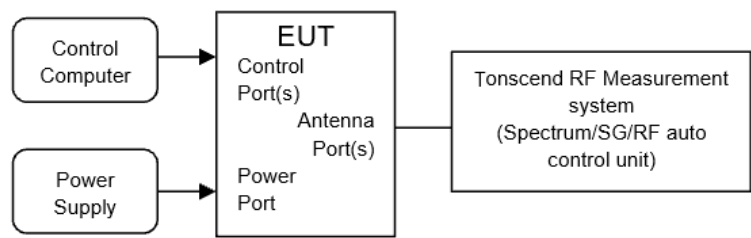
Date: 9. JUL. 2026 15:02:47

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7. Maximum Output Power

7.1. Block diagram of test setup



7.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	For FCC: outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points1 W(30 dBm) client devices: 250 mW (23.98 dBm)	5150-5250
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5250-5350
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	For FCC:5470 - 5725 For IC:5470 - 5600 5650 - 5725
	1 Watt (30 dBm)	5725-5850
Note 1: For FCC: B=26 bandwidth		
Note 2: If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and operating in 5725-5850 band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.		

7.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator
Measure the output power of each antenna port by power sensor.

7.4. Test result channel power

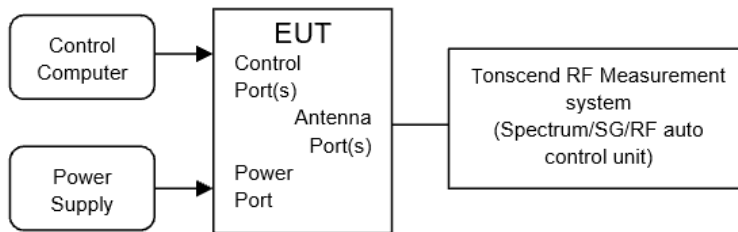
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	27.7-28.7℃,34.5-35.6%RH	Test Date:	2026.6.29-2026.7.17
Test Power Supply:	DC 5V	Sample Number:	S26062423-007

Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	Verdict
11A	Ant1	5180	99.46	0.02	17.08	≤23.98	PASS
		5200	99.46	0.02	17.17	≤23.98	PASS
		5240	99.46	0.02	16.81	≤23.98	PASS
		5260	99.46	0.02	17.07	≤23.98	PASS
		5280	99.64	0.02	17.21	≤23.98	PASS
		5320	99.64	0.02	17.04	≤23.98	PASS
		5500	99.46	0.02	17.15	≤23.98	PASS
		5580	99.64	0.02	17.09	≤23.98	PASS
		5700	99.46	0.02	16.59	≤23.98	PASS
		5720	99.46	0.02	16.26	≤23.98	PASS
		5745	99.46	0.02	17.83	≤30.00	PASS
		5785	99.64	0.02	18.11	≤30.00	PASS
		5825	99.46	0.02	18.38	≤30.00	PASS
11N20SISO	Ant1	5180	99.71	0.01	16.67	≤23.98	PASS
		5200	99.61	0.02	16.73	≤23.98	PASS
		5240	99.41	0.03	16.43	≤23.98	PASS
		5260	99.61	0.02	16.46	≤23.98	PASS
		5280	99.61	0.02	16.54	≤23.98	PASS
		5320	99.41	0.03	16.23	≤23.98	PASS
		5500	99.41	0.03	16.44	≤23.98	PASS
		5580	99.61	0.02	16.31	≤23.98	PASS
		5700	99.41	0.03	15.92	≤23.98	PASS
		5720	99.61	0.02	15.57	≤23.98	PASS
		5745	99.61	0.02	17.85	≤30.00	PASS
		5785	99.41	0.03	17.95	≤30.00	PASS
		5825	99.42	0.03	18.22	≤30.00	PASS
11N40SISO	Ant1	5190	98.80	0.05	16.07	≤23.98	PASS
		5230	98.80	0.05	16.21	≤23.98	PASS
		5270	98.80	0.05	15.96	≤23.98	PASS
		5310	98.80	0.05	16.37	≤23.98	PASS
		5510	99.20	0.03	16.35	≤23.98	PASS
		5550	99.20	0.03	16.30	≤23.98	PASS
		5670	98.80	0.05	15.59	≤23.98	PASS
		5710	99.20	0.03	15.33	≤23.98	PASS
		5755	98.80	0.05	19.60	≤30.00	PASS
11AC20SISO	Ant1	5795	98.80	0.05	19.76	≤30.00	PASS
		5180	99.42	0.03	15.09	≤23.98	PASS
		5200	99.42	0.03	15.18	≤23.98	PASS
		5240	99.42	0.03	15.10	≤23.98	PASS
		5260	99.61	0.02	14.94	≤23.98	PASS
		5280	99.42	0.03	15.28	≤23.98	PASS
		5320	99.61	0.02	14.88	≤23.98	PASS
		5500	99.42	0.03	15.00	≤23.98	PASS
		5580	99.61	0.02	14.90	≤23.98	PASS
		5700	99.42	0.03	14.51	≤23.98	PASS
		5720	99.42	0.03	14.05	≤23.98	PASS
		5745	99.42	0.03	20.29	≤30.00	PASS
		5785	99.61	0.02	20.53	≤30.00	PASS
		5825	99.61	0.02	20.85	≤30.00	PASS
11AX20SISO	Ant1	5180	99.23	0.03	13.47	≤23.98	PASS
		5200	99.23	0.03	13.55	≤23.98	PASS
		5240	99.23	0.03	13.69	≤23.98	PASS
		5260	98.48	0.07	13.60	≤23.98	PASS
		5280	99.23	0.03	13.53	≤23.98	PASS
		5320	99.23	0.03	13.49	≤23.98	PASS
		5500	99.23	0.03	13.62	≤23.98	PASS
		5580	99.23	0.03	13.51	≤23.98	PASS
		5700	99.23	0.03	13.15	≤23.98	PASS
		5720	99.23	0.03	12.77	≤23.98	PASS
		5745	99.49	0.02	20.22	≤30.00	PASS

		5785	99.23	0.03	20.48	≤30.00	PASS
		5825	99.23	0.03	20.70	≤30.00	PASS

8. Power Spectral Density

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	11 dBm/MHz	5250-5350
	11 dBm/MHz	5470-5725
	30 dBm/500 kHz	5725-5850
Note: If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum Power Spectral Density.		

8.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz

VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

8.4. Test result

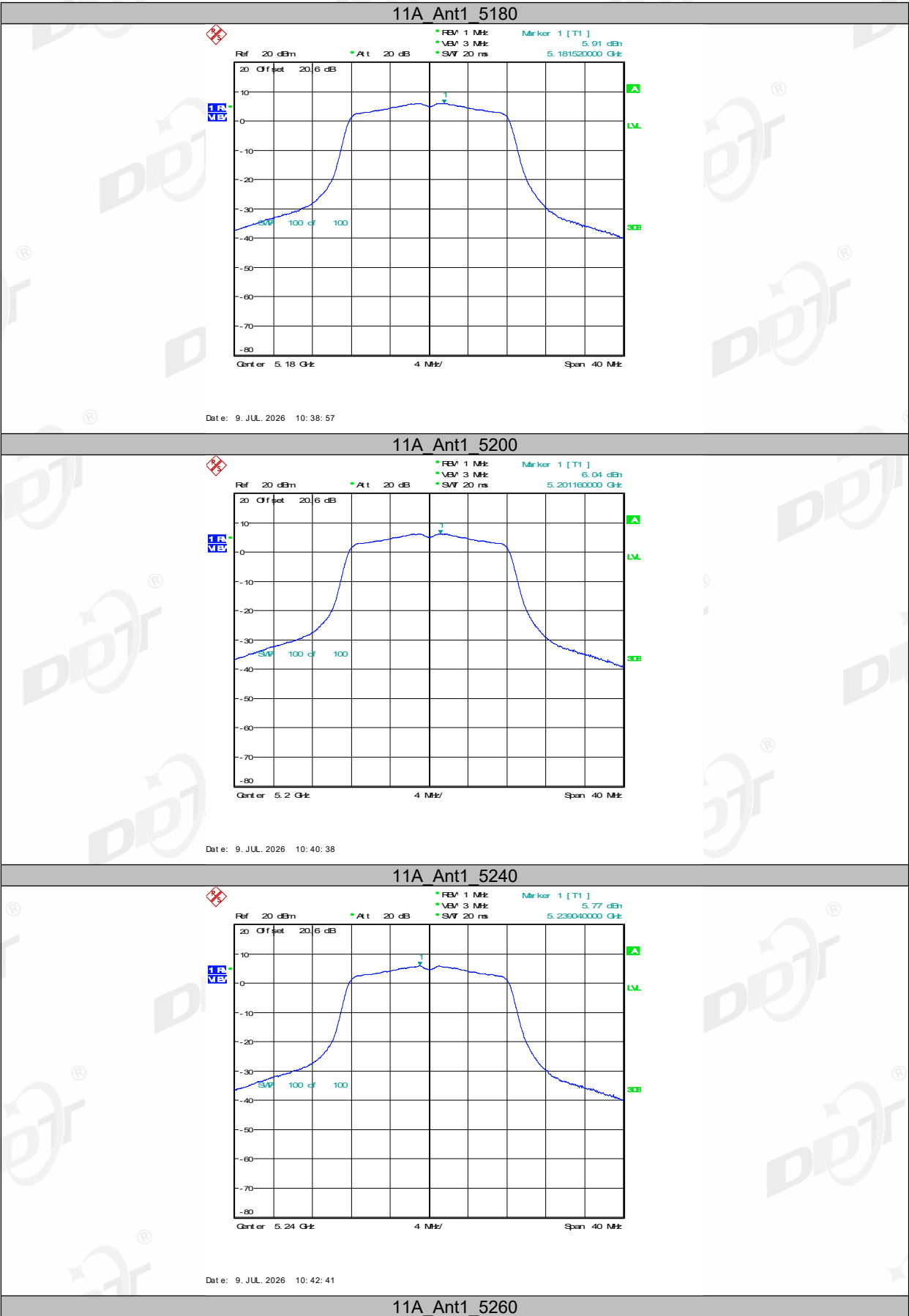
Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	27.7-28.7℃,34.5-35.6%RH	Test Date:	2026.6.29-2026.7.17
Test Power Supply:	DC 5V	Sample Number:	S26062423-007

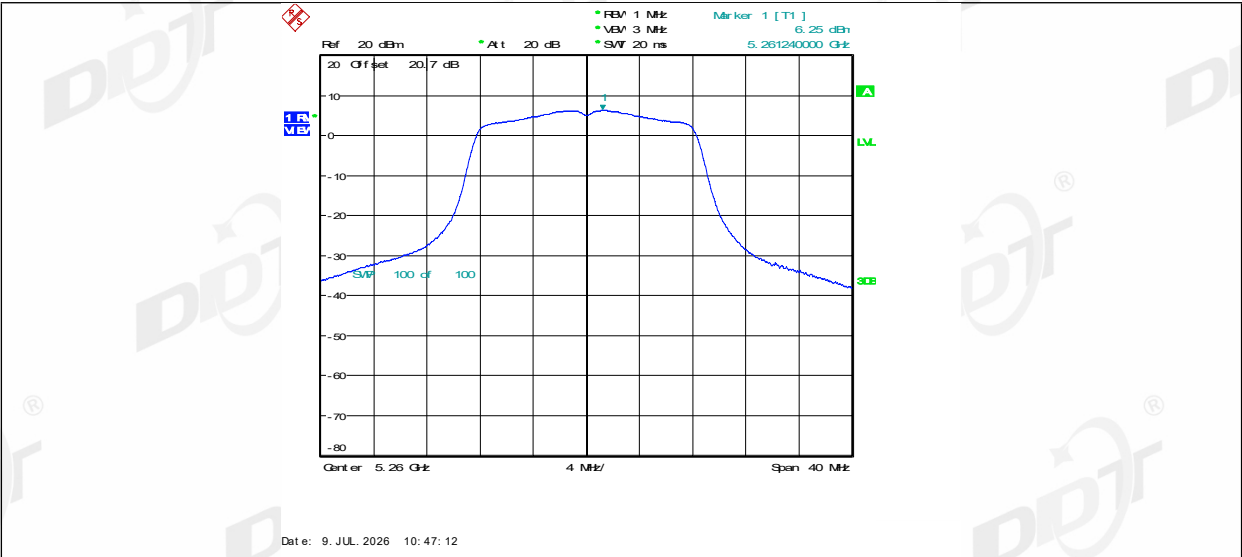
Test Mode	Antenna	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	5.91	≤11.00	PASS
		5200	6.04	≤11.00	PASS
		5240	5.77	≤11.00	PASS
		5260	6.25	≤11.00	PASS
		5280	6.21	≤11.00	PASS
		5320	6.26	≤11.00	PASS
		5500	6.05	≤11.00	PASS
		5580	5.81	≤11.00	PASS
		5700	5.54	≤11.00	PASS
		5720 UNII-2C	5.10	≤11.00	PASS
		5720 UNII-3	-0.20	≤30.00	PASS
		5745	4.20	≤30.00	PASS
		5785	4.49	≤30.00	PASS
		5825	4.52	≤30.00	PASS
11N20SISO	Ant1	5180	5.39	≤11.00	PASS
		5200	5.44	≤11.00	PASS
		5240	5.21	≤11.00	PASS
		5260	5.34	≤11.00	PASS
		5280	5.42	≤11.00	PASS
		5320	5.27	≤11.00	PASS
		5500	5.18	≤11.00	PASS
		5580	4.85	≤11.00	PASS
		5700	4.74	≤11.00	PASS
		5720 UNII-2C	4.23	≤11.00	PASS
		5720 UNII-3	-0.98	≤30.00	PASS
		5745	3.91	≤30.00	PASS
		5785	4.07	≤30.00	PASS
		5825	4.21	≤30.00	PASS
11N40SISO	Ant1	5190	2.43	≤11.00	PASS
		5230	2.49	≤11.00	PASS
		5270	2.40	≤11.00	PASS
		5310	2.90	≤11.00	PASS
		5510	2.81	≤11.00	PASS
		5550	2.82	≤11.00	PASS
		5670	1.57	≤11.00	PASS
		5710 UNII-2C	1.66	≤11.00	PASS
		5710 UNII-3	-4.34	≤30.00	PASS
		5755	3.10	≤30.00	PASS
		5795	3.53	≤30.00	PASS
11AC20SISO	Ant1	5180	4.17	≤11.00	PASS
		5200	3.74	≤11.00	PASS
		5240	4.18	≤11.00	PASS
		5260	4.19	≤11.00	PASS
		5280	4.43	≤11.00	PASS
		5320	3.98	≤11.00	PASS
		5500	3.94	≤11.00	PASS
		5580	3.79	≤11.00	PASS
		5700	3.95	≤11.00	PASS
		5720 UNII-2C	2.55	≤11.00	PASS
		5720 UNII-3	-2.84	≤30.00	PASS
		5745	6.28	≤30.00	PASS
		5785	6.68	≤30.00	PASS
		5825	6.73	≤30.00	PASS
11AX20SISO	Ant1	5180	2.42	≤11.00	PASS
		5200	2.07	≤11.00	PASS

		5240	2.44	≤11.00	PASS
		5260	2.49	≤11.00	PASS
		5280	2.69	≤11.00	PASS
		5320	2.46	≤11.00	PASS
		5500	2.47	≤11.00	PASS
		5580	2.12	≤11.00	PASS
		5700	2.36	≤11.00	PASS
		5720_UNII-2C	1.20	≤11.00	PASS
		5720_UNII-3	-4.27	≤30.00	PASS
		5745	5.99	≤30.00	PASS
		5785	6.33	≤30.00	PASS
		5825	6.46	≤30.00	PASS

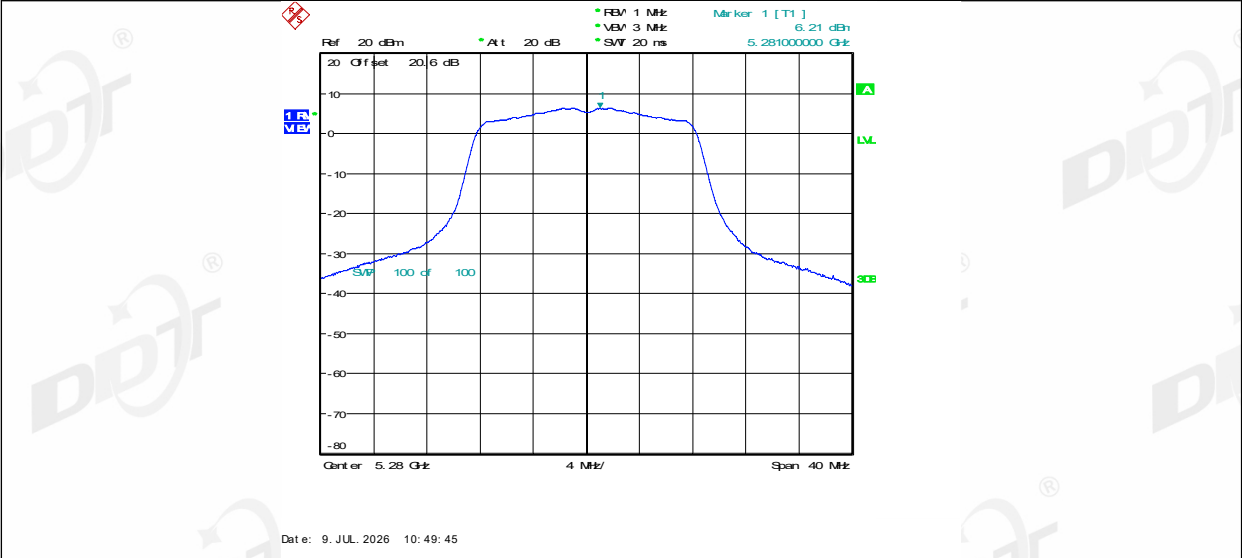
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor is compensated in the graph.

8.5. Test graphs

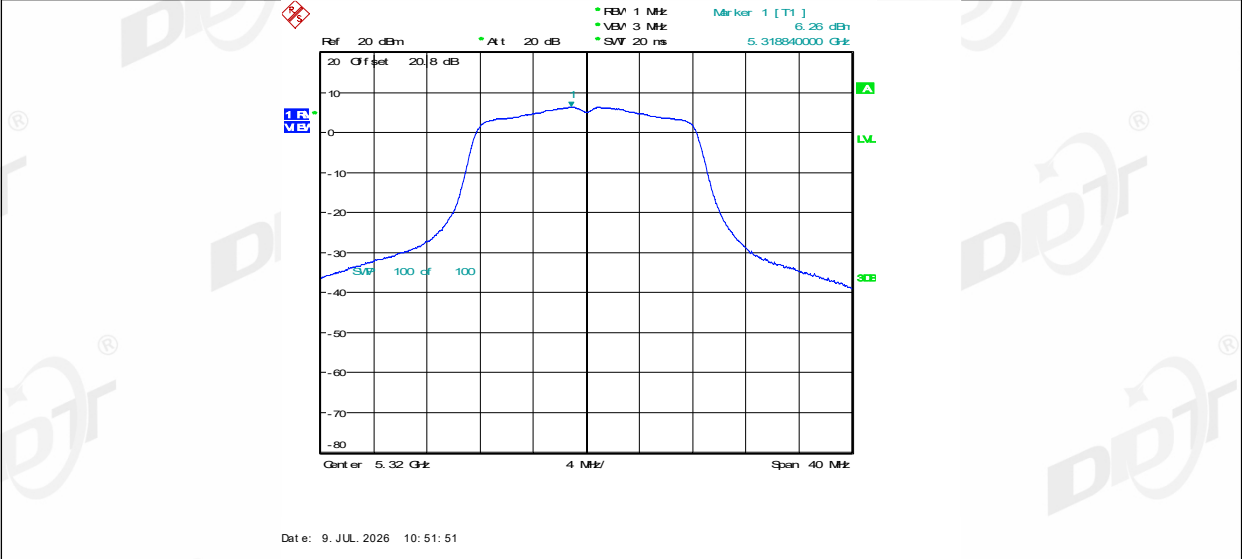




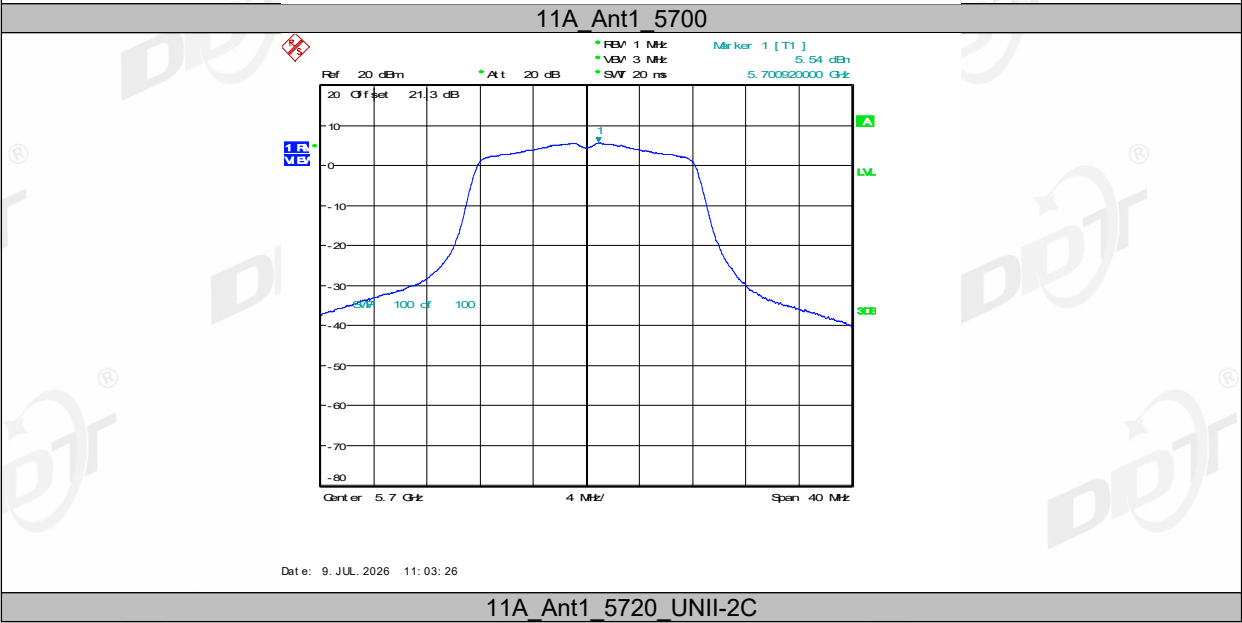
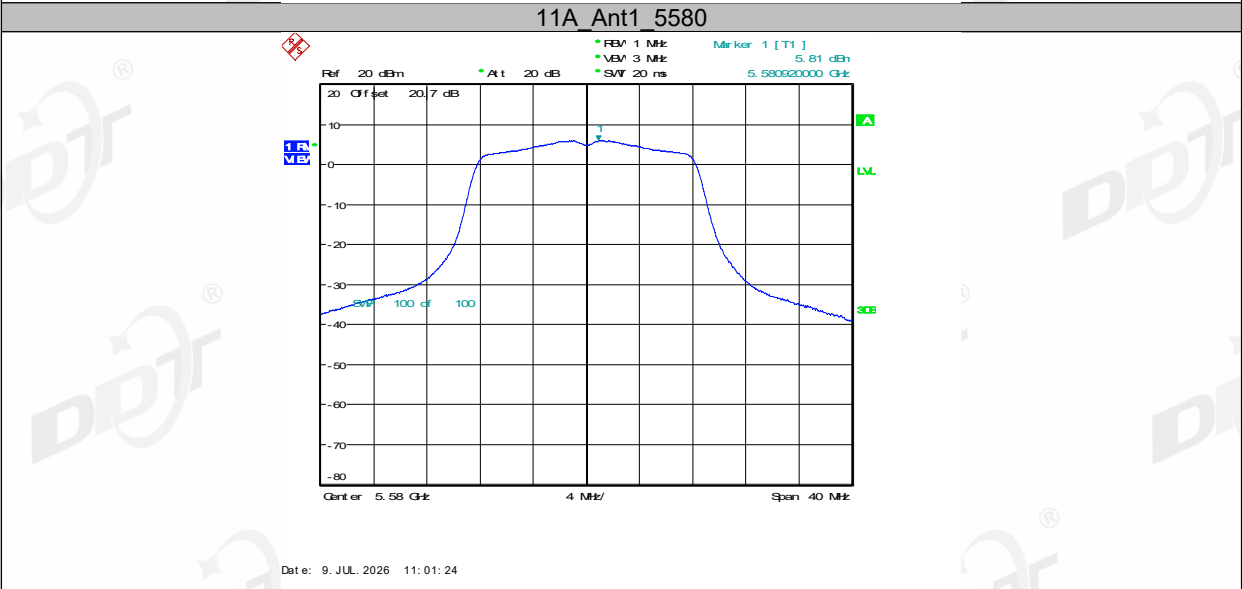
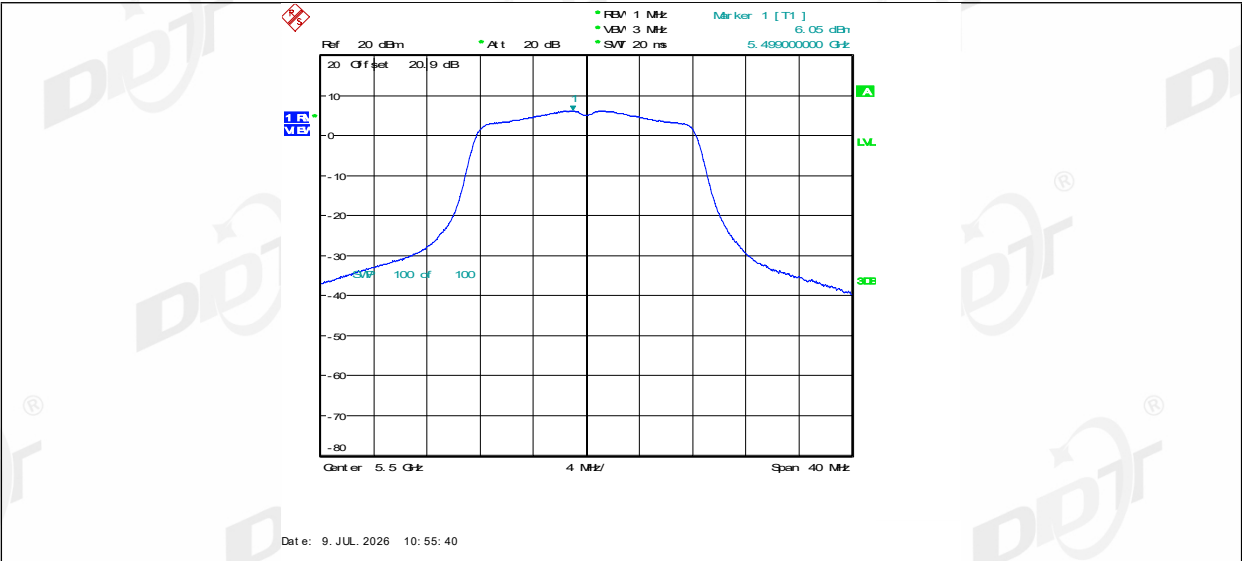
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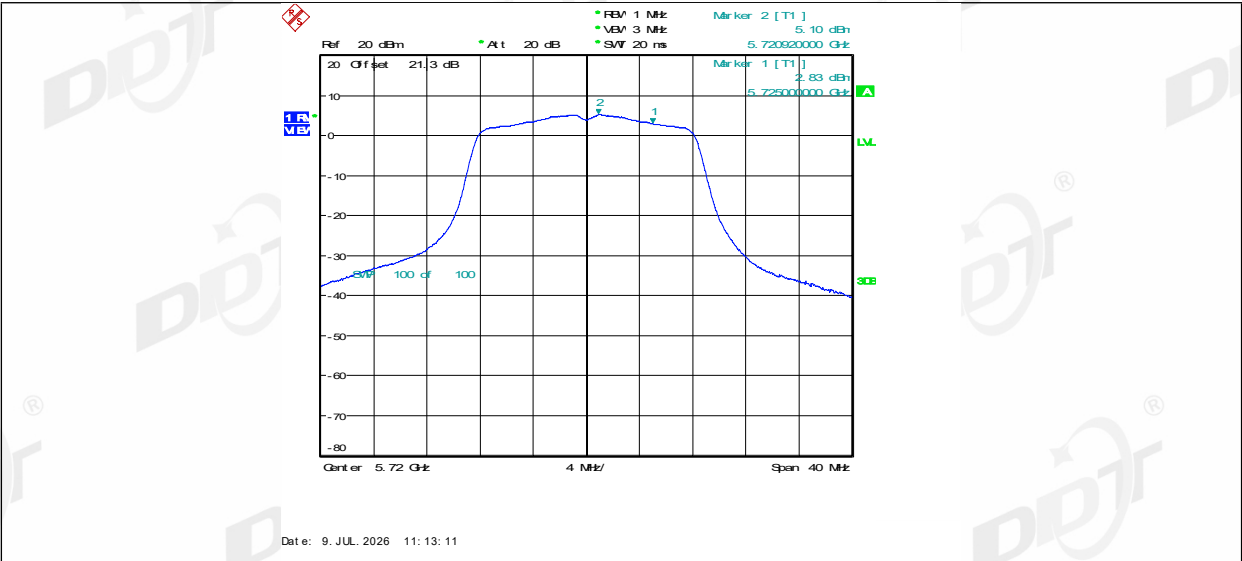


11A_Ant1_5320

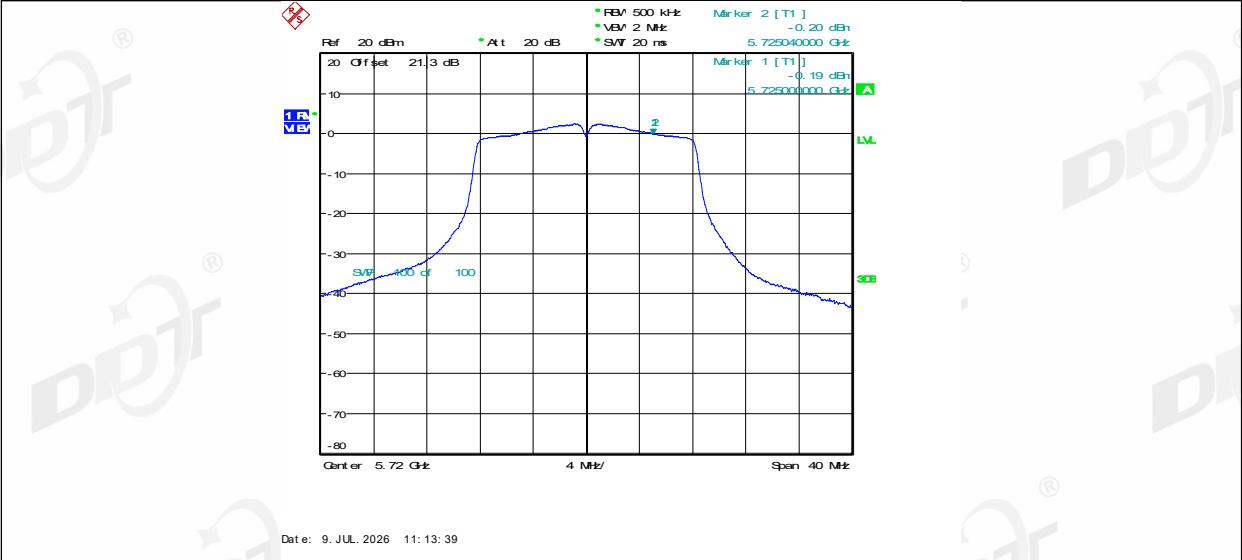


11A_Ant1_5500

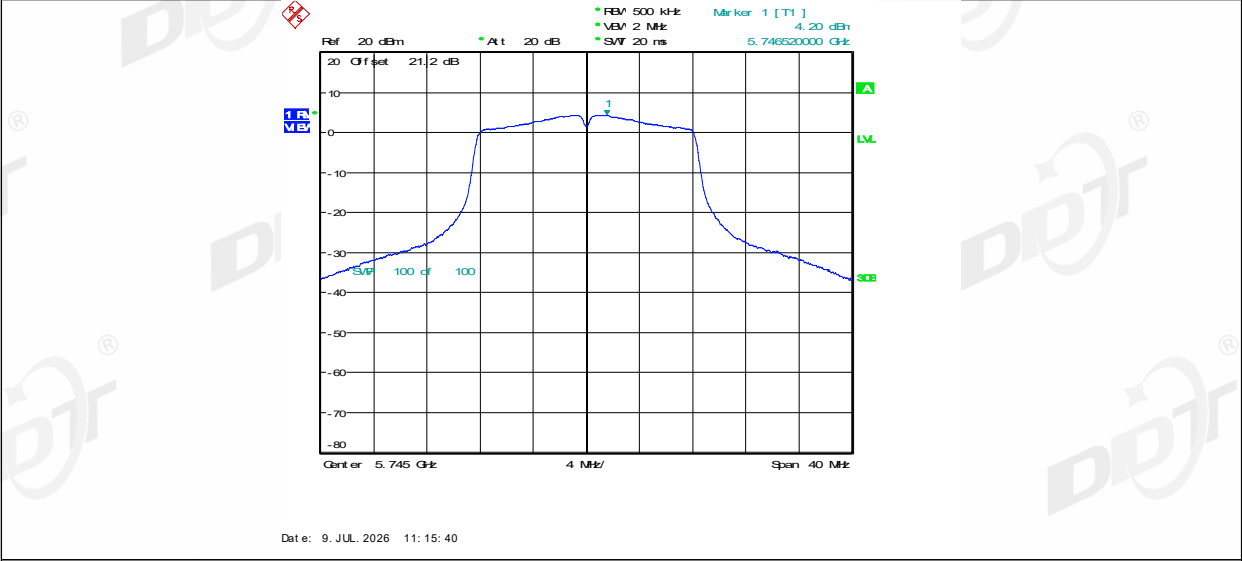




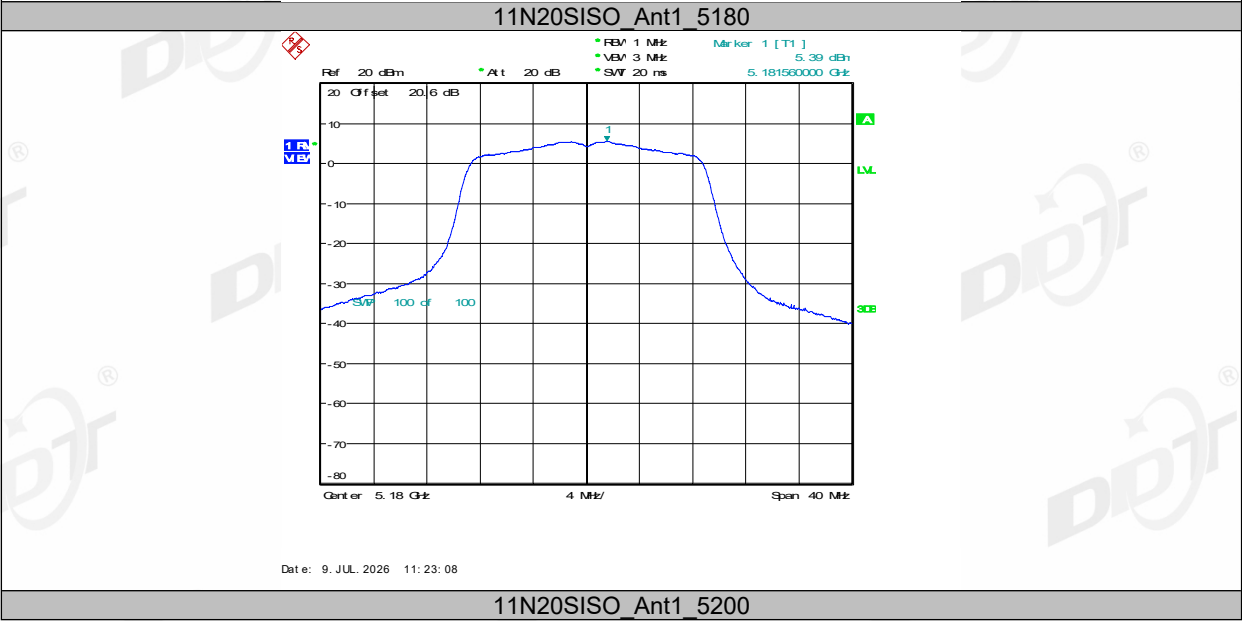
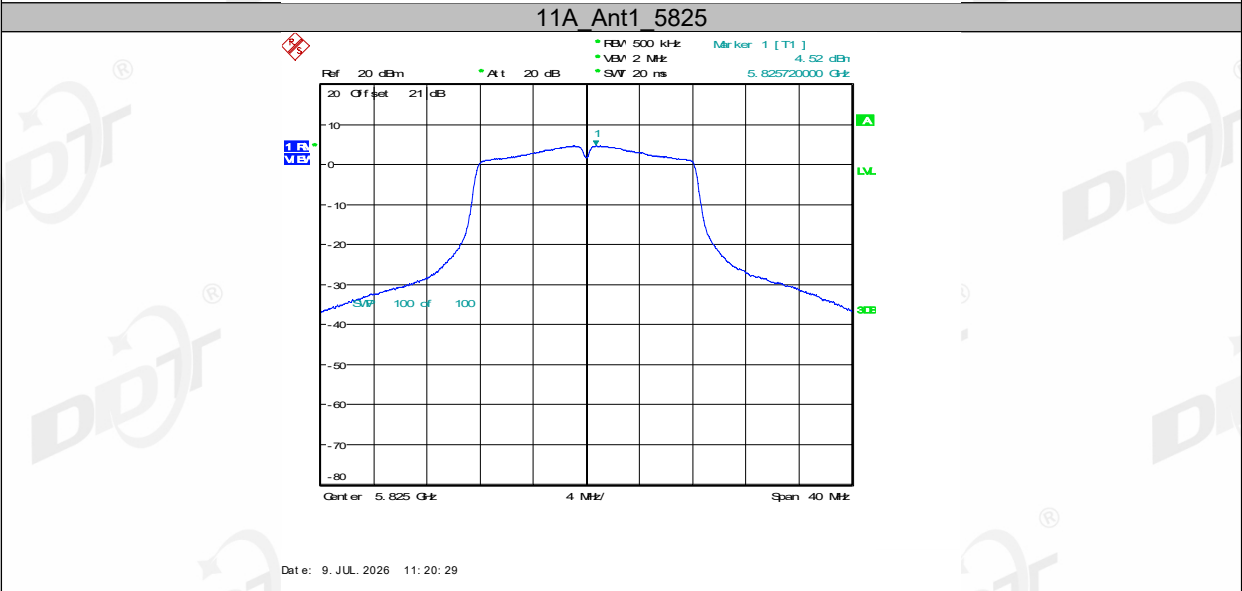
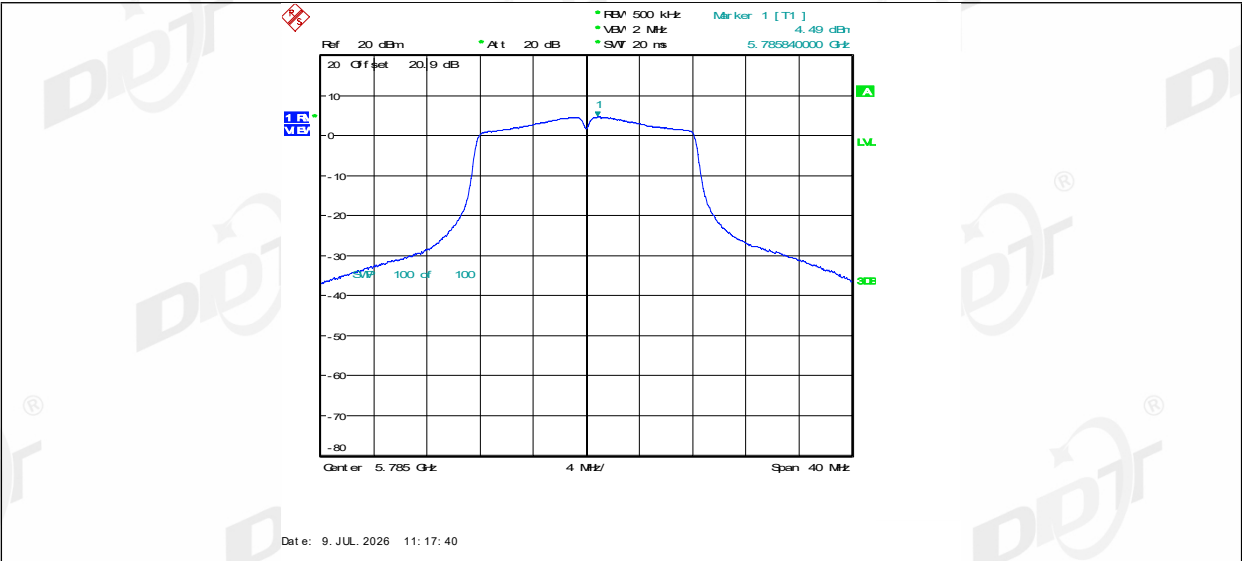
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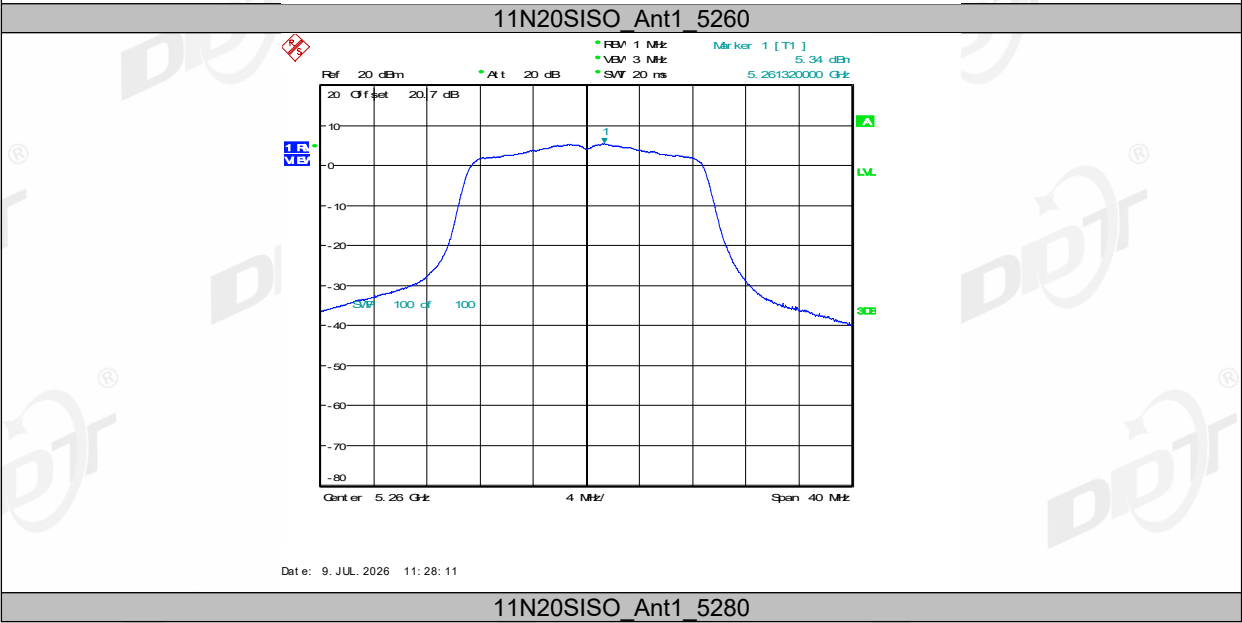
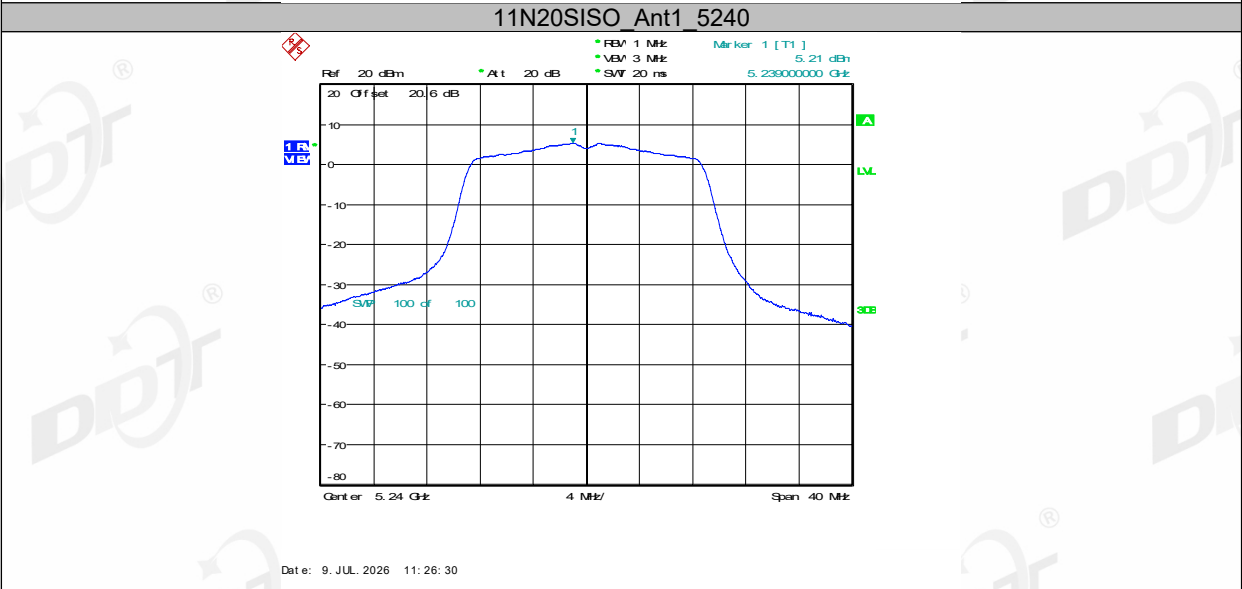
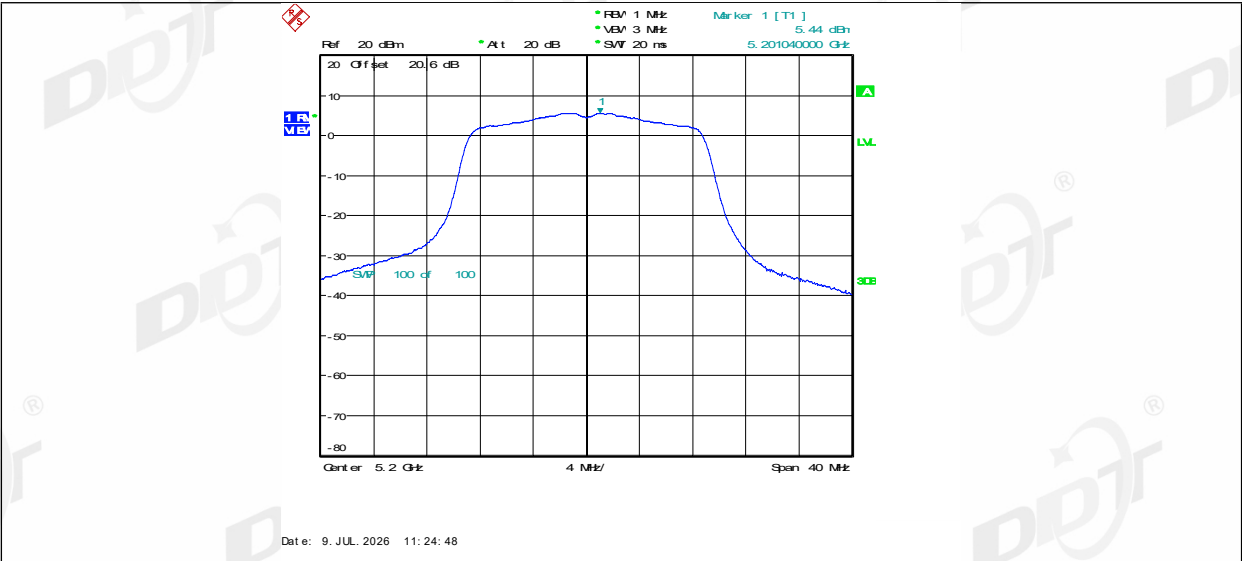


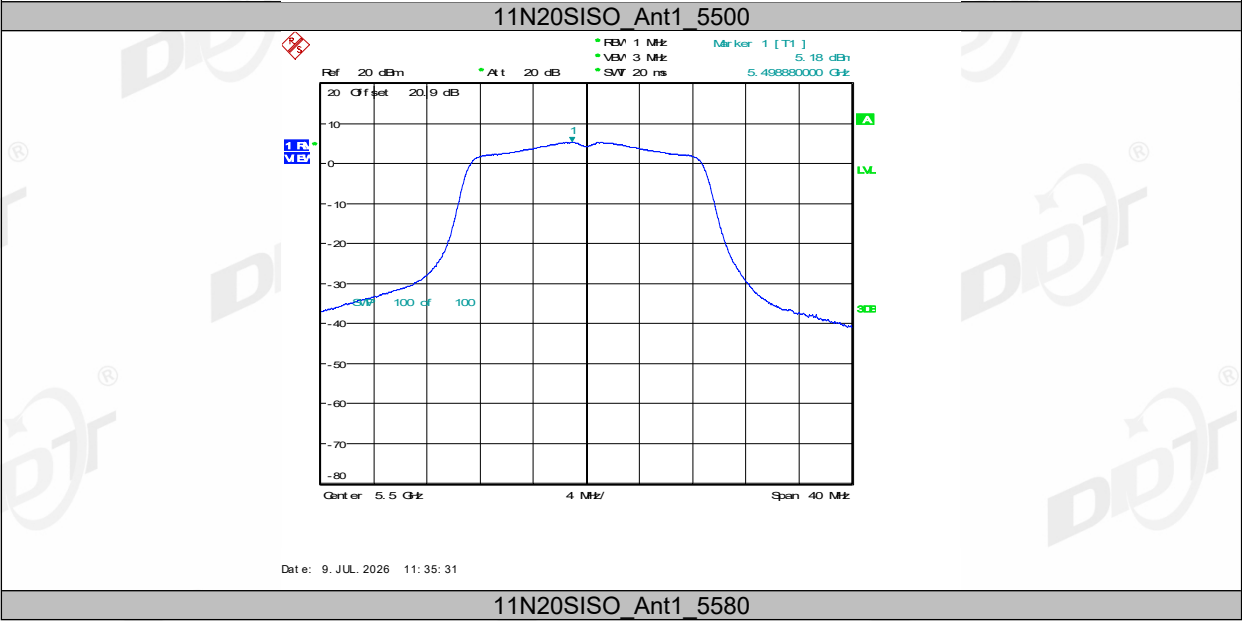
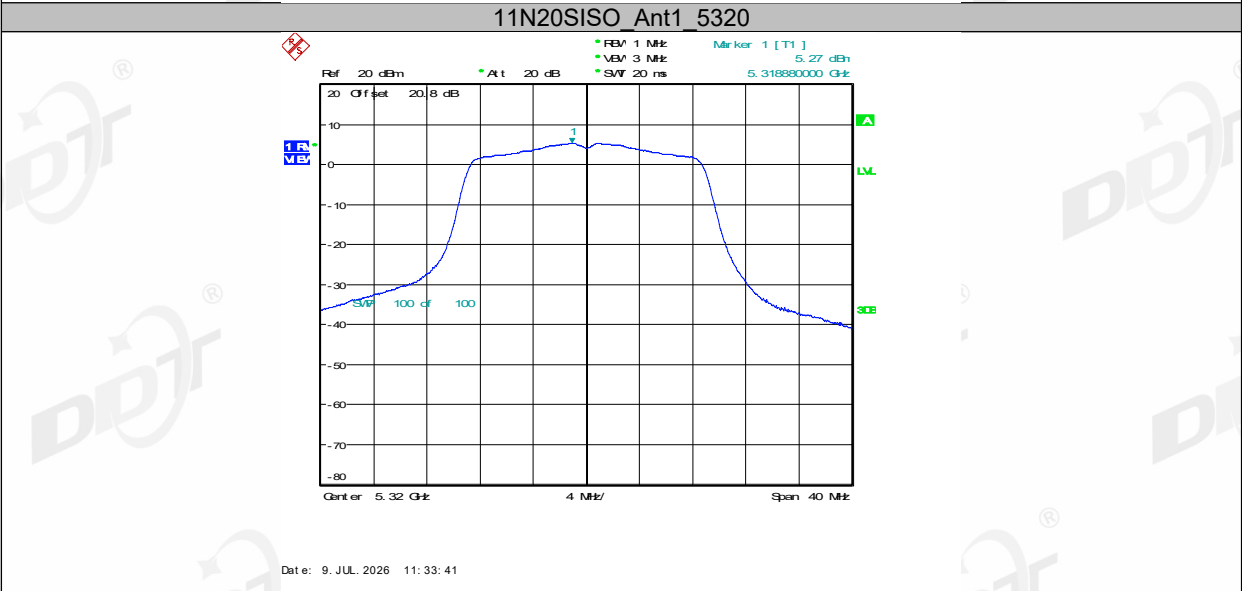
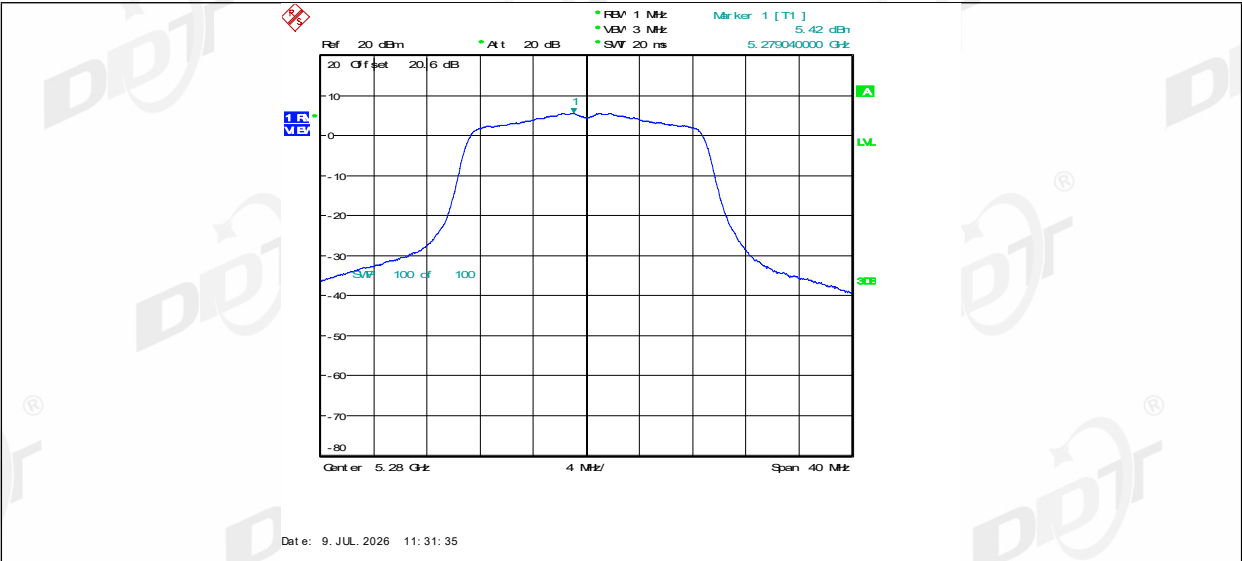
11A Ant1_5745

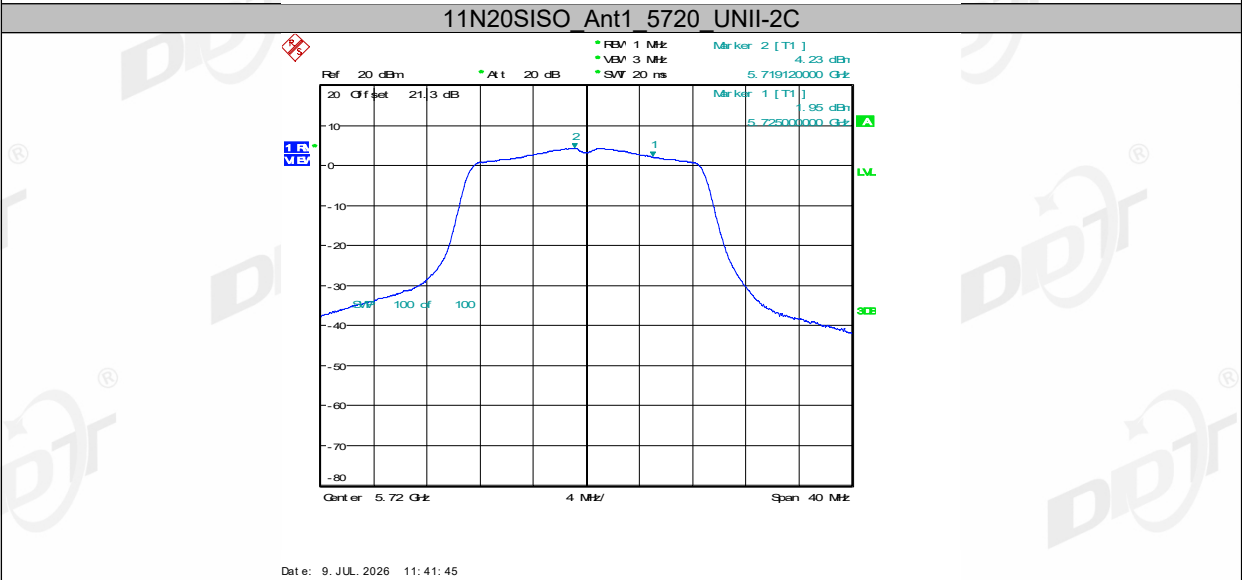
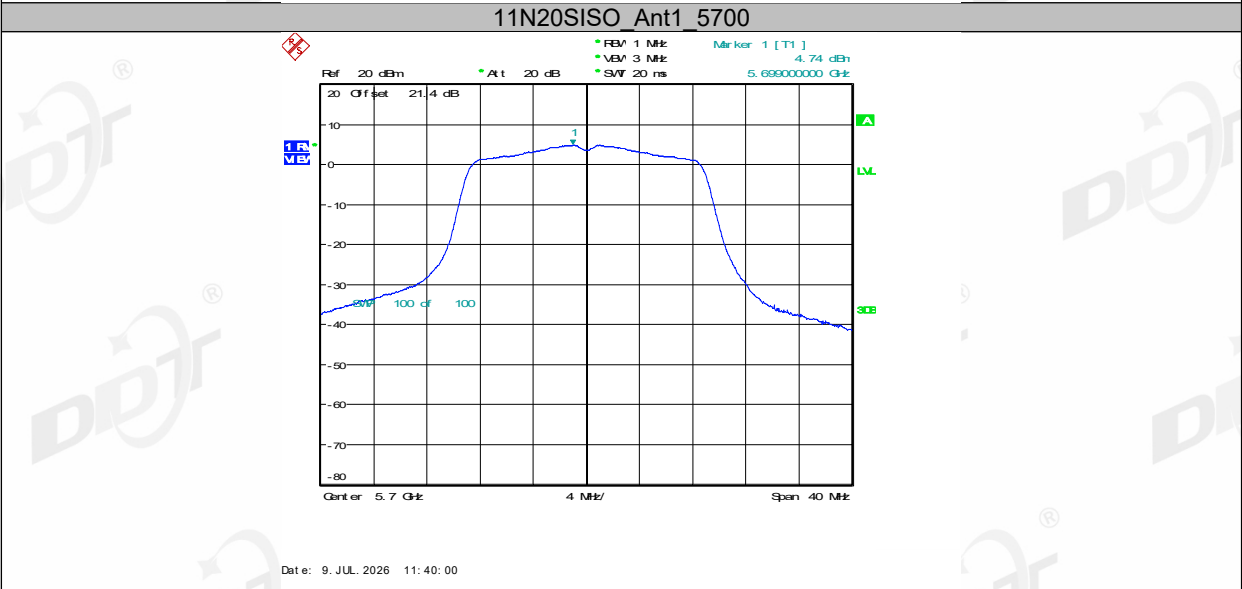
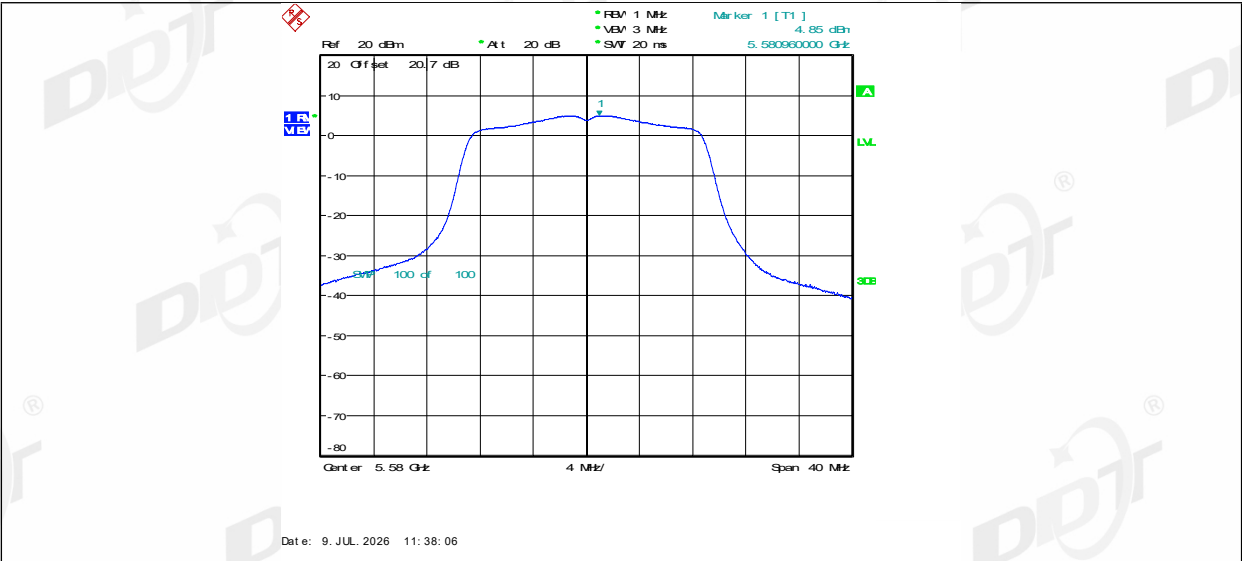


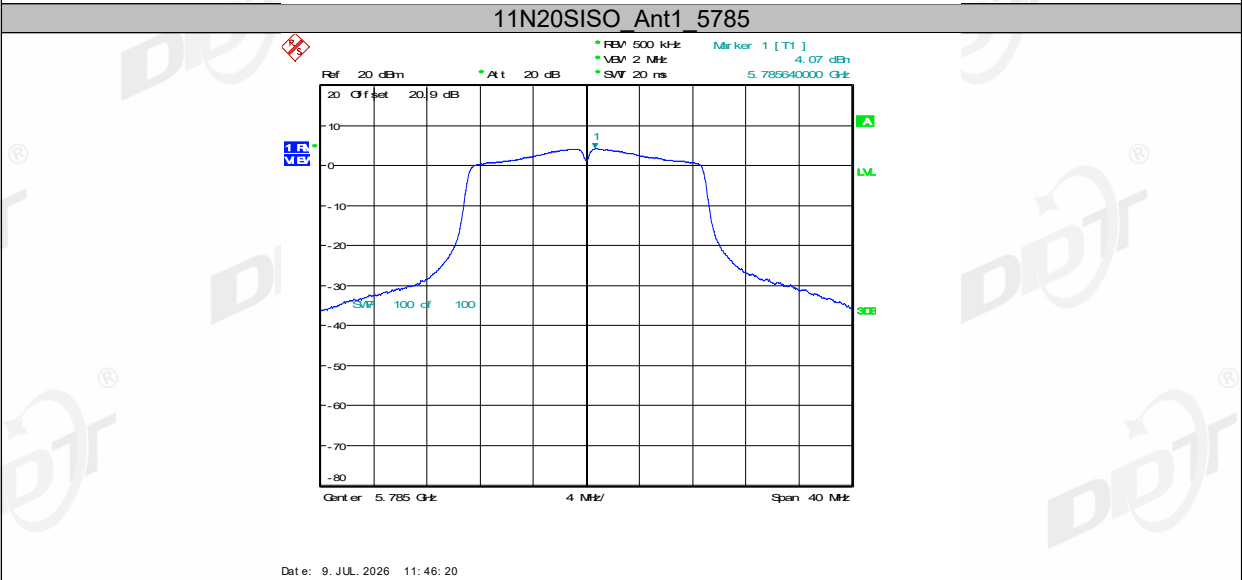
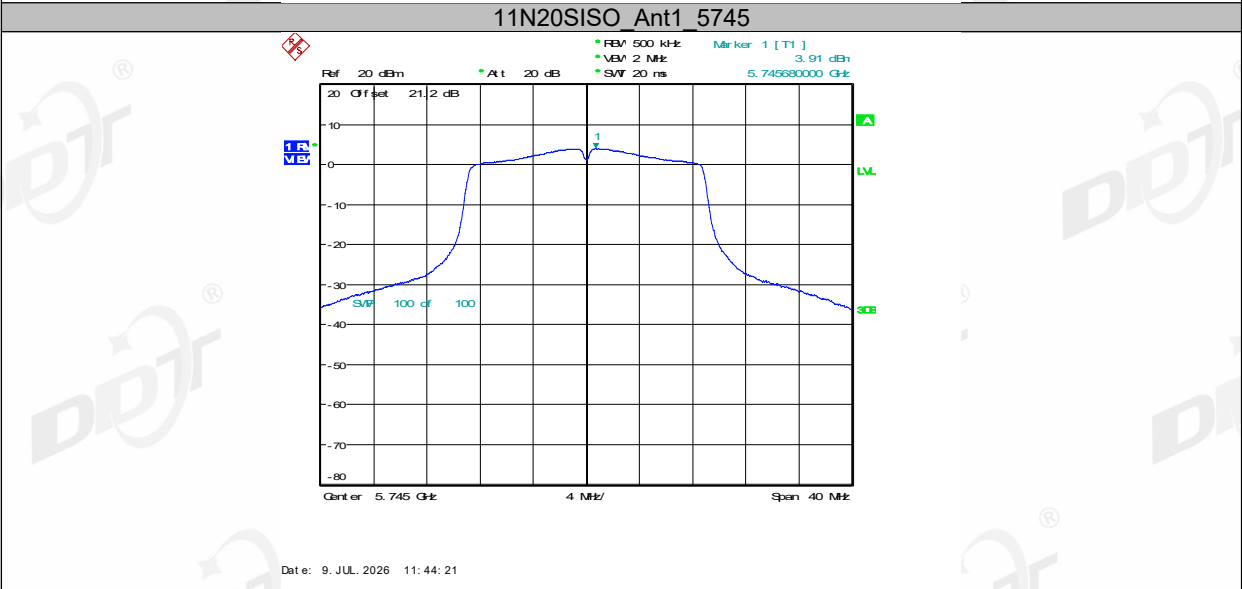
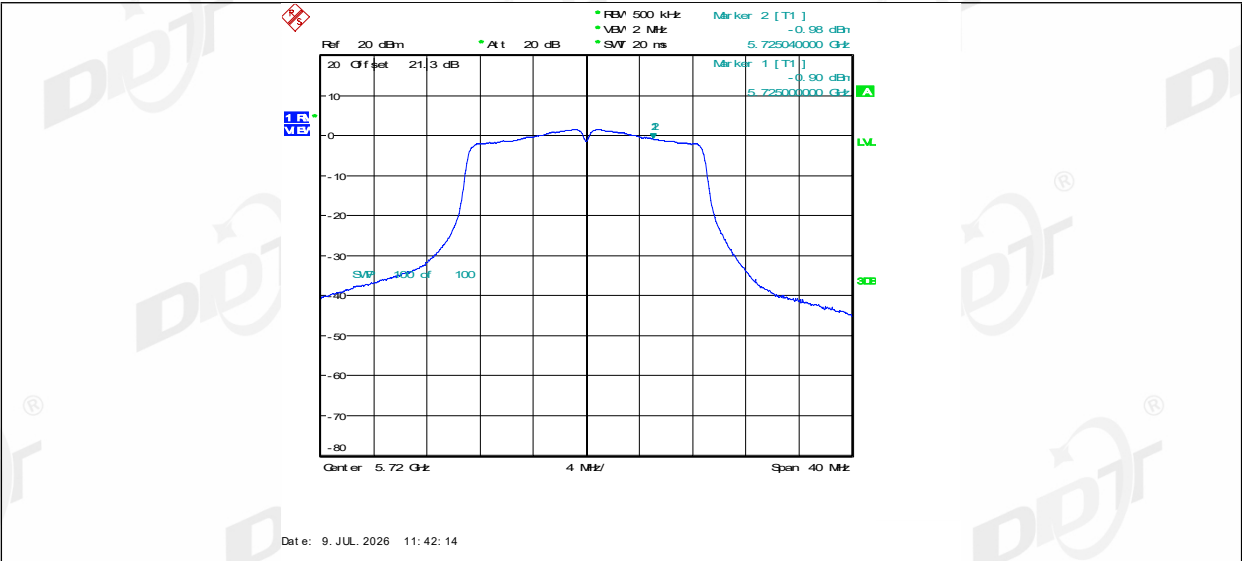
11A Ant1_5785



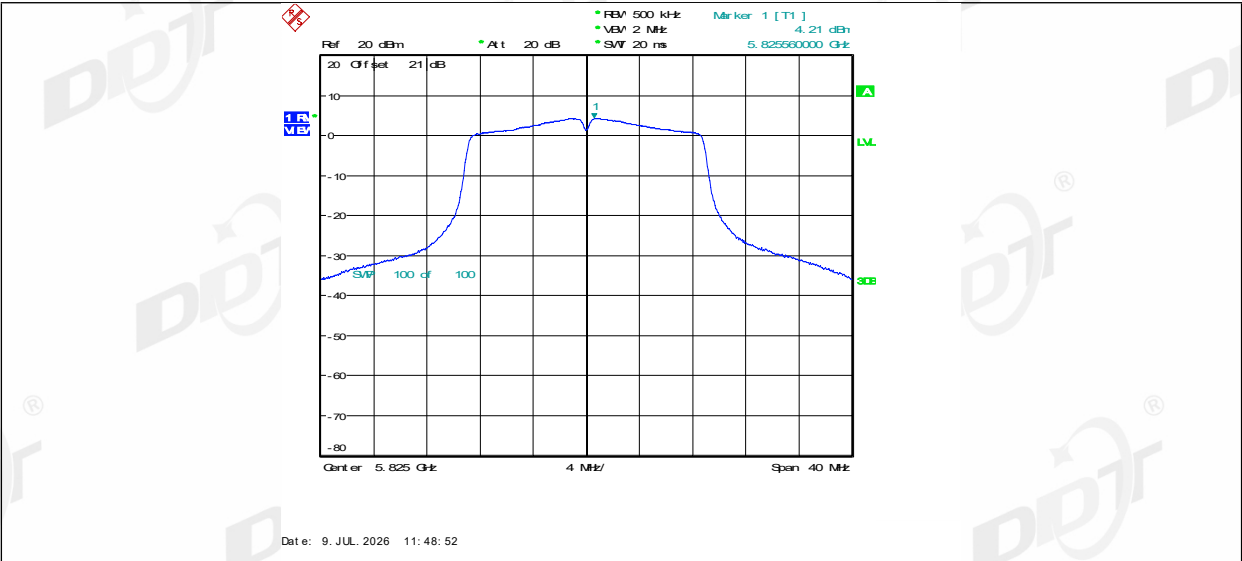




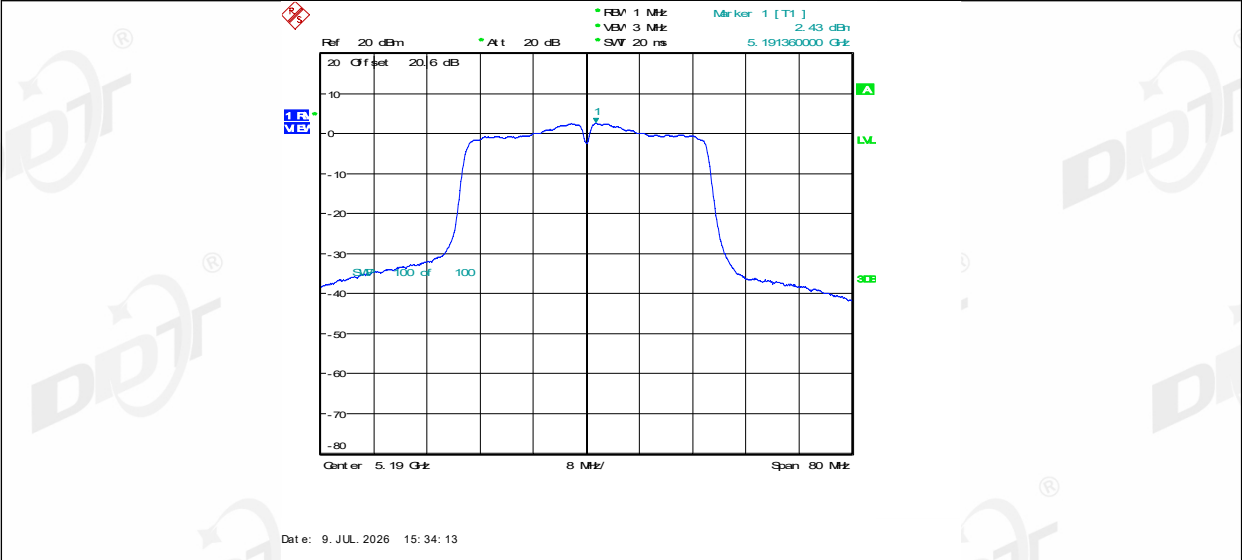




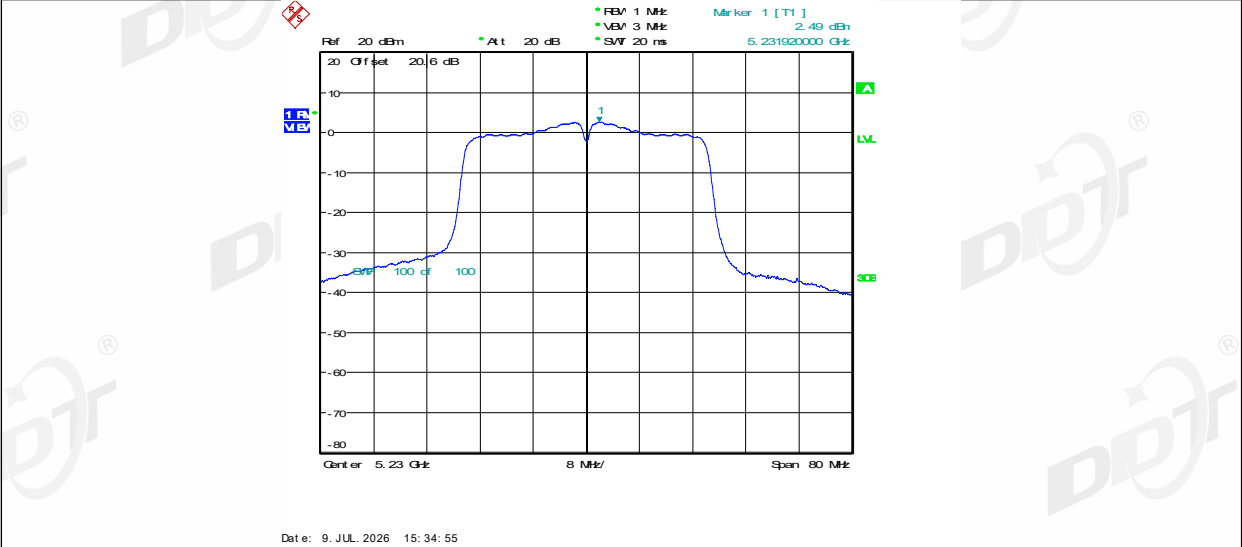
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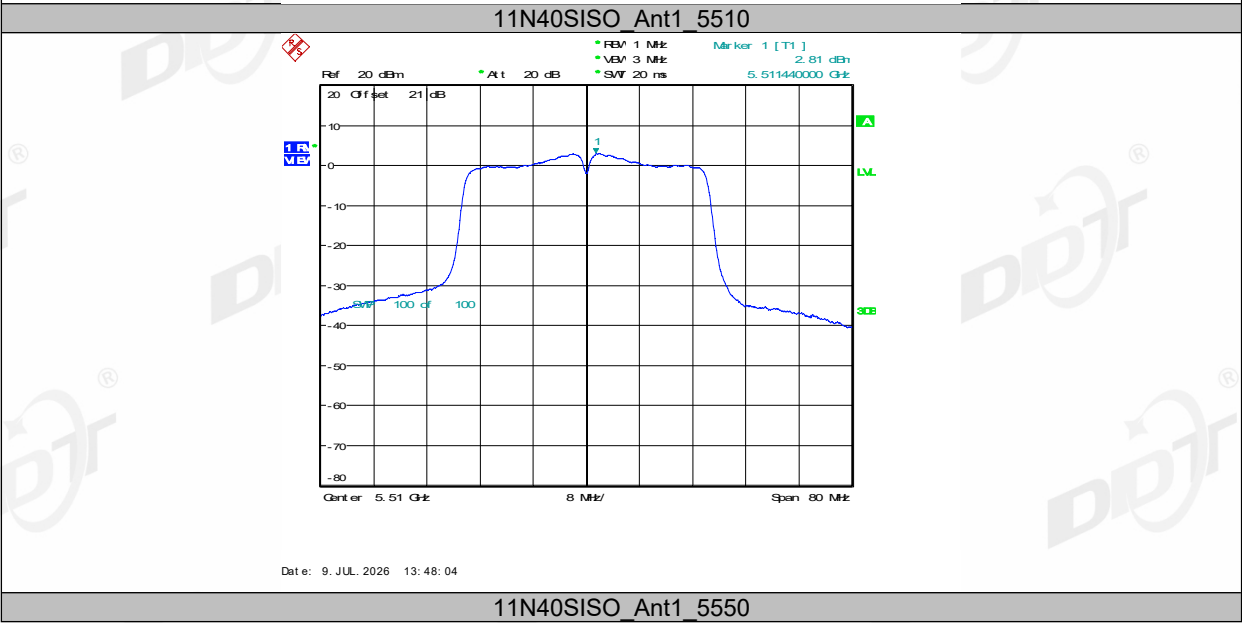
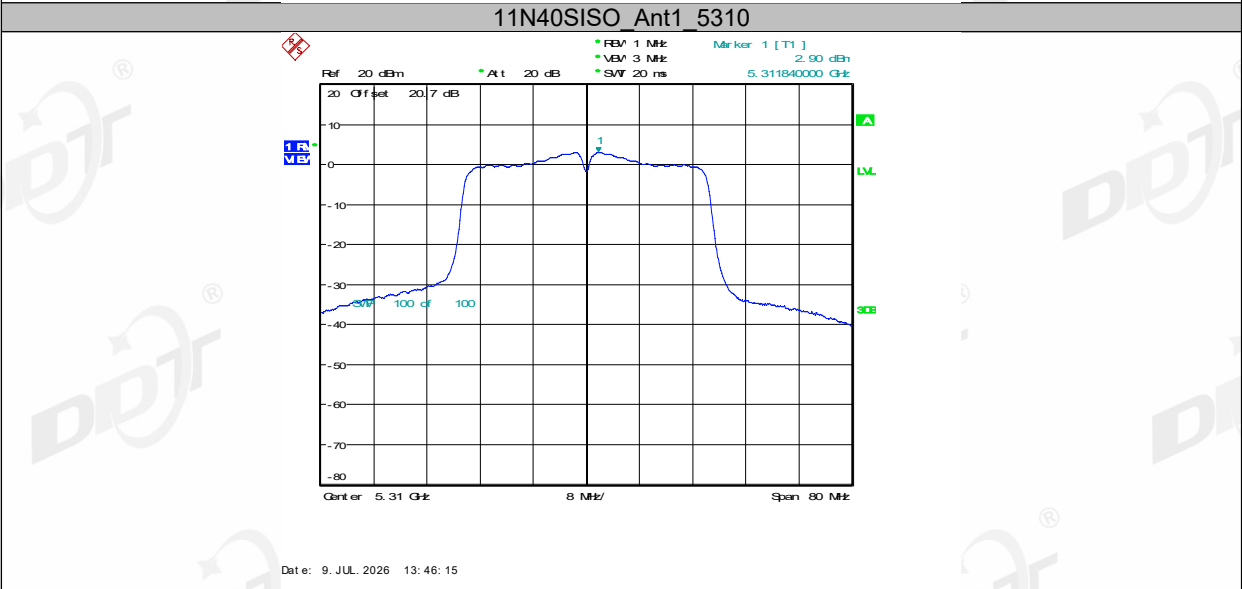
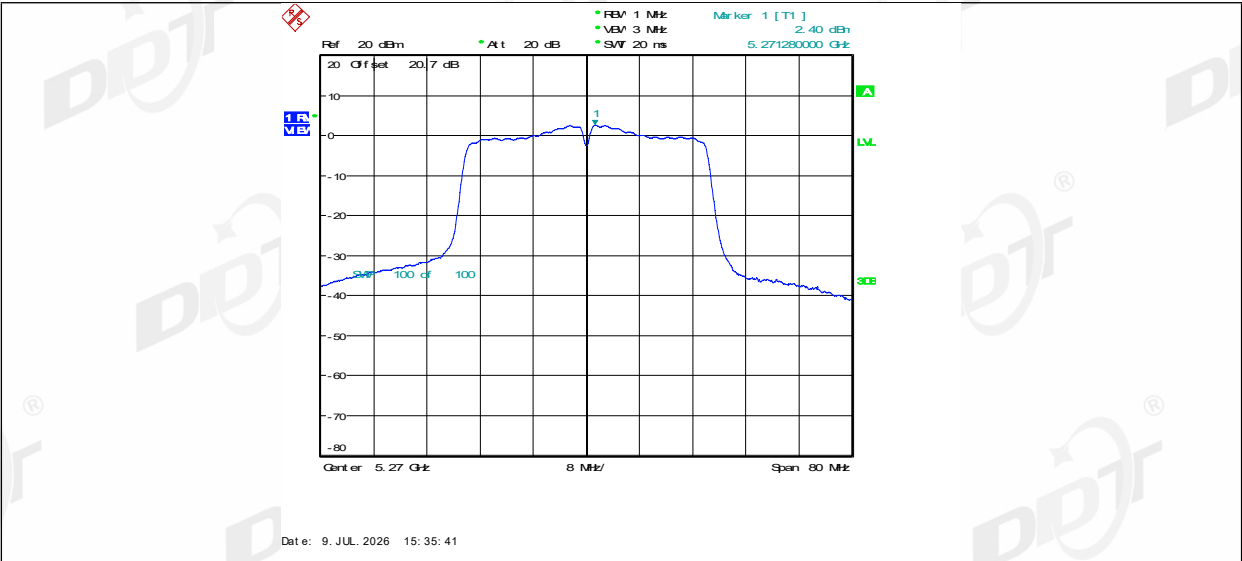
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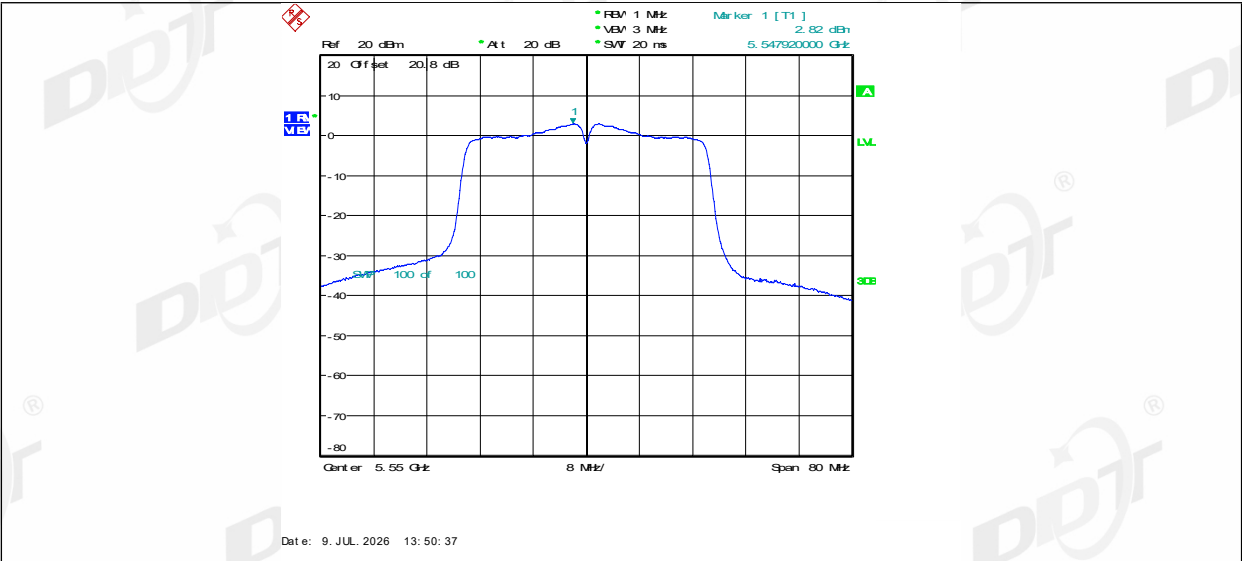


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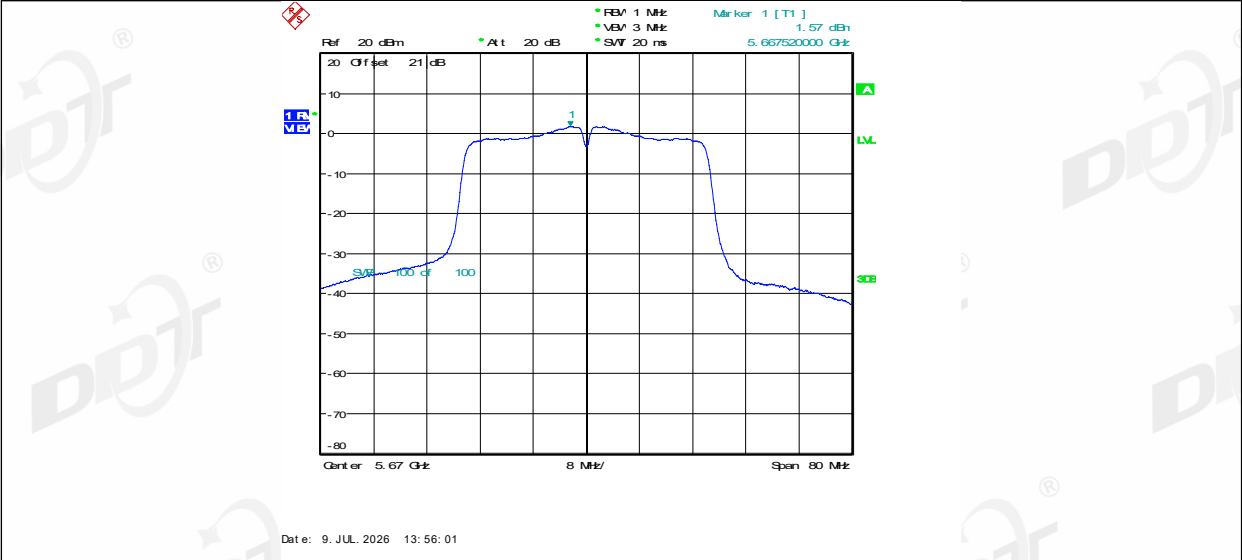


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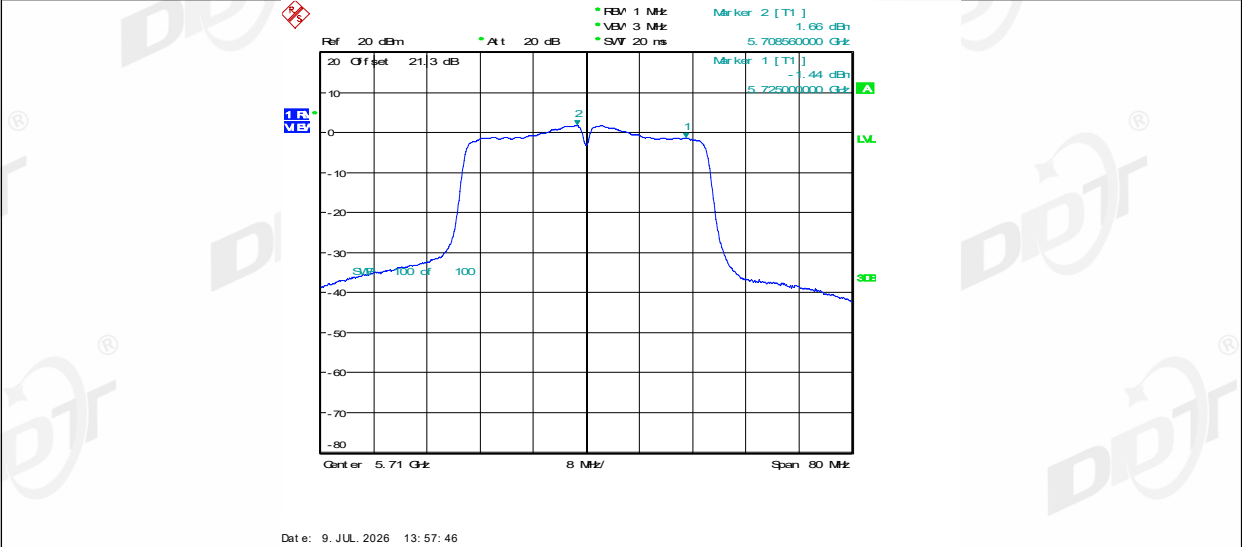




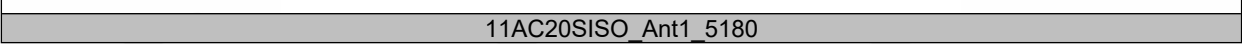
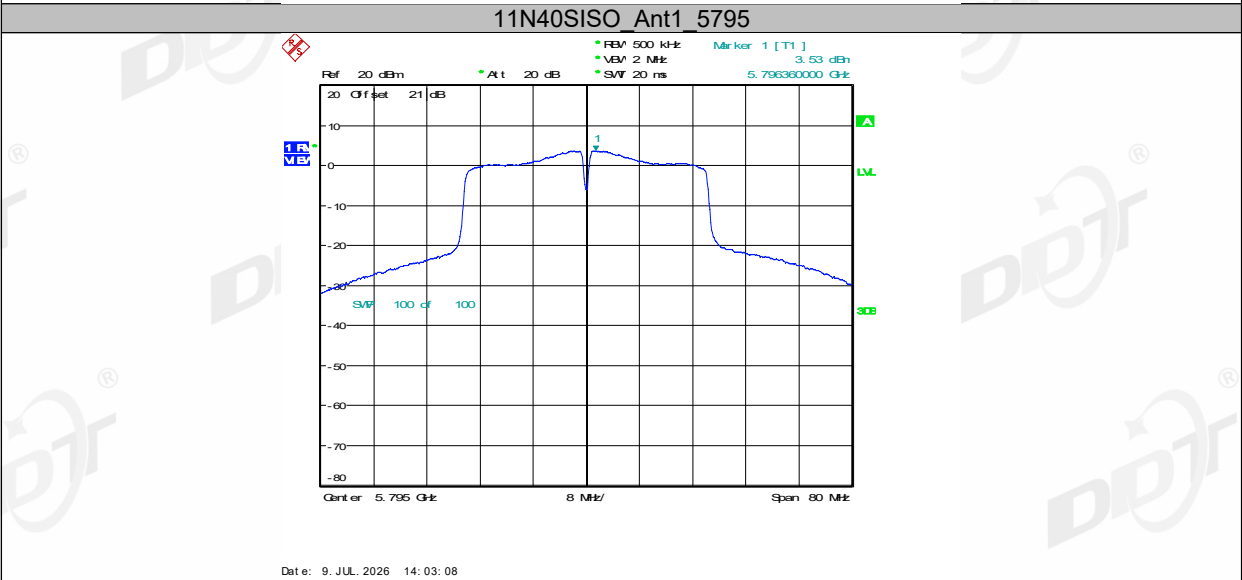
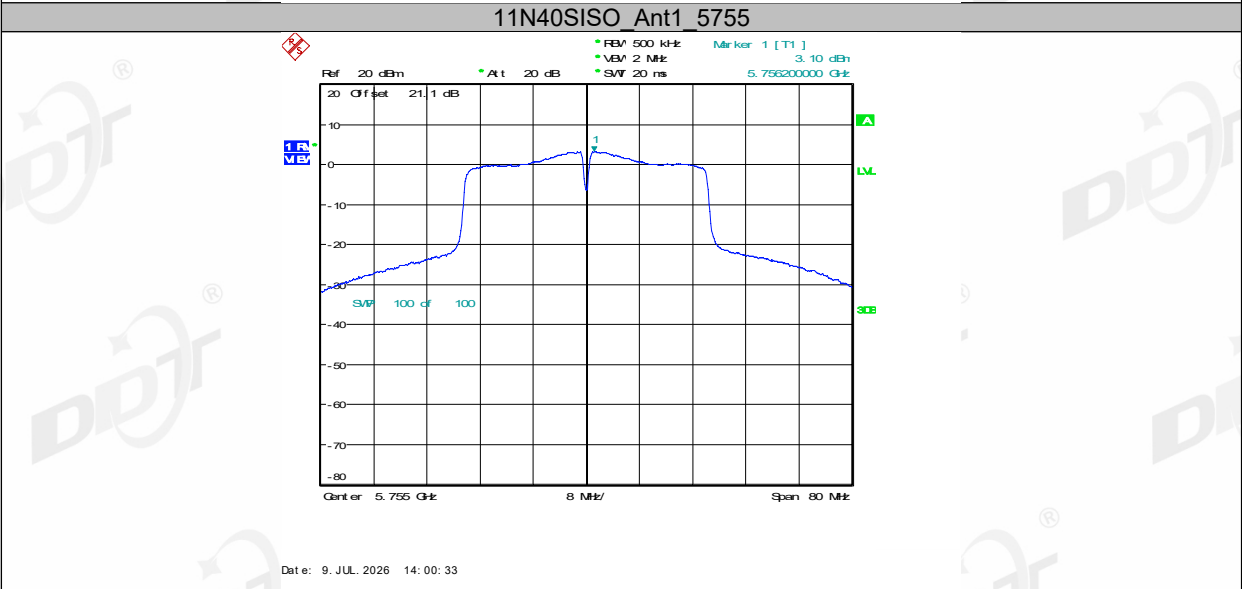
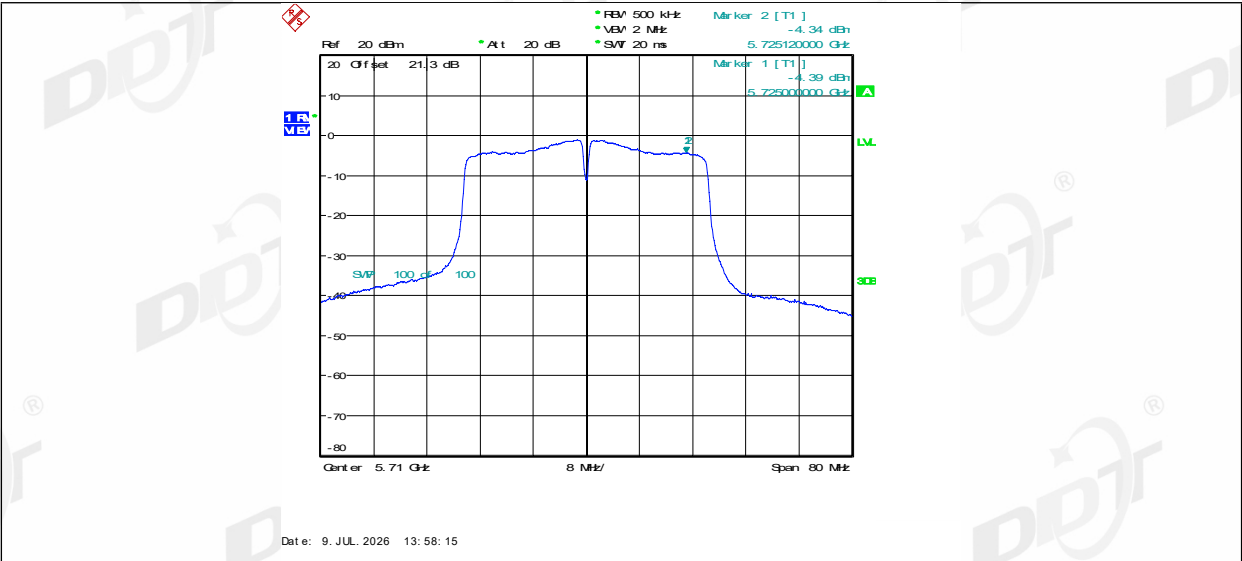
11N40SISO Ant1_5670

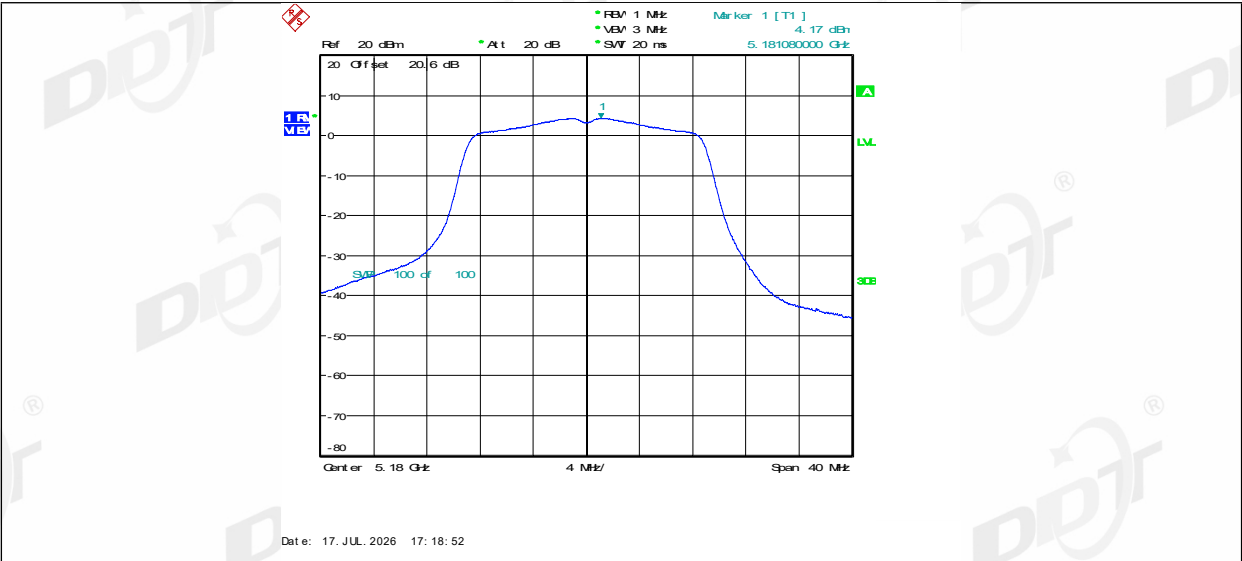


11N40SISO Ant1_5710 UNII-2C

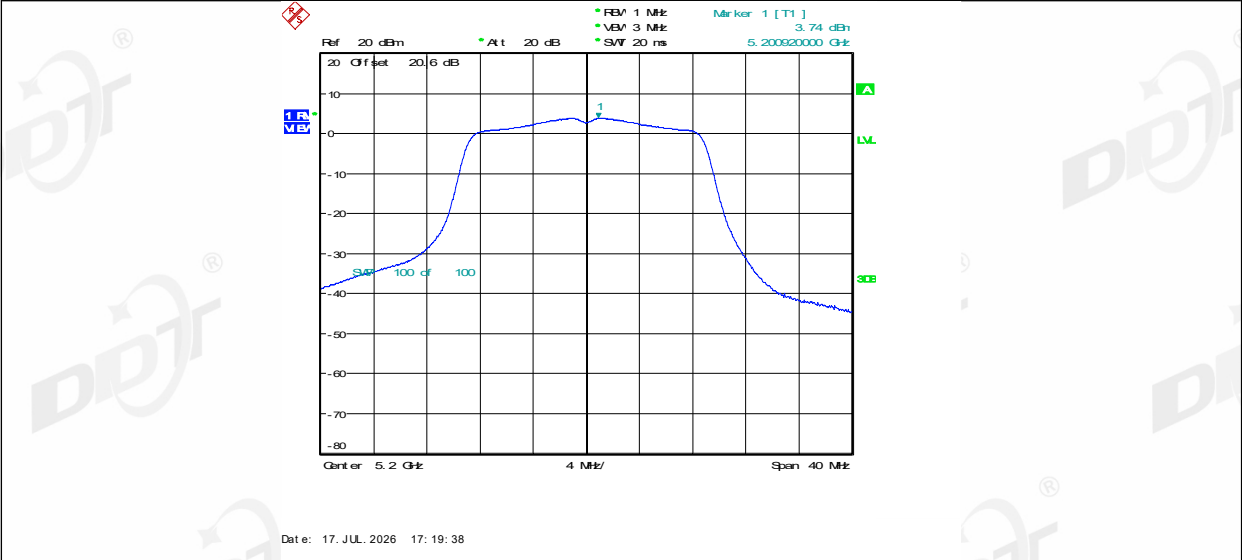


11N40SISO Ant1_5710 UNII-3

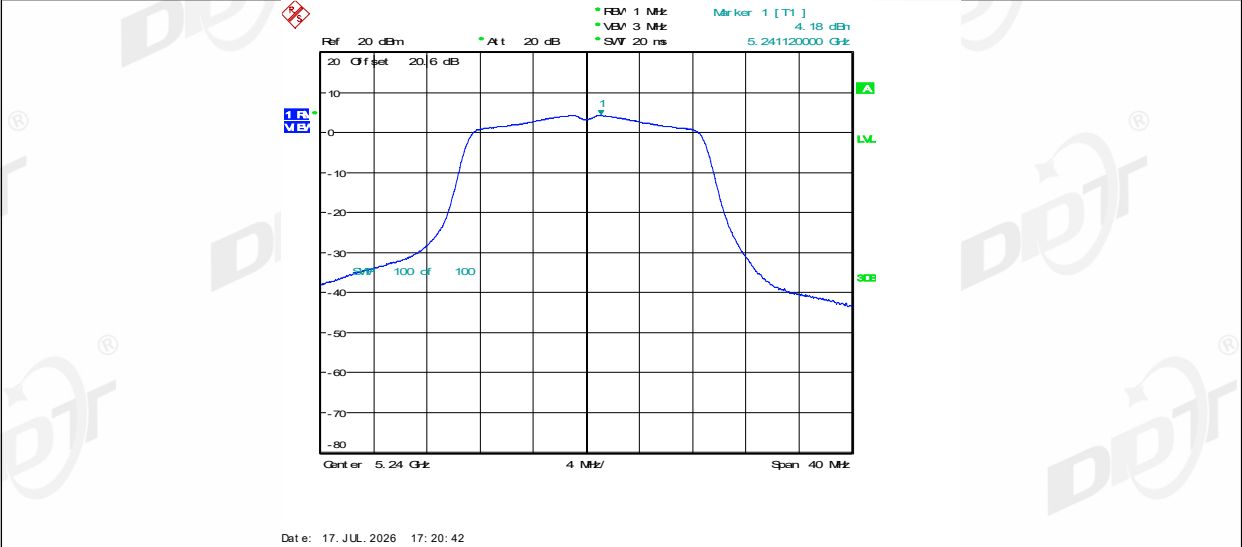




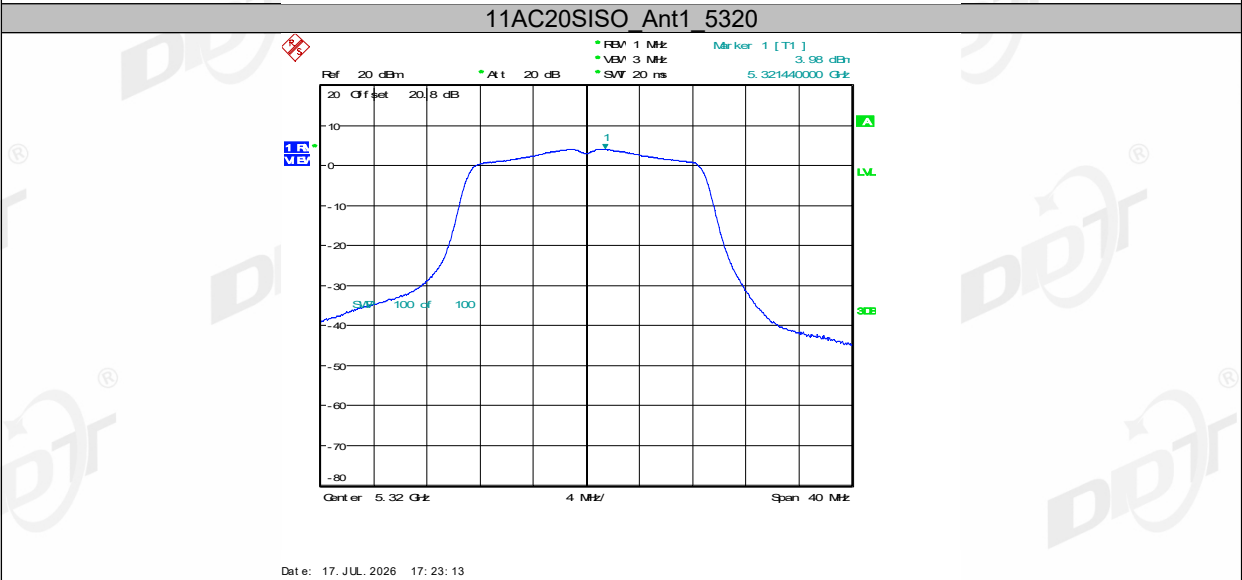
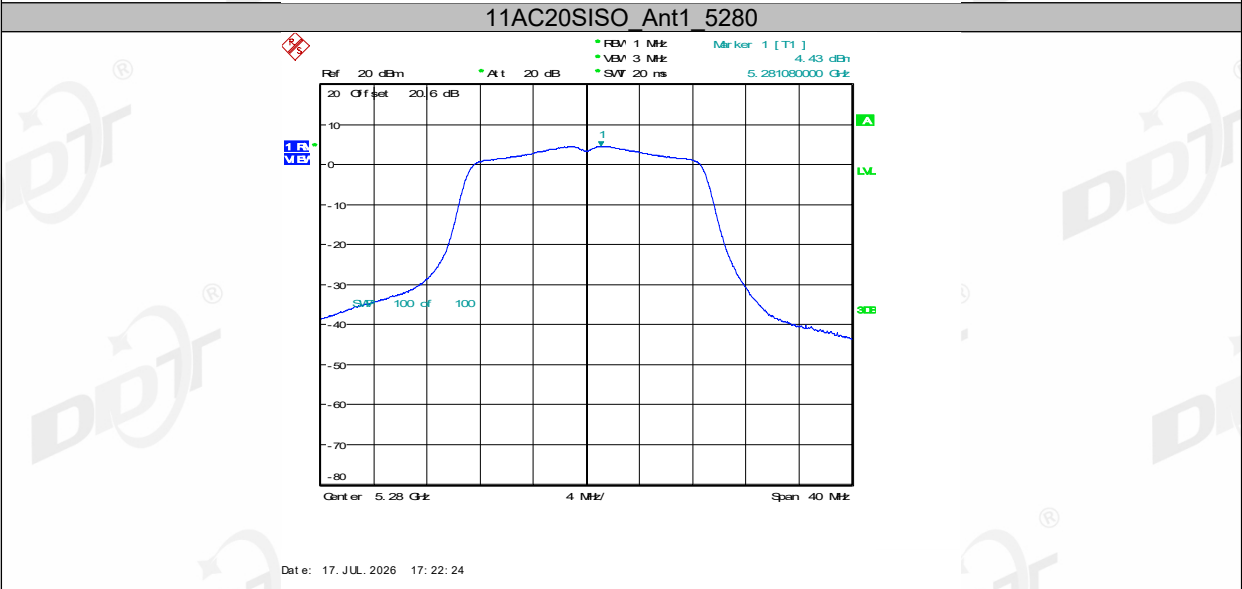
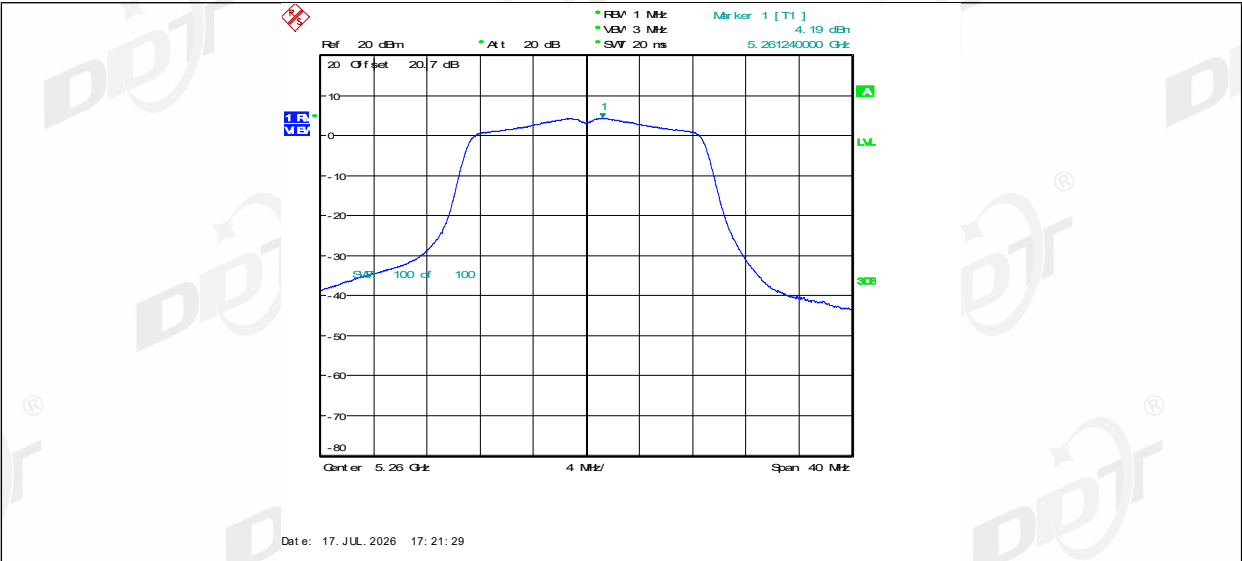
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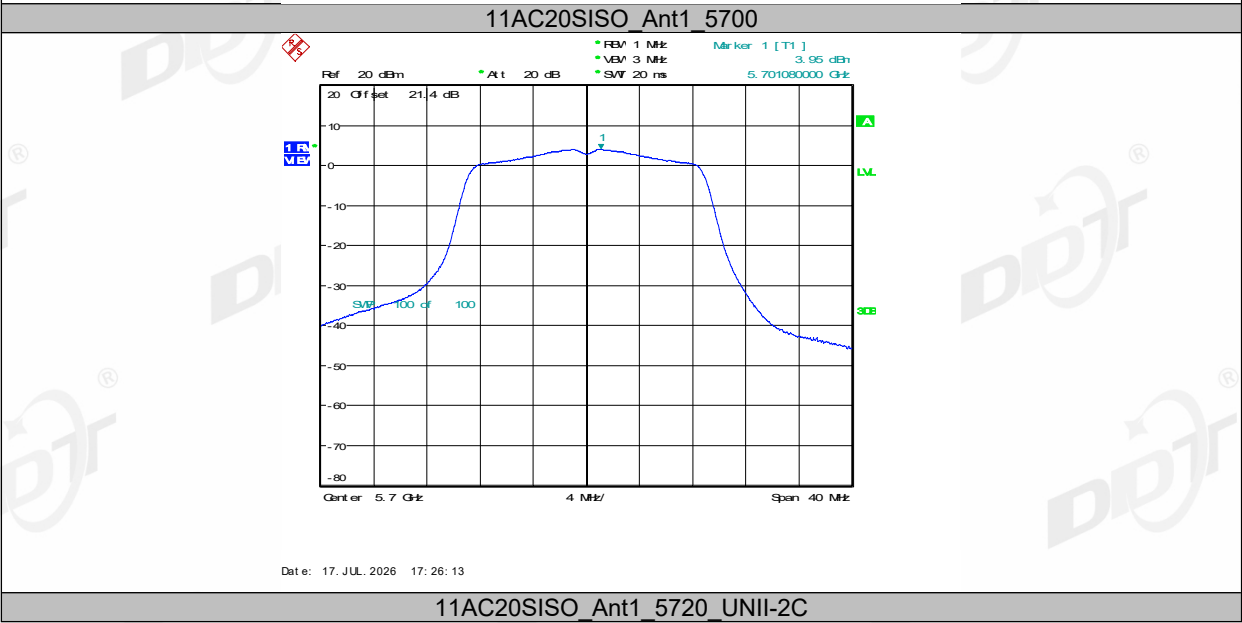
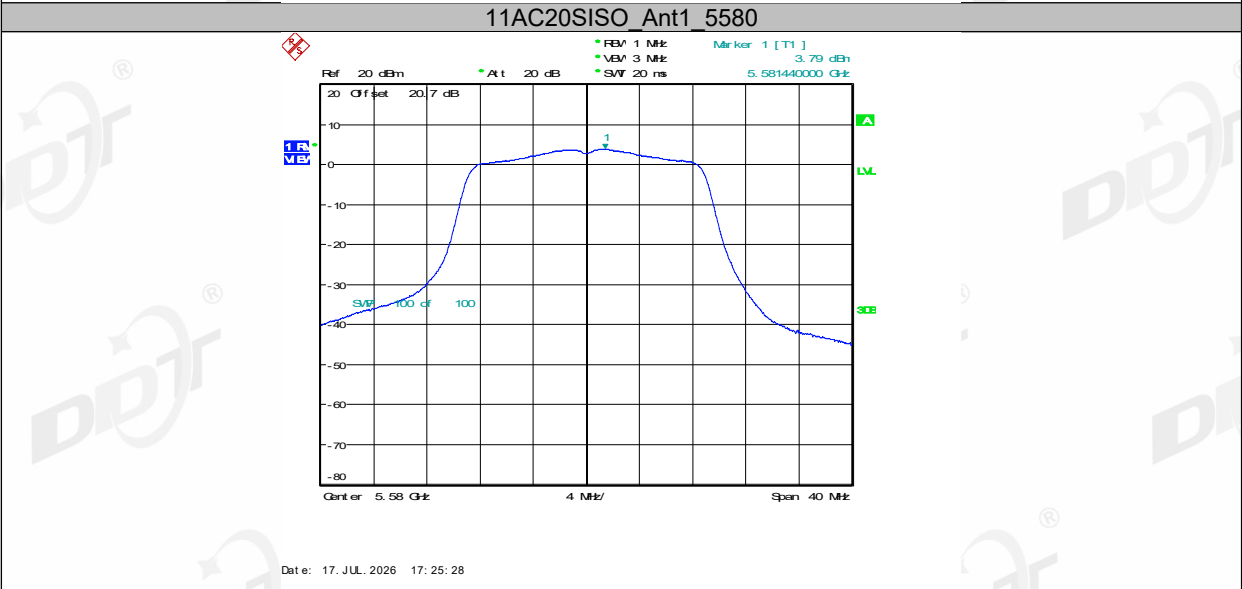
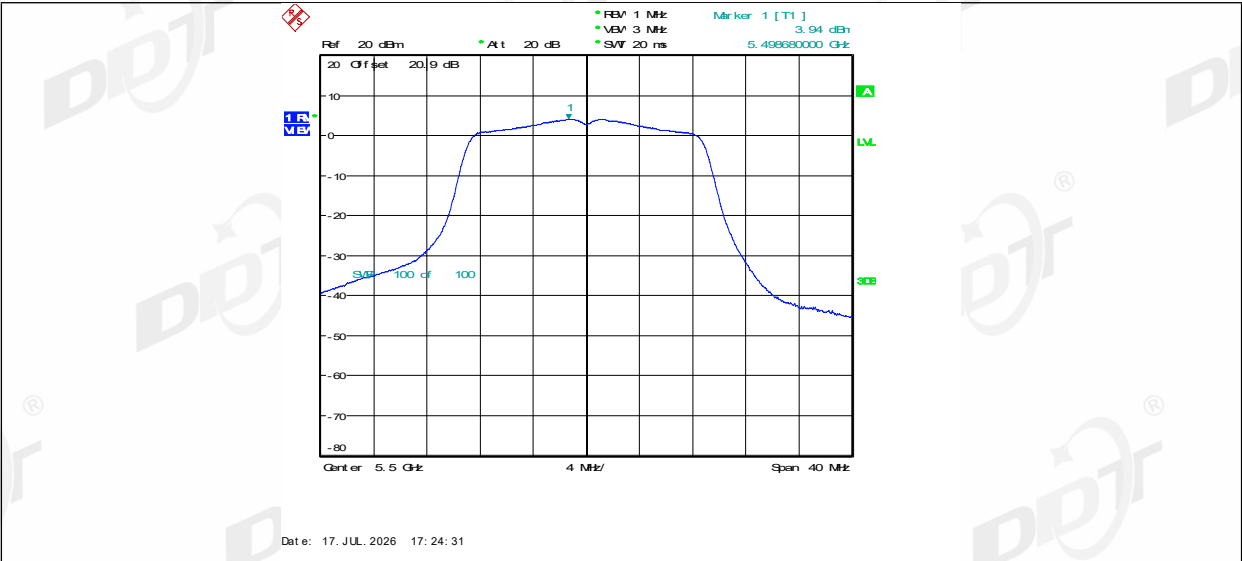


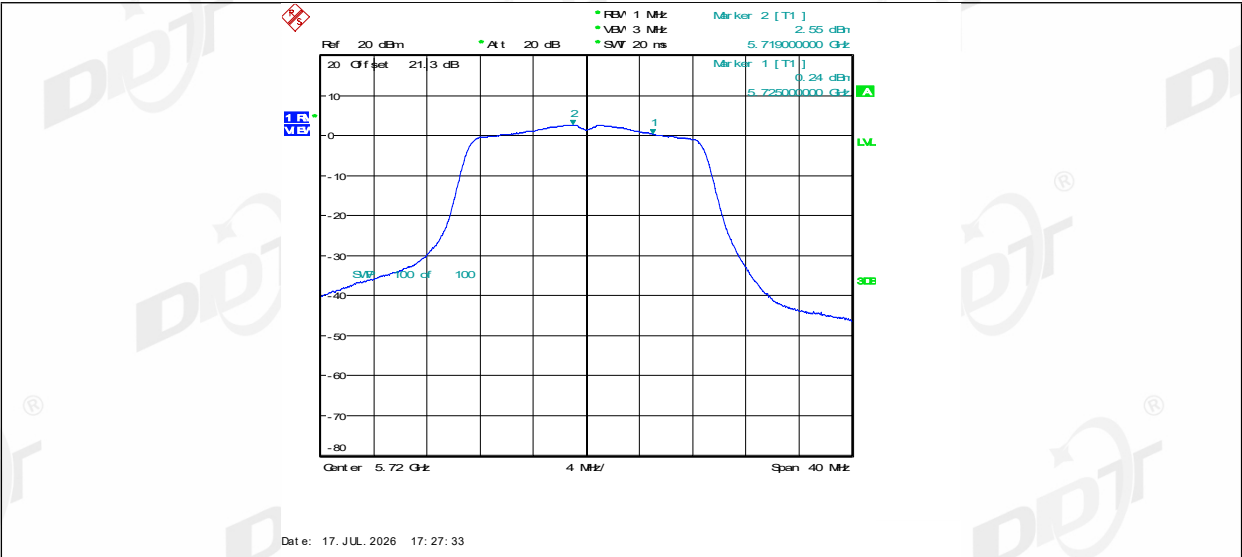
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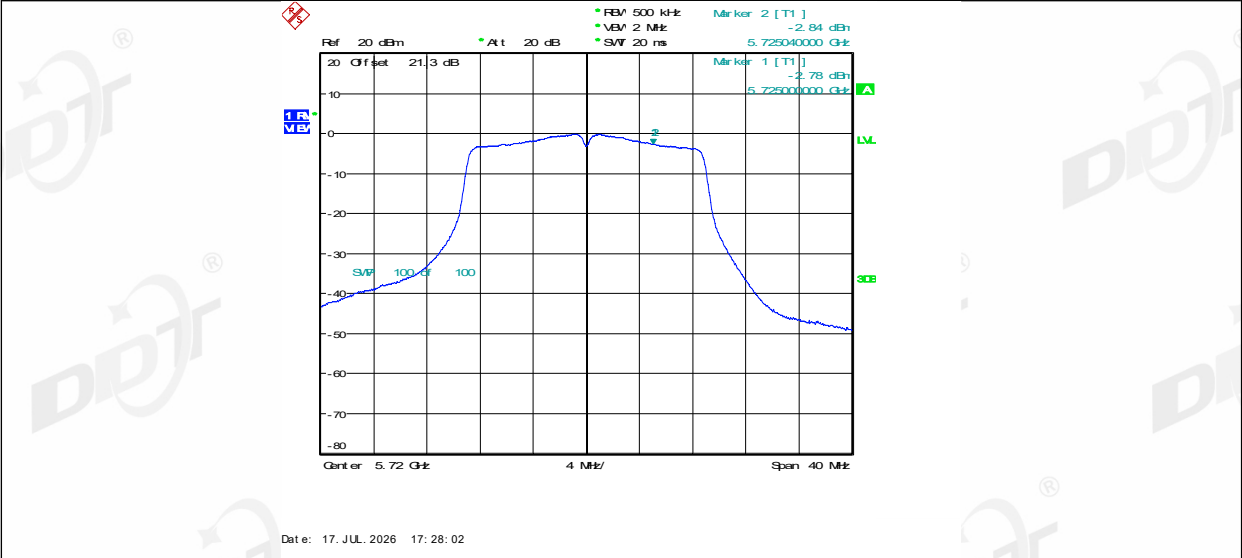
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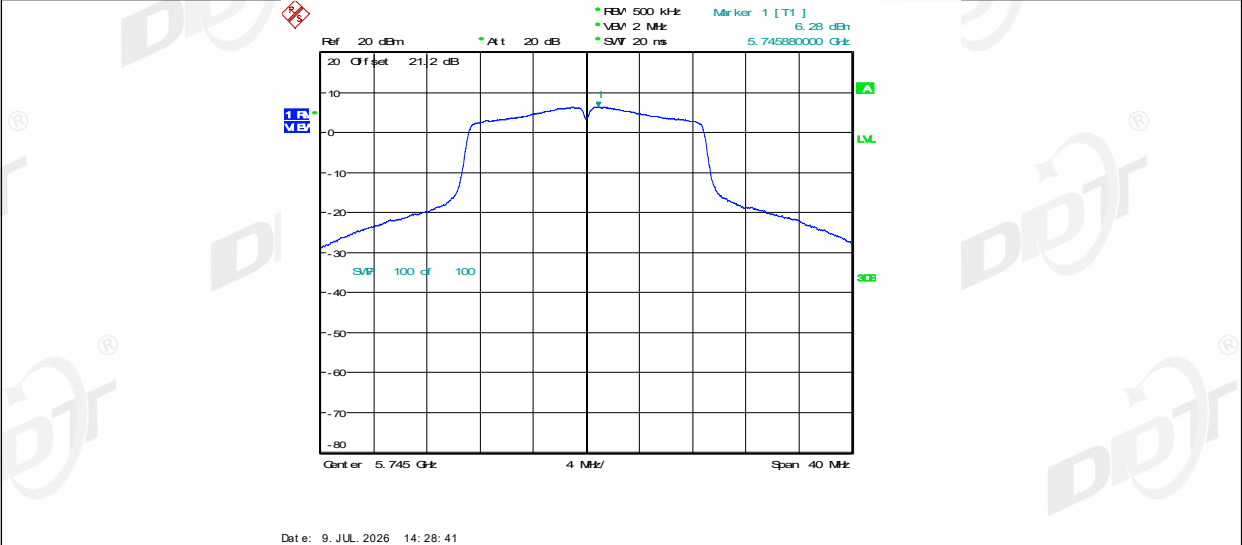




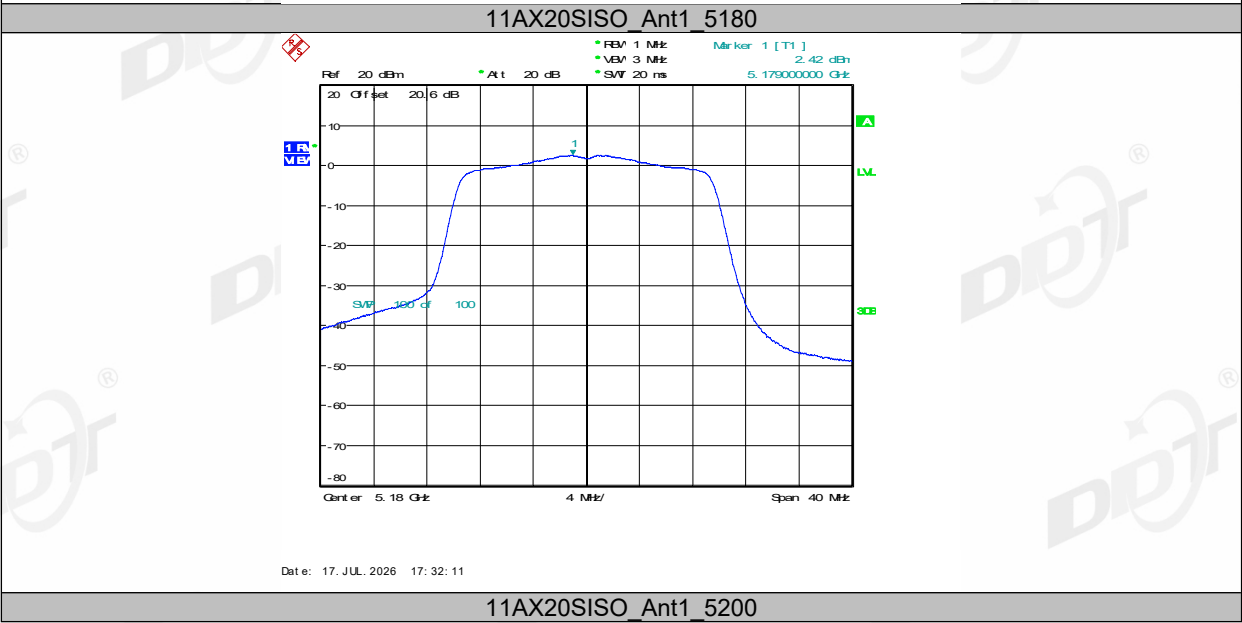
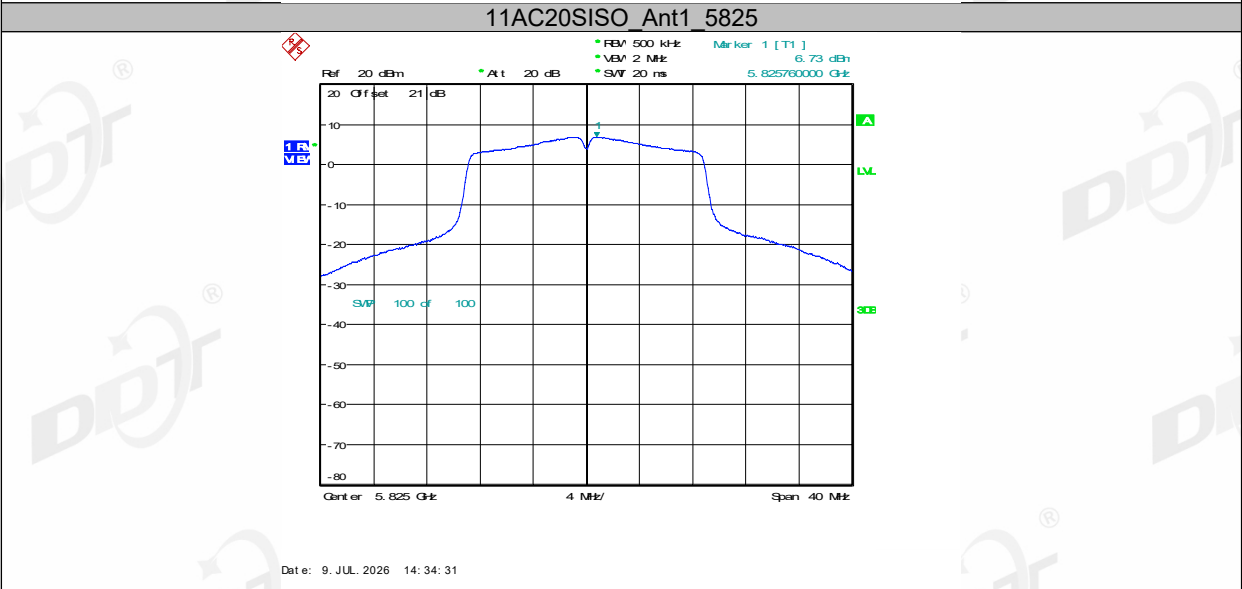
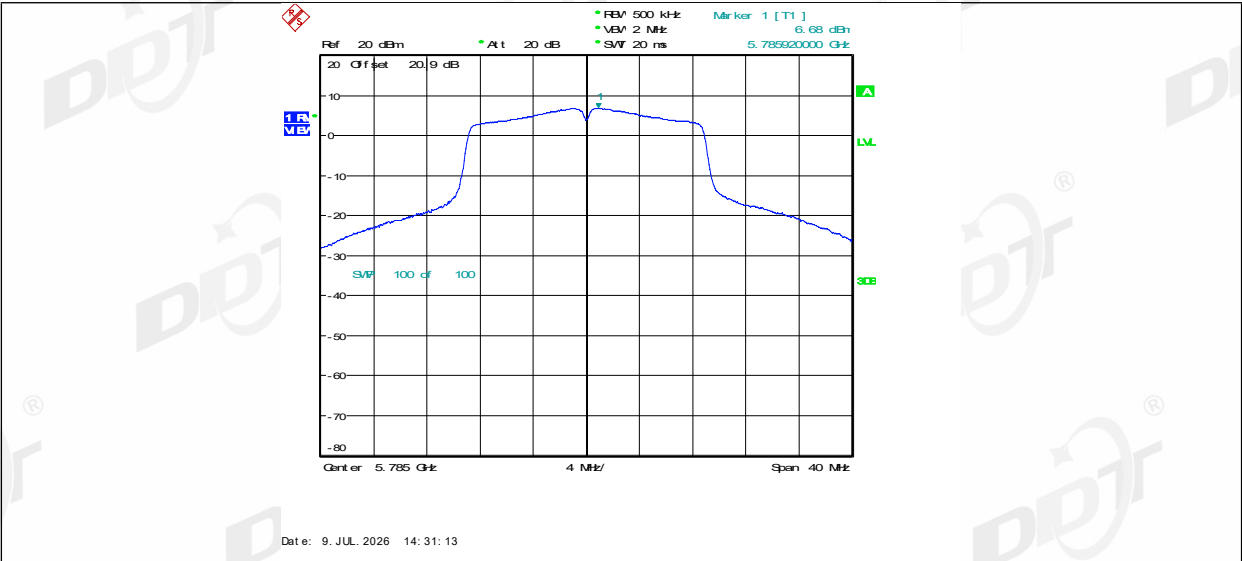
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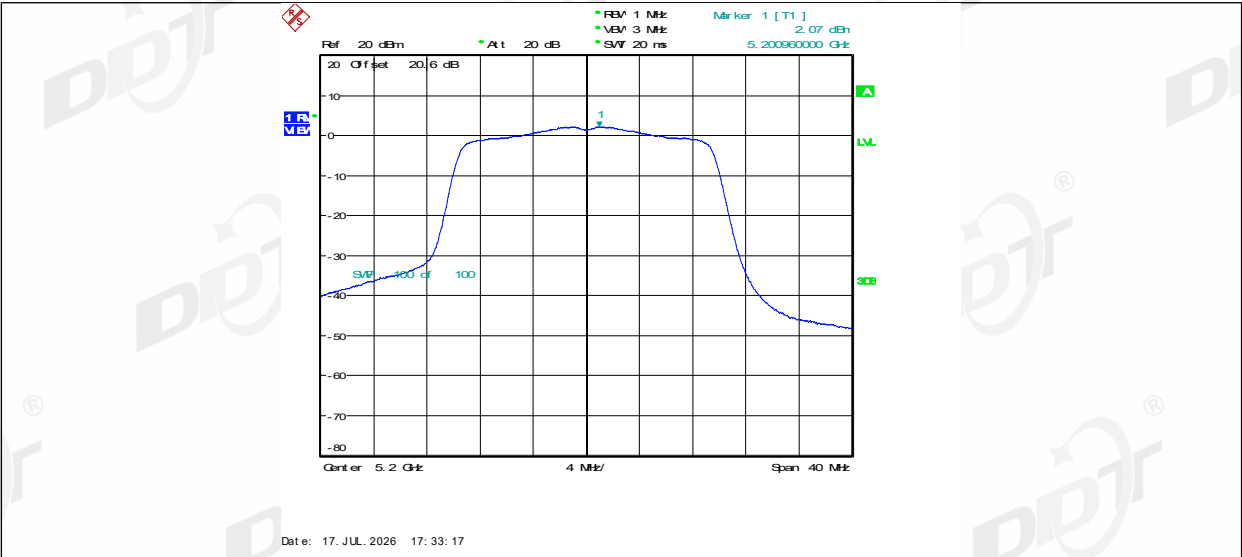


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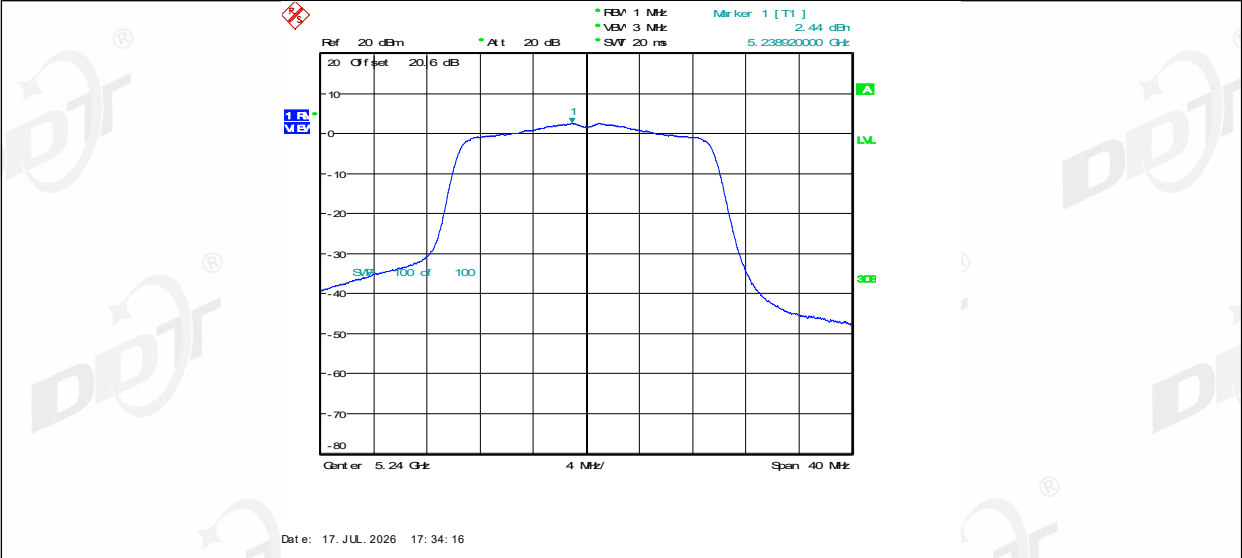


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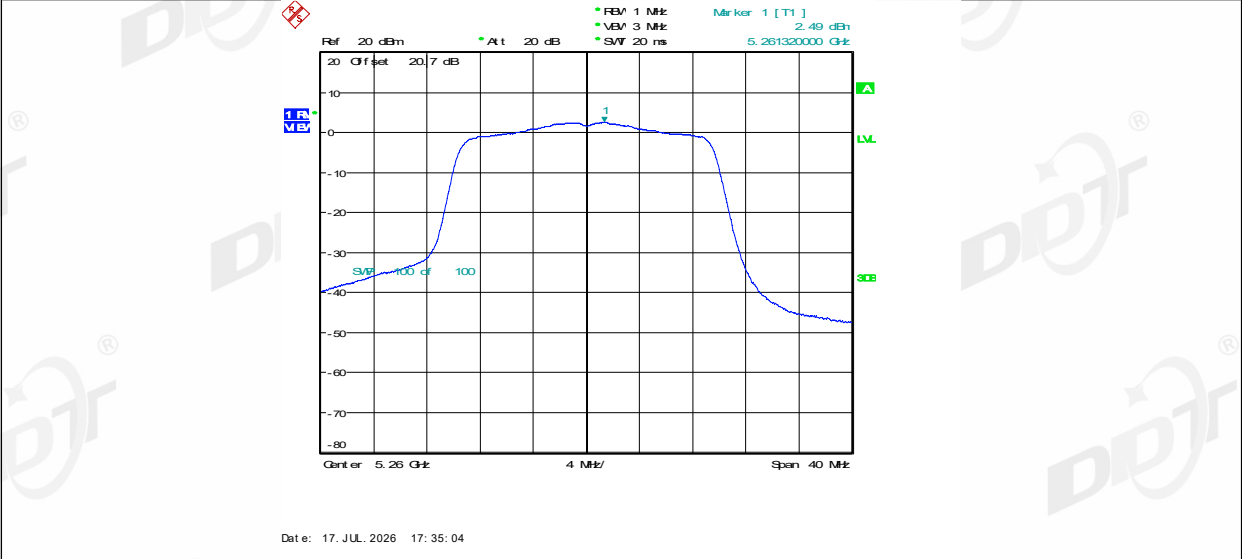




11AX20SISO_Ant1_5240



11AX20SISO_Ant1_5260



11AX20SISO_Ant1_5280