



RADIO TEST REPORT

Applicant	:	Shenzhen Maxmade Auto Electronics Co., Ltd.
Address of Applicant	:	Floor 1-4, Building 2, No.26, Puzai Road, Pingdi Avenue, Longgang District, Shenzhen City, Guangdong Province, P. R. China - 518117
Manufacturer	:	Shenzhen Maxmade Auto Electronics Co., Ltd.
Address of Manufacturer	:	Floor 1-4, Building 2, No.26, Puzai Road, Pingdi Avenue, Longgang District, Shenzhen City, Guangdong Province, P. R. China - 518117
Equipment under Test	:	Monitor System
Model No.	:	AV-151E-TW, AV-151E-TWB, AV-151E-TWC, AV-151E-TWD, AV-151E-TWE
FCC ID	:	2AT9B-TC250AV151ETW
Test Standard(s)	:	47 CFR Part 15 Subpart E, ANSI C63.10-2020, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01
Report No.	:	DDT-RE25092809-1E06
Issue Date	:	2026/02/26
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

Table of Contents

1.	Summary of Test Results	7
2.	General Test Information.....	8
2.1.	Description of EUT	8
2.2.	Accessories of EUT	9
2.3.	Block diagram of EUT configuration for test.....	9
2.4.	Decision of final test mode	9
2.5.	Deviations of test standard	11
2.6.	Test environment conditions	11
2.7.	Test laboratory	11
2.8.	Measurement uncertainty	12
3.	Equipment Used During Conductive Test	13
4.	26dB Bandwidth	14
4.1.	Block diagram of test setup	14
4.2.	Limits	14
4.3.	Test procedure	14
4.4.	Test result.....	15
4.5.	Test graphs	16
5.	6dB Bandwidth	31
5.1.	Block diagram of test setup	31
5.2.	Limits	31
5.3.	Test procedure	31
5.4.	Test result B4	32
5.5.	Test graphs B4	33
6.	99% Bandwidth	38
6.1.	Block diagram of test setup	38
6.2.	Limits	38
6.3.	Test procedure	38
6.4.	Test result.....	39
6.5.	Test graphs	41
7.	Duty Cycle	56
7.1.	Block diagram of test setup	56
7.2.	Limit.....	56
7.3.	Test procedure	56
7.4.	Test result.....	57
7.5.	Test graphs	58
8.	Maximum Output Power	73

8.1.	Block diagram of test setup	73
8.2.	Limits	73
8.3.	Test procedure	73
8.4.	Test result channel power	74
9.	Power Spectral Density	75
9.1.	Block diagram of test setup	75
9.2.	Limits	75
9.3.	Test procedure	75
9.4.	Test result.....	77
9.5.	Test graphs	78
10.	Frequency Stability Measurement.....	93
10.1.	Limit of Frequency Stability	93
10.2.	Measuring Instruments.....	93
10.3.	Test procedures	93
10.4.	Test setup.....	93
10.5.	Test result.....	94
11.	Dynamic Frequency Selection.....	100
11.1.	Applicability of DFS requirements	100
11.2.	Limit.....	101
11.3.	Parameters of radar test waveforms	101
11.4.	Calibration of radar waveform	102
11.5.	Test Graphs.....	104
11.6.	Channel closing transmission time, channel move time and non-occupancy period	107
11.7.	Test setup.....	107
11.8.	Test result.....	109
11.9.	Test Graphs.....	110
12.	Antenna Requirements.....	111
12.1.	Limit.....	111
12.2.	Result	111
13.	Radiated Emission	112
13.1.	Test equipment.....	112
13.2.	Block diagram of test setup	113
13.3.	Limits	114
13.4.	Assistant equipment used for test	115
13.5.	Test procedure	115
13.6.	Test result.....	117
13.7.	Test data	118
14.	Band Edge Compliance.....	138

14.1. Test equipment.....138

14.2. Block diagram of test setup.....139

14.3. Limits 139

14.4. Assistant equipment used for test 139

14.5. Test procedure 139

14.6. Test result.....140

14.7. Test data 141

15. Test Setup Photograph 193

16. Photos of the EUT 195

Test Report Declare

Applicant	:	Shenzhen Maxmade Auto Electronics Co., Ltd.
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Equipment under Test	:	Monitor System
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Address of Manufacturer	:	Floor 1-4, Building 2, No.26, Puzai Road, Pingdi Avenue, Longgang District,Shenzhen City, Guangdong Province, P. R. China - 518117

Test Standard Used:

47 CFR Part 15 Subpart E,
ANSI C63.10-2020,
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-RE25092809-1E06		
Date of Receipt:	2025/10/21	Date of Test:	2025/10/21 - 2025/12/30

Created: Chen Ziqin	Reviewed: Zoe Peng	Approved: Damon Hu
		
2025/12/25	2026/02/26	2026/02/26

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	2026/02/26	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% 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	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h)	/	Pass
8	Antenna Requirement	47 CFR Part 15.203	/	Pass
9	Power Line Conducted Emissions	47 CFR Part 15 15.207(a)	/	N/A
Note: 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.				

2. General Test Information

2.1. Description of EUT

EUT Name	:	Monitor System
Model Number	:	AV-151E-TW, AV-151E-TWB, AV-151E-TWC, AV-151E-TWD, AV-151E-TWE
Difference of model number	:	Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model AV-151E-TW
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 12V
Hardware Version	:	Main Board : AV-151E-TW_MB_0-0905-010_2-B365-151E-01-R4-0_20250905 TFT : AV-151E-TW_TFT_0-0812-004_2-B345-151E-04-R3-0_20250912 KEY : AV-151E-TW_KEY_0-0818-006_2-B325-151E-00-R3-0_20250912
Software Version	:	Model : TC250 MCU Version:RT_H_3001_20250923_01.AJQ.S OS/Build Version:5.15.180+-ab250930100603 Android Version:Android14
Antenna Type	:	FPC Antenna
Max Antenna Gain(dBi)	:	6.91

Radio Technology	:	IEEE 802.11a/n/ac
Operation frequency	:	U-NII-1: 5180 MHz to 5240 MHz U-NII-2A: 5260 MHz to 5320 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)

Channel information							
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE802.11ac (VHT40)		IEEE 802.11ac (VHT80)		/	
UNII-1							
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	/	/
36	5180	38	5190	42	5210	/	/
40	5200	46	5230	/	/	/	/
44	5220	/	/	/	/	/	/
48	5240	/	/	/	/	/	/
UNII-2A							
52	5260	54	5270	58	5290	/	/
56	5280	62	5310	/	/	/	/
60	5300	/	/	/	/	/	/
64	5320	/	/	/	/	/	/

UNII-3							
149	5745	151	5755	155	5775	/	/
153	5765	159	5795	/	/	/	/
157	5785	/	/	/	/	/	/
161	5805	/	/	/	/	/	/
165	5825	/	/	/	/	/	/
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
Connecting cable	N/A	N/A	length: 0.2m, unshielded
Camera cable	N/A	N/A	length: 1.5m, shielded

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: putty.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	42	/	6	LCH: CH36	5180
	42	/	6	MCH: CH40	5200
	42	/	6	HCH: CH48	5240

	42	/	6	LCH: CH52	5260
	42	/	6	MCH: CH56	5280
	42	/	6	HCH: CH64	5320
	42	/	6	LCH: CH149	5745
	42	/	6	MCH: CH157	5785
	42	/	6	HCH: CH165	5825
IEEE 802.11n HT20	45	/	MCS 0	LCH: CH36	5180
	45	/	MCS 0	MCH: CH40	5200
	45	/	MCS 0	HCH: CH48	5240
	45	/	MCS 0	LCH: CH52	5260
	45	/	MCS 0	MCH: CH56	5280
	45	/	MCS 0	HCH: CH64	5320
	45	/	MCS 0	LCH: CH149	5745
	45	/	MCS 0	MCH: CH157	5785
	45	/	MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	45	/	MCS 0	LCH: CH38	5190
	45	/	MCS 0	HCH: CH46	5230
	45	/	MCS 0	LCH: CH54	5270
	45	/	MCS 0	HCH: CH62	5310
	45	/	MCS 0	LCH: CH102	5510
	45	/	MCS 0	LCH: CH151	5755
	45	/	MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	45	/	MCS 0	LCH: CH36	5180
	45	/	MCS 0	MCH: CH40	5200
	45	/	MCS 0	HCH: CH48	5240
	45	/	MCS 0	LCH: CH52	5260
	45	/	MCS 0	MCH: CH56	5280
	45	/	MCS 0	HCH: CH64	5320
	45	/	MCS 0	LCH: CH149	5745
	45	/	MCS 0	MCH: CH157	5785
	45	/	MCS 0	HCH: CH165	5825
IEEE 802.11 ac VHT40	45	/	MCS 0	LCH: CH38	5190
	45	/	MCS 0	HCH: CH46	5230
	45	/	MCS 0	LCH: CH54	5270
	45	/	MCS 0	HCH: CH62	5310
	45	/	MCS 0	LCH: CH159	5755
	45	/	MCS 0	HCH: CH36	5795
IEEE 802.11ac	42	/	MCS 0	CH42	5210

VHT80	42	/	MCS 0	CH58	5290
	42	/	MCS 0	CH155	5775
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 to106 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

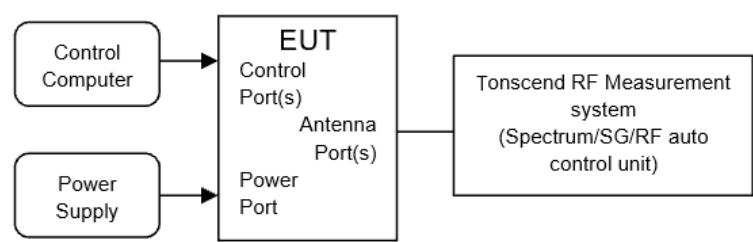
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	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	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	120259	2026/03/28
MXG Vector Signal Generator	KEYSIGHT	N5182B	MY59100192	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY19060405	2026/03/28
RF Control Unit	Tonscend	JS0806-2	158060010	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
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.

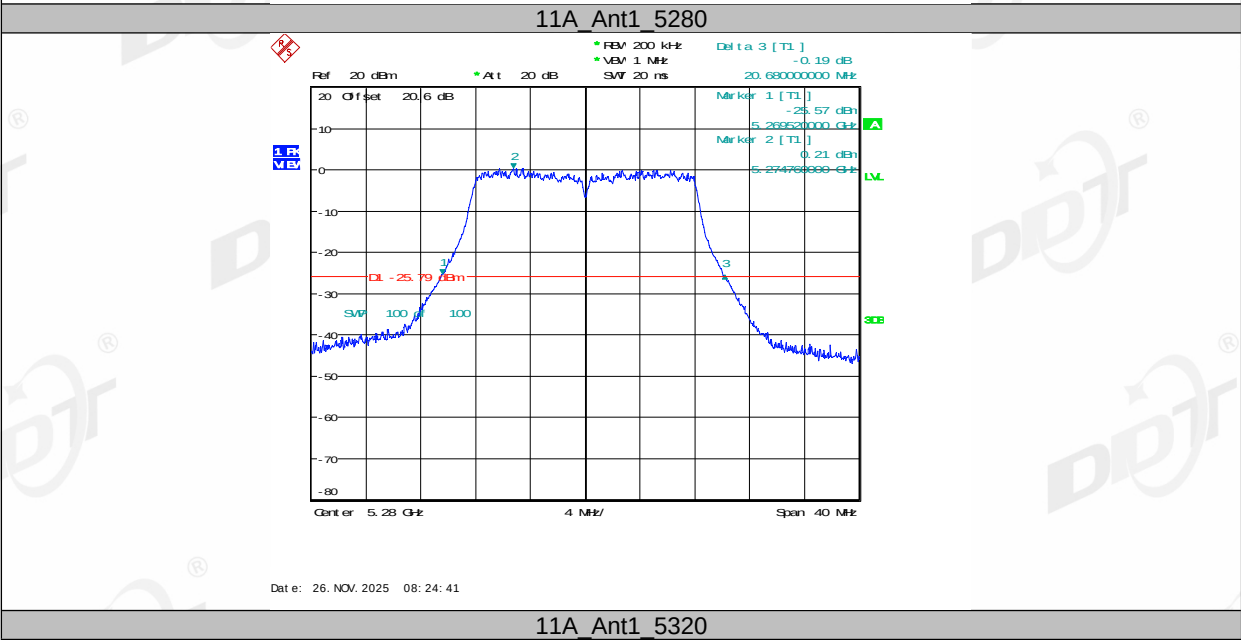
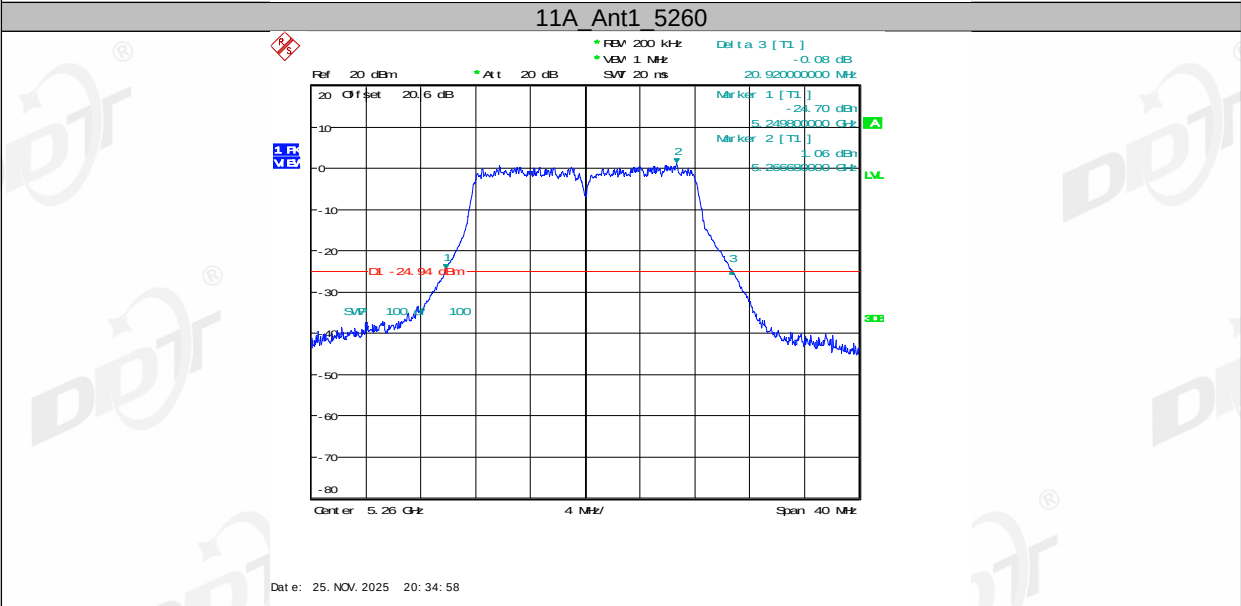
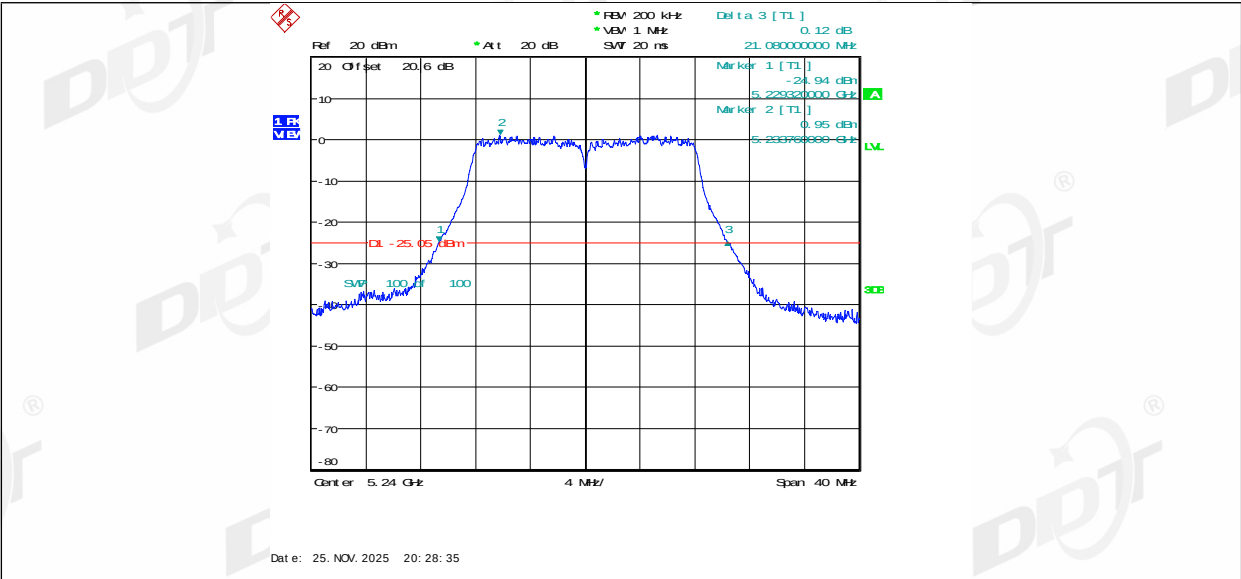
4.4. Test result

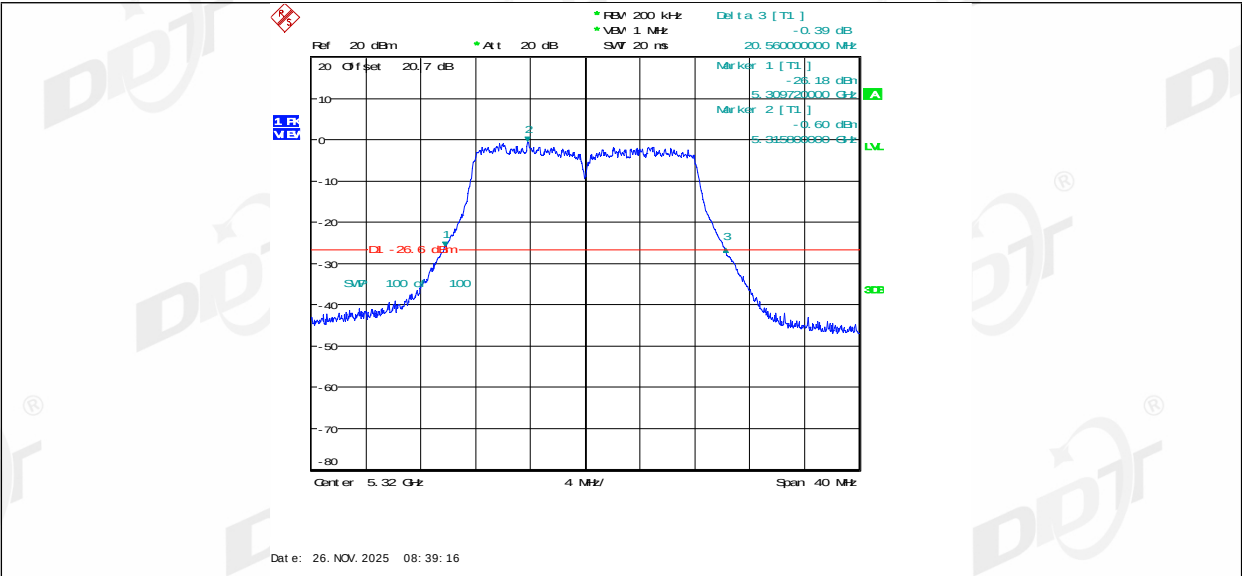
Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.2℃,47.1%RH	Test Date:	2025.10.31-2025.12.06
Test Power Supply:	DC 12V	Sample Number:	S25092809-001

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.84	5169.64	5190.48	---	---
		5200	20.56	5189.76	5210.32	---	---
		5240	21.08	5229.32	5250.40	---	---
		5260	20.92	5249.80	5270.72	---	---
		5280	20.68	5269.52	5290.20	---	---
		5320	20.56	5309.72	5330.28	---	---
		5745	20.64	5734.72	5755.36	---	---
		5785	20.84	5774.48	5795.32	---	---
		5825	20.68	5814.68	5835.36	---	---
11N20SISO	Ant1	5180	21.28	5169.44	5190.72	---	---
		5200	21.36	5189.28	5210.64	---	---
		5240	21.20	5229.52	5250.72	---	---
		5260	21.00	5249.48	5270.48	---	---
		5280	21.32	5269.24	5290.56	---	---
		5320	21.04	5309.48	5330.52	---	---
		5745	21.16	5734.52	5755.68	---	---
		5785	21.20	5774.24	5795.44	---	---
		5825	20.92	5814.56	5835.48	---	---
11N40SISO	Ant1	5190	42.64	5168.88	5211.52	---	---
		5230	42.08	5209.12	5251.20	---	---
		5270	41.76	5249.20	5290.96	---	---
		5310	42.24	5288.48	5330.72	---	---
		5755	42.40	5733.72	5776.12	---	---
		5795	41.60	5774.12	5815.72	---	---
11AC20SISO	Ant1	5180	21.08	5169.44	5190.52	---	---
		5200	21.08	5189.48	5210.56	---	---
		5240	21.28	5229.32	5250.60	---	---
		5260	21.00	5249.60	5270.60	---	---
		5280	21.12	5269.48	5290.60	---	---
		5320	21.12	5309.36	5330.48	---	---
		5745	21.24	5734.40	5755.64	---	---
		5785	21.24	5774.40	5795.64	---	---
		5825	21.64	5813.92	5835.56	---	---
11AC40SISO	Ant1	5190	41.76	5169.20	5210.96	---	---
		5230	42.32	5208.64	5250.96	---	---
		5270	41.60	5249.20	5290.80	---	---
		5310	42.00	5288.96	5330.96	---	---
		5755	42.32	5733.72	5776.04	---	---
		5795	41.44	5774.12	5815.56	---	---
11AC80SISO	Ant1	5210	81.60	5169.36	5250.96	---	---
		5290	81.12	5249.20	5330.32	---	---
		5775	81.76	5734.20	5815.96	---	---

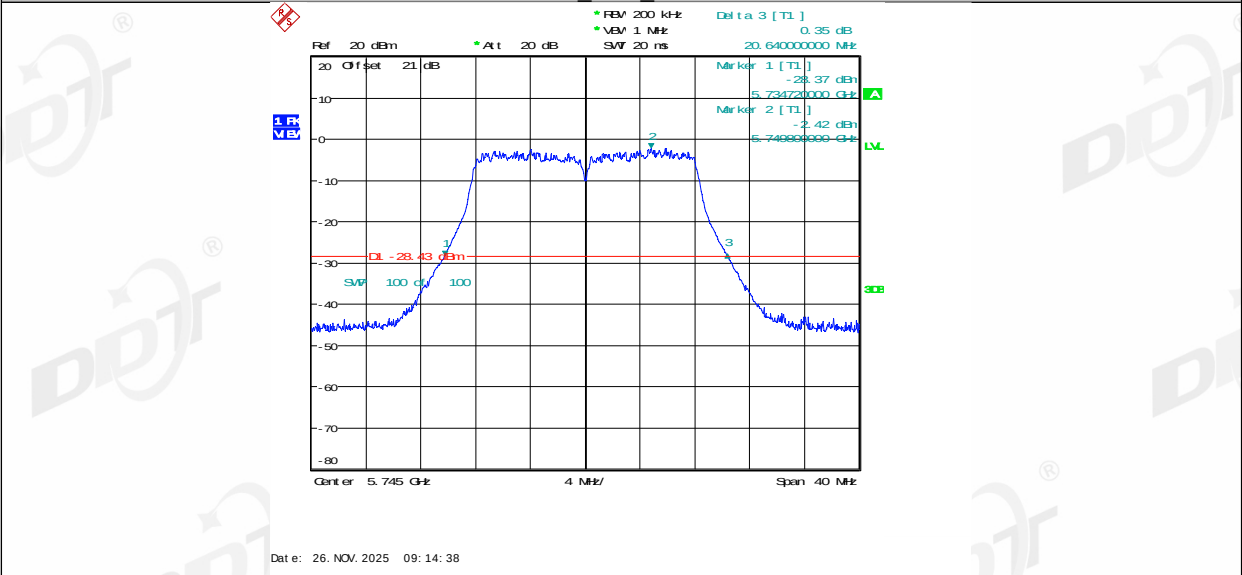
4.5. Test graphs



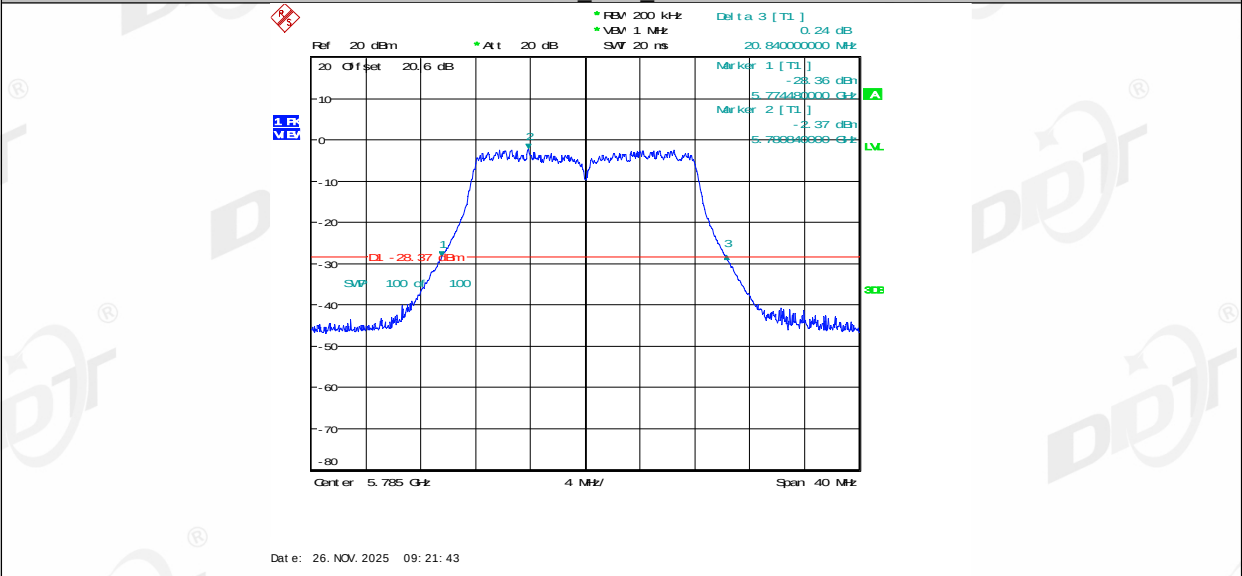




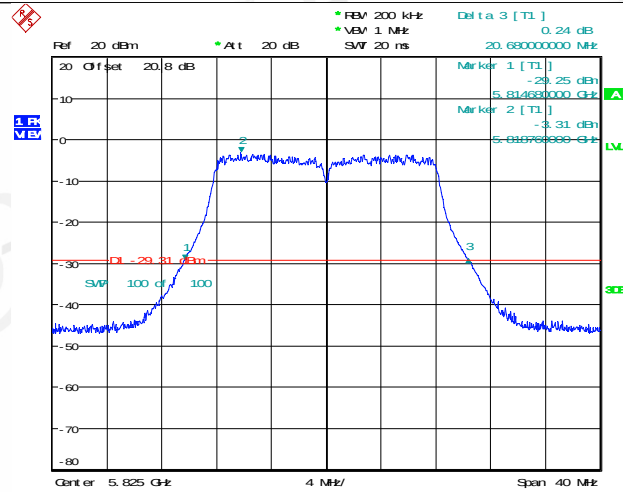
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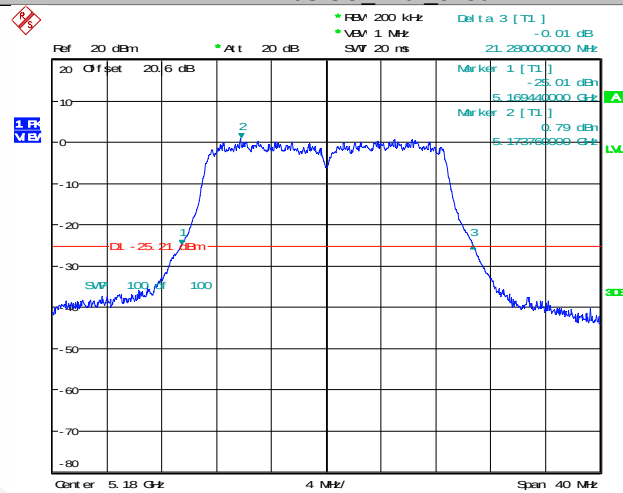


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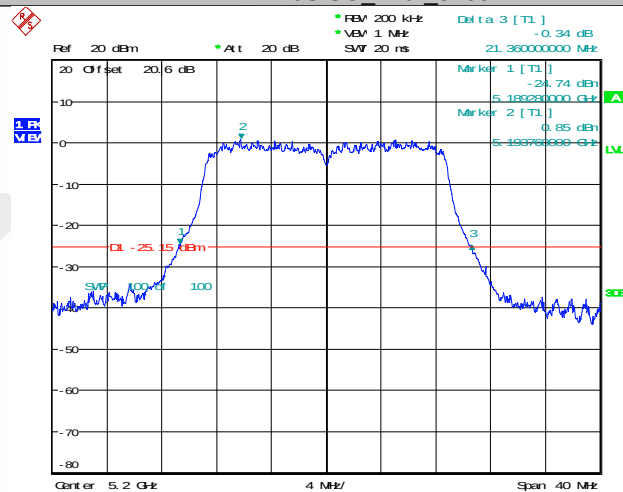
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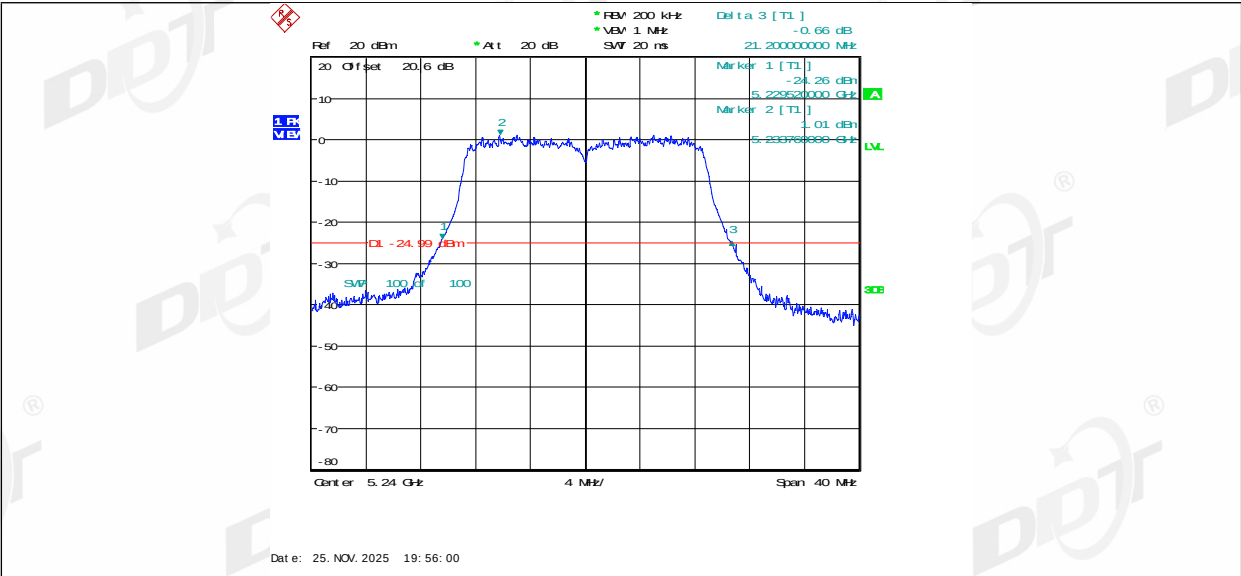
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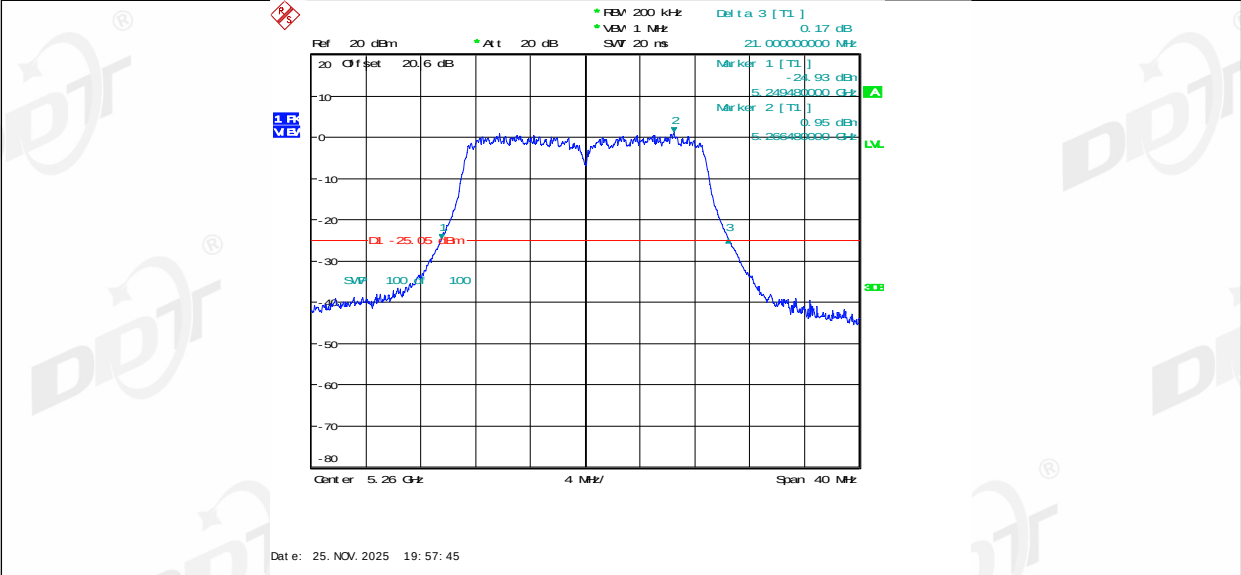


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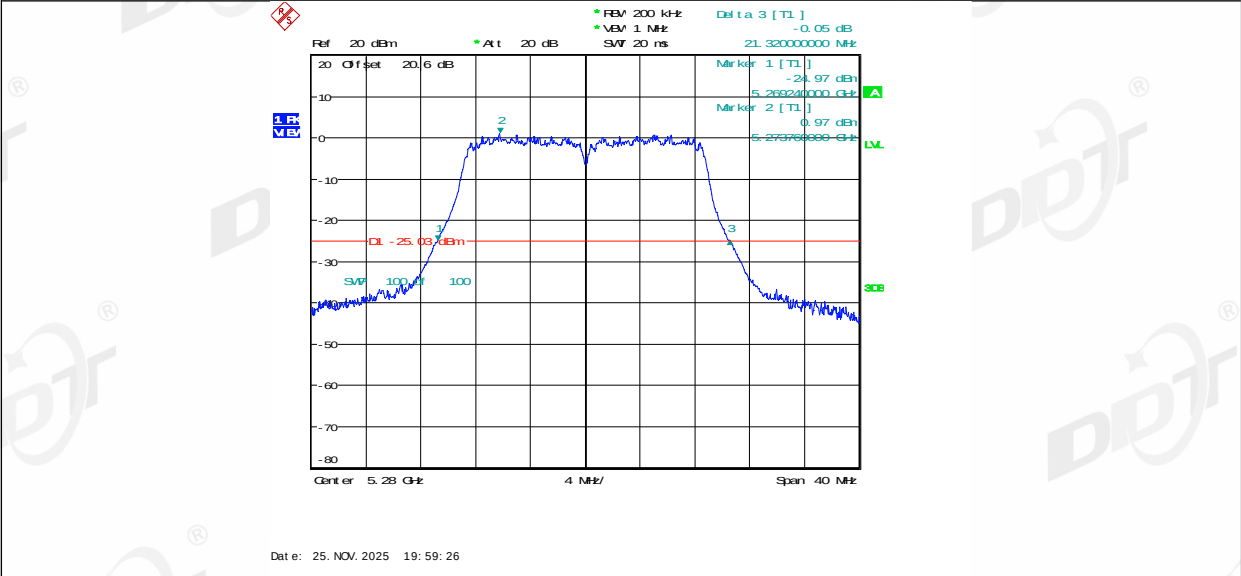
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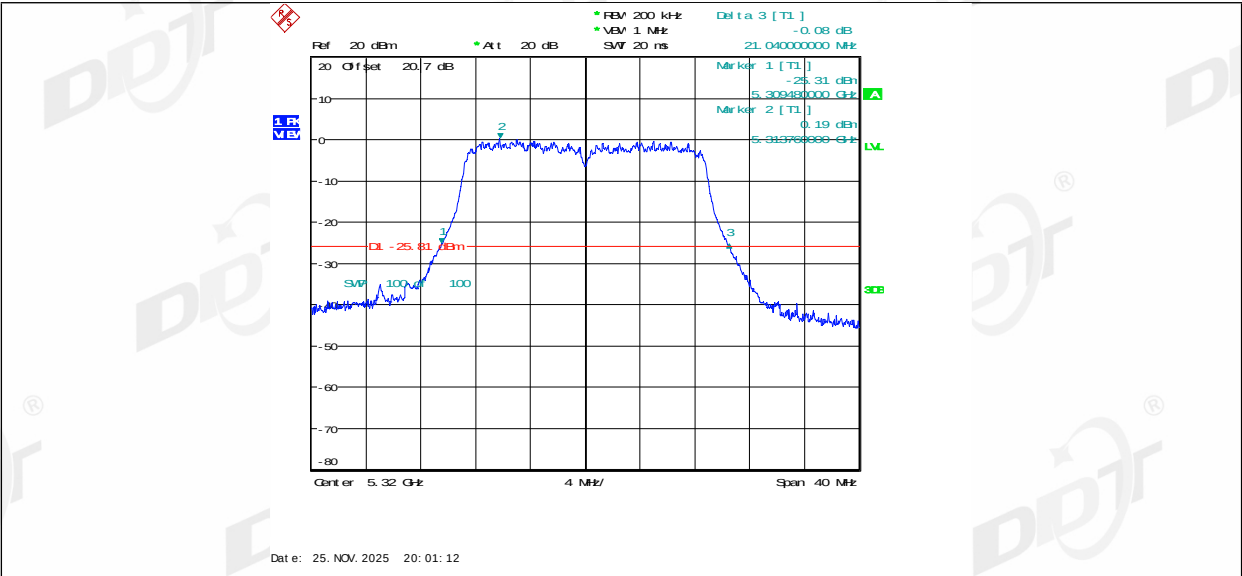
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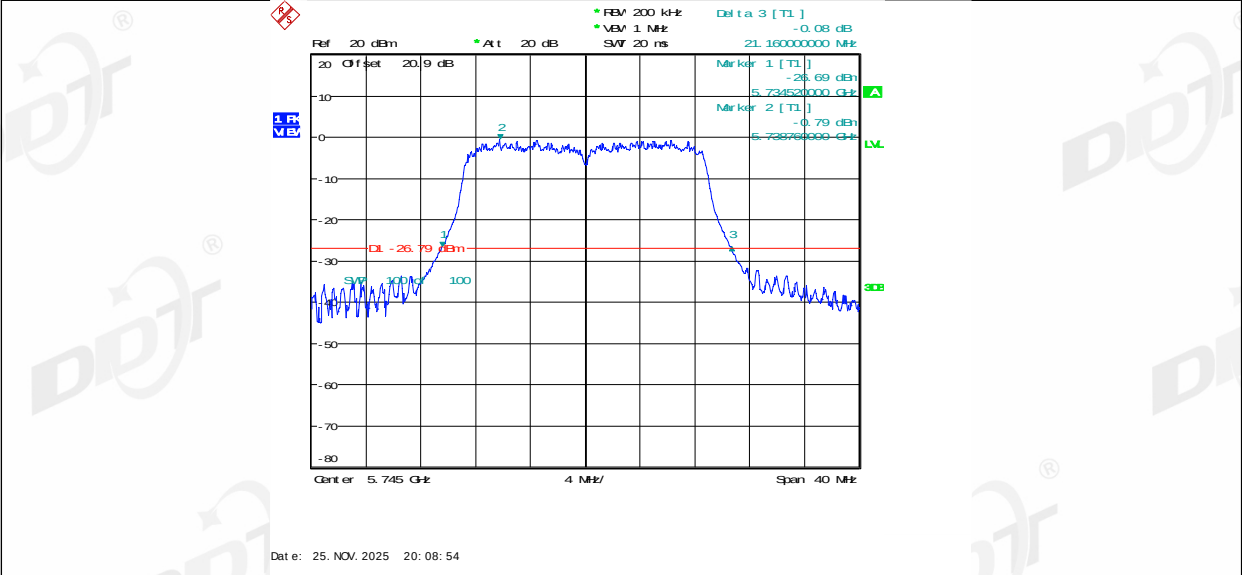
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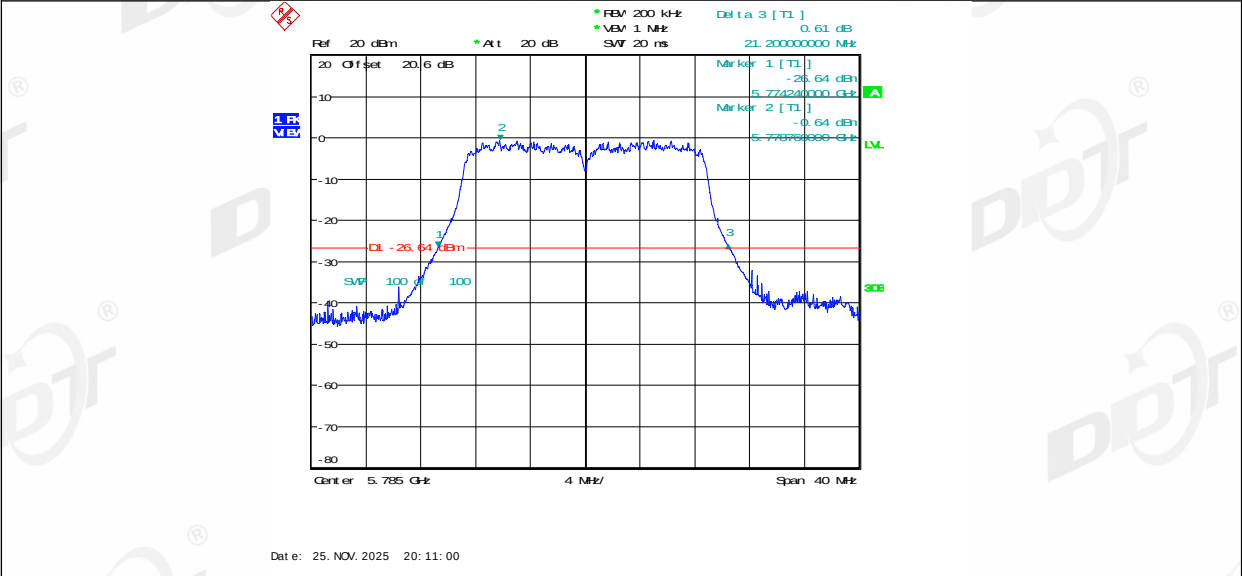
11N20SISO_Ant1_5320



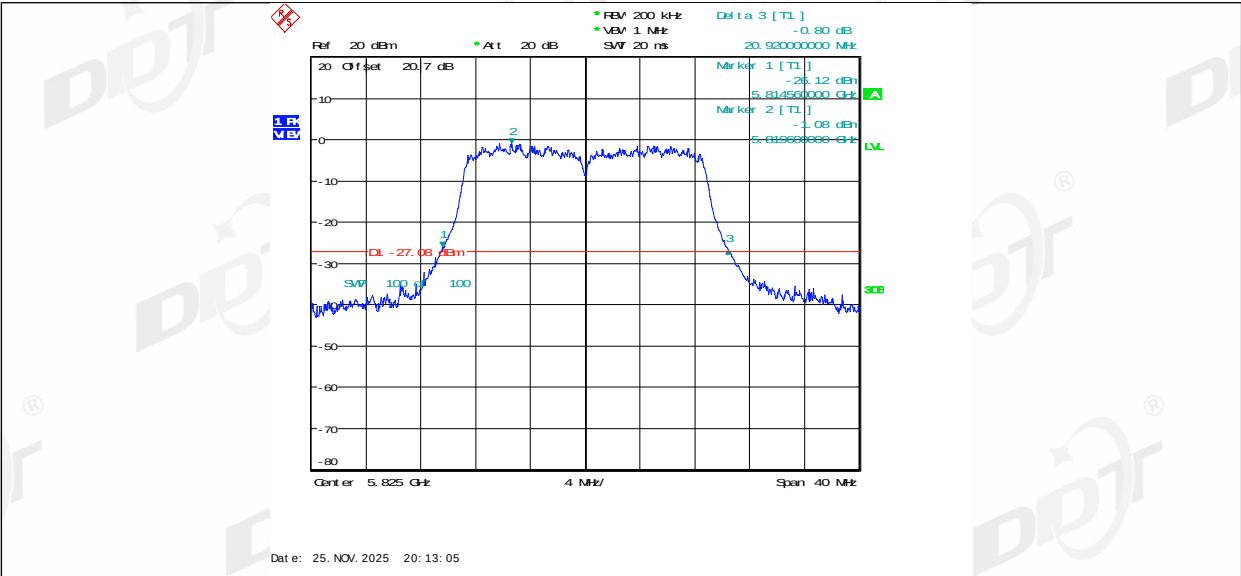
11N20SISO Ant1 5745



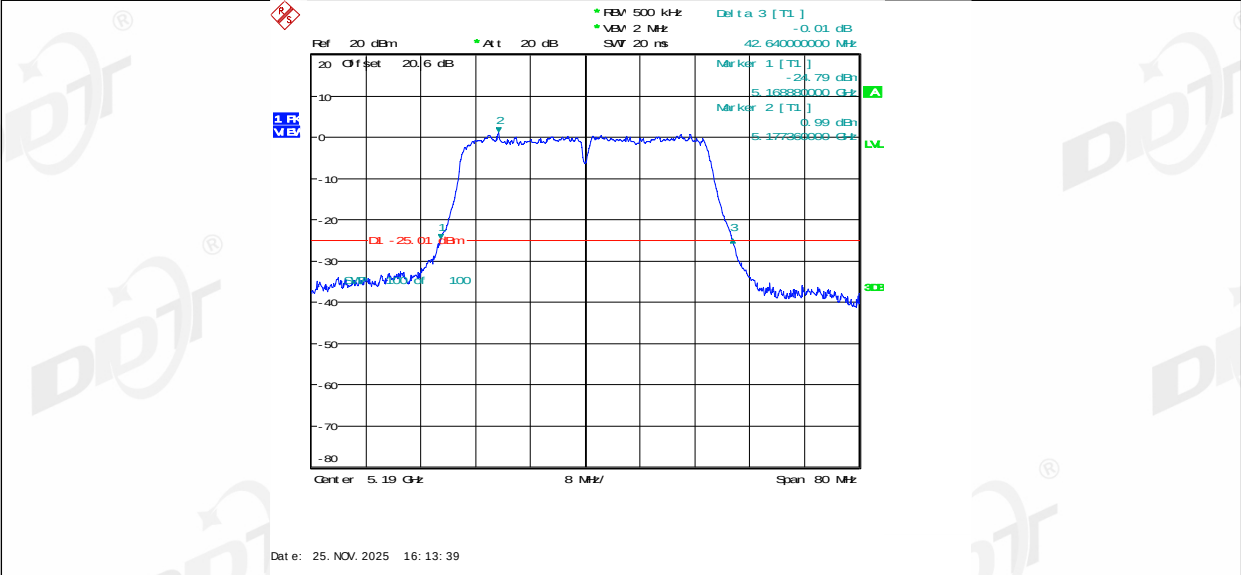
11N20SISO Ant1 5785



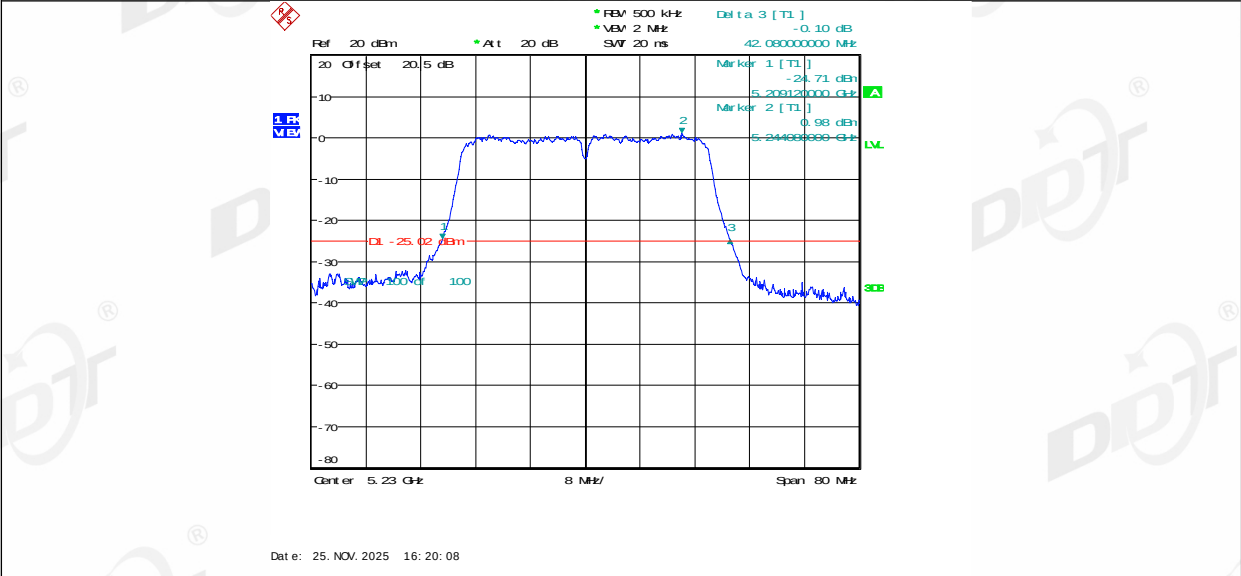
11N20SISO Ant1 5825



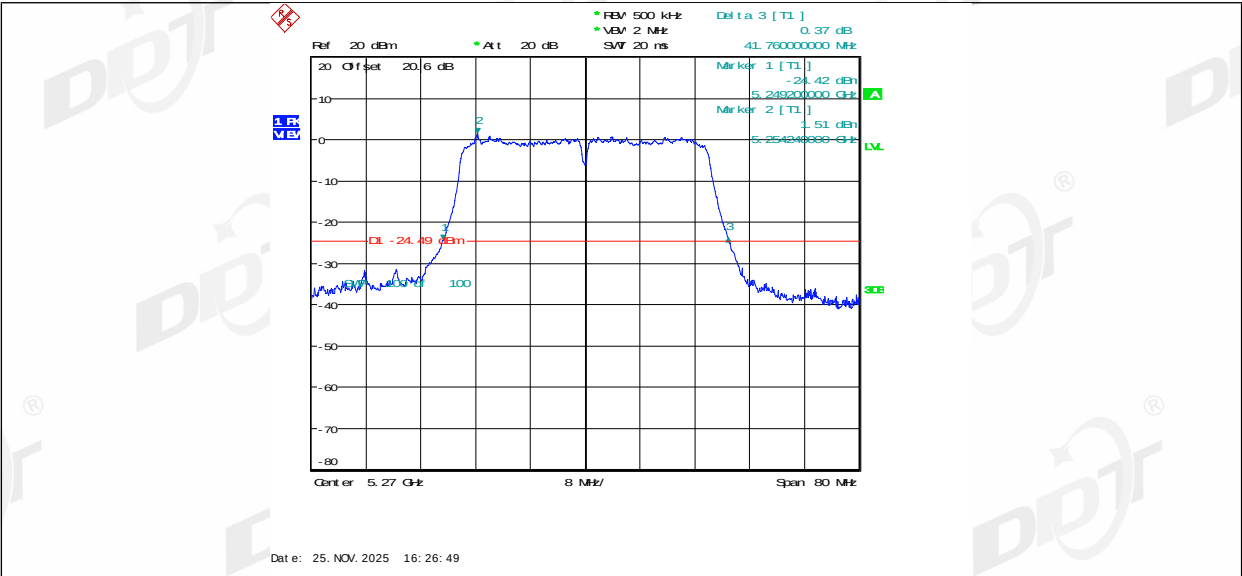
11N40SISO_Ant1_5190



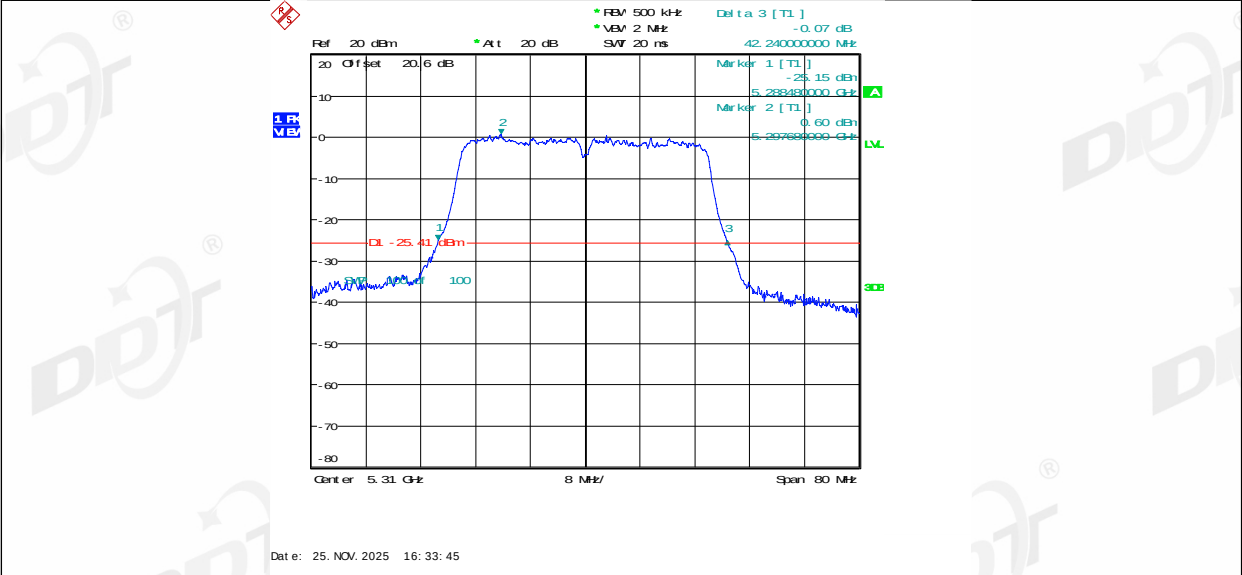
11N40SISO_Ant1_5230



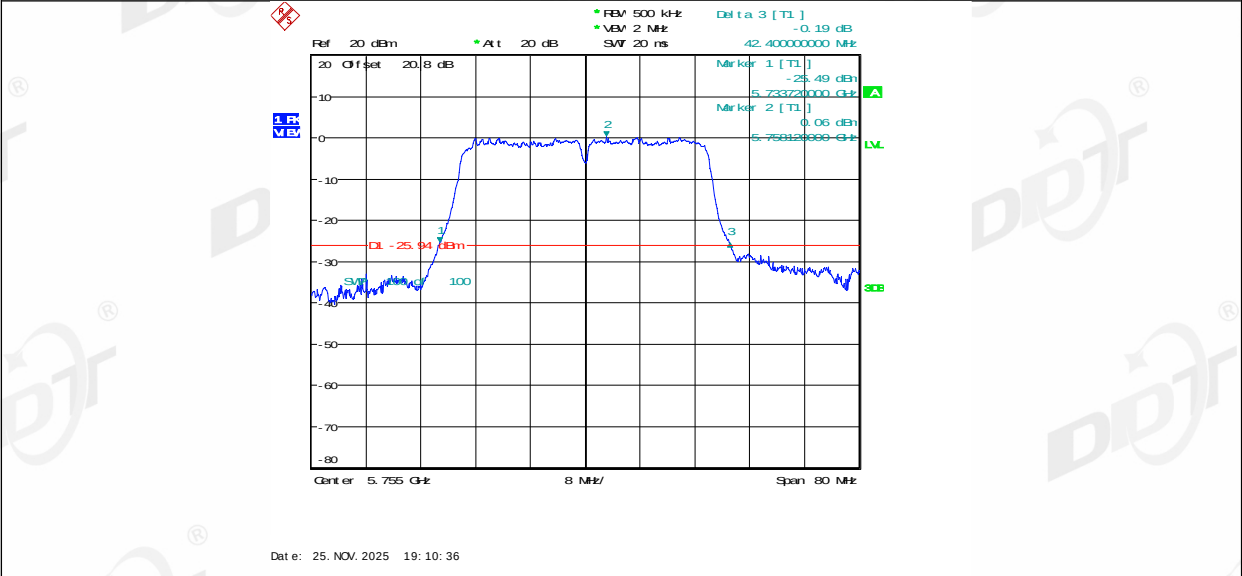
11N40SISO_Ant1_5270



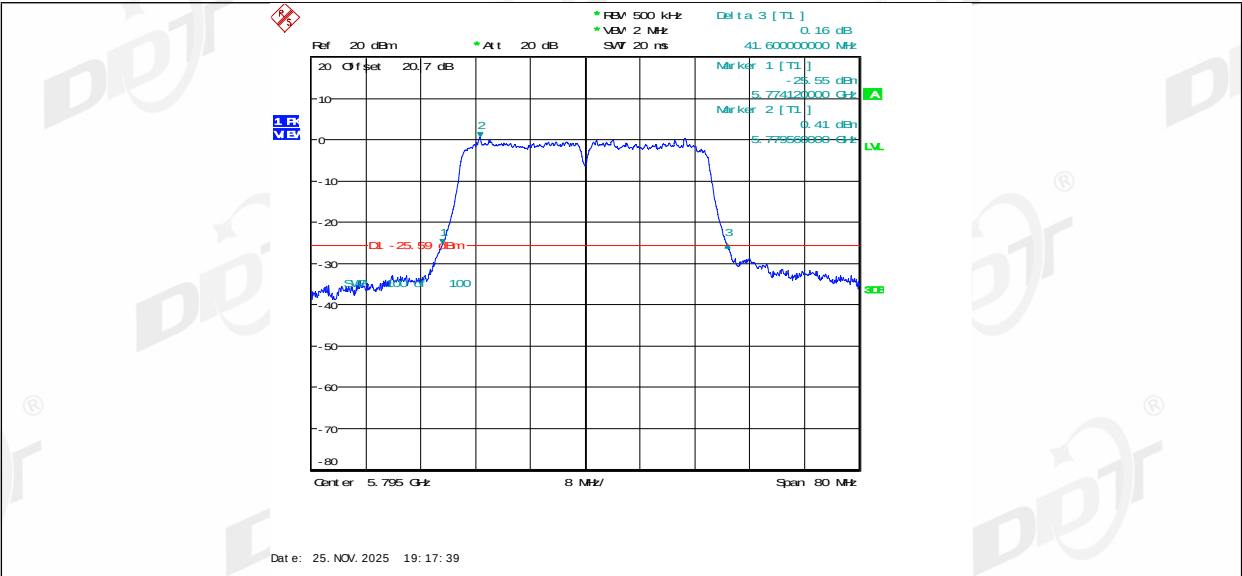
11N40SISO_Ant1_5310



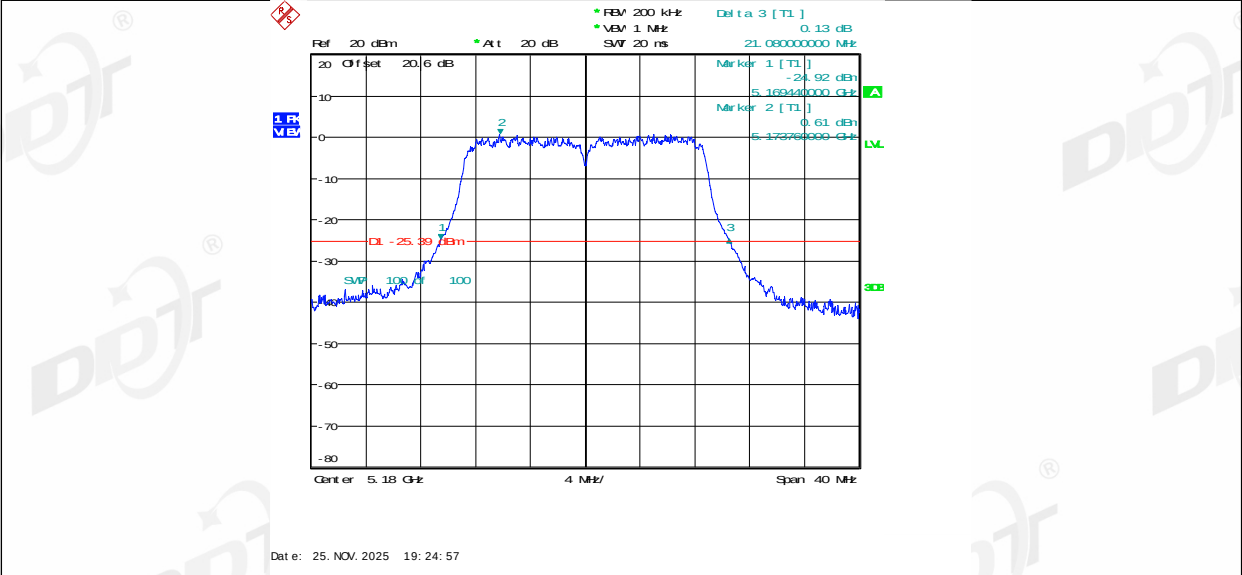
11N40SISO_Ant1_5755



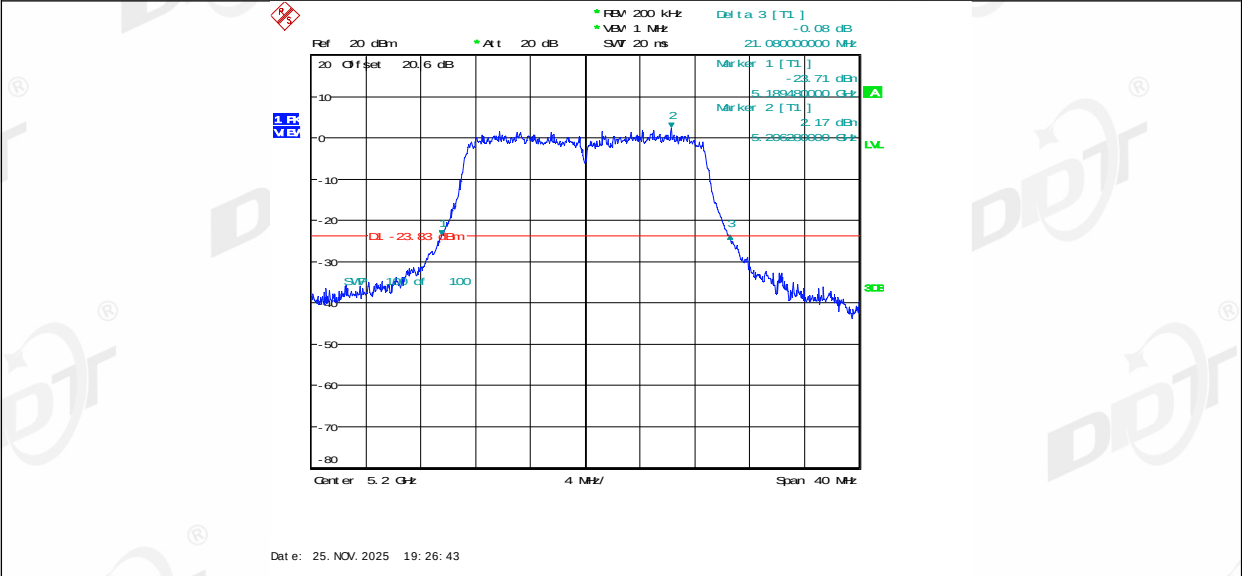
11N40SISO_Ant1_5795



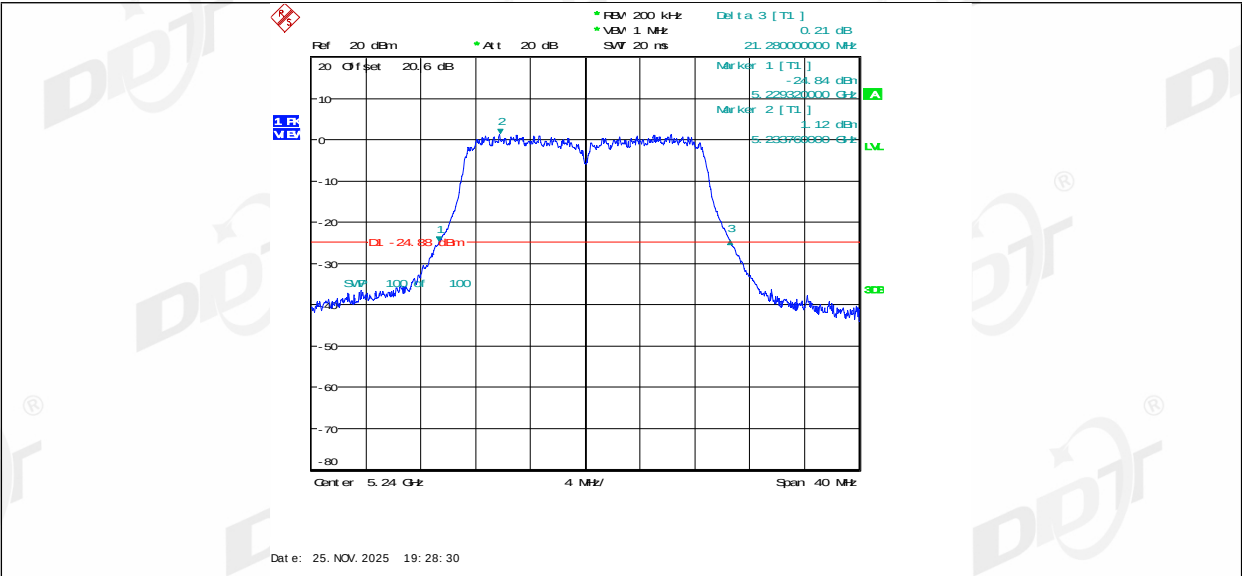
11AC20SISO Ant1 5180



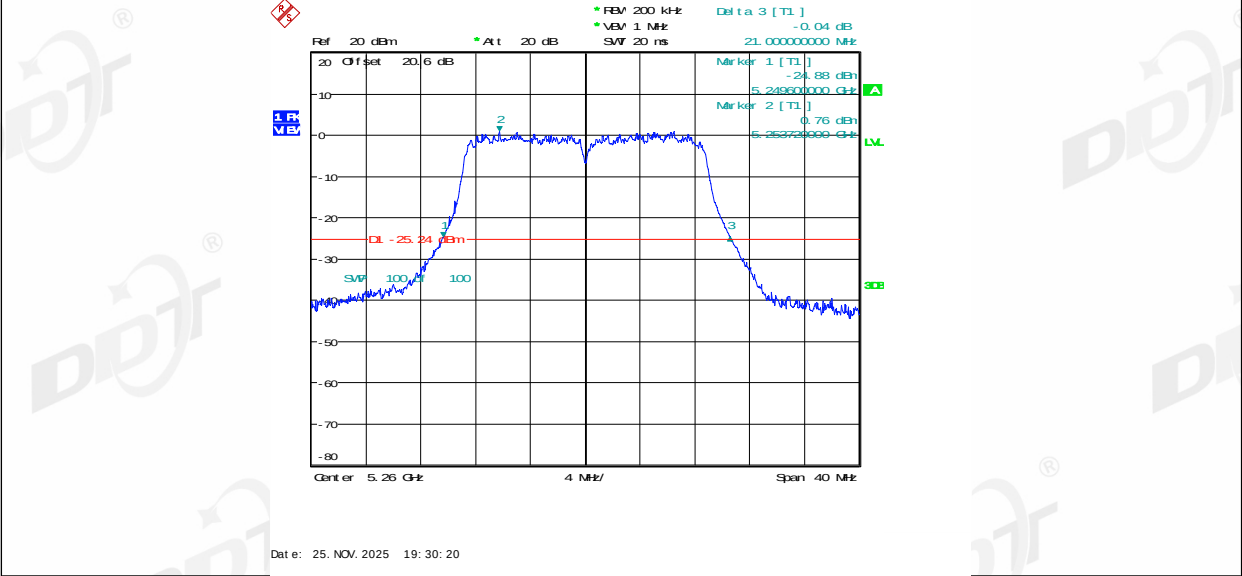
11AC20SISO Ant1 5200



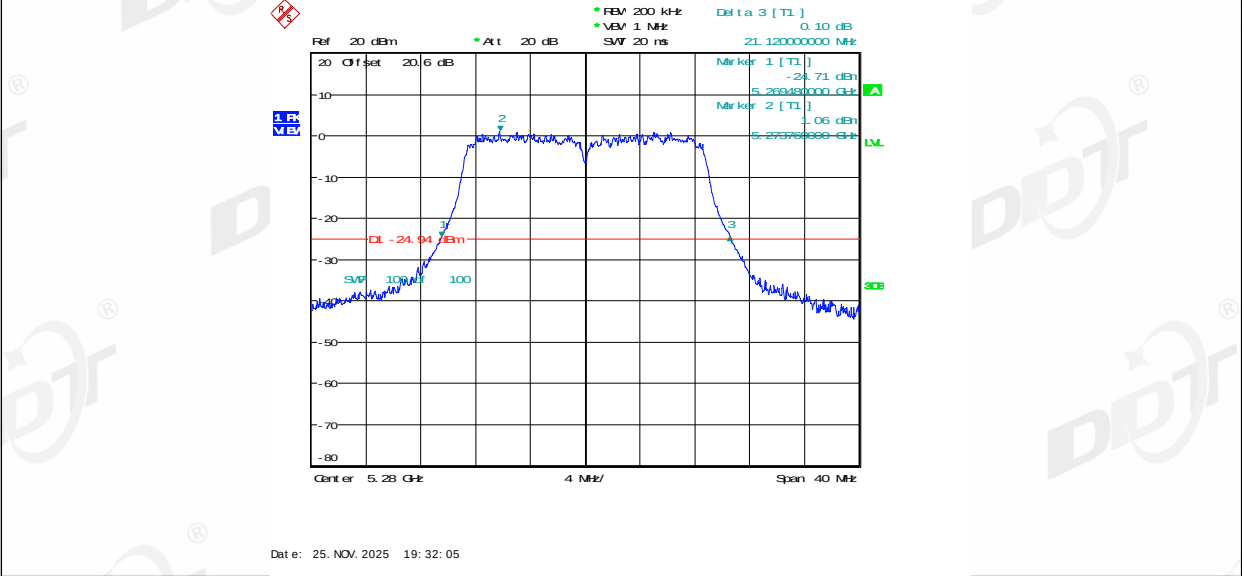
11AC20SISO Ant1 5240



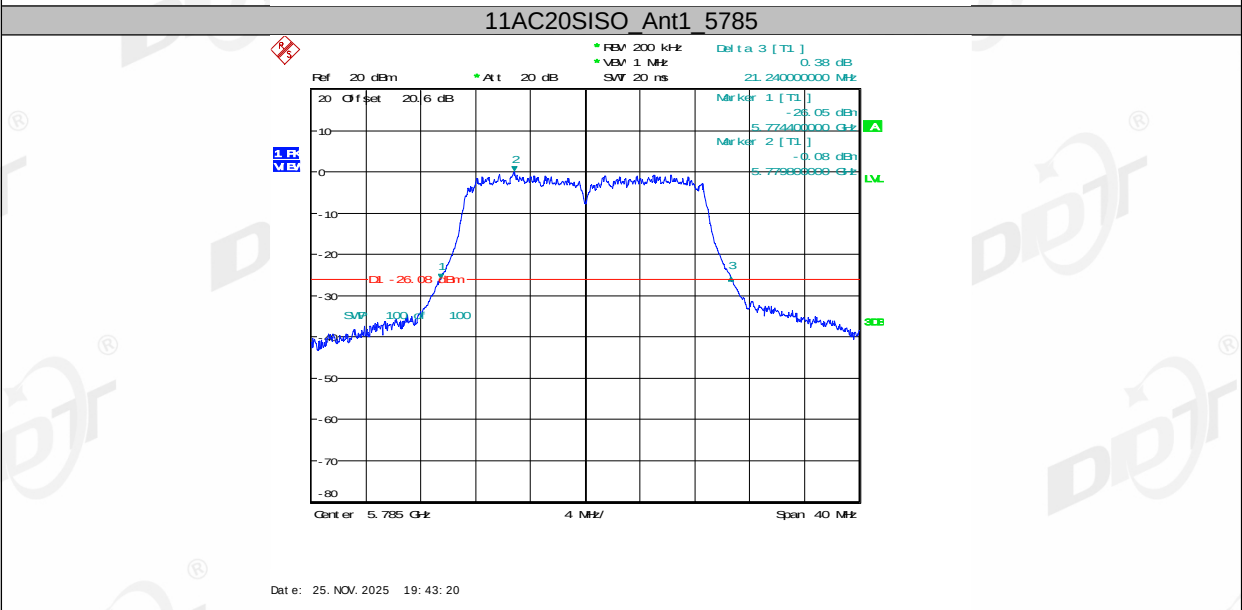
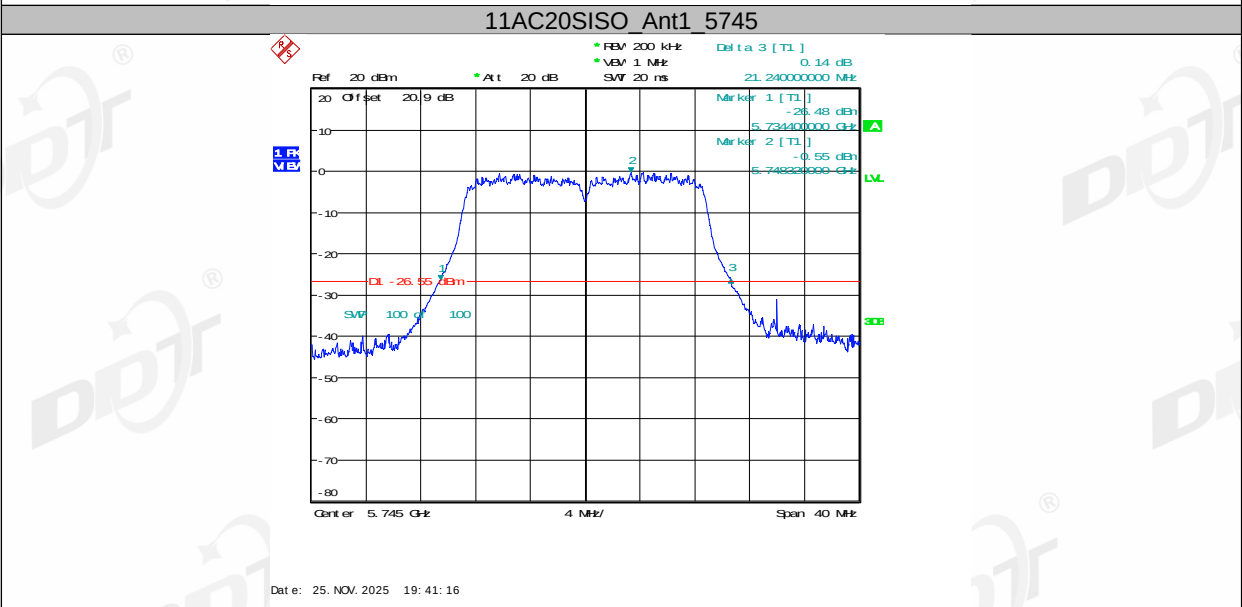
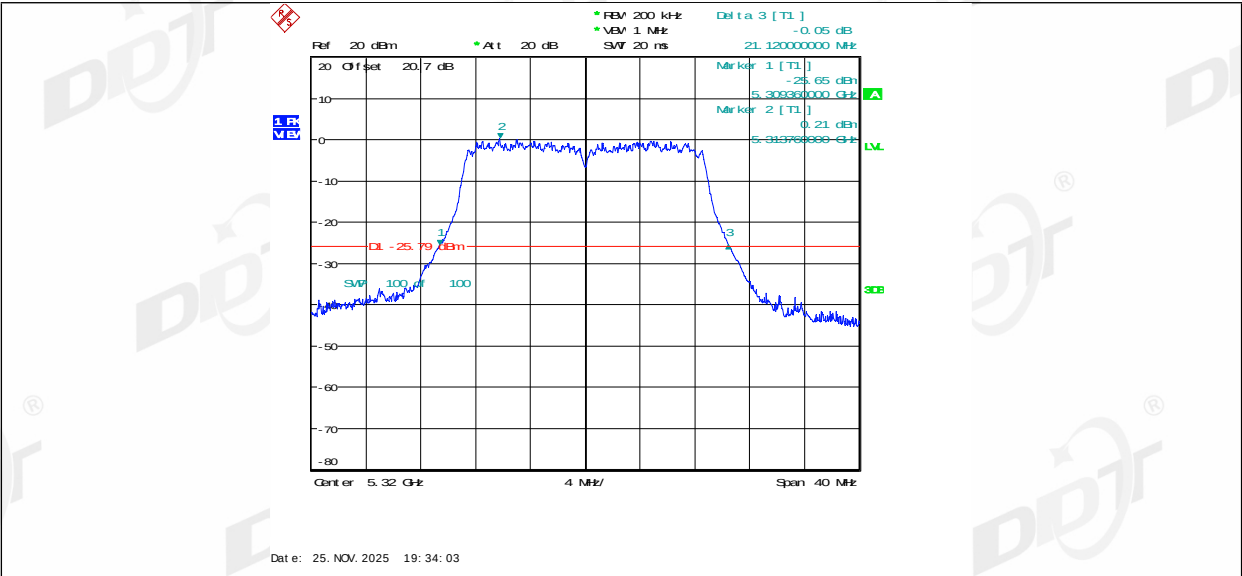
11AC20SISO_Ant1_5260

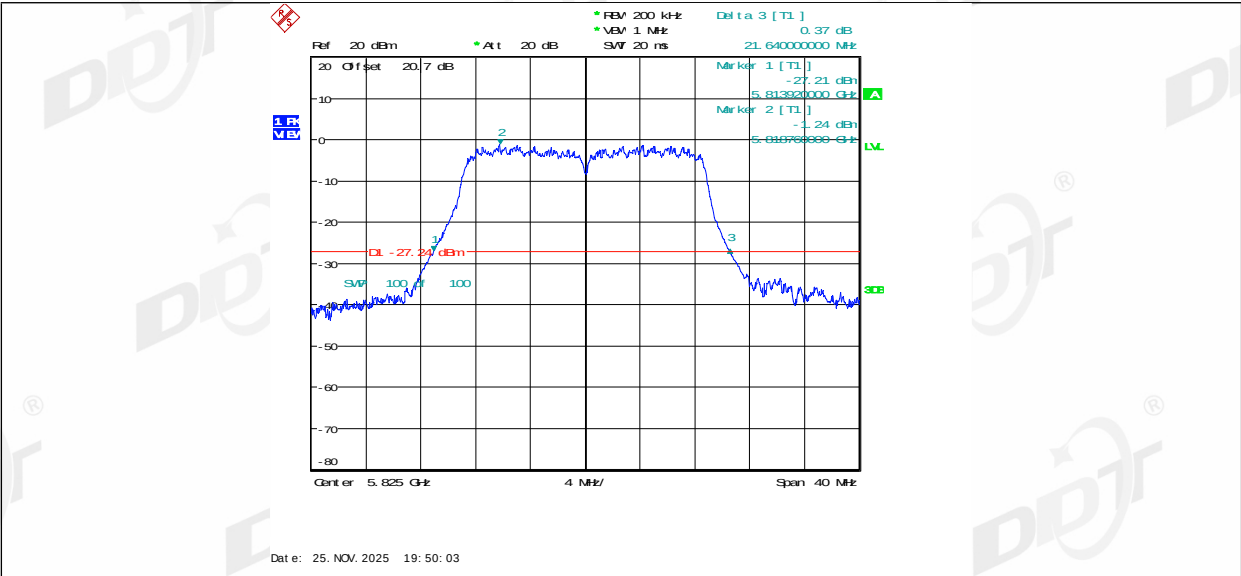


11AC20SISO_Ant1_5280

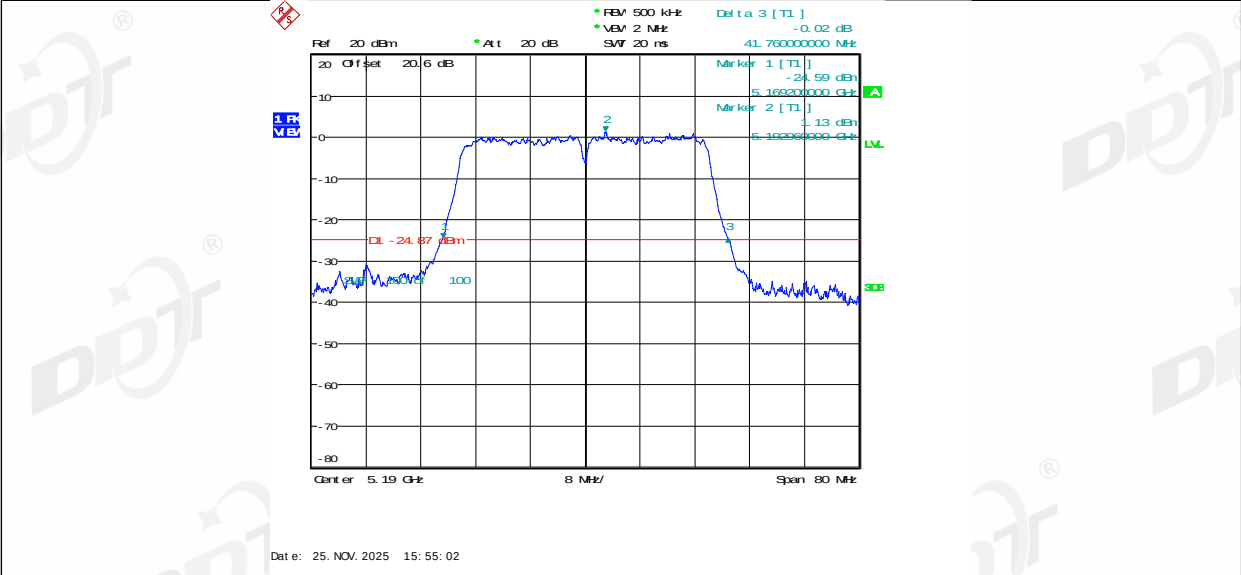


11AC20SISO_Ant1_5320

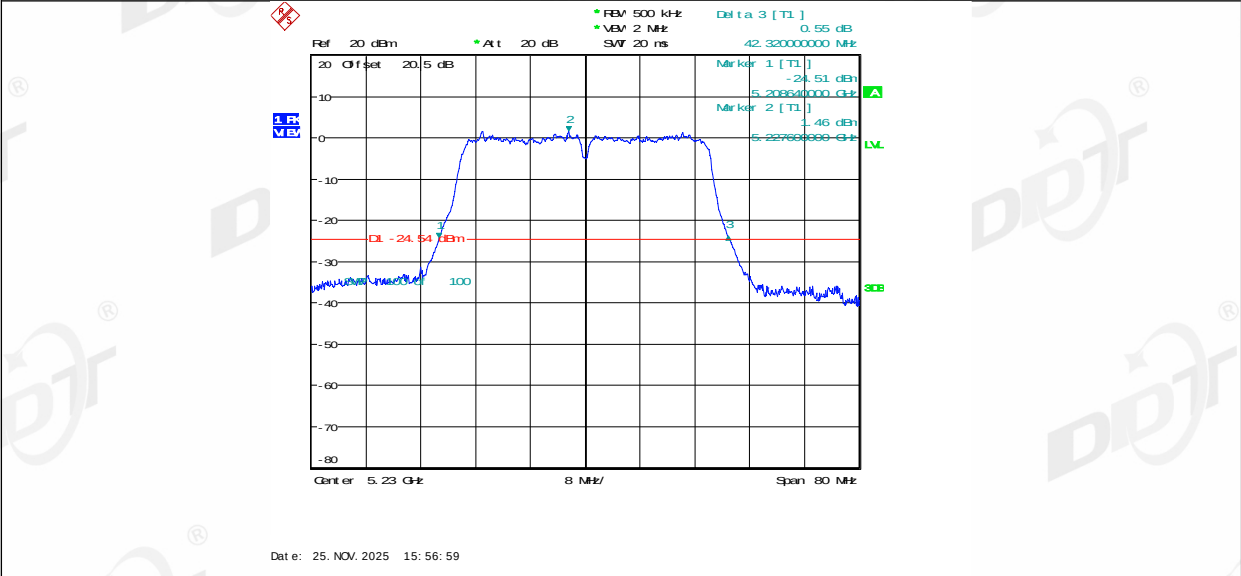




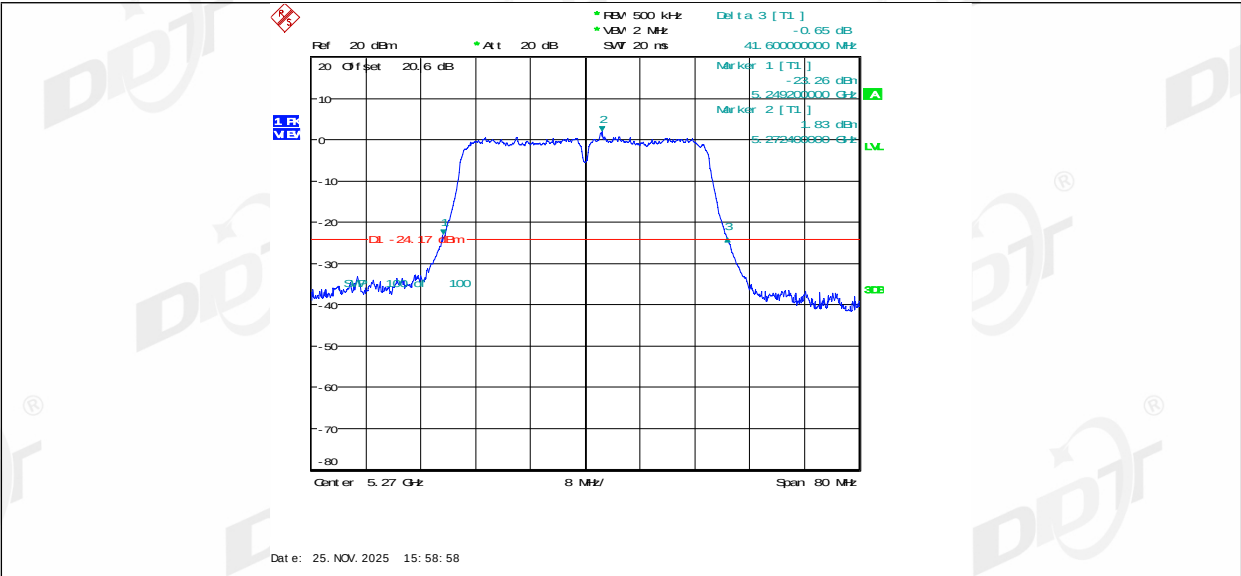
11AC40SISO Ant1 5190



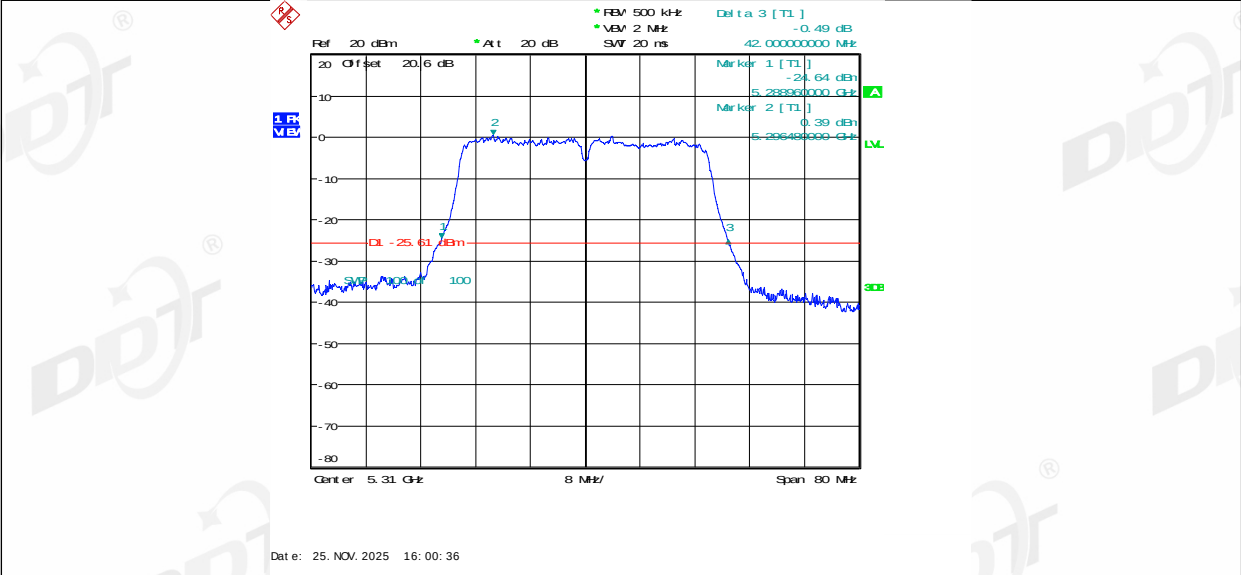
11AC40SISO Ant1 5230



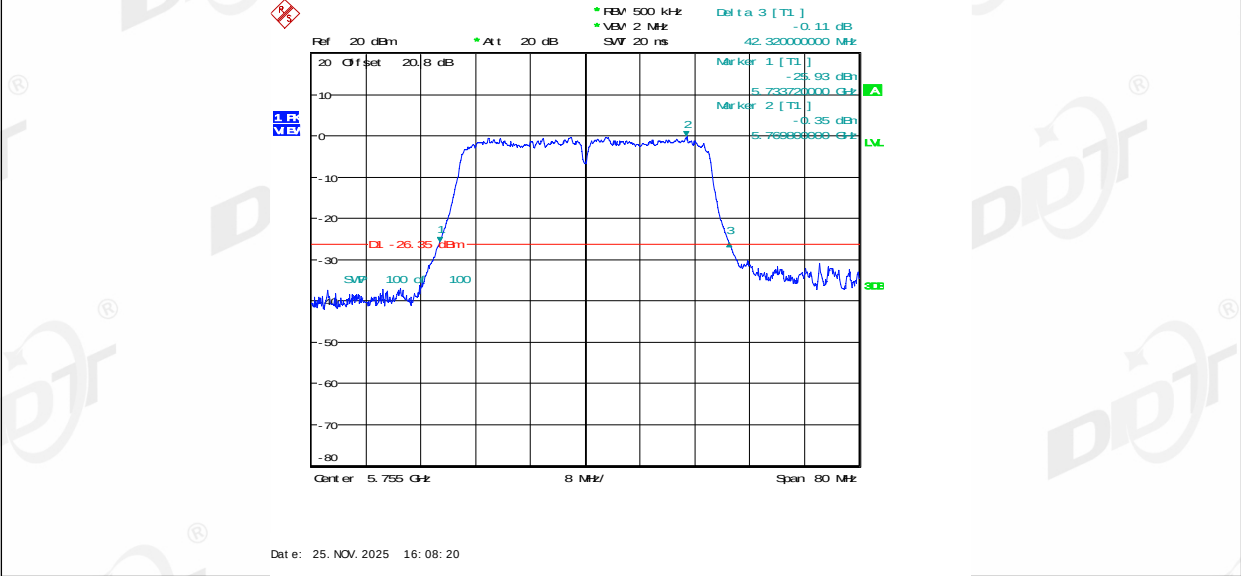
11AC40SISO Ant1 5270



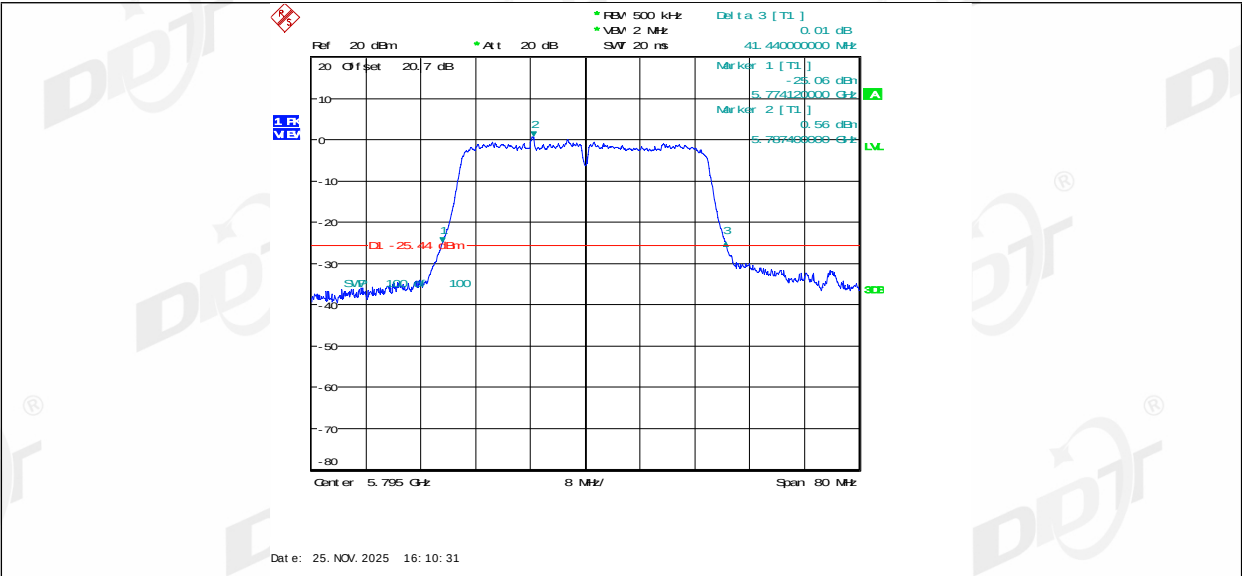
11AC40SISO Ant1 5310



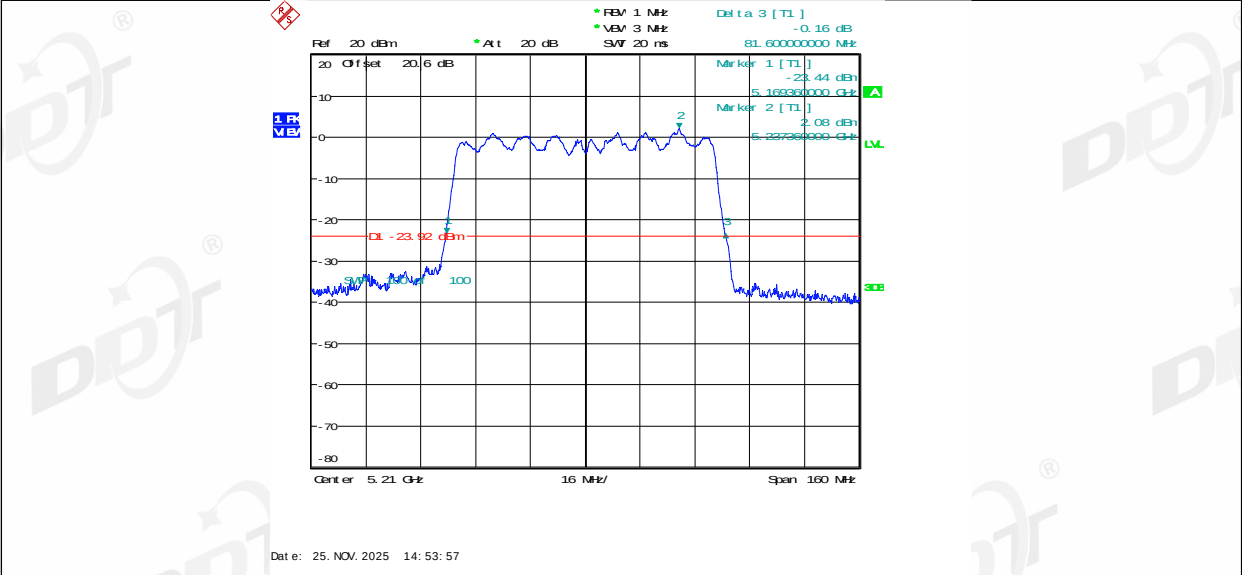
11AC40SISO Ant1 5755



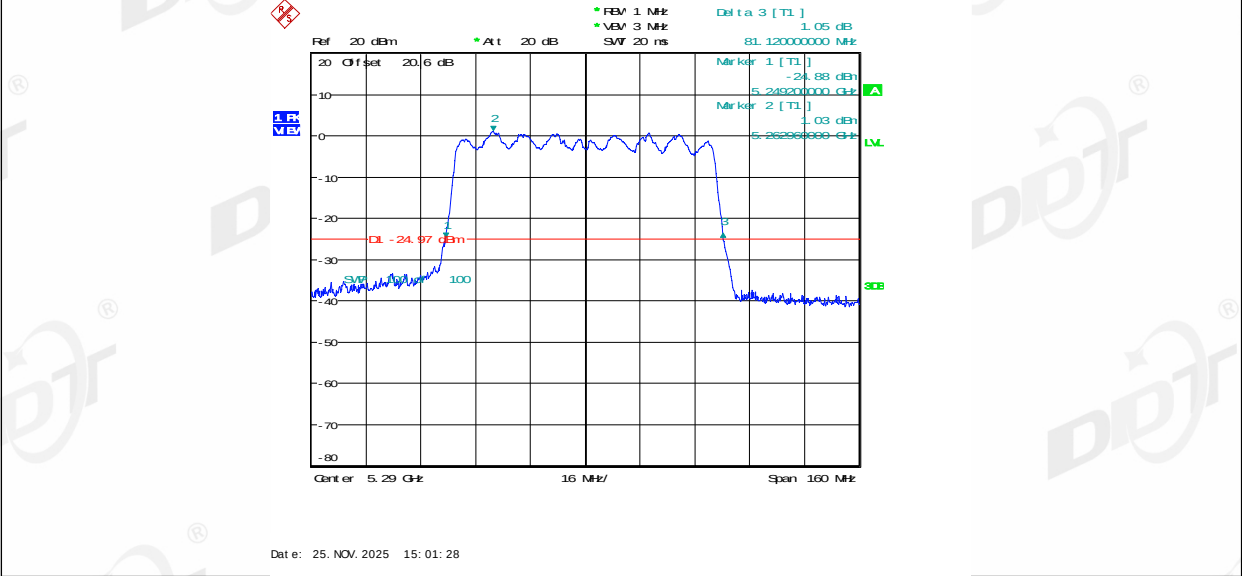
11AC40SISO Ant1 5795



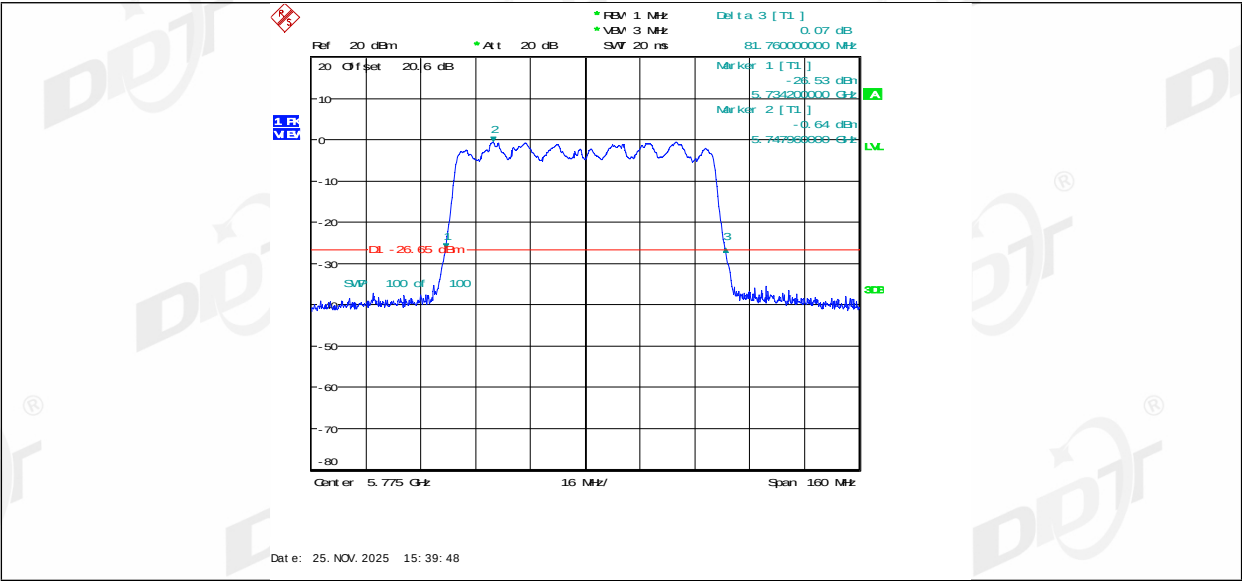
11AC80SISO Ant1 5210



11AC80SISO Ant1 5290

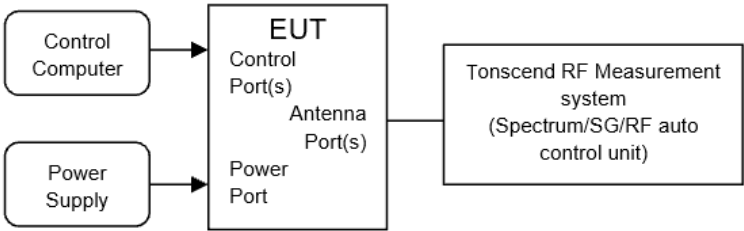


11AC80SISO Ant1 5775



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.

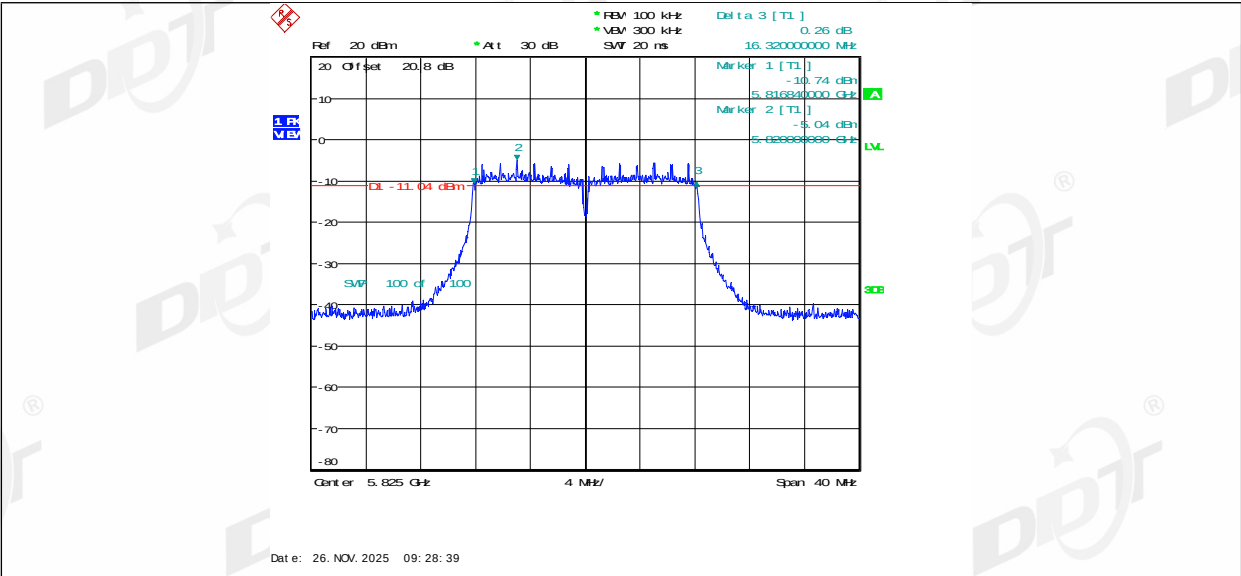
5.4. Test result B4

Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.2℃,47.1%RH	Test Date:	2025.10.31-2025.12.06
Test Power Supply:	DC 12V	Sample Number:	S25092809-001

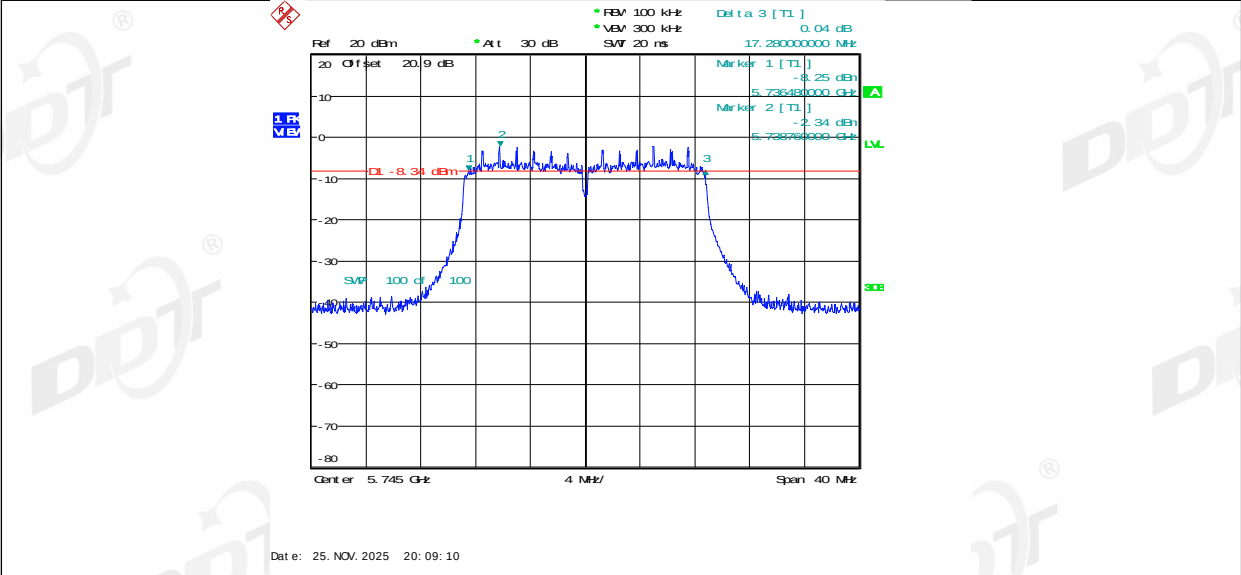
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.84	5753.16	0.5	PASS
		5785	16.32	5776.84	5793.16	0.5	PASS
		5825	16.32	5816.84	5833.16	0.5	PASS
11N20SISO	Ant1	5745	17.28	5736.48	5753.76	0.5	PASS
		5785	16.96	5776.60	5793.56	0.5	PASS
		5825	16.92	5816.48	5833.40	0.5	PASS
11N40SISO	Ant1	5755	35.36	5737.40	5772.76	0.5	PASS
		5795	35.52	5777.08	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	17.04	5736.48	5753.52	0.5	PASS
		5785	16.92	5776.60	5793.52	0.5	PASS
		5825	16.88	5816.60	5833.48	0.5	PASS
11AC40SISO	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS
		5795	35.52	5777.24	5812.76	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

5.5. Test graphs B4

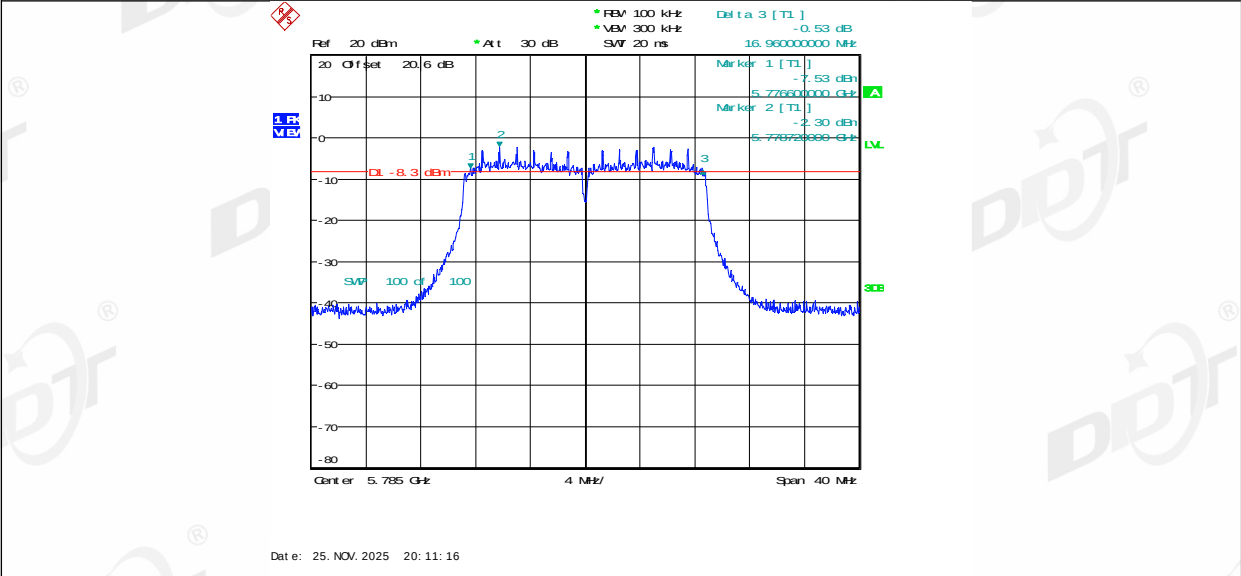




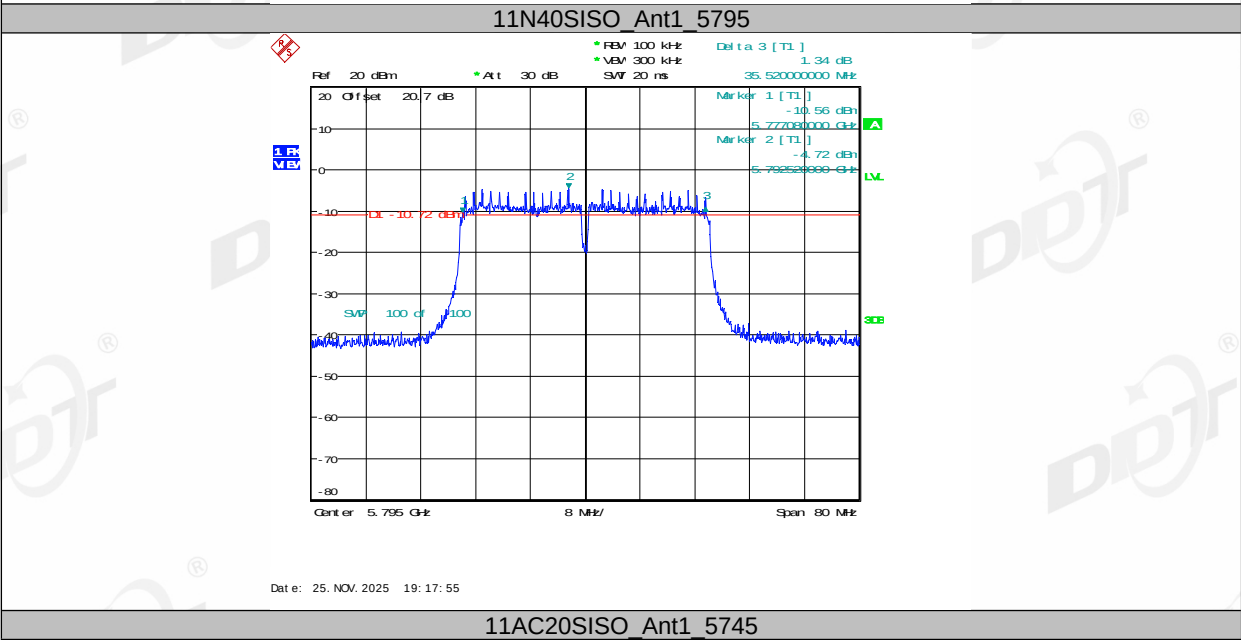
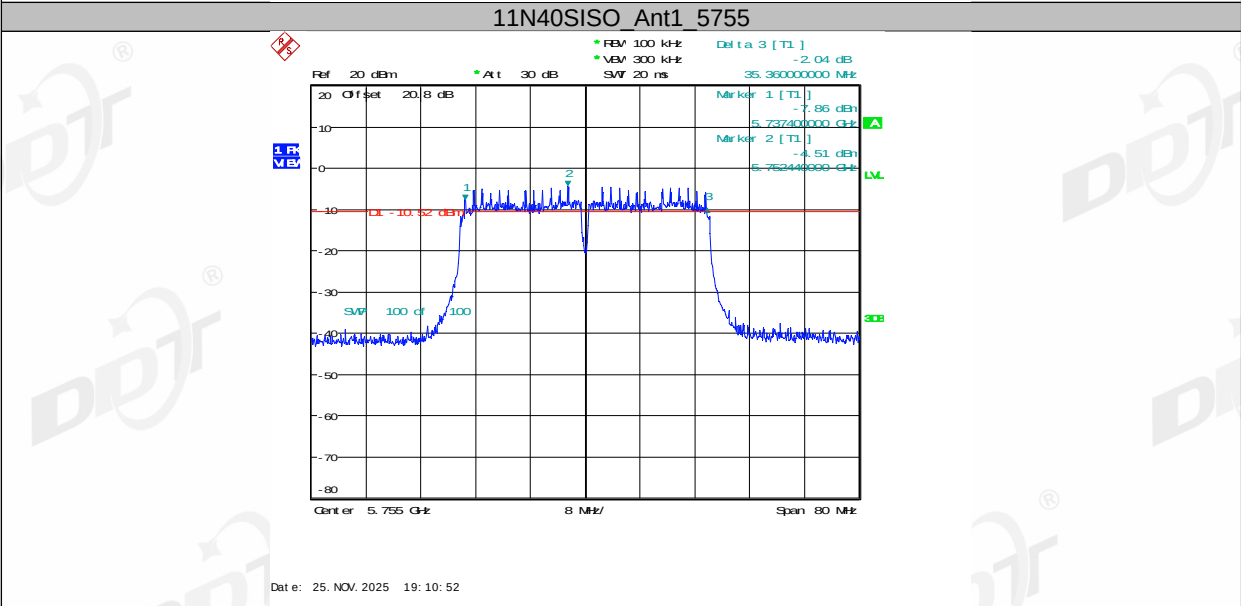
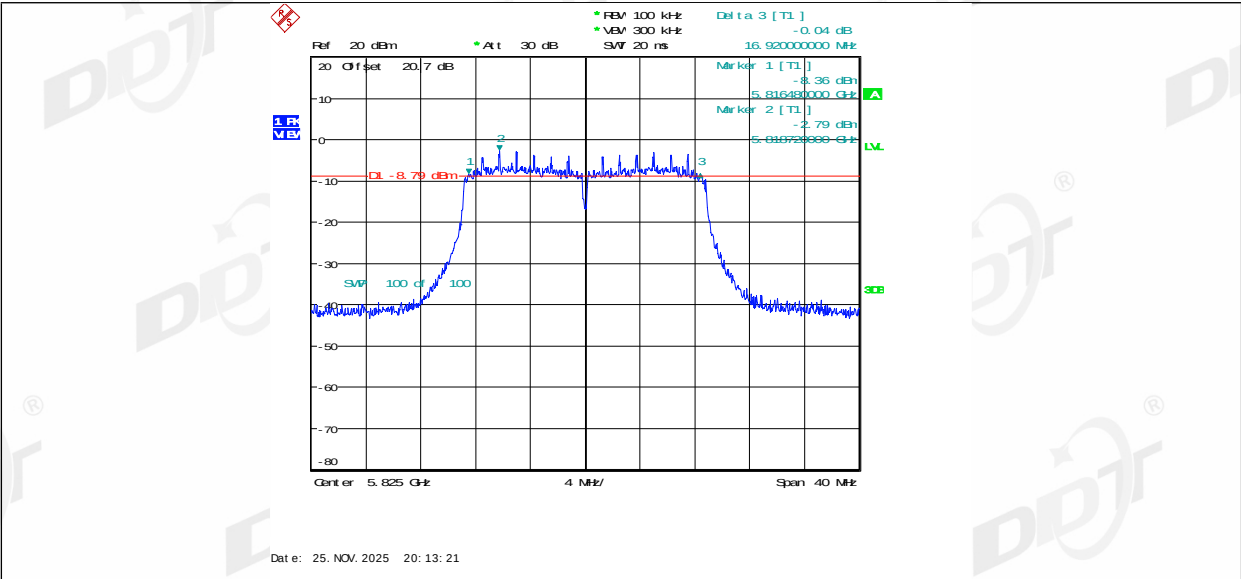
11N20SISO_Ant1_5745

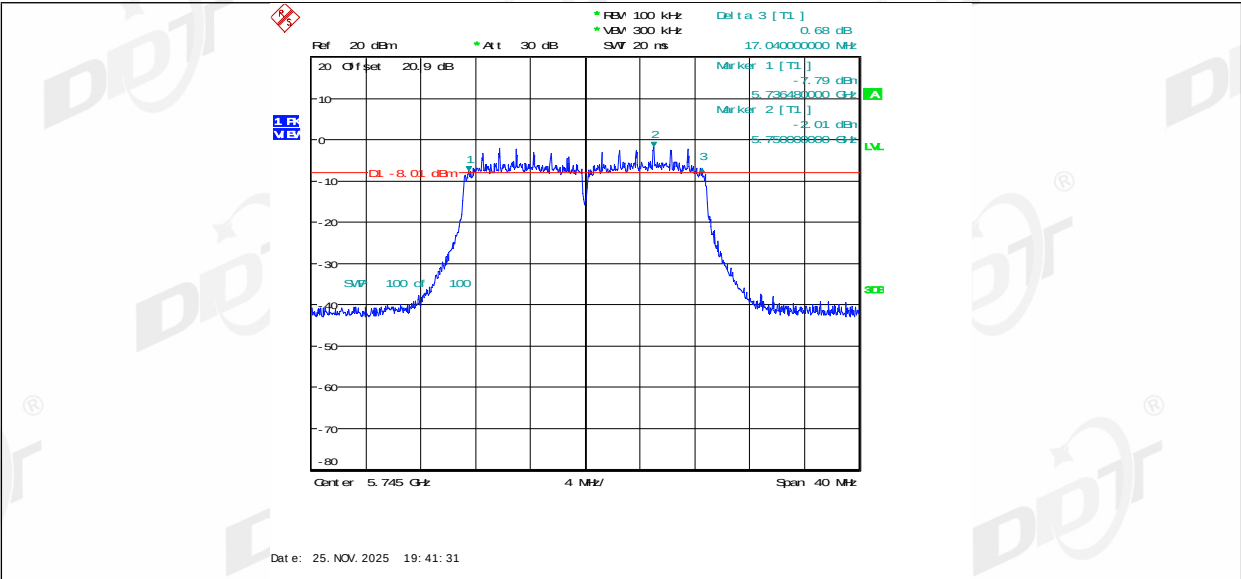


11N20SISO_Ant1_5785

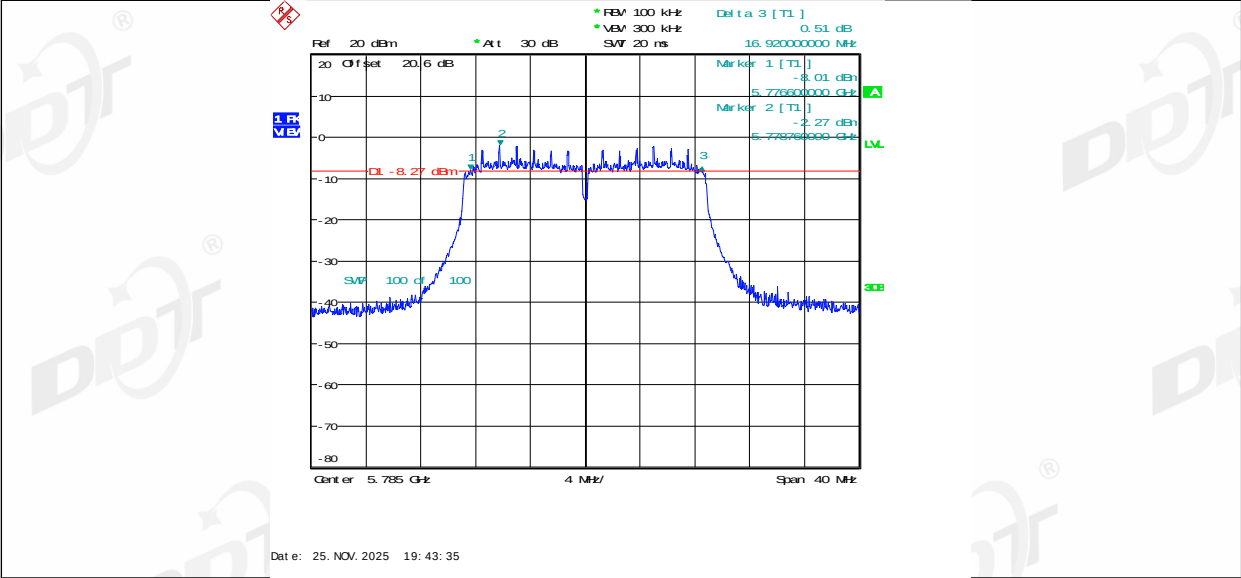


11N20SISO_Ant1_5825

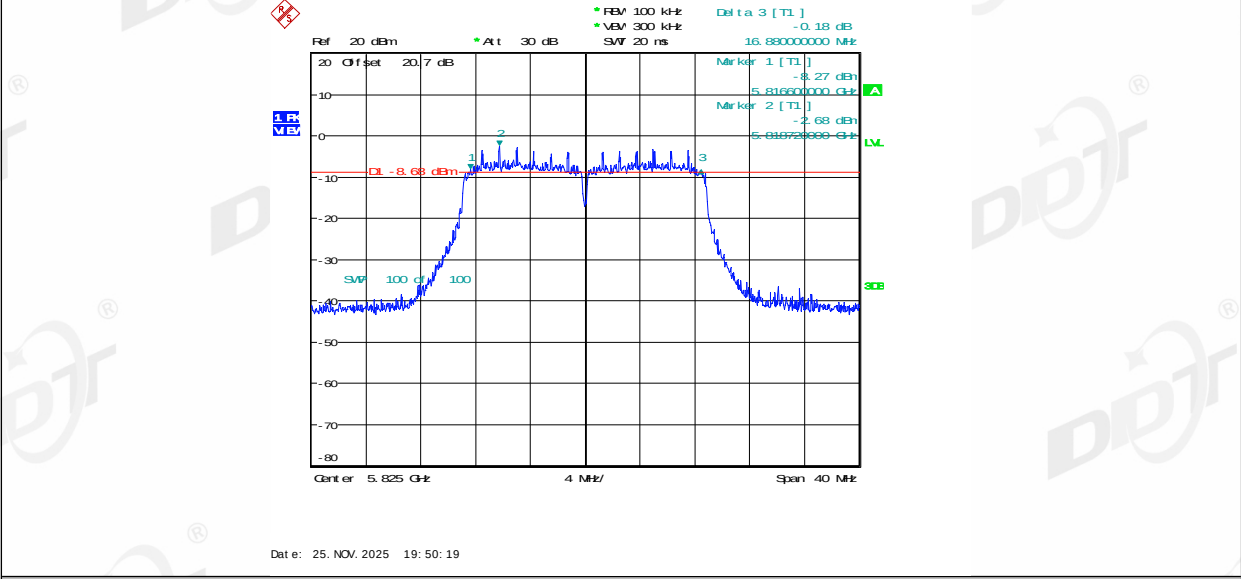




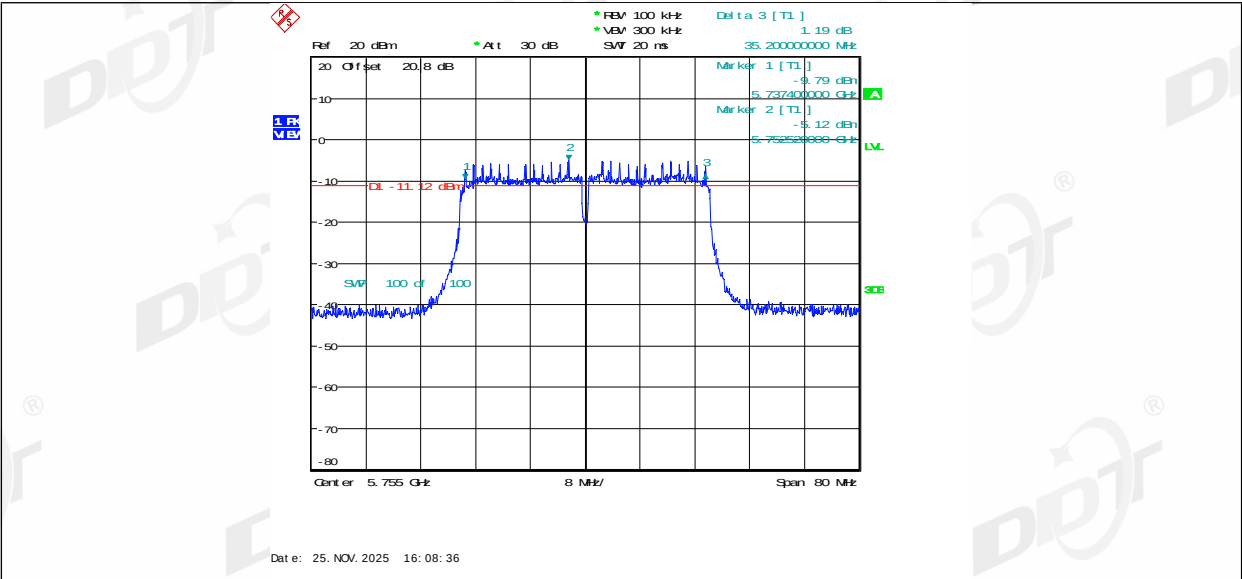
11AC20SISO Ant1 5785



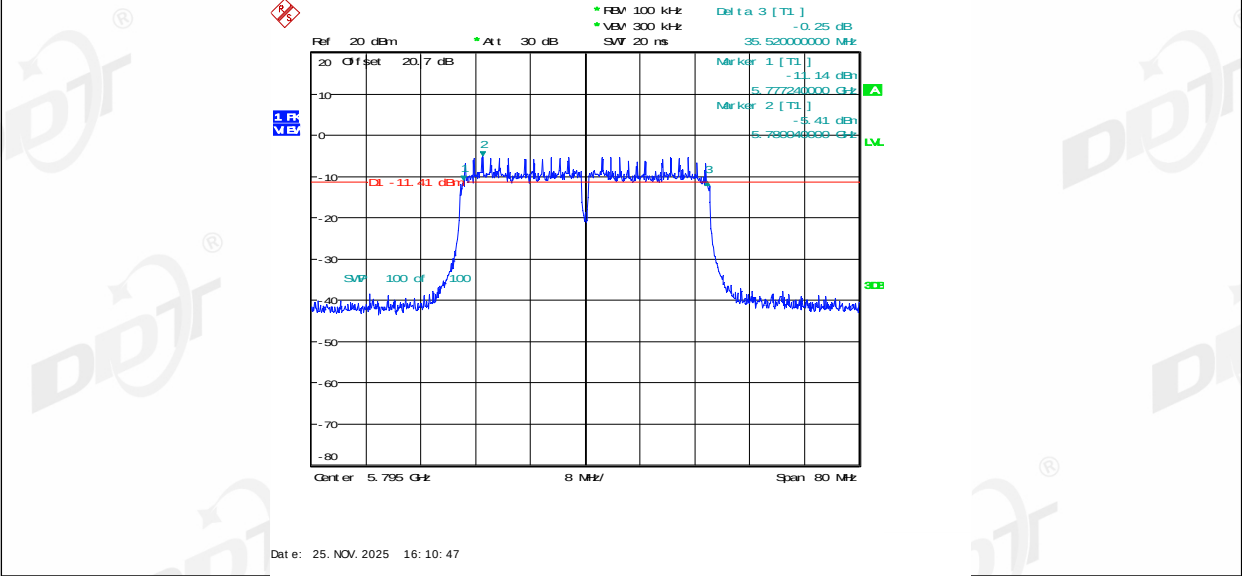
11AC20SISO Ant1 5825



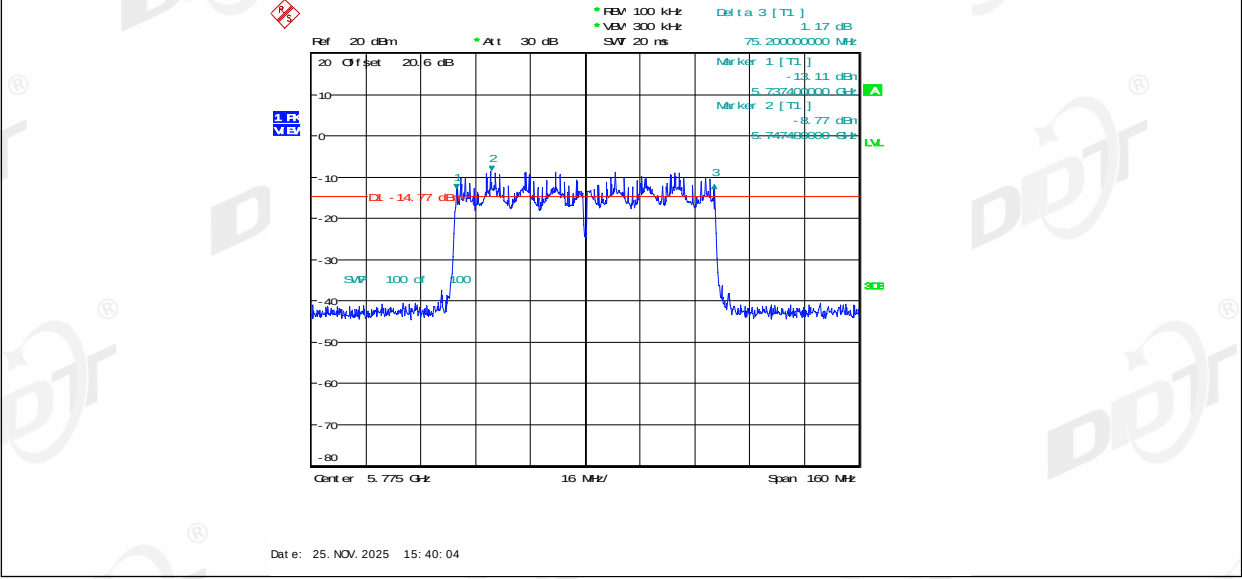
11AC40SISO Ant1 5755



11AC40SISO Ant1 5795

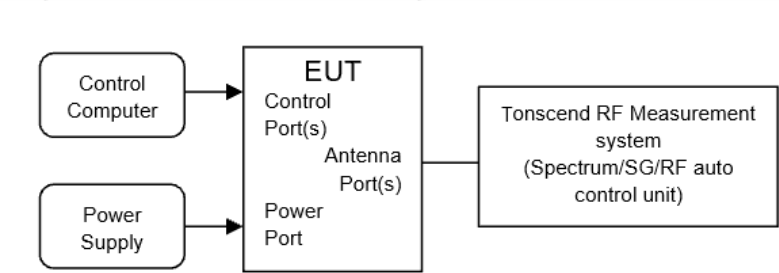


11AC80SISO Ant1 5775



6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

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

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

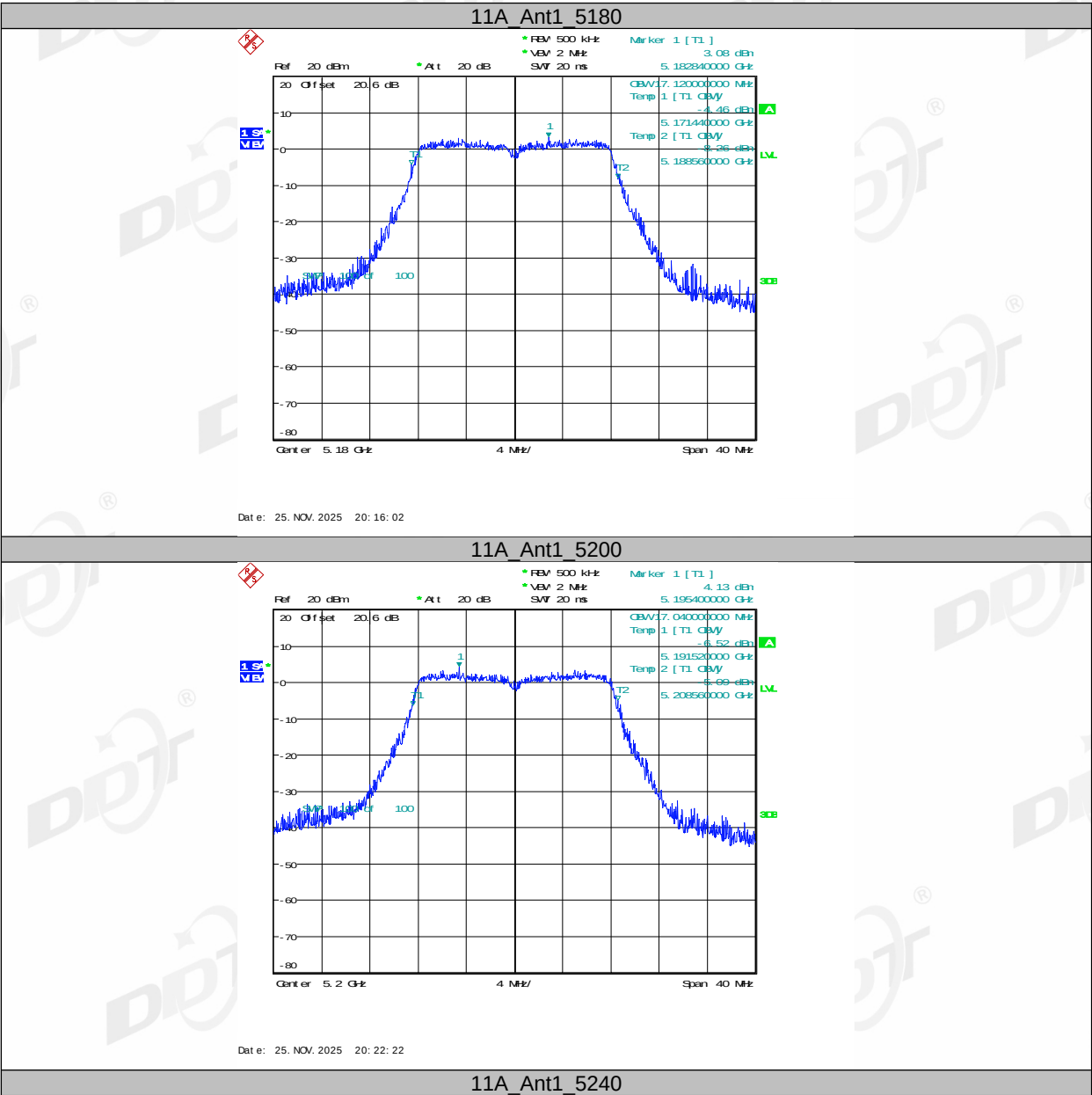
6.4. Test result

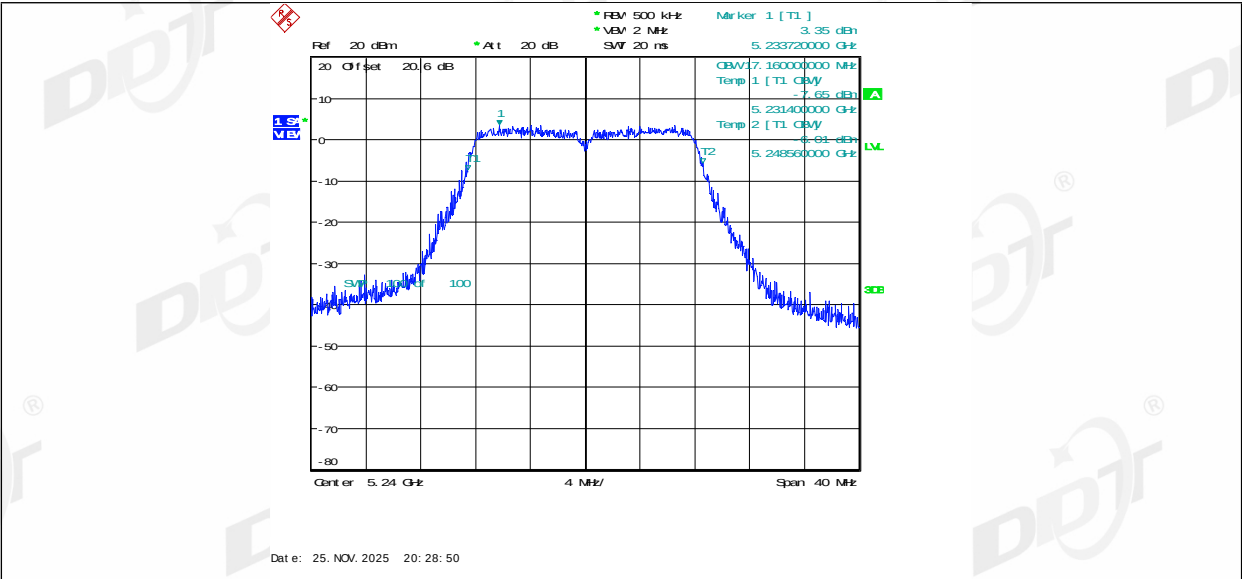
Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.2℃,47.1%RH	Test Date:	2025.10.31-2025.12.06
Test Power Supply:	DC 12V	Sample Number:	S25092809-001

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.120	5171.440 0	5188.560 0	---	---
		5200	17.040	5191.520 0	5208.560 0	---	---
		5240	17.160	5231.400 0	5248.560 0	---	---
		5260	17.080	5251.440 0	5268.520 0	---	---
		5280	17.200	5271.320 0	5288.520 0	---	---
		5320	17.120	5311.400 0	5328.520 0	---	---
		5745	17.160	5736.440 0	5753.600 0	---	---
		5785	17.200	5776.360 0	5793.560 0	---	---
		5825	17.040	5816.480 0	5833.520 0	---	---
11N20SISO	Ant1	5180	18.040	5171.000 0	5189.040 0	---	---
		5200	18.040	5190.960 0	5209.000 0	---	---
		5240	18.000	5231.000 0	5249.000 0	---	---
		5260	18.000	5251.000 0	5269.000 0	---	---
		5280	18.120	5270.880 0	5289.000 0	---	---
		5320	18.080	5310.960 0	5329.040 0	---	---
		5745	18.000	5736.000 0	5754.000 0	---	---
		5785	18.000	5775.960 0	5793.960 0	---	---
		5825	18.000	5815.960 0	5833.960 0	---	---
11N40SISO	Ant1	5190	36.400	5171.840 0	5208.240 0	---	---
		5230	36.480	5211.760 0	5248.240 0	---	---
		5270	36.320	5251.840 0	5288.160 0	---	---
		5310	36.480	5291.600 0	5328.080 0	---	---
		5755	36.400	5736.760 0	5773.160 0	---	---
		5795	36.400	5776.760 0	5813.160 0	---	---
11AC20SISO	Ant1	5180	17.960	5171.000 0	5188.960 0	---	---
		5200	18.000	5191.000 0	5209.000 0	---	---
		5240	18.040	5230.960 0	5249.000 0	---	---
		5260	18.040	5251.000 0	5269.040 0	---	---

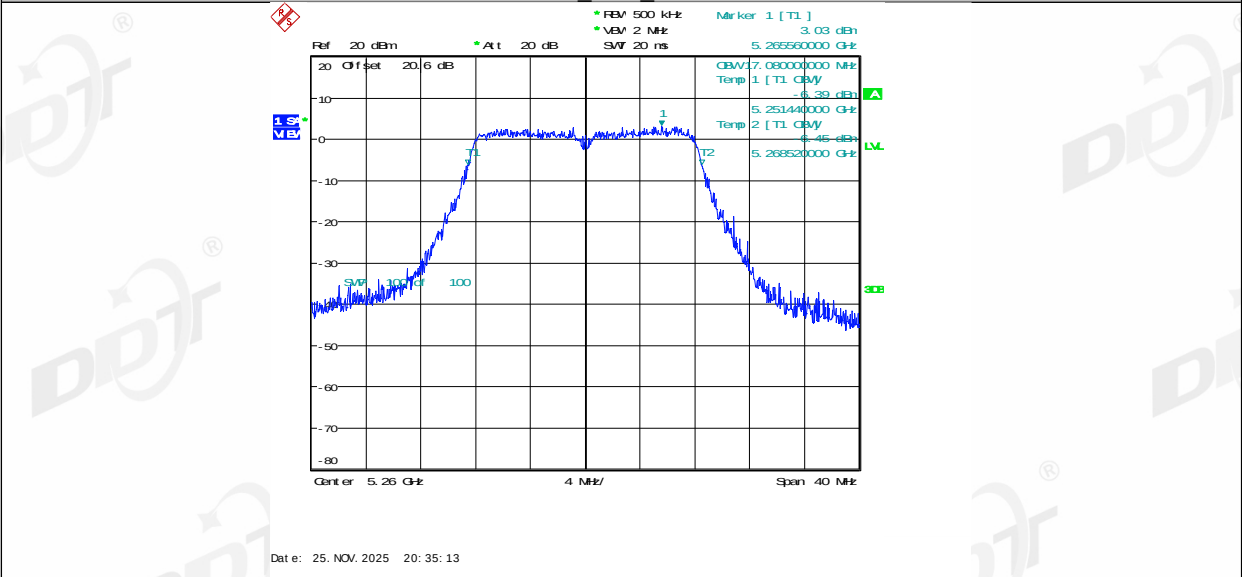
		5280	17.960	5271.000 0	5288.960 0	---	---
		5320	18.000	5310.960 0	5328.960 0	---	---
		5745	17.960	5736.000 0	5753.960 0	---	---
		5785	18.120	5775.960 0	5794.080 0	---	---
		5825	18.080	5815.880 0	5833.960 0	---	---
11AC40SIS O	Ant1	5190	36.400	5171.760 0	5208.160 0	---	---
		5230	36.480	5211.760 0	5248.240 0	---	---
		5270	36.320	5251.840 0	5288.160 0	---	---
		5310	36.480	5291.600 0	5328.080 0	---	---
		5755	36.480	5736.760 0	5773.240 0	---	---
		5795	36.400	5776.680 0	5813.080 0	---	---
11AC80SIS O	Ant1	5210	75.840	5172.080 0	5247.920 0	---	---
		5290	75.680	5252.080 0	5327.760 0	---	---
		5775	75.840	5737.080 0	5812.920 0	---	---

6.5. Test graphs

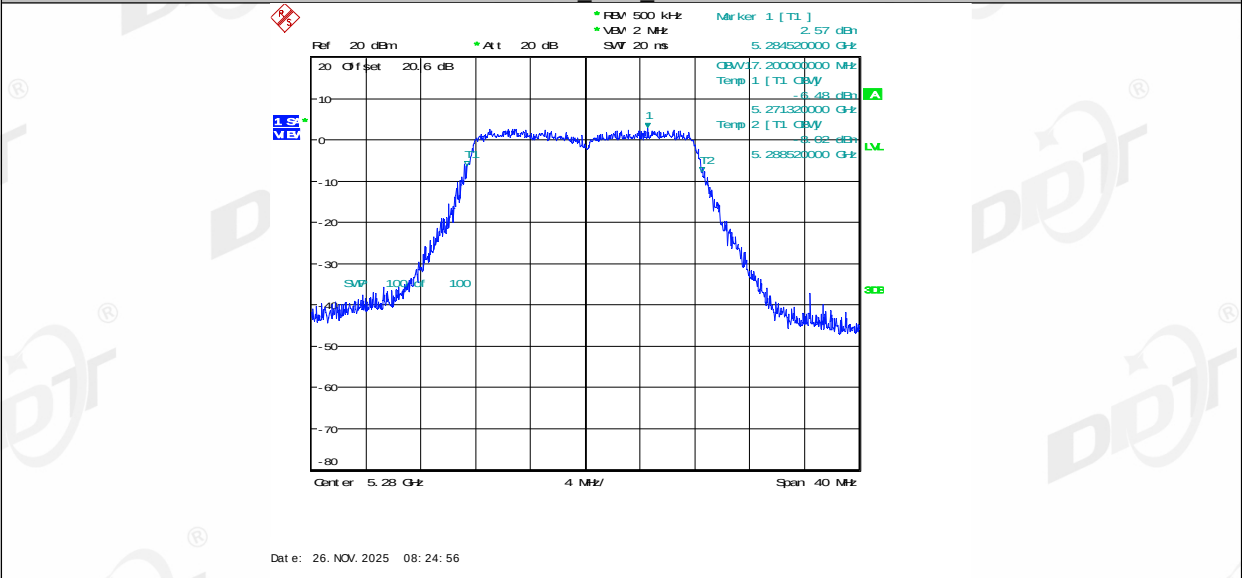




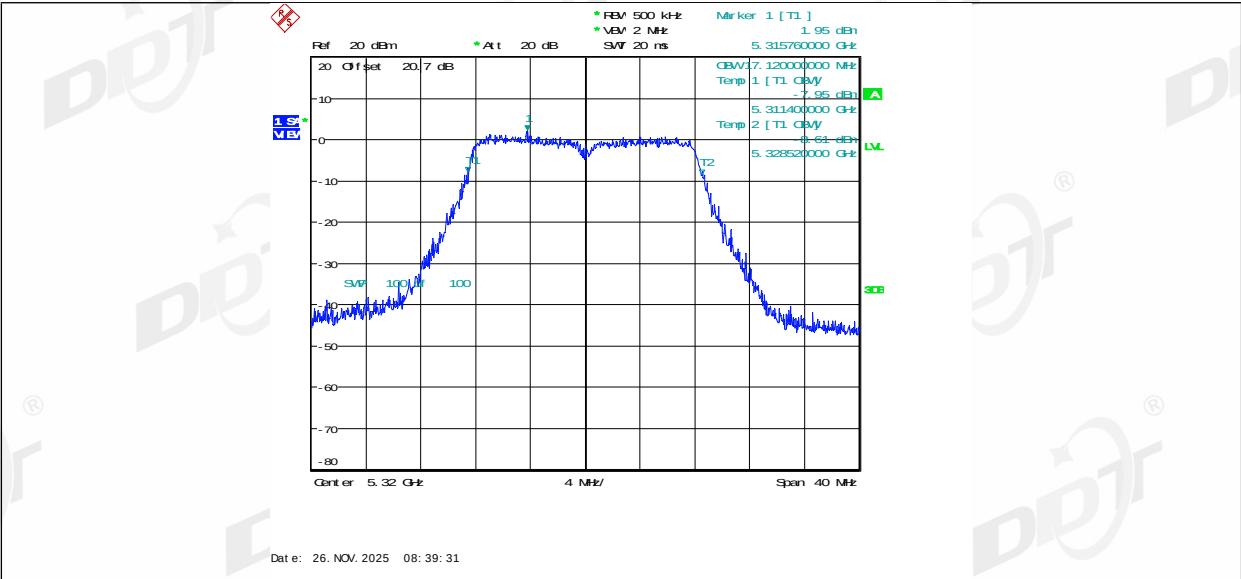
11A_Ant1_5260



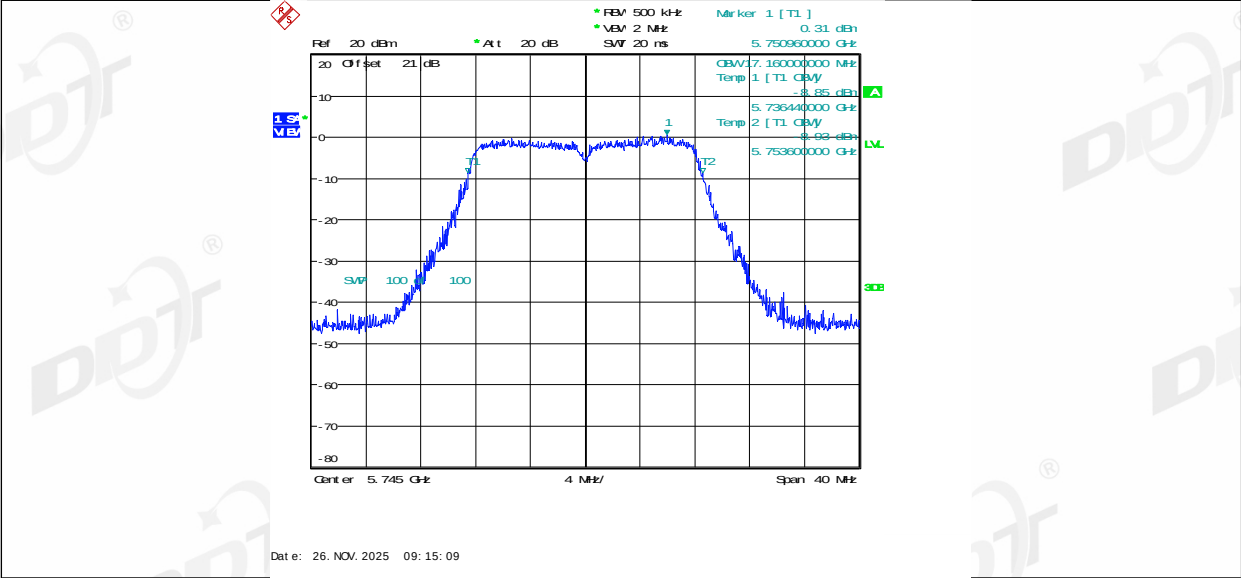
11A_Ant1_5280



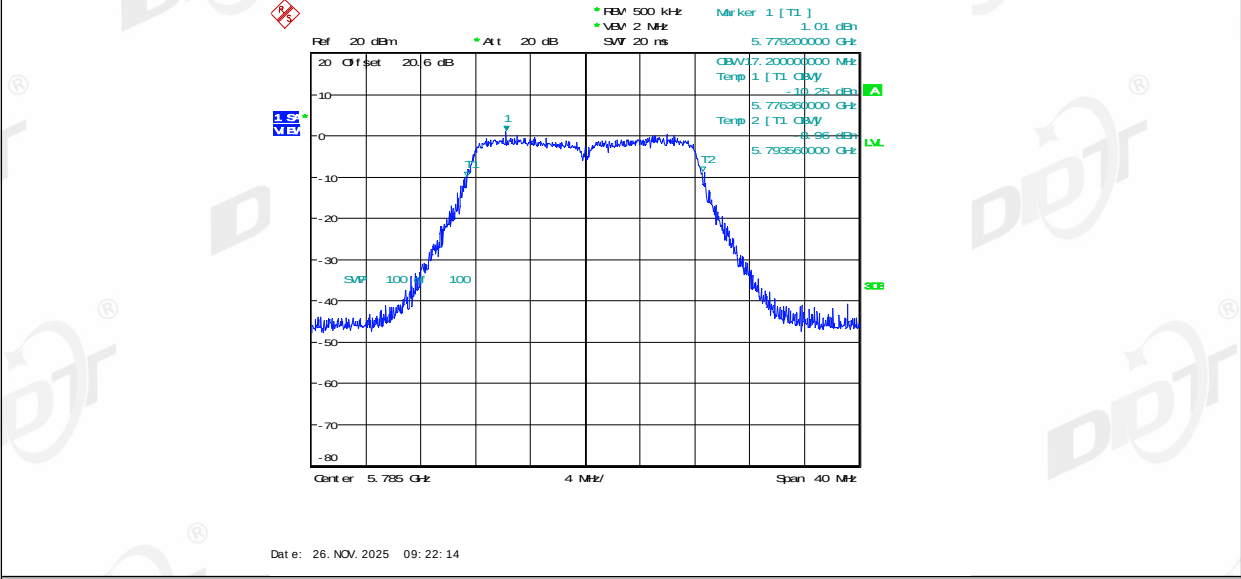
11A_Ant1_5320



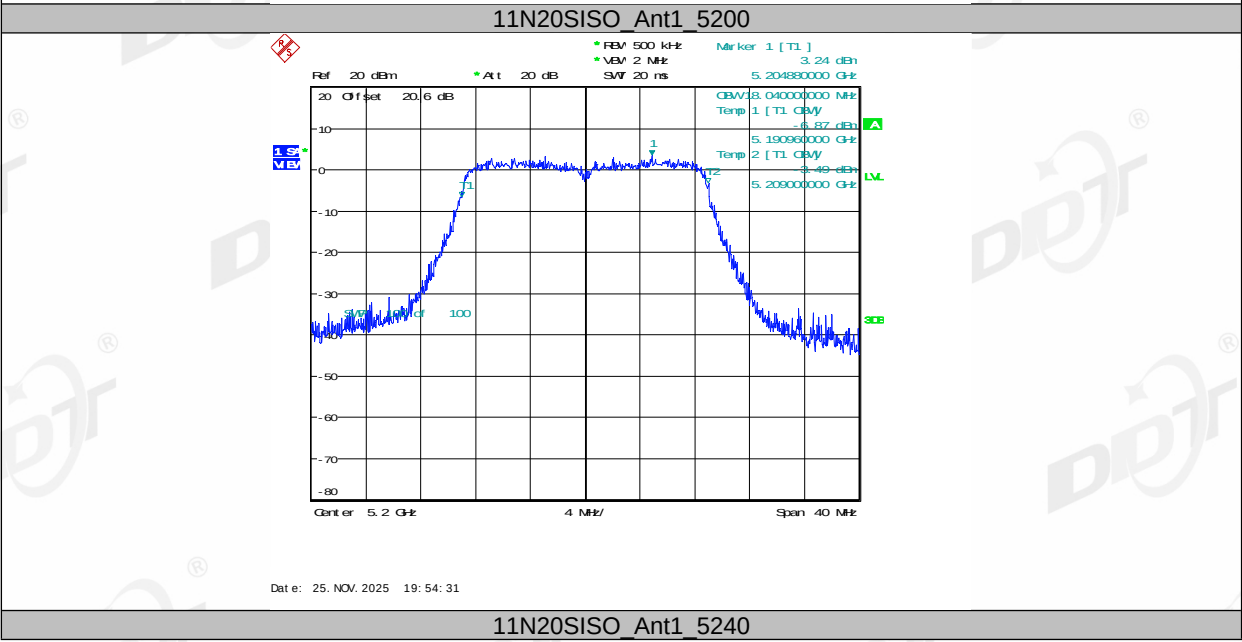
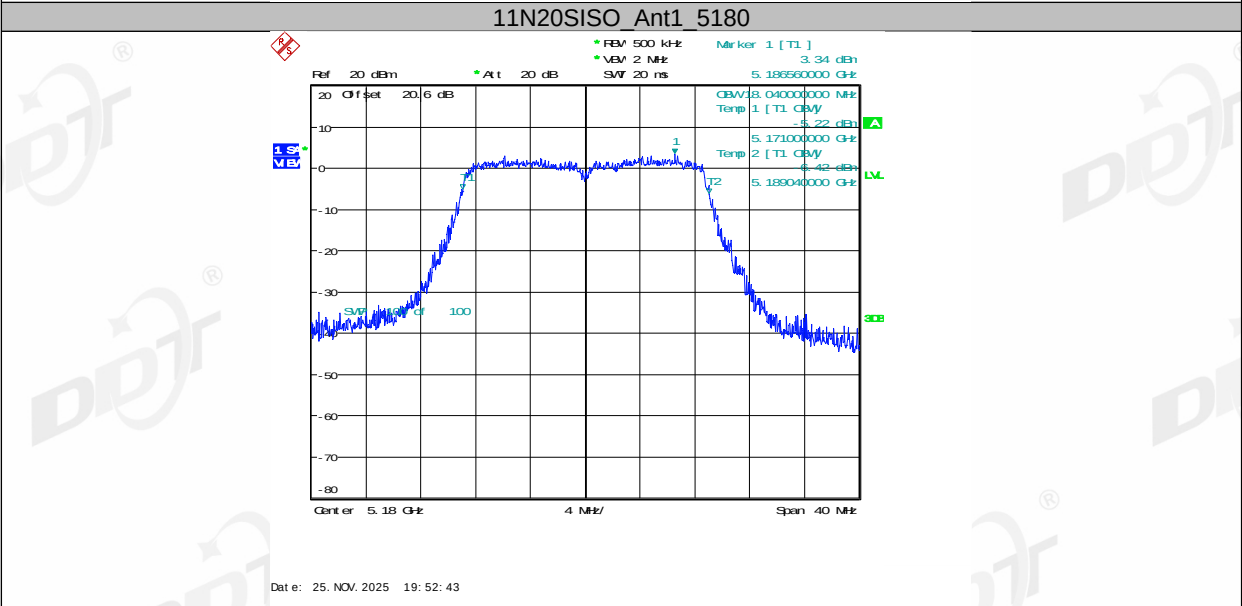
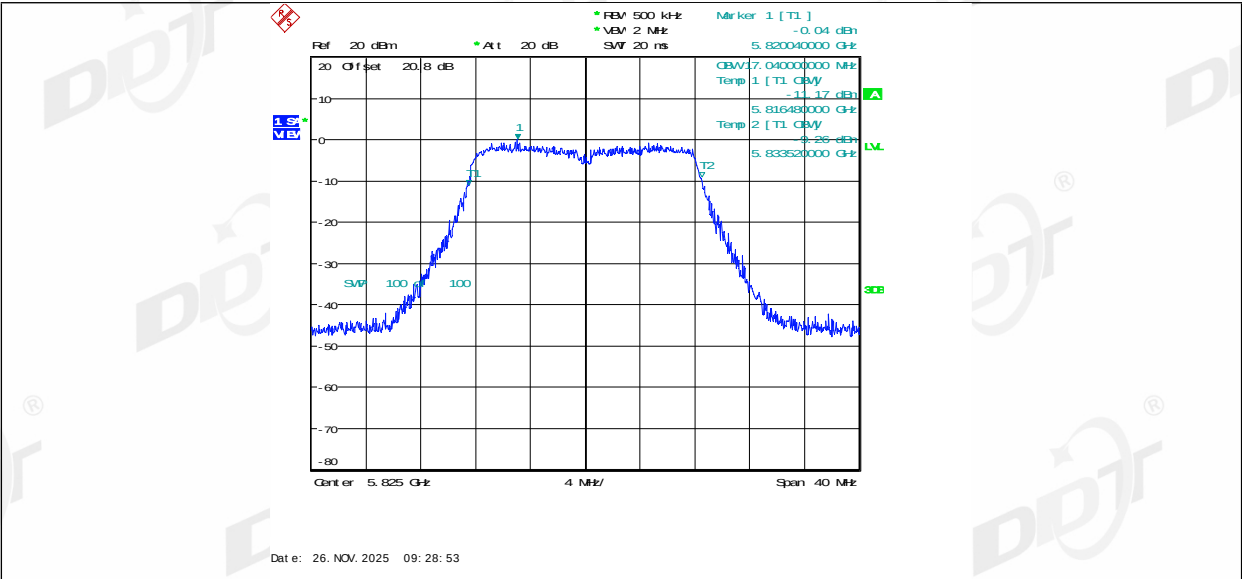
11A_Ant1_5745

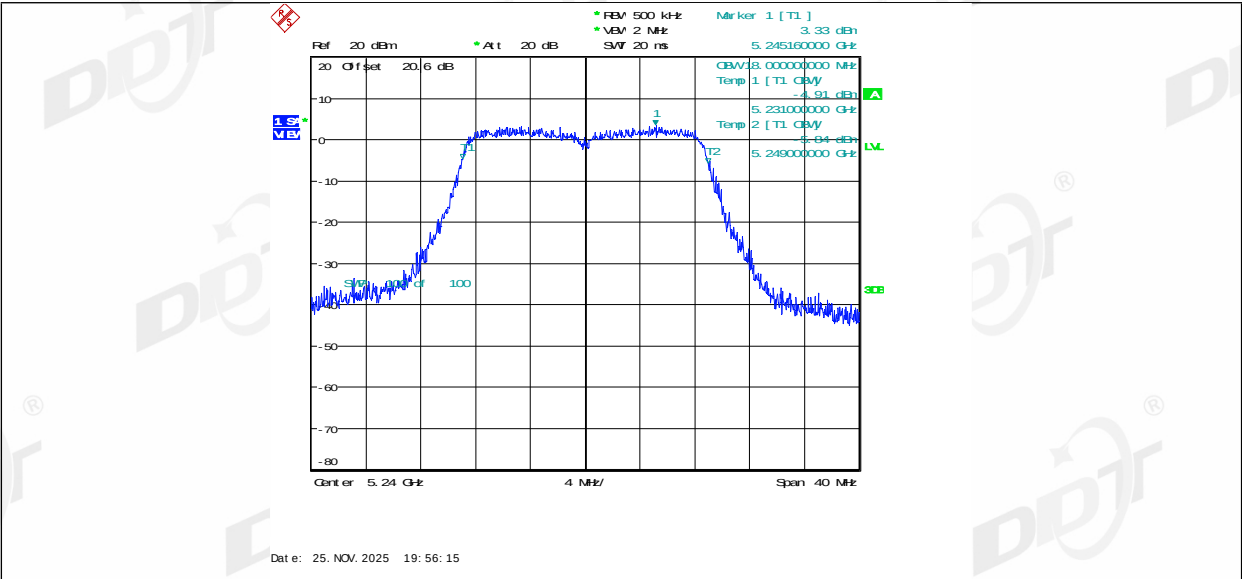


11A_Ant1_5785

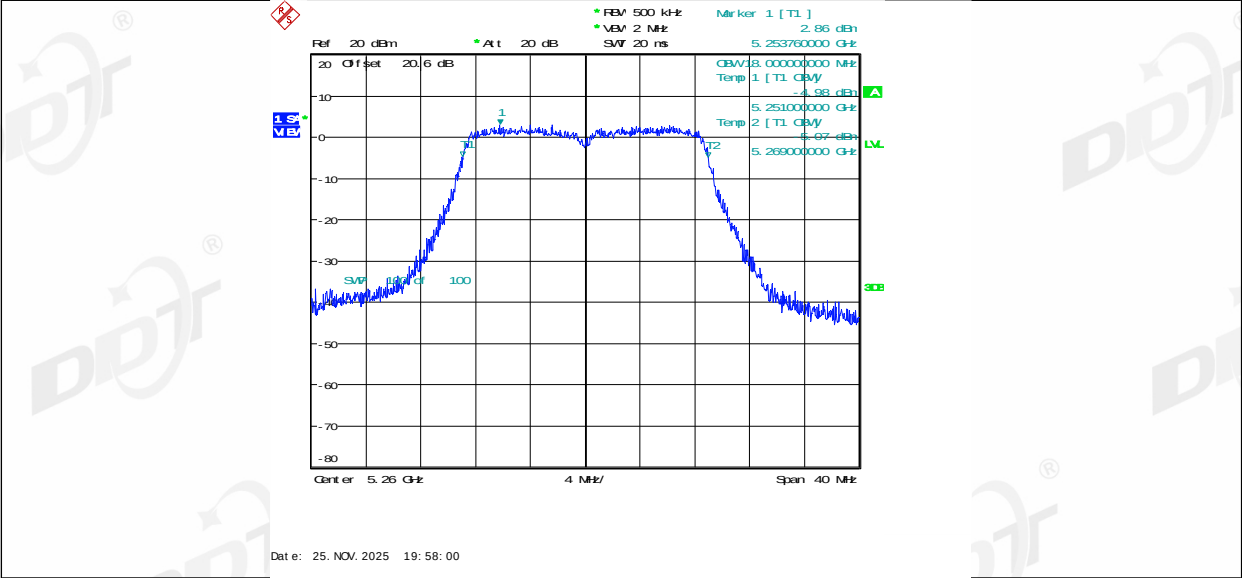


11A_Ant1_5825

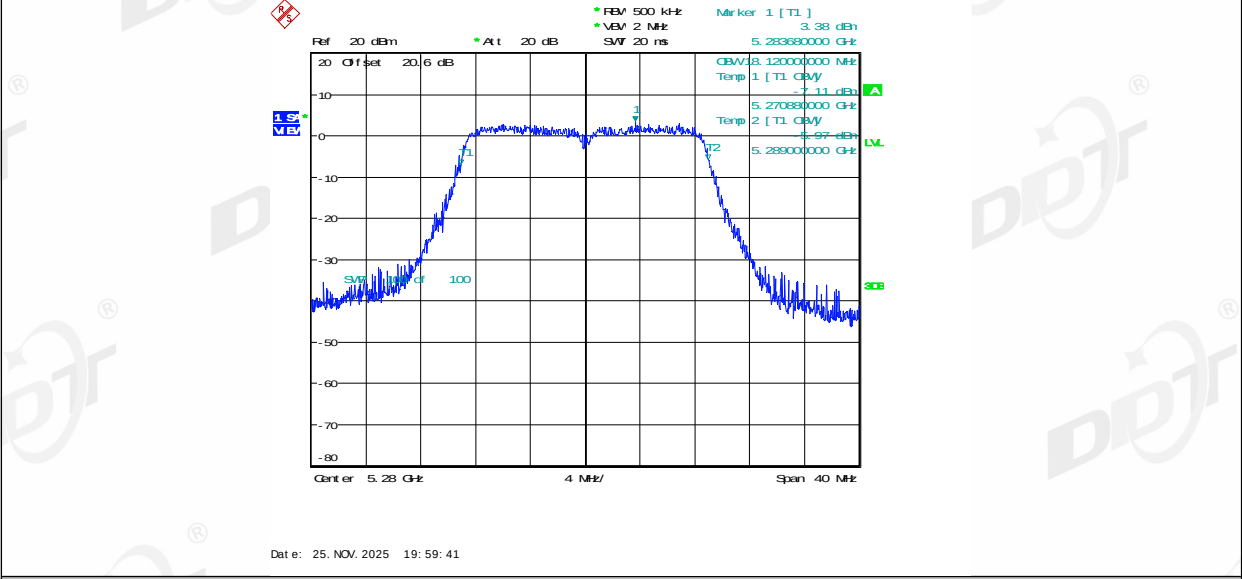




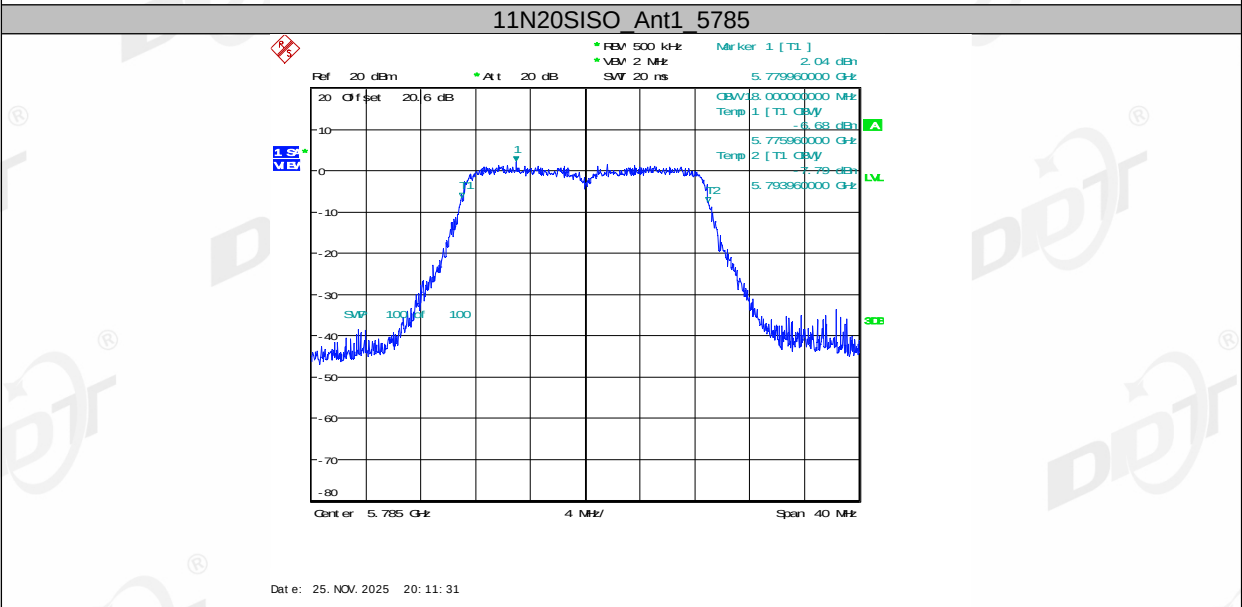
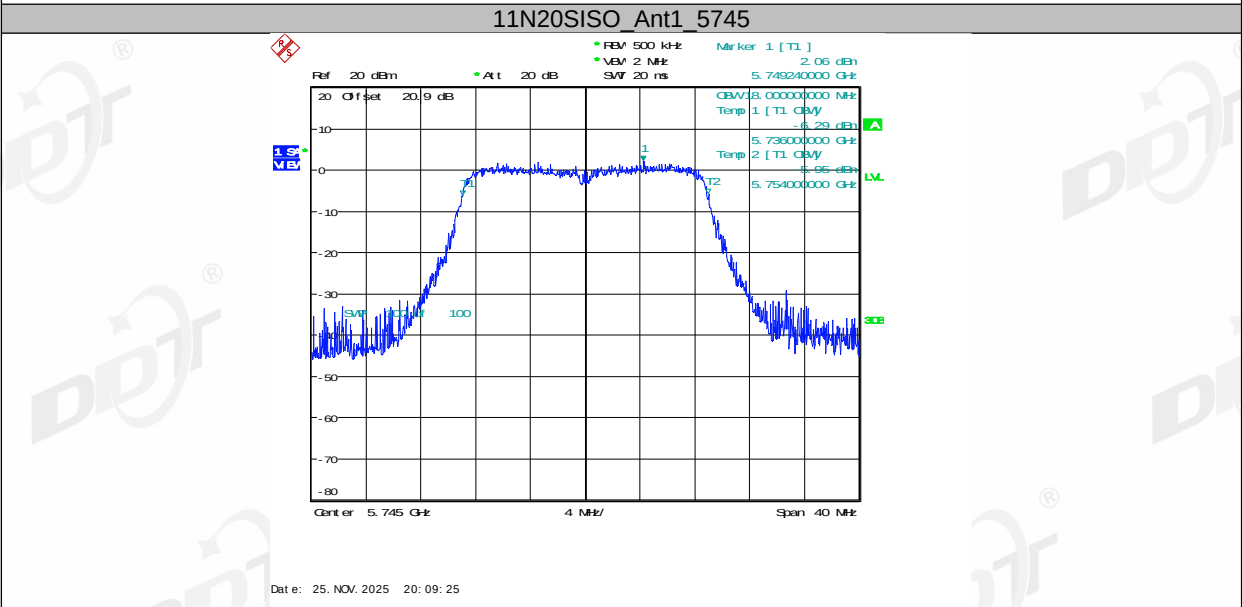
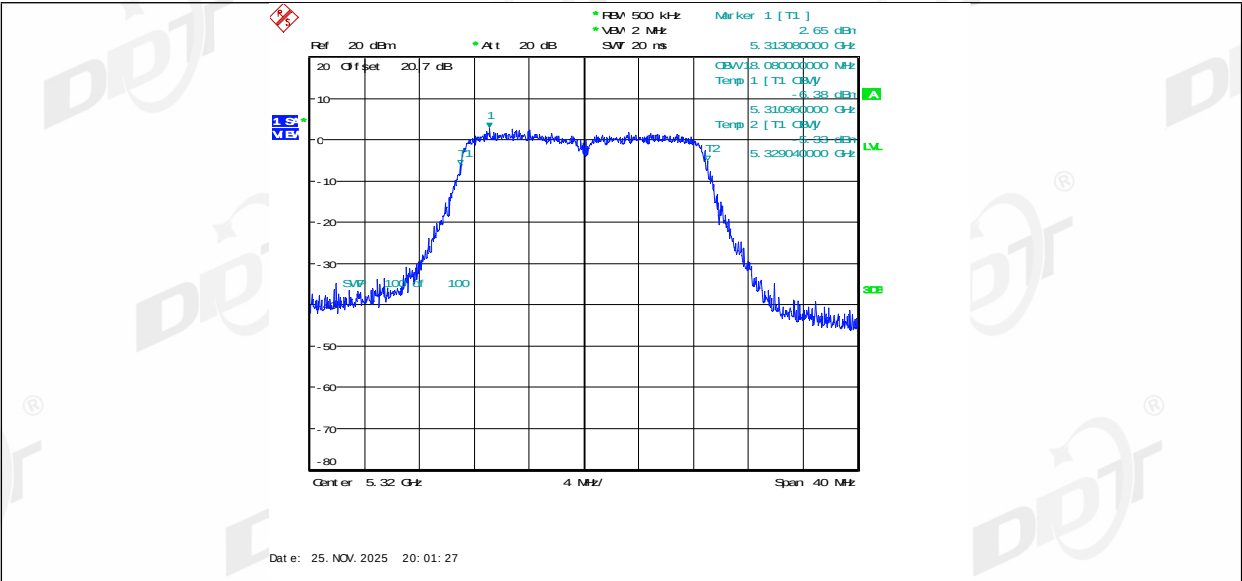
11N20SISO_Ant1_5260

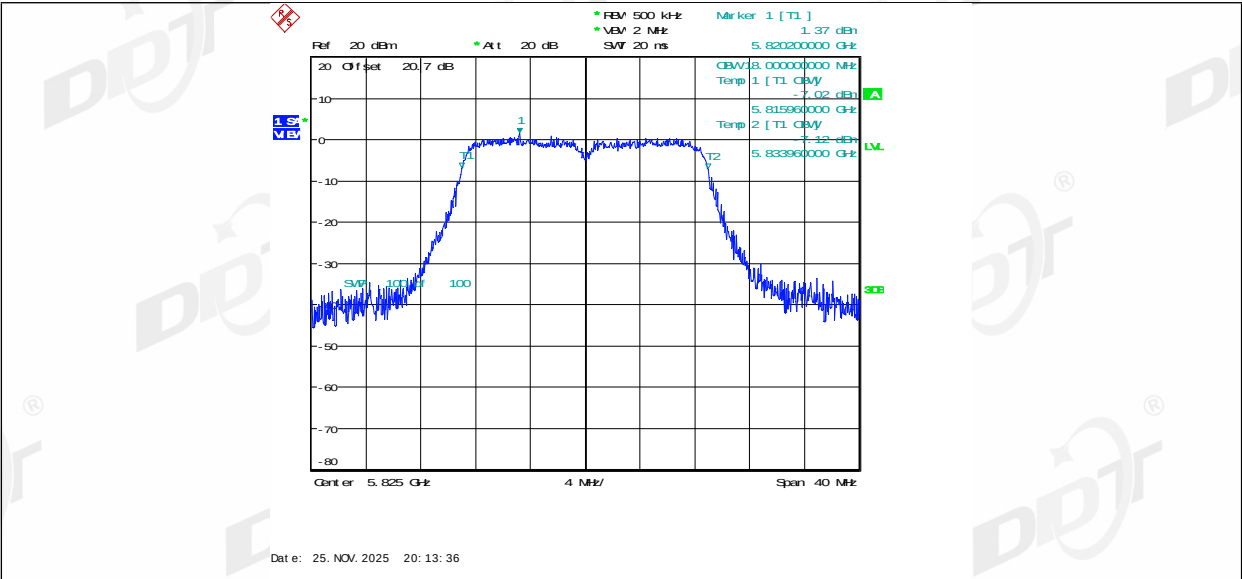


11N20SISO_Ant1_5280

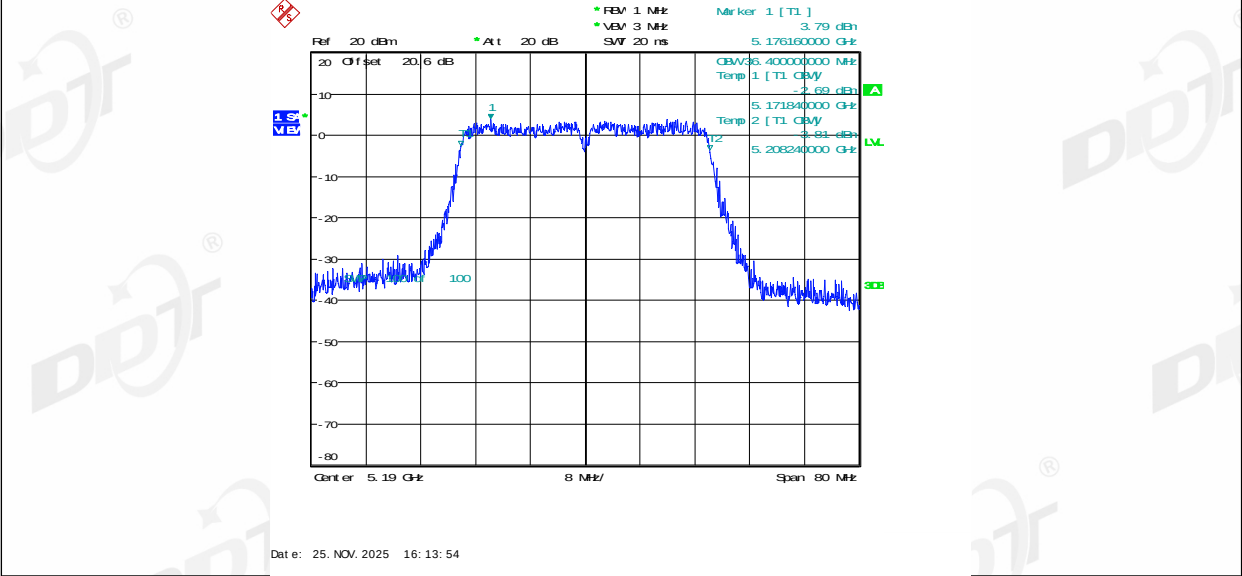


11N20SISO_Ant1_5320

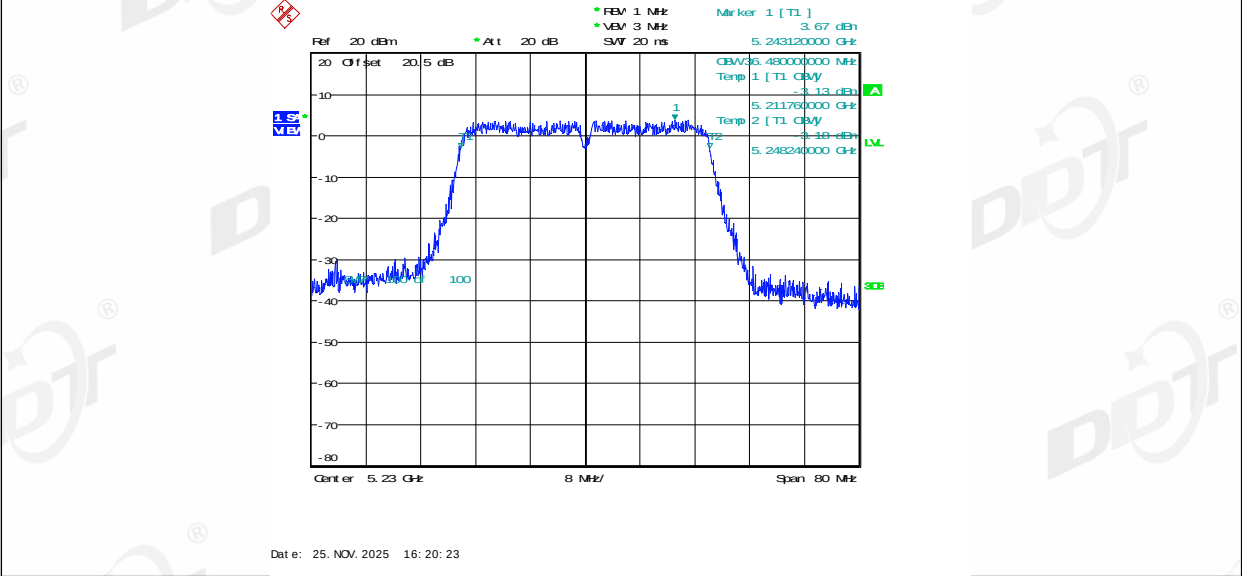




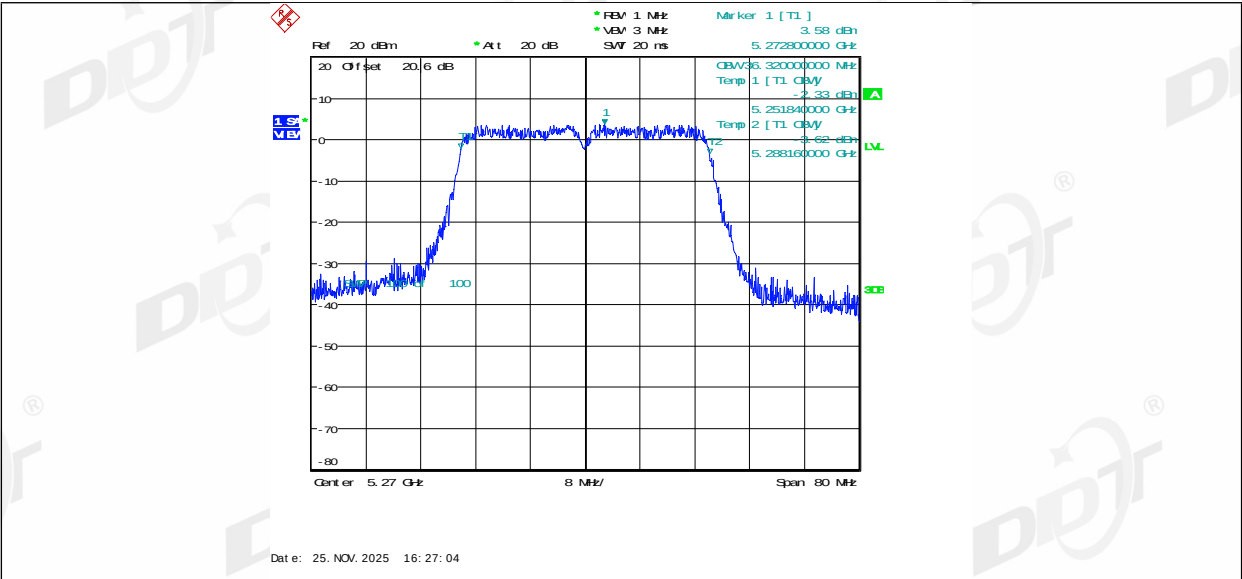
11N40SISO_Ant1_5190



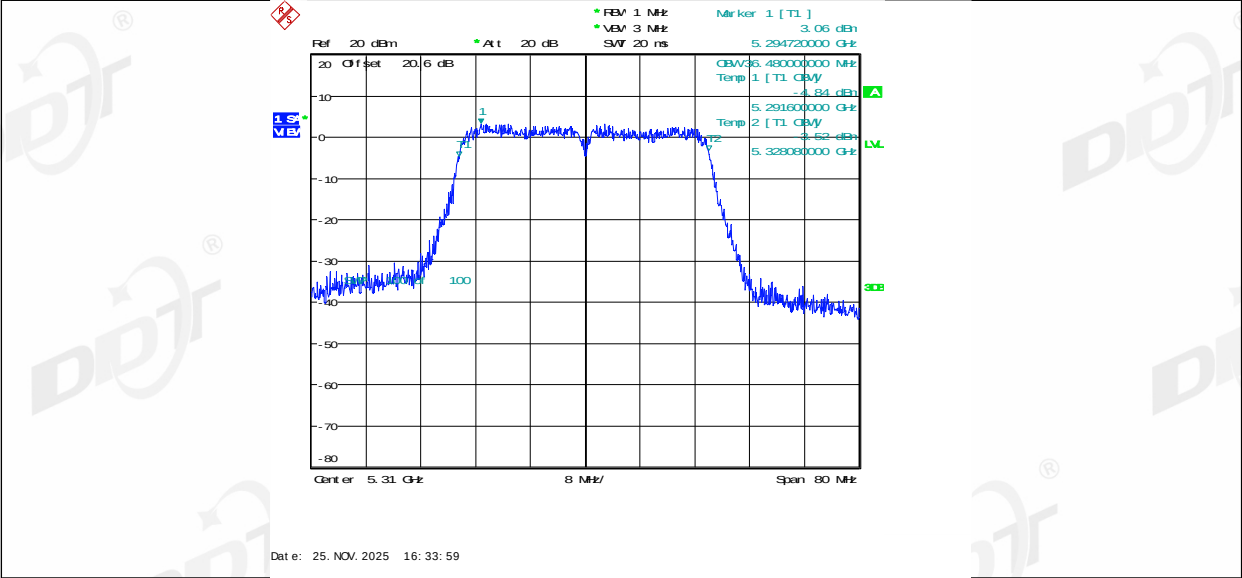
11N40SISO_Ant1_5230



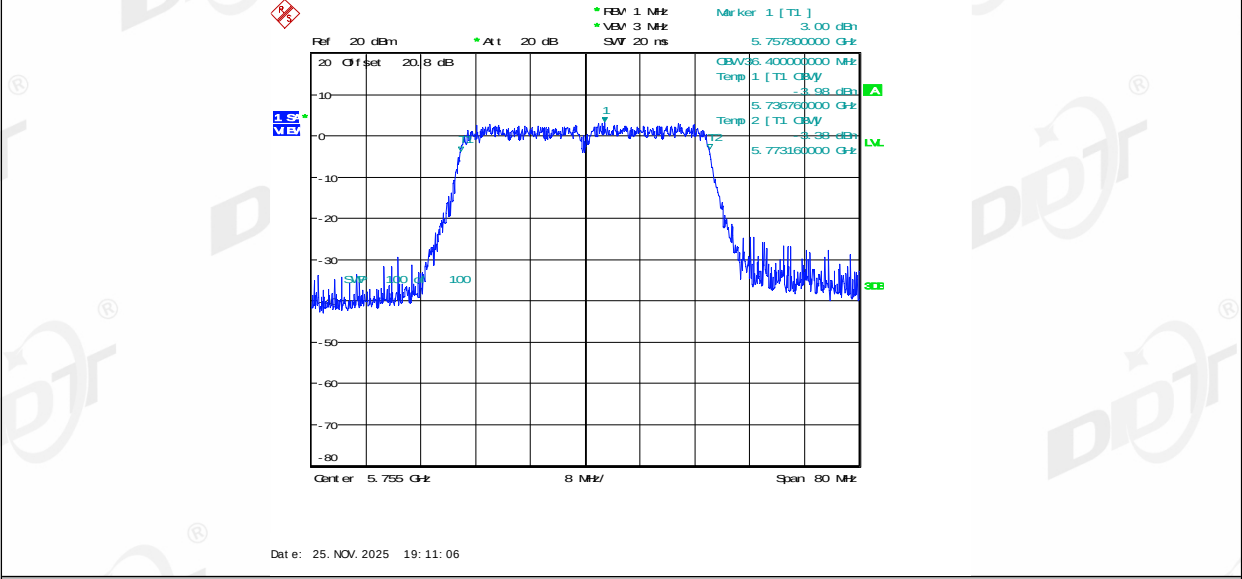
11N40SISO_Ant1_5270



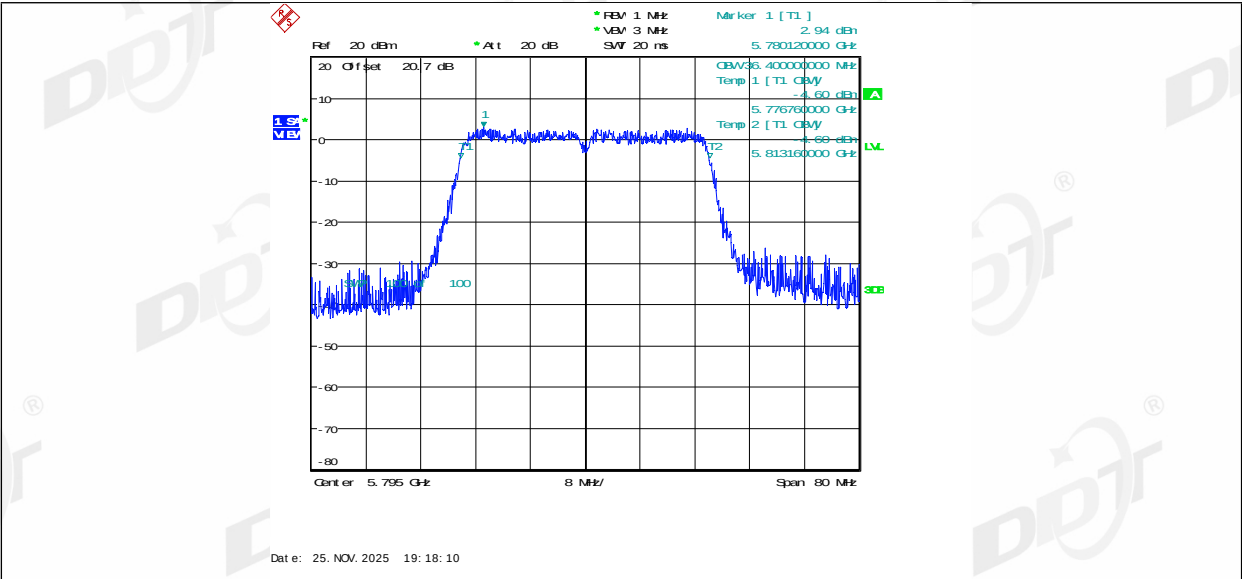
11N40SISO_Ant1_5310



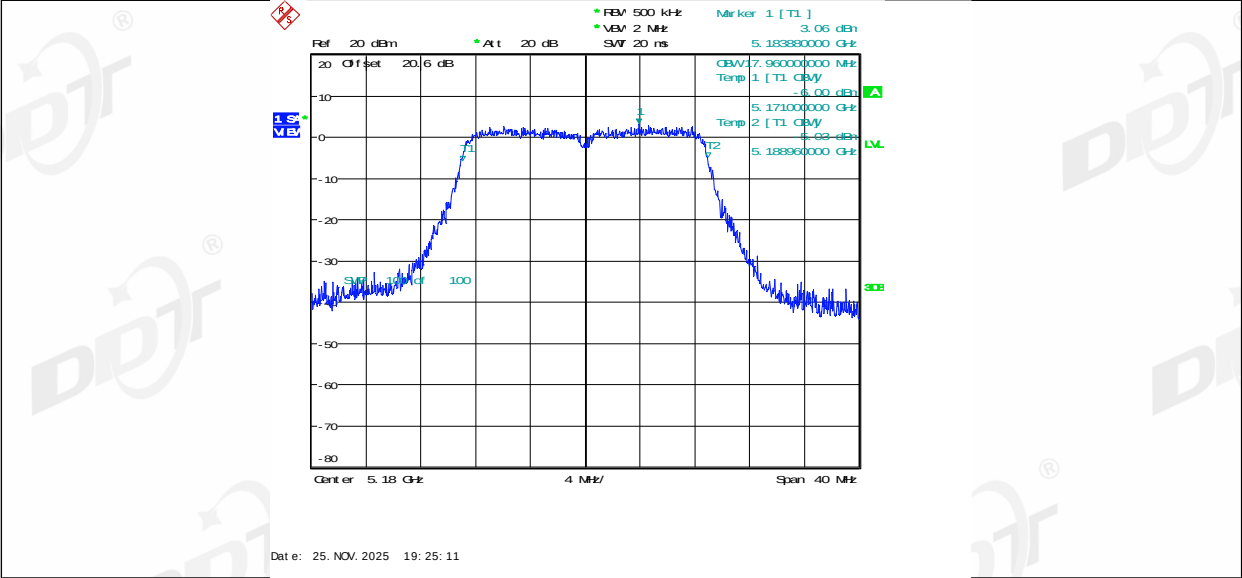
11N40SISO_Ant1_5755



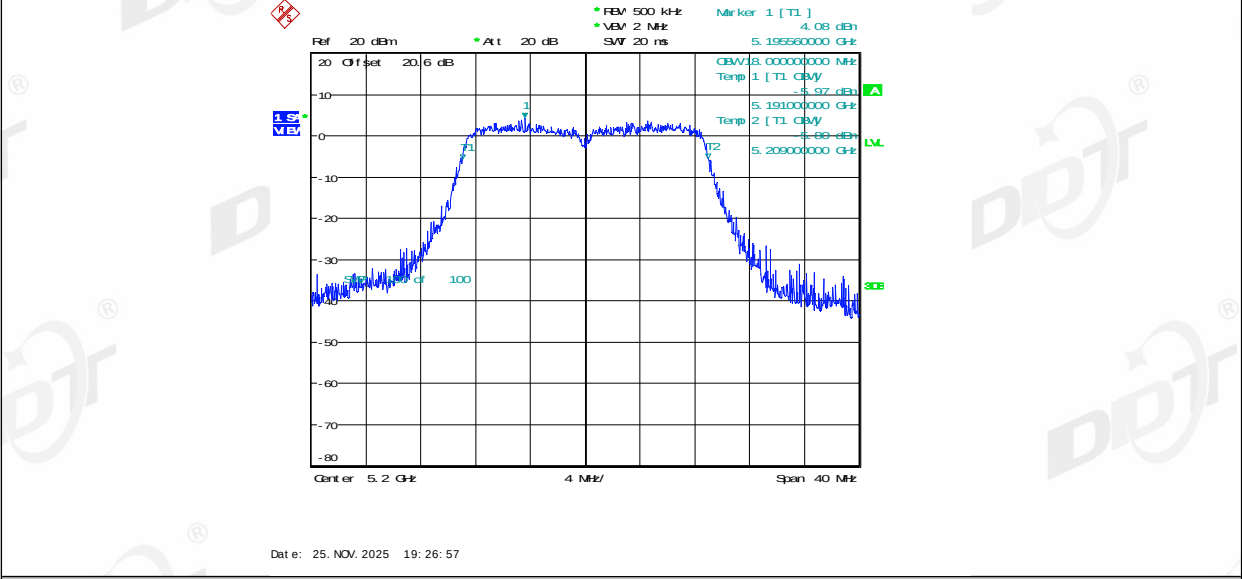
11N40SISO_Ant1_5795



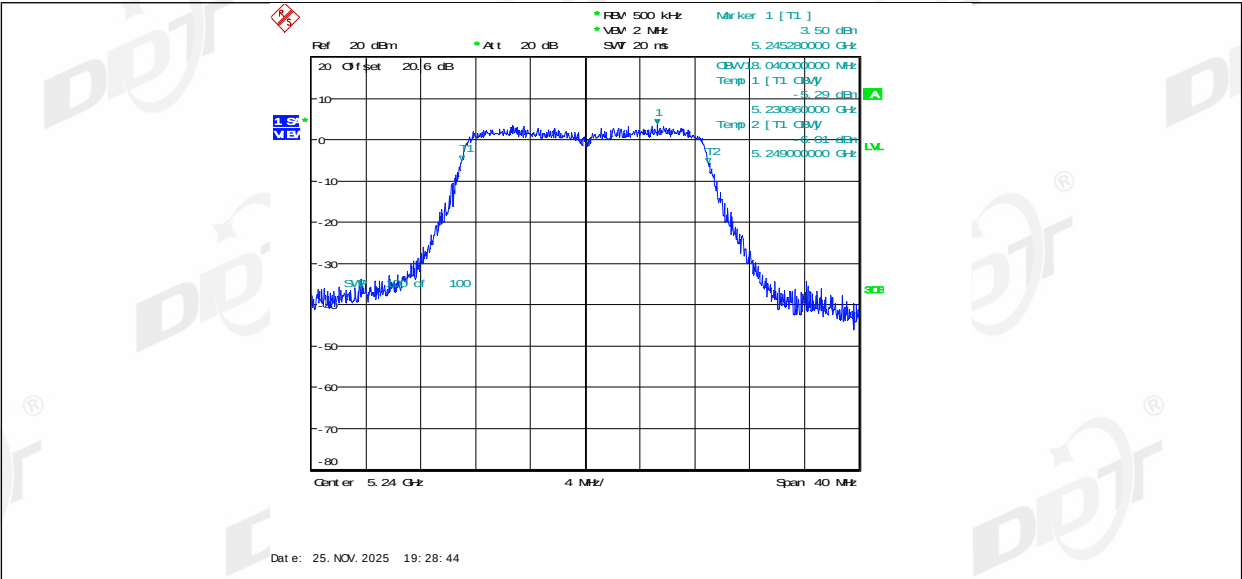
11AC20SISO Ant1 5180



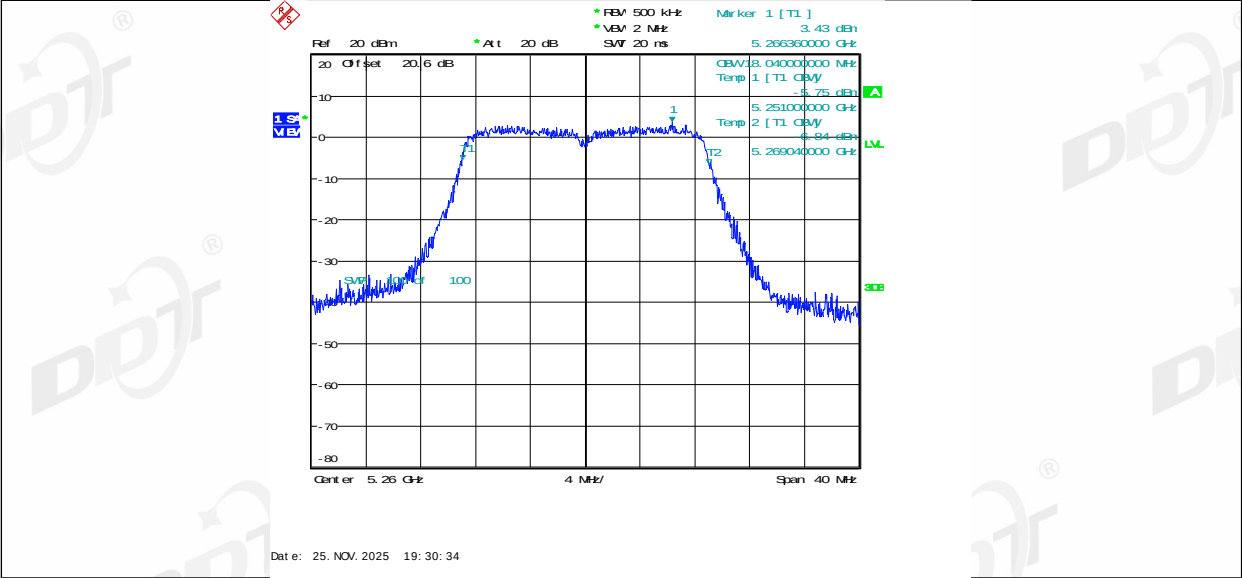
11AC20SISO Ant1 5200



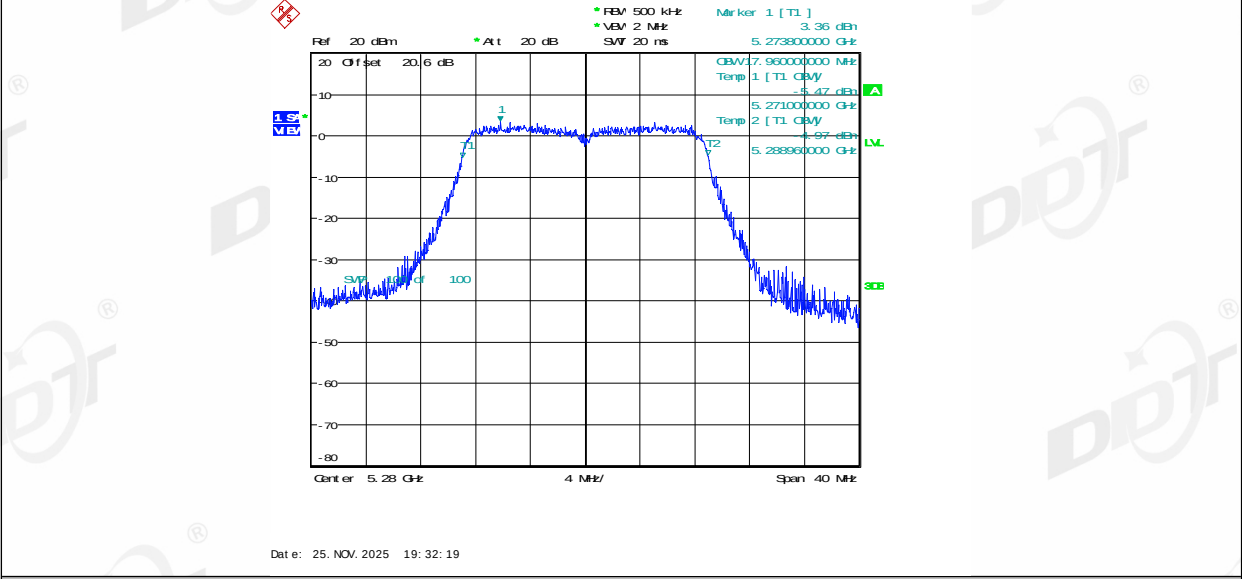
11AC20SISO Ant1 5240



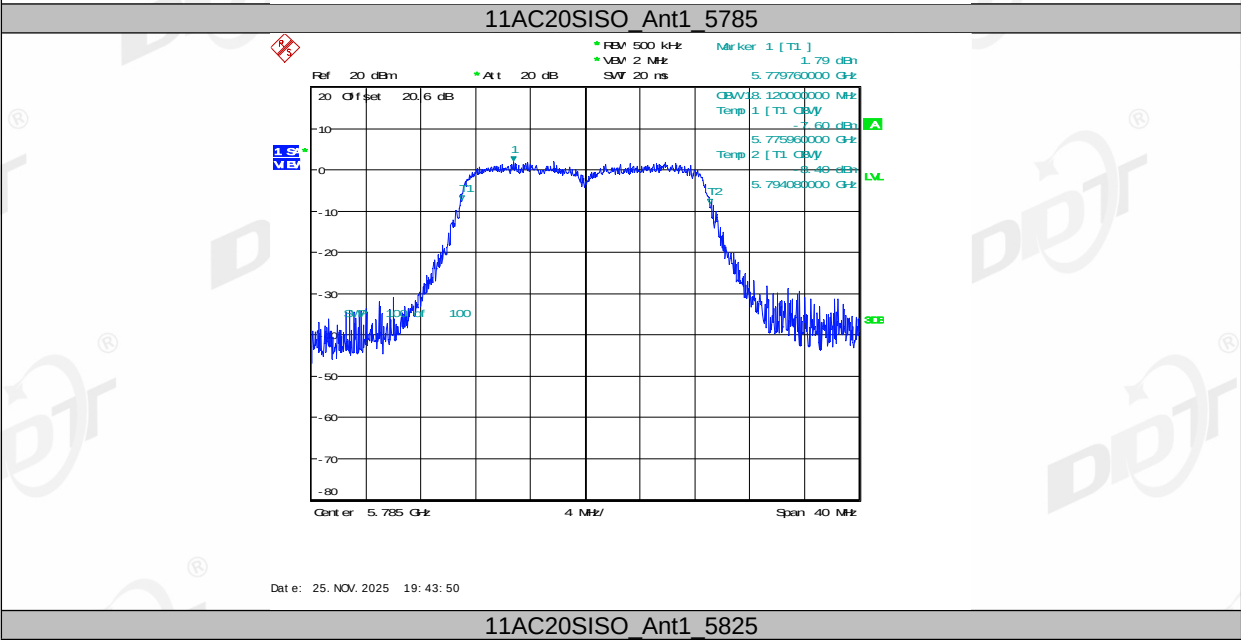
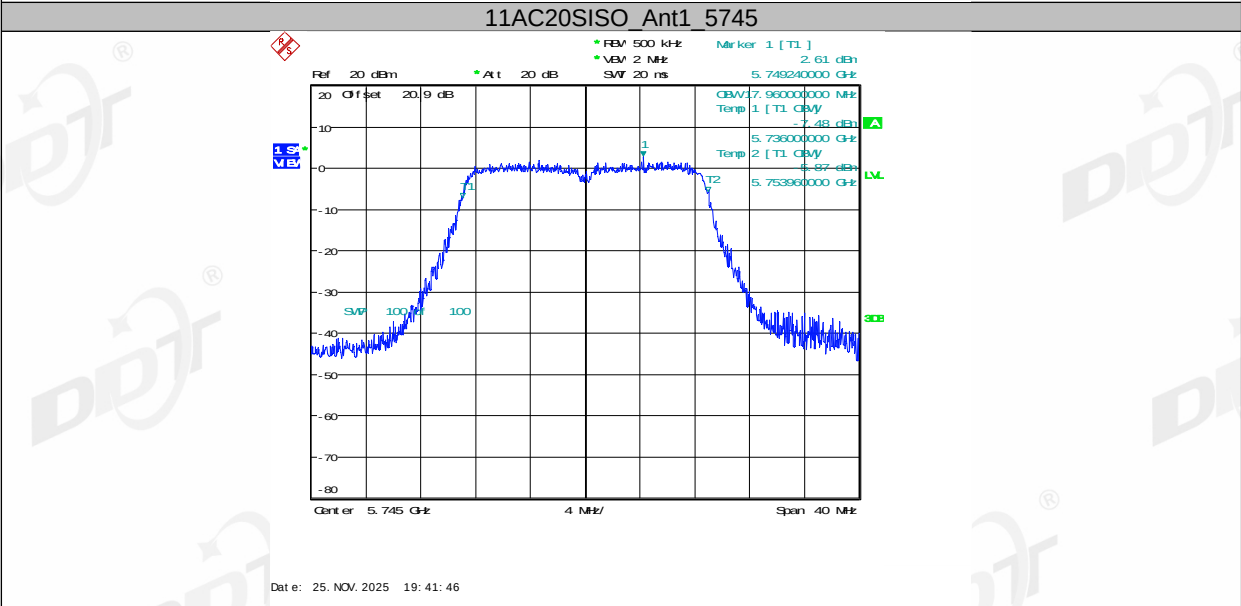
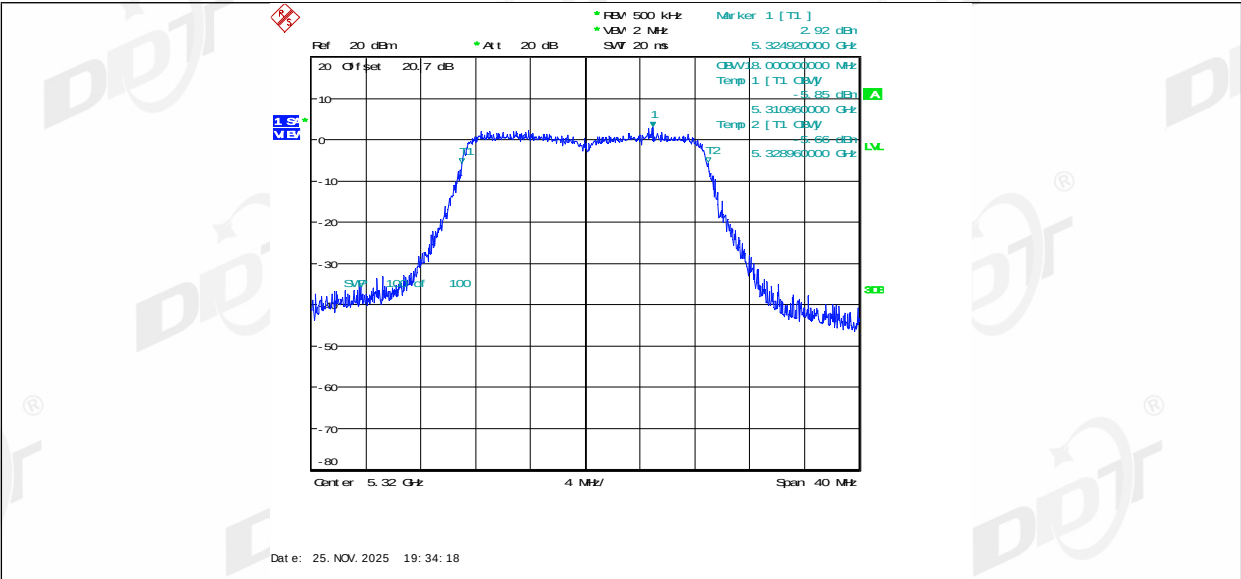
11AC20SISO_Ant1_5260

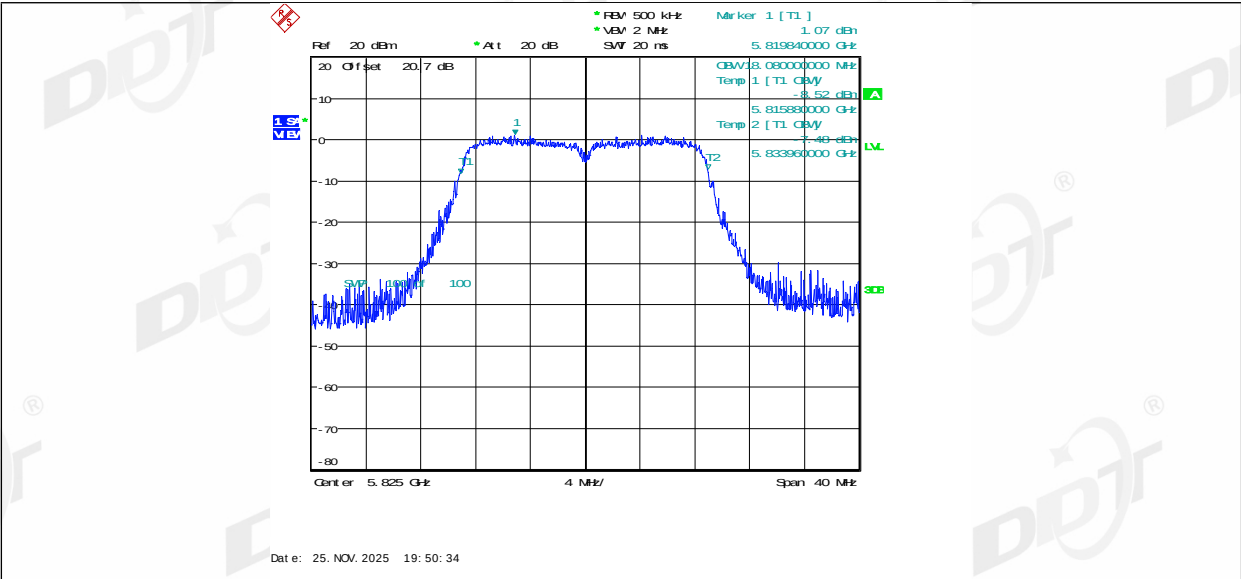


11AC20SISO_Ant1_5280

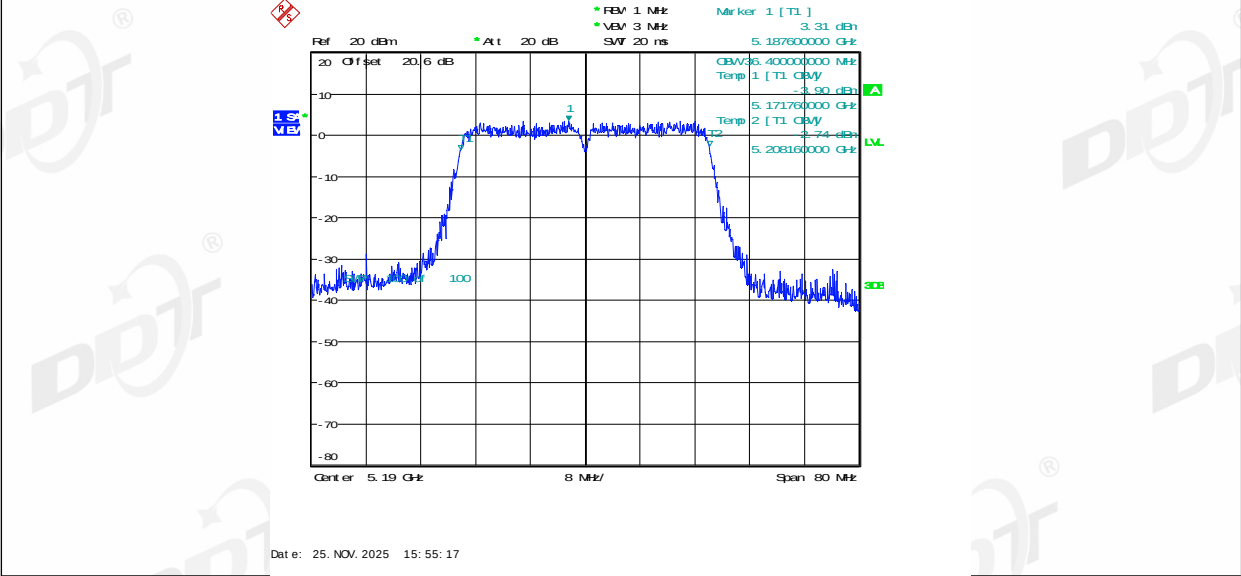


11AC20SISO_Ant1_5320

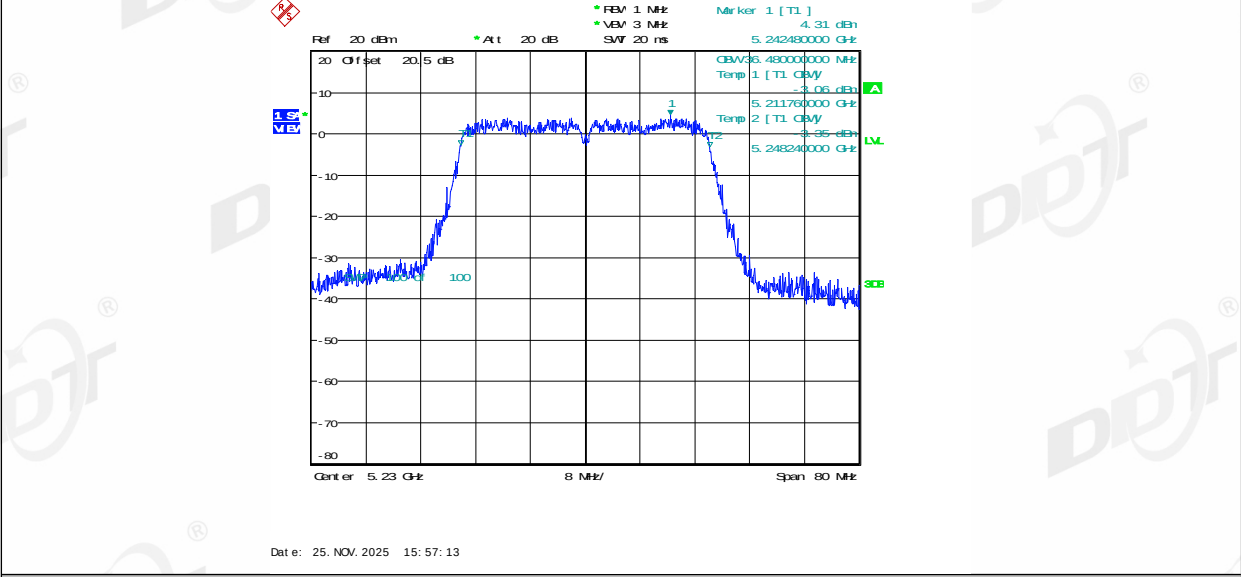




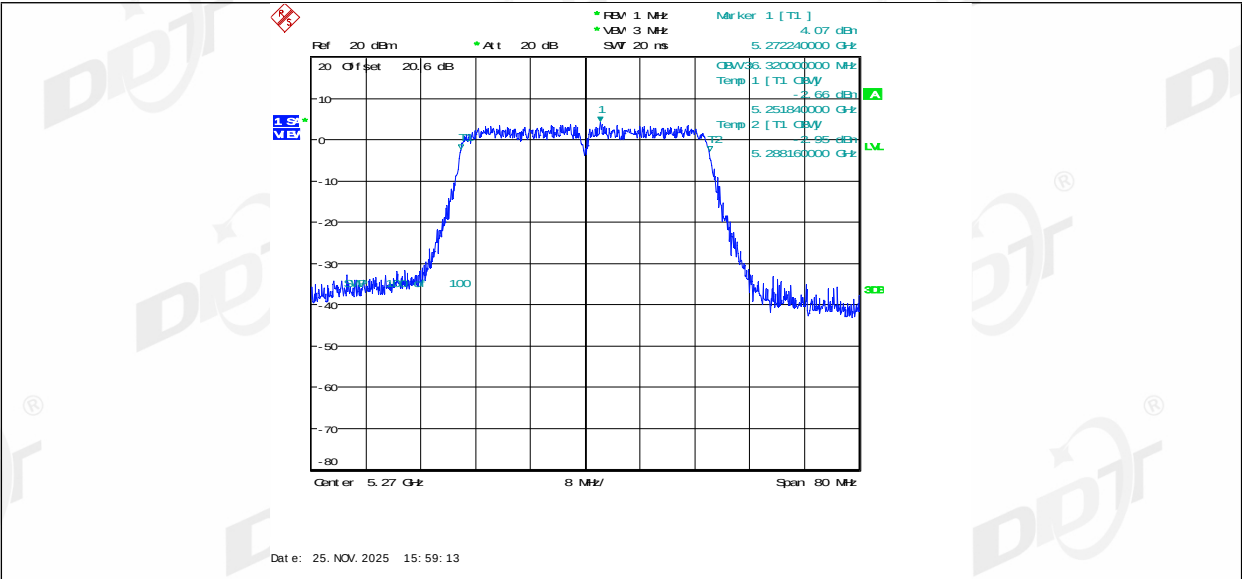
11AC40SISO Ant1 5190



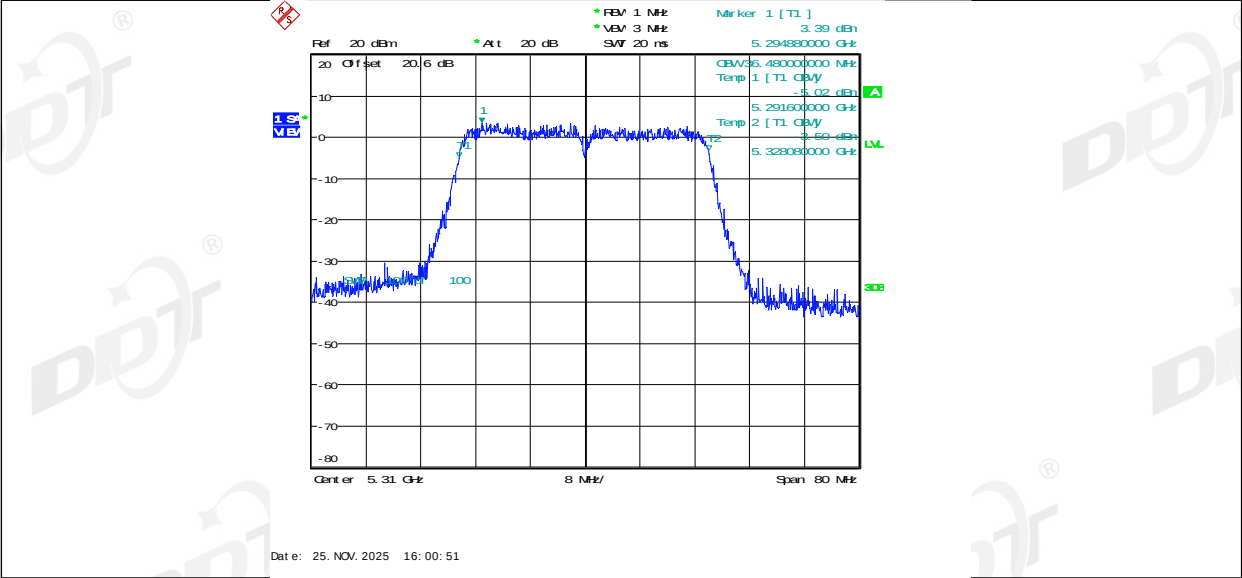
11AC40SISO Ant1 5230



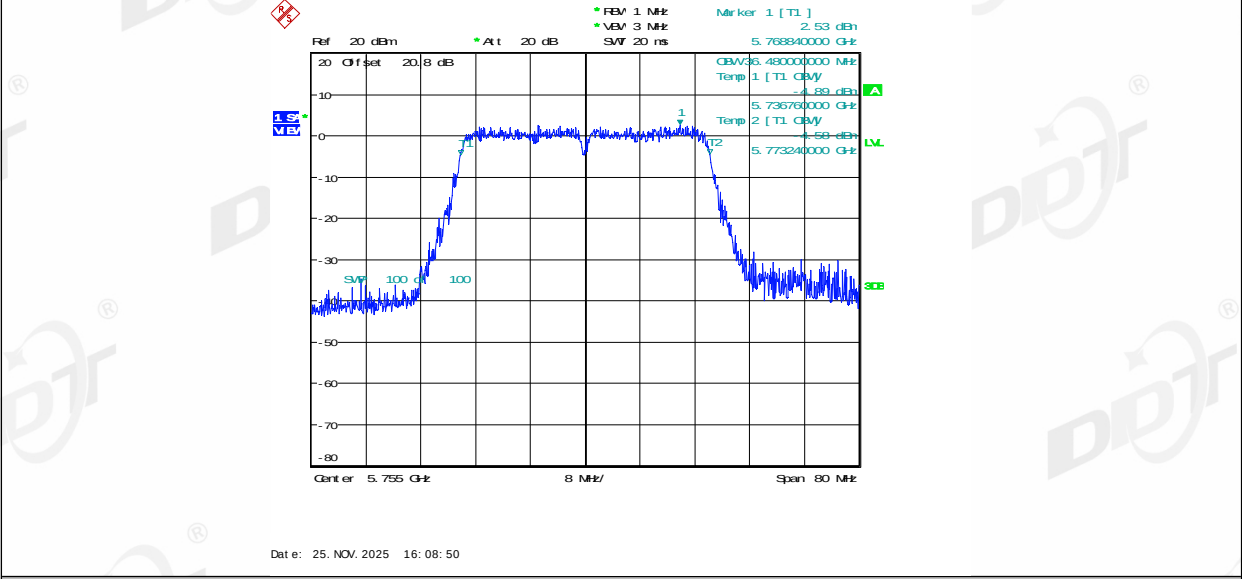
11AC40SISO Ant1 5270



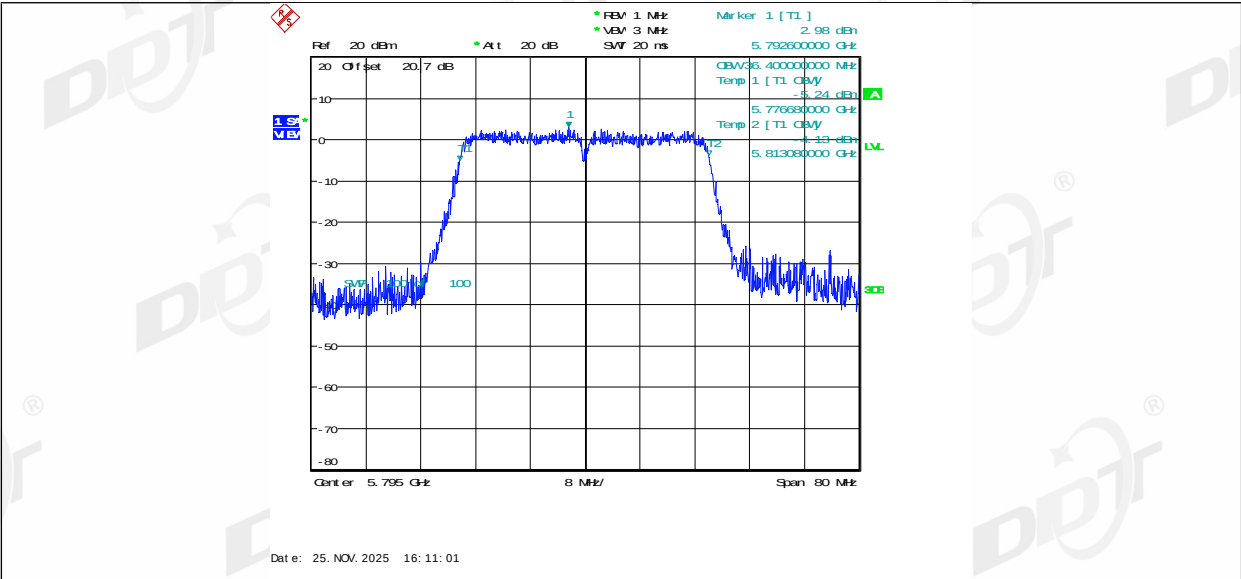
11AC40SISO_Ant1_5310



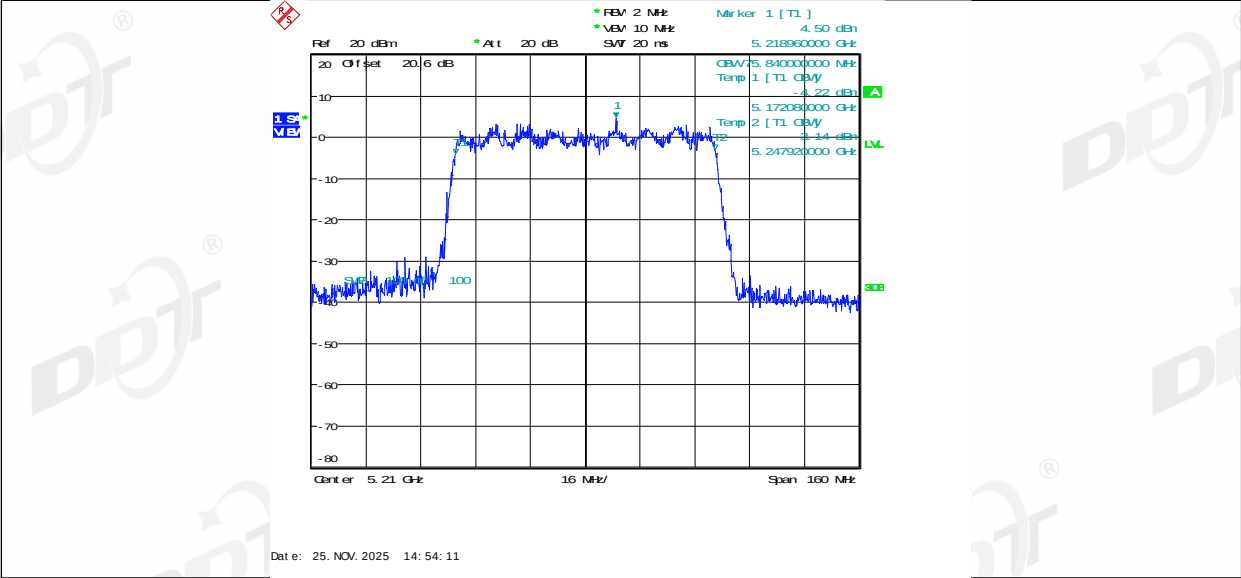
11AC40SISO_Ant1_5755



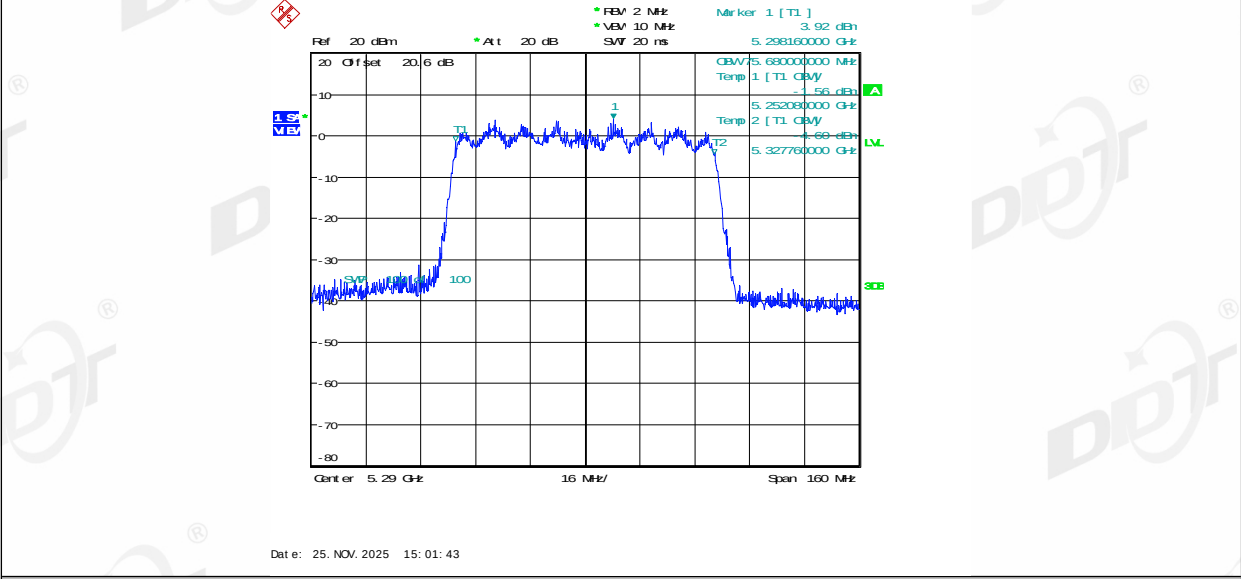
11AC40SISO_Ant1_5795



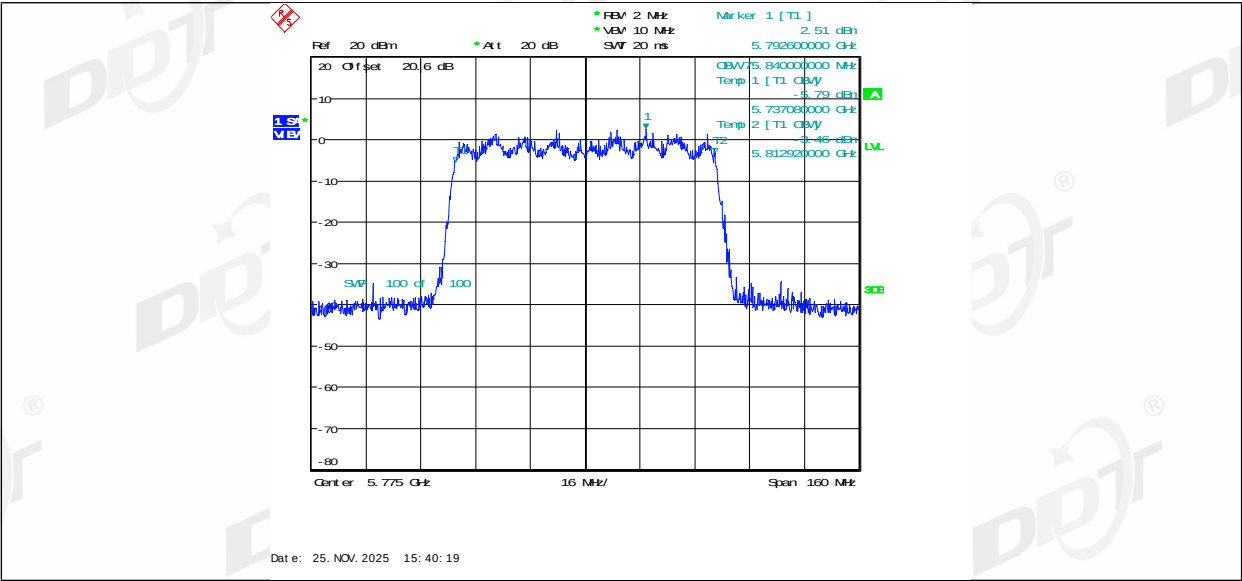
11AC80SISO Ant1 5210



11AC80SISO Ant1 5290

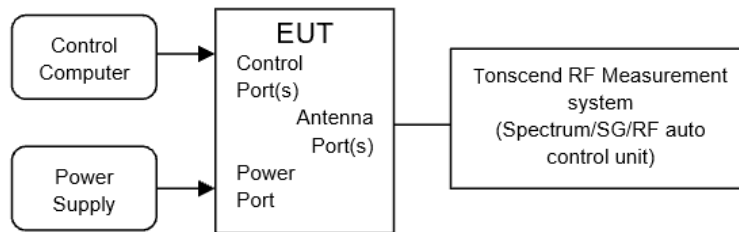


11AC80SISO Ant1 5775



7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

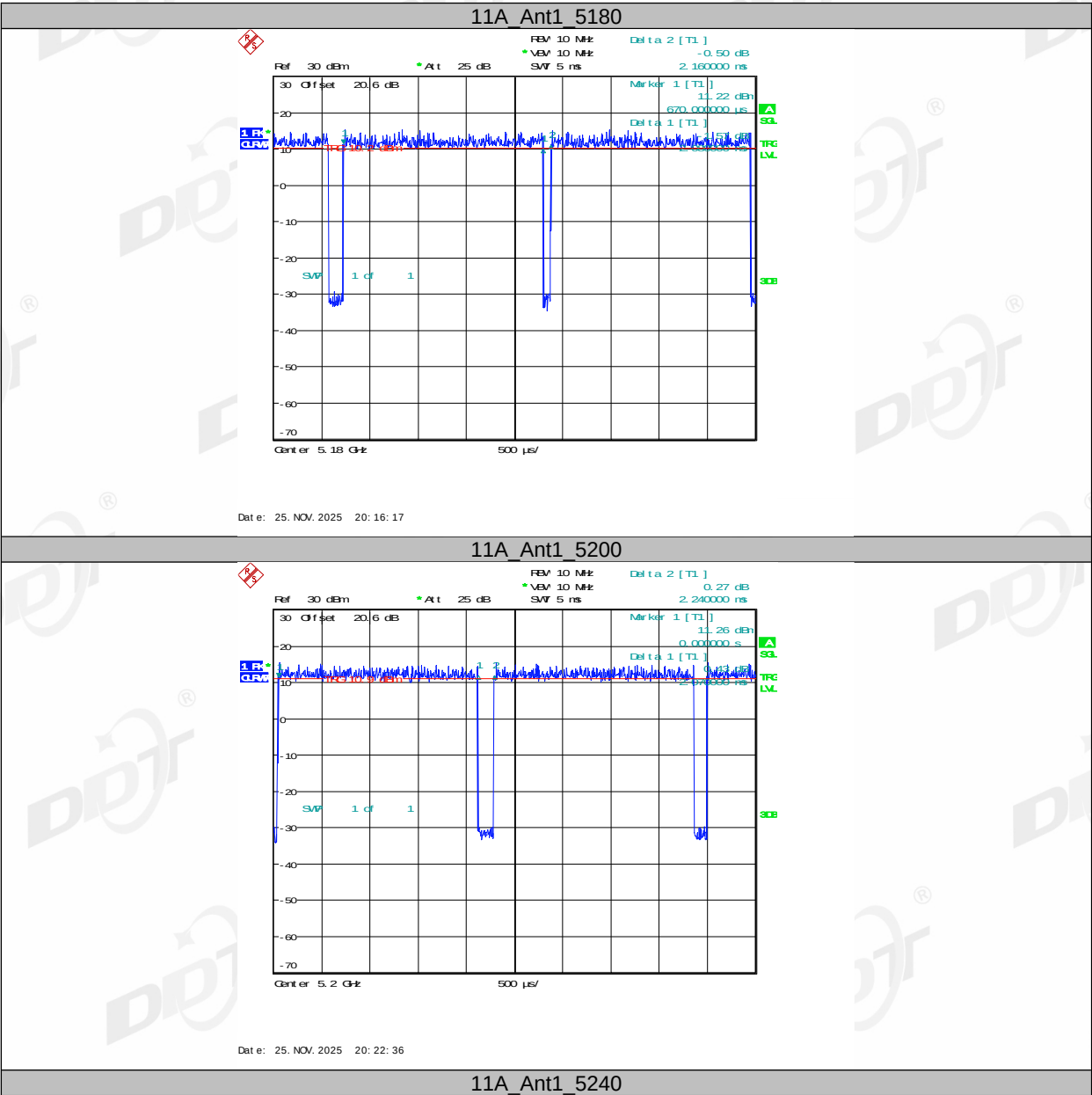
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the middle hopping channel.
Resolution BW: 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:
$$\text{Duty cycle} = \text{Pulse's on time} / \text{Burst cycle}$$

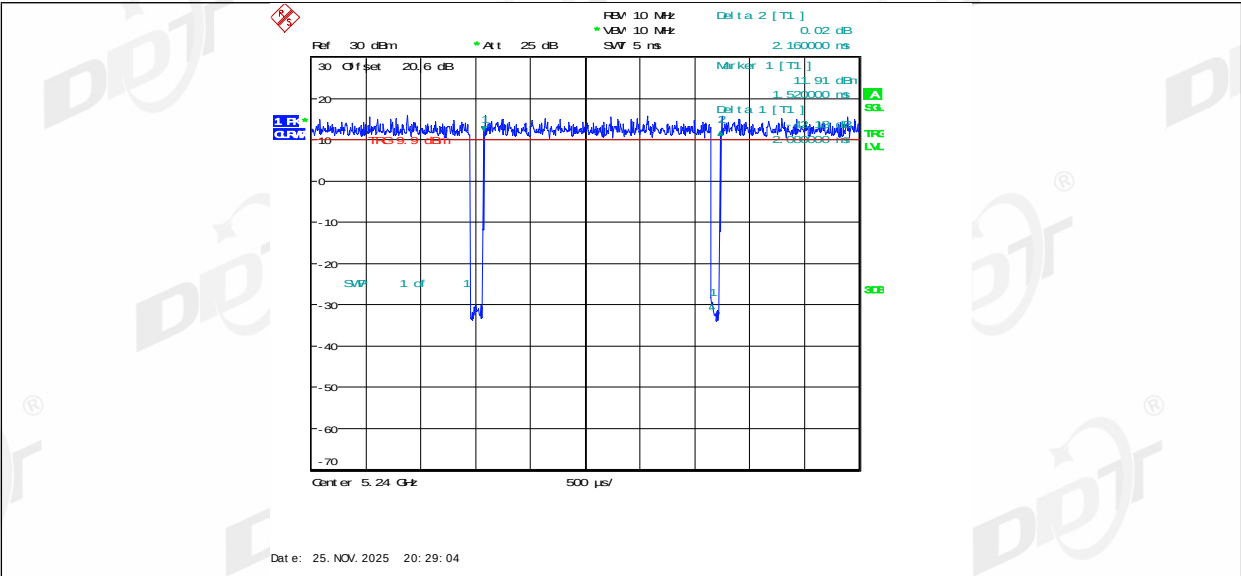
7.4. Test result

Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.2℃,47.1%RH	Test Date:	2025.10.31-2025.12.06
Test Power Supply:	DC 12V	Sample Number:	S25092809-001

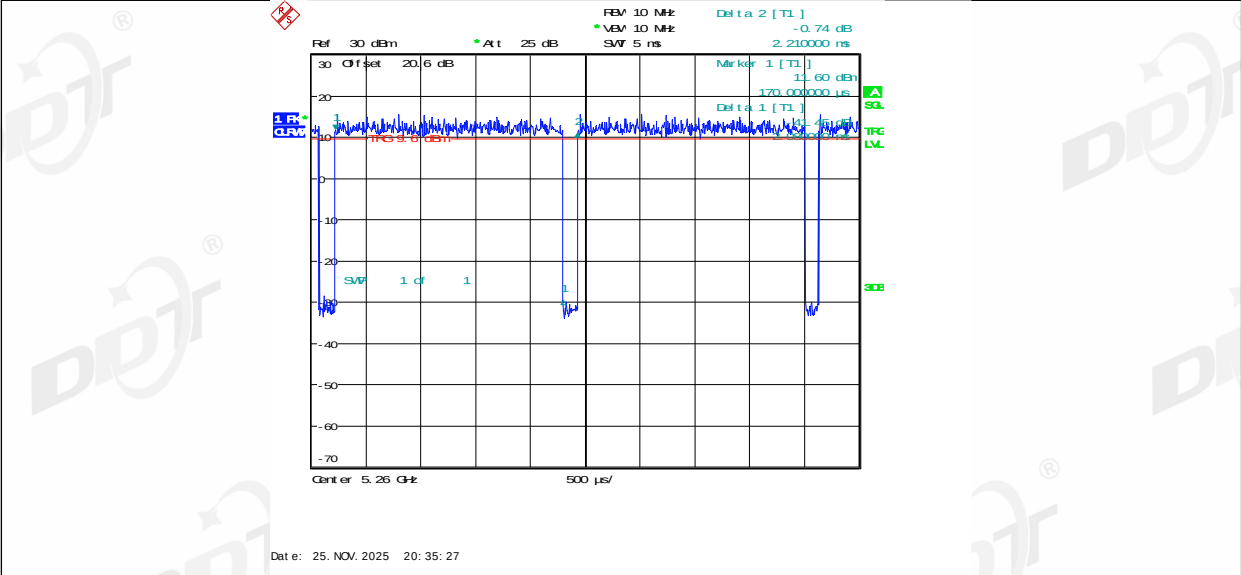
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.08	2.16	96.30
		5200	2.07	2.24	92.41
		5240	2.08	2.16	96.30
		5260	2.08	2.21	94.12
		5280	2.08	2.16	96.30
		5320	2.08	2.18	95.41
		5745	2.07	2.23	92.83
		5785	2.08	2.24	92.86
		5825	2.08	2.14	97.20
11N20SISO	Ant1	5180	1.93	1.99	96.98
		5200	1.93	1.99	96.98
		5240	1.93	2.10	91.90
		5260	1.93	2.06	93.69
		5280	1.93	2.06	93.69
		5320	1.93	2.06	93.69
		5745	1.93	1.98	97.47
		5785	1.93	2.05	94.15
11N40SISO	Ant1	5825	1.93	2.05	94.15
		5190	0.96	1.08	88.89
		5230	0.95	1.06	89.62
		5270	0.95	1.13	84.07
		5310	0.95	1.10	86.36
		5755	0.95	1.04	91.35
11AC20SISO	Ant1	5795	0.95	1.12	84.82
		5180	1.94	2.05	94.63
		5200	1.95	2.06	94.66
		5240	1.94	2.04	95.10
		5260	1.95	1.98	98.48
		5280	1.94	2.02	96.04
		5320	1.94	2.00	97.00
		5745	1.95	2.01	97.01
		5785	1.94	2.07	93.72
11AC40SISO	Ant1	5825	1.94	2.10	92.38
		5190	0.95	1.07	88.79
		5230	0.96	1.13	84.96
		5270	0.96	1.10	87.27
		5310	0.96	1.10	87.27
		5755	0.96	1.05	91.43
11AC80SISO	Ant1	5795	0.96	1.11	86.49
		5210	0.46	0.63	73.02
		5290	0.46	0.62	74.19
		5775	0.46	0.62	74.19

7.5. Test graphs

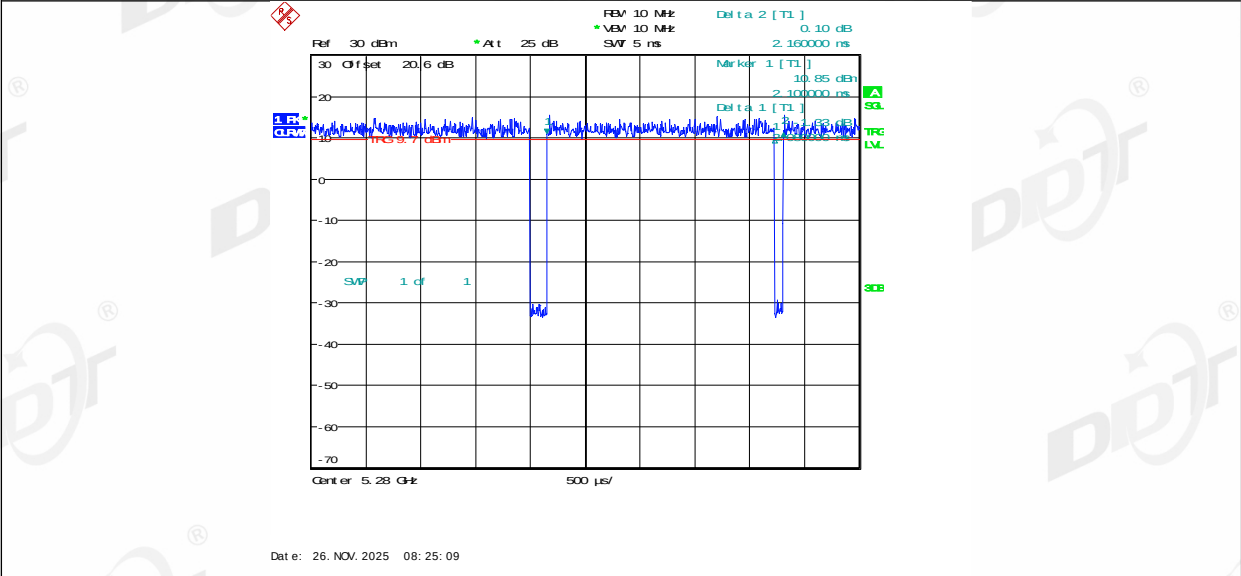




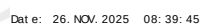
11A_Ant1_5260



11A_Ant1_5280



11A_Ant1_5320

[illegible]

Date: 26. NOV. 2025 09:15:23

REF 30 dBm * At 25 dB

REM 10 MHz * VM 10 MHz Delta 2 [T1] 0.18 dB

SWF 5 ns 2.240000 ns

30 Offset 20.6 dB

Marker 1 [T1] 8.17 dB

220.000000 μs

Delta 1 [T1] -39.94 dB

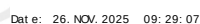
1.0 dB

SWF 1 of 1

Center 5.785 GHz 500 μs/

Dat e: 26. NOV. 2025 09: 22: 27

Page 60 of 195



The screenshot shows a Keysight Spectrum Analyzer interface. The main display area shows a signal spectrum with two prominent deep nulls. The horizontal axis is labeled 'Center 5.18 GHz' and the vertical axis is labeled '500 MHz'. The signal level is approximately -10 dBm. The nulls are labeled with '1' and '2' in green. The background is a grid. The top of the screen displays various measurement parameters: 'Ref 30 dBm', 'Att 25 dB', 'RBW 10 MHz', 'VBW 10 MHz', 'SMT 5 ns', 'Delta 2 [T1] -0.11 dB', and '1.990000 ns'. The bottom of the screen shows '1 P' and 'CURV' in blue. The right side of the screen has a vertical bar with 'XA', 'SA', 'TR', and 'LM' in green. The bottom right corner has '90' in green.

Date: 25. NOV. 2025 19:52:57

RF dBm

RBW 10 MHz Delta 2 [T1] -0.29 dB
 VBW 10 MHz
 S/VF 5 ns A/T 25 dB 1.990000 ns

30 Off set 20.6 dB

1 12

Marker 1 [T1] 11.64 dB 1.180000 ns

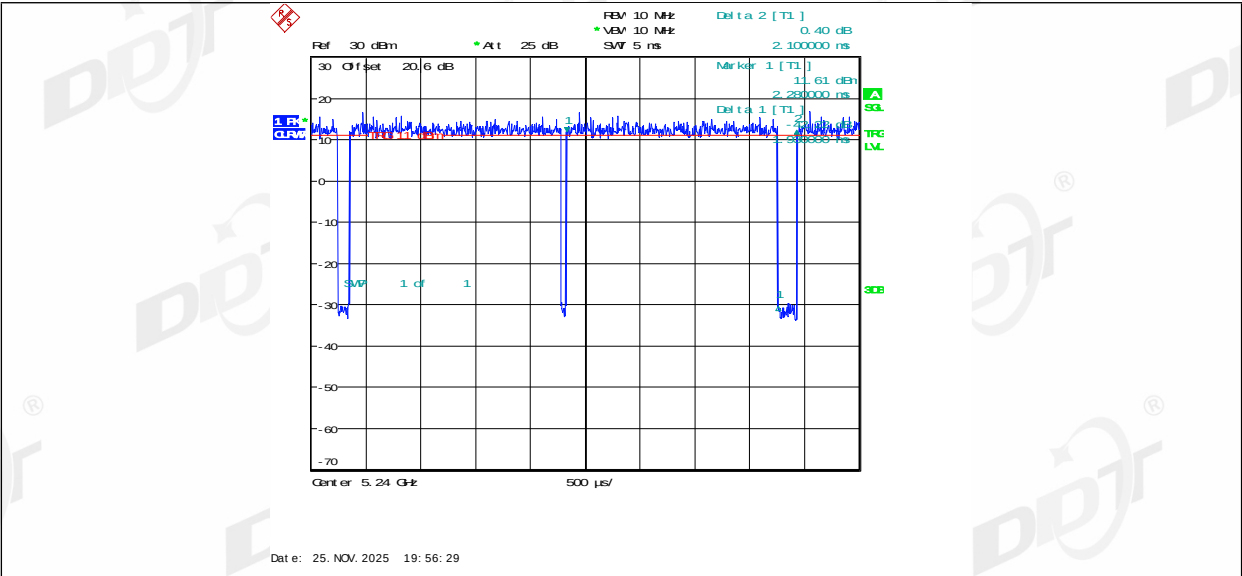
Delta 1 [T1] 11.67 dB

1 12

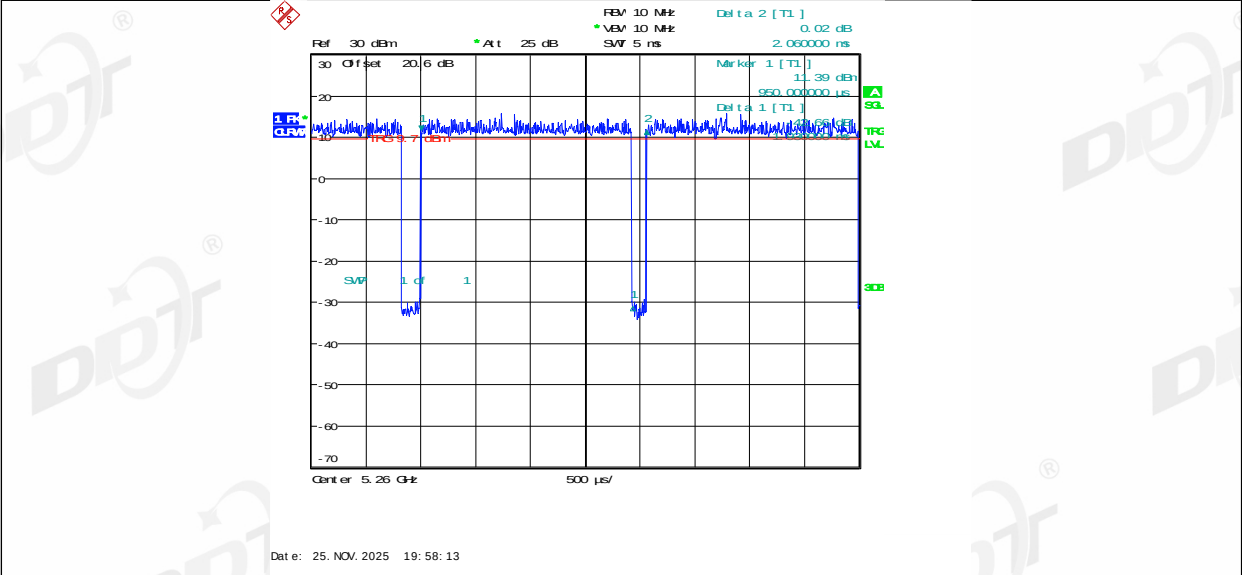
Center 5.2 GHz 500 μs

Date: 25. NOV. 2025 19:54:45

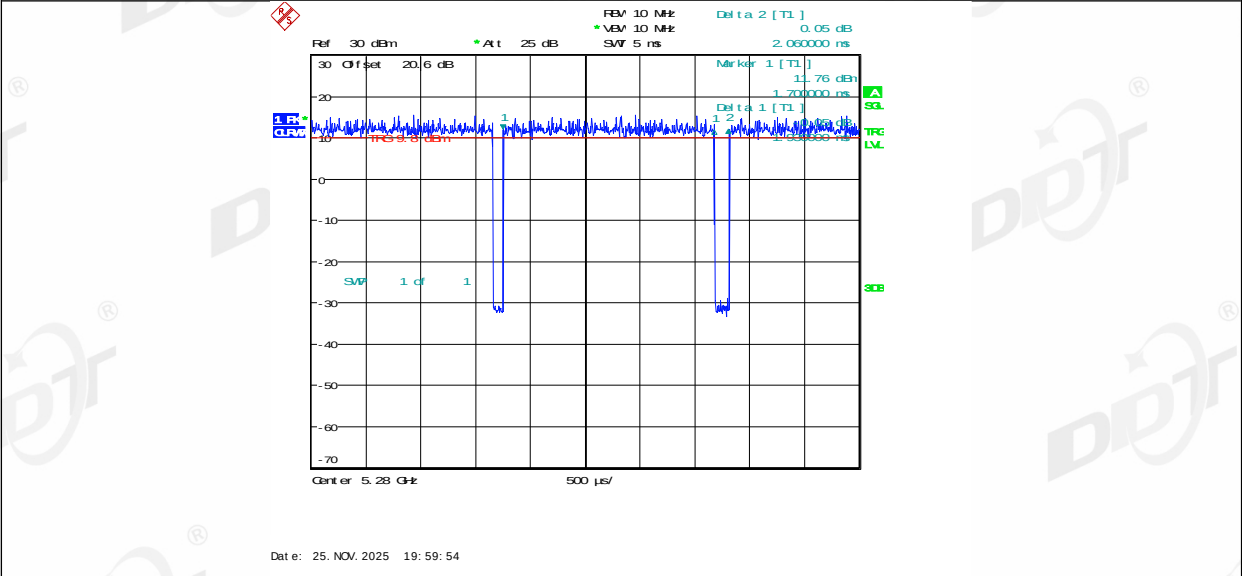
11N20SISO Ant1 5240



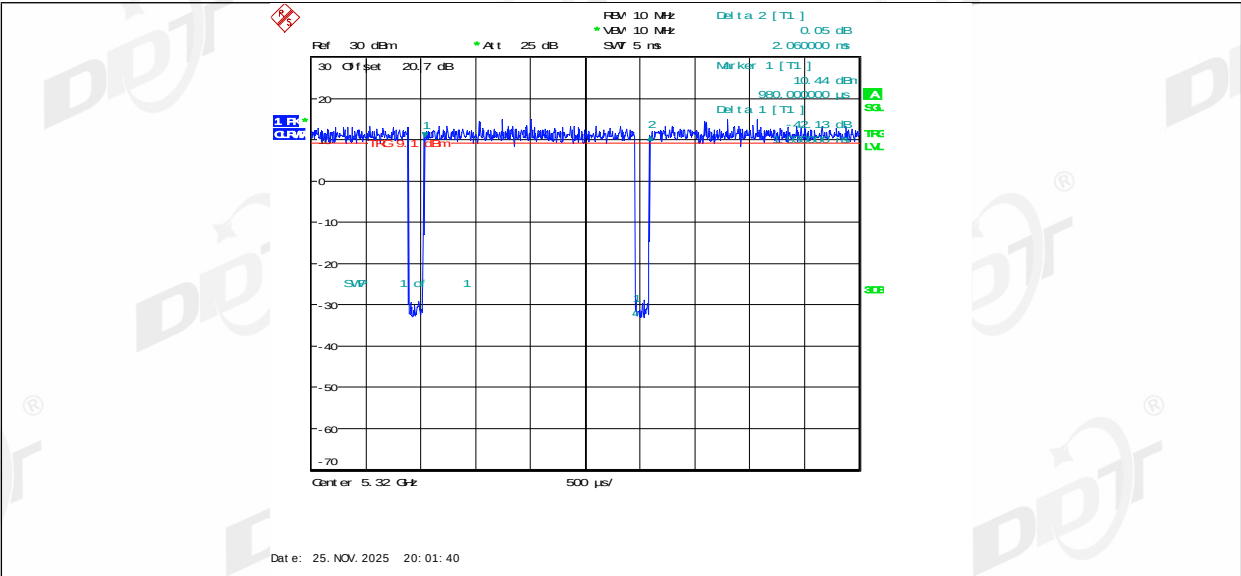
11N20SISO_Ant1_5260



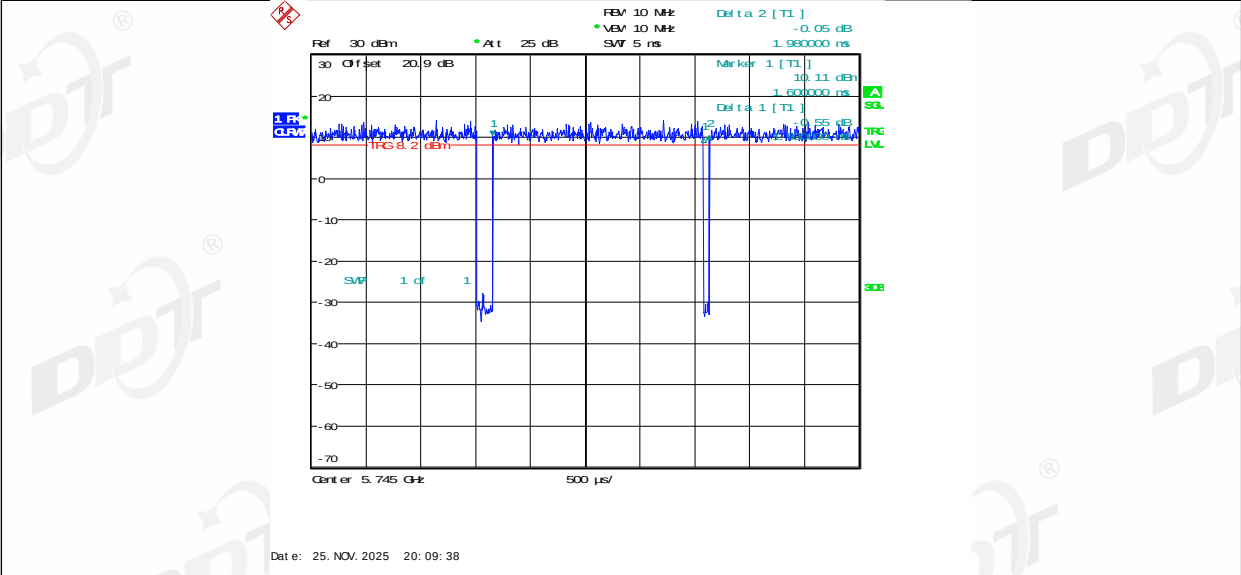
11N20SISO_Ant1_5280



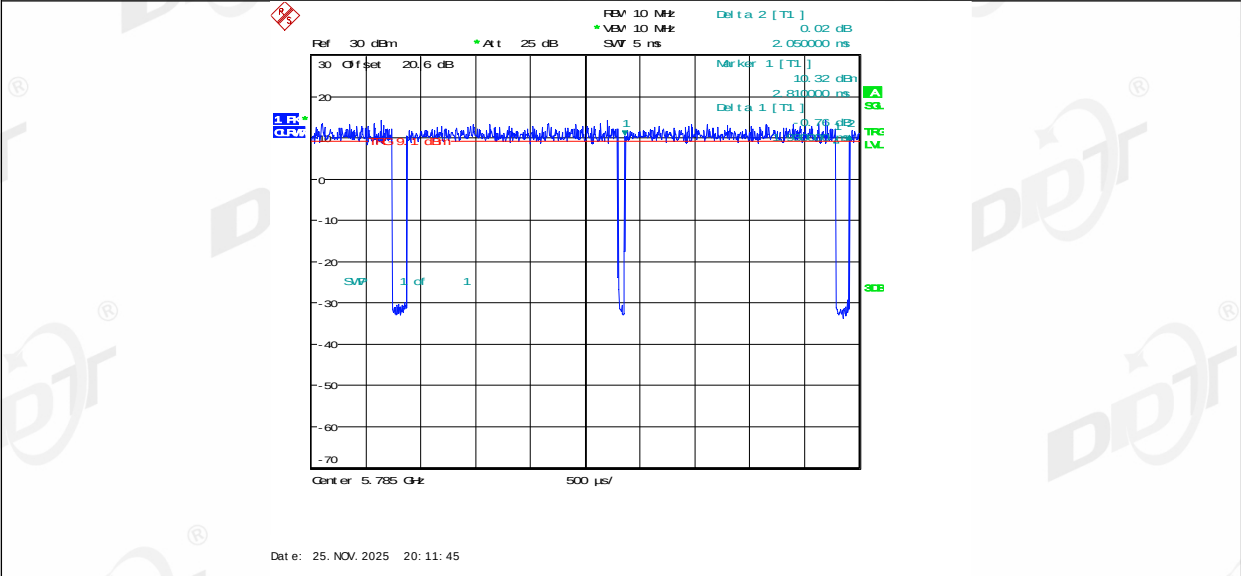
11N20SISO_Ant1_5320



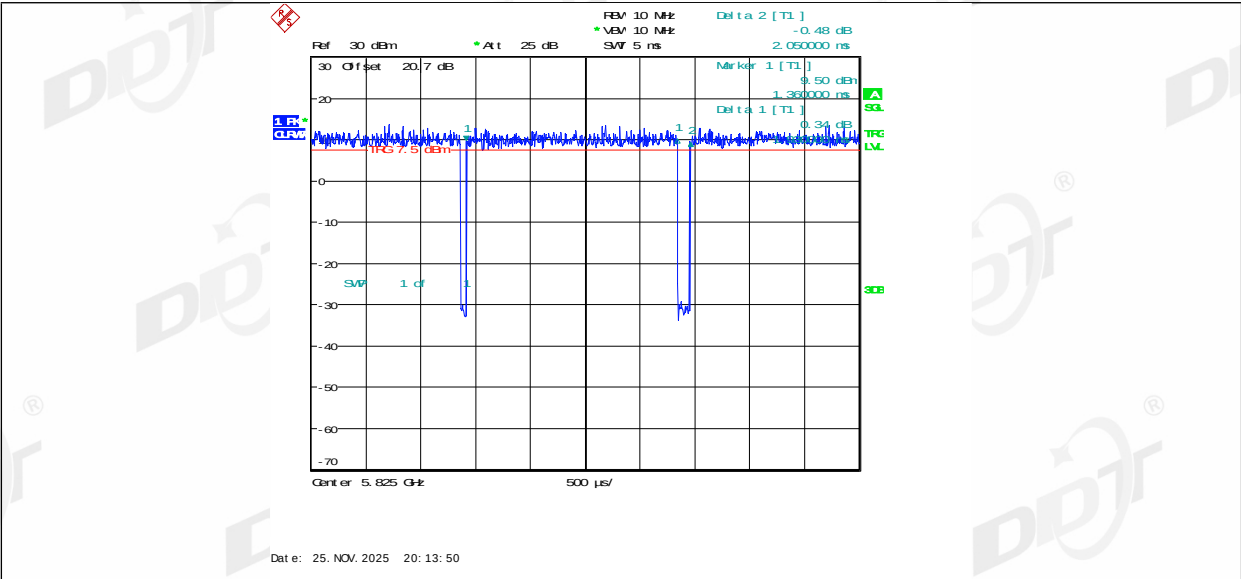
11N20SISO_Ant1_5745



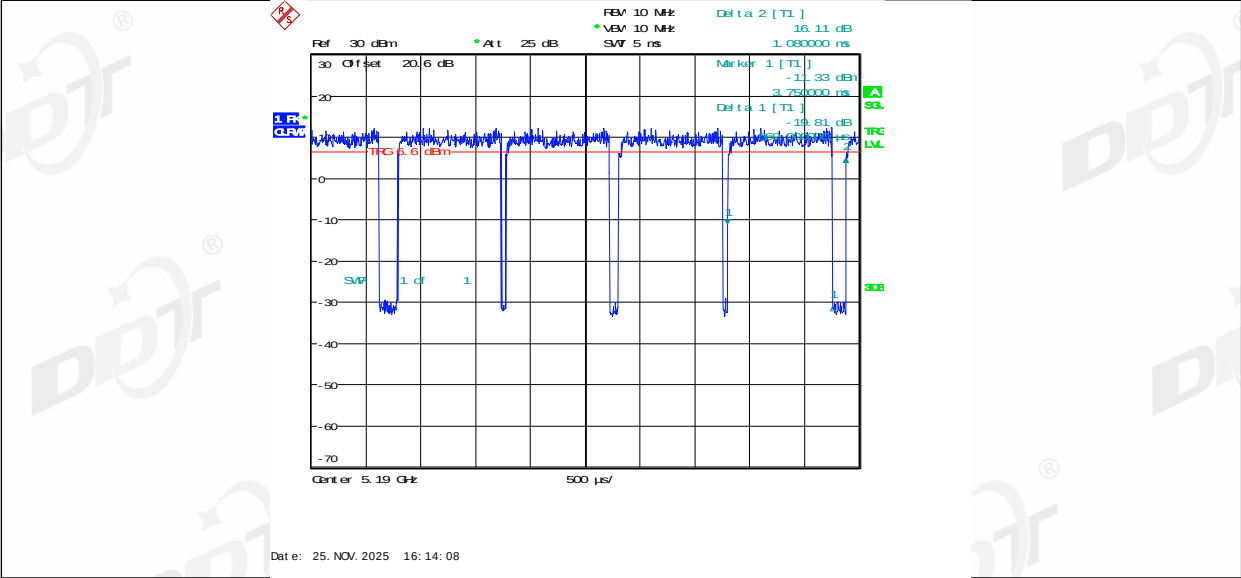
11N20SISO_Ant1_5785



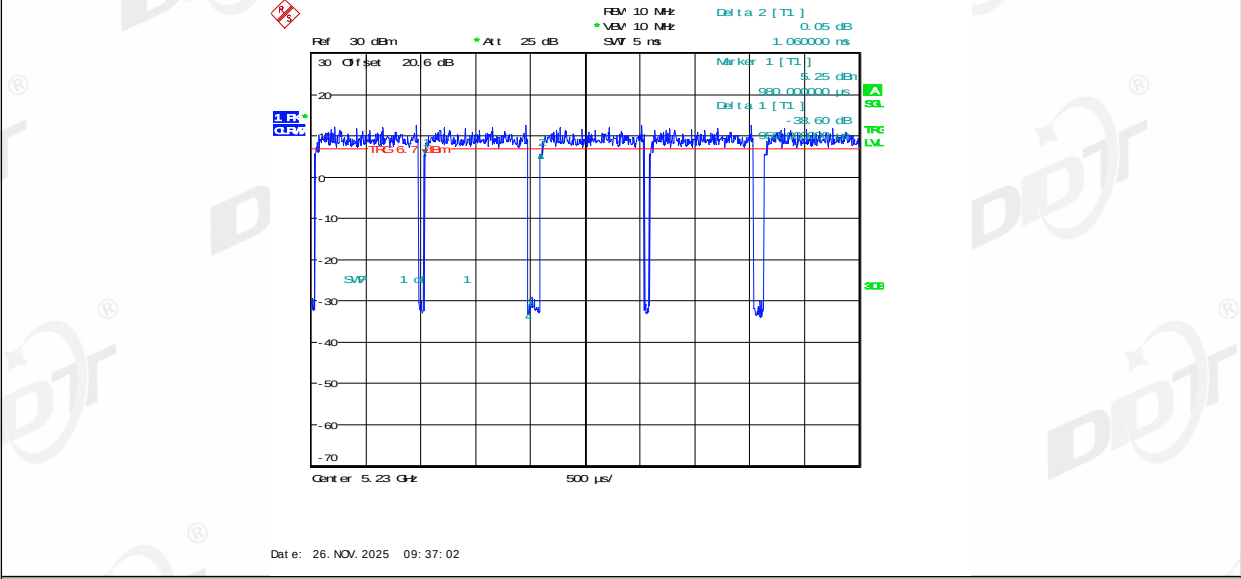
11N20SISO_Ant1_5825



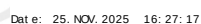
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



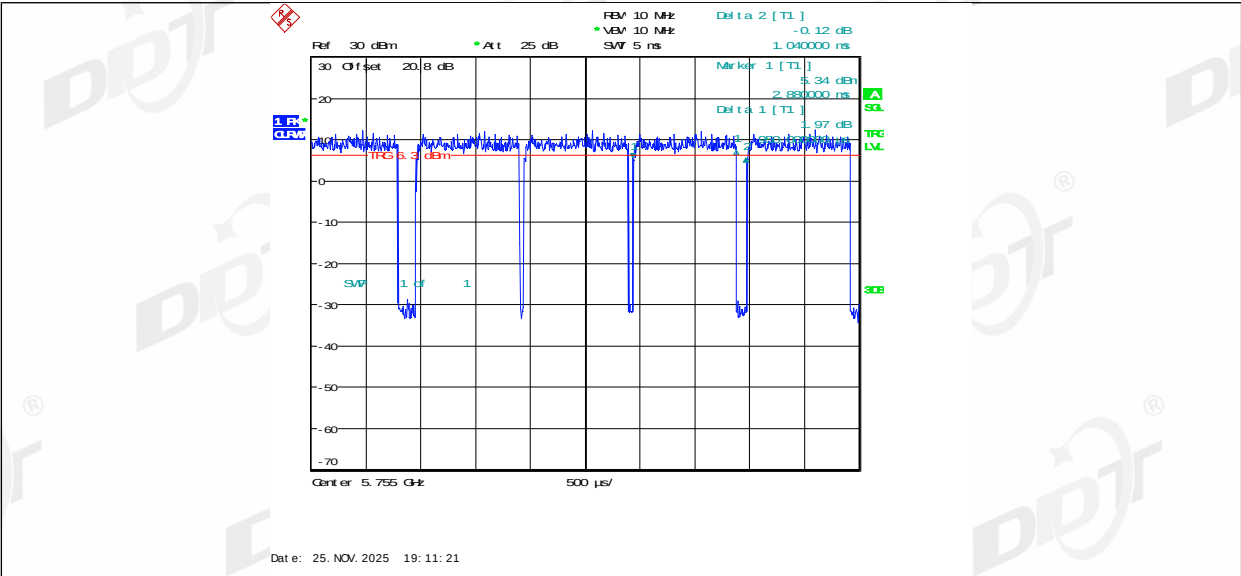
11N40SISO_Ant1_5270

[illegible]

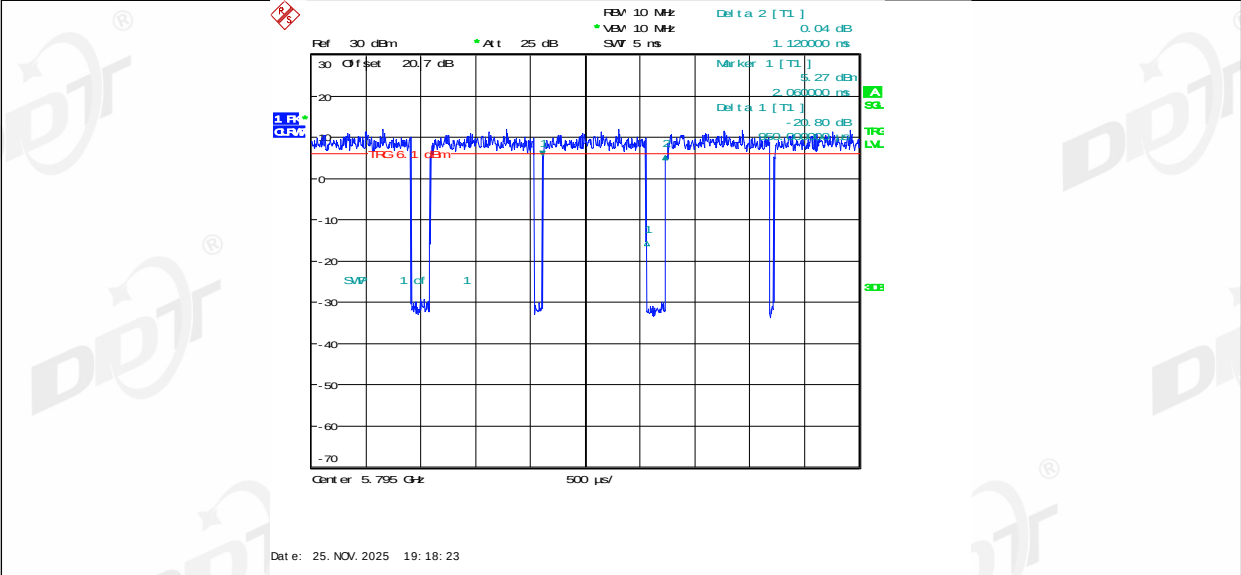
Date: 25. NOV. 2025 16:34:14

Dat e: 25. NOV. 2025 16: 41: 30

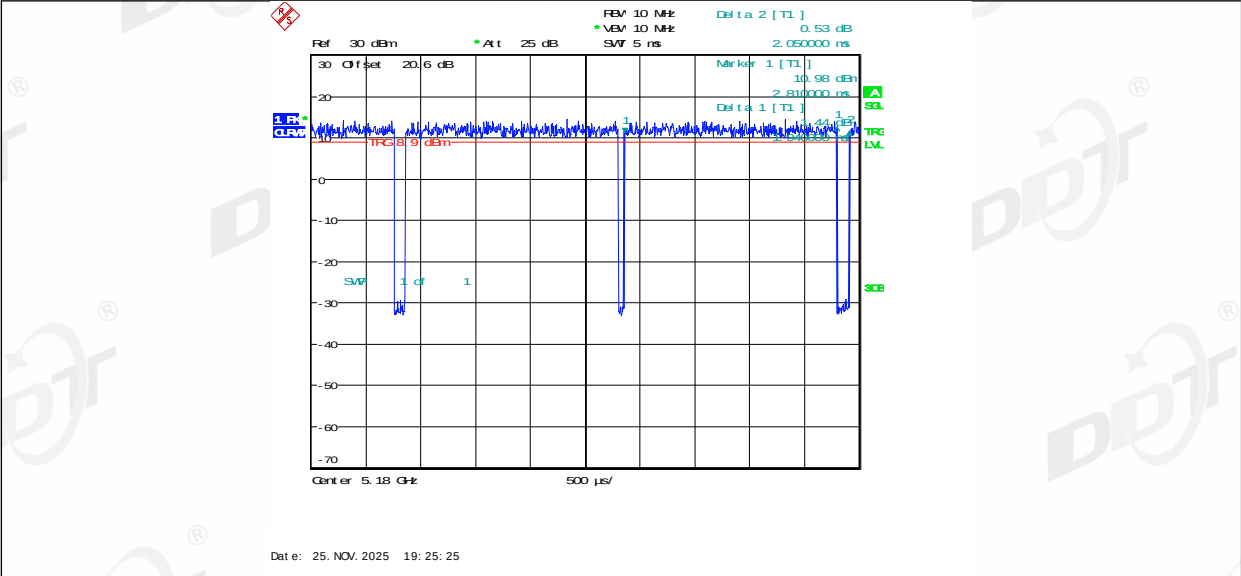
Page 65 of 195



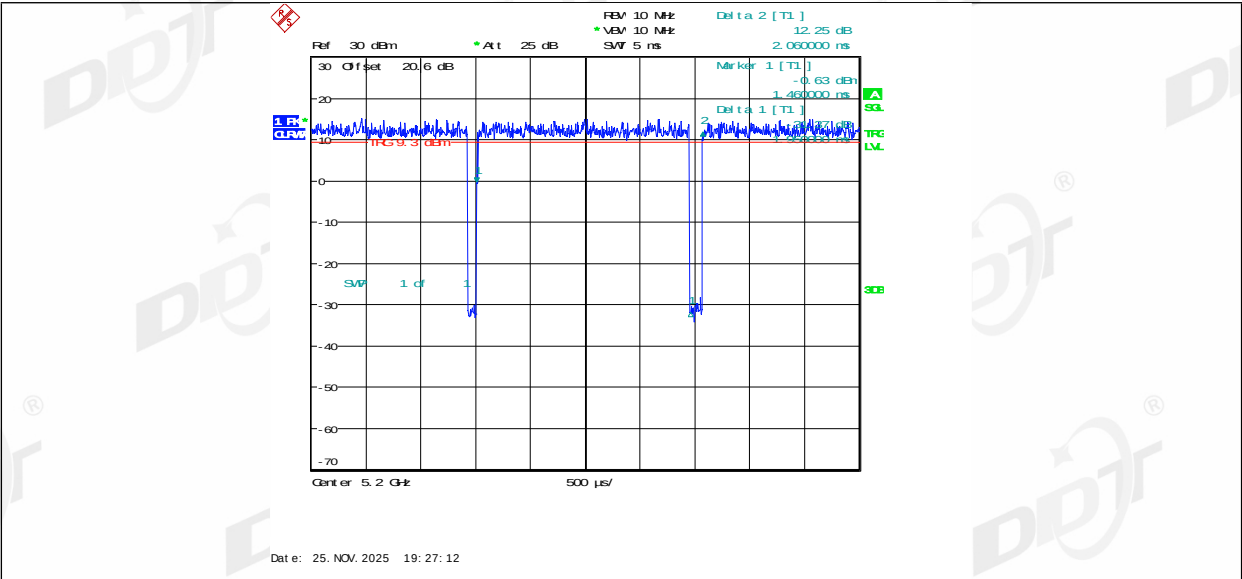
11N40SISO Ant1 5795



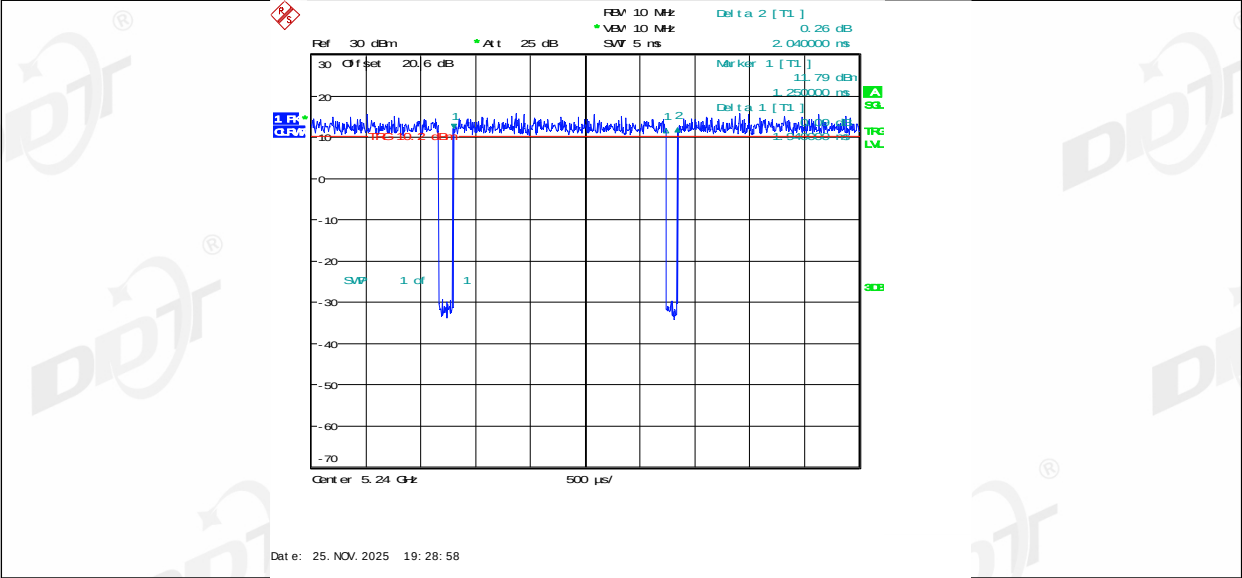
11AC20SISO Ant1 5180



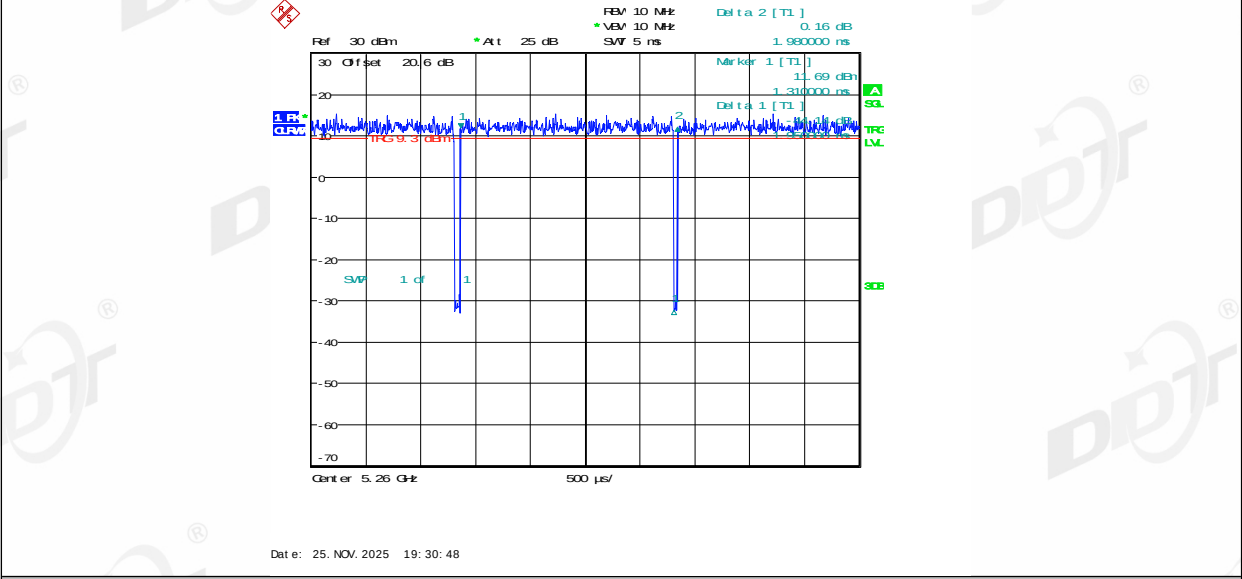
11AC20SISO Ant1 5200



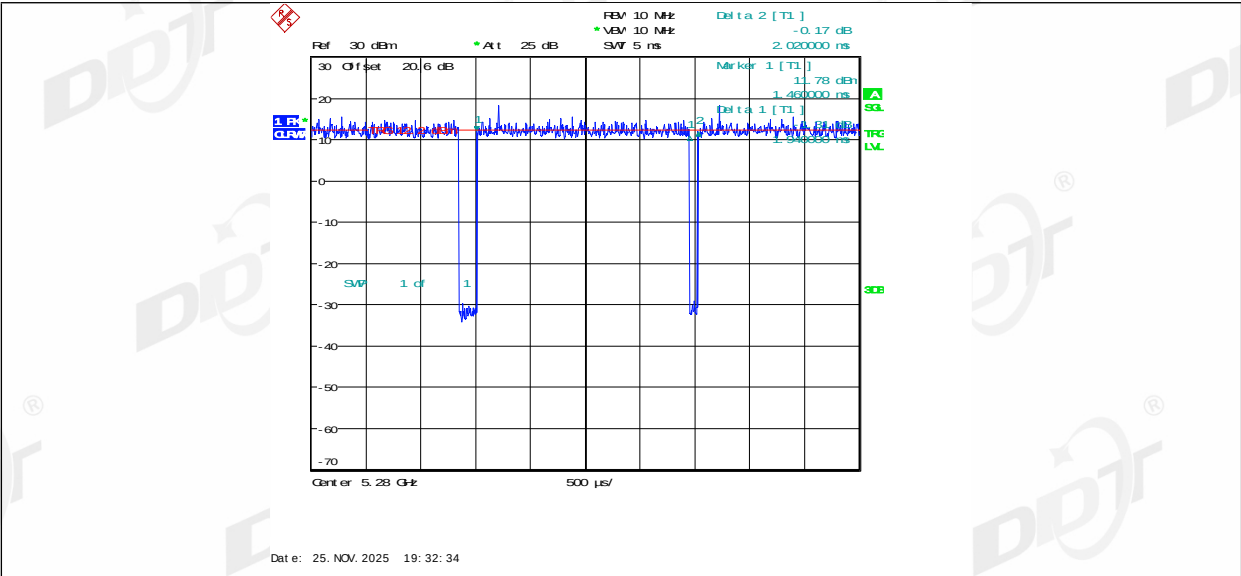
11AC20SISO_Ant1_5240



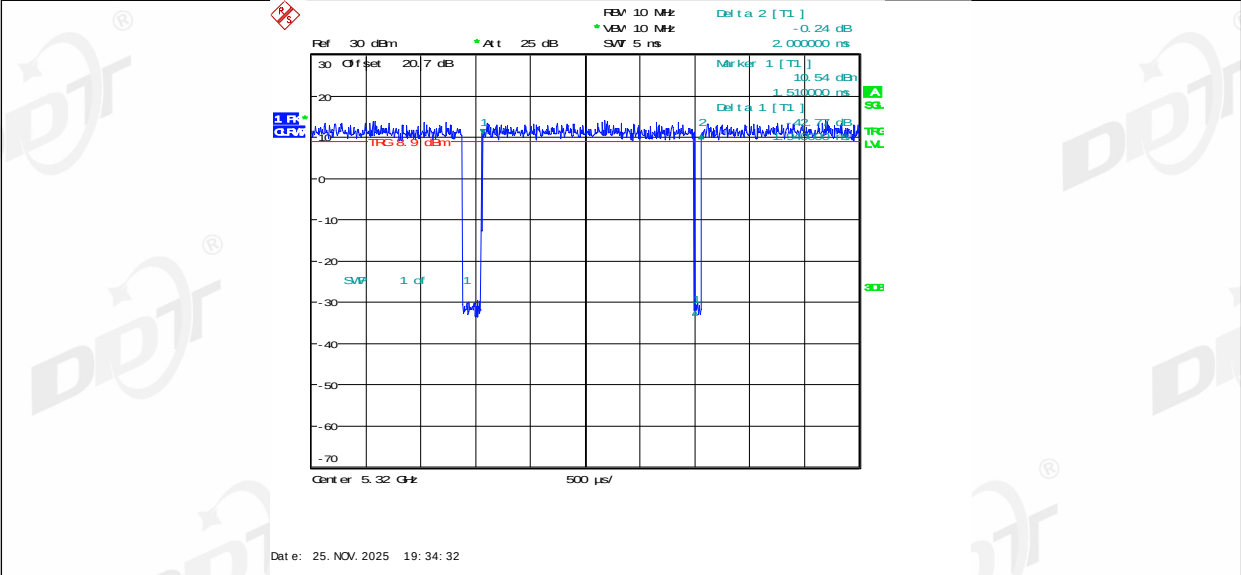
11AC20SISO_Ant1_5260



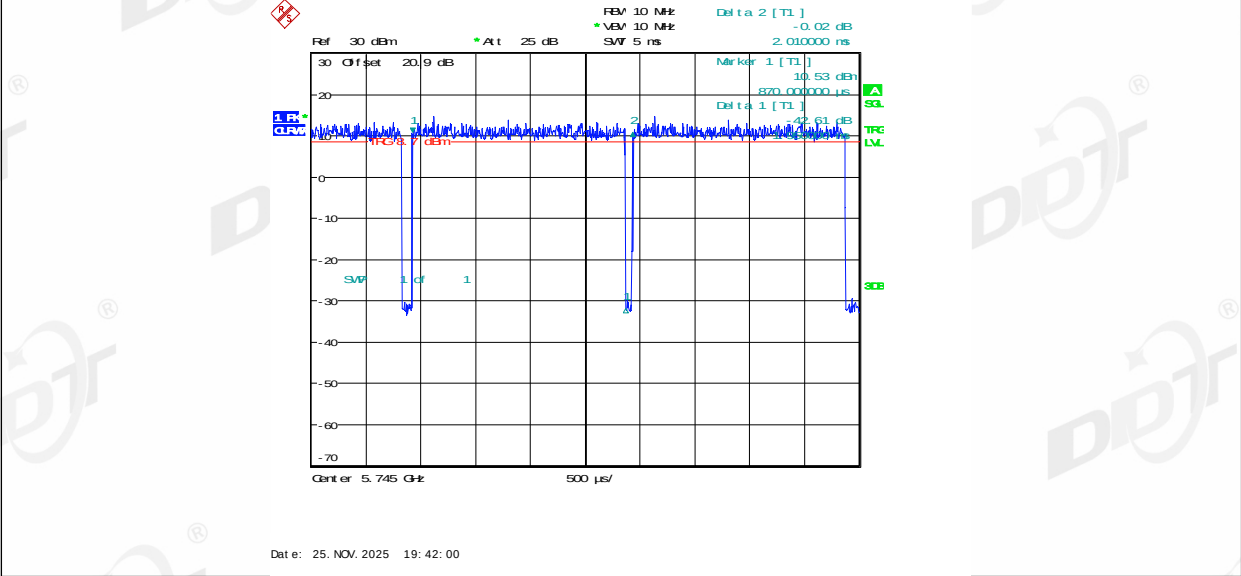
11AC20SISO_Ant1_5280



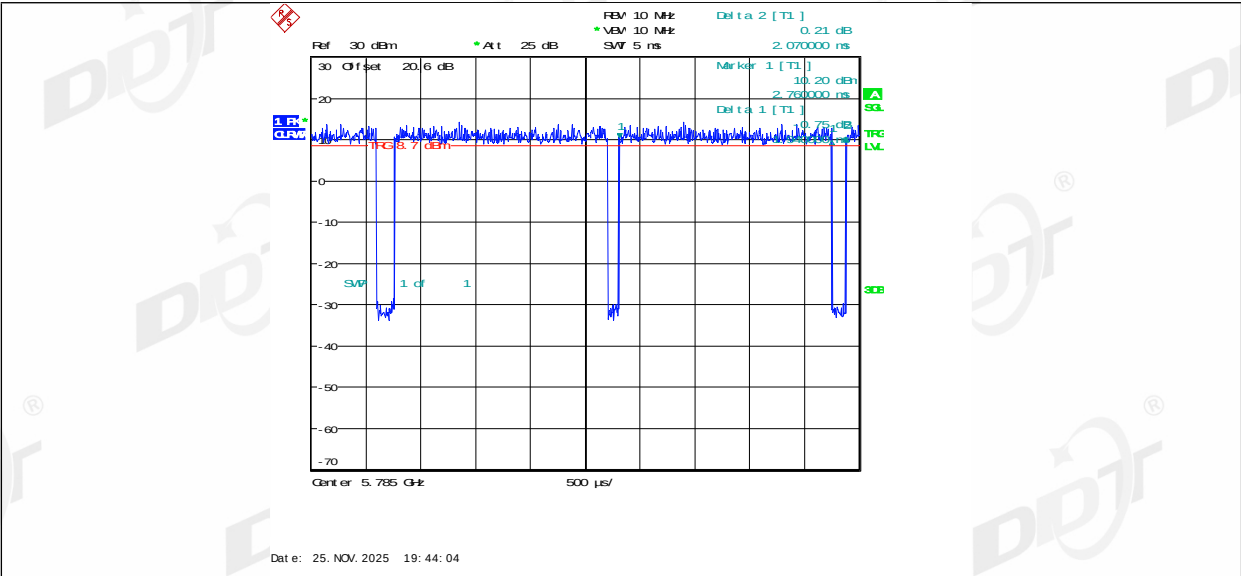
11AC20SISO_Ant1_5320



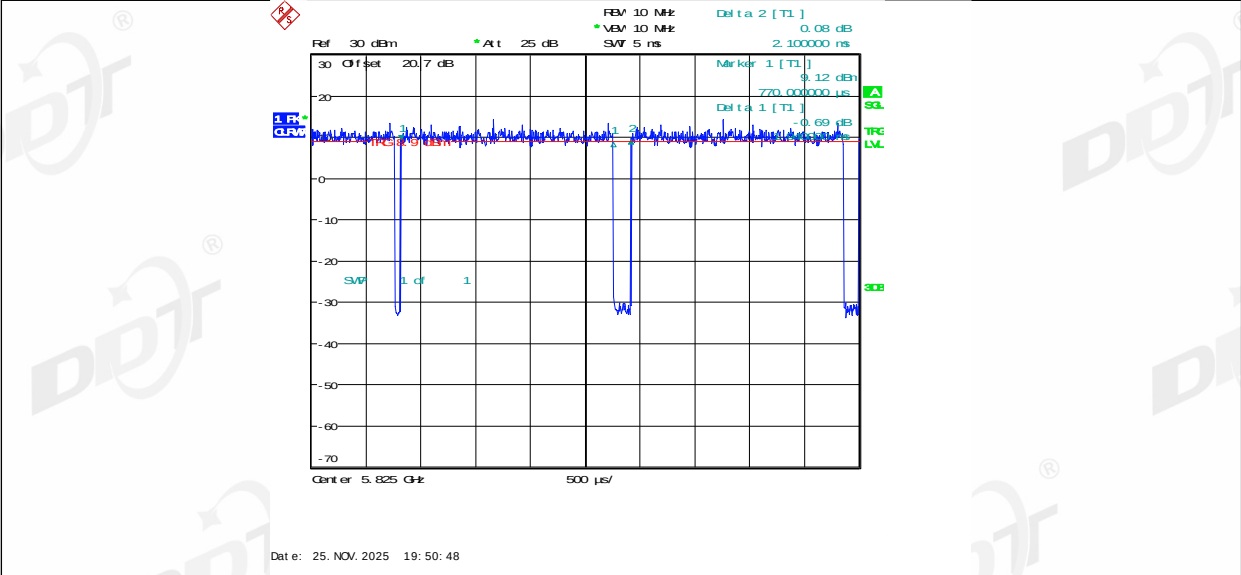
11AC20SISO_Ant1_5745



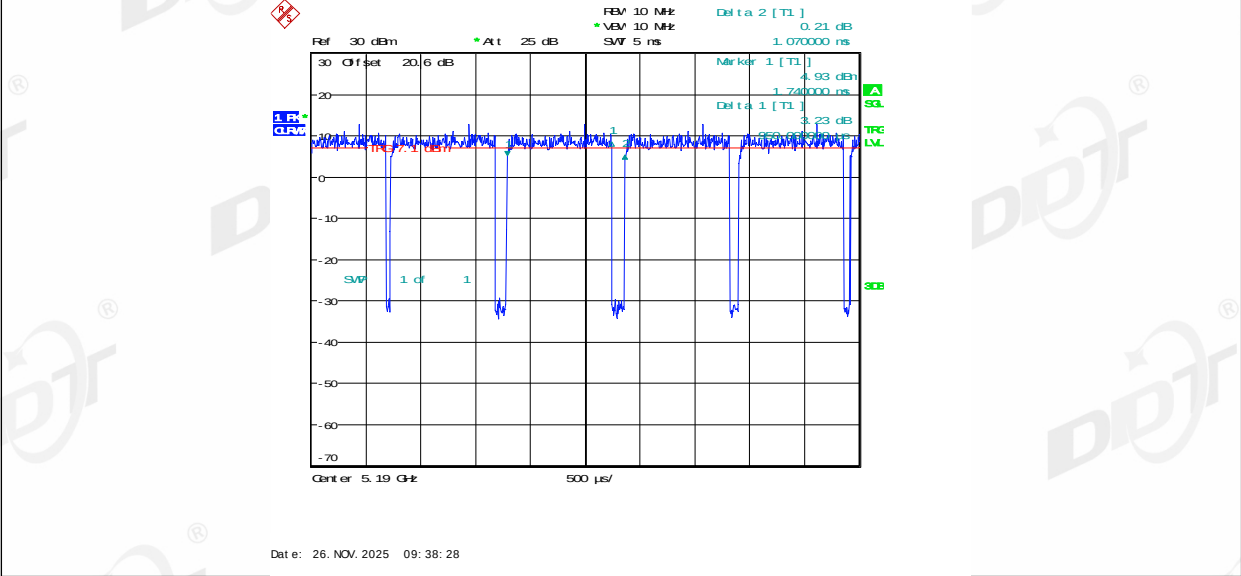
11AC20SISO_Ant1_5785



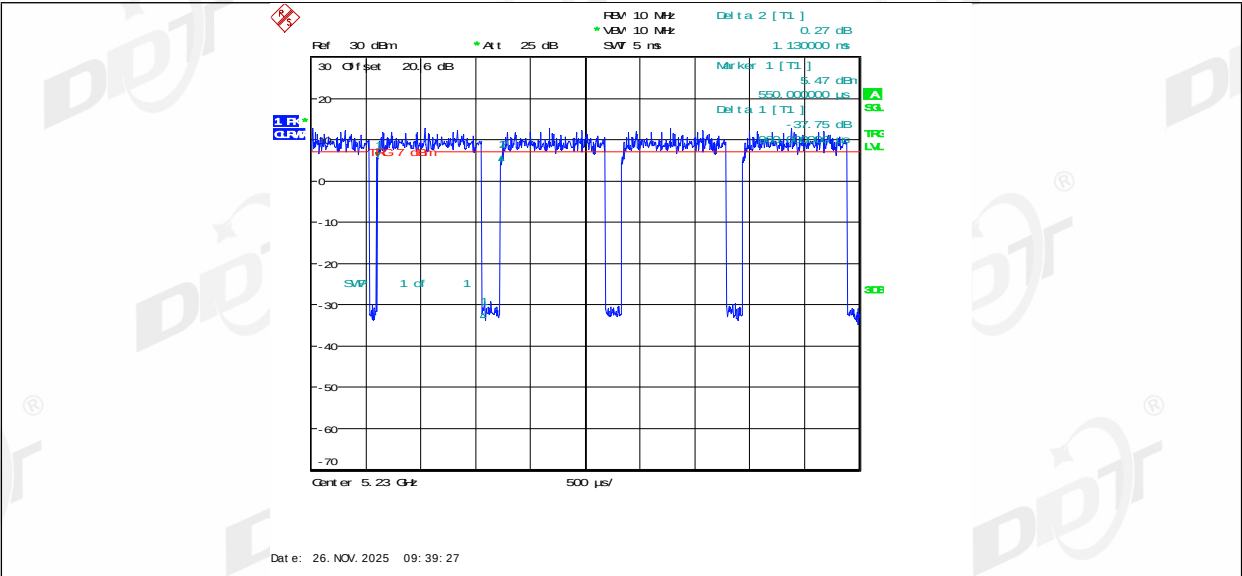
11AC20SISO Ant1 5825



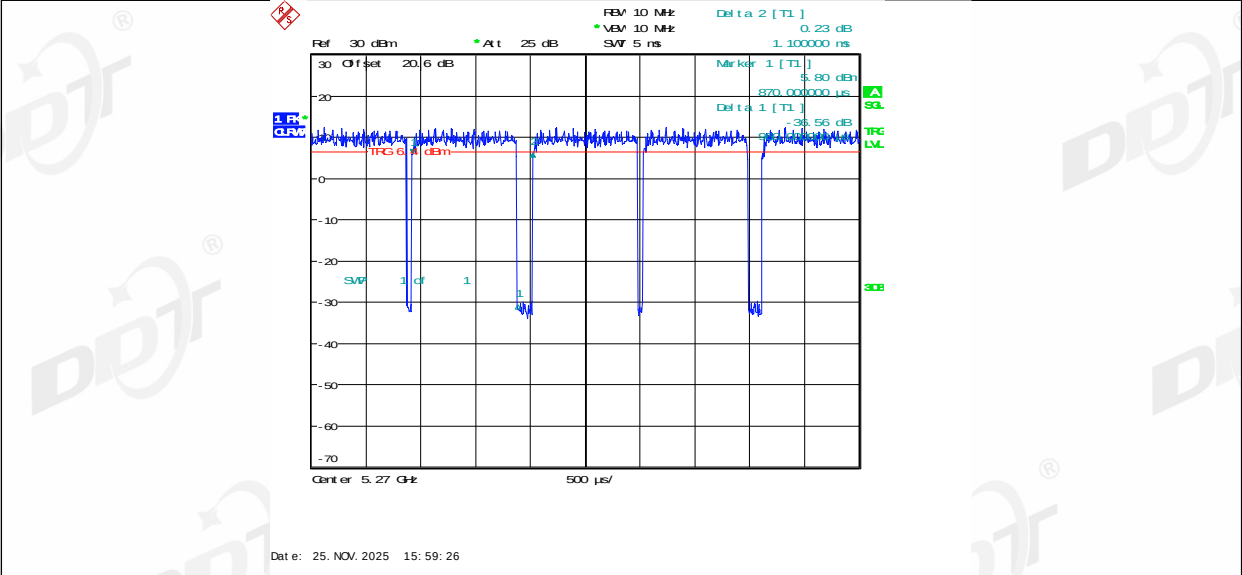
11AC40SISO Ant1 5190



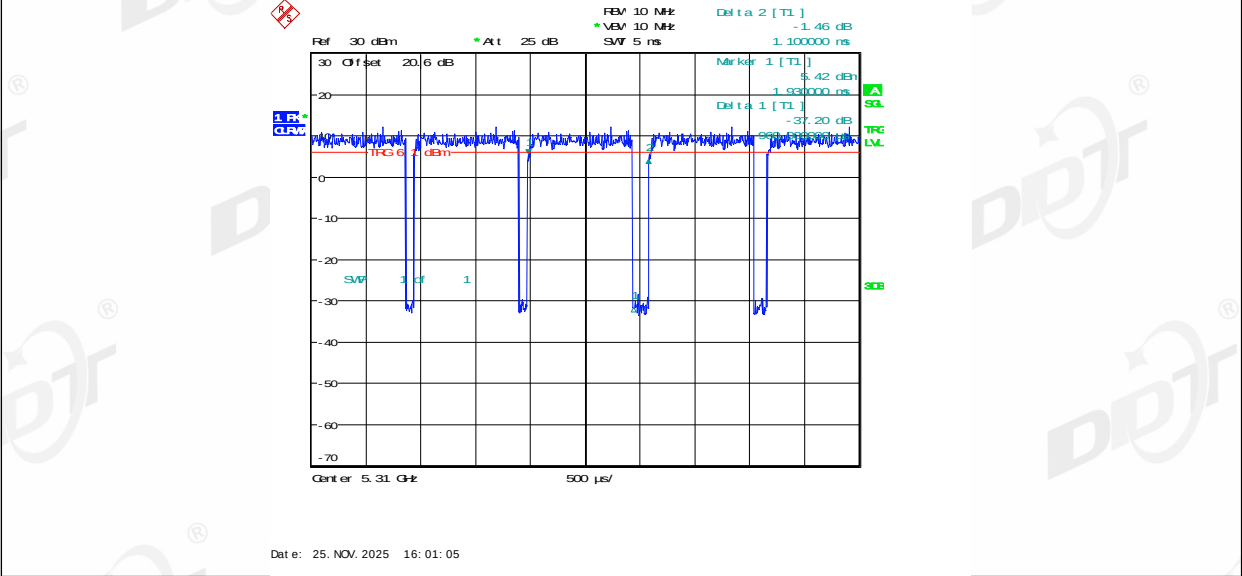
11AC40SISO Ant1 5230



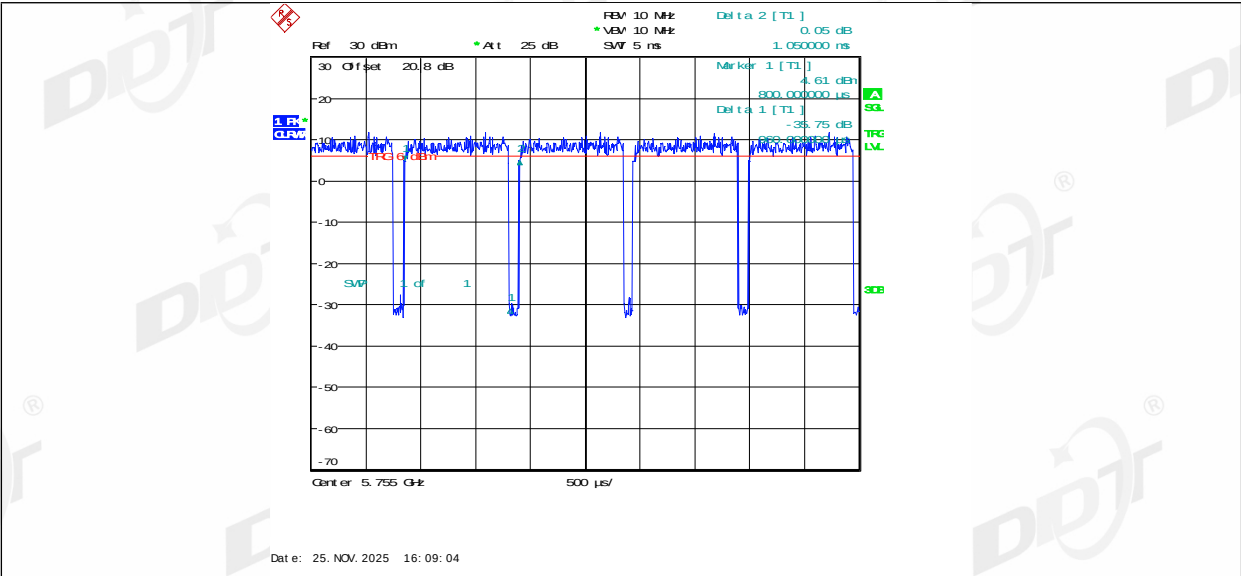
11AC40SISO_Ant1_5270



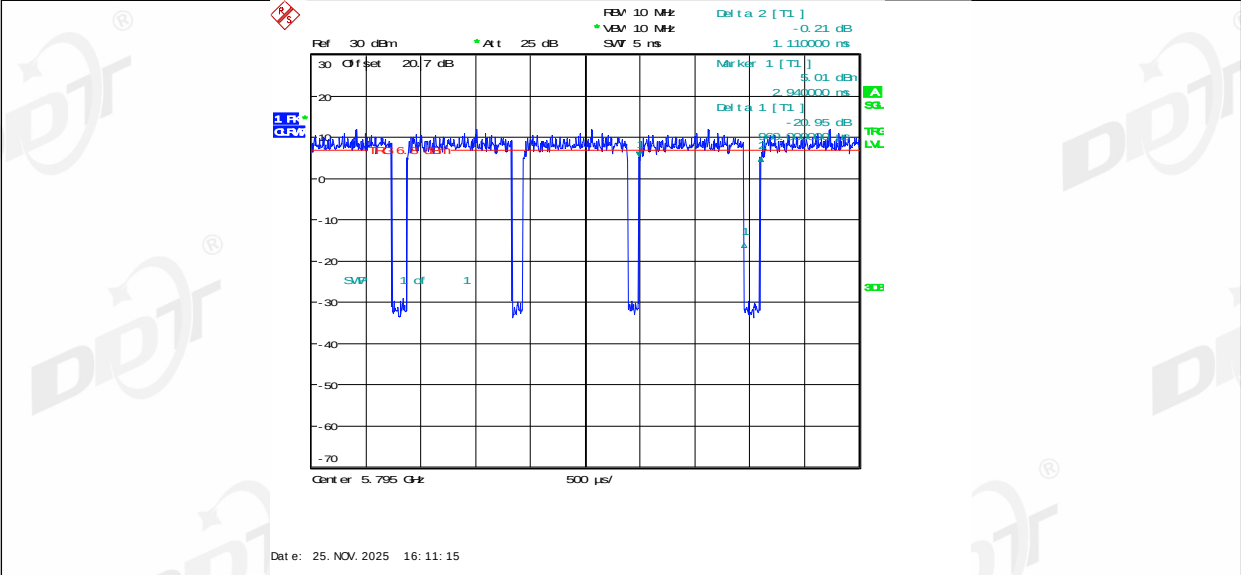
11AC40SISO_Ant1_5310



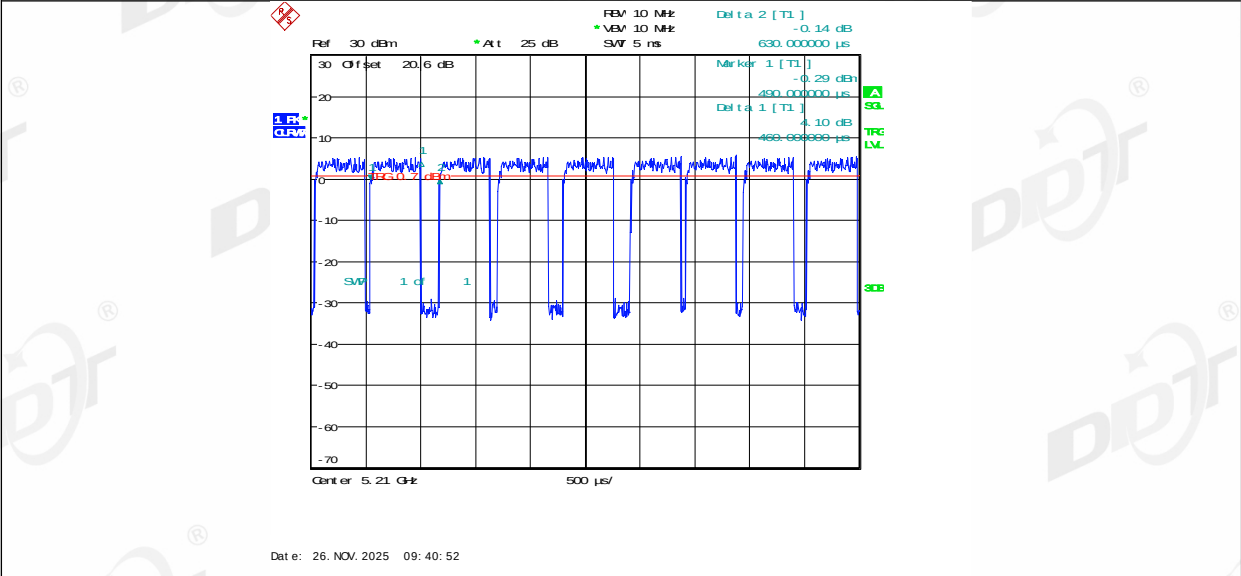
11AC40SISO_Ant1_5755



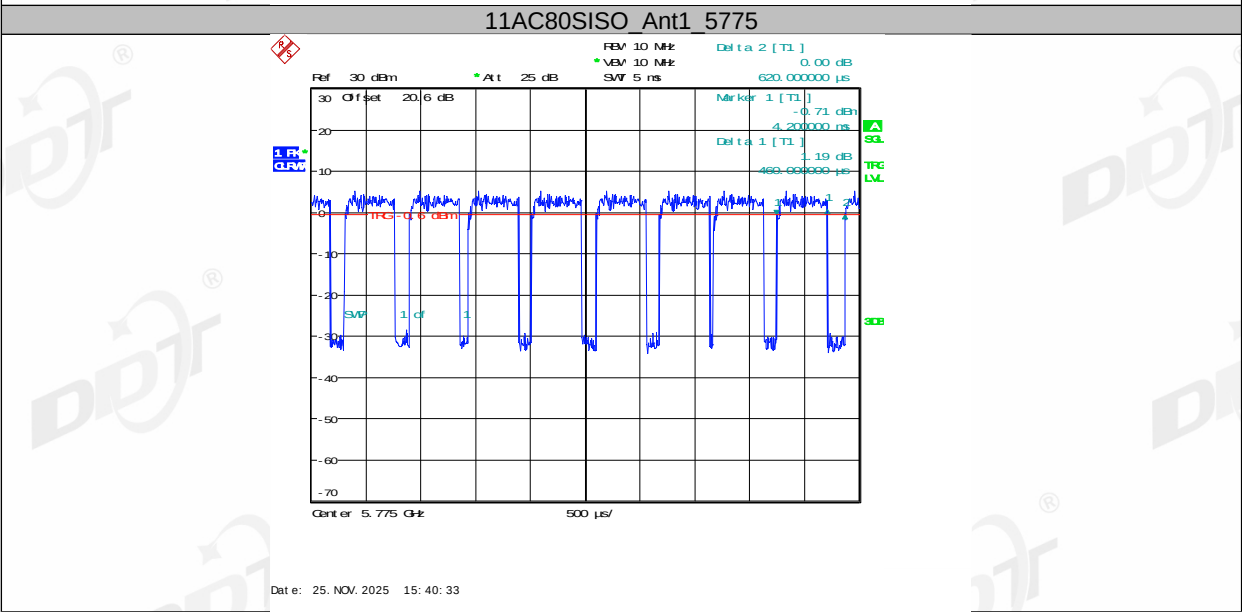
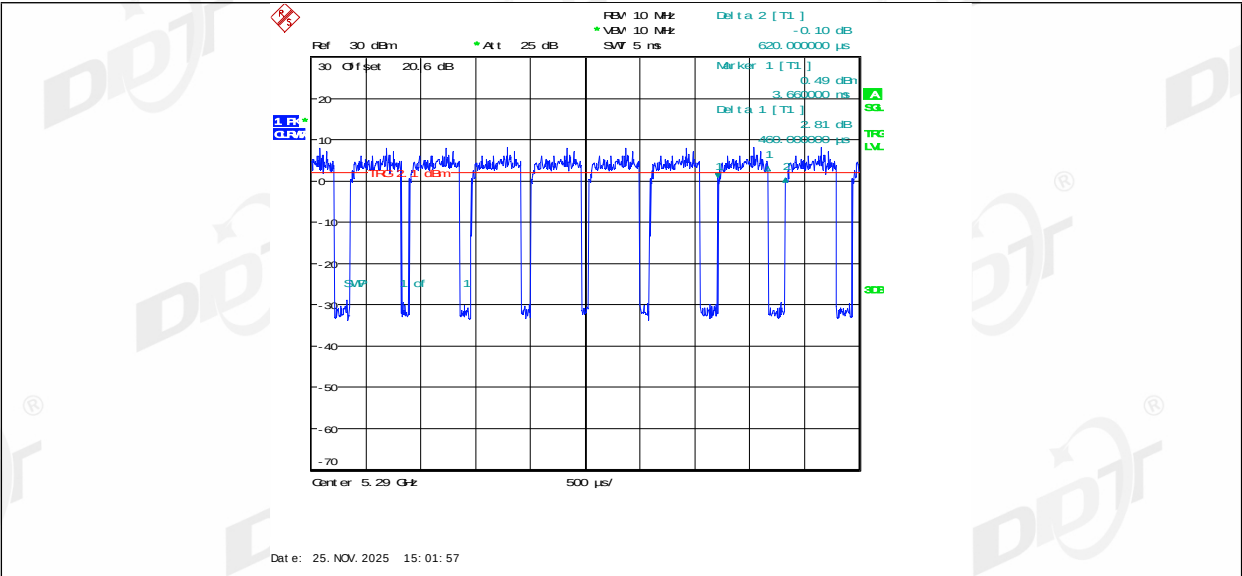
11AC40SISO Ant1 5795



11AC80SISO Ant1 5210

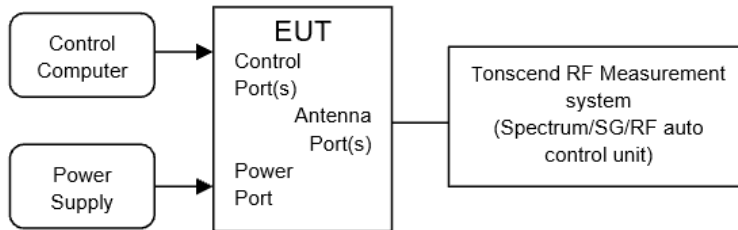


11AC80SISO Ant1 5290



8. Maximum Output Power

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E/ RSS-247		
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 RSS: e.i.r.p. power: not exceed 200 mW (23.01 dBm) or $10 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5250-5350
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	For FCC:5470 - 5725 For IC:5470 - 5600
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	5650 - 5725
	1 Watt (30 dBm)	5725-5850

Note 1: For FCC: B=26 bandwidth; For ISDE: B=99% 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.

8.3. 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.

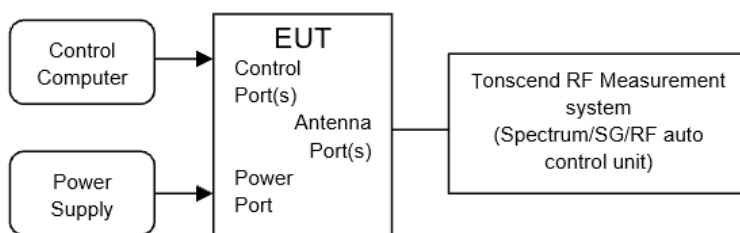
8.4. Test result channel power

Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.2℃,47.1%RH	Test Date:	2025.10.31-2025.12.06
Test Power Supply:	DC 12V	Sample Number:	S25092809-001

Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	Verdict
11A	Ant1	5180	96.30	0.16	9.59	≤23.07	PASS
		5200	92.41	0.34	10.16	≤23.07	PASS
		5240	96.30	0.16	10.26	≤23.07	PASS
		5260	94.12	0.26	10.11	≤23.07	PASS
		5280	96.30	0.16	9.59	≤23.07	PASS
		5320	95.41	0.20	8.13	≤23.07	PASS
		5745	92.83	0.32	7.06	≤29.09	PASS
		5785	92.86	0.32	7.02	≤29.09	PASS
		5825	97.20	0.12	6.25	≤29.09	PASS
11N20SISO	Ant1	5180	96.98	0.13	9.79	≤23.07	PASS
		5200	96.98	0.13	10.06	≤23.07	PASS
		5240	91.90	0.37	10.72	≤23.07	PASS
		5260	93.69	0.28	10.35	≤23.07	PASS
		5280	93.69	0.28	10.17	≤23.07	PASS
		5320	93.69	0.28	9.24	≤23.07	PASS
		5745	97.47	0.11	8.60	≤29.09	PASS
		5785	94.15	0.26	8.74	≤29.09	PASS
		5825	94.15	0.26	8.21	≤29.09	PASS
11N40SISO	Ant1	5190	88.89	0.51	10.06	≤23.07	PASS
		5230	89.62	0.48	9.88	≤23.07	PASS
		5270	84.07	0.75	10.49	≤23.07	PASS
		5310	86.36	0.64	9.69	≤23.07	PASS
		5755	91.35	0.39	9.46	≤29.09	PASS
11AC20SISO	Ant1	5795	84.82	0.72	9.38	≤29.09	PASS
		5180	94.63	0.24	10.02	≤23.07	PASS
		5200	94.66	0.24	10.19	≤23.07	PASS
		5240	95.10	0.22	10.65	≤23.07	PASS
		5260	98.48	0.07	10.20	≤23.07	PASS
		5280	96.04	0.18	10.19	≤23.07	PASS
		5320	97.00	0.13	9.20	≤23.07	PASS
		5745	97.01	0.13	8.74	≤29.09	PASS
		5785	93.72	0.28	8.87	≤29.09	PASS
11AC40SISO	Ant1	5825	92.38	0.34	8.39	≤29.09	PASS
		5190	88.79	0.52	9.53	≤23.07	PASS
		5230	84.96	0.71	10.14	≤23.07	PASS
		5270	87.27	0.59	10.26	≤23.07	PASS
		5310	87.27	0.59	9.59	≤23.07	PASS
		5755	91.43	0.39	8.83	≤29.09	PASS
11AC80SISO	Ant1	5795	86.49	0.63	8.95	≤29.09	PASS
		5210	73.02	1.37	8.54	≤23.07	PASS
		5290	74.19	1.30	8.83	≤23.07	PASS
		5775	74.19	1.30	7.78	≤29.09	PASS

9. Power Spectral Density

9.1. Block diagram of test setup



9.2. Limits

FCC Part15, Subpart E/ RSS-247		
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
	For RSS eirp: 10 dBm/MHz	
	11 dBm/MHz	5250-5350
	11 dBm/MHz	For FCC: 5470 - 5725 For ISDE: 5470 - 5600 5650 - 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.		

9.3. 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	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

9.4. Test result

Test Engineer:	Wayne Huang	Test Site:	RF Measurement System 1#
Ambient Condition:	26.2℃,47.1%RH	Test Date:	2025.10.31-2025.12.06
Test Power Supply:	DC 12V	Sample Number:	S25092809-001

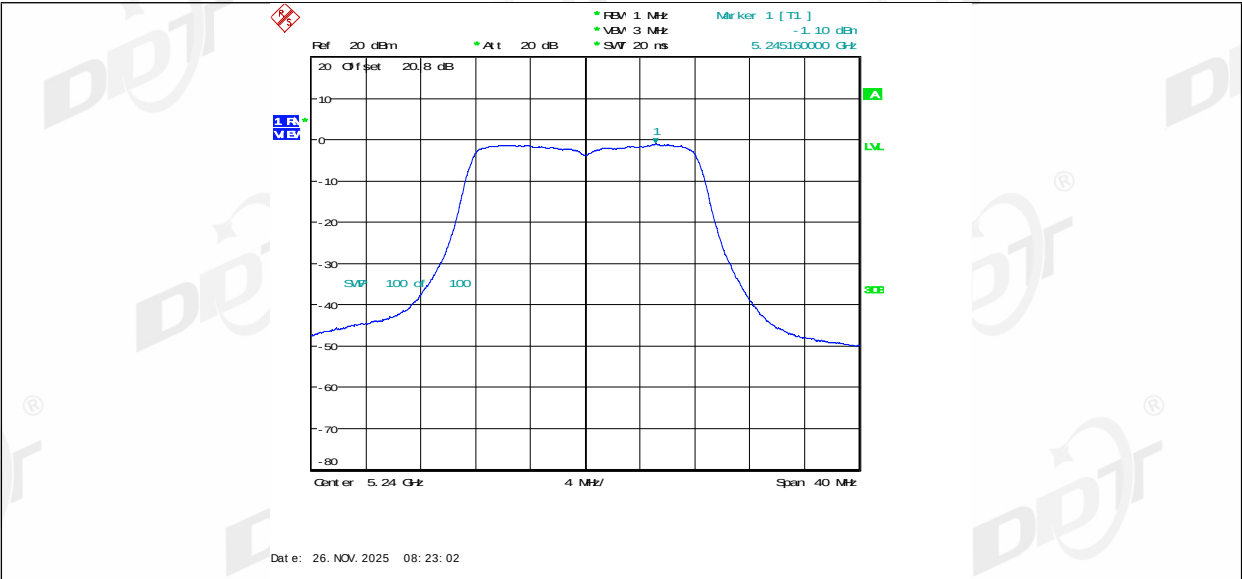
Test Mode	Antenna	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	ISED EIRP Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-1.76	≤10.09	5.15	≤10.00	PASS
		5200	-1.48	≤10.09	5.43	≤10.00	PASS
		5240	-1.10	≤10.09	5.81	≤10.00	PASS
		5260	-1.47	≤10.09	5.44	---	PASS
		5280	-1.72	≤10.09	5.19	---	PASS
		5320	-3.08	≤10.09	3.83	---	PASS
		5745	-7.24	≤29.09	-0.33	---	PASS
		5785	-7.30	≤29.09	-0.39	---	PASS
11N20SISO	Ant1	5825	-8.18	≤29.09	-1.27	---	PASS
		5180	-1.90	≤10.09	5.01	≤10.00	PASS
		5200	-1.74	≤10.09	5.17	≤10.00	PASS
		5240	-0.99	≤10.09	5.92	≤10.00	PASS
		5260	-1.43	≤10.09	5.48	---	PASS
		5280	-1.50	≤10.09	5.41	---	PASS
		5320	-2.19	≤10.09	4.72	---	PASS
		5745	-5.70	≤29.09	1.21	---	PASS
11N40SISO	Ant1	5785	-5.72	≤29.09	1.19	---	PASS
		5825	-6.28	≤29.09	0.63	---	PASS
		5190	-4.37	≤10.09	2.54	≤10.00	PASS
		5230	-4.86	≤10.09	2.05	≤10.00	PASS
		5270	-4.10	≤10.09	2.81	---	PASS
		5310	-4.53	≤10.09	2.38	---	PASS
		5755	-7.84	≤29.09	-0.93	---	PASS
		5795	-7.79	≤29.09	-0.88	---	PASS
11AC20SISO	Ant1	5180	-1.71	≤10.09	5.20	≤10.00	PASS
		5200	-1.69	≤10.09	5.22	≤10.00	PASS
		5240	-1.10	≤10.09	5.81	≤10.00	PASS
		5260	-1.43	≤10.09	5.48	---	PASS
		5280	-1.49	≤10.09	5.42	---	PASS
		5320	-2.20	≤10.09	4.71	---	PASS
		5745	-5.60	≤29.09	1.31	---	PASS
		5785	-5.54	≤29.09	1.37	---	PASS
11AC40SISO	Ant1	5825	-6.18	≤29.09	0.73	---	PASS
		5190	-5.10	≤10.09	1.81	≤10.00	PASS
		5230	-4.69	≤10.09	2.22	≤10.00	PASS
		5270	-4.19	≤10.09	2.72	---	PASS
		5310	-4.66	≤10.09	2.25	---	PASS
		5755	-8.34	≤29.09	-1.43	---	PASS
		5795	-8.21	≤29.09	-1.30	---	PASS
11AC80SISO	Ant1	5210	-7.58	≤10.09	-0.67	≤10.00	PASS
		5290	-7.21	≤10.09	-0.30	---	PASS
		5775	-11.35	≤29.09	-4.44	---	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

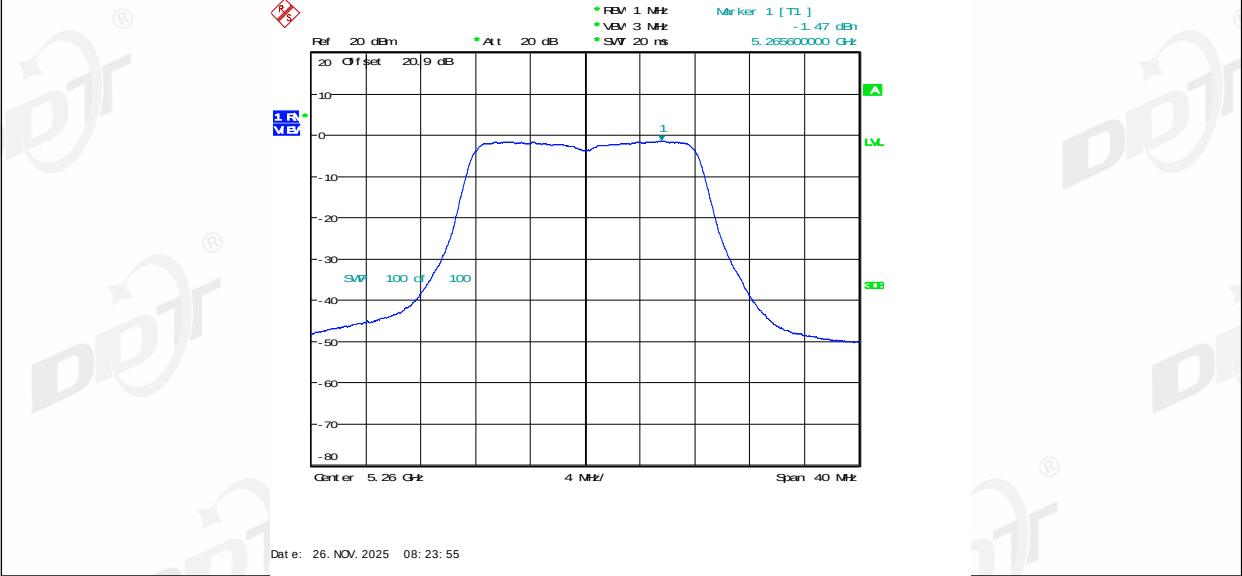
2.The Duty Cycle Factor is compensated in the graph.

9.5. Test graphs

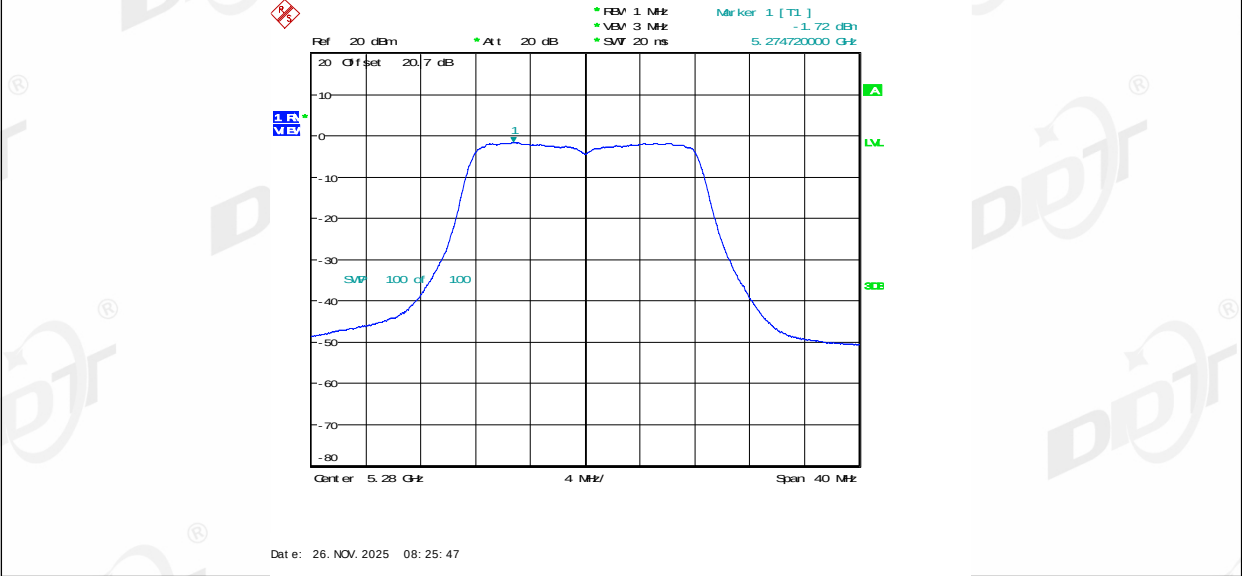




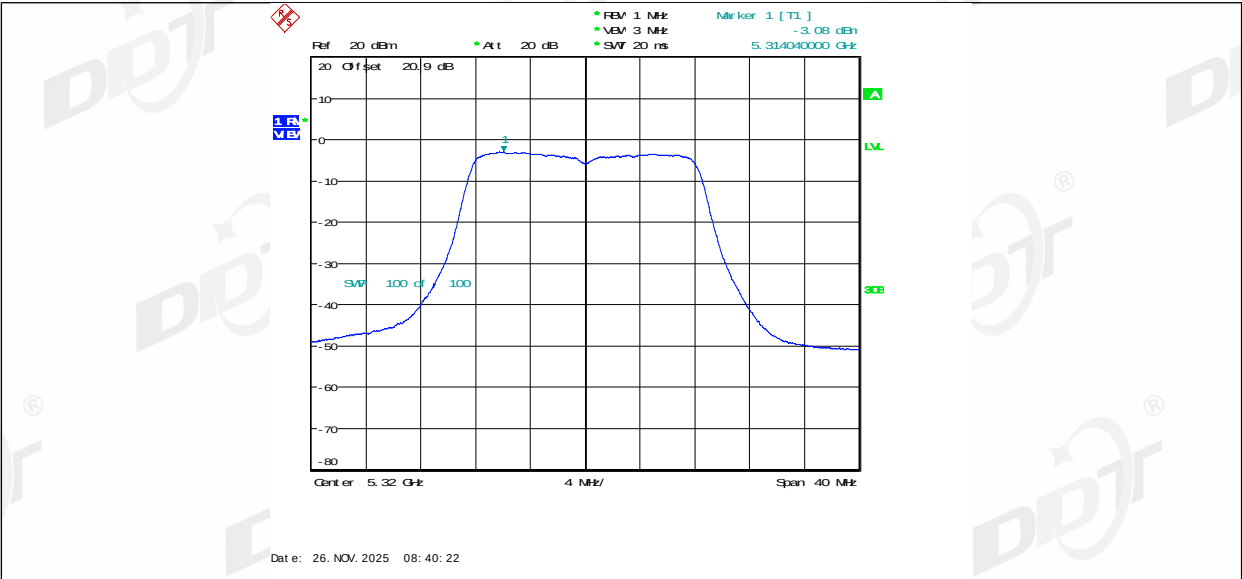
11A_Ant1_5260



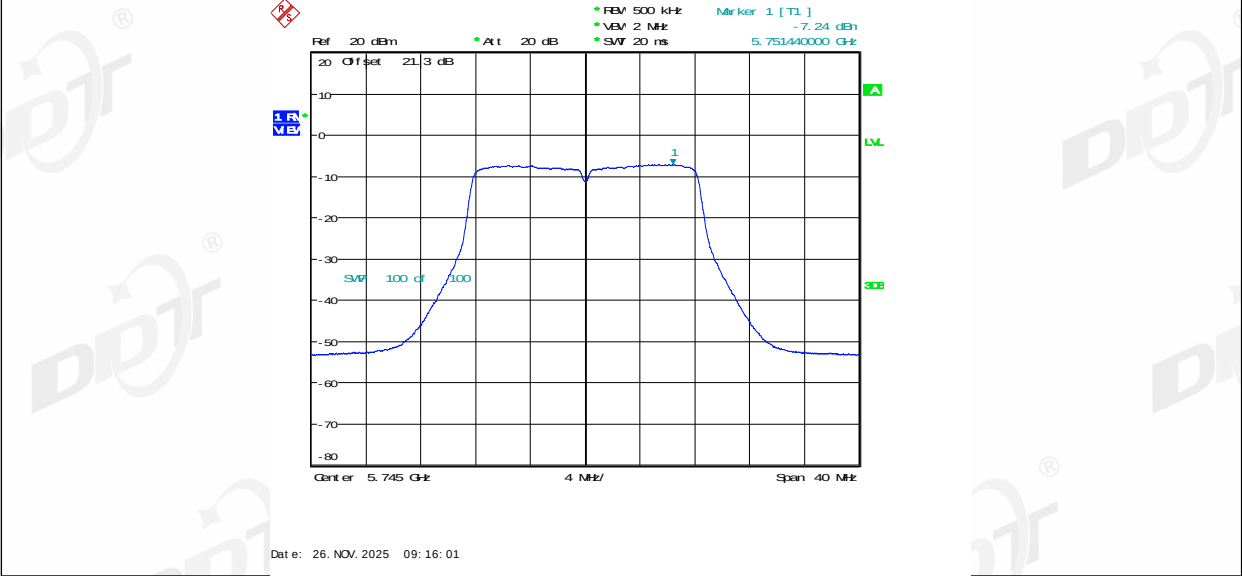
11A_Ant1_5280



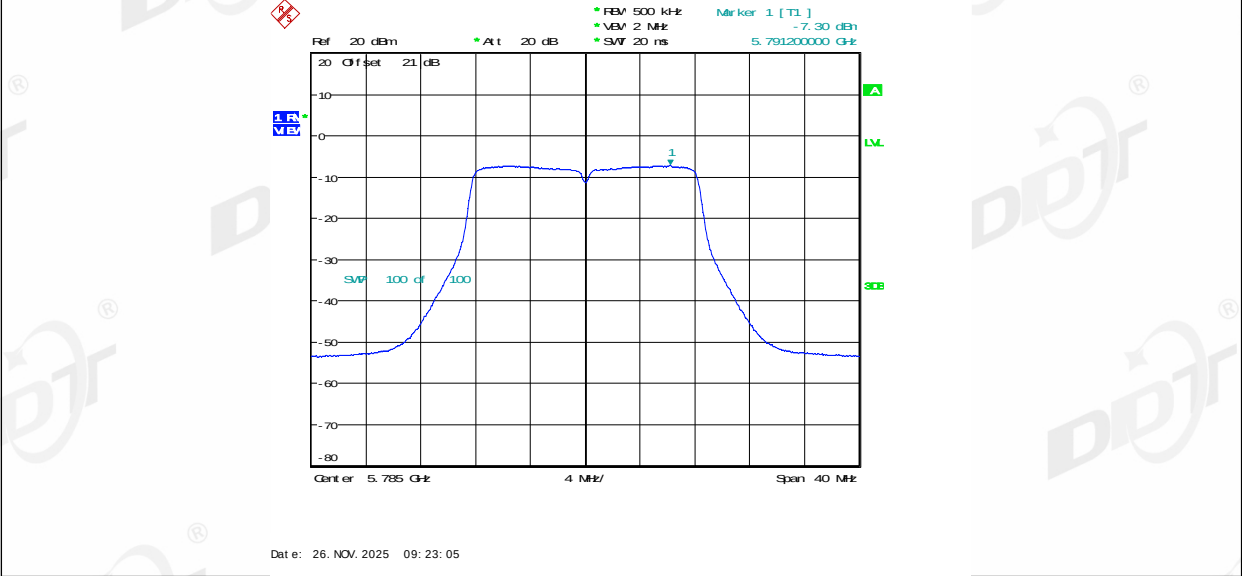
11A_Ant1_5320



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825