



RADIO TEST REPORT

Applicant	:	Guangzhou FiiO Electronics Technology Co., Ltd
Address of Applicant	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd
Address of Manufacturer	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China
Equipment under Test	:	Hi-Res Lossless Portable Music Player
Model No.	:	M21, F3071M, F3061M, F1001M, F1002M, F1003M, F1004M, F1005M, F1006M, F1007M, F1008M, F1009M
FCC ID	:	R56-FC1002
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-RE25111925-1E04
Issue Date	:	2026/01/07
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

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Equipment under Test	:	Hi-Res Lossless Portable Music Player
Model No.	:	M21, F3071M, F3061M, F1001M, F1002M, F1003M, F1004M, F1005M, F1006M, F1007M, F1008M, F1009M
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd
Address of Manufacturer	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China

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-RE25111925-1E04		
Date of Receipt:	2025/03/13	Date of Test:	2025/03/13 - 2025/05/09

Created: Chen Ziqin	Reviewed: Zoe Peng	Approved: Damon Hu
		
2025/12/23	2026/01/07	2026/01/07

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	2026/01/07	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	Power Line Conducted Emissions	47 CFR Part 15 15.207(a)	/	Pass
8	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h)	/	Pass
9	Antenna Requirement	47 CFR Part 15.203	/	Pass
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	: Hi-Res Lossless Portable Music Player
Model Number	: M21, F3071M, F3061M, F1001M, F1002M, F1003M, F1004M, F1005M, F1006M, F1007M, F1008M, F1009M
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 M21
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from USB cable or DC 3.8V built-in battery
Antenna Type	: FPC Antenna
Max Antenna Gain(dBi)	: 4.06

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-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)

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)	CH	Frequency (MHz)
36	5180	38	5190	42	5210	50	5250 (Straddle)
40	5200	46	5230	/	/	/	/
44	5220	/	/	/	/	/	/
48	5240	/	/	/	/	/	/
UNII-2A							
52	5260	54	5270	58	5290	50	5250 (Straddle)
56	5280	62	5310	/	/	/	/
60	5300	/	/	/	/	/	/
64	5320	/	/	/	/	/	/
UNII-2C							
100	5500	102	5510	106	5530	114	5570
104	5520	110	5550	122	5610	/	/
108	5540	118	5590	138	5690 (Straddle)	/	/

112	5560	126	5630	/	/	/	/
116	5580	134	5670	/	/	/	/
120	5600	142	5710 (Straddle)	/	/	/	/
124	5620	/	/	/	/	/	/
128	5640	/	/	/	/	/	/
132	5660	/	/	/	/	/	/
136	5680	/	/	/	/	/	/
140	5700	/	/	/	/	/	/
144	5720 (Straddle)	/	/	/	/	/	/
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.							

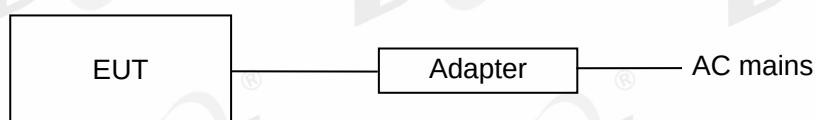
Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's 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
/	/	/	/

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: QRCT.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	10	/	6	LCH: CH36	5180
	10	/	6	MCH: CH40	5200
	10	/	6	HCH: CH48	5240
	10	/	6	LCH: CH52	5260
	10	/	6	MCH: CH56	5280
	10	/	6	HCH: CH64	5320
	10	/	6	LCH: CH100	5500
	10	/	6	MCH: CH116	5580
	10	/	6	HCH: CH140	5700
	10	/	6	Straddle: CH144	5720
	10	/	6	LCH: CH149	5745
	10	/	6	MCH: CH157	5785
	10	/	6	HCH: CH165	5825
	10	/	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
	10	/	MCS 0	LCH: CH149	5745
	10	/	MCS 0	MCH: CH157	5785
	10	/	MCS 0	HCH: CH165	5825
	10	/	MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	10	/	MCS 0	LCH: CH38	5190
	10	/	MCS 0	HCH: CH46	5230
	10	/	MCS 0	LCH: CH54	5270
	10	/	MCS 0	HCH: CH62	5310
	10	/	MCS 0	LCH: CH102	5510
	10	/	MCS 0	MCH: CH110	5550

	10	/	MCS 0	HCH: CH134	5670
	10	/	MCS 0	Straddle: CH142	5710
	10	/	MCS 0	LCH: CH151	5755
	10	/	MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	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
	10	/	MCS 0	LCH: CH149	5745
	10	/	MCS 0	MCH: CH157	5785
	10	/	MCS 0	HCH: CH165	5825
	10	/	MCS 0	LCH: CH38	5190
IEEE 802.11 ac VHT40	10	/	MCS 0	HCH: CH46	5230
	10	/	MCS 0	LCH: CH54	5270
	10	/	MCS 0	HCH: CH62	5310
	10	/	MCS 0	LCH: CH102	5510
	10	/	MCS 0	MCH: CH110	5550
	10	/	MCS 0	HCH: CH134	5670
	10	/	MCS 0	Straddle: CH142	5710
	10	/	MCS 0	LCH: CH159	5755
	10	/	MCS 0	HCH: CH36	5795
	10	/	MCS 0	CH42	5210
IEEE 802.11ac VHT80	10	/	MCS 0	CH58	5290
	10	/	MCS 0	LCH: CH106	5530
	10	/	MCS 0	HCH: CH122	5610
	10	/	MCS 0	Straddle: CH138	5690
	10	/	MCS 0	CH155	5775
	10	/	MCS 0		

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

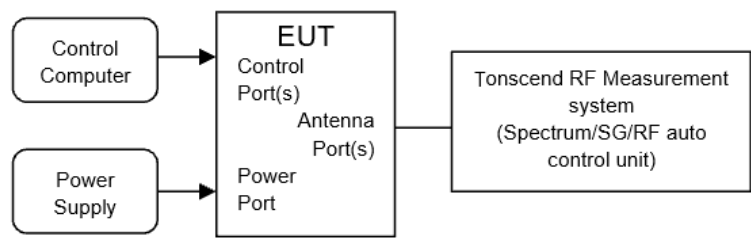
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	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 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2026/03/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10
RF Control Unit	Tonsend	JS0806-2	21I8060485	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	Ver.3.2.22	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

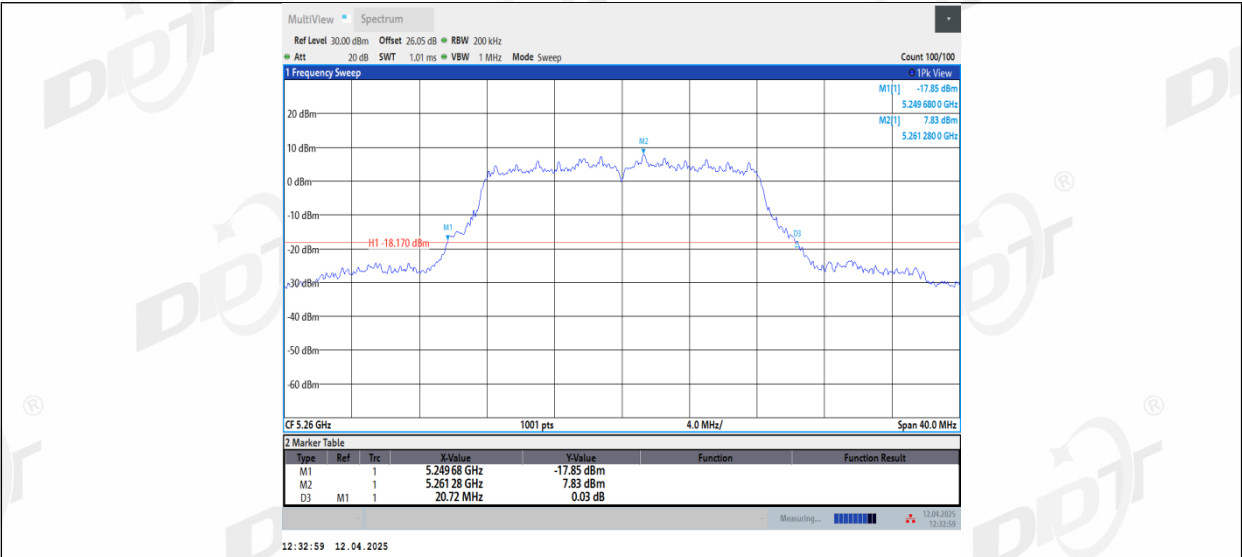
Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.3℃,46.1%RH	Test Date:	2025.04.11-2025.04.12/2025.04.26
Test Power Supply:	Battery	Sample Number:	S25022624-002

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.72	5169.68	5190.40	---	---
		5200	20.68	5189.68	5210.36	---	---
		5240	20.68	5229.68	5250.36	---	---
		5260	20.72	5249.68	5270.40	---	---
		5280	20.64	5269.60	5290.24	---	---
		5320	23.84	5309.56	5333.40	---	---
		5500	20.68	5489.68	5510.36	---	---
		5580	20.68	5569.68	5590.36	---	---
		5700	20.56	5689.68	5710.24	---	---
		5720	20.56	5709.64	5730.20	---	---
		5720 UNII-2C	15.36	5709.64	5725	---	---
		5720 UNII-3	5.2	5725	5730.20	---	---
		5745	20.60	5734.60	5755.20	---	---
		5785	20.68	5774.56	5795.24	---	---
11N20SISO	Ant1	5180	20.76	5169.72	5190.48	---	---
		5200	20.72	5189.76	5210.48	---	---
		5240	20.88	5229.76	5250.64	---	---
		5260	20.80	5249.76	5270.56	---	---
		5280	20.68	5269.72	5290.40	---	---
		5320	20.72	5309.72	5330.44	---	---
		5500	20.92	5489.76	5510.68	---	---
		5580	20.80	5569.72	5590.52	---	---
		5700	20.72	5689.68	5710.40	---	---
		5720	20.72	5709.68	5730.40	---	---
		5720 UNII-2C	15.32	5709.68	5725	---	---
		5720 UNII-3	5.4	5725	5730.40	---	---
		5745	20.88	5734.52	5755.40	---	---
		5785	20.88	5774.56	5795.44	---	---
11N40SISO	Ant1	5190	41.92	5169.36	5211.28	---	---
		5230	41.76	5209.44	5251.20	---	---
		5270	41.52	5249.60	5291.12	---	---
		5310	41.84	5289.28	5331.12	---	---
		5510	41.68	5489.36	5531.04	---	---
		5550	42.32	5528.80	5571.12	---	---
		5670	42.00	5648.96	5690.96	---	---
		5710	42.08	5688.88	5730.96	---	---
		5710 UNII-2C	36.12	5688.88	5725	---	---
		5710 UNII-3	5.96	5725	5730.96	---	---
		5755	41.92	5733.88	5775.80	---	---
		5795	41.92	5773.80	5815.72	---	---
11AC20SISO	Ant1	5180	20.68	5169.76	5190.44	---	---
		5200	20.92	5189.72	5210.64	---	---
		5240	20.72	5229.76	5250.48	---	---
		5260	20.72	5249.76	5270.48	---	---
		5280	20.72	5269.72	5290.44	---	---
		5320	20.64	5309.76	5330.40	---	---
		5500	20.84	5489.72	5510.56	---	---
		5580	20.84	5569.76	5590.60	---	---
		5700	20.72	5689.72	5710.44	---	---
		5720	20.68	5709.68	5730.36	---	---
		5720 UNII-2C	15.32	5709.68	5725	---	---
		5720 UNII-3	5.36	5725	5730.36	---	---
		5745	20.88	5734.52	5755.40	---	---

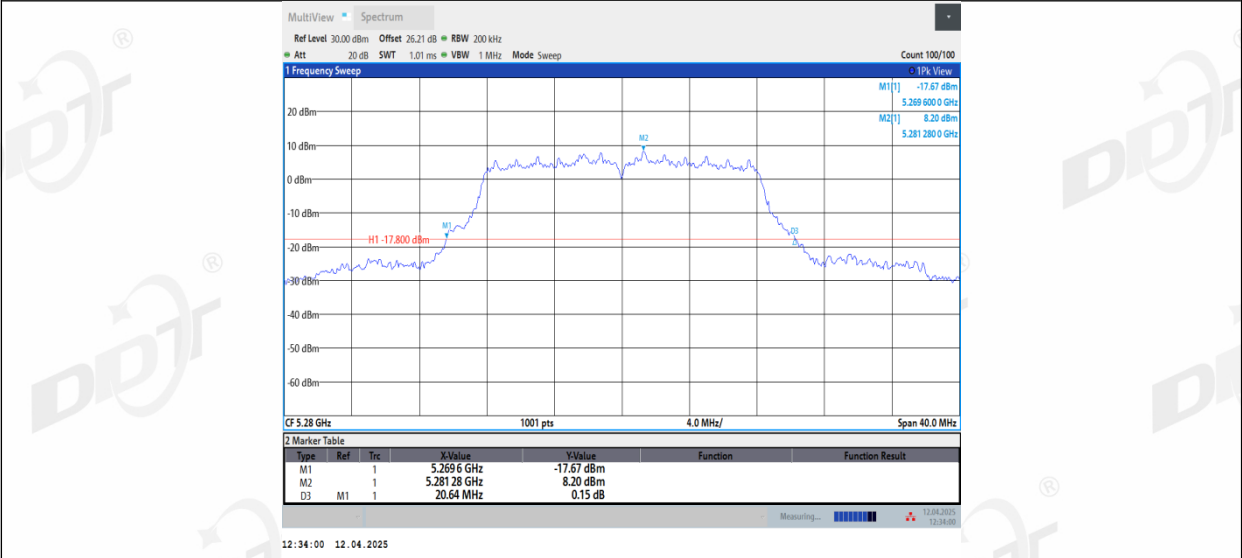
11AC40SIS O	Ant1	5785	20.92	5774.52	5795.44	---	---
		5825	20.84	5814.56	5835.40	---	---
		5190	42.16	5169.04	5211.20	---	---
		5230	41.68	5209.52	5251.20	---	---
		5270	41.60	5249.44	5291.04	---	---
		5310	41.76	5289.36	5331.12	---	---
		5510	42.16	5488.96	5531.12	---	---
		5550	42.40	5528.72	5571.12	---	---
		5670	41.76	5649.36	5691.12	---	---
		5710	41.76	5689.28	5731.04	---	---
		5710 UNII-2C	35.72	5689.28	5725	---	---
		5710 UNII-3	6.04	5725	5731.04	---	---
		5755	42.16	5733.80	5775.96	---	---
		5795	41.92	5773.88	5815.80	---	---
		5210	86.08	5167.92	5254.00	---	---
		5290	84.80	5247.60	5332.40	---	---
11AC80SIS O	Ant1	5530	85.28	5486.48	5571.76	---	---
		5610	85.44	5566.80	5652.24	---	---
		5690	84.32	5648.24	5732.56	---	---
		5690 UNII-2C	76.76	5648.24	5725	---	---
		5690 UNII-3	7.56	5725	5732.56	---	---
		5775	84.32	5732.28	5816.60	---	---

4.5. Test graphs

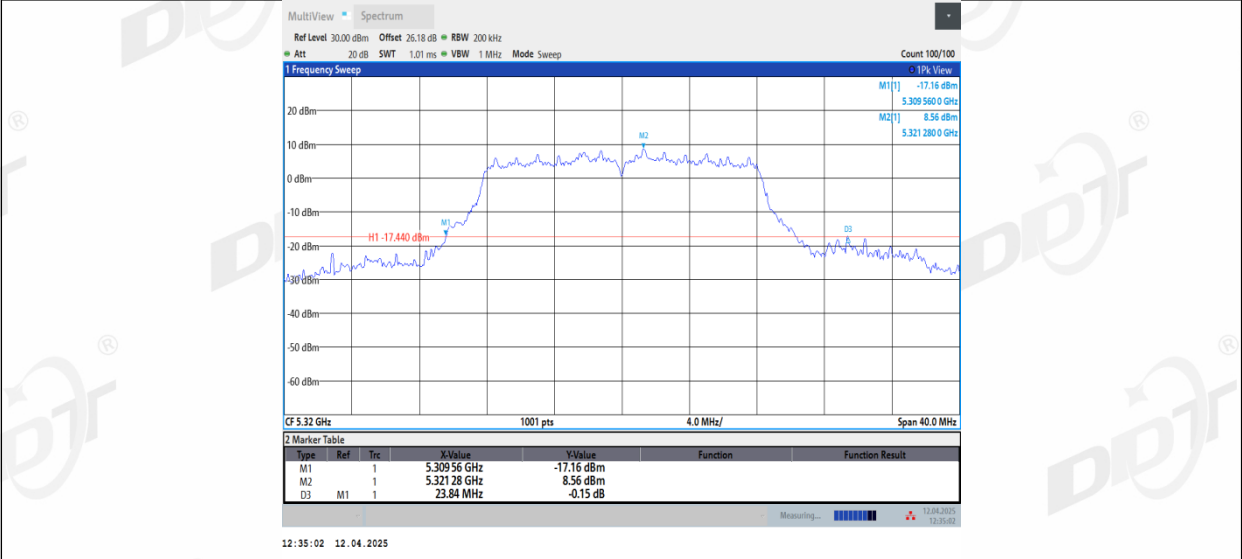




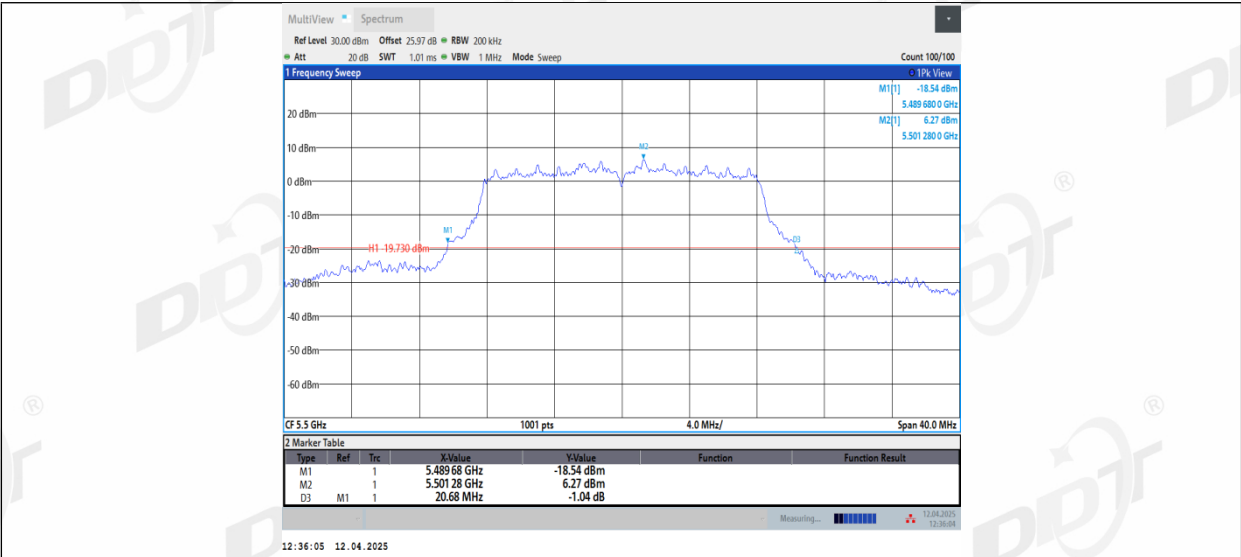
11A_Ant1_5280



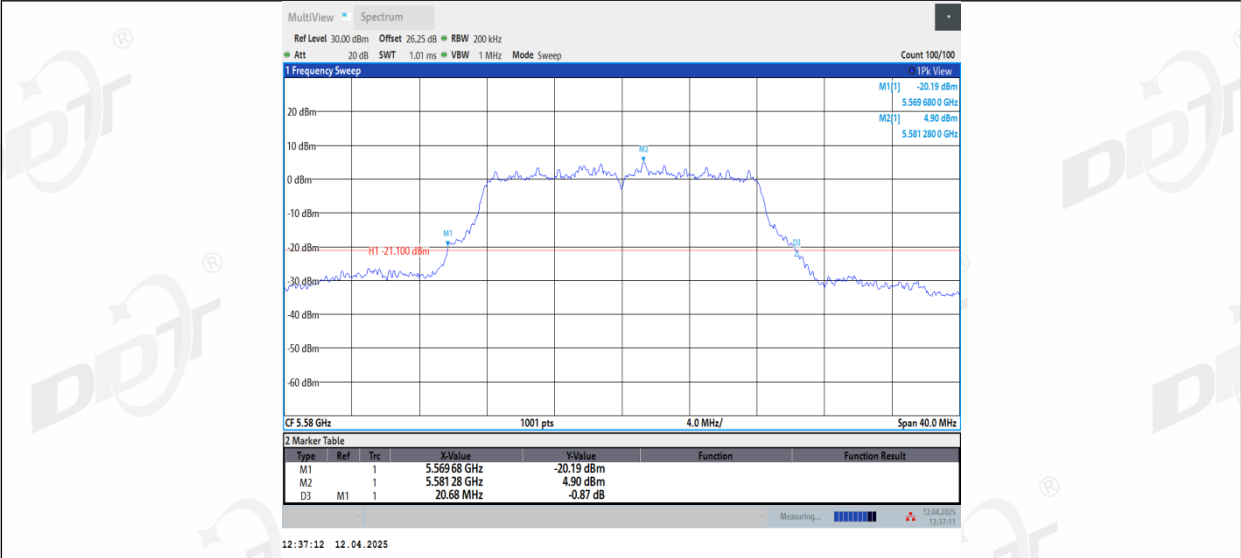
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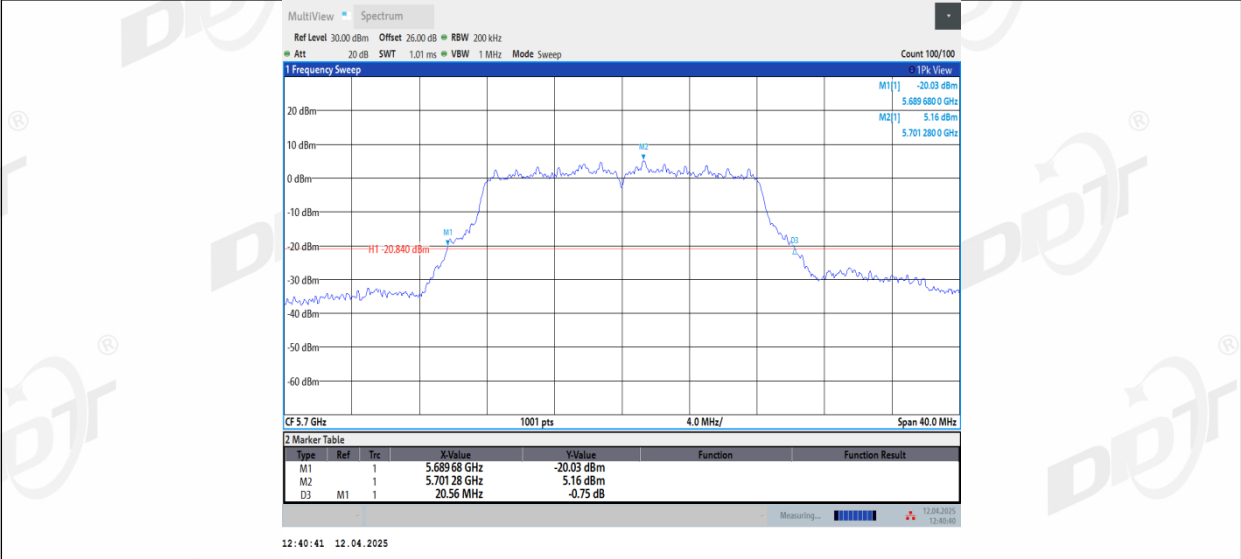
11A_Ant1_5500



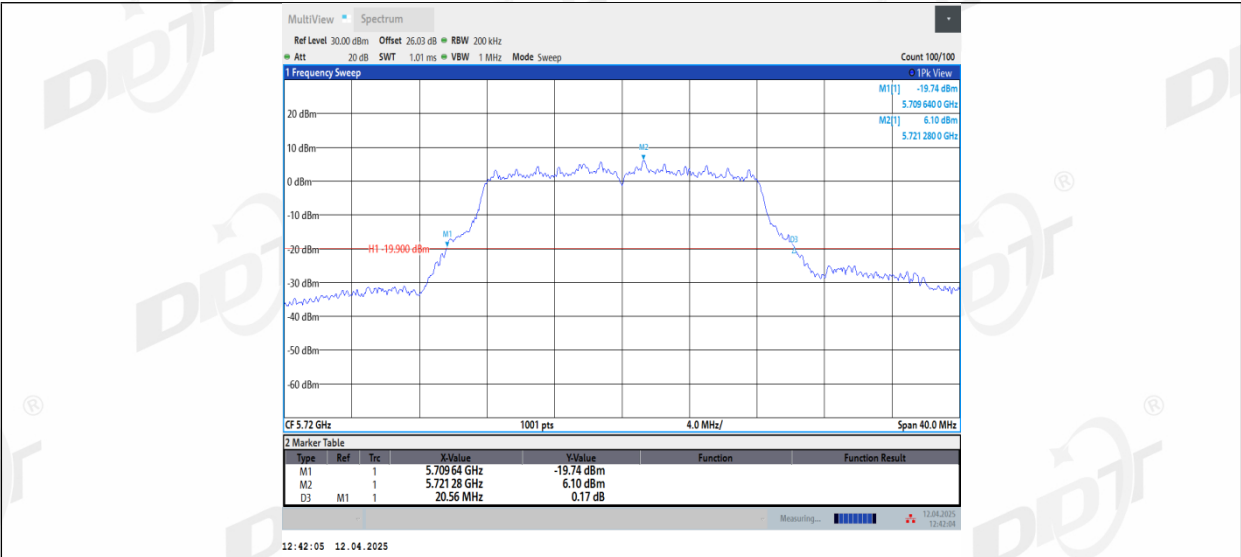
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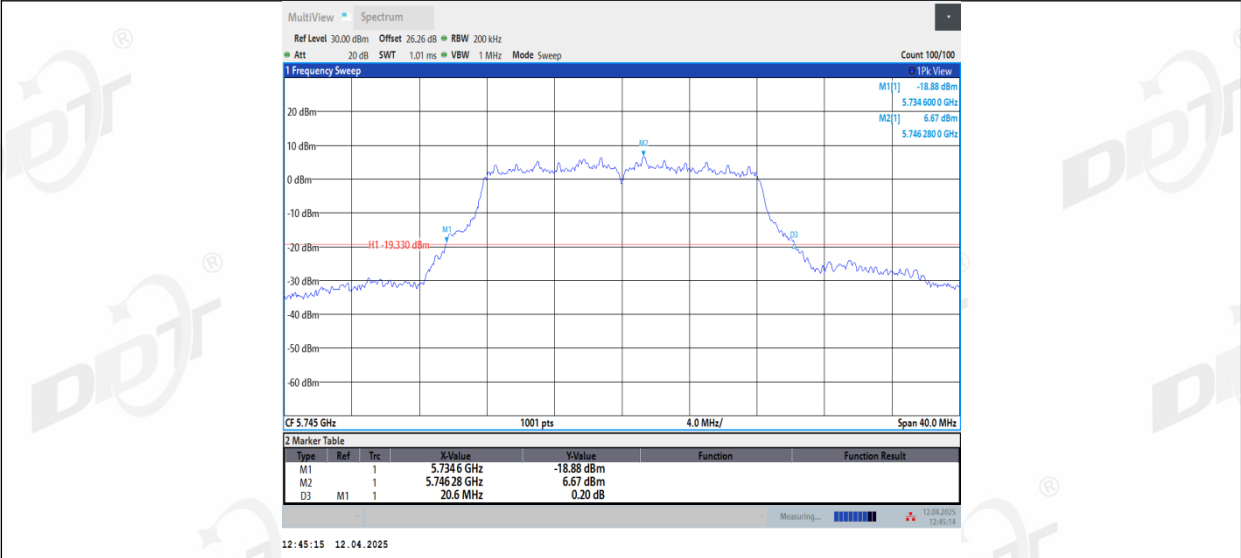
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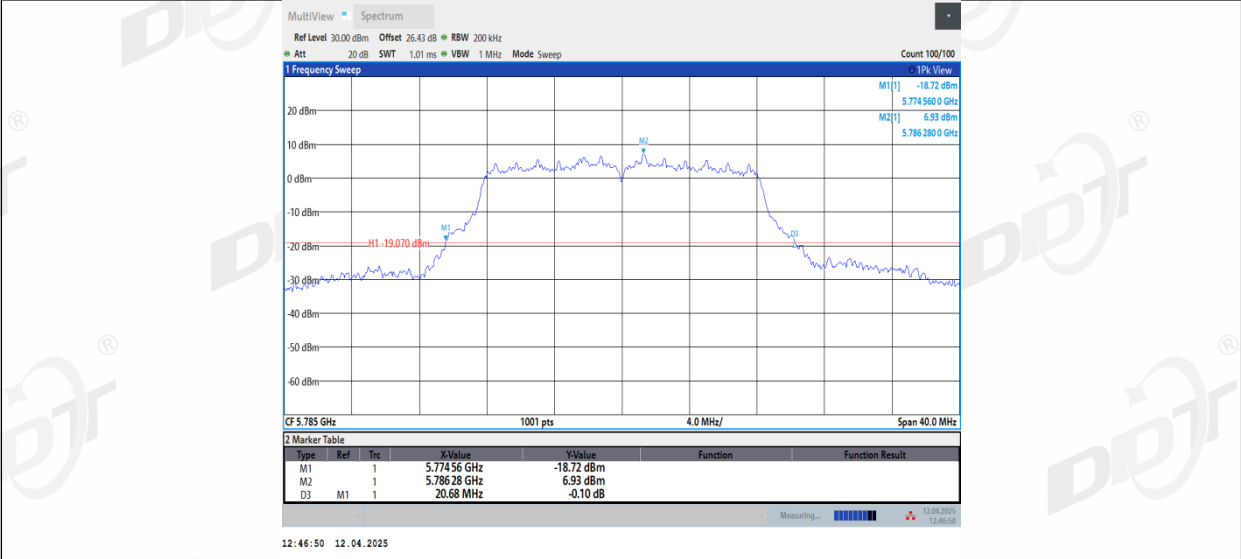
11A_Ant1_5720



11A_Ant1_5745



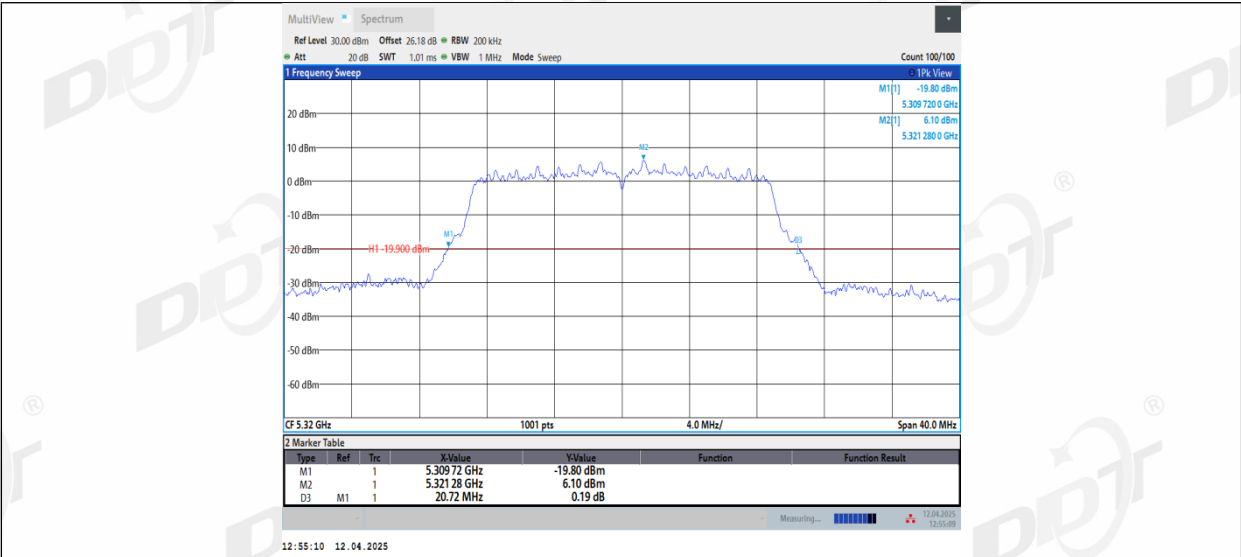
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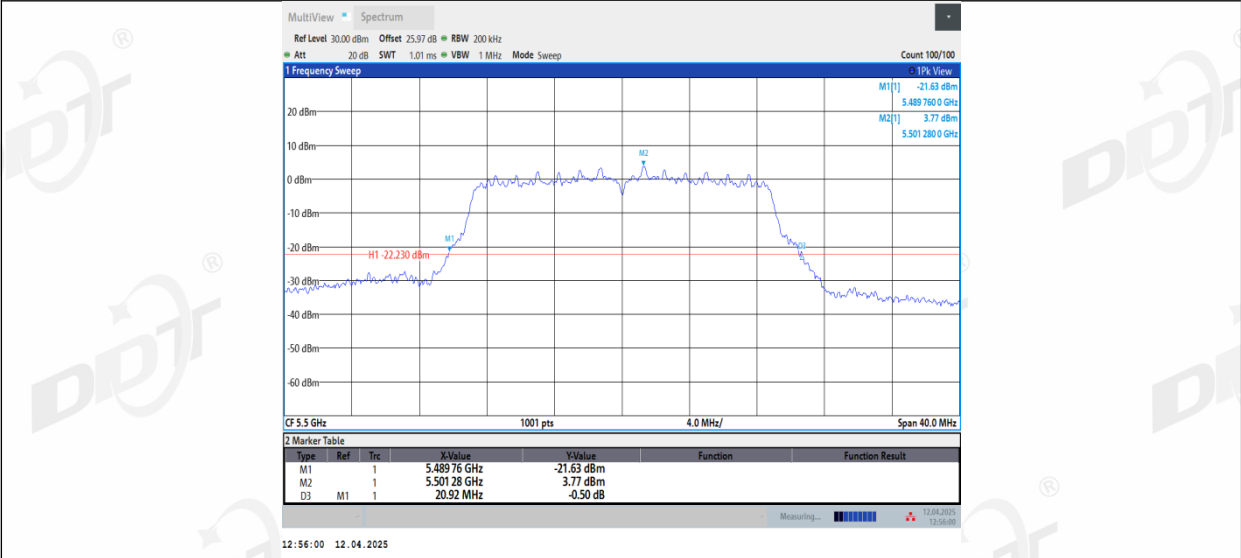
11A_Ant1_5825



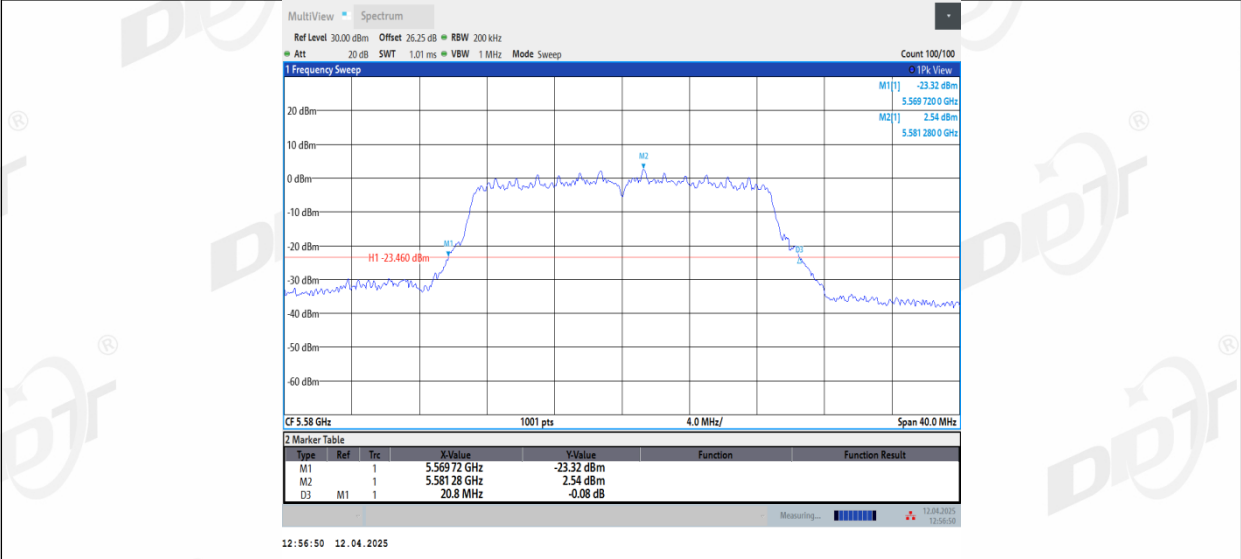




11N20SISO_Ant1_5500



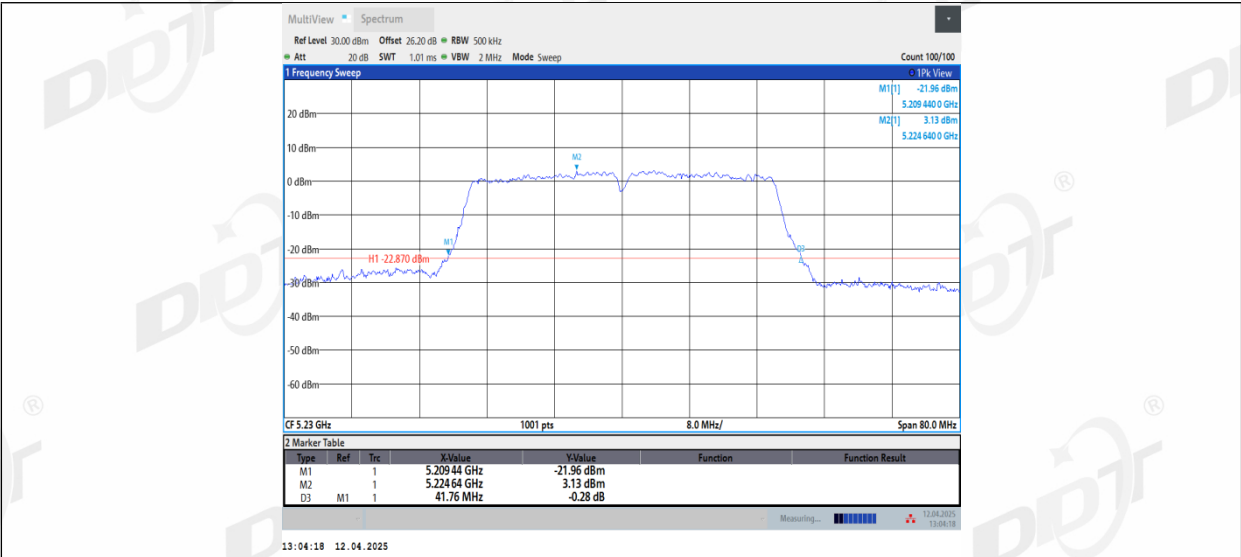
11N20SISO_Ant1_5580



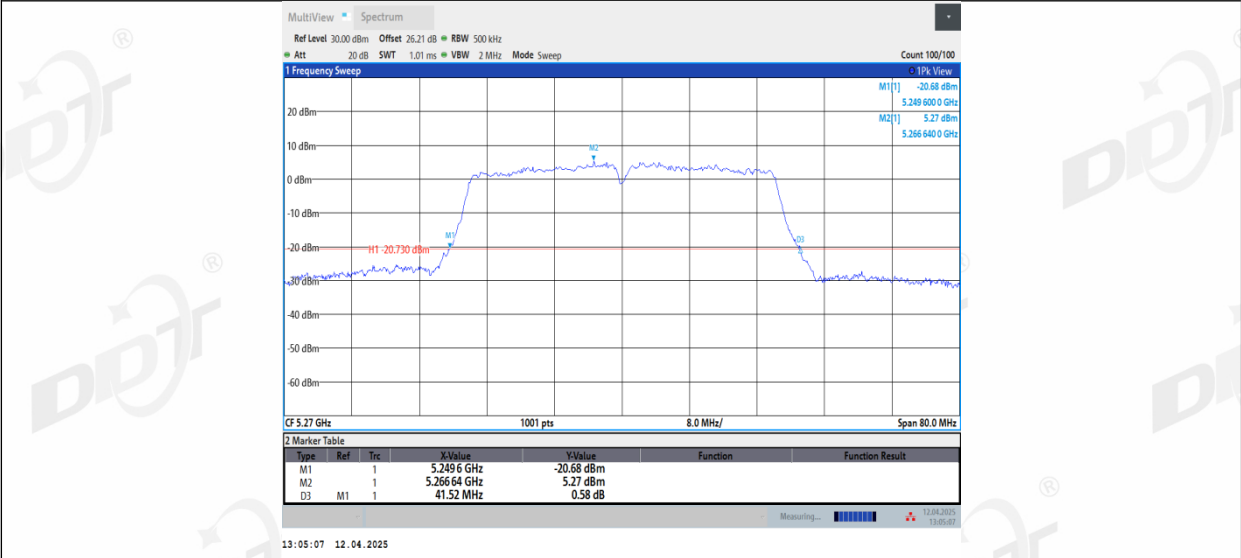
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11N40SISO_Ant1_5270

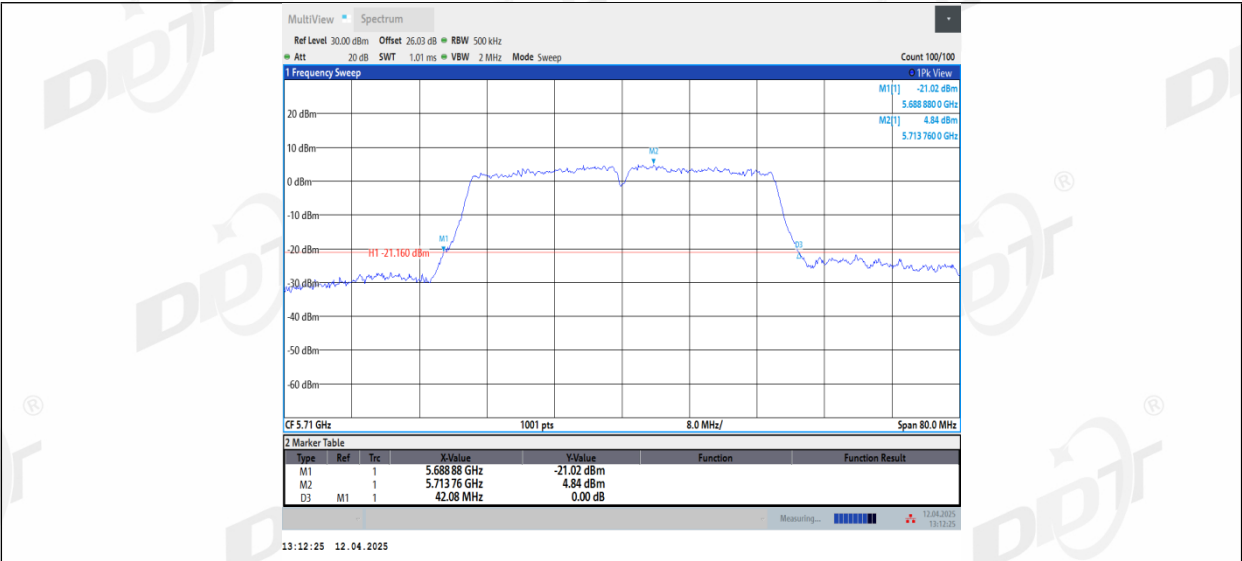


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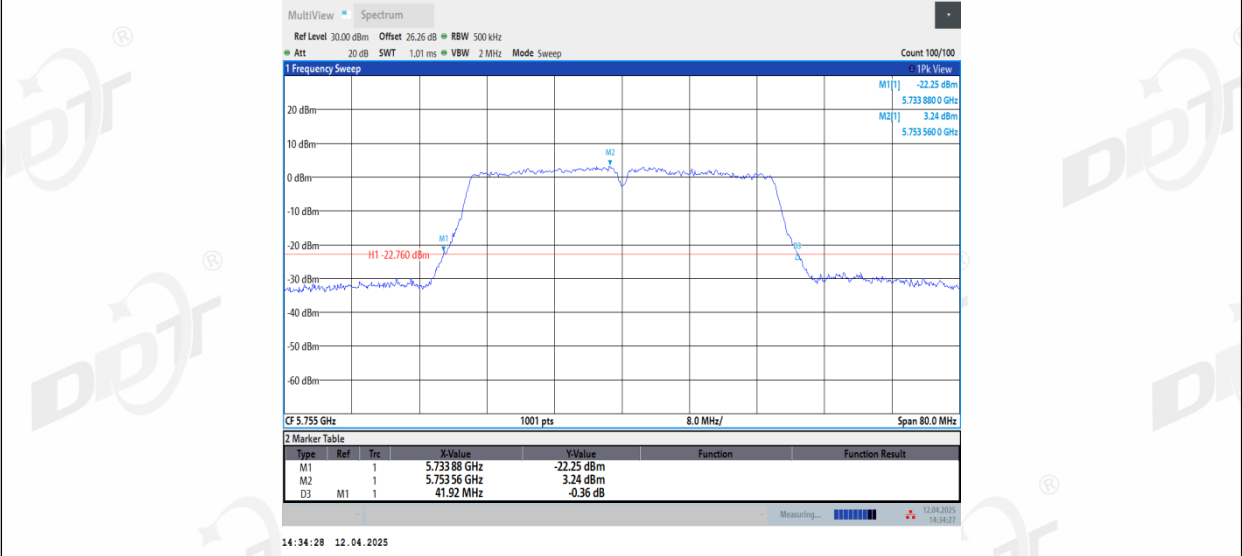


11N40SISO_Ant1_5510





11N40SISO_Ant1_5755

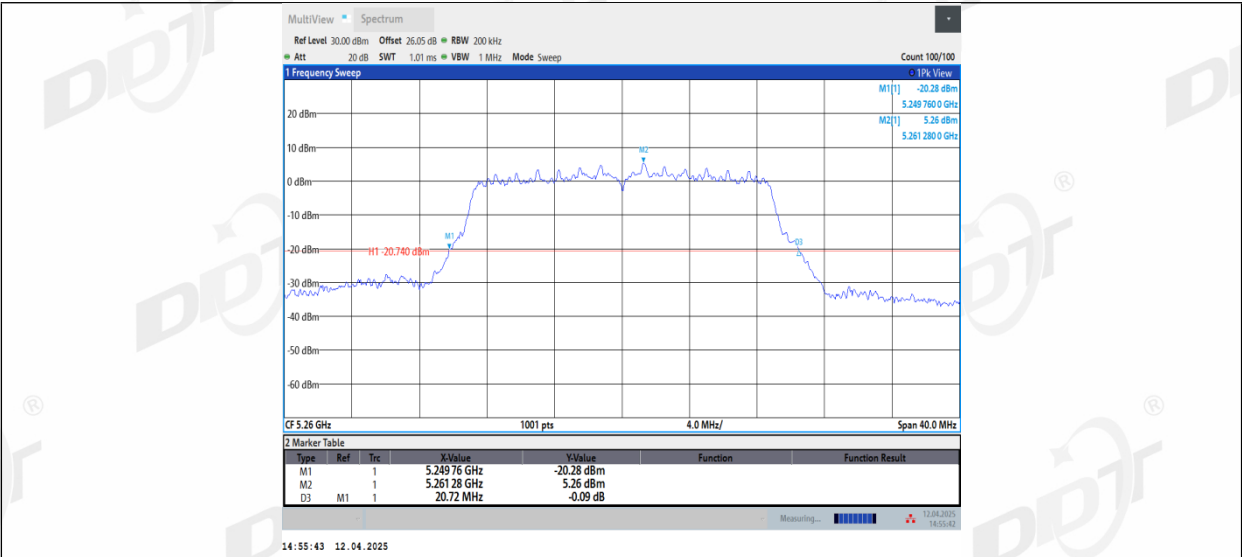


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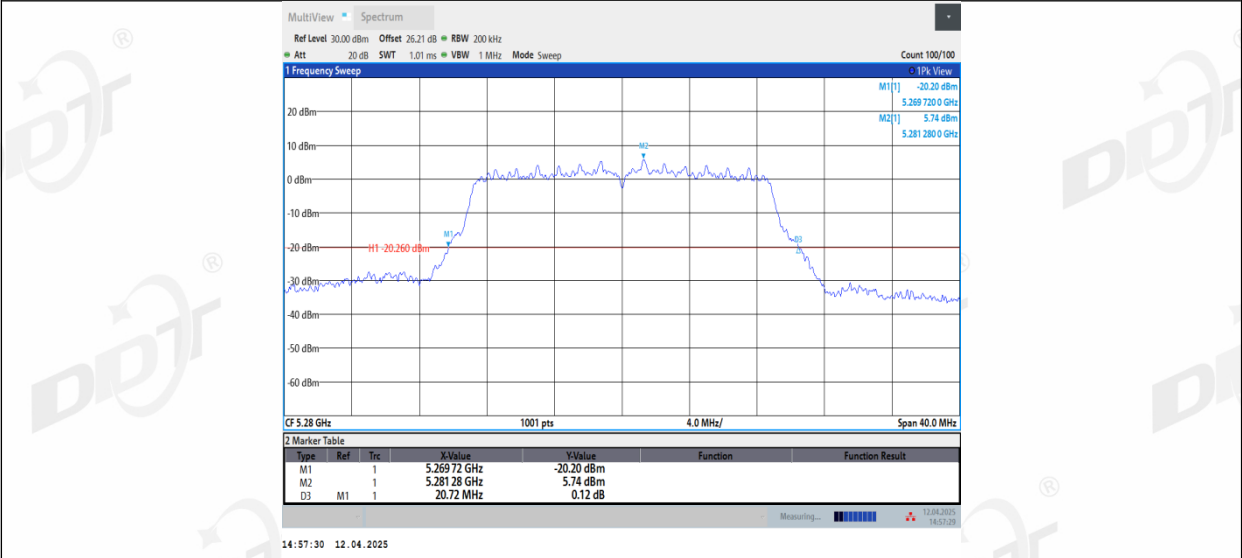


11AC20SISO_Ant1_5180





11AC20SISO_Ant1_5280

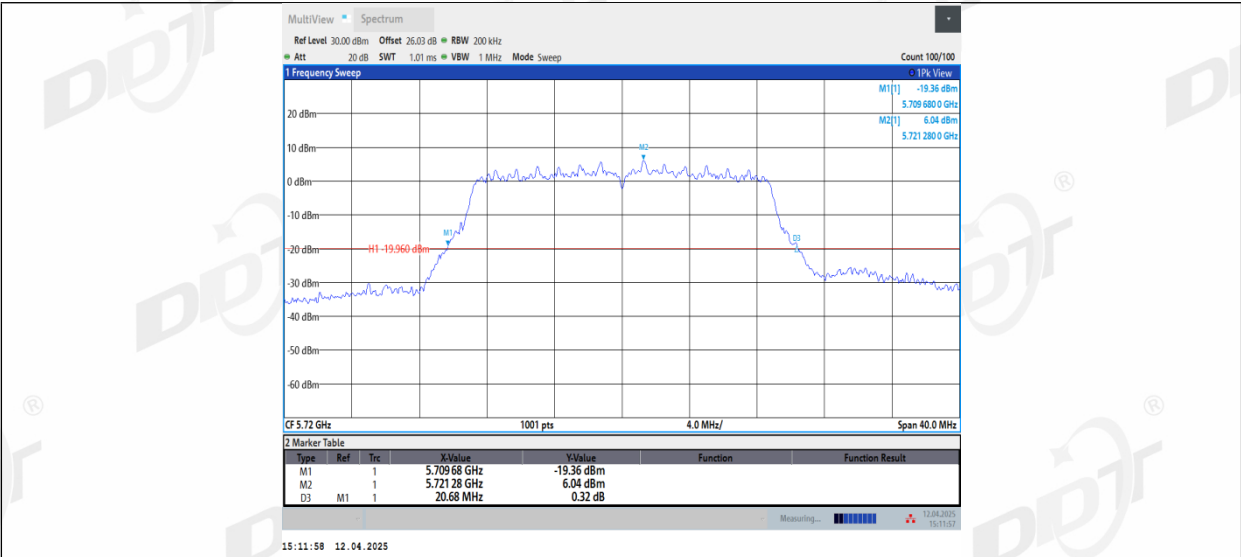


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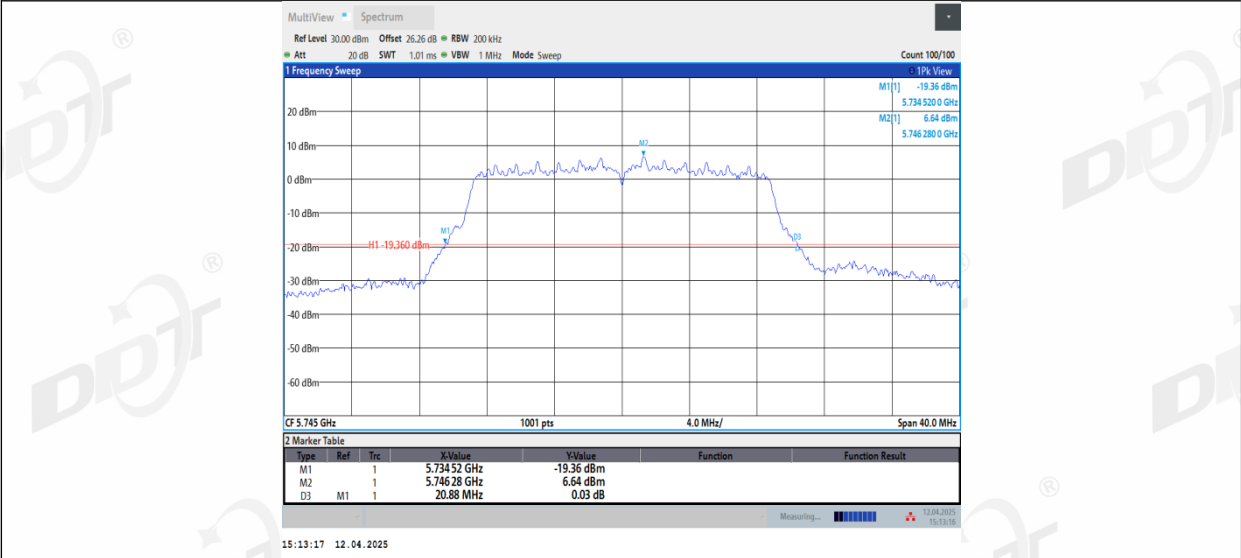


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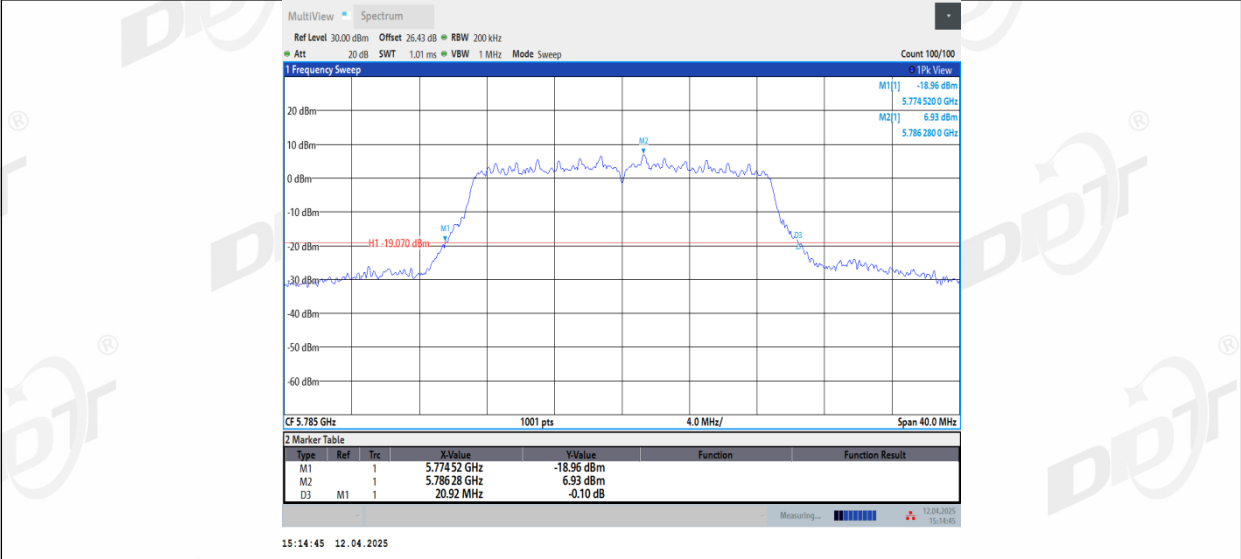




11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785

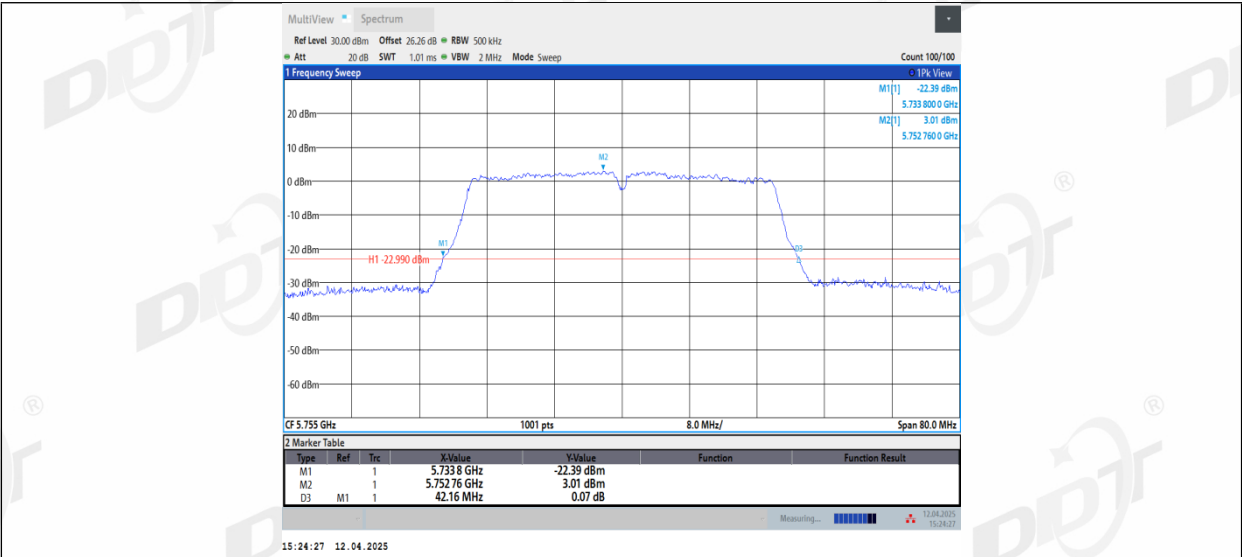


11AC20SISO_Ant1_5825

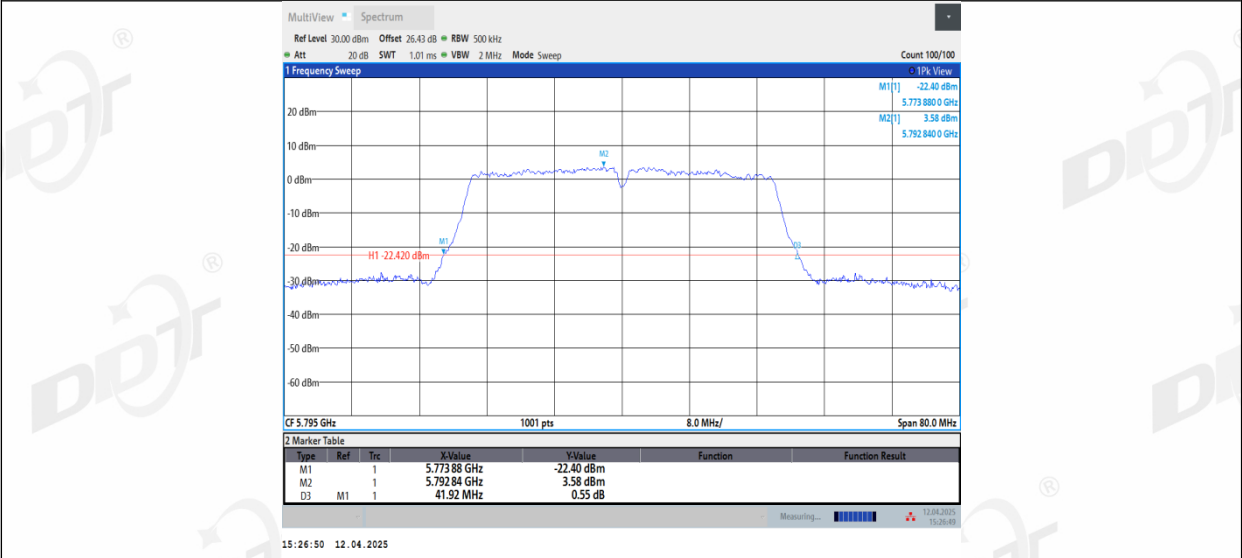




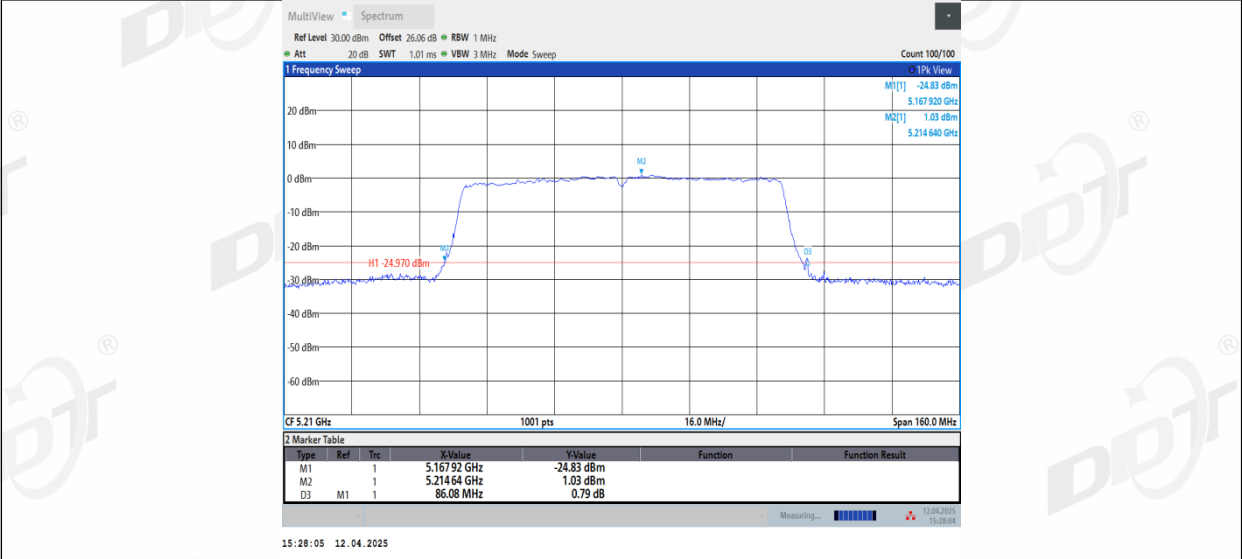




11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



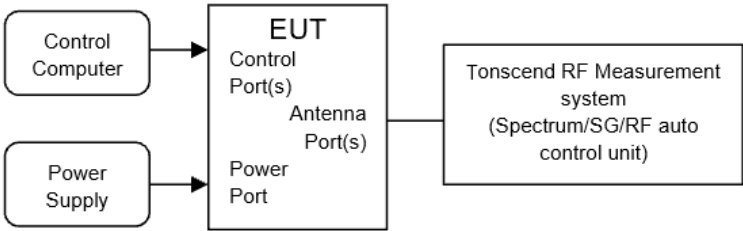
11AC80SISO_Ant1_5290





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.