FCC CERTIFICATION TEST REPORT

Applicant	:	First Technology Group, LLC
Address of Applicant	:	401 Hawthorne Ln, Suite 110-185 c/o Tedesco JSN, Charlotte North Carolina, United State
Manufacturer	:	Huizhou Foryou General Electronics Co., Ltd.
Address of Manufacturer	:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)
Equipment under Test	:	Multimedia
Model No.	:	Kansas City 150
FCC ID	:	2BCRZ-KANSAS150
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart E, ANSI C63.10:2013
Report No.	:	DDT-RE23121811-2E04
Issue Date	:	2024/01/15
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.
Address of Laboratory	:	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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Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E

Test procedure used:

ANSI C63.10:2013, 789033 D02 General U-NII Test Procedures New Rules 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.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No.:	DDT-RE23121811-2E04		
Date of Receipt:	2024/01/03	**Date of Test:**	2024/01/03-2024/01/15

Prepared By: ***Approved By:***

Bobo Chen

Bobo Chen/Engineer

Damon Hu

Damon Hu/EMC Manager

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

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/01/15	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	**Standard**	**Results**
6/26db Bandwidth	FCC 15.407 (e)	PASS
Maximum Conducted Output Power	FCC 15.407 (a)	PASS
Power Spectral Density	FCC 15.407 (a)	PASS
Frequency Stability Measurement	FCC 15.407 (g)	PASS
Emissions in restricted frequency bands	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS
Band Edge Compliance	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS
Power Line Conducted Emission	FCC 15.207	N/A
Antenna requirement	FCC 15.203	PASS
Dynamic Frequency Selection	FCC 15.407 (h)	PASS
Note: N/A is an abbreviation for Not Applicable and means this test item is not applicable for this device according to the technology characteristic of device.		

2. General Test Information

2.1. Description of EUT

EUT Name	:	Multimedia
Model Number	:	Kansas City 150
EUT function description	:	Please reference user manual of this device
Power Supply	:	DC 12V
Radio Technology	:	Bluetooth V5.0 (BR/EDR/LE), WLAN(2.4 GHz): IEEE 802.11b/g/n WLAN(5 GHz): IEEE 802.11a/n/ac
Operation frequency	:	Bluetooth (BR/EDR/LE): 2402 MHz-2480 MHz IEEE 802.11b/g/n: 2412 MHz to 2462 MHz, IEEE 802.11a/n/ac: 5180 MHz to 5240 MHz, 5260 MHz to 5320 MHz, 5745 MHz to 5825 MHz,
Modulation	:	Bluetooth BR/EDR: GFSK, π/4-DQPSK, 8DPSK Bluetooth LE: GFSK IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	:	Bluetooth BR/EDR: 1 Mbps, 2 Mbps, 3 Mbps Bluetooth LE: 1 Mbps, 2 Mbps IEEE 802.11b: up to 11 Mbps IEEE 802.11g: up to 54 Mbps IEEE 802.11a: up to 54 Mbps IEEE 802.11n HT20: up to 144.4 Mbps IEEE 802.11n HT40: up to 300 Mbps IEEE 802.11ac VHT20: up to 86.7 Mbps IEEE 802.11ac VHT40: up to 200 Mbps IEEE 802.11ac VHT80: up to 433.3 Mbps

Note 1: EUT is the abbreviation of equipment under test.

Note 2: "☒" means to be chosen or applicable; "☐" means don't to be chosen or not applicable; This note applies to entire report.

Note 3: Antenna information

Antenna information			
Antenna Type	:	Whip antenna	
Antenna Gain(dBi)	:	5150-5250 MHz	2.76
		5250-5350 MHz	3.21
		5750-5850 MHz	3.47

Channel information					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (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	/	/	/	/

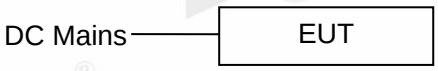
2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	SN	FCC ID
Router	ASUS	GT-AXE11000	M8IG0X400384RSG	MSQ-RTAXJF00

2.4. Block diagram of EUT configuration for test



Control EUT operation in continuous Tx mode by entering DUT mode and selecting the test channel, wireless mode as below table.

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

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mpbs) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	18	6	Low: CH36	5180
	18	6	Middle: CH40	5200
	18	6	High: CH48	5240
	18	6	Low: CH52	5260
	18	6	Middle: CH56	5280
	18	6	High: CH64	5320
	Default	6	Low: CH149	5745
	Default	6	Middle: CH157	5785
	Default	6	High: CH165	5825
IEEE 802.11n HT20	17	MCS 0	Low: CH36	5180
	17	MCS 0	Middle: CH40	5200
	17	MCS 0	High: CH48	5240
	17	MCS 0	Low: CH52	5260
	17	MCS 0	Middle: CH56	5280
	17	MCS 0	High: CH64	5320
	Default	MCS 0	Low: CH149	5745
	Default	MCS 0	Middle: CH157	5785
	Default	MCS 0	High: CH165	5825
IEEE 802.11n HT40	13	MCS 0	Low: CH38	5190
	13	MCS 0	Middle: CH46	5230
	13	MCS 0	High: CH54	5270
	13	MCS 0	Low: CH62	5310
	Default	MCS 0	Middle: CH151	5755
	Default	MCS 0	High: CH159	5795
IEEE 802.11ac VHT20	17	MCS 0	Low: CH36	5180
	17	MCS 0	Middle: CH40	5200
	17	MCS 0	High: CH48	5240
	17	MCS 0	Low: CH52	5260
	17	MCS 0	Middle: CH56	5280

	17	MCS 0	High: CH64	5320
	Default	MCS 0	Low: CH149	5745
	Default	MCS 0	Middle: CH157	5785
	Default	MCS 0	High: CH165	5825
IEEE 802.11ac VHT40	15	MCS 0	Low: CH38	5190
	15	MCS 0	Middle: CH46	5230
	15	MCS 0	High: CH54	5270
	15	MCS 0	Low: CH62	5310
	Default	MCS 0	Middle: CH151	5755
	Default	MCS 0	High: CH159	5795
IEEE 802.11ac VHT80	15	MCS 0	CH42	5210
	15	MCS 0	CH58	5290
	Default	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

Temperature range:	+15℃ to +35 ℃
Humidity range:	20% to 75%
Pressure range:	86 kPa to106 kPa

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-20155, G-20118

2.8. Measurement uncertainty

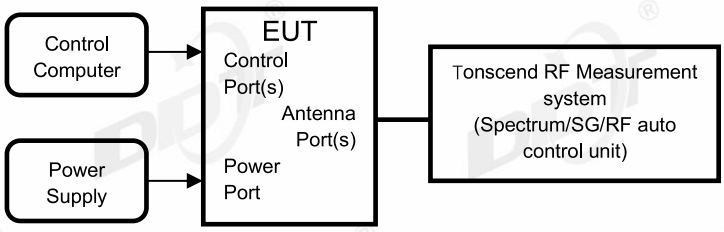
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 26.5 GHz)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 ℃
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (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	2024/04/22
Wideband Radio Communication Tester	R&S	CMW500	168801	2024/04/26
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2024/04/26
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2024/09/05
RF Control Unit	Tonsend	JS0806-2	21I8060485	2024/04/26
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2024/05/14
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		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	5470 - 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 4#
Ambient Condition:	25.2℃,45.6%RH	Test Date:	2024.01.08
Test Power Supply:	DC 12V	EUT:	Multimedia
Sample Number:	S23121811-002	Model No.:	Kansas City 150

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	26.04	5166.76	5192.80	---	---
		5200	27.88	5185.60	5213.48	---	---
		5240	26.36	5226.84	5253.20	---	---
		5260	24.40	5247.48	5271.88	---	---
		5280	22.80	5268.48	5291.28	---	---
		5320	23.16	5307.36	5330.52	---	---
		5745	19.92	5735.04	5754.96	---	---
		5785	19.92	5775.04	5794.96	---	---
		5825	19.88	5815.08	5834.96	---	---
11N20SISO	Ant1	5180	25.04	5168.12	5193.16	---	---
		5200	21.88	5188.32	5210.20	---	---
		5240	23.20	5228.28	5251.48	---	---
		5260	22.88	5248.44	5271.32	---	---
		5280	23.00	5268.48	5291.48	---	---
		5320	21.96	5308.40	5330.36	---	---
		5745	20.32	5734.84	5755.16	---	---
		5785	20.24	5774.84	5795.08	---	---
		5825	20.20	5814.92	5835.12	---	---
11N40SISO	Ant1	5190	41.20	5169.36	5210.56	---	---
		5230	41.52	5209.20	5250.72	---	---
		5270	41.52	5249.12	5290.64	---	---
		5310	41.44	5289.36	5330.80	---	---
		5755	40.64	5734.52	5775.16	---	---
		5795	40.80	5774.60	5815.40	---	---
11AC20SISO	Ant1	5180	23.36	5169.08	5192.44	---	---
		5200	22.68	5188.36	5211.04	---	---
		5240	23.88	5226.64	5250.52	---	---
		5260	20.84	5249.80	5270.64	---	---
		5280	20.52	5269.64	5290.16	---	---
		5320	22.24	5308.44	5330.68	---	---
		5745	20.24	5734.88	5755.12	---	---
		5785	20.28	5774.88	5795.16	---	---
		5825	20.24	5814.92	5835.16	---	---
11AC40SISO	Ant1	5190	41.04	5169.44	5210.48	---	---
		5230	41.12	5209.36	5250.48	---	---
		5270	41.12	5249.36	5290.48	---	---
		5310	41.20	5289.20	5330.40	---	---
		5755	40.88	5734.44	5775.32	---	---
		5795	41.20	5774.36	5815.56	---	---
11AC80SISO	Ant1	5210	81.12	5169.36	5250.48	---	---
		5290	81.28	5249.36	5330.64	---	---
		5775	81.60	5734.20	5815.80	---	---

4.5. Test graphs

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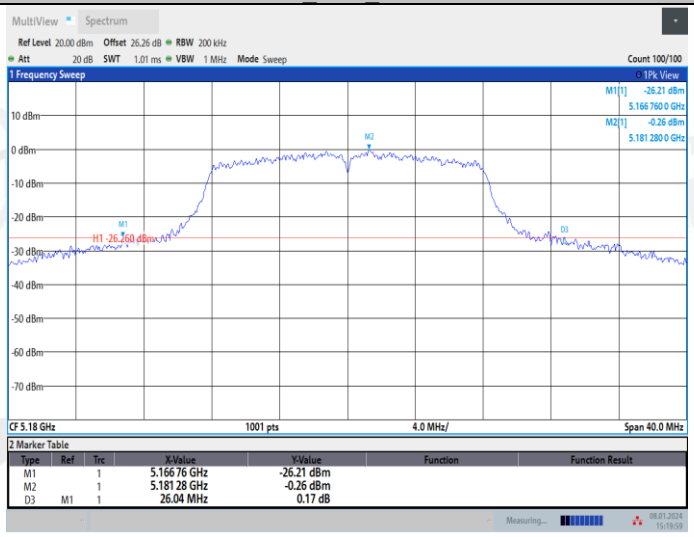
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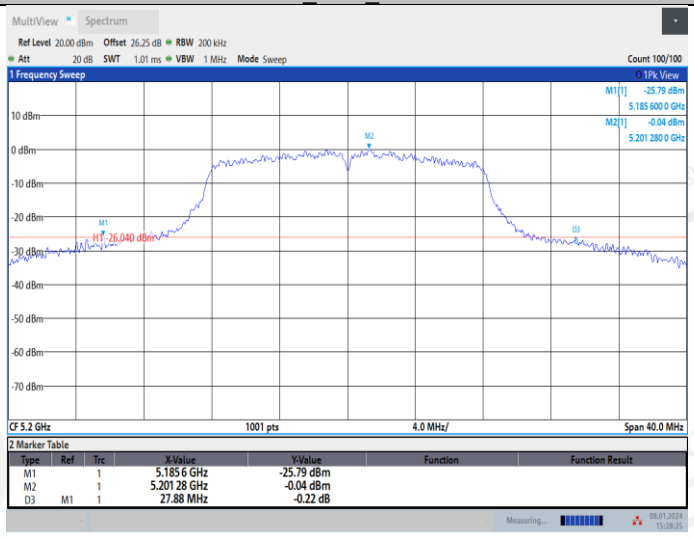
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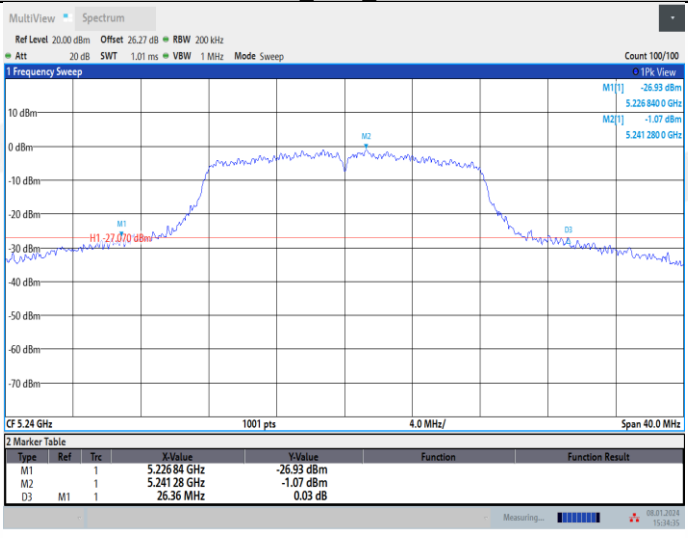
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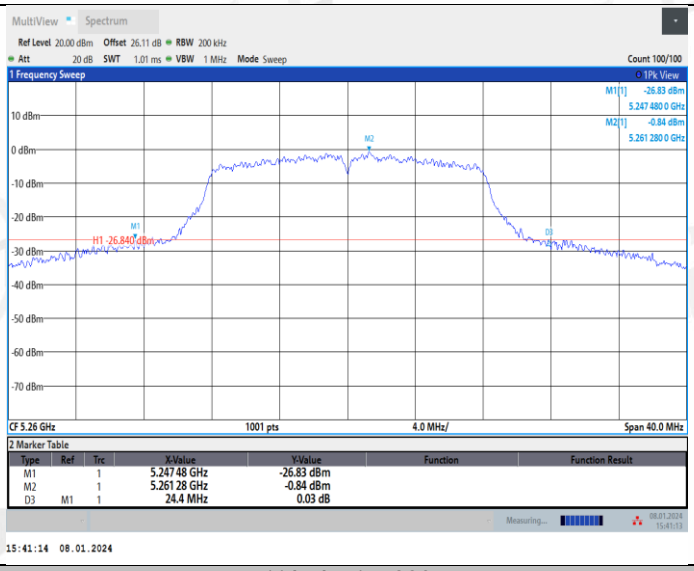

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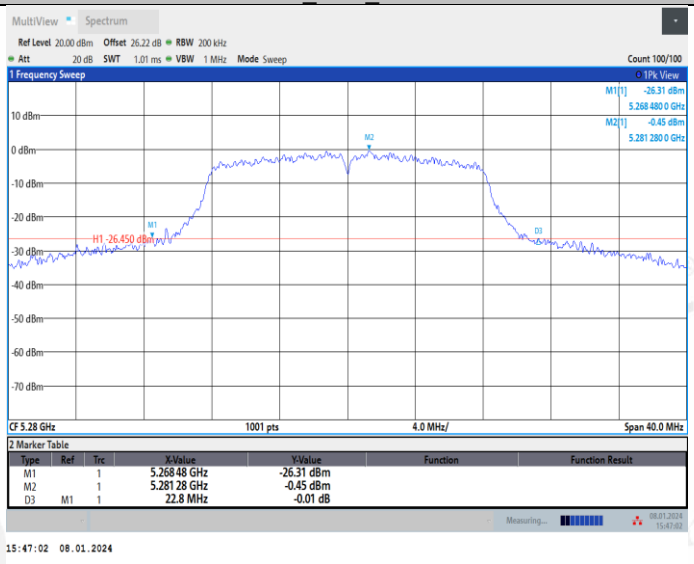

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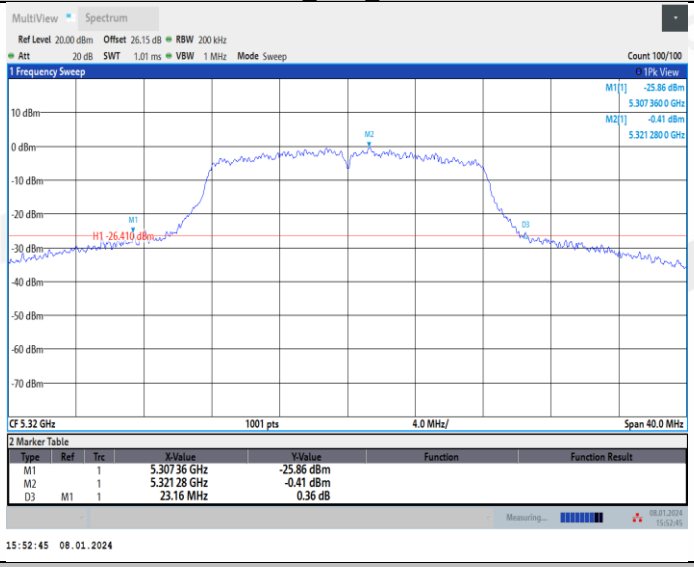

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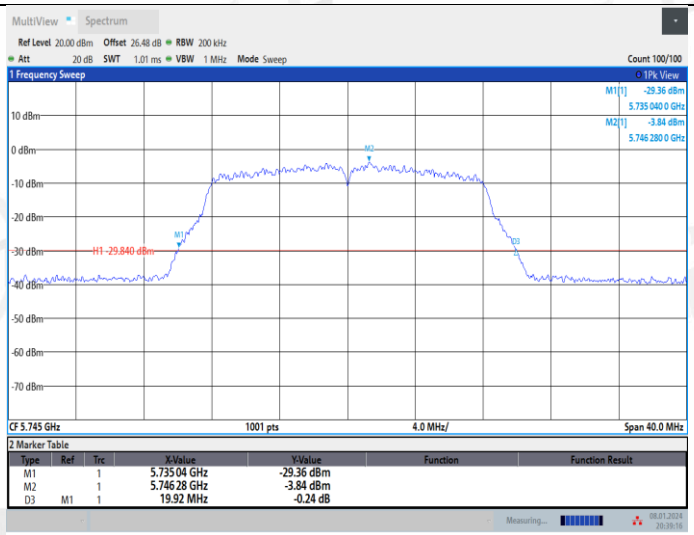

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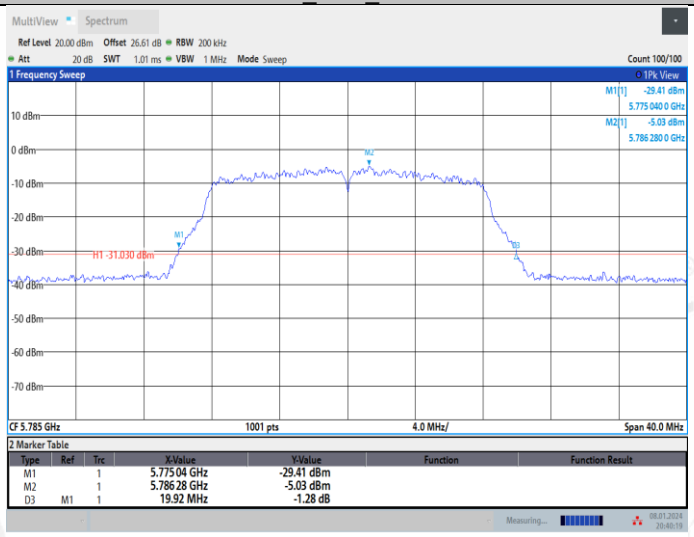

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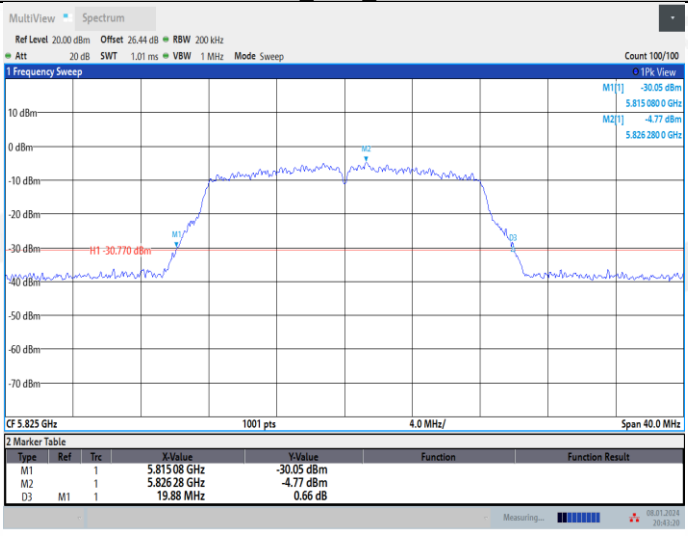

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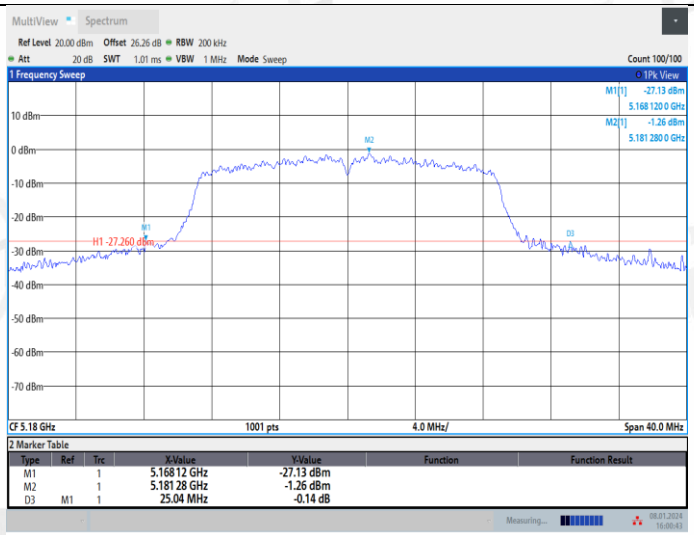

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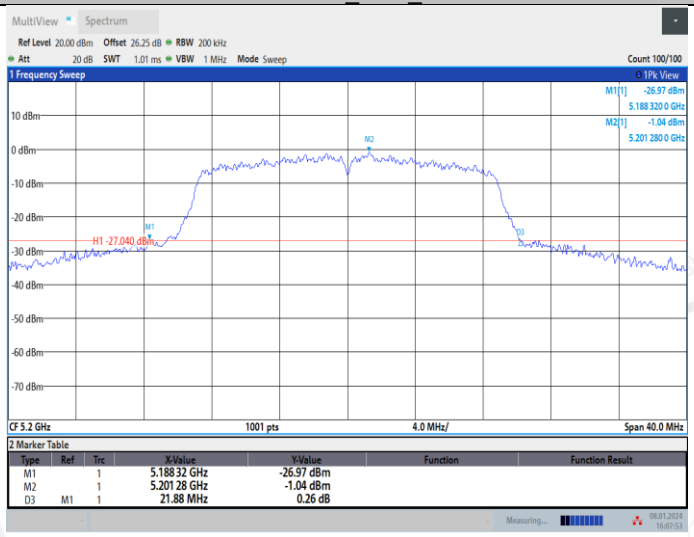

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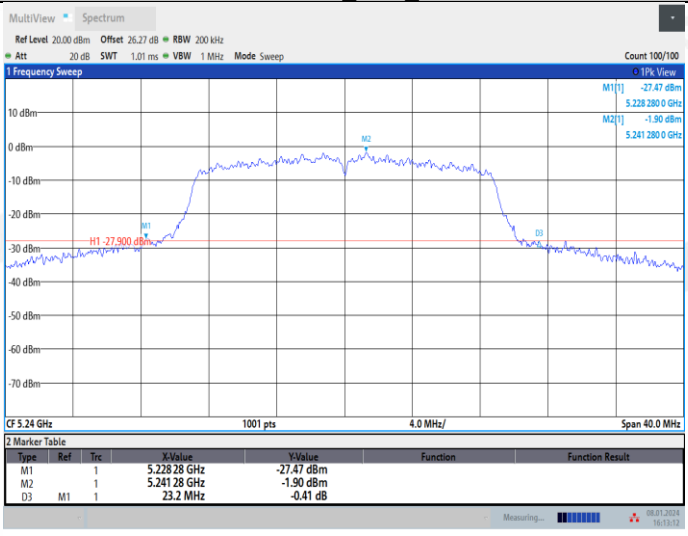

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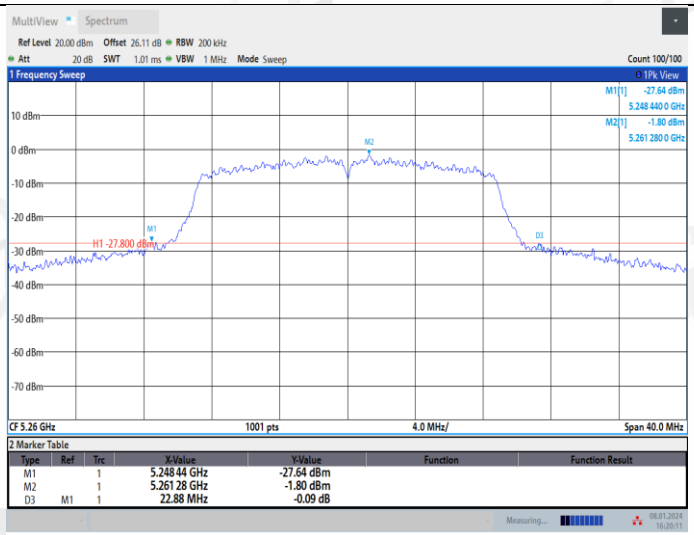

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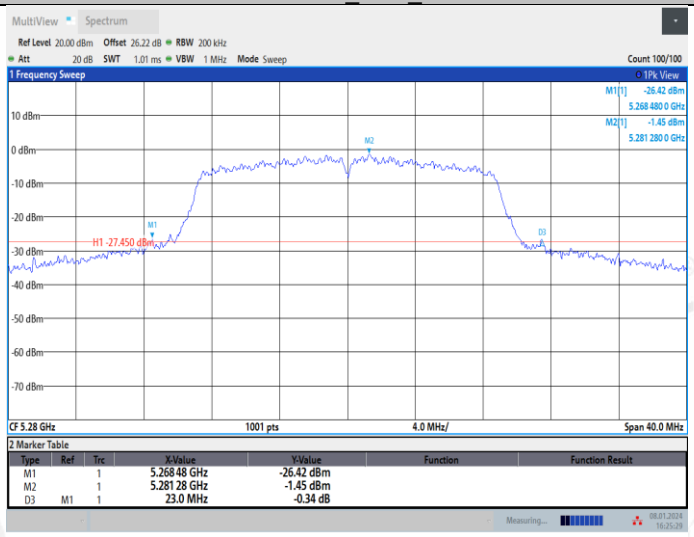

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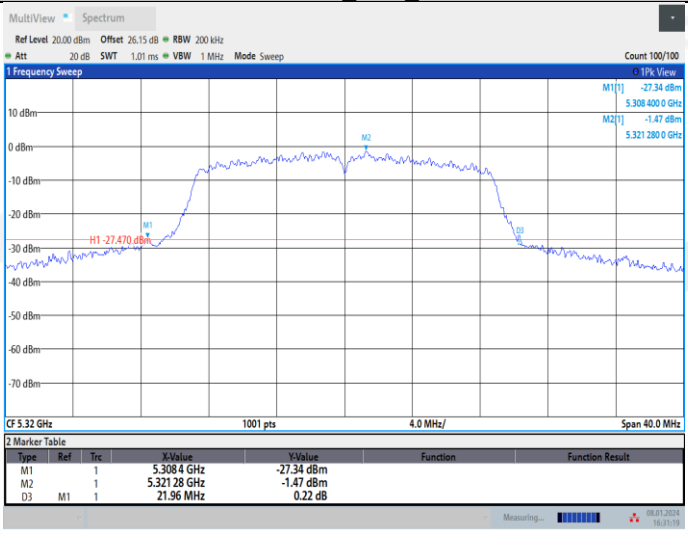

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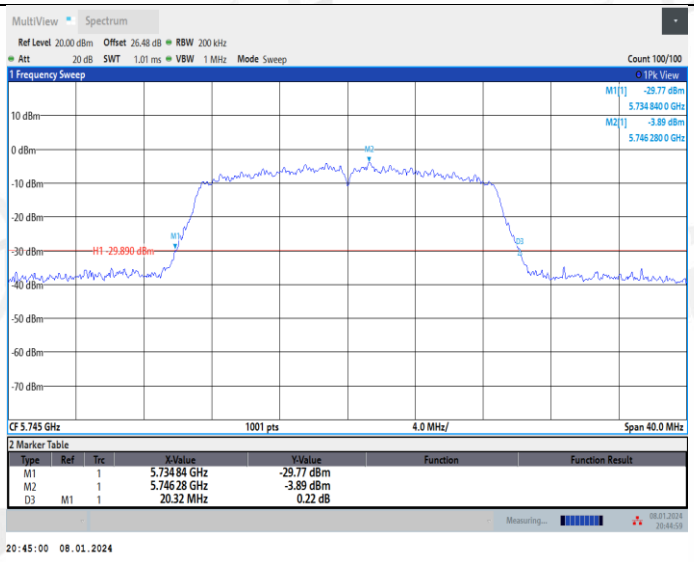

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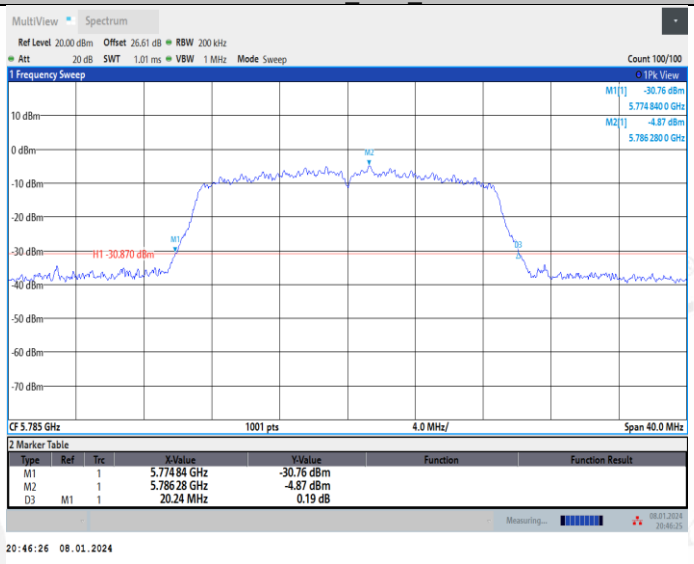

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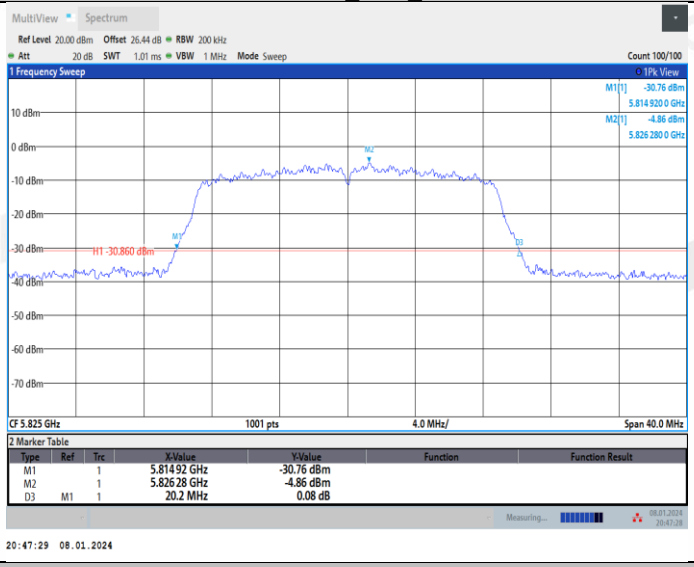

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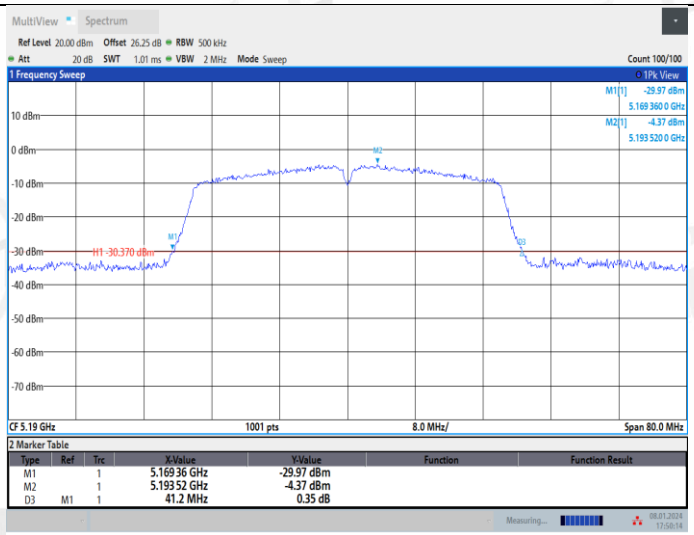

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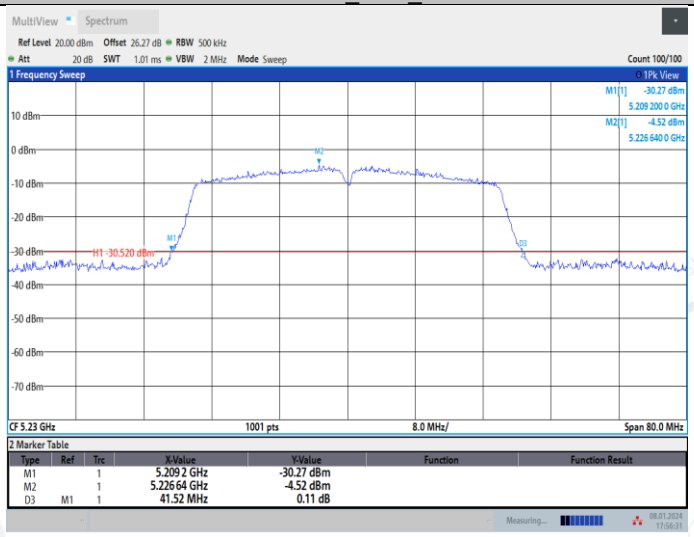

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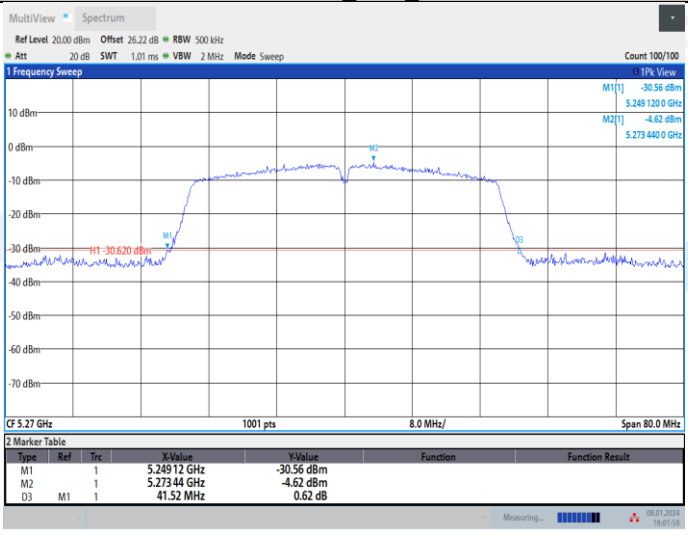

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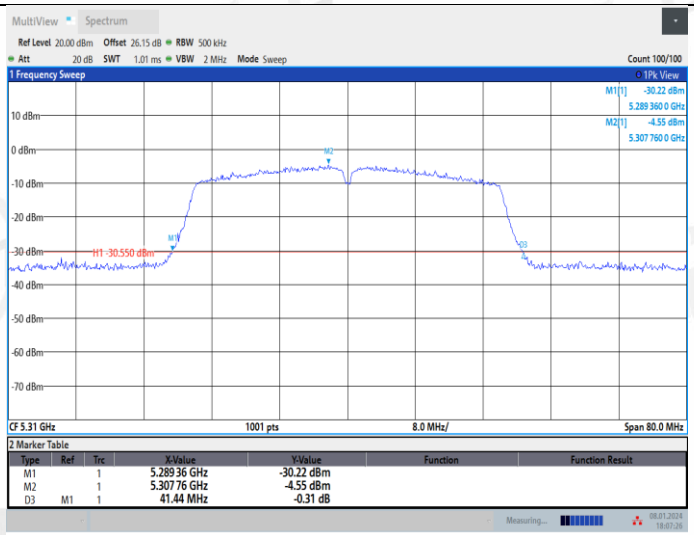

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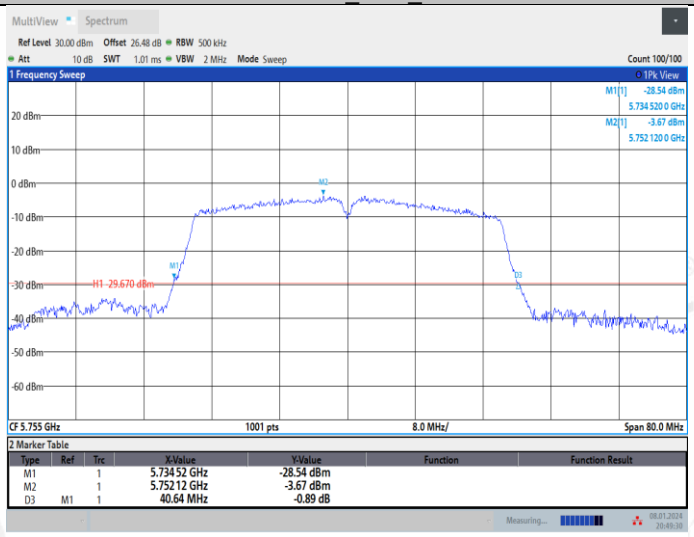

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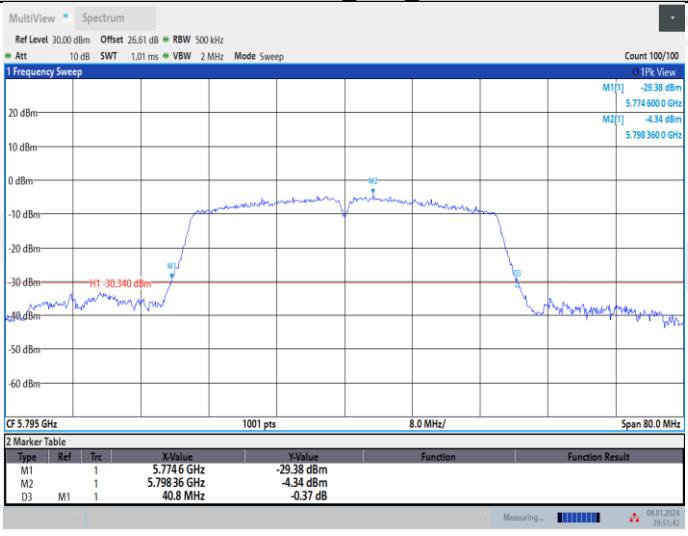

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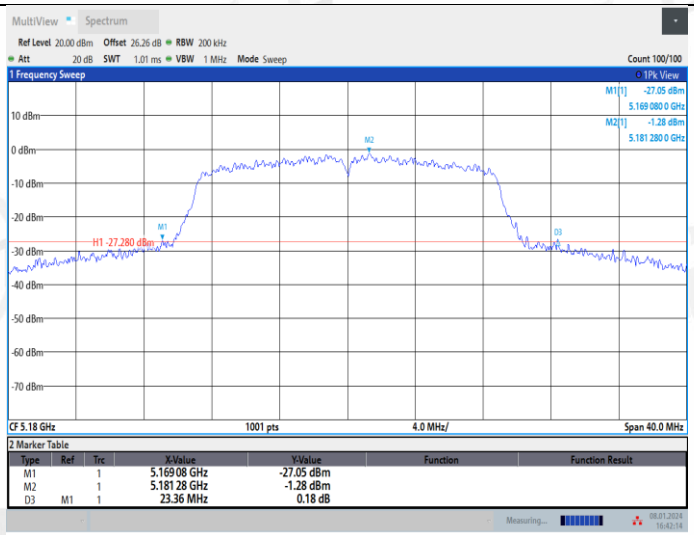

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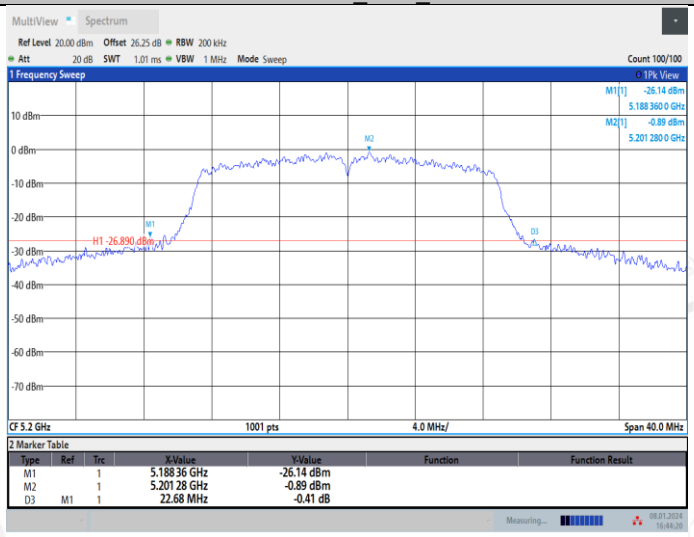

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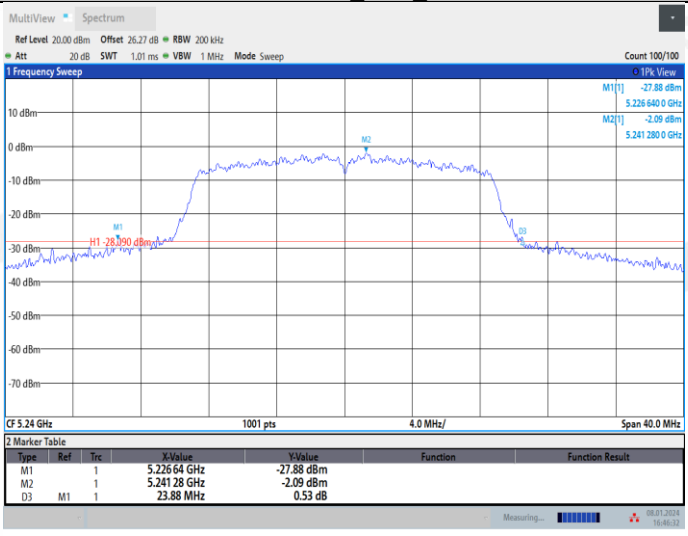

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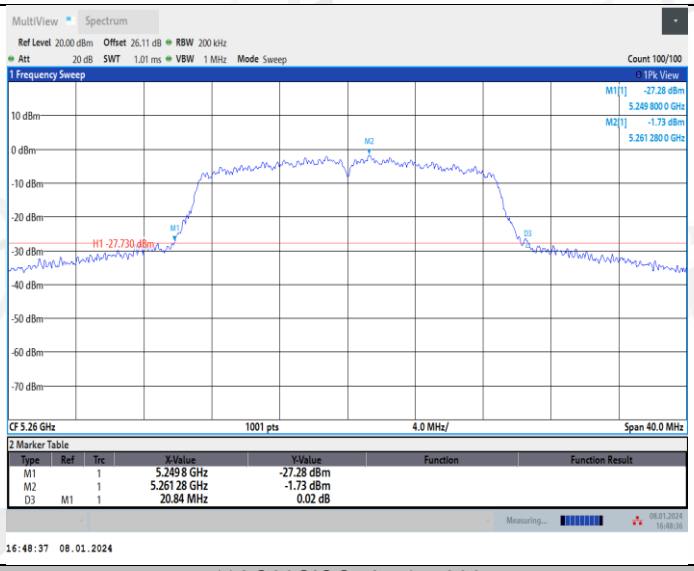

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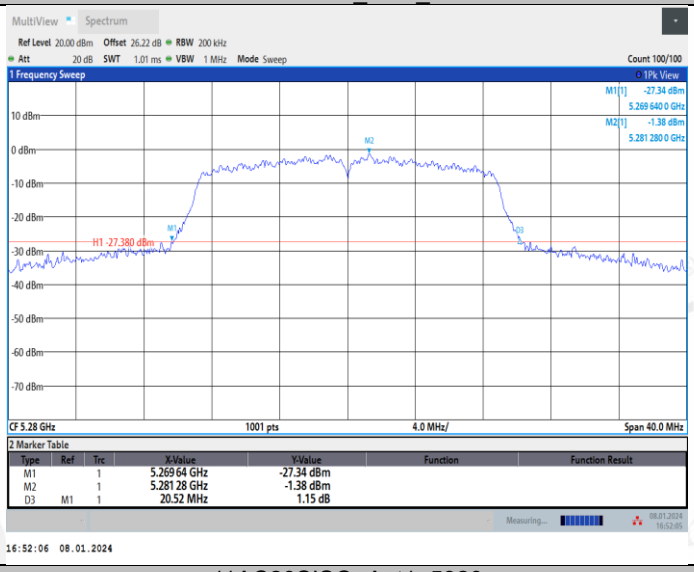

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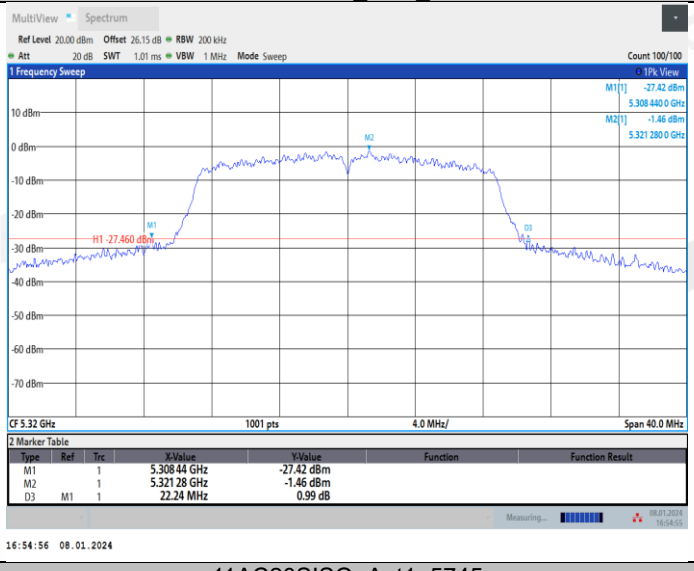

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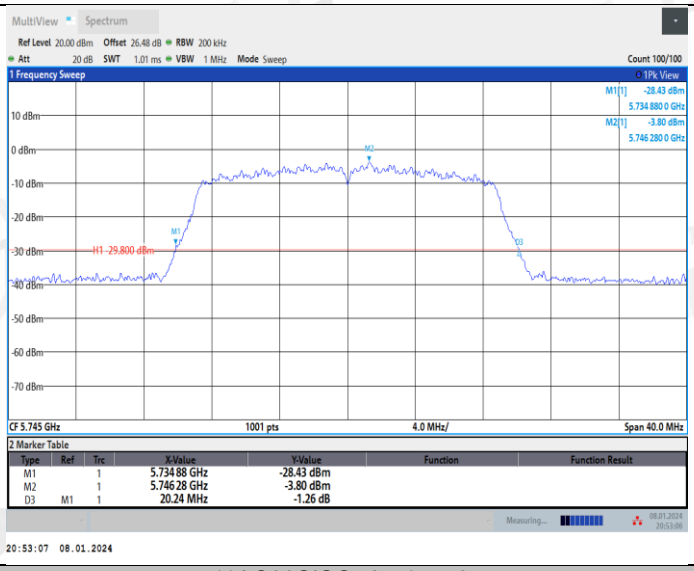

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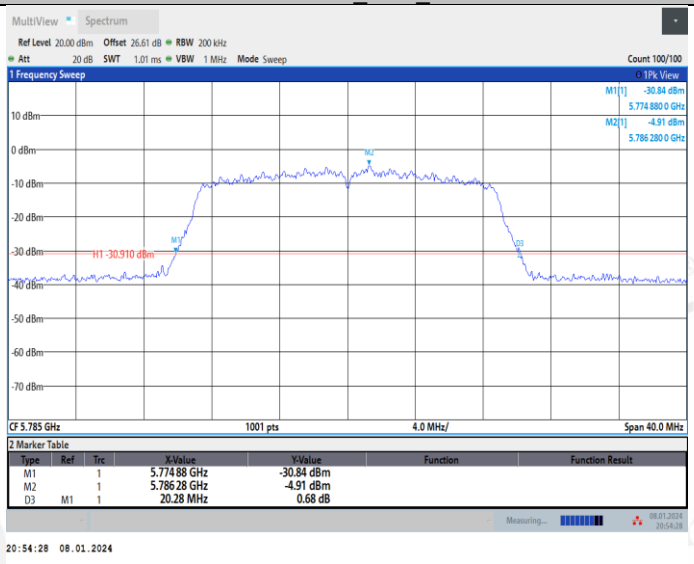

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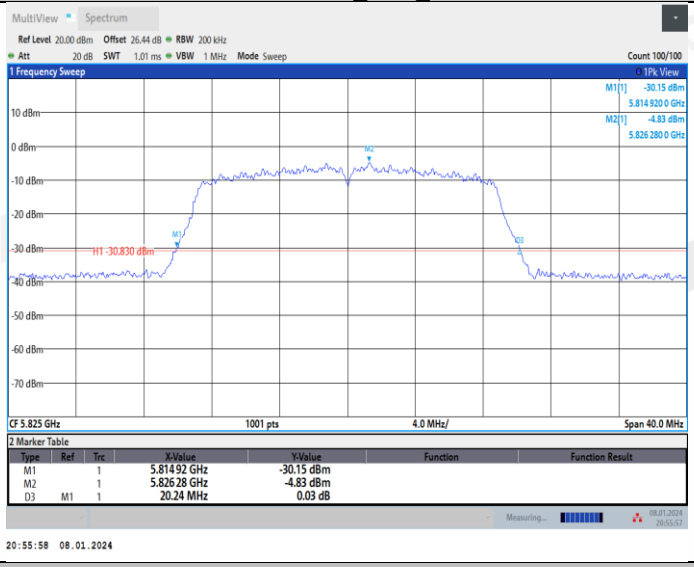

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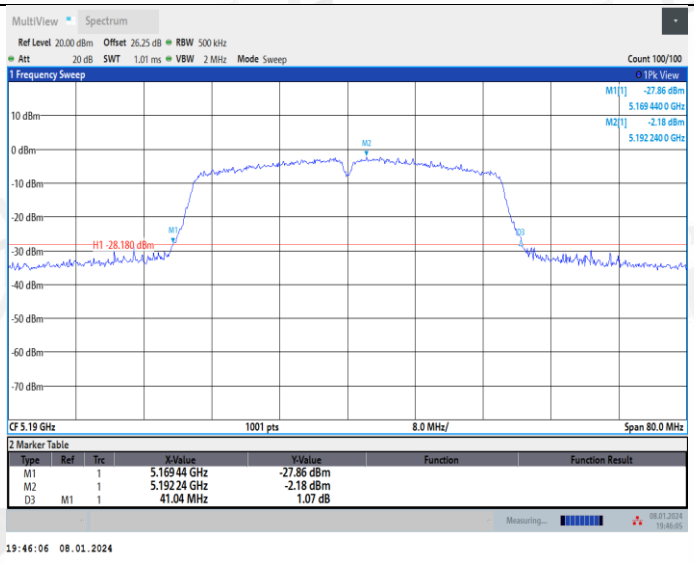

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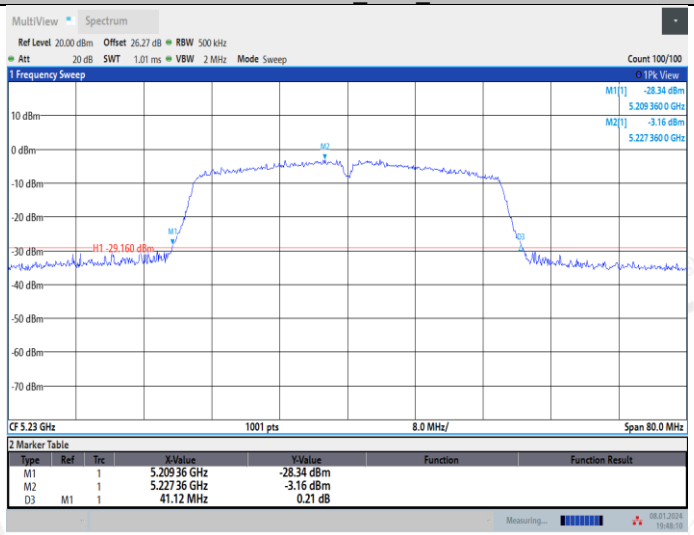

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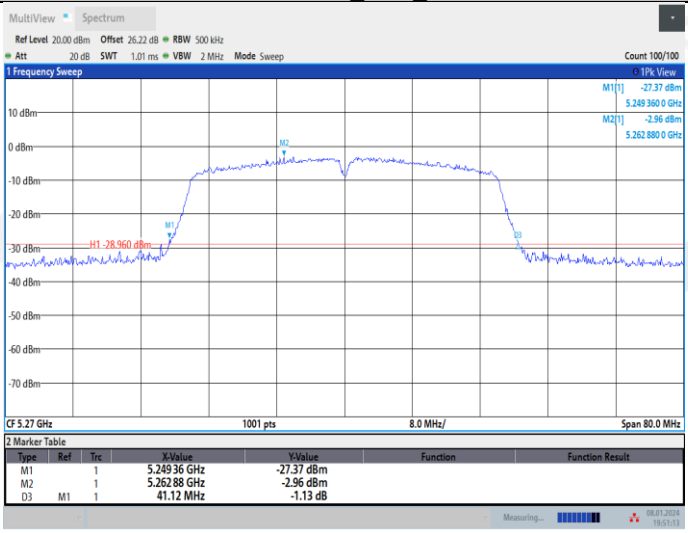

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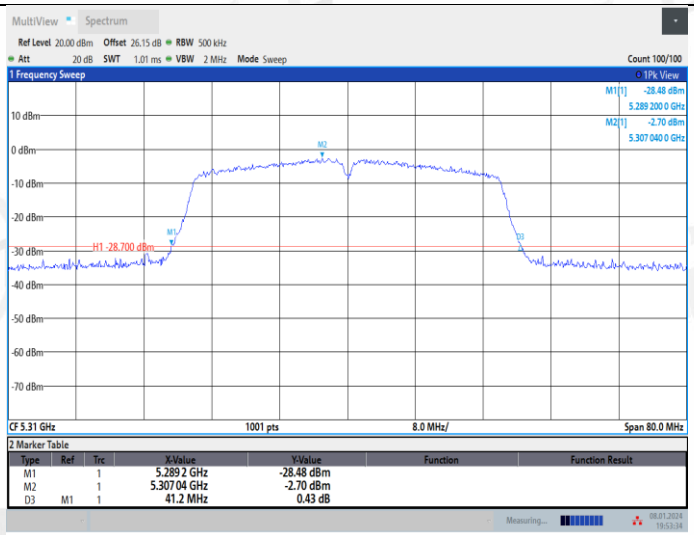

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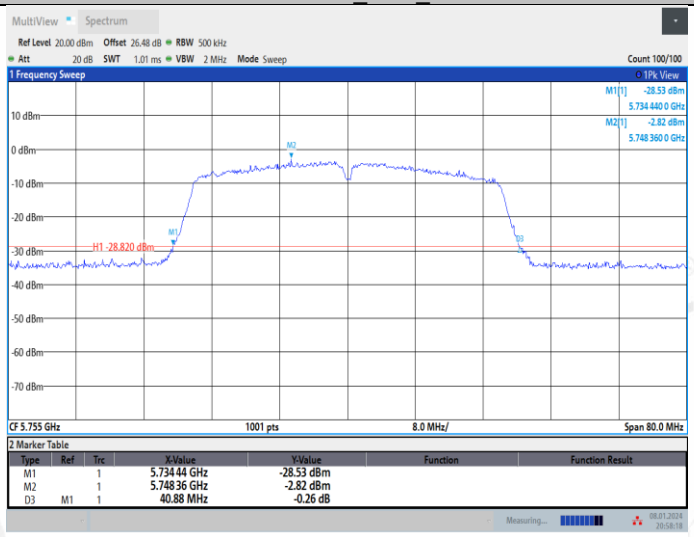

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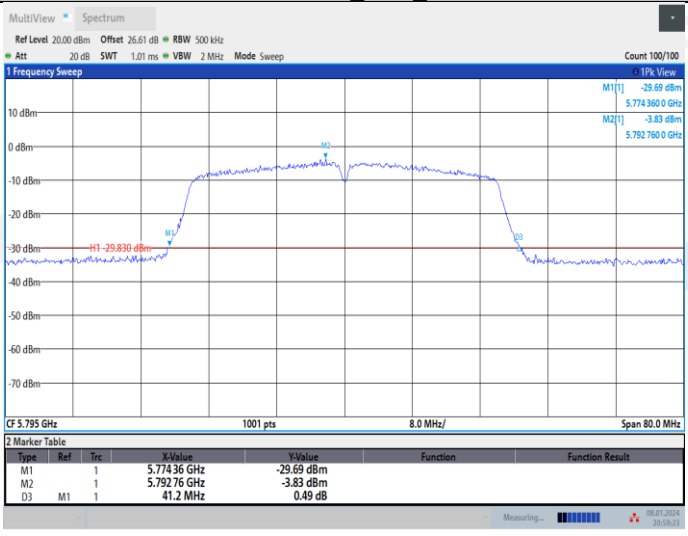

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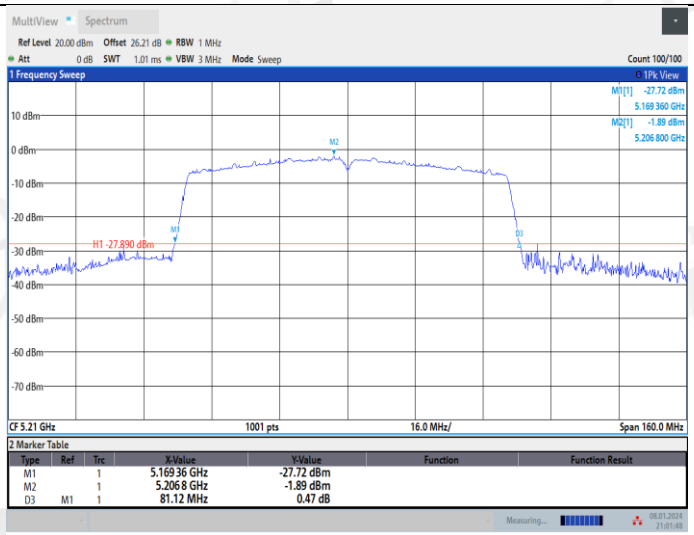

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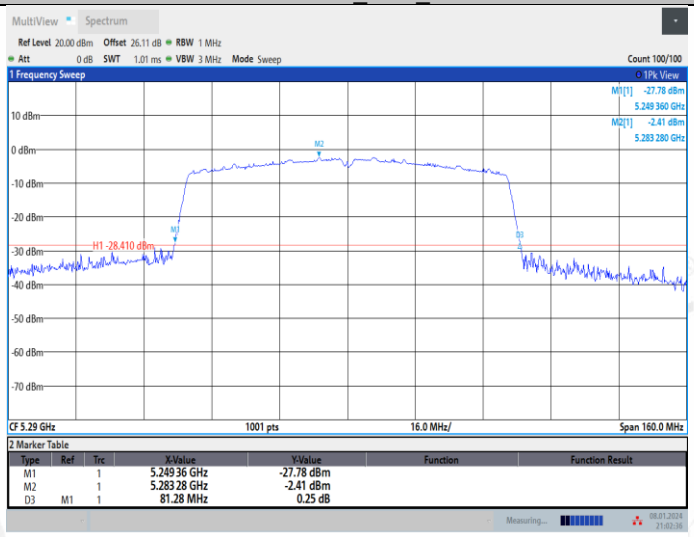

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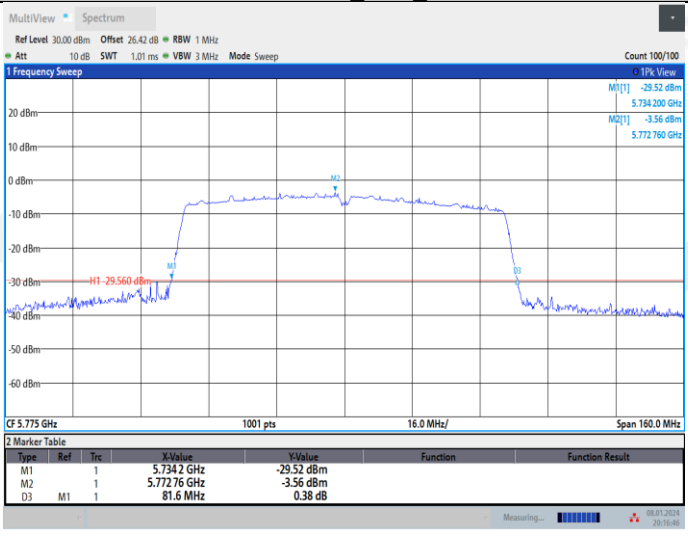
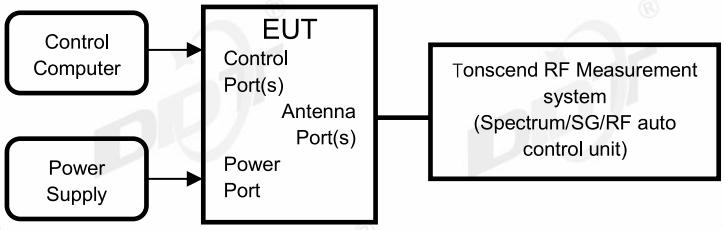


5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E		
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

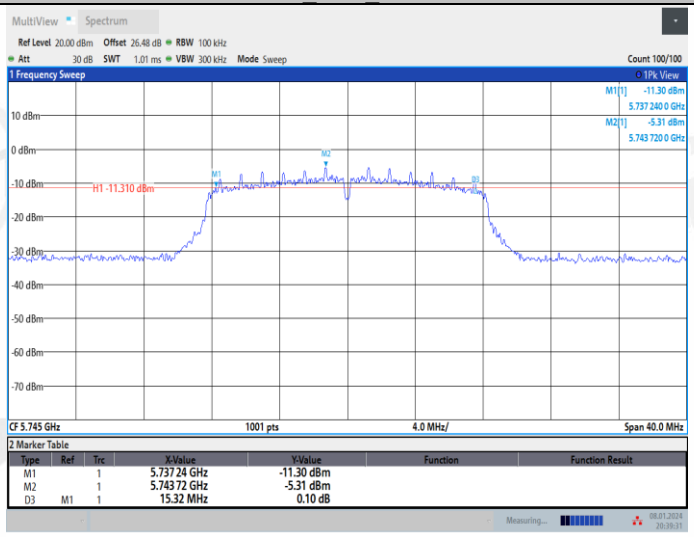
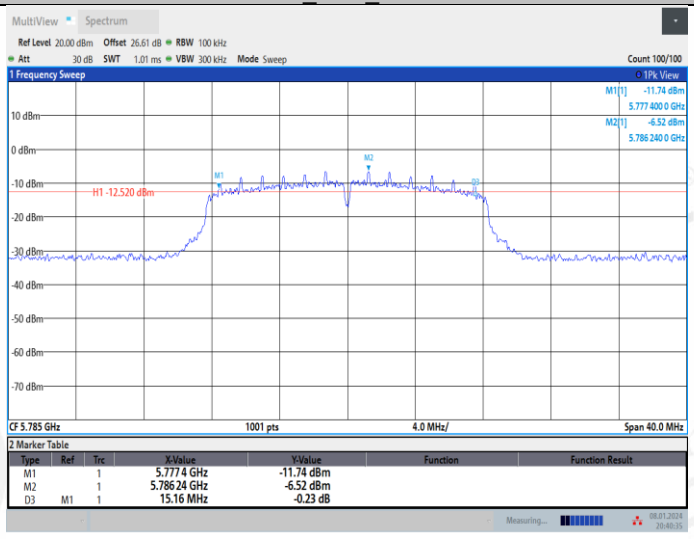
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4. Test result B4

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 4#
Ambient Condition:	25.2℃,45.6%RH	Test Date:	2024.01.08
Test Power Supply:	DC 12V	EUT:	Multimedia
Sample Number:	S23121811-002	Model No.:	Kansas City 150

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.32	5737.24	5752.56	0.5	PASS
		5785	15.16	5777.40	5792.56	0.5	PASS
		5825	15.16	5817.40	5832.56	0.5	PASS
11N20SISO	Ant1	5745	15.16	5737.40	5752.56	0.5	PASS
		5785	15.16	5777.40	5792.56	0.5	PASS
		5825	15.16	5817.40	5832.56	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
		5795	35.12	5777.48	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	15.16	5737.40	5752.56	0.5	PASS
		5785	15.16	5777.40	5792.56	0.5	PASS
		5825	15.16	5817.40	5832.56	0.5	PASS
11AC40SISO	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
		5795	35.12	5777.48	5812.60	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

5.5. Test graphs B4

11A_Ant1_5745

11A_Ant1_5785

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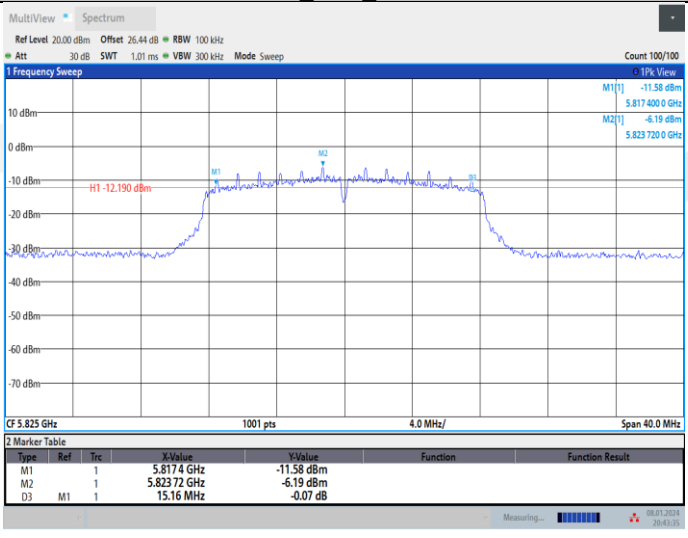
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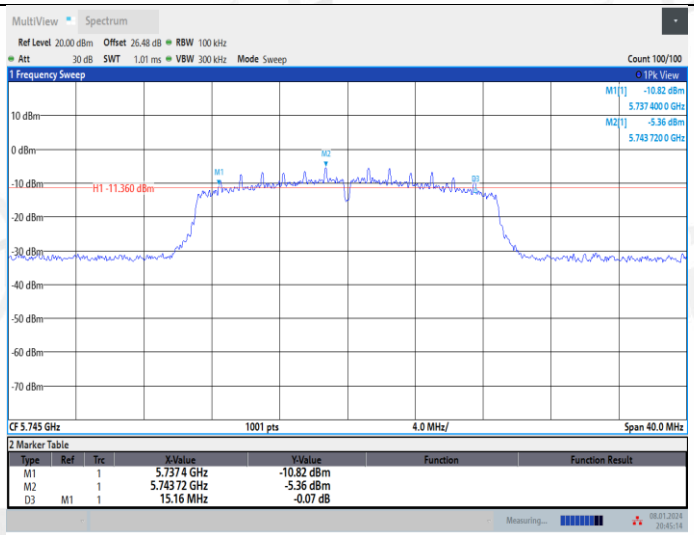

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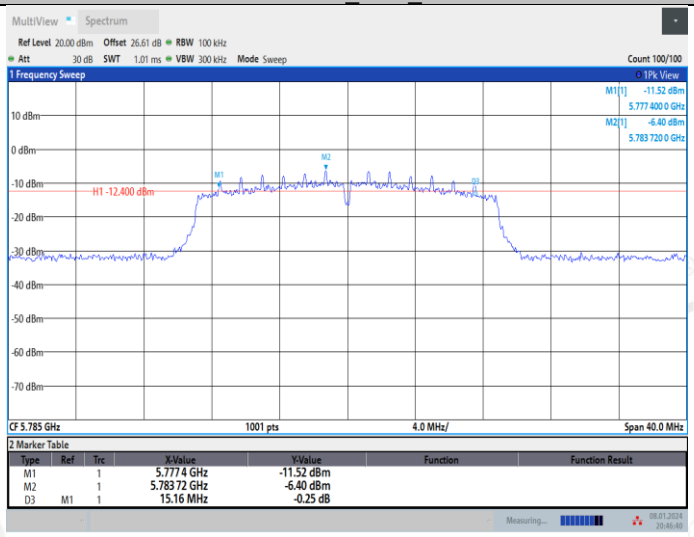

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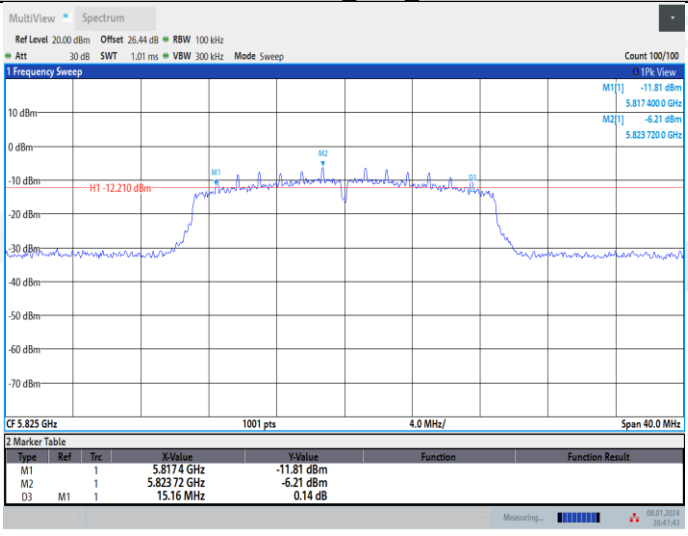

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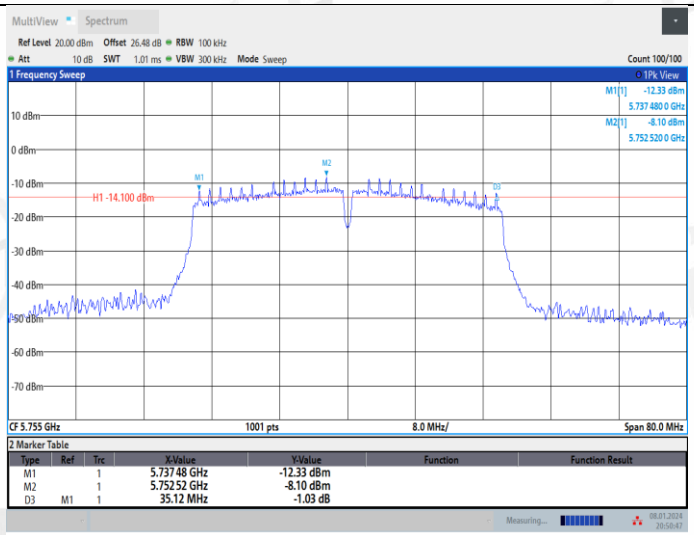

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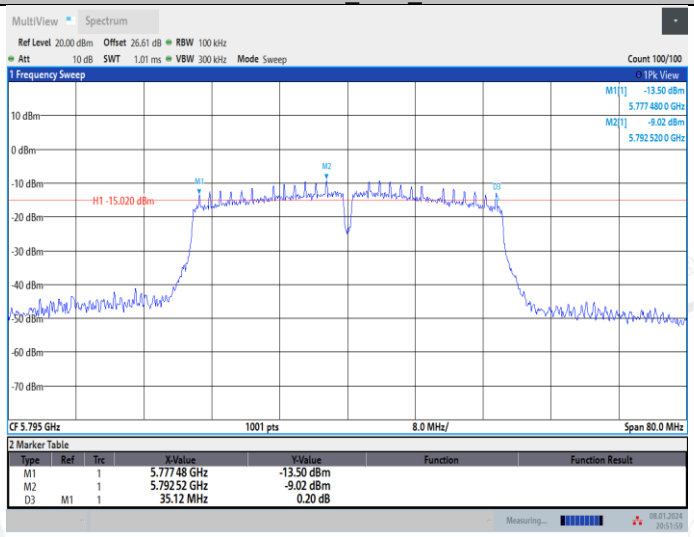

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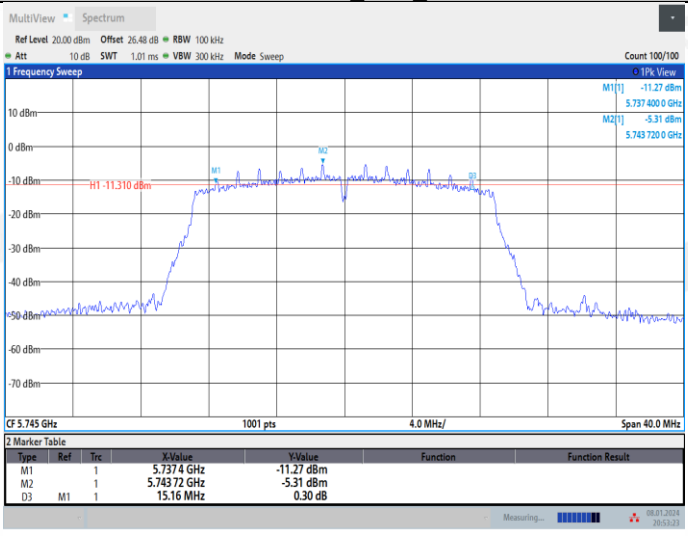

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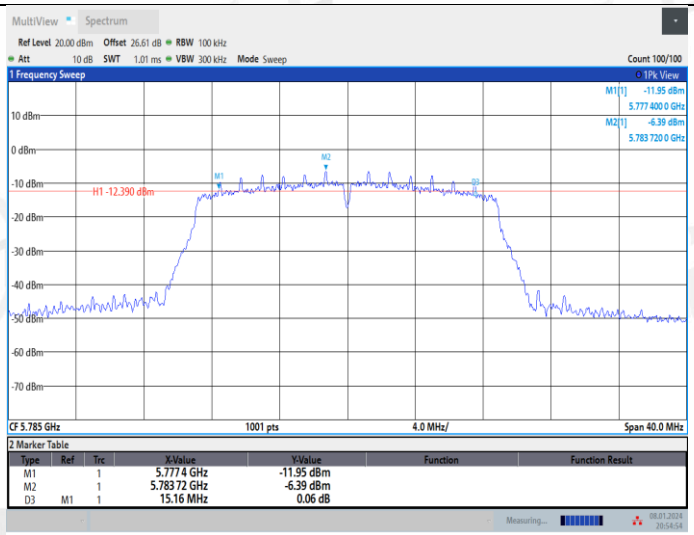

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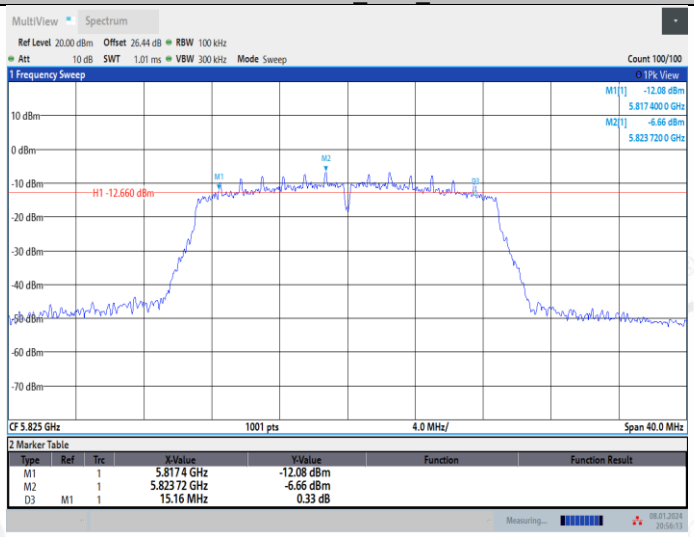

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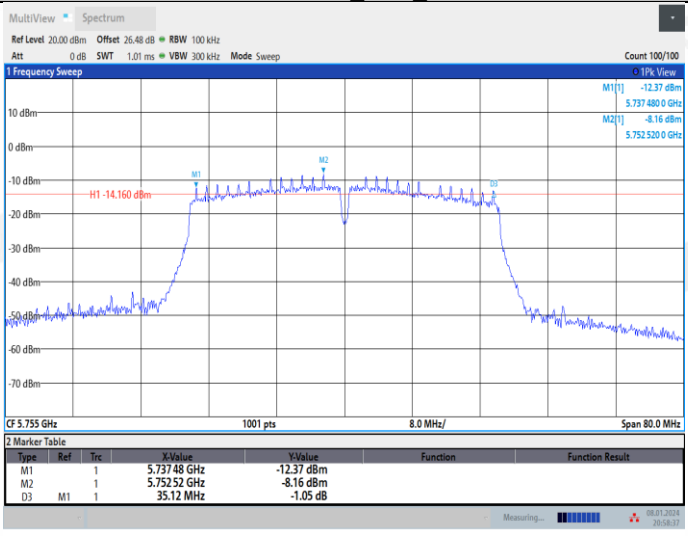

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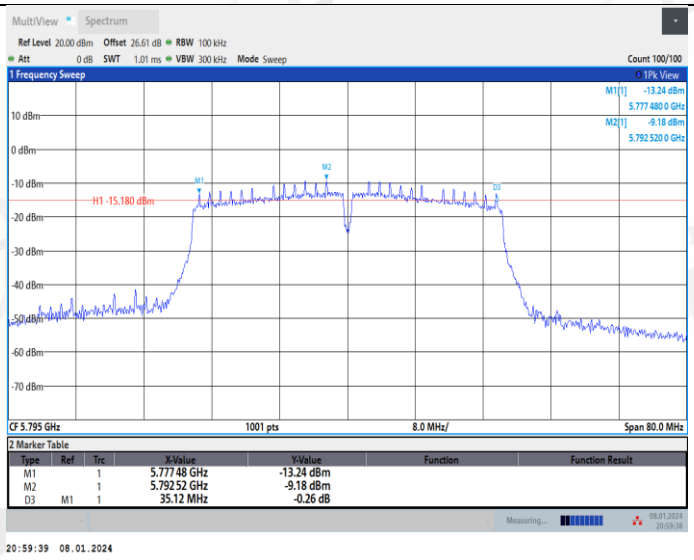
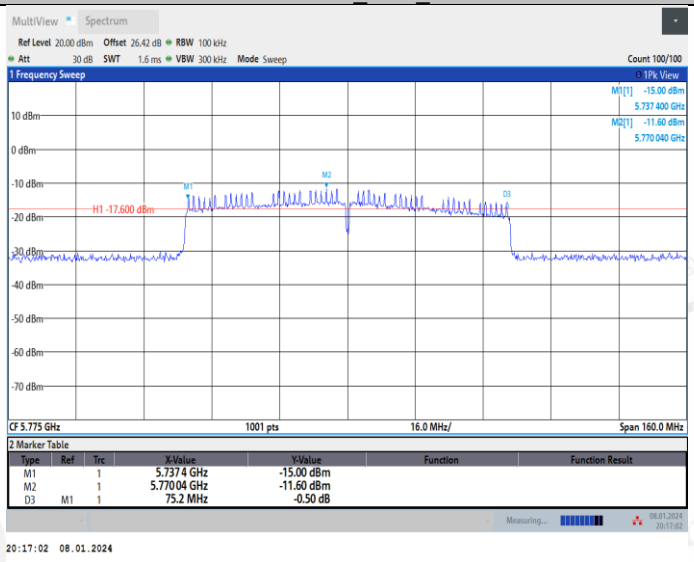
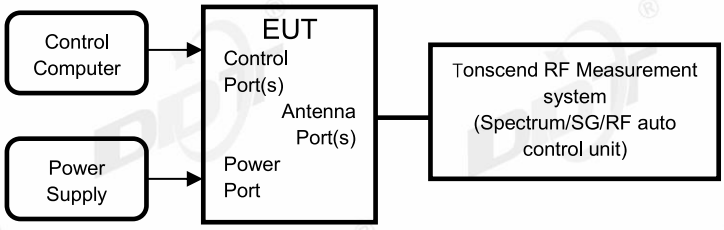


11AC80SISO_Ant1_5775



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

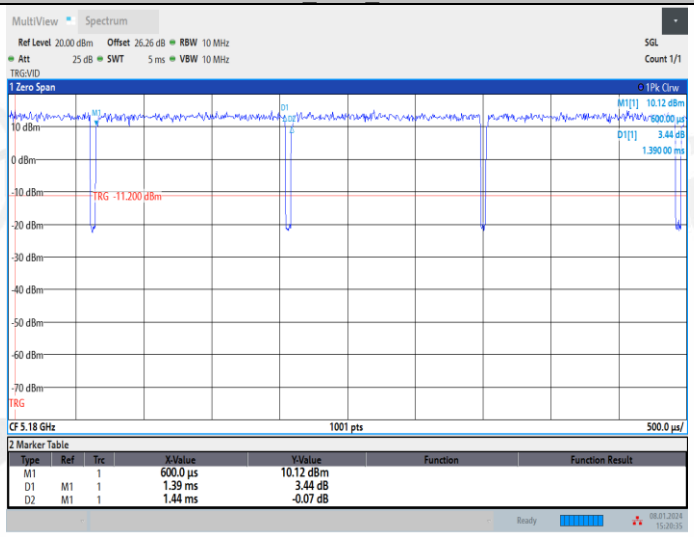
6.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 4#
Ambient Condition:	25.2℃,45.6%RH	Test Date:	2024.01.08
Test Power Supply:	DC 12V	EUT:	Multimedia
Sample Number:	S23121811-002	Model No.:	Kansas City 150

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.39	1.44	96.53
		5200	1.39	1.44	96.53
		5240	1.39	1.44	96.53
		5260	1.39	1.44	96.53
		5280	1.39	1.44	96.53
		5320	1.39	1.43	97.20
		5745	1.39	1.43	97.20
		5785	1.39	1.44	96.53
		5825	1.39	1.43	97.20
11N20SISO	Ant1	5180	1.30	1.34	97.01
		5200	1.30	1.34	97.01
		5240	1.30	1.35	96.30
		5260	1.30	1.35	96.30
		5280	1.30	1.35	96.30
		5320	1.30	1.34	97.01
		5745	1.30	1.35	96.30
		5785	1.30	1.35	96.30
		5825	1.30	1.34	97.01
11N40SISO	Ant1	5190	0.64	0.69	92.75
		5230	0.65	0.69	94.20
		5270	0.65	0.69	94.20
		5310	0.65	0.69	94.20
		5755	0.65	0.69	94.20
		5795	0.64	0.69	92.75
11AC20SISO	Ant1	5180	1.32	1.36	97.06
		5200	1.31	1.36	96.32
		5240	1.31	1.35	97.04
		5260	1.31	1.35	97.04
		5280	1.31	1.35	97.04
		5320	1.31	1.36	96.32
		5745	1.31	1.36	96.32
		5785	1.31	1.35	97.04
		5825	1.31	1.36	96.32
11AC40SISO	Ant1	5190	0.65	0.69	94.20
		5230	0.65	0.69	94.20
		5270	0.65	0.69	94.20
		5310	0.65	0.69	94.20
		5755	0.65	0.69	94.20
		5795	0.65	0.70	92.86
11AC80SISO	Ant1	5210	0.32	0.37	86.49
		5290	0.32	0.37	86.49
		5775	0.32	0.37	86.49

6.5. Test graphs

11A_Ant1_5180



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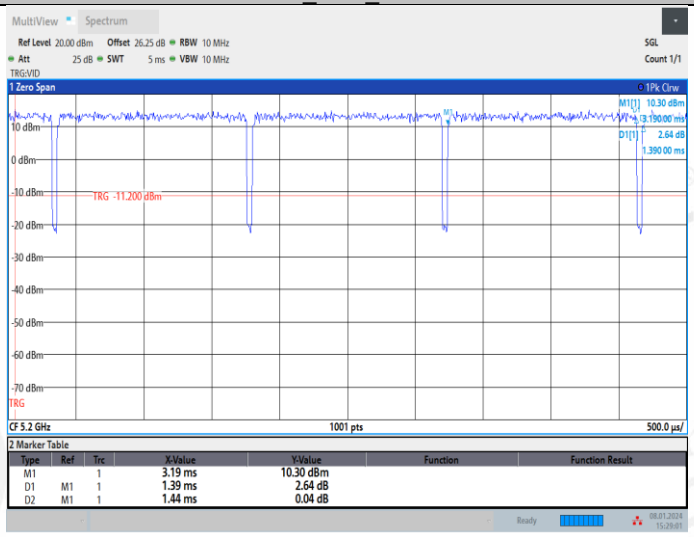

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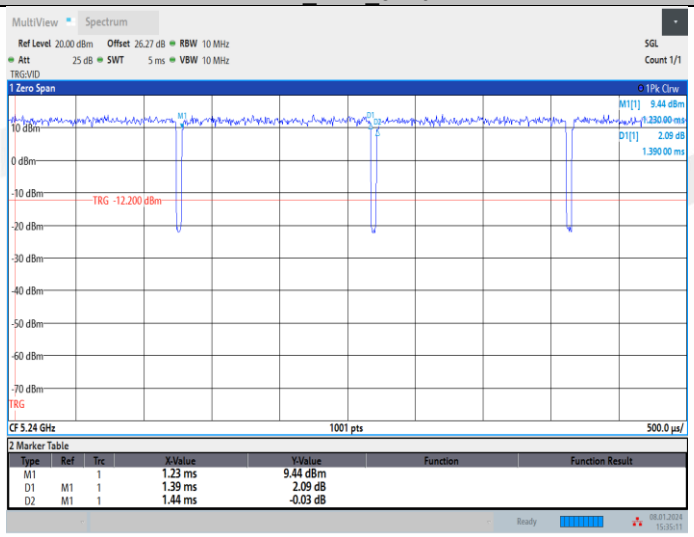

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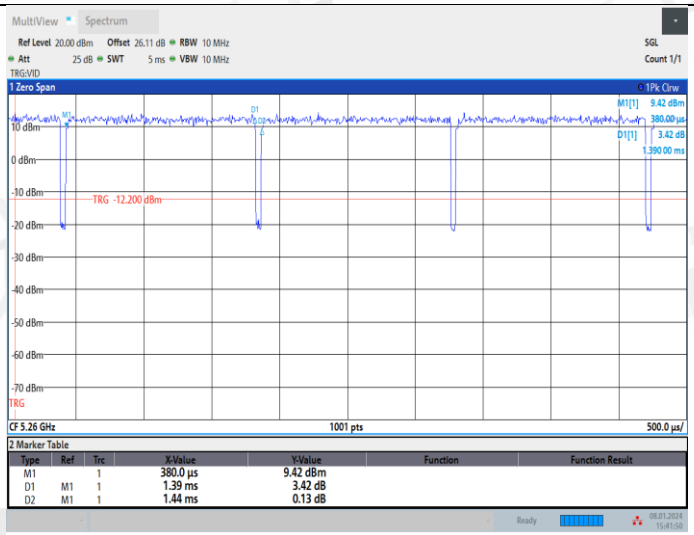
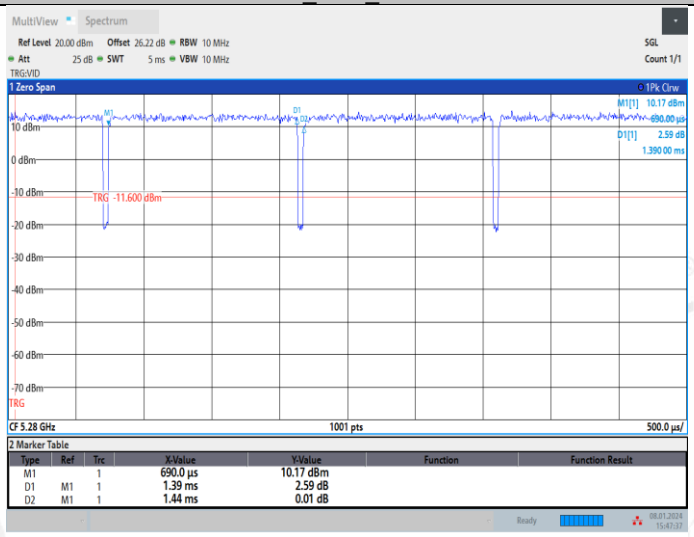


11A_Ant1_5280



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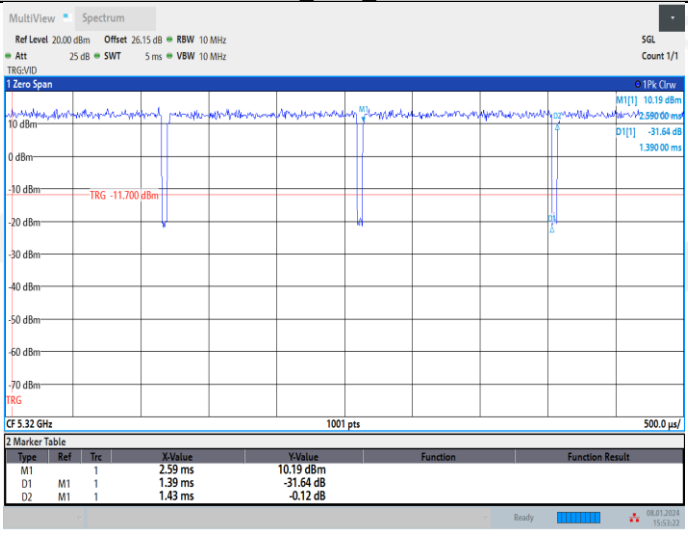

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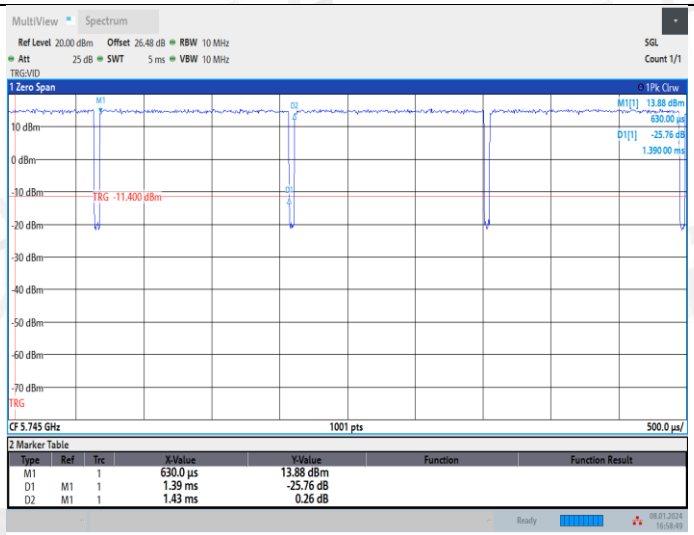

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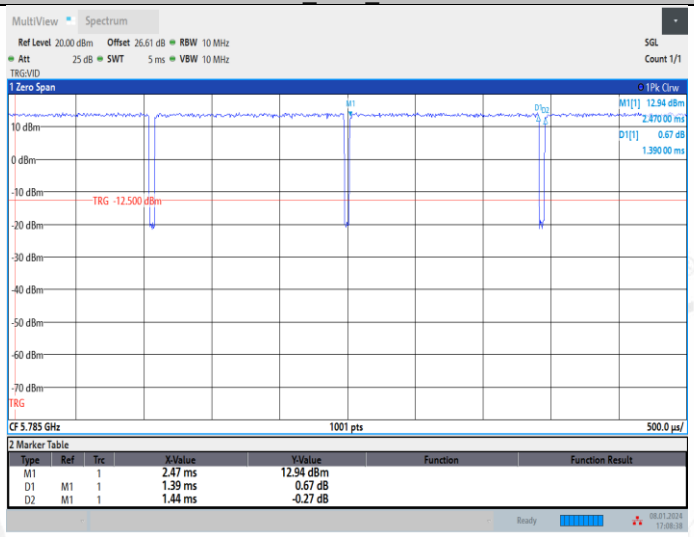

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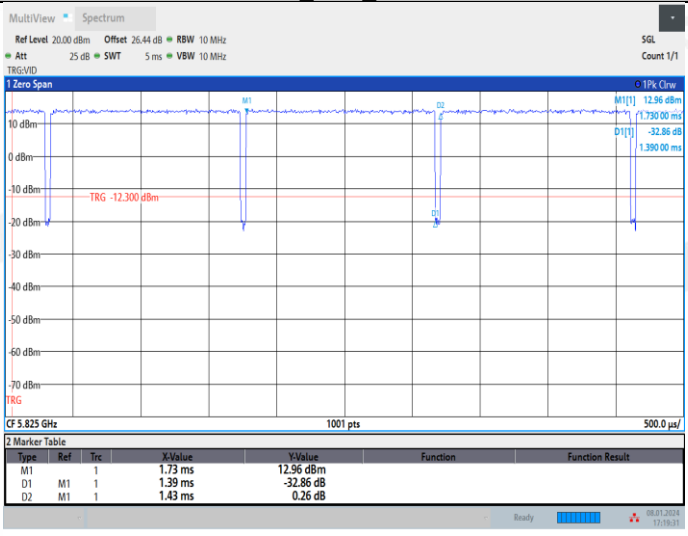

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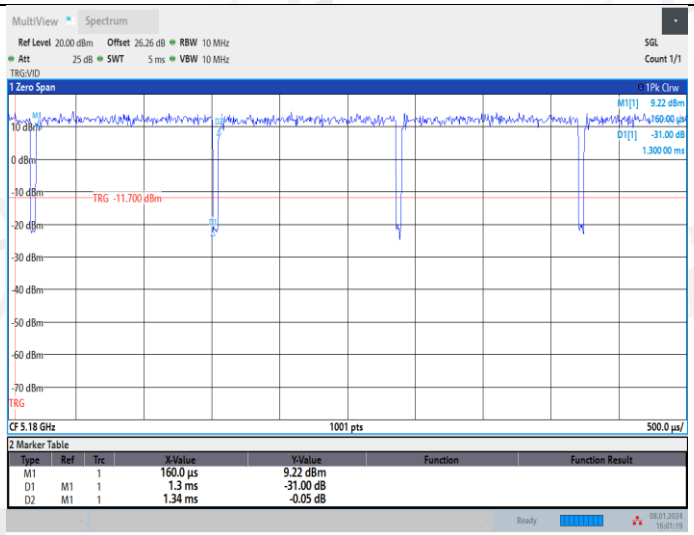

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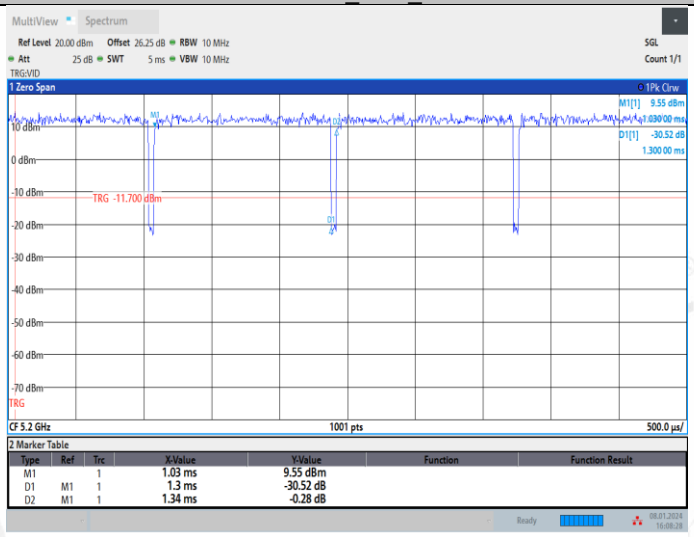

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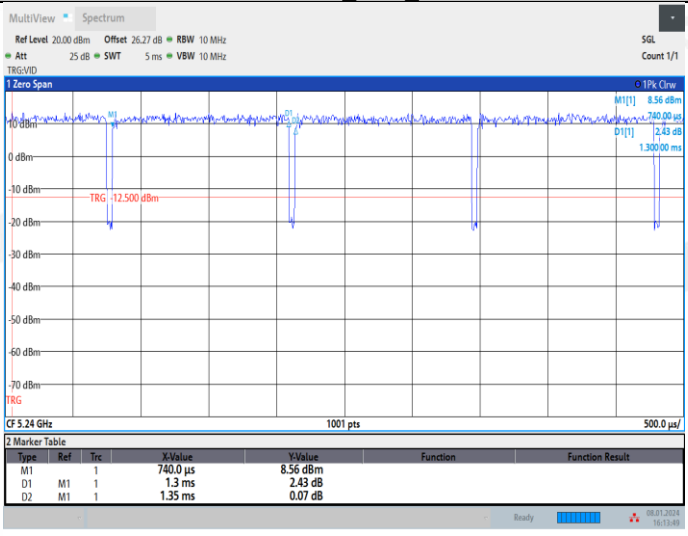

11N20SISO_Ant1_5260