FCC PART 15E
TEST REPORT
No.24T04Z200299-007

for

Samsung Electronics Co., Ltd.

Multi-band GSM/WCDMA/LTE/5GNR Mobile Phone with Bluetooth,WLAN

SM-A066M/DS,SM-A066M

FCC ID:ZCASMA066M

with

Hardware Version: REV1.0

Software Version: A066M.001

Issued Date: 2024-12-30

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z200299-007	Rev.0	1st edition	2024-12-30

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China100191

Radiated testing Location: CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, P. R. China 100176

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2024-11-20

Testing End Date: 2024-12-30

1.5. Signature

Yao Xingyu

(Prepared this test report)

Zheng Wei

(Reviewed this test report)

Pang Shuai

(Approved this test report)

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2. Client Information

2.1. Applicant Information

Company Name	Samsung Electronics Co., Ltd.
Address	19 Chapin Rd.,Building D Pine Brook, NJ 07058
Contact	Jenni Chun
Email	j1.chun@samsung.com
Tel.	+1-201-937-4203
Fax	/

2.2. Manufacturer Information

Company Name	Samsung Electronics Co., Ltd.
Address	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
Contact	Kobe Cho
Email	ggobi.cho@samsung.com
Tel.	+82 - 10 - 2722 - 4159
Fax:	/

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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Multi-band GSM/WCDMA/LTE/5GNR Mobile Phone with Bluetooth,WLAN
Model name	SM-A066M/DS,SM-A066M
FCC ID	ZCASMA066M
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Nominal Voltage	3.88V
Extreme High Voltage	4.3V
Extreme Low Voltage	3.6V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT14a	2404200299UT14a	REV1.0	A066M.001	2024-11-27
UT31a	2404200299UT31a	REV1.0	A066M.001	2024-11-20

*EUT ID: is used to identify the test sample in the lab internally.

UT14a is used for Conduction test, UT31a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Name	Model	Manufacturer
AE1	Battery	HQ-7160NA	Ningde Amperex Technology Limited
AE2*	Adapter	EP-TA800	DONGGUAN SOLUM ELECTRONICS CO.,LTD
AE3-1	Date Cable1 C-C	EP-DN980BWE	GUANGXI BROAD TELECOMMUNICATION CO.,LTD
AE3-2	Date Cable2 C-C	EP-DN980BWE	Cresyn Electronics(Dongguan)Co.,Ltd.

*AE ID: is used to identify the test sample in the lab internally.

*AE2 is not the AE for EUT, provided by the lab for relevant tests.

3.4. General Description

The Equipment under Test (EUT) is a model of Multi-band GSM/WCDMA/LTE/5GNR Mobile Phone with Bluetooth,WLAN with integrated antenna and inbuilt battery.

It consists of normal options: travel charger, USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

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3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor k=2.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. Laboratory Environment

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

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6. Test Results

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	**P**
Peak Power Spectral Density	15.407	/	**P**
26dB Emission Bandwidth	15.403	/	**P**
Radiated Unwanted Emission	15.407, 15.205, 15.209	/	**P**
AC Powerline Conducted Emission	15.107, 15.207	/	**P**
99% Occupied bandwidth	/	/	**P**
Transmit Power Control	15.407	/	**NA**

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.88V
Humidity	44%

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7. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2025-08-12
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-01
3	Attenuator	10dB/2W	/	Rosenberger	/	/
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100376	R&S	1 year	2025-06-06
2	Test Receiver	FSV40	101047	R&S	1 year	2025-07-28
3	Loop Antenna	HFH2-Z2	829324/007	R&S	2 years	2026-01-04
4	EMI Antenna	VULB9163	235	Schwarzbeck	1 year	2025-08-27
5	EMI Antenna	3115	00167252	ETS-Lindgren	1 year	2025-03-17
6	EMI Antenna	3117	00119021	ETS-Lindgren	1 year	2025-09-18
7	EMI Antenna	LB-180400-25-C-KF	2110084000006	A-INFO	1 year	2025-05-15

AC Power Line Conducted Emission

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101459	R&S	1 year	2025-05-16
2	Test Receiver	ESCI	100766	R&S	1 year	2025-04-18

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8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 26dB Emission Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤3.6GHz	1.22
3.6GHz ≤ f ≤8GHz	1.22
8GHz ≤ f ≤12.75GHz	1.51
12.75GHz ≤ f ≤26GHz	1.51
26GHz ≤ f ≤40GHz	1.59

8.6 Radiated Unwanted Emission

Frequency Range	Uncertainty(dB) (k=2)
9kHz-30MHz	3.96
30MHz ≤ f ≤ 1GHz	5.73
1GHz ≤ f ≤18GHz	5.58
18GHz ≤ f ≤40GHz	3.37

8.7 AC Power-line Conducted Emission

Measurement Uncertainty: 3.10dB, k=2

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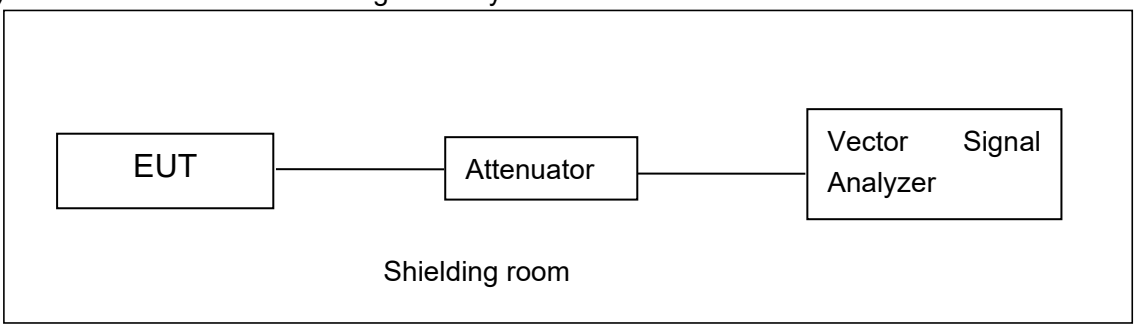
ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

1). Connect the EUT to the test system correctly.
2). Set the EUT to the required work mode.
3). Set the EUT to the required channel.
4). Set the spectrum analyzer to start measurement.
5). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

Measurement performed according to Clause 6.4, 6.5, 6.6 in ANSI C63.10 and II.G.4, II.G.5, II.G.6 in KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated from 0° to 360°and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientations

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A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurementmethod SA-2 is made according to KDB 789033

A.2.1 Antenna Gain

Antenna gain is UNII-1:-4.2dBi,UNII-2A:-4.5dBi,UNII-2C:-4.7dBi,and the value is supplied by the applicant or manufacturer.

A.2.2 Maximum output Power-Conducted

EUT ID: UT14a

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	16.72	16.61	16.54	16.44	16.03	15.57	15.46	15.45
	5200MHz	17.12	/	/	/	/	/	/	/
	5240MHz	17.31	/	/	/	/	/	/	/
	5260MHz	17.30	/	/	/	/	/	/	/
	5280MHz	17.71	/	/	/	/	/	/	/
	5320MHz	17.25	/	/	/	/	/	/	/
	5500MHz	15.41	/	/	/	/	/	/	/
	5580MHz	17.21	/	/	/	/	/	/	/
	5700MHz	13.80	/	/	/	/	/	/	/
	5720MHz	17.14	/	/	/	/	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz	16.66	16.03	16.02	15.42	15.07	14.59	14.48	14.03
	5200MHz	16.84	/	/	/	/	/	/	/
	5240MHz	16.68	/	/	/	/	/	/	/
	5260MHz	16.75	/	/	/	/	/	/	/
	5280MHz	17.07	/	/	/	/	/	/	/

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	5320MHz	16.35	/	/	/	/	/	/	/
	5500MHz	15.26	/	/	/	/	/	/	/
	5580MHz	16.00	/	/	/	/	/	/	/
	5700MHz	13.44	/	/	/	/	/	/	/
	5720MHz	16.86	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (VHT20)	5180MHz	16.86	16.33	15.85	15.37	13.98	13.48	12.80	12.07	11.21
	5200MHz	16.71	/	/	/	/	/	/	/	/
	5240MHz	16.82	/	/	/	/	/	/	/	/
	5260MHz	16.95	/	/	/	/	/	/	/	/
	5280MHz	17.15	/	/	/	/	/	/	/	/
	5320MHz	16.53	/	/	/	/	/	/	/	/
	5500MHz	17.02	/	/	/	/	/	/	/	/
	5580MHz	17.01	/	/	/	/	/	/	/	/
	5700MHz	15.72	/	/	/	/	/	/	/	/
	5720MHz	17.42	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz	14.85	/	/	/	/	/	/	/
	5230MHz	16.78	16.00	15.17	14.52	14.03	13.50	13.02	13.01
	5270MHz	17.09	/	/	/	/	/	/	/
	5310MHz	16.21	/	/	/	/	/	/	/
	5510MHz	12.75	/	/	/	/	/	/	/
	5550MHz	17.05	/	/	/	/	/	/	/
	5670MHz	17.09	/	/	/	/	/	/	/
	5710MHz	17.44	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

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802.11ac-VHT40 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT40)	5190MHz	14.96	/	/	/	/	/	/	/	/	/
	5230MHz	17.03	16.31	15.65	14.52	13.64	13.12	12.74	12.01	11.59	11.00
	5270MHz	17.21	/	/	/	/	/	/	/	/	/
	5310MHz	15.42	/	/	/	/	/	/	/	/	/
	5510MHz	13.72	/	/	/	/	/	/	/	/	/
	5550MHz	17.36	/	/	/	/	/	/	/	/	/
	5670MHz	16.35	/	/	/	/	/	/	/	/	/
	5710MHz	17.35	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT80 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (VHT80)	5210MHz	15.14	/	/	/	/	/	/	/	/	/
	5290MHz	15.06	/	/	/	/	/	/	/	/	/
	5530MHz	12.02	/	/	/	/	/	/	/	/	/
	5610MHz	16.58	15.83	14.78	14.18	13.22	12.64	12.04	11.08	10.60	10.14
	5690MHz	16.91	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

The duty cycle of all mode are 100%

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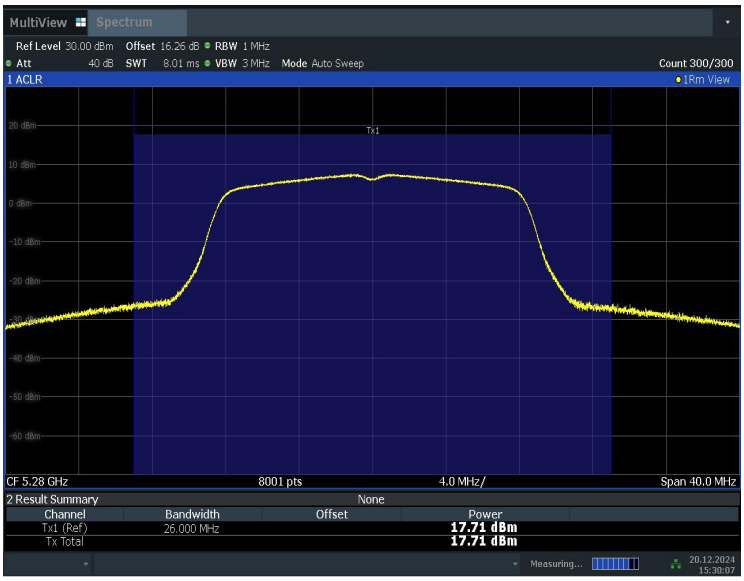

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Maximum output Power：11a CH56

Conclusion: PASS

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A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

The output power measurement method Section F is made according to KDB 789033

EUT ID: UT14a

Measurement Results:

TestMode	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	6.62	≤11.00	PASS
	5200	6.83	≤11.00	PASS
	5240	7.10	≤11.00	PASS
	5260	6.98	≤11.00	PASS
	5280	7.61	≤11.00	PASS
	5320	7.02	≤11.00	PASS
	5500	5.14	≤11.00	PASS
	5580	6.98	≤11.00	PASS
	5700	3.53	≤11.00	PASS
	5720	7.27	≤11.00	PASS
11N40SISO	5190	1.63	≤11.00	PASS
	5230	3.70	≤11.00	PASS
	5270	3.63	≤11.00	PASS
	5310	2.84	≤11.00	PASS
	5510	-0.16	≤11.00	PASS
	5550	4.06	≤11.00	PASS
	5670	3.85	≤11.00	PASS
	5710	4.59	≤11.00	PASS
11AC20SISO	5180	6.36	≤11.00	PASS
	5200	6.29	≤11.00	PASS
	5240	6.58	≤11.00	PASS
	5260	6.40	≤11.00	PASS
	5280	6.82	≤11.00	PASS
	5320	6.03	≤11.00	PASS
	5500	6.58	≤11.00	PASS
	5580	6.57	≤11.00	PASS
	5700	5.33	≤11.00	PASS
	5720	6.86	≤11.00	PASS
11AC80SISO	5210	-1.44	≤11.00	PASS
	5290	-1.07	≤11.00	PASS

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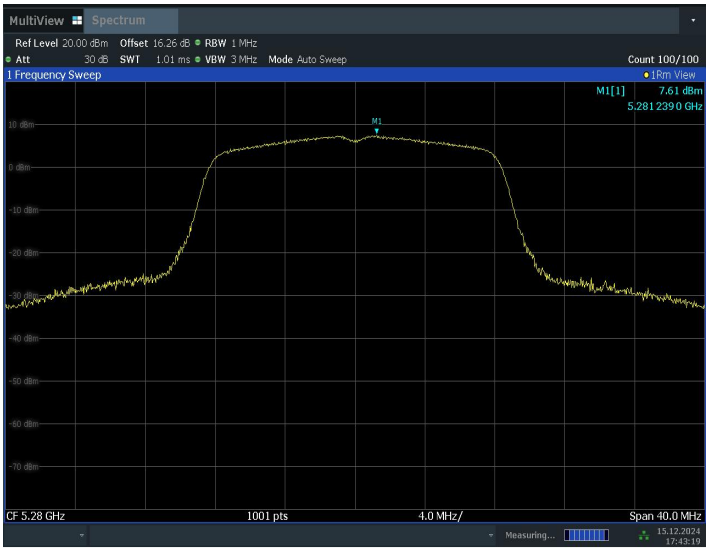
	5530	-4.31	≤11.00	PASS
	5610	0.07	≤11.00	PASS
	5690	0.56	≤11.00	PASS



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Peak Power Spectral Density:11a CH56

Conclusion: PASS

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A.4. 26dB Emission Bandwidth (conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz

EUT ID: UT14a

Measurement Result:

TestMode	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	5180	22.24	5168.64	5190.88	---	---
	5200	23.20	5188.08	5211.28	---	---
	5240	23.16	5229.84	5253.00	---	---
	5260	28.48	5245.12	5273.60	---	---
	5280	26.00	5267.36	5293.36	---	---
	5320	25.28	5307.68	5332.96	---	---
	5500	20.56	5489.60	5510.16	---	---
	5580	27.28	5565.88	5593.16	---	---
	5700	20.16	5690.04	5710.20	---	---
	5720	26.68	5706.68	5733.36	---	---
11N40SISO	5190	40.72	5169.60	5210.32	---	---
	5230	49.04	5201.92	5250.96	---	---
	5270	58.80	5240.00	5298.80	---	---
	5310	51.84	5281.52	5333.36	---	---
	5510	41.04	5489.52	5530.56	---	---
	5550	59.36	5522.08	5581.44	---	---
	5670	59.44	5641.68	5701.12	---	---
	5710	50.08	5684.24	5734.32	---	---
11AC20SISO	5180	25.64	5167.32	5192.96	---	---
	5200	23.60	5188.68	5212.28	---	---
	5240	22.68	5229.00	5251.68	---	---
	5260	29.08	5245.60	5274.68	---	---
	5280	24.16	5268.60	5292.76	---	---
	5320	25.44	5306.16	5331.60	---	---
	5500	26.76	5487.08	5513.84	---	---
	5580	29.88	5564.56	5594.44	---	---
	5700	23.48	5689.76	5713.24	---	---
	5720	28.00	5706.72	5734.72	---	---
11AC80SISO	5210	98.88	5155.12	5254.00	---	---
	5290	84.16	5246.32	5330.48	---	---

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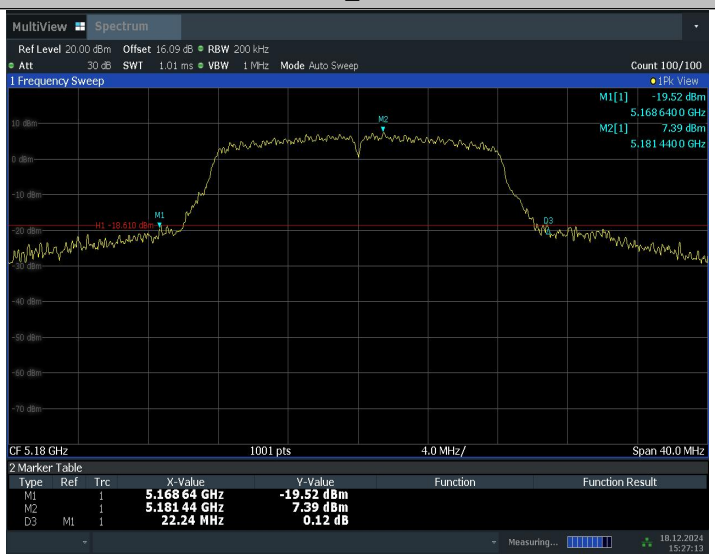
	5530	81.44	5489.20	5570.64	---	---
	5610	136.16	5548.24	5684.40	---	---
	5690	131.04	5628.56	5759.60	---	---

Test graphs as below:

11A_5180



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11A_5200

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11A_5240

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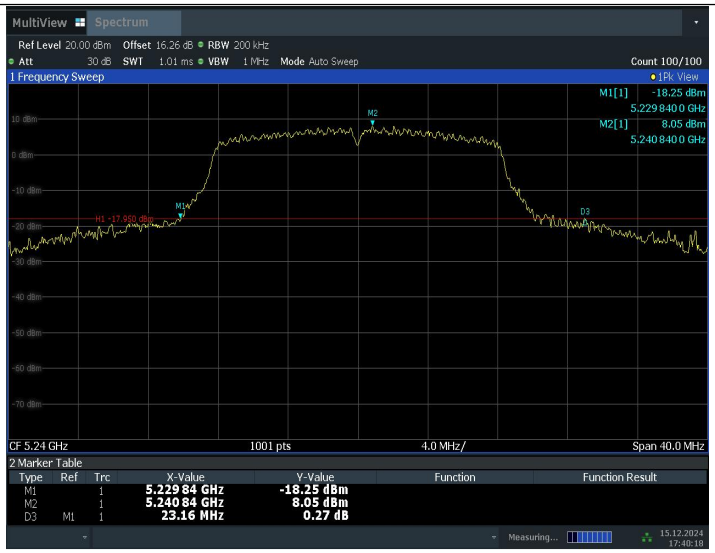

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11A_5260

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11A_5280

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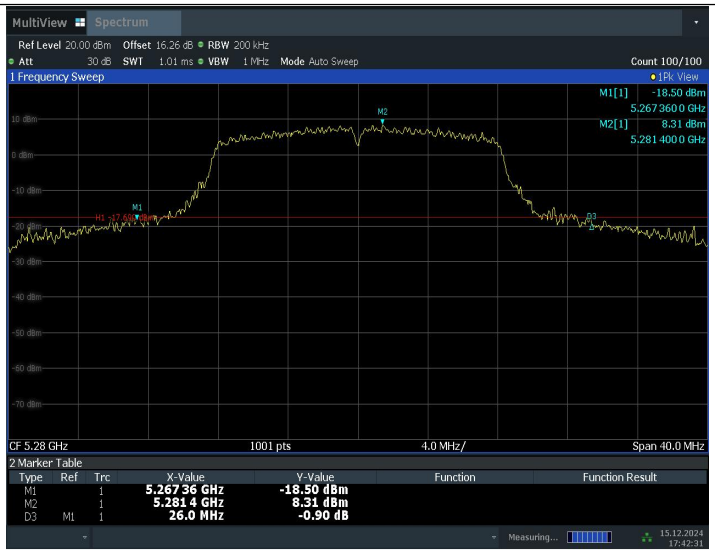

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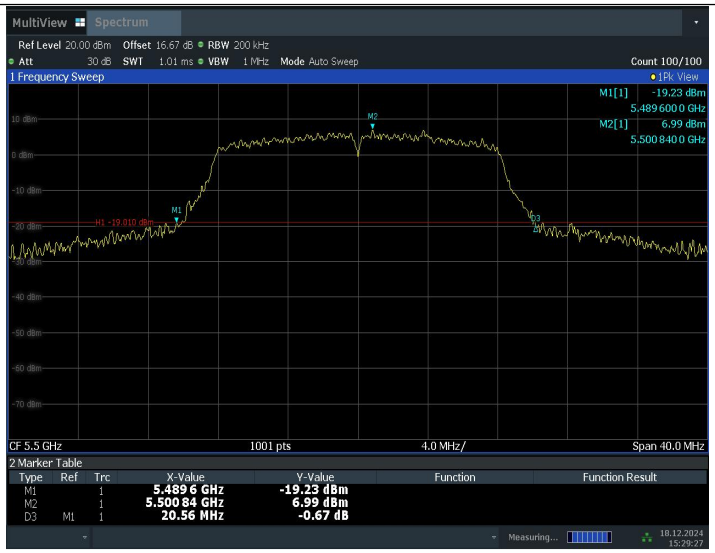

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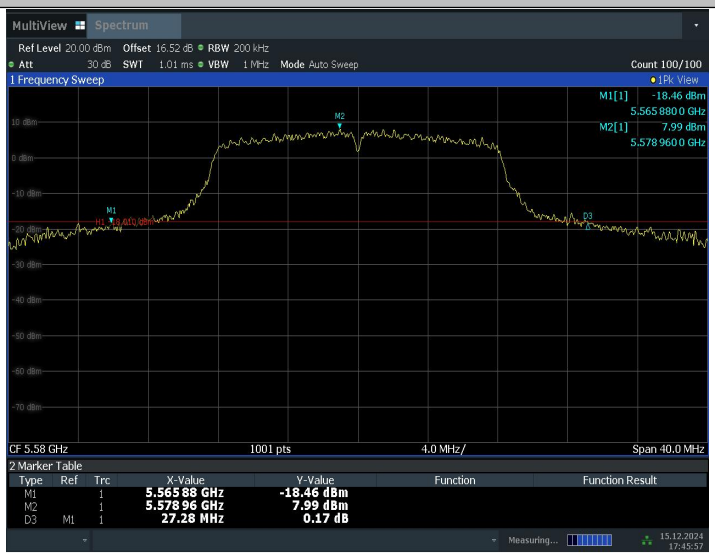

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11A_5700

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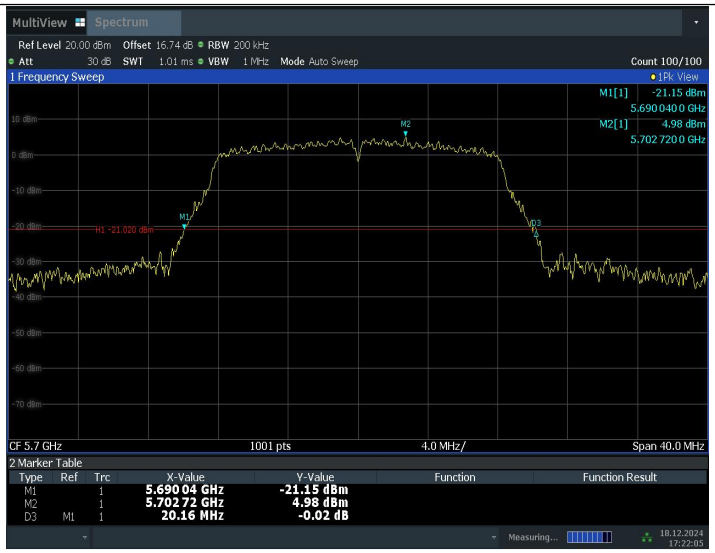

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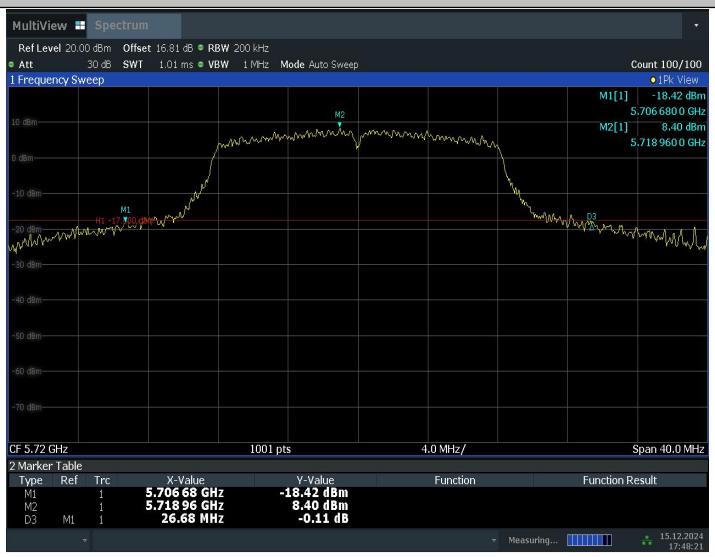

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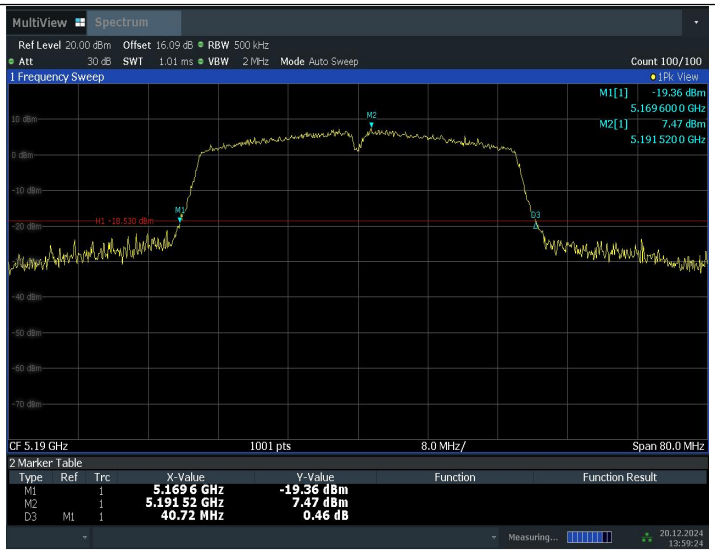

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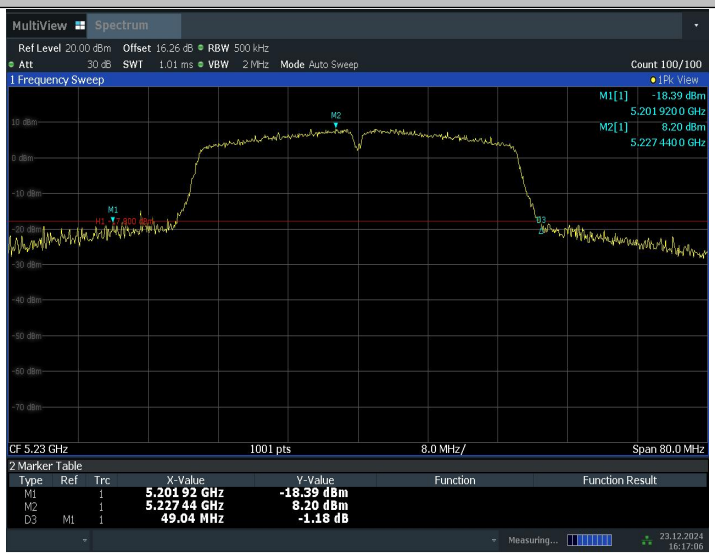

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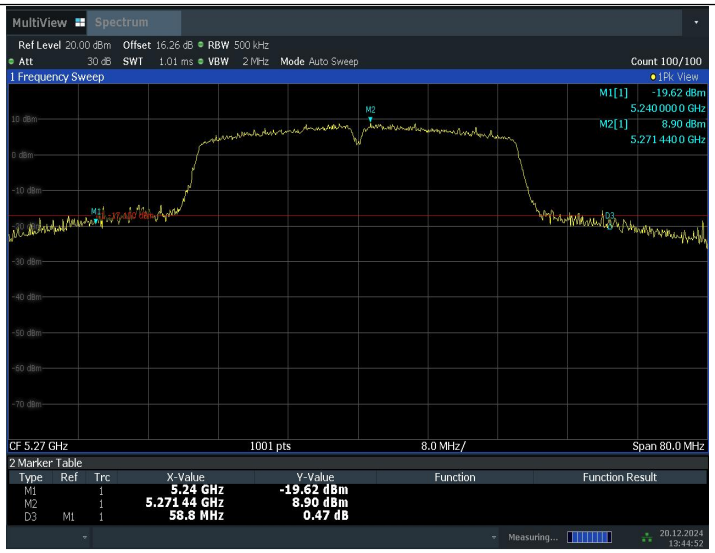

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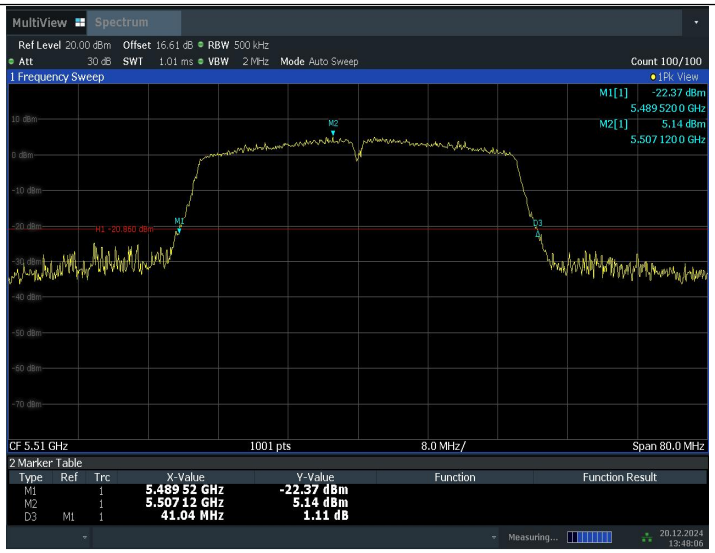

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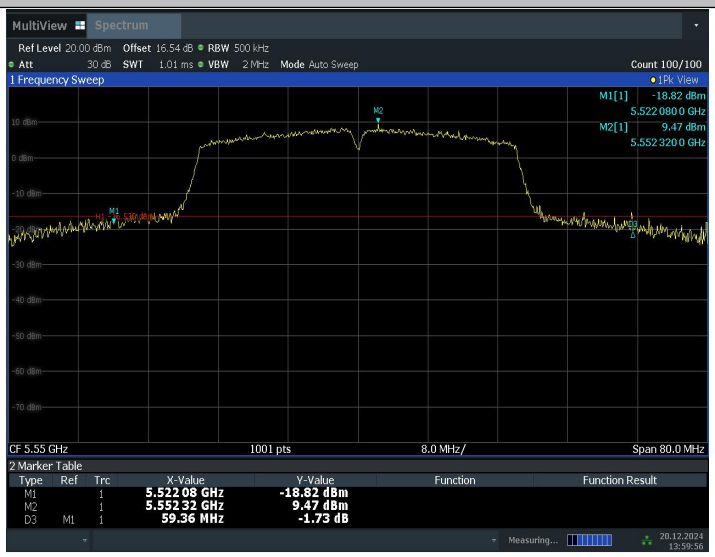

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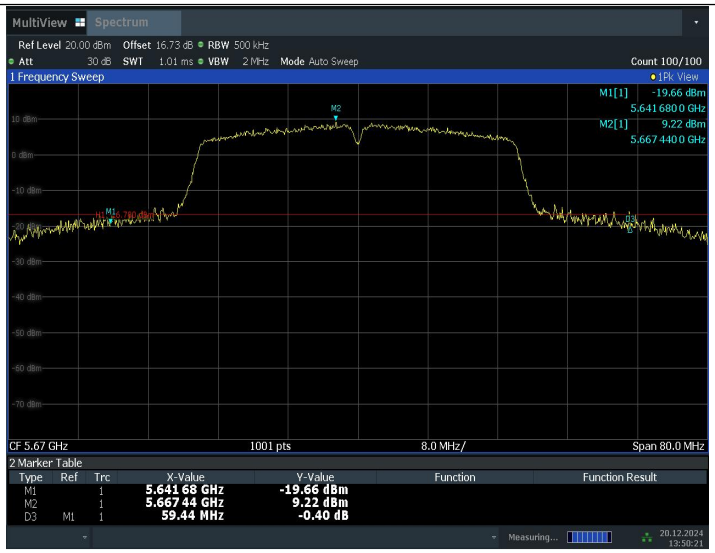

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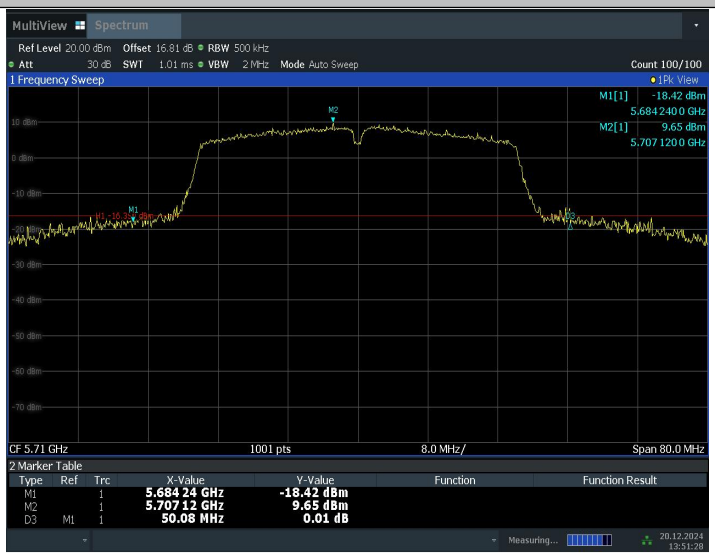

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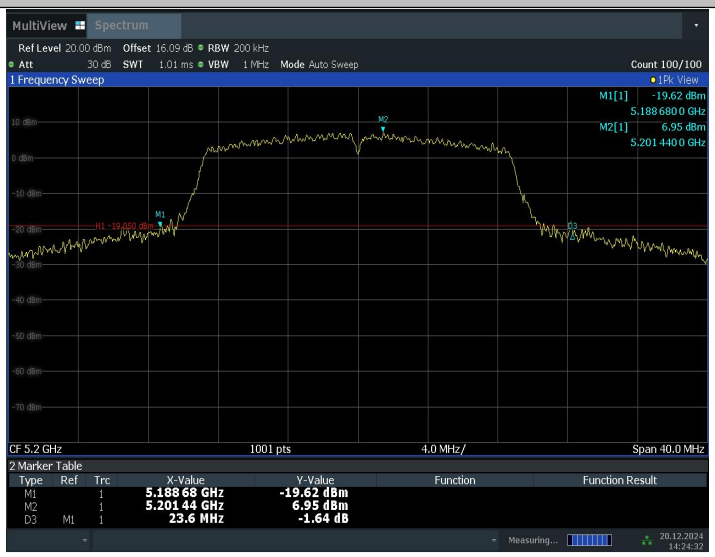

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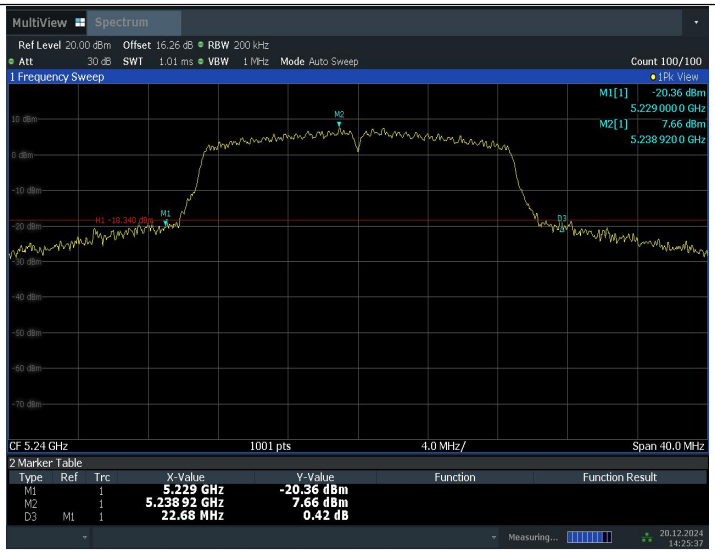

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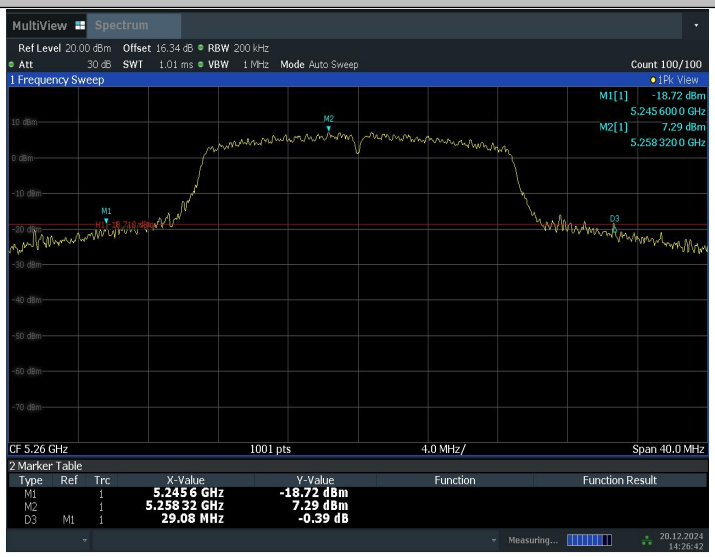

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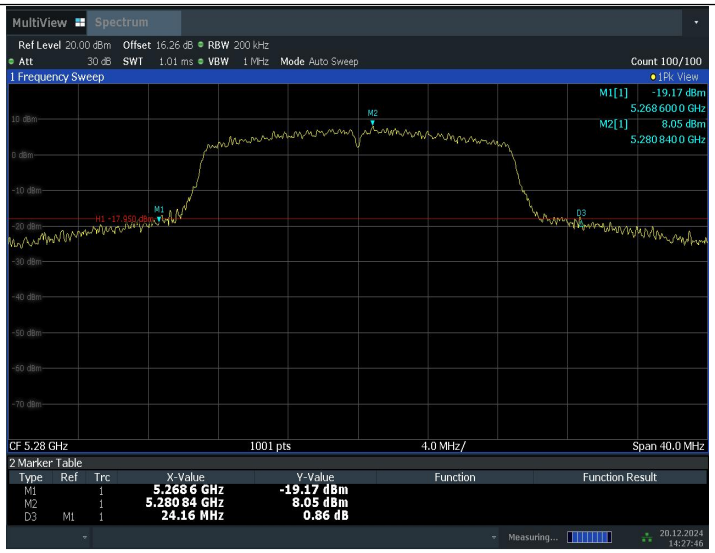

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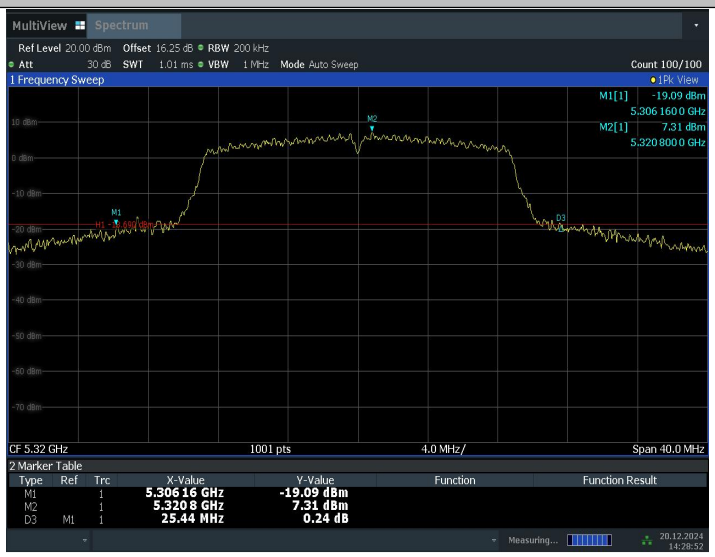

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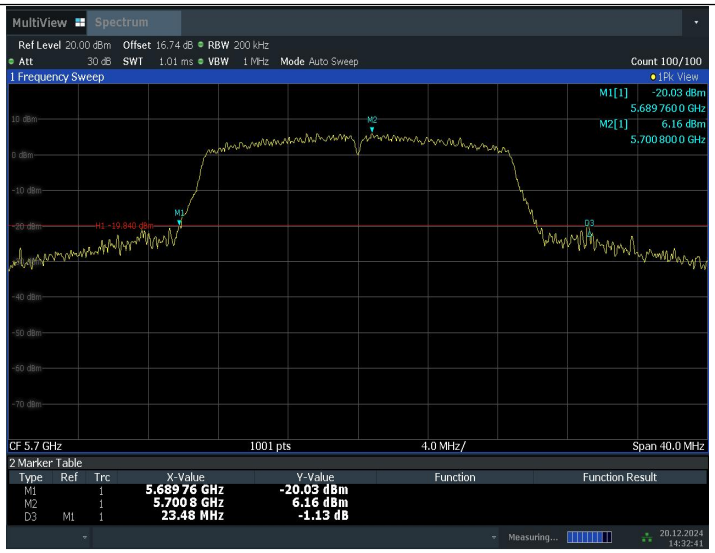

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