FCC PART 15E
TEST REPORT
No.24T04Z200128-006

for

Samsung Electronics Co., Ltd.

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

SM-A065F/DS

FCC ID: ZCASMA065F

with

Hardware Version: REV1.0

Software Version: A065F.001

Issued Date: 2024-06-24

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:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z200128-006	Rev.0	1st edition	2024-6-24

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

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NOTE: THE LATEST REVISION OF THE TEST REPORT SUPERSEDES ALL PREVIOUS VERSION.CONTENTS 2

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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: (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: 2024/6/6

Testing End Date: 2024/6/14

1.5. Signature

Dong Jiaxuan

(Prepared this test report)

Zheng Wei

(Reviewed this test report)

Pang Shuai

(Approved this test report)

2. Client Information

2.1 Applicant Information

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

2.2 Manufacturer Information

Company Name:	Samsung Electronics Co., Ltd.
Address /Post:	Samsung R5, Maetan dong 129, Samsung ro Youngtong gu, Suwon city 443 742, Korea
Contact:	Sunghoon Cho
Email:	ggobi.cho@samsung.com
Telephone:	+82-10-2722-4159

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

3.1. About EUT

Description	Multi-band GSM/WCDMA/LTE Mobile Phone with Bluetooth, WLAN
Model name	SM-A065F/DS
FCC ID	ZCASMA065F
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Nominal Voltage	3.85V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT08a	2404200128UT08a	REV1.0	A065F.001	2024-05-20
UT11a	2404200128UT11a	REV1.0	A065F.001	2024-05-20

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

UT08a is used for Conduction test, UT11a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Name	Model	Manufacturer
AE1-1	Battery	HQ-7160SS	SCUD (FUJIAN) Electronics Co., Ltd.
AE1-2	Battery	HQ-7160SD	SCUD (FUJIAN) Electronics Co., Ltd.
AE1-3	Battery	HQ-7160NA	Ningde Amperex technology limited
AE2-1*	Adapter	EP-TA800	SOLUM CO.,LTD.
AE2-2*	Adapter	EP-T1510	DONGYANG E&P INC.
AE2-3*	Adapter	EP-TA200	RFTECH ELECTRONICS (HUIZHOU) CO., LTD
AE3-1	Date Cable1 C-C	EP-DN980BWE	RFTECH ELECTRONICS (HUIZHOU) CO., LTD
AE3-2	Date Cable2 C-C	EP-DN980BWE	Guangxi Broad Telecommunication Co.,Ltd.
AE3-3	Date Cable3 C-C	EP-DN980BWE	Cresyn electronics(Dongguan)Co;Ltd.
AE3-4	Date Cable4 C-C	EP-DN980BWE	ASAP TECHNOLOGY(JIANGXI) CO.,LTD.
AE4*	Date Cable5 C-A	EP-DR140AWE	Cresyn electronics(Dongguan)Co;Ltd.
AE5*	Headset	EHS61ASFWE	Dongguan YoungBo Electronics

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

*AE2-1, AE2-2, AE2-3, AE4 and A5 are not the AE for EUT, provided by the client for relevant tests.

3.4. General Description

The Equipment under Test (EUT) is a model of Multi-band GSM/WCDMA/LTE 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.

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.

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**
Occupied 26dB 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	3.85V
Humidity	44%

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	2024-07-04
2	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2025-04-06
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	ESW44	103015	R&S	1 year	2025-01-18
2	Test Receiver	FSV30	101047	R&S	1 year	2024-10-08
3	Test Receiver	ESU26	100376	R&S	1 year	2024-06-29
4	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2025-01-04
5	EMI Antenna	VULB9163	302	Schwarzbeck	1 year	2024-08-28
6	EMI Antenna	3117	00139065	ETS-Lindgren	1 year	2024-10-22
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

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	5.62
18GHz ≤ f ≤40GHz	3.52

8.7 AC Power-line Conducted Emission

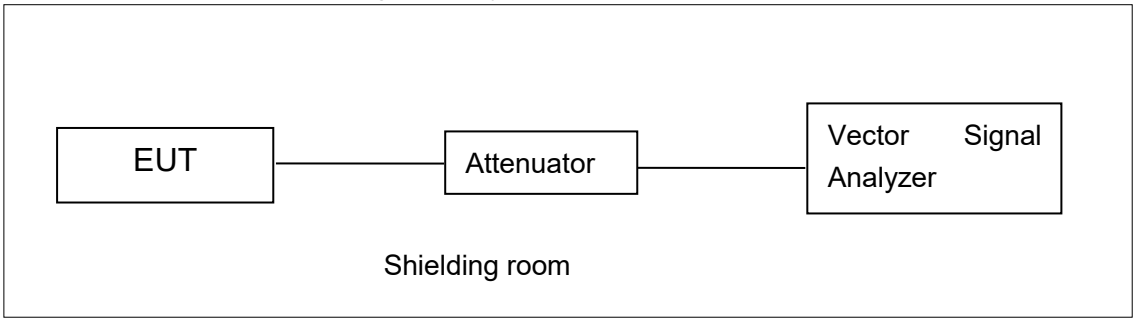
Measurement Uncertainty: 3.10dB, k=2

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 C63.10-2013 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.

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 measurmentmethod SA-2 is made according to KDB 789033

A.2.1 Antenna Gain

Antenna gain is -0.8dBi and the value is supplied by the applicant or manufacturer.

A.2.2 Maximum output Power-Conducted

EUT ID: UT08a

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	15.56	15.60	16.15	15.48	15.40	14.45	14.95	14.77
	5200MHz	/	/	16.10	/	/	/	/	/
	5240MHz	/	/	16.08	/	/	/	/	/
	5260MHz	/	/	15.85	/	/	/	/	/
	5280MHz	/	/	15.65	/	/	/	/	/
	5320MHz	/	/	15.97	/	/	/	/	/
	5500MHz	/	/	15.15	/	/	/	/	/
	5580MHz	/	/	14.95	/	/	/	/	/
	5700MHz	/	/	15.14	/	/	/	/	/
	5720MHz	/	/	14.20	/	/	/	/	/

The data rate 12Mbps 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	15.64	15.60	16.04	15.69	13.67	13.70	13.89	13.93
	5200MHz	/	/	16.07	/	/	/	/	/
	5240MHz	/	/	15.64	/	/	/	/	/
	5260MHz	/	/	15.52	/	/	/	/	/
	5280MHz	/	/	15.33	/	/	/	/	/
	5320MHz	/	/	15.54	/	/	/	/	/

	5500MHz	/	/	14.04	/	/	/	/	/
	5580MHz	/	/	14.22	/	/	/	/	/
	5700MHz	/	/	14.42	/	/	/	/	/
	5720MHz	/	/	13.47	/	/	/	/	/

The data rate MCS2 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	12.54	12.52	12.68	12.42	12.42	11.52	11.40	11.51	11.50
	5200MHz	/	/	12.66	/	/	/	/	/	/
	5240MHz	/	/	12.56	/	/	/	/	/	/
	5260MHz	/	/	12.48	/	/	/	/	/	/
	5280MHz	/	/	12.34	/	/	/	/	/	/
	5320MHz	/	/	12.61	/	/	/	/	/	/
	5500MHz	/	/	12.82	/	/	/	/	/	/
	5580MHz	/	/	12.57	/	/	/	/	/	/
	5700MHz	/	/	12.79	/	/	/	/	/	/
	5720MHz	/	/	11.85	/	/	/	/	/	/

The data rate MSC2 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	14.88	14.42	14.40	14.42	12.53	12.58	12.64	12.59
	5230MHz	14.70	/	/	/	/	/	/	/
	5270MHz	14.37	/	/	/	/	/	/	/
	5310MHz	14.55	/	/	/	/	/	/	/
	5510MHz	14.01	/	/	/	/	/	/	/
	5550MHz	14.21	/	/	/	/	/	/	/
	5670MHz	14.15	/	/	/	/	/	/	/
	5710MHz	14.00	/	/	/	/	/	/	/

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

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	12.42	12.45	12.57	12.45	12.43	11.30	11.25	11.24	11.20	10.83
	5230MHz	/	/	12.55	/	/	/	/	/	/	/
	5270MHz	/	/	12.21	/	/	/	/	/	/	/
	5310MHz	/	/	12.34	/	/	/	/	/	/	/
	5510MHz	/	/	12.51	/	/	/	/	/	/	/
	5550MHz	/	/	12.57	/	/	/	/	/	/	/
	5670MHz	/	/	12.40	/	/	/	/	/	/	/
	5710MHz	/	/	12.28	/	/	/	/	/	/	/

The data rate MCS2 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	12.58	12.46	12.49	12.98	11.48	10.61	11.42	11.28	11.25	11.04
	5290MHz	/	/	/	11.54	/	/	/	/	/	/
	5530MHz	/	/	/	11.97	/	/	/	/	/	/
	5610MHz	/	/	/	11.71	/	/	/	/	/	/
	5690MHz	/	/	/	11.25	/	/	/	/	/	/

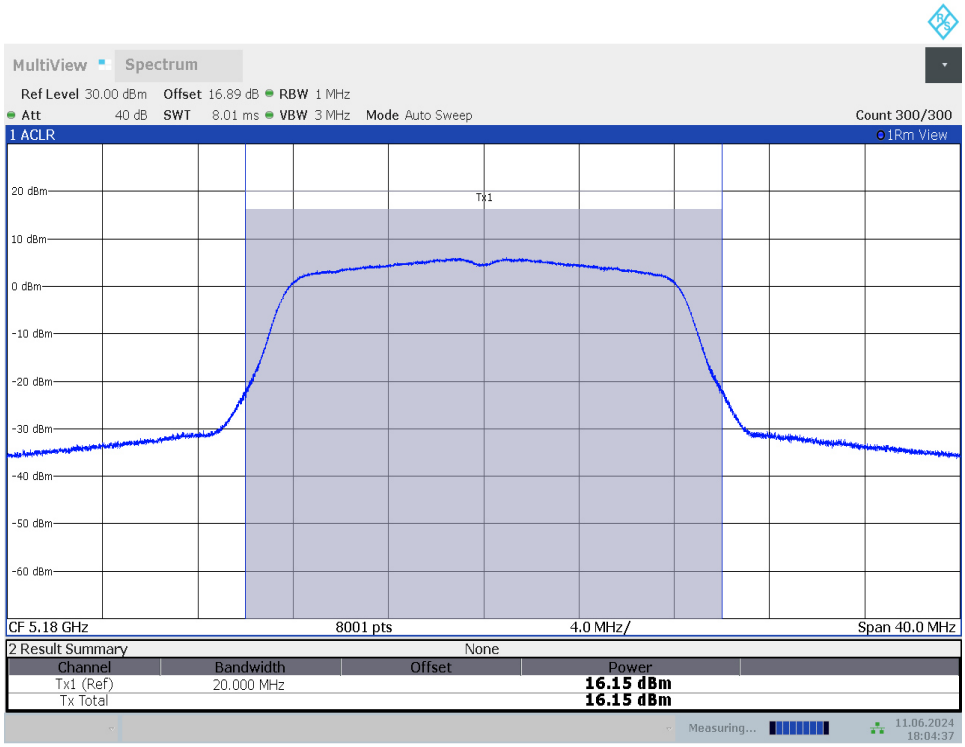
The data rate MCS3 is selected as worst condition, and the following cases are performed with this condition.

duty cycle

Mode	11a
Duty Cycle	94.5%

Mode	11N 20M	11N 40M
Duty Cycle	90%	92%

Mode	11ac-20M	11ac-40M	11ac-80M
Duty Cycle	90%	82%	86%



Maximum output Power

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

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

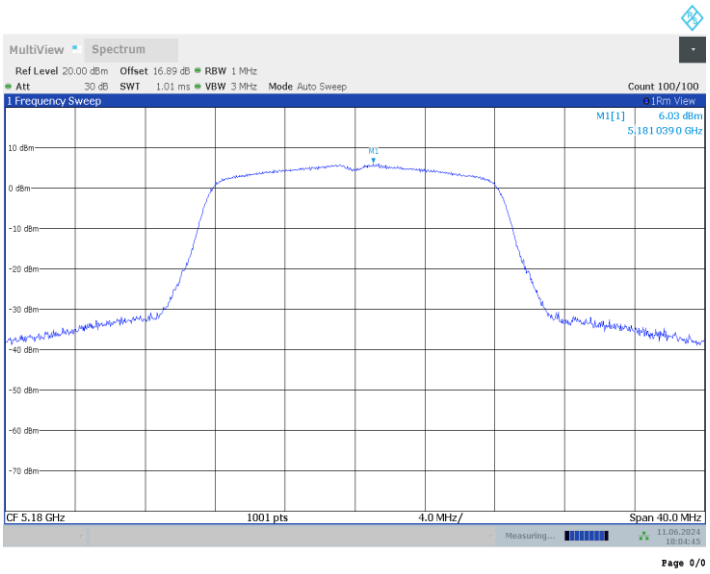
The output power measurement method Section F is made according to KDB 789033

EUT ID: UT08a

Measurement Results:

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	6.03	P
	5200 MHz	5.98	P
	5240 MHz	5.79	P
	5260 MHz	5.76	P
	5280 MHz	5.51	P
	5320 MHz	5.79	P
	5500 MHz	4.90	P
	5580 MHz	4.74	P
	5700 MHz	4.99	P
	5720 MHz	4.64	P
802.11n HT20	5180 MHz	5.78	P
	5200 MHz	5.63	P
	5240 MHz	5.38	P
	5260 MHz	5.41	P
	5280 MHz	5.03	P
	5320 MHz	5.36	P
	5500 MHz	3.63	P
	5580 MHz	3.93	P
	5700 MHz	4.08	P
	5720 MHz	3.81	P
802.11n HT40	5190 MHz	1.64	P
	5230 MHz	1.58	P
	5270 MHz	1.12	P
	5310 MHz	1.43	P
	5510 MHz	0.75	P
	5550 MHz	0.86	P
	5670 MHz	1.04	P
	5710 MHz	1.08	P
802.11ac	5210 MHz	-3.29	P

VHT80	5290 MHz	-4.82	P
	5530 MHz	-3.72	P
	5610 MHz	-4.56	P
	5690 MHz	-4.72	P



Peak Power Spectral Density

Conclusion: PASS

A.4. 26dB Emission Bandwidth

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: UT08a

Measurement Result:

Mode	Frequency	26dB Emission Bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.1	19.56	P
	5200 MHz	Fig.2	19.44	P
	5240 MHz	Fig.3	19.60	P
	5260 MHz	Fig.4	19.60	P
	5280 MHz	Fig.5	19.60	P
	5320 MHz	Fig.6	19.68	P
	5500 MHz	Fig.7	19.56	P
	5580 MHz	Fig.8	19.76	P
	5700 MHz	Fig.9	19.48	P
	5720 MHz	Fig.10	19.44	P
802.11n HT20	5180 MHz	Fig.11	20.20	P
	5200 MHz	Fig.12	20.16	P
	5240 MHz	Fig.13	20.08	P
	5260 MHz	Fig.14	19.96	P
	5280 MHz	Fig.15	20.08	P
	5320 MHz	Fig.16	20.00	P
	5500 MHz	Fig.17	19.92	P
	5580 MHz	Fig.18	20.04	P
	5700 MHz	Fig.19	19.88	P
	5720 MHz	Fig.20	19.92	P
802.11n HT40	5190 MHz	Fig.21	40.88	P
	5230 MHz	Fig.22	40.56	P
	5270 MHz	Fig.23	40.40	P
	5310 MHz	Fig.24	40.64	P
	5510 MHz	Fig.25	40.80	P
	5550 MHz	Fig.26	40.80	P
	5670 MHz	Fig.27	40.48	P
	5710 MHz	Fig.28	40.56	P
802.11ac	5210MHz	Fig.29	81.28	P

VHT80	5290MHz	Fig.30	81.60	P
	5530MHz	Fig.31	81.28	P
	5610 MHz	Fig.32	81.28	P
	5690MHz	Fig.33	81.12	P

Test graphs as below:

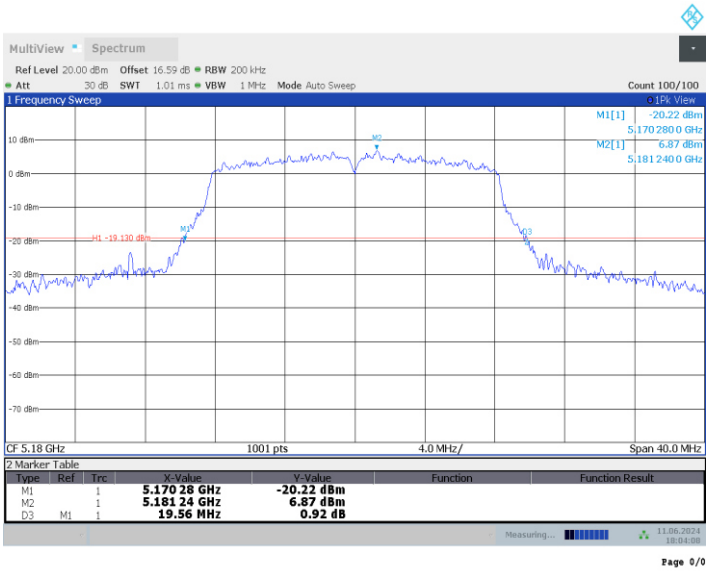


Fig.1 26dB Emission Bandwidth (802.11a, 5180MHz)

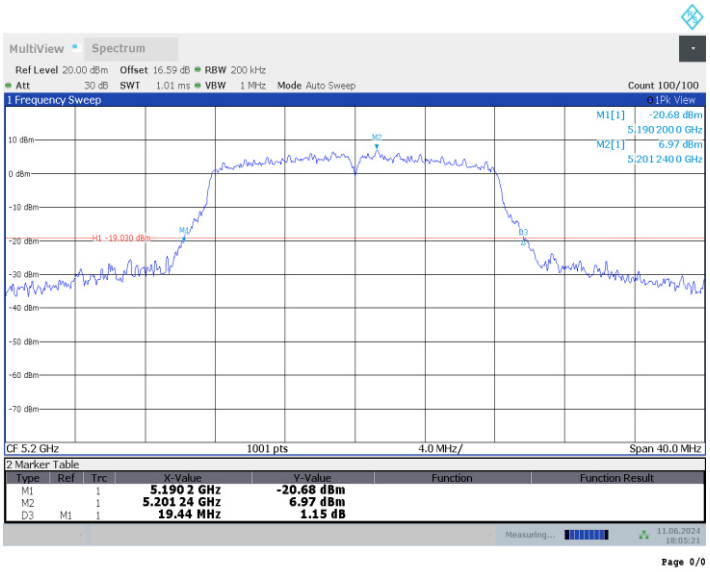


Fig.2 26dB Emission Bandwidth (802.11a, 5200MHz)

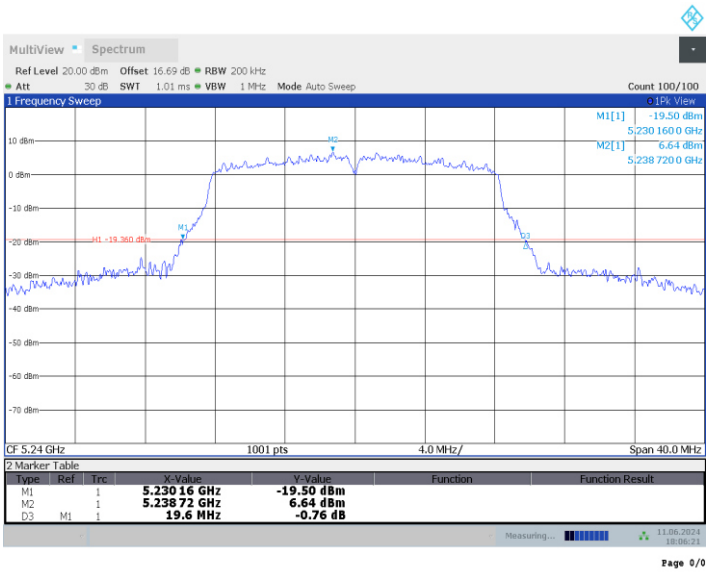


Fig.3 26dB Emission Bandwidth (802.11a, 5240MHz)

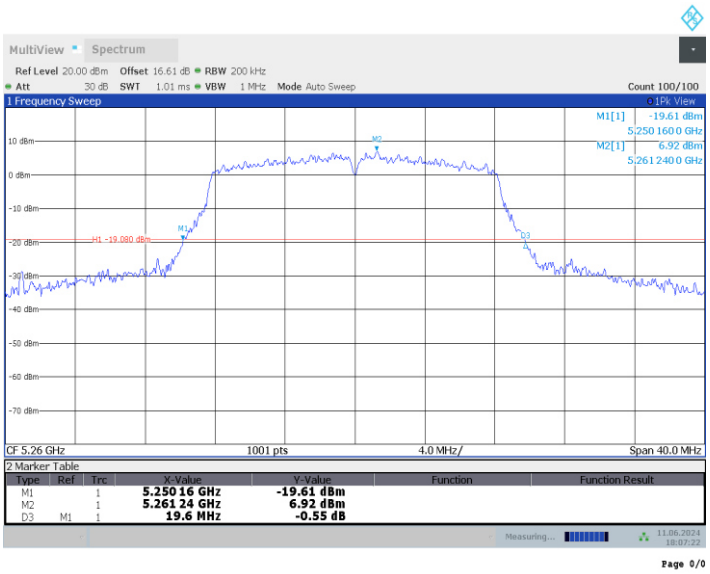


Fig.4 26dB Emission Bandwidth (802.11a, 5260MHz)

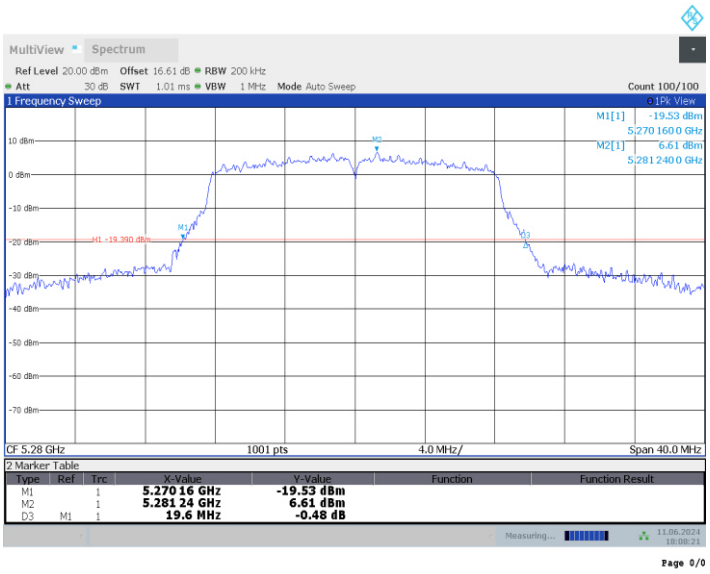


Fig.5 26dB Emission Bandwidth (802.11a, 5280MHz)

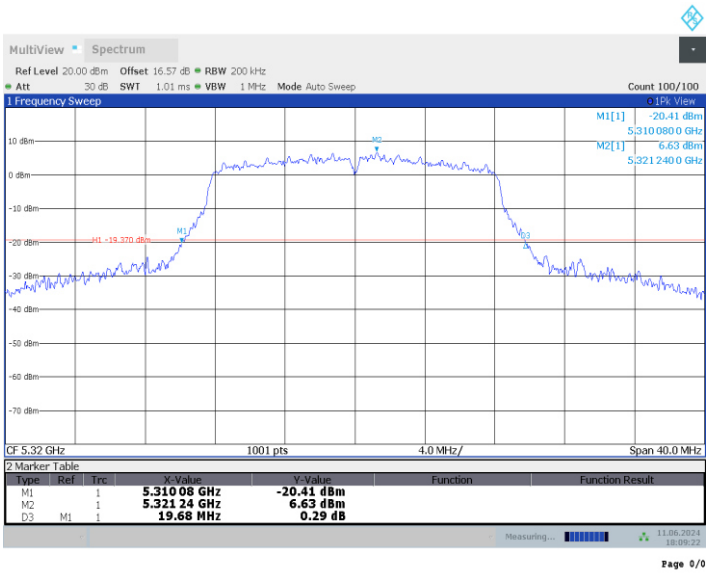


Fig.6 26dB Emission Bandwidth (802.11a, 5320MHz)

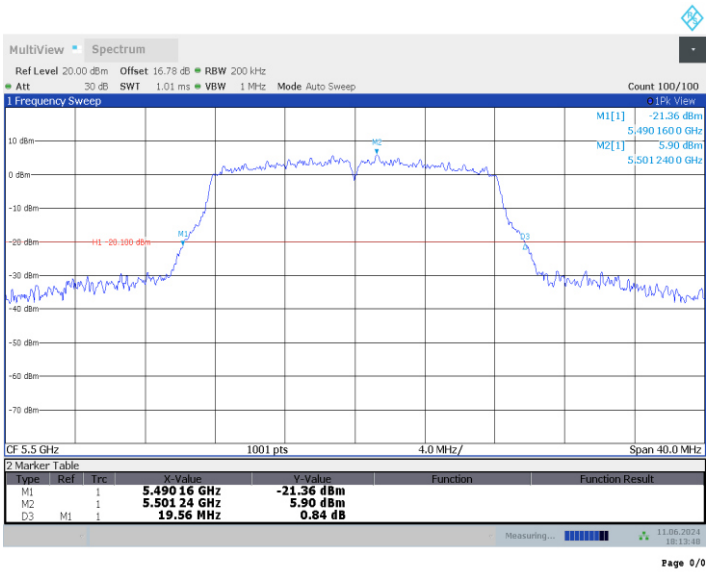


Fig.7 26dB Emission Bandwidth (802.11a, 5500MHz)

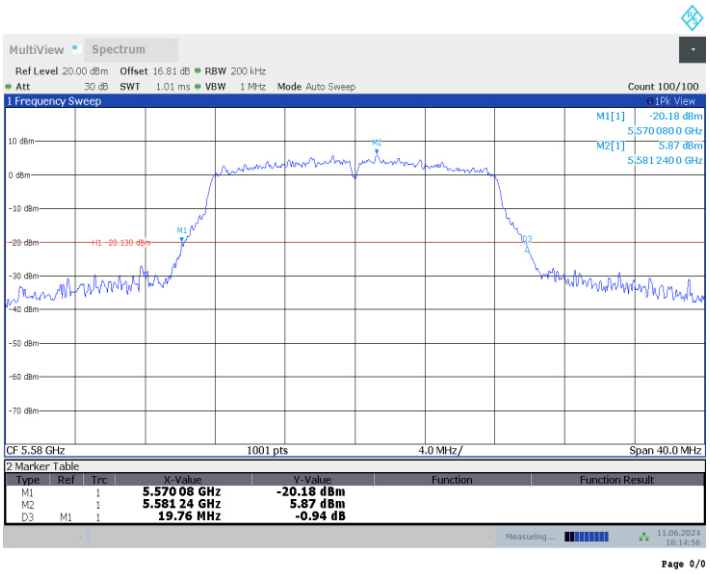


Fig.8 26dB Emission Bandwidth (802.11a, 5580MHz)

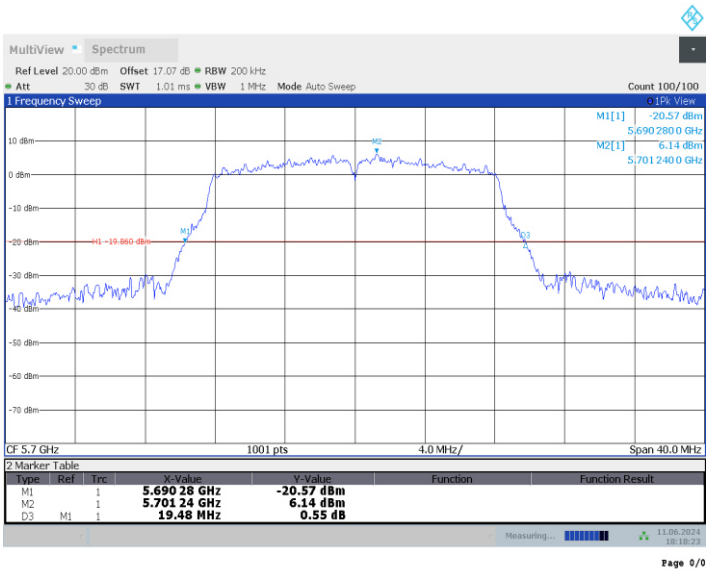


Fig.9 26dB Emission Bandwidth (802.11a, 5700MHz)

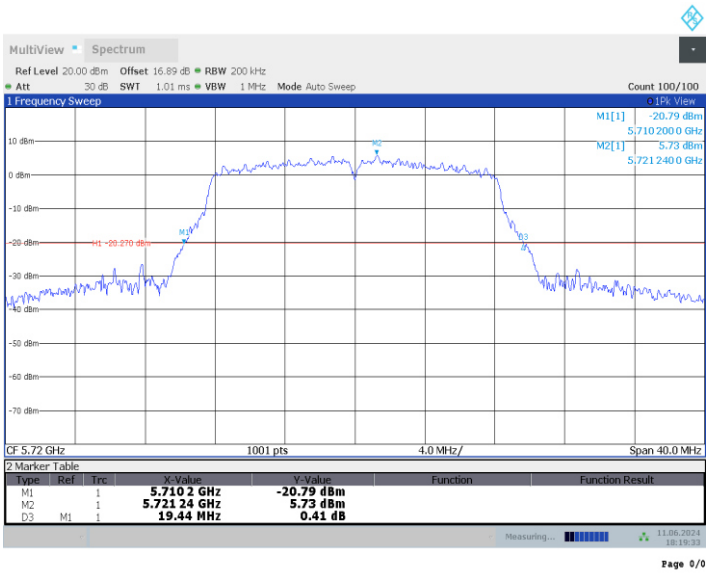


Fig.10 26dB Emission Bandwidth (802.11a, 5720MHz)

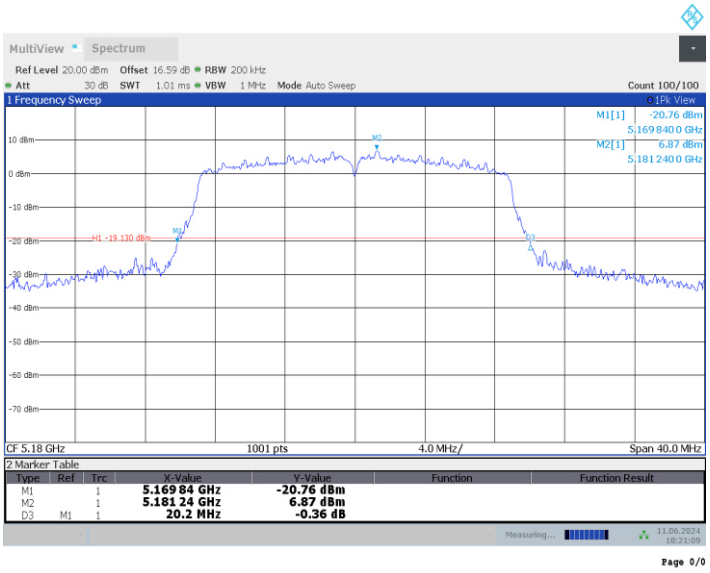


Fig.11 26dB Emission Bandwidth (802.11n-HT20, 5180MHz)

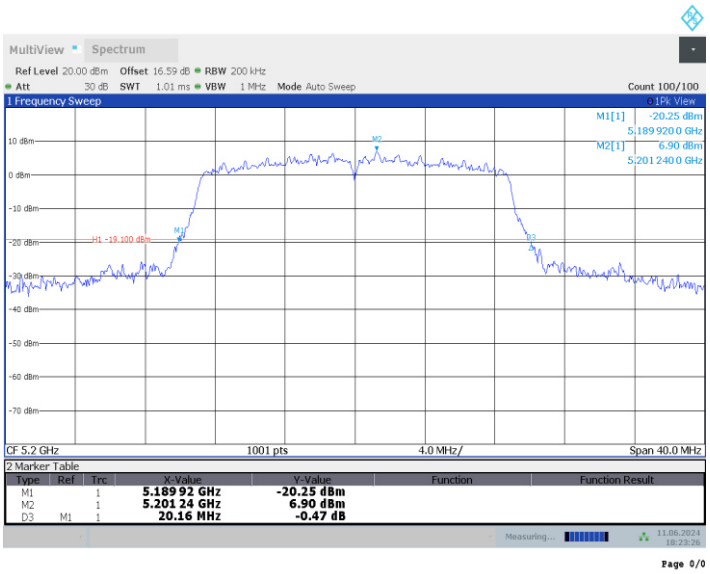


Fig.12 26dB Emission Bandwidth (802.11n-HT20, 5200MHz)

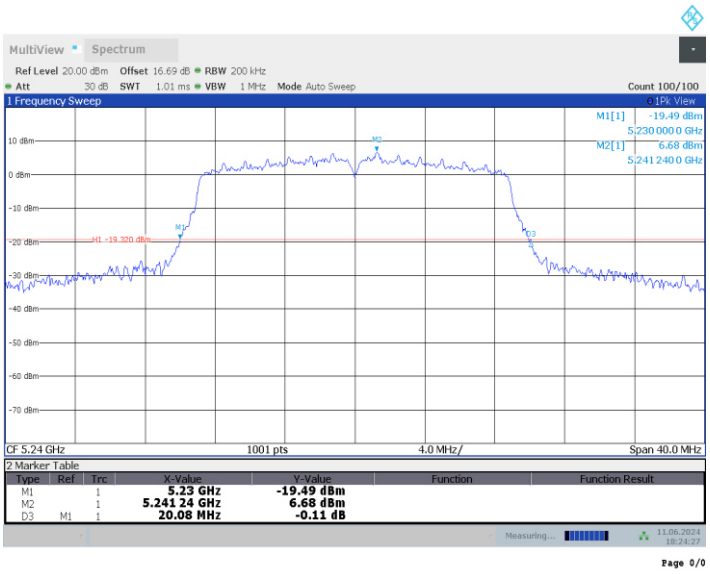


Fig.13 26dB Emission Bandwidth (802.11n-HT20, 5240MHz)

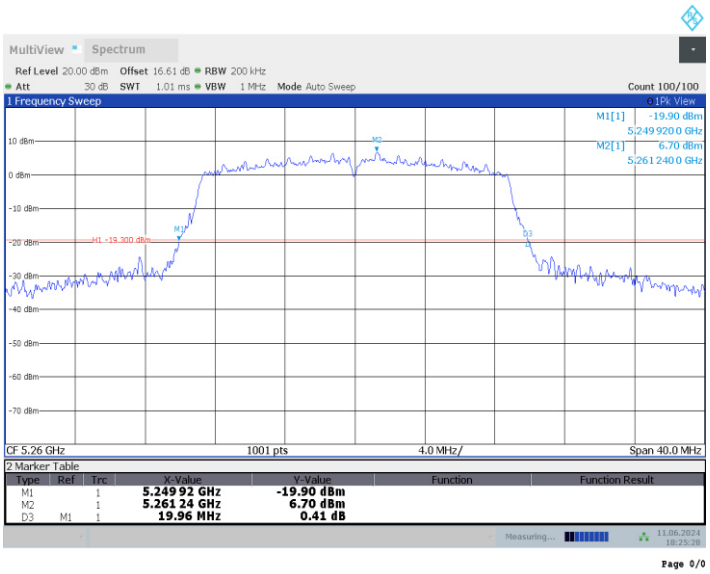


Fig.14 26dB Emission Bandwidth (802.11n-HT20, 5260MHz)

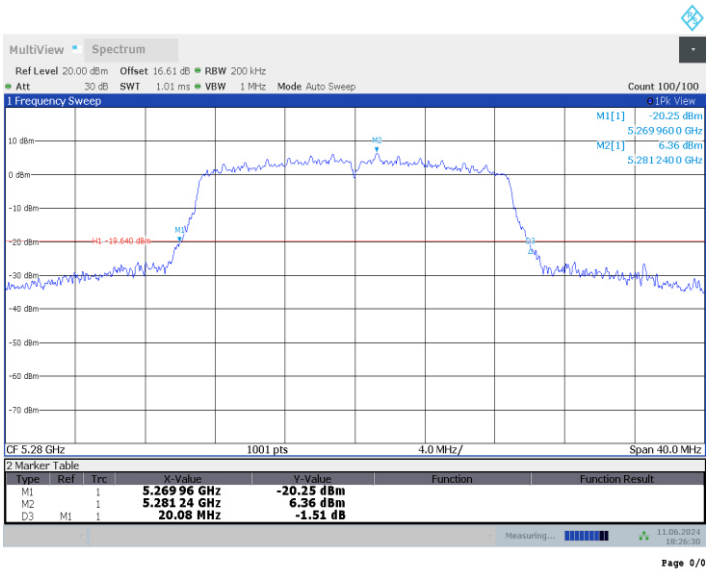


Fig.15 26dB Emission Bandwidth (802.11n-HT20, 5280MHz)

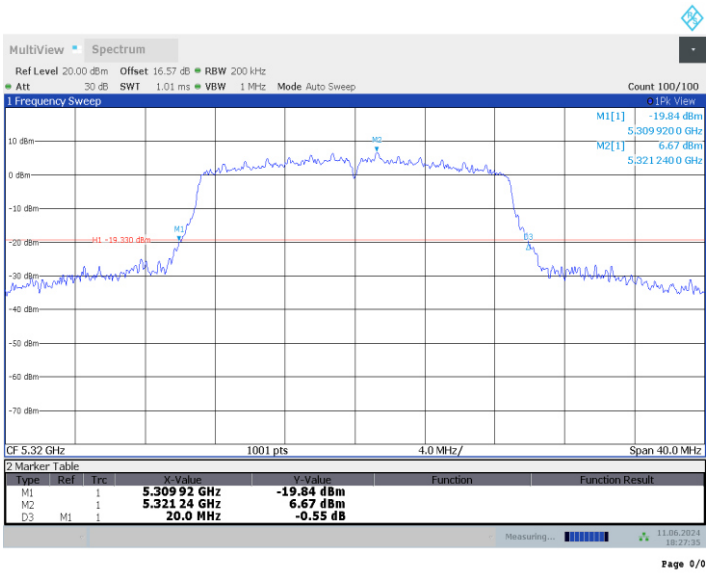


Fig.16 26dB Emission Bandwidth (802.11n-HT20, 5320MHz)

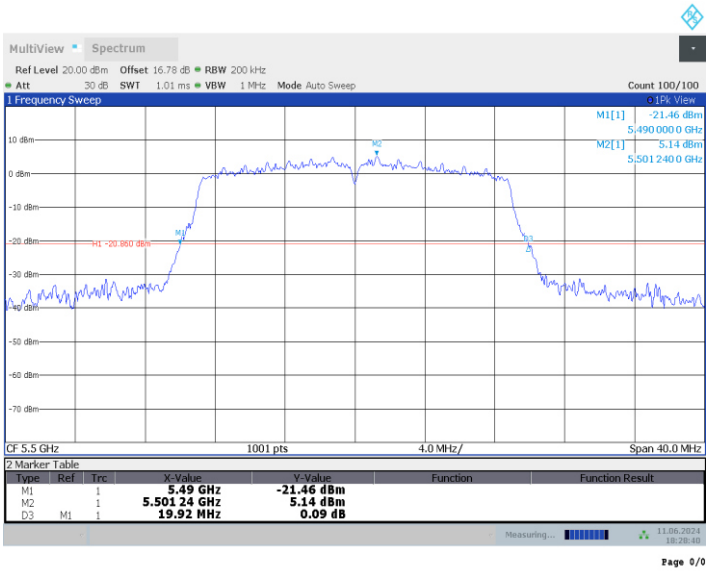


Fig.17 26dB Emission Bandwidth (802. 11n-HT20, 5500MHz)

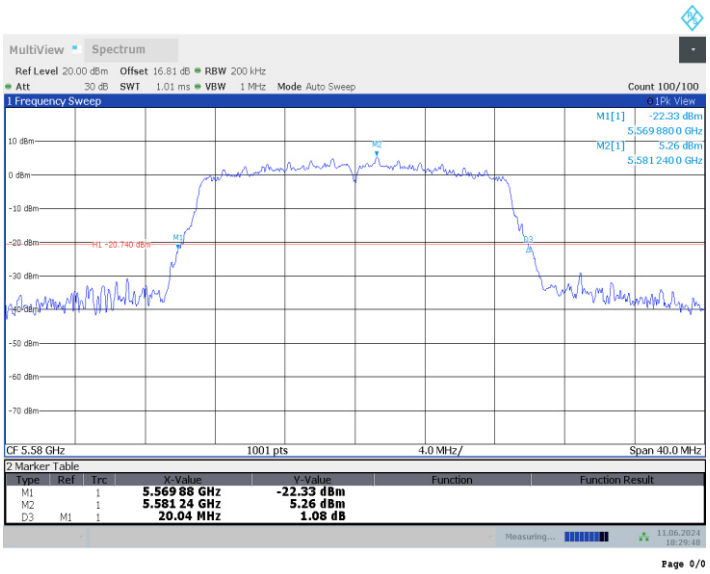


Fig.18 26dB Emission Bandwidth (802. 11n-HT20, 5580MHz)

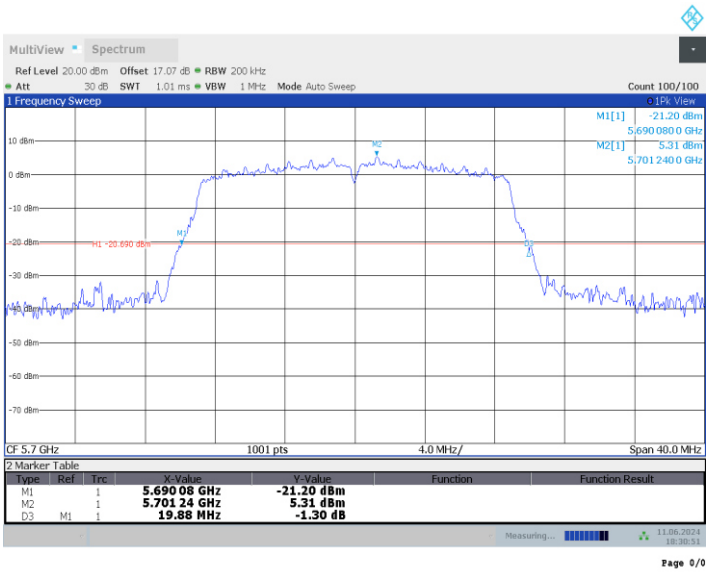


Fig.19 26dB Emission Bandwidth (802. 11n-HT20, 5700MHz)

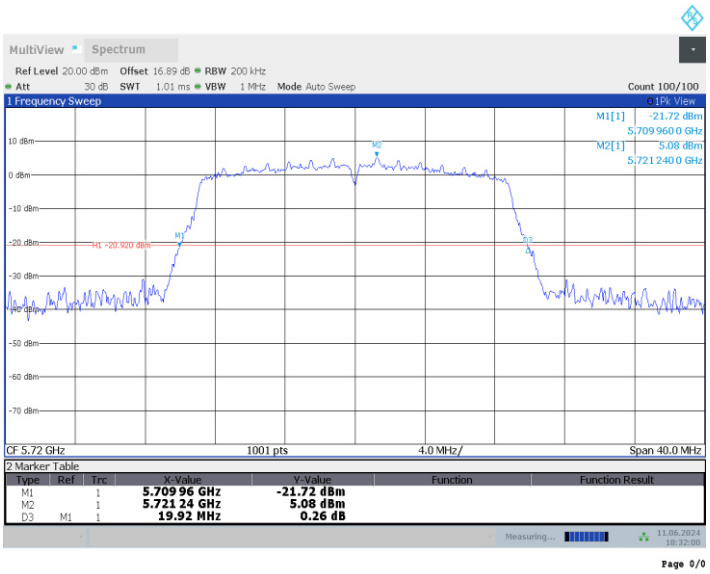


Fig.20 26dB Emission Bandwidth (802. 11n-HT20, 5720MHz)

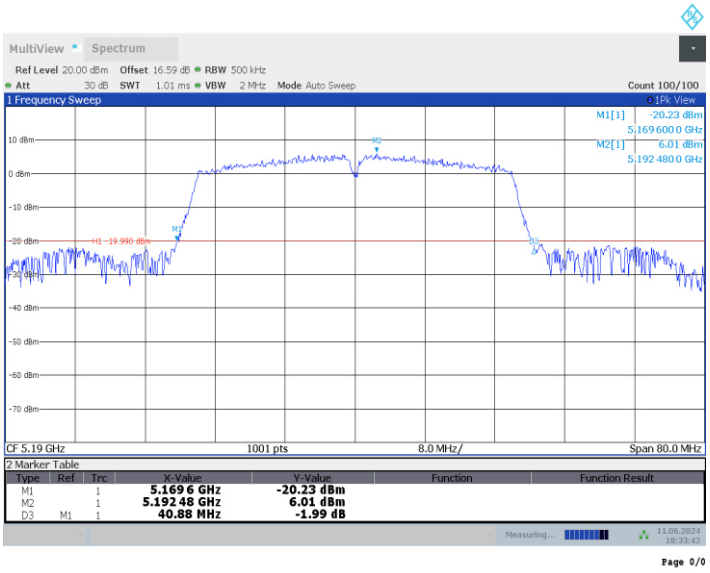


Fig.21 26dB Emission Bandwidth (802.11n-HT40, 5190MHz)

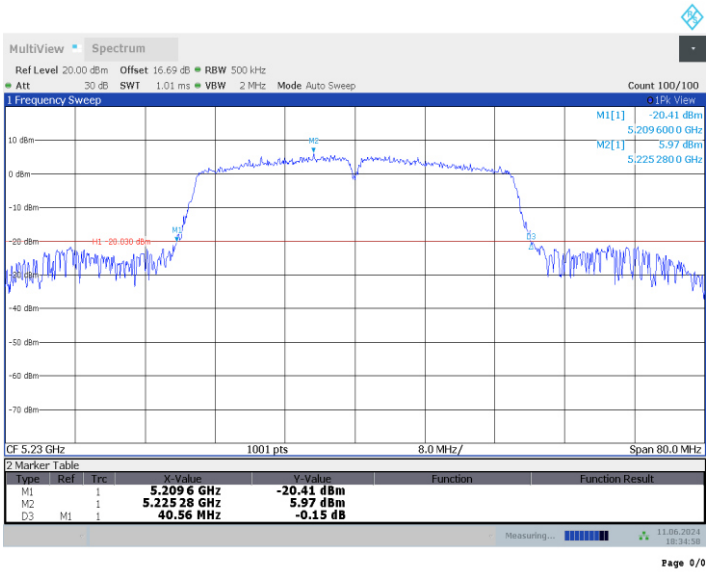


Fig.22 26dB Emission Bandwidth (802.11n-HT40, 5230MHz)

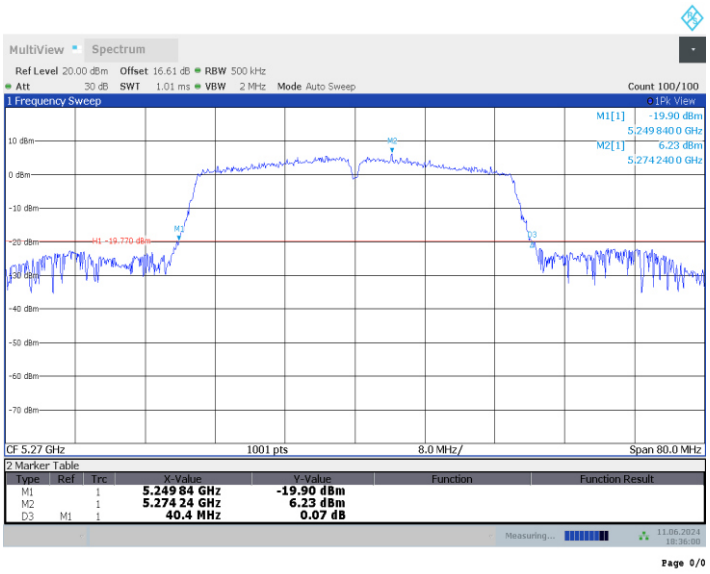


Fig.23 26dB Emission Bandwidth (802.11n-HT40, 5270MHz)

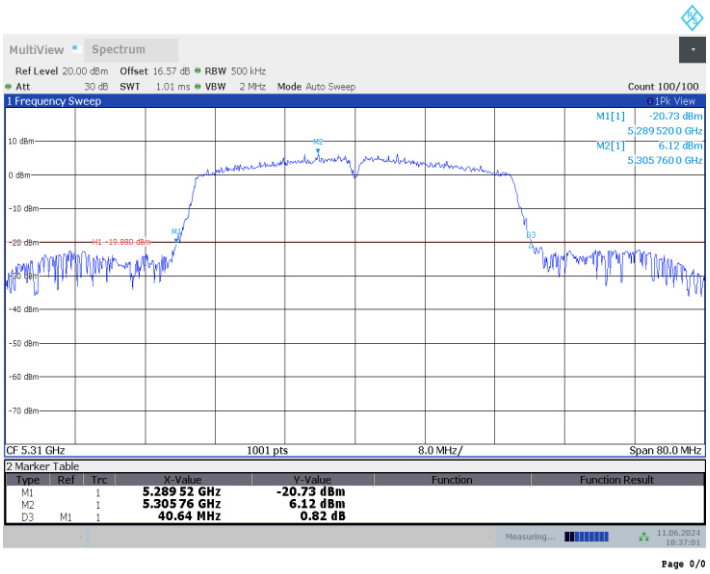


Fig.24 26dB Emission Bandwidth (802.11n-HT40, 5310MHz)

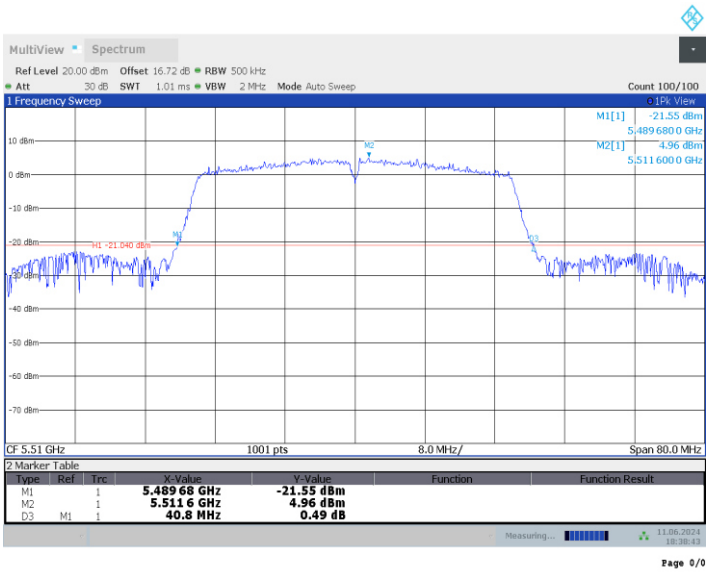


Fig.25 26dB Emission Bandwidth (802. 11n-HT40, 5510MHz)

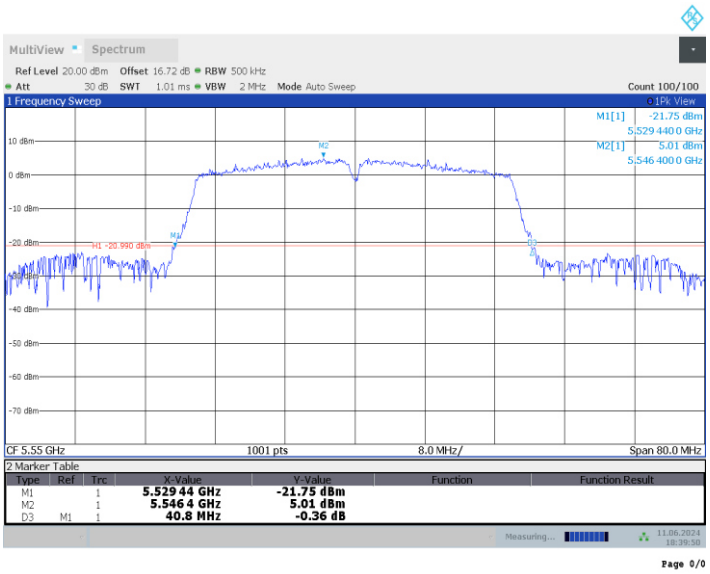


Fig.26 26dB Emission Bandwidth (802. 11n-HT40, 5550MHz)

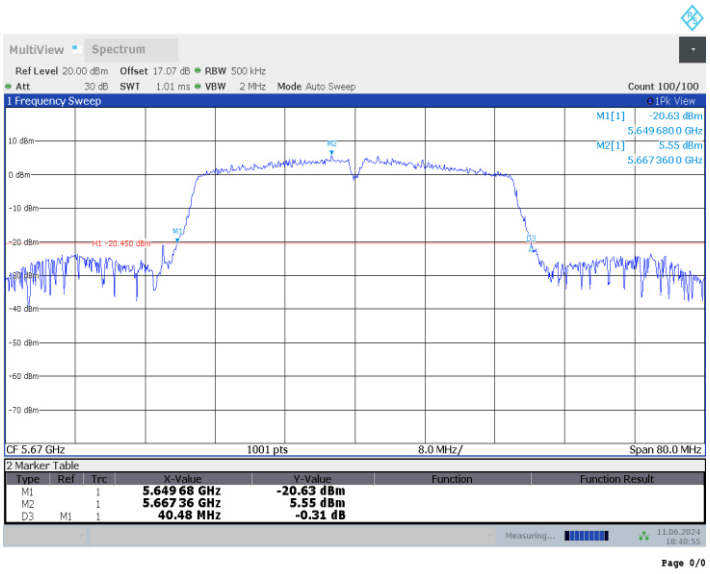


Fig.27 26dB Emission Bandwidth (802. 11n-HT40, 5670MHz)

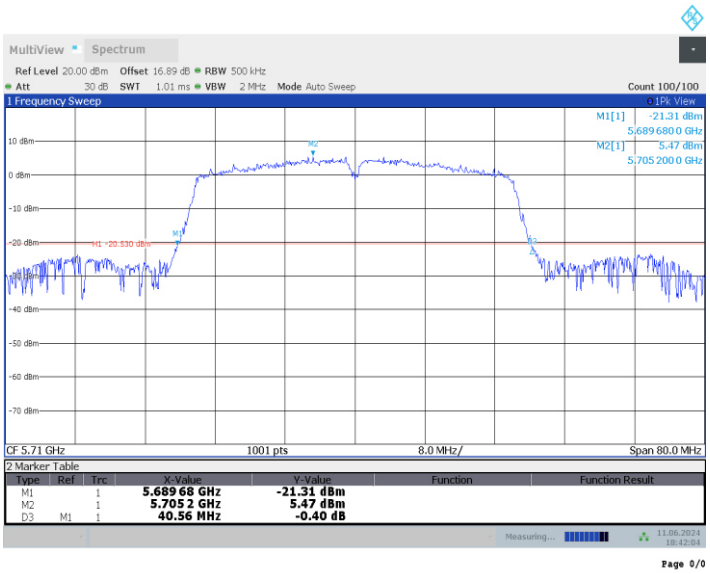


Fig.28 26dB Emission Bandwidth (802. 11n-HT40, 5710MHz)

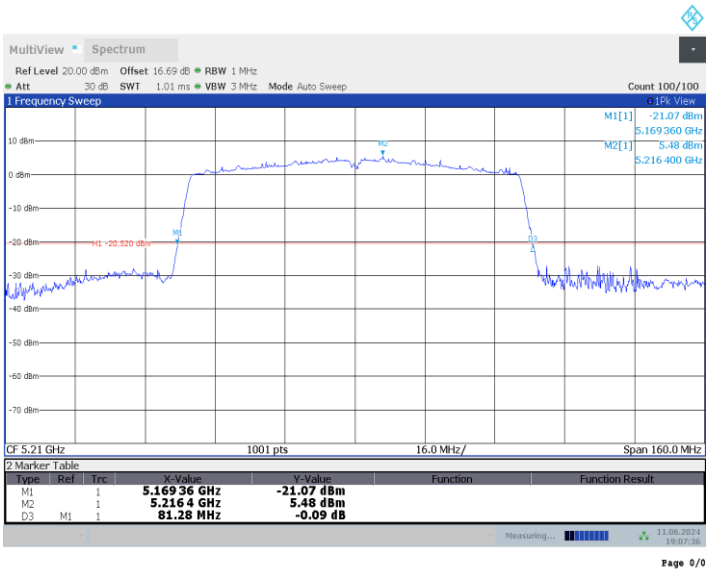


Fig.29 26dB Emission Bandwidth (802. 11ac-VHT80, 5210MHz)

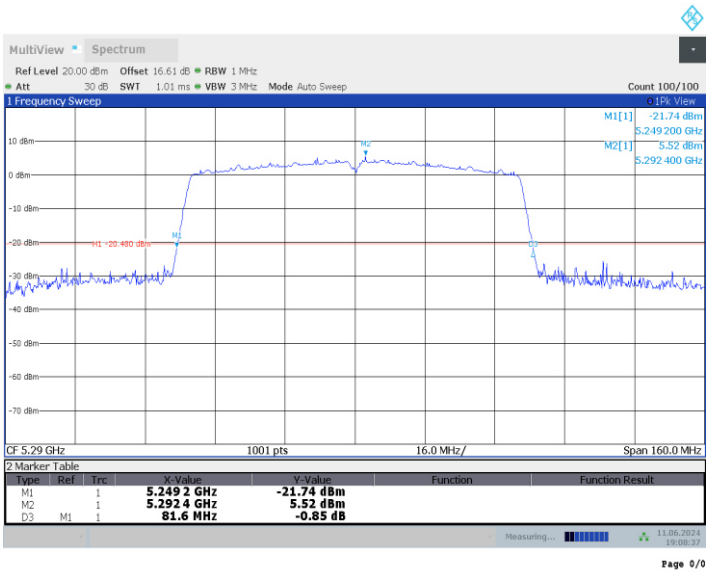


Fig.30 26dB Emission Bandwidth (802. 11ac-VHT80, 5290MHz)