



# FCC PART 15 TEST REPORT No.I23Z60483-IOT14

for

**OnePlus Technology (Shenzhen) Co., Ltd.**

**Mobile Phone**

**Model Name: CPH2551**

**FCC ID: 2ABZ2-AA541**

with

**Hardware Version: 11**

**Software Version: OxygenOS 13.2**

**Issued Date: 2023-07-20**

**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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I23Z60483-IOT14	Rev.0	1st edition	2023-07-05
I23Z60483-IOT14	Rev.1	Add the result of Channel puncturing; Update the information of master device; Add the note of BW(160M) information in section A.2/A.3.	2023-07-20

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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 NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

### 1.2. Testing Location

Conducted testing Location: CTTL(Huayuan North Road)

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

### 1.3. Testing Environment

Normal Temperature: 15-35°C

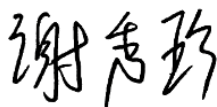
Relative Humidity: 20-75%

### 1.4. Project date

Testing Start Date: 2023-03-17

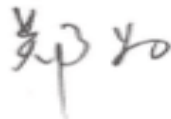
Testing End Date: 2023-07-05

### 1.5. Signature



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Xie Xiuzhen  
(Prepared this test report)



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Zheng Wei  
(Reviewed this test report)



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Pang Shuai  
(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.  
Address /Post: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,  
Binhe Avenue North, Futian District, Shenzhen  
City: Shenzhen  
Postal Code: /  
Country: China  
Telephone: (86)76986076999  
Fax: /

### **2.2. Manufacturer Information**

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.  
Address /Post: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,  
Binhe Avenue North, Futian District, Shenzhen  
City: Shenzhen  
Postal Code: /  
Country: China  
Telephone: (86)76986076999  
Fax: /

### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY**

#### **EQUIPMENT(AE)**

##### **3.1. About EUT**

Description	Mobile Phone
Model name	CPH2551
FCC ID	2ABZ2-AA541
WLAN Frequency Band	ISM Band: 5250MHz~5350MHz 5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Extreme vol. Limits	3.91V
Device Type (DFS)	Client without radar detection(only support client mode)
TPC mechanism	Not support

##### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
UT35a	868147060030673	11	OxygenOS 13.2

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

##### **3.3. General Description**

The Equipment Under Test (EUT) is a model of Mobile Phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test.

## 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	FCC CFR 47, Part 15, Subpart E: 15.407 General technical requirements.	2021
KDB 905462 D03	UNII Clients Without Radar Detection New Rules v01r02	2016
KDB 905642 D02	UNII DFS Compliance Procedures New Rules v02	2016

## 5. LABORATORY ENVIRONMENT

Measurement is performed in shielding room.

## 6. SUMMARY OF TEST RESULTS

### 6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Verdict
Channel move time and channel closing transmission time	15.407 (h)(2)(iii)	<b>P</b>
Non-Occupancy Period	15.407 (h)(2) (iv)	<b>P</b>

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 requested by the client/manufacturer 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 4.1.

This report only deal with the UNII DFS functions among the features described in section 3, and The EUT met all requirements of the reference documents.

The end user is not available to get and modify the parameters of the detected Radar Waveforms in this product.

Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage

V max	High Voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

For this report, all the test case listed above is tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	T nom	26°C
Voltage	V nom	3.91V
Humidity	H nom	44%
Air Pressure	A nom	1010hPa

## **7. TEST EQUIPMENTS UTILIZED**

### **Conducted test system**

<b>No.</b>	<b>Equipment</b>	<b>Model</b>	<b>Serial Number</b>	<b>Manufacturer</b>	<b>Calibration Period</b>	<b>Calibration Due Date</b>
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-06-15
2	Vector Signal Generator	SMU200A	103752	Rohde & Schwarz	1 year	2024-06-15
3	Shielding Room	S81	/	ETS-Lindgren	/	/

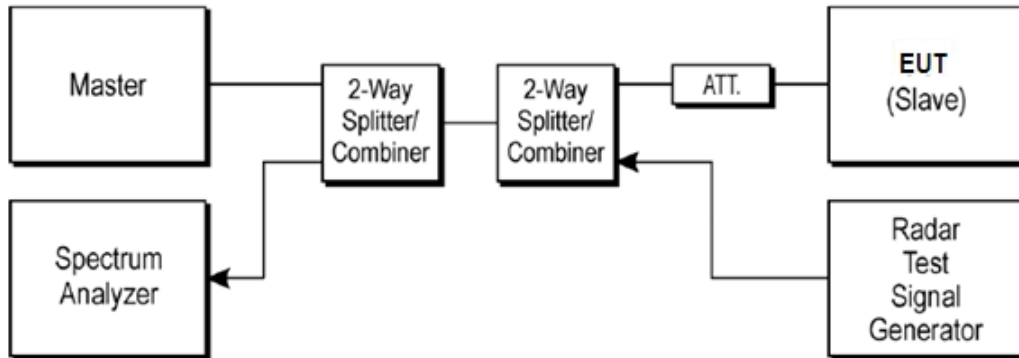


## ANNEX A: MEASUREMENT RESULTS

### A.1. Measurement Method

#### A.1.1. Conducted Measurements

The below figure shows the DFS setup, where the EUT is a WLAN device operating in slave mode, without Radar Interference Detection function. This setup also contains a device operating in master mode. The radar test signals are injected into the master device. The EUT (slave device) is associated with the master device. WLAN traffic is generated by streaming the mpeg file from the master to the slave in full monitor video mode using the media player.



Note:

- 1) All Measurements are performed with the EUT's narrowest and widest channel bandwidth.
- 2) The master device information is as follows  
 Name: WiFi 7 Router  
 Board Model: RDP433  
 Software Version: IPQ9574.ILQ.12.1-00367-P-1
- 3) The software of radar signal generator (R&S SMU200A) is completely designed based on KDB 905462 requirement.

#### A.1.2. Parameters of DFS test signal

1). Interference threshold values, master or client incorporation in service monitoring. For device power less than 23dBm (E.I.R.P.), the threshold level is -62 dBm at the antenna port after correction for antenna gain and procedural adjustments.

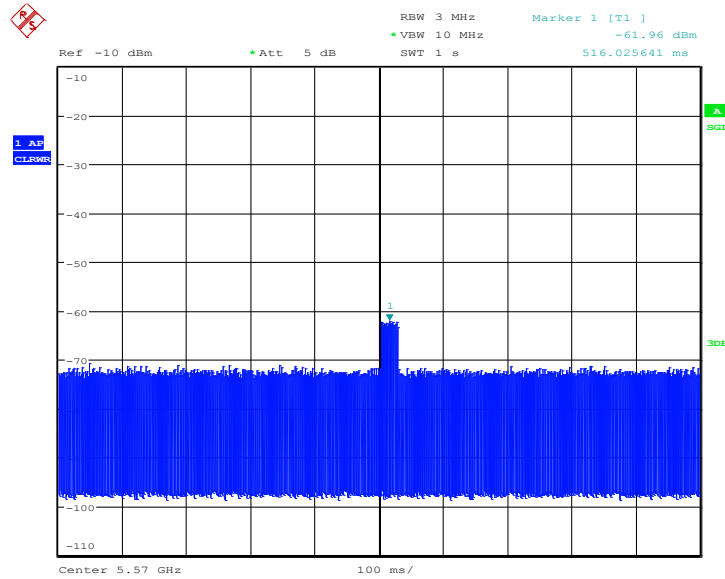
Because of conducted measurement performed, the calibration power from radar signal generator to antenna port of DFS test equipment is -62 dBm.

Maximum Transmit Power	Value
> 200 mW	-64 dBm
< 200 mW	-62 dBm

The radar Detection Threshold, lowest antenna gain is the parameter of interference radar DFS detection threshold.

One 10 Second plot bee reported for the short Pulse Radar type 1-4, the type 0 was be used, which was selected by auto test software.

Radar Waveform Calibration Result:



Date: 27.JUN.2023 18:42:40

**Fig.A.1 160M Calibration Result**

2). DFS requirement values

The required values are as the following table.

Parameter	Value
Non-occupancy	> 1800 s
Channel Availability Check Time	60 s
Channel Move Time	10 s
Channel Closing Transmission Time	200 ms + 60 ms
U-NII Detection Bandwidth	Minimum 80% of the 99% transmission power bandwidth

As the EUT is IP based system, the MPEG video file from NTIA website is used to steam to EUT via the Master device.

**A.1.3. Measurement Uncertainty**

Item	Measurement Uncertainty
Time	0.70 ms
Power	0.75 dBm

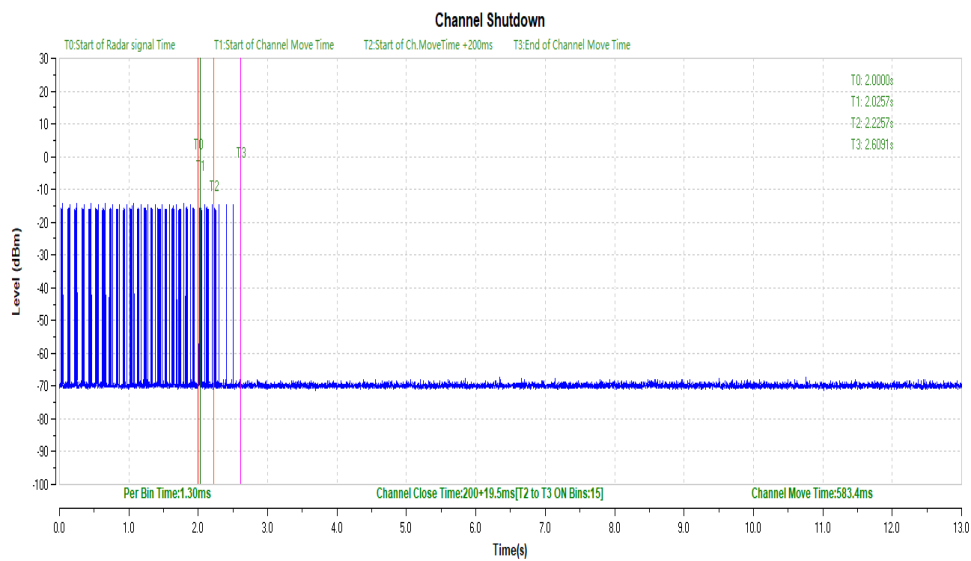
## A.2. Channel move time and channel closing transmission time

### Measurement Limit:

Test Items	Limit
channel closing transmission time	< 200 ms + 60 ms
Channel move time	< 10 s

### Measurement Results:

Frequency Band: 5250MHz ~ 5350MHz(160M)

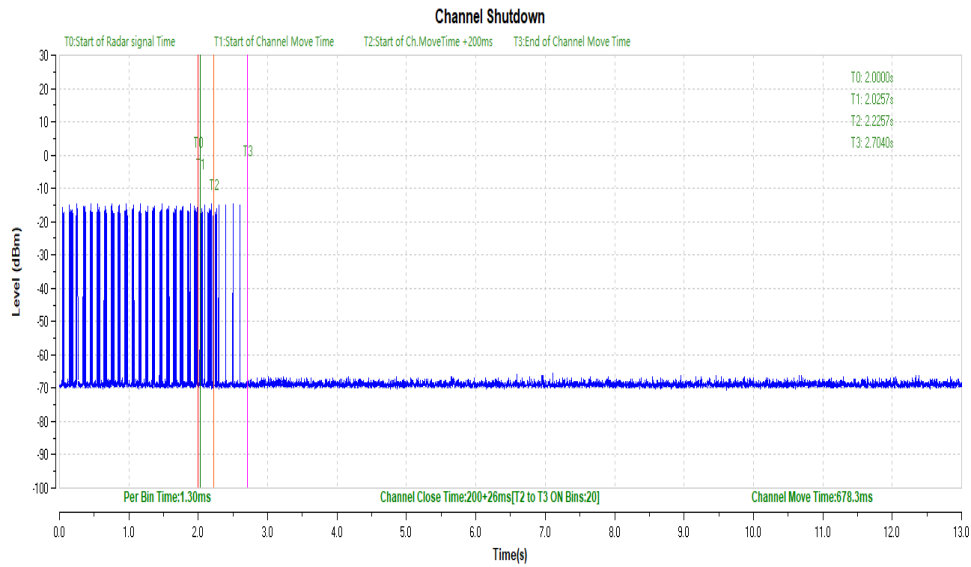


**Fig.A.2 Channel closing transmission time and channel move time**

The Channel closing transmission time and channel move time is as the figure. It shows the time of the radar and the client pulses. The figure shows that the client stops transmission within 10 seconds, and no transmissions occur after 10 seconds later of the radar burst signal.

**Conclusion: PASS**

**Frequency Band 5470MHz ~ 5725MHz(160M)**



**Fig.A.3 Channel closing transmission time and channel move time**

The Channel closing transmission time and channel move time is as the figure. It shows the time of the radar and the client pulses. The figure shows that the client stops transmission within 10 seconds, and no transmissions occur after 10 seconds later of the radar burst signal.

**Conclusion: PASS**

### A.3.Non-Occupancy Period

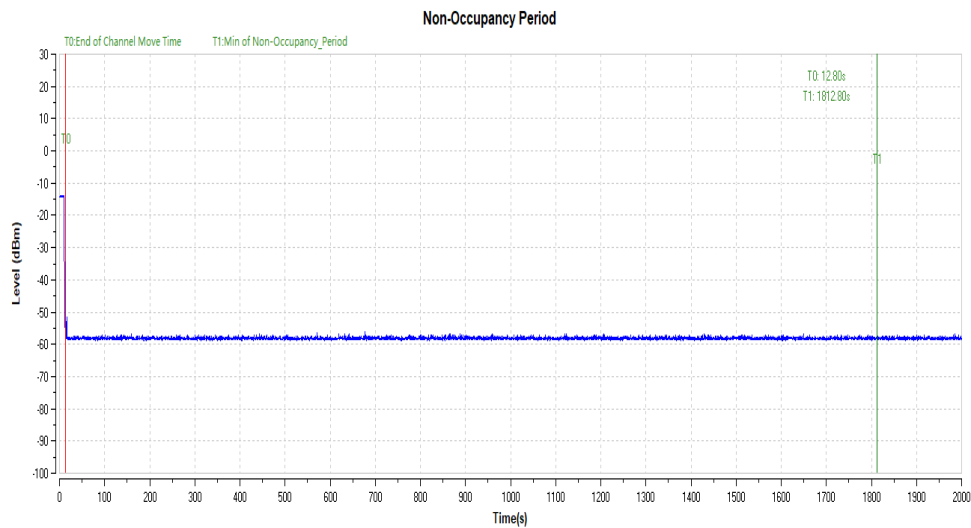
#### Measurement Limit:

Test Items	Limit
Non-Occupancy Period	> 1800 s

#### A3.1 Associated test

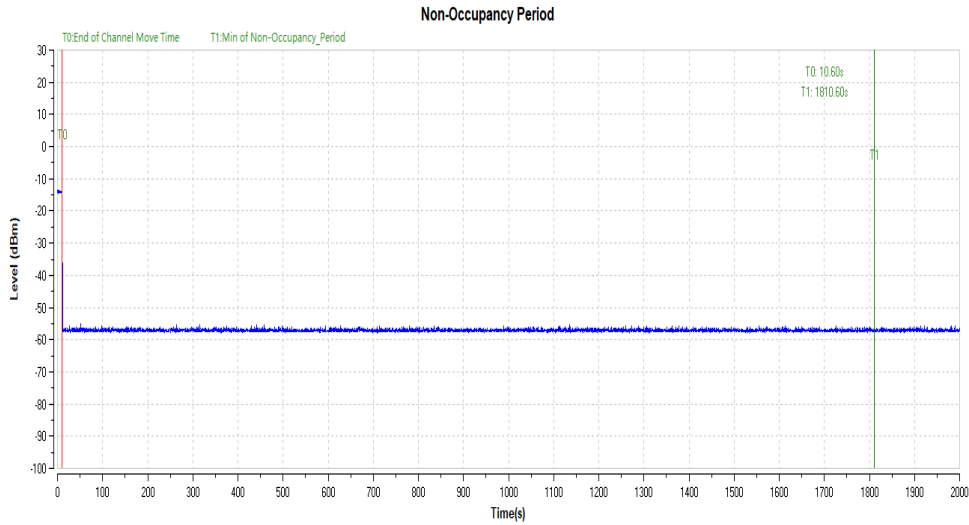
Associate the master and client, transmit specified stream between the master and client; monitor the analyzer on the operating frequency to make sure no beacons have been transmitted for 1800 seconds.

#### Frequency Band: 5250MHz ~ 5350MHz(160M)



**Fig.A.4 Non-Occupancy Period**

The figure above shows that the client does not transmit any emission within 1800 seconds after getting the order of “stop transmits” from the DFS master (access point).

**Frequency Band: 5470MHz ~ 5725MHz(160M)**

**Fig.A.5 Non-Occupancy Period**

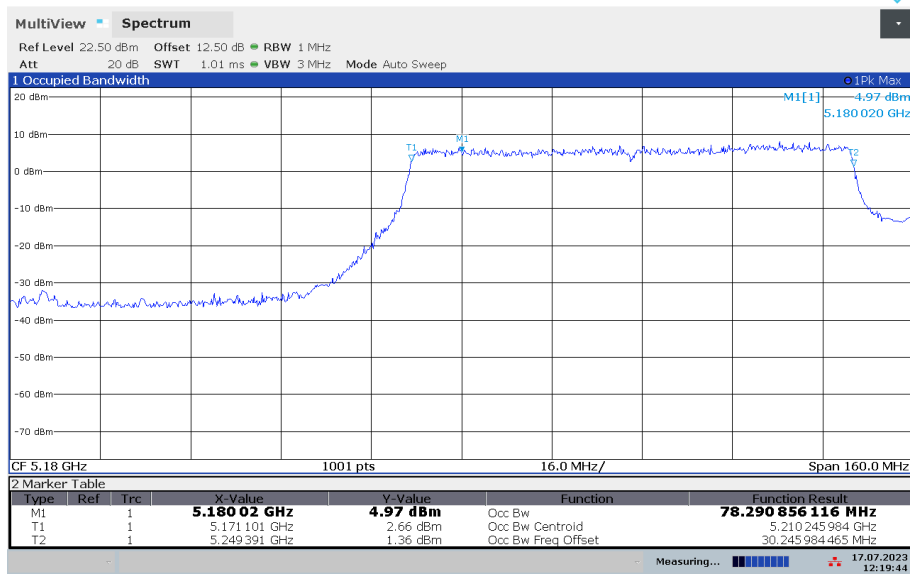
The figure above shows that the client does not transmit any emission within 1800 seconds after getting the order of “stop transmits” from the DFS master (access point).

**Conclusion: PASS**
**A.4.Channel puncturing**
**A.4.1Check 99% OBW**

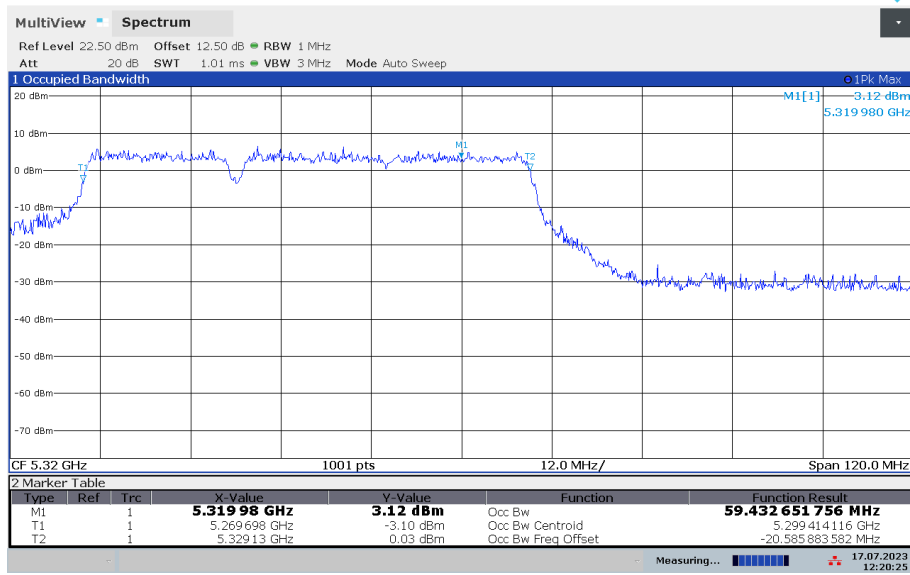
Test Mode	Antenna	Fre (MHz)	Puncturing	configure	OCB
11BE160MIMO	Ant7	5250	Puncturing 20M	5	78.37
		5250	Puncturing 20M		59.72
	Ant10	5250	Puncturing 20M	5	78.29
		5250	Puncturing 20M		59.43
	Ant7	5250	Puncturing 20M	6	98.50
		5250	Puncturing 20M		38.24
	Ant10	5250	Puncturing 20M	6	98.47
		5250	Puncturing 20M		38.39
	Ant7	5250	Puncturing 20M	7	117.85
		5250	Puncturing 20M		19.19
	Ant10	5250	Puncturing 20M	7	117.89
		5250	Puncturing 20M		19.06
	Ant7	5250	Puncturing 20M	8	138.48
		5250	Puncturing 20M		138.37
	Ant7	5250	Puncturing 40M	3	78.23
		5250	Puncturing 40M		38.29
	Ant10	5250	Puncturing 40M	3	78.15
		5250	Puncturing 40M		38.28

	Ant7	5250	Puncturing 40M	4	118.05
	Ant10	5250	Puncturing 40M	4	118.23
	Ant7	5570	Puncturing 20M	1	138.45
	Ant10	5570	Puncturing 20M	1	138.65
	Ant7	5570	Puncturing 20M	2	19.21
		5570	Puncturing 20M		118.22
	Ant10	5570	Puncturing 20M	2	19.02
		5570	Puncturing 20M		118.21
	Ant7	5570	Puncturing 20M	3	38.34
		5570	Puncturing 20M		99.67
	Ant10	5570	Puncturing 20M	3	38.31
		5570	Puncturing 20M		99.56
	Ant7	5570	Puncturing 20M	4	59.75
		5570	Puncturing 20M		78.40
	Ant10	5570	Puncturing 20M	4	59.44
		5570	Puncturing 20M		78.43
	Ant7	5570	Puncturing 20M	5	78.37
		5570	Puncturing 20M		59.65
	Ant10	5570	Puncturing 20M	5	78.33
		5570	Puncturing 20M		59.77
	Ant7	5570	Puncturing 20M	6	98.34
		5570	Puncturing 20M		38.29
	Ant10	5570	Puncturing 20M	6	98.56
		5570	Puncturing 20M		38.33
	Ant7	5570	Puncturing 20M	7	117.87
		5570	Puncturing 20M		19.04
	Ant10	5570	Puncturing 20M	7	117.89
		5570	Puncturing 20M		19.09
	Ant7	5570	Puncturing 20M	8	138.30
	Ant10	5570	Puncturing 20M	8	138.24
	Ant7	5570	Puncturing 40M	1	118.21
	Ant10	5570	Puncturing 40M	1	118.42
	Ant7	5570	Puncturing 40M	2	38.20
		5570	Puncturing 40M		78.32
	Ant10	5570	Puncturing 40M	2	38.31
		5570	Puncturing 40M		78.35
	Ant7	5570	Puncturing 40M	3	78.14
		5570	Puncturing 40M		38.14
	Ant10	5570	Puncturing 40M	3	78.28
		5570	Puncturing 40M		38.46
	Ant7	5570	Puncturing 40M	4	118.35
		5570	Puncturing 40M		118.28

## 11BE160MIMO\_Ant10\_5250\_Puncturing 20M\_5

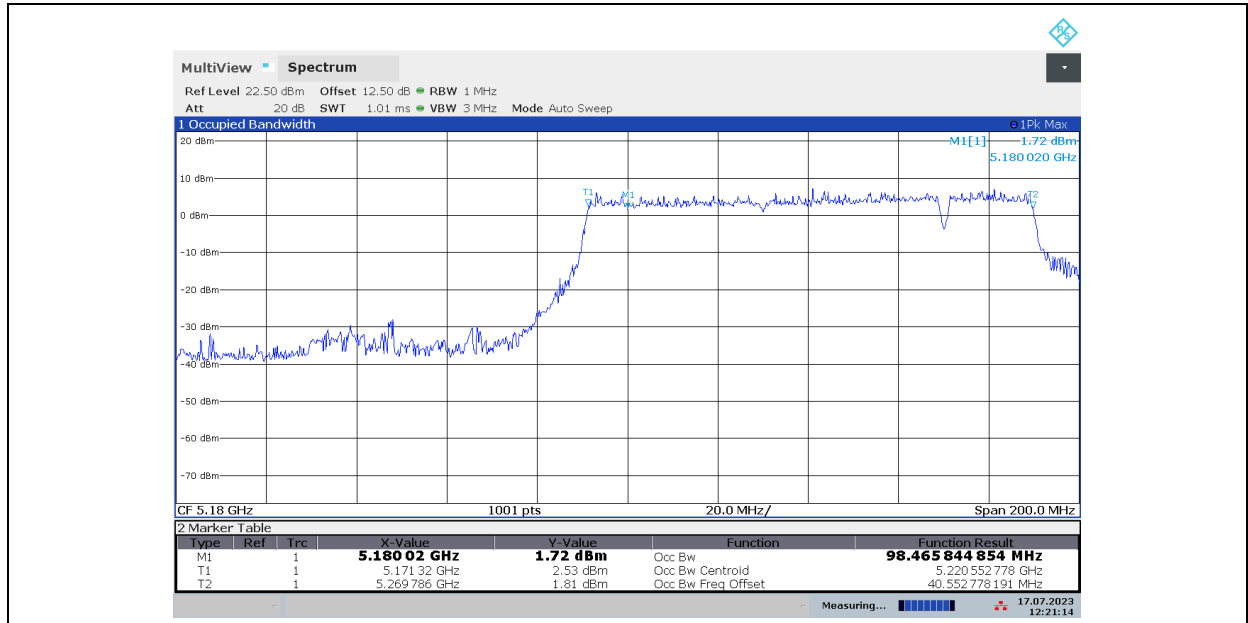


## 11BE160MIMO\_Ant10\_5250\_Puncturing 20M\_5

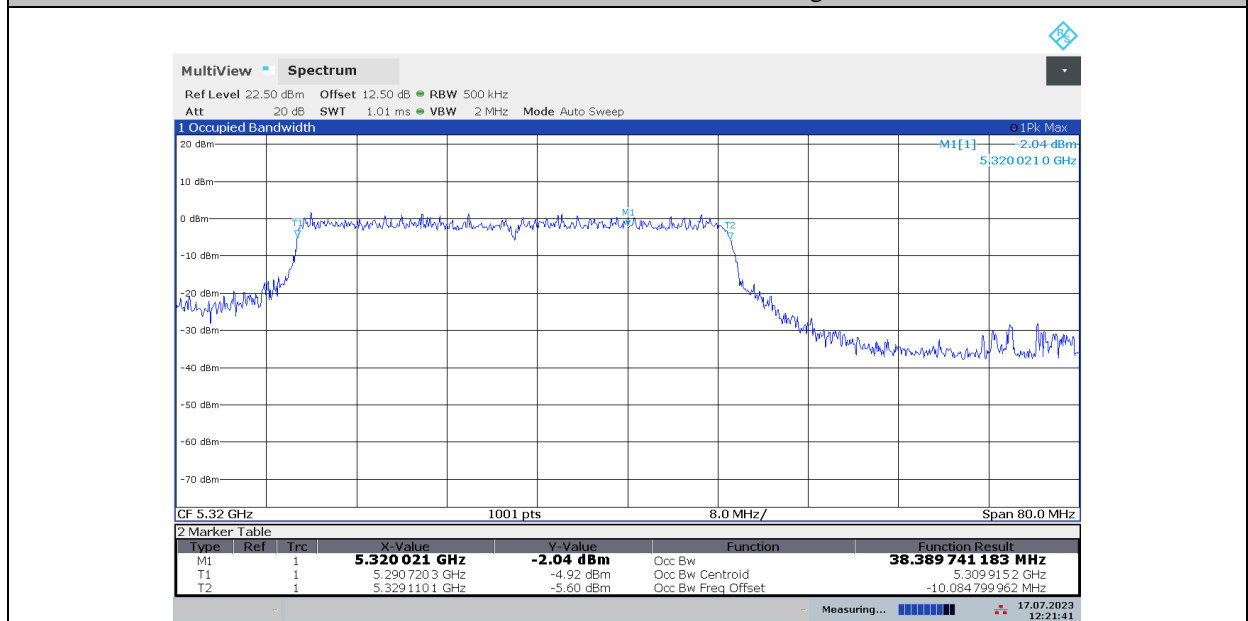


## 11BE160MIMO\_Ant10\_5250\_Puncturing 20M\_6

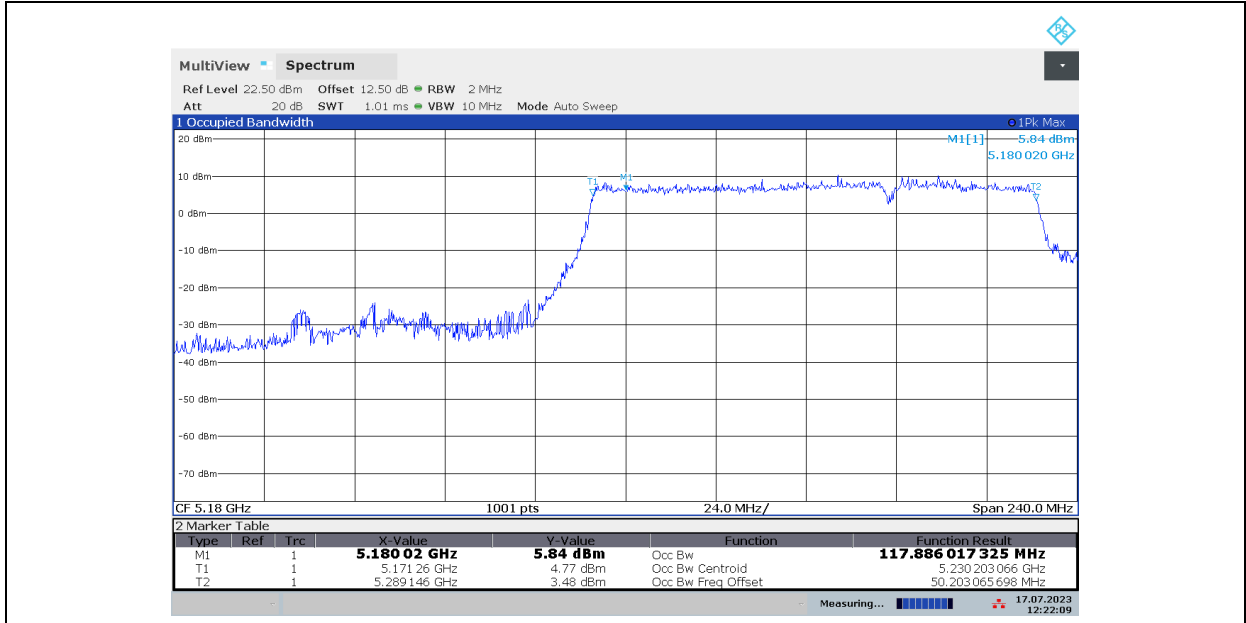




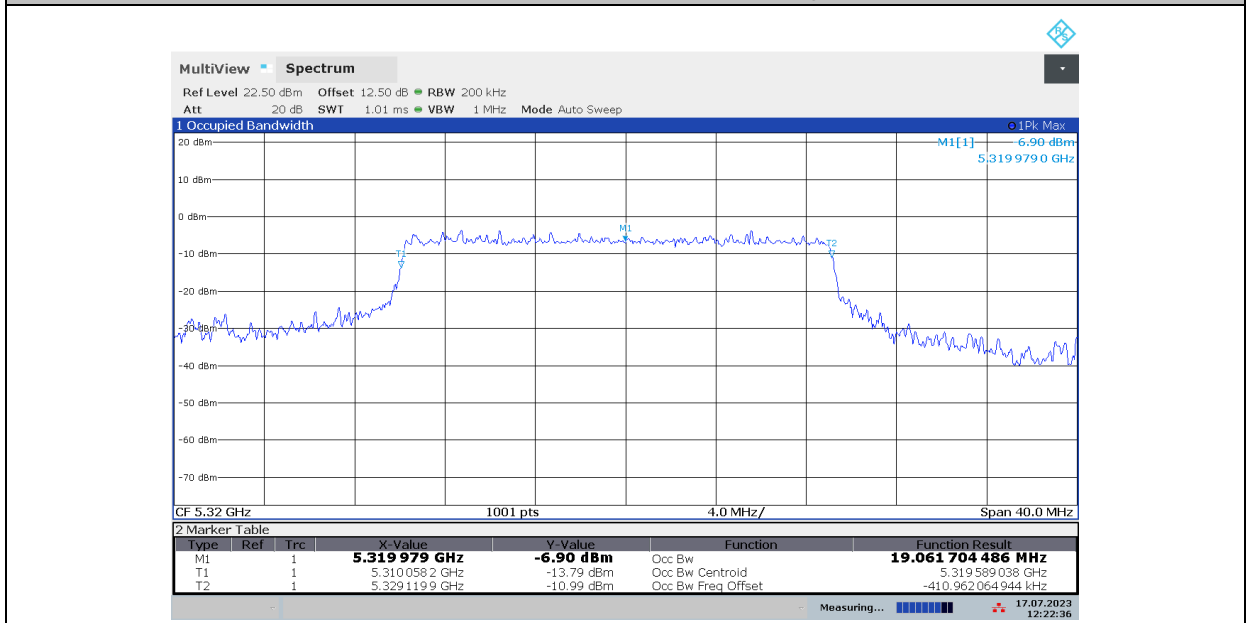
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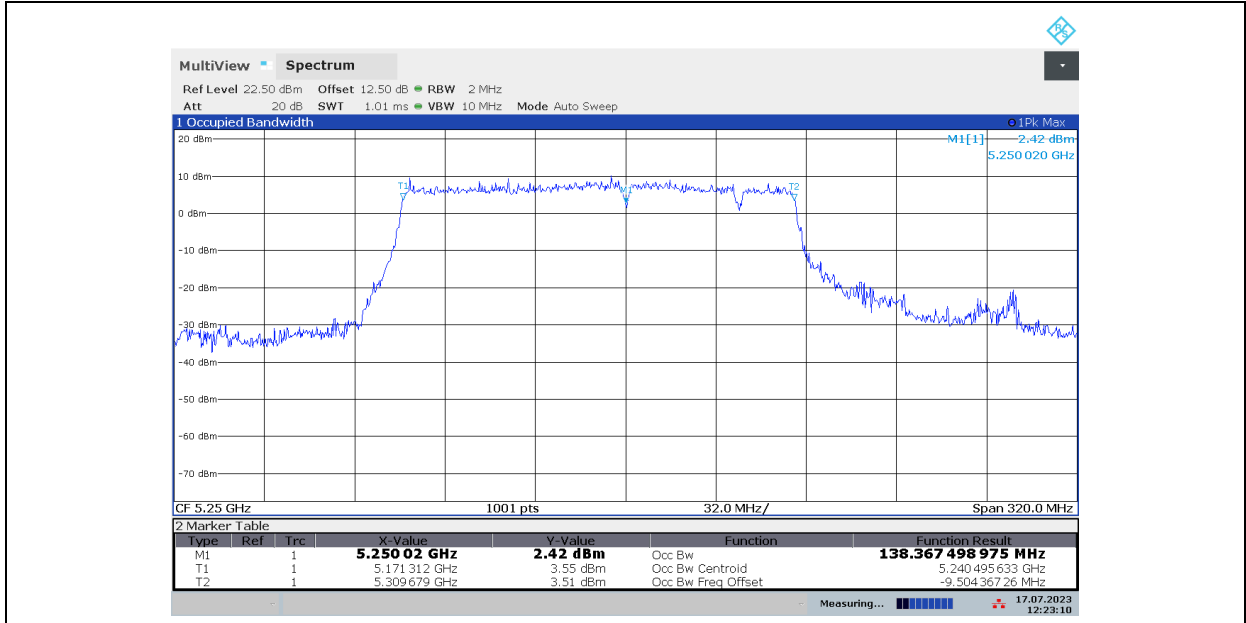
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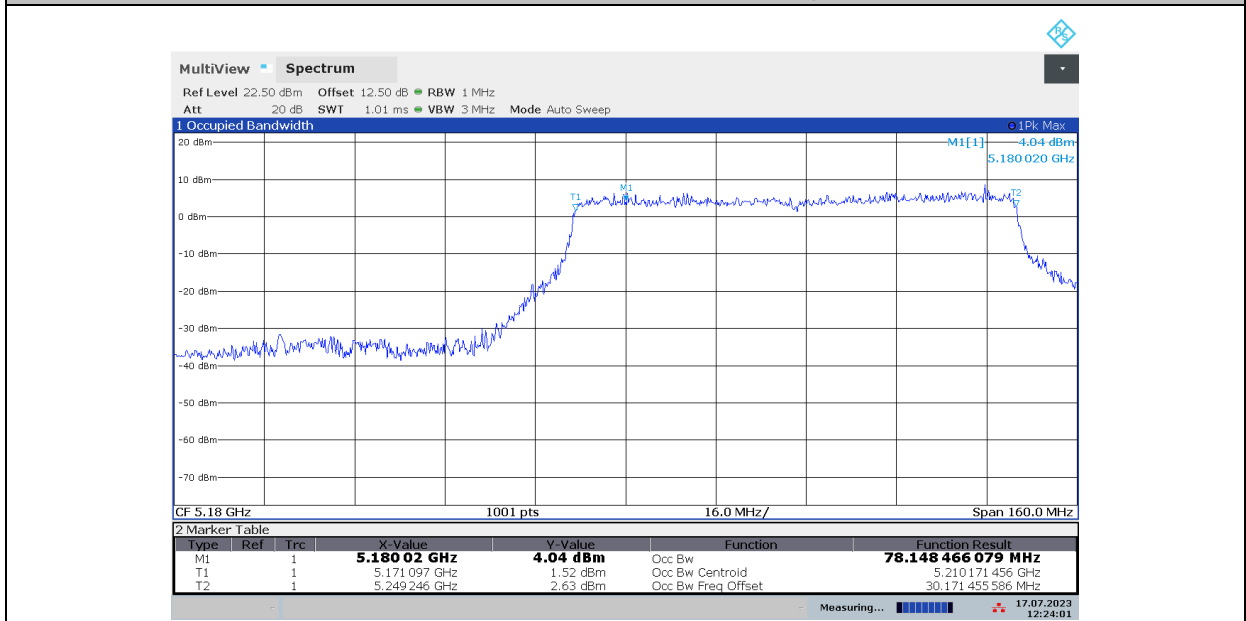
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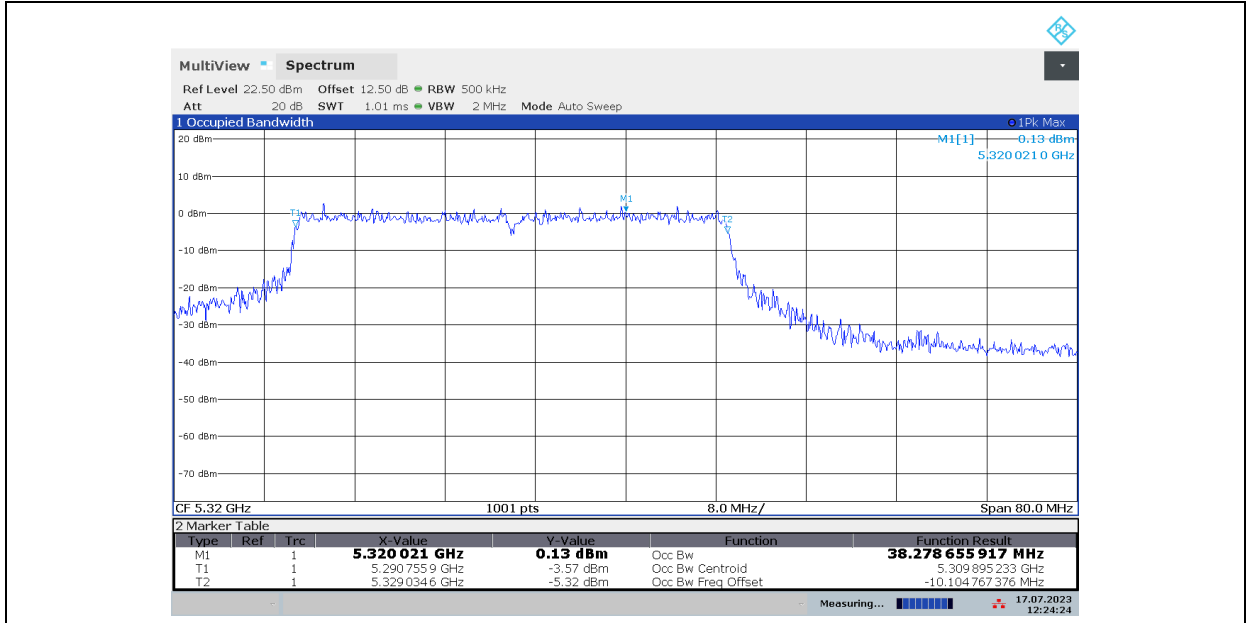
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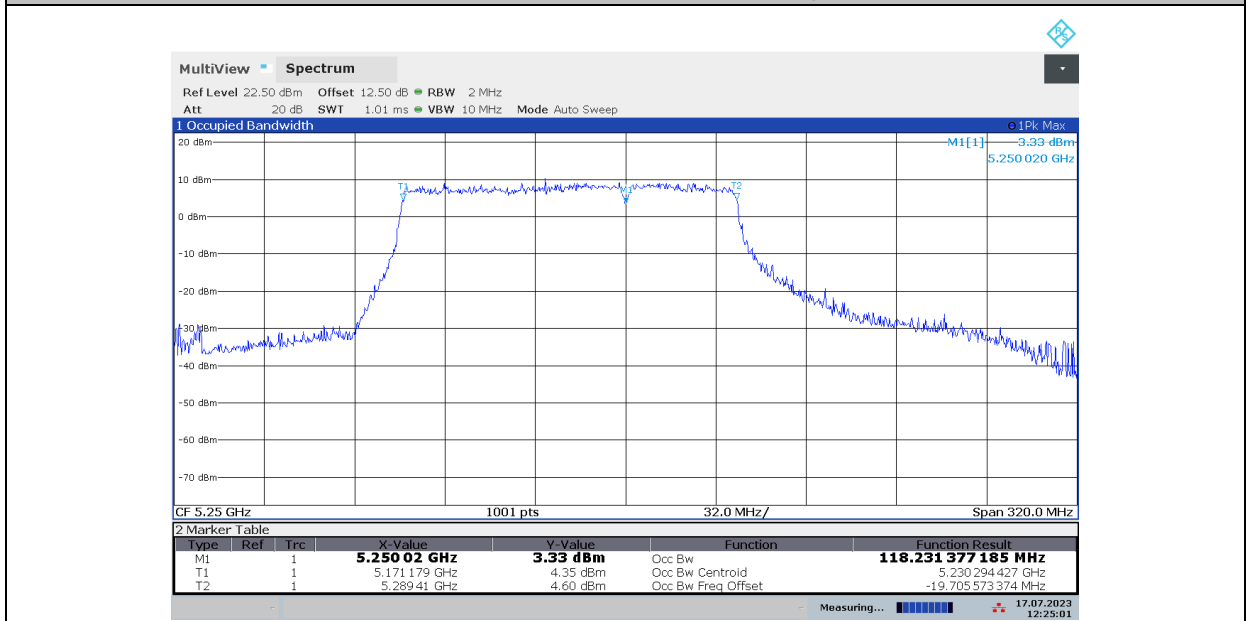
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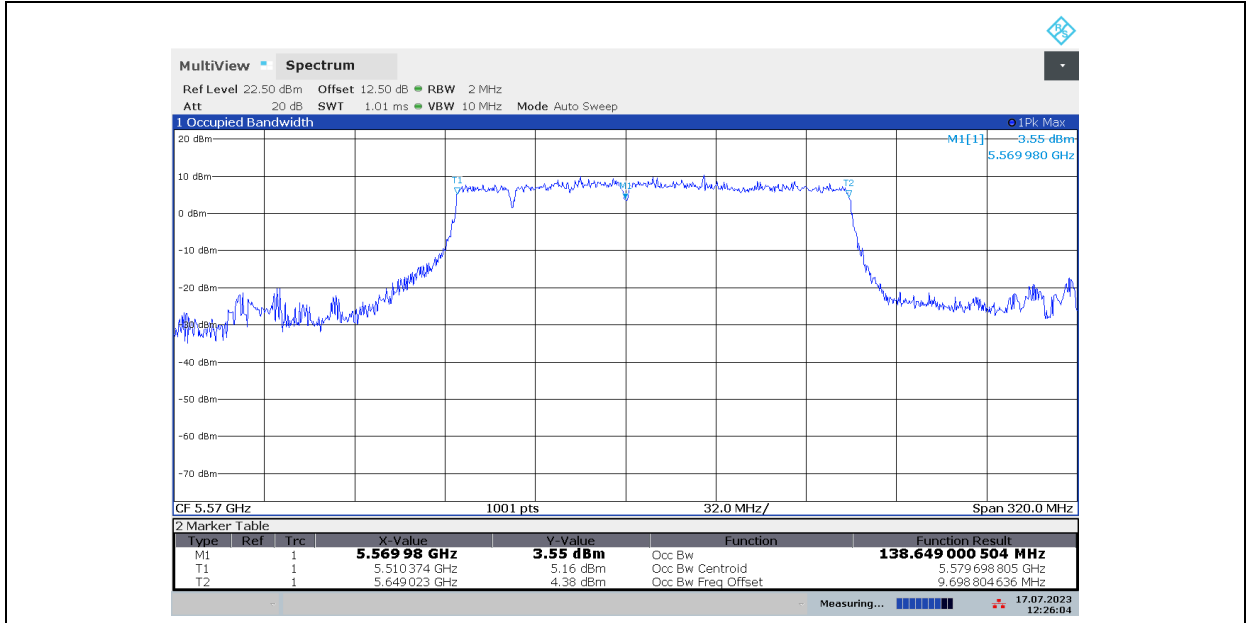
11BE160MIMO\_Ant10\_5250\_Puncturing 40M\_3



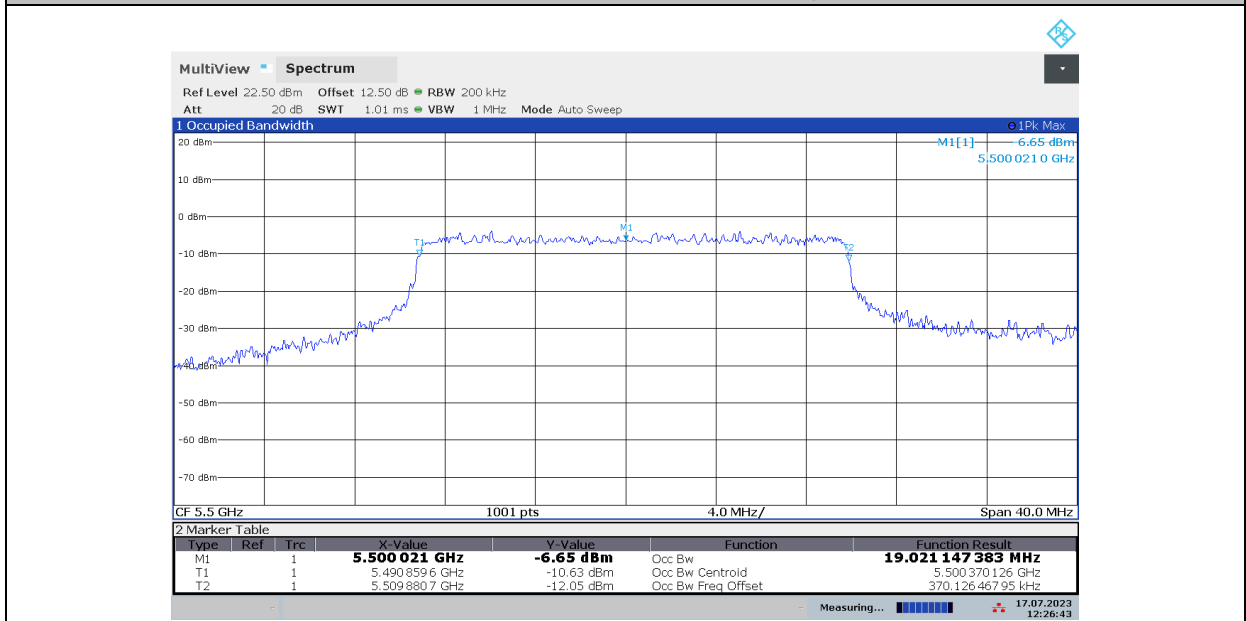
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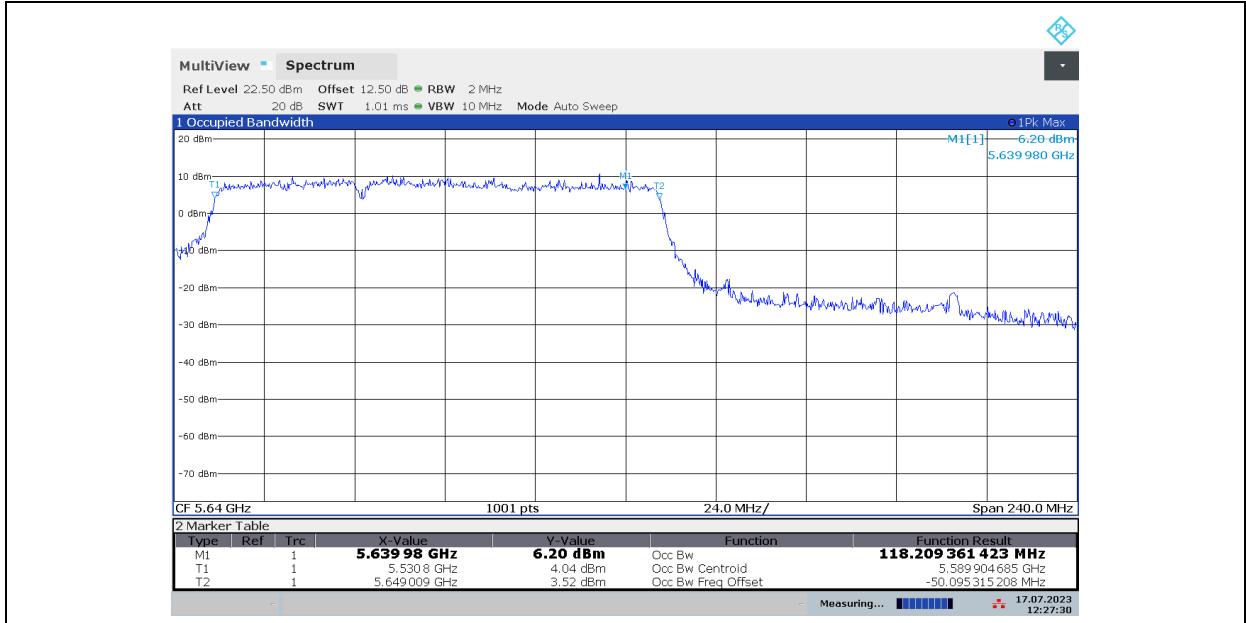
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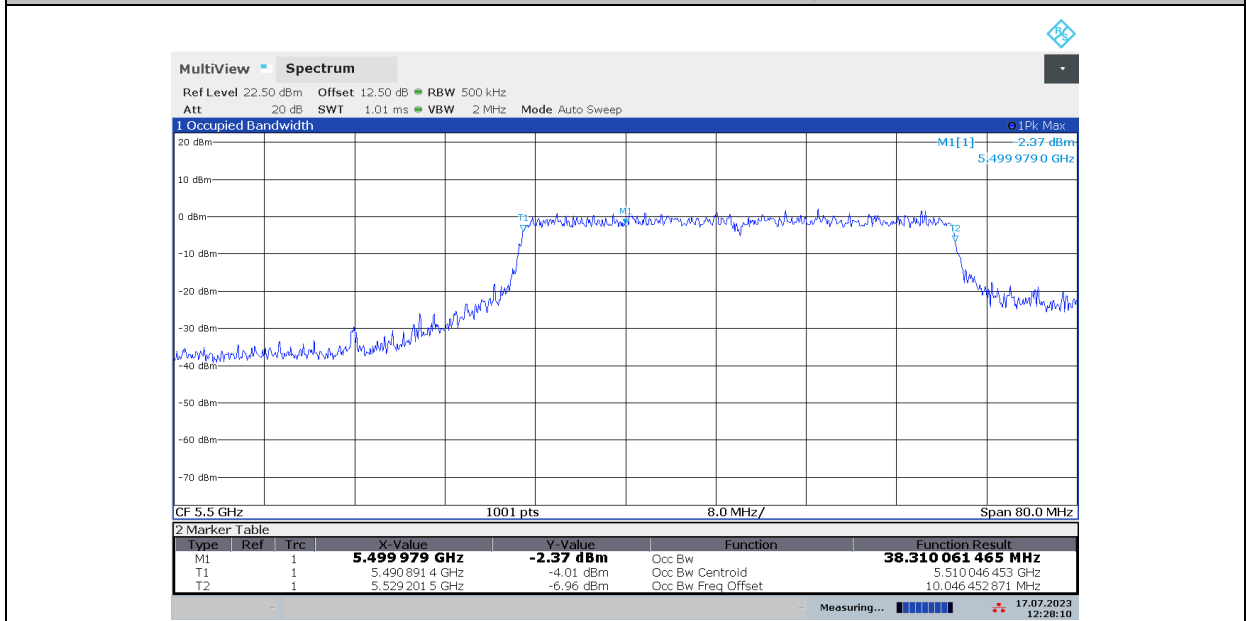
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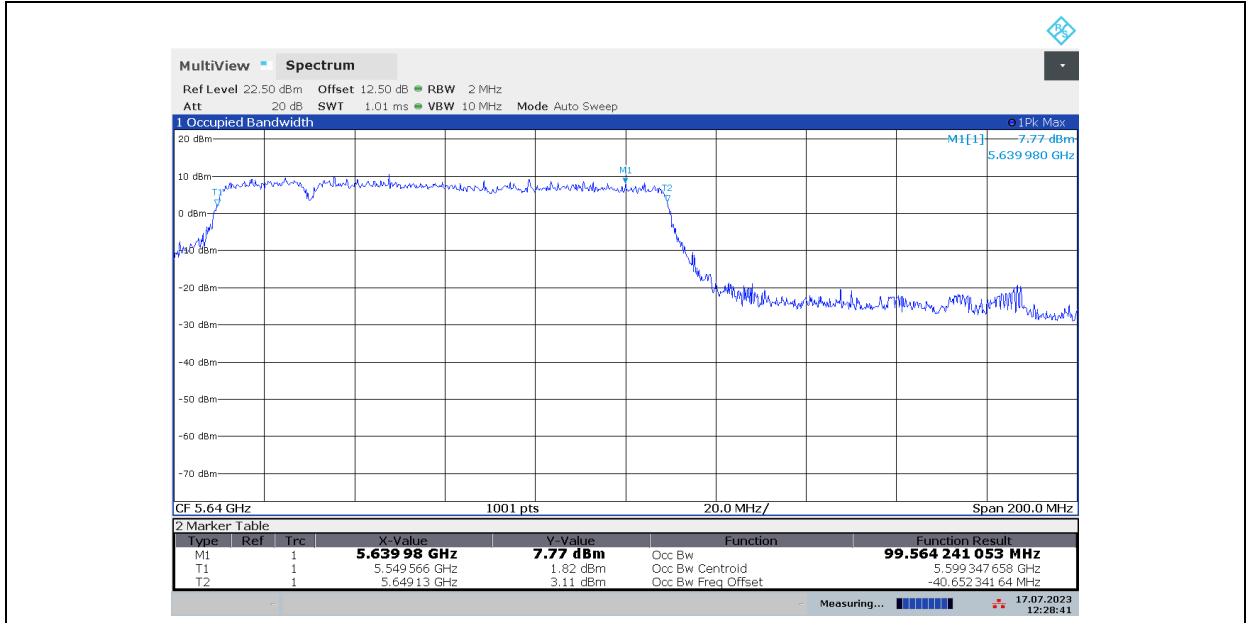
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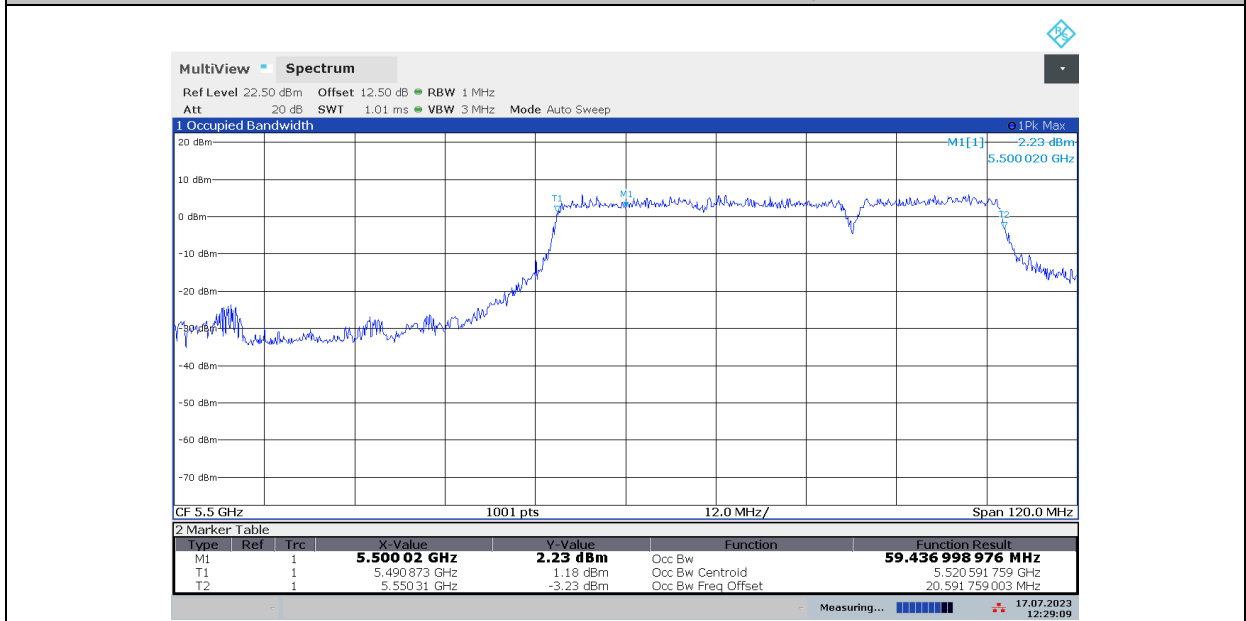
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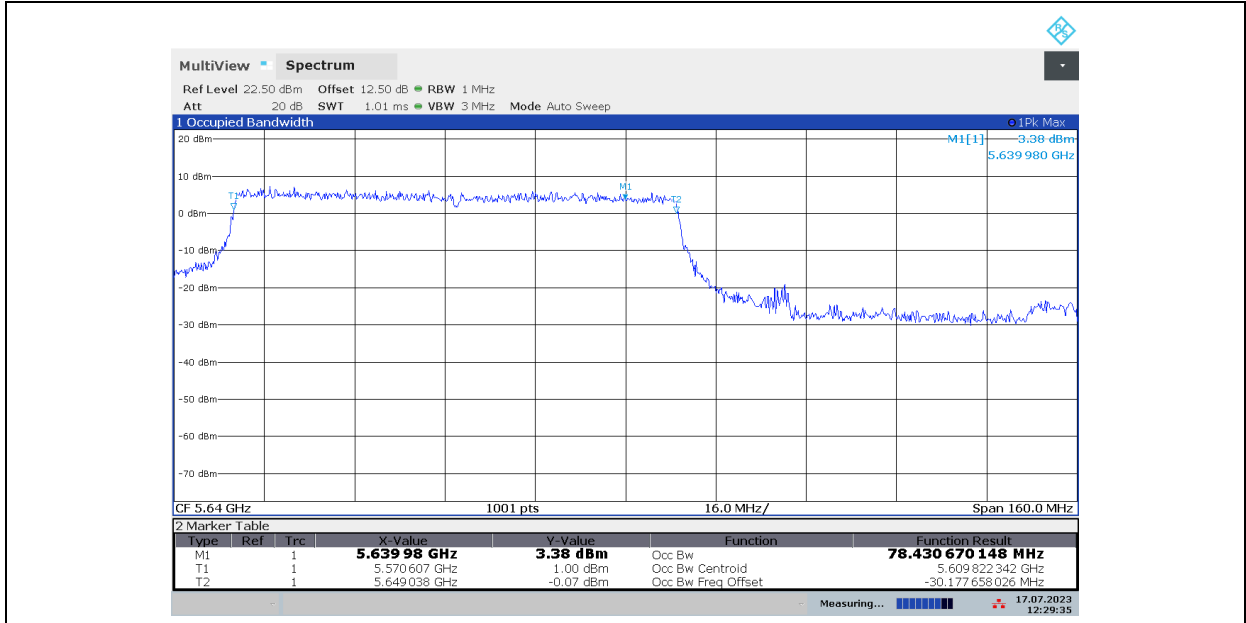
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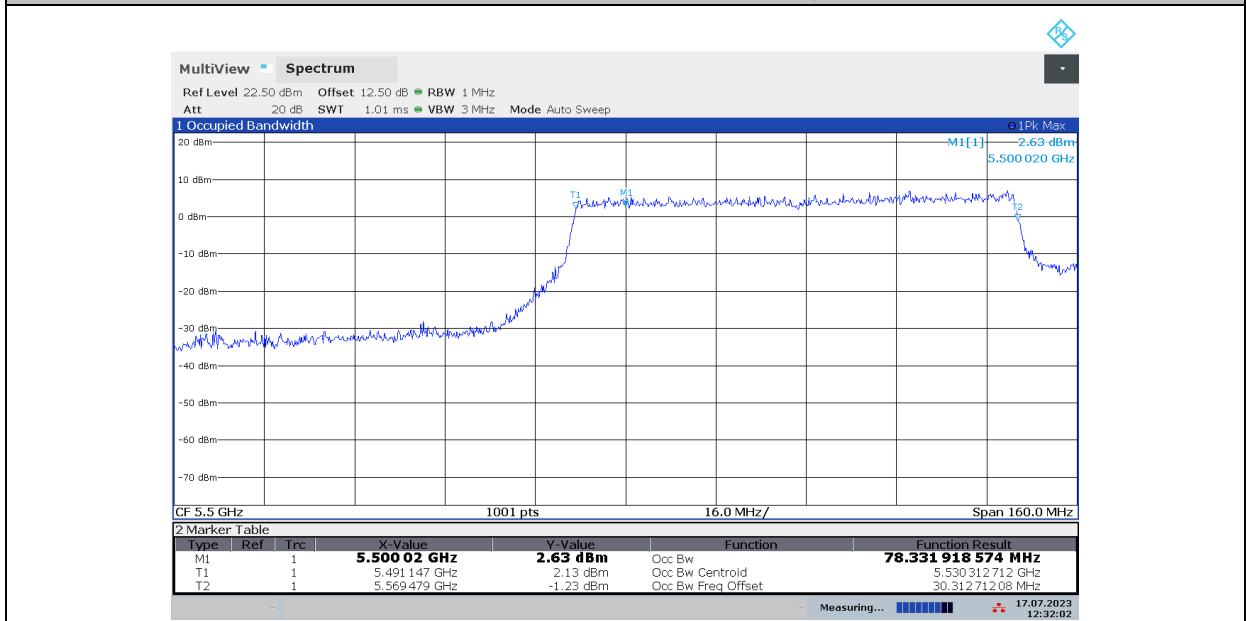
11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_4



11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_4

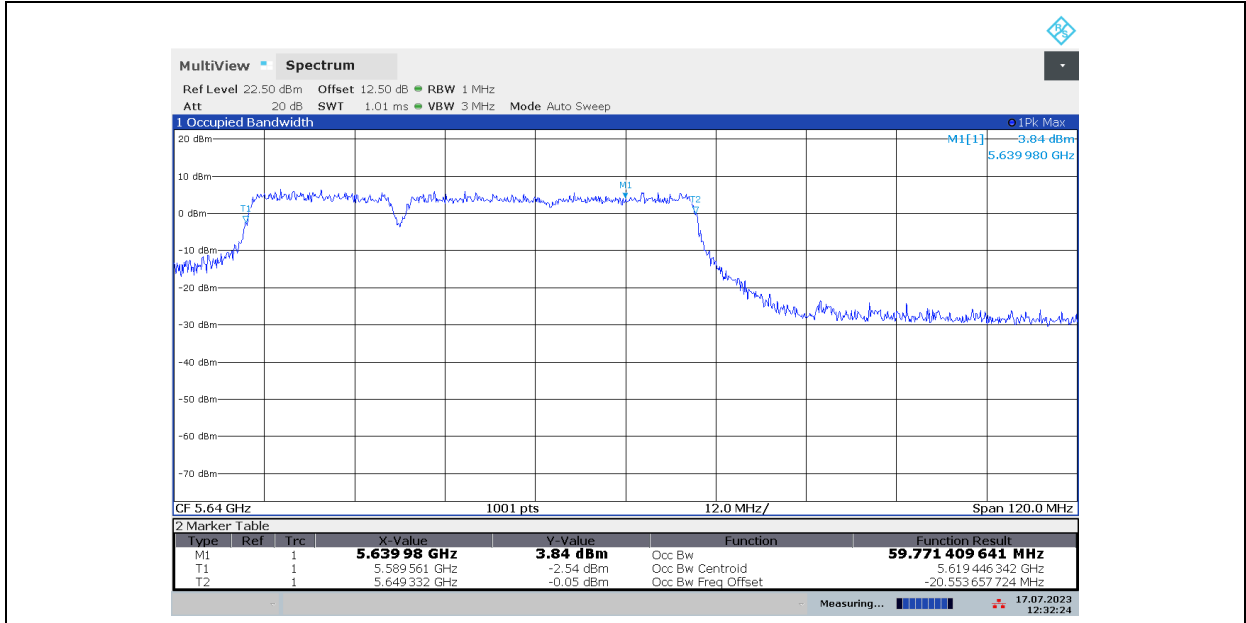


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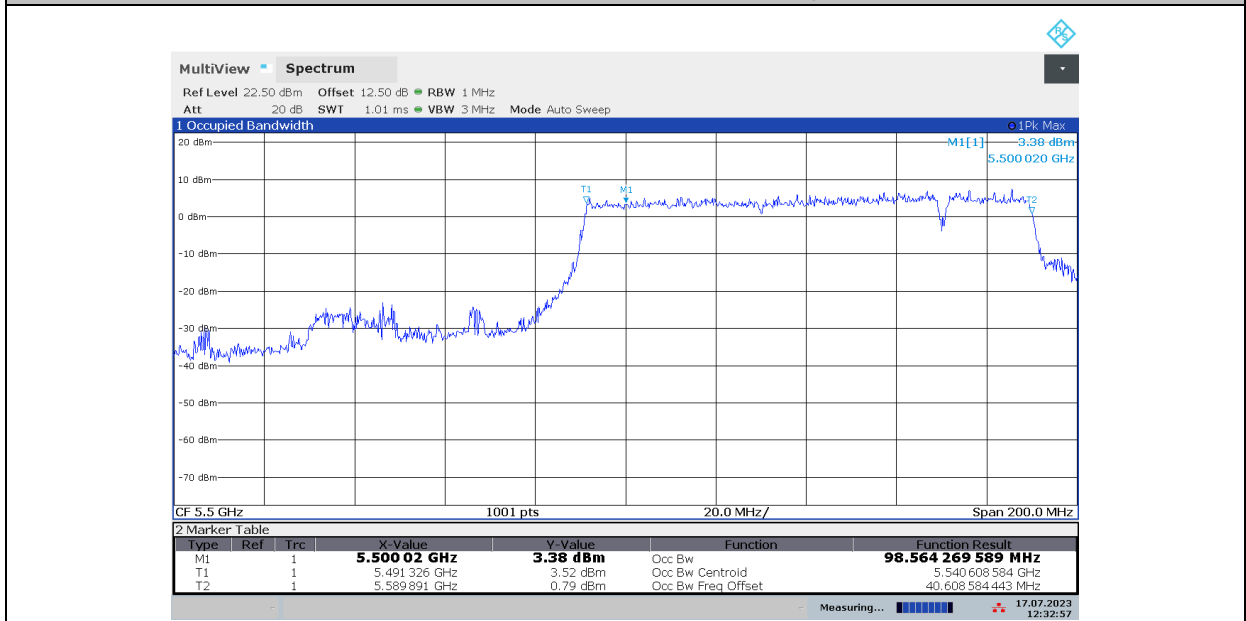


11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_5

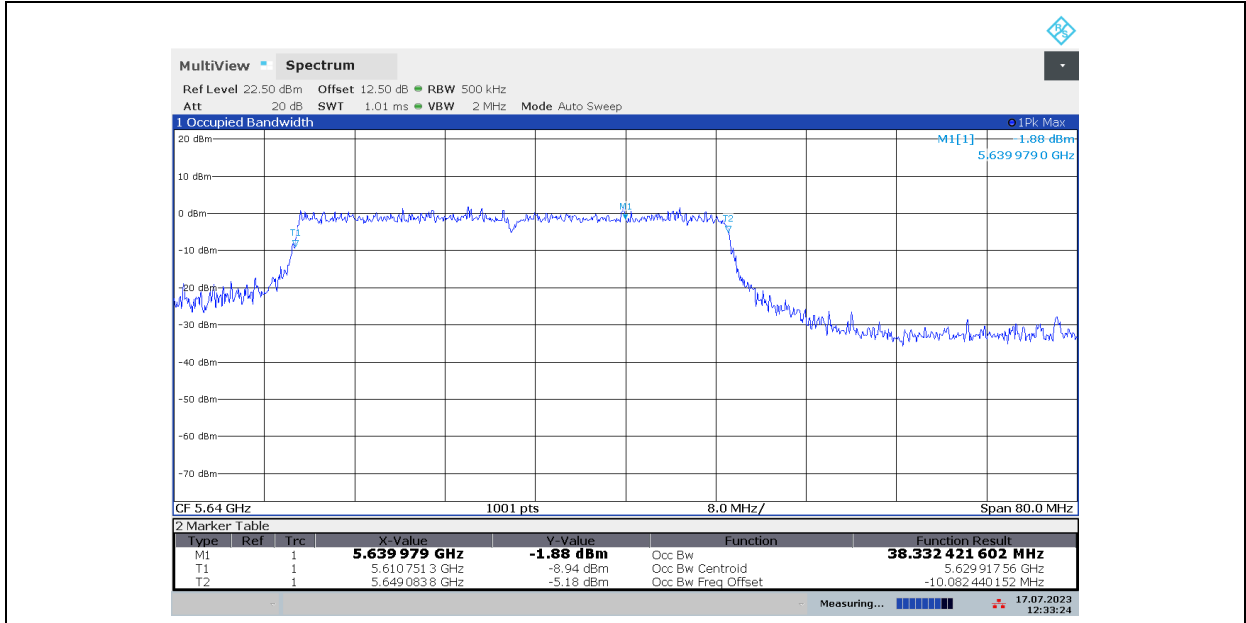




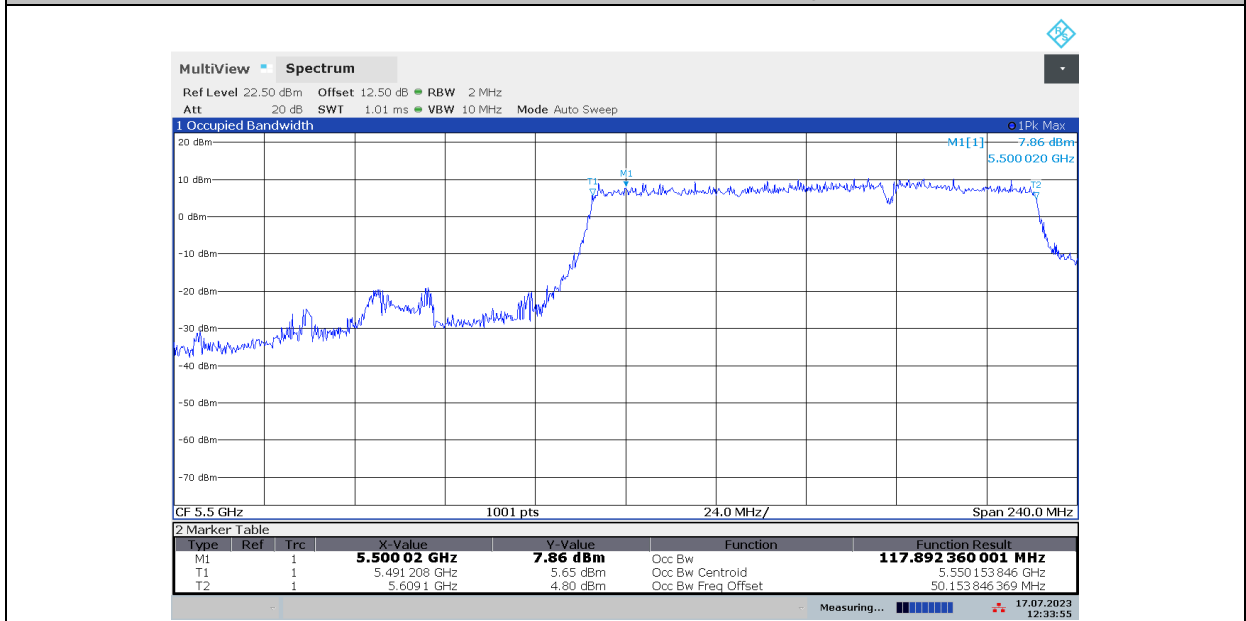
11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_6



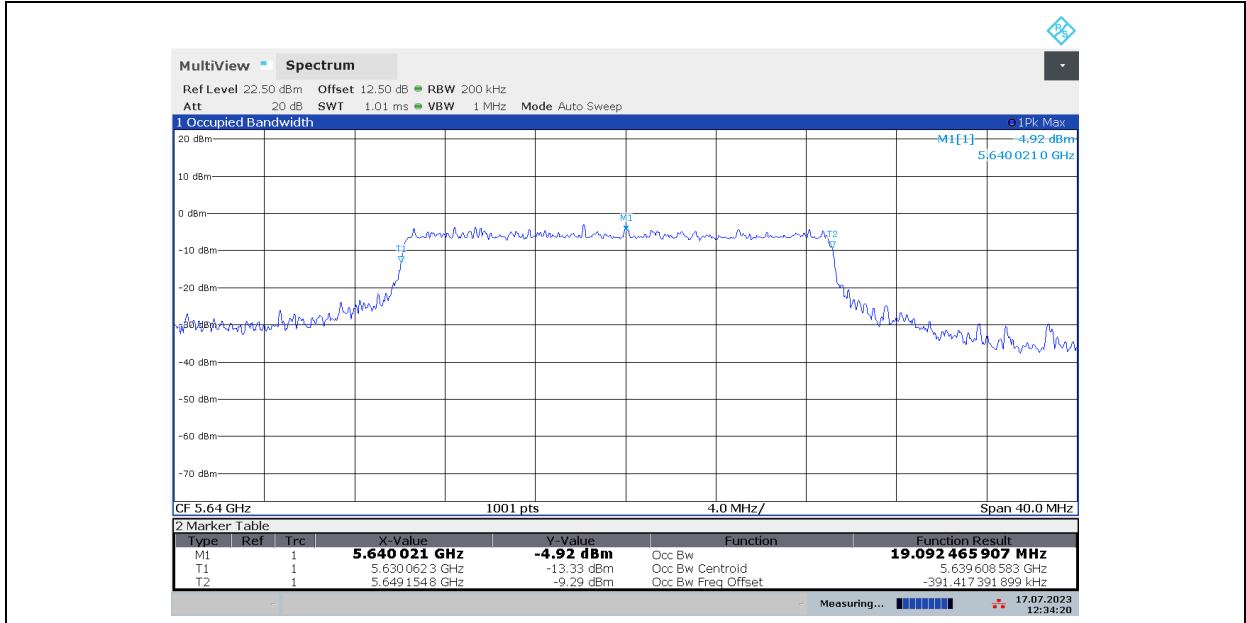
11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_6



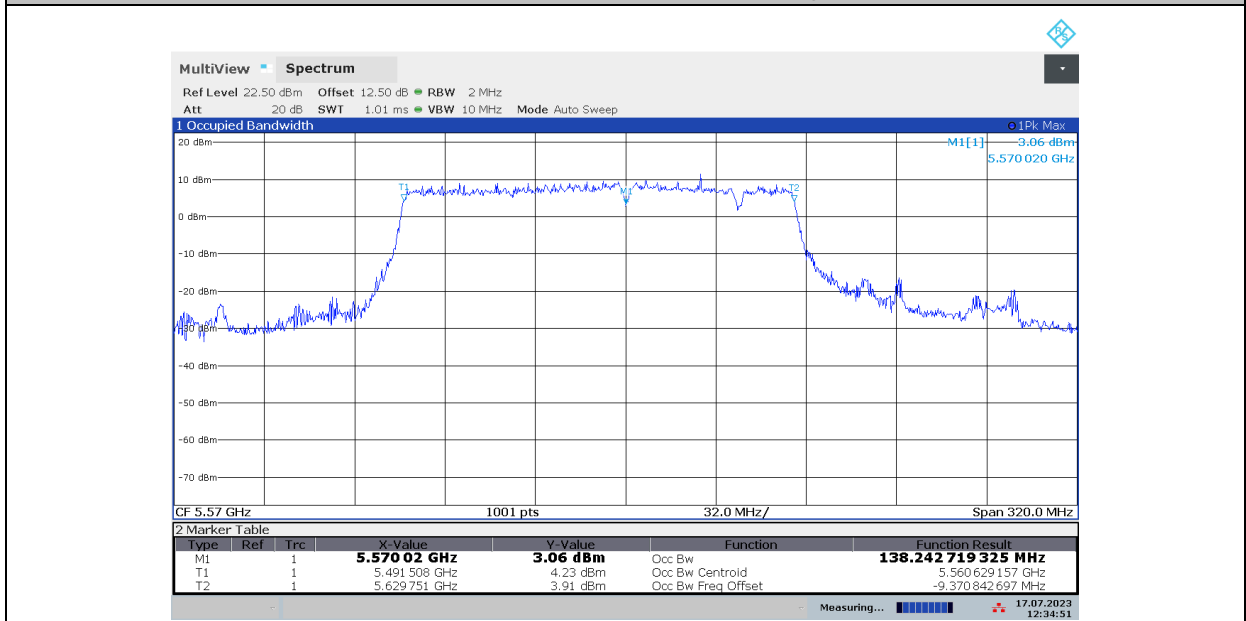
11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_7



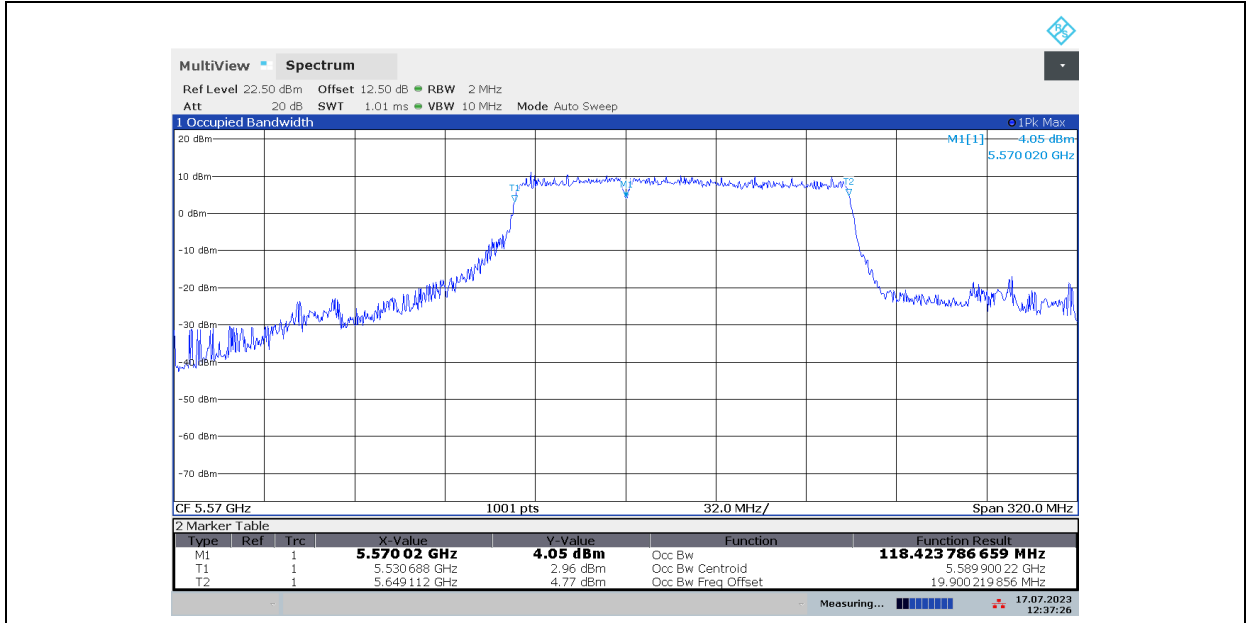
11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_7



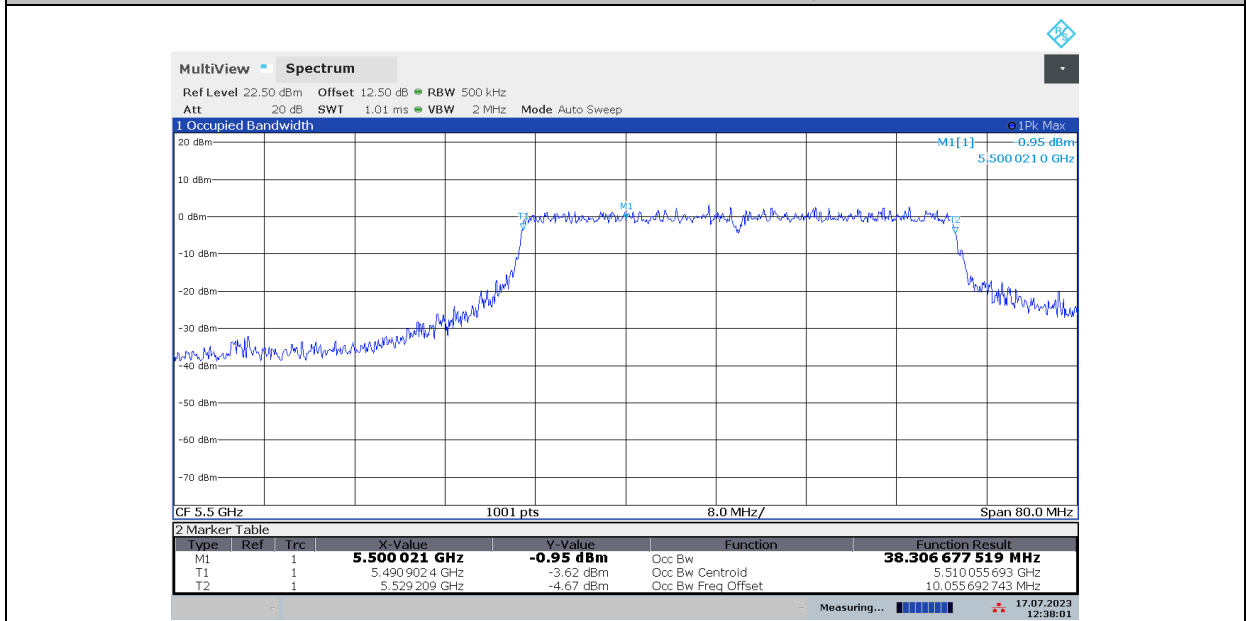
11BE160MIMO\_Ant10\_5570\_Puncturing 20M\_8



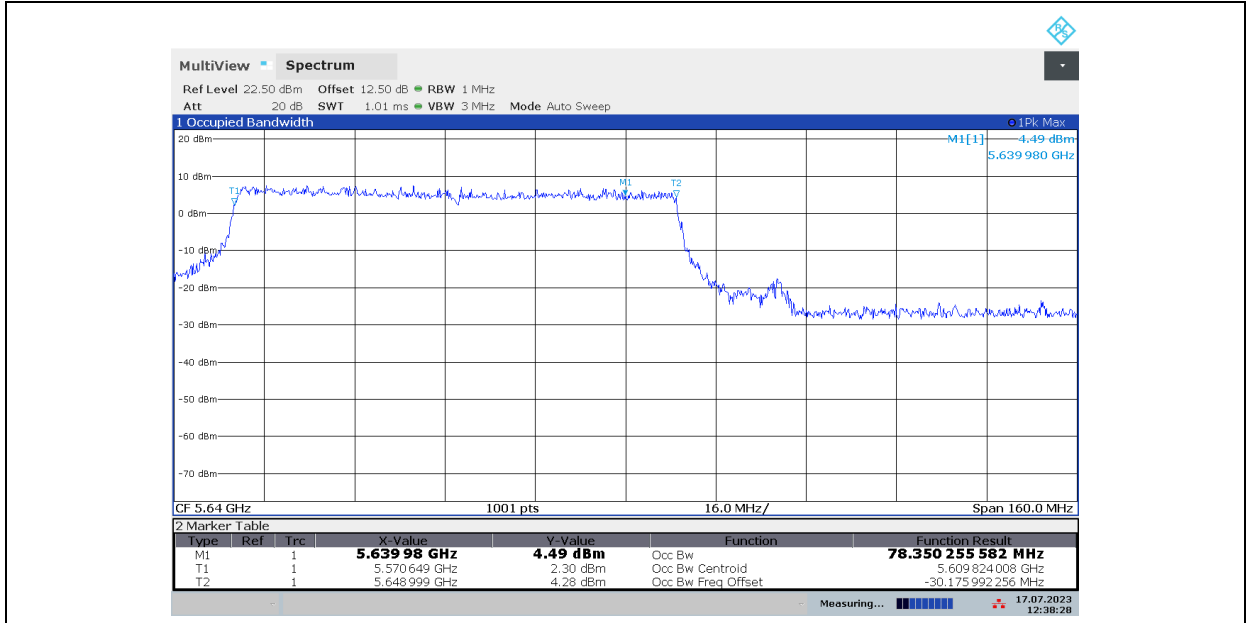
11BE160MIMO\_Ant10\_5570\_Puncturing 40M\_1



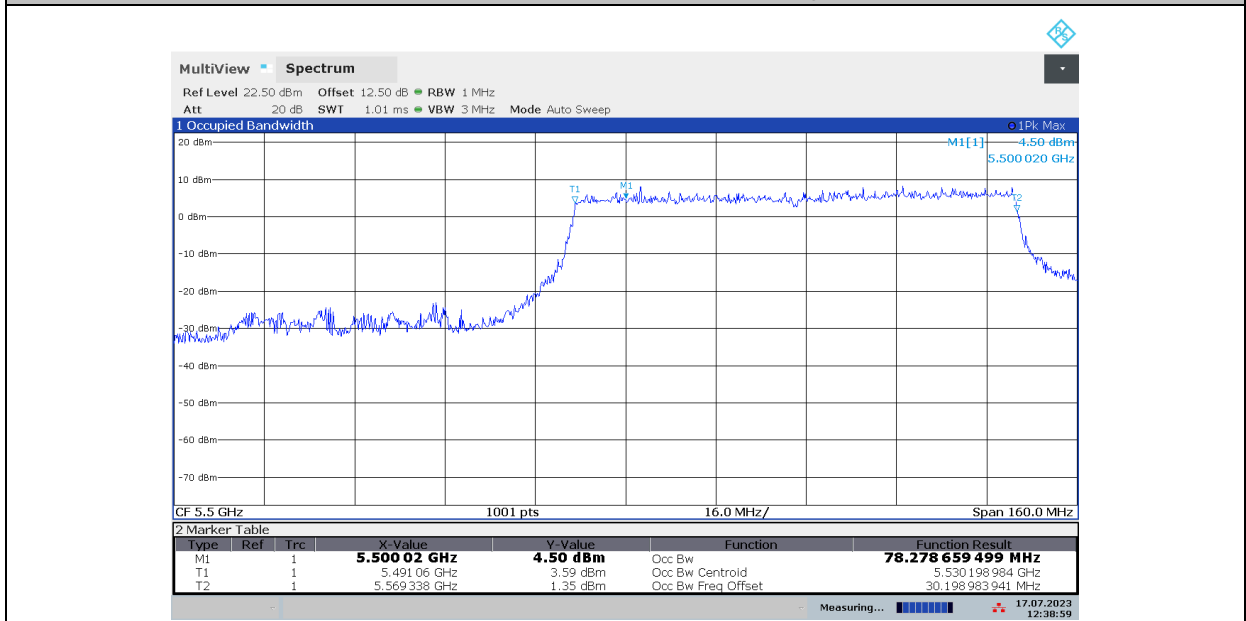
11BE160MIMO\_Ant10\_5570\_Puncturing 40M\_2



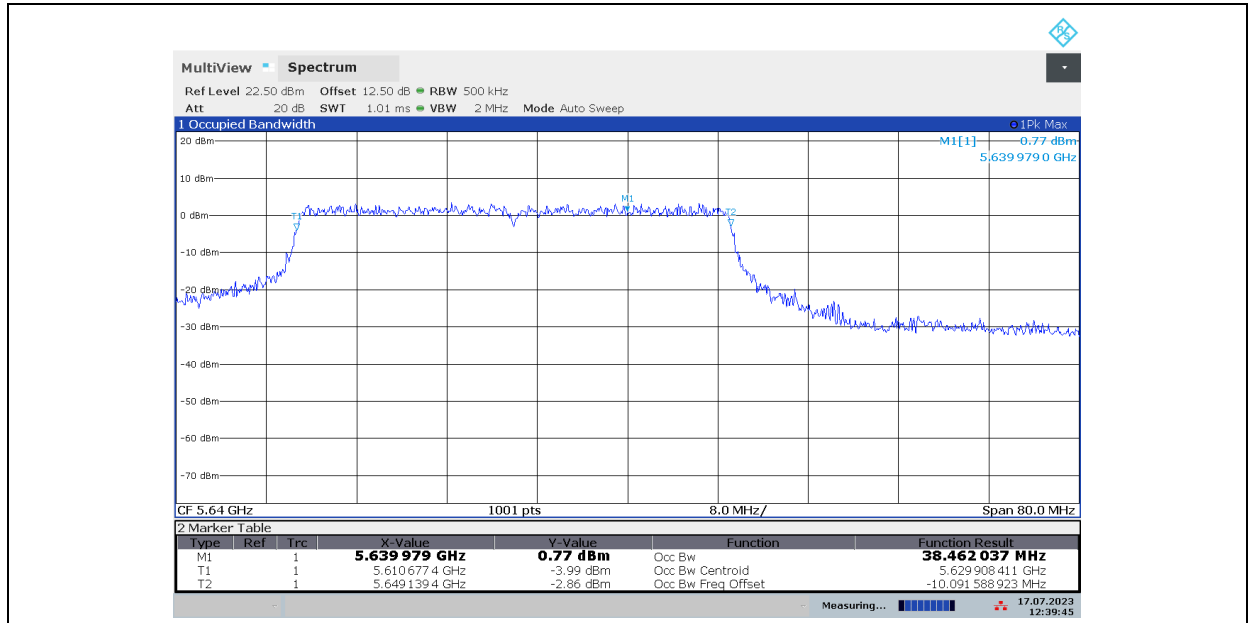
11BE160MIMO\_Ant10\_5570\_Puncturing 40M\_2



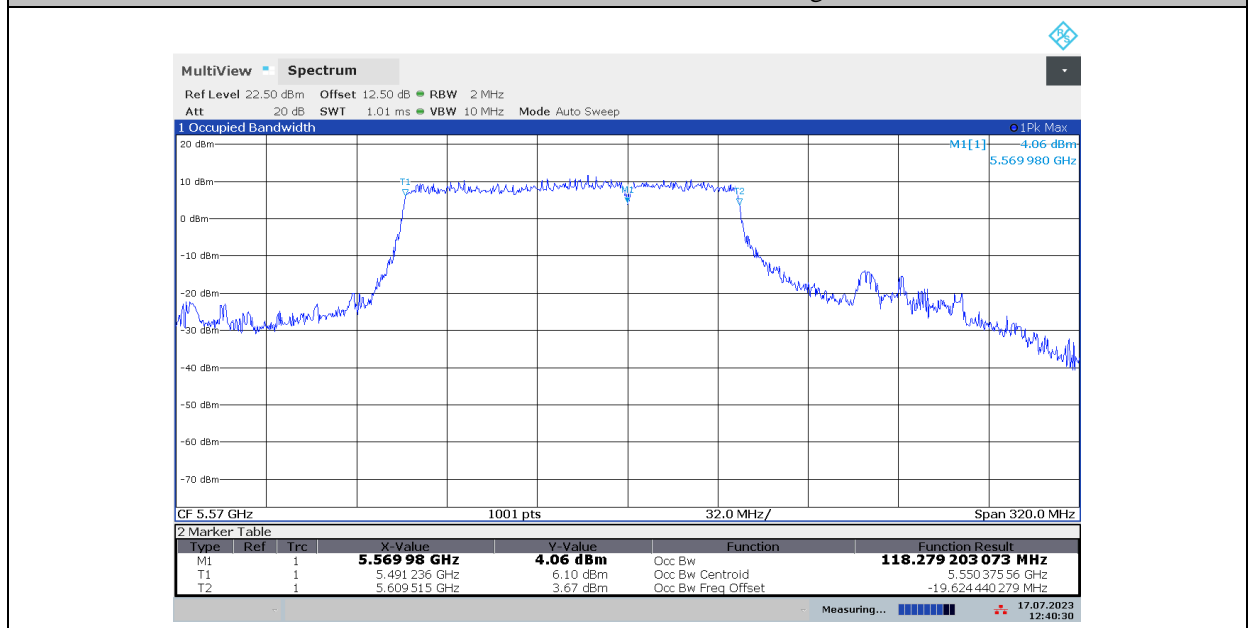
11BE160MIMO\_Ant10\_5570\_Puncturing 40M\_3



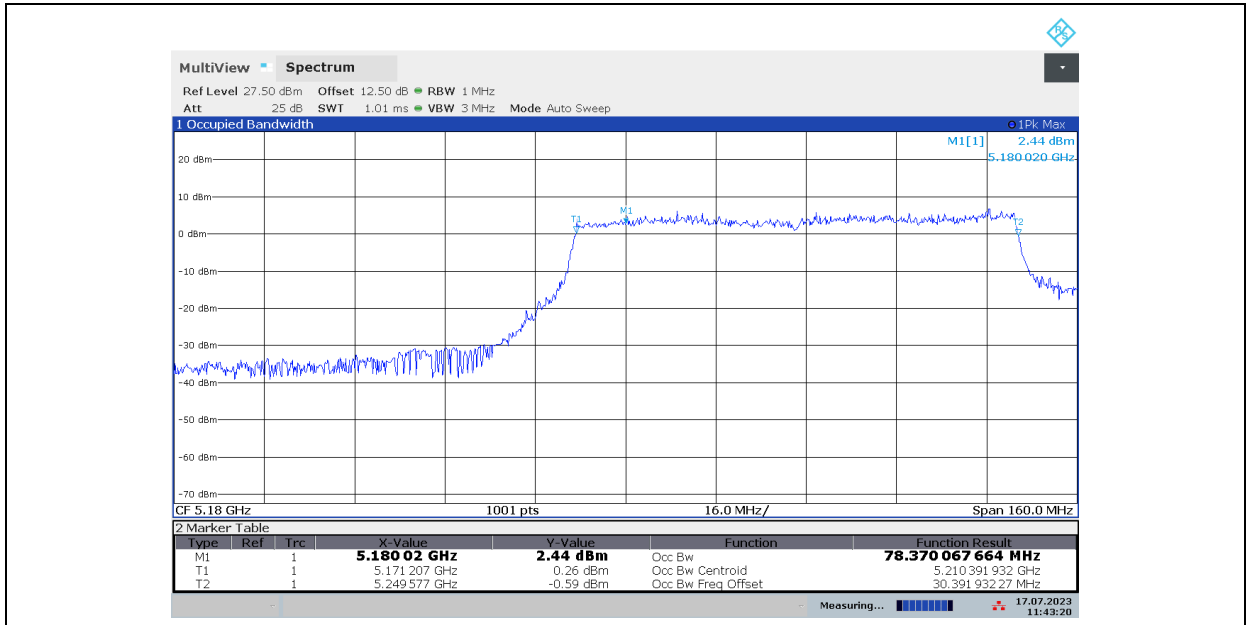
11BE160MIMO\_Ant10\_5570\_Puncturing 40M\_3



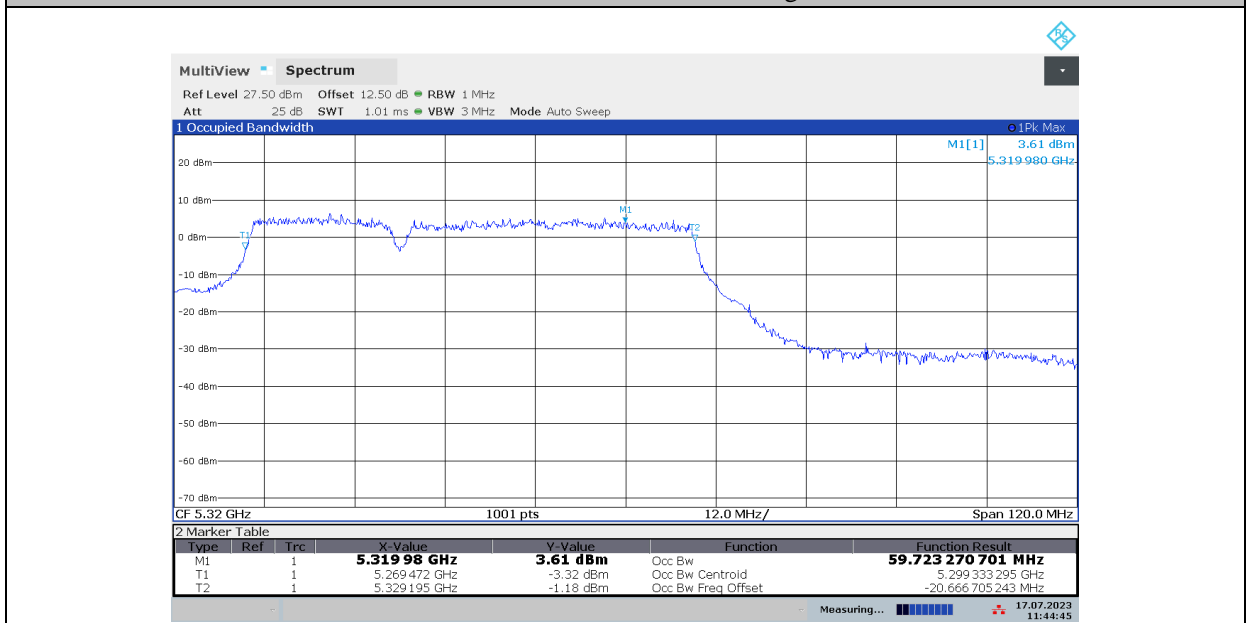
11BE160MIMO\_Ant10\_5570\_Puncturing 40M\_4



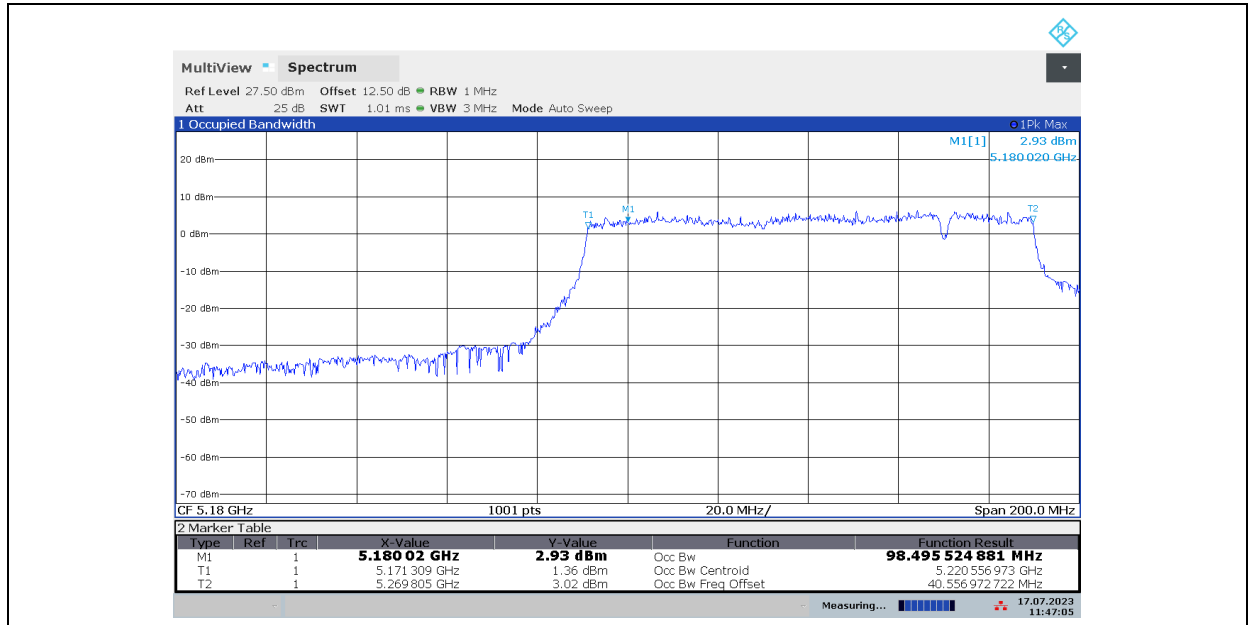
11BE160MIMO\_Ant7\_5250\_Puncturing 20M\_5



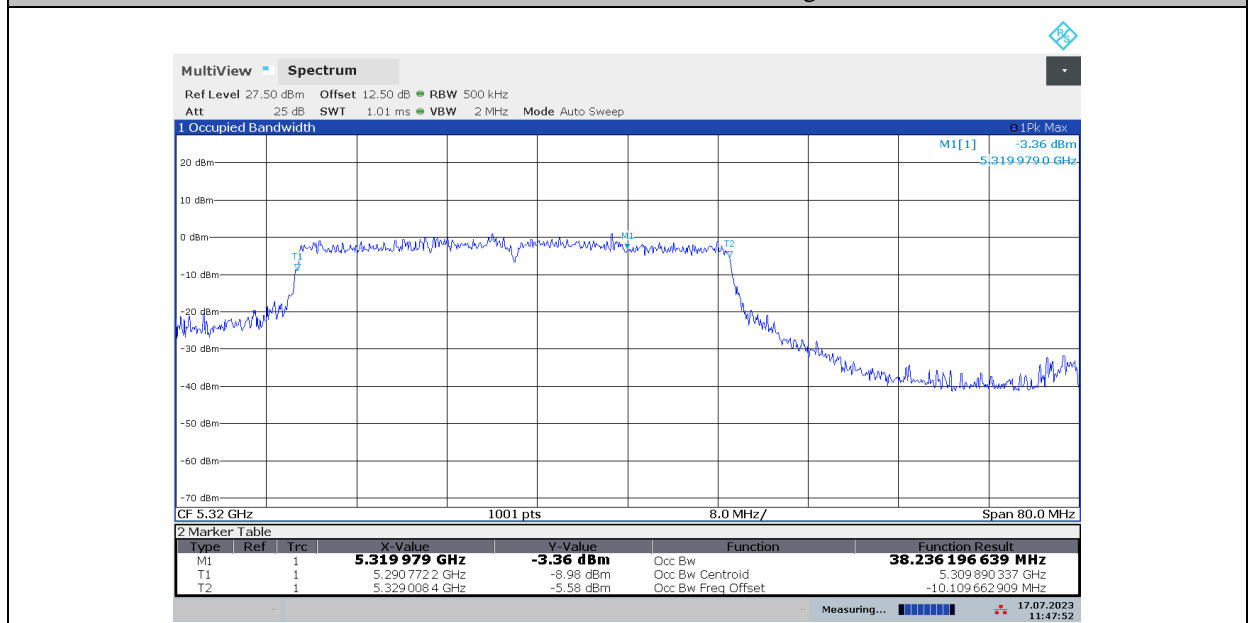
11BE160MIMO\_Ant7\_5250\_Puncturing 20M\_5



11BE160MIMO\_Ant7\_5250\_Puncturing 20M\_6

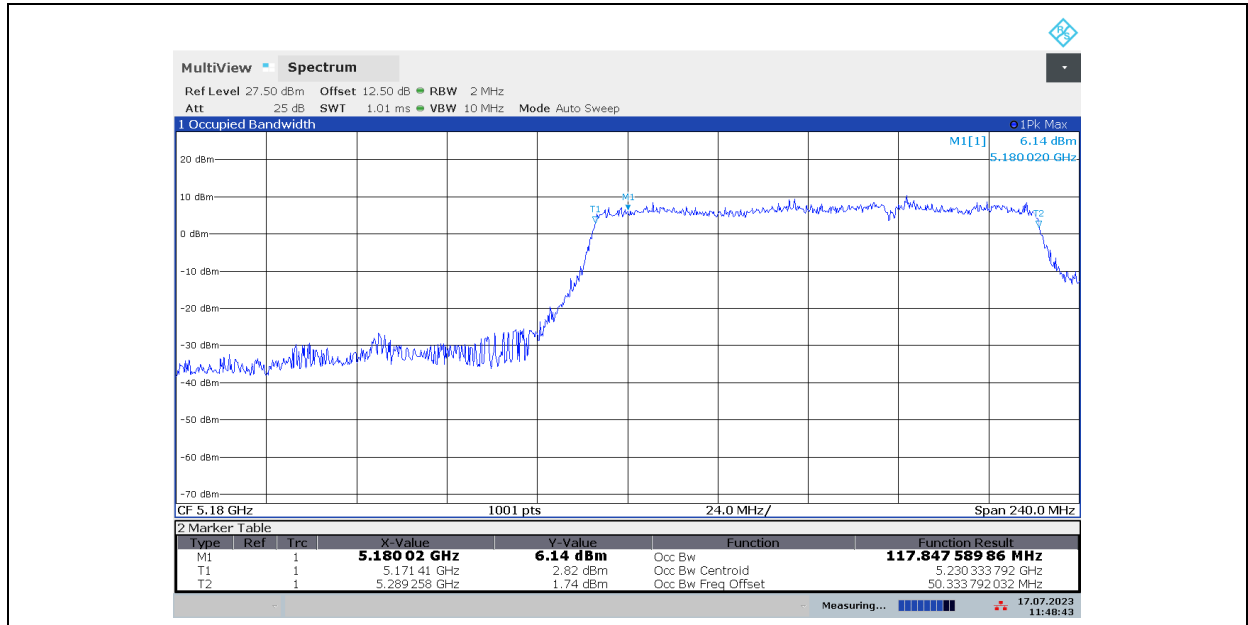


11BE160MIMO\_Ant7\_5250\_Puncturing 20M\_6

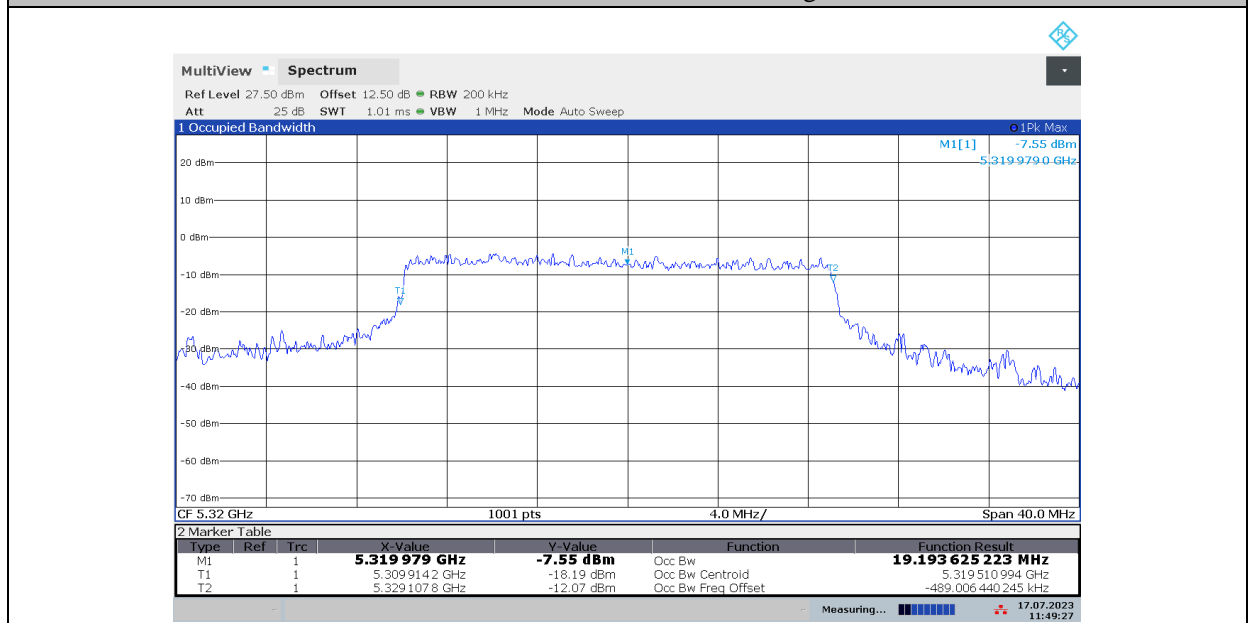


11BE160MIMO\_Ant7\_5250\_Puncturing 20M\_7

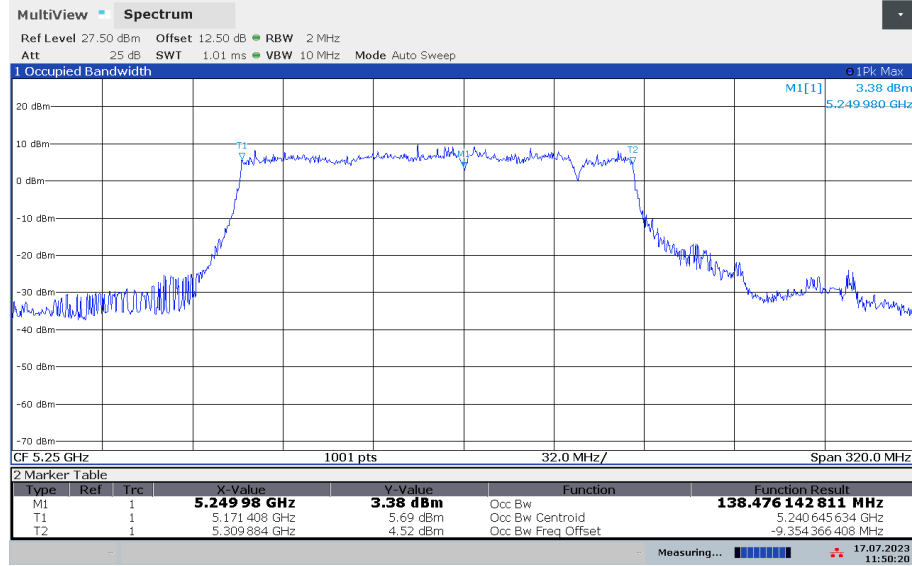




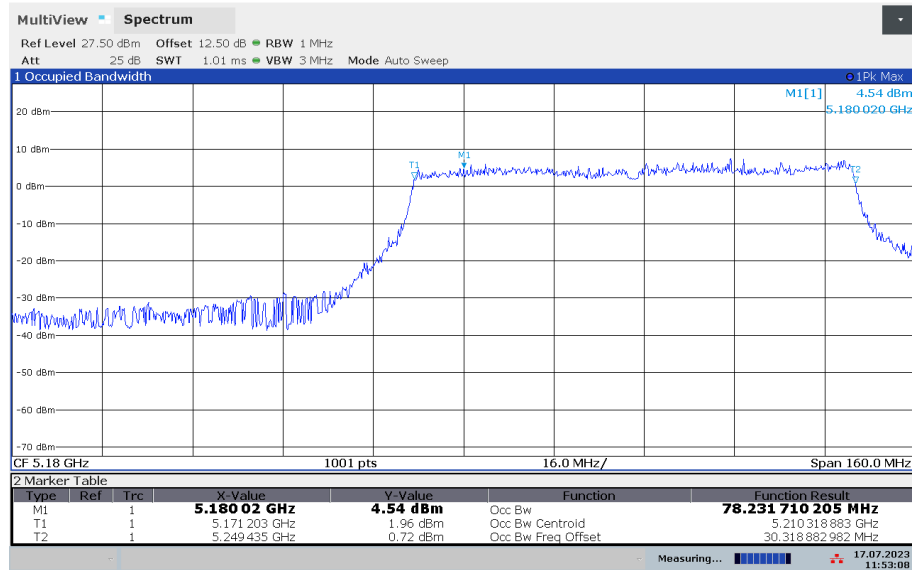
11BE160MIMO\_Ant7\_5250\_Puncturing 20M\_7



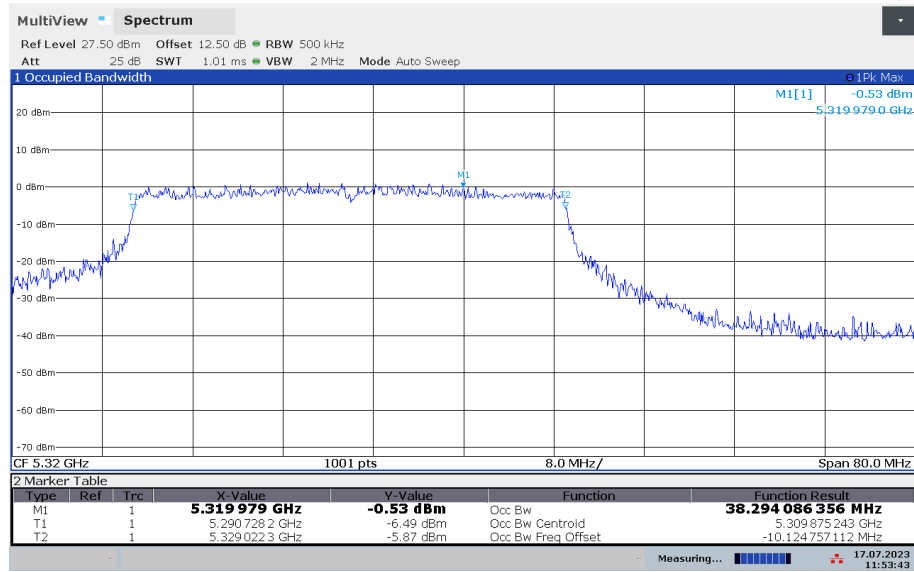
11BE160MIMO\_Ant7\_5250\_Puncturing 20M\_8



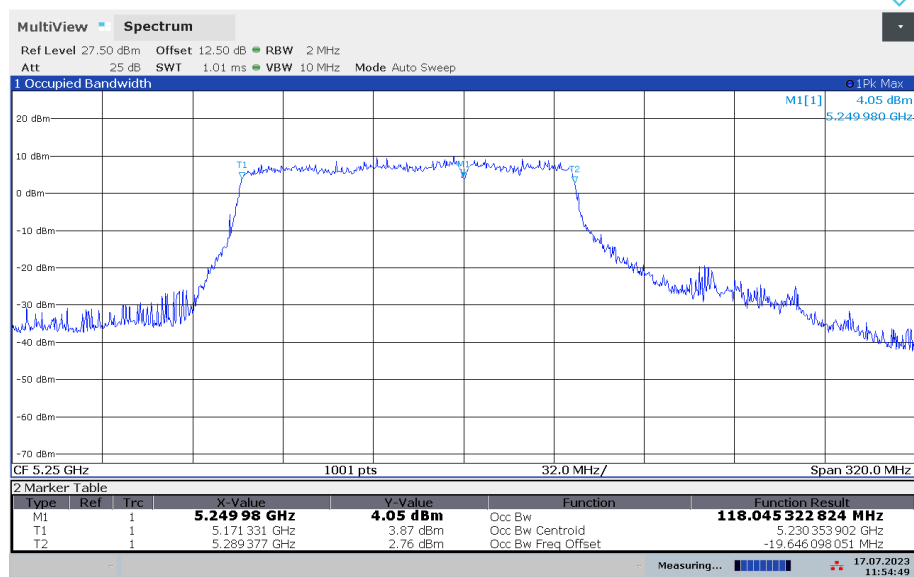
11BE160MIMO\_Ant7\_5250\_Puncturing 40M\_3



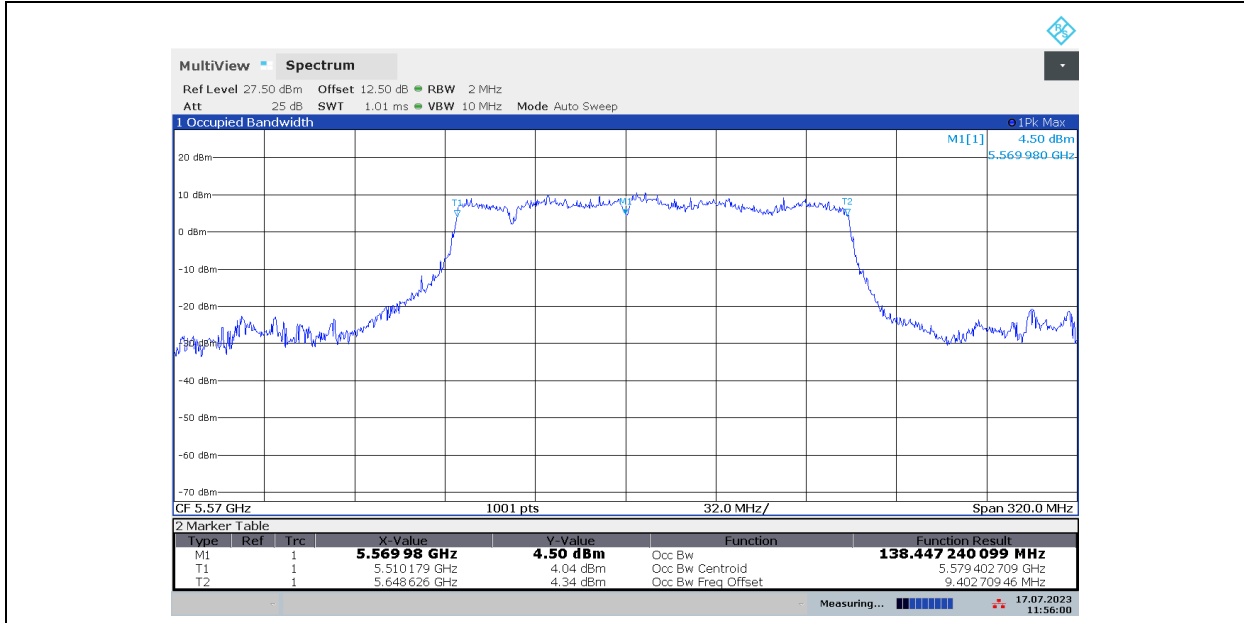
11BE160MIMO\_Ant7\_5250\_Puncturing 40M\_3



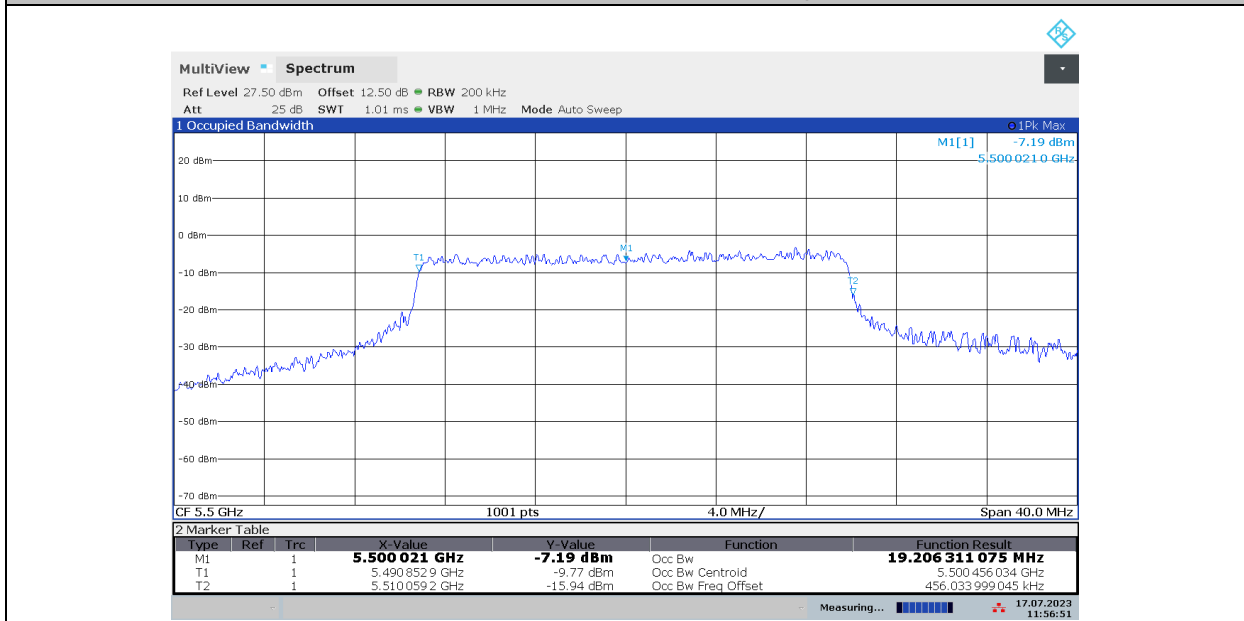
11BE160MIMO\_Ant7\_5250\_Puncturing 40M\_4



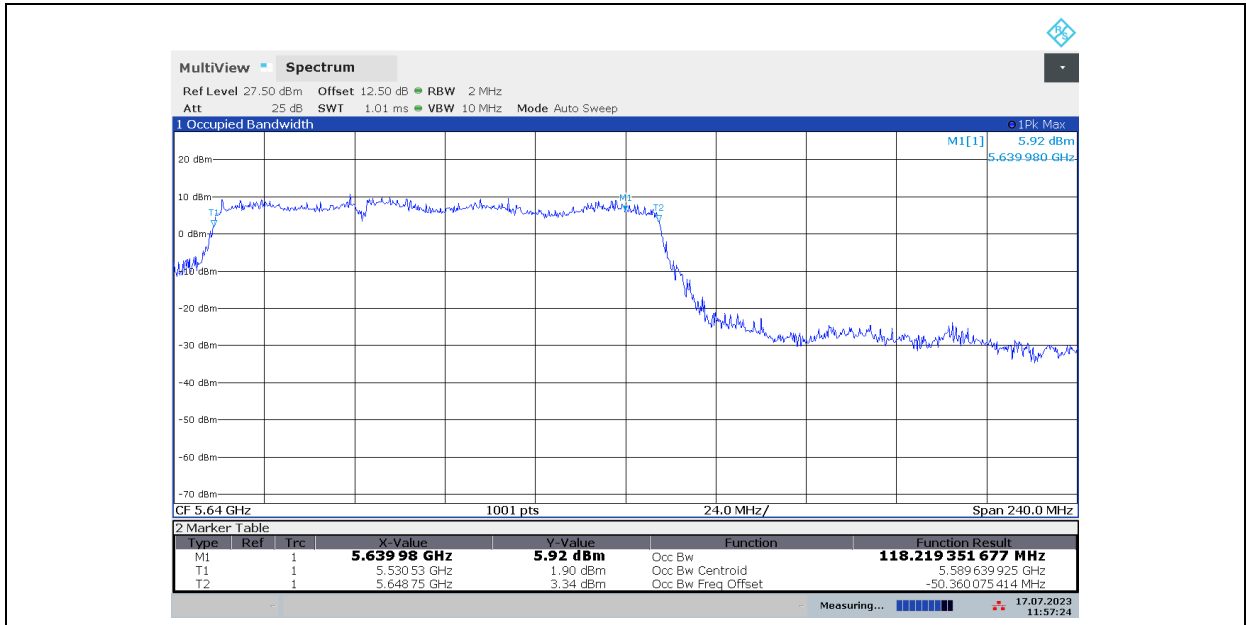
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_1



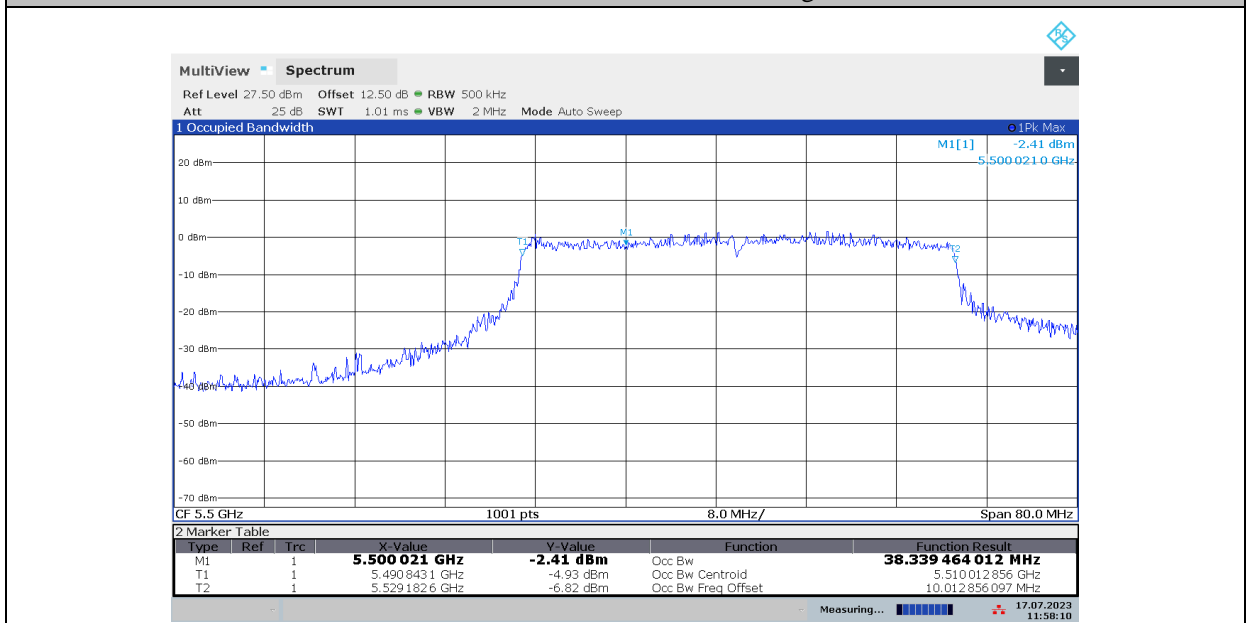
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_2



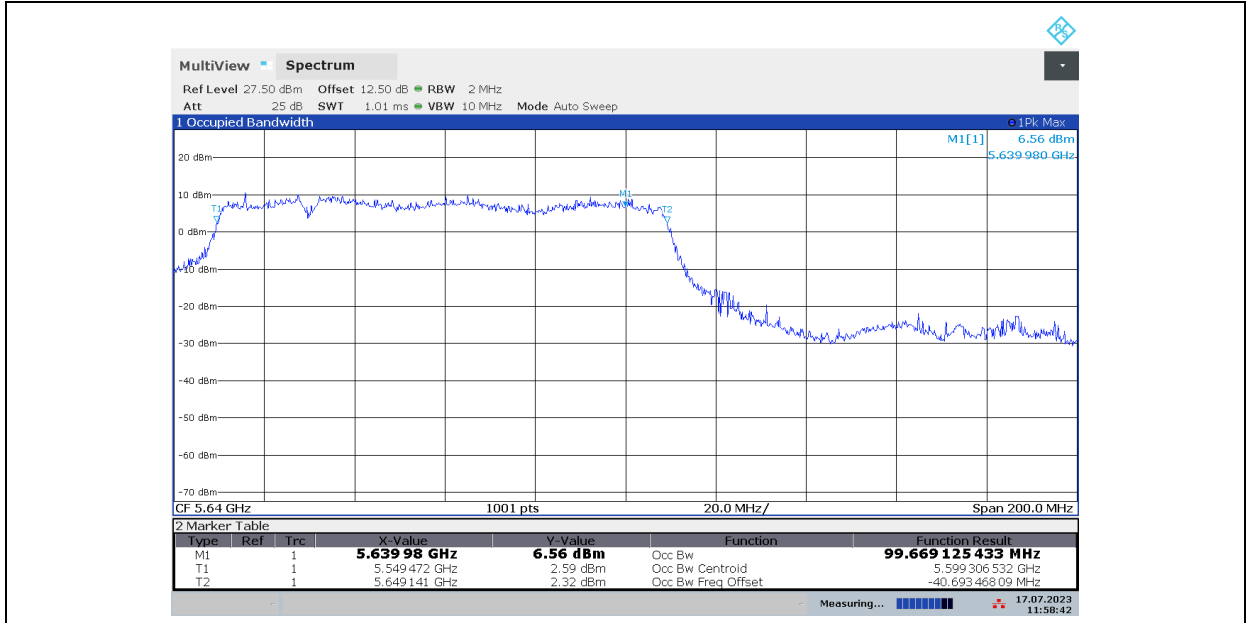
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_2



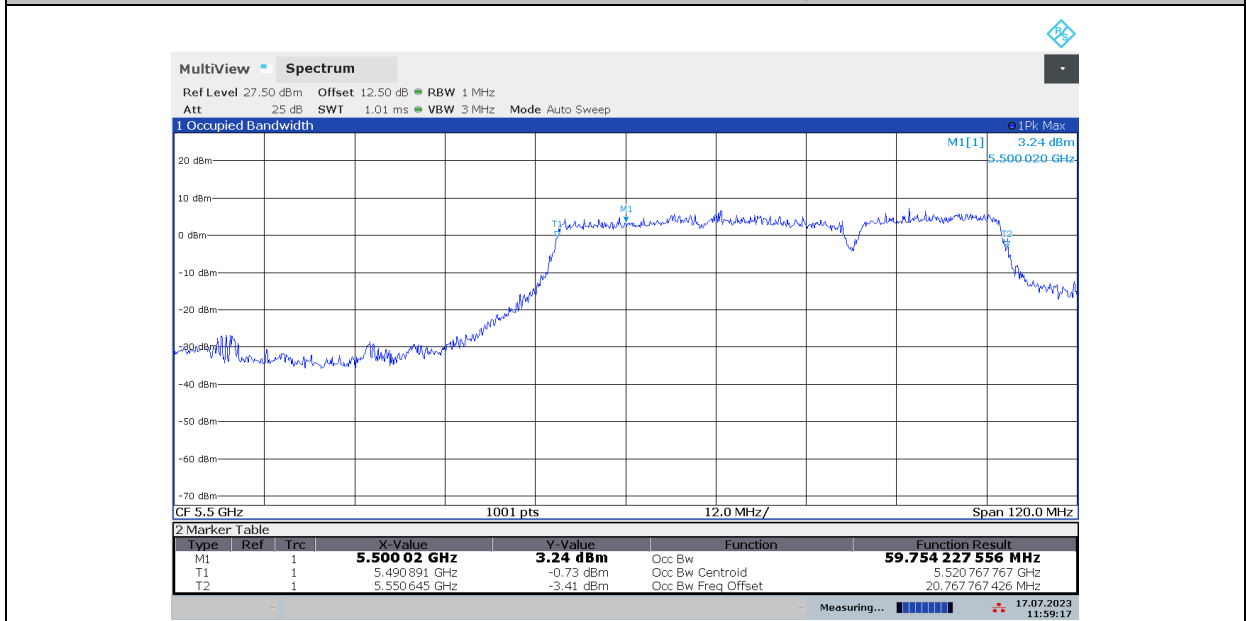
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_3



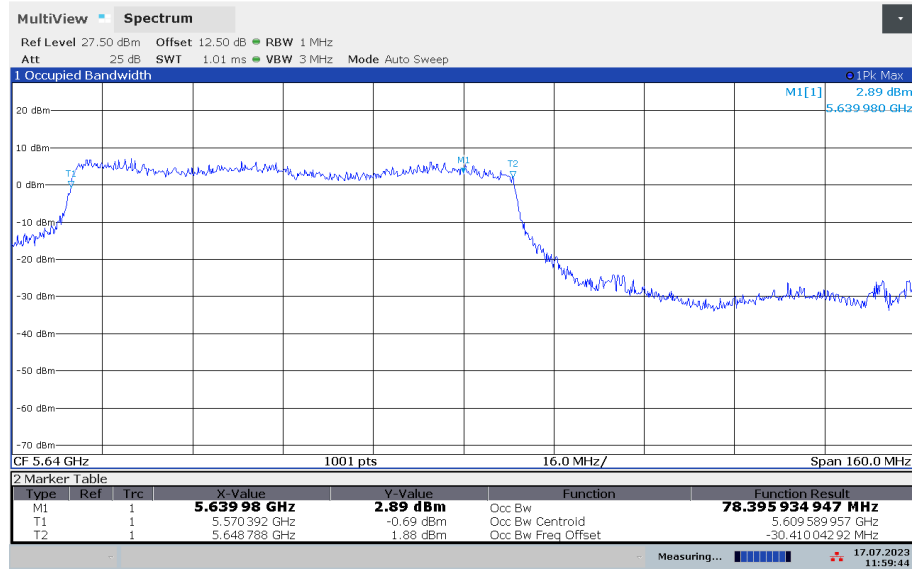
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_3



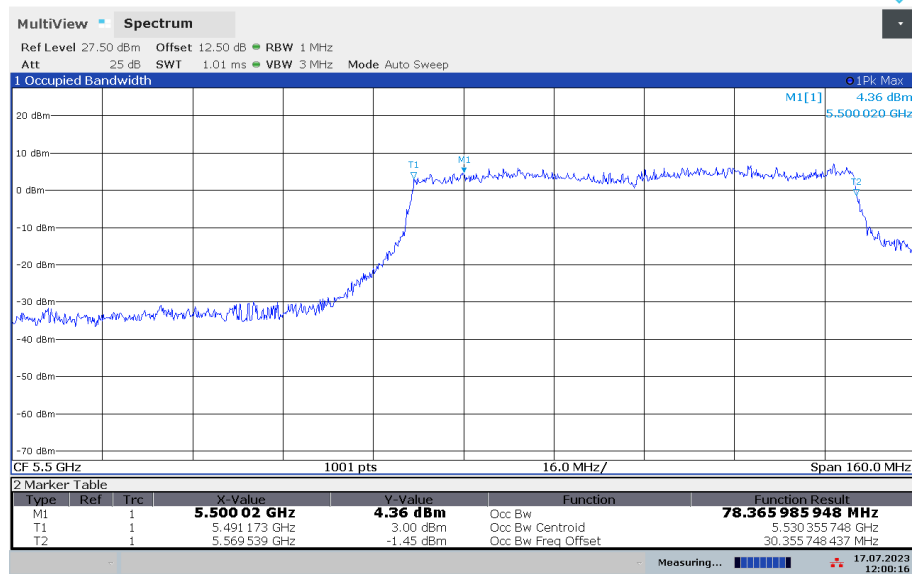
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_4



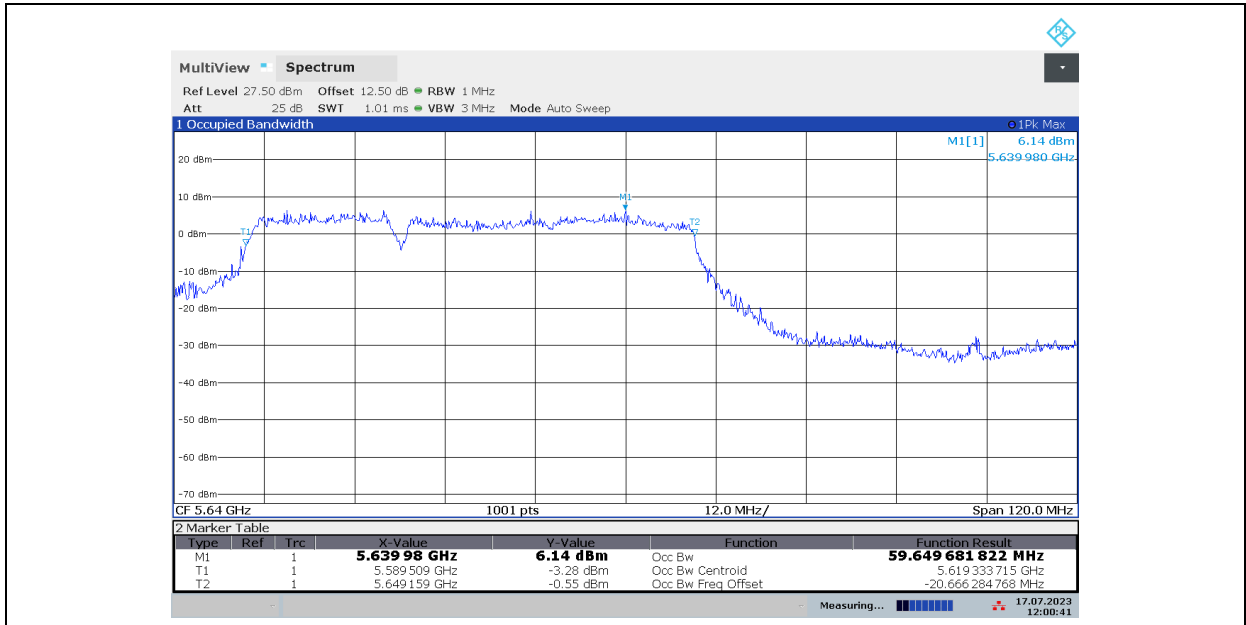
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_4



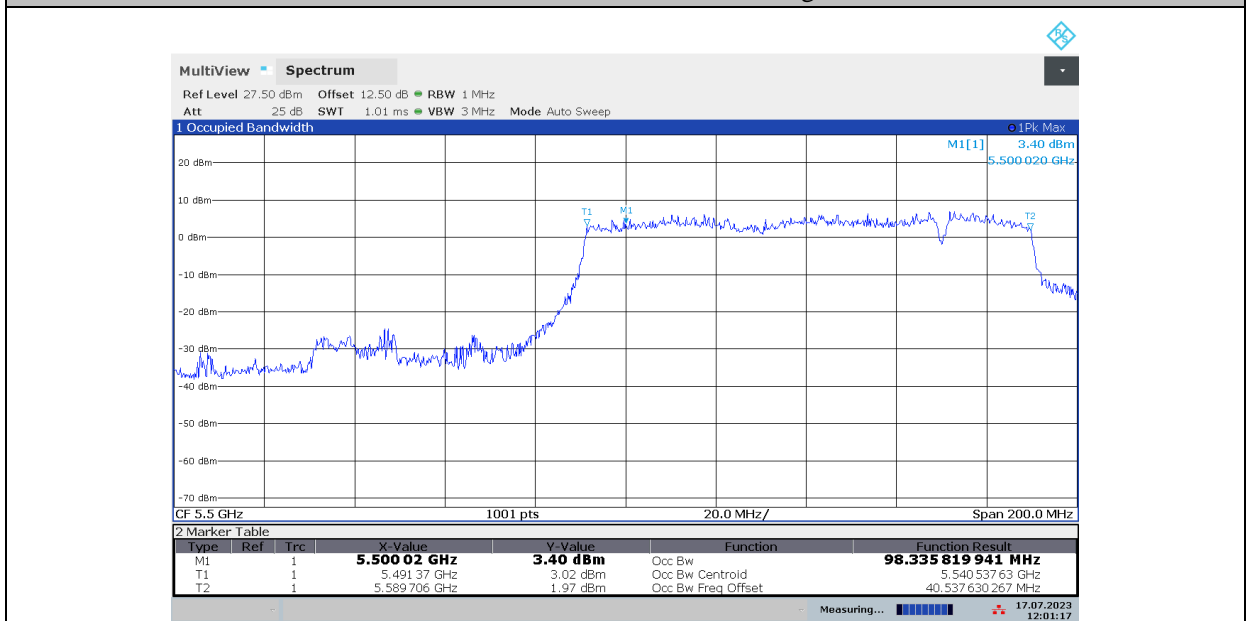
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_5



11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_5

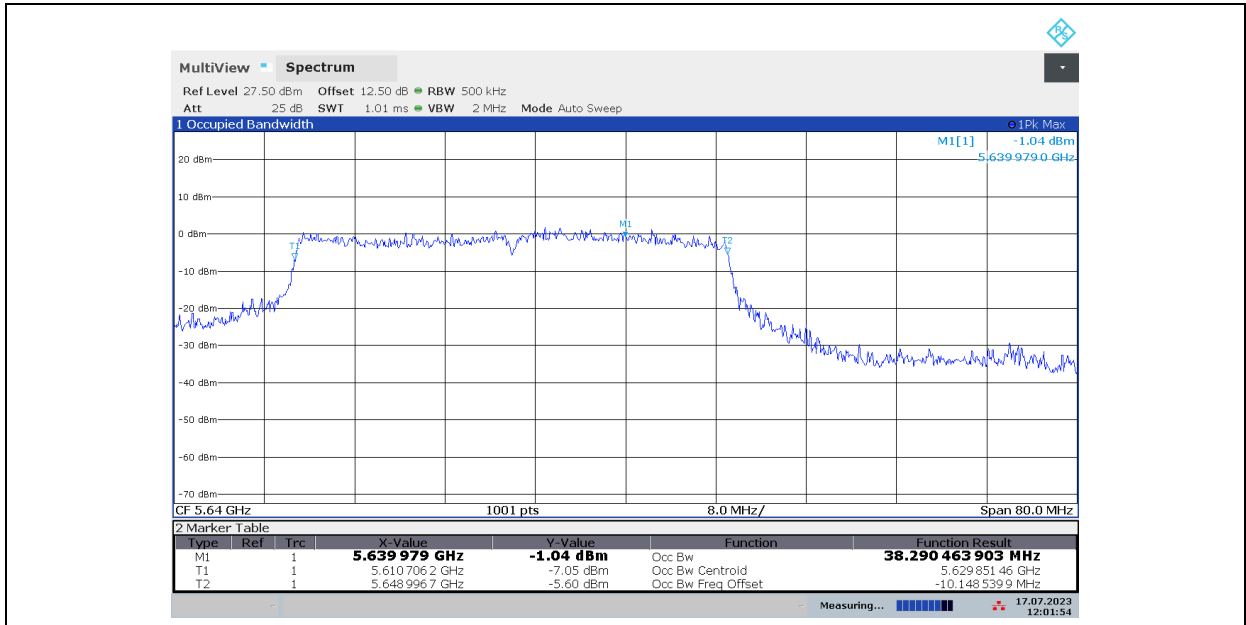


11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_6

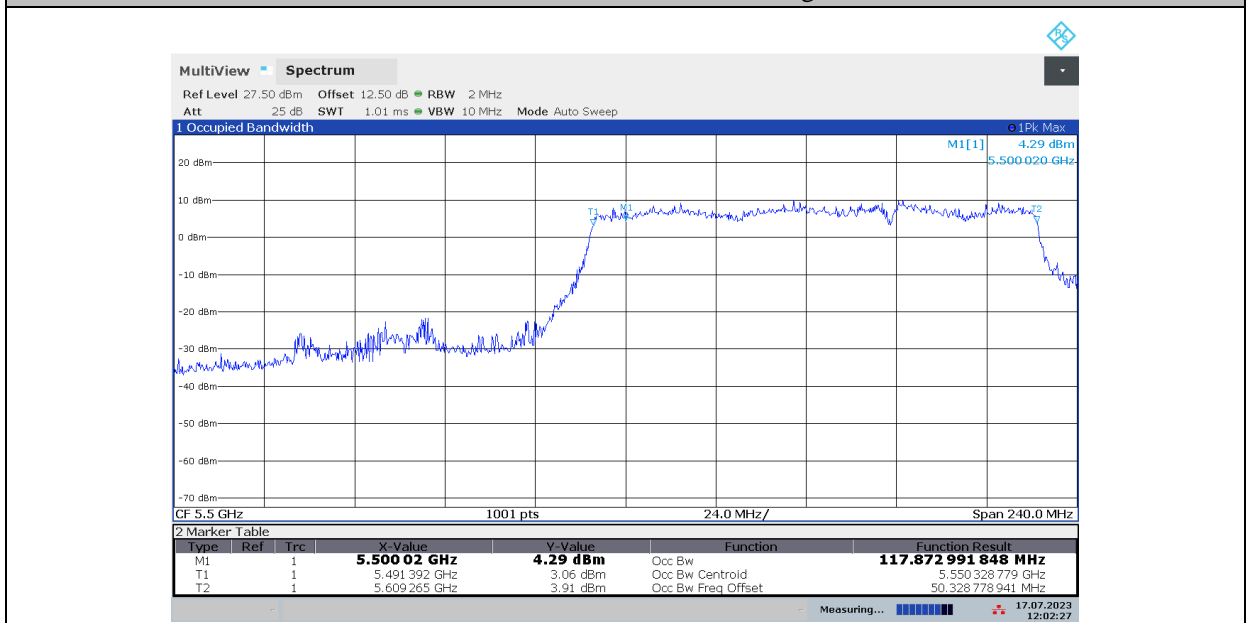


11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_6

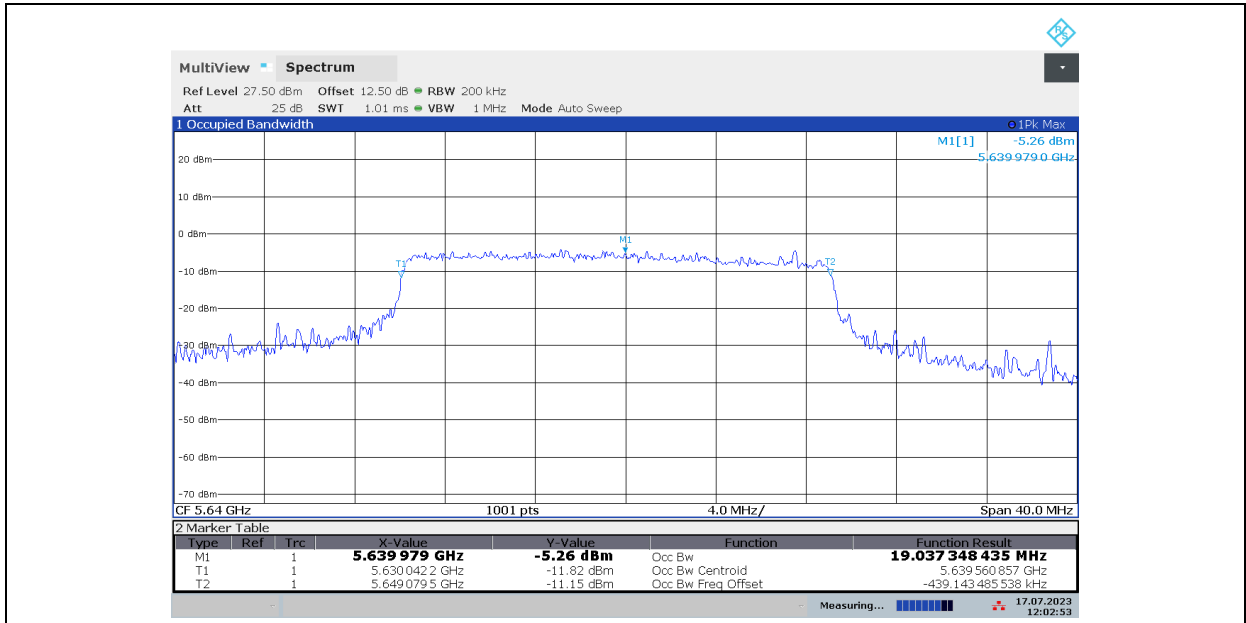




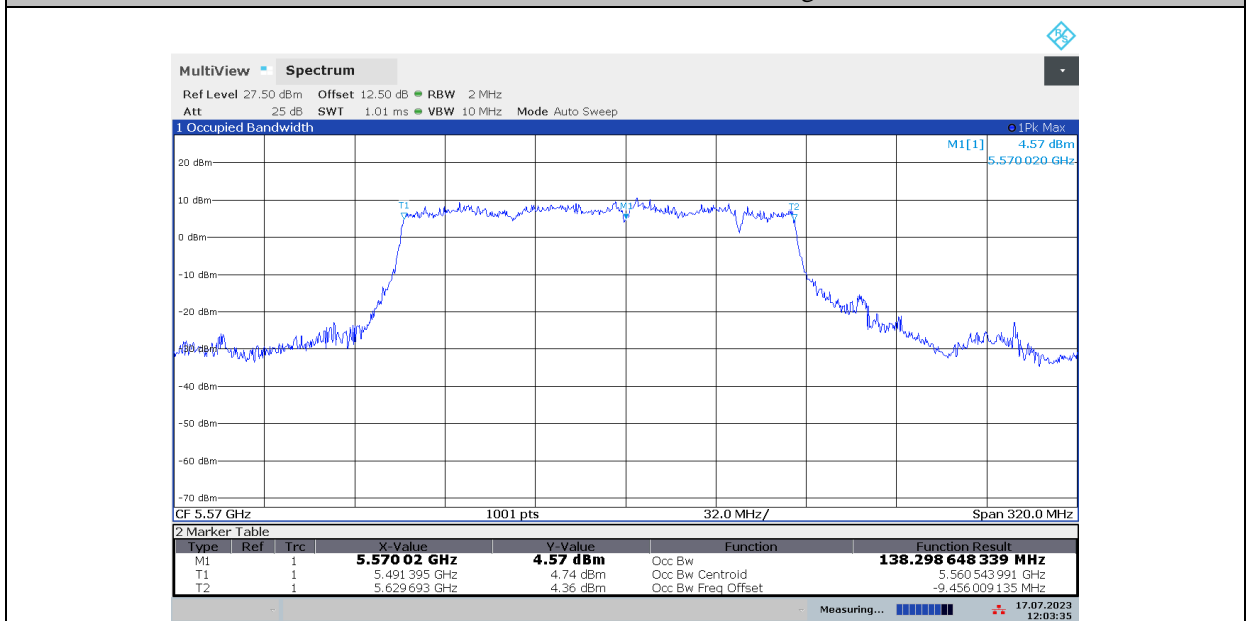
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_7



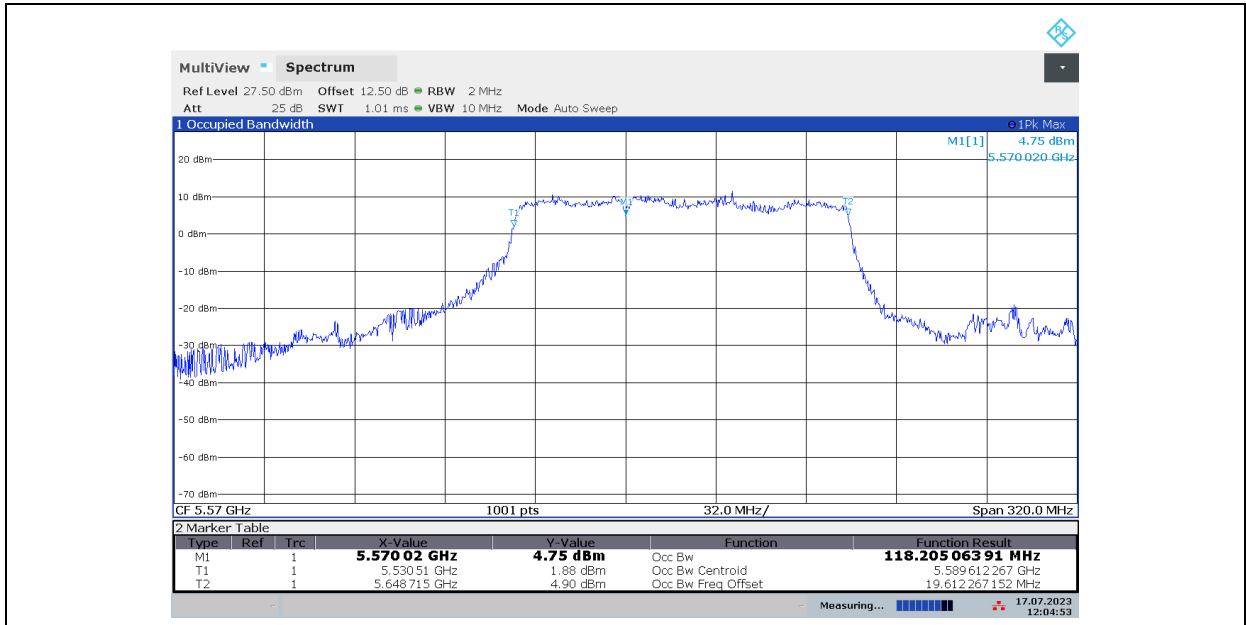
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_7



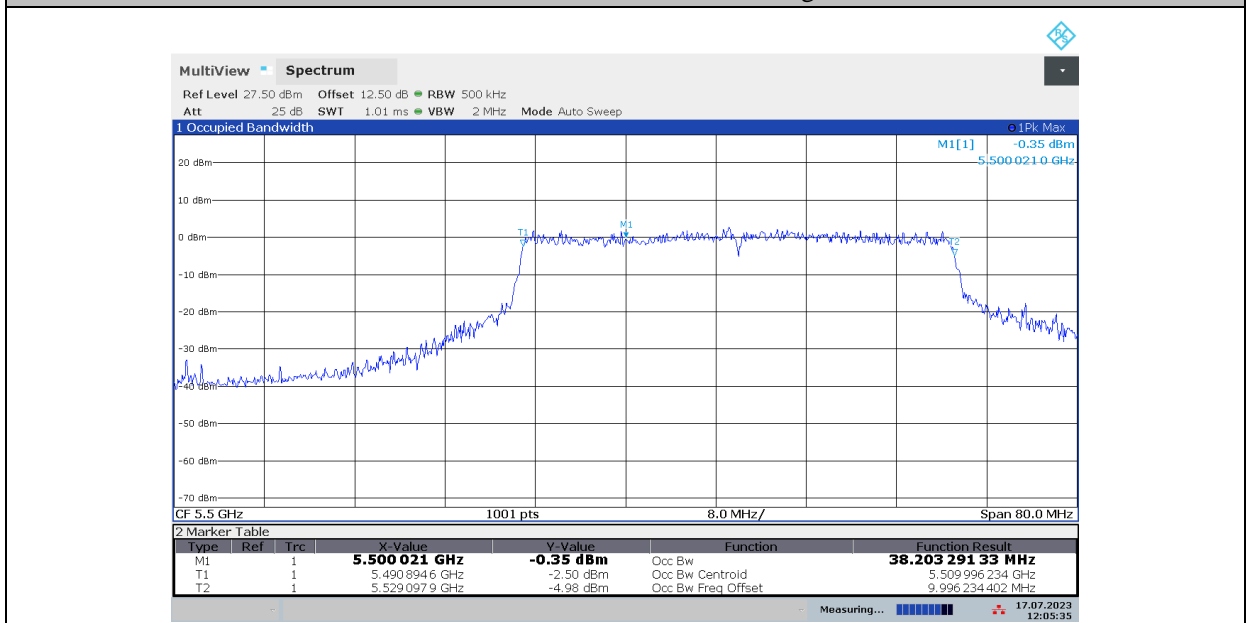
11BE160MIMO\_Ant7\_5570\_Puncturing 20M\_8



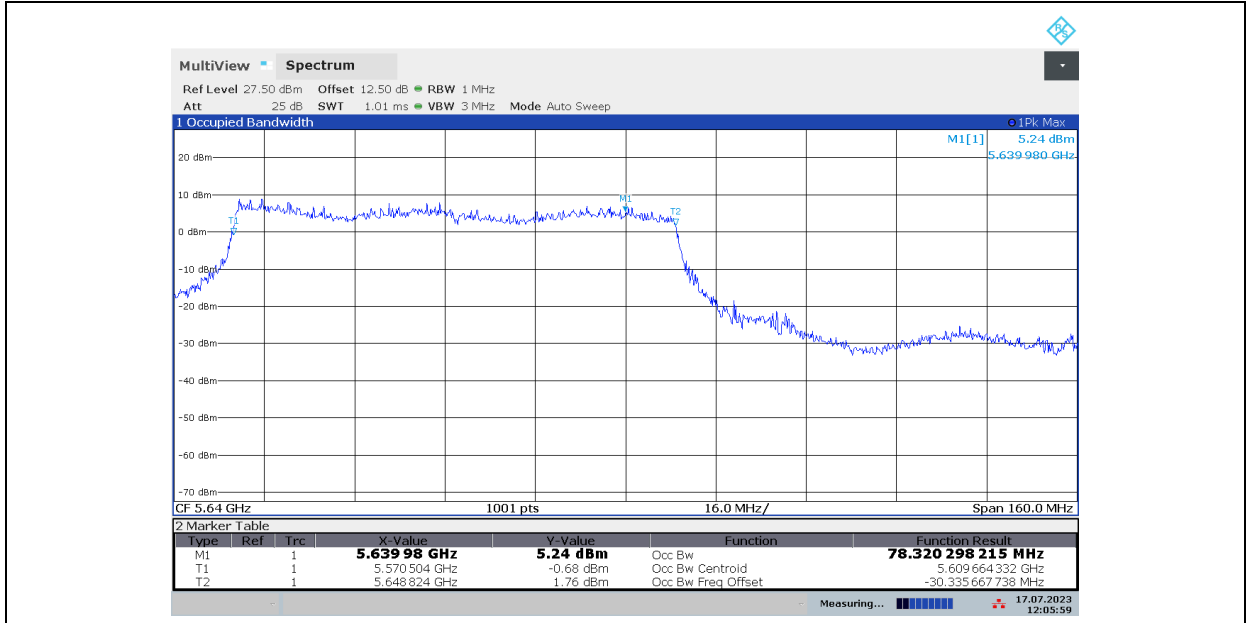
11BE160MIMO\_Ant7\_5570\_Puncturing 40M\_1



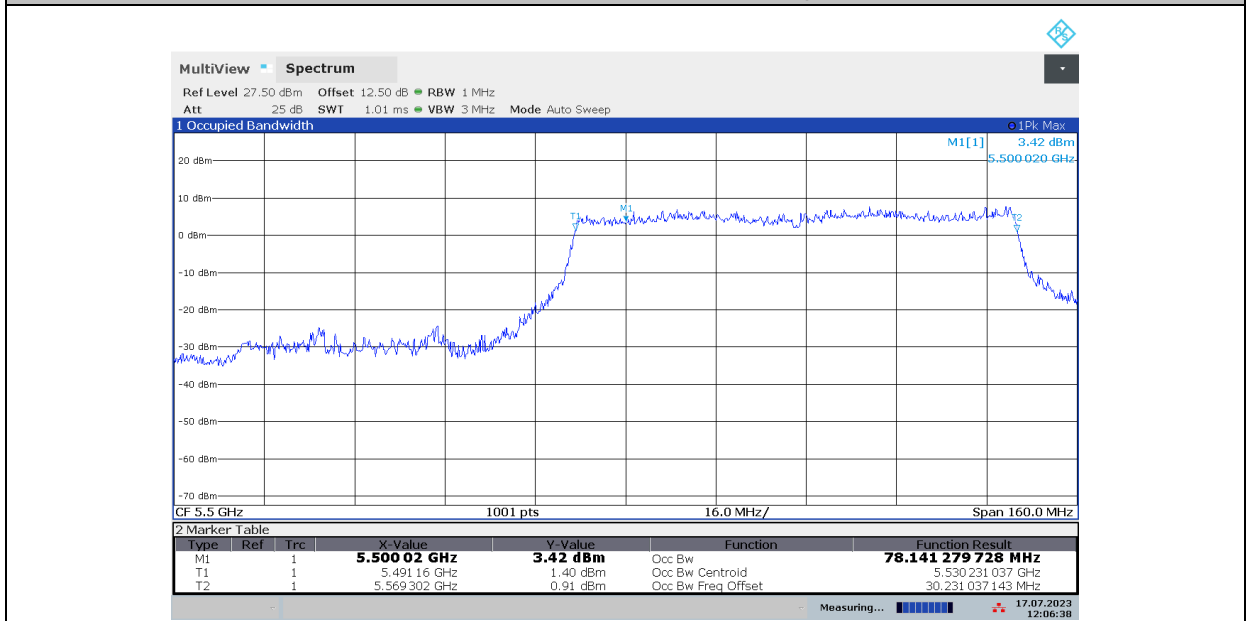
11BE160MIMO\_Ant7\_5570\_Puncturing 40M\_2



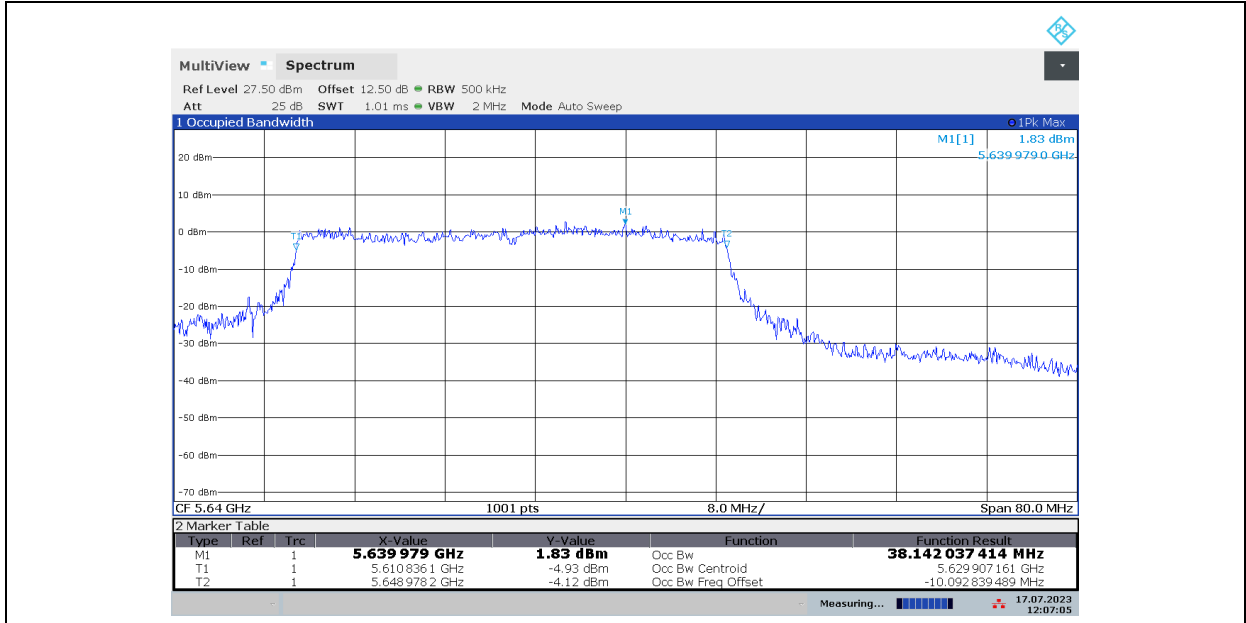
11BE160MIMO\_Ant7\_5570\_Puncturing 40M\_2



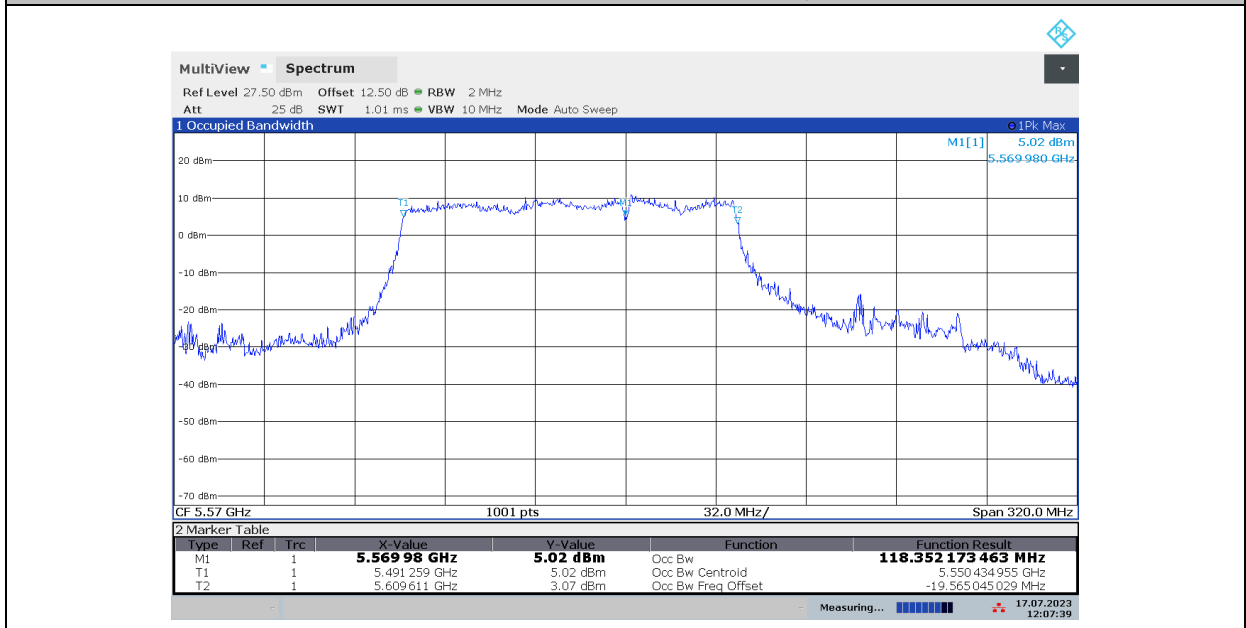
11BE160MIMO\_Ant7\_5570\_Puncturing 40M\_3



11BE160MIMO\_Ant7\_5570\_Puncturing 40M\_3



11BE160MIMO\_Ant7\_5570\_Puncturing 40M\_4



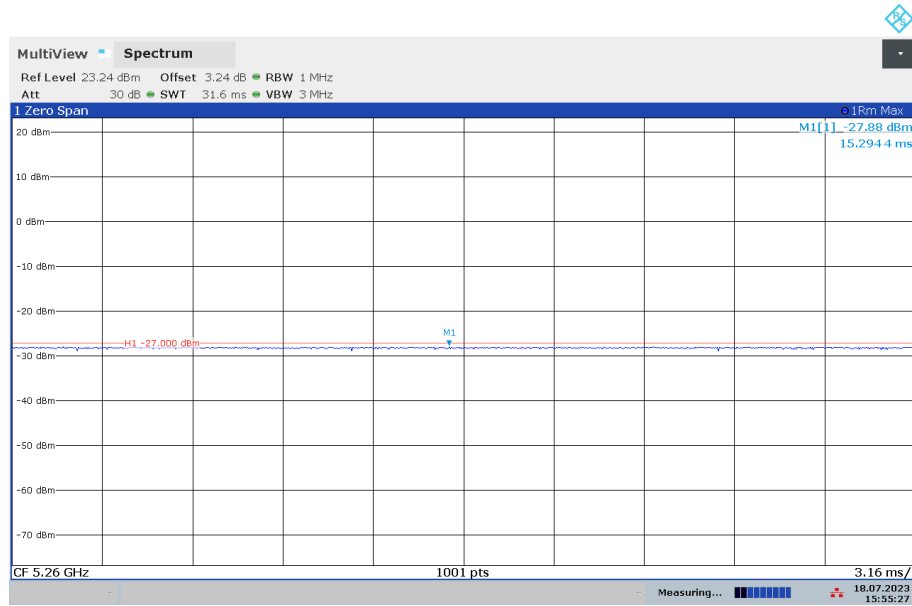
#### A.4.2 Punctured Channel E.I.R.P Check

Check the punctured regions meet -27 dBm/MHz EIRP AVG.

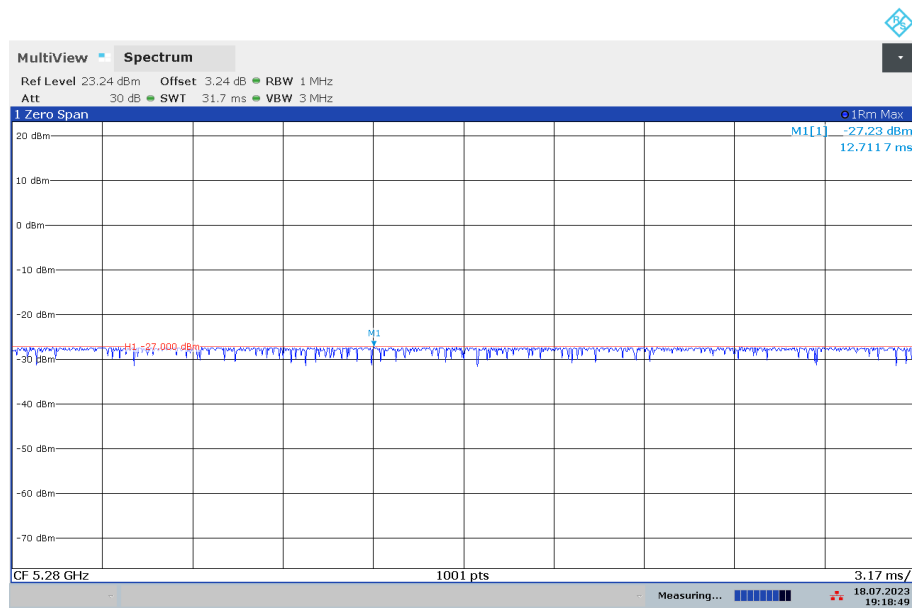
Mode	TX Fre	Puncturing	SA Freq	antenna	Result (dBm)	Limit (dBm)
11BE160 MIMO	5250	Puncturing20-configure-5	5260	7	-28.41	-27
			5260	10	-27.88	-27
		Puncturing20-configure-6	5280	7	-28.33	-27
			5280	10	-27.23	-27
		Puncturing20-configure-7	5300	7	-28.68	-27
Puncturing20-configure-7	5300	10	-27.84	-27		
Puncturing20-configure-7	5320	7	-36.00	-27		

		configure-8	5320	10	-33.02	-27
		Puncturing40-configure-3	5270	7	-33.31	-27
			5270	10	-32.72	-27
		Puncturing40-configure-4	5310	7	-37.32	-27
			5310	10	-37.04	-27
	5570	Puncturing20-configure-1	5500	7	-31.10	-27
			5500	10	-31.66	-27
		Puncturing20-configure-2	5520	7	-27.14	-27
			5520	10	-27.66	-27
		Puncturing20-configure-3	5540	7	-27.09	-27
			5540	10	-27.51	-27
		Puncturing20-configure-4	5560	7	-29.34	-27
			5560	10	-30.98	-27
		Puncturing20-configure-5	5580	7	-27.49	-27
			5580	10	-27.35	-27
		Puncturing20-configure-6	5600	7	-27.81	-27
			5600	10	-28.99	-27
		Puncturing20-configure-7	5620	7	-28.93	-27
			5620	10	-29.98	-27
		Puncturing20-configure-8	5640	7	-33.76	-27
			5640	10	-35.29	-27
		Puncturing40-configure-1	5510	7	-36.35	-27
			5510	10	-34.68	-27
		Puncturing40-configure-2	5550	7	-34.13	-27
			5550	10	-33.22	-27
		Puncturing40-configure-3	5590	7	-31.43	-27
			5590	10	-29.31	-27
		Puncturing40-configure-4	5630	7	-35.59	-27
			5630	10	-34.61	-27

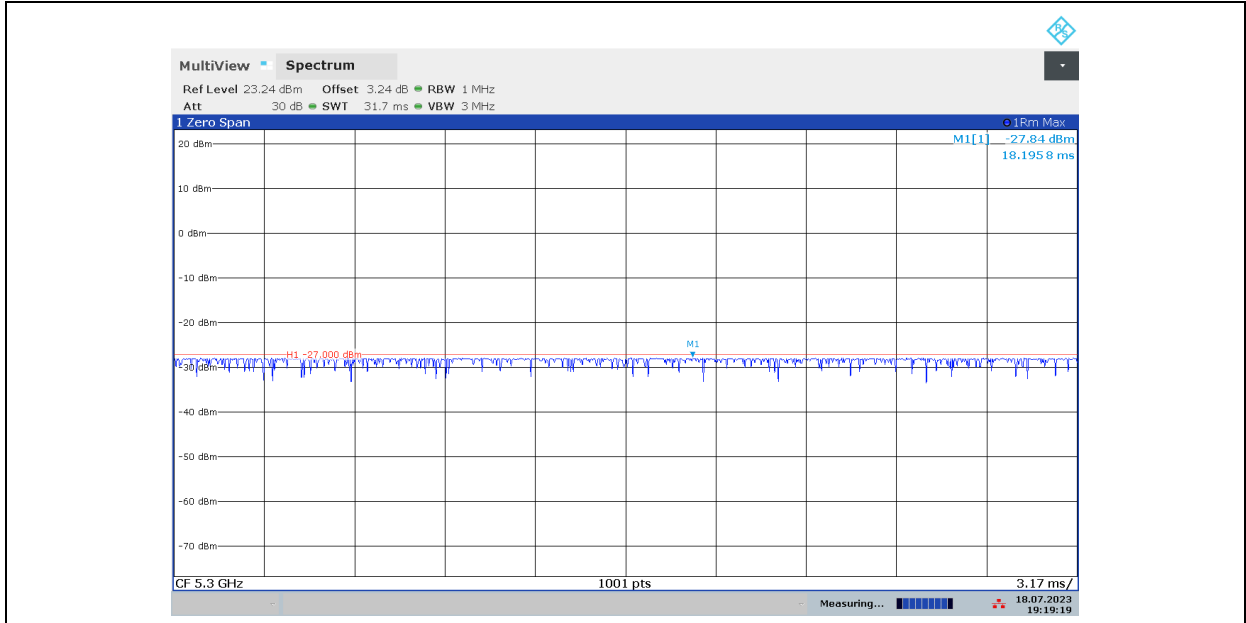
## 11BE160MIMO\_Ant10\_5250\_Puncturing20- configure-5



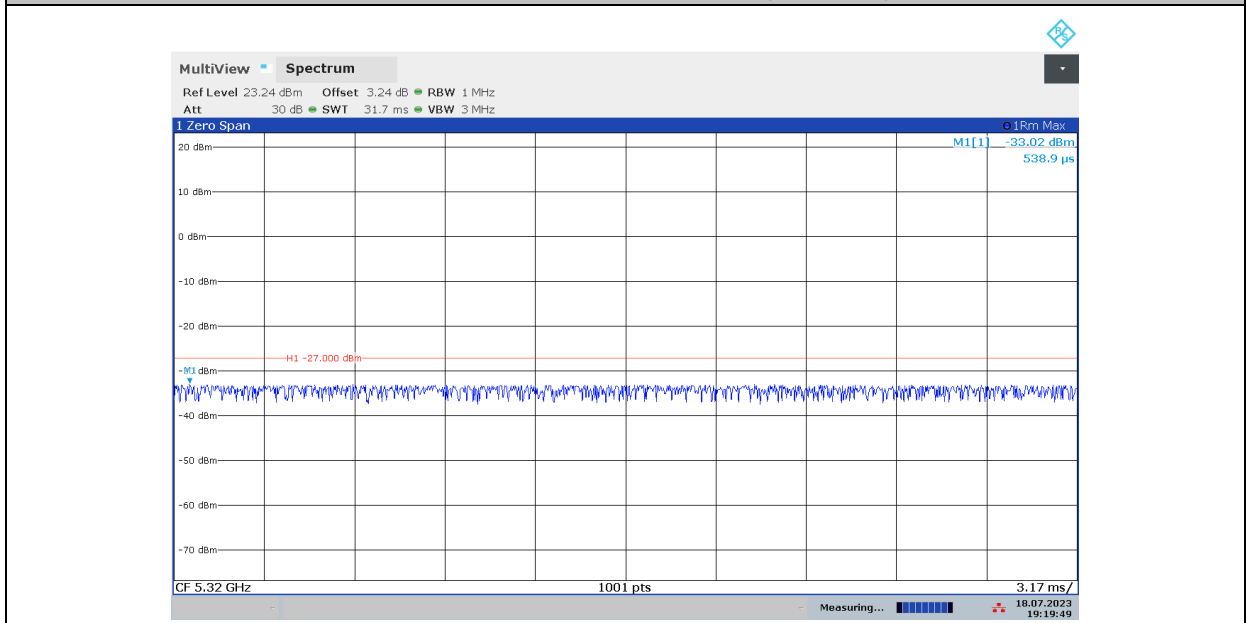
## 11BE160MIMO\_Ant10\_5250\_Puncturing20- configure-6



## 11BE160MIMO\_Ant10\_5250\_Puncturing20- configure-7

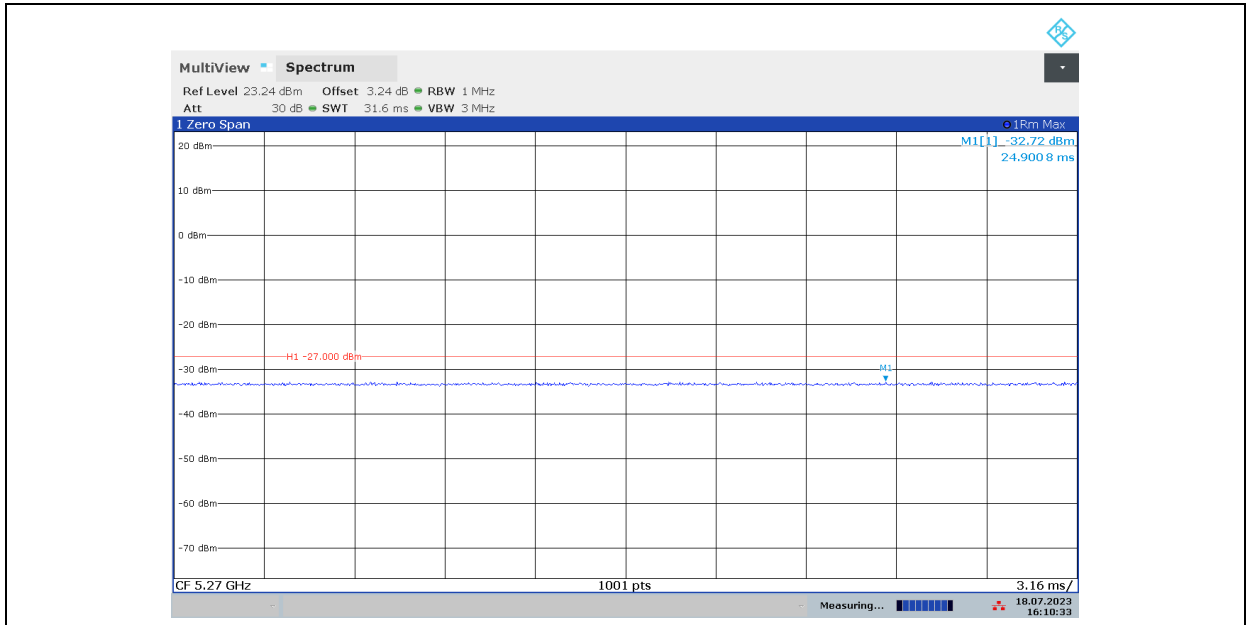


11BE160MIMO\_Ant10\_5250\_Puncturing20- configure-8

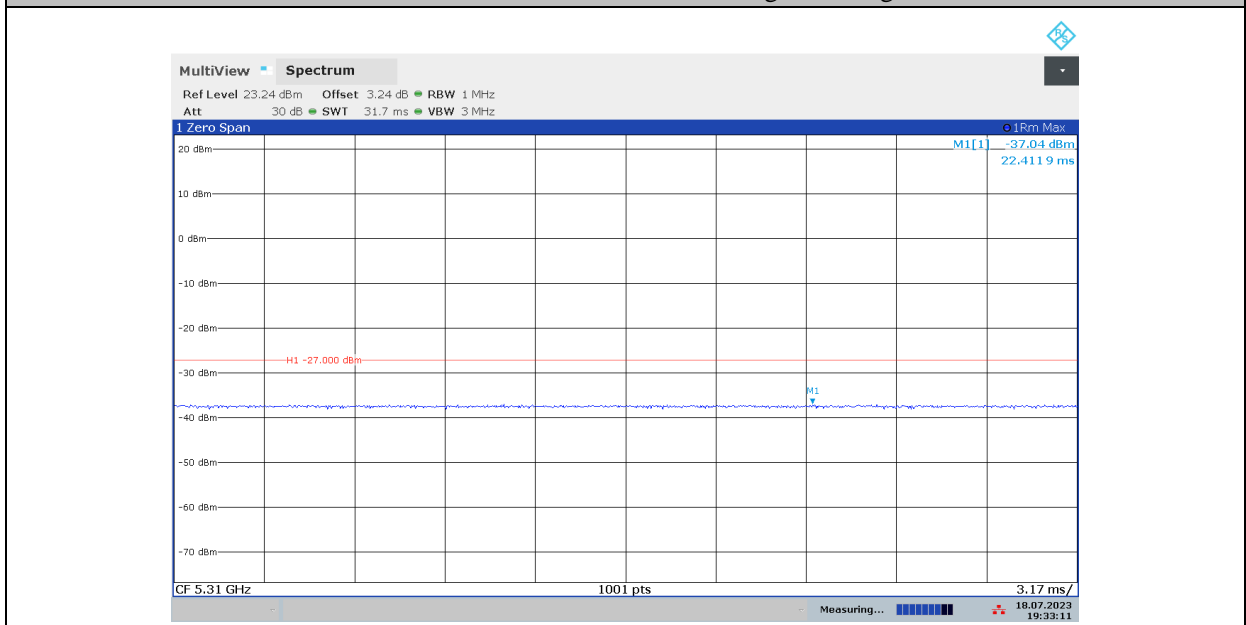


11BE160MIMO\_Ant10\_5250\_Puncturing40- configure-3

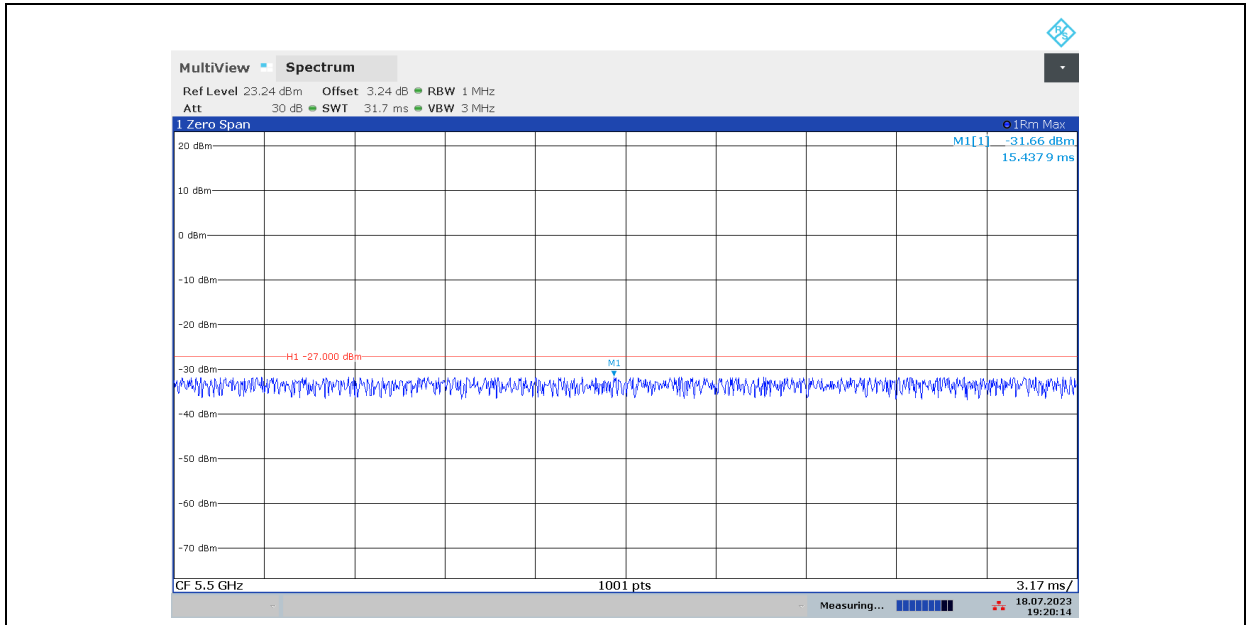




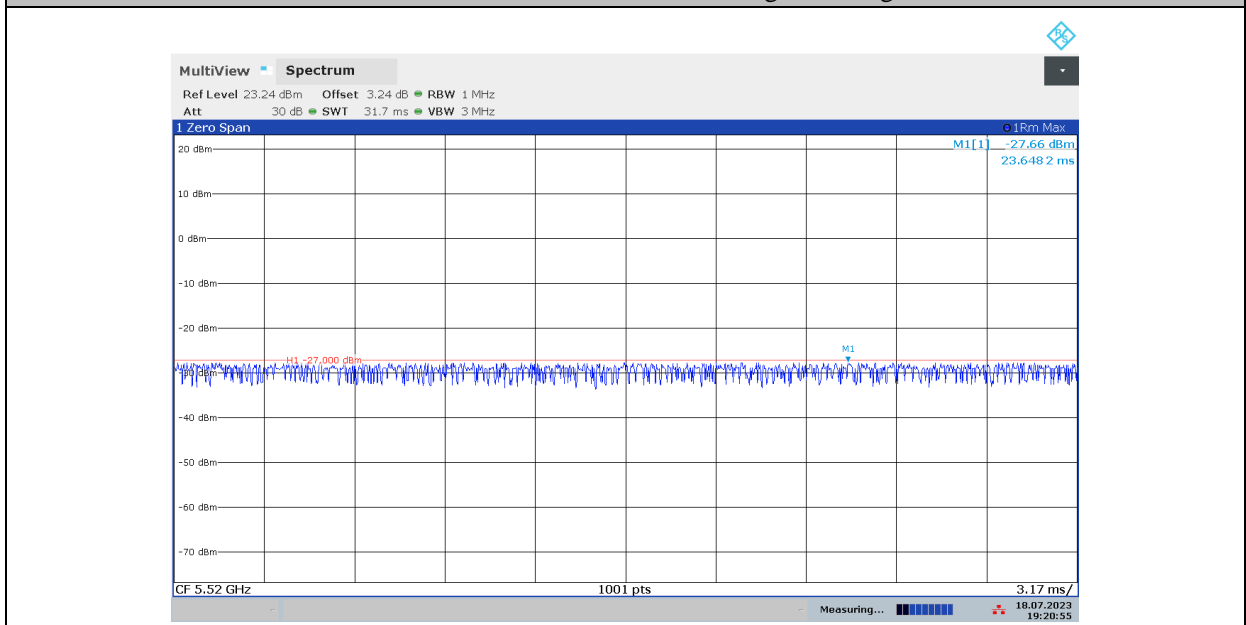
11BE160MIMO\_Ant10\_5250\_Puncturing40- configure-4



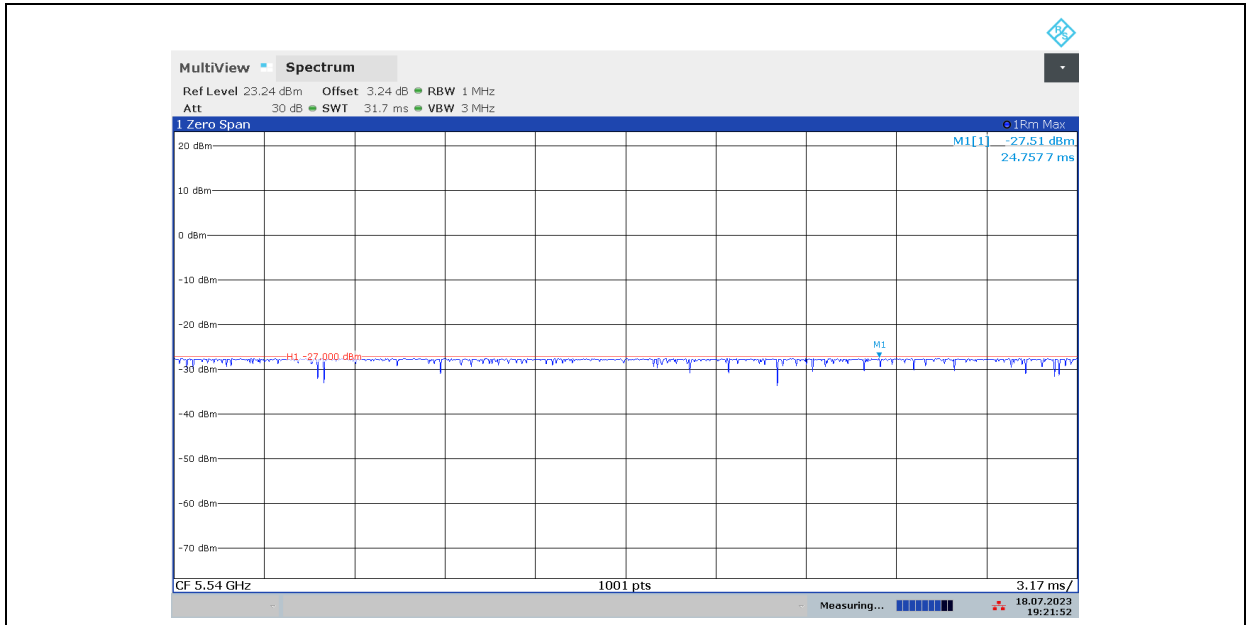
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-1



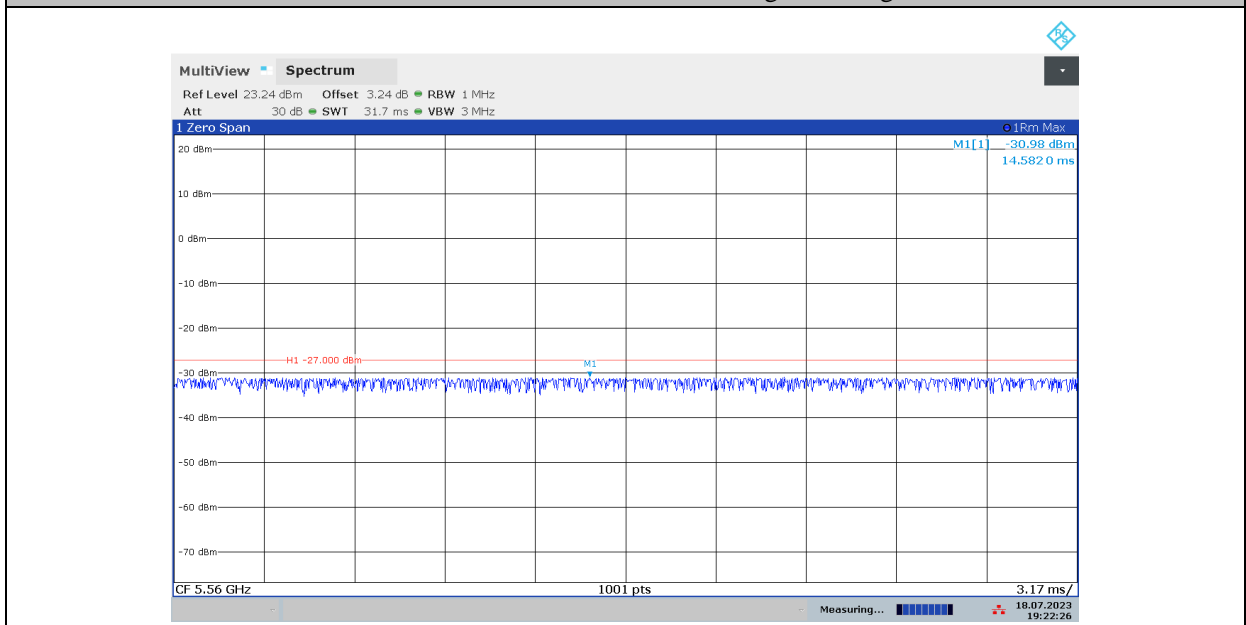
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-2



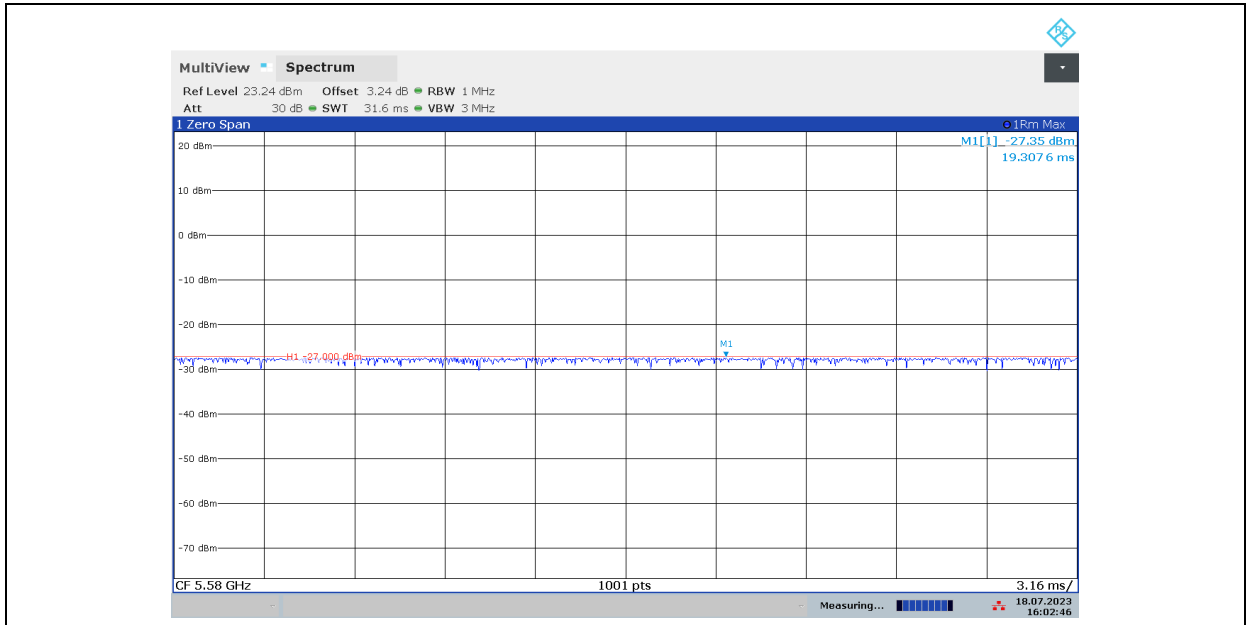
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-3



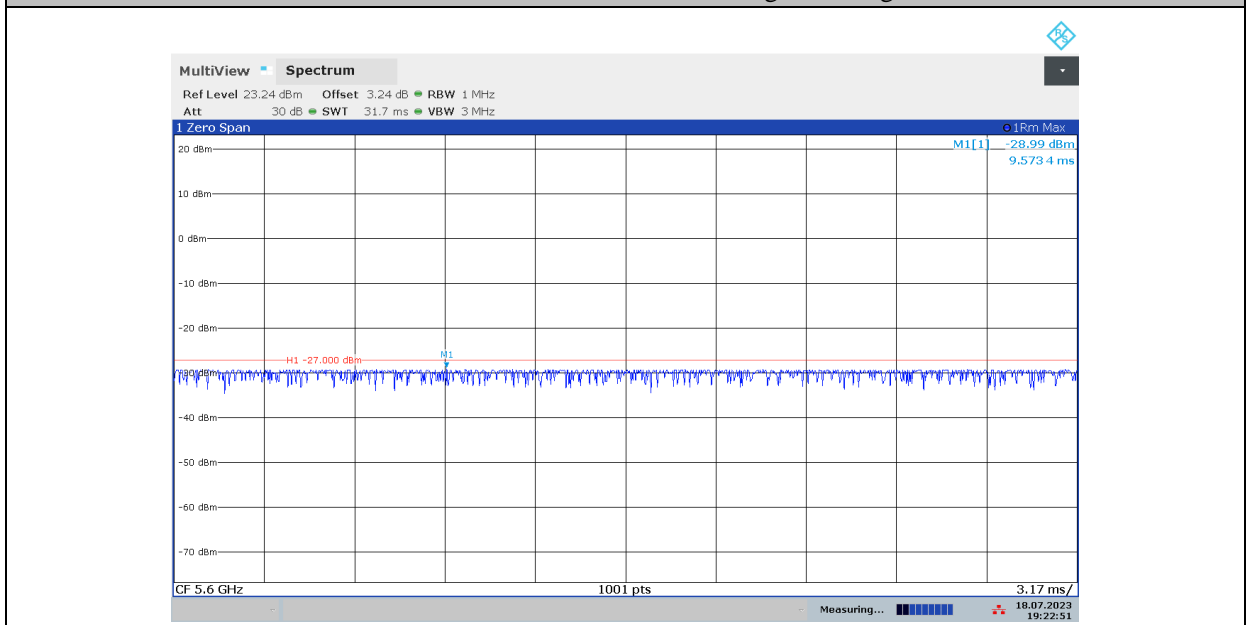
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-4



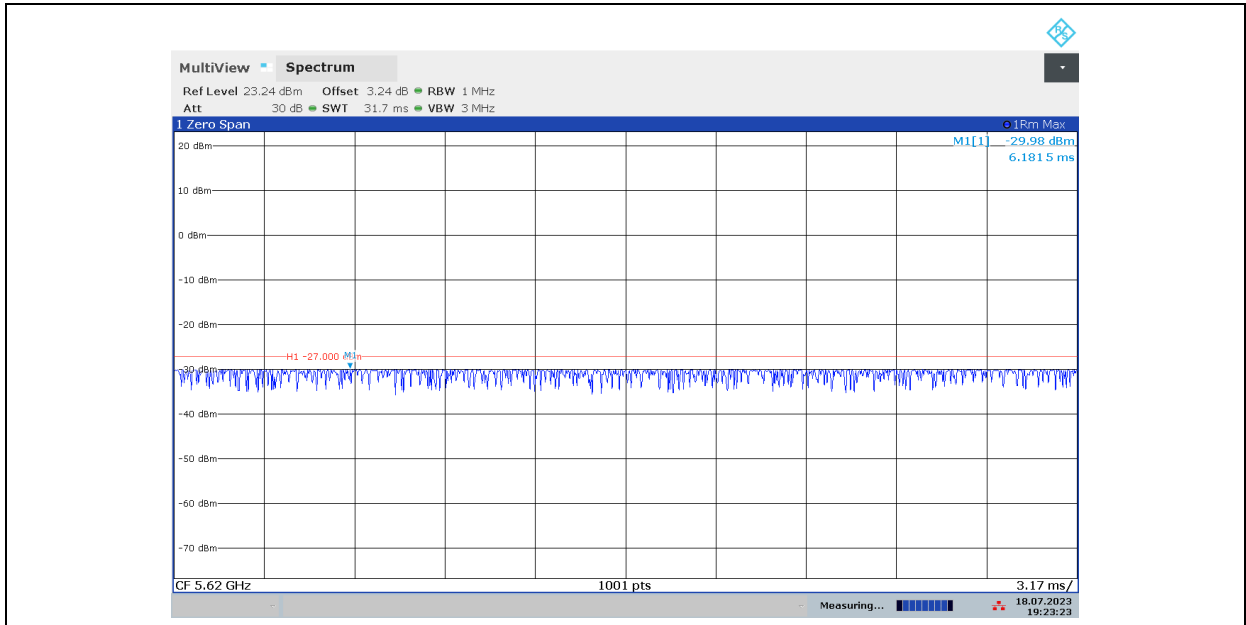
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-5



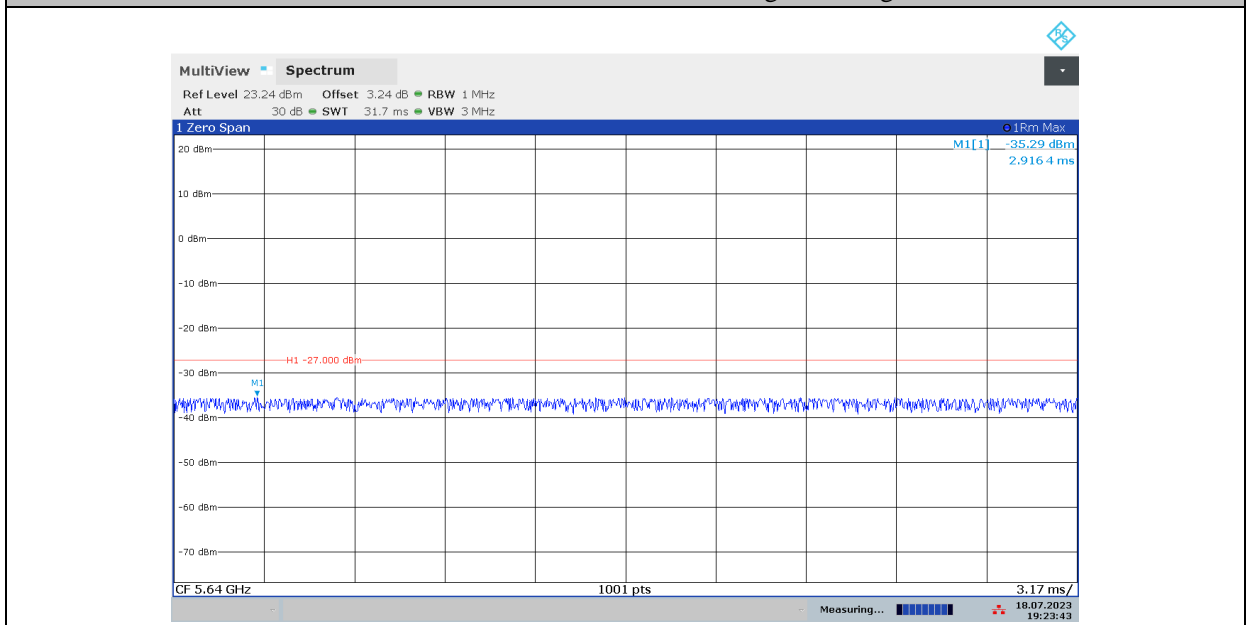
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-6



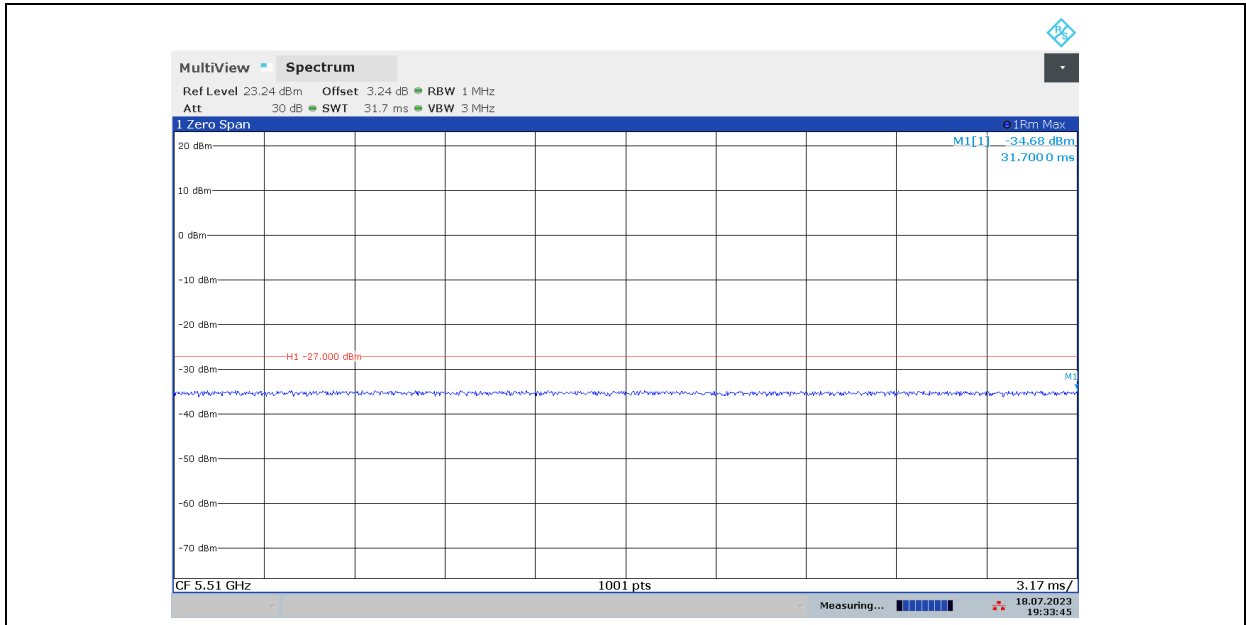
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-7



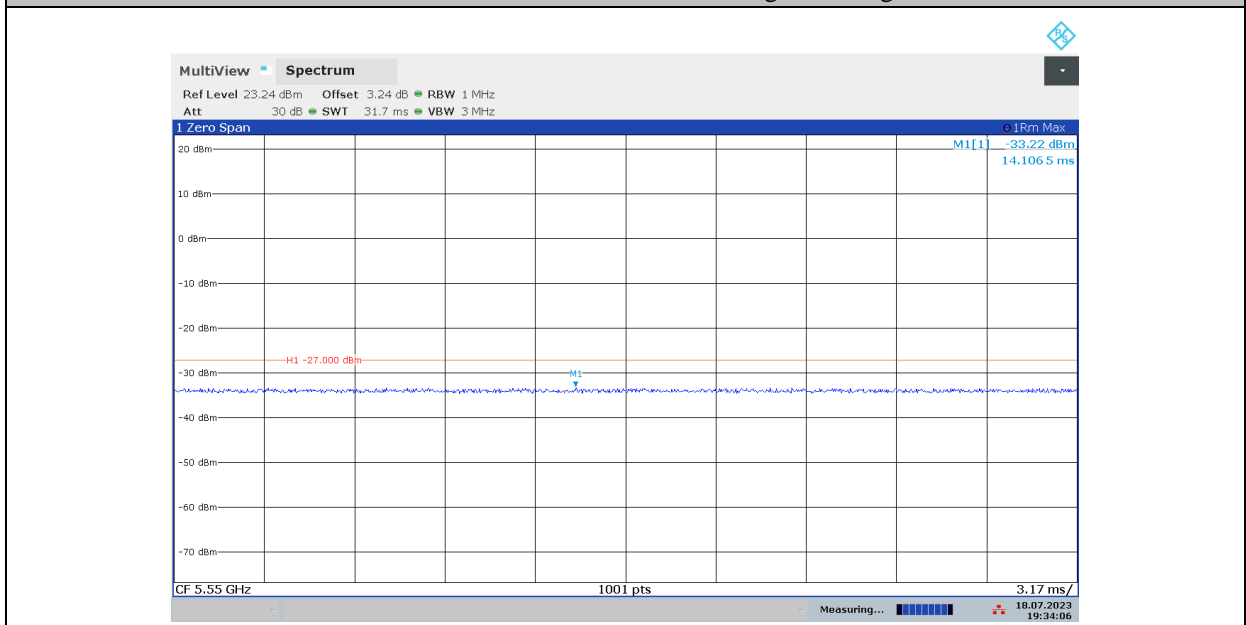
11BE160MIMO\_Ant10\_5570\_Puncturing20- configure-8



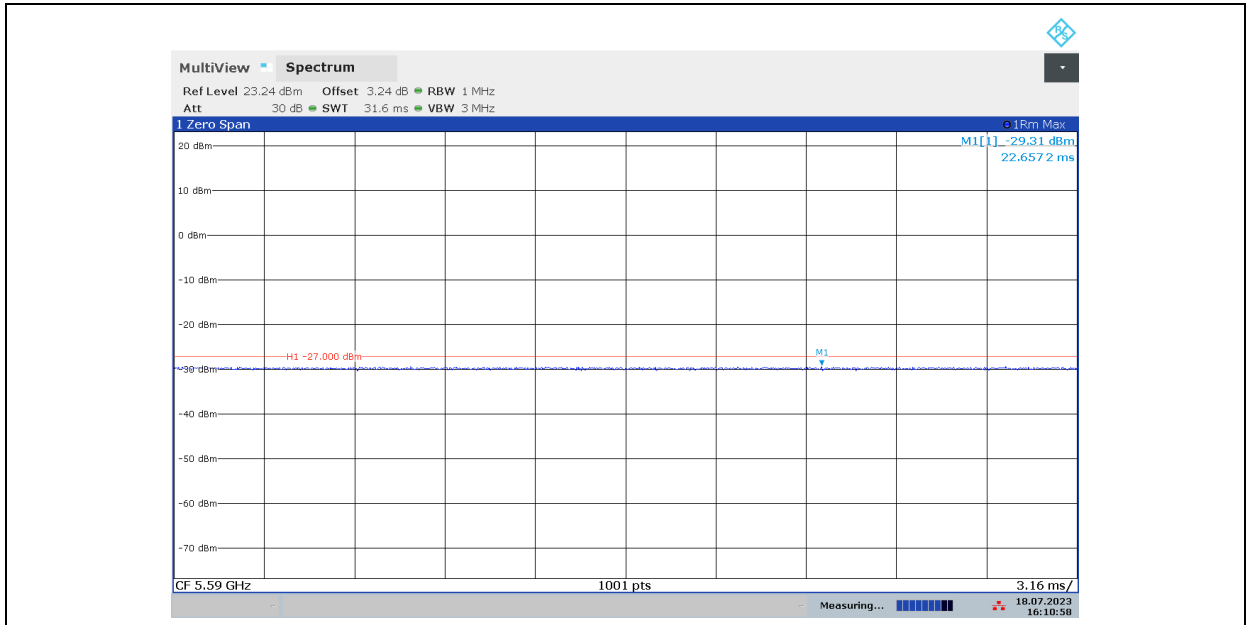
11BE160MIMO\_Ant10\_5570\_Puncturing40- configure-1



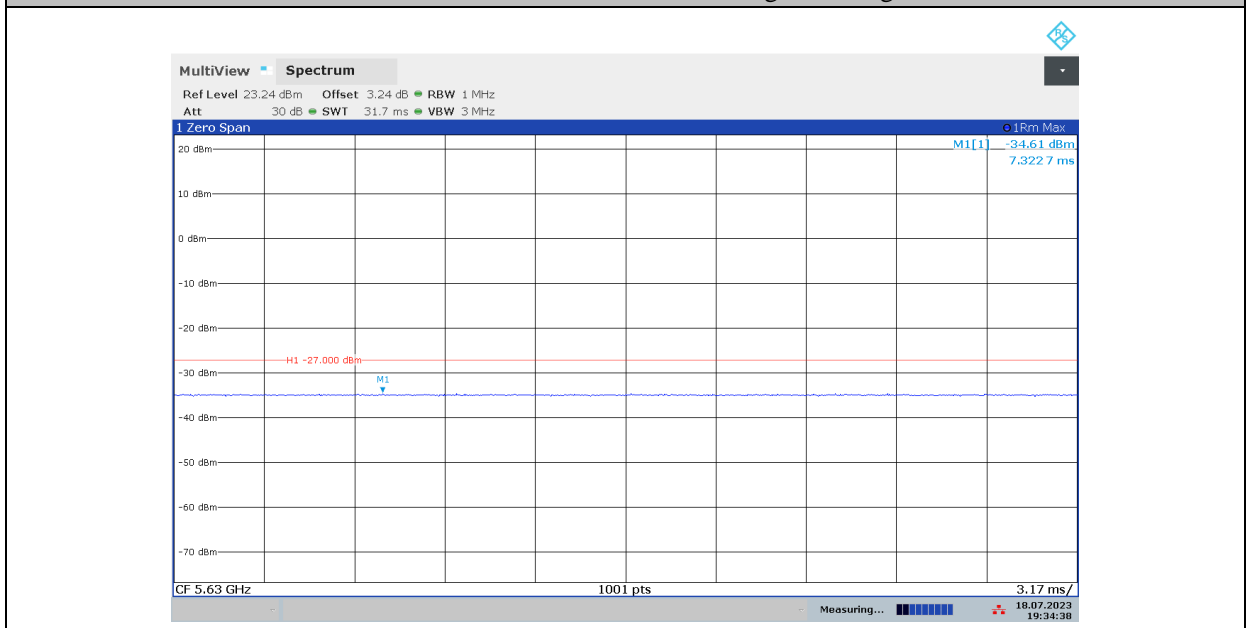
11BE160MIMO\_Ant10\_5570\_Puncturing40- configure-2



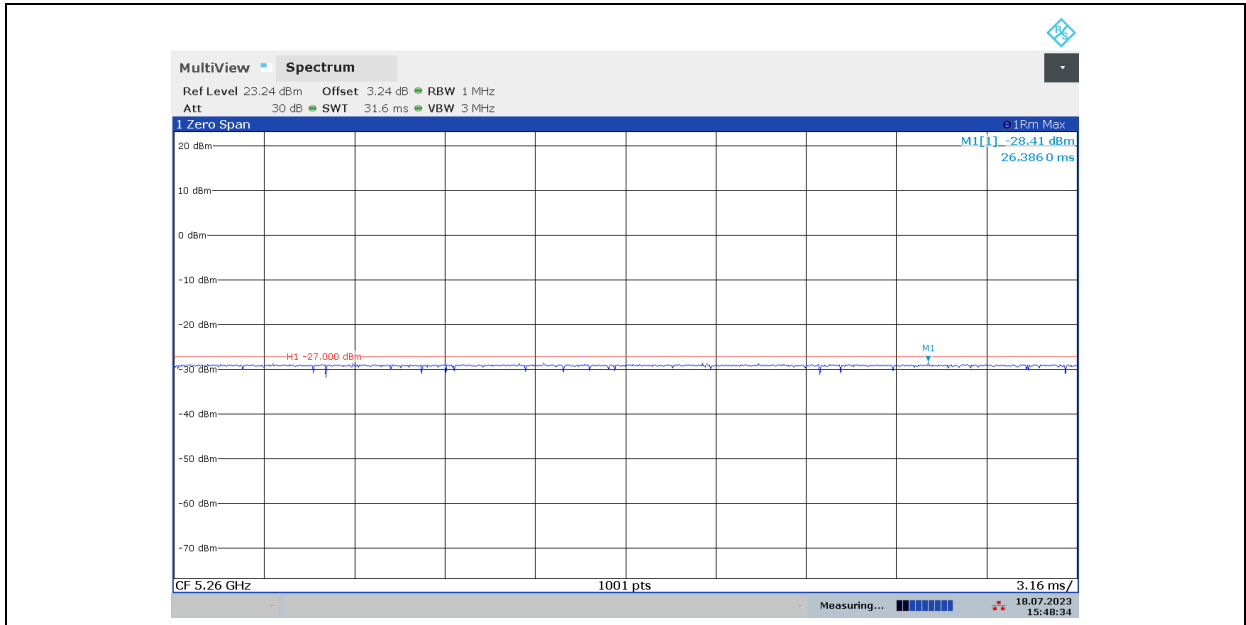
11BE160MIMO\_Ant10\_5570\_Puncturing40- configure-3



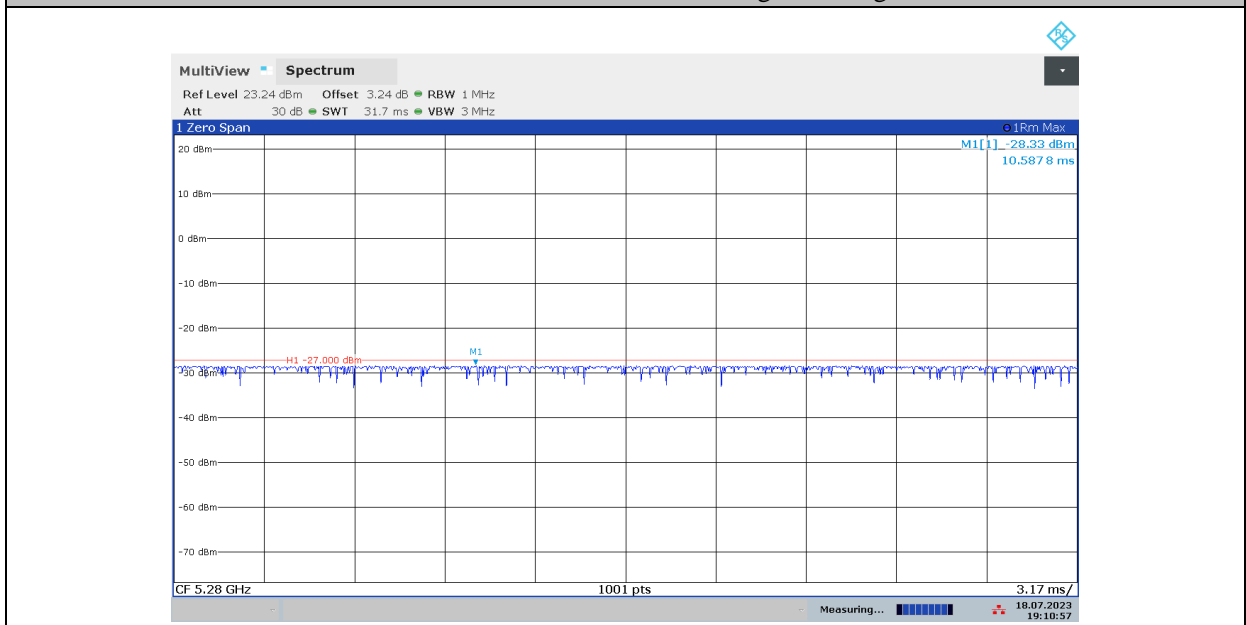
11BE160MIMO\_Ant10\_5570\_Puncturing40- configure-4



11BE160MIMO\_Ant7\_5250\_Puncturing20- configure-5



11BE160MIMO\_Ant7\_5250\_Puncturing20- configure-6

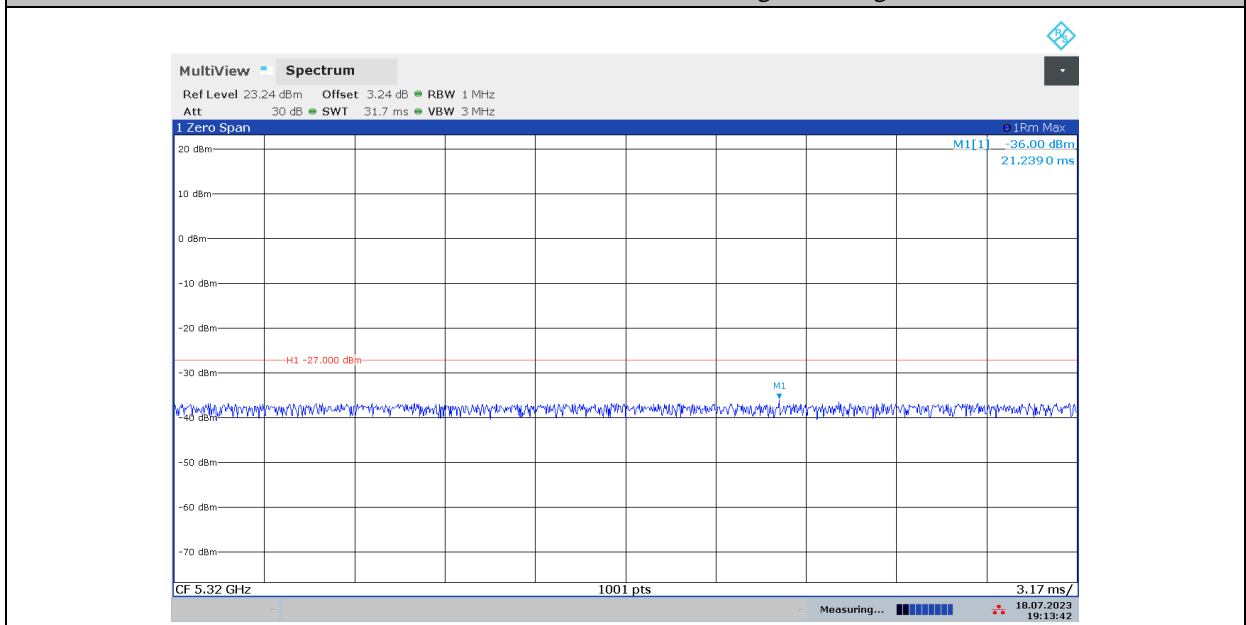


11BE160MIMO\_Ant7\_5250\_Puncturing20- configure-7

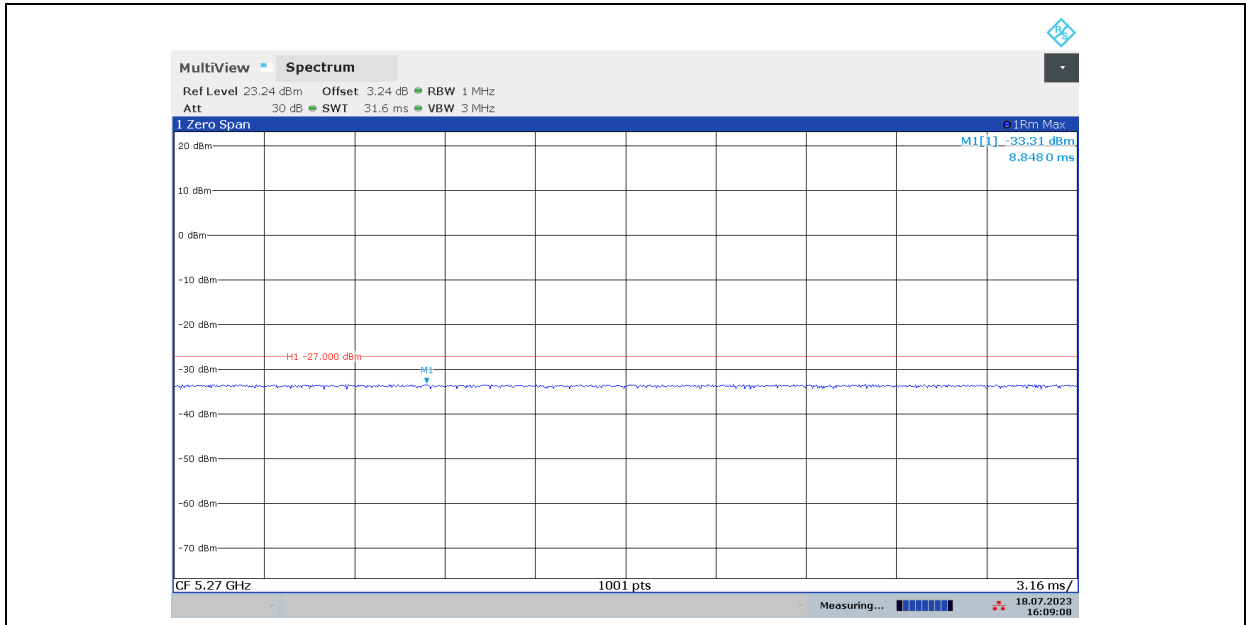




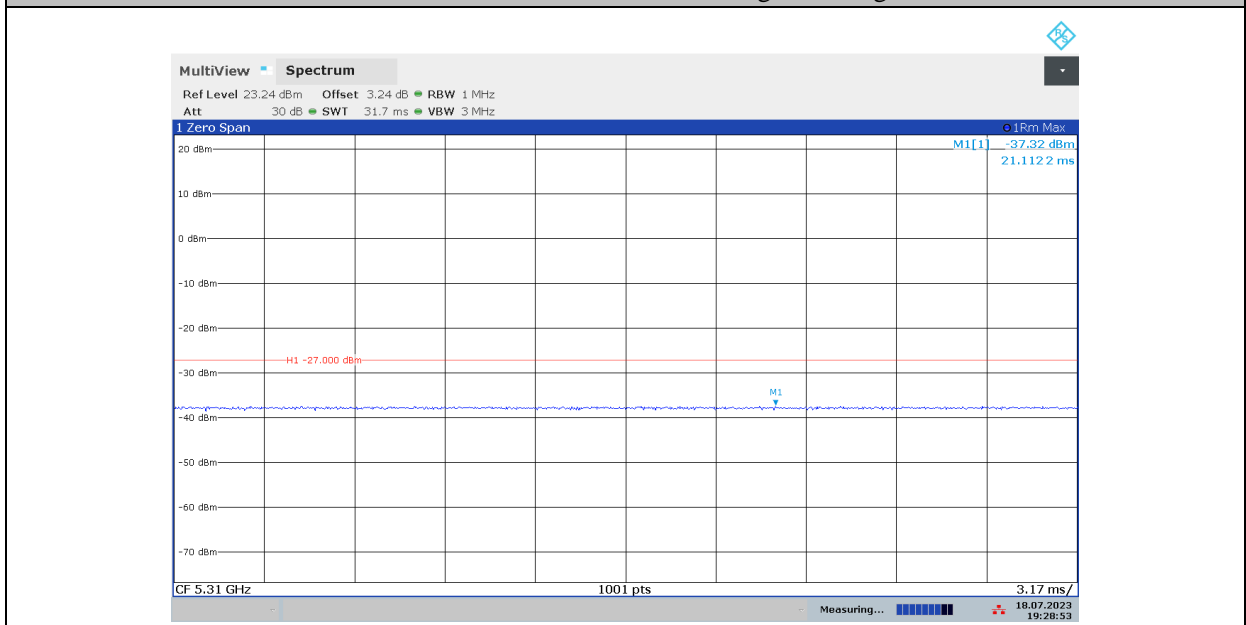
11BE160MIMO\_Ant7\_5250\_Puncturing20- configure-8



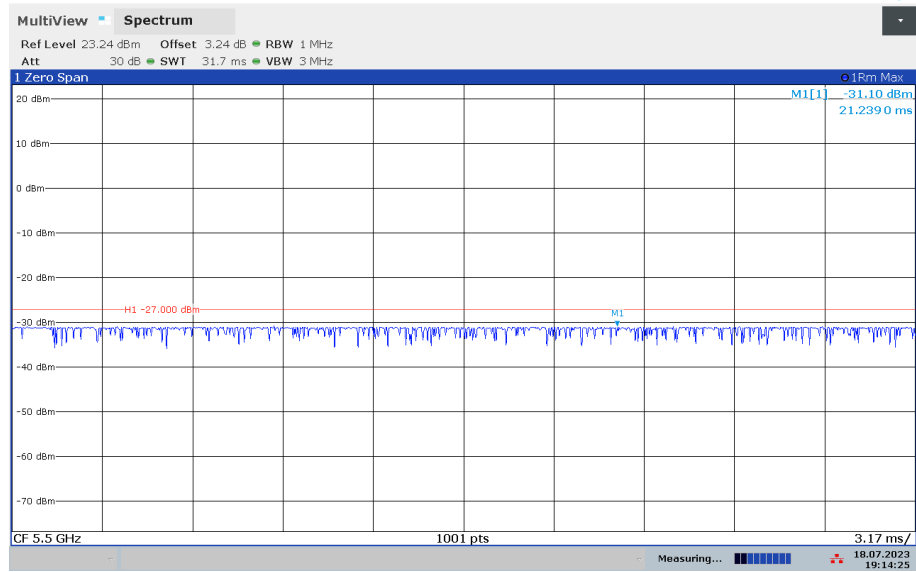
11BE160MIMO\_Ant7\_5250\_Puncturing40- configure-3



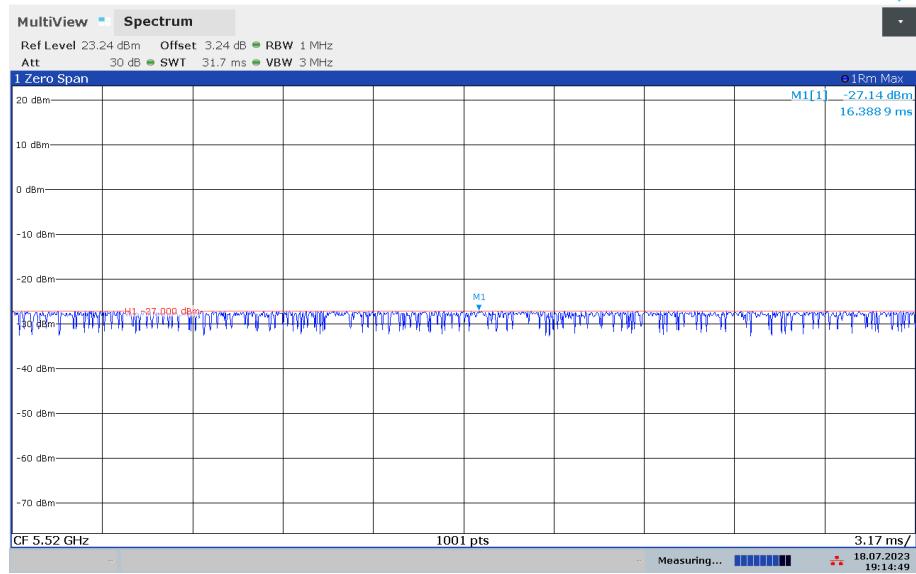
11BE160MIMO\_Ant7\_5250\_Puncturing40- configure-4



11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-1



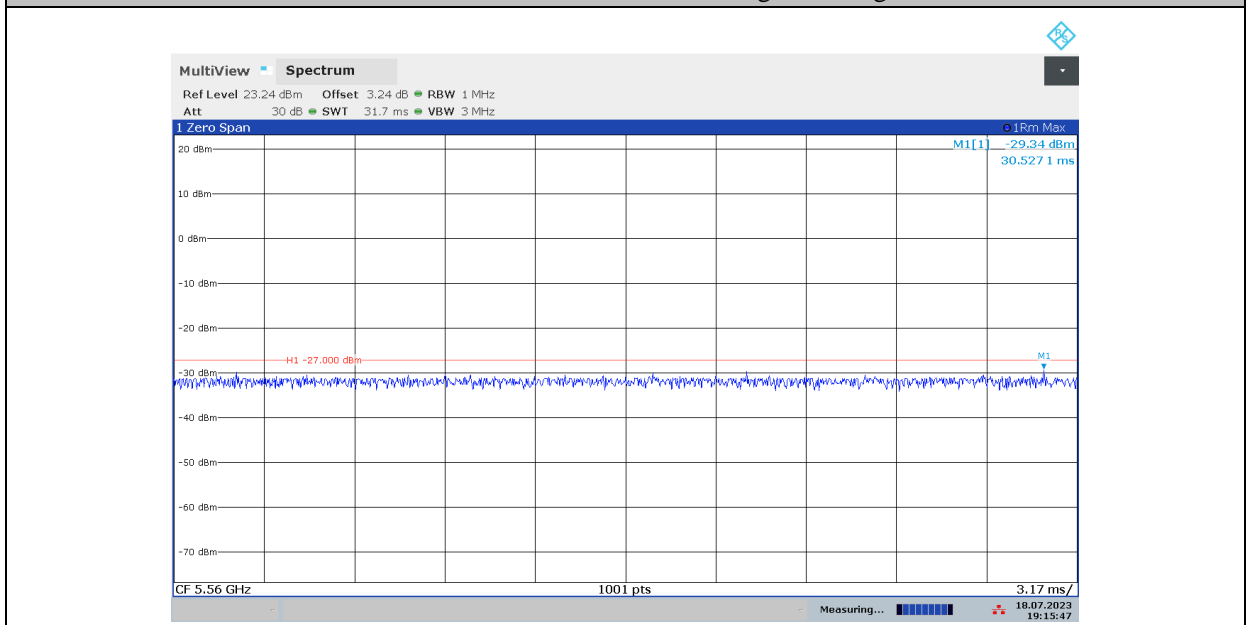
11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-2



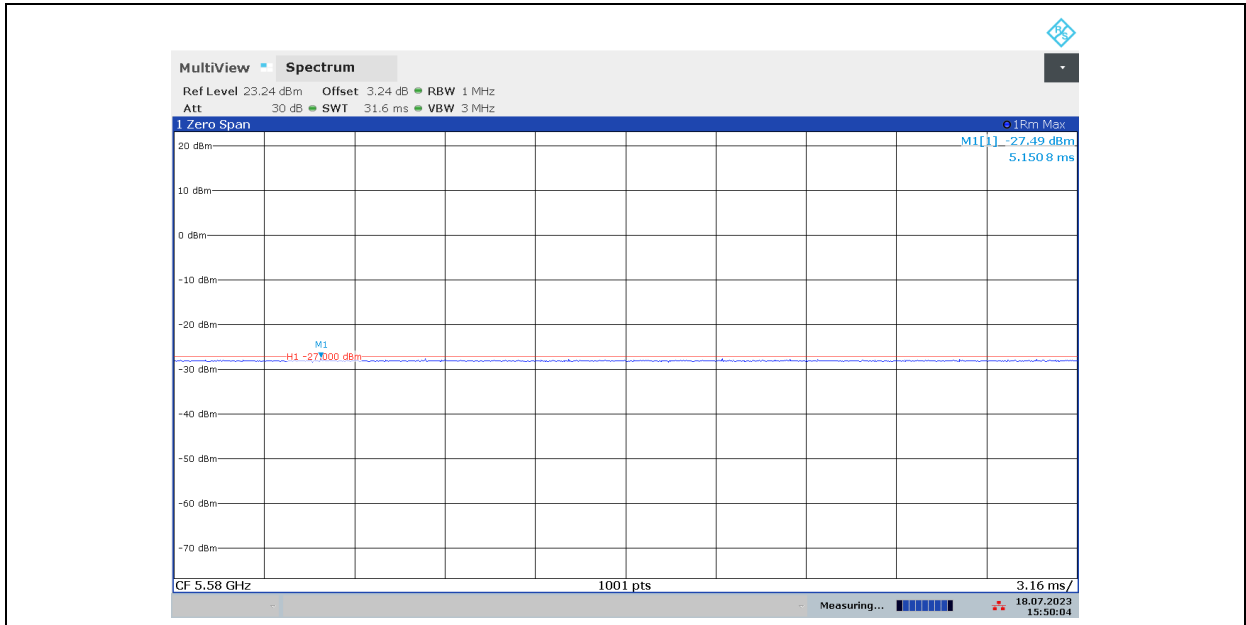
11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-3



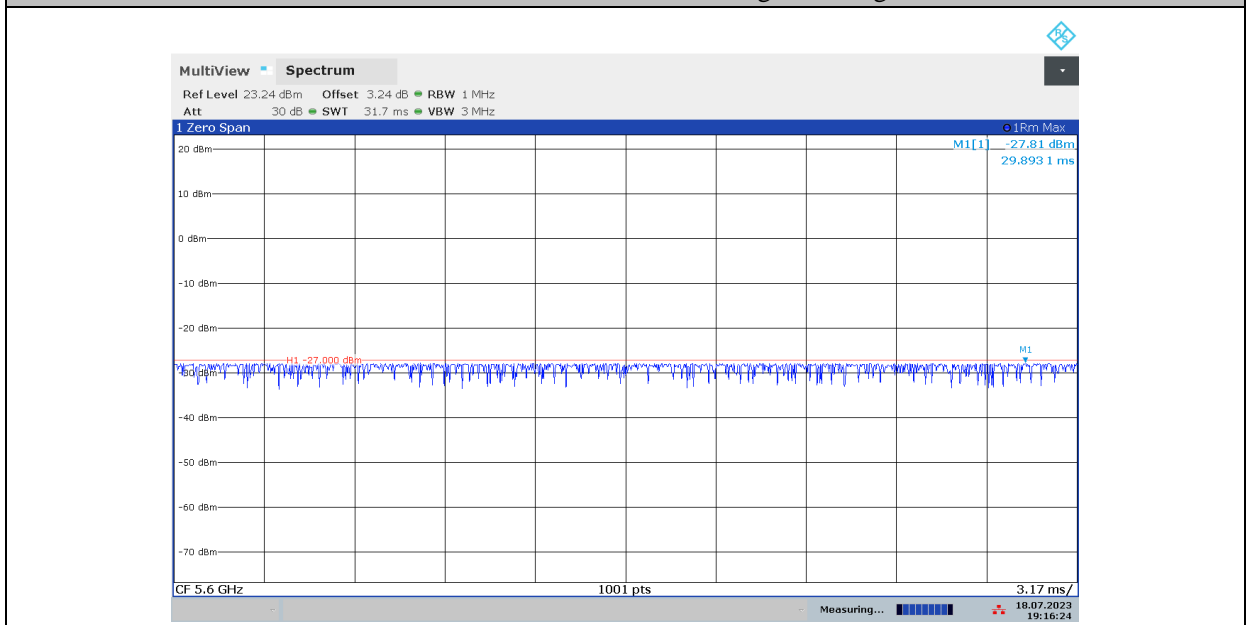
11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-4



11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-5



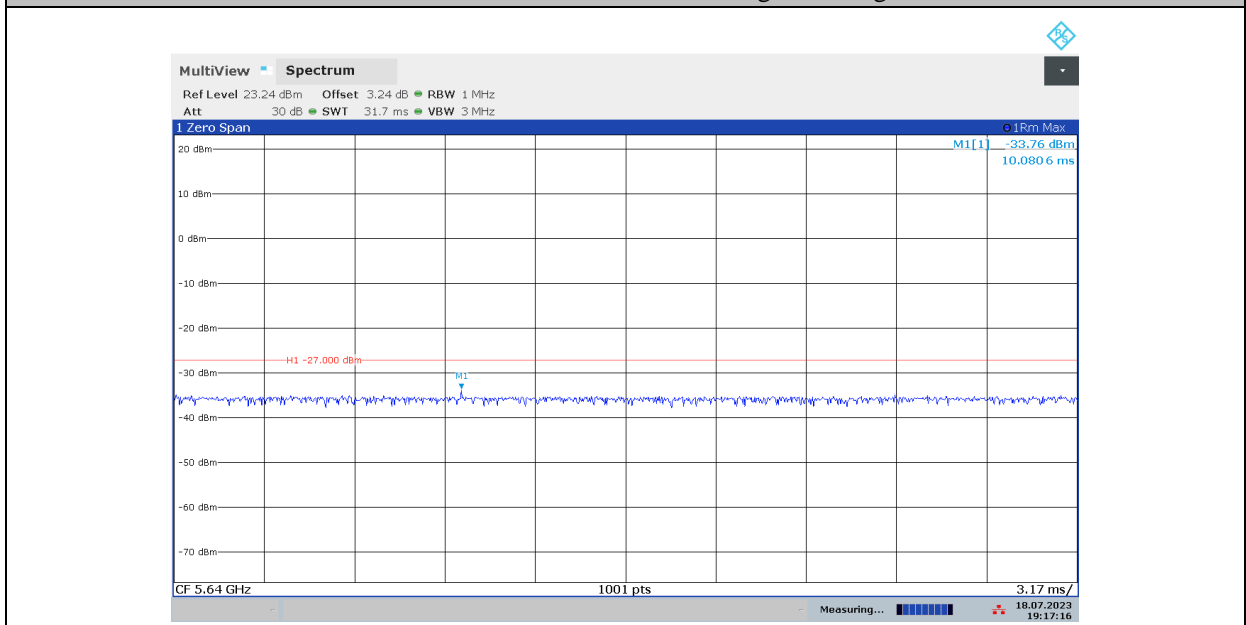
11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-6



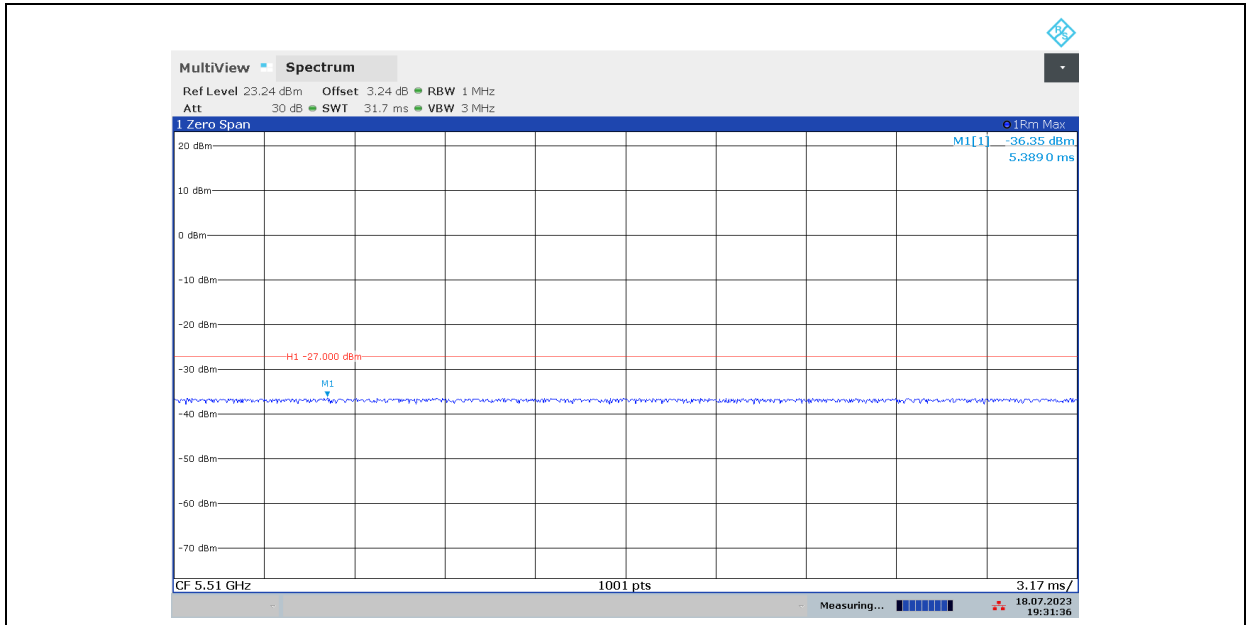
11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-7



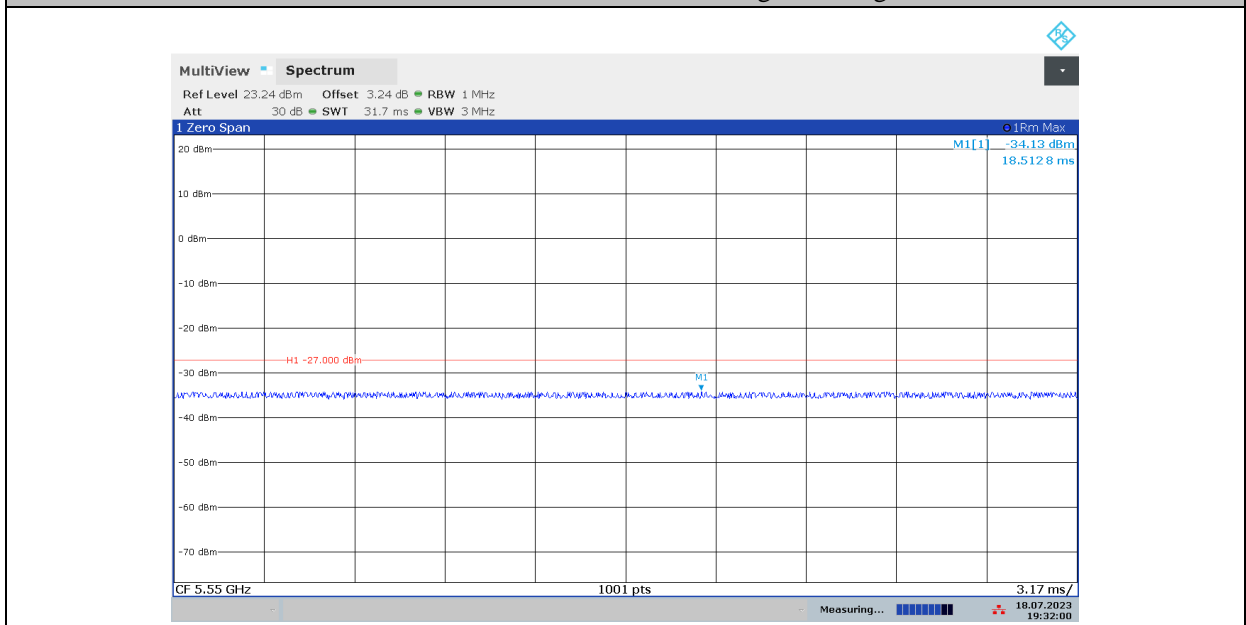
11BE160MIMO\_Ant7\_5570\_Puncturing20- configure-8



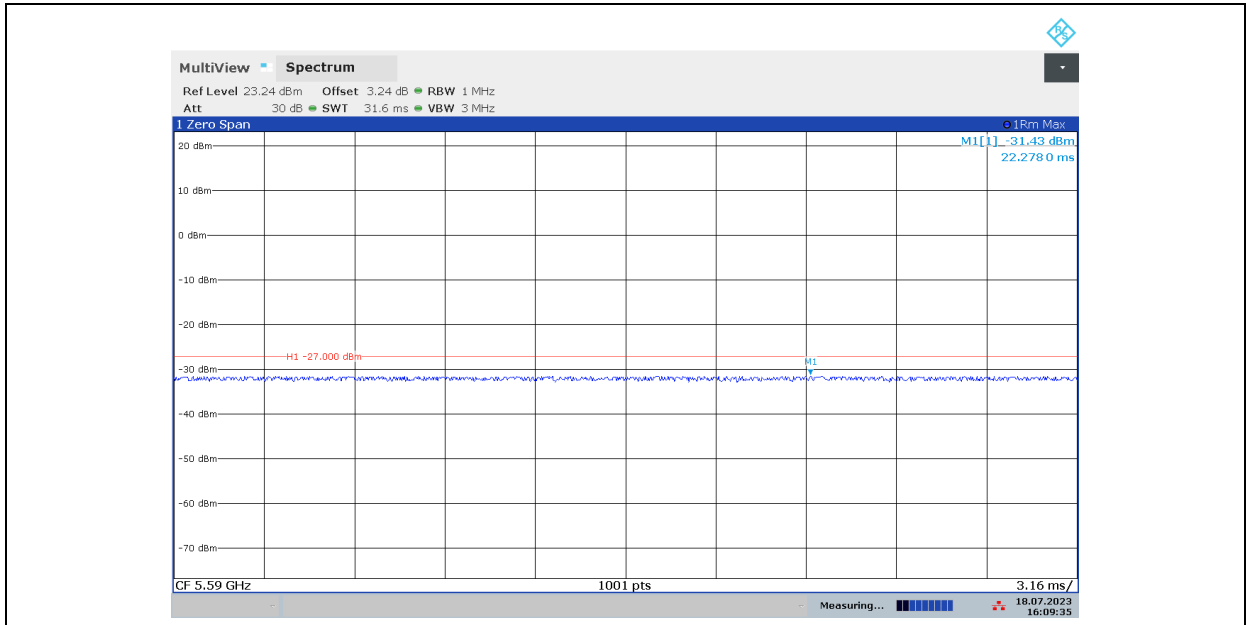
11BE160MIMO\_Ant7\_5570\_Puncturing40- configure-1



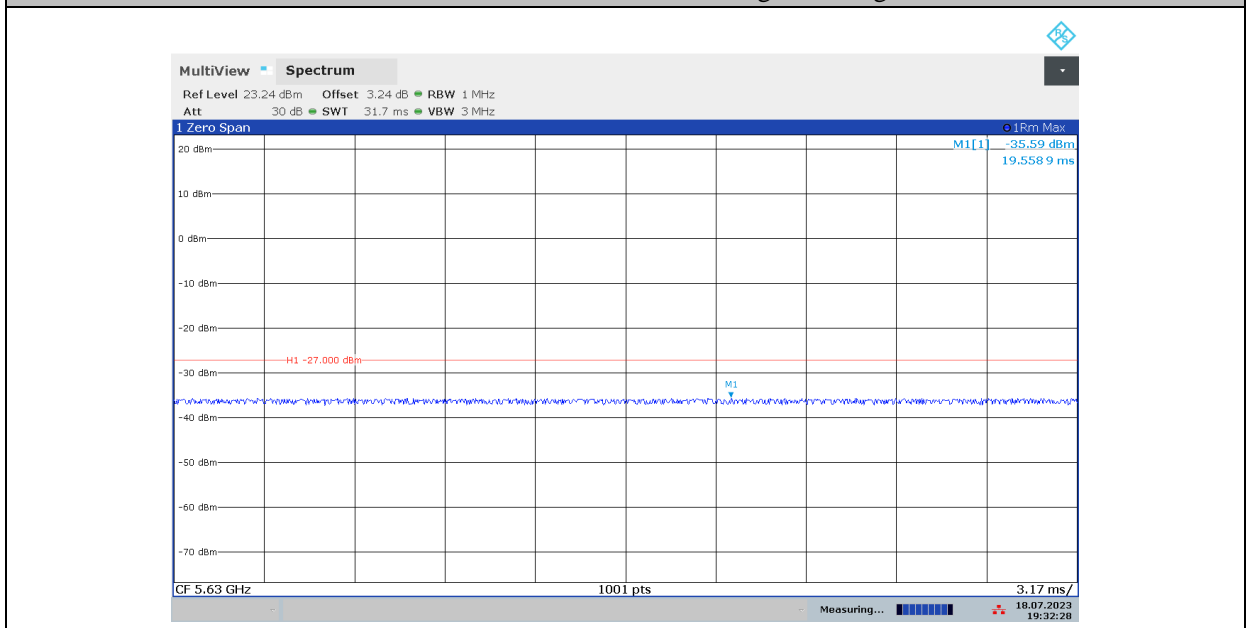
11BE160MIMO\_Ant7\_5570\_Puncturing40- configure-2



11BE160MIMO\_Ant7\_5570\_Puncturing40- configure-3



11BE160MIMO\_Ant7\_5570\_Puncturing40- configure-4



## ANNEX B: EUT parameters

Disclaimer: The antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.



## ANNEX C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">NVLAP<sup>®</sup></div><div style="text-align: center;"></div></div> <hr/> <p style="font-size: 1.2em; font-weight: bold;">Certificate of Accreditation to ISO/IEC 17025:2017</p> <hr/> <p>NVLAP LAB CODE: 600118-0</p> <p style="font-weight: bold; text-align: center;">Telecommunication Technology Labs, CAICT</p> <p style="text-align: center;">Beijing China</p> <p style="text-align: center;"><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p style="text-align: center;"><b>Electromagnetic Compatibility &amp; Telecommunications</b></p> <p style="text-align: center;"><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"><div style="text-align: center;"><hr/><p>2022-10-01 through 2023-09-30 <i>Effective Dates</i></p></div><div style="text-align: center;"></div><div style="text-align: center;"><hr/> <i>For the National Voluntary Laboratory Accreditation Program</i></div></div>	
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