FCC PART 15
TEST REPORT
No.24T04Z101591-005

for

Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Mobile Phone

CPH2659

FCC ID: R9C-OP23216

with

Hardware Version: 11

Software Version: Color OS 15.0

Issued Date: 2024-10-09

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

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

©Copyright. All rights reserved by CTTL.

REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04Z101591-005	Rev.0	1st edition	2024-09-26
24T04Z101591-005	Rev.1	Change the modulation mode to OFDMA.	2024-10-09

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

©Copyright. All rights reserved by CTTL.

CONTENTS

CONTENTS 3

1. TEST LABORATORY 4

1.1. INTRODUCTION & ACCREDITATION 4
1.2. TESTING LOCATION 4
1.3. TESTING ENVIRONMENT 4
1.4. PROJECT DATE 4
1.5. SIGNATURE 4

2. CLIENT INFORMATION 5

2.1. APPLICANT INFORMATION 5
2.2. MANUFACTURER INFORMATION 5

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) 6

3.1. ABOUT EUT 6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST 6
3.3. GENERAL DESCRIPTION 6

4. REFERENCE DOCUMENTS 7

4.1. DOCUMENTS SUPPLIED BY APPLICANT 7
4.2. REFERENCE DOCUMENTS FOR TESTING 7

5. LABORATORY ENVIRONMENT 7

6. TEST RESULTS 7

6.1. SUMMARY OF TEST RESULTS 7
6.2. STATEMENTS 7
6.3. TEST CONDITIONS 8

7. TEST FACILITIES UTILIZED 8

ANNEX A: DETAILED TEST RESULTS 9

A.1. MEASUREMENT METHOD 9
A.2. CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME 11
A.3.NON-OCCUPANCY PERIOD 14
A3.1 ASSOCIATED TEST 14
A.4.CHANNEL PUNCTURING 16
A.4.1CHECK 99% OBW 16
A.4.2 PUNCTURED CHANNEL E.I.R.P CHECK 42

A.5. ANTENNA REQUIREMENT 57

ANNEX B: EUT PARAMETERS 58

ANNEX C: ACCREDITATION CERTIFICATE 58

©Copyright. All rights reserved by CTTL.

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2024-08-27

Testing End Date: 2024-09-25

1.5. Signature

Dong Jiaxuan

(Prepared this test report)

Zheng Wei

(Reviewed this test report)

Pang Shuai

(Approved this test report)

©Copyright. All rights reserved by CTTL.

2. Client Information

2.1. Applicant Information

Company Name：	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Company Addr：	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Contact Name：	Xiong Bo
Tel No：	(86)76986076999
E-mail：	xiongbo@oppo.com

2.2. Manufacturer Information

Company Name：	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Company Addr：	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Contact Name：	Xiong Bo
Tel No：	(86)76986076999
E-mail：	xiongbo@oppo.com

©Copyright. All rights reserved by CTTL.

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

3.1. About EUT

Description	Mobile Phone
Model name	CPH2659
FCC ID	R9C-OP23216
WLAN Frequency Band	ISM Band: -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDMA
Antenna	Integral Antenna
Device Type (DFS)	Client without radar detection(only support client mode)
Nominal Voltage	3.87V

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT02a	866185070019957/ 866185070019940	11	Color OS 15.0

*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.

©Copyright. All rights reserved by CTTL.

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 905462 D02	COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION	2016

5. Laboratory Environment

Measurement is performed in shielding room.

6. 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)	**P**
Non-Occupancy Period	15.407 (h)(2) (iv)	**P**

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 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.

©Copyright. All rights reserved by CTTL.

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	3.87V
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	2025-07-04
2	Vector Signal Generator	SMU200A	103752	Rohde & Schwarz	1 year	2025-07-04
3	Shielding Room	S81	/	ETS-Lindgren	/	/

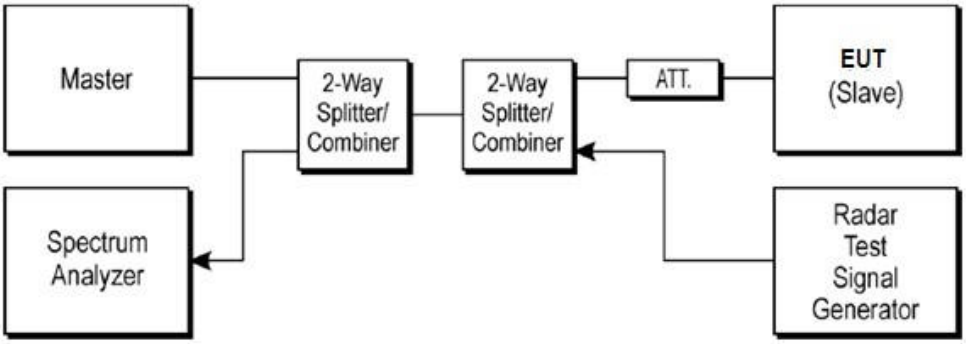
©Copyright. All rights reserved by CTTL.

ANNEX A: Detailed Test Results

A.1. Measurement Method

A.1.1. Conducted Measurements

The below figure shows the DFS setup, where the EUT is a RLAN 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 channel bandwidth.
2) The master device information is as follows
   Vendor: ASUS
   Model: GT-AXE11000
   FCC ID: MSQ-RTAXJF00
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:

©Copyright. All rights reserved by CTTL.

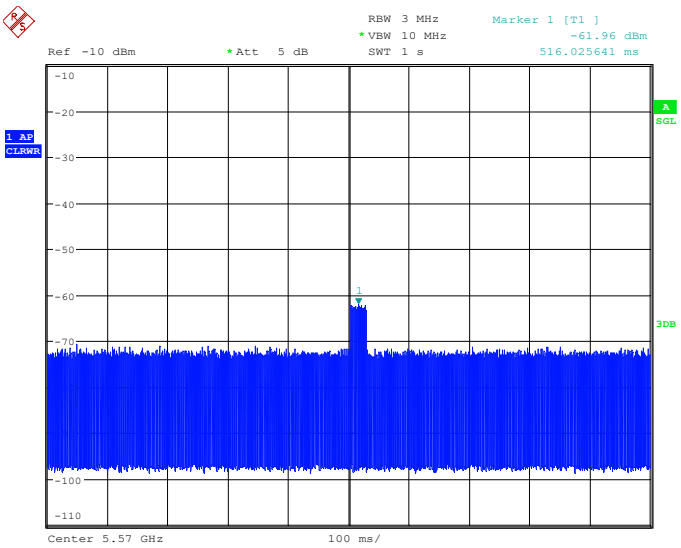


Fig.A.1 160M Calibration Result

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

©Copyright. All rights reserved by CTTL.

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-5250MHz)

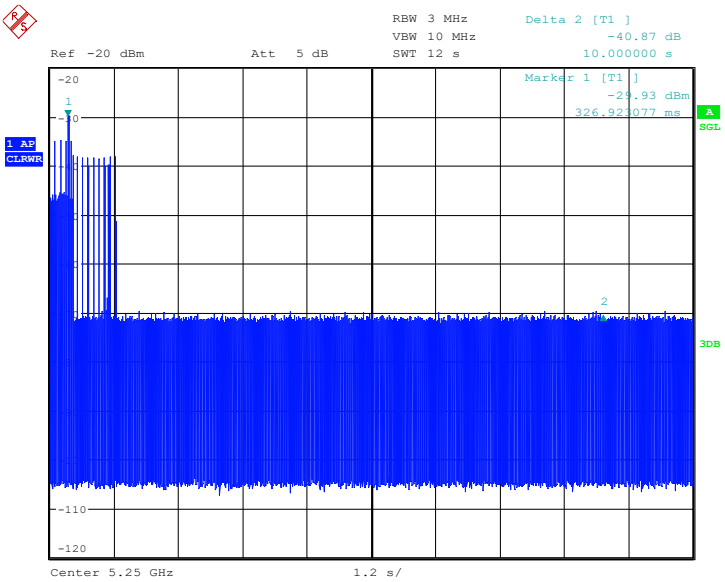


Fig.A.2 Channel move time

The 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.

©Copyright. All rights reserved by CTTL.

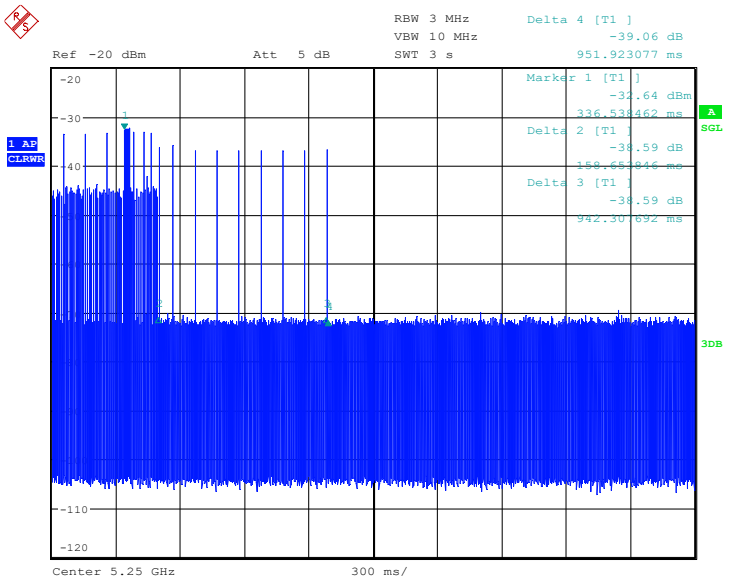


Fig.A.3 channel closing transmission time

The closing transmission time is as the figure, and the result is 235.57 ms=Delta2+(Delta4-Delta3)*8.

Conclusion: PASS

Frequency Band 5470MHz ~ 5725MHz(160M-5570MHz)

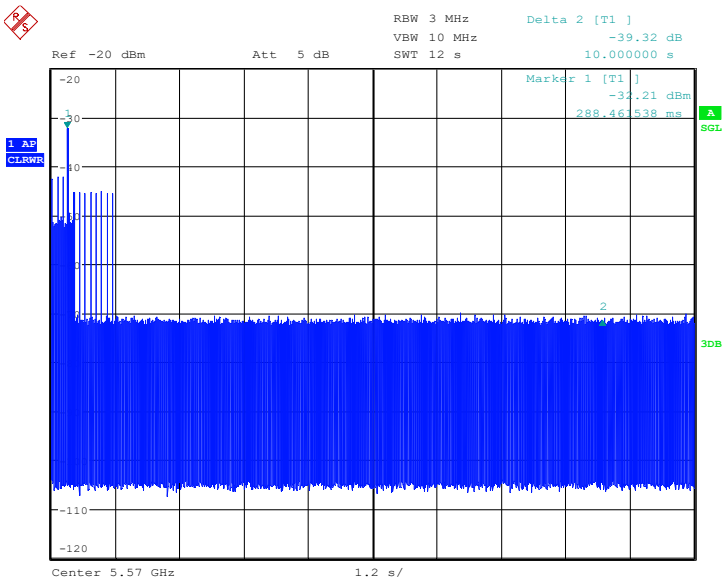


Fig.A.4 Channel move time

The channel move time is as the figure. It shows the time of the radar and the client pulses. The

©Copyright. All rights reserved by CTTL.

figure shows that the client stops transmission within 10 seconds, and no transmissions occur after 10 seconds later of the radar burst signal.

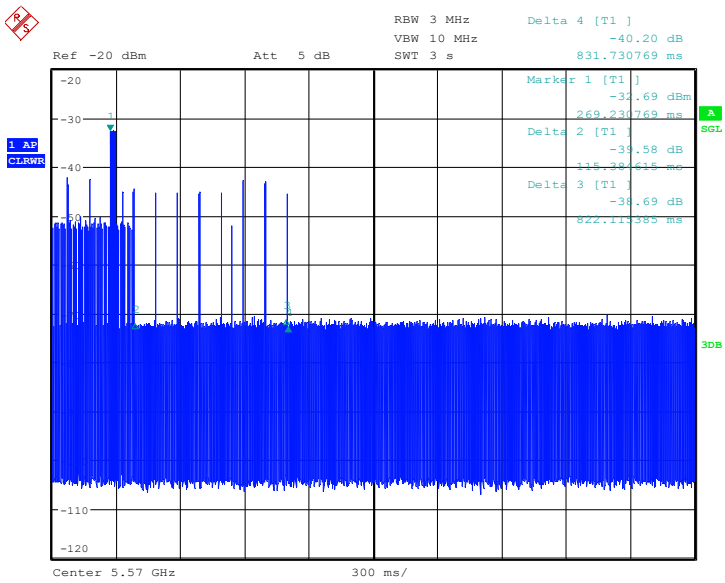


Fig.A.5 channel closing transmission time

The closing transmission time is as the figure, and the result is 211.53ms= Delta2+(Delta4-Delta3)*10.

Conclusion: PASS

©Copyright. All rights reserved by CTTL.

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: 5150MHz ~ 5350MHz(160M-5250MHz)

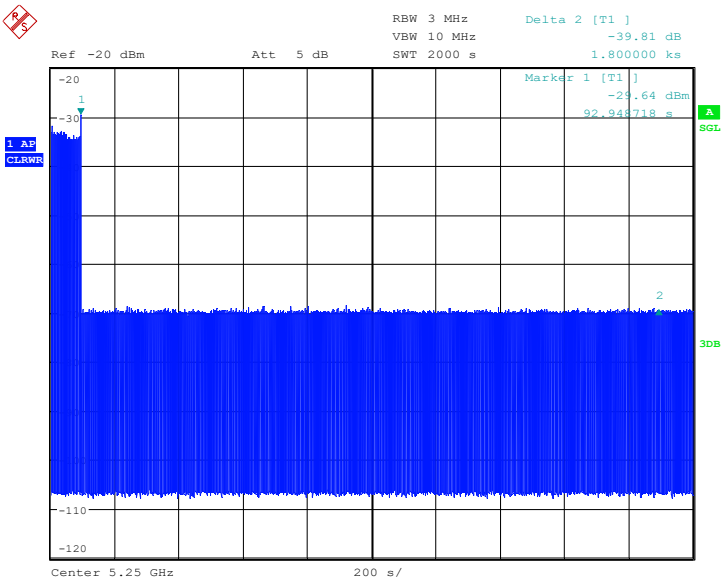


Fig.A.6 Non-Occupancy Period

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

Frequency Band: 5470MHz ~ 5725MHz(160M-5570MHz)

©Copyright. All rights reserved by CTTL.

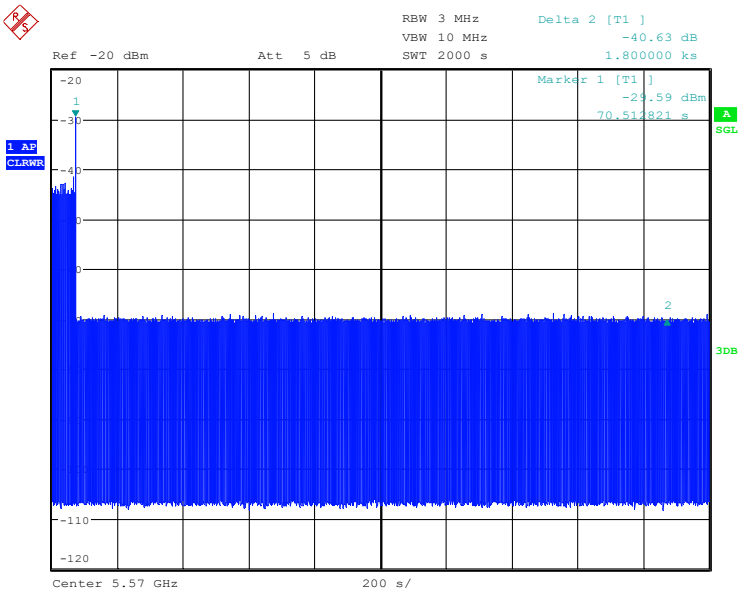


Fig.A.7 Non-Occupancy Period

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

©Copyright. All rights reserved by CTTL.

A.4.Channel puncturing

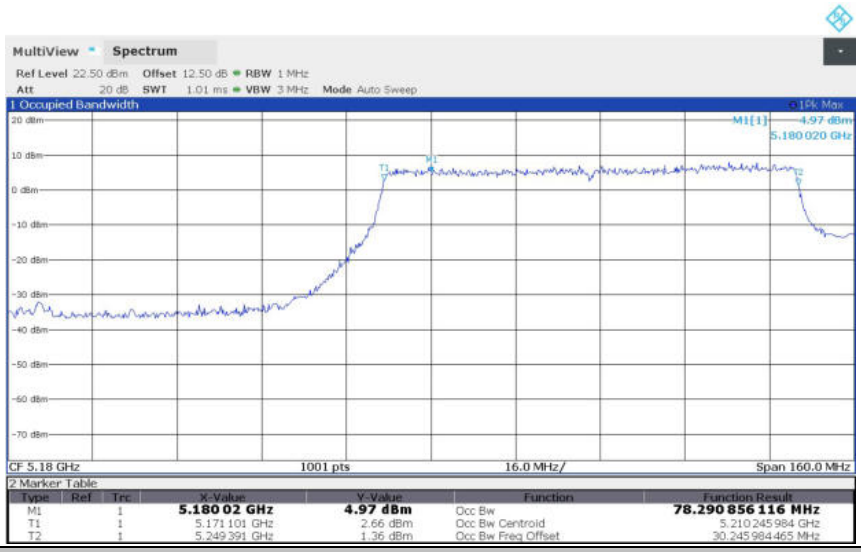
A.4.1Check 99% OBW

Test Mode	Antenna	Fre (MHz)	Puncturing	configure	OCB
11BE160MIMO	Ant10	5250	Puncturing 20M	5	78.37
		5250	Puncturing 20M		59.72
	Ant14	5250	Puncturing 20M	5	78.29
		5250	Puncturing 20M		59.43
	Ant10	5250	Puncturing 20M	6	98.50
		5250	Puncturing 20M		38.24
	Ant14	5250	Puncturing 20M	6	98.47
		5250	Puncturing 20M		38.39
	Ant10	5250	Puncturing 20M	7	117.85
		5250	Puncturing 20M		19.19
	Ant14	5250	Puncturing 20M	7	117.89
		5250	Puncturing 20M		19.06
	Ant10	5250	Puncturing 20M	8	138.48
	Ant14	5250	Puncturing 20M	8	138.37
	Ant10	5250	Puncturing 40M	3	78.23
		5250	Puncturing 40M		38.29
	Ant14	5250	Puncturing 40M	3	78.15
		5250	Puncturing 40M		38.28
	Ant10	5250	Puncturing 40M	4	118.05
	Ant14	5250	Puncturing 40M	4	118.23
	Ant10	5570	Puncturing 20M	1	138.45
	Ant14	5570	Puncturing 20M	1	138.65
	Ant10	5570	Puncturing 20M	2	19.21
		5570	Puncturing 20M		118.22
	Ant14	5570	Puncturing 20M	2	19.02
		5570	Puncturing 20M		118.21
	Ant10	5570	Puncturing 20M	3	38.34
		5570	Puncturing 20M		99.67
	Ant14	5570	Puncturing 20M	3	38.31
		5570	Puncturing 20M		99.56
	Ant10	5570	Puncturing 20M	4	59.75
		5570	Puncturing 20M		78.40
	Ant14	5570	Puncturing 20M	4	59.44
		5570	Puncturing 20M		78.43
	Ant10	5570	Puncturing 20M	5	78.37
		5570	Puncturing 20M		59.65
	Ant14	5570	Puncturing 20M	5	78.33
		5570	Puncturing 20M		59.77

©Copyright. All rights reserved by CTTL.

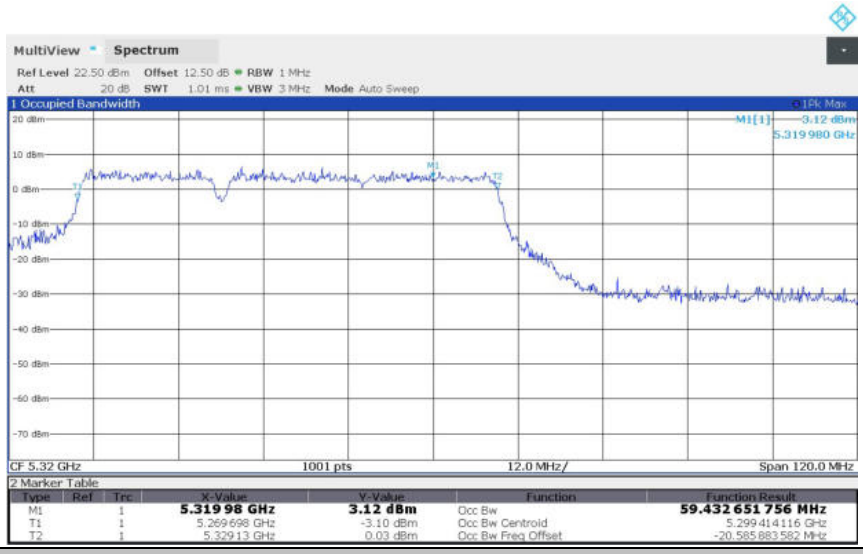
	Ant10	5570	Puncturing 20M	6	98.34
		5570	Puncturing 20M		38.29
	Ant14	5570	Puncturing 20M	6	98.56
		5570	Puncturing 20M		38.33
	Ant10	5570	Puncturing 20M	7	117.87
		5570	Puncturing 20M		19.04
	Ant14	5570	Puncturing 20M	7	117.89
		5570	Puncturing 20M		19.09
	Ant10	5570	Puncturing 20M	8	138.30
	Ant14	5570	Puncturing 20M	8	138.24
	Ant10	5570	Puncturing 40M	1	118.21
	Ant14	5570	Puncturing 40M	1	118.42
	Ant10	5570	Puncturing 40M	2	38.20
		5570	Puncturing 40M		78.32
	Ant14	5570	Puncturing 40M	2	38.31
		5570	Puncturing 40M		78.35
	Ant10	5570	Puncturing 40M	3	78.14
		5570	Puncturing 40M		38.14
	Ant14	5570	Puncturing 40M	3	78.28
		5570	Puncturing 40M		38.46
	Ant10	5570	Puncturing 40M	4	118.35
	Ant14	5570	Puncturing 40M	4	118.28

11BE160MIMO_Ant14_5250_ Puncturing 20M_5

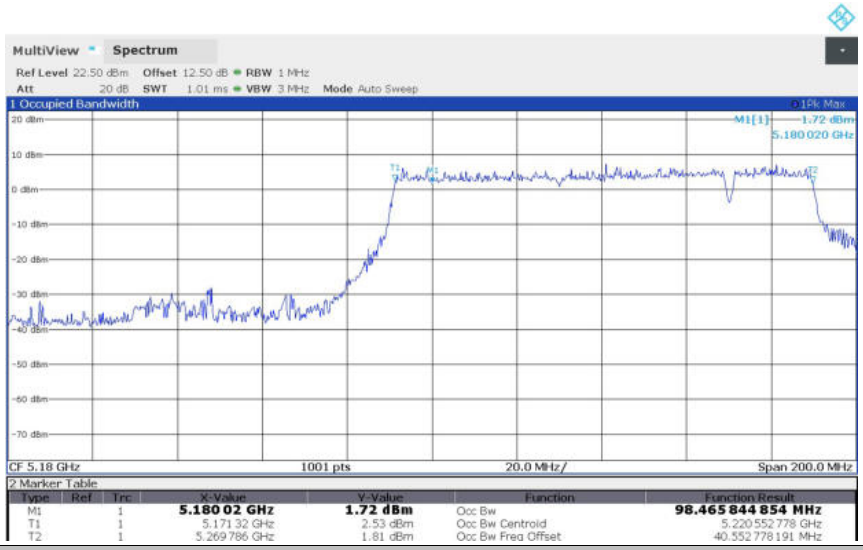


11BE160MIMO_Ant14_5250_ Puncturing 20M_5

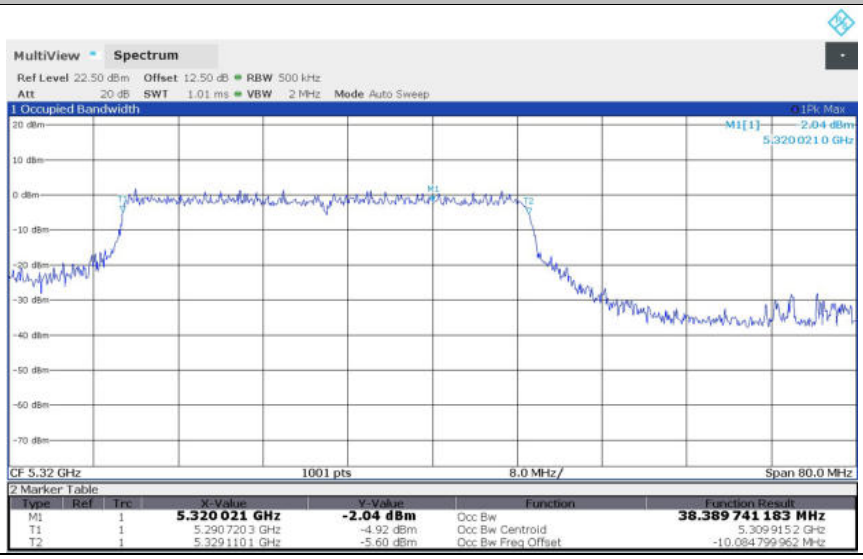
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5250_ Puncturing 20M_6

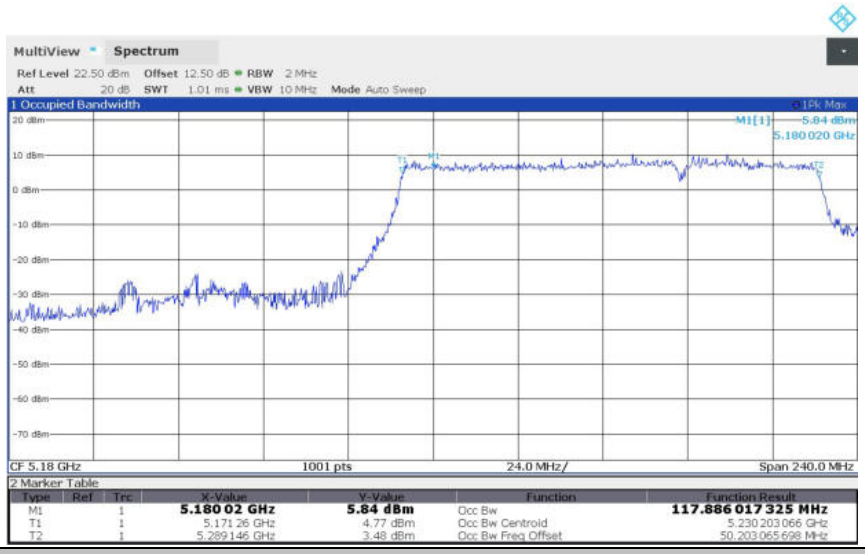


11BE160MIMO_Ant14_5250_ Puncturing 20M_6

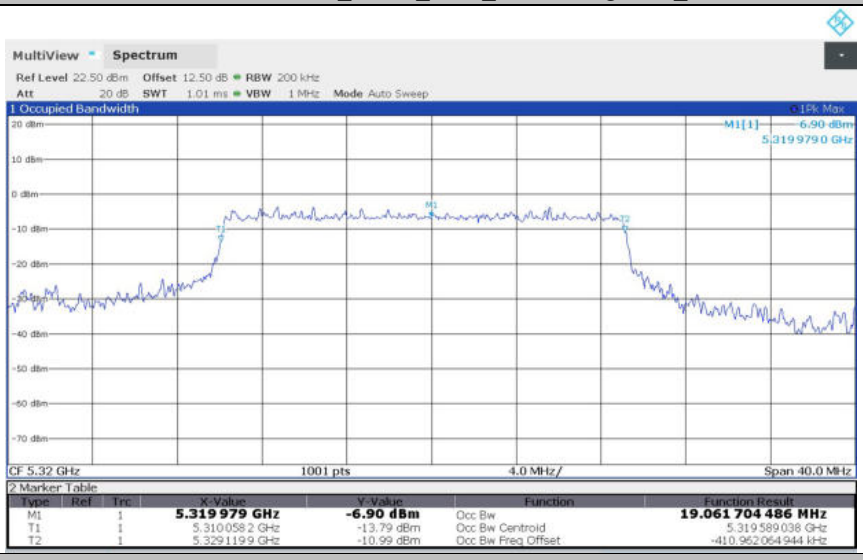


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5250_ Puncturing 20M_7

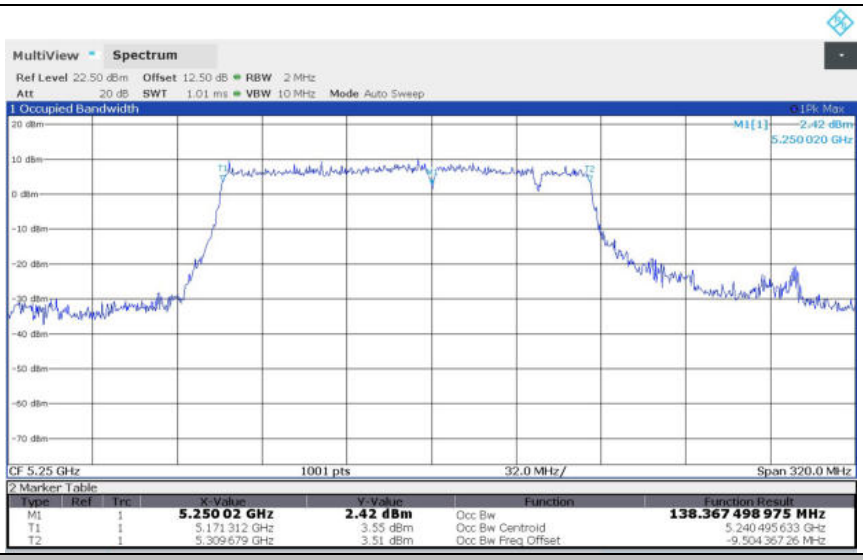


11BE160MIMO_Ant14_5250_ Puncturing 20M_7

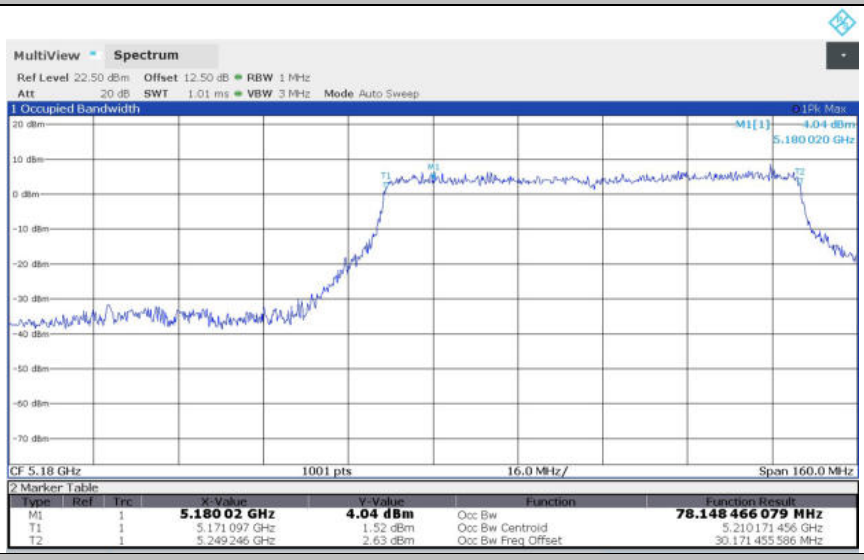


11BE160MIMO_Ant14_5250_ Puncturing 20M_8

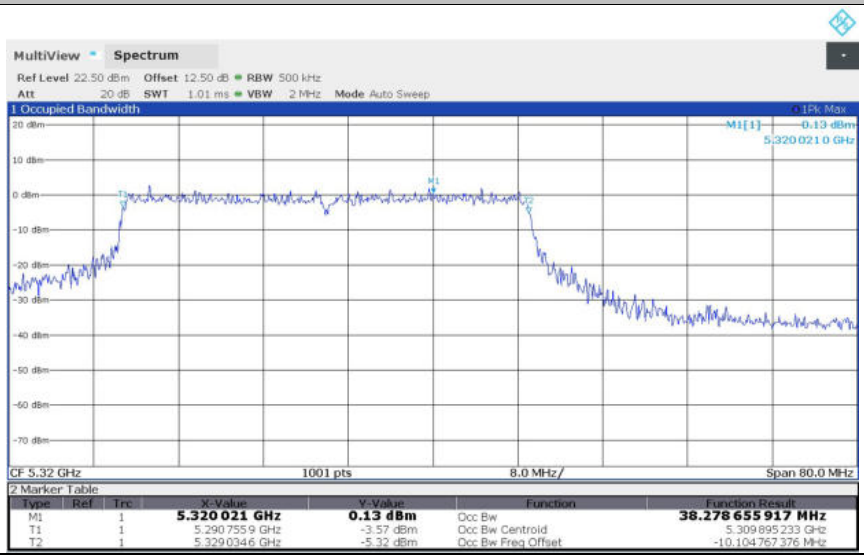
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5250_ Puncturing 40M_3

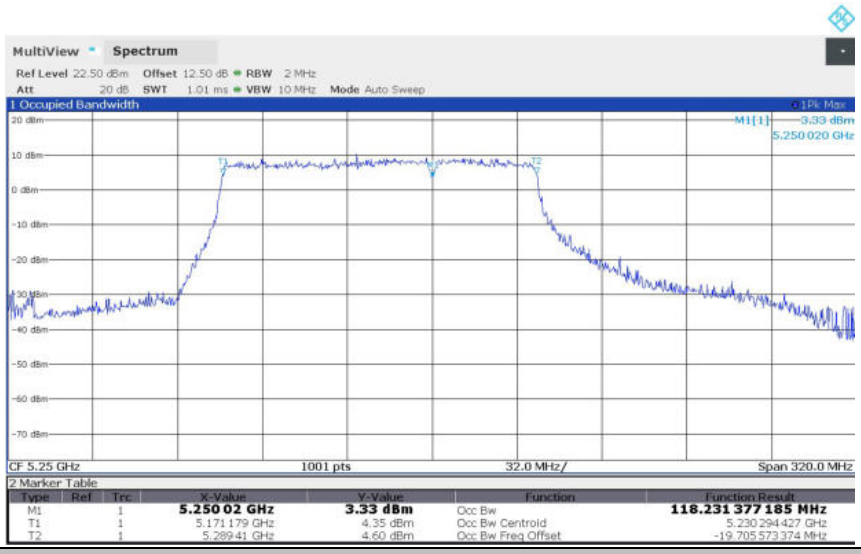


11BE160MIMO_Ant14_5250_ Puncturing 40M_3

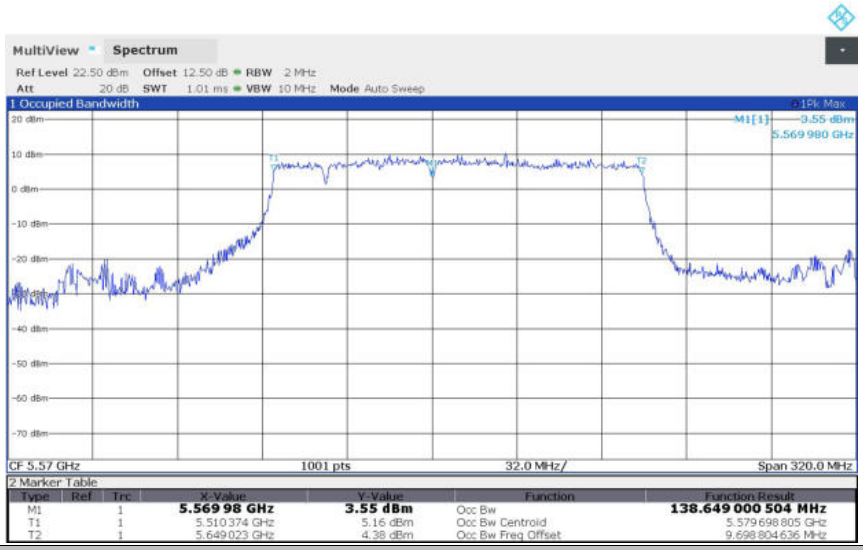


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5250_ Puncturing 40M_4

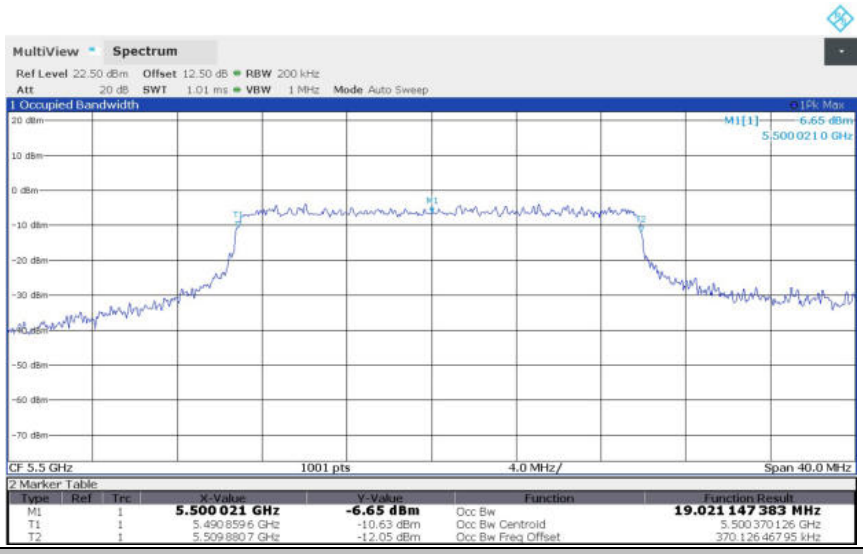


11BE160MIMO_Ant14_5570_ Puncturing 20M_1

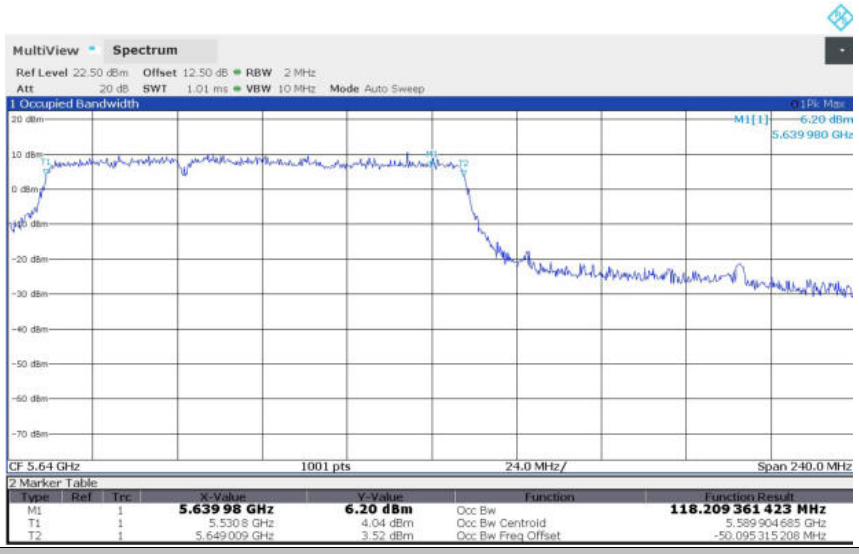


11BE160MIMO_Ant14_5570_ Puncturing 20M_2

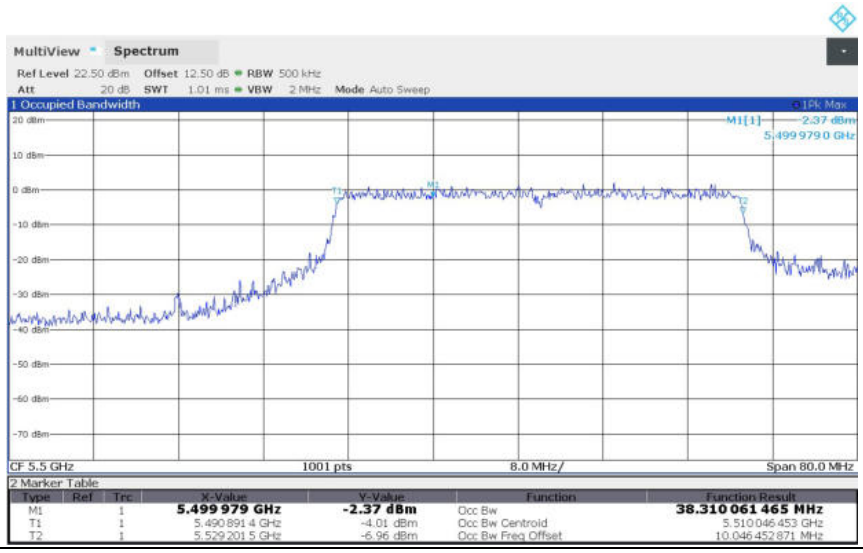
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5570_ Puncturing 20M_2

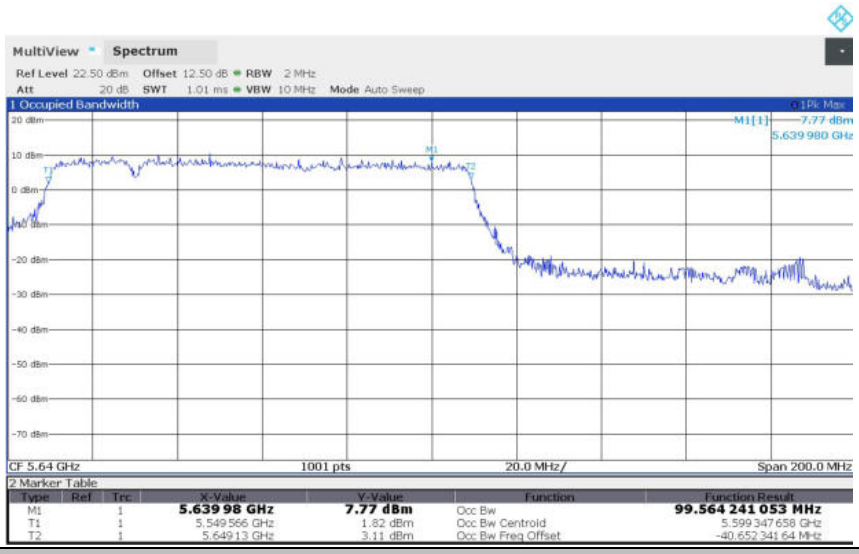


11BE160MIMO_Ant14_5570_ Puncturing 20M_3



©Copyright. All rights reserved by CTTL.

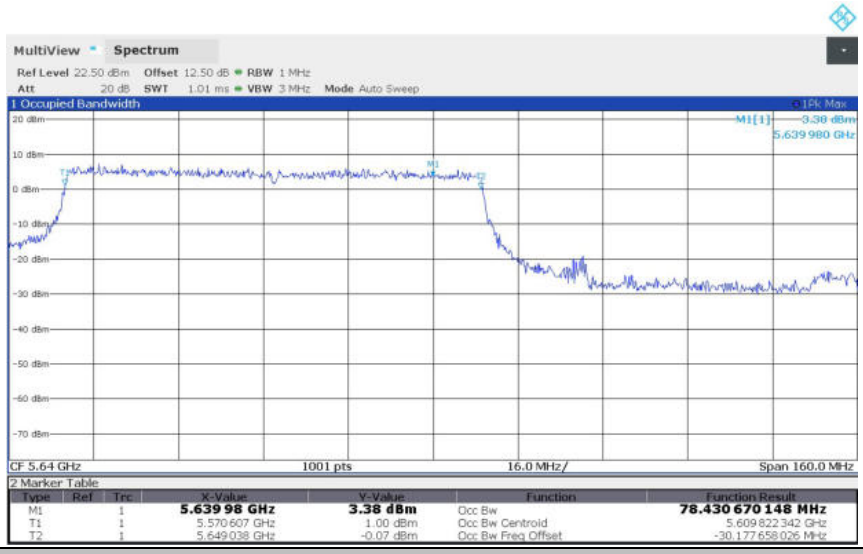
11BE160MIMO_Ant14_5570_ Puncturing 20M_3



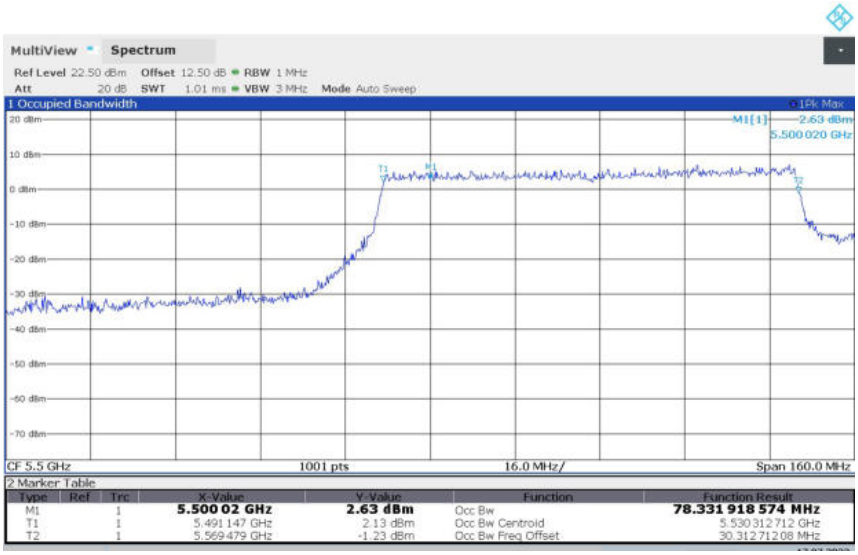
11BE160MIMO_Ant14_5570_ Puncturing 20M_4

11BE160MIMO_Ant14_5570_ Puncturing 20M_4

©Copyright. All rights reserved by CTTL.

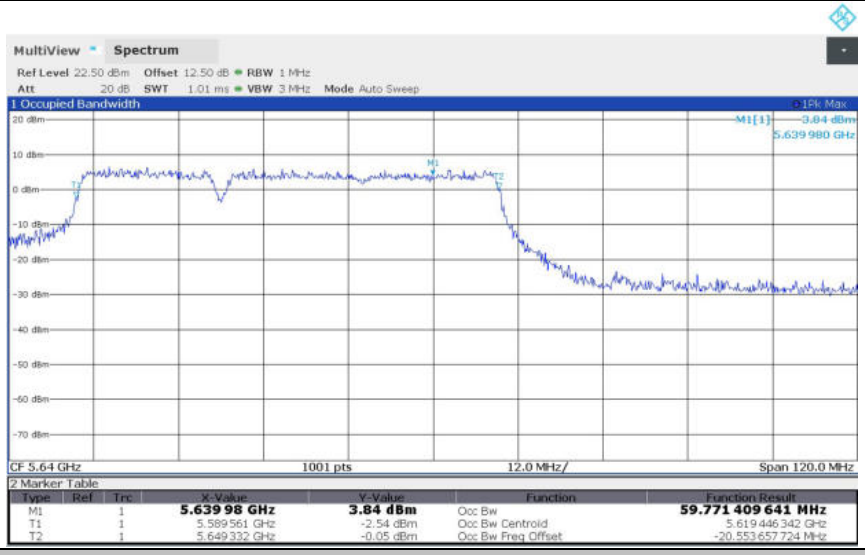


11BE160MIMO_Ant14_5570_ Puncturing 20M_5

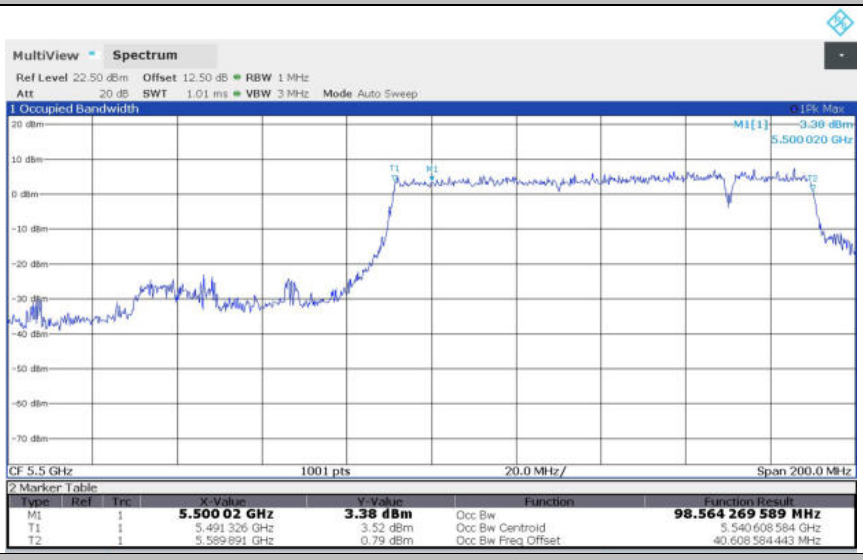


11BE160MIMO_Ant14_5570_ Puncturing 20M_5

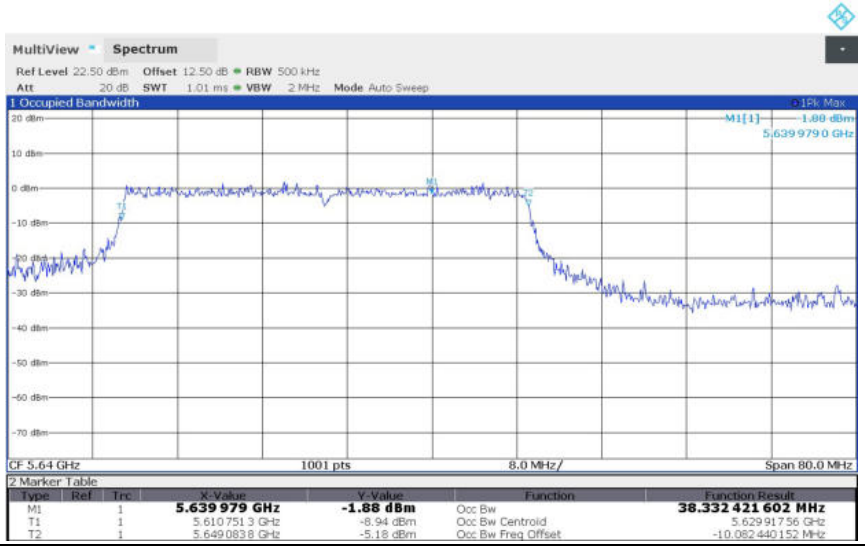
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5570_ Puncturing 20M_6



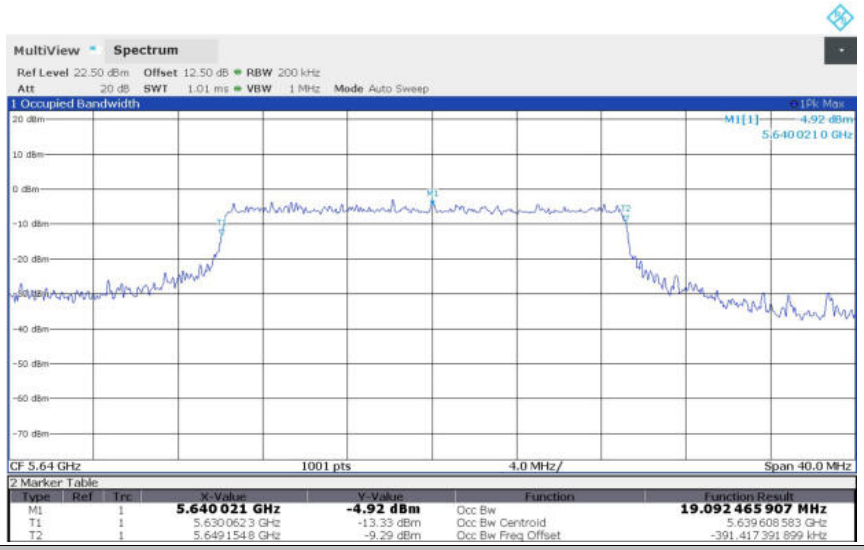
11BE160MIMO_Ant14_5570_ Puncturing 20M_6



©Copyright. All rights reserved by CTTL.

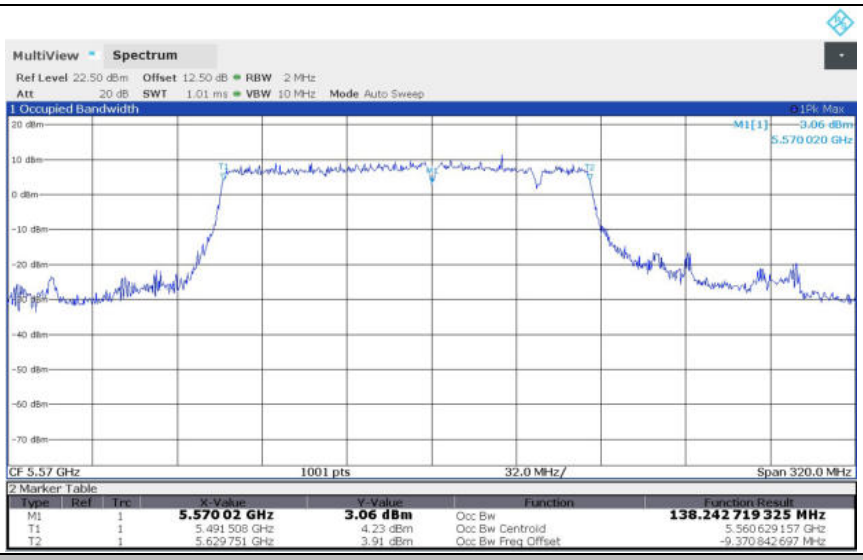
11BE160MIMO_Ant14_5570_ Puncturing 20M_7

11BE160MIMO_Ant14_5570_ Puncturing 20M_7

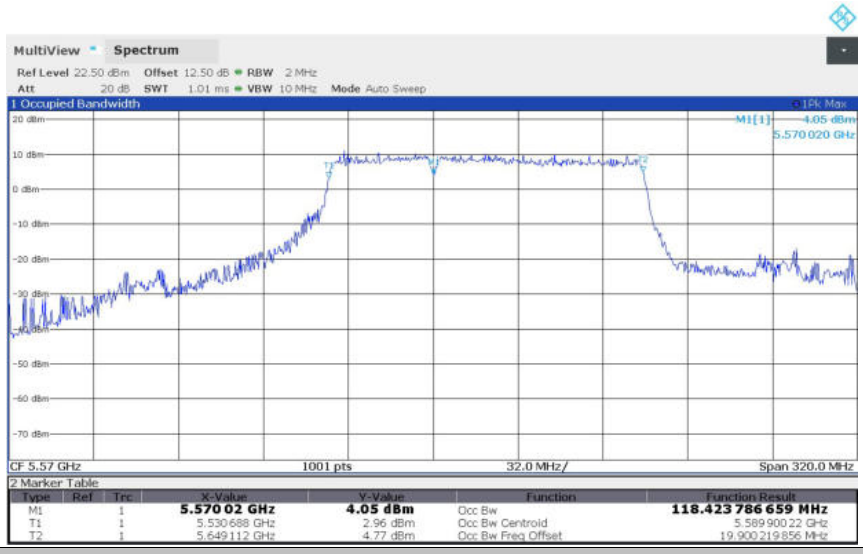


11BE160MIMO_Ant14_5570_ Puncturing 20M_8

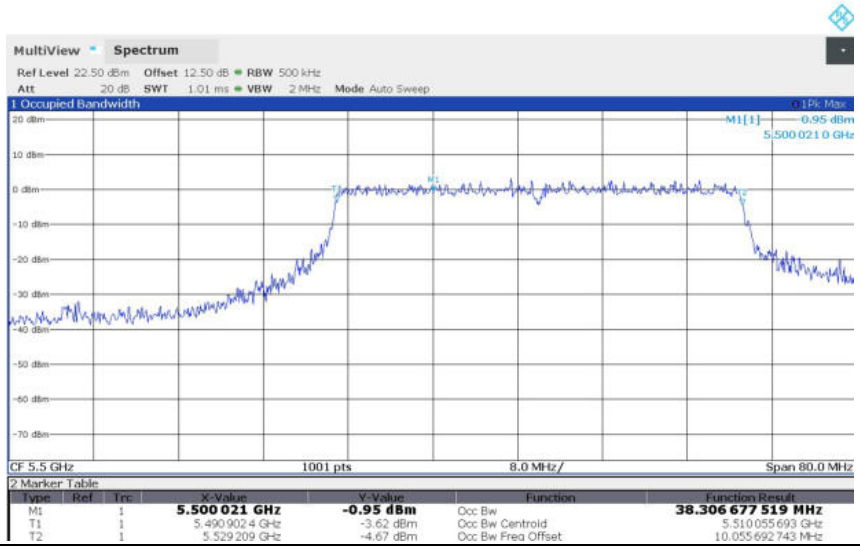
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5570_ Puncturing 40M_1

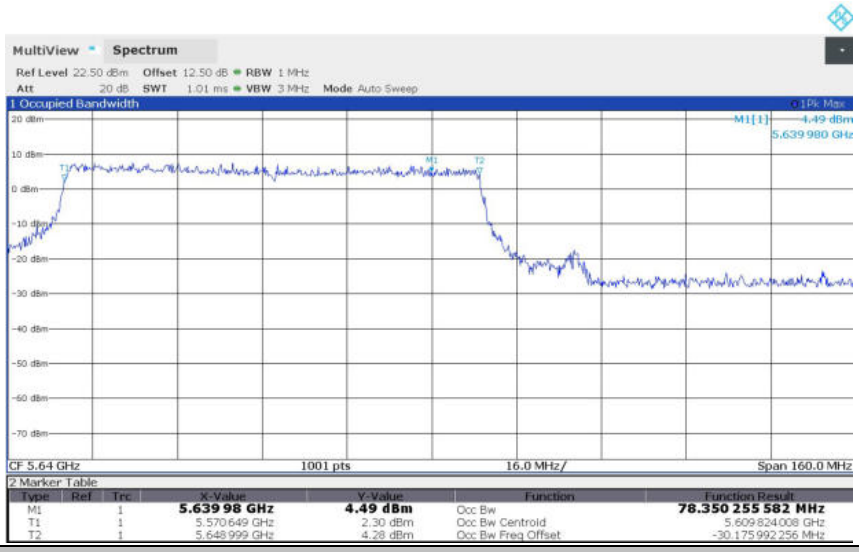


11BE160MIMO_Ant14_5570_ Puncturing 40M_2

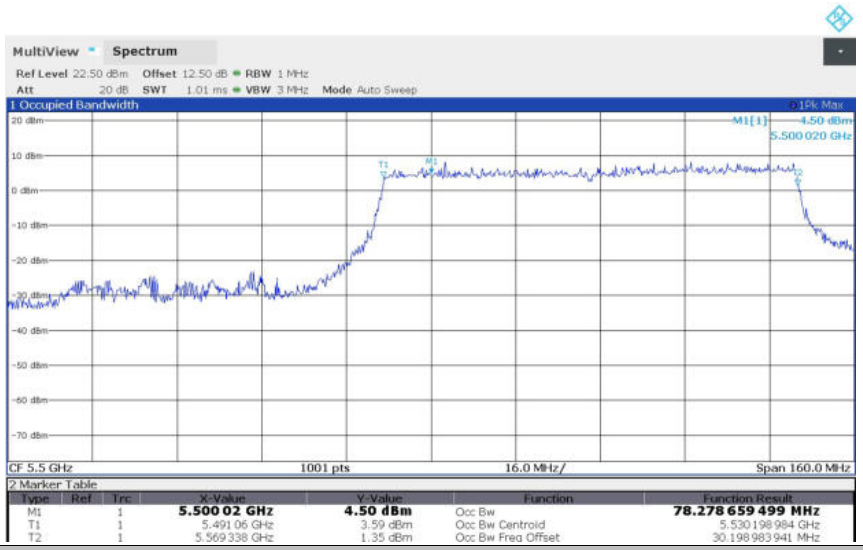


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5570_ Puncturing 40M_2

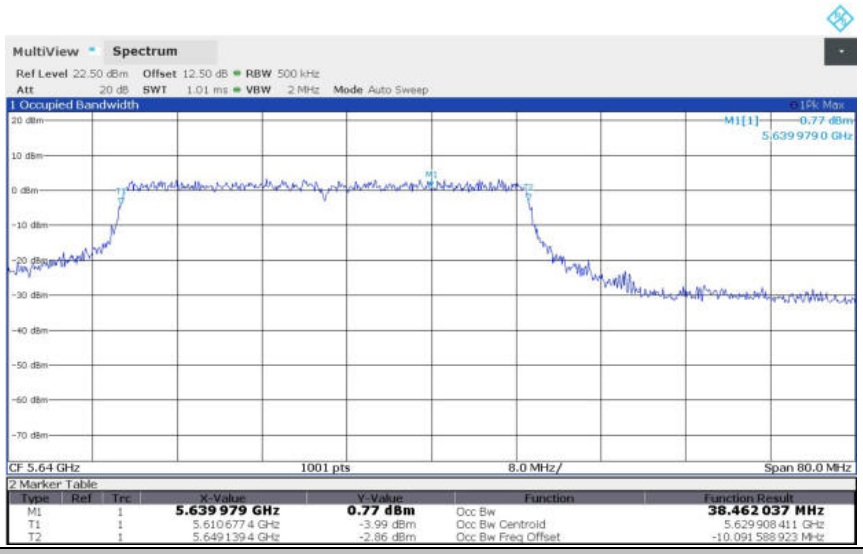


11BE160MIMO_Ant14_5570_ Puncturing 40M_3

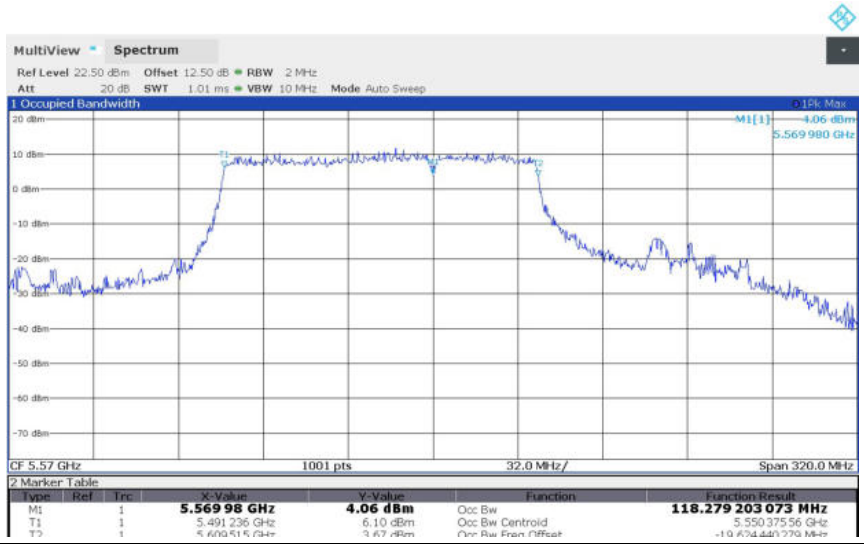


11BE160MIMO_Ant14_5570_ Puncturing 40M_3

©Copyright. All rights reserved by CTTL.

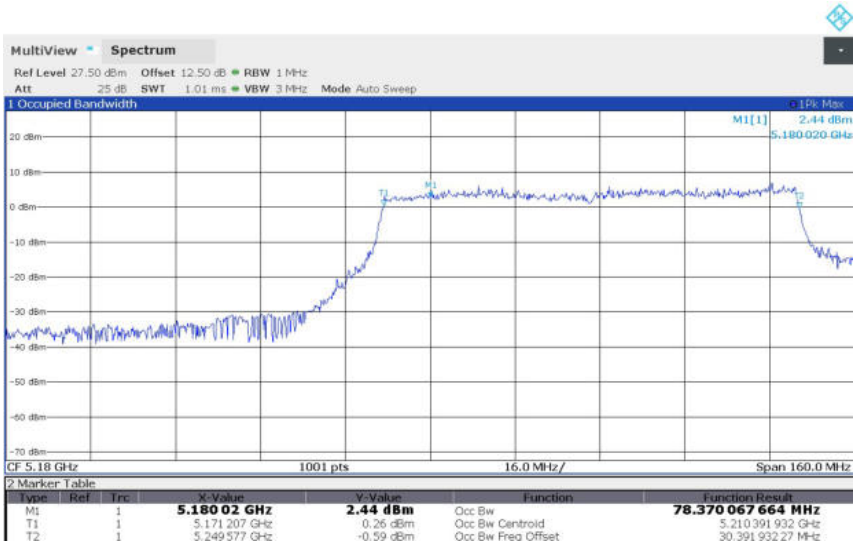


11BE160MIMO_Ant14_5570_ Puncturing 40M_4

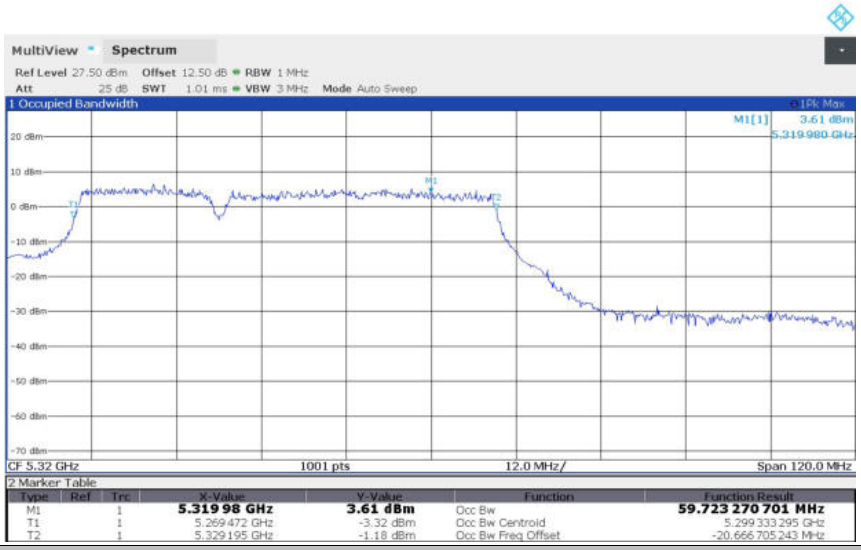


11BE160MIMO_Ant10_5250_ Puncturing 20M_5

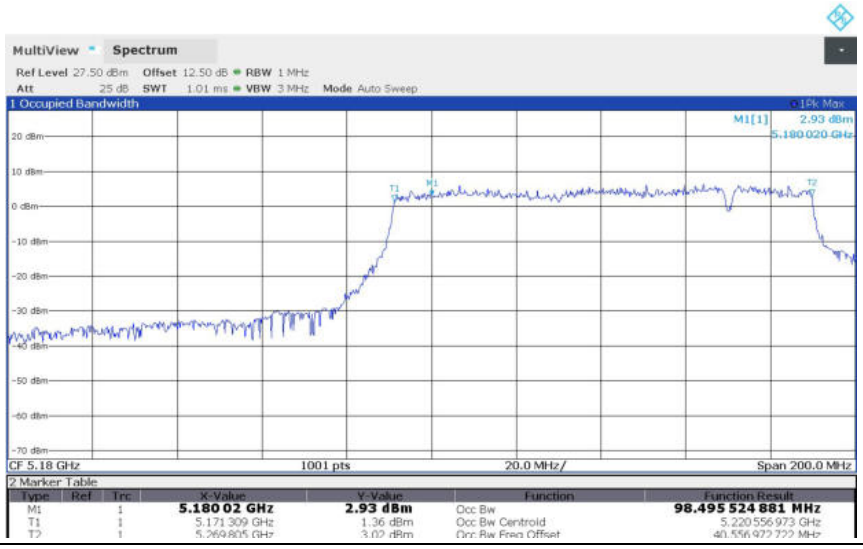
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5250_ Puncturing 20M_5

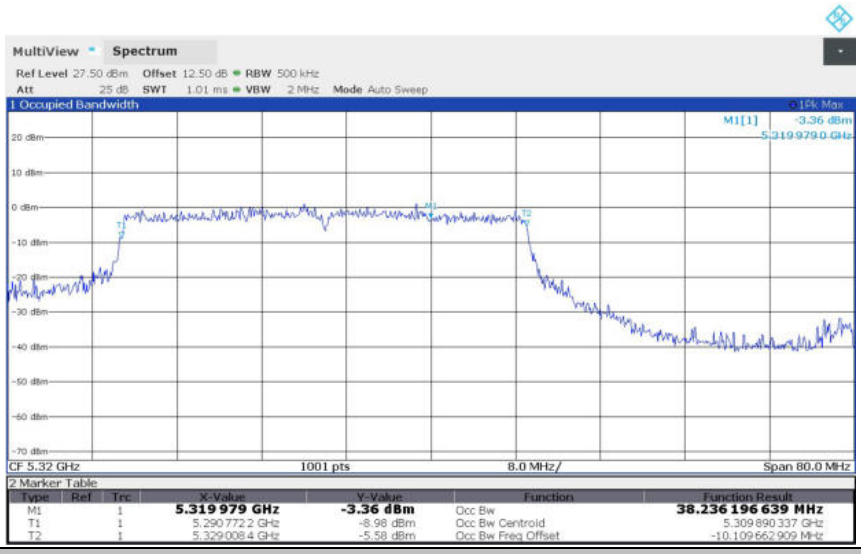


11BE160MIMO_Ant10_5250_ Puncturing 20M_6

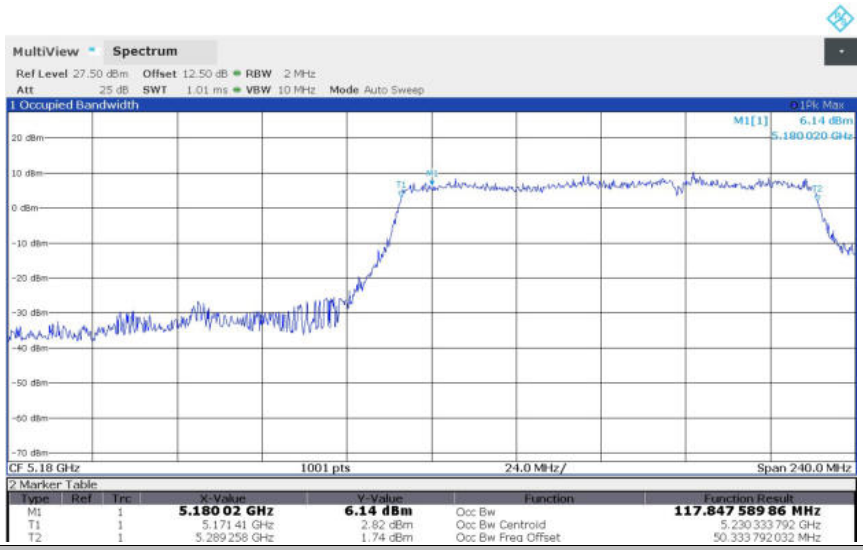


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant10_5250_ Puncturing 20M_6

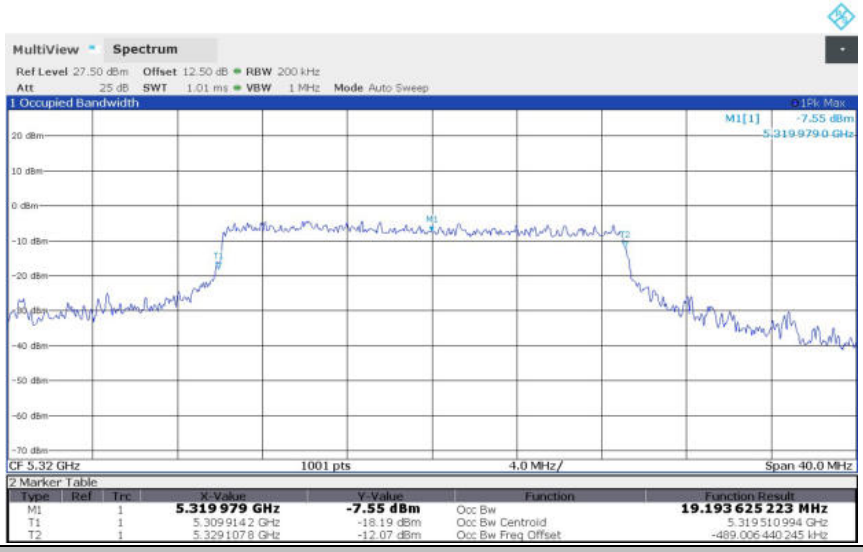


11BE160MIMO_Ant10_5250_ Puncturing 20M_7

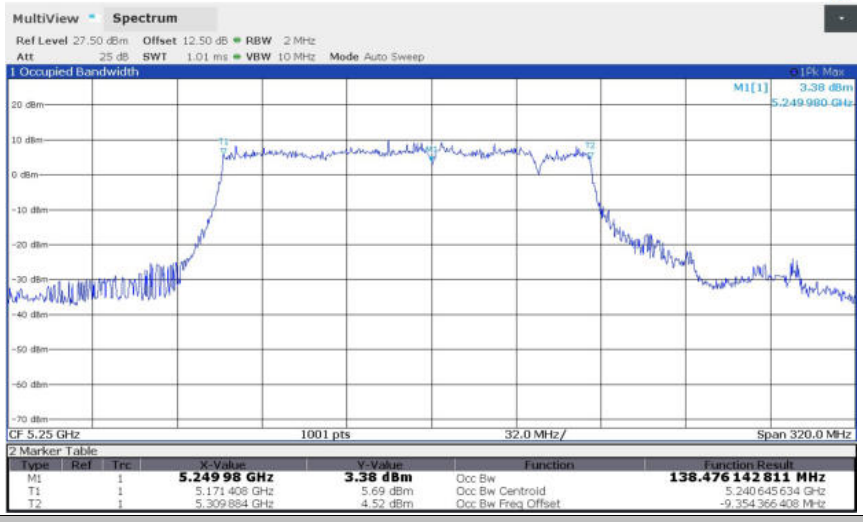


11BE160MIMO_Ant10_5250_ Puncturing 20M_7

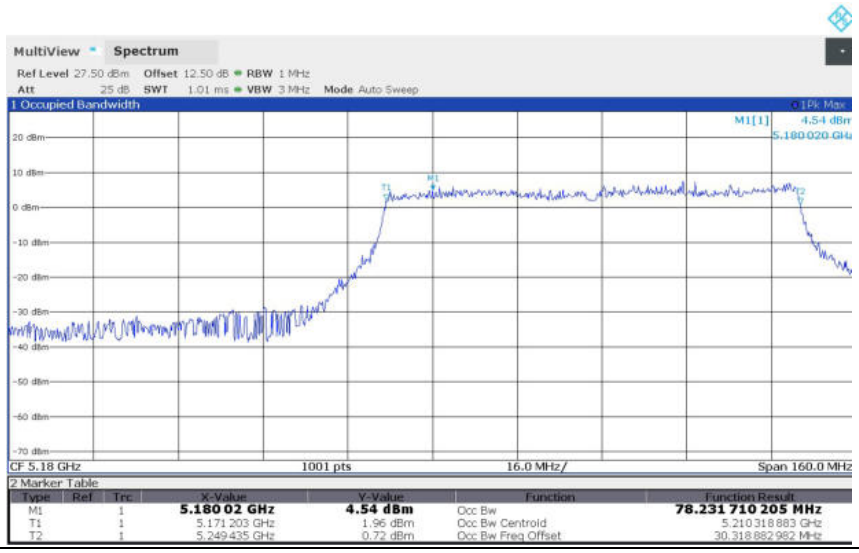
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5250_ Puncturing 20M_8

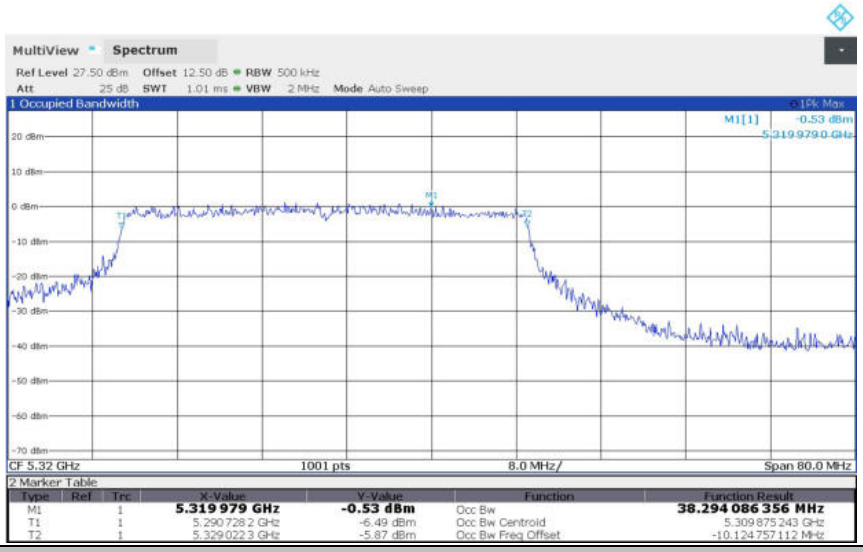


11BE160MIMO_Ant10_5250_ Puncturing 40M_3

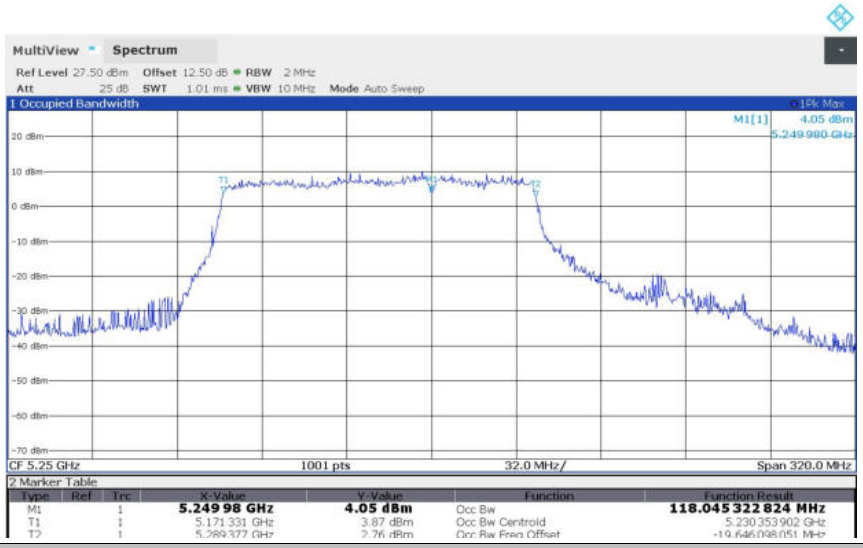


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant10_5250_ Puncturing 40M_3

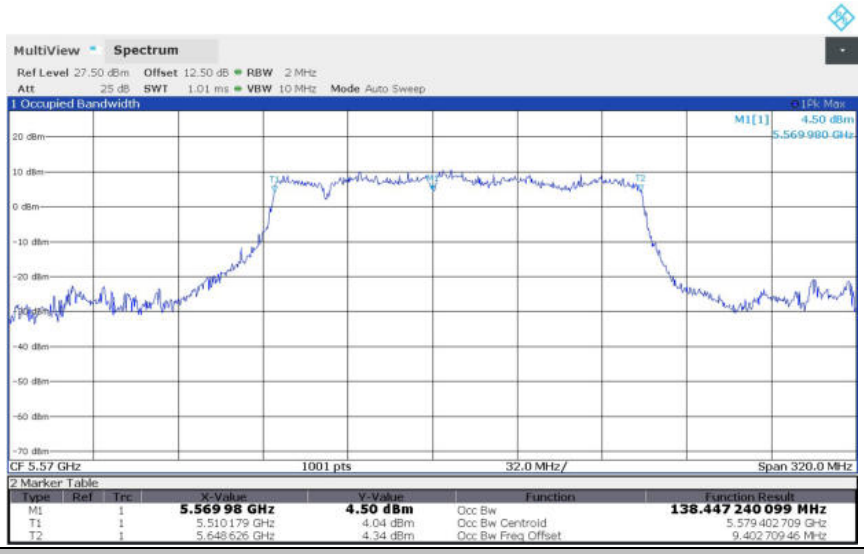


11BE160MIMO_Ant10_5250_ Puncturing 40M_4

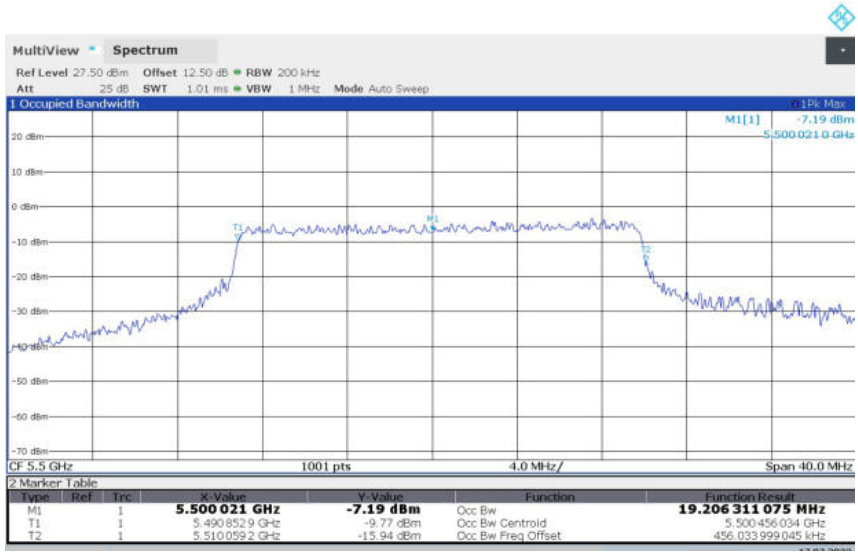


11BE160MIMO_Ant10_5570_ Puncturing 20M_1

©Copyright. All rights reserved by CTTL.

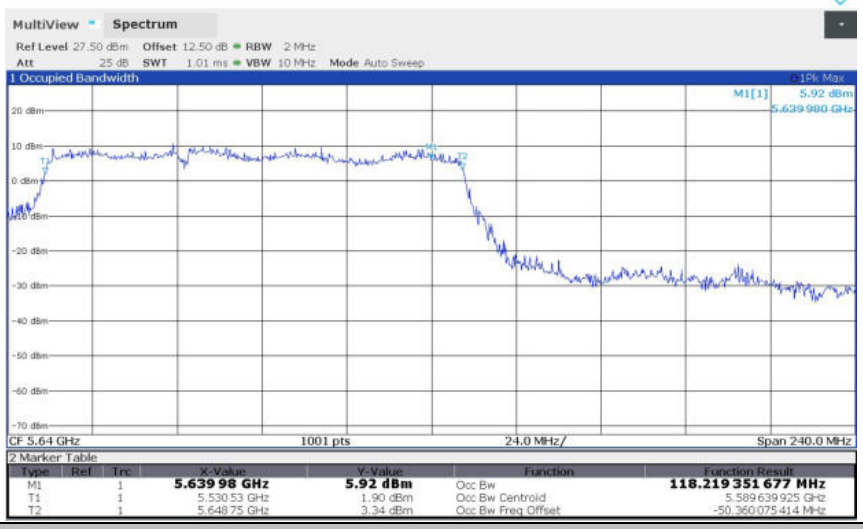


11BE160MIMO_Ant10_5570_ Puncturing 20M_2

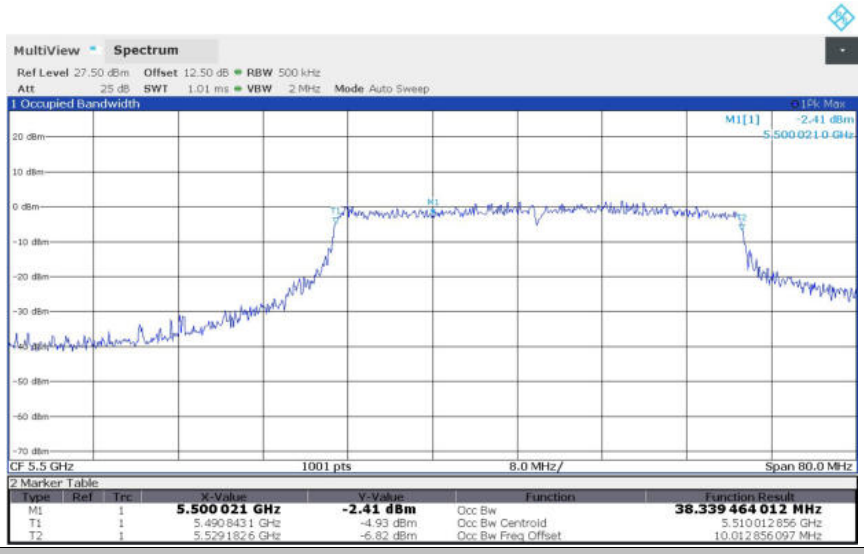


11BE160MIMO_Ant10_5570_ Puncturing 20M_2

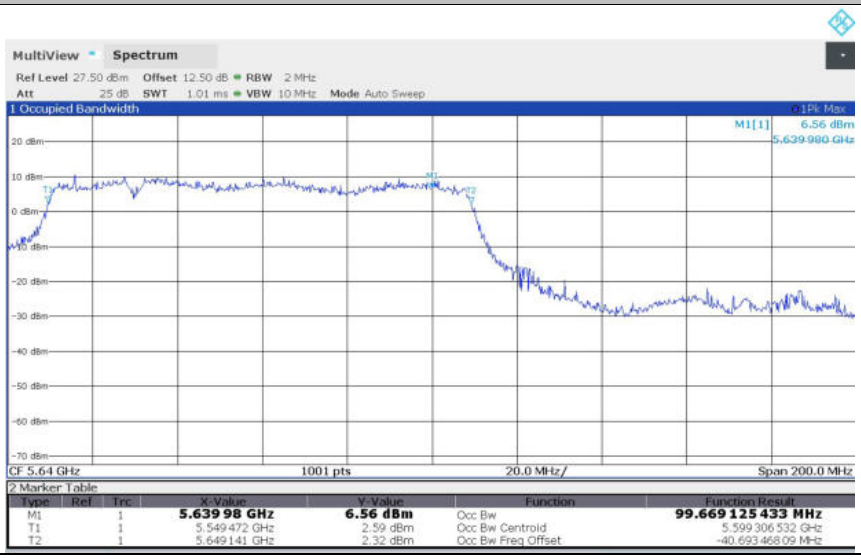
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5570_ Puncturing 20M_3

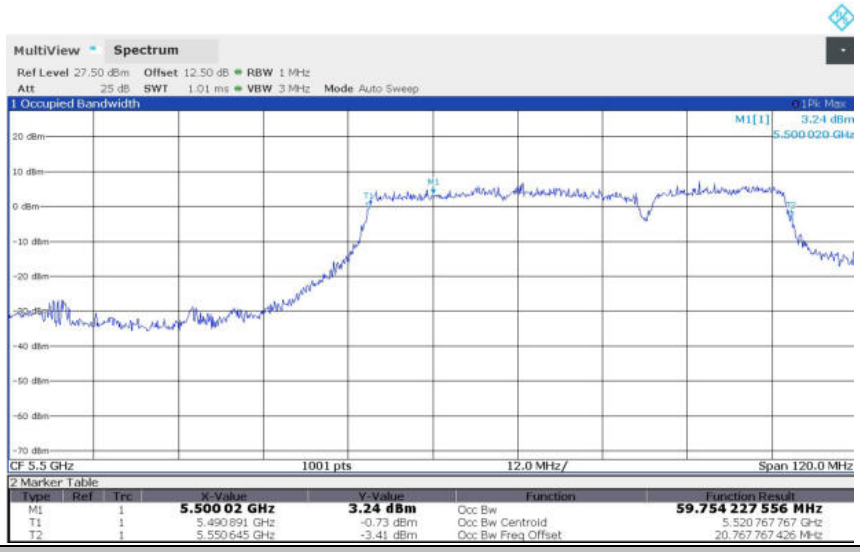


11BE160MIMO_Ant10_5570_ Puncturing 20M_3

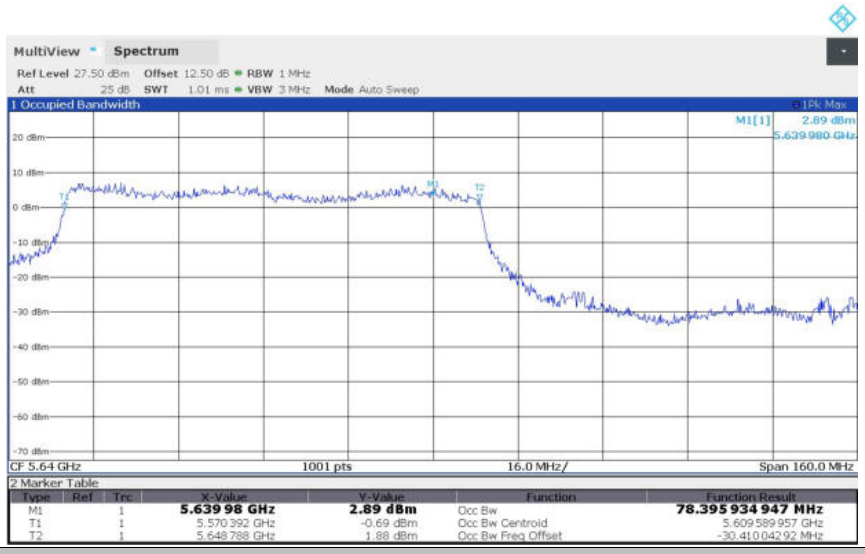


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant10_5570_ Puncturing 20M_4

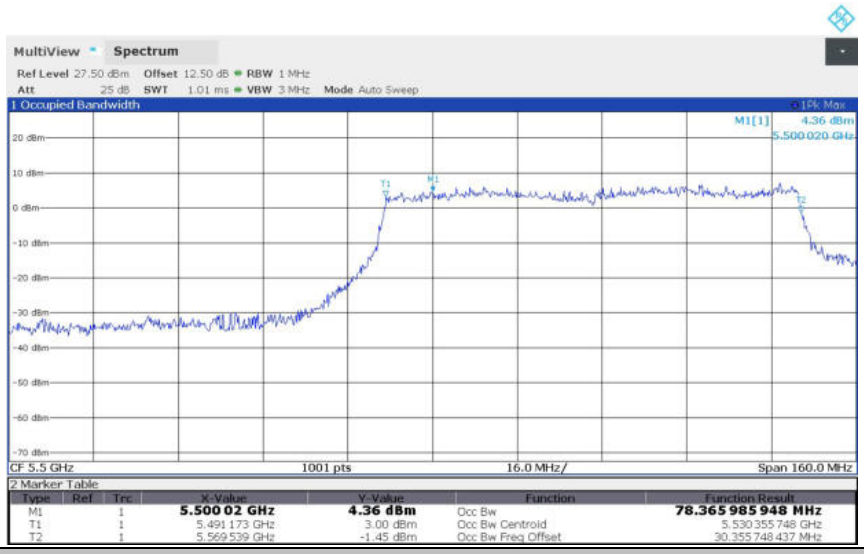


11BE160MIMO_Ant10_5570_ Puncturing 20M_4

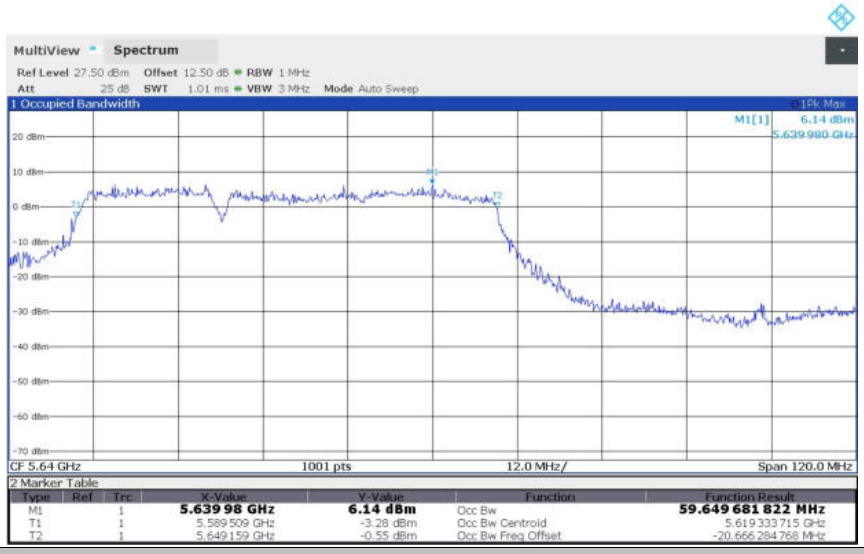


11BE160MIMO_Ant10_5570_ Puncturing 20M_5

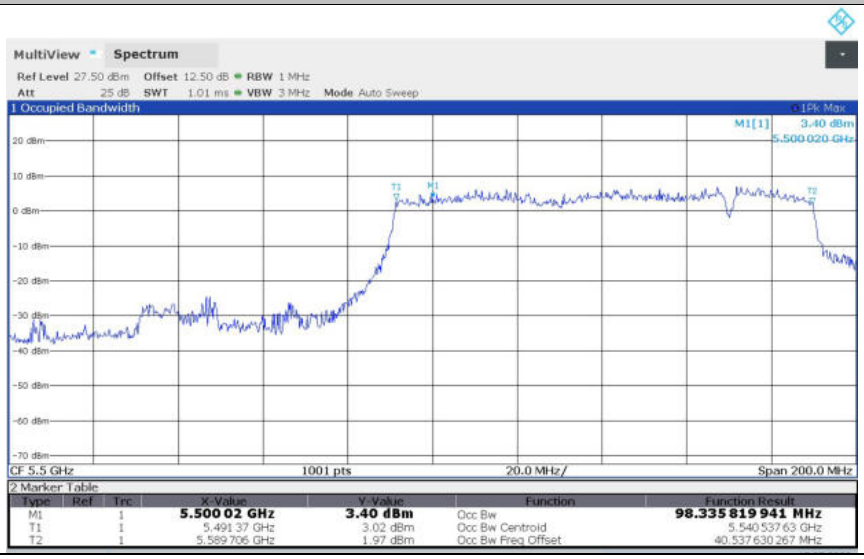
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5570_ Puncturing 20M_5

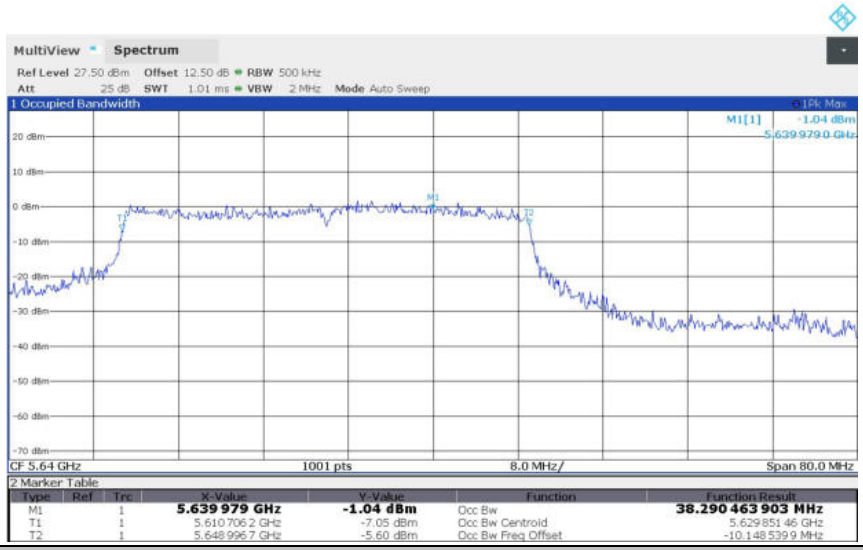


11BE160MIMO_Ant10_5570_ Puncturing 20M_6

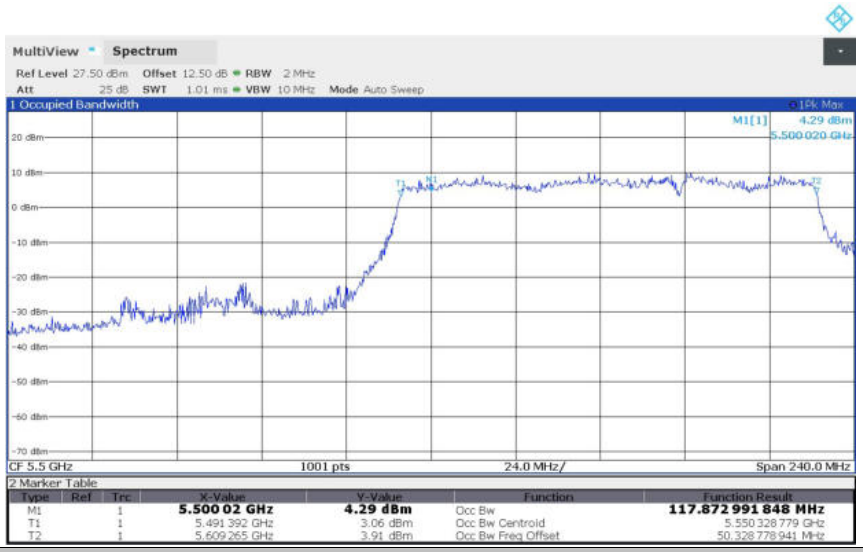


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant10_5570_ Puncturing 20M_6

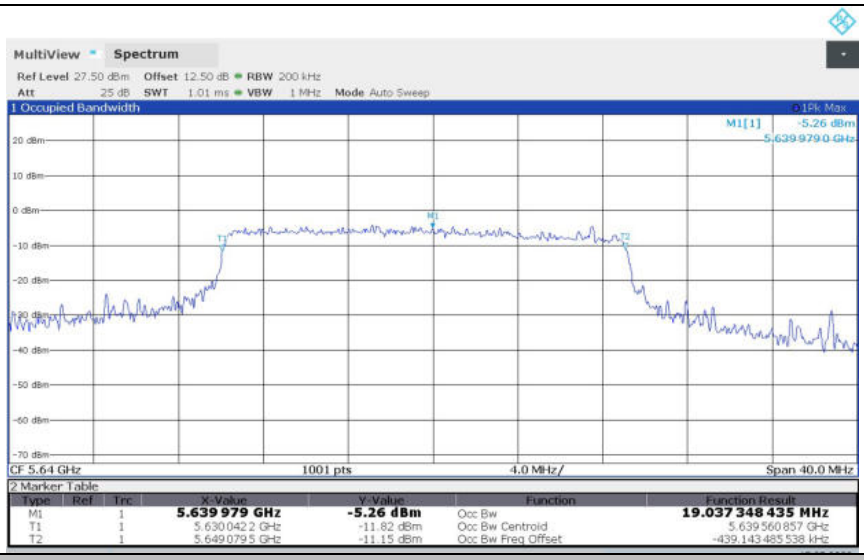


11BE160MIMO_Ant10_5570_ Puncturing 20M_7



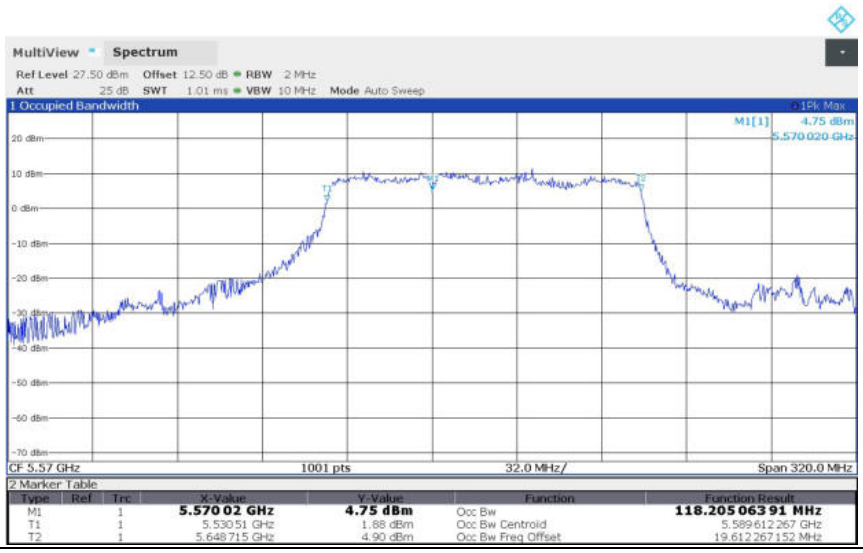
11BE160MIMO_Ant10_5570_ Puncturing 20M_7

©Copyright. All rights reserved by CTTL.



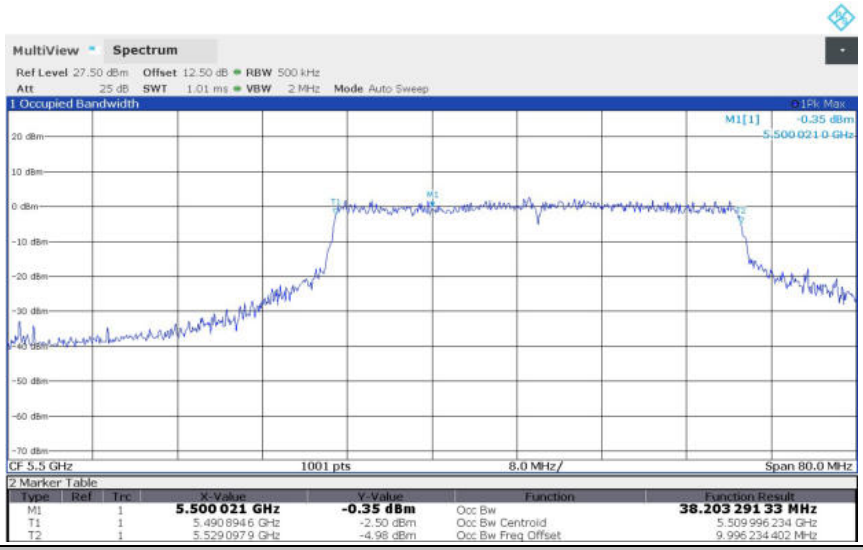
11BE160MIMO_Ant10_5570_ Puncturing 20M_8

11BE160MIMO_Ant10_5570_ Puncturing 40M_1



©Copyright. All rights reserved by CTTL.

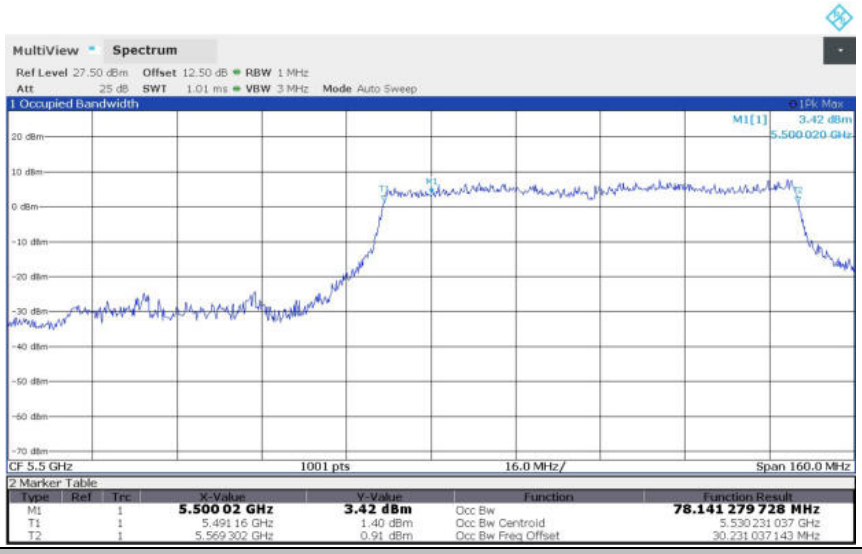
11BE160MIMO_Ant10_5570_ Puncturing 40M_2



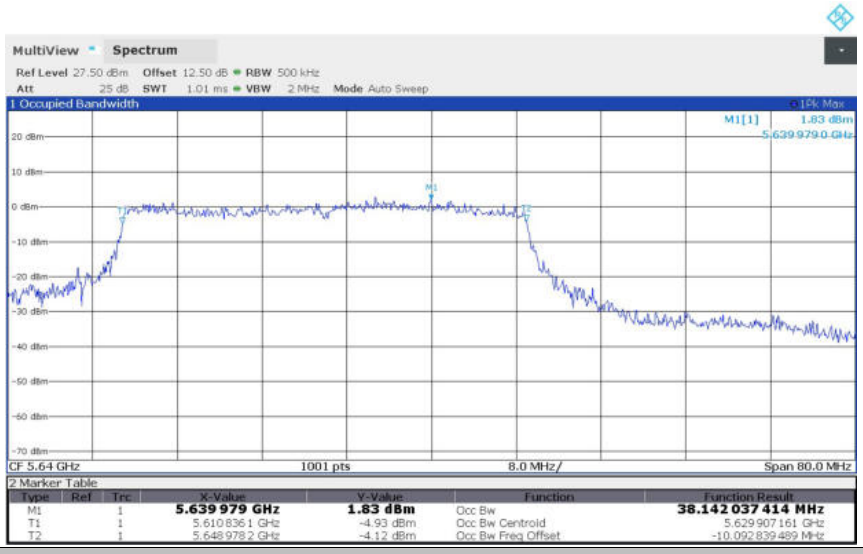
11BE160MIMO_Ant10_5570_ Puncturing 40M_2

11BE160MIMO_Ant10_5570_ Puncturing 40M_3

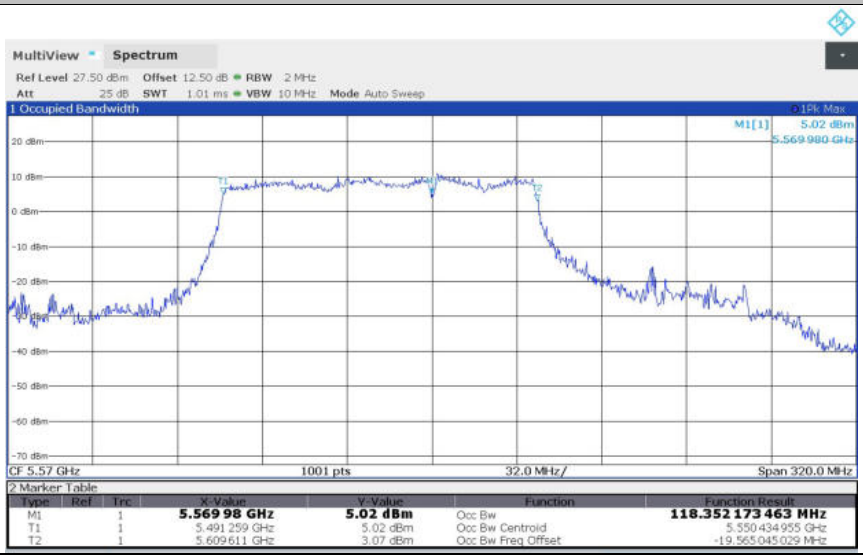
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5570_ Puncturing 40M_3



11BE160MIMO_Ant10_5570_ Puncturing 40M_4



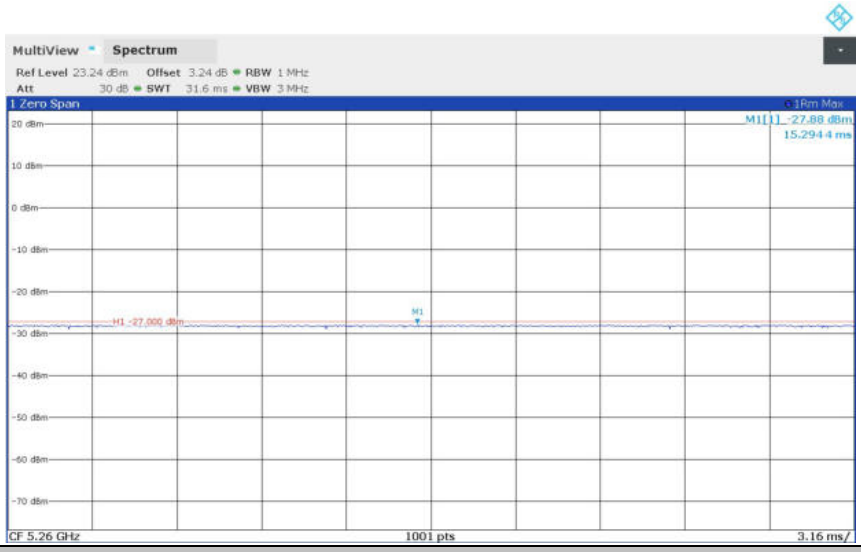
©Copyright. All rights reserved by CTTL.

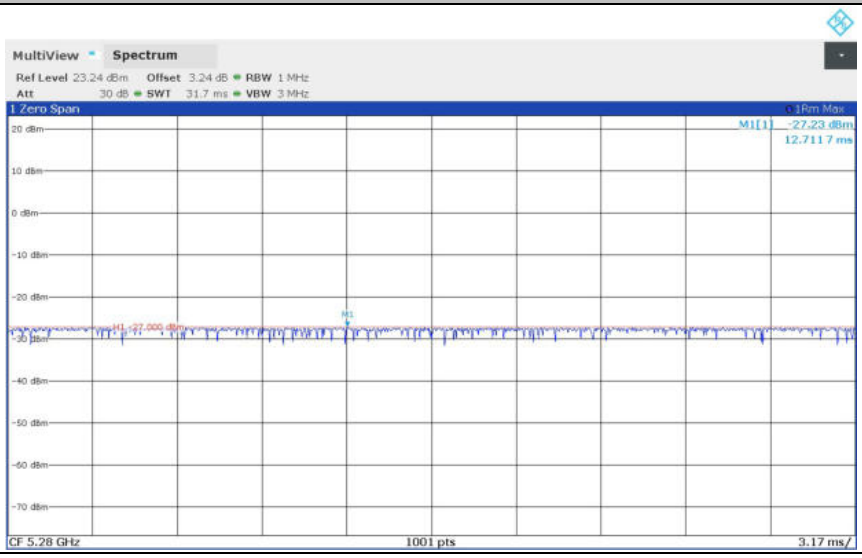
A.4.2 Punctured Channel E.I.R.P Check

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	9	-28.41	-27
			5260	15	-27.88	-27
		Puncturing20-configure-6	5280	9	-28.33	-27
			5280	15	-27.23	-27
		Puncturing20-configure-7	5300	9	-28.68	-27
			5300	15	-27.84	-27
		Puncturing20-configure-8	5320	9	-36.00	-27
			5320	15	-33.02	-27
		Puncturing40-configure-3	5270	9	-33.31	-27
			5270	15	-32.72	-27
		Puncturing40-configure-4	5310	9	-37.32	-27
			5310	15	-37.04	-27
	5570	Puncturing20-configure-1	5500	9	-31.10	-27
			5500	15	-31.66	-27
		Puncturing20-configure-2	5520	9	-27.14	-27
			5520	15	-27.66	-27
		Puncturing20-configure-3	5540	9	-27.09	-27
			5540	15	-27.51	-27
		Puncturing20-configure-4	5560	9	-29.34	-27
			5560	15	-30.98	-27
		Puncturing20-configure-5	5580	9	-27.49	-27
			5580	15	-27.35	-27
		Puncturing20-configure-6	5600	9	-27.81	-27
			5600	15	-28.99	-27
		Puncturing20-configure-7	5620	9	-28.93	-27
			5620	15	-29.98	-27
		Puncturing20-configure-8	5640	9	-33.76	-27
			5640	15	-35.29	-27
		Puncturing40-configure-1	5510	9	-36.35	-27
			5510	15	-34.68	-27
		Puncturing40-configure-2	5550	9	-34.13	-27
			5550	15	-33.22	-27
		Puncturing40-configure-3	5590	9	-31.43	-27
			5590	15	-29.31	-27
		Puncturing40-configure-4	5630	9	-35.59	-27
			5630	15	-34.61	-27

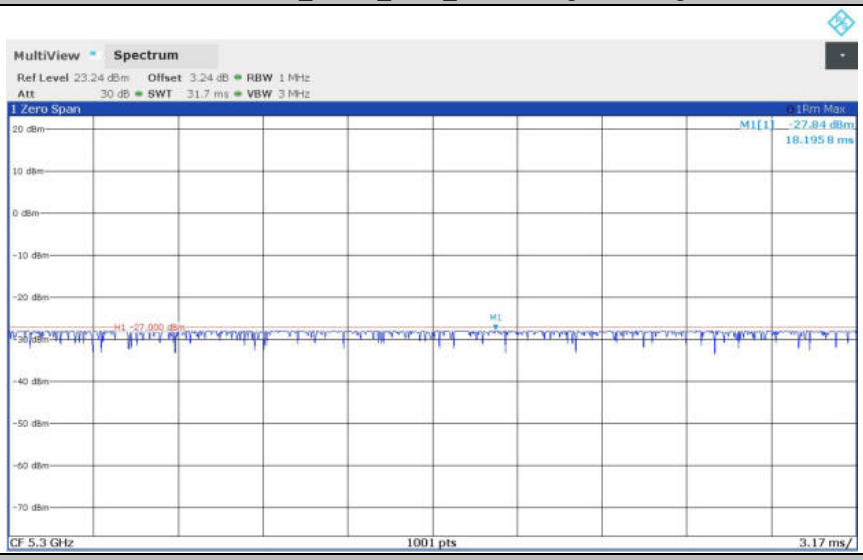
©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5250_ Puncturing20- configure-5


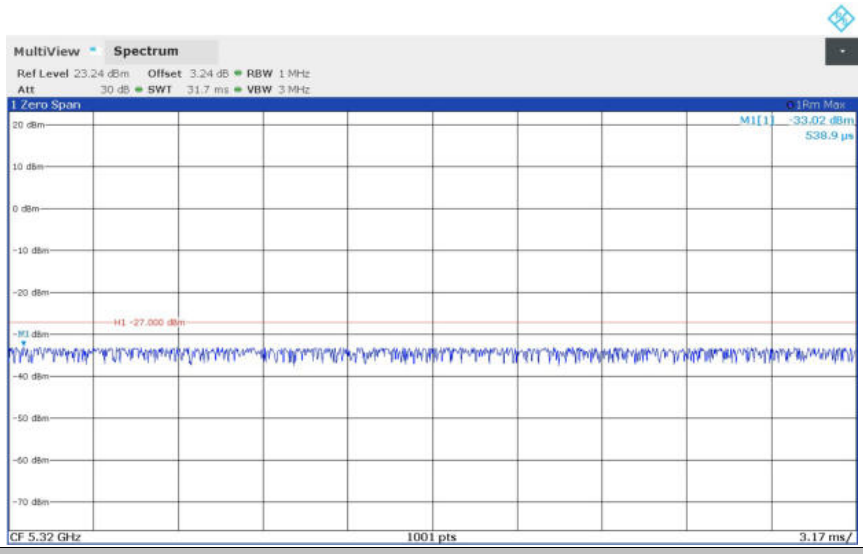
11BE160MIMO_Ant14_5250_ Puncturing20- configure-6


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5250_ Puncturing20- configure-7

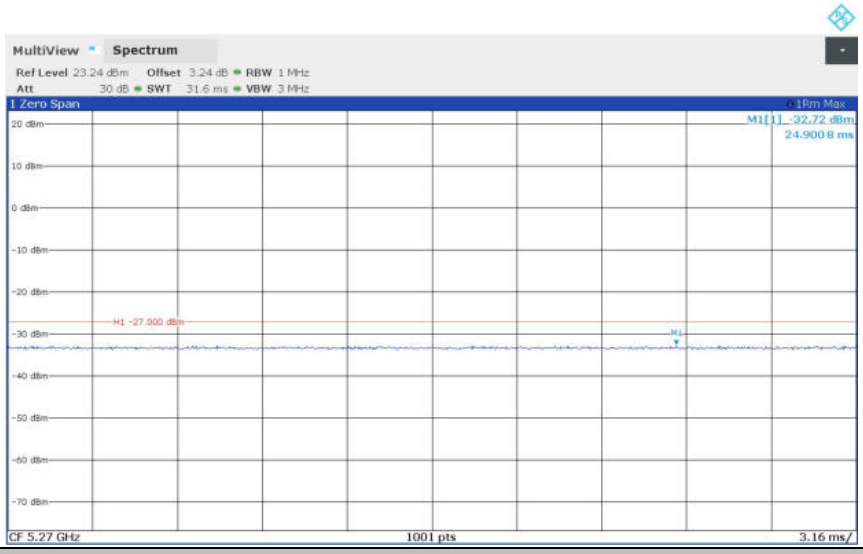


11BE160MIMO_Ant14_5250_ Puncturing20- configure-8

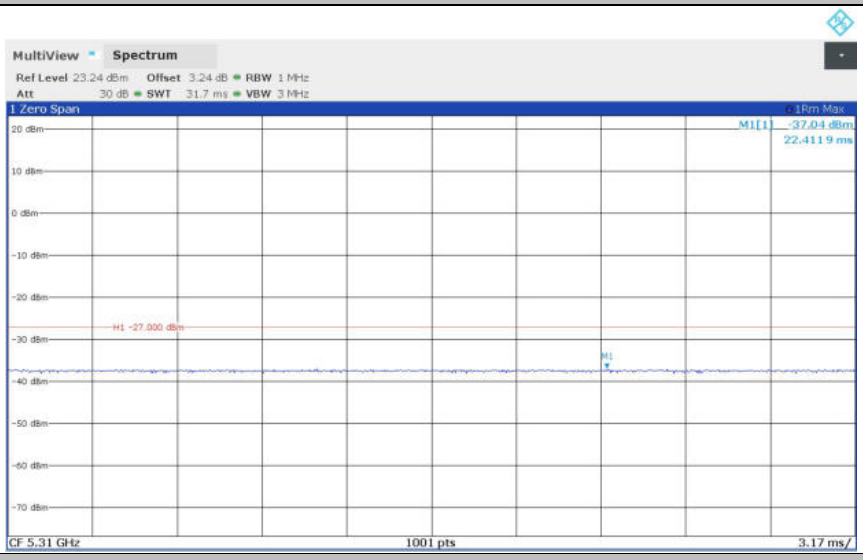


11BE160MIMO_Ant14_5250_ Puncturing40- configure-3

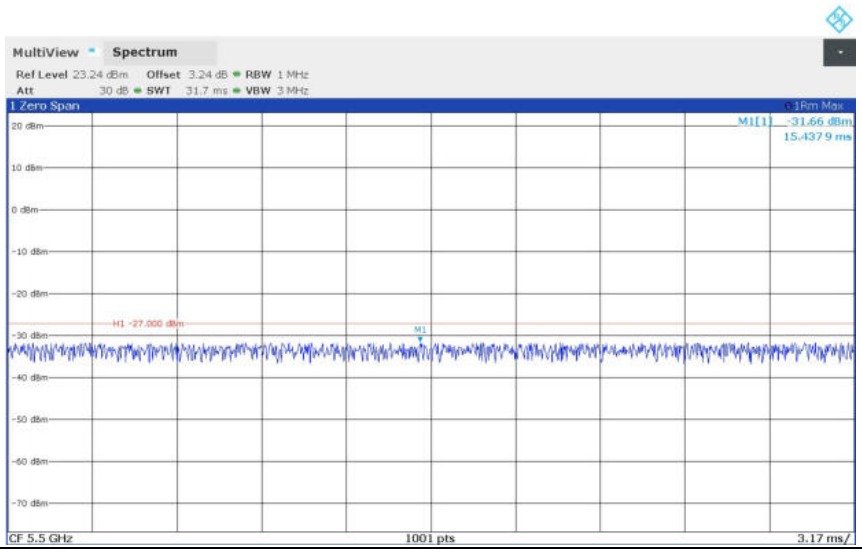
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5250_ Puncturing40- configure-4

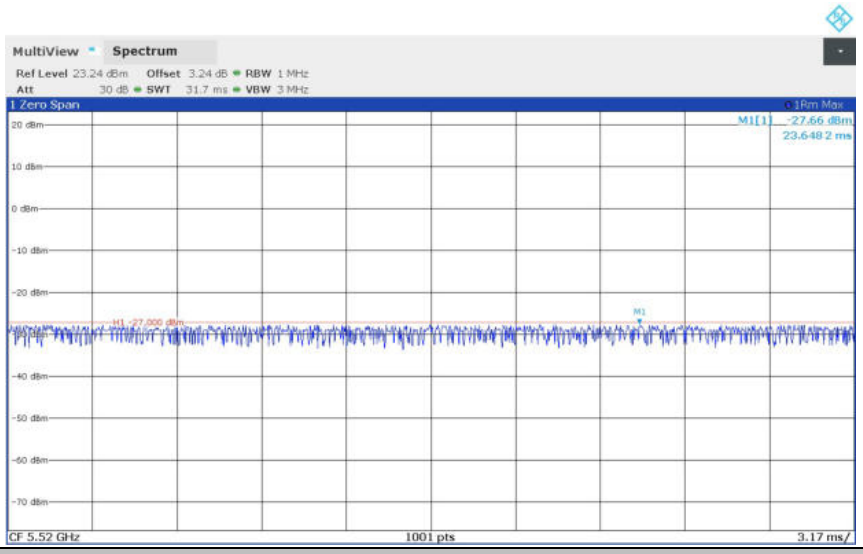


11BE160MIMO_Ant14_5570_ Puncturing20- configure-1

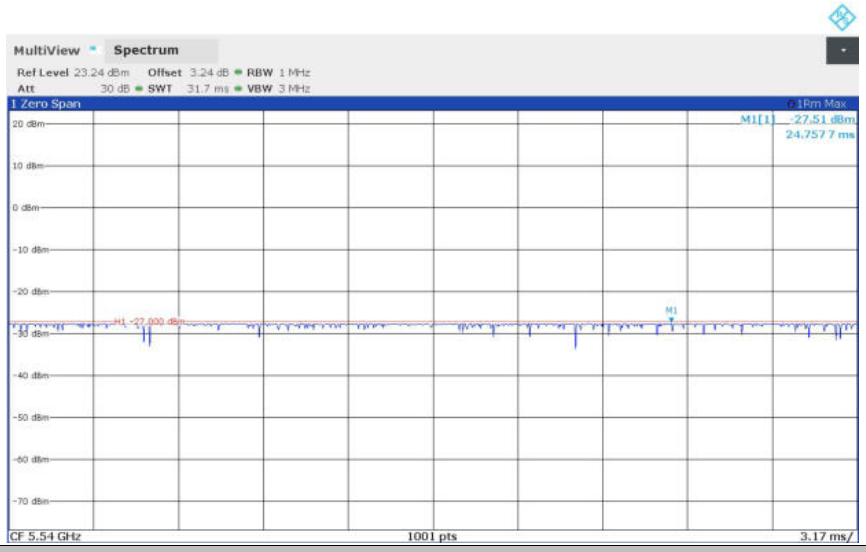


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5570_ Puncturing20- configure-2

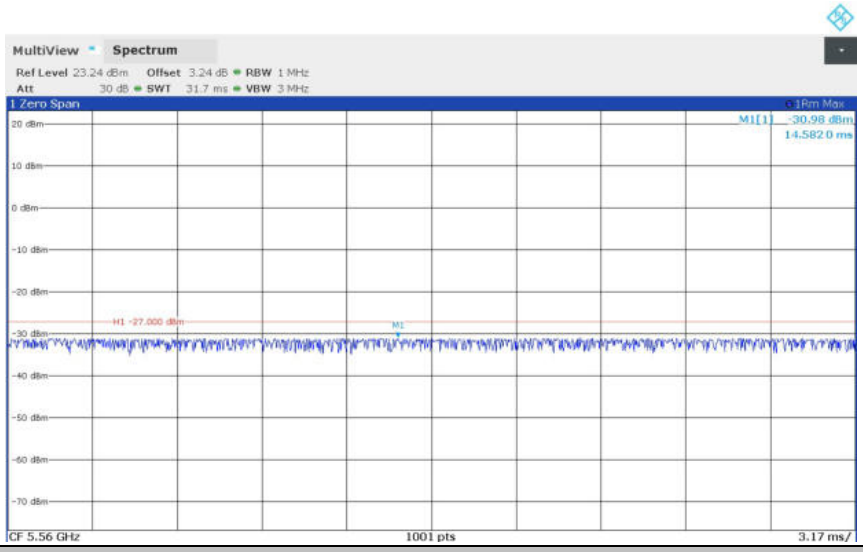


11BE160MIMO_Ant14_5570_ Puncturing20- configure-3

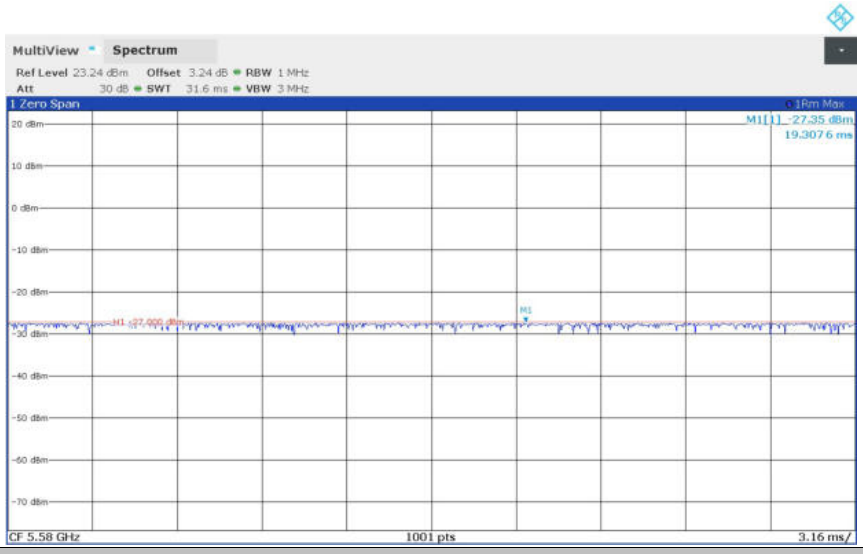


11BE160MIMO_Ant14_5570_ Puncturing20- configure-4

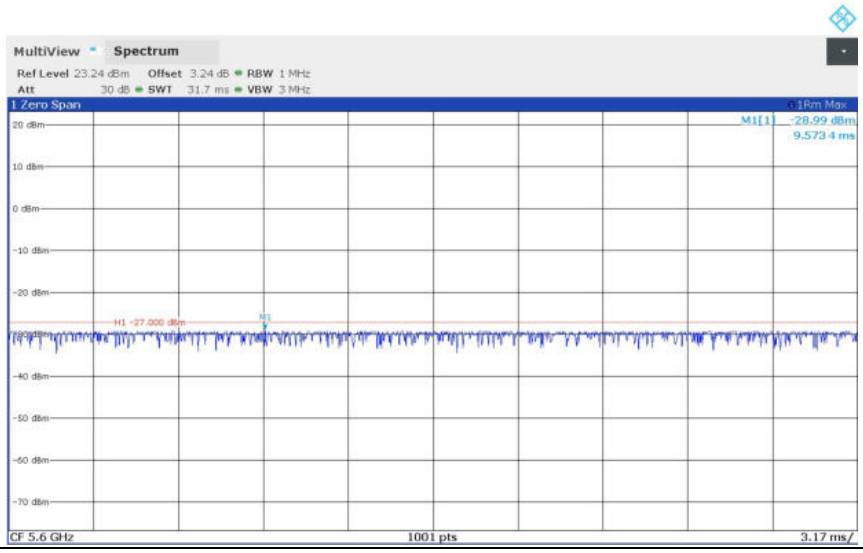
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5570_ Puncturing20- configure-5

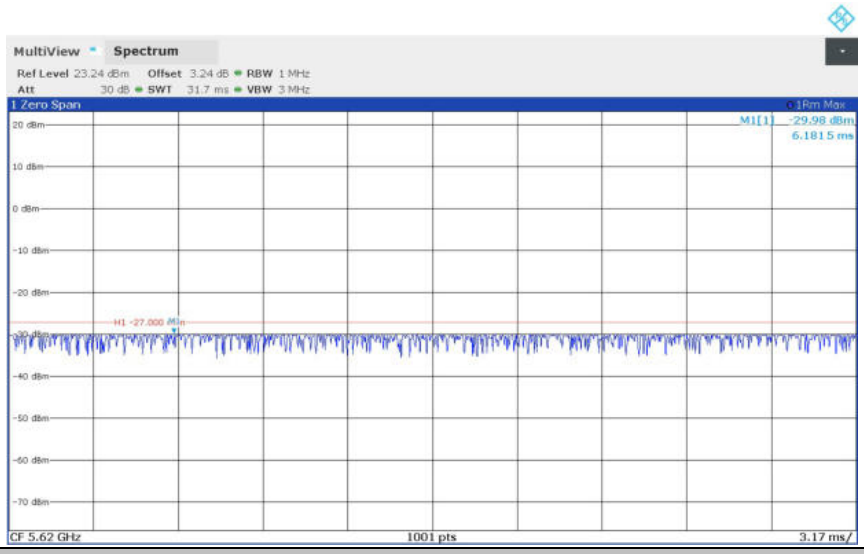


11BE160MIMO_Ant14_5570_ Puncturing20- configure-6

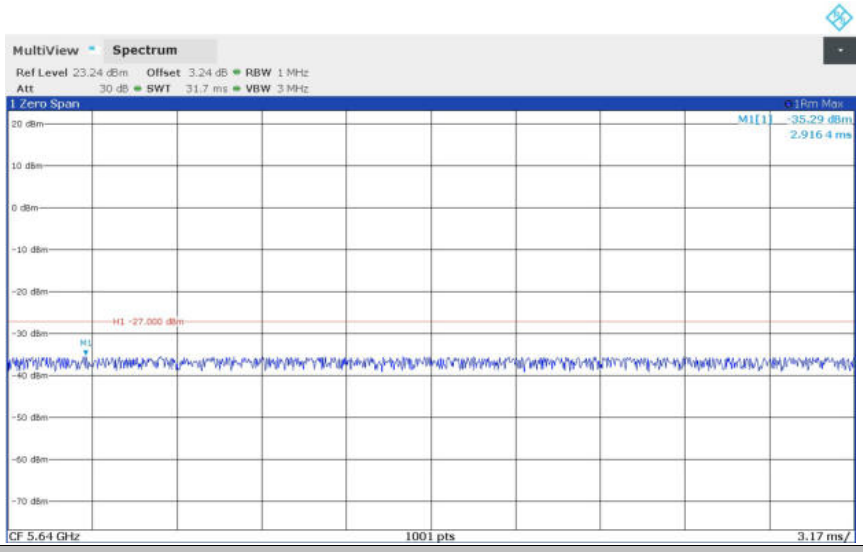


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5570_ Puncturing20- configure-7

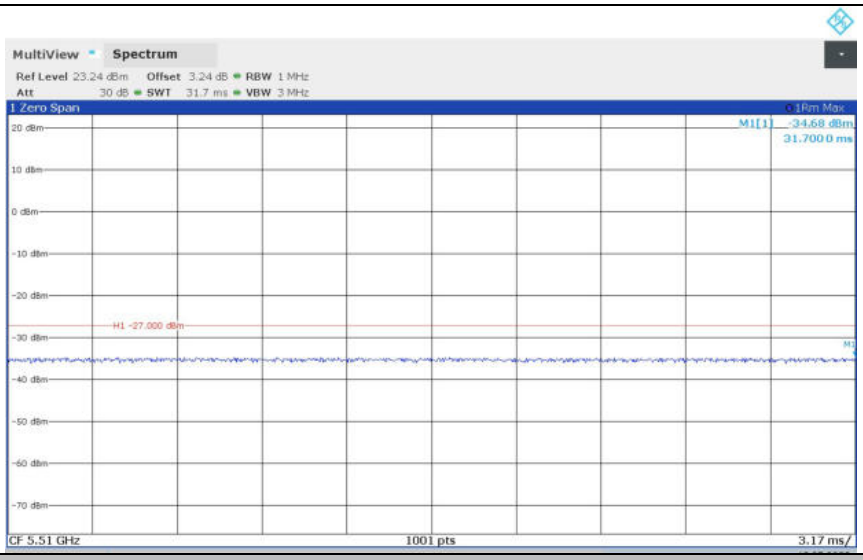


11BE160MIMO_Ant14_5570_ Puncturing20- configure-8

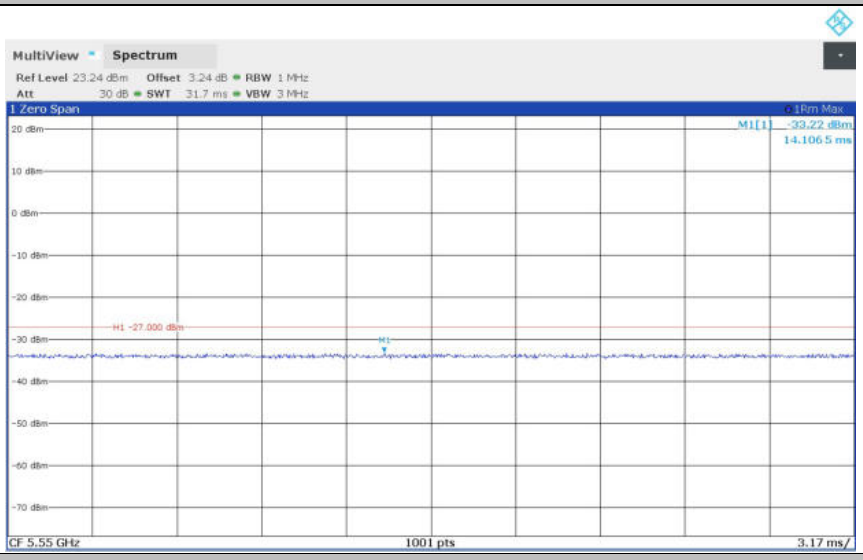


11BE160MIMO_Ant14_5570_ Puncturing40- configure-1

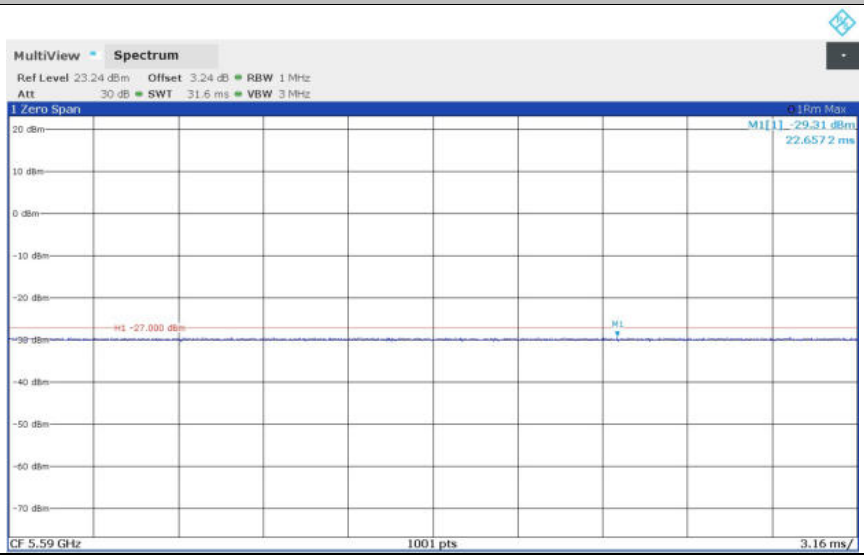
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant14_5570_ Puncturing40- configure-2

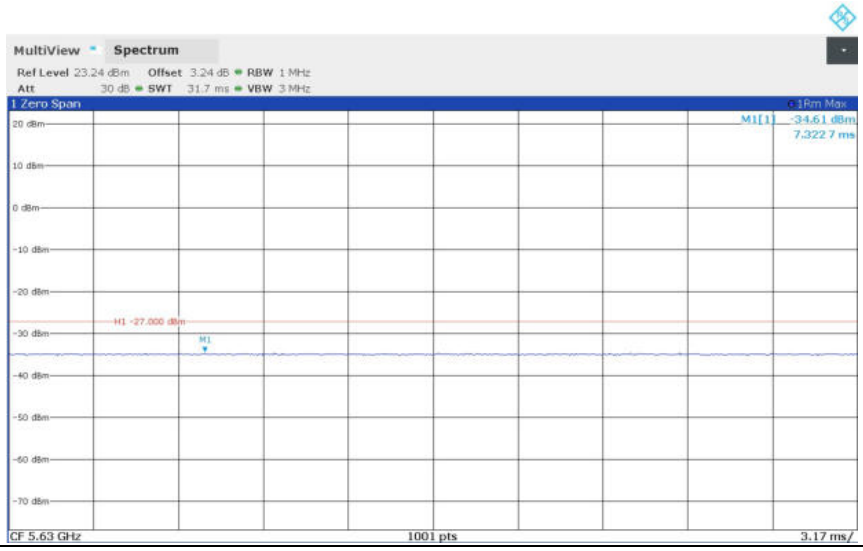


11BE160MIMO_Ant14_5570_ Puncturing40- configure-3

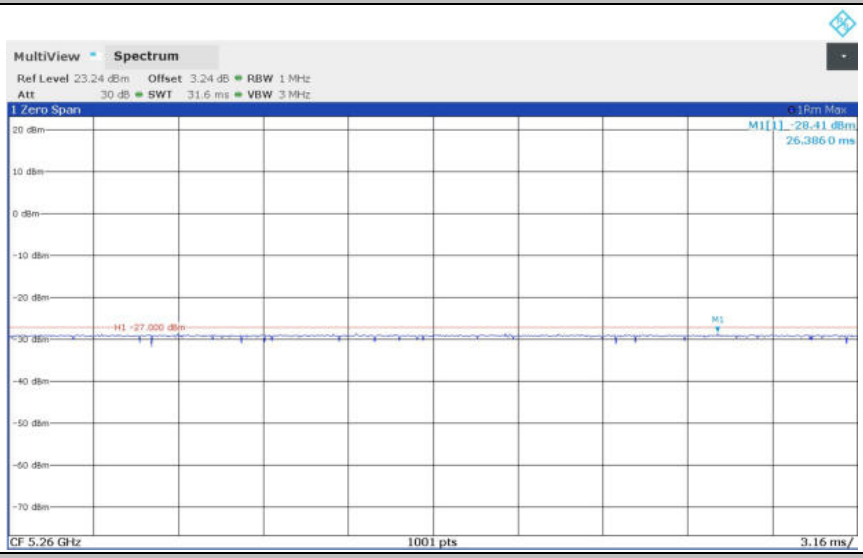


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant14_5570_ Puncturing40- configure-4

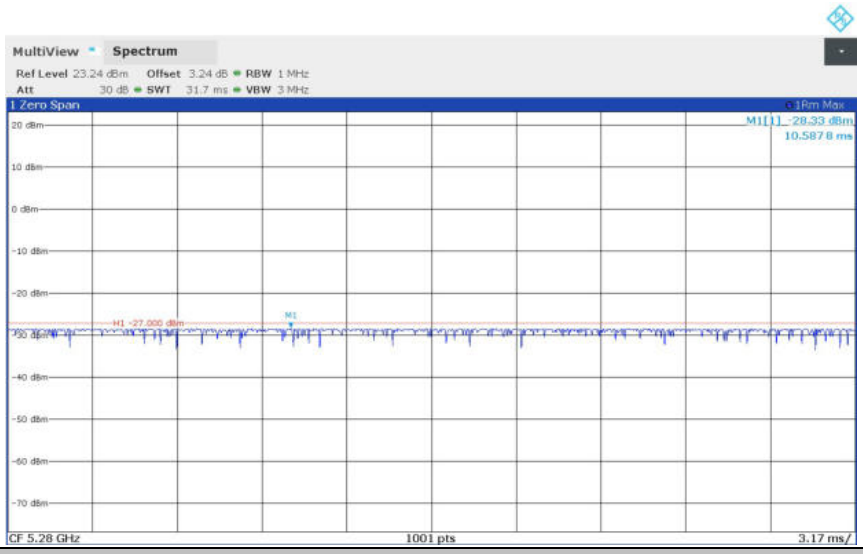


11BE160MIMO_Ant10_5250_ Puncturing20- configure-5

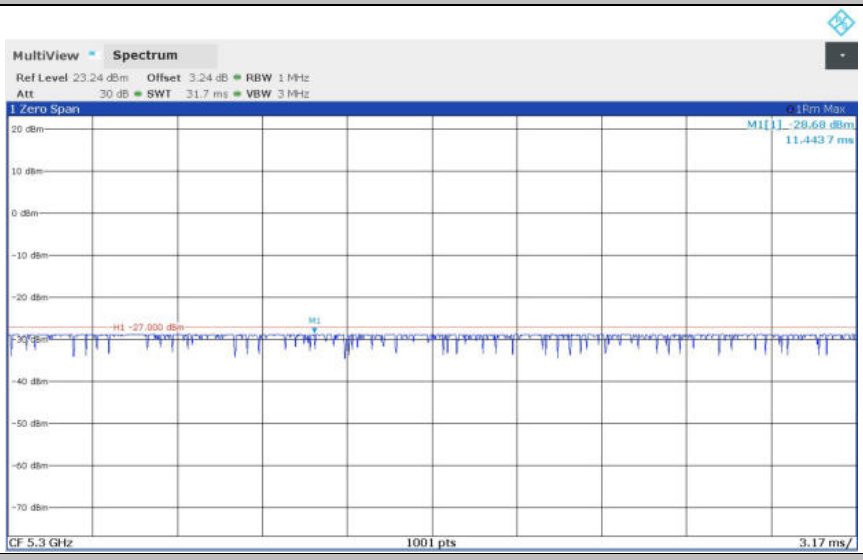


11BE160MIMO_Ant10_5250_ Puncturing20- configure-6

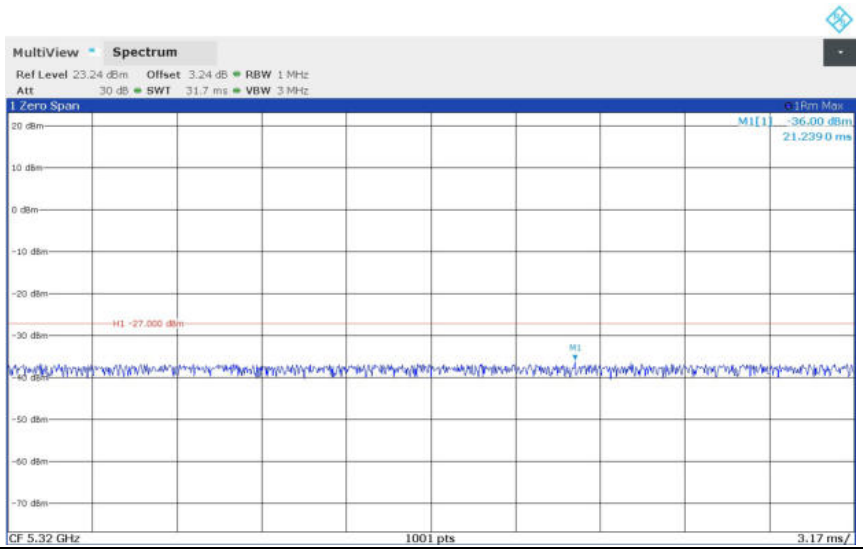
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5250_ Puncturing20- configure-7

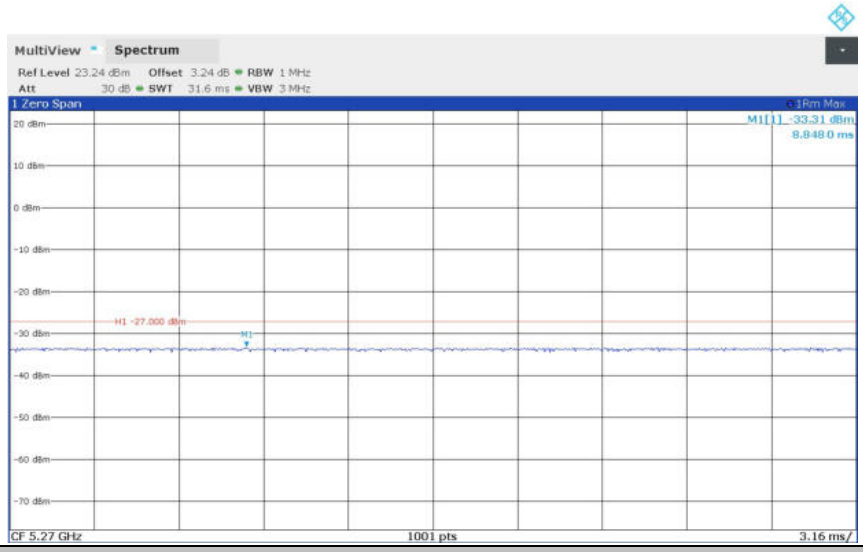


11BE160MIMO_Ant10_5250_ Puncturing20- configure-8

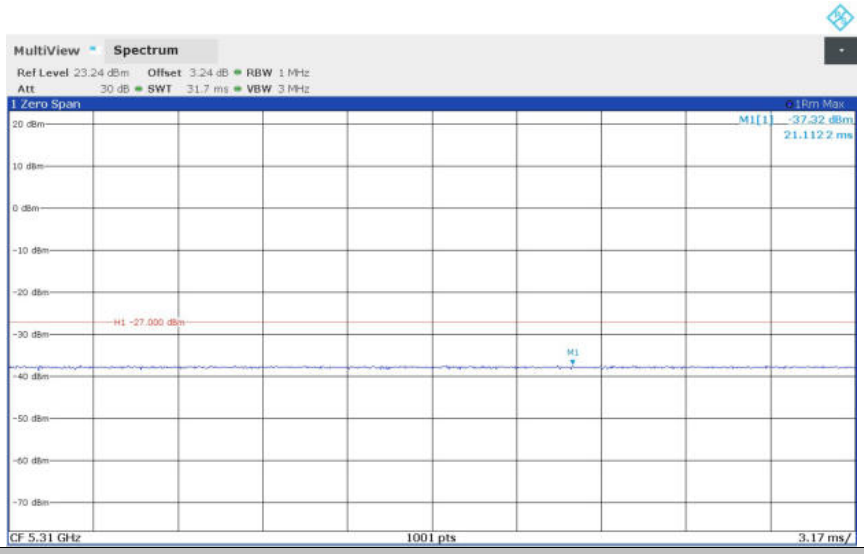


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant10_5250_ Puncturing40- configure-3

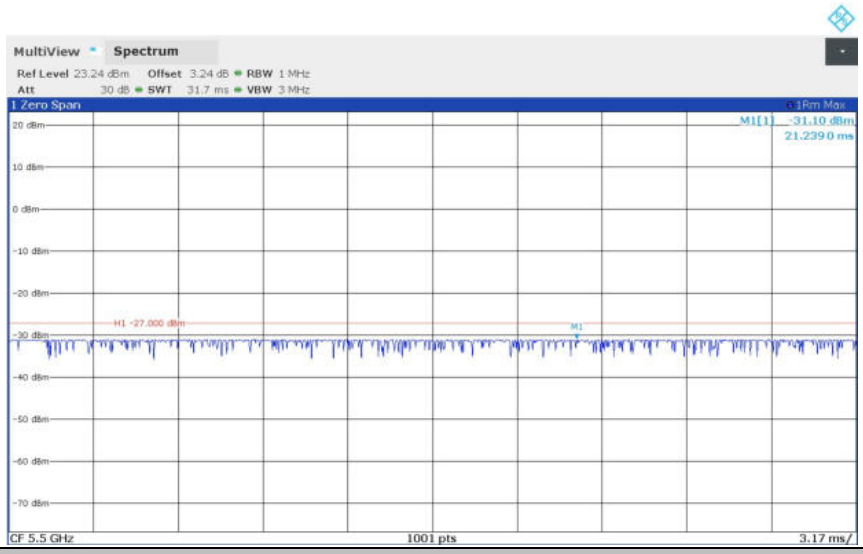


11BE160MIMO_Ant10_5250_ Puncturing40- configure-4

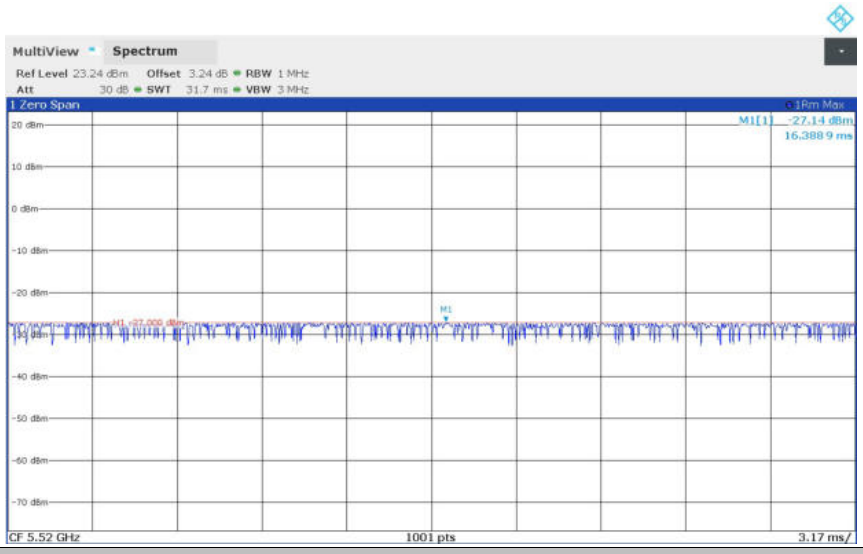


11BE160MIMO_Ant10_5570_ Puncturing20- configure-1

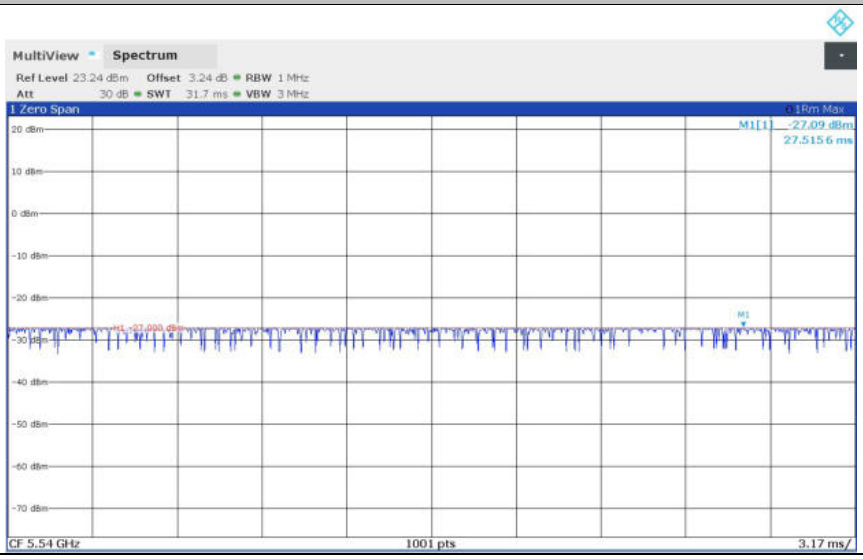
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5570_ Puncturing20- configure-2

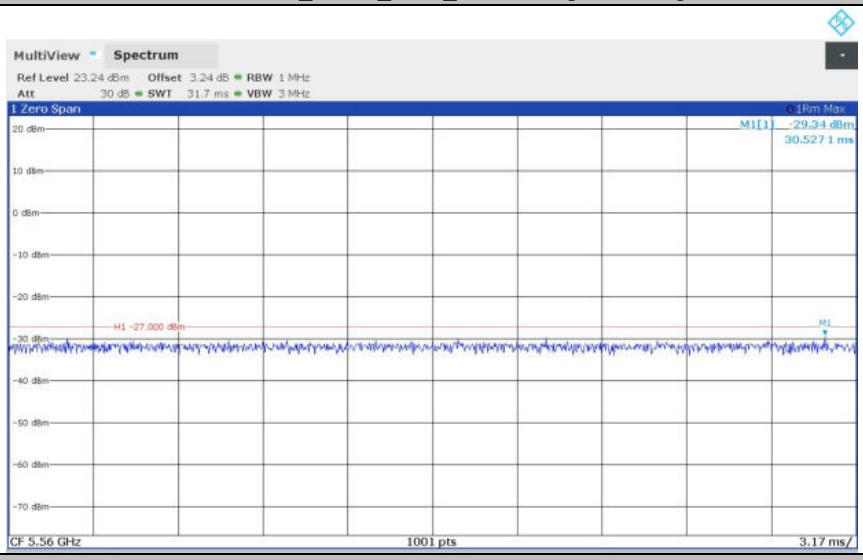


11BE160MIMO_Ant10_5570_ Puncturing20- configure-3

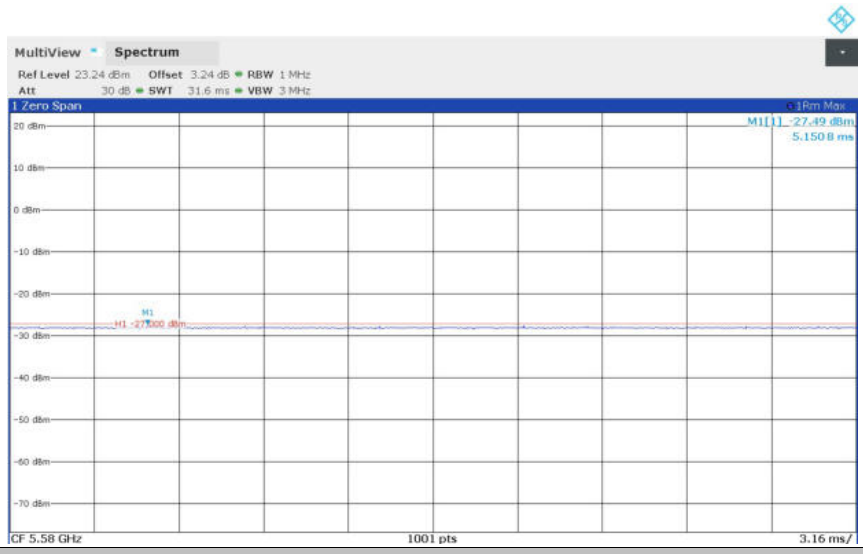


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant10_5570_ Puncturing20- configure-4

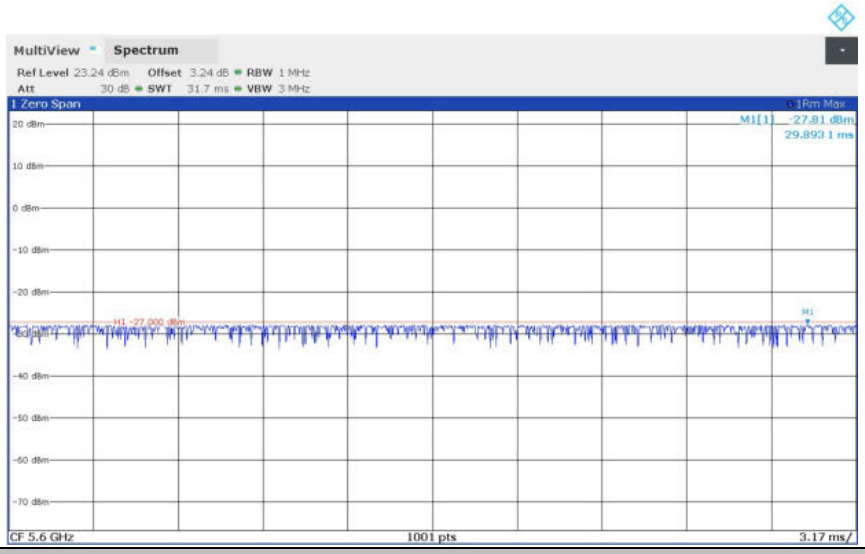


11BE160MIMO_Ant10_5570_ Puncturing20- configure-5

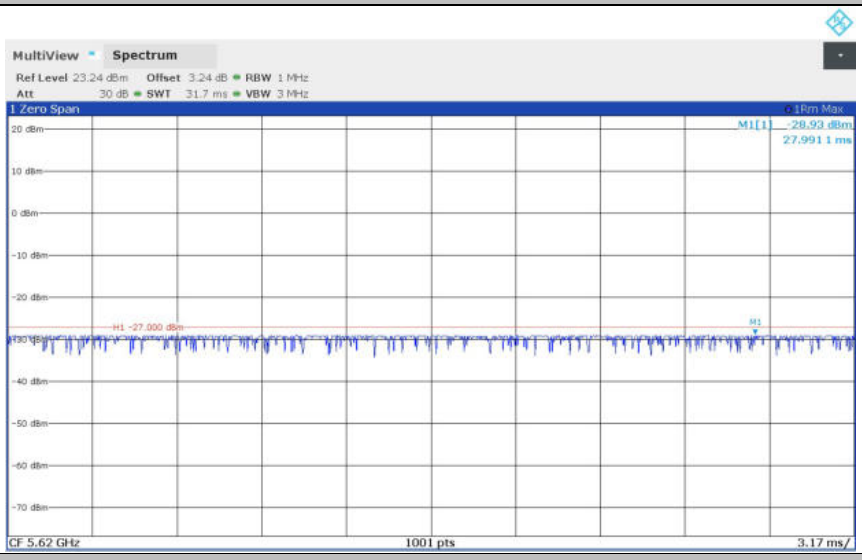


11BE160MIMO_Ant10_5570_ Puncturing20- configure-6

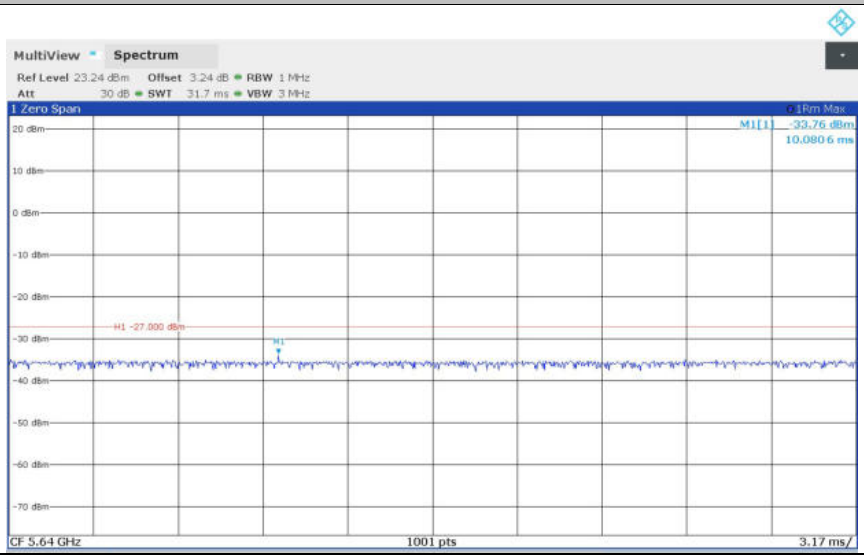
©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5570_ Puncturing20- configure-7

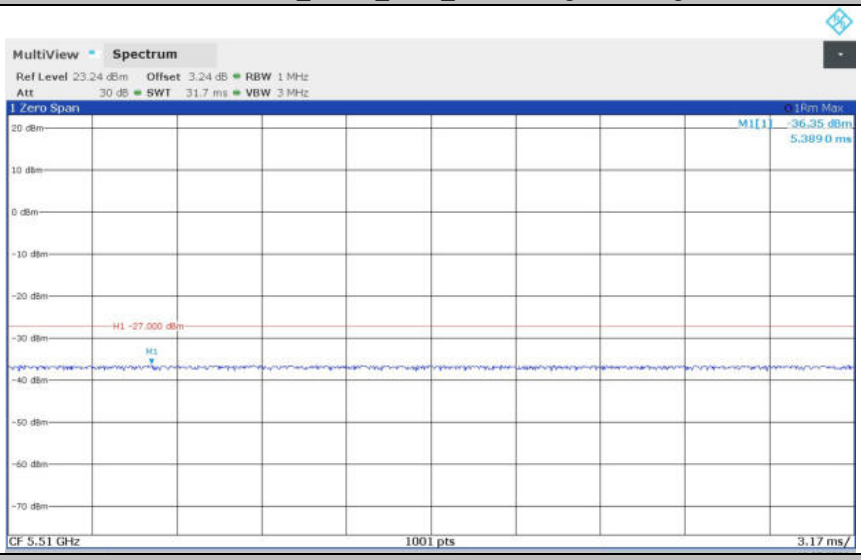


11BE160MIMO_Ant10_5570_ Puncturing20- configure-8

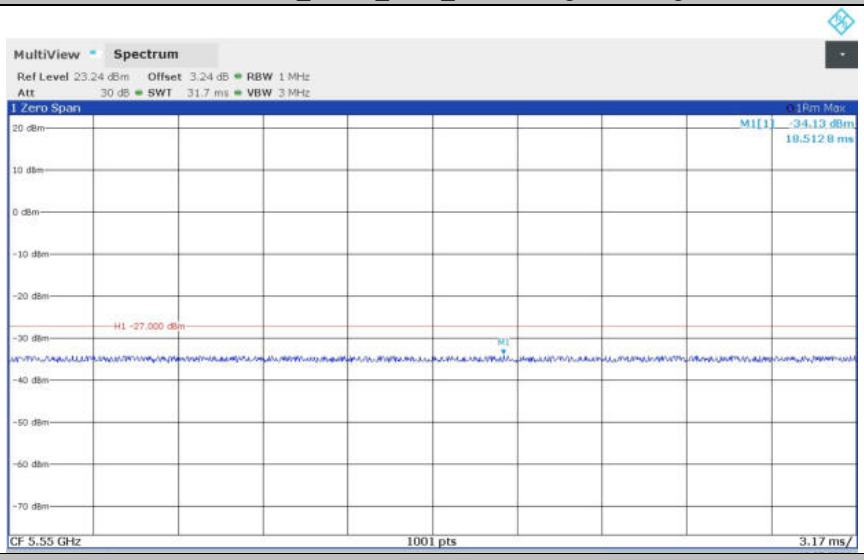


©Copyright. All rights reserved by CTTL.

11BE160MIMO_Ant10_5570_ Puncturing40- configure-1

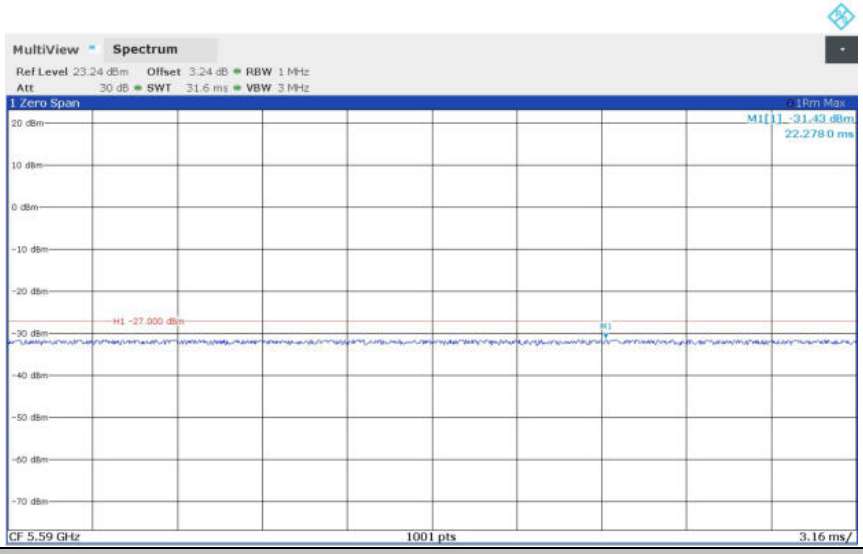


11BE160MIMO_Ant10_5570_ Puncturing40- configure-2

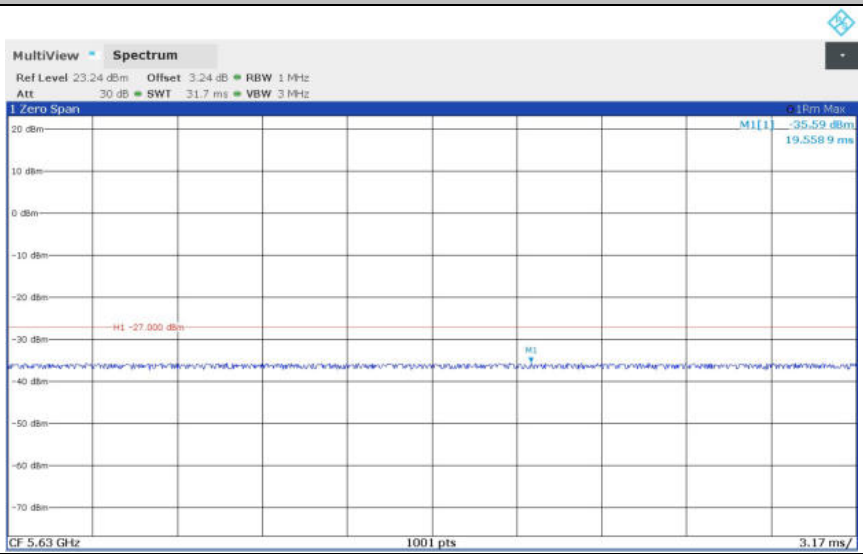


11BE160MIMO_Ant10_5570_ Puncturing40- configure-3

©Copyright. All rights reserved by CTTL.



11BE160MIMO_Ant10_5570_ Puncturing40- configure-4



A.5. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

©Copyright. All rights reserved by CTTL.

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

Accredited Laboratory

A2LA has accredited

TELECOMMUNICATION TECHNOLOGY LABS, CAICT

Beijing, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 23rd day of July 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

***** END OF REPORT BODY *****

©Copyright. All rights reserved by CTTL.