

# FCC AND ISED CERTIFICATION TEST REPORT

## FOR

<b>Applicant</b>	:	Harman International Industries, Inc.
<b>Address</b>	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES
<b>Equipment under Test</b>	:	Multi-Channel Soundbar with wireless subwoofer
<b>Model No.</b>	:	BAR 1300X
<b>Trade Mark</b>	:	JBL
<b>FCC ID</b>	:	APIBAR1300
<b>IC</b>	:	6132A-BAR1300
<b>Manufacturer</b>	:	Harman International Industries, Inc.
<b>Address</b>	:	8500 Balboa Boulevard, Northridge, CA 91329, UNITED STATES

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

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# REPORT

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## Test Report Declare

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### Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 2 February 2017.

**Test procedure used:** ANSI C63.10:2013, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01, RSS-Gen Issue 5 April 2018

### We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

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

<b>Report No:</b>	DDT-R22051109-2E05		
<b>Date of Receipt:</b>	May 26, 2022	<b>Date of Test:</b>	May 26, 2022 ~ Aug. 05, 2022

### Prepared By:

*Johnny Wang*

**Johnny Wang/Engineer**

### Approved By:



**Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

### Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Aug. 05, 2022	

## 1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e) RSS-247 Clause 6.2	Pass
Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	Pass
Frequency Stability Measurement	FCC 15.407 (g) RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Emissions in restricted frequency bands	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Band Edge Compliance	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	Pass
Antenna requirement	FCC 15.203 RSS-GEN Clause 8.3	Pass
Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	Pass



## 2. General test information

### 2.1. Description of EUT

EUT* Name	: Multi-Channel Soundbar with wireless subwoofer
Model Number	: BAR 1300X
EUT function description	: Please reference user manual of this device
Power Supply	: Input: 100-240V~, 50/60Hz, 120W
Radio Technology	: IEEE 802.11a/n/ac/ax
Operation frequency	: IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5670MHz, 5755MHz-5755MHz IEEE 802.11ac HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11ac HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5670MHz, 5755MHz-5755MHz IEEE 802.11ac HT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5775MHz IEEE 802.11ax HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11ax HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5670MHz, 5755MHz-5755MHz IEEE 802.11ax HT80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5775MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter rate	: IEEE 802.11a: up to 54 Mbps IEEE 802.11n HT20: up to 144.4 Mbps IEEE 802.11n HT40: up to 300 Mbps IEEE 802.11ac VHT20: up to 173.4 Mbps IEEE 802.11ac VHT40: up to 400 Mbps IEEE 802.11ac VHT80: up to 866.6 Mbps IEEE 802.11ax HE20: up to 286.8 Mbps IEEE 802.11ax HE40: up to 573.5 Mbps IEEE 802.11ax HE80: up to 1201 Mbps
Antenna Type	: Antenna 1: FPC antenna, Maximum PK gain: 4.55 dBi Antenna 2: FPC antenna, Maximum PK gain: 4.6 dBi
Sample Type	: Series production
Sample Number	: S22051109-06 for conductive S22051109-07 for radiation

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

Note 2: Band 5600-5650MHz will be disabled when shipped to Canada.

Antenna information			
	Ant1 gain	Ant2 gain	MIMO
IEEE 802.11a	4.55	4.6	/
IEEE 802.11n HT20	4.55	4.6	7.59
IEEE 802.11n HT40	4.55	4.6	7.59
IEEE 802.11ac VHT20	4.55	4.6	7.59
IEEE 802.11ac VHT40	4.55	4.6	7.59
IEEE 802.11ac VHT80	4.55	4.6	7.59
IEEE 802.11ax HE20	4.55	4.6	7.59
IEEE 802.11ax HE40	4.55	4.6	7.59
IEEE 802.11ax HE80	4.55	4.6	7.59

Channel information					
IEEE 802.11a		IEEE 802.11n (HT40)		IEEE 802.11ac (VHT80)	
IEEE 802.11n (HT20)		IEEE 802.11ac (VHT40)		IEEE 802.11ax (HE80)	
IEEE 802.11ac (VHT20)		IEEE 802.11ax (HE40)			
IEEE 802.11ax (HE20)					
UNII-1					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/
UNII-2A					
52	5260	54	5270	58	5290
56	5280	62	5310		/
60	5300	/	/	/	/
64	5320	/	/	/	/
UNII-2C					
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	/	/
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	/	/	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/
134	5680	/	/	/	/
140	5700	/	/	/	/
UNII-3					
149	5745	151	5755	155	5725
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/



IEEE 802.11ax(HE20)	Operating Mode	Resource Unit	26 Tone(2M)		
	Specific Resource Unit		0		
			1		
			2		
			3		
			4		
			5		
			6		
			7		
			8		
			9		
			Resource Unit	52 Tone(4M)	
		Specific Resource Unit		37	
				38	
	39				
	40				
	Resource Unit	106 Tone(8M)			
Specific Resource Unit		53			
		54			
	Resource Unit	242 Tone(20M)			
	Specific Resource Unit	61			
IEEE 802.11ax(HE40)	Operating Mode	Resource Unit	26 Tone(2M)		
	Specific Resource Unit		0	9	
			1	10	
			2	11	
			3	12	
			4	13	
			5	14	
			6	15	
			7	16	
			8	17	
		Resource Unit	52 Tone(4M)		
	Specific Resource Unit		37	41	
			38	42	
			39	43	
		40	44		
	Resource Unit	106 Tone(8M)			
Specific Resource Unit		53	55		
		54	56		
	Resource Unit	242 Tone(20M)			
	Specific Resource Unit	61	62		
	Resource Unit	484 Tone(40M)			
	Specific Resource Unit	65			
IEEE 802.11ax(HE80)	Operating Mode	Resource Unit	26 Tone(2M)		
	Specific Resource Unit		0	19	
			1	20	
			2	21	
			3	22	
			4	23	
	5	24			

		6	25
		7	26
		8	27
		9	28
		10	29
		11	30
		12	31
		13	32
		14	33
		15	34
		16	35
		17	36
		18	
	Resource Unit	52 Tone(4M)	
		37	45
		38	46
		39	47
	Specific Resource Unit	40	48
		41	49
		42	50
		43	51
		44	52
	Resource Unit	106 Tone(8M)	
		53	57
	Specific Resource Unit	54	58
		55	59
		56	60
	Resource Unit	242 Tone(20M)	
		61	62
	Specific Resource Unit	63	64
	Resource Unit	484 Tone(40M)	
	Specific Resource Unit	65	66
	Resource Unit	996 Tone(80M)	
	Specific Resource Unit	67	

## 2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Other
AC cable	Harman	N/A	N/A	Length: 1.40m,
HDMI cable	Harman	N/A	N/A	Length: 1.17m, with two magnetic rings
Remote control	Harman	N/A	N/A	N/A

## 2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

## 2.4. Block diagram of EUT configuration for test



Test software: adb.exe

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	13	6	Low: CH36	5180
	13	6	Middle: CH40	5200
	13	6	High: CH48	5240
	/	6	Low: CH52	5260
	/	6	Middle: CH56	5280
	/	6	High: CH64	5320
	/	6	Low: CH100	5500
	/	6	Middle: CH116	5580
	/	6	High: CH140	5700
	/	6	Low: CH149	5745
	/	6	Middle: CH157	5785
IEEE 802.11n HT20	13	MCS 0	Low: CH36	5180
	13	MCS 0	Middle: CH40	5200
	13	MCS 0	High: CH48	5240
	/	MCS 0	Low: CH52	5260
	/	MCS 0	Middle: CH56	5280
	/	MCS 0	High: CH64	5320
	/	MCS 0	Low: CH100	5500
	/	MCS 0	Middle: CH116	5580

	/	MCS 0	High: CH140	5700
	/	MCS 0	Low: CH149	5745
	/	MCS 0	Middle: CH157	5785
	/	MCS 0	High: CH165	5825
IEEE 802.11n HT40	/	MCS 0	Low: CH38	5190
	/	MCS 0	Middle: CH46	5230
	/	MCS 0	High: CH54	5270
	/	MCS 0	Low: CH62	5310
	/	MCS 0	Middle: CH102	5510
	/	MCS 0	High: CH110	5550
	/	MCS 0	Low: CH134	5670
	/	MCS 0	Middle: CH151	5755
	/	MCS 0	High: CH159	5795
	IEEE 802.11ac HT20	13	MCS 0	Low: CH36
13		MCS 0	Middle: CH40	5200
13		MCS 0	High: CH48	5240
/		MCS 0	Low: CH52	5260
/		MCS 0	Middle: CH56	5280
/		MCS 0	High: CH64	5320
/		MCS 0	Low: CH100	5500
/		MCS 0	Middle: CH116	5580
/		MCS 0	High: CH140	5700
/		MCS 0	Low: CH149	5745
IEEE 802.11ac HT40	/	MCS 0	Middle: CH157	5785
	/	MCS 0	High: CH165	5825
	/	MCS 0	Low: CH38	5190
	/	MCS 0	Middle: CH46	5230
	/	MCS 0	High: CH54	5270
	/	MCS 0	Low: CH62	5310
	/	MCS 0	Middle: CH102	5510
	/	MCS 0	High: CH110	5550
IEEE 802.11ac HT80	/	MCS 0	Low: CH134	5670
	/	MCS 0	Middle: CH151	5755
	/	MCS 0	High: CH159	5795
	/	MCS 0	CH42	5210
	/	MCS 0	CH58	5290
IEEE 802.11ax HE20	/	MCS 0	CH106	5530
	/	MCS 0	CH122	5610
	/	MCS 0	CH155	5775
	SU:11 RU:04	MCS 0	Low: CH36	5180
	SU:11 RU:04	MCS 0	Middle: CH40	5200
	SU:11 RU:04	MCS 0	High: CH48	5240
	SU:12 RU:08	MCS 0	Low: CH52	5260
	SU:12 RU:08	MCS 0	Middle: CH56	5280
	SU:12 RU:08	MCS 0	High: CH64	5320
	SU:12 RU:09	MCS 0	Low: CH100	5500
	SU:12 RU:09	MCS 0	Middle: CH116	5580
SU:12 RU:09	MCS 0	High: CH140	5700	
SU:12 RU:10	MCS 0	Low: CH149	5745	
SU:12 RU:10	MCS 0	Middle: CH157	5785	
SU:12 RU:10	MCS 0	High: CH165	5825	

IEEE 802.11ax HE40	SU:11 RU:04	MCS 0	Low: CH38	5190
	SU:11 RU:04	MCS 0	Middle: CH46	5230
	SU:13 RU:08	MCS 0	High: CH54	5270
	SU:13 RU:08	MCS 0	Low: CH62	5310
	SU:13 RU:09	MCS 0	Middle: CH102	5510
	SU:13 RU:09	MCS 0	High: CH110	5550
	SU:13 RU:09	MCS 0	Low: CH134	5670
	SU:13 RU:10	MCS 0	Middle: CH151	5755
IEEE 802.11ax HE80	SU:/ RU:04	MCS 0	CH42	5210
	SU:/ RU:08	MCS 0	CH58	5290
	SU:/ RU:09	MCS 0	CH106	5530
	SU:/ RU:09	MCS 0	CH122	5610
	SU:/ RU:10	MCS 0	CH155	5775

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

## 2.5. Deviations of test standard

No Deviation.

## 2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+21 °C to +25 °C
Humidity range:	40% to 75%
Pressure range:	86 kPa to 106 kPa

## 2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Addr.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com)

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118



## 2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 × 10 <sup>-8</sup> (Antenna couple method)
	5.5 × 10 <sup>-8</sup> (Conducted method)
Conducted spurious emissions	0.86 dB (10 MHz ≤ f < 3.6GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 22 GHz)
Uncertainty for radio frequency (RBW<20kHz)	3×10 <sup>-8</sup>
Temperature	0.4℃
Humidity	2%
Uncertainty for Radiation Emission test (30MHz-1GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1GHz-40GHz)	4.10 dB (1-6 GHz)
	4.40 dB (6 GHz-18 GHz)
	3.54 dB (18 GHz-26 GHz)
	4.30 dB (26 GHz-40 GHz)
Uncertainty for Power line conduction emission test	3.32 dB (150 kHz-30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

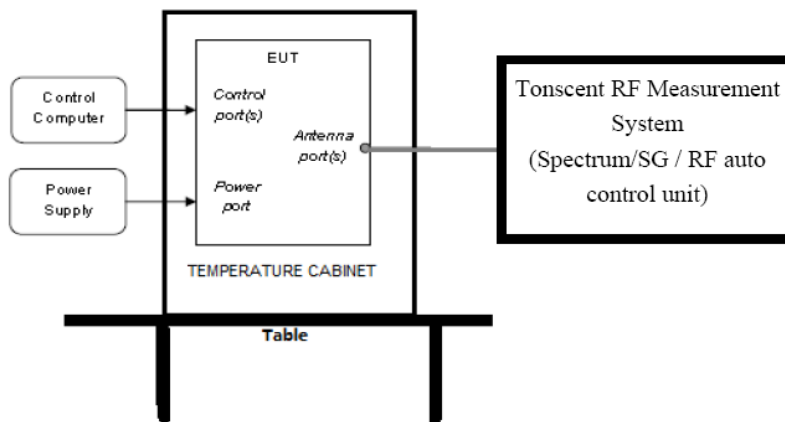


### 3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<b>☑RF Connected Test (Tonscend RF Measurement System 4#)</b>					
MXA Signal Analyzer	Agilent	N9020A	MY49100362	Sep. 02, 2021	1 Year
Signal & Spectrum analyzer	R&S	FSV3044	101173	Apr. 13, 2022	1 Year
Wideband Radio Communication tester	R&S	CMW500	120259	May 18, 2022	1 Year
MXG Vector Signal Generator	Agilent	N5182B	MY59100192	May 18, 2022	1 Year
Vector Signal Generator	Agilent	E8267D	US49060192	Oct. 15, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	2118060485	Oct. 18, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	May 26, 2022	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.88.0346	N/A	N/A
<b>☑Radiation 3#chamber</b>					
EMI Test Receiver	R&S	ESU	100472	May 18, 2022	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	May 18, 2022	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA 9120 D	02468	Nov. 29, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 11, 2022	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
<b>☑Power Line Conducted Emissions Test 1#</b>					
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 07, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 07, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
LISN 3	SCHWARZBECK	NSLK 8163	00017	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

## 4. 26dB Bandwidth, 6dB Bandwidth and 99% Bandwidth

### 4.1. Block diagram of test setup



### 4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150 - 5250
	26 dB Bandwidth	5250 - 5350
	26 dB Bandwidth	For FCC: 5470 - 5725 For IC: 5470 - 5600 5650 - 5725
	Minimum 500 kHz 6 dB Bandwidth	5725 - 5850

### 4.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB and 6 dB relative to the maximum level measured in the fundamental emission.

## 4.4. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.935	5170.957	5188.892	---	PASS
	Ant2	5180	17.058	5171.470	5188.529	---	PASS
	Ant1	5200	17.938	5190.965	5208.903	---	PASS
	Ant2	5200	17.081	5191.436	5208.518	---	PASS
	Ant1	5240	16.754	5231.572	5248.326	---	PASS
	Ant2	5240	16.441	5231.759	5248.200	---	PASS
	Ant1	5260	17.902	5251.022	5268.924	---	PASS
	Ant2	5260	16.984	5251.489	5268.473	---	PASS
	Ant1	5280	17.846	5270.995	5288.841	---	PASS
	Ant2	5280	16.951	5271.506	5288.457	---	PASS
	Ant1	5320	17.915	5310.974	5328.890	---	PASS
	Ant2	5320	17.046	5311.455	5328.500	---	PASS
	Ant1	5500	18.03	5490.926	5508.957	---	PASS
	Ant2	5500	17.093	5491.431	5508.525	---	PASS
	Ant1	5580	17.991	5570.894	5588.884	---	PASS
	Ant2	5580	17.013	5571.436	5588.448	---	PASS
	Ant1	5700	17.865	5690.989	5708.854	---	PASS
	Ant2	5700	17.048	5691.408	5708.456	---	PASS
	Ant1	5745	17.882	5735.972	5753.854	---	PASS
	Ant2	5745	16.98	5736.478	5753.458	---	PASS
Ant1	5785	17.907	5775.979	5793.886	---	PASS	
Ant2	5785	16.956	5776.496	5793.452	---	PASS	
Ant1	5825	17.92	5816.017	5833.936	---	PASS	
Ant2	5825	16.961	5816.494	5833.455	---	PASS	
11N20MIMO	Ant1	5180	18.5	5170.754	5189.253	---	PASS
	Ant2	5180	17.95	5171.055	5189.005	---	PASS
	Ant1	5200	18.504	5190.713	5209.217	---	PASS
	Ant2	5200	17.942	5191.053	5208.994	---	PASS
	Ant1	5240	17.659	5231.149	5248.808	---	PASS
	Ant2	5240	17.506	5231.225	5248.731	---	PASS
	Ant1	5260	18.54	5250.720	5269.259	---	PASS
	Ant2	5260	17.866	5251.096	5268.961	---	PASS
	Ant1	5280	18.474	5270.747	5289.221	---	PASS
	Ant2	5280	17.833	5271.104	5288.938	---	PASS
	Ant1	5320	18.426	5310.775	5329.201	---	PASS
	Ant2	5320	17.893	5311.036	5328.929	---	PASS
	Ant1	5500	18.474	5490.733	5509.206	---	PASS
	Ant2	5500	17.917	5491.031	5508.947	---	PASS
	Ant1	5580	18.597	5570.603	5589.200	---	PASS
	Ant2	5580	17.889	5571.035	5588.924	---	PASS
	Ant1	5700	18.429	5690.738	5709.167	---	PASS
	Ant2	5700	17.888	5691.042	5708.930	---	PASS
	Ant1	5745	18.476	5735.668	5754.143	---	PASS
	Ant2	5745	17.84	5736.073	5753.913	---	PASS
Ant1	5785	18.484	5775.720	5794.204	---	PASS	
Ant2	5785	17.832	5776.099	5793.931	---	PASS	
Ant1	5825	18.444	5815.751	5834.195	---	PASS	

	Ant2	5825	17.857	5816.075	5833.932	---	PASS
11N40MIMO	Ant1	5190	35.681	5172.177	5207.858	---	PASS
	Ant2	5190	35.825	5172.141	5207.966	---	PASS
	Ant1	5230	35.748	5212.158	5247.906	---	PASS
	Ant2	5230	35.806	5212.112	5247.918	---	PASS
	Ant1	5270	35.731	5252.155	5287.886	---	PASS
	Ant2	5270	35.816	5252.161	5287.976	---	PASS
	Ant1	5310	35.769	5292.116	5327.886	---	PASS
	Ant2	5310	35.857	5292.083	5327.940	---	PASS
	Ant1	5510	35.761	5492.110	5527.871	---	PASS
	Ant2	5510	35.849	5492.076	5527.926	---	PASS
	Ant1	5550	35.769	5532.084	5567.852	---	PASS
	Ant2	5550	35.833	5532.083	5567.916	---	PASS
	Ant1	5670	35.771	5652.098	5687.869	---	PASS
	Ant2	5670	35.884	5652.055	5687.939	---	PASS
	Ant1	5755	35.775	5737.073	5772.847	---	PASS
	Ant2	5755	35.844	5737.087	5772.930	---	PASS
	Ant1	5795	35.77	5777.128	5812.898	---	PASS
	Ant2	5795	35.843	5777.103	5812.946	---	PASS
11AC20MIMO	Ant1	5180	18.555	5170.691	5189.246	---	PASS
	Ant2	5180	17.937	5171.071	5189.008	---	PASS
	Ant1	5200	18.508	5190.687	5209.195	---	PASS
	Ant2	5200	17.897	5191.077	5208.974	---	PASS
	Ant1	5240	17.675	5231.136	5248.811	---	PASS
	Ant2	5240	17.524	5231.210	5248.734	---	PASS
	Ant1	5260	18.502	5250.740	5269.242	---	PASS
	Ant2	5260	17.88	5251.094	5268.974	---	PASS
	Ant1	5280	18.429	5270.755	5289.184	---	PASS
	Ant2	5280	17.831	5271.103	5288.934	---	PASS
	Ant1	5320	18.523	5310.731	5329.255	---	PASS
	Ant2	5320	17.895	5311.060	5328.955	---	PASS
	Ant1	5500	18.519	5490.714	5509.233	---	PASS
	Ant2	5500	17.909	5491.051	5508.960	---	PASS
	Ant1	5580	18.58	5570.629	5589.209	---	PASS
	Ant2	5580	17.885	5571.036	5588.921	---	PASS
	Ant1	5700	18.476	5690.684	5709.160	---	PASS
	Ant2	5700	17.888	5691.059	5708.947	---	PASS
	Ant1	5745	18.334	5735.799	5754.134	---	PASS
	Ant2	5745	17.849	5736.064	5753.913	---	PASS
	Ant1	5785	18.411	5775.762	5794.173	---	PASS
	Ant2	5785	17.83	5776.091	5793.921	---	PASS
	Ant1	5825	18.446	5815.732	5834.178	---	PASS
	Ant2	5825	17.832	5816.082	5833.914	---	PASS
11AC40MIMO	Ant1	5190	35.715	5172.147	5207.862	---	PASS
	Ant2	5190	35.751	5172.200	5207.952	---	PASS
	Ant1	5230	35.707	5212.180	5247.887	---	PASS
	Ant2	5230	35.789	5212.134	5247.923	---	PASS
	Ant1	5270	35.72	5252.153	5287.872	---	PASS
	Ant2	5270	35.793	5252.166	5287.959	---	PASS
	Ant1	5310	35.711	5292.152	5327.864	---	PASS
	Ant2	5310	35.857	5292.089	5327.946	---	PASS



	Ant1	5510	35.751	5492.100	5527.851	---	PASS	
	Ant2	5510	35.844	5492.120	5527.964	---	PASS	
	Ant1	5550	35.68	5532.163	5567.843	---	PASS	
	Ant2	5550	35.808	5532.126	5567.935	---	PASS	
	Ant1	5670	35.767	5652.100	5687.867	---	PASS	
	Ant2	5670	35.877	5652.063	5687.940	---	PASS	
	Ant1	5755	35.757	5737.119	5772.876	---	PASS	
	Ant2	5755	35.861	5737.086	5772.947	---	PASS	
	Ant1	5795	35.686	5777.192	5812.879	---	PASS	
	Ant2	5795	35.821	5777.141	5812.962	---	PASS	
11AC80MIMO	Ant1	5210	75.245	5172.502	5247.747	---	PASS	
	Ant2	5210	74.94	5172.676	5247.616	---	PASS	
	Ant1	5290	75.204	5252.512	5327.716	---	PASS	
	Ant2	5290	74.899	5252.648	5327.547	---	PASS	
	Ant1	5530	75.199	5492.464	5567.663	---	PASS	
	Ant2	5530	75.002	5492.587	5567.590	---	PASS	
	Ant1	5610	75.309	5572.456	5647.765	---	PASS	
	Ant2	5610	75.078	5572.558	5647.637	---	PASS	
	Ant1	5775	75.219	5737.459	5812.678	---	PASS	
	Ant2	5775	75.104	5737.488	5812.592	---	PASS	
11AX20SU	Ant1	5180	19.386	5170.280	5189.666	---	PASS	
	Ant2	5180	19.397	5170.296	5189.693	---	PASS	
	Ant1	5200	19.417	5190.253	5209.670	---	PASS	
	Ant2	5200	19.38	5190.278	5209.658	---	PASS	
	Ant1	5240	18.957	5230.490	5249.446	---	PASS	
	Ant2	5240	18.947	5230.502	5249.450	---	PASS	
	Ant1	5260	19.357	5250.308	5269.665	---	PASS	
	Ant2	5260	19.317	5250.292	5269.608	---	PASS	
	Ant1	5280	19.41	5270.235	5289.645	---	PASS	
	Ant2	5280	19.303	5270.314	5289.617	---	PASS	
	Ant1	5320	19.406	5310.270	5329.677	---	PASS	
	Ant2	5320	19.342	5310.300	5329.641	---	PASS	
	Ant1	5500	19.473	5490.239	5509.712	---	PASS	
	Ant2	5500	19.375	5490.260	5509.635	---	PASS	
	Ant1	5580	19.445	5570.231	5589.676	---	PASS	
	Ant2	5580	19.37	5570.244	5589.614	---	PASS	
	Ant1	5700	19.397	5690.235	5709.632	---	PASS	
	Ant2	5700	19.342	5690.272	5709.614	---	PASS	
	Ant1	5745	19.418	5735.284	5754.702	---	PASS	
	Ant2	5745	19.306	5735.297	5754.603	---	PASS	
	Ant1	5785	19.455	5775.237	5794.693	---	PASS	
	Ant2	5785	19.352	5775.304	5794.655	---	PASS	
	Ant1	5825	19.461	5815.182	5834.642	---	PASS	
	Ant2	5825	19.32	5815.287	5834.607	---	PASS	
	11AX40SU	Ant1	5190	37.79	5171.080	5208.871	---	PASS
		Ant2	5190	37.73	5171.069	5208.799	---	PASS
		Ant1	5230	37.726	5211.113	5248.840	---	PASS
		Ant2	5230	37.754	5211.088	5248.842	---	PASS
		Ant1	5270	37.719	5251.098	5288.817	---	PASS
		Ant2	5270	37.803	5251.055	5288.857	---	PASS
	Ant1	5310	37.784	5291.069	5328.853	---	PASS	

	Ant2	5310	37.784	5291.104	5328.887	---	PASS
	Ant1	5510	37.726	5491.097	5528.823	---	PASS
	Ant2	5510	37.728	5491.096	5528.824	---	PASS
	Ant1	5550	37.733	5531.109	5568.842	---	PASS
	Ant2	5550	37.724	5531.085	5568.809	---	PASS
	Ant1	5670	37.834	5651.031	5688.866	---	PASS
	Ant2	5670	37.829	5651.017	5688.846	---	PASS
	Ant1	5755	37.821	5736.036	5773.856	---	PASS
	Ant2	5755	37.902	5735.987	5773.890	---	PASS
	Ant1	5795	37.84	5776.062	5813.903	---	PASS
11AX80SU	Ant2	5795	37.851	5776.040	5813.891	---	PASS
	Ant1	5210	77.747	5171.156	5248.903	---	PASS
	Ant2	5210	77.774	5171.179	5248.952	---	PASS
	Ant1	5290	77.68	5251.141	5328.822	---	PASS
	Ant2	5290	77.564	5251.282	5328.846	---	PASS
	Ant1	5530	77.707	5491.044	5568.750	---	PASS
	Ant2	5530	77.684	5491.039	5568.723	---	PASS
	Ant1	5610	77.806	5571.104	5648.911	---	PASS
	Ant2	5610	77.807	5571.091	5648.898	---	PASS
	Ant1	5775	78.109	5735.960	5814.068	---	PASS
Ant2	5775	78.12	5735.906	5814.026	---	PASS	

Note: according exploratory explorer test, for 802.11ax Mode, Specific Resource Unit have no distinct influence on 99% OBW, so for 99% OBW, the final test was only performed with EUT working in 802.11ax SU mode.

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.96	5167.60	5191.56	---	PASS
	Ant2	5180	22.60	5168.72	5191.32	---	PASS
	Ant1	5200	23.96	5187.60	5211.56	---	PASS
	Ant2	5200	23.16	5188.20	5211.36	---	PASS
	Ant1	5240	19.64	5230.12	5249.76	---	PASS
	Ant2	5240	19.32	5230.32	5249.64	---	PASS
	Ant1	5260	23.68	5248.08	5271.76	---	PASS
	Ant2	5260	22.32	5248.84	5271.16	---	PASS
	Ant1	5280	23.72	5267.80	5291.52	---	PASS
	Ant2	5280	22.00	5268.92	5290.92	---	PASS
	Ant1	5320	23.96	5307.64	5331.60	---	PASS
	Ant2	5320	22.76	5308.56	5331.32	---	PASS
	Ant1	5500	24.12	5487.64	5511.76	---	PASS
	Ant2	5500	24.08	5488.24	5512.32	---	PASS
	Ant1	5580	24.12	5567.92	5592.04	---	PASS
	Ant2	5580	22.84	5568.44	5591.28	---	PASS
	Ant1	5700	23.92	5687.64	5711.56	---	PASS
	Ant2	5700	23.12	5688.20	5711.32	---	PASS
	Ant1	5745	23.52	5733.04	5756.56	---	PASS
	Ant2	5745	22.56	5733.88	5756.44	---	PASS
Ant1	5785	23.60	5773.08	5796.68	---	PASS	
Ant2	5785	22.72	5773.84	5796.56	---	PASS	



	Ant1	5825	23.40	5813.16	5836.56	---	PASS
	Ant2	5825	22.92	5813.56	5836.48	---	PASS
11N20MIMO	Ant1	5180	24.16	5168.04	5192.20	---	PASS
	Ant2	5180	23.48	5167.92	5191.40	---	PASS
	Ant1	5200	24.12	5188.04	5212.16	---	PASS
	Ant2	5200	23.52	5187.88	5211.40	---	PASS
	Ant1	5240	20.08	5229.92	5250.00	---	PASS
	Ant2	5240	19.88	5230.04	5249.92	---	PASS
	Ant1	5260	24.60	5247.88	5272.48	---	PASS
	Ant2	5260	22.76	5248.84	5271.60	---	PASS
	Ant1	5280	24.20	5267.76	5291.96	---	PASS
	Ant2	5280	23.16	5268.36	5291.52	---	PASS
	Ant1	5320	23.96	5308.04	5332.00	---	PASS
	Ant2	5320	23.48	5307.88	5331.36	---	PASS
	Ant1	5500	24.68	5488.08	5512.76	---	PASS
	Ant2	5500	24.04	5487.84	5511.88	---	PASS
	Ant1	5580	24.68	5567.44	5592.12	---	PASS
	Ant2	5580	23.24	5568.32	5591.56	---	PASS
	Ant1	5700	23.80	5688.04	5711.84	---	PASS
	Ant2	5700	23.48	5687.88	5711.36	---	PASS
	Ant1	5745	24.16	5732.80	5756.96	---	PASS
	Ant2	5745	22.88	5733.52	5756.40	---	PASS
Ant1	5785	23.96	5772.96	5796.92	---	PASS	
Ant2	5785	22.96	5773.64	5796.60	---	PASS	
Ant1	5825	24.20	5812.92	5837.12	---	PASS	
Ant2	5825	22.64	5813.68	5836.32	---	PASS	
11N40MIMO	Ant1	5190	38.80	5170.64	5209.44	---	PASS
	Ant2	5190	38.72	5170.64	5209.36	---	PASS
	Ant1	5230	38.88	5210.56	5249.44	---	PASS
	Ant2	5230	38.80	5210.56	5249.36	---	PASS
	Ant1	5270	38.96	5250.48	5289.44	---	PASS
	Ant2	5270	38.96	5250.56	5289.52	---	PASS
	Ant1	5310	39.04	5290.48	5329.52	---	PASS
	Ant2	5310	39.04	5290.40	5329.44	---	PASS
	Ant1	5510	39.04	5490.48	5529.52	---	PASS
	Ant2	5510	39.12	5490.48	5529.60	---	PASS
	Ant1	5550	38.88	5530.48	5569.36	---	PASS
	Ant2	5550	39.44	5530.08	5569.52	---	PASS
	Ant1	5670	39.12	5650.40	5689.52	---	PASS
	Ant2	5670	39.36	5650.16	5689.52	---	PASS
	Ant1	5755	38.96	5735.40	5774.36	---	PASS
	Ant2	5755	39.28	5735.32	5774.60	---	PASS
	Ant1	5795	38.96	5775.56	5814.52	---	PASS
	Ant2	5795	39.12	5775.40	5814.52	---	PASS
11AC20MIMO	Ant1	5180	23.76	5168.16	5191.92	---	PASS
	Ant2	5180	22.76	5168.64	5191.40	---	PASS
	Ant1	5200	24.00	5188.08	5212.08	---	PASS
	Ant2	5200	23.68	5187.76	5211.44	---	PASS
	Ant1	5240	20.04	5229.96	5250.00	---	PASS
	Ant2	5240	19.96	5230.04	5250.00	---	PASS
Ant1	5260	24.28	5248.12	5272.40	---	PASS	

	Ant2	5260	22.64	5248.88	5271.52	---	PASS
	Ant1	5280	24.08	5268.12	5292.20	---	PASS
	Ant2	5280	22.88	5268.64	5291.52	---	PASS
	Ant1	5320	23.84	5308.20	5332.04	---	PASS
	Ant2	5320	22.76	5308.60	5331.36	---	PASS
	Ant1	5500	24.16	5488.12	5512.28	---	PASS
	Ant2	5500	22.72	5488.64	5511.36	---	PASS
	Ant1	5580	24.16	5567.92	5592.08	---	PASS
	Ant2	5580	22.92	5568.68	5591.60	---	PASS
	Ant1	5700	23.84	5688.08	5711.92	---	PASS
	Ant2	5700	22.56	5688.80	5711.36	---	PASS
	Ant1	5745	23.84	5733.08	5756.92	---	PASS
	Ant2	5745	22.60	5733.76	5756.36	---	PASS
	Ant1	5785	23.60	5773.28	5796.88	---	PASS
	Ant2	5785	22.76	5773.76	5796.52	---	PASS
	Ant1	5825	23.92	5813.12	5837.04	---	PASS
Ant2	5825	22.84	5813.84	5836.68	---	PASS	
11AC40MIMO	Ant1	5190	38.88	5170.56	5209.44	---	PASS
	Ant2	5190	39.04	5170.56	5209.60	---	PASS
	Ant1	5230	38.80	5210.64	5249.44	---	PASS
	Ant2	5230	38.72	5210.64	5249.36	---	PASS
	Ant1	5270	38.80	5250.56	5289.36	---	PASS
	Ant2	5270	38.88	5250.56	5289.44	---	PASS
	Ant1	5310	38.96	5290.64	5329.60	---	PASS
	Ant2	5310	38.96	5290.48	5329.44	---	PASS
	Ant1	5510	39.04	5490.48	5529.52	---	PASS
	Ant2	5510	39.04	5490.56	5529.60	---	PASS
	Ant1	5550	38.88	5530.48	5569.36	---	PASS
	Ant2	5550	38.96	5530.40	5569.36	---	PASS
	Ant1	5670	38.88	5650.56	5689.44	---	PASS
	Ant2	5670	39.04	5650.48	5689.52	---	PASS
	Ant1	5755	38.96	5735.48	5774.44	---	PASS
	Ant2	5755	38.96	5735.56	5774.52	---	PASS
Ant1	5795	38.88	5775.56	5814.44	---	PASS	
Ant2	5795	39.12	5775.40	5814.52	---	PASS	
11AC80MIMO	Ant1	5210	79.20	5170.48	5249.68	---	PASS
	Ant2	5210	78.24	5170.96	5249.20	---	PASS
	Ant1	5290	79.20	5250.48	5329.68	---	PASS
	Ant2	5290	78.08	5250.96	5329.04	---	PASS
	Ant1	5530	79.04	5490.48	5569.52	---	PASS
	Ant2	5530	78.08	5490.96	5569.04	---	PASS
	Ant1	5610	79.04	5570.48	5649.52	---	PASS
	Ant2	5610	78.24	5570.96	5649.20	---	PASS
	Ant1	5775	79.04	5735.48	5814.52	---	PASS
	Ant2	5775	78.24	5735.96	5814.20	---	PASS
11AX20SU	Ant1	5180	25.64	5167.04	5192.68	---	PASS
	Ant2	5180	23.08	5168.84	5191.92	---	PASS
	Ant1	5200	24.00	5188.68	5212.68	---	PASS
	Ant2	5200	24.36	5188.08	5212.44	---	PASS
	Ant1	5240	19.88	5230.04	5249.92	---	PASS
	Ant2	5240	19.92	5230.00	5249.92	---	PASS

	Ant1	5260	26.68	5247.08	5273.76	---	PASS
	Ant2	5260	23.08	5248.96	5272.04	---	PASS
	Ant1	5280	25.88	5268.12	5294.00	---	PASS
	Ant2	5280	23.32	5267.80	5291.12	---	PASS
	Ant1	5320	24.08	5307.84	5331.92	---	PASS
	Ant2	5320	26.48	5307.52	5334.00	---	PASS
	Ant1	5500	25.64	5487.28	5512.92	---	PASS
	Ant2	5500	23.92	5487.68	5511.60	---	PASS
	Ant1	5580	28.04	5565.52	5593.56	---	PASS
	Ant2	5580	27.24	5567.08	5594.32	---	PASS
	Ant1	5700	24.80	5686.64	5711.44	---	PASS
	Ant2	5700	24.84	5687.64	5712.48	---	PASS
	Ant1	5745	27.64	5732.16	5759.80	---	PASS
	Ant2	5745	23.20	5733.72	5756.92	---	PASS
	Ant1	5785	30.20	5771.52	5801.72	---	PASS
	Ant2	5785	23.04	5773.52	5796.56	---	PASS
	Ant1	5825	26.08	5813.00	5839.08	---	PASS
	Ant2	5825	22.76	5814.08	5836.84	---	PASS
11AX40SU	Ant1	5190	39.60	5170.16	5209.76	---	PASS
	Ant2	5190	39.68	5170.16	5209.84	---	PASS
	Ant1	5230	39.76	5210.08	5249.84	---	PASS
	Ant2	5230	39.60	5210.16	5249.76	---	PASS
	Ant1	5270	39.68	5250.16	5289.84	---	PASS
	Ant2	5270	39.68	5250.16	5289.84	---	PASS
	Ant1	5310	39.76	5290.08	5329.84	---	PASS
	Ant2	5310	39.76	5290.16	5329.92	---	PASS
	Ant1	5510	39.68	5490.16	5529.84	---	PASS
	Ant2	5510	39.68	5490.16	5529.84	---	PASS
	Ant1	5550	39.68	5530.16	5569.84	---	PASS
	Ant2	5550	39.68	5530.16	5569.84	---	PASS
	Ant1	5670	39.68	5650.16	5689.84	---	PASS
	Ant2	5670	39.76	5650.16	5689.92	---	PASS
	Ant1	5755	39.60	5735.16	5774.76	---	PASS
	Ant2	5755	39.84	5735.08	5774.92	---	PASS
	Ant1	5795	39.60	5775.16	5814.76	---	PASS
	Ant2	5795	39.76	5775.08	5814.84	---	PASS
11AX80SU	Ant1	5210	80.48	5169.84	5250.32	---	PASS
	Ant2	5210	80.48	5169.84	5250.32	---	PASS
	Ant1	5290	80.32	5249.84	5330.16	---	PASS
	Ant2	5290	80.48	5249.84	5330.32	---	PASS
	Ant1	5530	80.64	5489.68	5570.32	---	PASS
	Ant2	5530	80.48	5489.68	5570.16	---	PASS
	Ant1	5610	80.48	5569.84	5650.32	---	PASS
	Ant2	5610	80.48	5569.84	5650.32	---	PASS
	Ant1	5775	80.64	5734.68	5815.32	---	PASS
	Ant2	5775	80.32	5734.84	5815.16	---	PASS

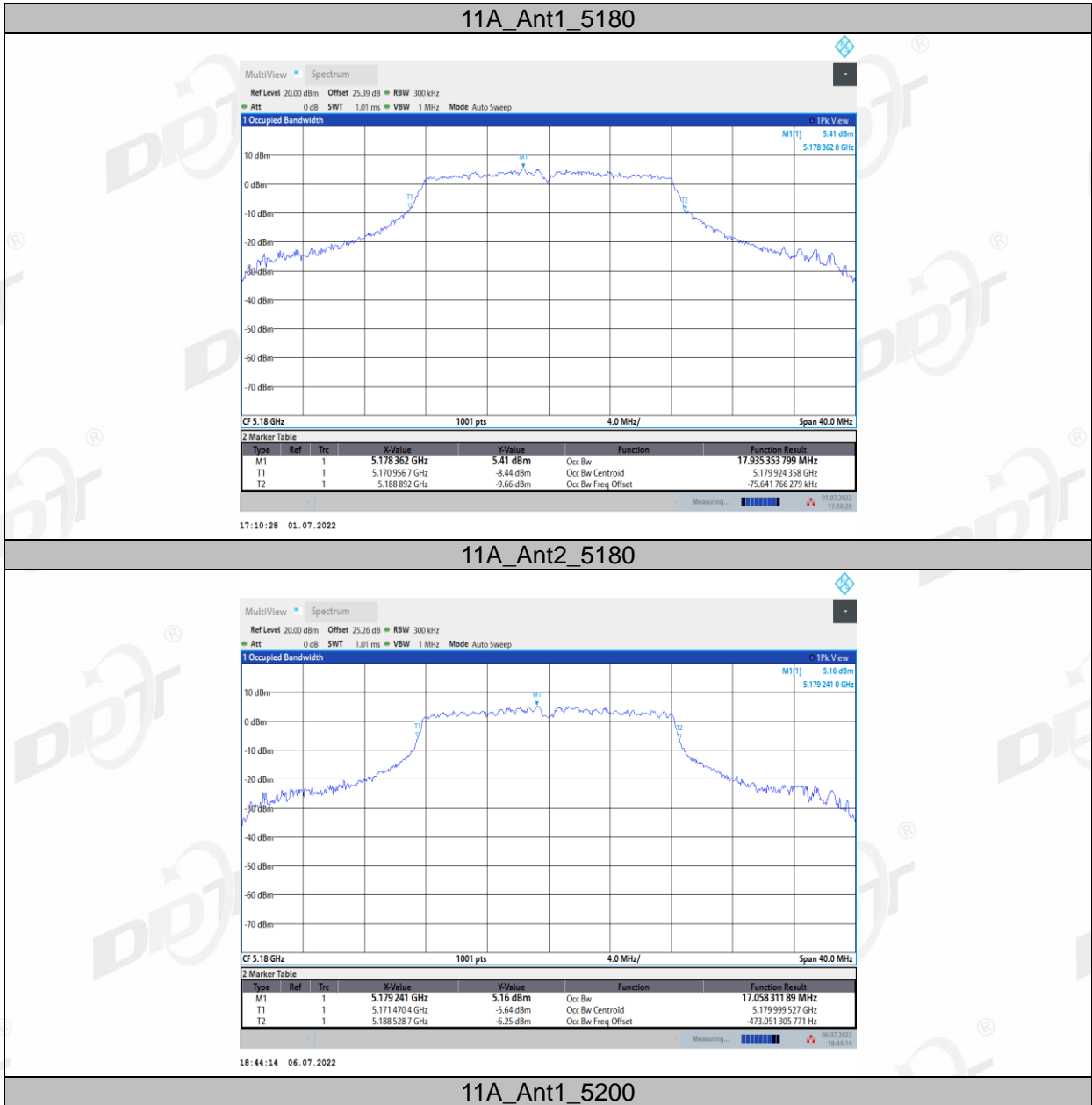
Note: according exploratory explorer test, for 802.11ax Mode, Specific Resource Unit have no distinct influence on 26db EBW, so for 26db EBW, the final test was only performed with EUT working in 802.11ax SU mode.

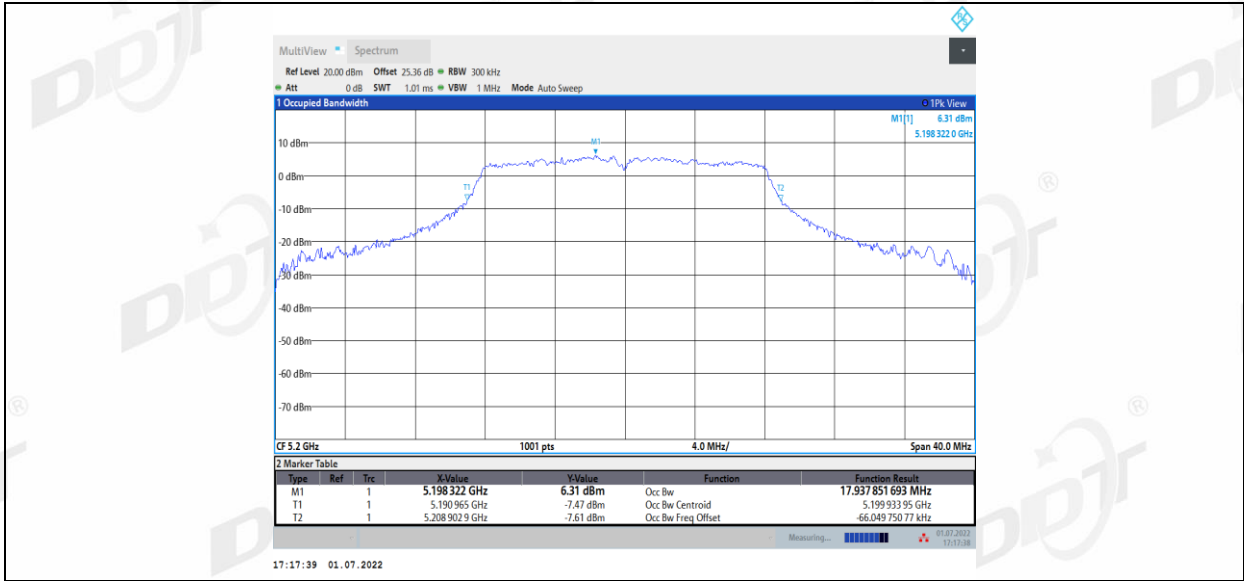
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.04	5736.80	5752.84	0.5	PASS
	Ant2	5745	16.36	5736.76	5753.12	0.5	PASS
	Ant1	5785	16.04	5777.04	5793.08	0.5	PASS
	Ant2	5785	16.36	5776.76	5793.12	0.5	PASS
	Ant1	5825	16.28	5816.80	5833.08	0.5	PASS
	Ant2	5825	16.32	5816.80	5833.12	0.5	PASS
11N20MIMO	Ant1	5745	16.28	5737.04	5753.32	0.5	PASS
	Ant2	5745	17.56	5736.16	5753.72	0.5	PASS
	Ant1	5785	16.44	5777.04	5793.48	0.5	PASS
	Ant2	5785	17.32	5776.40	5793.72	0.5	PASS
	Ant1	5825	17.20	5816.52	5833.72	0.5	PASS
	Ant2	5825	17.56	5816.16	5833.72	0.5	PASS
11N40MIMO	Ant1	5755	35.04	5737.48	5772.52	0.5	PASS
	Ant2	5755	35.04	5737.48	5772.52	0.5	PASS
	Ant1	5795	35.04	5777.48	5812.52	0.5	PASS
	Ant2	5795	33.84	5778.68	5812.52	0.5	PASS
11AC20MIMO	Ant1	5745	16.04	5737.04	5753.08	0.5	PASS
	Ant2	5745	17.56	5736.16	5753.72	0.5	PASS
	Ant1	5785	16.32	5777.04	5793.36	0.5	PASS
	Ant2	5785	17.36	5776.40	5793.76	0.5	PASS
	Ant1	5825	17.00	5816.44	5833.44	0.5	PASS
	Ant2	5825	17.52	5816.20	5833.72	0.5	PASS
11AC40MIMO	Ant1	5755	35.04	5737.48	5772.52	0.5	PASS
	Ant2	5755	35.04	5737.48	5772.52	0.5	PASS
	Ant1	5795	35.04	5777.48	5812.52	0.5	PASS
	Ant2	5795	35.04	5777.48	5812.52	0.5	PASS
11AC80MIMO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	0.5	PASS
11AX20SU	Ant1	5745	18.76	5735.56	5754.32	0.5	PASS
	Ant2	5745	18.88	5735.48	5754.36	0.5	PASS
	Ant1	5785	18.84	5775.48	5794.32	0.5	PASS
	Ant2	5785	18.88	5775.48	5794.36	0.5	PASS
	Ant1	5825	18.80	5815.56	5834.36	0.5	PASS
	Ant2	5825	18.96	5815.44	5834.40	0.5	PASS
11AX40SU	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS
	Ant2	5755	35.20	5737.40	5772.60	0.5	PASS
	Ant1	5795	35.20	5777.40	5812.60	0.5	PASS
	Ant2	5795	35.04	5777.48	5812.52	0.5	PASS
11AX80SU	Ant1	5775	76.32	5736.92	5813.24	0.5	PASS
	Ant2	5775	75.68	5737.40	5813.08	0.5	PASS



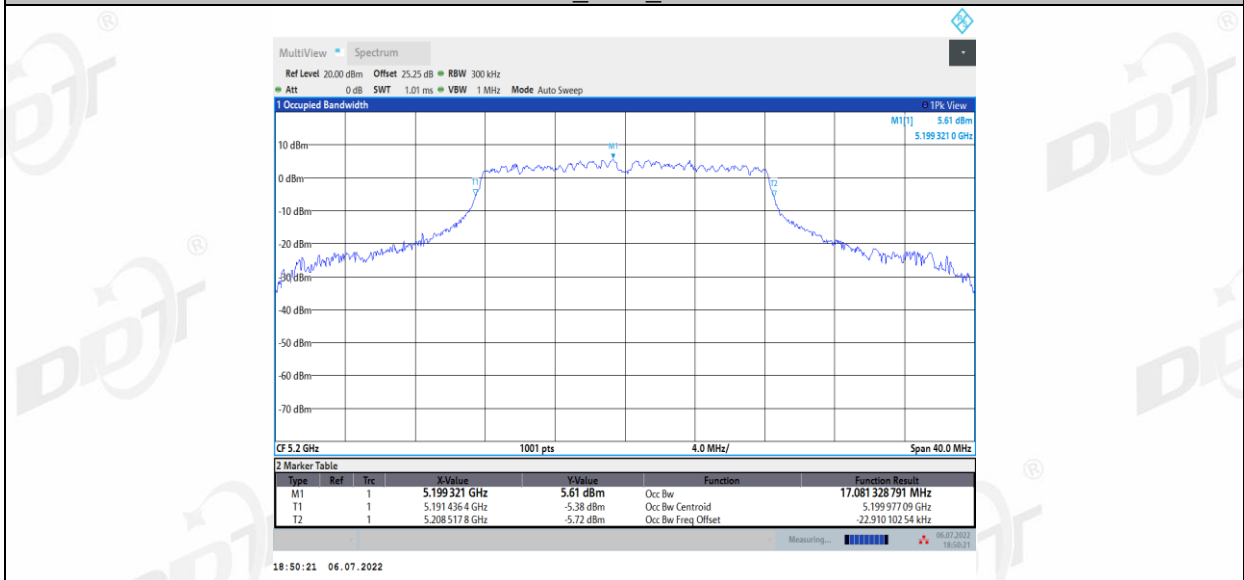
### 4.5. Original test data

99% OBW:

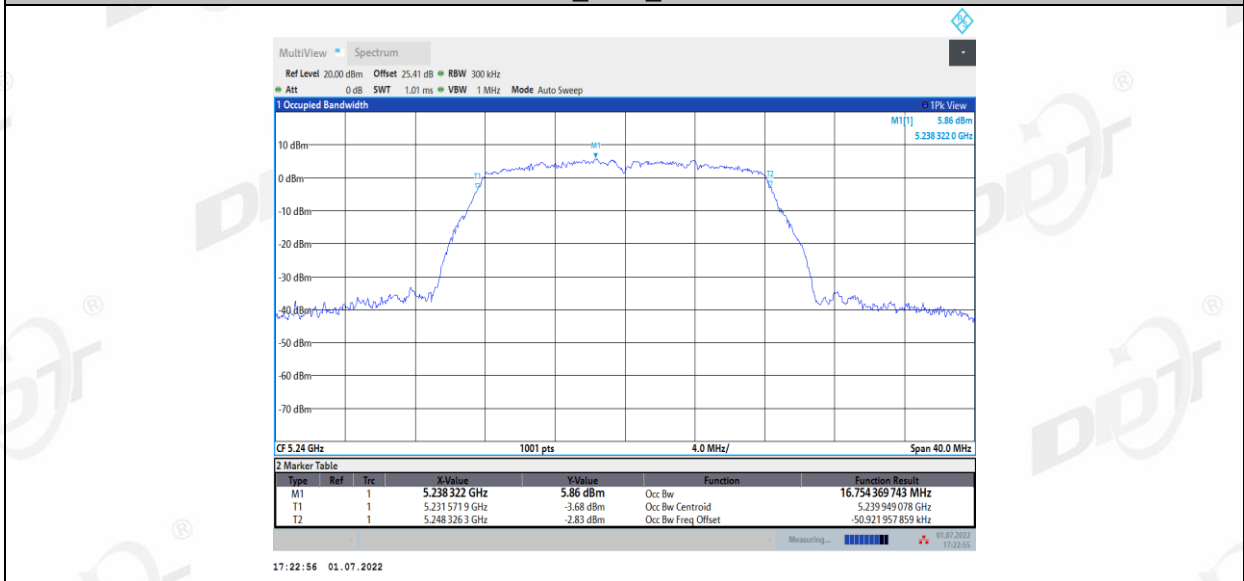




11A\_Ant2\_5200

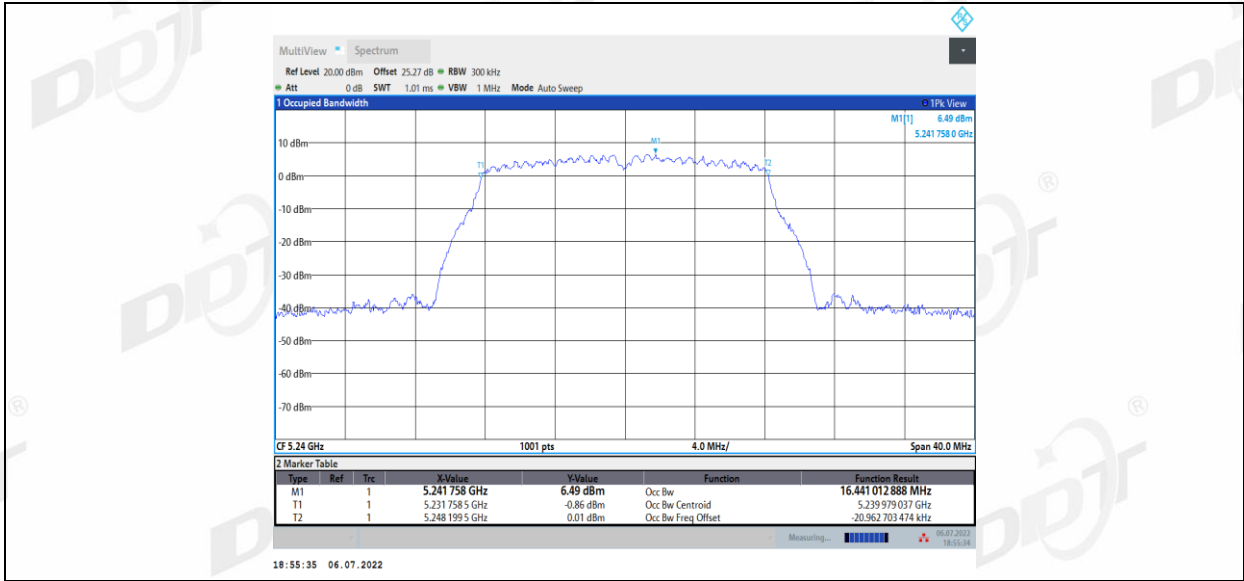


11A\_Ant1\_5240

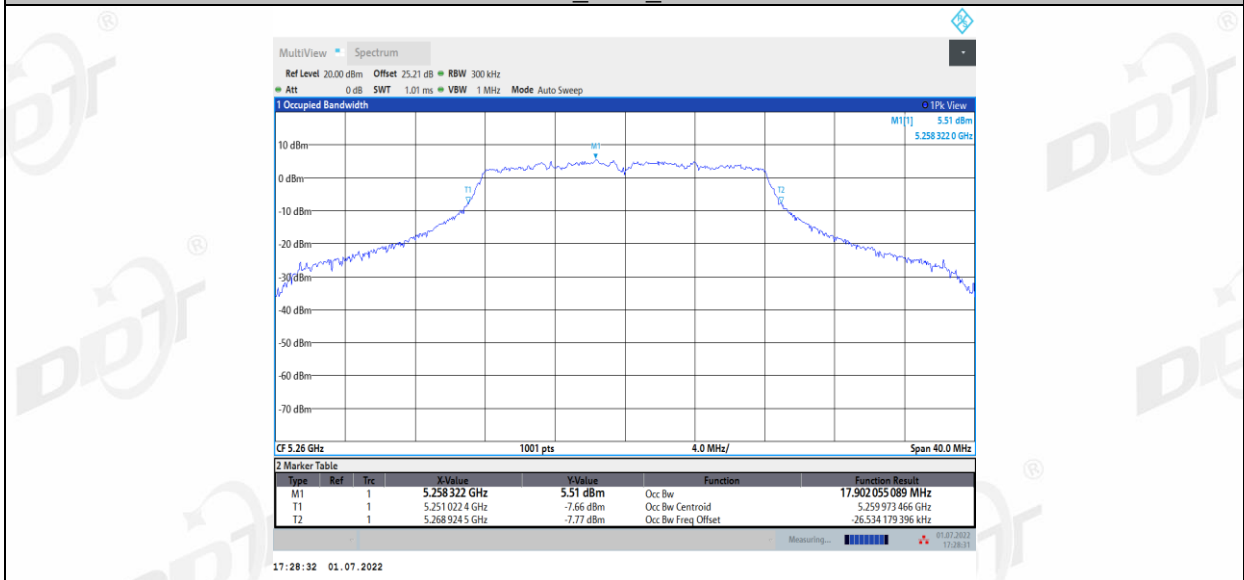


11A\_Ant2\_5240

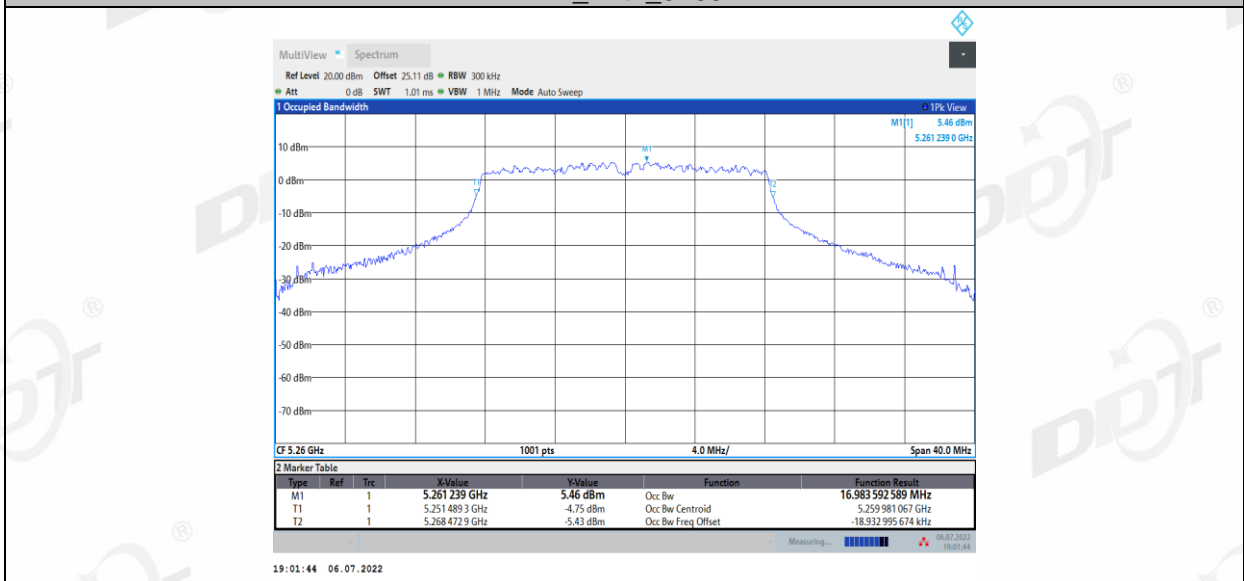




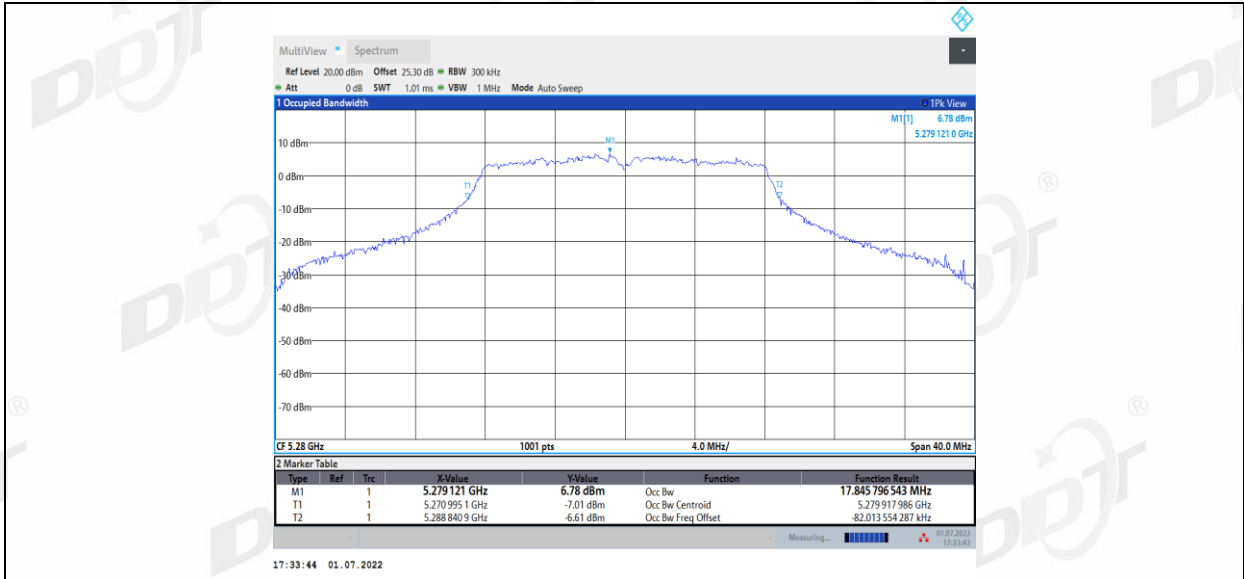
11A\_Ant1\_5260



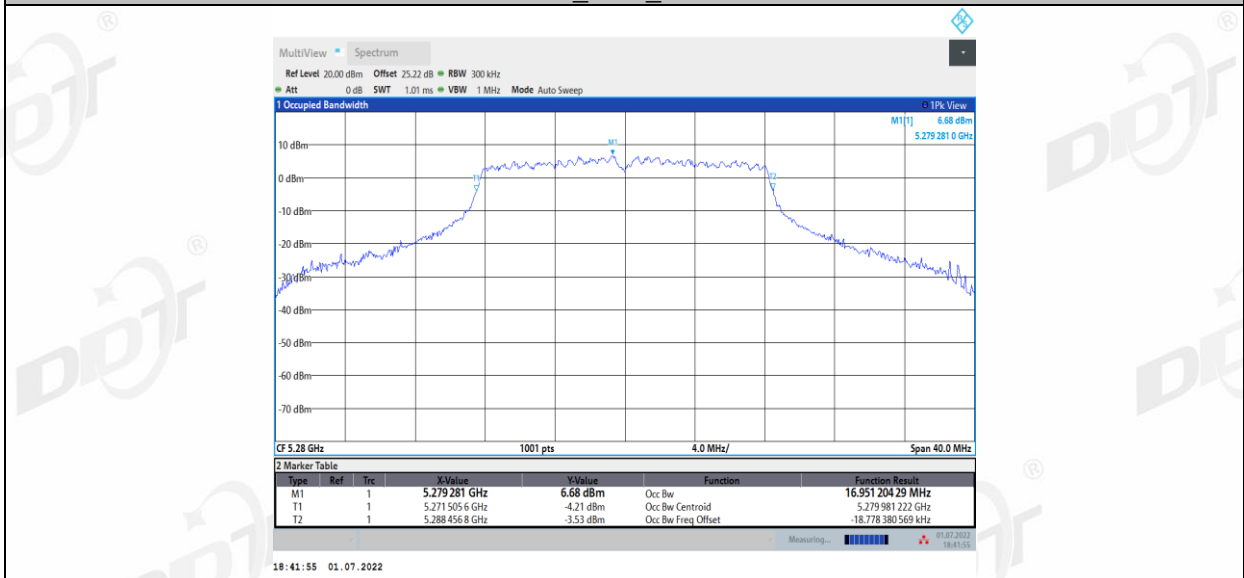
11A\_Ant2\_5260



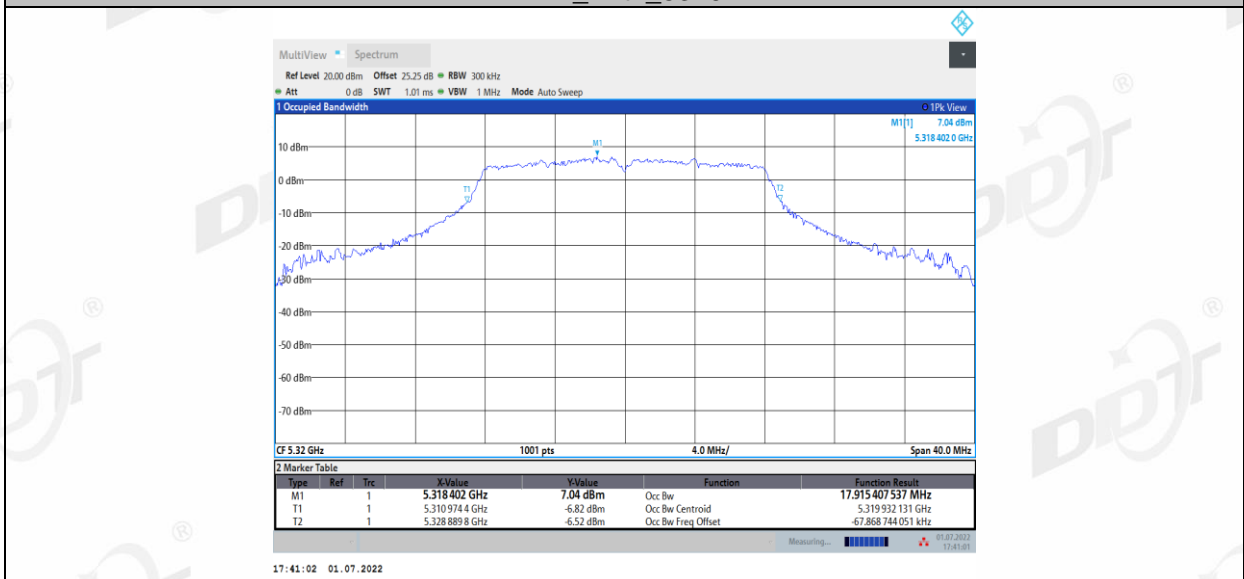
11A\_Ant1\_5280



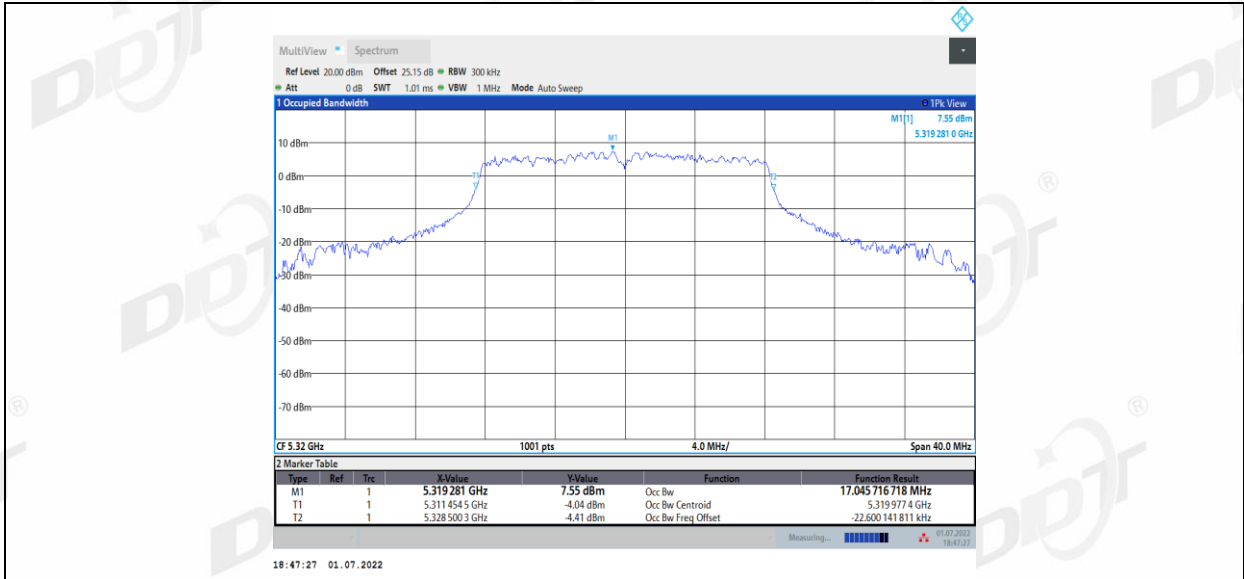
11A\_Ant2\_5280



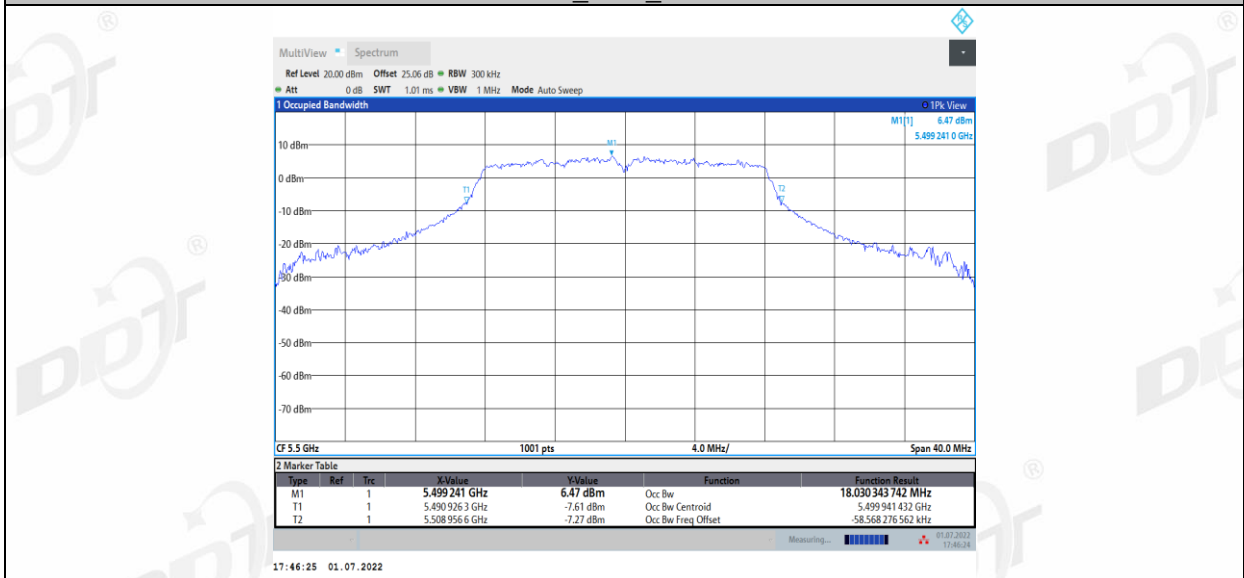
11A\_Ant1\_5320



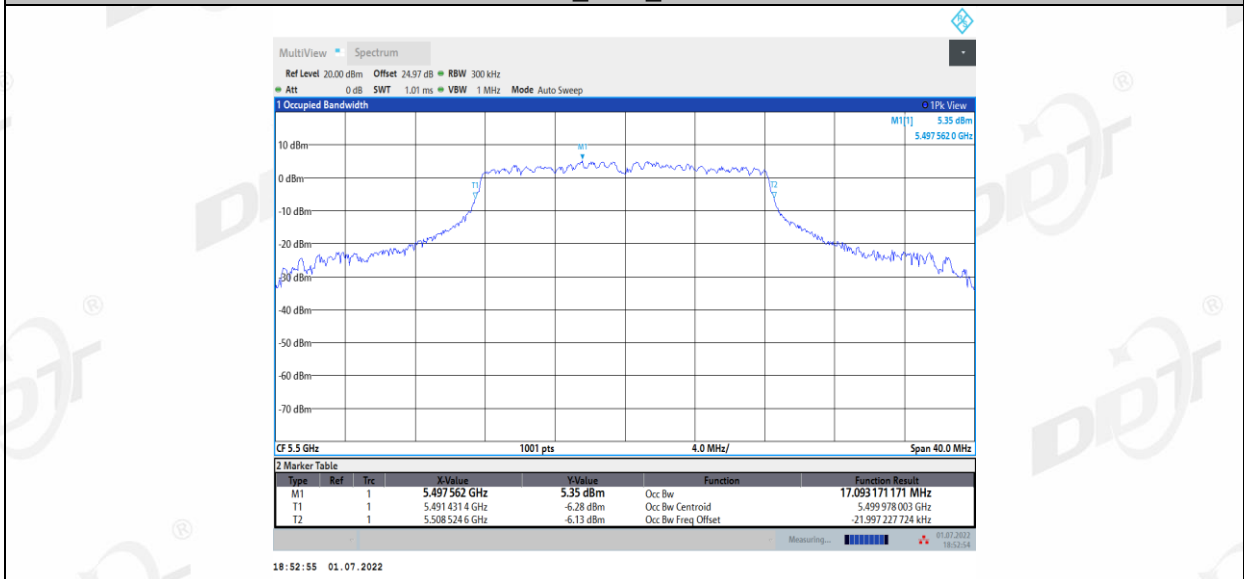
11A\_Ant2\_5320



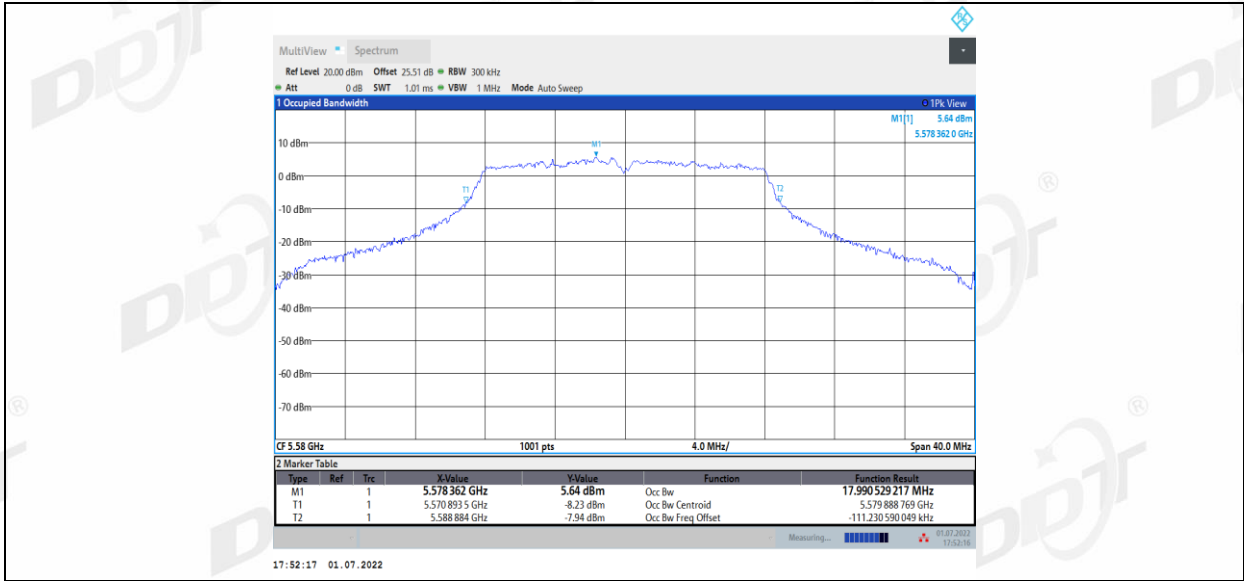
11A\_Ant1\_5500



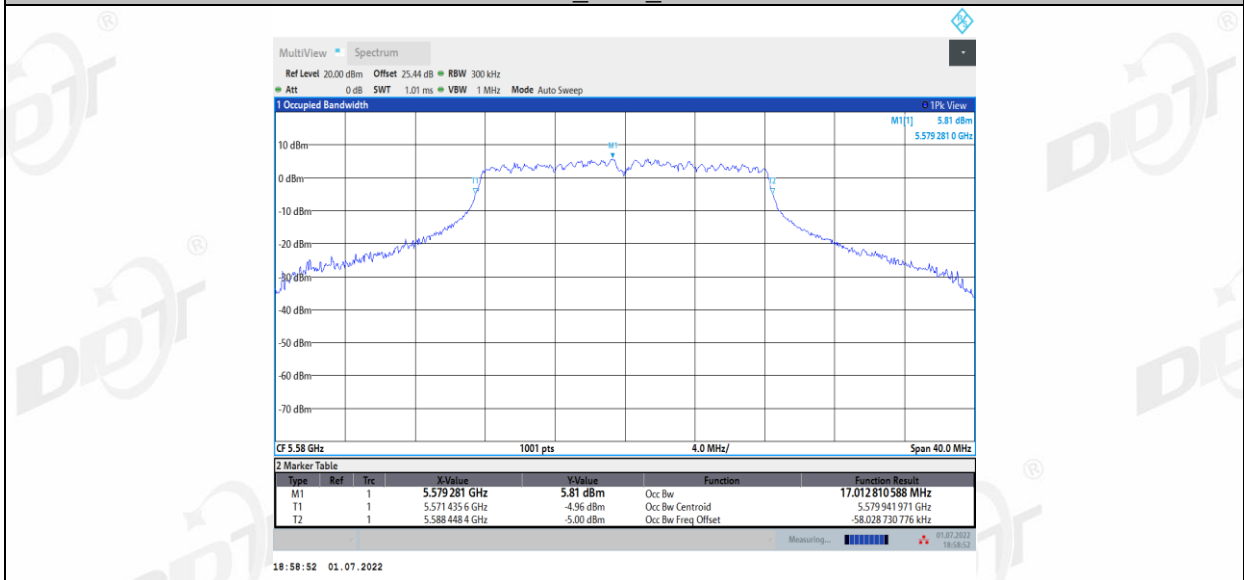
11A\_Ant2\_5500



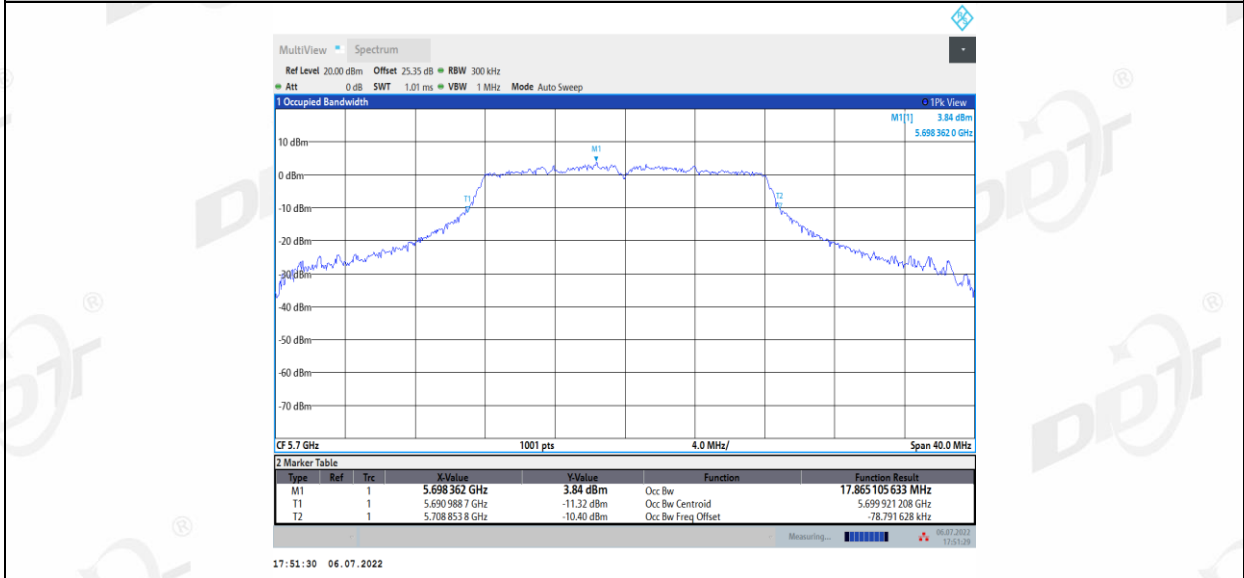
11A\_Ant1\_5580



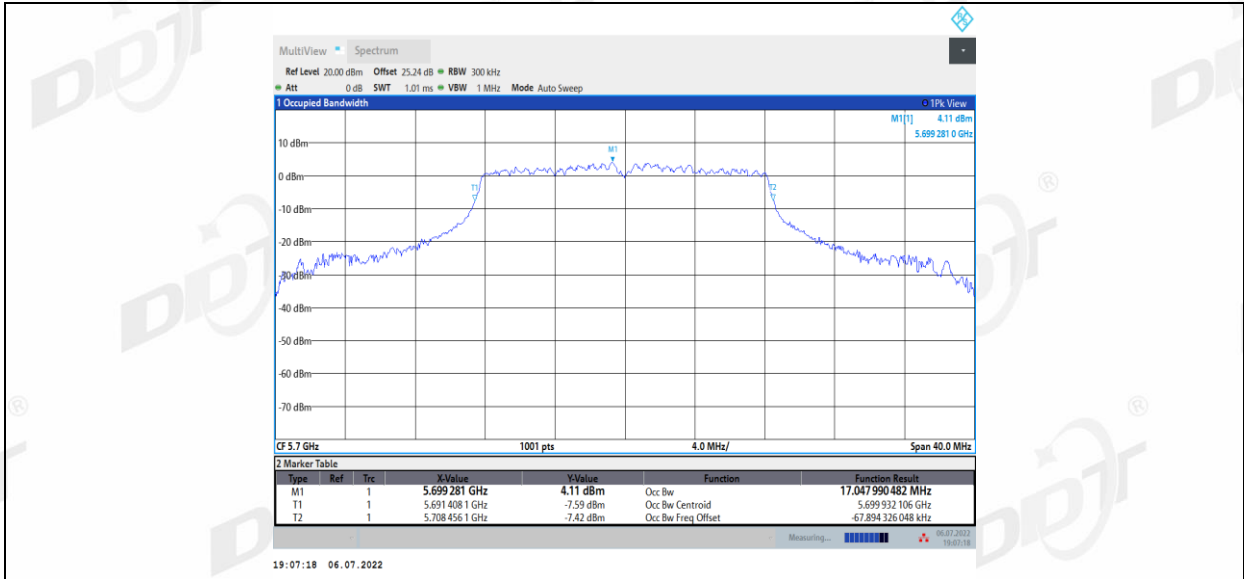
11A\_Ant2\_5580



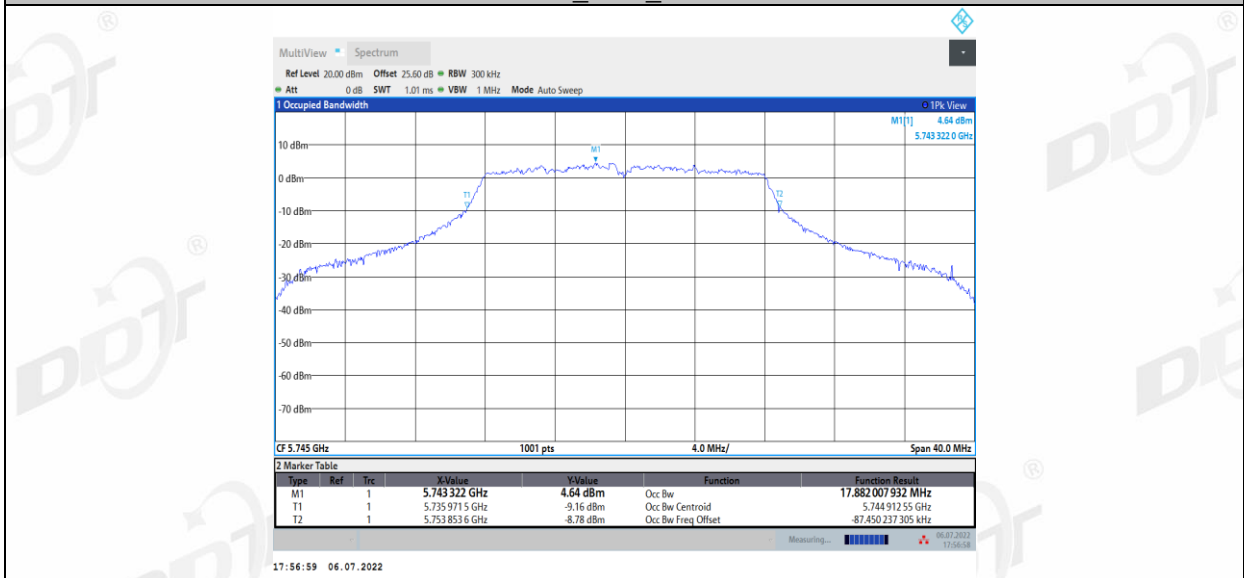
11A\_Ant1\_5700



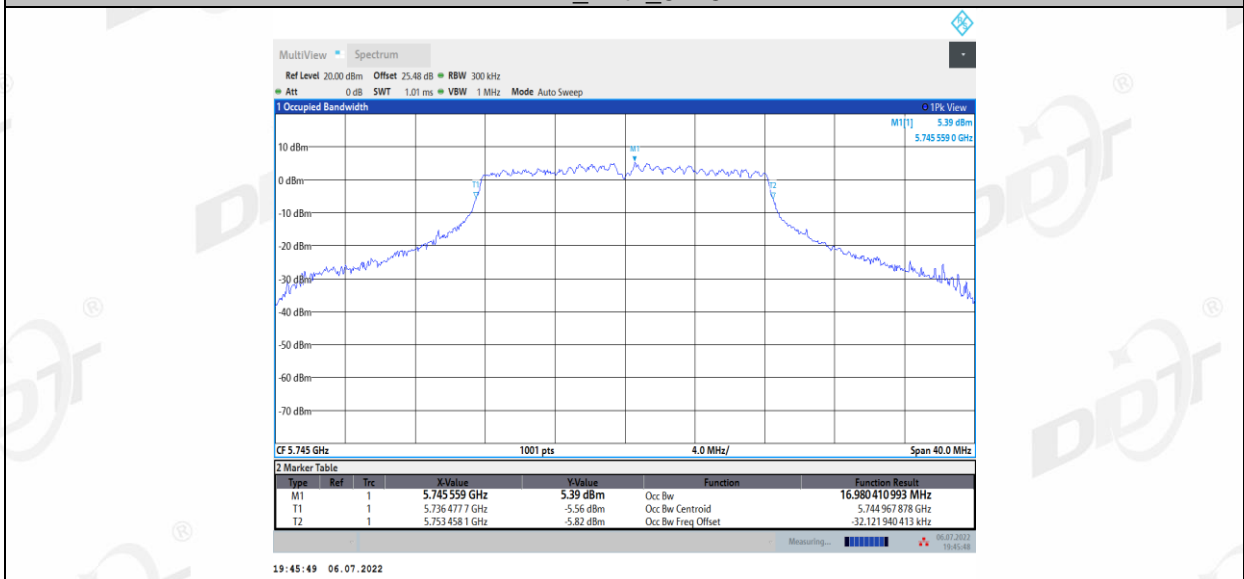
11A\_Ant2\_5700



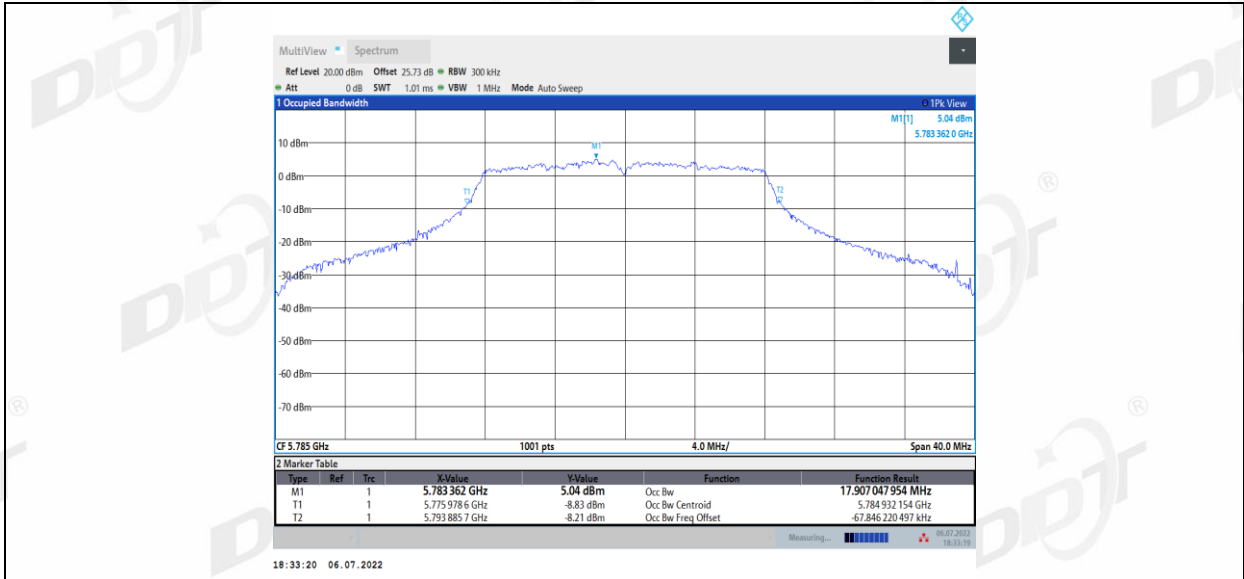
11A\_Ant1\_5745



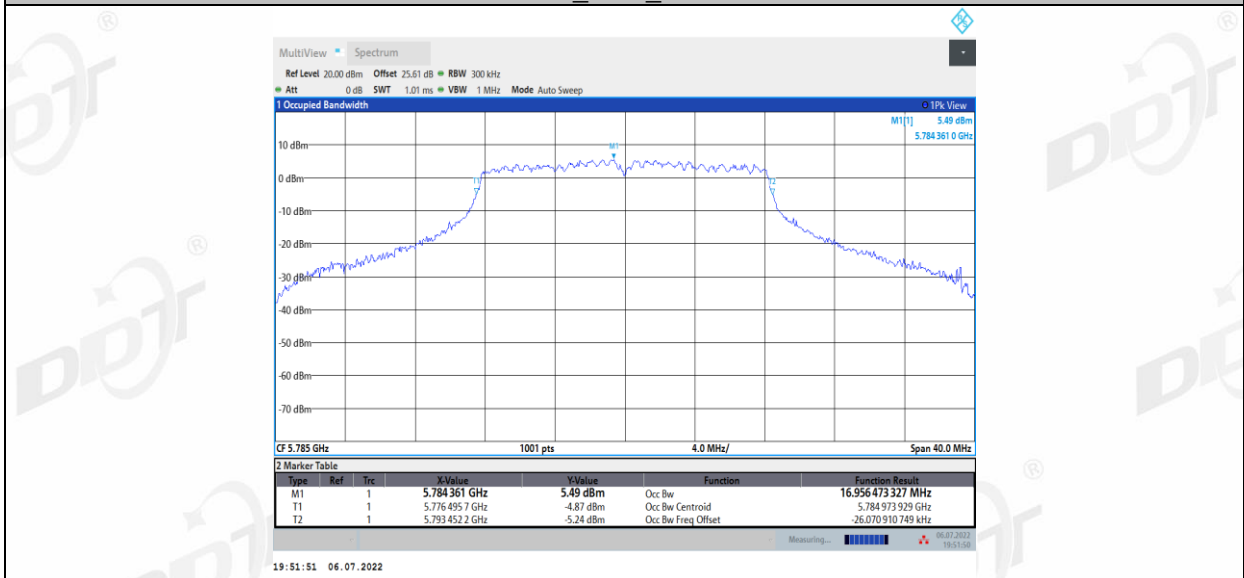
11A\_Ant2\_5745



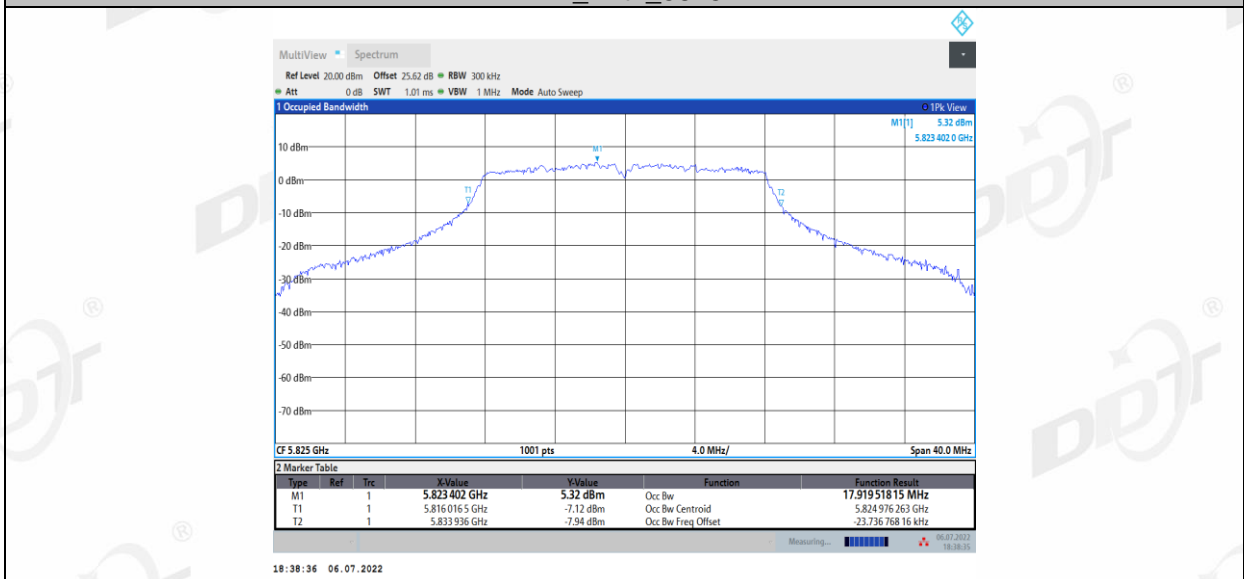
11A\_Ant1\_5785



11A\_Ant2\_5785

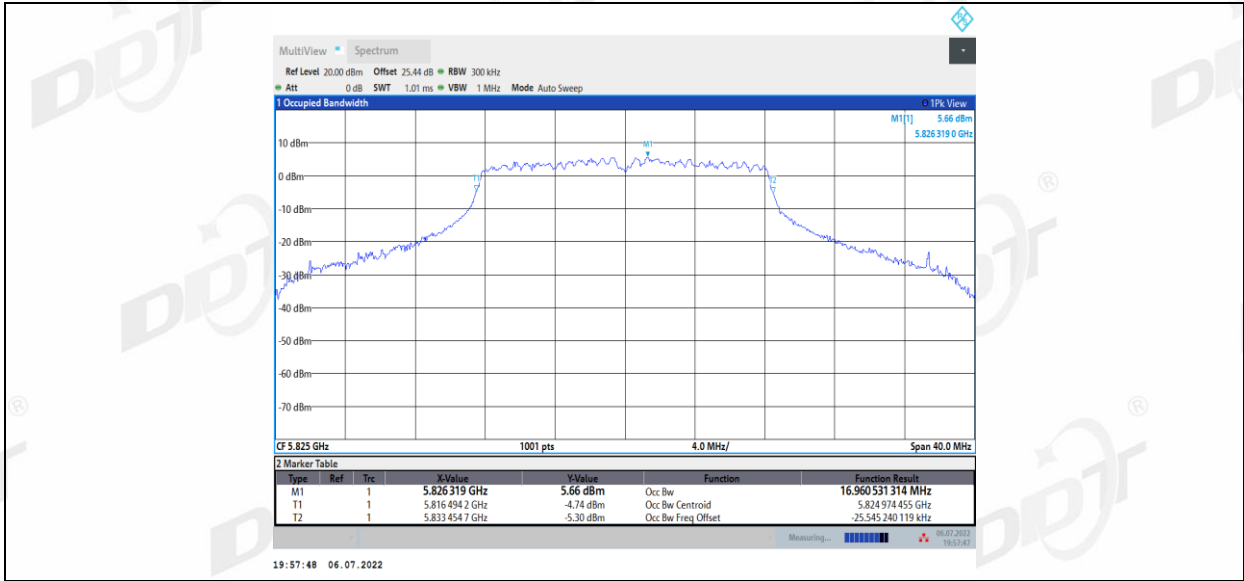


11A\_Ant1\_5825

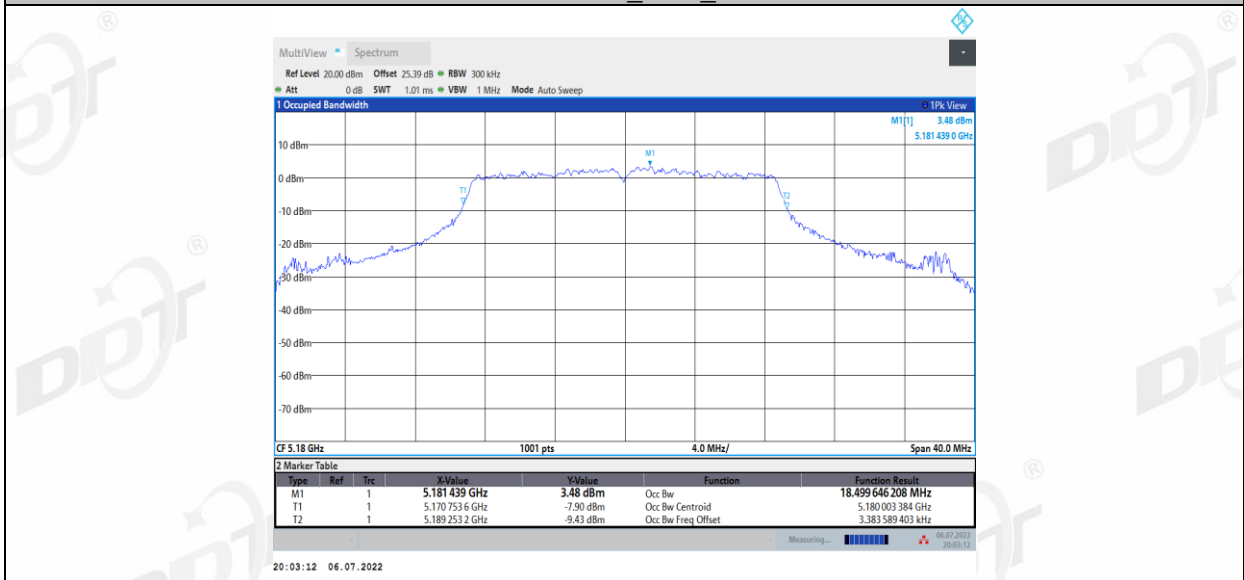


11A\_Ant2\_5825

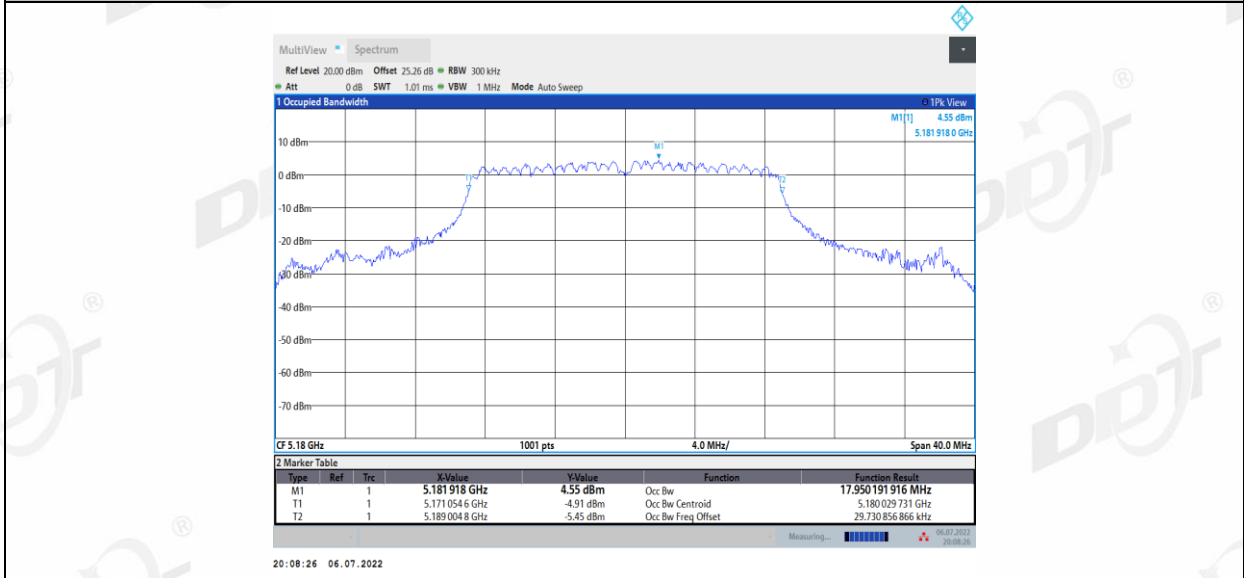




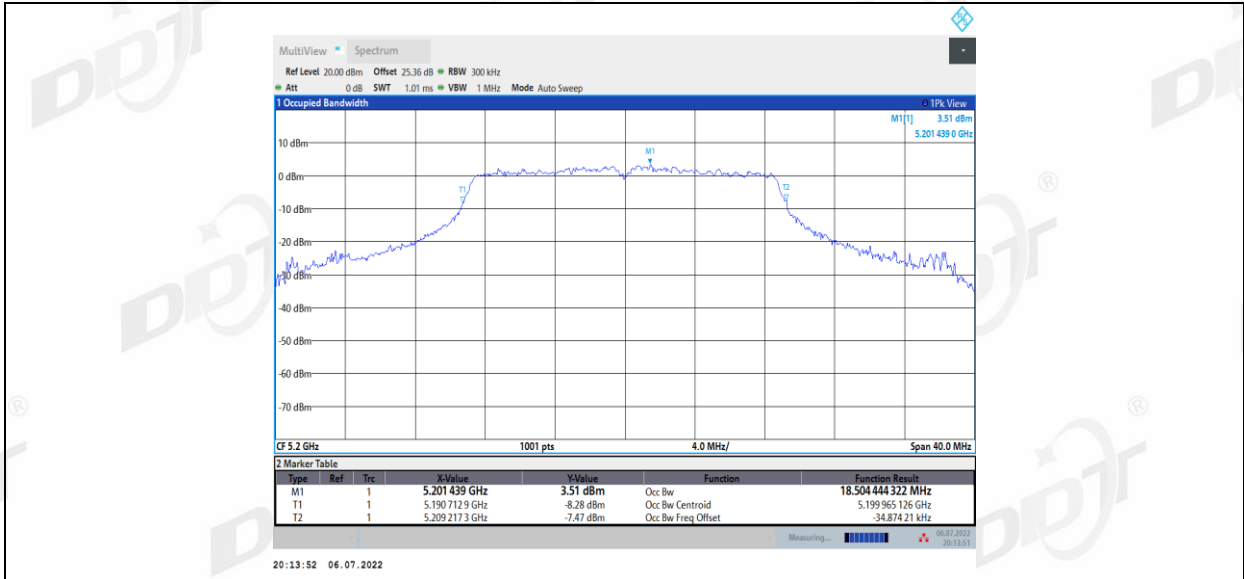
11N20MIMO\_Ant1\_5180



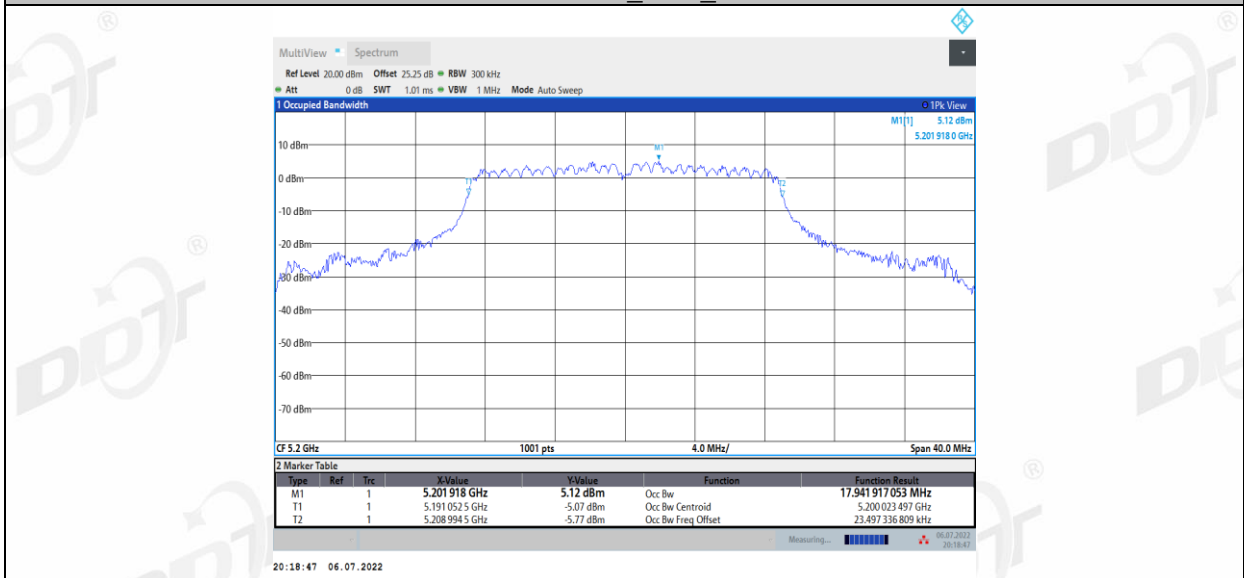
11N20MIMO\_Ant2\_5180



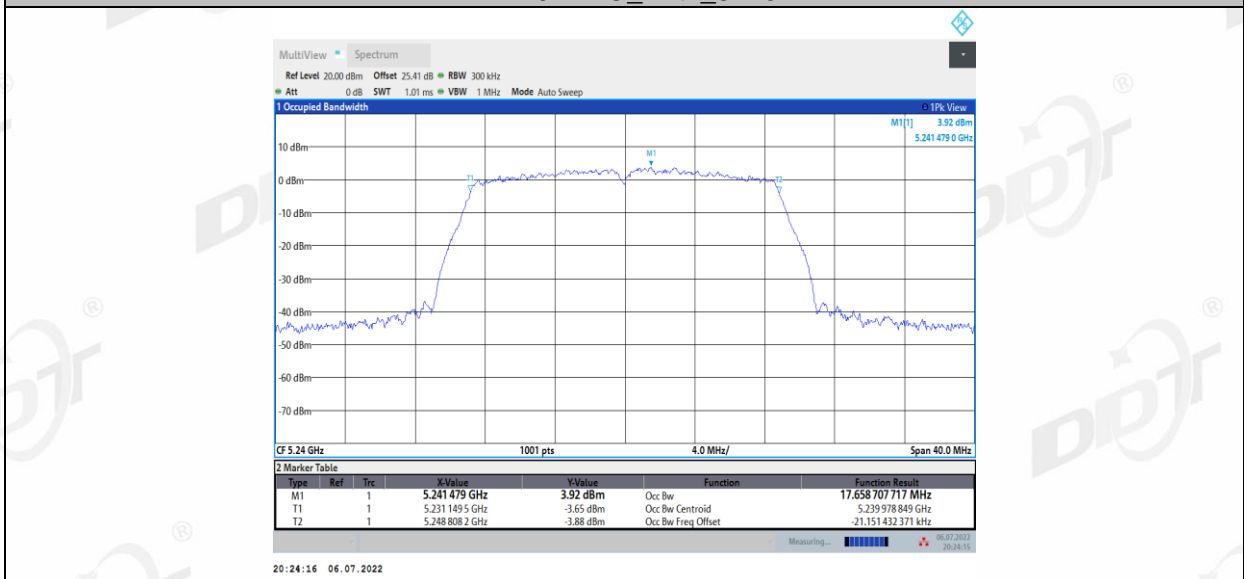
11N20MIMO\_Ant1\_5200



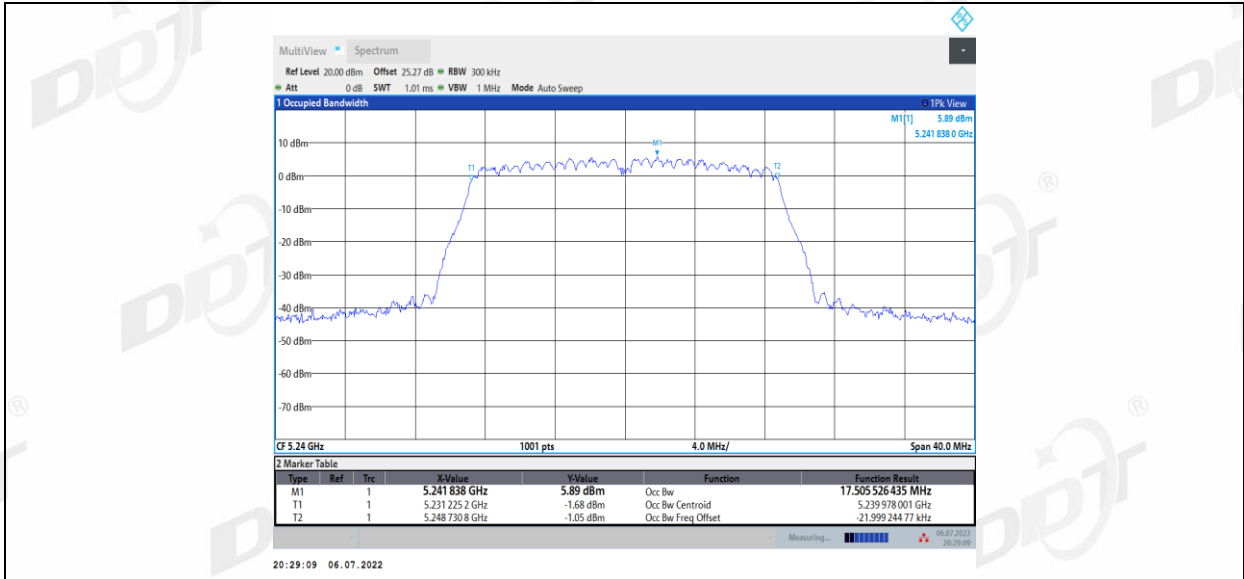
11N20MIMO\_Ant2\_5200



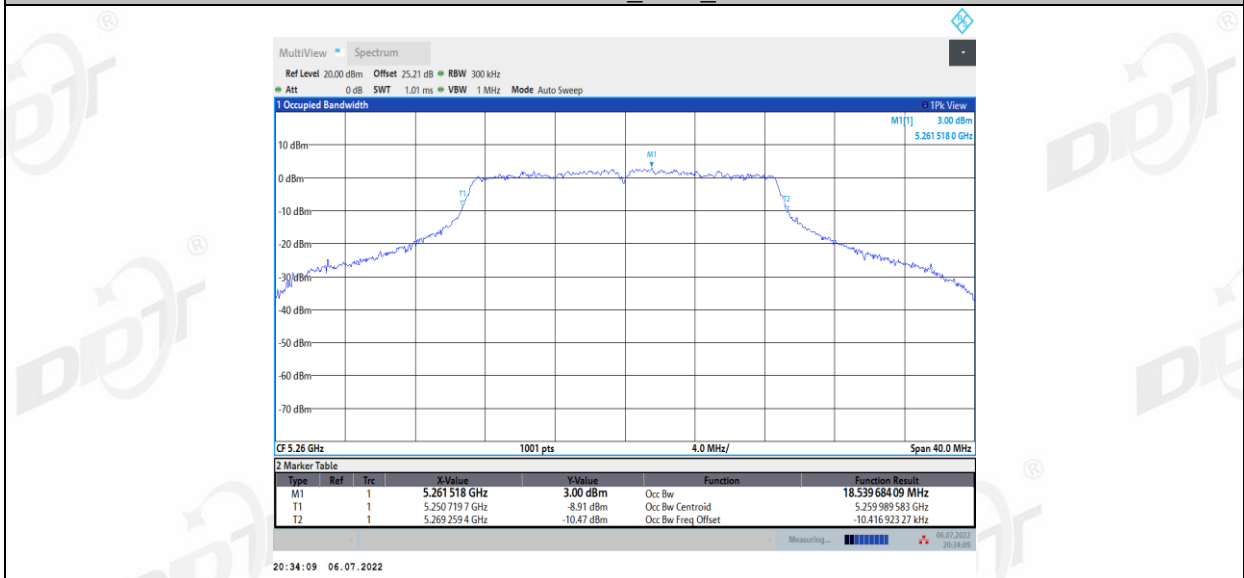
11N20MIMO\_Ant1\_5240



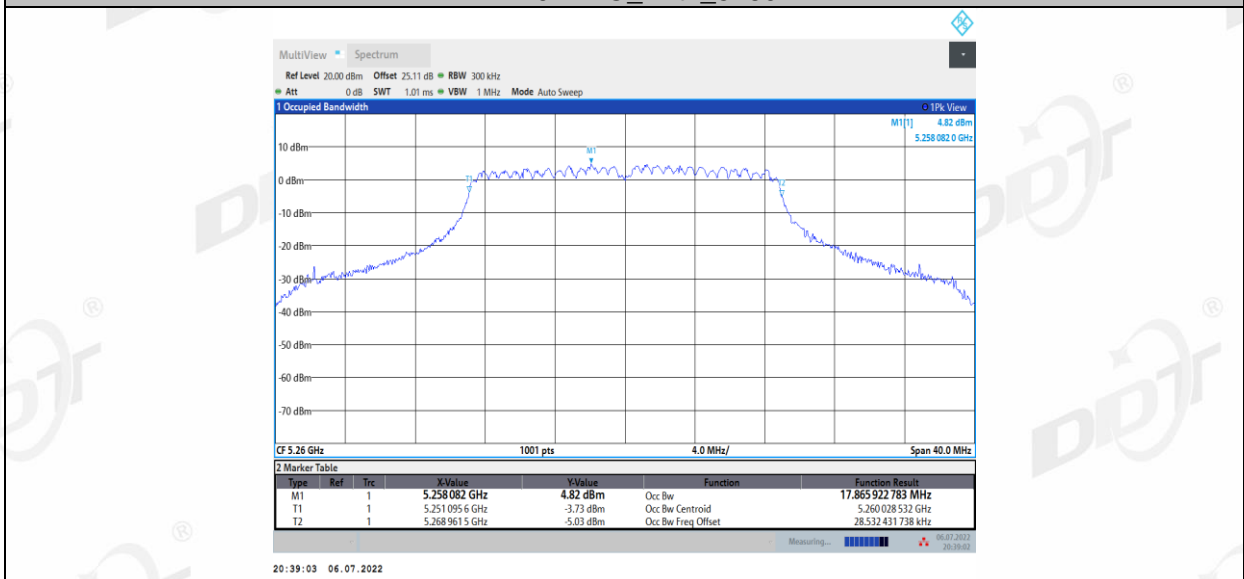
11N20MIMO\_Ant2\_5240



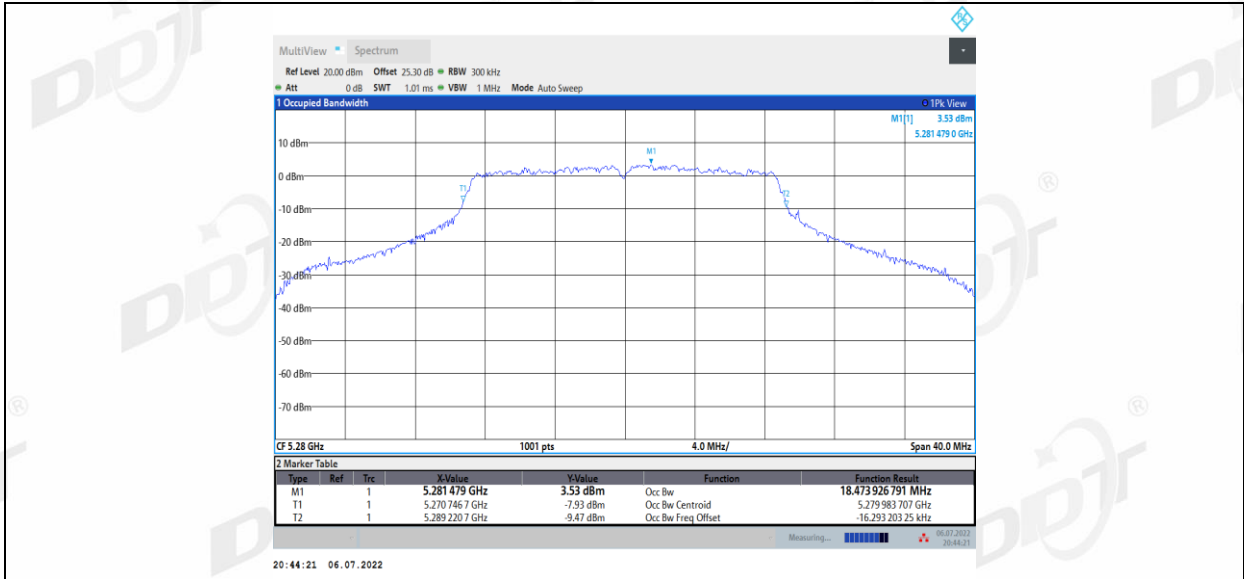
11N20MIMO\_Ant1\_5260



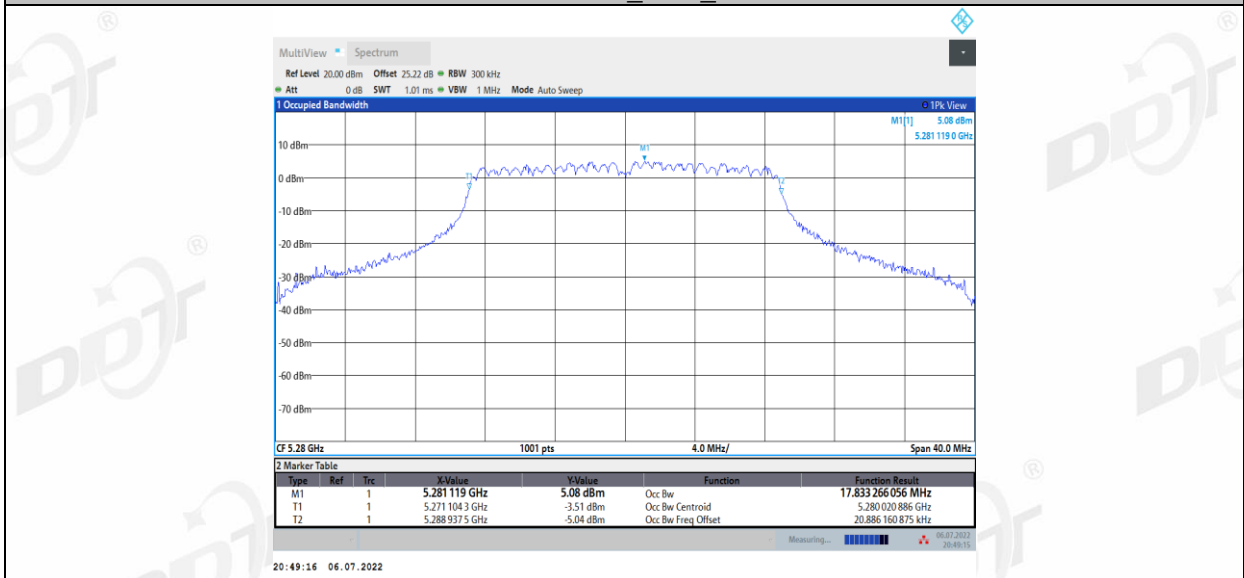
11N20MIMO\_Ant2\_5260



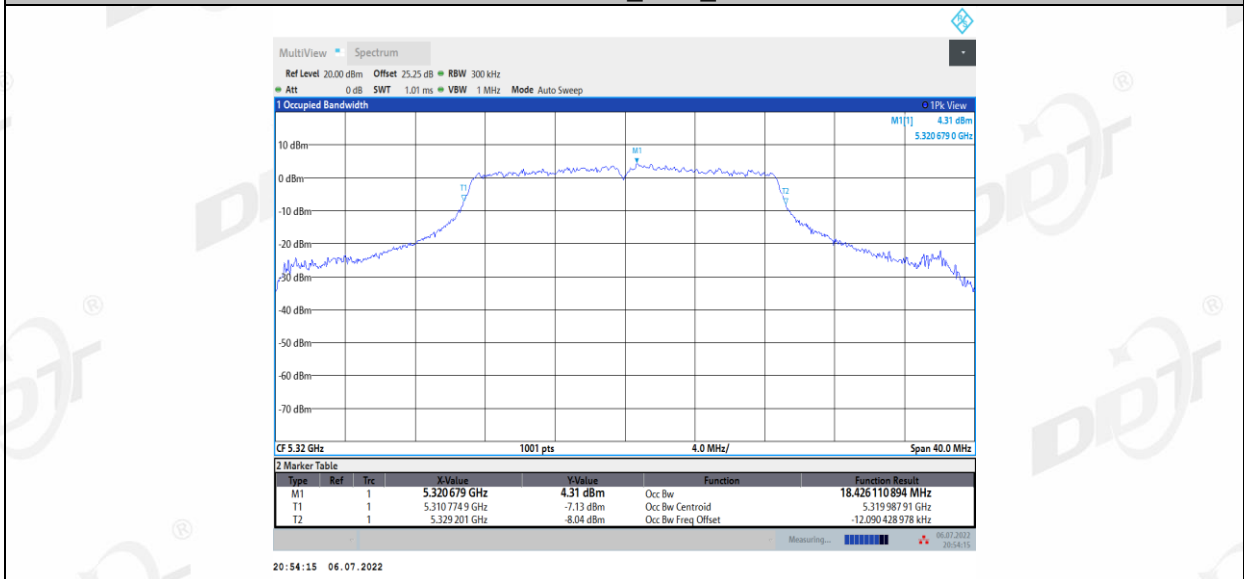
11N20MIMO\_Ant1\_5280



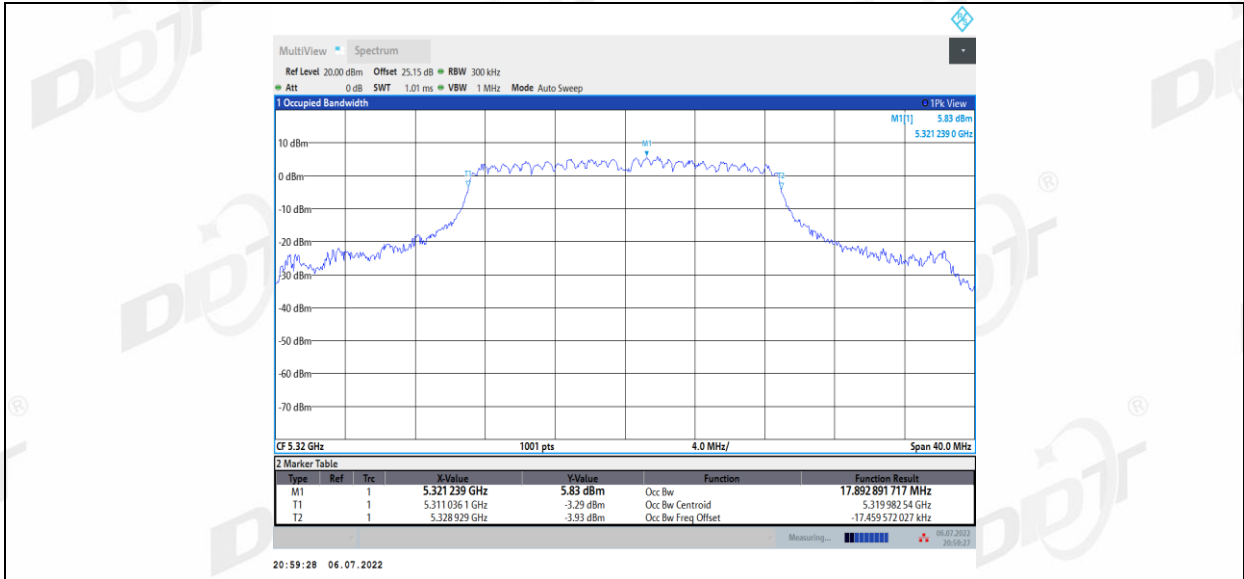
11N20MIMO\_Ant2\_5280



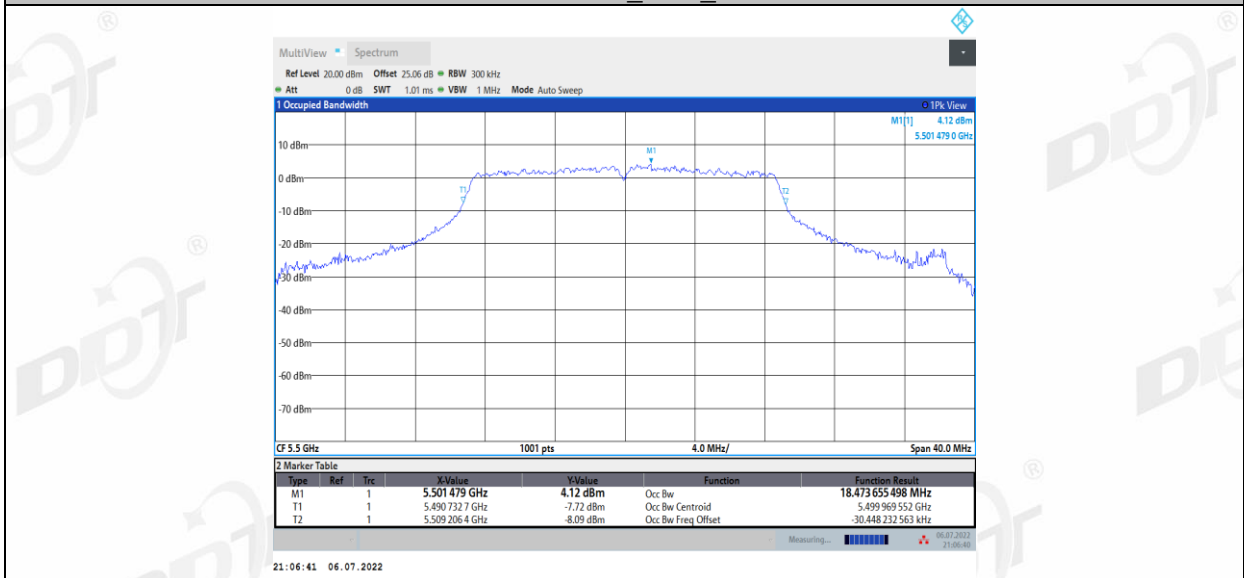
11N20MIMO\_Ant1\_5320



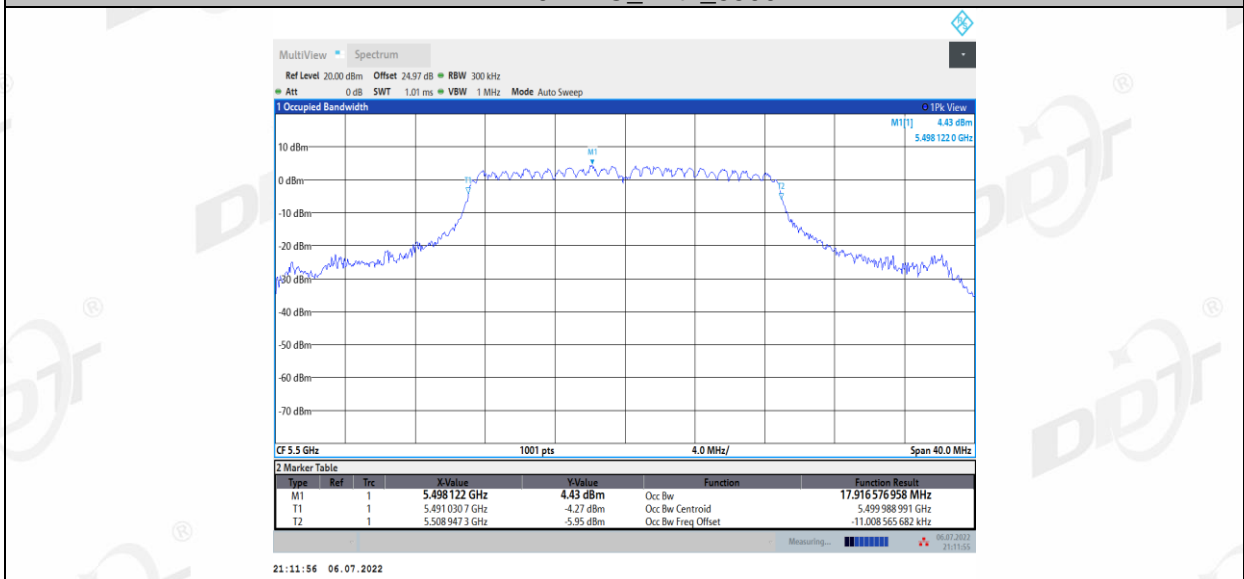
11N20MIMO\_Ant2\_5320



11N20MIMO\_Ant1\_5500

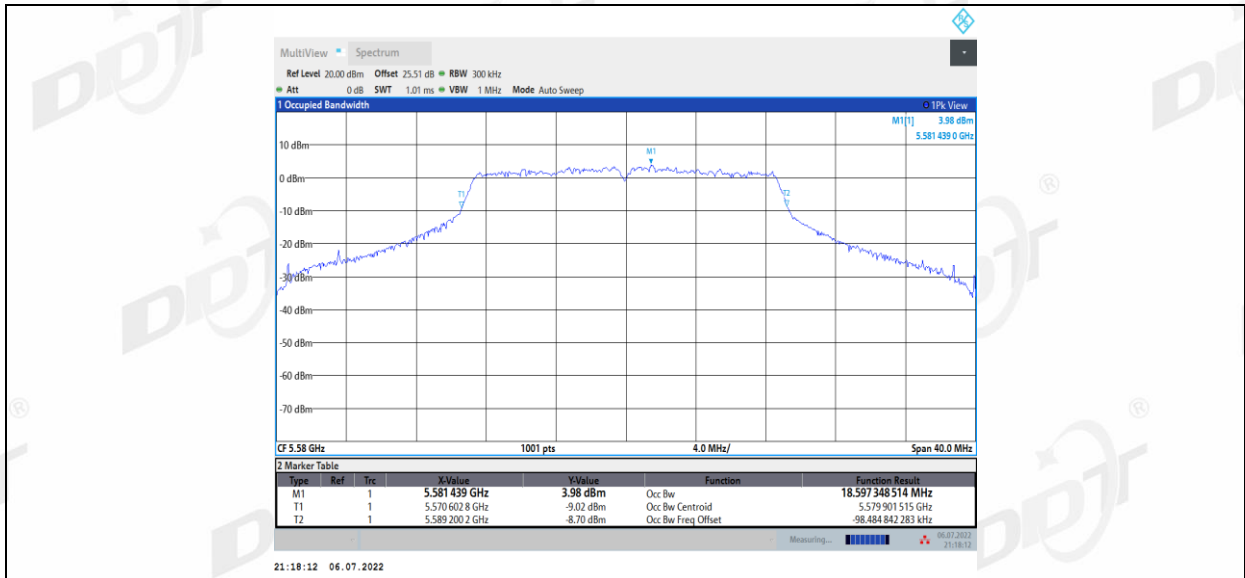


11N20MIMO\_Ant2\_5500

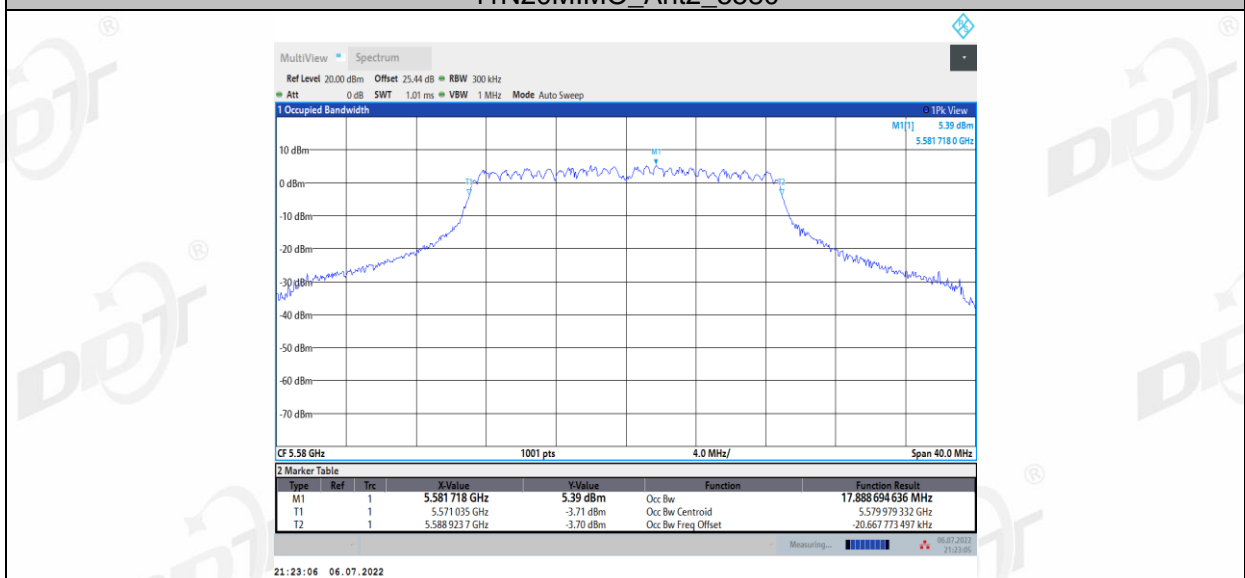


11N20MIMO\_Ant1\_5580

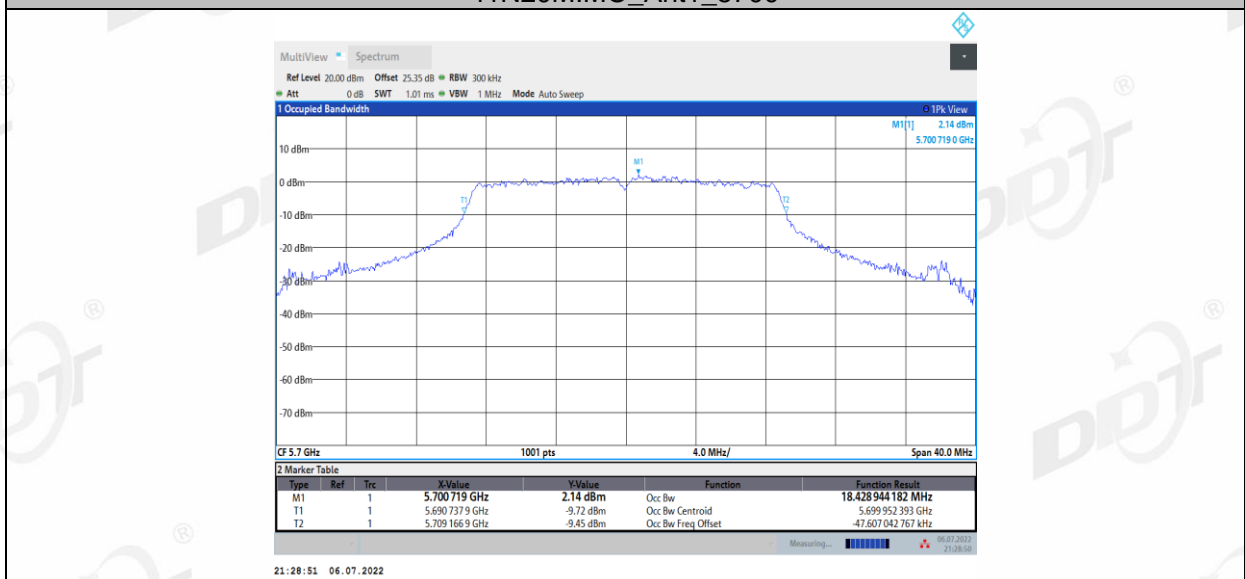




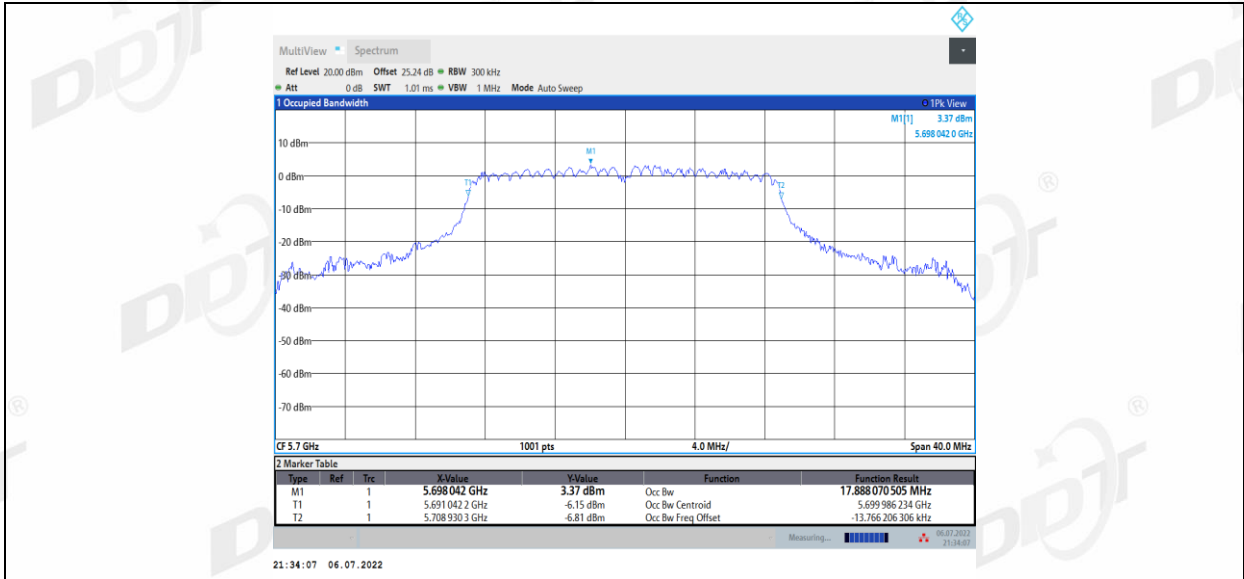
11N20MIMO\_Ant2\_5580



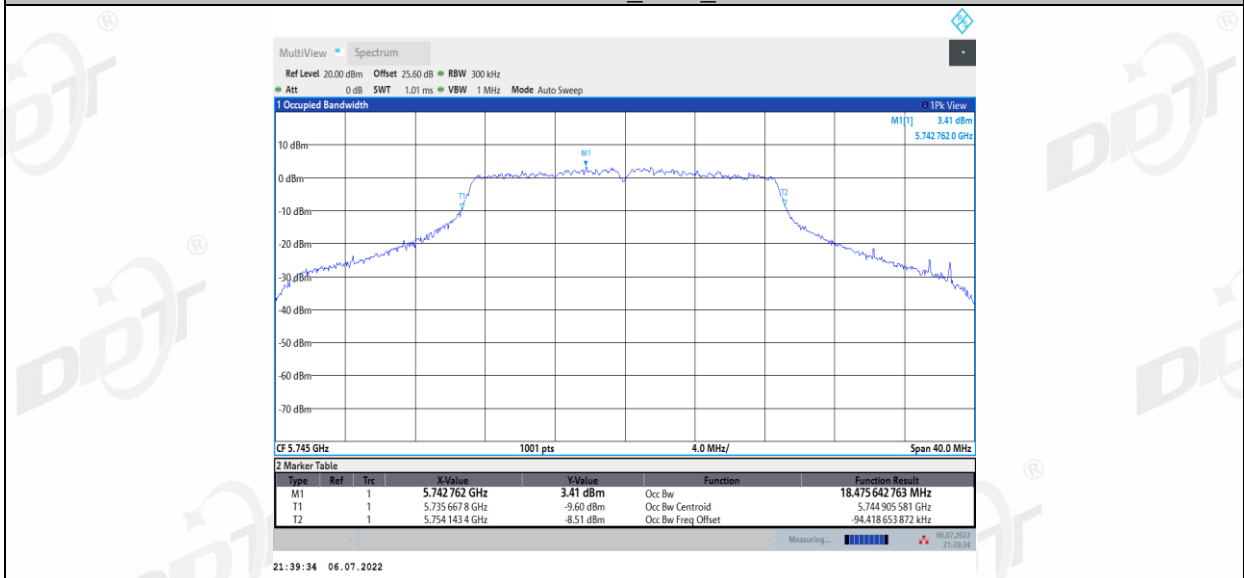
11N20MIMO\_Ant1\_5700



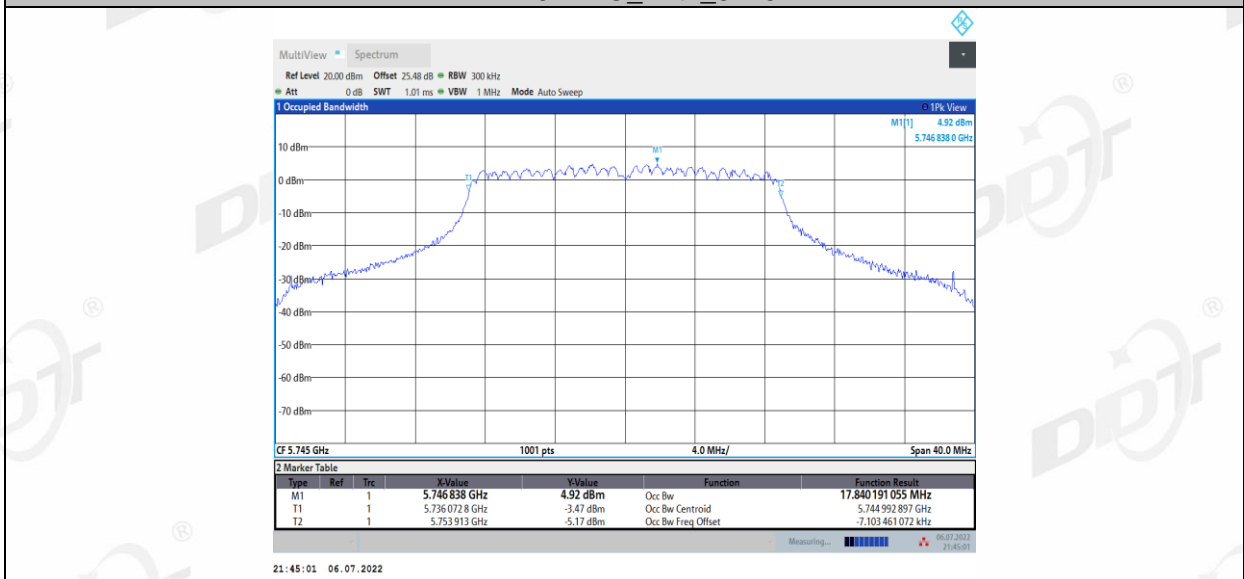
11N20MIMO\_Ant2\_5700



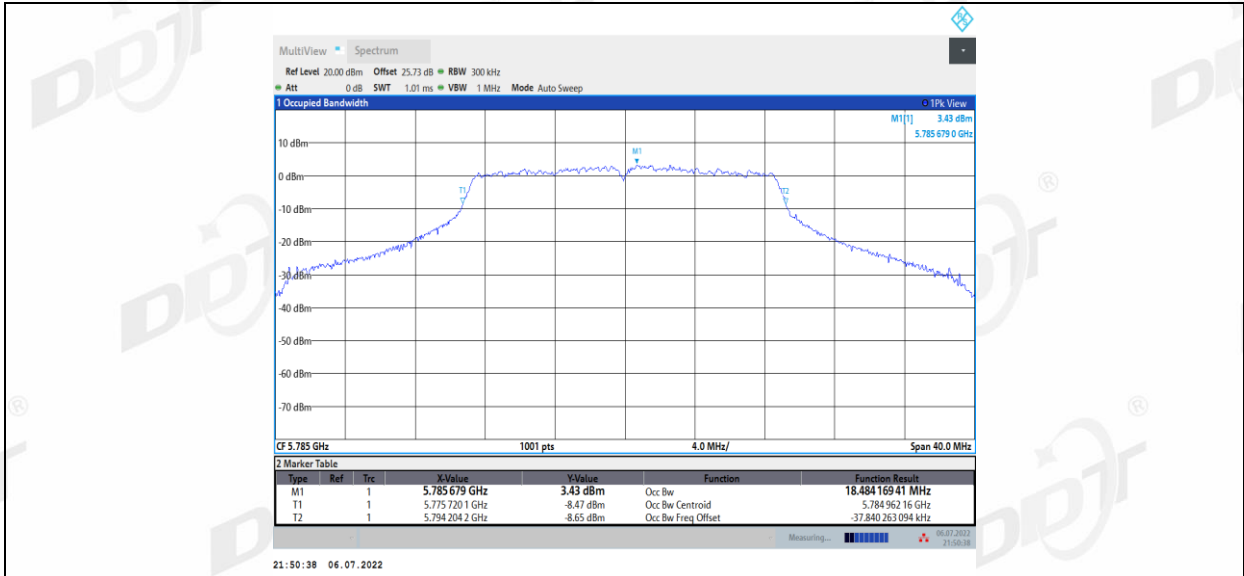
11N20MIMO\_Ant1\_5745



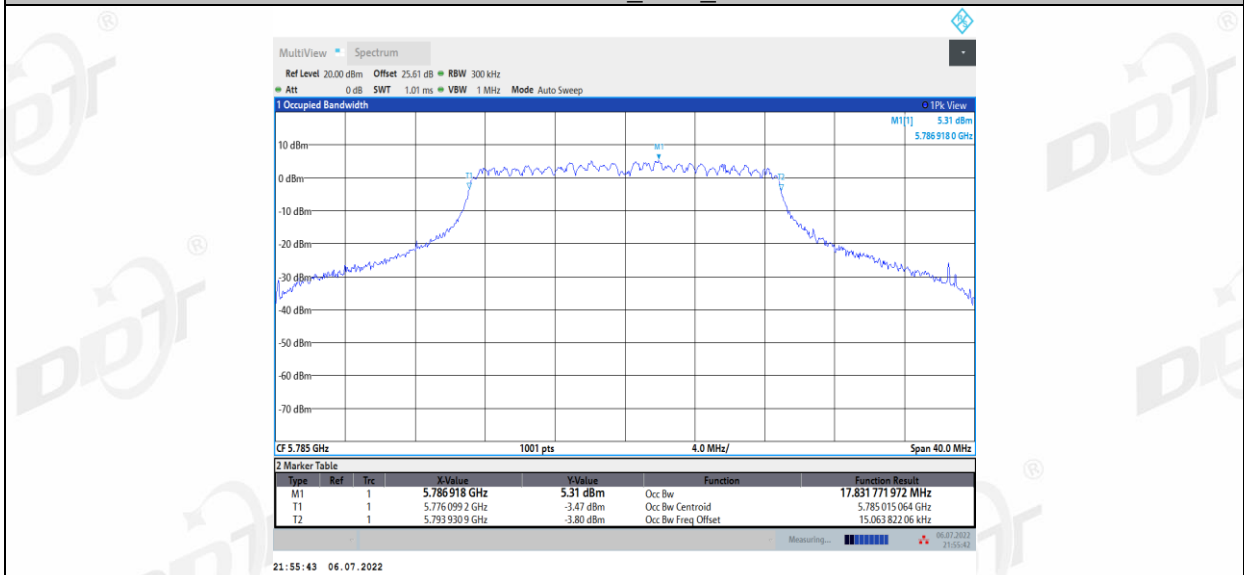
11N20MIMO\_Ant2\_5745



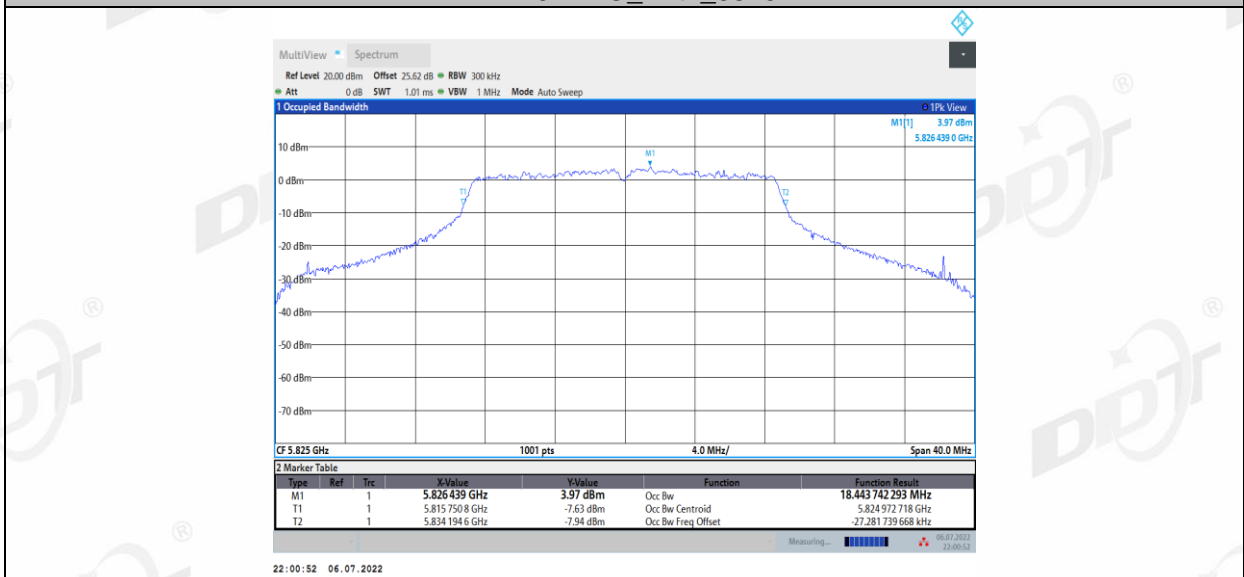
11N20MIMO\_Ant1\_5785



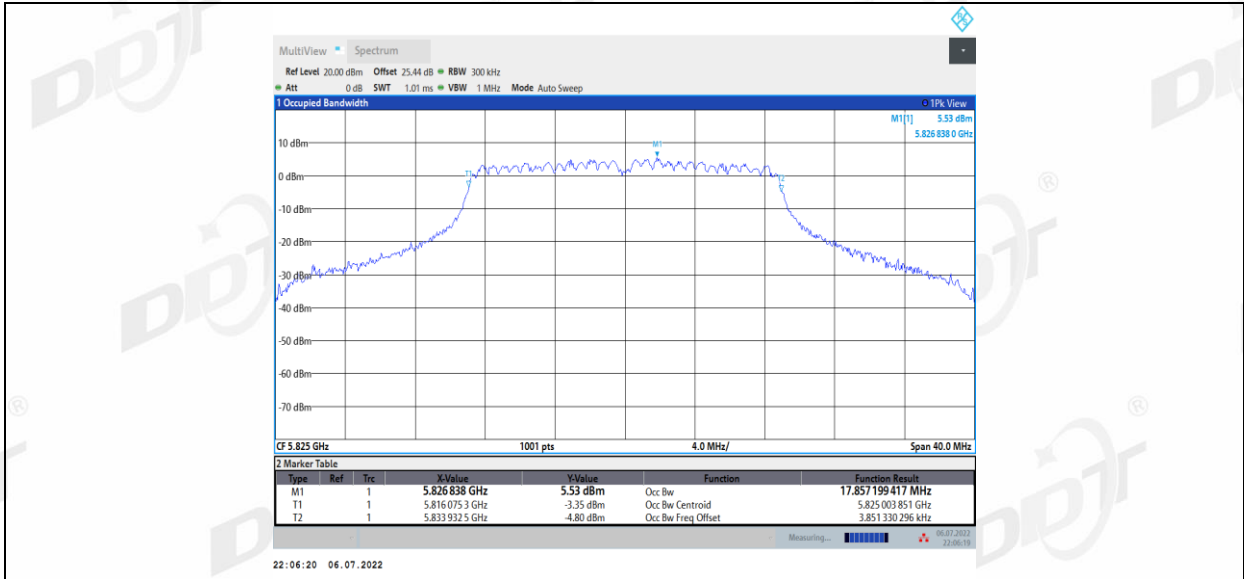
11N20MIMO\_Ant2\_5785



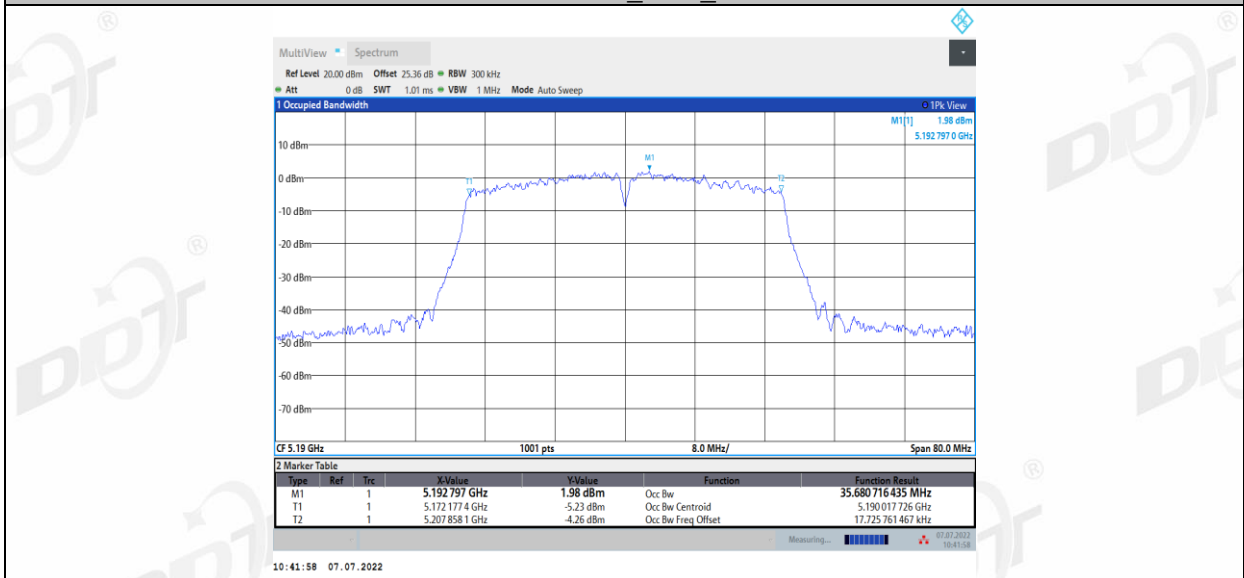
11N20MIMO\_Ant1\_5825



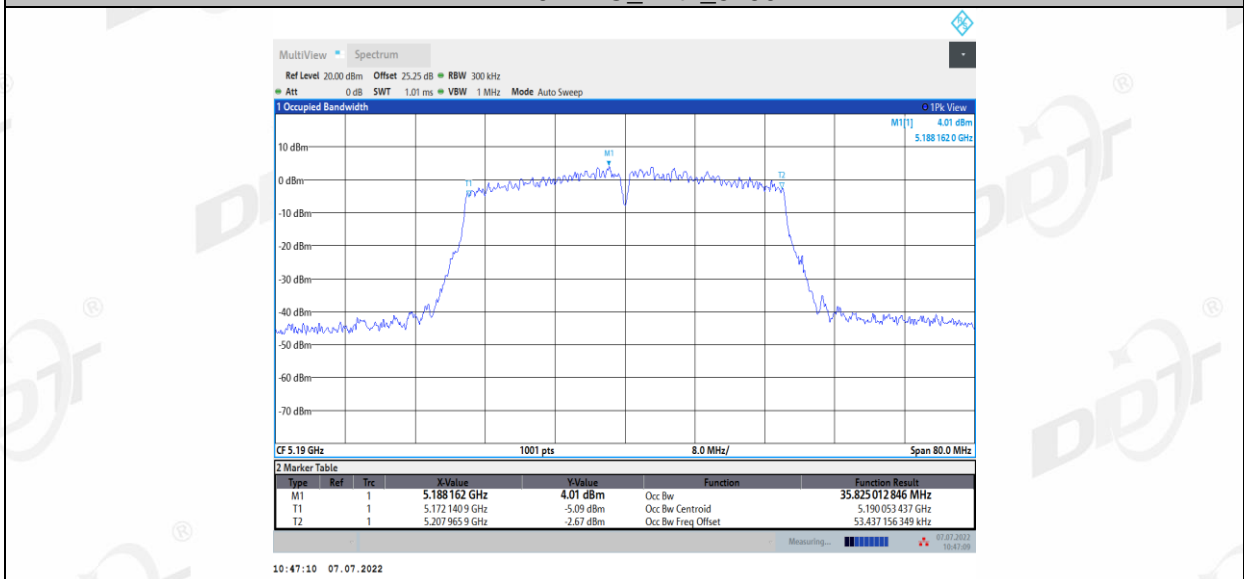
11N20MIMO\_Ant2\_5825



11N40MIMO\_Ant1\_5190



11N40MIMO\_Ant2\_5190



11N40MIMO\_Ant1\_5230