

RF TEST REPORT

Test Equipment : xPON ONT
Model Name : H660GX
HVIN(IC) : H660GX, HX-H660GX-NA, HX-H660GX-EU,
HX-H660GX-UK, HX-H660GX-00
FCC ID : PJZH660GX
IC : 3691A-H660GX
Date of receipt : 2022-04-01
Test duration : 2022-04-25 ~ 2022-05-24
Date of issue : 2022-06-14

Applicant : DZS Inc.

5700 Tennyson Parkway Suite 400, Plano, TX 75024 USA

Test Laboratory : Lab-T, Inc.

2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si
Gyeonggi-do 17036, Korea

Test specification : FCC Part 15 Subpart E 15.407

RSS-247 Issue 2 (2017-02), RSS-GEN Issue 5 A2 (2021-02)

RF Output Power : 23.16 dBm

Test result : Pass

The above equipment was tested by Lab-T Testing Laboratory for compliance
with the requirements of FCC, IC Rules and Regulations.

The test results presented in this test report are limited only to the sample supplied by applicant
and the use of this test report is inhibited other than its purpose.

This test report shall not be reproduced except in full, without the written approval of Lab-T, Inc

Tested by:



Engineer
HyunWoo Lee

Reviewed by:



Technical Manager
SangHoon Yu

CONTENTS

1. Revision history.....	3
2. Information.....	4
2.1 Applicant Information.....	4
2.2 Test Laboratory information.....	4
2.3 Test Location.....	4
3. Information About Test Equipment	5
3.1 Equipment Information	5
3.2 Antenna Information	5
3.3 Test frequency.....	5
3.4 Worst-case.....	6
3.5 Tested Companion Device Information	6
3.6 Operating conditions for the EUT.....	6
4. Test Report.....	7
4.1 Summary	7
4.2 Measurement Uncertainty.....	7
4.3 Transmitter Requirements	8
4.3.1 Antenna Requirement.....	8
4.3.2 Maximum Conducted Output Power.....	10
4.3.3 Maximum Power Spectral Density(PSD).....	24
4.3.4 Emission Bandwidth.....	98
4.3.5 Frequency Stability	204
4.3.6 Spurious Emission, Band Edge, and Restricted bands	213
4.3.7 Conducted Emission	254
APPENDIX I.....	256

1. Revision history

Test Report No.	Date	Description
TRRFCC22-0011	2022-06-14	Initial issue

2. Information

2.1 Applicant Information

Applicant name	DZS Inc.
Address	5700 Tennyson Parkway Suite 400, Plano, TX 75024 USA
Telephone No.	+82 70-7010-1514
Person in charge	YangSik Ryu / ys.ryu@dzsi.com
Manufacturer	DZS Inc.
Address	5700 Tennyson Parkway Suite 400, Plano, TX 75024 USA

2.2 Test Laboratory information

Corporate name	Lab-T, Inc.
Representative	Duke (Jongyoung) Kim
Address	2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)
Telephone	+82-31-322-6767
Fax	+82-31-322-6768
E-mail	info@lab-t.net
FCC Designation No.	KR0159
FCC Registration No.	133186
IC Site Registration No.	22000

2.3 Test Location

Test Site	used	Address
Building L	☒	2182-40 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)
Building T	☒	2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)
Building A	☐	2182-44 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Korea(Republic of)

3. Information About Test Equipment

3.1 Equipment Information

Equipment type	xPON ONT
Equipment model name	H660GX
Variant model name ^{Note2}	HX-H660GX-NA, HX-H660GX-EU, HX-H660GX-UK, HX-H660GX-00
HVIN ^{Note3}	H660GX, HX-H660GX-NA, HX-H660GX-EU, HX-H660GX-UK, HX-H660GX-00
Frequency range	5 180 MHz ~ 5 825 MHz / 5 190 MHz ~ 5 795 MHz 5 210 MHz ~ 5 775 MHz
Modulation type	OFDM
Power supply	DC 12 V
H/W version	DS-P3-92R-A3
S/W version	V5.2

Note 1 : The above EUT information was declared by the manufacturer.

Note 2 : Variant model name by Buyer request

Note 3 : HVIN is model name of the IC

3.2 Antenna Information

Type	Model No.	Gain				Note.
		5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850	
PCB antenna	Ant.1	3.30 dBi	3.30 dBi	3.10 dBi	3.70 dBi	-
PCB antenna	Ant.2	5.60 dBi	5.60 dBi	5.10 dBi	5.20 dBi	-

3.3 Test frequency

Test mode	Test frequency (MHz)			
	Band	Lowest Frequency	Middle Frequency	Highest Frequency
802.11a /802.11n(HT20) /802.11ac(VHT20) /802.11ax(HE20)	5150 ~ 5250	5180	5200	5240
	5250 ~ 5350	5260	5280	5320
	5470 ~ 5725	5500	5600	5700
	5725 ~ 5850	5745	5785	5825
802.11n(HT40) /802.11ac(VHT40) /802.11ax(HE40)	5150 ~ 5250	5190	-	5230
	5250 ~ 5350	5270	-	5310
	5470 ~ 5725	5510	5590	5670
	5725 ~ 5850	5755	-	5795
802.11ac(VHT80) /802.11ax(HE80)	5150 ~ 5250	5210	-	-
	5250 ~ 5350	5290	-	-
	5470 ~ 5725	5530	5610	5690
	5725 ~ 5850	5775	-	-

3.4 Worst-case

802.11a_SISO	6 Mbps	802.11ac(VHT80)_SISO	MCS0
802.11n(HT20)_SISO	MCS0	802.11ac(VHT80)_MIMO	MCS0
802.11n(HT20)_MIMO	MCS8	802.11ax(HE20)_SISO	MCS0
802.11n(HT40)_SISO	MCS0	802.11ax(HE20)_MIMO	MCS0
802.11n(HT40)_MIMO	MCS8	802.11ax(HE40)_SISO	MCS0
802.11ac(VHT20)_SISO	MCS0	802.11ax(HE40)_MIMO	MCS0
802.11ac(VHT20)_MIMO	MCS0	802.11ax(HE80)_SISO	MCS0
802.11ac(VHT40)_SISO	MCS0	802.11ax(HE80)_MIMO	MCS0
802.11ac(VHT40)_MIMO	MCS0	-	-

Note1 : The power measurement has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

3.5 Tested Companion Device Information

Type	Manufacturer	Model	Note
-	-	-	-
-	-	-	-

3.6 Operating conditions for the EUT

Firmware state		2.08
Test software name(version)		QATool(Ulv2.17 / DLLv6.00)
Test power setting		Default setting value
Serial number (Setup mode)	EUT #1	#1 (Conducted / Radiated Emission)

4. Test Report

4.1 Summary

FCC Part 15E 407 & RSS-247 Issue 2 & RSS-GEN Issue 5				
FCC Rule	IC Rule	Parameter	Clause	Status
Transmitter Requirements				
15.203 15.407(a)	RSS-247 5.4(f)	Antenna Requirement	4.4.1	C
15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.2.1	Maximum Conducted Output Power	4.4.2	C
15.407(a)	RSS-247 6.2.3.1 RSS-247 6.2.4.1	Maximum Power Spectral Density	4.4.3	C
15.403(i) 15.407(e)	-	Emission Bandwidth	4.4.4	C
-	RSS-GEN 6.7	Occupied Bandwidth	4.4.4	C
15.407(g)	RSS-GEN 6.11	Frequency Stability	4.4.5	C
15.407(b) 15.205(a) 15.209(a)	RSS-247 6.2.1.2 RSS-247 6.2.2.2 RSS-247 6.2.3.2 RSS-247 6.2.4.2	Radiated Emission, Band Edge and Restricted bands	4.4.6	C
15.207(a)	RSS-GEN 8.8	Conducted Emissions	4.4.7	C
NOTE 1 : C = Comply N/C = Not Comply N/T = Not Tested N/A = Not Applicable				

* The general test methods used to test this device is ANSI C63.10:2013

* Standard(s) : KDB 789033 D02 General UNII Test Procedures
KDB 662911 D01 Multiple Transmitter Output

4.2 Measurement Uncertainty

Mesurement items	Expanded Uncertainty
RF Output Power	1.16 dB (The confidence level is about 95 %, k=2)
Power Spectral Density	1.39 dB (The confidence level is about 95 %, k=2)
Occupied Channel Bandwidth	12.49 kHz (The confidence level is about 95 %, k=2)
Conducted Spurious Emissions	0.41 dB (The confidence level is about 95 %, k=2)
Radiated Spurious Emissions (1 GHz under)	4.84 dB (The confidence level is about 95 %, k=2)
Radiated Spurious Emissions (Above 1 GHz)	5.96 dB (The confidence level is about 95 %, k=2)
Conducted emission	2.50 dB (The confidence level is about 95 %, k=2)

4.3 Transmitter Requirements

4.3.1 Antenna Requirement

4.3.1.1 Regulation

According to §15.203 An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to §15.407(a)(1)(2)(3), If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §RSS-247 5.4(f)(ii) If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit specified in sections 5.4(b) and 5.4(d). However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of $10 \log$ (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

4.3.1.2 Result

Comply (measurement data : refer to the next page)

4.3.1.3 Measurement data

		Antenna 1	Antenna 2
Type		PCB Antenna	
Connector type		U.FL	
Gain	5150 ~ 5250	3.30 dBi	5.60 dBi
	5250 ~ 5350	3.30 dBi	5.60 dBi
	5470 ~ 5725	3.10 dBi	5.10 dBi
	5725 ~ 5850	3.70 dBi	5.20 dBi

Antenna	Directional Gain For Power(dBi)	Directional Gain For PSD(dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
Band	5150 ~ 5250			
1	3.30	3.30	0.00	0.00
2	5.60	5.60	0.00	0.00
1+2	5.60	7.54	0.00	1.54
Band	5250 ~ 5350			
1	3.30	3.30	0.00	0.00
2	5.60	5.60	0.00	0.00
1+2	5.60	7.54	0.00	1.54
Band	5470 ~ 5725			
1	3.10	3.10	0.00	0.00
2	5.10	5.10	0.00	0.00
1+2	5.10	7.17	0.00	1.17
Band	5725 ~ 5850			
1	3.70	3.70	0.00	0.00
2	5.20	5.20	0.00	0.00
1+2	5.20	7.49	0.00	1.49

4.3.2 Maximum Conducted Output Power

4.3.2.1 Regulation

According to §15.407(a)(1)(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §RSS-247 6.2.1.1 For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

According to §15.407(a)(2) and RSS-247 6.2.2.1(a), RSS-247 6.2.3.1 For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §15.407(a)(3) and RSS-247 6.2.4.1 For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.3.2.2 Measurement Procedure

These test measurement settings are specified in section E of 789033 D02 General UNII Test Procedures.

4.3.2.2.1 Measurement using a Power Meter (PM)

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

At all times when the EUT is transmitting, it must be transmitting at its maximum power control

level.

The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in section II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

4.3.2.3 Result

Comply (measurement data : refer to the next page)

4.3.2.4 Measurement data

Test mode : 802.11a

Antenna	Freq. (MHz)	Result (dBm)	Result (mW)	Limit (mW)
SISO ANT1	5180	17.58	57.29	1000.00
	5200	17.61	57.69	1000.00
	5240	17.05	50.71	1000.00
	5260	21.56	143.25	250.00
	5280	21.55	142.92	250.00
	5320	21.10	128.85	250.00
	5500	20.88	122.49	250.00
	5600	20.77	119.42	250.00
	5700	20.35	108.42	250.00
	5745	21.23	132.77	1000.00
	5785	21.22	132.46	1000.00
	5825	21.59	144.24	1000.00
SISO ANT2	5180	15.11	32.47	1000.00
	5200	15.17	32.92	1000.00
	5240	14.37	27.38	1000.00
	5260	20.09	102.19	250.00
	5280	20.30	107.26	250.00
	5320	20.07	101.73	250.00
	5500	20.78	119.79	250.00
	5600	20.23	105.54	250.00
	5700	20.29	107.01	250.00
	5745	19.42	87.58	1000.00
	5785	19.69	93.20	1000.00
	5825	20.66	116.53	1000.00

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11n(HT20)

Antenna	Freq. (MHz)		Result (dBm)		Result (mW)		Limit (mW)
SISO ANT1	5180		17.97		62.60		1000.00
	5200		17.94		62.17		1000.00
	5240		17.56		56.96		1000.00
	5260		21.03		126.65		250.00
	5280		21.10		128.71		250.00
	5320		20.63		115.50		250.00
	5500		20.87		122.07		250.00
	5600		20.82		120.67		250.00
	5700		20.37		108.79		250.00
	5745		20.80		120.12		1000.00
	5785		20.82		120.67		1000.00
	5825		21.13		129.60		1000.00
SISO ANT2	5180		15.95		39.31		1000.00
	5200		16.04		40.14		1000.00
	5240		15.32		34.00		1000.00
	5260		20.92		123.46		250.00
	5280		21.06		127.51		250.00
	5320		20.82		120.65		250.00
	5500		20.64		115.75		250.00
	5600		20.16		103.64		250.00
	5700		20.14		103.17		250.00
	5745		19.30		85.02		1000.00
	5785		19.57		90.48		1000.00
	5825		20.57		113.90		1000.00
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)	
MIMO	5180	12.34	13.59	16.37	43.31	1000.00	
	5200	12.26	13.49	16.27	42.41	1000.00	
	5240	12.00	12.76	15.75	37.61	1000.00	
	5260	15.93	17.28	20.01	100.32	250.00	
	5280	15.96	17.58	20.20	104.75	250.00	
	5320	15.50	17.25	19.82	95.92	250.00	
	5500	16.44	17.26	20.23	105.34	250.00	
	5600	16.27	16.99	20.00	100.03	250.00	
	5700	15.93	16.83	19.76	94.62	250.00	
	5745	18.85	18.80	22.18	165.25	1000.00	
	5785	18.93	18.97	22.31	170.08	1000.00	
	5825	19.38	20.00	23.06	202.19	1000.00	

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11n(HT40)

Antenna	Freq. (MHz)		Result (dBm)	Result (mW)		Limit (mW)
SISO ANT1	5190		18.58	72.12		1000.00
	5230		18.23	66.54		1000.00
	5270		19.42	87.51		250.00
	5310		18.93	78.17		250.00
	5510		20.06	101.40		250.00
	5590		19.92	98.19		250.00
	5670		19.39	86.91		250.00
	5755		21.90	154.90		1000.00
	5795		21.89	154.54		1000.00
SISO ANT2	5190		16.99	49.97		1000.00
	5230		16.18	41.46		1000.00
	5270		19.16	82.35		250.00
	5310		19.02	79.74		250.00
	5510		19.88	97.20		250.00
	5590		19.59	90.92		250.00
	5670		20.04	100.85		250.00
	5755		19.96	99.01		1000.00
	5795		20.26	106.09		1000.00
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)
MIMO	5190	13.40	14.79	17.81	60.40	1000.00
	5230	12.89	13.94	17.11	51.37	1000.00
	5270	16.96	17.96	21.15	130.28	250.00
	5310	16.54	17.74	20.84	121.38	250.00
	5510	17.86	18.45	21.83	152.23	250.00
	5590	17.79	18.10	21.61	144.80	250.00
	5670	17.35	18.42	21.58	143.81	250.00
	5755	18.89	18.59	22.40	173.89	1000.00
	5795	18.91	18.77	22.50	177.85	1000.00

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ac(VHT20)

Antenna	Freq. (MHz)		Result (dBm)		Result (mW)		Limit (mW)	
SISO ANT1	5180		17.86		61.15		1000.00	
	5200		17.94		62.29		1000.00	
	5240		17.53		56.68		1000.00	
	5260		21.04		127.18		250.00	
	5280		21.00		126.02		250.00	
	5320		20.55		113.61		250.00	
	5500		20.81		120.62		250.00	
	5600		20.77		119.52		250.00	
	5700		20.36		108.75		250.00	
	5745		20.84		121.46		1000.00	
	5785		20.82		120.90		1000.00	
	5825		21.19		131.65		1000.00	
SISO ANT2	5180		15.48		35.35		1000.00	
	5200		15.55		35.93		1000.00	
	5240		14.72		29.68		1000.00	
	5260		20.85		121.74		250.00	
	5280		21.06		127.77		250.00	
	5320		20.87		122.30		250.00	
	5500		20.67		116.80		250.00	
	5600		20.16		103.86		250.00	
	5700		20.13		103.14		250.00	
	5745		19.28		84.81		1000.00	
	5785		19.57		90.66		1000.00	
	5825		20.57		114.14		1000.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)		
MIMO	5180	11.66	13.06	15.77	37.80	1000.00		
	5200	11.93	13.04	15.88	38.71	1000.00		
	5240	11.50	12.36	15.31	33.96	1000.00		
	5260	15.78	17.38	20.01	100.27	250.00		
	5280	15.93	17.52	20.16	103.65	250.00		
	5320	15.60	17.33	19.91	97.88	250.00		
	5500	16.33	17.32	20.21	104.99	250.00		
	5600	16.25	16.89	19.94	98.63	250.00		
	5700	15.96	16.78	19.75	94.36	250.00		
	5745	18.82	18.76	22.15	164.00	1000.00		
	5785	18.94	19.03	22.34	171.54	1000.00		
	5825	19.43	20.04	23.10	204.37	1000.00		

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ac(VHT40)

Antenna	Freq. (MHz)	Result (dBm)		Result (mW)		Limit (mW)
SISO ANT1	5190	18.56		71.83		1000.00
	5230	18.20		66.11		1000.00
	5270	19.41		87.36		250.00
	5310	18.97		78.94		250.00
	5510	20.07		101.69		250.00
	5590	19.96		99.15		250.00
	5670	19.37		86.55		250.00
	5755	21.44		139.41		1000.00
	5795	21.38		137.50		1000.00
SISO ANT2	5190	16.96		49.69		1000.00
	5230	16.15		41.23		1000.00
	5270	19.16		82.46		250.00
	5310	19.00		79.48		250.00
	5510	19.87		97.10		250.00
	5590	19.55		90.21		250.00
	5670	20.04		100.98		250.00
	5755	20.02		100.52		1000.00
	5795	20.29		106.96		1000.00
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)
MIMO	5190	13.33	14.70	17.72	59.18	1000.00
	5230	12.96	14.02	17.18	52.18	1000.00
	5270	16.88	17.95	21.10	128.86	250.00
	5310	16.54	17.79	20.86	121.98	250.00
	5510	17.79	18.52	21.82	152.18	250.00
	5590	17.90	18.09	21.65	146.19	250.00
	5670	17.29	18.38	21.52	141.98	250.00
	5755	19.35	19.03	22.85	192.58	1000.00
	5795	19.32	19.25	22.94	196.71	1000.00

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ac(VHT80)

Antenna	Freq. (MHz)		Result (dBm)	Result (mW)		Limit (mW)
SISO ANT1	5210		18.28	67.23		1000.00
	5290		18.17	65.55		250.00
	5530		18.38	68.80		250.00
	5610		18.31	67.70		250.00
	5690		17.70	58.83		250.00
	5775		20.01	100.13		1000.00
SISO ANT2	5210		16.90	49.03		1000.00
	5290		18.04	63.74		250.00
	5530		18.24	66.75		250.00
	5610		18.10	64.63		250.00
	5690		18.66	73.53		250.00
	5775		17.71	59.08		1000.00
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)
MIMO	5210	12.90	14.33	17.84	60.80	1000.00
	5290	14.22	15.49	19.07	80.67	250.00
	5530	16.23	16.68	20.63	115.52	250.00
	5610	16.17	16.60	20.56	113.66	250.00
	5690	15.79	17.10	20.66	116.41	250.00
	5775	17.40	17.28	21.51	141.46	1000.00

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ax(HE20)

Antenna	Freq. (MHz)		Result (dBm)		Result (mW)		Limit (mW)	
SISO ANT1	5180		18.09		64.43		1000.00	
	5200		18.20		66.08		1000.00	
	5240		17.76		59.71		1000.00	
	5260		21.36		136.80		250.00	
	5280		21.29		134.61		250.00	
	5320		20.90		123.05		250.00	
	5500		20.21		104.97		250.00	
	5600		20.09		102.11		250.00	
	5700		19.66		92.49		250.00	
	5745		20.53		113.00		1000.00	
	5785		20.56		113.78		1000.00	
	5825		20.98		125.34		1000.00	
SISO ANT2	5180		16.19		41.60		1000.00	
	5200		16.30		42.66		1000.00	
	5240		15.47		35.24		1000.00	
	5260		20.52		112.73		250.00	
	5280		20.76		119.14		250.00	
	5320		20.66		116.43		250.00	
	5500		20.43		110.42		250.00	
	5600		19.97		99.32		250.00	
	5700		19.91		97.96		250.00	
	5745		19.52		89.55		1000.00	
	5785		19.80		95.51		1000.00	
	5825		20.72		118.05		1000.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)		
MIMO	5180	11.97	13.32	16.12	40.94	1000.00		
	5200	12.04	13.29	16.13	41.06	1000.00		
	5240	11.70	12.46	15.52	35.65	1000.00		
	5260	16.50	17.91	20.69	117.12	250.00		
	5280	16.54	18.19	20.87	122.10	250.00		
	5320	16.22	17.81	20.51	112.50	250.00		
	5500	16.48	17.65	20.53	112.94	250.00		
	5600	16.52	17.17	20.28	106.69	250.00		
	5700	16.17	17.04	20.05	101.18	250.00		
	5745	18.54	18.52	21.95	156.83	1000.00		
	5785	18.64	18.64	22.06	160.85	1000.00		
	5825	19.23	19.70	22.90	194.79	1000.00		

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ax(HE40)

Antenna	Freq. (MHz)	Result (dBm)	Result (mW)	Limit (mW)		
SISO ANT1	5190	18.36	68.56	1000.00		
	5230	18.03	63.55	1000.00		
	5270	18.82	76.22	250.00		
	5310	18.41	69.36	250.00		
	5510	20.62	115.37	250.00		
	5590	20.46	111.20	250.00		
	5670	19.79	95.30	250.00		
	5755	21.94	156.35	1000.00		
	5795	21.86	153.49	1000.00		
SISO ANT2	5190	17.35	54.36	1000.00		
	5230	16.65	46.27	1000.00		
	5270	19.53	89.81	250.00		
	5310	19.37	86.56	250.00		
	5510	20.24	105.76	250.00		
	5590	19.92	98.24	250.00		
	5670	20.41	109.98	250.00		
	5755	19.55	90.22	1000.00		
	5795	19.85	96.67	1000.00		
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)
MIMO	5190	13.38	14.78	17.86	61.10	1000.00
	5230	13.07	14.03	17.30	53.71	1000.00
	5270	16.47	17.62	20.81	120.43	250.00
	5310	16.10	17.52	20.59	114.61	250.00
	5510	18.02	18.48	21.98	157.77	250.00
	5590	17.93	18.21	21.80	151.24	250.00
	5670	17.42	18.46	21.70	147.75	250.00
	5755	19.44	19.11	23.00	199.64	1000.00
	5795	19.51	19.36	23.16	207.01	1000.00

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

Test mode : 802.11ax(HE80)

Antenna	Freq. (MHz)		Result (dBm)	Result (mW)	Limit (mW)	
SISO ANT1	5210		17.96	62.55	1000.00	
	5290		18.02	63.42	250.00	
	5530		18.65	73.32	250.00	
	5610		18.44	69.86	250.00	
	5690		17.89	61.55	250.00	
	5775		20.22	105.26	1000.00	
SISO ANT2	5210		17.11	51.43	1000.00	
	5290		18.10	64.60	250.00	
	5530		18.30	67.65	250.00	
	5610		18.16	65.50	250.00	
	5690		18.72	74.52	250.00	
	5775		18.87	77.13	1000.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Result (mW)	Limit (mW)
MIMO	5210	13.09	14.57	18.03	63.49	1000.00
	5290	15.10	16.43	19.95	98.85	250.00
	5530	15.56	16.07	19.96	99.01	250.00
	5610	15.47	15.90	19.82	96.04	250.00
	5690	14.98	16.29	19.82	95.90	250.00
	5775	17.62	17.48	21.68	147.39	1000.00

Note 1 : refer to 4.3.1 for information on limit reduction.

Note 2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.

Note 3 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor

Note 4 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7

4.3.2.5 Measurement data_e.i.r.p.(5150MHz ~ 5250 MHz)

Test mode : 802.11a

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5180	17.58	20.88	122.49	200.00
	5200	17.61	20.91	123.34	200.00
	5240	17.05	20.35	108.42	200.00
SISO ANT2	5180	15.11	20.71	117.88	200.00
	5200	15.17	20.77	119.52	200.00
	5240	14.37	19.97	99.41	200.00

Test mode : 802.11n(HT20)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5180	17.97	21.27	133.84	200.00
	5200	17.94	21.24	132.92	200.00
	5240	17.56	20.86	121.79	200.00
SISO ANT2	5180	15.95	21.55	142.74	200.00
	5200	16.04	21.64	145.73	200.00
	5240	15.32	20.92	123.46	200.00
MIMO	5180	16.37	21.12	129.55	200.00
	5200	16.27	21.03	126.78	200.00
	5240	15.75	20.45	110.93	200.00

Test mode : 802.11n(HT40)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5190	18.58	21.88	154.19	200.00
	5230	18.23	21.53	142.25	200.00
SISO ANT2	5190	16.99	22.59	181.41	200.00
	5230	16.18	21.78	150.55	200.00
MIMO	5190	17.81	22.59	181.37	200.00
	5230	17.11	21.84	152.77	200.00

Note 1 : refer to 4.3.1 for information on limit reduction and Antenna gain

Note 2 : Result eirp(dBm) : Output Power(dBm) + Antenna gain(dBi)

Test mode : 802.11ac(VHT20)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5180	17.86	21.16	130.75	200.00
	5200	17.94	21.24	133.18	200.00
	5240	17.53	20.83	121.18	200.00
SISO ANT2	5180	15.48	21.08	128.36	200.00
	5200	15.55	21.15	130.45	200.00
	5240	14.72	20.32	107.75	200.00
MIMO	5180	15.77	20.55	113.53	200.00
	5200	15.88	20.62	115.34	200.00
	5240	15.31	20.02	100.45	200.00

Test mode : 802.11ac(VHT40)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5190	18.56	21.86	153.56	200.00
	5230	18.20	21.50	141.35	200.00
SISO ANT2	5190	16.96	22.56	180.40	200.00
	5230	16.15	21.75	149.71	200.00
MIMO	5190	17.72	22.49	177.62	200.00
	5230	17.18	21.91	155.25	200.00

Test mode : 802.11ac(VHT80)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5210	18.28	21.58	143.74	200.00
SISO ANT2	5210	16.90	22.50	178.01	200.00
MIMO	5190	17.84	22.62	182.79	200.00

Note 1 : refer to 4.3.1 for information on limit reduction and Antenna gain

Note 2 : Result eirp(dBm) : Output Power(dBm) + Antenna gain(dBi)

Test mode : 802.11ax(HE20)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5180	18.09	21.39	137.75	200.00
	5200	18.20	21.50	141.28	200.00
	5240	17.76	21.06	127.67	200.00
SISO ANT2	5180	16.19	21.79	151.03	200.00
	5200	16.30	21.90	154.90	200.00
	5240	15.47	21.07	127.96	200.00
MIMO	5180	16.12	20.89	122.80	200.00
	5200	16.13	20.89	122.81	200.00
	5240	15.52	20.22	105.16	200.00

Test mode : 802.11ax(HE40)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5190	18.36	21.66	146.58	200.00
	5230	18.03	21.33	135.86	200.00
SISO ANT2	5190	17.35	22.95	197.38	200.00
	5230	16.65	22.25	168.00	200.00
MIMO	5190	17.86	22.64	183.52	200.00
	5230	17.30	22.02	159.34	200.00

Test mode : 802.11ax(HE80)

Antenna	Freq. (MHz)	Output Power (dBm)	Result eirp (dBm)	Result eirp (mW)	Limit (mW)
SISO ANT1	5210	17.96	21.26	133.74	200.00
SISO ANT2	5210	17.11	22.71	186.75	200.00
MIMO	5190	18.03	22.81	191.12	200.00

Note 1 : refer to 4.3.1 for information on limit reduction and Antenna gain

Note 2 : Result eirp(dBm) : Output Power(dBm) + Antenna gain(dBi)

4.3.3 Maximum Power Spectral Density(PSD)

4.3.3.1 Regulation

According to §15.407(a)(1)(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §RSS-247 6.2.1.1 For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

According to §15.407(a)(2) and RSS-247 6.2.2.1(a), RSS-247 6.2.3.1 For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §15.407(a)(3) and RSS-247 6.2.4.1 For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.3.3.2 Measurement Procedure

These test measurement settings are specified in section F of 789033 D02 General UNII Test Procedures.

4.3.3.2.1 Maximum Power Spectral Density (PSD)

The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power....” (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)

2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.

3. Make the following adjustments to the peak value of the spectrum, if applicable:

- a) If Method SA-2 or SA-2 Alternative was used, add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum.
- b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.

4. The result is the Maximum PSD over 1 MHz reference bandwidth.

5. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHZ}$ is available on nearly all spectrum analyzers.

4.3.3.3 Result

Comply (measurement data : refer to the next page)

4.3.3.4 Measurement data

Test mode : 802.11a

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)
SISO ANT1	5180	5.50	5.67	17.00
	5200	5.76	5.93	17.00
	5240	5.30	5.47	17.00
	5260	10.54	10.71	11.00
	5280	10.70	10.87	11.00
	5320	10.13	10.30	11.00
	5500	10.11	10.28	11.00
	5600	9.36	9.53	11.00
	5700	8.83	9.00	11.00
	5745	7.02	7.19	30.00
	5785	6.95	7.12	30.00
	5825	7.28	7.45	30.00
SISO ANT2	5180	3.15	3.32	17.00
	5200	3.66	3.83	17.00
	5240	2.73	2.91	17.00
	5260	8.45	8.62	11.00
	5280	8.97	9.14	11.00
	5320	8.69	8.86	11.00
	5500	9.54	9.72	11.00
	5600	8.45	8.62	11.00
	5700	8.35	8.53	11.00
	5745	4.90	5.08	30.00
	5785	4.77	4.94	30.00
	5825	5.93	6.11	30.00

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11n(HT20)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5180	5.40	5.60	17.00	
	5200	5.54	5.74	17.00	
	5240	5.45	5.65	17.00	
	5260	9.06	9.27	11.00	
	5280	9.51	9.72	11.00	
	5320	8.77	8.97	11.00	
	5500	8.98	9.19	11.00	
	5600	9.00	9.21	11.00	
	5700	8.71	8.92	11.00	
	5745	6.21	6.41	30.00	
	5785	6.46	6.66	30.00	
	5825	6.91	7.12	30.00	
SISO ANT2	5180	4.13	4.32	17.00	
	5200	4.16	4.35	17.00	
	5240	3.37	3.56	17.00	
	5260	9.36	9.54	11.00	
	5280	9.35	9.53	11.00	
	5320	8.98	9.16	11.00	
	5500	8.94	9.13	11.00	
	5600	8.34	8.53	11.00	
	5700	8.06	8.25	11.00	
	5745	4.38	4.56	30.00	
	5785	4.70	4.89	30.00	
	5825	5.71	5.90	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5180	0.94	1.76	4.73	15.46
	5200	0.88	1.63	4.63	15.46
	5240	0.85	1.37	4.47	15.46
	5260	4.85	6.14	8.90	9.46
	5280	4.65	5.97	8.71	9.46
	5320	4.33	5.54	8.33	9.46
	5500	4.93	6.04	8.88	9.83
	5600	4.93	5.29	8.47	9.83
	5700	4.39	4.88	8.00	9.83
	5745	4.52	4.35	7.79	28.51
	5785	4.69	4.54	7.97	28.51
	5825	4.79	5.53	8.53	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11n(HT40)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5190	5.09	5.45	17.00	
	5230	4.79	5.15	17.00	
	5270	5.42	5.78	11.00	
	5310	4.69	5.05	11.00	
	5510	5.70	6.06	11.00	
	5590	5.45	5.81	11.00	
	5670	4.87	5.23	11.00	
	5755	4.61	4.97	30.00	
	5795	4.45	4.81	30.00	
SISO ANT2	5190	3.32	3.69	17.00	
	5230	2.40	2.76	17.00	
	5270	5.24	5.61	11.00	
	5310	4.69	5.06	11.00	
	5510	5.88	6.25	11.00	
	5590	5.46	5.83	11.00	
	5670	5.68	6.05	11.00	
	5755	2.79	3.16	30.00	
	5795	2.88	3.25	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5190	0.20	1.47	4.54	15.46
	5230	0.59	0.82	4.37	15.46
	5270	3.51	4.74	7.83	9.46
	5310	2.77	4.09	7.14	9.46
	5510	4.33	4.80	8.23	9.83
	5590	4.41	4.87	8.30	9.83
	5670	3.65	4.60	7.81	9.83
	5755	2.62	2.04	6.00	28.51
	5795	2.62	2.47	6.21	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11ac(VHT20)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5180	5.64	5.82	17.00	
	5200	5.88	6.06	17.00	
	5240	5.73	5.91	17.00	
	5260	9.72	9.91	11.00	
	5280	9.97	10.15	11.00	
	5320	9.08	9.26	11.00	
	5500	9.33	9.52	11.00	
	5600	9.00	9.18	11.00	
	5700	8.84	9.02	11.00	
	5745	6.39	6.57	30.00	
	5785	6.09	6.27	30.00	
	5825	6.85	7.04	30.00	
SISO ANT2	5180	3.38	3.56	17.00	
	5200	3.69	3.88	17.00	
	5240	3.08	3.26	17.00	
	5260	9.23	9.41	11.00	
	5280	9.42	9.60	11.00	
	5320	9.12	9.30	11.00	
	5500	9.01	9.19	11.00	
	5600	8.43	8.61	11.00	
	5700	8.02	8.21	11.00	
	5745	4.23	4.41	30.00	
	5785	4.58	4.76	30.00	
	5825	5.45	5.63	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5180	0.44	1.76	4.51	15.46
	5200	0.68	1.63	4.54	15.46
	5240	0.41	0.89	4.01	15.46
	5260	4.92	6.23	8.98	9.46
	5280	4.84	6.30	8.99	9.46
	5320	4.38	5.76	8.49	9.46
	5500	5.07	6.15	9.00	9.83
	5600	5.15	5.32	8.60	9.83
	5700	4.53	5.31	8.29	9.83
	5745	4.66	4.32	7.85	28.51
	5785	4.61	4.65	7.99	28.51
	5825	4.93	5.71	8.70	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11ac(VHT40)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5190	5.37	5.74	17.00	
	5230	4.76	5.13	17.00	
	5270	5.46	5.82	11.00	
	5310	4.62	4.98	11.00	
	5510	5.70	6.06	11.00	
	5590	5.71	6.07	11.00	
	5670	4.99	5.36	11.00	
	5755	4.58	4.94	30.00	
	5795	4.15	4.51	30.00	
SISO ANT2	5190	3.34	3.71	17.00	
	5230	2.20	2.56	17.00	
	5270	5.02	5.38	11.00	
	5310	4.51	4.87	11.00	
	5510	5.85	6.21	11.00	
	5590	5.21	5.57	11.00	
	5670	5.60	5.96	11.00	
	5755	2.65	3.01	30.00	
	5795	3.03	3.39	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5190	0.33	1.36	4.53	15.46
	5230	0.23	0.34	3.94	15.46
	5270	3.54	4.54	7.72	9.46
	5310	2.54	4.27	7.14	9.46
	5510	4.18	5.01	8.27	9.83
	5590	4.55	4.56	8.21	9.83
	5670	3.52	4.81	7.86	9.83
	5755	2.75	2.59	6.32	28.51
	5795	2.72	2.86	6.45	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11ac(VHT80)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5210	1.01	1.71	17.00	
	5290	1.31	2.01	11.00	
	5530	0.46	1.17	11.00	
	5610	1.11	1.81	11.00	
	5690	0.20	0.90	11.00	
	5775	-0.52	0.19	30.00	
SISO ANT2	5210	0.08	0.77	17.00	
	5290	0.82	1.51	11.00	
	5530	0.74	1.44	11.00	
	5610	0.87	1.56	11.00	
	5690	1.15	1.85	11.00	
	5775	-2.99	-2.30	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5210	-3.08	-2.19	1.56	15.46
	5290	-2.33	-0.97	2.57	9.46
	5530	0.34	0.27	4.47	9.83
	5610	-0.08	0.05	4.15	9.83
	5690	-0.76	0.43	4.04	9.83
	5775	-1.97	-2.28	2.04	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11ax(HE20)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5180	5.58	5.81	17.00	
	5200	5.74	5.97	17.00	
	5240	4.92	5.15	17.00	
	5260	9.21	9.44	11.00	
	5280	9.17	9.40	11.00	
	5320	8.56	8.79	11.00	
	5500	8.19	8.42	11.00	
	5600	8.05	8.28	11.00	
	5700	7.69	7.92	11.00	
	5745	5.77	6.00	30.00	
	5785	5.48	5.71	30.00	
	5825	6.01	6.24	30.00	
SISO ANT2	5180	3.71	3.94	17.00	
	5200	4.13	4.36	17.00	
	5240	2.85	3.08	17.00	
	5260	8.11	8.34	11.00	
	5280	8.20	8.43	11.00	
	5320	7.98	8.21	11.00	
	5500	7.59	7.82	11.00	
	5600	6.74	6.97	11.00	
	5700	7.02	7.25	11.00	
	5745	3.76	3.99	30.00	
	5785	3.74	3.97	30.00	
	5825	4.92	5.15	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5180	0.15	1.21	4.13	15.46
	5200	0.20	1.44	4.29	15.46
	5240	-0.07	0.94	3.89	15.46
	5260	4.66	5.95	8.77	9.46
	5280	4.67	6.20	8.92	9.46
	5320	3.91	6.08	8.56	9.46
	5500	4.96	5.16	8.49	9.83
	5600	4.56	5.00	8.21	9.83
	5700	3.93	5.14	8.00	9.83
	5745	3.62	3.42	6.94	28.51
	5785	3.99	3.62	7.23	28.51
	5825	4.08	4.56	7.75	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11ax(HE40)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5190	3.60	4.33	17.00	
	5230	3.20	3.93	17.00	
	5270	4.41	5.14	11.00	
	5310	3.18	3.91	11.00	
	5510	5.58	6.31	11.00	
	5590	5.50	6.23	11.00	
	5670	4.59	5.32	11.00	
	5755	4.04	4.77	30.00	
	5795	3.70	4.43	30.00	
SISO ANT2	5190	2.80	3.54	17.00	
	5230	2.24	2.97	17.00	
	5270	4.34	5.07	11.00	
	5310	4.02	4.76	11.00	
	5510	4.90	5.63	11.00	
	5590	4.61	5.35	11.00	
	5670	4.95	5.69	11.00	
	5755	1.54	2.27	30.00	
	5795	1.87	2.61	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5190	0.38	1.12	4.49	15.46
	5230	-0.09	0.41	3.89	15.46
	5270	2.21	3.73	6.76	9.46
	5310	1.98	3.53	6.55	9.46
	5510	3.64	4.85	8.01	9.83
	5590	4.27	4.00	7.86	9.83
	5670	3.32	4.41	7.62	9.83
	5755	2.36	2.13	5.97	28.51
	5795	2.47	2.28	6.10	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

Test mode : 802.11ax(HE80)

Antenna	Freq. (MHz)	Measured (dBm)	Result (dBm)	Limit (dBm)	
SISO ANT1	5210	0.84	1.59	17.00	
	5290	0.48	1.23	11.00	
	5530	0.99	1.74	11.00	
	5610	1.12	1.87	11.00	
	5690	0.20	0.95	11.00	
	5775	-0.27	0.48	30.00	
SISO ANT2	5210	0.48	1.23	17.00	
	5290	0.54	1.29	11.00	
	5530	1.09	1.84	11.00	
	5610	0.80	1.55	11.00	
	5690	1.31	2.06	11.00	
	5775	-1.54	-0.79	30.00	
Antenna	Freq. (MHz)	ANT1 (dBm)	ANT2 (dBm)	Result (dBm)	Limit (dBm)
MIMO	5210	-2.92	-1.70	1.87	15.46
	5290	-1.85	-0.22	3.18	9.46
	5530	-1.46	-0.84	3.00	9.83
	5610	-1.60	-0.92	2.89	9.83
	5690	-2.06	-0.70	2.81	9.83
	5775	-2.01	-2.31	1.98	28.51

NOTE1 : refer to 4.3.1 for information on limit reduction.
NOTE2 : We took the insertion loss of the cable loss into consideration within the measuring instrument.
NOTE3 : Duty cycle Factor : $10 \cdot \log(1/(\text{on-time}/\text{Period}))$ refer to 4.3.6.7
NOTE4 : Result : Measured Value(ANT1 + ANT2) + Duty cycle Factor
NOTE5 : 5150MHz ~ 5725MHz : dBm/MHz
5725MHz ~ 5850MHz : dBm/500kHz
NOTE6 : IC Limit(Frequency band 5150-5250 MHz) : 10 dBm/MHz eirp

4.3.3.5 Measurement data_e.i.r.p.(5150MHz ~ 5250 MHz)

Test mode : 802.11a

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5180	5.67	8.97	10.00
	5200	5.93	9.23	10.00
	5240	5.47	8.77	10.00
SISO ANT2	5180	3.32	8.92	10.00
	5200	3.83	9.43	10.00
	5240	2.91	8.51	10.00

Test mode : 802.11n(HT20)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5180	5.60	8.90	10.00
	5200	5.74	9.04	10.00
	5240	5.65	8.95	10.00
SISO ANT2	5180	4.32	9.92	10.00
	5200	4.35	9.95	10.00
	5240	3.56	9.16	10.00
MIMO	5180	4.73	9.43	10.00
	5200	4.63	9.32	10.00
	5240	4.47	9.14	10.00

Test mode : 802.11n(HT40)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5190	5.45	8.75	10.00
	5230	5.15	8.45	10.00
SISO ANT2	5190	3.69	9.29	10.00
	5230	2.76	8.36	10.00
MIMO	5190	4.54	9.30	10.00
	5230	4.37	9.00	10.00

Note 1 : refer to 4.3.1 for information on limit reduction and Antenna gain

Note 2 : Result eirp(dBm) : PSD(dBm) + Antenna gain(dBi)

Test mode : 802.11ac(VHT20)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5180	5.82	9.12	10.00
	5200	6.06	9.36	10.00
	5240	5.91	9.21	10.00
SISO ANT2	5180	3.56	9.16	10.00
	5200	3.88	9.48	10.00
	5240	3.26	8.86	10.00
MIMO	5180	4.51	9.28	10.00
	5200	4.54	9.26	10.00
	5240	4.01	8.67	10.00

Test mode : 802.11ac(VHT40)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5190	5.74	9.04	10.00
	5230	5.13	8.43	10.00
SISO ANT2	5190	3.71	9.31	10.00
	5230	2.56	8.16	10.00
MIMO	5190	4.53	9.26	10.00
	5230	3.94	8.55	10.00

Test mode : 802.11ac(VHT80)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5210	1.71	5.01	10.00
SISO ANT2	5210	0.77	6.37	10.00
MIMO	5190	1.56	6.27	10.00

Note 1 : refer to 4.3.1 for information on limit reduction and Antenna gain

Note 2 : Result eirp(dBm) : PSD(dBm) + Antenna gain(dBi)

Test mode : 802.11ax(HE20)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5180	5.81	9.11	10.00
	5200	5.97	9.27	10.00
	5240	5.15	8.45	10.00
SISO ANT2	5180	3.94	9.54	10.00
	5200	4.36	9.96	10.00
	5240	3.08	8.68	10.00
MIMO	5180	4.13	8.87	10.00
	5200	4.29	9.04	10.00
	5240	3.89	8.62	10.00

Test mode : 802.11ax(HE40)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5190	4.33	7.63	10.00
	5230	3.93	7.23	10.00
SISO ANT2	5190	3.54	9.14	10.00
	5230	2.97	8.57	10.00
MIMO	5190	4.49	9.19	10.00
	5230	3.89	8.55	10.00

Test mode : 802.11ax(HE80)

Antenna	Freq. (MHz)	PSD (dBm)	Result eirp (dBm)	Limit (dBm)
SISO ANT1	5210	1.59	4.89	10.00
SISO ANT2	5210	1.23	6.83	10.00
MIMO	5190	1.87	6.62	10.00

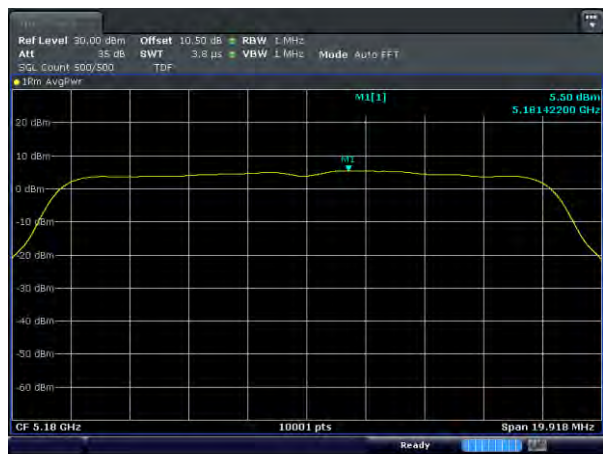
Note 1 : refer to 4.3.1 for information on limit reduction and Antenna gain

Note 2 : Result eirp(dBm) : PSD(dBm) + Antenna gain(dBi)

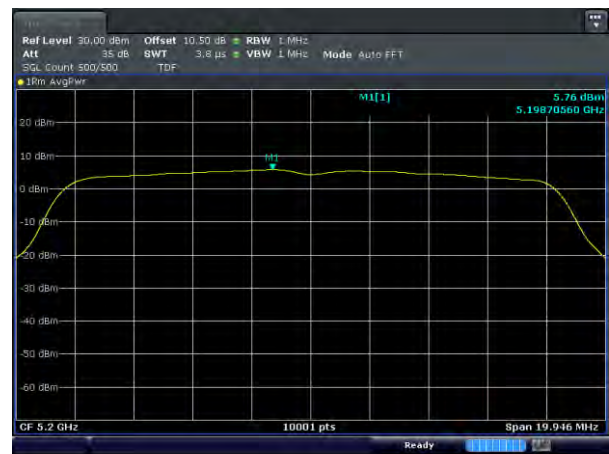
4.3.3.5 Test Plot

Test mode : 802.11a / SISO(ANT1)

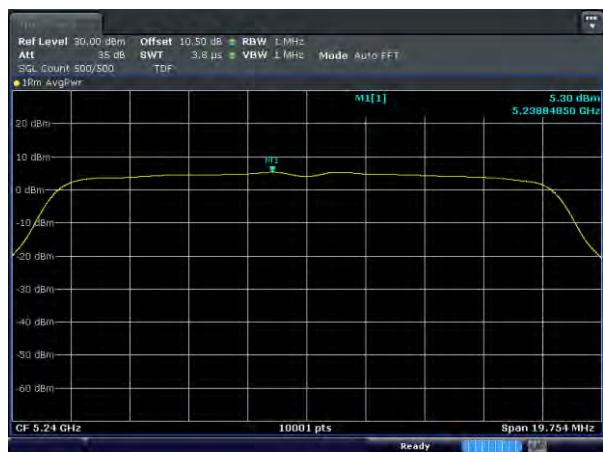
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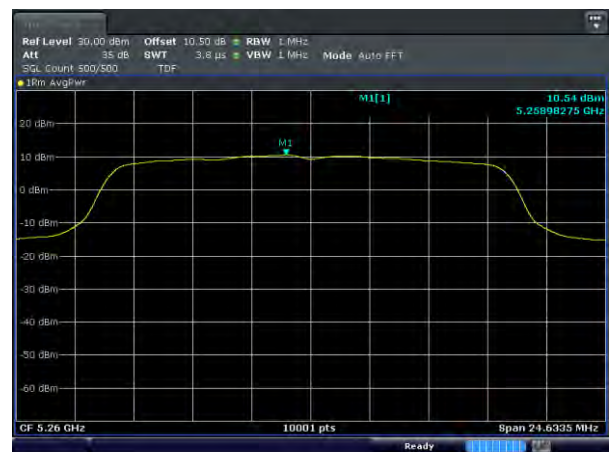
5200MHz



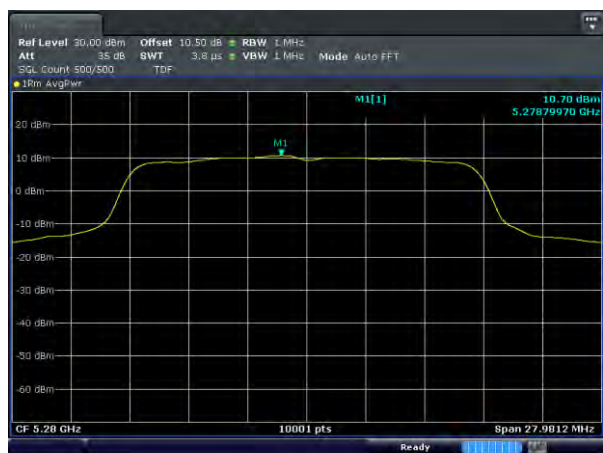
5240MHz



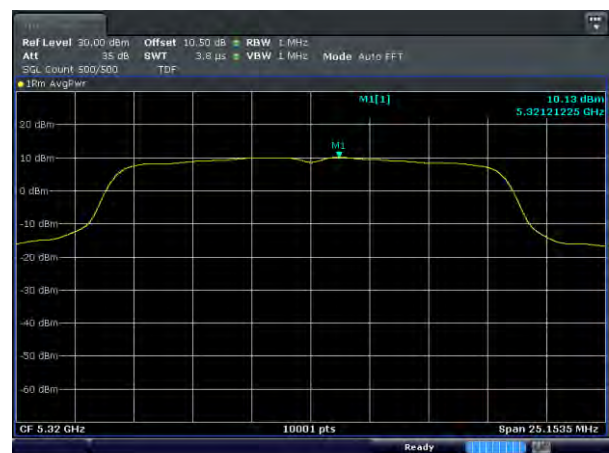
5260MHz



5280MHz

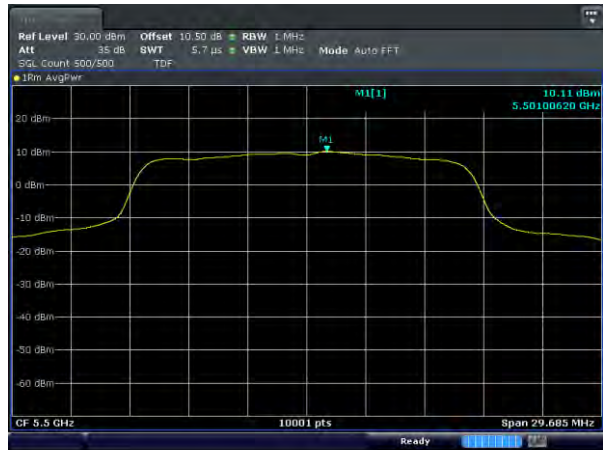


5320MHz

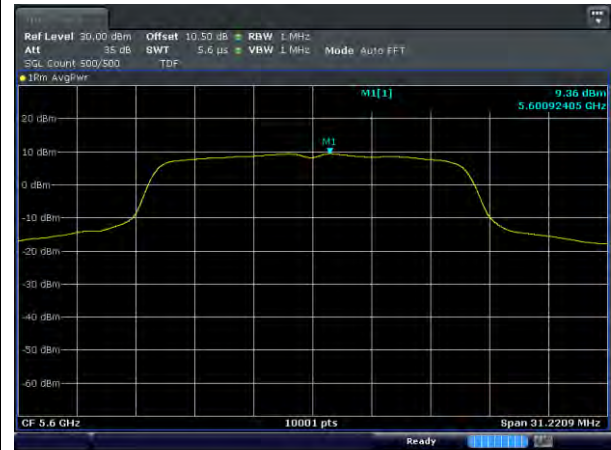


Test mode : 802.11a / SISO(ANT1)

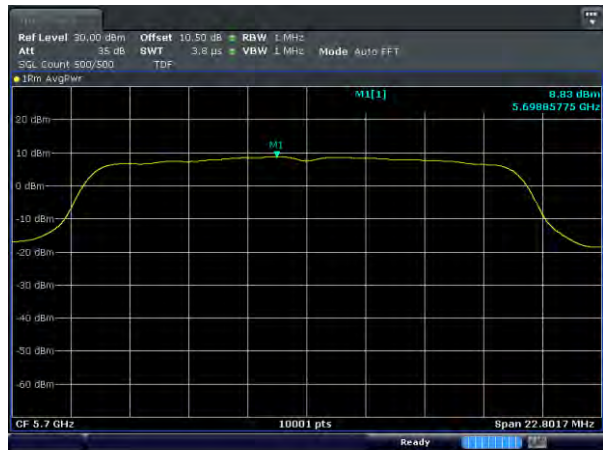
5500MHz



5600MHz



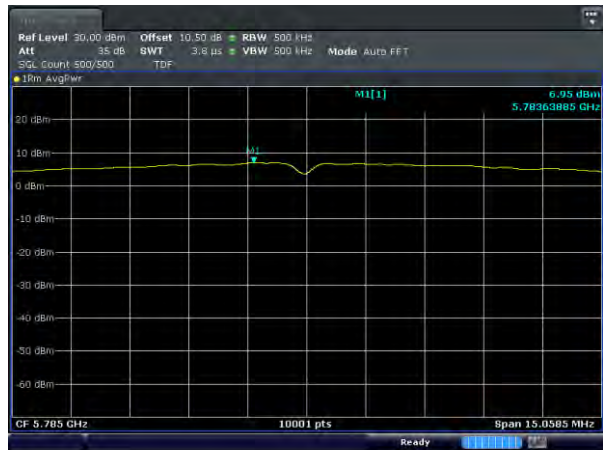
5700MHz



5745MHz



5785MHz

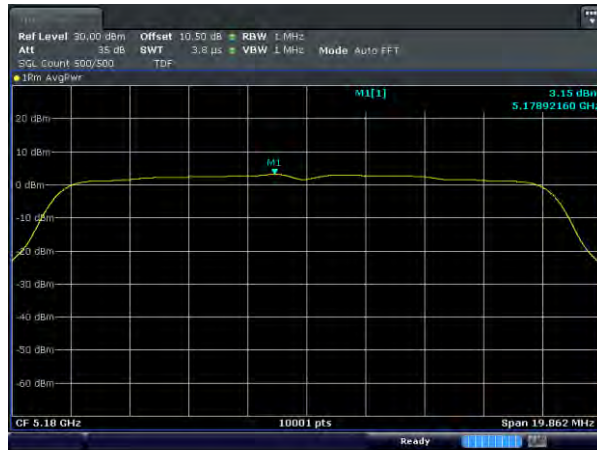


5825MHz



Test mode : 802.11a / SISO(ANT2)

5180MHz



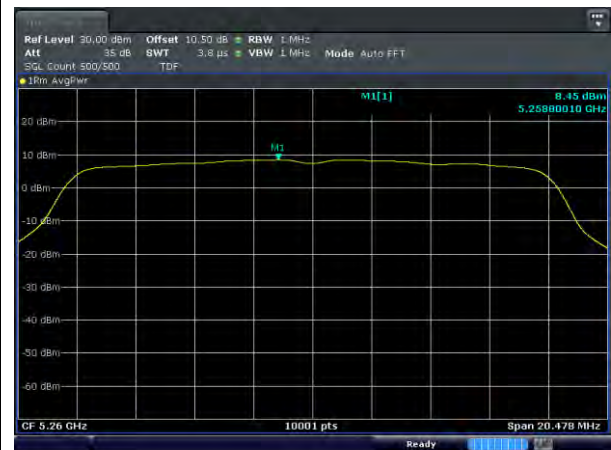
5200MHz



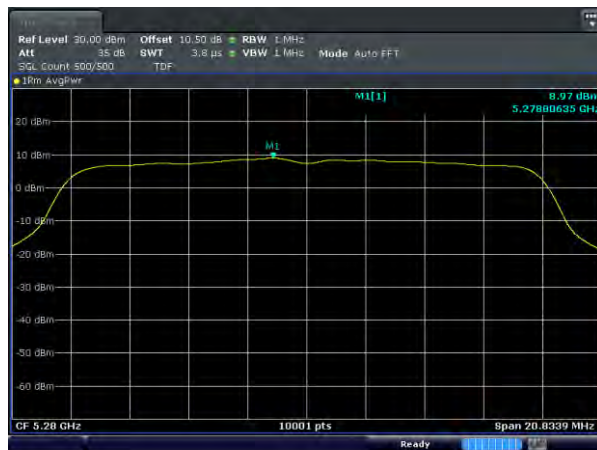
5240MHz



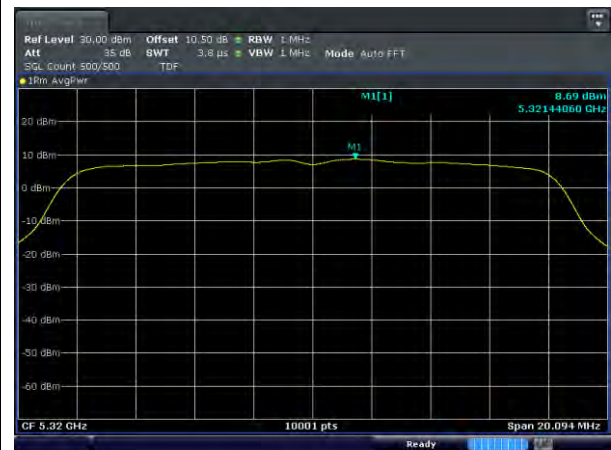
5260MHz



5280MHz

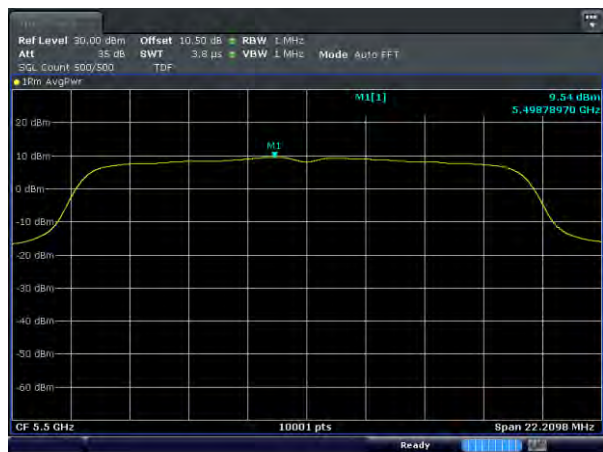


5320MHz

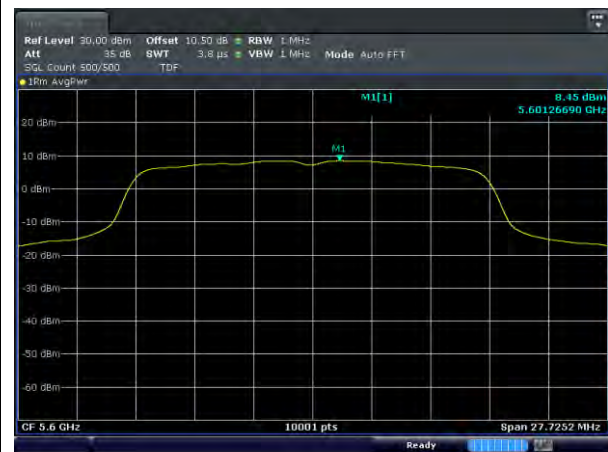


Test mode : 802.11a / SISO(ANT2)

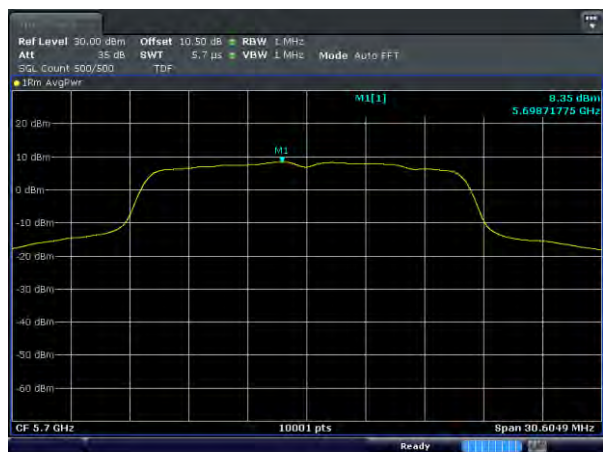
5500MHz



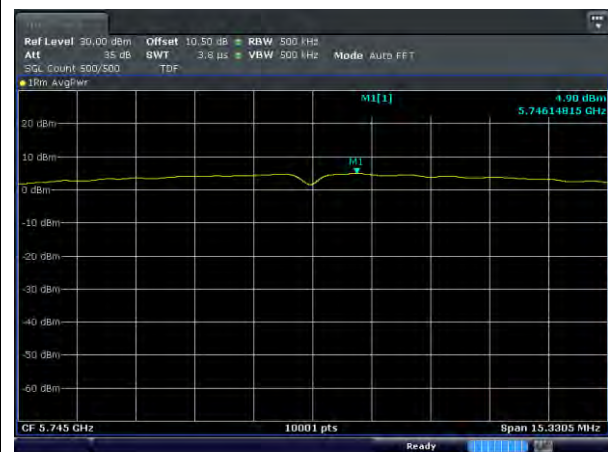
5600MHz



5700MHz



5745MHz



5785MHz

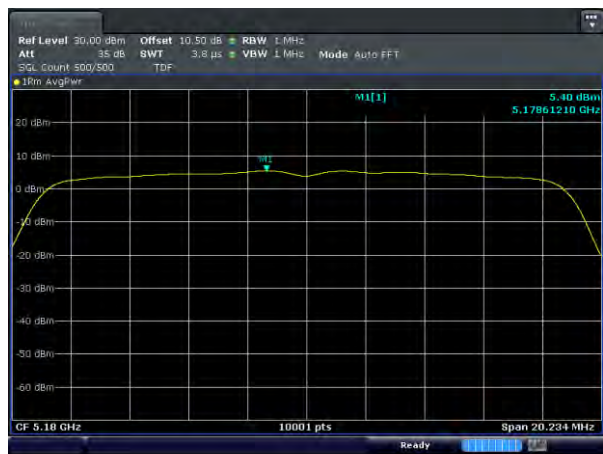


5825MHz

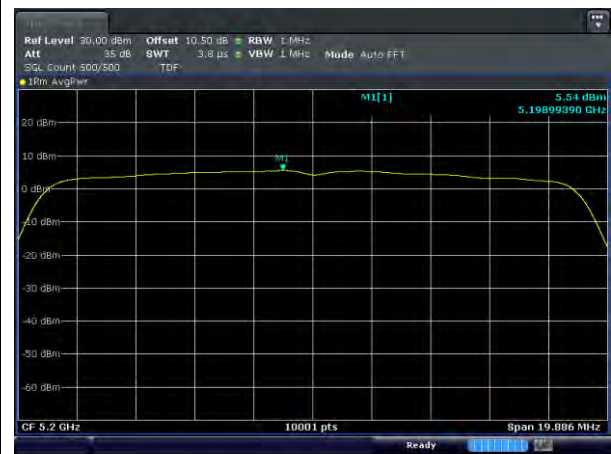


Test mode : 802.11n(HT20) / SISO(ANT1)

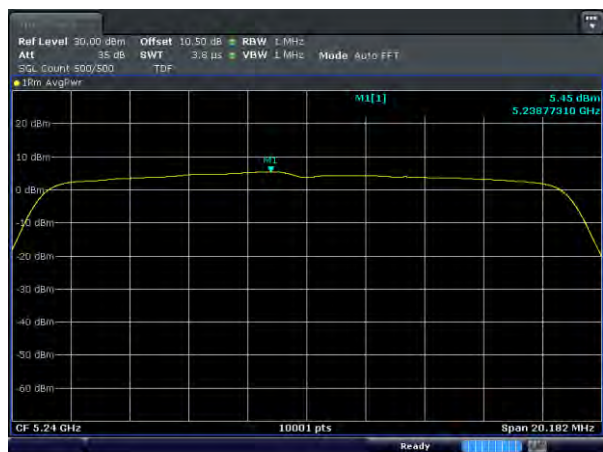
5180MHz



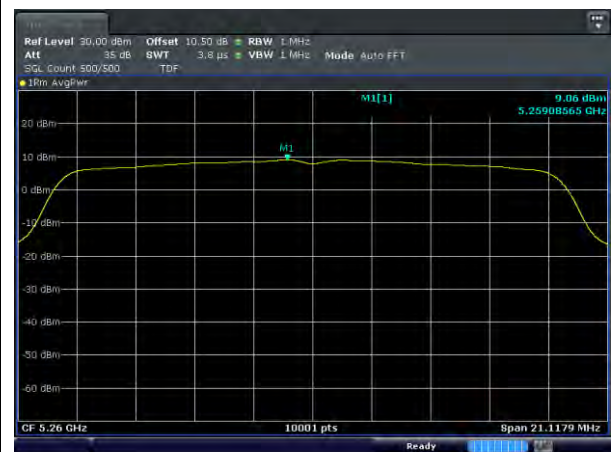
5200MHz



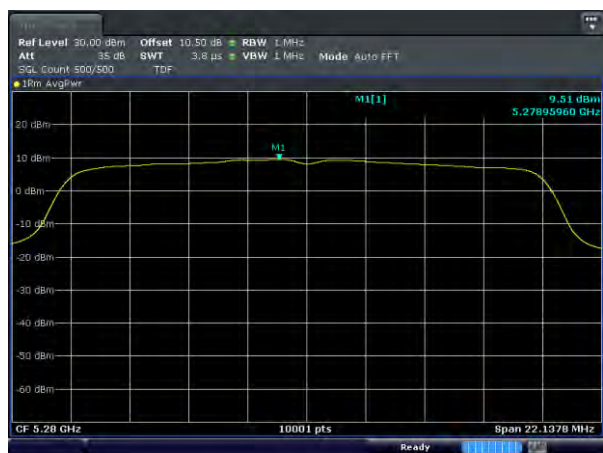
5240MHz



5260MHz



5280MHz

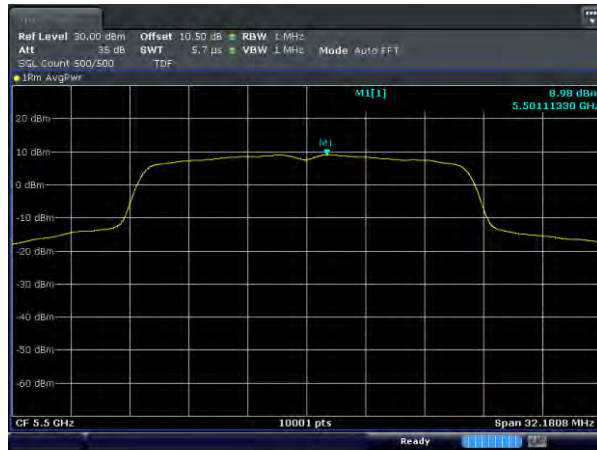


5320MHz

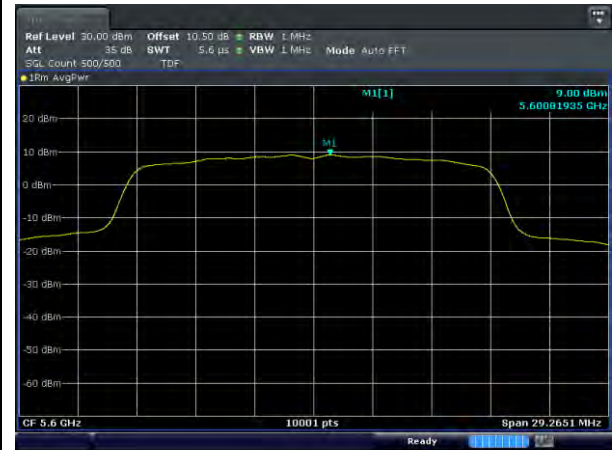


Test mode : 802.11n(HT20) / SISO(ANT1)

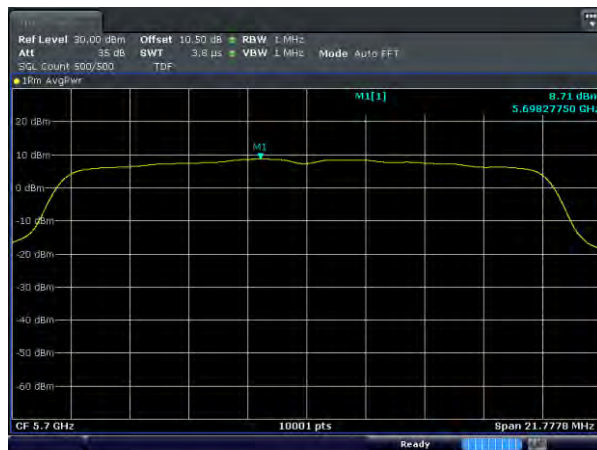
5500MHz



5600MHz



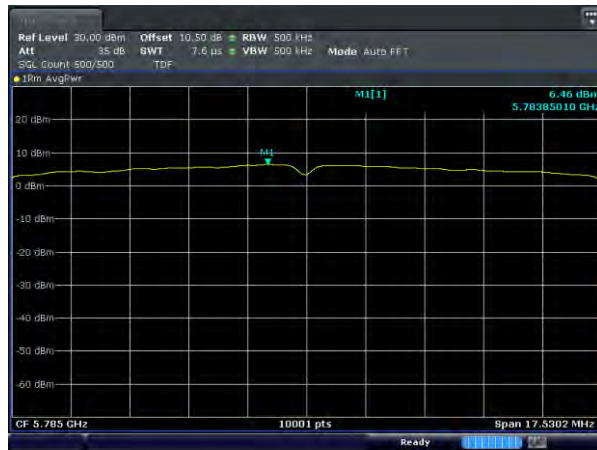
5700MHz



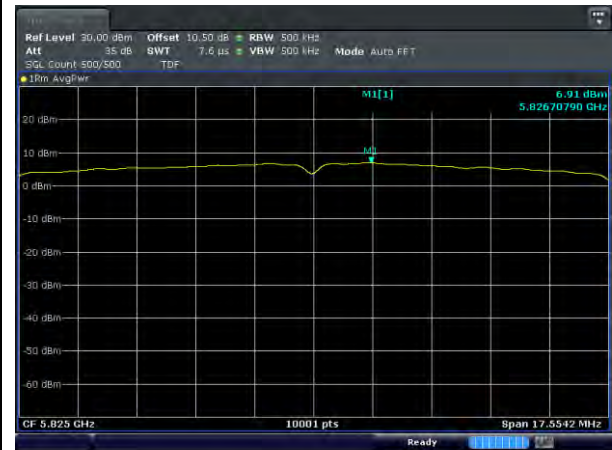
5745MHz



5785MHz

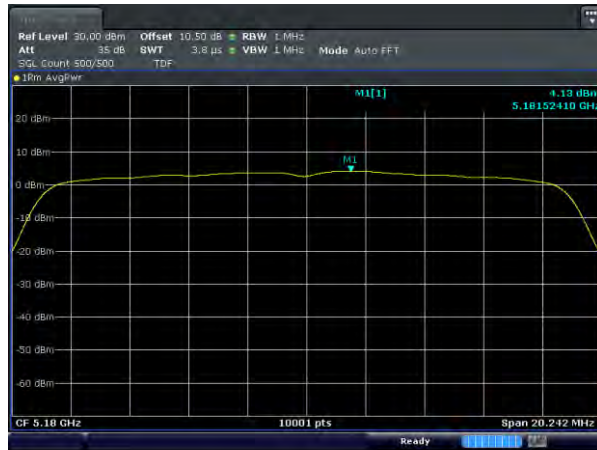


5825MHz



Test mode : 802.11n(HT20) / SISO(ANT2)

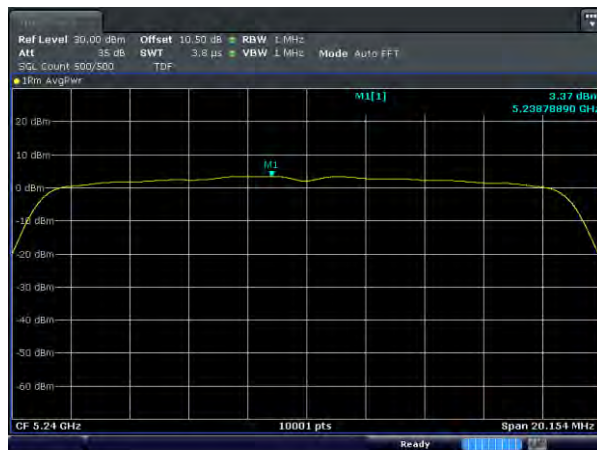
5180MHz



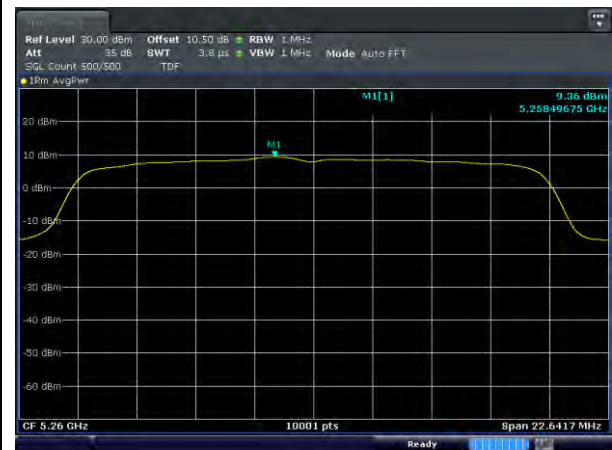
5200MHz



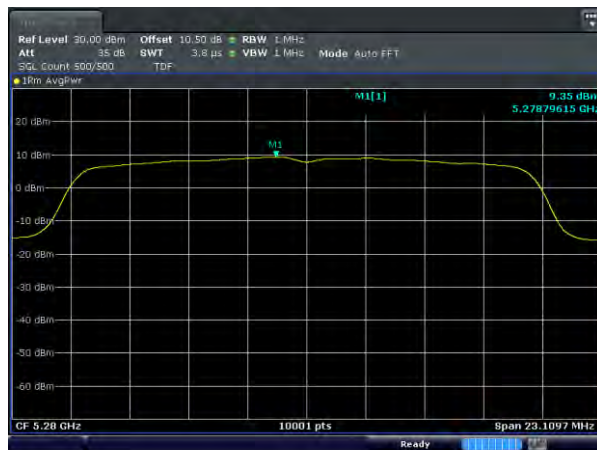
5240MHz



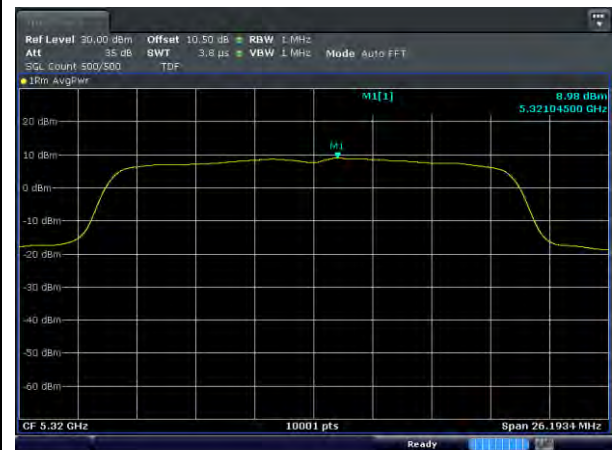
5260MHz



5280MHz

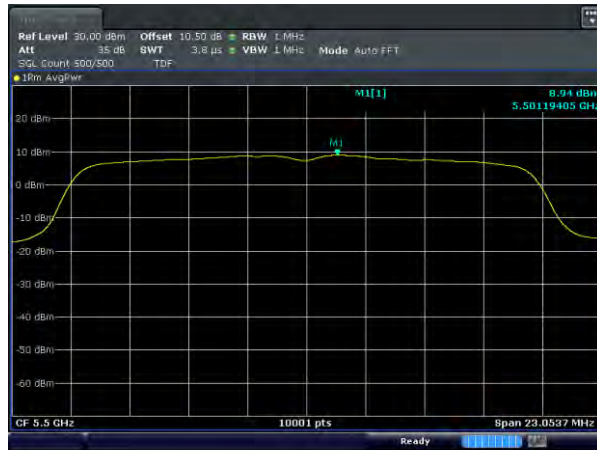


5320MHz

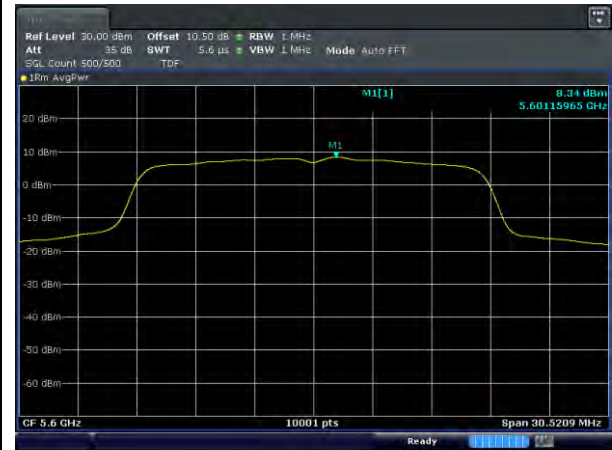


Test mode : 802.11n(HT20) / SISO(ANT2)

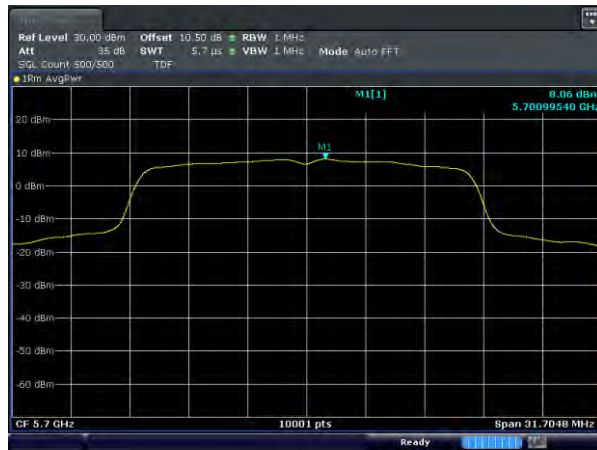
5500MHz



5600MHz



5700MHz



5745MHz



5785MHz



5825MHz



Test mode : 802.11n(HT20) / MIMO(ANT1)

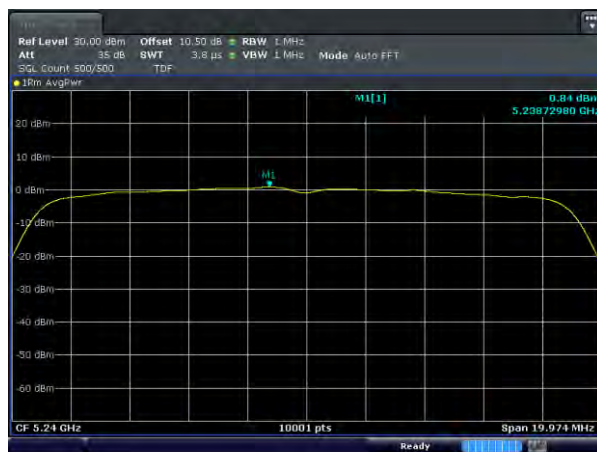
5180MHz



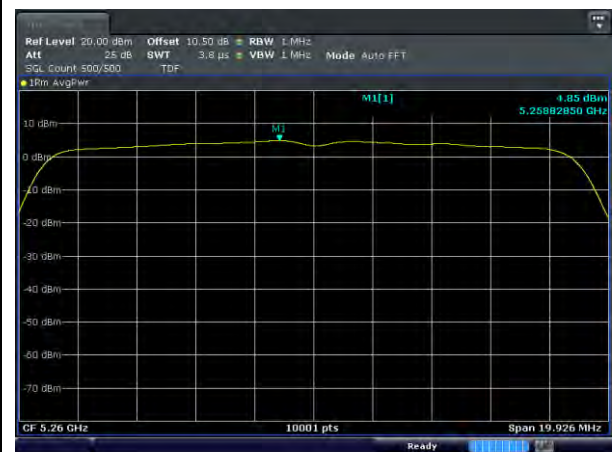
5200MHz



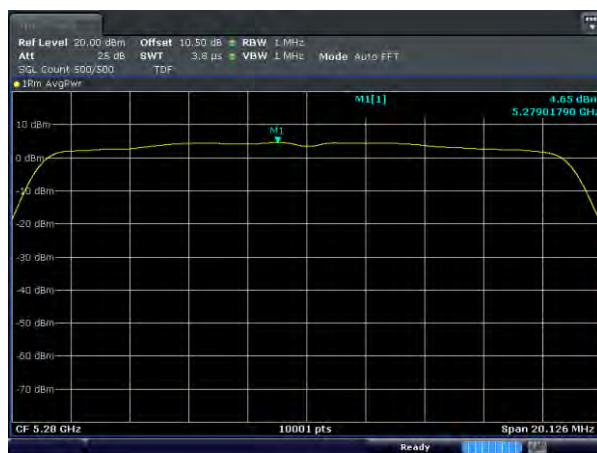
5240MHz



5260MHz



5280MHz



5320MHz



Test mode : 802.11n(HT20) / MIMO(ANT1)

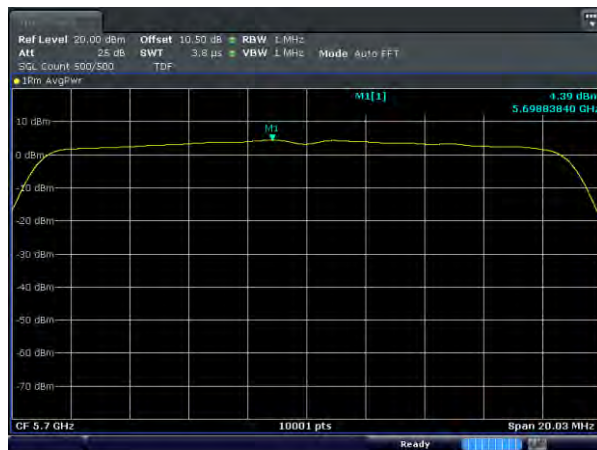
5500MHz



5600MHz



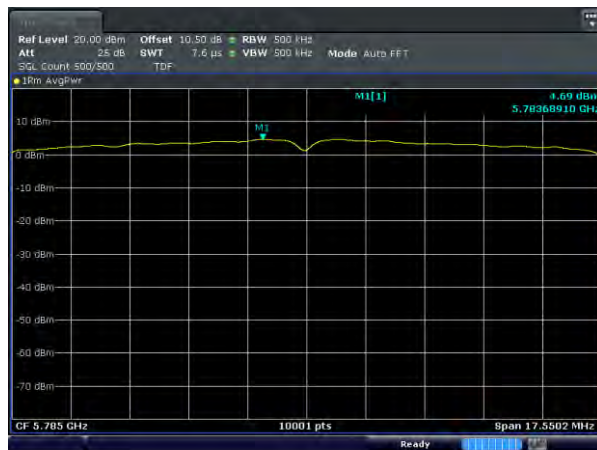
5700MHz



5745MHz



5785MHz



5825MHz

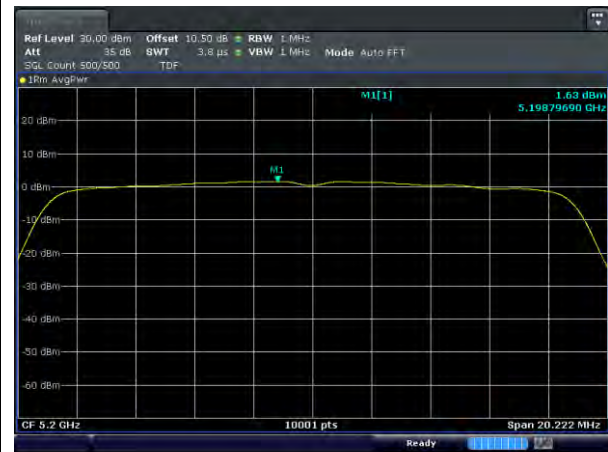


Test mode : 802.11n(HT20) / MIMO(ANT2)

5180MHz



5200MHz



5240MHz



5260MHz



5280MHz

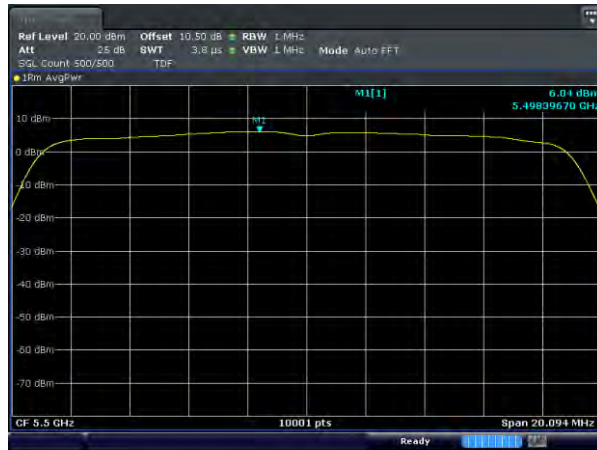


5320MHz

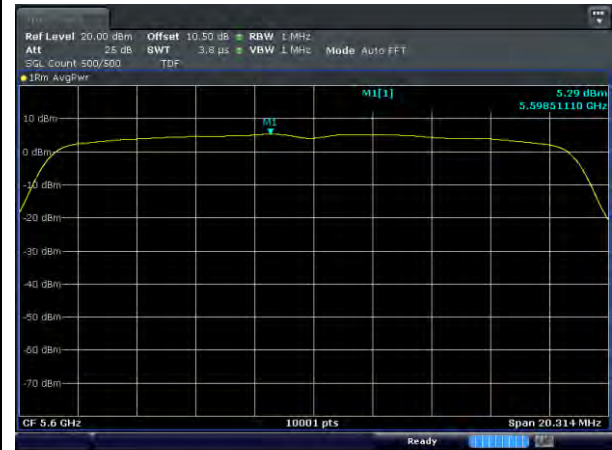


Test mode : 802.11n(HT20) / MIMO(ANT2)

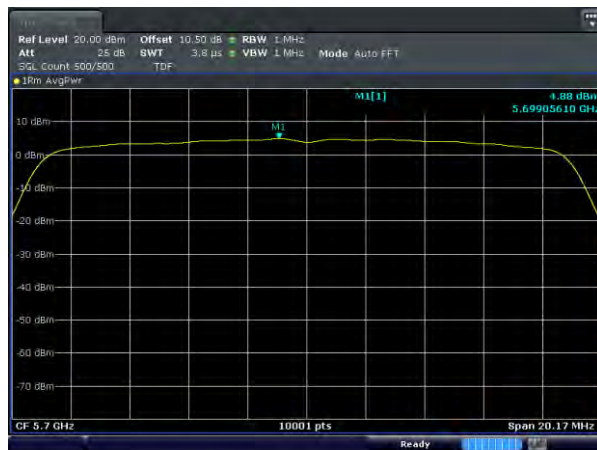
5500MHz



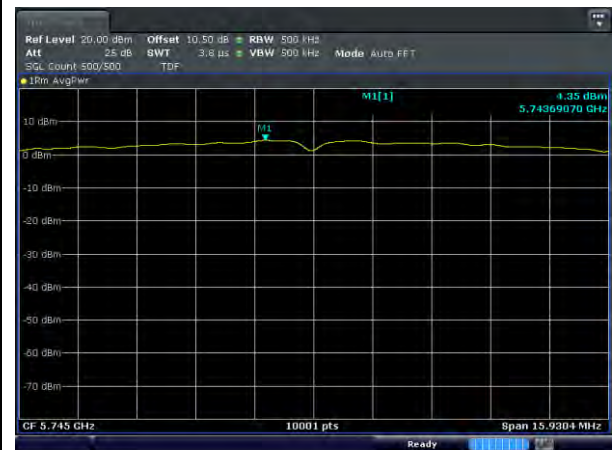
5600MHz



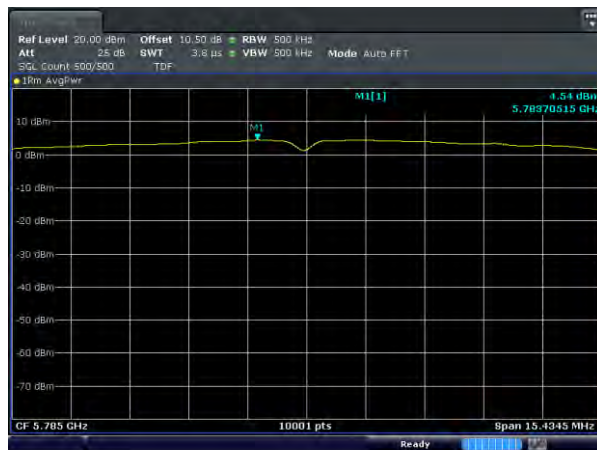
5700MHz



5745MHz



5785MHz

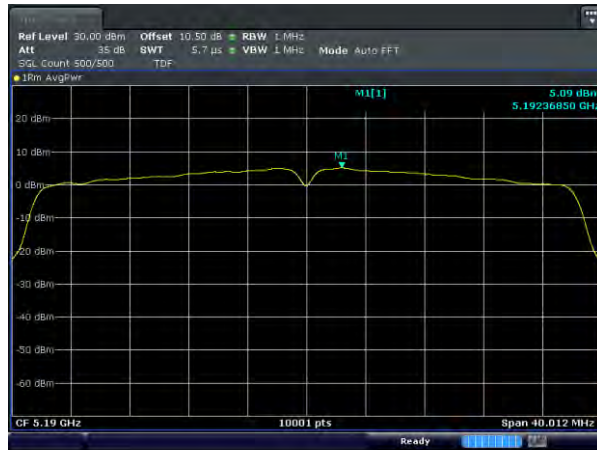


5825MHz

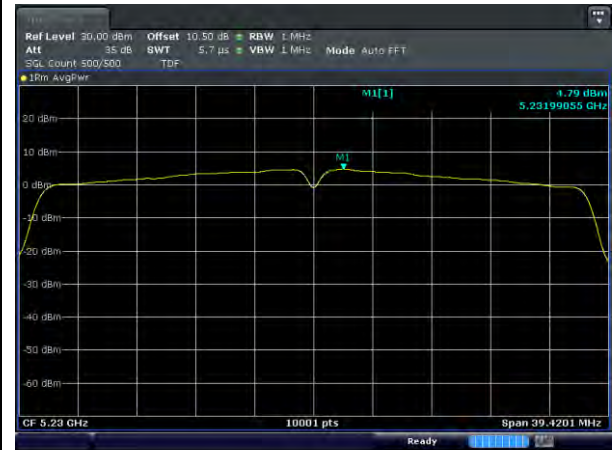


Test mode : 802.11n(HT40) / SISO(ANT1)

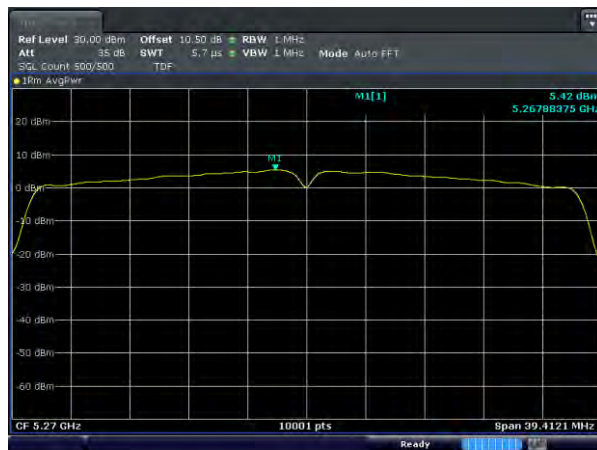
5190MHz



5230MHz



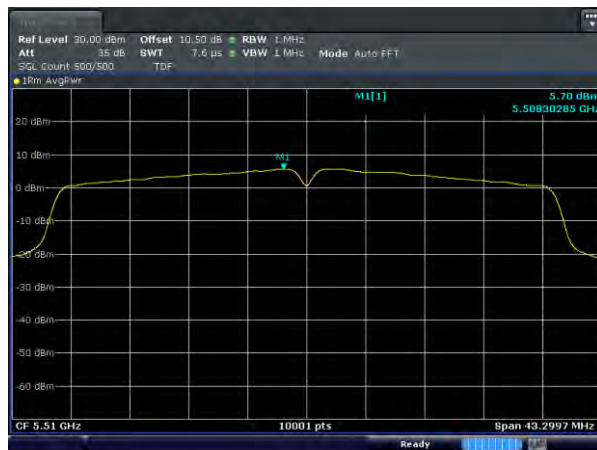
5270MHz



5310MHz



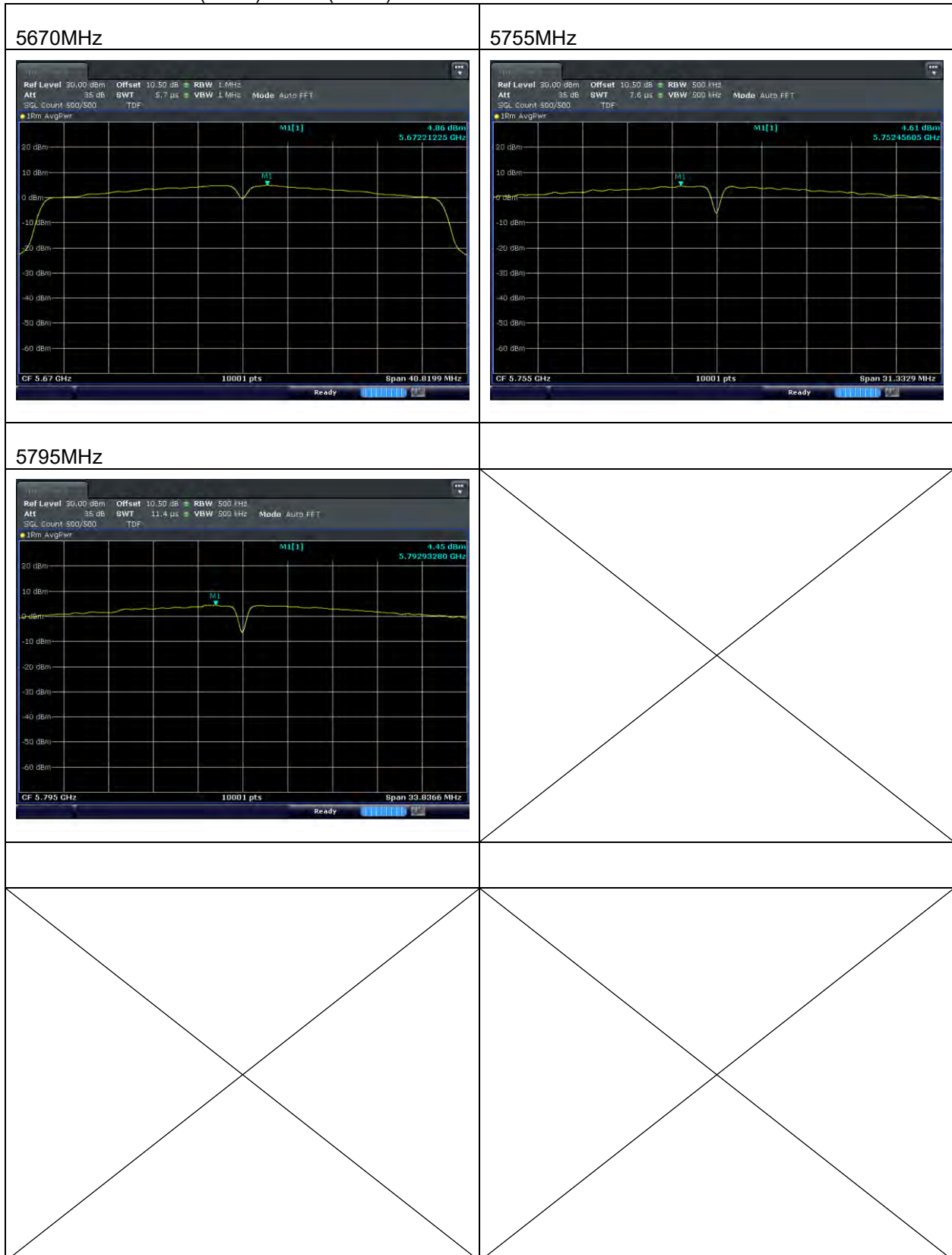
5510MHz



5590MHz



Test mode : 802.11n(HT40) / SISO(ANT1)



Test mode : 802.11n(HT40) / SISO(ANT2)

5190MHz



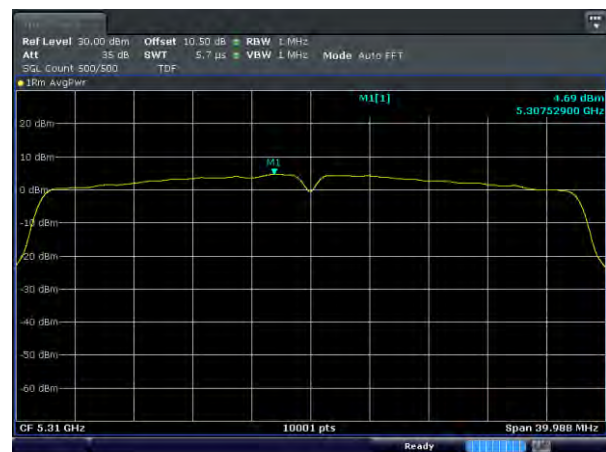
5230MHz



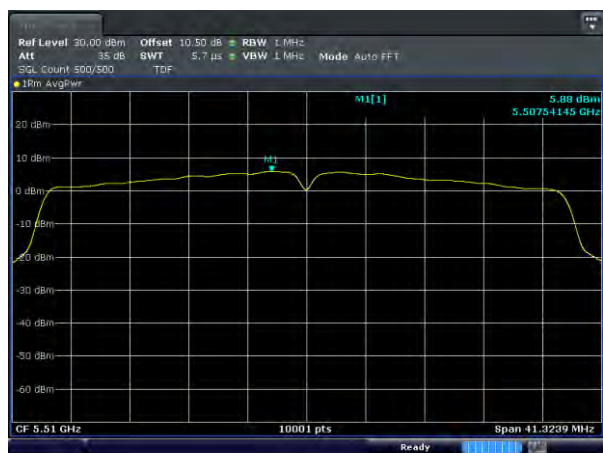
5270MHz



5310MHz



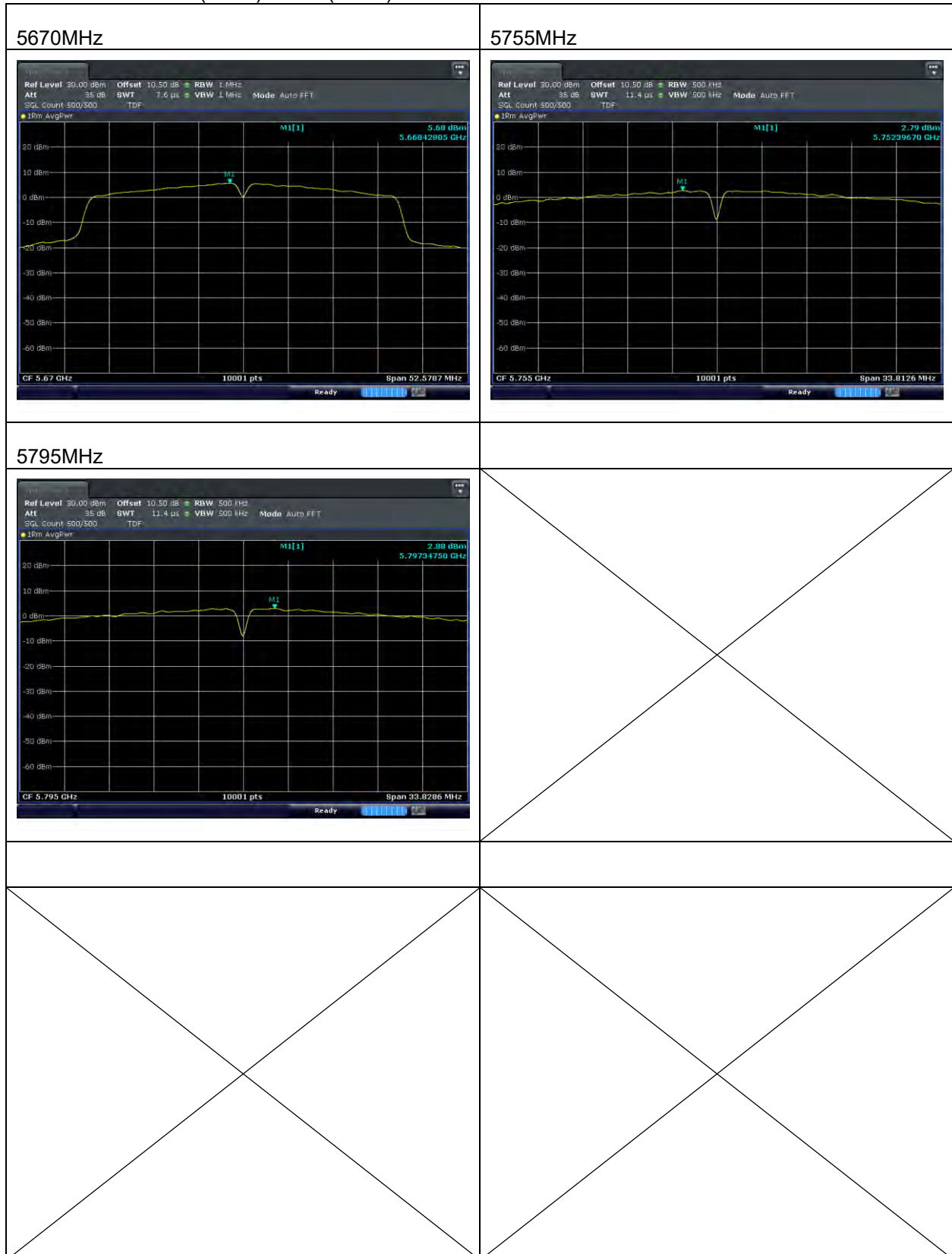
5510MHz



5590MHz



Test mode : 802.11n(HT40) / SISO(ANT2)



Test mode : 802.11n(HT40) / MIMO(ANT1)

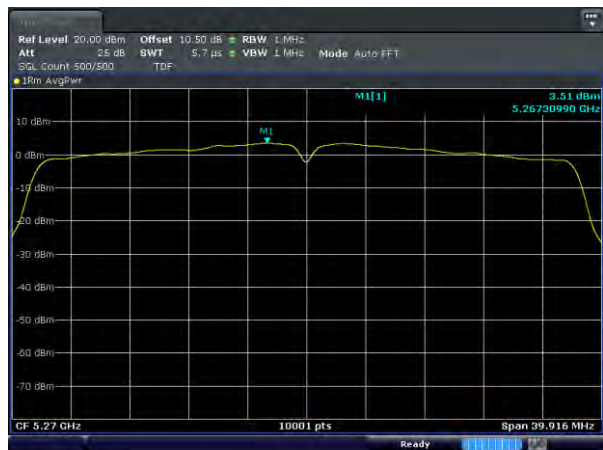
5190MHz



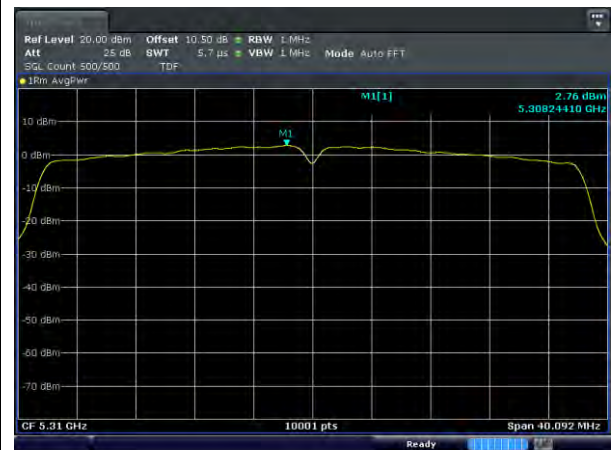
5230MHz



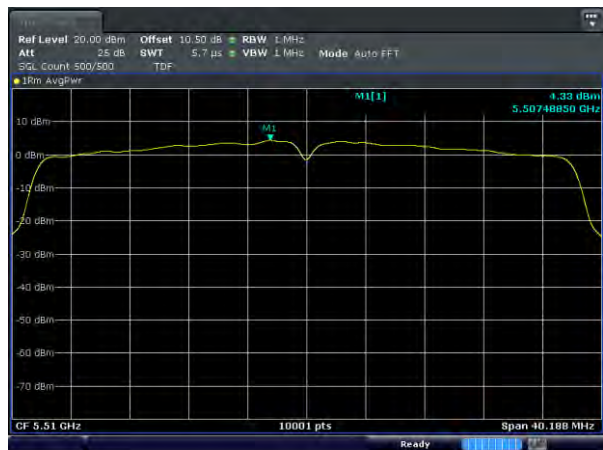
5270MHz



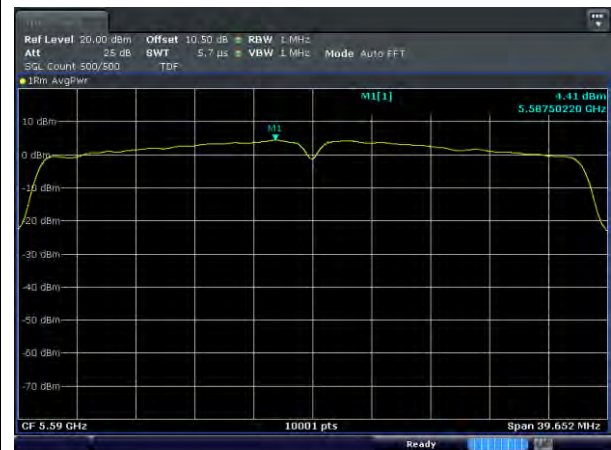
5310MHz



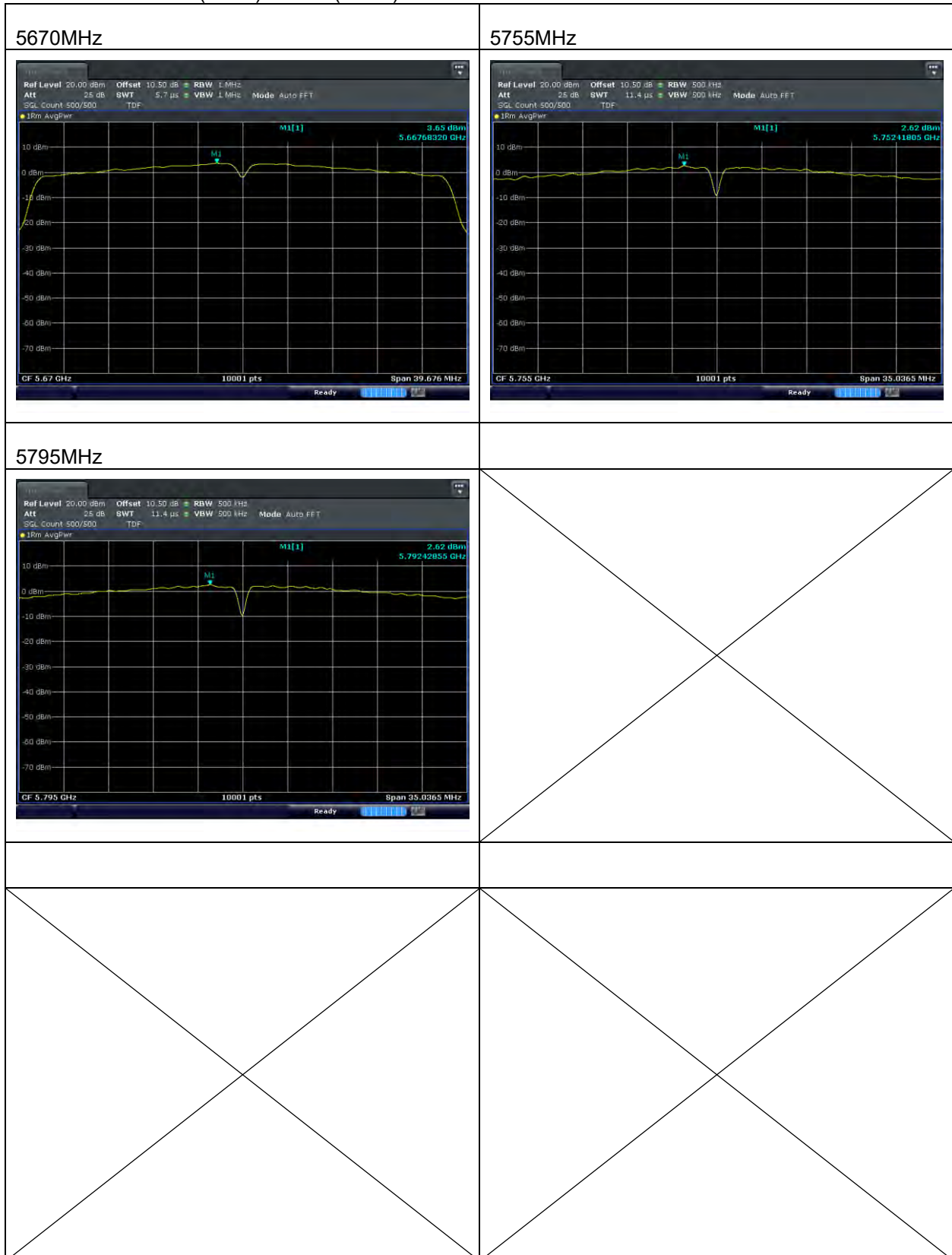
5510MHz



5590MHz



Test mode : 802.11n(HT40) / MIMO(ANT1)

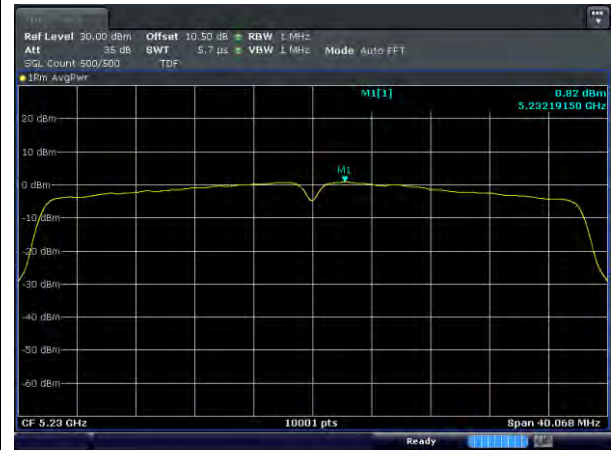


Test mode : 802.11n(HT40) / MIMO(ANT2)

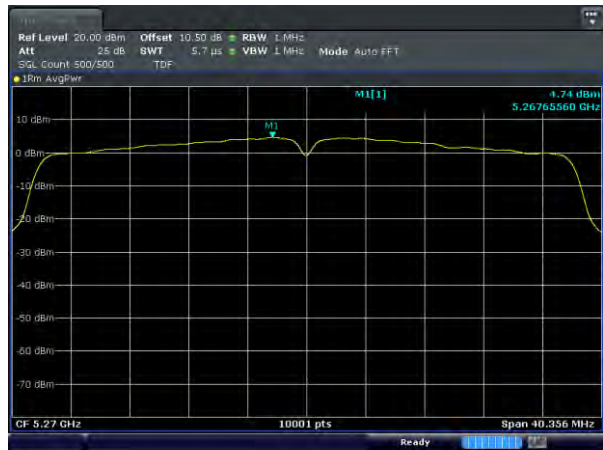
5190MHz



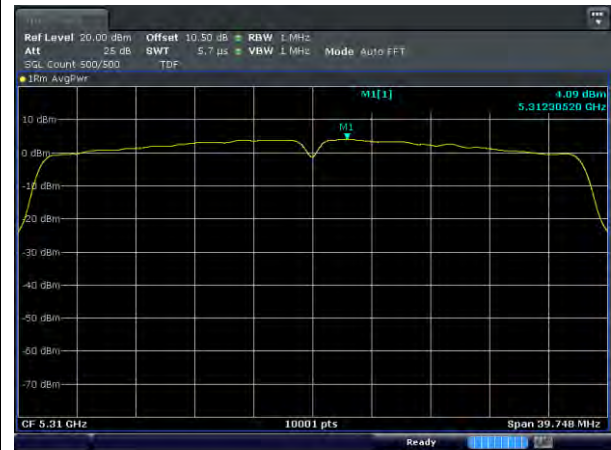
5230MHz



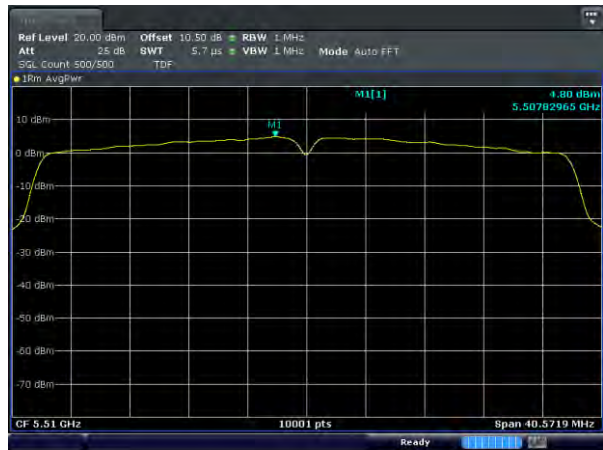
5270MHz



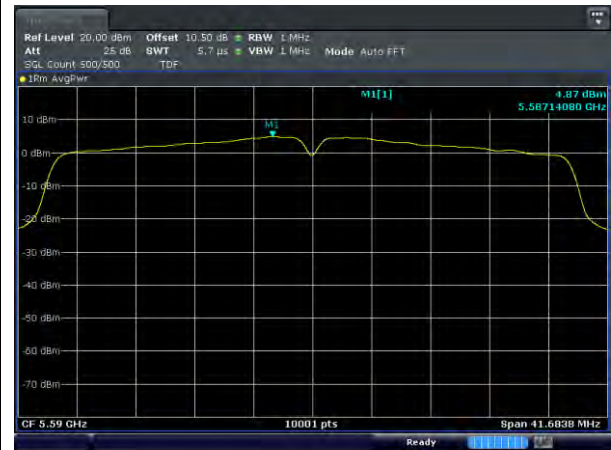
5310MHz



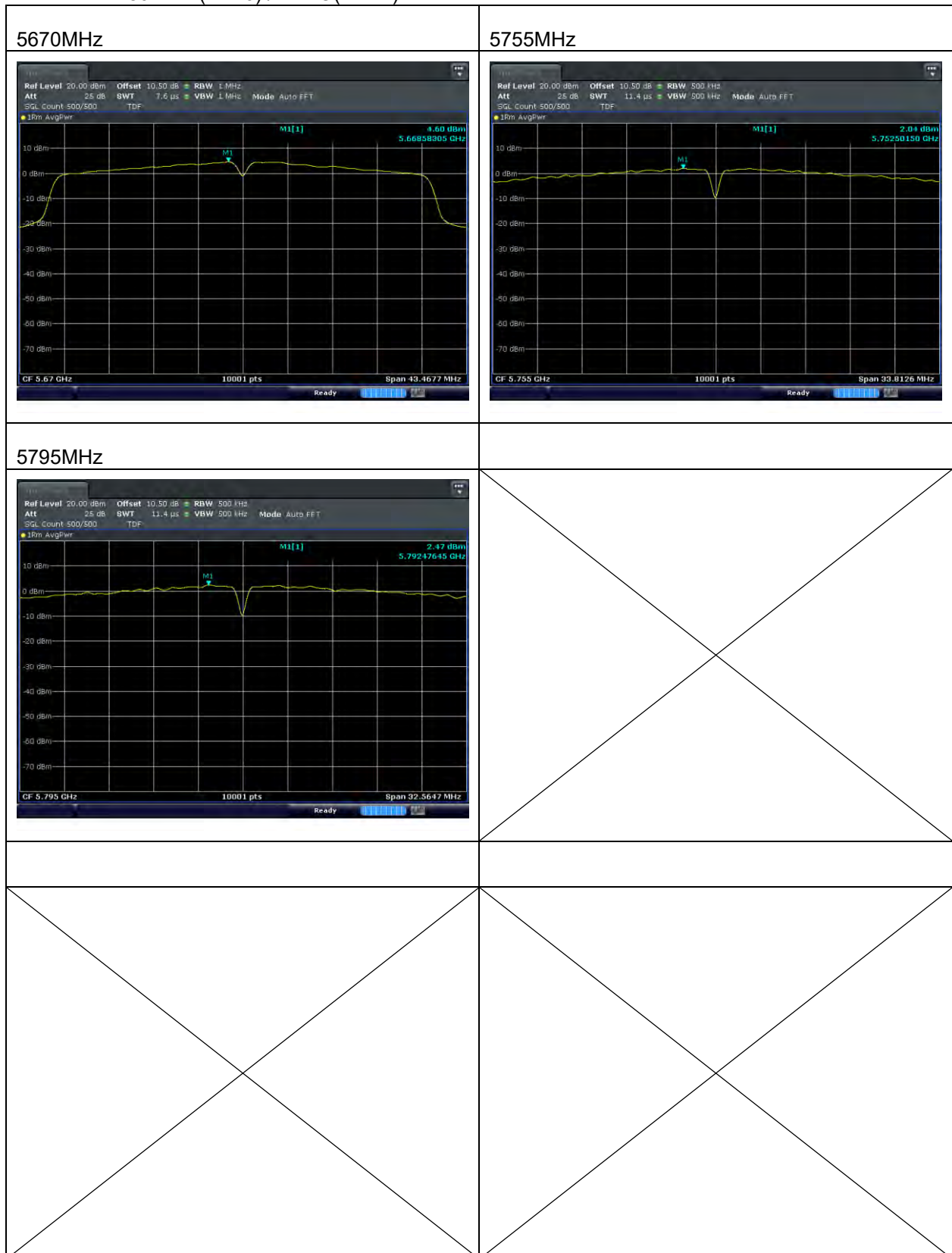
5510MHz



5590MHz



Test mode : 802.11n(HT40) / MIMO(ANT2)

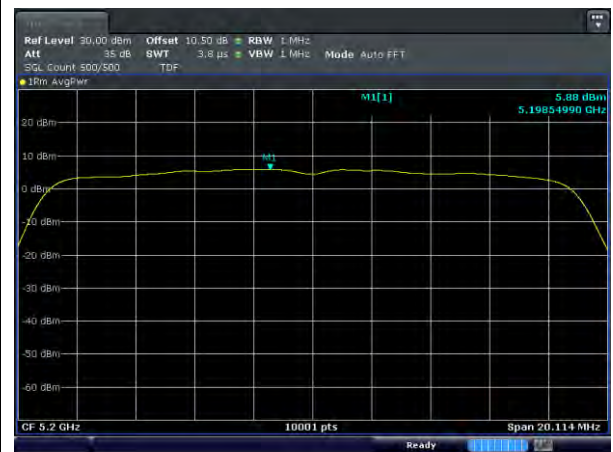


Test mode : 802.11ac(VHT20) / SISO(ANT1)

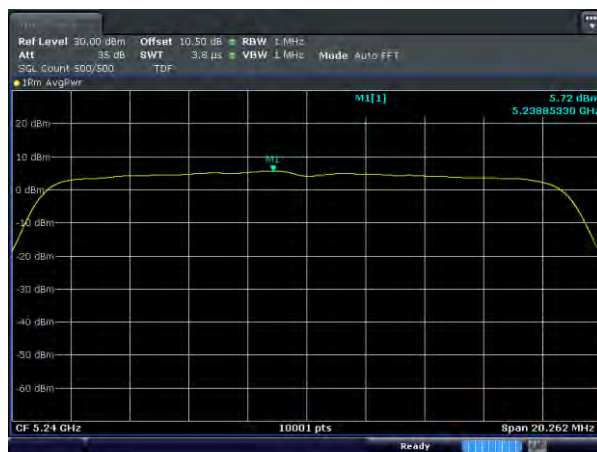
5180MHz



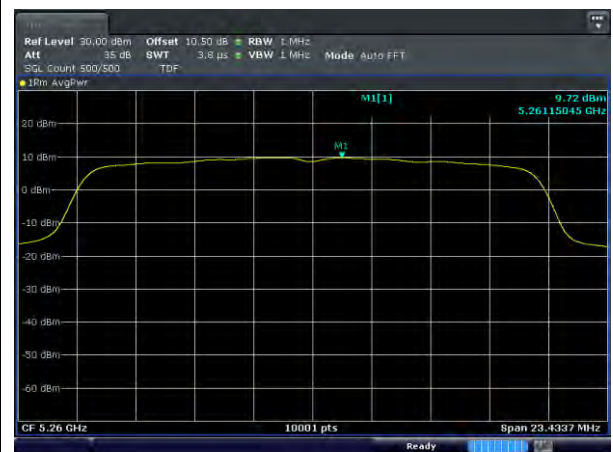
5200MHz



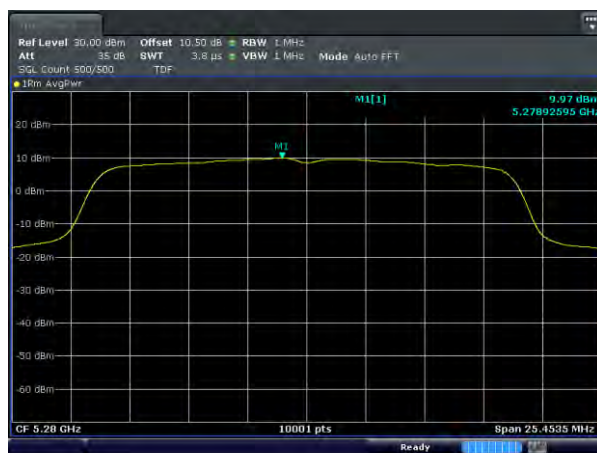
5240MHz



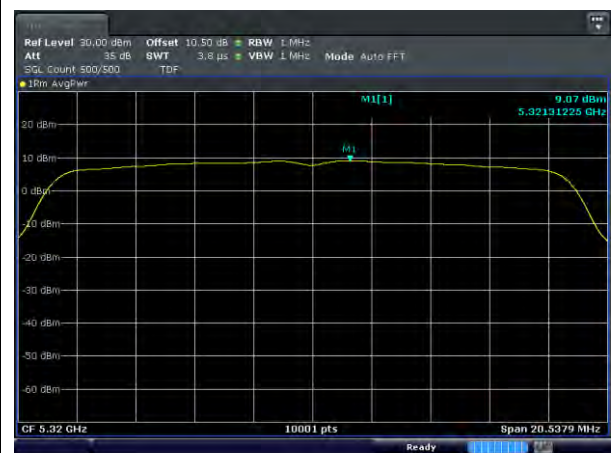
5260MHz



5280MHz

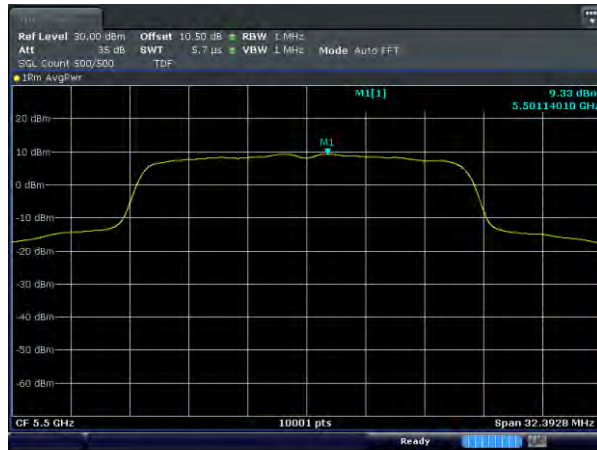


5320MHz

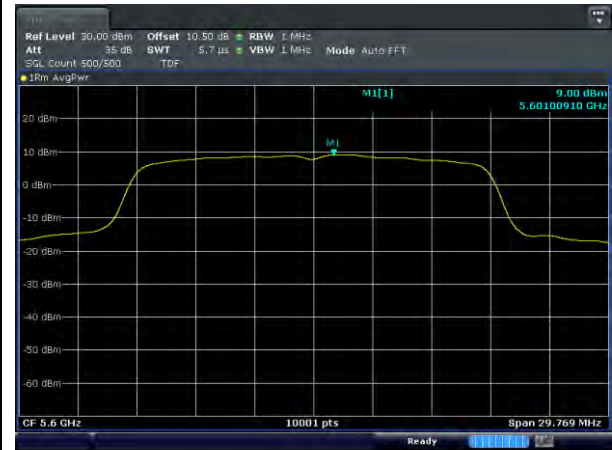


Test mode : 802.11ac(VHT20) / SISO(ANT1)

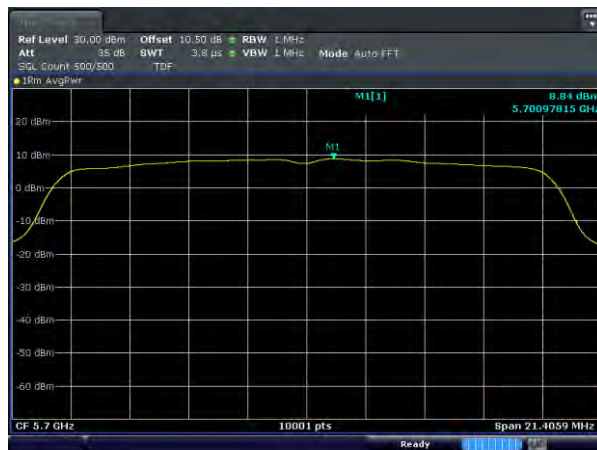
5500MHz



5600MHz



5700MHz



5745MHz



5785MHz

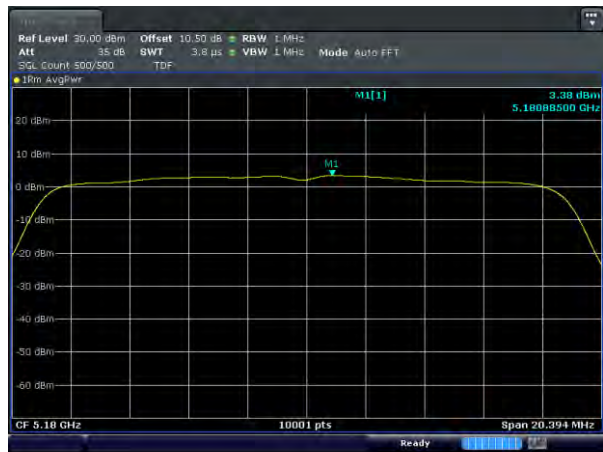


5825MHz

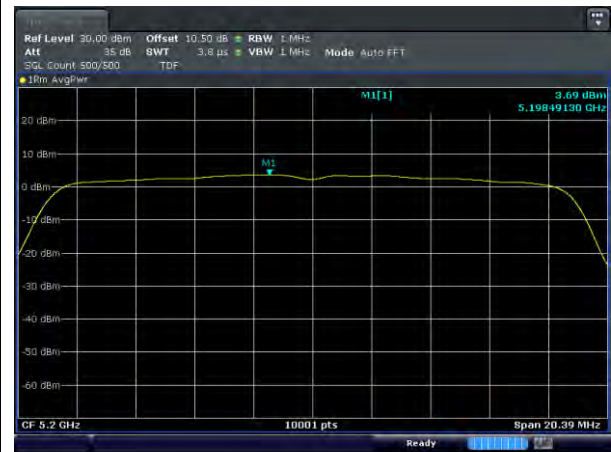


Test mode : 802.11ac(VHT20) / SISO(ANT2)

5180MHz



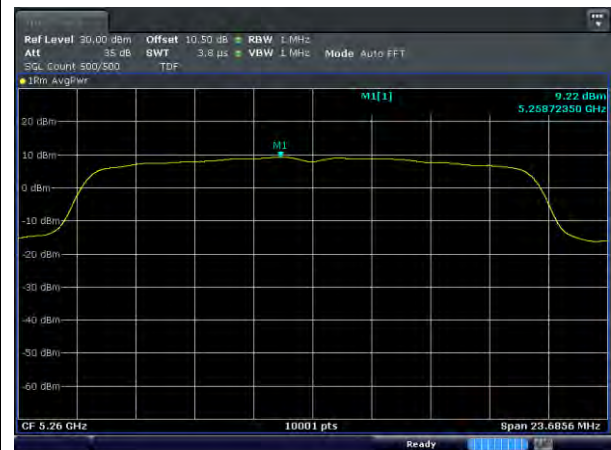
5200MHz



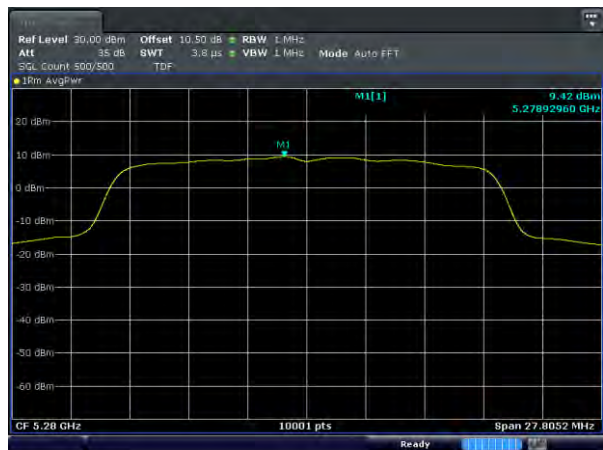
5240MHz



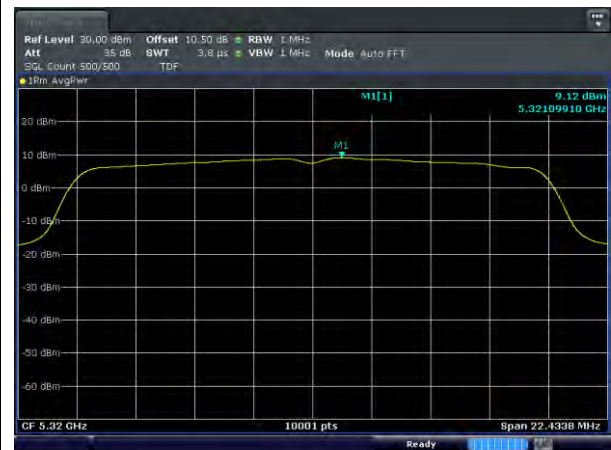
5260MHz



5280MHz

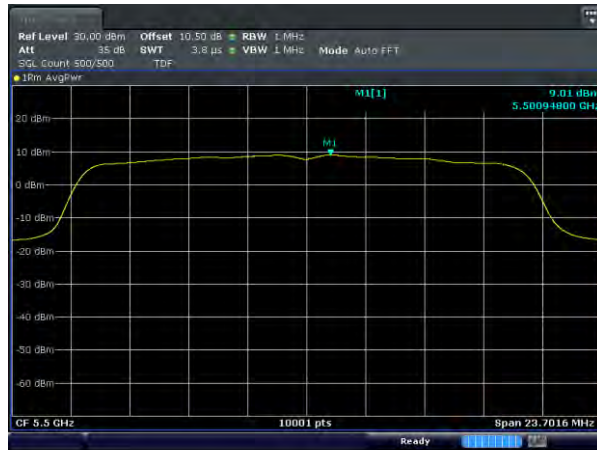


5320MHz

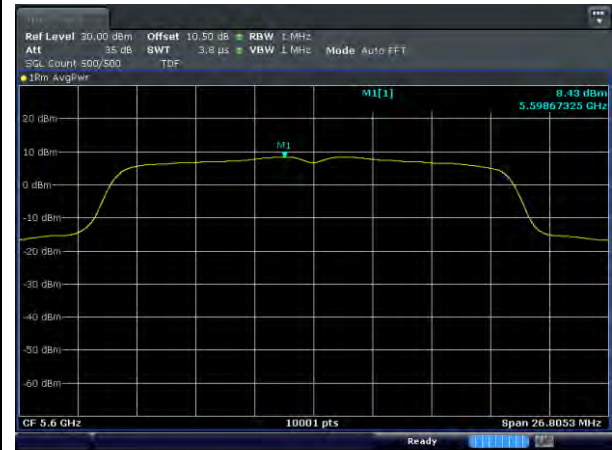


Test mode : 802.11ac(VHT20) / SISO(ANT2)

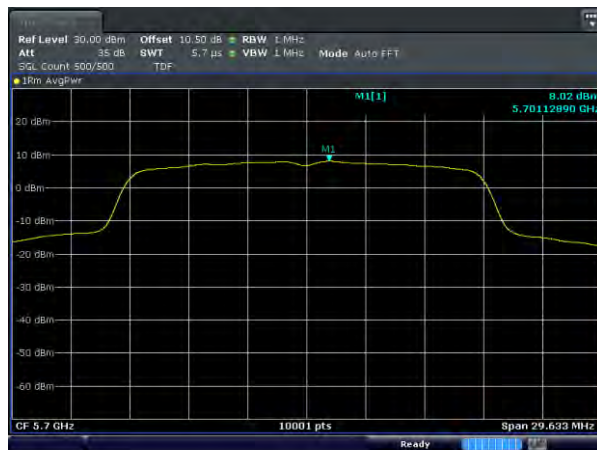
5500MHz



5600MHz



5700MHz



5745MHz



5785MHz

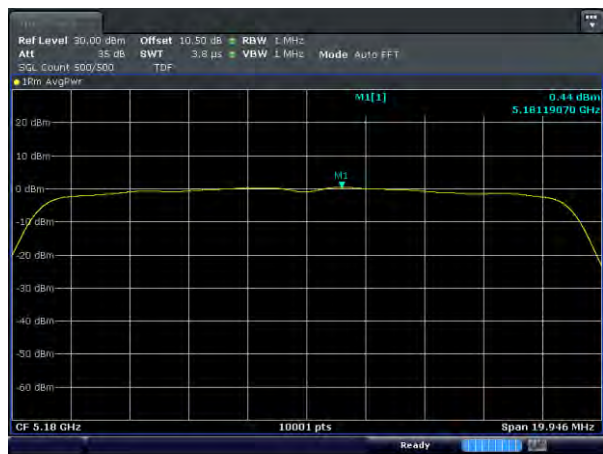


5825MHz



Test mode : 802.11ac(VHT20) / MIMO(ANT1)

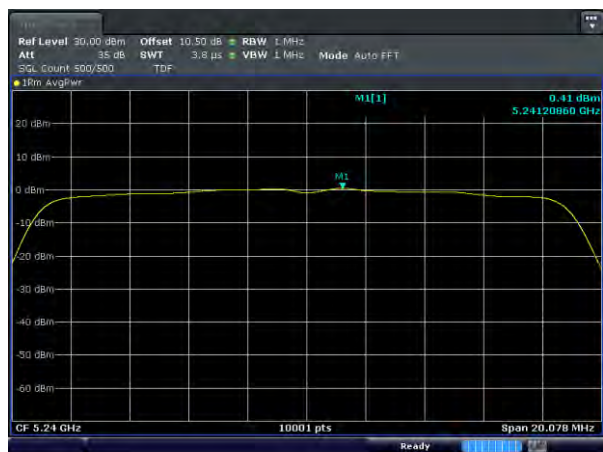
5180MHz



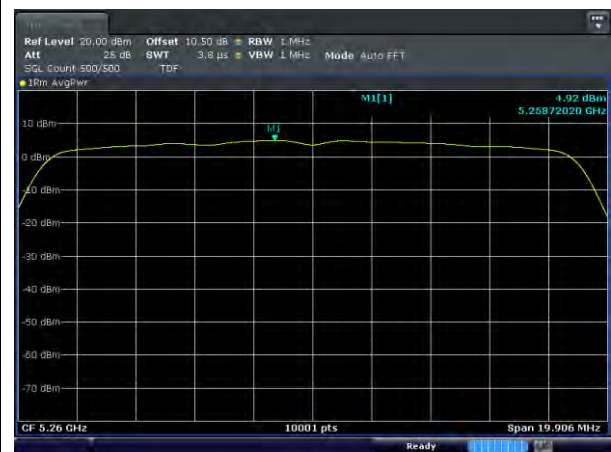
5200MHz



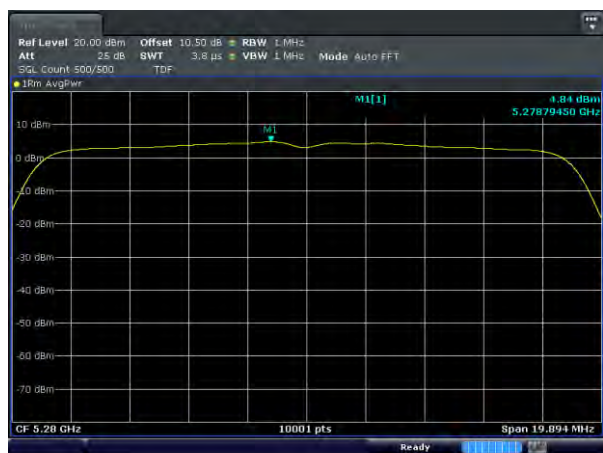
5240MHz



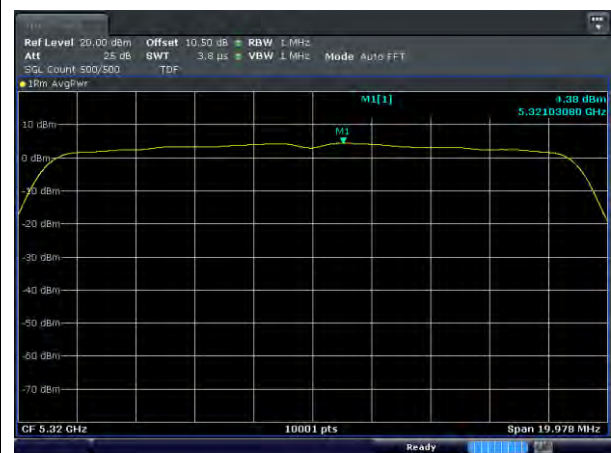
5260MHz



5280MHz

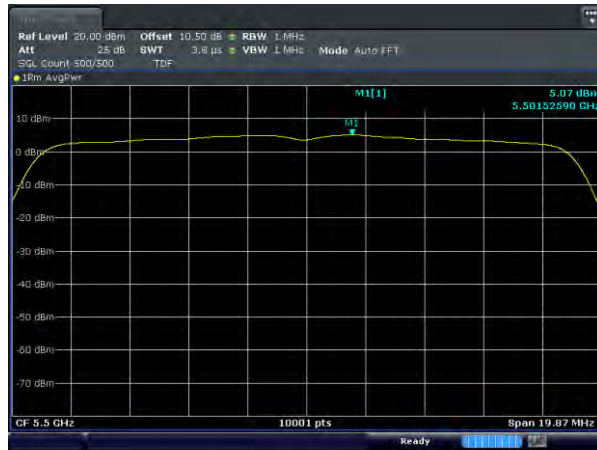


5320MHz



Test mode : 802.11ac(VHT20) / MIMO(ANT1)

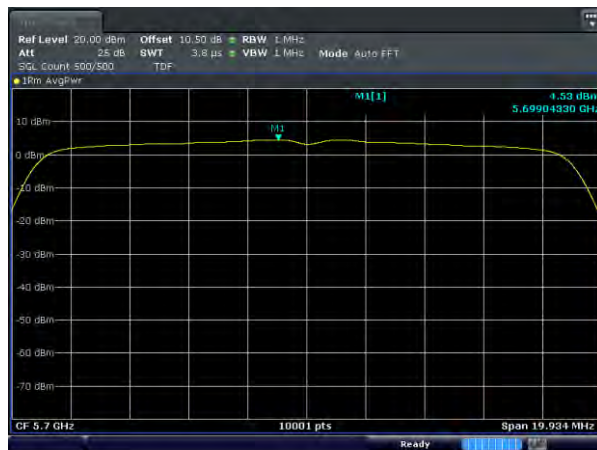
5500MHz



5600MHz



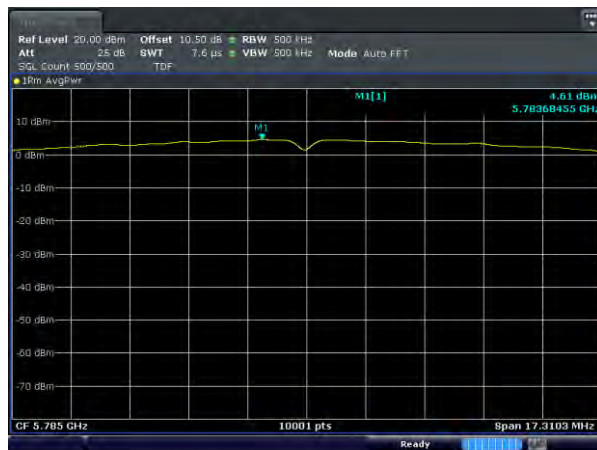
5700MHz



5745MHz



5785MHz



5825MHz



Test mode : 802.11ac(VHT20) / MIMO(ANT2)

5180MHz



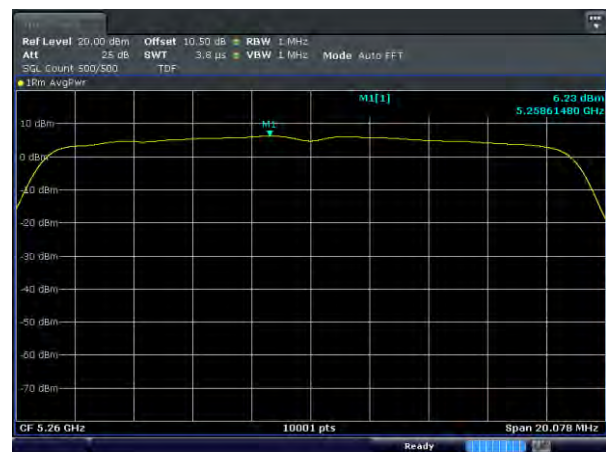
5200MHz



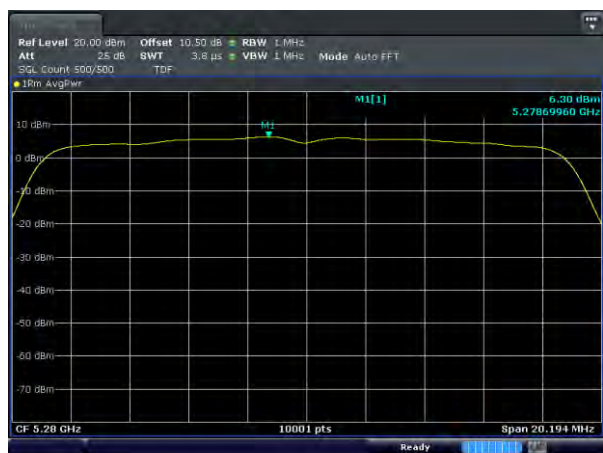
5240MHz



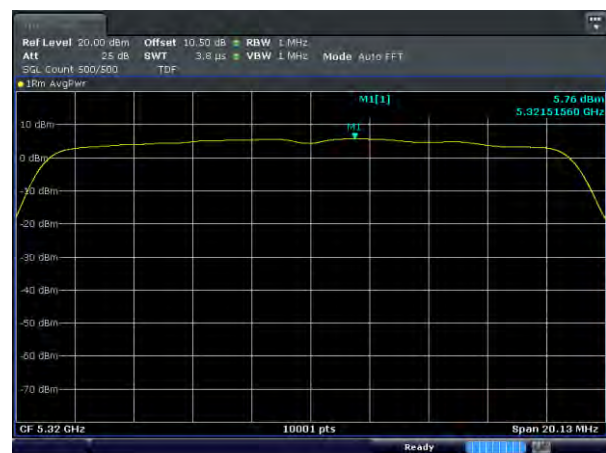
5260MHz



5280MHz

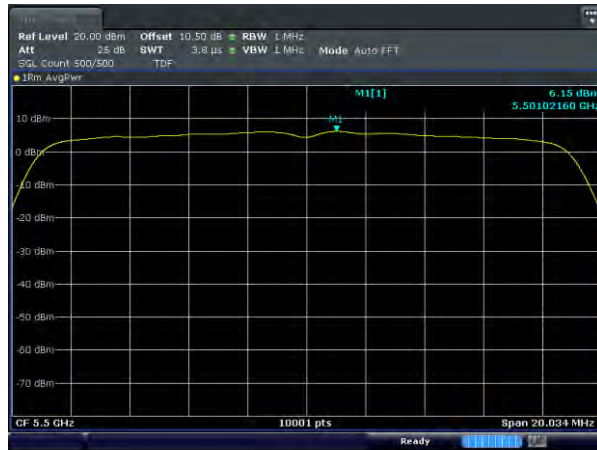


5320MHz



Test mode : 802.11ac(VHT20) / MIMO(ANT2)

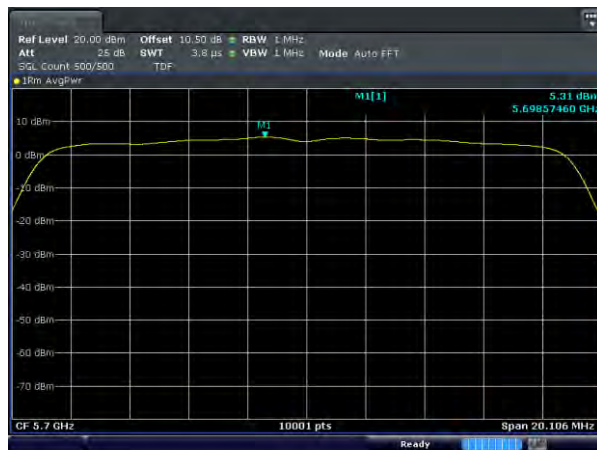
5500MHz



5600MHz



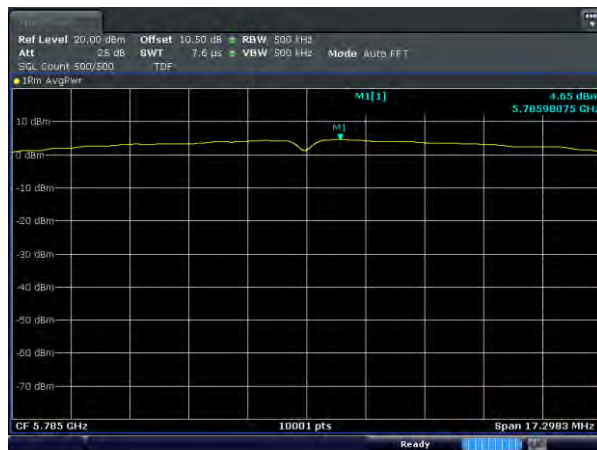
5700MHz



5745MHz



5785MHz



5825MHz

