



FCC RF Test Report

APPLICANT : ASUSTeK COMPUTER INC.
EQUIPMENT : ASUS Phone (Mobile Phone)
BRAND NAME : ASUS
MODEL NAME : ASUS_AI2205_E, ASUS_AI2205_F
FCC ID : MSQAI2205
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Feb. 07, 2023 ~ Mar. 28, 2023

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

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Approved by: Jason Jia



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR2D3005E	Rev. 01	Initial issue of report	Apr. 12, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 7.97 dB at 0.15 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 2.04 dB at 5646.80 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

1.2 Manufacturer

ASUSTeK COMPUTER INC.

1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	ASUS Phone (Mobile Phone)
Brand Name	ASUS
Model Name	ASUS_AI2205_E, ASUS_AI2205_F
FCC ID	MSQAI2205
IMEI Code	Conducted: 357795480101637/357795480101645 Conduction: 355156850100851/355156850100869 Radiation: 355156850101198/355156850101206 for Sample 1 350217060101033/350217060101041 for Sample 2
HW Version	R2.0
SW Version	Android 13
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are four SKUs of EUT for this project. The differences between them are summary below, According to the difference, we evaluate SKU1 (ASUS_AI2205_F) to perform full test and SKU2 (ASUS_AI2205_E) is verified worse case for RSE testing.

Sample list				
	SKU1	SKU2	SKU3	SKU4
Model name	ASUS_AI2205_F	ASUS_AI2205_E	ASUS_AI2205_F	ASUS_AI2205_E
Config.	US(Pro)	US(Entry)	US(Pro)	US(Entry)
RF module board	US(Pro)	US(Entry)	US(Pro)	US(Entry)
LCD+Touch front frame	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW
DDR	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B
UFS	512G(Kioxia)(UFS4.0) Kioxia / THGJFJT2T85BAT0	512G(Samsung)(UFS4.0) Samsung /KLUF8RHHD-B0G1	512G(Kioxia)(UFS4.0) Kioxia / THGJFJT2T85BAT0	512G(Samsung)(UFS4.0) Samsung /KLUF8RHHD-B0G1
MB	AI2205_MB	AI2205_MB	AI2205_MB	AI2205_MB
Back cover	WW-Dark-Ult	WW-Light-Entry	WW-Dark-Ult	WW-Light-Entry

Battery	SCUD / C21P2101	SWD / C21P2101	SWD / C21P2101	SCUD / C21P2101
Rear Camera 50+13M	SHINETECH/CDN60B	TRIPLEWIN/CASDA-002A 1	TRIPLEWIN/CASDA-002A 1	SHINETECH/CDN60B
Front Camera 32M	TSPRECISION/TVHF2170	SHINETECH/ST-CMG07B	SHINETECH/ST-CMG07B	TSPRECISION/TVHF2170
Rear Camera 5M	HUNAN KINGCOME/KBFE378	TSPRECISION/TV8F2224	TSPRECISION/TV8F2224	HUNAN KINGCOME/KBFE378
PCB	COMPEQ	COMPEQ	COMPEQ	COMPEQ
CPU	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	MIMO <Ant. 5 + 4> <5180 MHz ~ 5240 MHz> 802.11a : 21.79 dBm / 0.1510 W 802.11be EHT20: 23.09 dBm / 0.2037 W 802.11be EHT40: 22.48 dBm / 0.1770 W 802.11be EHT80: 21.65 dBm / 0.1462 W 802.11be EHT160: 21.58 dBm / 0.1439 W <5260 MHz ~ 5320 MHz> 802.11a : 22.18 dBm / 0.1652 W 802.11be EHT20: 22.96 dBm / 0.1977 W 802.11be EHT40: 22.79 dBm / 0.1901 W 802.11be EHT80: 20.99 dBm / 0.1256 W <5500 MHz ~ 5700 MHz > 802.11a : 22.69 dBm / 0.1858 W 802.11be EHT20: 22.85 dBm / 0.1928 W 802.11be EHT40: 22.94 dBm / 0.1968 W 802.11be EHT80: 21.74 dBm / 0.1493 W <5745 MHz ~ 5825 MHz> 802.11a : 22.48 dBm / 0.1770 W 802.11be EHT20: 22.78 dBm / 0.1897 W 802.11be EHT40: 23.19 dBm / 0.2084 W 802.11be EHT80: 23.06 dBm / 0.2023 W MIMO <Ant. 5 + 6> <5180 MHz ~ 5240 MHz> 802.11a : 21.92 dBm / 0.1556 W 802.11be EHT20: 22.63 dBm / 0.1832 W 802.11be EHT40: 21.95 dBm / 0.1567 W 802.11be EHT80: 21.17 dBm / 0.1309 W 802.11be EHT160: 21.09 dBm / 0.1285 W <5260 MHz ~ 5320 MHz> 802.11a : 21.76 dBm / 0.1500 W 802.11be EHT20: 22.56 dBm / 0.1803 W 802.11be EHT40: 22.17 dBm / 0.1648 W 802.11be EHT80: 20.63 dBm / 0.1156 W <5500 MHz ~ 5700 MHz > 802.11a : 22.16 dBm / 0.1644 W 802.11be EHT20: 22.54 dBm / 0.1795 W

	802.11be EHT40: 23.05 dBm / 0.2018 W 802.11be EHT80: 21.72 dBm / 0.1486 W <5745 MHz ~ 5825 MHz> 802.11a : 22.35 dBm / 0.1718 W 802.11be EHT20: 22.51 dBm / 0.1782 W 802.11be EHT40: 22.91 dBm / 0.1954 W 802.11be EHT80: 22.82 dBm / 0.1914 W
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 17.742 MHz 802.11be EHT20 : 20.06 MHz 802.11be EHT40 : 38.761 MHz 802.11be EHT80 : 78.322 MHz 802.11be EHT160 : 159.520 MHz <5260 MHz ~ 5320 MHz> 802.11a : 17.542 MHz 802.11be EHT20 : 19.421 MHz 802.11be EHT40 : 38.122 MHz 802.11be EHT80 : 78.641 MHz <5500 MHz ~ 5700 MHz> 802.11a : 17.702 MHz 802.11be EHT20 : 19.421 MHz 802.11be EHT40 : 38.921 MHz 802.11be EHT80 : 78.322 MHz <5745 MHz ~ 5825 MHz> 802.11a : 17.662 MHz 802.11be EHT20 : 19.381 MHz 802.11be EHT40 : 38.282 MHz 802.11be EHT80 : 78.002 MHz
Antenna Type	PIFA Antenna
Antenna Gain	<Ant. 4> 5180 MHz ~ 5240 MHz: -3.84 dBi 5260 MHz ~ 5320 MHz: -1.58 dBi 5500 MHz ~ 5700 MHz: -2.04 dBi 5745 MHz ~ 5825 MHz: -1.94 dBi <Ant. 5> 5180 MHz ~ 5240 MHz: 0.55 dBi 5260 MHz ~ 5320 MHz: 0.57 dBi 5500 MHz ~ 5700 MHz: 0.76 dBi 5745 MHz ~ 5825 MHz: 0.81 dBi <Ant. 6> 5180 MHz ~ 5240 MHz: -0.81 dBi 5260 MHz ~ 5320 MHz: -0.25 dBi 5500 MHz ~ 5700 MHz: -0.07 dBi 5745 MHz ~ 5825 MHz: -1.17 dBi
Type of Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

Note:

1. WLAN operation in 5600 MHz ~ 5650 MHz is notched.
2. MIMO mode only support CDD mode.
3. For WLAN SISO & MIMO mode, the whole testing assess MIMO mode to cover SISO mode.

4. The device supports MIMO Ant.5+4 for Normal mode and switch MIMO Ant.5+6 for Camera mode.
5. For 802.11n/11ac/11ax/11be modes, the whole testing have assessed only 802.11be EHT20/ EHT 40/ EHT 80/ EHT 160 by referring to the higher output power.
6. 802.11ax/be support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power/PSD, the full RU PSD > partial RU, therefore the full RU perform full test to cover partial RU, and partial RU verify Bandedge/Spurious.
7. 802.11be support small size RU, Large size RU and Puncturing modes as below, and these partial RU Power/PSD less than full RU, therefore these partial RU only assess Power Density/RSE.

<Small size RU>:

- a. For Low channel, 52Tone_Index38 + 26Tone_Index1 and 106Tone_Index53 + 26Tone_Index4.
- b. For High channel, 52Tone_Index39 + 26Tone_Index7 and 106Tone_Index54 + 26Tone_Index4.

<Large size RU>:

BWs/channels	Tones		Index		For test modes configure
80MHz/ch42/58/106	484	242	66	61	2
80MHz/ch42/58/106	484	242	65	63	4
160MHz/ch50	996-Left	484-Right	67-Left	66-Right	3
160MHz/ch50	996-Left	484-Right	67-Left	65-Right	4

<Puncturing 20MHz modes>:

BWs/channels	Tones		Index		For test modes configure
80MHz ch42/58/106	484	242	66	62	1
80MHz ch42/58/106	484	242	66	61	2
80MHz ch42/58/106	484	242	65	64	3
80MHz ch42/58/106	484	242	65	63	4

BWs/ channels	Tones			Index			For test modes configure
160MHz ch50	242-Left	484-Left	996-Right	62-Left	66-Left	67-Right	1
160MHz ch50	242-Left	484-Left	996-Right	61-Left	66-Left	67-Right	2
160MHz ch50	484-Left	242-Left	996-Right	65-Left	63-Left	67-Right	4
160MHz ch50	996-Left	242-Right	484-Right	67-Left	61-Right	66-Right	6
160MHz ch50	996-Left	484-Right	242-Right	67-Left	65-Right	63-Right	8

<Puncturing 40MHz modes>:

BWs/channels	Tones		Index		For test modes configure
160MHz/ch50	484-Left	996-Right	66-Left	67-Right	1
160MHz/ch50	484-Left	996-Right	65-Left	67-Right	2
160MHz/ch50	996-Left	484-Right	67-Left	66-Right	3
160MHz/ch50	996-Left	484-Right	67-Left	65-Right	4



Only the worse cases are shown in this report.

8. The worse cases of RSE for partial RU, Large size RU and small size RU are shown in this report.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b



1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X/Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5180-5250 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	50 ²	5250
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	-	-
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	114 ²	5570
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
	112	5560	-	-



Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151 [*]	5755	159 [*]	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

1. The above Frequency and Channel in "^{*}" were 802.11n HT40/11ac VHT40/11ax HE40 /11be EHT40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80/11ax HE80/11be EHT80.
3. The above Frequency and Channel in "²" were 802.11ac VHT160/11ax HE160/11be EHT160.

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0

AC Conducted Emission	Mode 1 : GSM 850 Idle + BT Link + WLAN Link(5G) + USB Cable 1(Charging from Adapter) + Battery 1
------------------------------	--

CO-location mode
Sample 1 for Ant 5+4 WLAN 2.4G 802.11be EHT40 Ch03 Tx + WLAN 5G 802.11be EHT160 CH50 Tx + LTE Band 48 Link BLE(2M) Ch39 Tx + WLAN 2.4G 802.11be EHT40 Ch03 Tx + WLAN 5G 802.11be EHT160 CH50 Tx + LTE Band 48 Link Sample 1 for Ant 5+6 WLAN 2.4G 802.11be EHT40 Ch03 Tx + WLAN 5G 802.11be EHT40 CH46Tx + LTE Band 48 Link BLE(2M) Ch39 Tx + WLAN 2.4G 802.11be EHT40 Ch03 Tx + WLAN 5G 802.11be EHT40 CH46 Tx + LTE Band 48 Link Sample 2 for Ant 5+6 WLAN 2.4G 802.11be EHT40 Ch03 Tx + WLAN 5G 802.11be EHT40 CH46Tx + LTE Band 48 Link BLE(2M) Ch39 Tx + WLAN 2.4G 802.11be EHT40 Ch03 Tx + WLAN 5G 802.11be EHT40 CH46 Tx + LTE Band 48 Link

Remark:

1. For Radiated Test Cases, The tests were performance with Adapter 1, Battery 1, USB Cable 1.
2. The Simultaneous transmission mode are assessed from the worst combination of WLAN 2.4G TX + Bluetooth TX + WWAN Link mode.



Ch. #		U-NII-1 5180-5250 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		802.11a	802.11a	802.11a	802.11a
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165

Ch. #		U-NII-1 5180-5250 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		802.11be EHT20	802.11be EHT20	802.11be EHT20	802.11be EHT20
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165

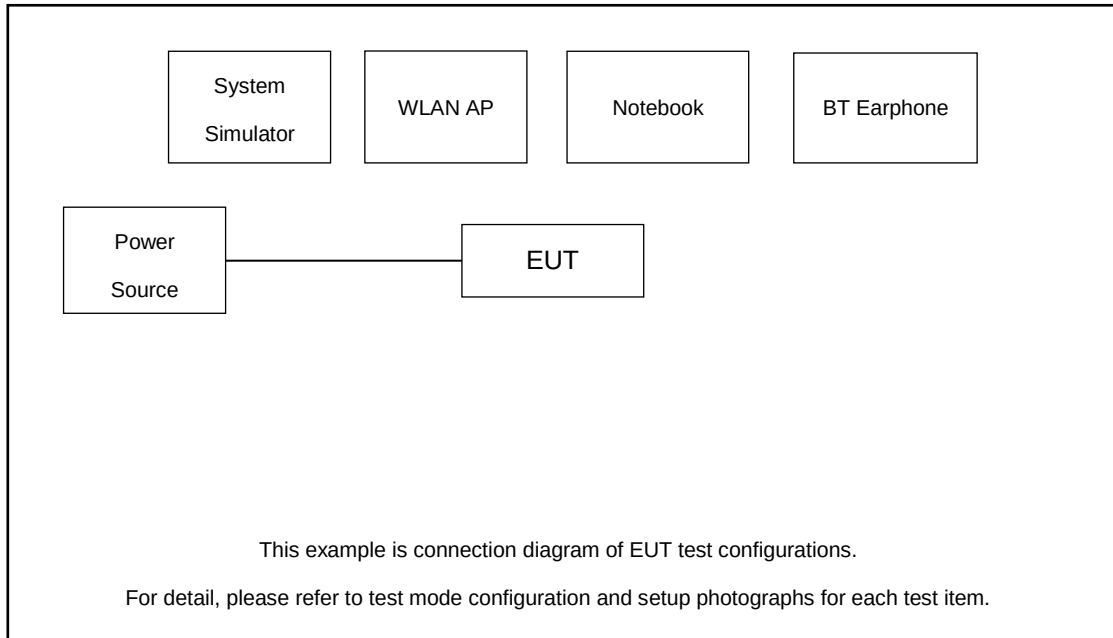
Ch. #		U-NII-1 5180-5250 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		802.11be EHT40	802.11be EHT40	802.11be EHT40	802.11be EHT40
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159

Ch. #		U-NII-1 5180-5250 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		802.11be EHT80	802.11be EHT80	802.11be EHT80	802.11be EHT80
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	122	-

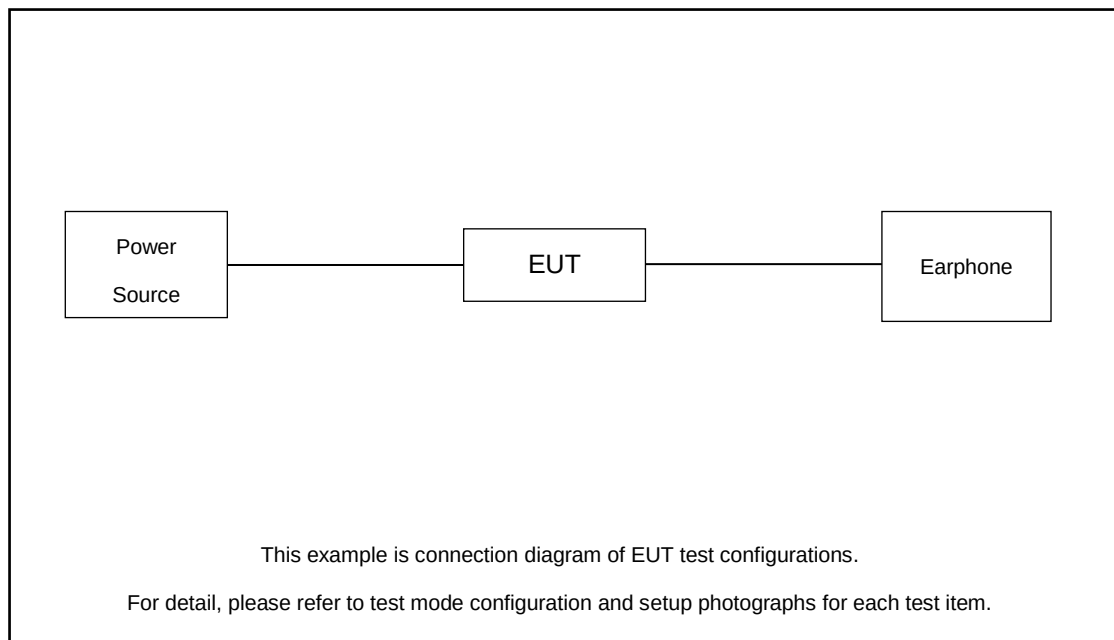
Ch. #		U-NII-1 5180-5250 MHz	U-NII-2A 5260-5320 MHz	U-NII-2C 5500-5720MHz	U-NII-3 5745-5825 MHz
		802.11be EHT160	802.11be EHT160	802.11be EHT160	802.11be EHT160
L	Low	-	-	-	-
M	Middle	50	-	114	-
H	High	-	-	-	-

2.3 Connection Diagram of Test System

For Conducted Emission:



For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
3.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.03 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.03 + 10 = 14.03 \text{ (dB)}
 \end{aligned}$$



3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

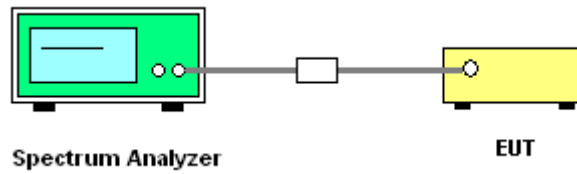
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	1. Set RBW = approximately 1% of the emission bandwidth. 2. Set the VBW > RBW. 3. Detector = Peak. 4. Trace mode = max hold 5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. 6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$. 7. Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	1. Set RBW = 100kHz. 2. Set the VBW $\geq 3 * RBW$. 3. Detector = Peak. 4. Trace mode = max hold 5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission. 6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result

Please refer to Appendix A.

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm $10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

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3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

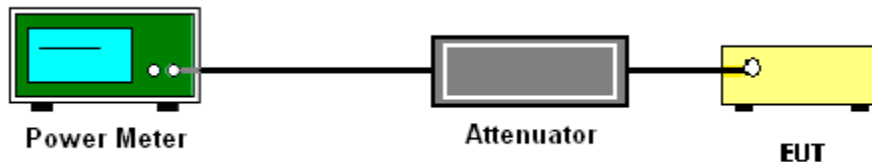
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty

factor, $10 \log(1/x)$, where x is the duty cycle.

4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Section F) Maximum power spectral density.

For devices operating in the bands UNII-1/2A/2C

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

For devices operating in the band UNII-3

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
- Set VBW $\geq$ 1 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can't set RBW=500KHz, then add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.

2. Each plot has already offset with cable loss, and attenuator loss. Measure the PSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

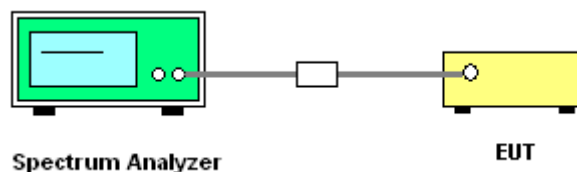
Method (a): Measure and sum the spectra across the outputs for UNII-1/2A/2C.

The total final Power Spectral Density is the bin-by-bin summation to obtain the combined spectrum. For the device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

Method (b): Measure and sum spectral maxima across the outputs for UNII-3.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz .

- (2) For transmitters operating in the 5.725-5.85 GHz band:
- 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

(4) EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

(4) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

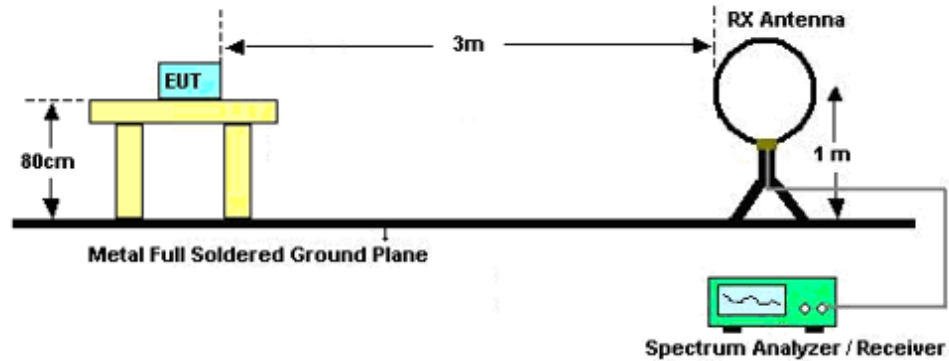
The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

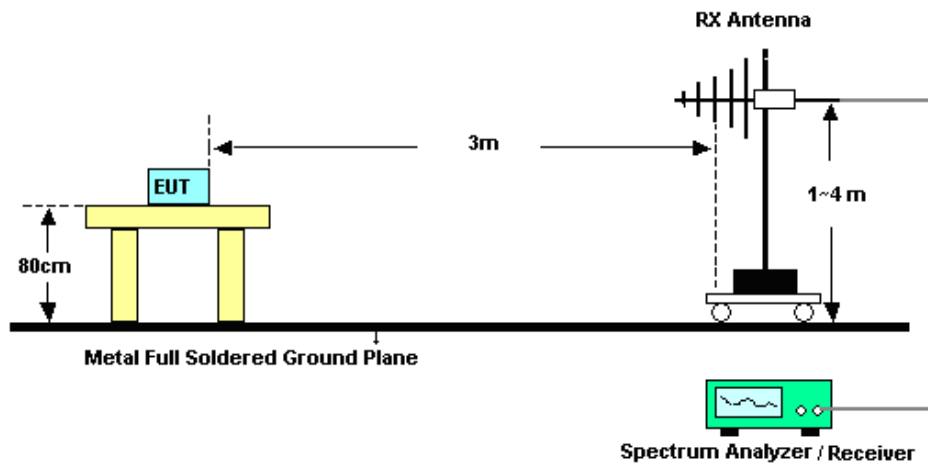
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

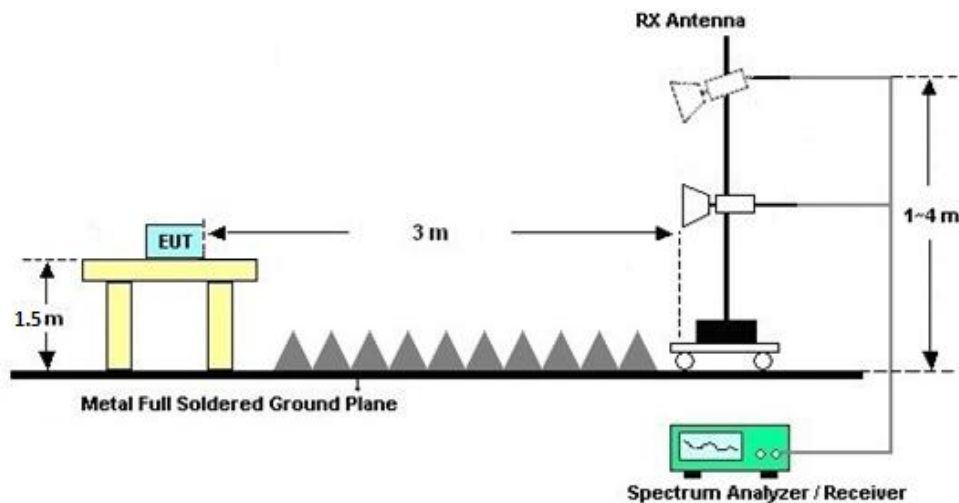
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C&D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

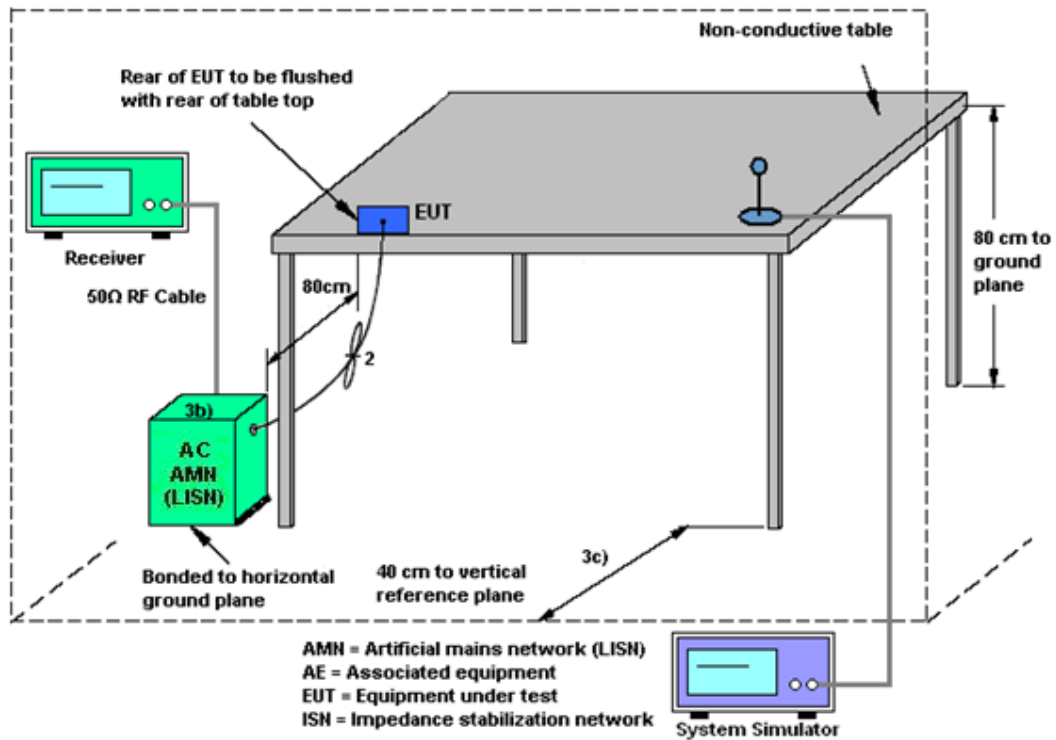
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(\text{NANT}/\text{NSS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $\text{NANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
	Ant. 5	Ant. 4	DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
UNII-1	0.55	-3.84	0.55	1.64	0.00	0.00
UNII-2A	0.57	-1.58	0.57	2.57	0.00	0.00
UNII-2C	0.76	-2.04	0.76	2.48	0.00	0.00
UNII-3	0.81	-1.94	0.81	2.55	0.00	0.00



<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 5 (dBi)	Ant. 6 (dBi)				
UNII-1	0.55	-0.81	0.55	2.91	0.00	0.00
UNII-2A	0.57	-0.25	0.57	3.18	0.00	0.00
UNII-2C	0.76	-0.07	0.76	3.37	0.00	0.00
UNII-3	0.81	-1.17	0.81	2.89	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	Feb. 10, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	Feb. 10, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	Feb. 10, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2022	Feb. 10, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 06, 2022	Feb. 07, 2023~Mar. 28, 2023	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 06, 2022	Feb. 07, 2023~Mar. 28, 2023	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Feb. 07, 2023~Mar. 28, 2023	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	AUG. 09, 2021	Feb. 07, 2023~Mar. 28, 2023	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2022	Feb. 07, 2023~Mar. 28, 2023	Apr. 07, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 10, 2022	Feb. 07, 2023~Mar. 28, 2023	Apr. 09, 2023	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 19, 2022	Feb. 07, 2023~Mar. 28, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Feb. 07, 2023~Mar. 28, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 26, 2022	Feb. 07, 2023~Mar. 28, 2023	Dec. 25, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Feb. 07, 2023~Mar. 28, 2023	Jul. 05, 2023	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	1 N/A	Nov. 10, 2022	Feb. 07, 2023~Mar. 28, 2023	Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 07, 2023~Mar. 28, 2023	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 07, 2023~Mar. 28, 2023	NCR	Radiation (03CH03-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	Feb. 25, 2023~Mar. 04, 2023	Apr. 08, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Feb. 25, 2023~Mar. 04, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Feb. 25, 2023~Mar. 04, 2023	Dec. 26, 2023	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 1.34 dB
Conducted Emissions	± 1.34 dB
Occupied Channel Bandwidth	± 0.13 %
Conducted Power Spectral Density	± 1.32 dB

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
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Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Chen Ran	Temperature:	21~25	°C
Test Date:	2023/2/25~2023/3/4	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

U-NII-1																
Mod.	Data Rate	NTx	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
11a	6Mbps	2	36	Full	5180	0.03	0.03	18.74	18.80	21.79	24.00	0.55			Pass	
11a	6Mbps	2	44	Full	5220	0.03	0.03	18.66	18.81	21.75	24.00	0.55			Pass	
11a	6Mbps	2	48	Full	5240	0.03	0.03	18.67	18.77	21.74	24.00	0.55			Pass	
HT20	MCS0	2	36	Full	5180	0.00	0.00	19.40	19.55	22.49	24.00	0.55			Pass	
HT20	MCS0	2	44	Full	5220	0.00	0.00	19.88	20.05	22.98	24.00	0.55			Pass	
HT20	MCS0	2	48	Full	5240	0.00	0.00	19.81	19.94	22.89	24.00	0.55			Pass	
HT40	MCS0	2	38	Full	5190	0.00	0.00	18.20	18.52	21.37	24.00	0.55			Pass	
HT40	MCS0	2	46	Full	5230	0.00	0.00	19.06	18.83	21.96	24.00	0.55			Pass	
VHT20	MCS0	2	36	Full	5180	0.00	0.00	19.35	19.50	22.44	24.00	0.55			Pass	
VHT20	MCS0	2	44	Full	5220	0.00	0.00	19.75	20.04	22.91	24.00	0.55			Pass	
VHT20	MCS0	2	48	Full	5240	0.00	0.00	19.79	19.87	22.84	24.00	0.55			Pass	
VHT40	MCS0	2	38	Full	5190	0.00	0.00	18.15	18.50	21.34	24.00	0.55			Pass	
VHT40	MCS0	2	46	Full	5230	0.00	0.00	19.04	18.80	21.93	24.00	0.55			Pass	
VHT80	MCS0	2	42	Full	5210	0.00	0.00	18.53	18.65	21.60	24.00	0.55			Pass	
VHT160	MCS0	2	50	Full	5250	0.00	0.00	18.56	18.52	21.55	24.00	0.55			Pass	
HE20	MCS0	2	36	Full	5180	0.00	0.00	19.45	19.60	22.54	24.00	0.55			Pass	
				26/0		0.00	0.00	9.44	10.18	12.84	24.00	0.55			Pass	
				52/37		0.00	0.00	12.38	12.61	15.51	24.00	0.55			Pass	
				106/53		0.00	0.00	15.51	15.71	18.62	24.00	0.55			Pass	
			44	Full	5220	0.00	0.00	19.89	20.16	23.04	24.00	0.55			Pass	
				Full		0.00	0.00	19.95	20.06	23.02	24.00	0.55			Pass	
				26/8		0.00	0.00	9.86	10.38	13.14	24.00	0.55			Pass	
				52/40		0.00	0.00	12.82	13.06	15.95	24.00	0.55			Pass	
			48	Full	5240	0.00	0.00	15.99	16.30	19.16	24.00	0.55			Pass	
				26/8		0.00	0.00	9.86	10.38	13.14	24.00	0.55			Pass	
				52/40		0.00	0.00	12.82	13.06	15.95	24.00	0.55			Pass	
				106/54		0.00	0.00	15.99	16.30	19.16	24.00	0.55			Pass	
HE40	MCS0	2	38	Full	5190	0.00	0.00	18.22	18.54	21.39	24.00	0.55			Pass	
			46	Full	5230	0.00	0.00	19.08	18.86	21.98	24.00	0.55			Pass	
HE80	MCS0	2	42	Full	5210	0.00	0.00	18.56	18.67	21.63	24.00	0.55			Pass	
HE160	MCS0	2	50	Full	5250	0.00	0.00	18.58	18.53	21.57	24.00	0.55			Pass	

TEST RESULTS DATA
Average Power Table

U-NII-1																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
EHT20	MCS0	2	36	Full	5180	0.00	0.00	19.50	19.65	22.59	24.00		0.55			Pass
				26/0		0.00	0.00	9.55	10.29	12.95	24.00		0.55			Pass
				52/37		0.00	0.00	12.49	12.72	15.62	24.00		0.55			Pass
				106/53		0.00	0.00	15.62	15.82	18.73	24.00		0.55			Pass
			44	Full	5220	0.00	0.00	19.96	20.20	23.09	24.00		0.55			Pass
			48	Full	5240	0.00	0.00	20.02	20.11	23.08	24.00		0.55			Pass
				26/8		0.00	0.00	9.97	10.49	13.25	24.00		0.55			Pass
				52/40		0.00	0.00	12.93	13.17	16.06	24.00		0.55			Pass
				106/54		0.00	0.00	16.10	16.41	19.27	24.00		0.55			Pass
			EHT40	MCS0	2	38	Full	5190	0.00	0.00	18.24	18.59	21.43	24.00		0.55
			46	Full	5230	0.00	0.00	19.10	19.81	22.48	24.00		0.55		Pass	
EHT80	MCS0	2	42	Full	5210	0.00	0.00	18.58	18.69	21.65	24.00		0.55		Pass	
EHT160	MCS0	2	50	Full	5250	0.00	0.00	18.60	18.54	21.58	24.00		0.55		Pass	

TEST RESULTS DATA
Average Power Table

U-NII-2A																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
11a	6Mbps	2	52	Full	5260	0.03	0.03	18.62	18.81	21.73	23.98	0.57		30	Pass	
11a	6Mbps	2	60	Full	5300	0.03	0.03	18.60	18.97	21.80	23.98	0.57		30	Pass	
11a	6Mbps	2	64	Full	5320	0.03	0.03	19.18	19.14	22.18	23.98	0.57		30	Pass	
HT20	MCS0	2	52	Full	5260	0.00	0.00	19.69	19.88	22.80	23.98	0.57		30	Pass	
HT20	MCS0	2	60	Full	5300	0.00	0.00	19.62	19.79	22.72	23.98	0.57		30	Pass	
HT20	MCS0	2	64	Full	5320	0.00	0.00	19.56	19.65	22.62	23.98	0.57		30	Pass	
HT40	MCS0	2	54	Full	5270	0.00	0.00	19.41	20.01	22.73	23.98	0.57		30	Pass	
HT40	MCS0	2	62	Full	5310	0.00	0.00	17.94	17.62	20.79	23.98	0.57		30	Pass	
VHT20	MCS0	2	52	Full	5260	0.00	0.00	19.64	19.86	22.76	23.98	0.57		30	Pass	
VHT20	MCS0	2	60	Full	5300	0.00	0.00	19.60	19.77	22.70	23.98	0.57		30	Pass	
VHT20	MCS0	2	64	Full	5320	0.00	0.00	19.52	19.62	22.58	23.98	0.57		30	Pass	
VHT40	MCS0	2	54	Full	5270	0.00	0.00	19.39	19.98	22.71	23.98	0.57		30	Pass	
VHT40	MCS0	2	62	Full	5310	0.00	0.00	17.90	17.60	20.76	23.98	0.57		30	Pass	
VHT80	MCS0	2	58	Full	5290	0.00	0.00	17.90	17.96	20.94	23.98	0.57		30	Pass	
HE20	MCS0	2	52	Full	5260	0.00	0.00	19.84	20.03	22.95	23.98	0.57		30	Pass	
				26/0		0.00	0.00	9.78	10.06	12.93	23.98	0.57		30	Pass	
				52/37		0.00	0.00	12.86	12.37	15.63	23.98	0.57		30	Pass	
				106/53		0.00	0.00	16.03	15.63	18.84	23.98	0.57		30	Pass	
			64	Full	5320	0.00	0.00	19.76	19.88	22.83	23.98	0.57		30	Pass	
				26/8		0.00	0.00	10.00	10.17	13.10	23.98	0.57		30	Pass	
				52/40		0.00	0.00	13.00	12.85	15.94	23.98	0.57		30	Pass	
				106/54		0.00	0.00	16.06	16.14	19.11	23.98	0.57		30	Pass	
HE40	MCS0	2	54	Full	5270	0.00	0.00	19.43	20.03	22.75	23.98	0.57		30	Pass	
			62	Full	5310	0.00	0.00	17.96	17.64	20.81	23.98	0.57		30	Pass	
HE80	MCS0	2	58	Full	5290	0.00	0.00	17.93	17.98	20.97	23.98	0.57		30	Pass	

TEST RESULTS DATA
Average Power Table

U-NII-2A																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
EHT20	MCS0	2	52	Full	5260	0.00	0.00	19.85	20.04	22.96	23.98		0.57		30	Pass
				26/0		0.00	0.00	9.90	10.18	13.05	23.98		0.57		30	Pass
				52/37		0.00	0.00	12.98	12.49	15.75	23.98		0.57		30	Pass
				106/53		0.00	0.00	16.15	15.75	18.96	23.98		0.57		30	Pass
			60	Full	5300	0.00	0.00	19.85	19.92	22.90	23.98		0.57		30	Pass
				Full		0.00	0.00	19.74	19.91	22.84	23.98		0.57		30	Pass
			64	26/8	5320	0.00	0.00	10.12	10.29	13.22	23.98		0.57		30	Pass
				52/40		0.00	0.00	13.12	12.97	16.06	23.98		0.57		30	Pass
				106/54		0.00	0.00	16.18	16.26	19.23	23.98		0.57		30	Pass
				Full		0.00	0.00	19.47	20.06	22.79	23.98		0.57		30	Pass
EHT40	MCS0	2	54	Full	5270	0.00	0.00	19.47	20.06	22.79	23.98		0.57		30	Pass
62	Full		5310	0.00	0.00	17.99	17.69	20.85	23.98		0.57		30	Pass		
EHT80	MCS0	2	58	Full	5290	0.00	0.00	17.96	18.00	20.99	23.98		0.57		30	Pass

TEST RESULTS DATA
Average Power Table

U-NII-2C																
Mod.	Data Rate	NTx	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
11a	6Mbps	2	100	Full	5500	0.03	0.03	18.90	19.41	22.18	23.98		0.76		30	Pass
11a	6Mbps	2	116	Full	5580	0.03	0.03	19.48	19.86	22.69	23.98		0.76		30	Pass
11a	6Mbps	2	140	Full	5700	0.03	0.03	19.23	19.68	22.48	23.98		0.76		30	Pass
HT20	MCS0	2	100	Full	5500	0.00	0.00	19.25	19.88	22.59	23.98		0.76		30	Pass
HT20	MCS0	2	116	Full	5580	0.00	0.00	19.23	19.72	22.49	23.98		0.76		30	Pass
HT20	MCS0	2	140	Full	5700	0.00	0.00	19.13	19.57	22.37	23.98		0.76		30	Pass
HT40	MCS0	2	102	Full	5510	0.00	0.00	18.53	18.75	21.65	23.98		0.76		30	Pass
HT40	MCS0	2	110	Full	5550	0.00	0.00	19.65	19.96	22.82	23.98		0.76		30	Pass
HT40	MCS0	2	134	Full	5670	0.00	0.00	19.62	20.00	22.82	23.98		0.76		30	Pass
VHT20	MCS0	2	100	Full	5500	0.00	0.00	19.21	19.25	22.24	23.98		0.76		30	Pass
VHT20	MCS0	2	116	Full	5580	0.00	0.00	19.20	19.62	22.43	23.98		0.76		30	Pass
VHT20	MCS0	2	140	Full	5700	0.00	0.00	19.08	19.53	22.32	23.98		0.76		30	Pass
VHT40	MCS0	2	102	Full	5510	0.00	0.00	18.52	18.71	21.63	23.98		0.76		30	Pass
VHT40	MCS0	2	110	Full	5550	0.00	0.00	19.60	19.93	22.78	23.98		0.76		30	Pass
VHT40	MCS0	2	134	Full	5670	0.00	0.00	19.59	19.96	22.79	23.98		0.76		30	Pass
VHT80	MCS0	2	106	Full	5530	0.00	0.00	18.65	18.71	21.69	23.98		0.76		30	Pass
HE20	MCS0	2	100	Full	5500	0.00	0.00	19.43	20.08	22.78	23.98		0.76		30	Pass
				26/0		0.00	0.00	9.87	10.56	13.24	23.98		0.76		30	Pass
				52/37		0.00	0.00	12.42	12.87	15.66	23.98		0.76		30	Pass
				106/53		0.00	0.00	15.24	16.28	18.80	23.98		0.76		30	Pass
			140	Full	5700	0.00	0.00	19.46	19.92	22.71	23.98		0.76		30	Pass
				Full		0.00	0.00	19.27	19.77	22.54	23.98		0.76		30	Pass
				26/8		0.00	0.00	10.06	10.04	13.06	23.98		0.76		30	Pass
				52/40		0.00	0.00	12.46	12.95	15.72	23.98		0.76		30	Pass
				106/54		0.00	0.00	15.57	16.18	18.90	23.98		0.76		30	Pass
HE40	MCS0	2	102	Full	5510	0.00	0.00	18.54	18.78	21.67	23.98		0.76		30	Pass
HE40	MCS0	2	110	Full	5550	0.00	0.00	19.72	19.99	22.87	23.98		0.76		30	Pass
HE40	MCS0	2	134	Full	5670	0.00	0.00	19.63	20.04	22.85	23.98		0.76		30	Pass
HE80	MCS0	2	106	Full	5530	0.00	0.00	18.67	18.73	21.71	23.98		0.76		30	Pass

TEST RESULTS DATA
Average Power Table

U-NII-2C																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
EHT20	MCS0	2	100	Full	5500	0.00	0.00	19.55	20.11	22.85	23.98		0.76		30	Pass
				26/0		0.00	0.00	9.98	10.67	13.35	23.98		0.76		30	Pass
				52/37		0.00	0.00	12.53	12.98	15.77	23.98		0.76		30	Pass
				106/53		0.00	0.00	15.35	16.39	18.91	23.98		0.76		30	Pass
			116	Full	5580	0.00	0.00	19.52	20.03	22.79	23.98		0.76		30	Pass
			140	Full	5700	0.00	0.00	19.33	19.86	22.61	23.98		0.76		30	Pass
				26/8		0.00	0.00	10.17	10.15	13.17	23.98		0.76		30	Pass
				52/40		0.00	0.00	12.57	13.06	15.83	23.98		0.76		30	Pass
				106/54		0.00	0.00	15.68	16.29	19.01	23.98		0.76		30	Pass
EHT40	MCS0	2	102	Full	5510	0.00	0.00	18.56	18.82	21.70	23.98		0.76		30	Pass
			110	Full	5550	0.00	0.00	19.81	20.05	22.94	23.98		0.76		30	Pass
			134	Full	5670	0.00	0.00	19.75	20.06	22.92	23.98		0.76		30	Pass
EHT80	MCS0	2	106	Full	5530	0.00	0.00	18.69	18.76	21.74	23.98		0.76		30	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
11a	6Mbps	2	149	Full	5745	0.03	0.03	19.27	19.66	22.48	30.00		0.81			Pass
11a	6Mbps	2	157	Full	5785	0.03	0.03	19.26	19.58	22.44	30.00		0.81			Pass
11a	6Mbps	2	165	Full	5825	0.03	0.03	19.17	19.61	22.41	30.00		0.81			Pass
HT20	MCS0	2	149	Full	5745	0.00	0.00	19.35	19.66	22.52	30.00		0.81			Pass
HT20	MCS0	2	157	Full	5785	0.00	0.00	19.15	19.55	22.36	30.00		0.81			Pass
HT20	MCS0	2	165	Full	5825	0.00	0.00	19.17	19.65	22.43	30.00		0.81			Pass
HT40	MCS0	2	151	Full	5755	0.00	0.00	19.84	20.21	23.04	30.00		0.81			Pass
HT40	MCS0	2	159	Full	5795	0.00	0.00	19.78	20.20	23.01	30.00		0.81			Pass
VHT20	MCS0	2	149	Full	5745	0.00	0.00	19.30	19.61	22.47	30.00		0.81			Pass
VHT20	MCS0	2	157	Full	5785	0.00	0.00	19.11	19.50	22.32	30.00		0.81			Pass
VHT20	MCS0	2	165	Full	5825	0.00	0.00	19.14	19.63	22.40	30.00		0.81			Pass
VHT40	MCS0	2	151	Full	5755	0.00	0.00	19.81	20.17	23.00	30.00		0.81			Pass
VHT40	MCS0	2	159	Full	5795	0.00	0.00	19.74	20.15	22.96	30.00		0.81			Pass
VHT80	MCS0	2	155	Full	5775	0.00	0.00	19.63	19.89	22.77	30.00		0.81			Pass
HE20	MCS0	2	149	Full	5745	0.00	0.00	19.45	19.79	22.63	30.00		0.81			Pass
				26/0		0.00	0.00	10.24	9.88	13.07	30.00		0.81			Pass
				52/37		0.00	0.00	12.67	12.75	15.72	30.00		0.81			Pass
				106/53		0.00	0.00	15.67	15.93	18.81	30.00		0.81			Pass
HE20	MCS0	2	157	Full	5785	0.00	0.00	19.43	19.84	22.65	30.00		0.81			Pass
HE20	MCS0	2	165	Full	5825	0.00	0.00	19.24	19.78	22.53	30.00		0.81			Pass
				26/8		0.00	0.00	10.02	9.46	12.76	30.00		0.81			Pass
				52/40		0.00	0.00	12.40	12.32	15.37	30.00		0.81			Pass
				106/54		0.00	0.00	15.42	15.63	18.54	30.00		0.81			Pass
HE40	MCS0	2	151	Full	5755	0.00	0.00	19.87	20.26	23.08	30.00		0.81			Pass
HE40	MCS0	2	159	Full	5795	0.00	0.00	19.84	20.23	23.05	30.00		0.81			Pass
HE80	MCS0	2	155	Full	5775	0.00	0.00	19.78	20.12	22.96	30.00		0.81			Pass

TEST RESULTS DATA
Average Power Table

U-NII-3																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	
						Ant 5	Ant 4	Ant 5	Ant 4	SUM	Ant 5	Ant 4	Ant 5	Ant 4		
EHT20	MCS0	2	149	Full	5745	0.00	0.00	19.67	19.87	22.78	30.00		0.81			Pass
				26/0		0.00	0.00	10.37	10.01	13.20	30.00		0.81			Pass
				52/37		0.00	0.00	12.80	12.88	15.85	30.00		0.81			Pass
				106/53		0.00	0.00	15.80	16.06	18.94	30.00		0.81			Pass
EHT20	MCS0	2	157	Full	5785	0.00	0.00	19.55	19.92	22.75	30.00		0.81			Pass
EHT20	MCS0	2	165	Full	5825	0.00	0.00	19.36	19.86	22.63	30.00		0.81			Pass
				26/8		0.00	0.00	10.15	9.59	12.89	30.00		0.81			Pass
				52/40		0.00	0.00	12.53	12.45	15.50	30.00		0.81			Pass
				106/54		0.00	0.00	15.55	15.76	18.67	30.00		0.81			Pass
EHT40	MCS0	2	151	Full	5755	0.00	0.00	19.94	20.34	23.15	30.00		0.81			Pass
EHT40	MCS0	2	159	Full	5795	0.00	0.00	19.96	20.38	23.19	30.00		0.81			Pass
EHT80	MCS0	2	155	Full	5775	0.00	0.00	19.87	20.23	23.06	30.00		0.81			Pass

TEST RESULTS DATA
Average Power Table

U-NII-1																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 5	Ant 6	Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6		
11a	6Mbps	2	36	Full	5180	0.03	0.03	19.27	18.31	21.83	24.00		0.55		Pass	
11a	6Mbps	2	44	Full	5220	0.03	0.03	19.43	18.30	21.92	24.00		0.55		Pass	
11a	6Mbps	2	48	Full	5240	0.03	0.03	19.44	18.25	21.90	24.00		0.55		Pass	
HT20	MCS0	2	36	Full	5180	0.00	0.00	19.67	18.32	22.06	24.00		0.55		Pass	
HT20	MCS0	2	44	Full	5220	0.00	0.00	20.14	18.87	22.56	24.00		0.55		Pass	
HT20	MCS0	2	48	Full	5240	0.00	0.00	20.12	18.77	22.51	24.00		0.55		Pass	
HT40	MCS0	2	38	Full	5190	0.00	0.00	18.50	17.27	20.94	24.00		0.55		Pass	
HT40	MCS0	2	46	Full	5230	0.00	0.00	19.29	18.46	21.91	24.00		0.55		Pass	
VHT20	MCS0	2	36	Full	5180	0.00	0.00	19.65	18.30	22.04	24.00		0.55		Pass	
VHT20	MCS0	2	44	Full	5220	0.00	0.00	19.97	18.85	22.46	24.00		0.55		Pass	
VHT20	MCS0	2	48	Full	5240	0.00	0.00	19.95	18.74	22.40	24.00		0.55		Pass	
VHT40	MCS0	2	38	Full	5190	0.00	0.00	18.48	17.25	20.92	24.00		0.55		Pass	
VHT40	MCS0	2	46	Full	5230	0.00	0.00	19.27	18.44	21.89	24.00		0.55		Pass	
VHT80	MCS0	2	42	Full	5210	0.00	0.00	18.54	17.66	21.13	24.00		0.55		Pass	
VHT160	MCS0	2	50	Full	5250	0.00	0.00	18.52	17.52	21.06	24.00		0.55		Pass	
HE20	MCS0	2	36	Full	5180	0.00	0.00	19.69	18.35	22.08	24.00		0.55		Pass	
				26/0		0.00	0.00	9.95	9.13	12.57	24.00		0.55		Pass	
				52/37		0.00	0.00	12.86	11.57	15.27	24.00		0.55		Pass	
				106/53		0.00	0.00	15.99	14.71	18.41	24.00		0.55		Pass	
			48	Full	5240	0.00	0.00	20.15	18.92	22.59	24.00		0.55		Pass	
				Full		0.00	0.00	20.16	18.80	22.54	24.00		0.55		Pass	
				26/8		0.00	0.00	10.02	8.79	12.46	24.00		0.55		Pass	
				52/40		0.00	0.00	12.53	11.11	14.89	24.00		0.55		Pass	
				106/54		0.00	0.00	16.05	14.58	18.39	24.00		0.55		Pass	
				Full		0.00	0.00	18.52	17.29	20.96	24.00		0.55		Pass	
HE40	MCS0	2	38	Full	5190	0.00	0.00	18.52	17.29	20.96	24.00		0.55		Pass	
			46	Full	5230	0.00	0.00	19.31	18.48	21.93	24.00		0.55		Pass	
HE80	MCS0	2	42	Full	5210	0.00	0.00	18.55	17.68	21.15	24.00		0.55		Pass	
HE160	MCS0	2	50	Full	5250	0.00	0.00	18.53	17.53	21.07	24.00		0.55		Pass	

TEST RESULTS DATA
Average Power Table

U-NII-1																
Mod.	Data Rate	NTx	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
EHT20	MCS0	2	36	Full	5180	0.00	0.00	19.71	18.37	22.10	24.00		0.55			Pass
				26/0		0.00	0.00	10.06	9.28	12.70	24.00		0.55			Pass
				52/37		0.00	0.00	12.98	11.68	15.39	24.00		0.55			Pass
				106/53		0.00	0.00	16.08	14.82	18.51	24.00		0.55			Pass
			44	Full	5220	0.00	0.00	20.21	18.94	22.63	24.00		0.55			Pass
				48		Full	5240	0.00	0.00	20.20	18.85	22.59	24.00			0.55
			26/8		0.00	0.00		10.15	8.93	12.59	24.00		0.55			Pass
			52/40		0.00	0.00		12.67	11.25	15.03	24.00		0.55			Pass
			106/54		0.00	0.00		16.20	14.71	18.53	24.00		0.55			Pass
			EHT40	MCS0	2	38	Full	5190	0.00	0.00	18.54	17.31	20.98	24.00		0.55
			46	Full	5230	0.00	0.00	19.33	18.50	21.95	24.00		0.55		Pass	
EHT80	MCS0	2	42	Full	5210	0.00	0.00	18.58	17.70	21.17	24.00		0.55		Pass	
EHT160	MCS0	2	50	Full	5250	0.00	0.00	18.55	17.55	21.09	24.00		0.55		Pass	

TEST RESULTS DATA
Average Power Table

U-NII-2A																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 6	Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6		
11a	6Mbps	2	52	Full	5260	0.03	0.03	19.21	18.16	21.73	23.98	0.57		30	Pass	
11a	6Mbps	2	60	Full	5300	0.03	0.03	19.30	18.11	21.76	23.98	0.57		30	Pass	
11a	6Mbps	2	64	Full	5320	0.03	0.03	19.21	18.06	21.69	23.98	0.57		30	Pass	
HT20	MCS0	2	52	Full	5260	0.00	0.00	20.03	18.81	22.47	23.98	0.57		30	Pass	
HT20	MCS0	2	60	Full	5300	0.00	0.00	20.06	18.64	22.42	23.98	0.57		30	Pass	
HT20	MCS0	2	64	Full	5320	0.00	0.00	19.49	18.28	21.94	23.98	0.57		30	Pass	
HT40	MCS0	2	54	Full	5270	0.00	0.00	19.30	18.93	22.13	23.98	0.57		30	Pass	
HT40	MCS0	2	62	Full	5310	0.00	0.00	18.44	16.98	20.78	23.98	0.57		30	Pass	
VHT20	MCS0	2	52	Full	5260	0.00	0.00	19.93	18.80	22.41	23.98	0.57		30	Pass	
VHT20	MCS0	2	60	Full	5300	0.00	0.00	19.95	18.62	22.35	23.98	0.57		30	Pass	
VHT20	MCS0	2	64	Full	5320	0.00	0.00	19.47	18.26	21.92	23.98	0.57		30	Pass	
VHT40	MCS0	2	54	Full	5270	0.00	0.00	19.28	18.91	22.11	23.98	0.57		30	Pass	
VHT40	MCS0	2	62	Full	5310	0.00	0.00	18.42	16.96	20.76	23.98	0.57		30	Pass	
VHT80	MCS0	2	58	Full	5290	0.00	0.00	17.62	17.53	20.59	23.98	0.57		30	Pass	
HE20	MCS0	2	52	Full	5260	0.00	0.00	20.05	18.84	22.50	23.98	0.57		30	Pass	
				26/0		0.00	0.00	10.26	8.71	12.56	23.98	0.57		30	Pass	
				52/37		0.00	0.00	13.51	11.72	15.72	23.98	0.57		30	Pass	
				106/53		0.00	0.00	16.03	14.47	18.33	23.98	0.57		30	Pass	
			64	Full	5320	0.00	0.00	20.12	18.70	22.48	23.98	0.57		30	Pass	
				26/8		0.00	0.00	19.51	18.30	21.96	23.98	0.57		30	Pass	
				52/40		0.00	0.00	10.22	9.15	12.73	23.98	0.57		30	Pass	
				106/54		0.00	0.00	13.11	11.83	15.53	23.98	0.57		30	Pass	
HE40	MCS0	2	54	Full	5270	0.00	0.00	16.07	14.71	18.45	23.98	0.57		30	Pass	
			62	Full	5310	0.00	0.00	19.32	18.95	22.15	23.98	0.57		30	Pass	
HE80	MCS0	2	58	Full	5290	0.00	0.00	17.64	17.55	20.61	23.98	0.57		30	Pass	

TEST RESULTS DATA
Average Power Table

U-NII-2A																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
EHT20	MCS0	2	52	Full	5260	0.00	0.00	20.13	18.88	22.56	23.98		0.57		30	Pass
				26/0		0.00	0.00	10.40	8.84	12.70	23.98		0.57		30	Pass
				52/37		0.00	0.00	13.64	11.86	15.85	23.98		0.57		30	Pass
				106/53		0.00	0.00	16.19	14.58	18.47	23.98		0.57		30	Pass
			60	Full	5300	0.00	0.00	20.18	18.73	22.53	23.98		0.57		30	Pass
				Full		0.00	0.00	19.53	18.32	21.98	23.98		0.57		30	Pass
			64	26/8	5320	0.00	0.00	10.39	9.29	12.89	23.98		0.57		30	Pass
				52/40		0.00	0.00	13.24	11.94	15.65	23.98		0.57		30	Pass
				106/54		0.00	0.00	16.20	14.82	18.57	23.98		0.57		30	Pass
				Full		0.00	0.00	19.34	18.97	22.17	23.98		0.57		30	Pass
EHT40	MCS0	2	54	Full	5270	0.00	0.00	19.34	18.97	22.17	23.98		0.57		30	Pass
62	Full		5310	0.00	0.00	18.48	17.01	20.82	23.98		0.57		30	Pass		
EHT80	MCS0	2	58	Full	5290	0.00	0.00	17.66	17.57	20.63	23.98		0.57		30	Pass

TEST RESULTS DATA
Average Power Table

U-NII-2C																
Mod.	Data Rate	NTx	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 5	Ant 6	Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6		
11a	6Mbps	2	100	Full	5500	0.03	0.03	18.88	18.83	21.87	23.98		0.76		30	Pass
11a	6Mbps	2	116	Full	5580	0.03	0.03	18.93	18.67	21.82	23.98		0.76		30	Pass
11a	6Mbps	2	140	Full	5700	0.03	0.03	19.43	18.83	22.16	23.98		0.76		30	Pass
HT20	MCS0	2	100	Full	5500	0.00	0.00	19.58	19.31	22.46	23.98		0.76		30	Pass
HT20	MCS0	2	116	Full	5580	0.00	0.00	19.46	19.09	22.29	23.98		0.76		30	Pass
HT20	MCS0	2	140	Full	5700	0.00	0.00	19.40	18.88	22.16	23.98		0.76		30	Pass
HT40	MCS0	2	102	Full	5510	0.00	0.00	19.01	18.87	21.95	23.98		0.76		30	Pass
HT40	MCS0	2	110	Full	5550	0.00	0.00	20.14	19.85	23.01	23.98		0.76		30	Pass
HT40	MCS0	2	134	Full	5670	0.00	0.00	20.03	19.45	22.76	23.98		0.76		30	Pass
VHT20	MCS0	2	100	Full	5500	0.00	0.00	19.52	19.30	22.42	23.98		0.76		30	Pass
VHT20	MCS0	2	116	Full	5580	0.00	0.00	19.43	19.07	22.26	23.98		0.76		30	Pass
VHT20	MCS0	2	140	Full	5700	0.00	0.00	19.37	18.84	22.12	23.98		0.76		30	Pass
VHT40	MCS0	2	102	Full	5510	0.00	0.00	18.99	18.85	21.93	23.98		0.76		30	Pass
VHT40	MCS0	2	110	Full	5550	0.00	0.00	20.10	19.82	22.97	23.98		0.76		30	Pass
VHT40	MCS0	2	134	Full	5670	0.00	0.00	19.96	19.42	22.71	23.98		0.76		30	Pass
VHT80	MCS0	2	106	Full	5530	0.00	0.00	18.82	18.52	21.68	23.98		0.76		30	Pass
HE20	MCS0	2	100	Full	5500	0.00	0.00	19.64	19.33	22.50	23.98		0.76		30	Pass
				26/0		0.00	0.00	9.85	9.77	12.82	23.98		0.76		30	Pass
				52/37		0.00	0.00	12.64	12.11	15.39	23.98		0.76		30	Pass
				106/53		0.00	0.00	15.71	15.52	18.63	23.98		0.76		30	Pass
			140	Full	5700	0.00	0.00	19.49	19.14	22.33	23.98		0.76		30	Pass
				Full		0.00	0.00	19.47	18.92	22.21	23.98		0.76		30	Pass
				26/8		0.00	0.00	9.75	9.24	12.51	23.98		0.76		30	Pass
				52/40		0.00	0.00	12.73	12.31	15.54	23.98		0.76		30	Pass
				106/54		0.00	0.00	16.19	15.77	19.00	23.98		0.76		30	Pass
				Full		0.00	0.00	19.03	18.89	21.97	23.98		0.76		30	Pass
HE40	MCS0	2	102	Full	5510	0.00	0.00	19.03	18.89	21.97	23.98		0.76		30	Pass
			110	Full	5550	0.00	0.00	20.15	19.87	23.02	23.98		0.76		30	Pass
			134	Full	5670	0.00	0.00	20.05	19.47	22.78	23.98		0.76		30	Pass
HE80	MCS0	2	106	Full	5530	0.00	0.00	18.84	18.54	21.70	23.98		0.76		30	Pass

TEST RESULTS DATA
Average Power Table

U-NII-2C																
Mod.	Data Rate	NTx	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
EHT20	MCS0	2	100	Full	5500	0.00	0.00	19.68	19.38	22.54	23.98		0.76		30	Pass
				26/0		0.00	0.00	9.96	9.93	12.96	23.98		0.76		30	Pass
				52/37		0.00	0.00	12.76	12.26	15.53	23.98		0.76		30	Pass
				106/53		0.00	0.00	15.84	15.63	18.75	23.98		0.76		30	Pass
			116	Full	5580	0.00	0.00	19.54	19.18	22.37	23.98		0.76		30	Pass
			140	Full	5700	0.00	0.00	19.50	18.99	22.26	23.98		0.76		30	Pass
				26/8		0.00	0.00	9.86	9.35	12.62	23.98		0.76		30	Pass
				52/40		0.00	0.00	12.85	12.42	15.65	23.98		0.76		30	Pass
				106/54		0.00	0.00	16.32	15.91	19.13	23.98		0.76		30	Pass
			102	Full	5510	0.00	0.00	19.05	18.91	21.99	23.98		0.76		30	Pass
110	Full	5550	0.00	0.00	20.19	19.89	23.05	23.98		0.76		30	Pass			
134	Full	5670	0.00	0.00	20.08	19.56	22.84	23.98		0.76		30	Pass			
EHT80	MCS0	2	106	Full	5530	0.00	0.00	18.86	18.56	21.72	23.98		0.76		30	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3																
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 5	Ant 6	Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6		
11a	6Mbps	2	149	Full	5745	0.03	0.03	19.87	18.73	22.35	30.00		0.81			Pass
11a	6Mbps	2	157	Full	5785	0.03	0.03	19.76	18.60	22.23	30.00		0.81			Pass
11a	6Mbps	2	165	Full	5825	0.03	0.03	19.47	18.58	22.06	30.00		0.81			Pass
HT20	MCS0	2	149	Full	5745	0.00	0.00	19.71	18.75	22.27	30.00		0.81			Pass
HT20	MCS0	2	157	Full	5785	0.00	0.00	19.53	18.55	22.08	30.00		0.81			Pass
HT20	MCS0	2	165	Full	5825	0.00	0.00	19.50	18.65	22.11	30.00		0.81			Pass
HT40	MCS0	2	151	Full	5755	0.00	0.00	20.30	19.29	22.83	30.00		0.81			Pass
HT40	MCS0	2	159	Full	5795	0.00	0.00	20.25	19.10	22.72	30.00		0.81			Pass
VHT20	MCS0	2	149	Full	5745	0.00	0.00	19.67	18.72	22.23	30.00		0.81			Pass
VHT20	MCS0	2	157	Full	5785	0.00	0.00	19.50	18.52	22.05	30.00		0.81			Pass
VHT20	MCS0	2	165	Full	5825	0.00	0.00	19.42	18.62	22.05	30.00		0.81			Pass
VHT40	MCS0	2	151	Full	5755	0.00	0.00	20.26	19.26	22.80	30.00		0.81			Pass
VHT40	MCS0	2	159	Full	5795	0.00	0.00	20.21	19.06	22.68	30.00		0.81			Pass
VHT80	MCS0	2	155	Full	5775	0.00	0.00	20.28	18.97	22.68	30.00		0.81			Pass
HE20	MCS0	2	149	Full	5745	0.00	0.00	19.90	18.87	22.43	30.00		0.81			Pass
HE20	MCS0	2	149	26/0	5745	0.00	0.00	10.12	9.03	12.62	30.00		0.81			Pass
HE20	MCS0	2	149	52/37	5745	0.00	0.00	12.84	11.68	15.31	30.00		0.81			Pass
HE20	MCS0	2	149	106/53	5745	0.00	0.00	15.67	15.02	18.37	30.00		0.81			Pass
HE20	MCS0	2	157	Full	5785	0.00	0.00	19.78	18.76	22.31	30.00		0.81			Pass
HE20	MCS0	2	165	Full	5825	0.00	0.00	19.68	18.81	22.28	30.00		0.81			Pass
HE20	MCS0	2	165	26/8	5825	0.00	0.00	9.93	8.58	12.32	30.00		0.81			Pass
HE20	MCS0	2	165	52/40	5825	0.00	0.00	12.37	11.24	14.85	30.00		0.81			Pass
HE20	MCS0	2	165	106/54	5825	0.00	0.00	15.49	14.65	18.10	30.00		0.81			Pass
HE40	MCS0	2	151	Full	5755	0.00	0.00	20.33	19.31	22.86	30.00		0.81			Pass
HE40	MCS0	2	159	Full	5795	0.00	0.00	20.27	19.14	22.75	30.00		0.81			Pass
HE80	MCS0	2	155	Full	5775	0.00	0.00	20.35	19.07	22.77	30.00		0.81			Pass

TEST RESULTS DATA
Average Power Table

U-NII-3															
Mod.	Data Rate	NTX	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 5	Ant 6	Ant 5	Ant 6	SUM	Ant 5	Ant 6	Ant 5	Ant 6	
EHT20	MCS0	2	149	Full	5745	0.00	0.00	19.98	18.96	22.51	30.00	0.81		Pass	
EHT20	MCS0	2	149	26/0	5745	0.00	0.00	10.24	9.11	12.72	30.00	0.81		Pass	
EHT20	MCS0	2	149	52/37	5745	0.00	0.00	12.91	11.79	15.40	30.00	0.81		Pass	
EHT20	MCS0	2	149	106/53	5745	0.00	0.00	15.80	15.10	18.47	30.00	0.81		Pass	
EHT20	MCS0	2	157	Full	5785	0.00	0.00	19.86	18.84	22.39	30.00	0.81		Pass	
EHT20	MCS0	2	165	Full	5825	0.00	0.00	19.76	18.93	22.38	30.00	0.81		Pass	
EHT20	MCS0	2	165	26/8	5825	0.00	0.00	10.07	8.69	12.44	30.00	0.81		Pass	
EHT20	MCS0	2	165	52/40	5825	0.00	0.00	12.51	11.36	14.98	30.00	0.81		Pass	
EHT20	MCS0	2	165	106/54	5825	0.00	0.00	15.60	14.78	18.22	30.00	0.81		Pass	
EHT40	MCS0	2	151	Full	5755	0.00	0.00	20.39	19.34	22.91	30.00	0.81		Pass	
EHT40	MCS0	2	159	Full	5795	0.00	0.00	20.32	19.22	22.82	30.00	0.81		Pass	
EHT80	MCS0	2	155	Full	5775	0.00	0.00	20.39	19.15	22.82	30.00	0.81		Pass	



Ambient Condition: 24~26 °C, 45~55 %RH

Test Date: 2023/2/25~2023/3/4

Test Engineer: Zhang Xue Yi

MIMO <Ant 5+4>

Emission Bandwidth

Test Result

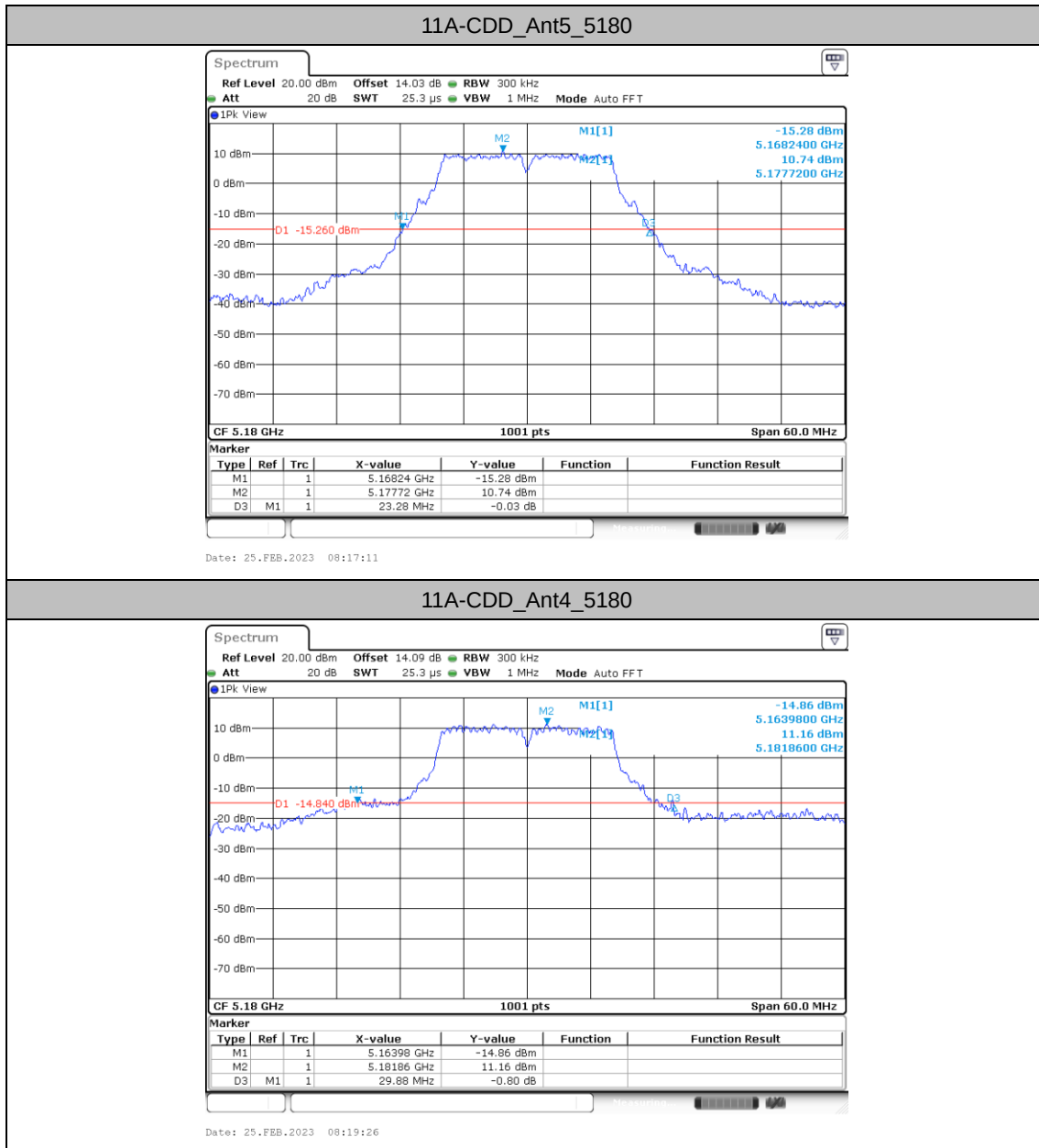
TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant5	5180	23.28	5168.24	5191.52	---	---
	Ant4	5180	29.88	5163.98	5193.86	---	---
	Ant5	5220	23.04	5208.48	5231.52	---	---
	Ant4	5220	23.76	5207.88	5231.64	---	---
	Ant5	5240	23.10	5228.42	5251.52	---	---
	Ant4	5240	23.34	5228.18	5251.52	---	---
	Ant5	5260	22.86	5248.54	5271.40	---	---
	Ant4	5260	23.64	5248.24	5271.88	---	---
	Ant5	5300	23.34	5288.18	5311.52	---	---
	Ant4	5300	23.40	5288.54	5311.94	---	---
	Ant5	5320	22.92	5308.48	5331.40	---	---
	Ant4	5320	24.00	5307.94	5331.94	---	---
	Ant5	5500	24.06	5487.82	5511.88	---	---
	Ant4	5500	23.64	5488.24	5511.88	---	---
	Ant5	5580	23.76	5568.12	5591.88	---	---
	Ant4	5580	23.58	5568.18	5591.76	---	---
	Ant5	5700	23.40	5688.12	5711.52	---	---
	Ant4	5700	23.76	5687.94	5711.70	---	---
	Ant5	5745	23.22	5733.12	5756.34	---	---
	Ant4	5745	23.22	5733.24	5756.46	---	---
	Ant5	5785	23.40	5773.18	5796.58	---	---
	Ant4	5785	23.16	5773.42	5796.58	---	---
	Ant5	5825	23.46	5813.06	5836.52	---	---
	Ant4	5825	23.64	5812.94	5836.58	---	---
11BE20MIMO	Ant5	5180	22.86	5168.54	5191.40	---	---
	Ant4	5180	52.50	5153.24	5205.74	---	---
	Ant5	5220	23.40	5208.30	5231.70	---	---
	Ant4	5220	44.10	5199.18	5243.28	---	---
	Ant5	5240	23.34	5228.24	5251.58	---	---
	Ant4	5240	25.26	5227.04	5252.30	---	---
	Ant5	5260	23.58	5248.24	5271.82	---	---
	Ant4	5260	24.06	5248.06	5272.12	---	---
	Ant5	5300	23.40	5288.06	5311.46	---	---
	Ant4	5300	23.94	5288.00	5311.94	---	---
	Ant5	5320	23.16	5308.42	5331.58	---	---



	Ant4	5320	23.70	5308.12	5331.82	---	---
	Ant5	5500	22.98	5488.66	5511.64	---	---
	Ant4	5500	27.78	5484.22	5512.00	---	---
	Ant5	5580	23.88	5568.18	5592.06	---	---
	Ant4	5580	24.96	5567.16	5592.12	---	---
	Ant5	5700	23.46	5688.24	5711.70	---	---
	Ant4	5700	23.70	5688.24	5711.94	---	---
	Ant5	5745	23.52	5733.12	5756.64	---	---
	Ant4	5745	24.30	5732.88	5757.18	---	---
	Ant5	5785	23.10	5773.30	5796.40	---	---
	Ant4	5785	24.06	5773.06	5797.12	---	---
	Ant5	5825	23.34	5813.30	5836.64	---	---
	Ant4	5825	23.40	5813.48	5836.88	---	---
11BE40MIMO	Ant5	5190	44.40	5167.44	5211.84	---	---
	Ant4	5190	43.56	5168.04	5211.60	---	---
	Ant5	5230	44.64	5206.96	5251.60	---	---
	Ant4	5230	60.60	5206.36	5266.96	---	---
	Ant5	5270	44.64	5247.44	5292.08	---	---
	Ant4	5270	106.44	5215.04	5321.48	---	---
	Ant5	5310	44.76	5287.92	5332.68	---	---
	Ant4	5310	44.28	5287.32	5331.60	---	---
	Ant5	5510	43.80	5488.16	5531.96	---	---
	Ant4	5510	43.80	5488.16	5531.96	---	---
	Ant5	5550	44.04	5528.04	5572.08	---	---
	Ant4	5550	105.60	5494.08	5599.68	---	---
	Ant5	5670	43.20	5648.16	5691.36	---	---
	Ant4	5670	116.28	5612.64	5728.92	---	---
	Ant5	5755	43.56	5733.16	5776.72	---	---
	Ant4	5755	44.28	5732.80	5777.08	---	---
	Ant5	5795	43.44	5773.76	5817.20	---	---
	Ant4	5795	57.96	5759.36	5817.32	---	---
11BE80MIMO	Ant5	5210	88.56	5164.64	5253.20	---	---
	Ant4	5210	86.40	5167.28	5253.68	---	---
	Ant5	5290	86.40	5247.76	5334.16	---	---
	Ant4	5290	86.64	5246.80	5333.44	---	---
	Ant5	5530	88.32	5485.84	5574.16	---	---
	Ant4	5530	89.04	5486.08	5575.12	---	---
	Ant5	5775	89.52	5731.80	5821.32	---	---
	Ant4	5775	89.52	5730.60	5820.12	---	---
11BE160MIMO	Ant5	5250	169.60	5163.60	5333.20	---	---
	Ant4	5250	171.52	5163.60	5335.12	---	---

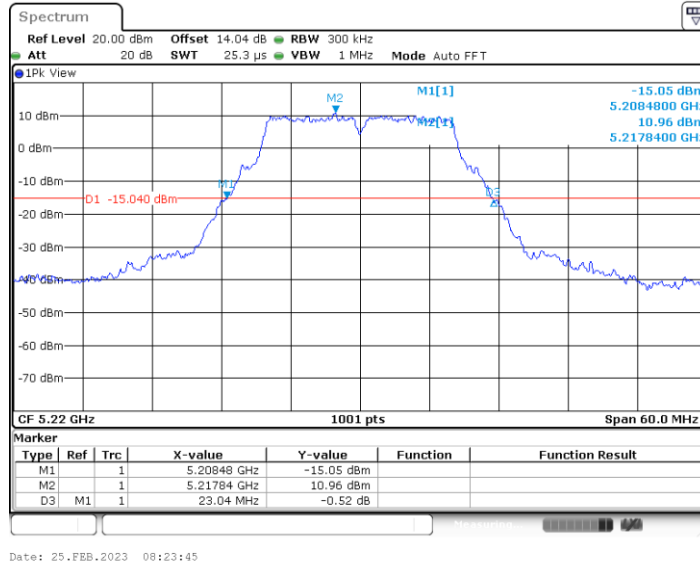


Test Graphs

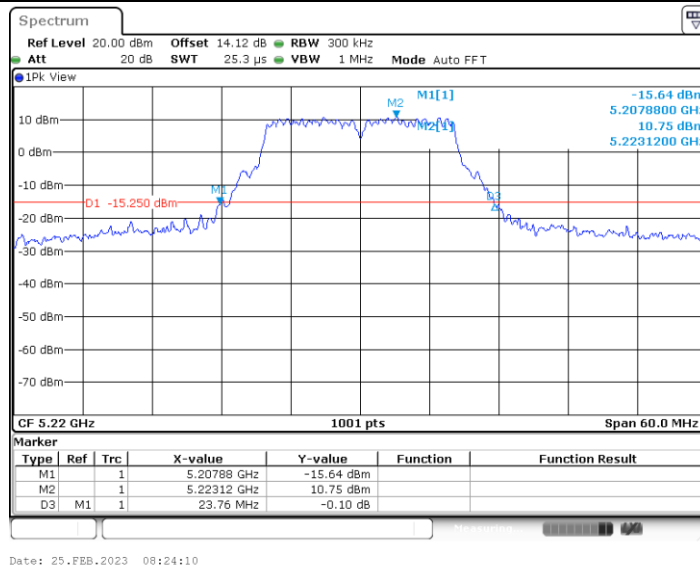




11A-CDD_Ant5_5220

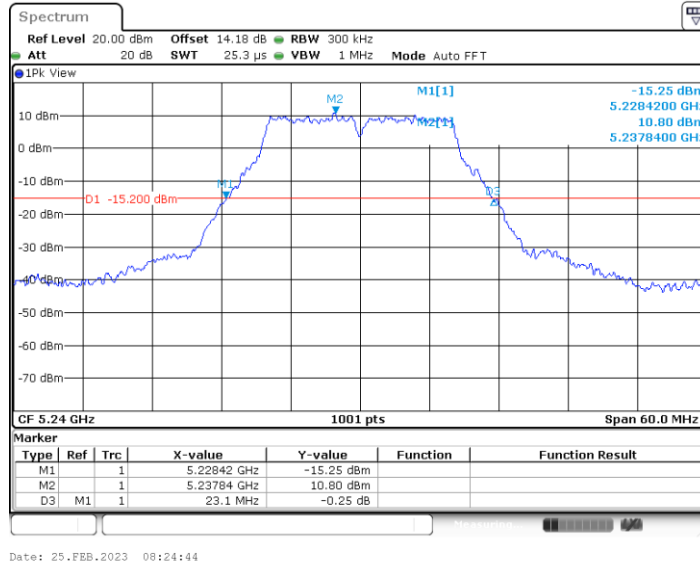


11A-CDD_Ant4_5220

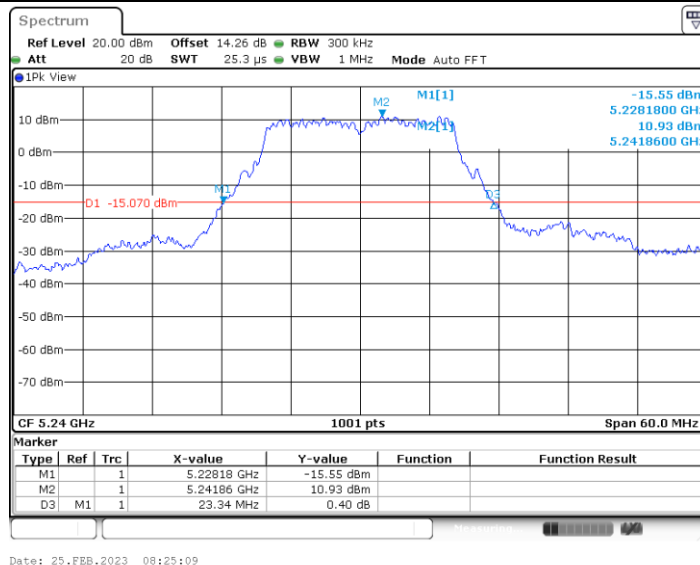




11A-CDD_Ant5_5240

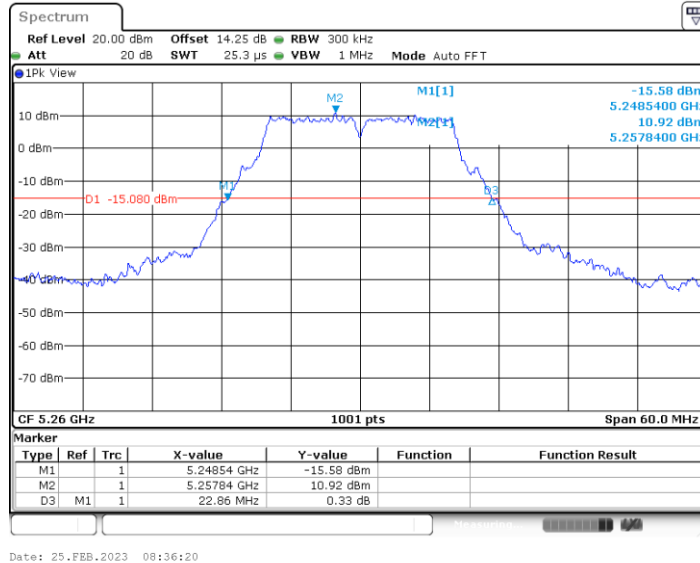


11A-CDD_Ant4_5240

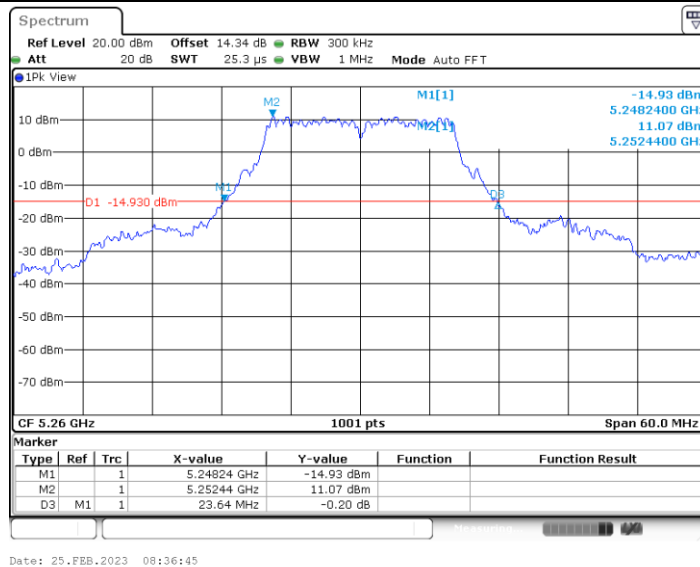




11A-CDD_Ant5_5260

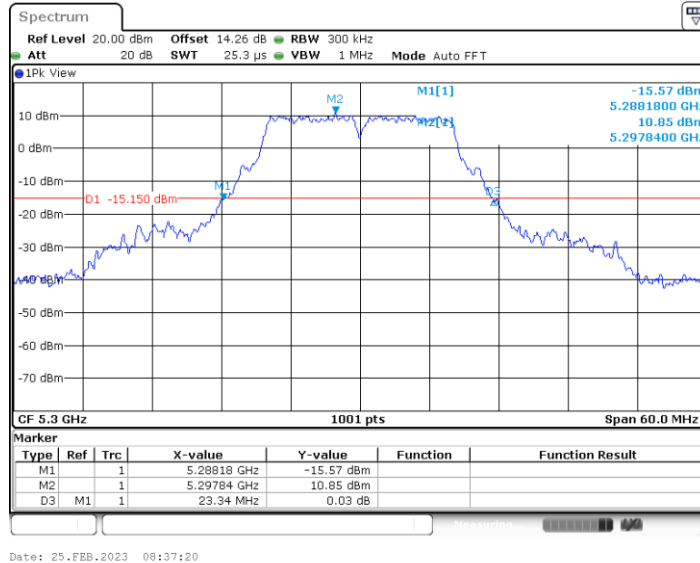


11A-CDD_Ant4_5260

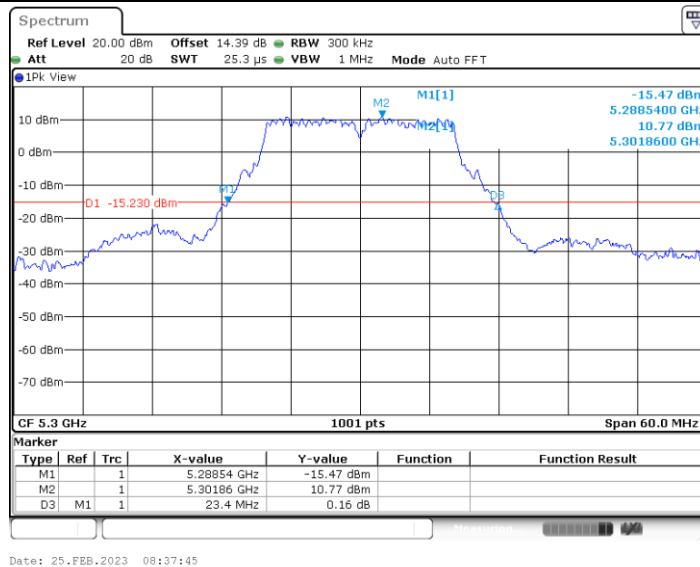




11A-CDD_Ant5_5300

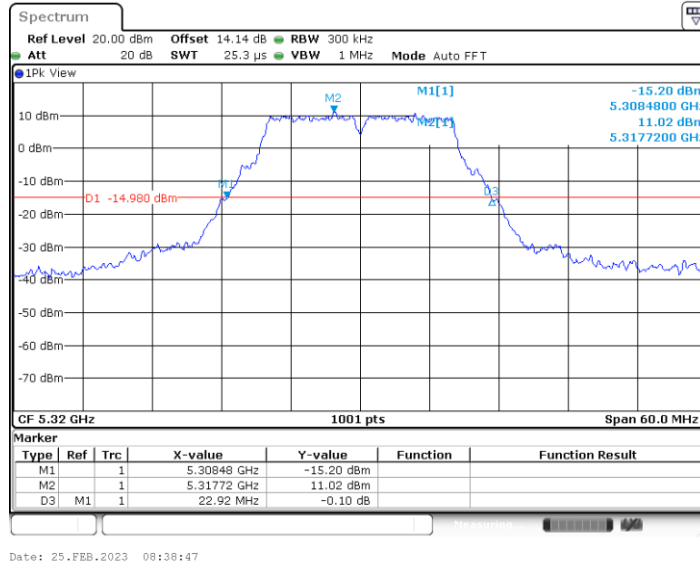


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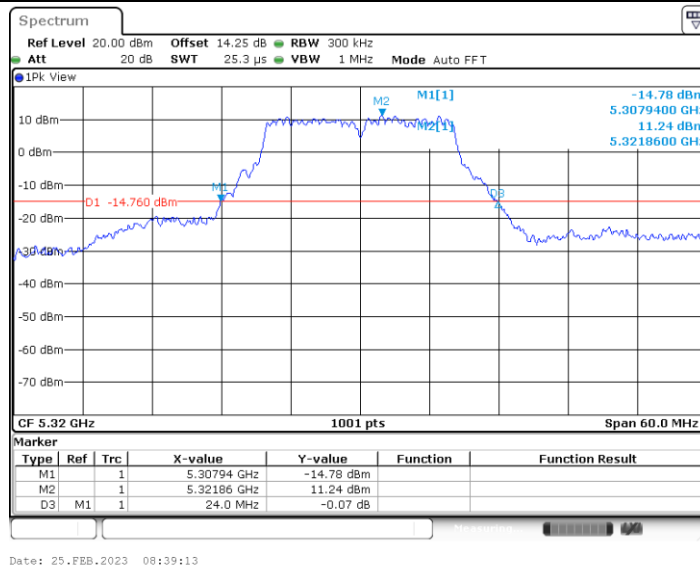




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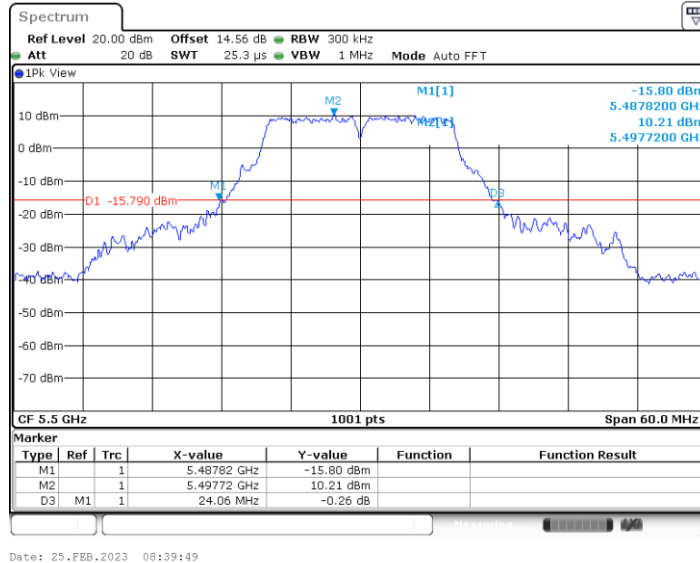


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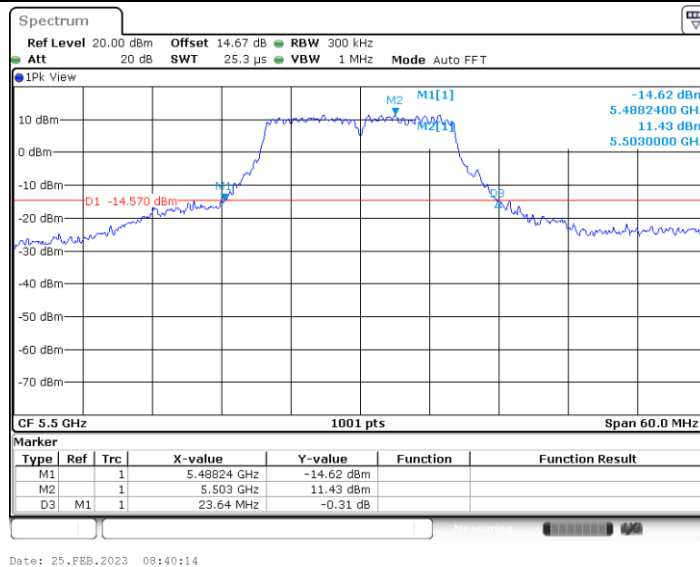




11A-CDD_Ant5_5500

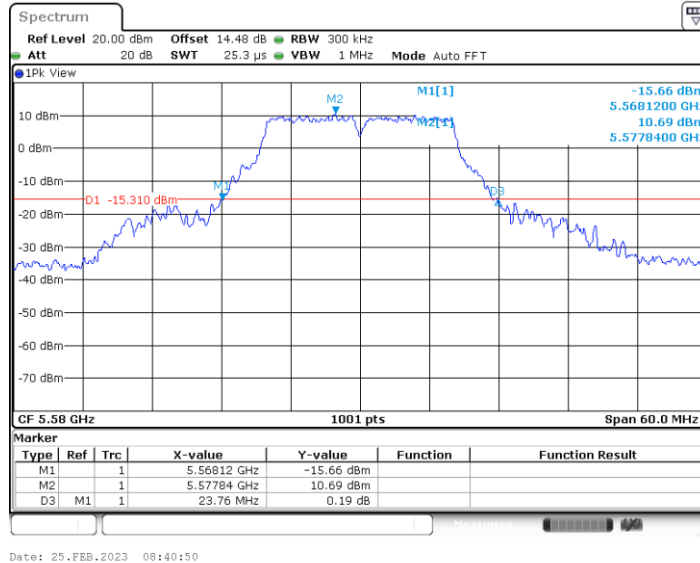


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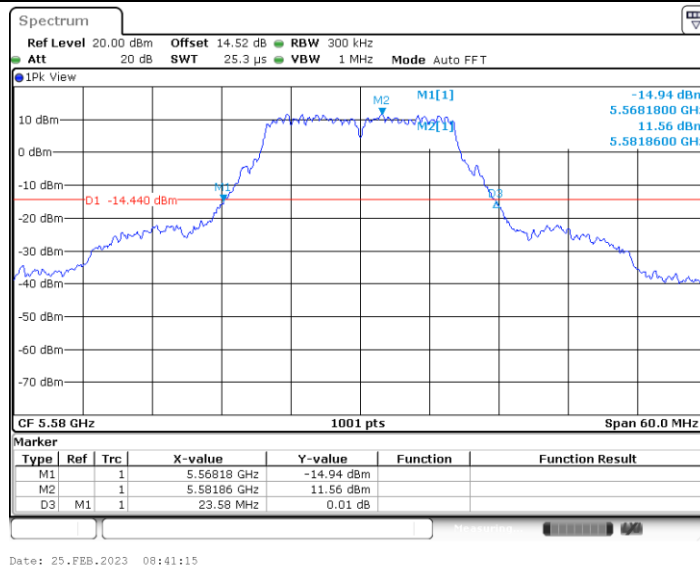




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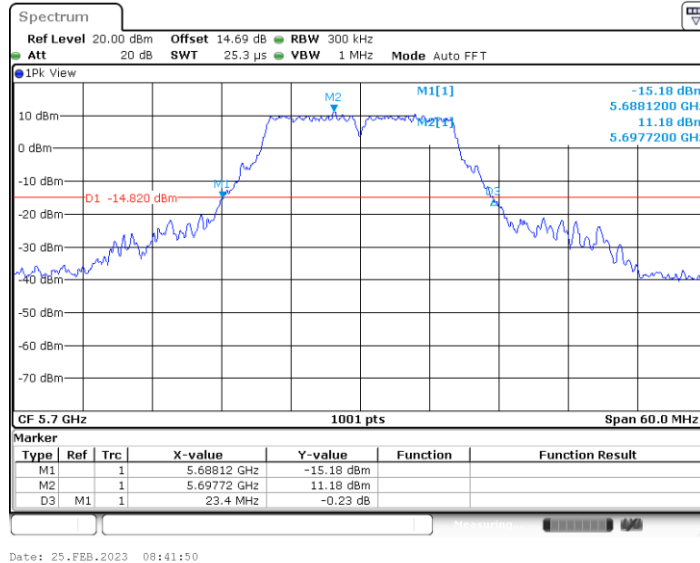


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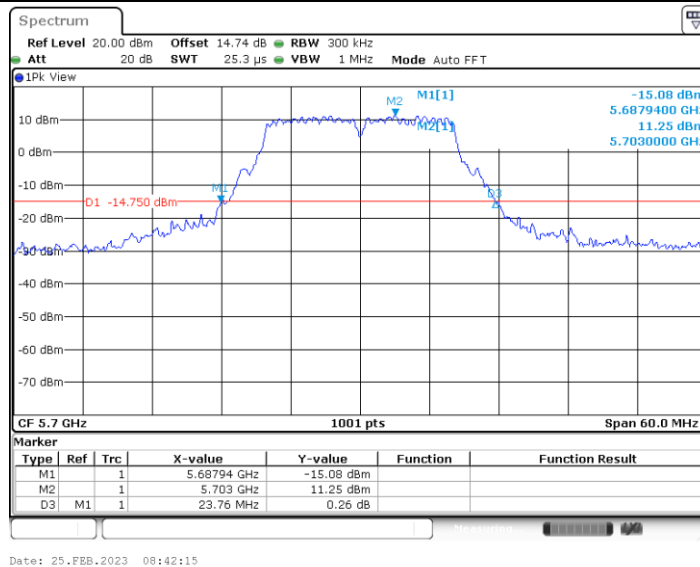




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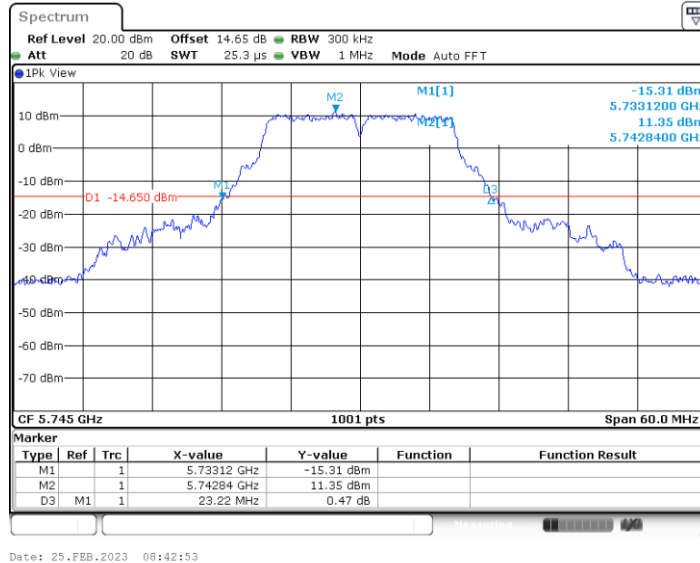


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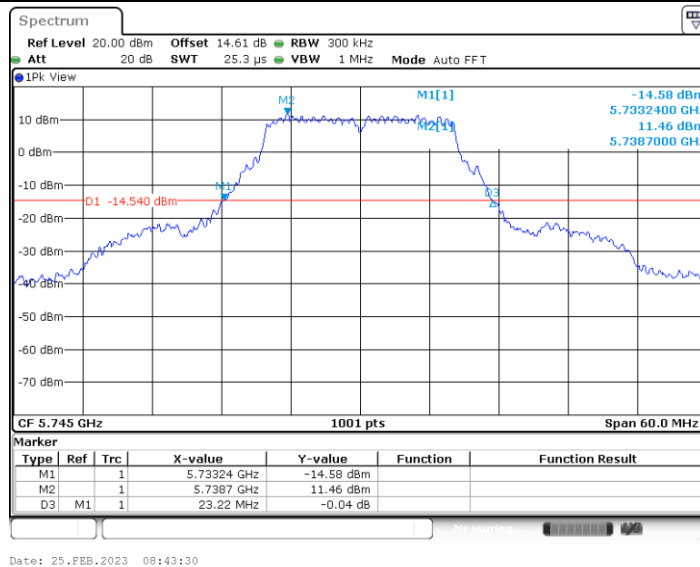




11A-CDD_Ant5_5745

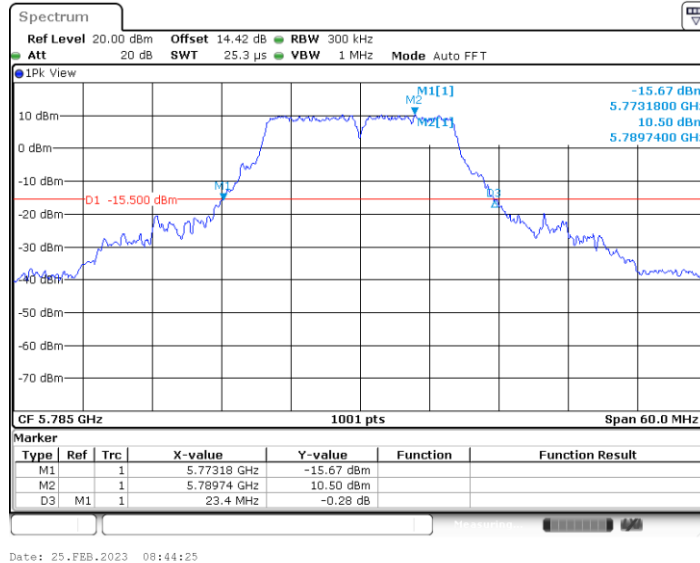


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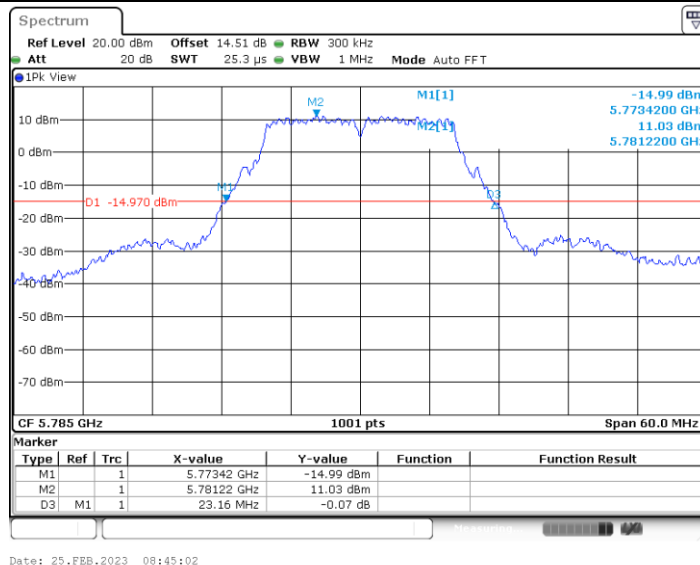




11A-CDD_Ant5_5785

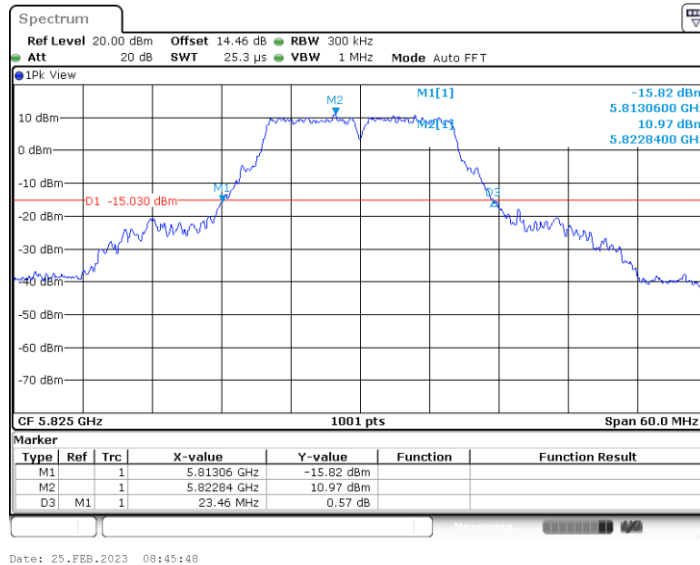


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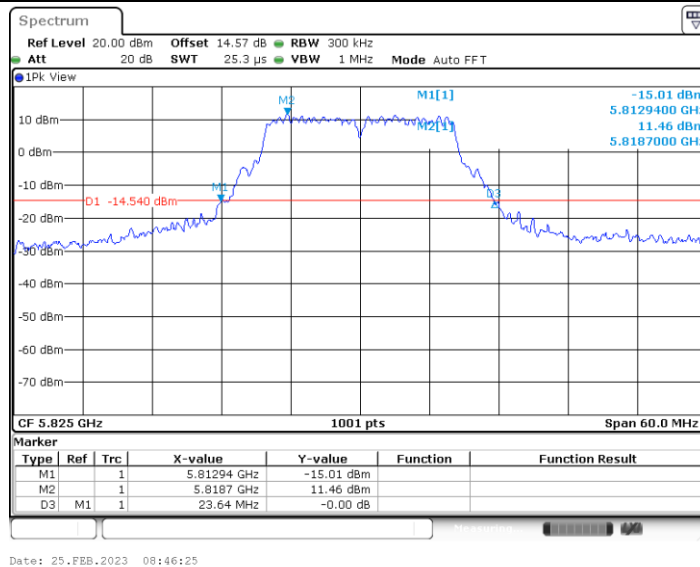




11A-CDD_Ant5_5825

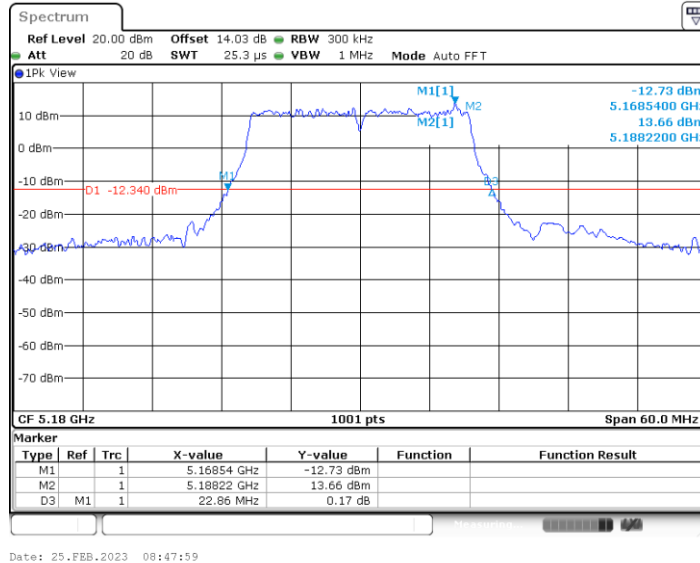


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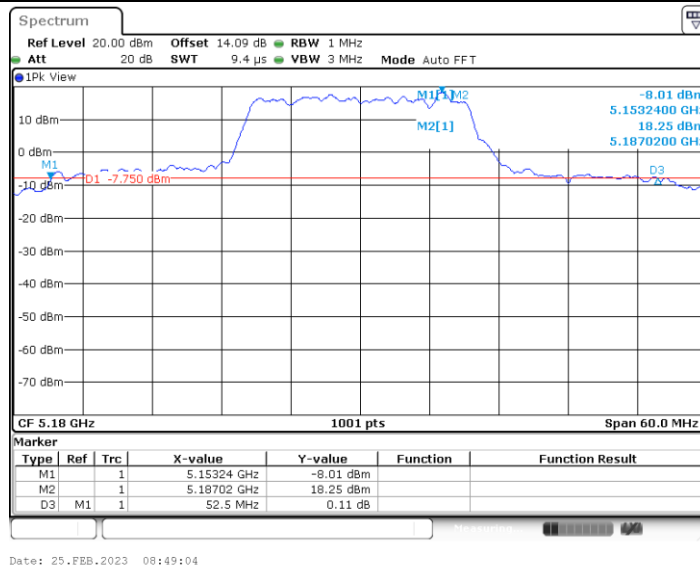




11BE20MIMO_Ant5_5180

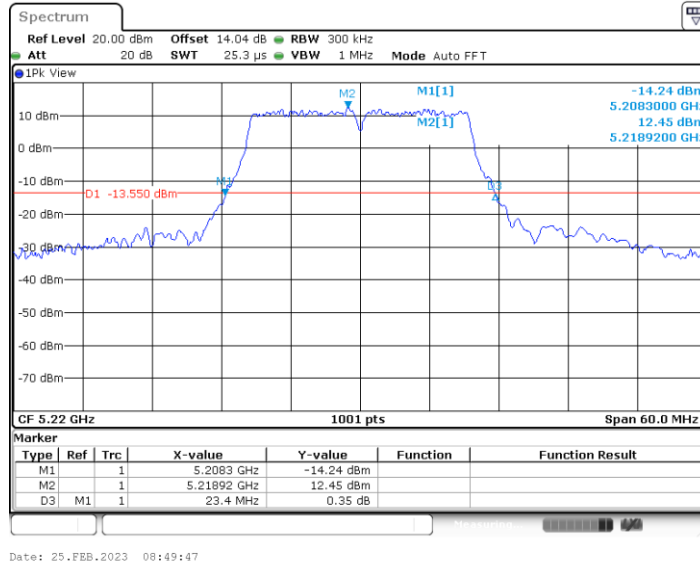


11BE20MIMO_Ant4_5180

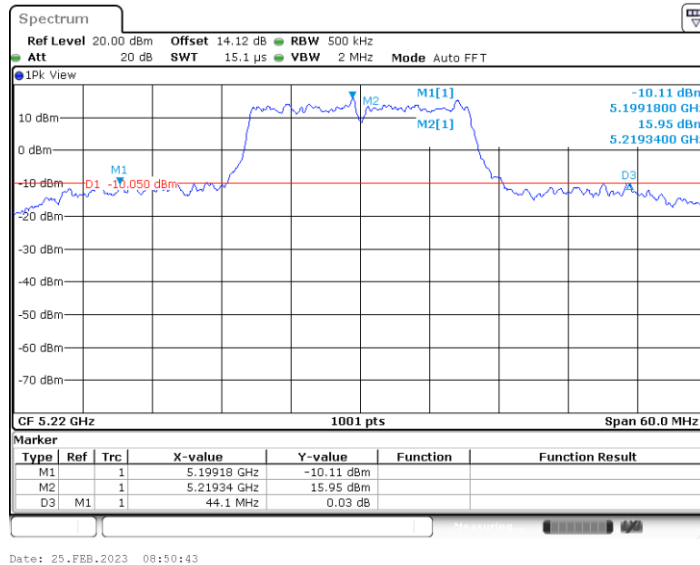




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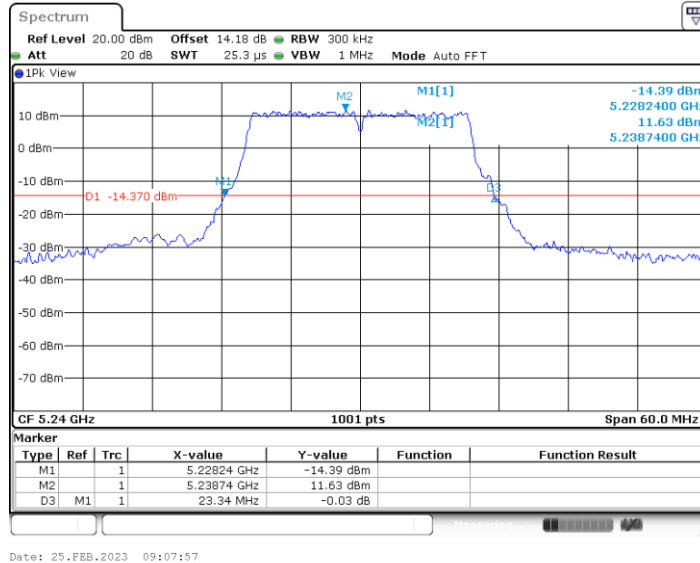


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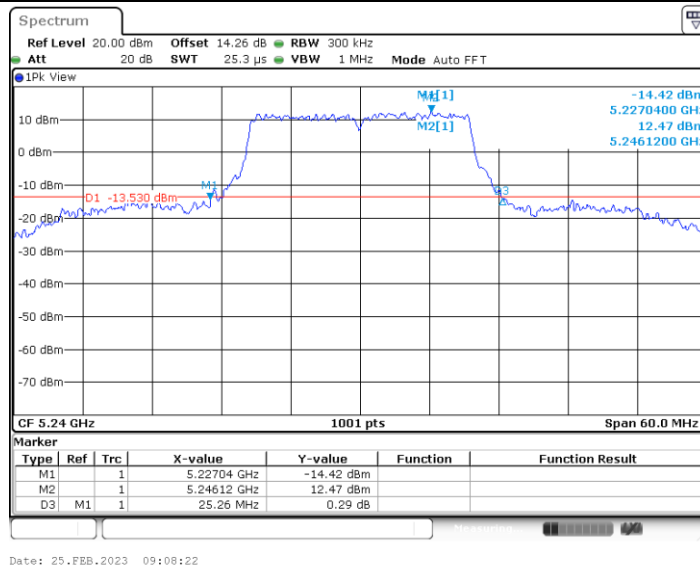




11BE20MIMO_Ant5_5240

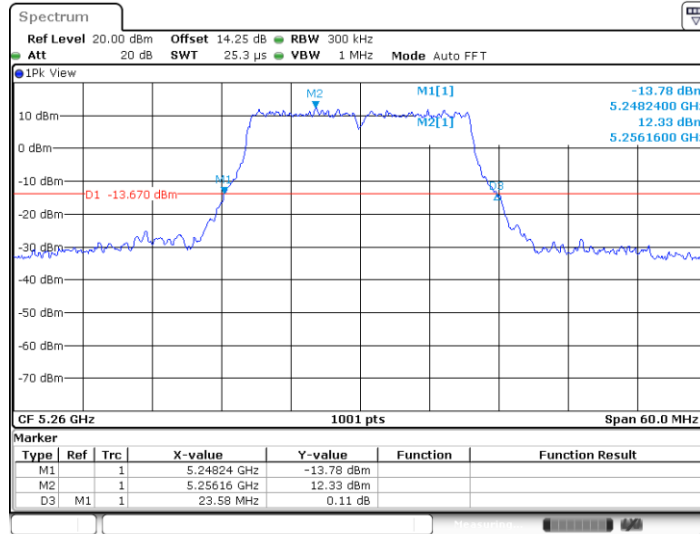


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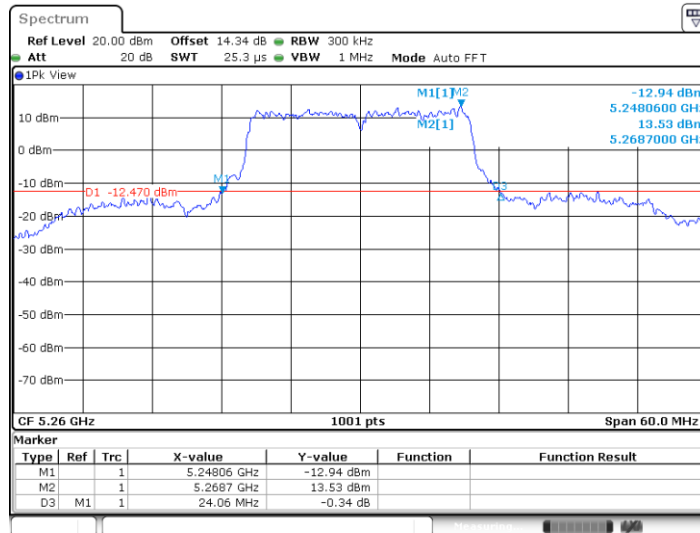




11BE20MIMO_Ant5_5260

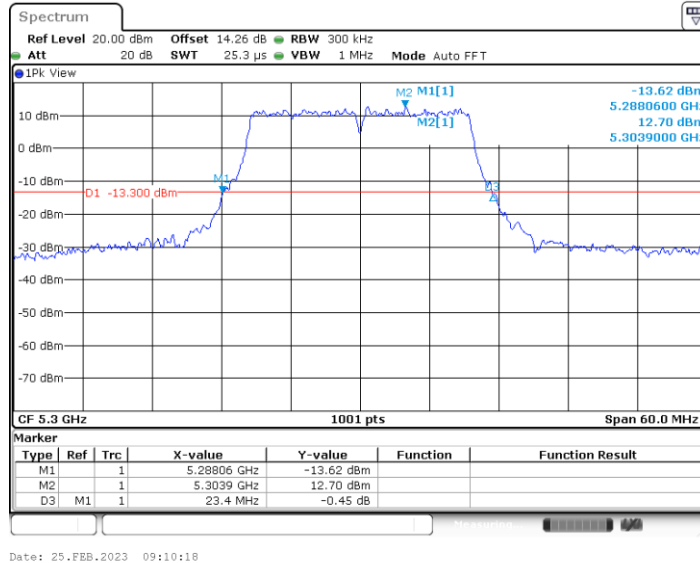


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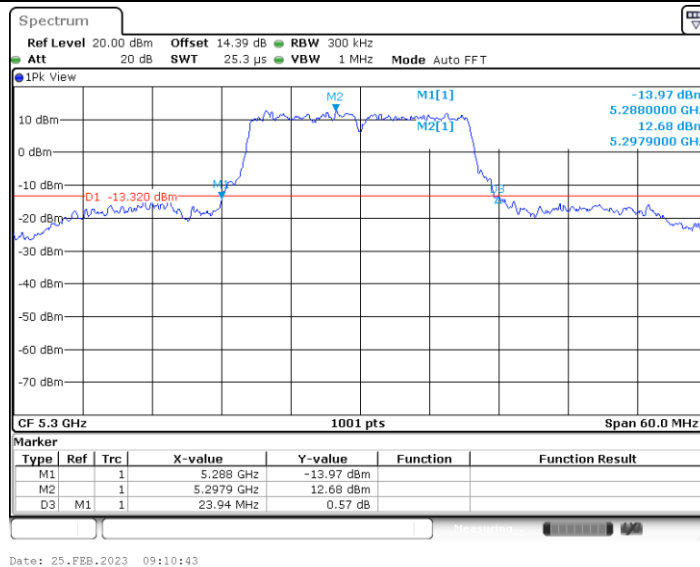




11BE20MIMO_Ant5_5300

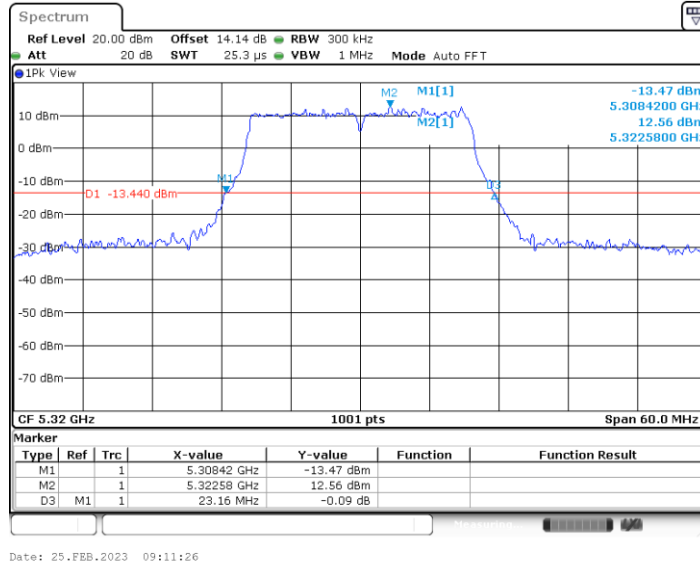


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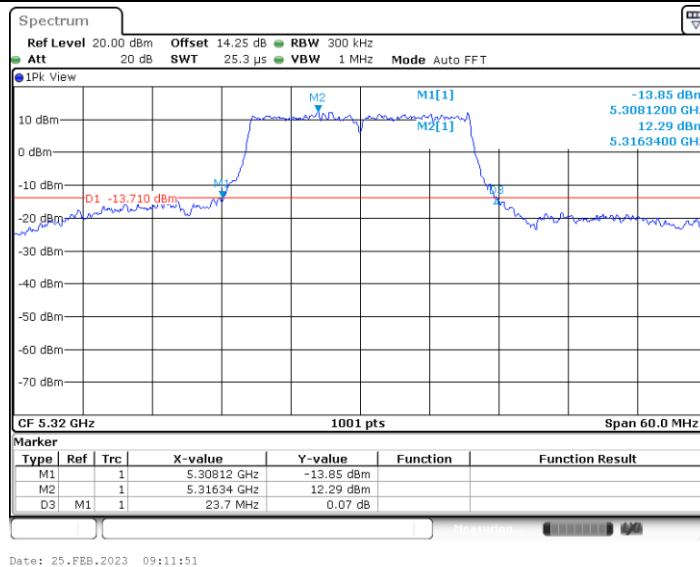




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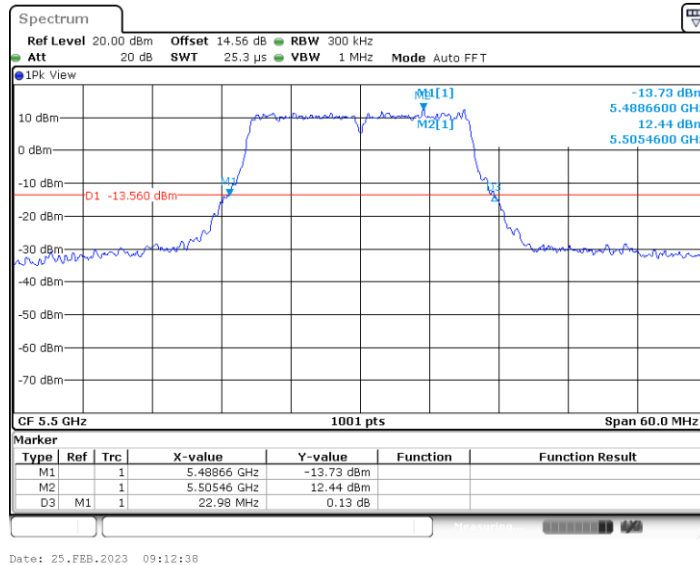


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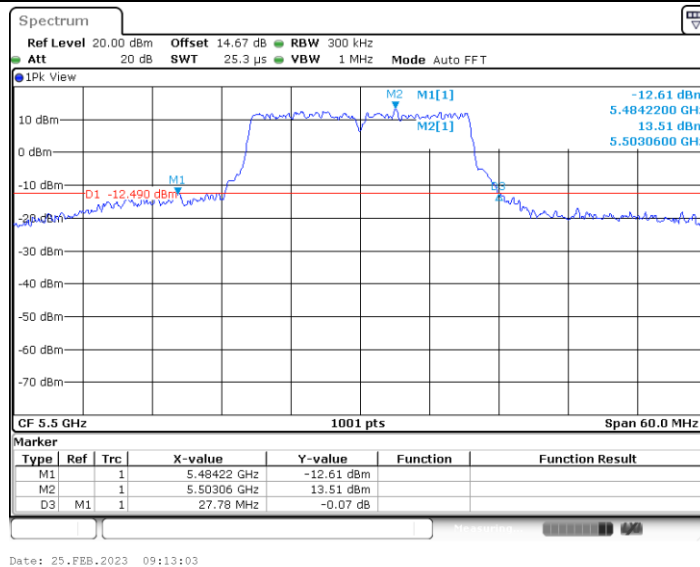




11BE20MIMO_Ant5_5500

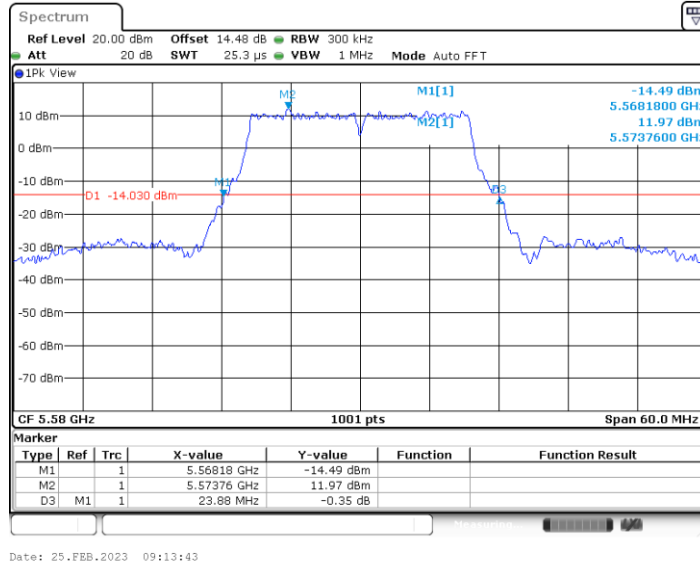


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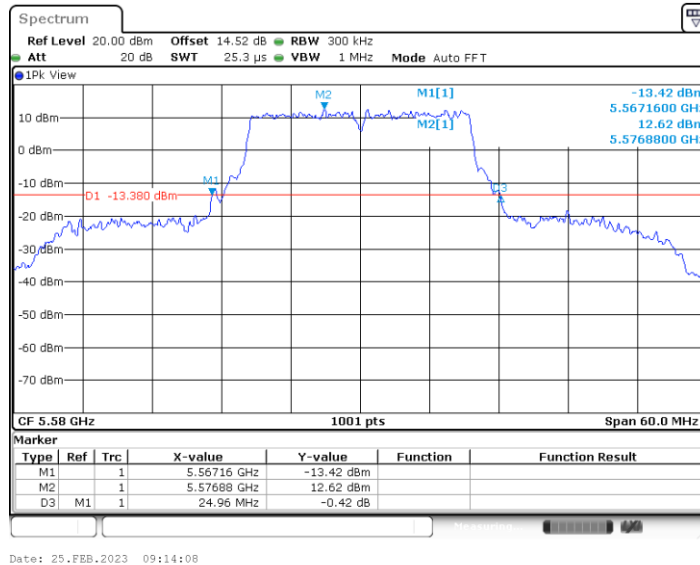




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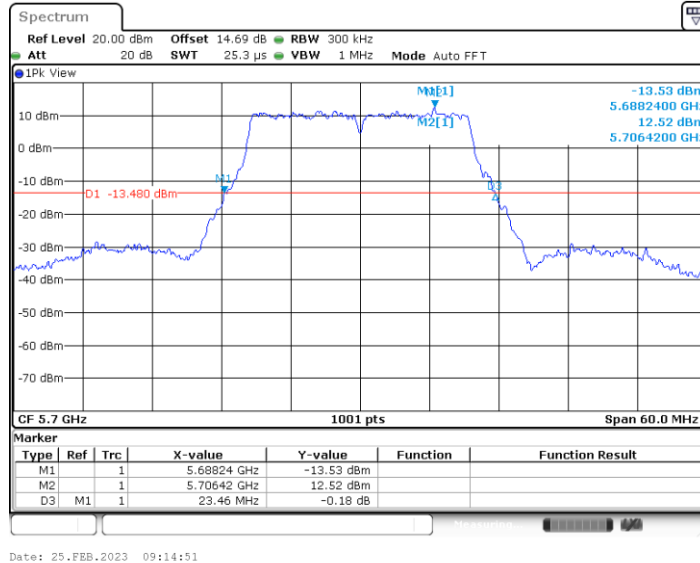


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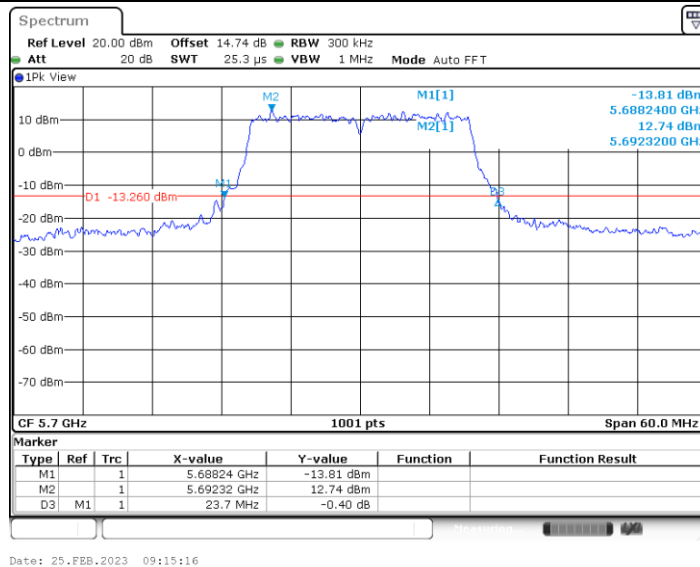




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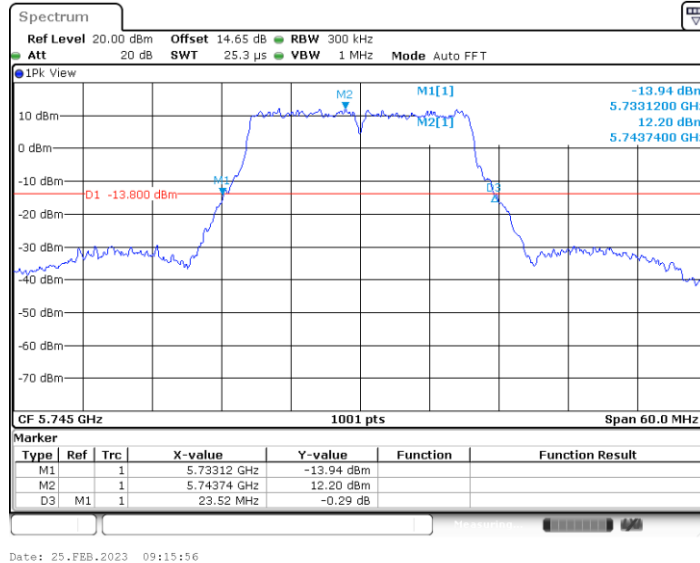


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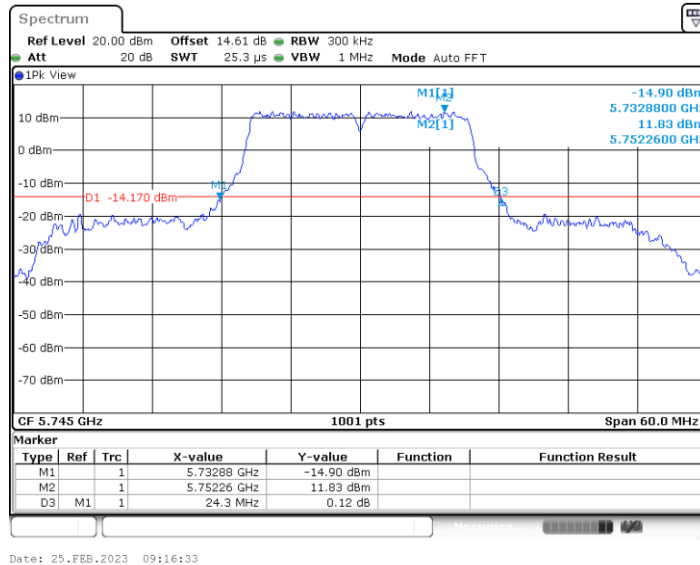




11BE20MIMO_Ant5_5745

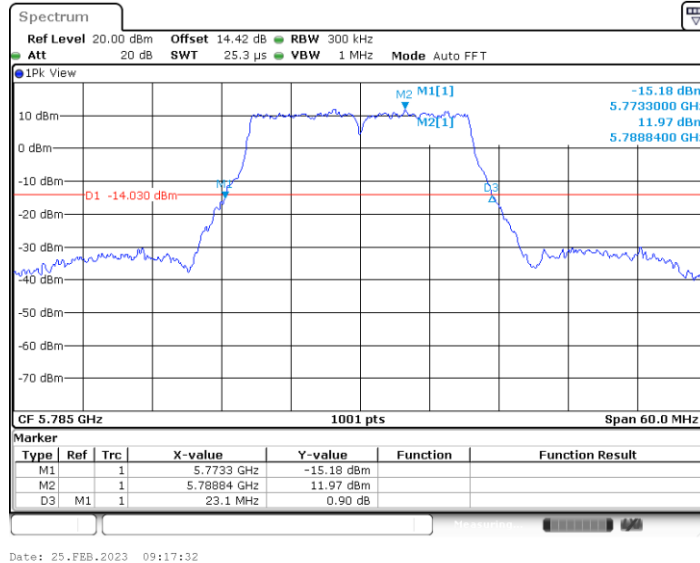


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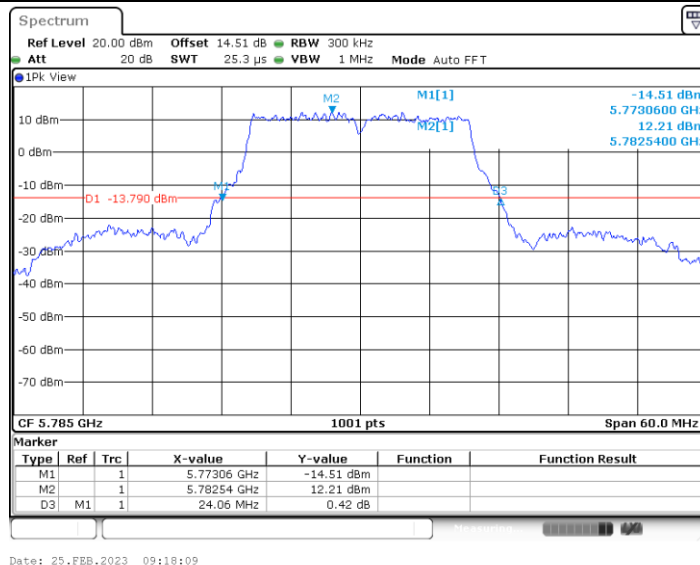




11BE20MIMO_Ant5_5785

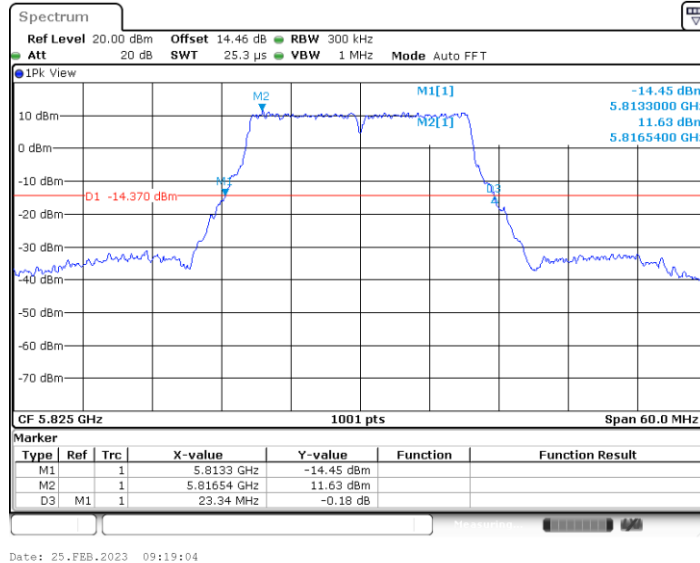


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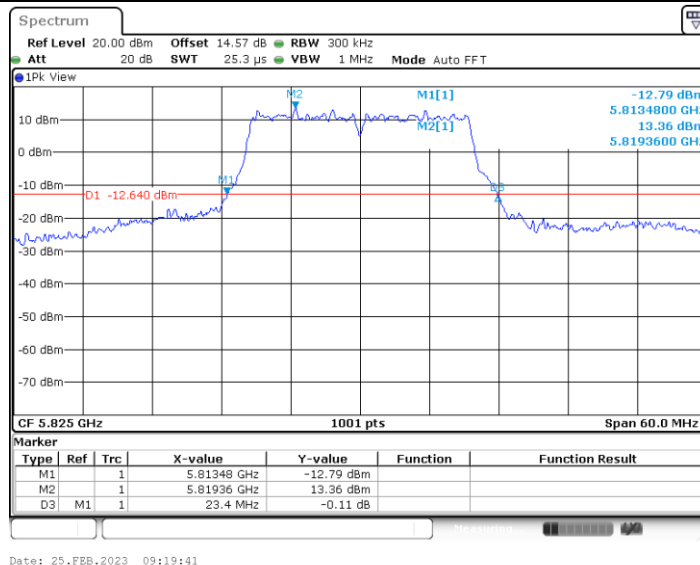




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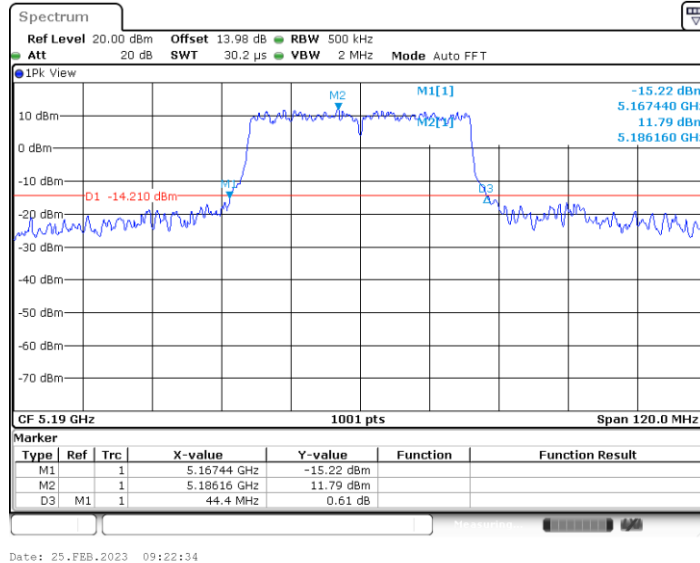


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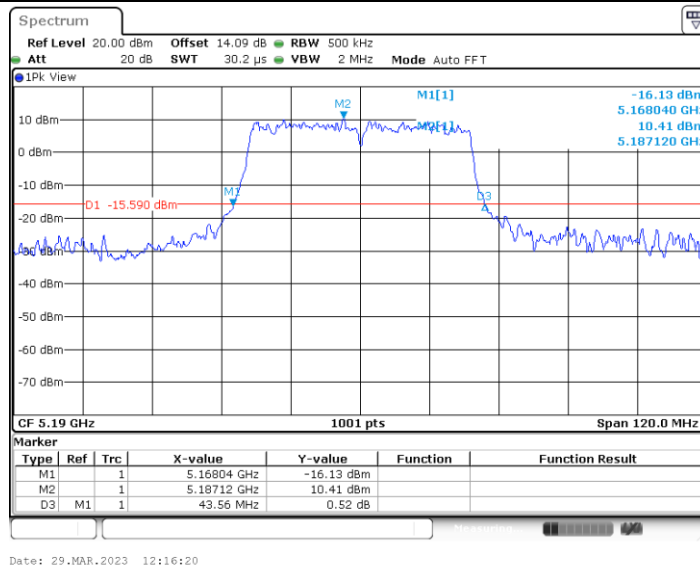




11BE40MIMO_Ant5_5190

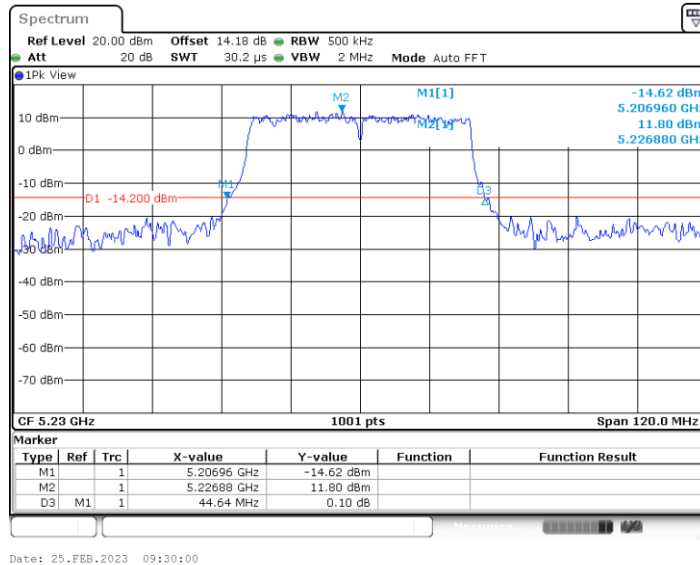


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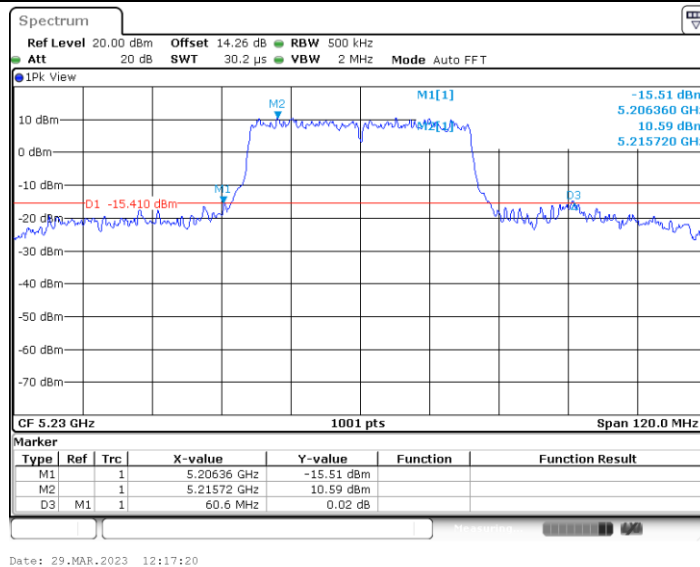




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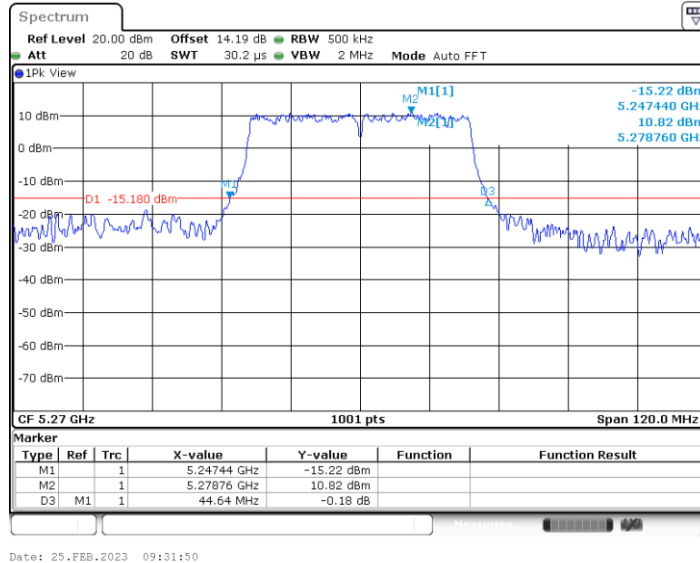


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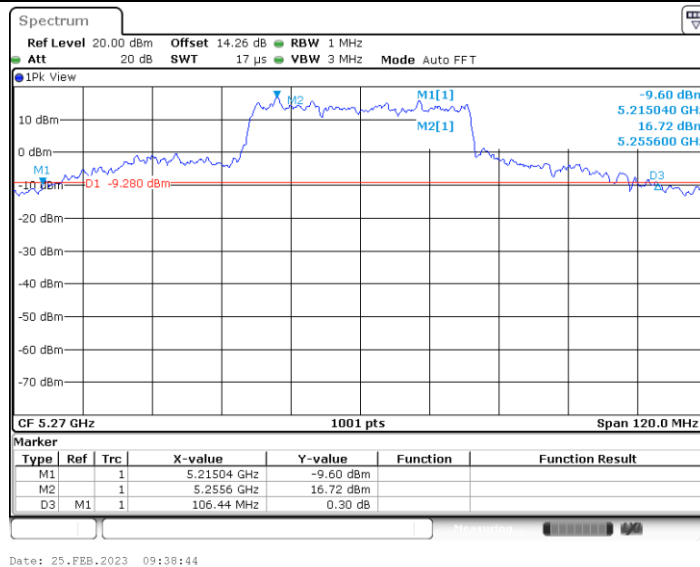




11BE40MIMO_Ant5_5270

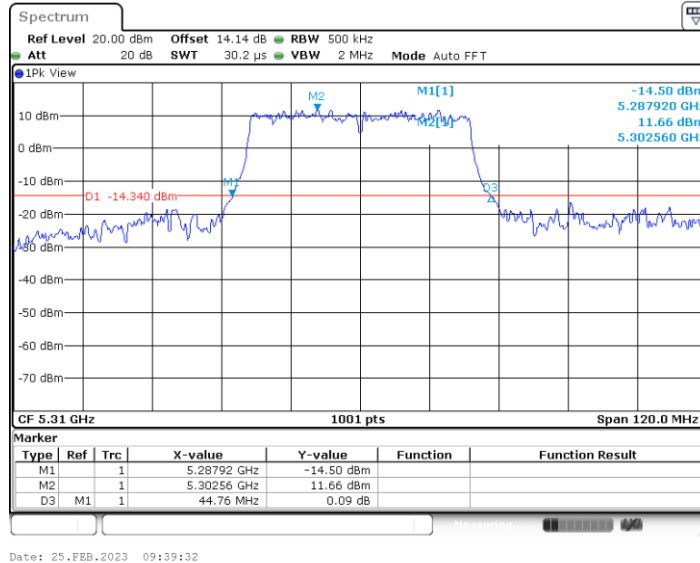


11BE40MIMO_Ant4_5270

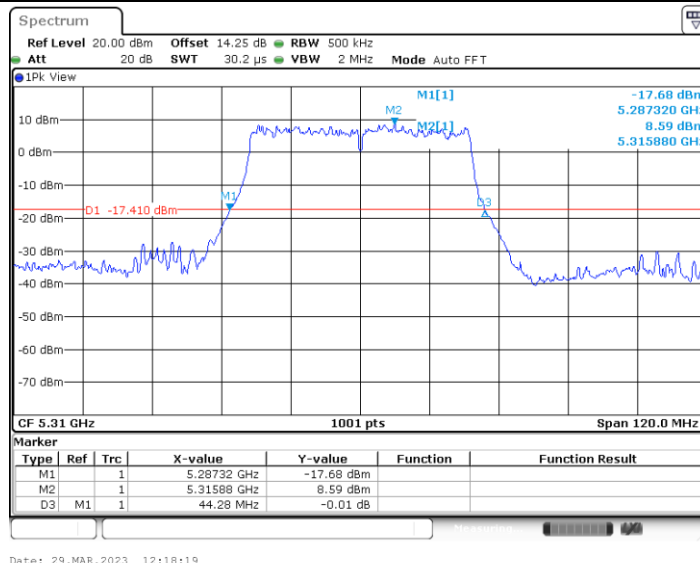




11BE40MIMO_Ant5_5310

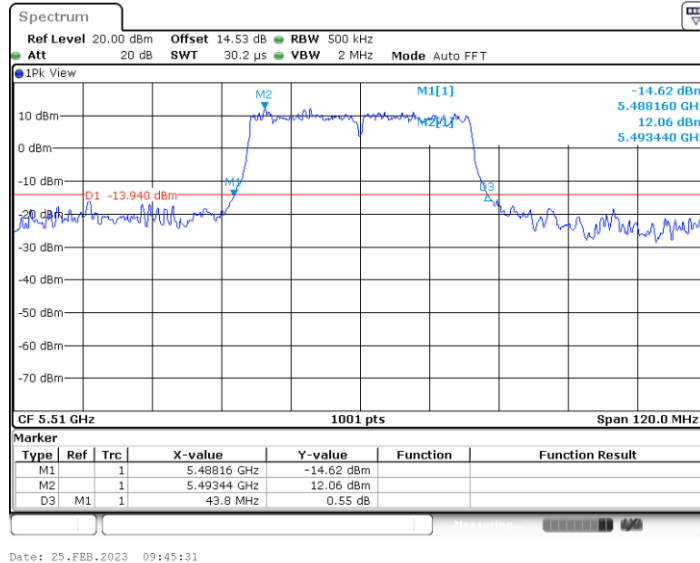


11BE40MIMO_Ant4_5310

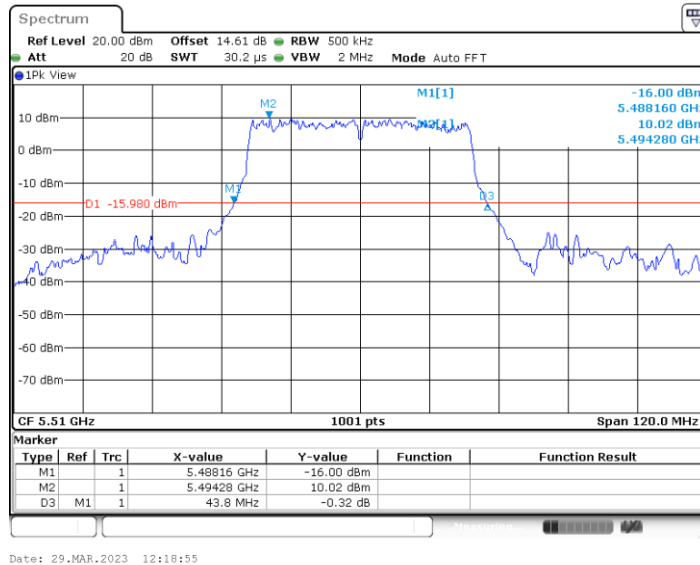




11BE40MIMO_Ant5_5510

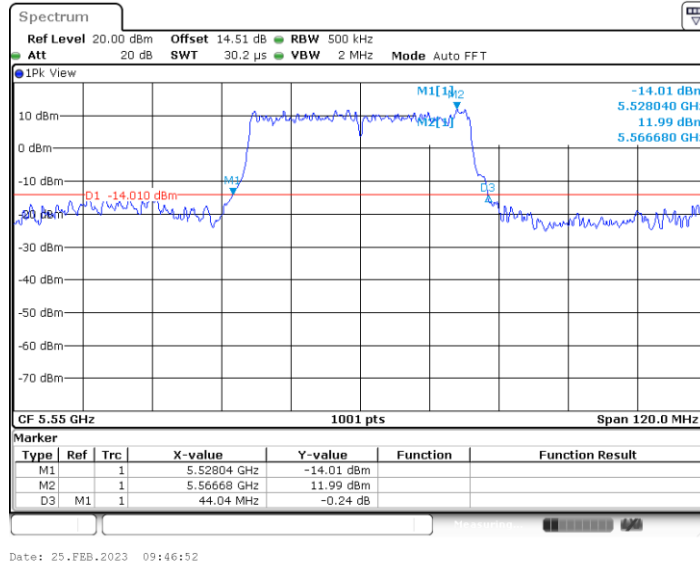


11BE40MIMO_Ant4_5510

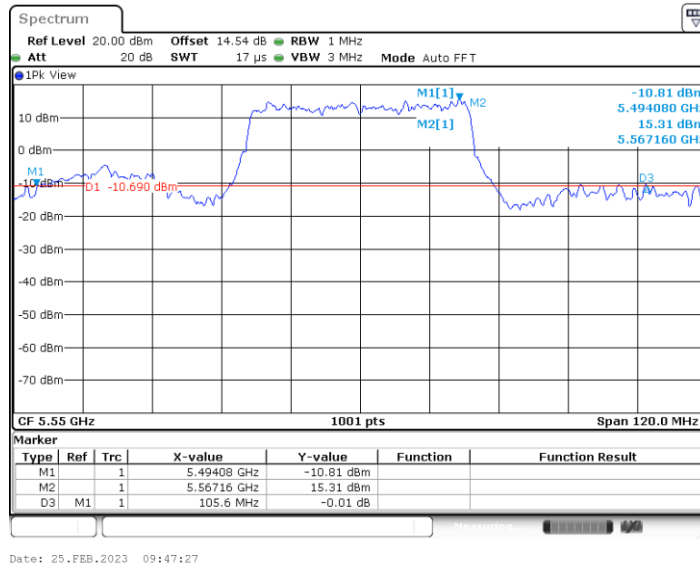




11BE40MIMO_Ant5_5550

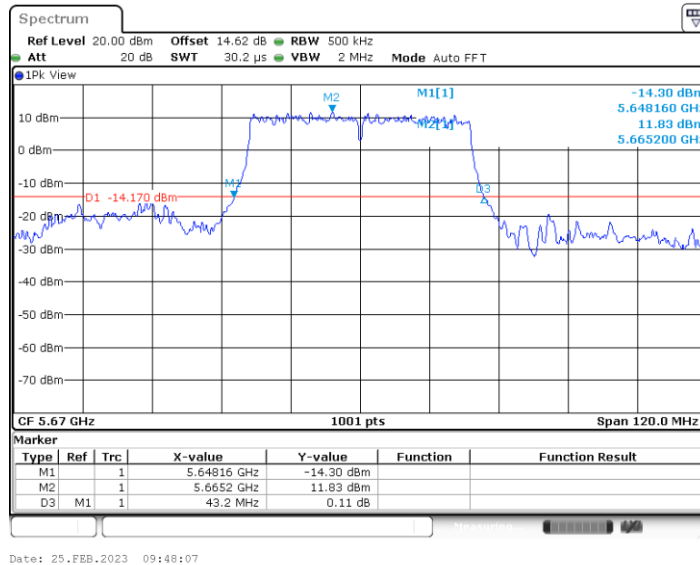


11BE40MIMO_Ant4_5550

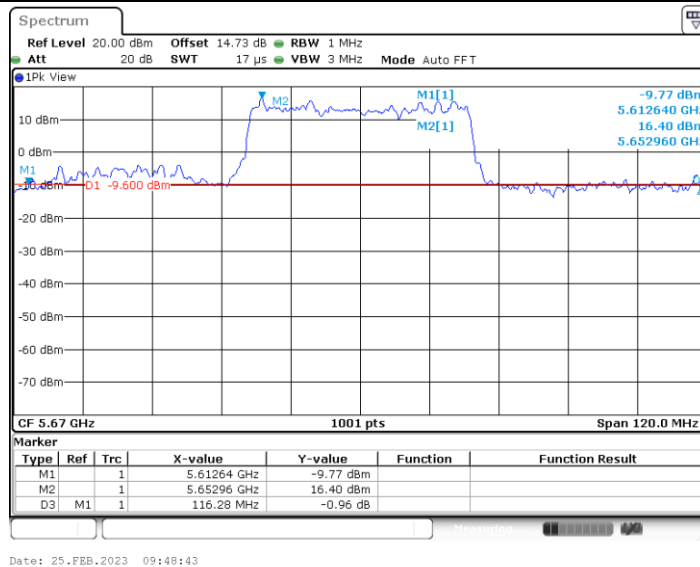




11BE40MIMO_Ant5_5670

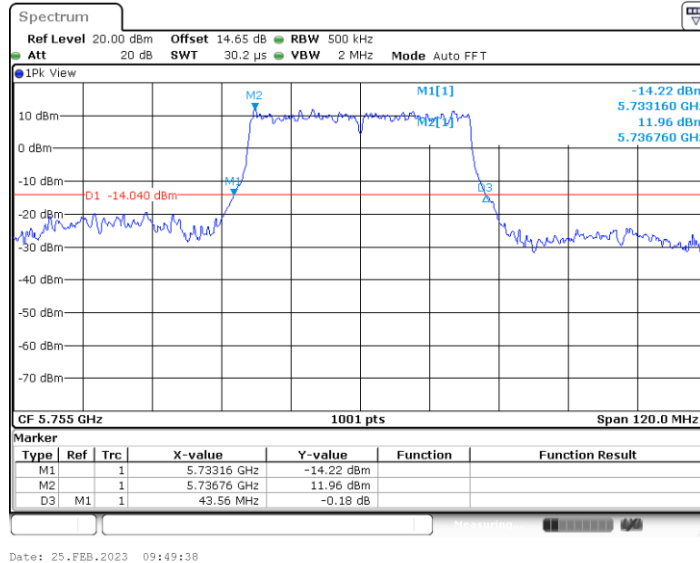


11BE40MIMO_Ant4_5670

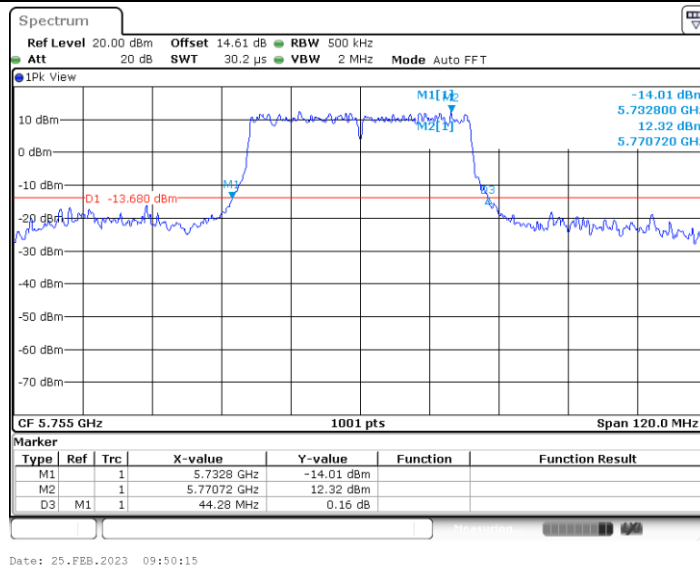




11BE40MIMO_Ant5_5755

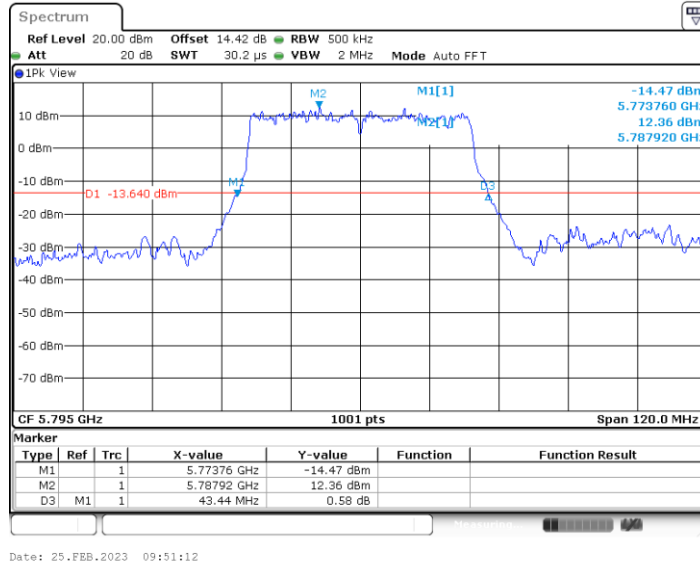


11BE40MIMO_Ant4_5755

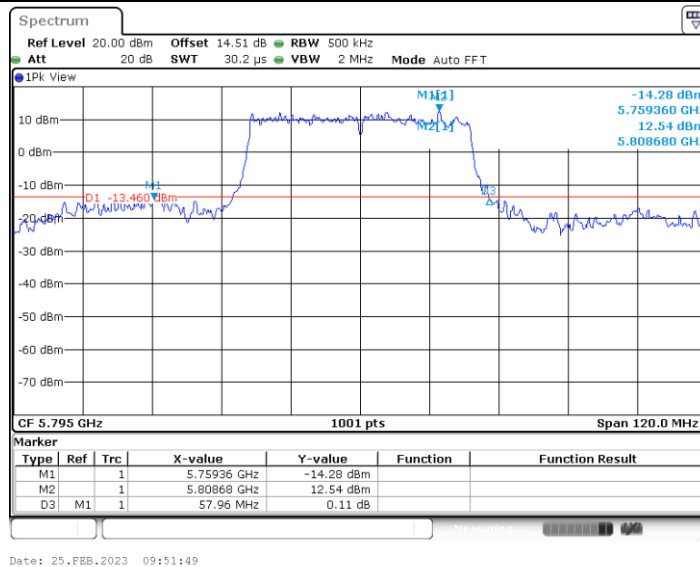




11BE40MIMO_Ant5_5795

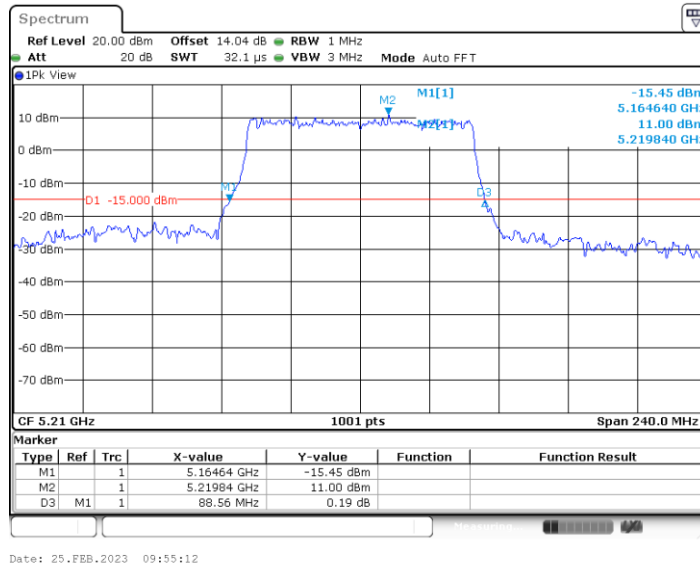


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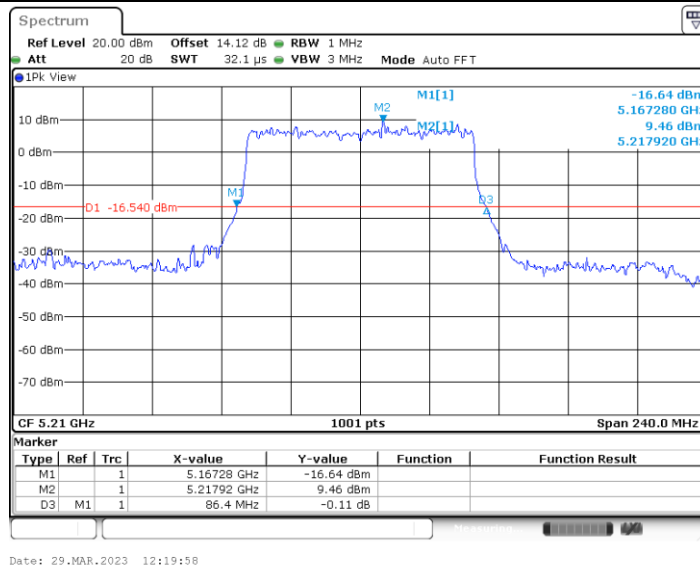




11BE80MIMO_Ant5_5210

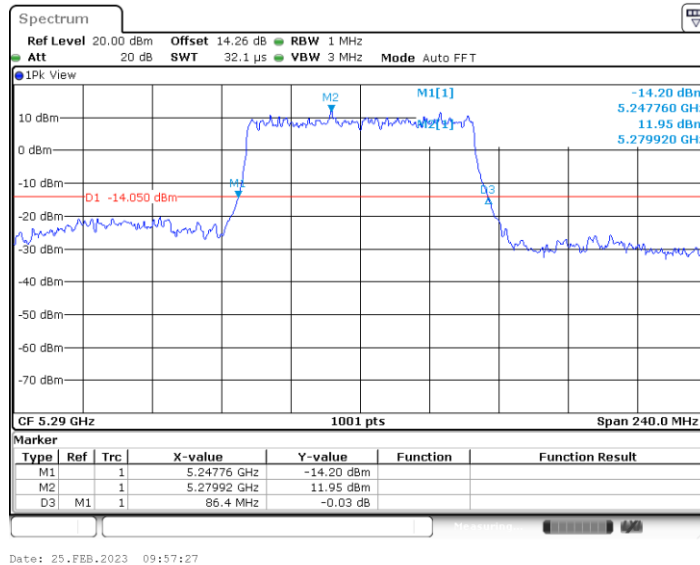


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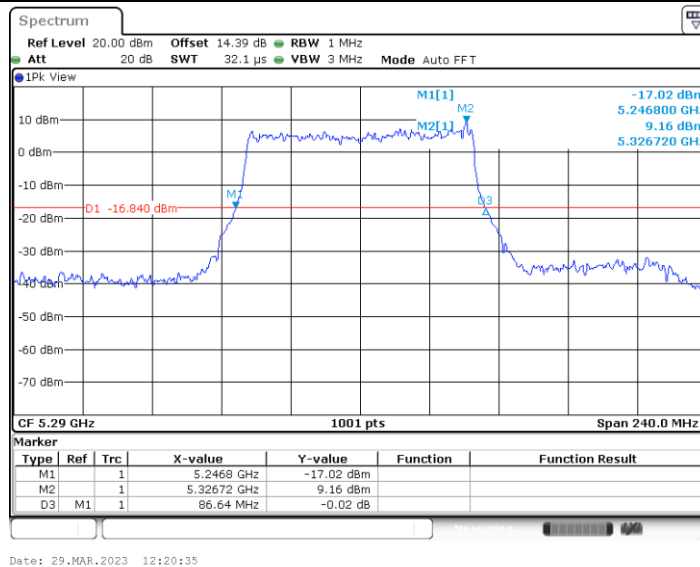




11BE80MIMO_Ant5_5290

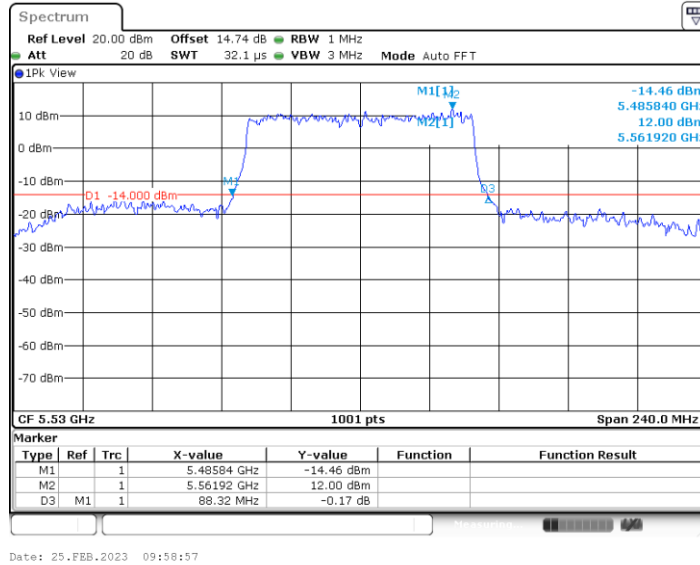


11BE80MIMO_Ant4_5290

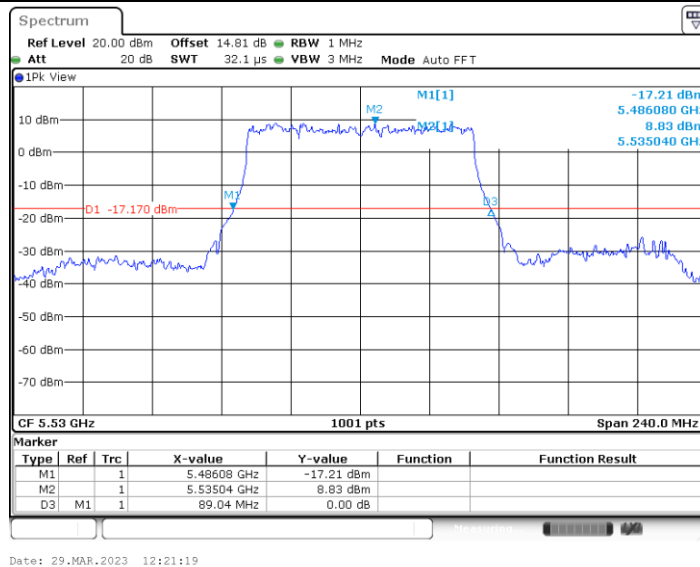




11BE80MIMO_Ant5_5530

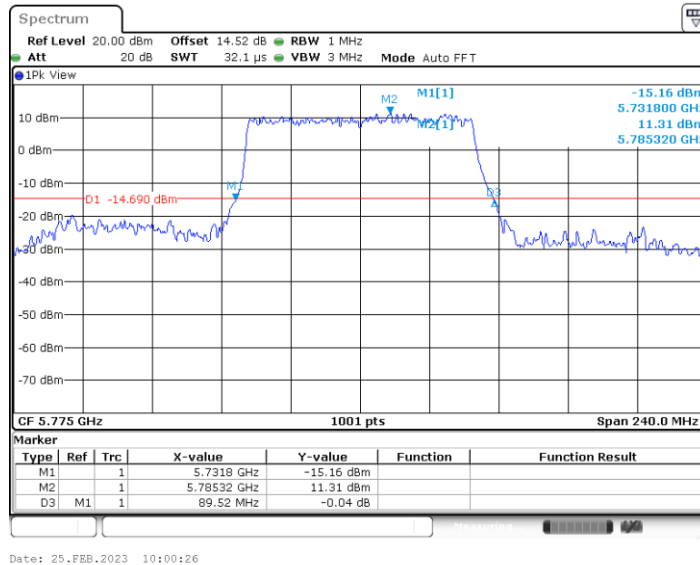


11BE80MIMO_Ant4_5530

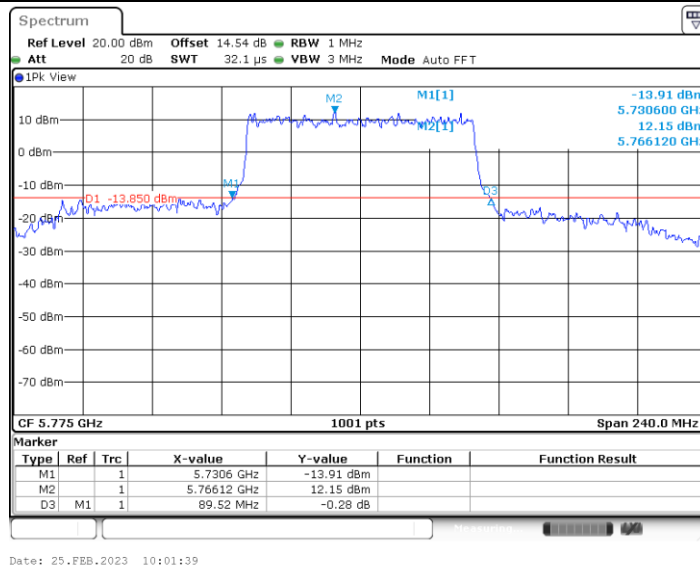




11BE80MIMO_Ant5_5775

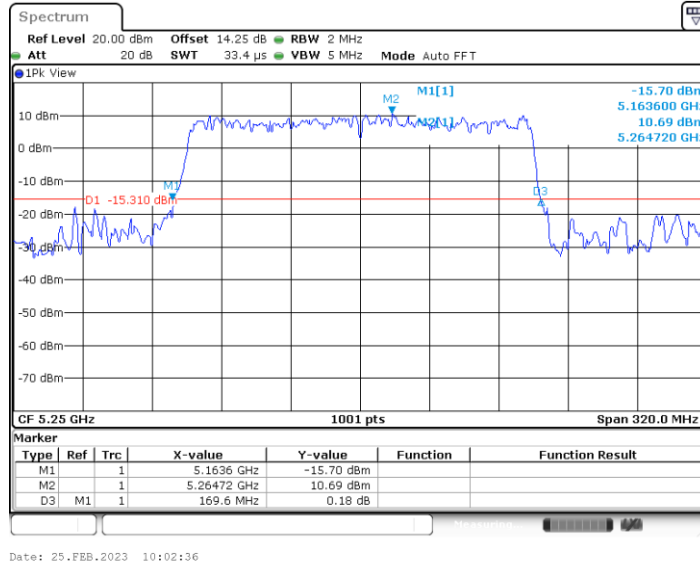


11BE80MIMO_Ant4_5775

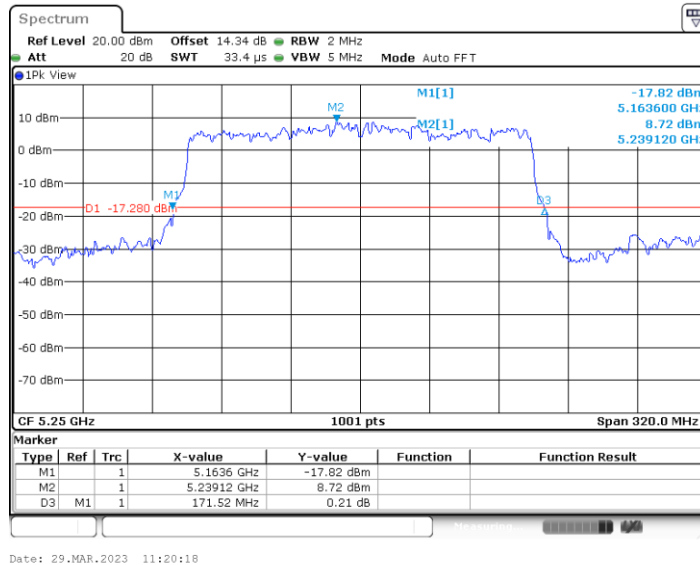




11BE160MIMO_Ant5_5250



11BE160MIMO_Ant4_5250





Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant5	5180	17.423	5171.2488	5188.6713	---	---
	Ant4	5180	17.742	5170.9291	5188.6713	---	---
	Ant5	5220	17.423	5211.1688	5228.5914	---	---
	Ant4	5220	17.343	5211.2887	5228.6314	---	---
	Ant5	5240	17.383	5231.2488	5248.6314	---	---
	Ant4	5240	17.343	5231.3287	5248.6713	---	---
	Ant5	5260	17.383	5251.2488	5268.6314	---	---
	Ant4	5260	17.542	5251.2088	5268.7512	---	---
	Ant5	5300	17.383	5291.2488	5308.6314	---	---
	Ant4	5300	17.263	5291.3287	5308.5914	---	---
	Ant5	5320	17.502	5311.2088	5328.7113	---	---
	Ant4	5320	17.463	5311.2088	5328.6713	---	---
	Ant5	5500	17.343	5491.2488	5508.5914	---	---
	Ant4	5500	17.463	5491.1688	5508.6314	---	---
	Ant5	5580	17.542	5571.1289	5588.6713	---	---
	Ant4	5580	17.702	5571.0490	5588.7512	---	---
	Ant5	5700	17.423	5691.2887	5708.7113	---	---
	Ant4	5700	17.263	5691.4086	5708.6713	---	---
	Ant5	5745	17.423	5736.2088	5753.6314	---	---
	Ant4	5745	17.662	5736.0490	5753.7113	---	---
	Ant5	5785	17.463	5776.1289	5793.5914	---	---
	Ant4	5785	17.423	5776.2488	5793.6713	---	---
	Ant5	5825	17.502	5816.1688	5833.6713	---	---
	Ant4	5825	17.423	5816.2088	5833.6314	---	---
11BE20MIMO	Ant5	5180	19.301	5170.2498	5189.5504	---	---
	Ant4	5180	20.06	5169.8102	5189.8701	---	---
	Ant5	5220	19.221	5210.3696	5229.5904	---	---
	Ant4	5220	19.461	5210.2498	5229.7103	---	---
	Ant5	5240	19.141	5230.4096	5249.5504	---	---
	Ant4	5240	19.421	5230.2897	5249.7103	---	---
	Ant5	5260	19.181	5250.3297	5269.5105	---	---
	Ant4	5260	19.301	5250.3297	5269.6304	---	---
	Ant5	5300	19.181	5290.4096	5309.5904	---	---
	Ant4	5300	19.341	5290.2897	5309.6304	---	---
	Ant5	5320	19.221	5310.3297	5329.5504	---	---
	Ant4	5320	19.221	5310.2897	5329.5105	---	---
	Ant5	5500	19.181	5490.3696	5509.5504	---	---



	Ant4	5500	19.421	5490.2498	5509.6703	---	---
	Ant5	5580	19.261	5570.2897	5589.5504	---	---
	Ant4	5580	19.301	5570.2897	5589.5904	---	---
	Ant5	5700	19.221	5690.3696	5709.5904	---	---
	Ant4	5700	19.221	5690.3696	5709.5904	---	---
	Ant5	5745	19.181	5735.3696	5754.5504	---	---
	Ant4	5745	19.341	5735.2897	5754.6304	---	---
	Ant5	5785	19.341	5775.2897	5794.6304	---	---
	Ant4	5785	19.221	5775.2897	5794.5105	---	---
	Ant5	5825	19.221	5815.3297	5834.5504	---	---
	Ant4	5825	19.381	5815.3297	5834.7103	---	---
11BE40MIMO	Ant5	5190	38.122	5170.8991	5209.0210	---	---
	Ant4	5190	38.122	5170.8991	5209.0210	---	---
	Ant5	5230	38.122	5210.8991	5249.0210	---	---
	Ant4	5230	38.122	5210.8991	5249.0210	---	---
	Ant5	5270	38.042	5250.8991	5288.9411	---	---
	Ant4	5270	38.122	5250.8991	5289.0210	---	---
	Ant5	5310	38.122	5290.8991	5329.0210	---	---
	Ant4	5310	38.042	5290.9790	5329.0210	---	---
	Ant5	5510	38.122	5490.8192	5528.9411	---	---
	Ant4	5510	38.042	5490.9790	5529.0210	---	---
	Ant5	5550	38.282	5530.8192	5569.1009	---	---
	Ant4	5550	38.282	5530.8991	5569.1808	---	---
	Ant5	5670	38.042	5650.8991	5688.9411	---	---
	Ant4	5670	38.921	5650.2597	5689.1808	---	---
	Ant5	5755	38.202	5735.7393	5773.9411	---	---
	Ant4	5755	38.122	5735.8991	5774.0210	---	---
	Ant5	5795	38.282	5775.8991	5814.1808	---	---
	Ant4	5795	38.122	5775.8991	5814.0210	---	---
11BE80MIMO	Ant5	5210	77.522	5171.1588	5248.6813	---	---
	Ant4	5210	78.322	5170.9990	5249.3207	---	---
	Ant5	5290	78.002	5250.9990	5329.0010	---	---
	Ant4	5290	78.641	5250.6793	5329.3207	---	---
	Ant5	5530	77.842	5490.9990	5568.8412	---	---
	Ant4	5530	78.322	5490.8392	5569.1608	---	---
	Ant5	5775	77.842	5736.1588	5814.0010	---	---
	Ant4	5775	77.842	5735.9990	5813.8412	---	---
11BE160MIMO	Ant5	5250	157.602	5171.0390	5328.6414	---	---
	Ant4	5250	159.201	5170.7193	5329.9201	---	---