



TEST REPORT

No.24T04N002517-004-WLAN 5G

for

Datalogic S.r.l.

MOBILE COMPUTER / BARCODE READER

Model Name: AELWF

with

Hardware Version: V3

Software Version: 1.15.000.20241025 release-keys

FCC ID: U4G-AELWF

ISED Number: 3862E-AELWF

Issued Date: 2024-11-28

Designation Number: CN1210

ISED Assigned Code: 23289

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04N002517-004-WLAN 5G	Rev.0	1st edition	2024-11-28

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

CONTENTS

CONTENTS	3
1. SUMMARY OF TEST REPORT	4
1.1. TEST ITEMS	4
1.2. TEST STANDARDS	4
1.3. TEST RESULT	4
1.4. TESTING LOCATION	4
1.5. PROJECT DATA	4
1.6. SIGNATURE	4
2. CLIENT INFORMATION	5
2.1. APPLICANT INFORMATION	5
2.2. MANUFACTURER INFORMATION	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT	6
3.2. INTERNAL IDENTIFICATION OF EUT	6
3.3. INTERNAL IDENTIFICATION OF AE	6
3.4. GENERAL DESCRIPTION	7
4. REFERENCE DOCUMENTS	8
4.1. DOCUMENTS SUPPLIED BY APPLICANT	8
4.2. REFERENCE DOCUMENTS FOR TESTING	8
5. TEST RESULTS	9
5.1. TESTING ENVIRONMENT	9
5.2. TEST RESULTS	9
5.3. STATEMENTS	9
6. TEST EQUIPMENTS UTILIZED	10
7. LABORATORY ENVIRONMENT	11
8. MEASUREMENT UNCERTAINTY	12
ANNEX A: DETAILED TEST RESULTS	13
A.1. MEASUREMENT METHOD	13
A.2. MAXIMUM OUTPUT POWER	16
A.3. PEAK POWER SPECTRAL DENSITY (CONDUCTED)	23
A.4. OCCUPIED 26dB BANDWIDTH (CONDUCTED)	27
A.5. OCCUPIED 6dB BANDWIDTH (CONDUCTED)	54
A.6. 99% OCCUPIED BANDWIDTH (CONDUCTED)	61
A.7. DYNAMIC FREQUENCY SELECTION	88
A.8. BAND EDGES COMPLIANCE	96
A.9. TRANSMITTER SPURIOUS EMISSION	110
A.10. RADIATED SPURIOUS EMISSIONS < 30MHZ	136
A.11. AC POWER LINE CONDUCTED EMISSION	138



1. Summary of Test Report

1.1. Test Items

Description	MOBILE COMPUTER / BARCODE READER
Model Name	AELWF
Applicant's name	Datalogic S.r.l.
Manufacturer's Name	Datalogic S.r.l.

1.2. Test Standards

FCC Part15-2023; ANSI C63.10-2013; RSS-247 Issue 3; RSS-Gen Issue 5 A2; KDB789033-V02r01; KDB 905462-D02;KDB 662911-V02r01.

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road,
Futian District, Shenzhen, Guangdong, P. R. China 51800

1.5. Project data

Testing Start Date: 2024-10-23
Testing End Date: 2024-11-22

1.6. Signature

Lin Zechuang
(Prepared this test report)

An Ran
(Reviewed this test report)

Zhang Bojun
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Datalogic S.r.l.
Address: Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy
Contact Person Ruggero Cacioppo
E-Mail ruggero.cacioppo@datalogic.com
Telephone: +39 0516765611
Fax: /

2.2. Manufacturer Information

Company Name: Datalogic S.r.l.
Address: Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy
Contact Person Ruggero Cacioppo
E-Mail ruggero.cacioppo@datalogic.com
Telephone: +39 0516765611
Fax: /



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

3.1. About EUT

Description	MOBILE COMPUTER / BARCODE READER
Model Name	AELWF
RF Protocol	IEEE 802.11a/n-HT20,40/ac-VHT20,40,80,160/ ax-HE20,40,80,160
WLAN Frequency Range	FCC Bands: 5150~5250MHz;5250~5350MHz; 5470~5725MHz;5725~5850MHz. ISED Band: 5150~5250MHz;5250~5350MHz;5470~5600MHz; 5650~5725 MHz;5725~5825MH (Note 2)
Type of modulation	OFDM/OFDMA
Antenna Type	Integrated antenna
Antenna Gain	Antenna 8 = 0.8 dBi; Antenna 9 = 1.0 dBi Directional Gain: 1.0 dBi (see Note3)
Power Supply	3.87V DC by Battery
FCC ID	U4G-AELWF
ISED Number	3862E-AELWF
Device Type (DFS)	Client without radar detection
Condition of EUT as received	No abnormality in appearance

Note1: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

Note2: For some frequency, such as ch114 5570MHz, ch118 5590MHz, ch120 5600MHz, ch122 5610MHz, ch124 5620MHz, ch126 5630MHz, ch128 5640MHz are not permit for ISED.

Note3: After confirmation with the customer, the Directional gain = $10 \log [(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/NANT]$ dBi = $10 \log [(10^{0.8/10} + 10^{1.0/10})/2]$ dBi ≈ 1.0 dBi.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
UT09aa	X24L00106	V3	1.15.000.20241025 release-keys	2024-10-28
UT01aa	X24L00216	V3	1.15.000.20241025 release-keys	2024-10-28

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

UT09aa is used for conduction test, UT01aa is used for radiation test and AC Power line Conducted Emission test.

3.3. Internal Identification of AE used during the test

AE No.	Description	AE ID*
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/



AE1

Model	AEL-BY-184
Manufacturer	TWS TECHNOLOGY (GUANGZHOU) LIMITED
Capacity	3870mAh(Min.)/4000mAh(Typ.)
Nominal Voltage	3.87V

AE2

Model	S018BYU12000150; SGVSSDWLC; 2ACP0183C
Manufacturer	Datalogic

AE3

Model	94ACC0327
Manufacturer	Datalogic

*AE ID and AE Label: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of MOBILE COMPUTER / BARCODE READER with integrated antenna and battery.

It consists of normal options: Lithium Battery, Charger and USB Cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

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4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47,Part 15,Subpart C FCC CFR 47,Part 15,Subpart E	2023
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
RSS-247	Spectrum Management and Telecommunications Radio Standards Specification	Issue 3 August, 2023
RSS-Gen	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices Spectrum Management and Telecommunications Radio Standards Specification	Issue 5 February,2021
KDB 789033	General Requirements for Compliance of Radio Apparatus GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E	Amendment 2 V02r01
KDB 905462	Compliance Measurement Procedures for Unlicensed-national Information Infrastructure Devices Operating in the 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection	D02
KDB 662911	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)	V02r01

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

No.	Test cases	Sub-clause of Part15E	Sub-clause of IC	Verdict
0	Maximum Output Power	15.407(a)	RSS-247 section 6.2	P
1	Power Spectral Density	15.407(a)	RSS-247 section 6.2	P
2	Occupied 26dB Bandwidth	15.403(i)	RSS-247 section 6.2	P
3	Occupied 6dB Bandwidth	15.407(e)	RSS-247 section 6.2.4	P
4	99% Occupied Bandwidth	15.403	RSS-247 section 6.2	/
5	Band edge compliance	15.209	RSS-247 section 6.2	P
6	Radiated Spurious Emissions	15.209	RSS-Gen section 8.9	P
7	AC Power line Conducted	15.107, 15.207	RSS-Gen section 8.8	P
8	Transmit Power Control	15.407	/	NA

See **ANNEX A** for details.

Note: According to the definition of the application description, the device will automatically discontinue transmission in case of either absence of information to transmit or operational failure.

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacture as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Signal Analyzer	N9020A	My48011880	Keysight	2025-03-26	1 year
3	Power Sensor	U2021XA	MY55430013	Keysight	2024-12-27	1 year
4	RF Control Unit	JS0806-2	21C8060398	Tonscend	2025-05-06	1 year
5	Vector Signal Generator	SMW200A	110889	Rohde & Schwarz	2025-03-11	1 year
6	Shielding Room	S81	CT000986-1344	ETS-Lindgren	2026-09-12	5 years
No.	Equipment	Model	FCC ID	Manufacturer	Calibration Due date	Calibration Period
6	Master AP	RT-AX86U	MSQ-RTAXI600	ASUS	/	/

Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2024-11-22	1 year
2	Spectrum Analyzer	FSV40	101192	Rohde & Schwarz	2025-01-12	1 year
3	Hybrid antenna	VULB 9163	330	Schwarzbeck	2027-04-21	3 years
4	Horn Antenna	3117	00066577	ETS-Lindgren	2025-04-17	3 years
5	Horn Antenna	QSH-SL-18-26-S-20	17013	Q-par	2026-02-01	3 years
6	Horn Antenna	QSH-SL-26-40-K-20	17014	Q-par	2026-01-30	3 years
7	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025-05-28	2 years
8	Loop Antenna	HLA6120	35779	TESEQ	2025-05-10	3 years
9	Test Receiver	ESCI	100702	Rohde & Schwarz	2025-01-10	1 year
10	LISN	ENV216	102067	Rohde & Schwarz	2025-10-07	1 year

Test software

No.	Equipment	Manufacturer	Version
1	JS1120-3	Tonscend	3.5
2	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal.
The EUT was programmed to be in continuously transmitting mode.

7. Laboratory Environment

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω

Anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

8. Measurement Uncertainty

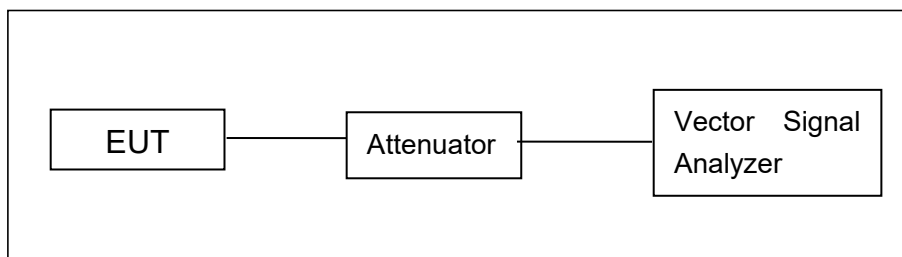
Test Name	Uncertainty ($k=2$)	
1. Maximum output Power	1.36dB	
2. Peak Power Spectral Density	1.36dB	
3. Occupied 26dB Bandwidth	4.56kHz	
4. Occupied 6dB Bandwidth	4.56kHz	
5. 99% Occupied Bandwidth	4.56kHz	
6. Band Edges Compliance	4.68dB	
7. Transmitter Spurious Emission - Radiated	$9\text{kHz} \leq f < 30\text{MHz}$	1.79dB
	$30\text{MHz} \leq f < 1\text{GHz}$	4.86dB
	$1\text{GHz} \leq f < 18\text{GHz}$	4.82dB
	$18\text{GHz} \leq f \leq 40\text{GHz}$	2.90dB
8. AC Power line Conducted Emission	$150\text{kHz} \leq f \leq 30\text{MHz}$	2.68dB

ANNEX A: Detailed Test Results

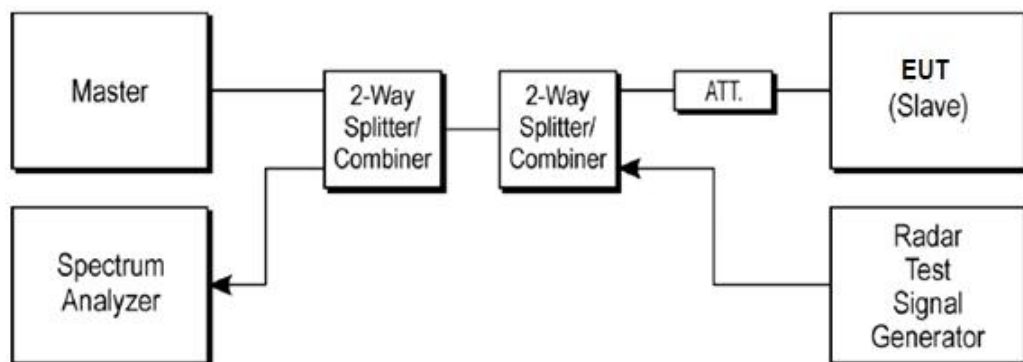
A.1. Measurement Method

1) Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values.



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

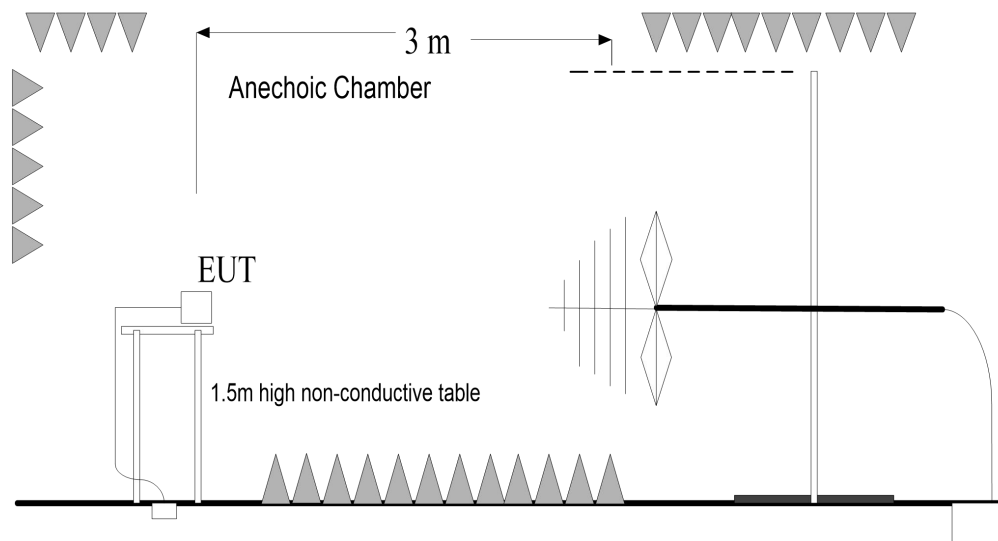


2) Radiated Emission Measurements

Test setup:

9kHz-30MHz:

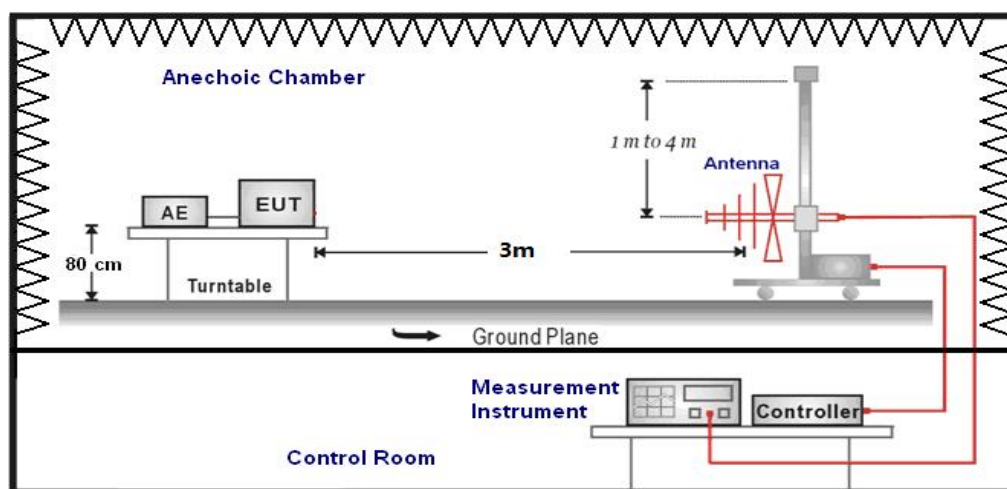
The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



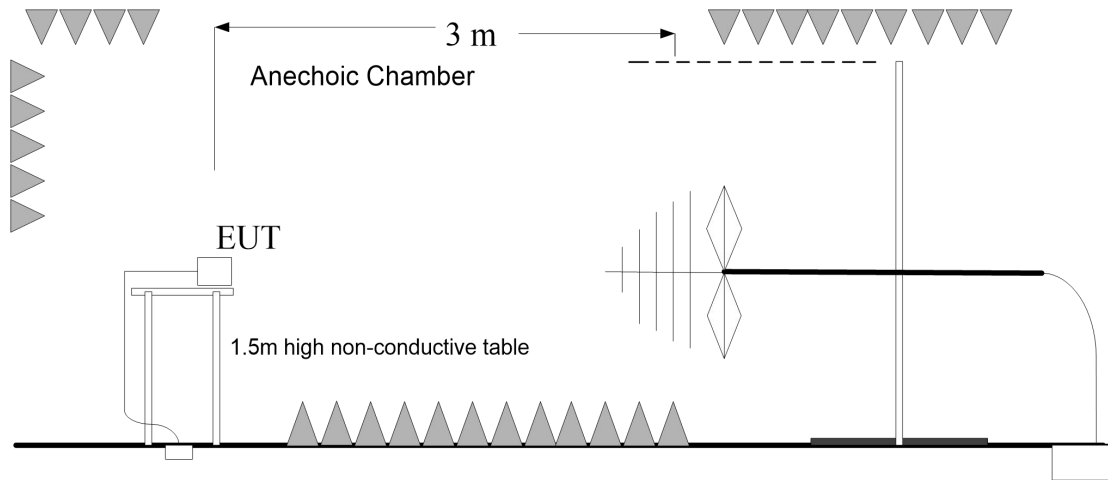
30MHz-40GHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

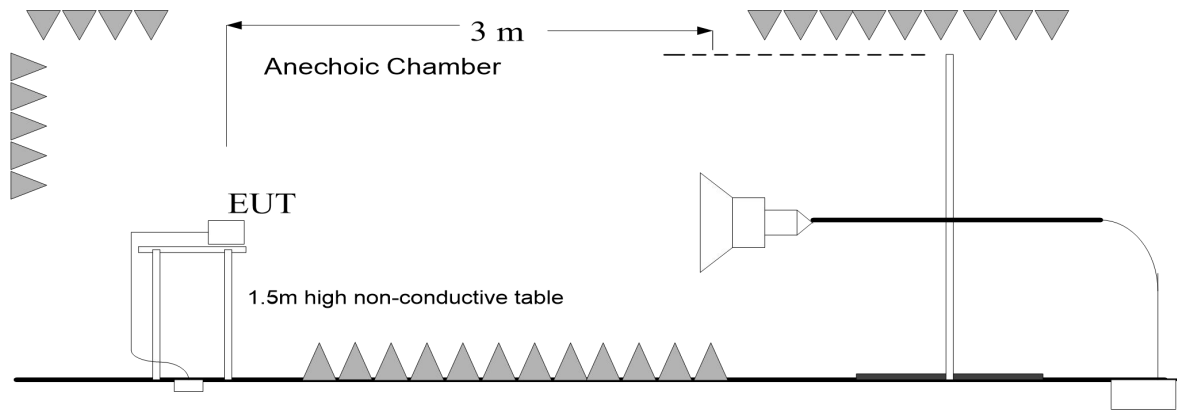
30MHz-1GHz:



1GHz-3GHz:

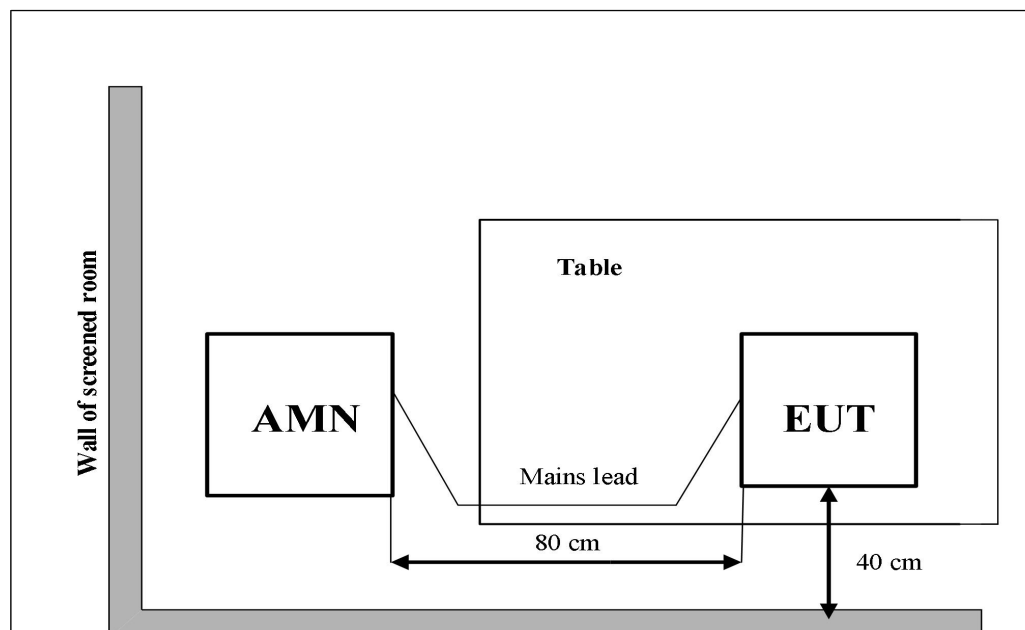


3GHz-40GHz:



3) AC Power line Conducted Emission Measurement

For WLAN, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.



A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	FCC Conducted Limit (dBm)	ISED e.i.r.p Limit (dBm)
FCC CRF Part 15.407(a)& RSS-247 section 6.2	5150MHz~5250MHz	24	23 or 10+10logB
	5250MHz~5350MHz	24 or 11+10logB	30 or 17+10logB
	5470MHz~5725MHz	24 or 11+10logB	30 or 17+10logB
	5725MHz~5850MHz	30	36

Limit use the less value, and B(FCC) is the 26dB bandwidth, B(ISED) is the 99% bandwidth

Measurement of method: See ANSI C63.10-2013-Clause 12.3.3.2.

Method PM-G is a measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Measurement Results:

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	FCC Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit (ISED) [dBm]	Verdict
11A	Ant8	5180	15.22	≤24.00	0.80	16.02	≤22.16	PASS
	Ant9	5180	15.78	≤24.00	1.00	16.78	≤22.16	PASS
	Ant8	5200	14.51	≤24.00	0.80	15.31	≤22.16	PASS
	Ant9	5200	14.88	≤24.00	1.00	15.88	≤22.16	PASS
	Ant8	5240	15.06	≤24.00	0.80	15.86	≤22.16	PASS
	Ant9	5240	15.66	≤24.00	1.00	16.66	≤22.16	PASS
	Ant8	5260	15.27	≤24.00	0.80	16.07	≤30.00	PASS
	Ant9	5260	15.79	≤24.00	1.00	16.79	≤30.00	PASS
	Ant8	5280	15.01	≤24.00	0.80	15.81	≤30.00	PASS
	Ant9	5280	15.72	≤24.00	1.00	16.72	≤30.00	PASS
	Ant8	5320	14.83	≤24.00	0.80	15.63	≤30.00	PASS
	Ant9	5320	15.99	≤24.00	1.00	16.99	≤30.00	PASS
	Ant8	5500	14.58	≤24.00	0.80	15.38	≤30.00	PASS
	Ant9	5500	15.45	≤24.00	1.00	16.45	≤30.00	PASS
	Ant8	5580	15.18	≤24.00	0.80	15.98	≤30.00	PASS
	Ant9	5580	15.24	≤24.00	1.00	16.24	≤30.00	PASS
	Ant8	5700	14.71	≤24.00	0.80	15.51	≤30.00	PASS
	Ant9	5700	15.53	≤24.00	1.00	16.53	≤30.00	PASS
	Ant8	5745	18.10	≤30.00	0.80	18.90	≤36.00	PASS
	Ant9	5745	18.40	≤30.00	1.00	19.40	≤36.00	PASS



No.24T04N002517-004-WLAN 5G

	Ant8	5785	18.15	≤30.00	0.80	18.95	≤36.00	PASS
	Ant9	5785	18.39	≤30.00	1.00	19.39	≤36.00	PASS
	Ant8	5825	18.17	≤30.00	0.80	18.97	≤36.00	PASS
	Ant9	5825	18.32	≤30.00	1.00	19.32	≤36.00	PASS
11N20	Ant8	5180	14.79	≤24.00	0.80	15.59	≤22.45	PASS
	Ant9	5180	15.53	≤24.00	1.00	16.53	≤22.45	PASS
	total	5180	18.19	≤24.00	1.00	19.19	≤22.45	PASS
	Ant8	5200	15.08	≤24.00	0.80	15.88	≤22.45	PASS
	Ant9	5200	15.73	≤24.00	1.00	16.73	≤22.45	PASS
	total	5200	18.43	≤24.00	1.00	19.43	≤22.45	PASS
	Ant8	5240	15.24	≤24.00	0.80	16.04	≤22.45	PASS
	Ant9	5240	15.94	≤24.00	1.00	16.94	≤22.45	PASS
	total	5240	18.61	≤24.00	1.00	19.61	≤22.45	PASS
	Ant8	5260	15.28	≤24.00	0.80	16.08	≤30.00	PASS
	Ant9	5260	16.02	≤24.00	1.00	17.02	≤30.00	PASS
	total	5260	18.68	≤24.00	1.00	19.68	≤30.00	PASS
	Ant8	5280	15.07	≤24.00	0.80	15.87	≤30.00	PASS
	Ant9	5280	15.96	≤24.00	1.00	16.96	≤30.00	PASS
	total	5280	18.55	≤24.00	1.00	19.55	≤30.00	PASS
	Ant8	5320	14.97	≤24.00	0.80	15.77	≤30.00	PASS
	Ant9	5320	16.18	≤24.00	1.00	17.18	≤30.00	PASS
	total	5320	18.63	≤24.00	1.00	19.63	≤30.00	PASS
	Ant8	5500	14.72	≤24.00	0.80	15.52	≤30.00	PASS
	Ant9	5500	15.47	≤24.00	1.00	16.47	≤30.00	PASS
	total	5500	18.12	≤24.00	1.00	19.12	≤30.00	PASS
	Ant8	5580	15.19	≤24.00	0.80	15.99	≤30.00	PASS
	Ant9	5580	15.17	≤24.00	1.00	16.17	≤30.00	PASS
	total	5580	18.19	≤24.00	1.00	19.19	≤30.00	PASS
	Ant8	5700	14.74	≤24.00	0.80	15.54	≤30.00	PASS
	Ant9	5700	15.51	≤24.00	1.00	16.51	≤30.00	PASS
	total	5700	18.15	≤24.00	1.00	19.15	≤30.00	PASS
	Ant8	5745	16.71	≤30.00	0.80	17.51	≤36.00	PASS
	Ant9	5745	16.91	≤30.00	1.00	17.91	≤36.00	PASS
	total	5745	19.82	≤30.00	1.00	20.82	≤36.00	PASS
	Ant8	5785	16.35	≤30.00	0.80	17.15	≤36.00	PASS
	Ant9	5785	16.55	≤30.00	1.00	17.55	≤36.00	PASS
	total	5785	19.46	≤30.00	1.00	20.46	≤36.00	PASS
	Ant8	5825	16.39	≤30.00	0.80	17.19	≤36.00	PASS
	Ant9	5825	16.65	≤30.00	1.00	17.65	≤36.00	PASS
	total	5825	19.53	≤30.00	1.00	20.53	≤36.00	PASS
11N40	Ant8	5190	17.34	≤24.00	0.80	18.14	≤23.00	PASS
	Ant9	5190	17.20	≤24.00	1.00	18.20	≤23.00	PASS
	total	5190	20.28	≤24.00	1.00	21.28	≤23.00	PASS



	Ant8	5230	17.49	≤24.00	0.80	18.29	≤23.00	PASS
	Ant9	5230	17.22	≤24.00	1.00	18.22	≤23.00	PASS
	total	5230	20.37	≤24.00	1.00	21.37	≤23.00	PASS
	Ant8	5270	18.53	≤24.00	0.80	19.33	≤30.00	PASS
	Ant9	5270	19.05	≤24.00	1.00	20.05	≤30.00	PASS
	total	5270	21.81	≤24.00	1.00	22.81	≤30.00	PASS
	Ant8	5310	16.50	≤24.00	0.80	17.30	≤30.00	PASS
	Ant9	5310	15.44	≤24.00	1.00	16.44	≤30.00	PASS
	total	5310	19.01	≤24.00	1.00	20.01	≤30.00	PASS
	Ant8	5510	16.50	≤24.00	0.80	17.30	≤30.00	PASS
	Ant9	5510	15.44	≤24.00	1.00	16.44	≤30.00	PASS
	total	5510	19.01	≤24.00	1.00	20.01	≤30.00	PASS
	Ant8	5550	18.30	≤24.00	0.80	19.10	≤30.00	PASS
	Ant9	5550	18.84	≤24.00	1.00	19.84	≤30.00	PASS
	total	5550	21.59	≤24.00	1.00	22.59	≤30.00	PASS
	Ant8	5670	17.98	≤24.00	0.80	18.78	≤30.00	PASS
	Ant9	5670	18.15	≤24.00	1.00	19.15	≤30.00	PASS
	total	5670	21.08	≤24.00	1.00	22.08	≤30.00	PASS
	Ant8	5755	18.66	≤30.00	0.80	19.46	≤36.00	PASS
	Ant9	5755	18.22	≤30.00	1.00	19.22	≤36.00	PASS
	total	5755	21.46	≤30.00	1.00	22.46	≤36.00	PASS
	Ant8	5795	19.26	≤30.00	0.80	20.06	≤36.00	PASS
	Ant9	5795	18.69	≤30.00	1.00	19.69	≤36.00	PASS
	total	5795	21.99	≤30.00	1.00	22.99	≤36.00	PASS
11AC20	Ant8	5180	15.56	≤24.00	0.80	16.36	≤22.45	PASS
	Ant9	5180	15.78	≤24.00	1.00	16.78	≤22.45	PASS
	total	5180	18.68	≤24.00	1.00	19.68	≤22.45	PASS
	Ant8	5220	15.40	≤24.00	0.80	16.20	≤22.45	PASS
	Ant9	5220	15.84	≤24.00	1.00	16.84	≤22.45	PASS
	total	5220	18.64	≤24.00	1.00	19.64	≤22.45	PASS
	Ant8	5240	15.15	≤24.00	0.80	15.95	≤22.45	PASS
	Ant9	5240	15.64	≤24.00	1.00	16.64	≤22.45	PASS
	total	5240	18.41	≤24.00	1.00	19.41	≤22.45	PASS
	Ant8	5260	15.21	≤24.00	0.80	16.01	≤30.00	PASS
	Ant9	5260	15.78	≤24.00	1.00	16.78	≤30.00	PASS
	total	5260	18.51	≤24.00	1.00	19.51	≤30.00	PASS
	Ant8	5300	15.51	≤24.00	0.80	16.31	≤30.00	PASS
	Ant9	5300	15.91	≤24.00	1.00	16.91	≤30.00	PASS
	total	5300	18.72	≤24.00	1.00	19.72	≤30.00	PASS
	Ant8	5320	14.85	≤24.00	0.80	15.65	≤30.00	PASS
	Ant9	5320	15.44	≤24.00	1.00	16.44	≤30.00	PASS
	total	5320	18.17	≤24.00	1.00	19.17	≤30.00	PASS
	Ant8	5500	15.74	≤24.00	0.80	16.54	≤30.00	PASS



	Ant9	5500	16.23	≤24.00	1.00	17.23	≤30.00	PASS
	total	5500	19.00	≤24.00	1.00	20.00	≤30.00	PASS
	Ant8	5580	15.69	≤24.00	0.80	16.49	≤30.00	PASS
	Ant9	5580	15.35	≤24.00	1.00	16.35	≤30.00	PASS
	total	5580	18.53	≤24.00	1.00	19.53	≤30.00	PASS
	Ant8	5700	15.77	≤24.00	0.80	16.57	≤30.00	PASS
	Ant9	5700	15.59	≤24.00	1.00	16.59	≤30.00	PASS
	total	5700	18.69	≤24.00	1.00	19.69	≤30.00	PASS
	Ant8	5745	17.61	≤30.00	0.80	18.41	≤36.00	PASS
	Ant9	5745	17.78	≤30.00	1.00	18.78	≤36.00	PASS
	total	5745	20.71	≤30.00	1.00	21.71	≤36.00	PASS
	Ant8	5785	17.36	≤30.00	0.80	18.16	≤36.00	PASS
	Ant9	5785	16.90	≤30.00	1.00	17.90	≤36.00	PASS
	total	5785	20.15	≤30.00	1.00	21.15	≤36.00	PASS
	Ant8	5825	17.41	≤30.00	0.80	18.21	≤36.00	PASS
	Ant9	5825	16.77	≤30.00	1.00	17.77	≤36.00	PASS
	total	5825	20.11	≤30.00	1.00	21.11	≤36.00	PASS
11AC40	Ant8	5190	16.86	≤24.00	0.80	17.66	≤23.00	PASS
	Ant9	5190	15.85	≤24.00	1.00	16.85	≤23.00	PASS
	total	5190	19.39	≤24.00	1.00	20.39	≤23.00	PASS
	Ant8	5230	17.60	≤24.00	0.80	18.40	≤23.00	PASS
	Ant9	5230	17.27	≤24.00	1.00	18.27	≤23.00	PASS
	total	5230	20.45	≤24.00	1.00	21.45	≤23.00	PASS
	Ant8	5270	18.47	≤23.98	0.80	19.27	≤30.00	PASS
	Ant9	5270	18.93	≤23.98	1.00	19.93	≤30.00	PASS
	total	5270	21.72	≤23.98	1.00	22.72	≤30.00	PASS
	Ant8	5310	16.57	≤23.98	0.80	17.37	≤30.00	PASS
	Ant9	5310	15.60	≤23.98	1.00	16.60	≤30.00	PASS
	total	5310	19.12	≤23.98	1.00	20.12	≤30.00	PASS
	Ant8	5510	18.23	≤23.98	0.80	19.03	≤30.00	PASS
	Ant9	5510	18.79	≤23.98	1.00	19.79	≤30.00	PASS
	total	5510	21.53	≤23.98	1.00	22.53	≤30.00	PASS
	Ant8	5550	18.08	≤23.98	0.80	18.88	≤30.00	PASS
	Ant9	5550	19.18	≤23.98	1.00	20.18	≤30.00	PASS
	total	5550	21.68	≤23.98	1.00	22.68	≤30.00	PASS
	Ant8	5670	18.13	≤23.98	0.80	18.93	≤30.00	PASS
	Ant9	5670	18.26	≤23.98	1.00	19.26	≤30.00	PASS
	total	5670	21.21	≤23.98	1.00	22.21	≤30.00	PASS
	Ant8	5755	18.57	≤30.00	0.80	19.37	≤36.00	PASS
	Ant9	5755	18.15	≤30.00	1.00	19.15	≤36.00	PASS
	total	5755	21.38	≤30.00	1.00	22.38	≤36.00	PASS
	Ant8	5795	19.23	≤30.00	0.80	20.03	≤36.00	PASS



	Ant9	5795	18.68	≤30.00	1.00	19.68	≤36.00	PASS
	total	5795	21.97	≤30.00	1.00	22.97	≤36.00	PASS
11AC80	Ant8	5210	15.06	≤24.00	0.80	15.86	≤36.00	PASS
	Ant9	5210	13.93	≤24.00	1.00	14.93	≤36.00	PASS
	total	5210	17.54	≤24.00	1.00	18.54	≤36.00	PASS
	Ant8	5290	14.97	≤24.00	0.80	15.77	≤30.00	PASS
	Ant9	5290	13.75	≤24.00	1.00	14.75	≤30.00	PASS
	total	5290	17.41	≤24.00	1.00	18.41	≤30.00	PASS
	Ant8	5530	15.24	≤24.00	0.80	16.04	≤30.00	PASS
	Ant9	5530	13.70	≤24.00	1.00	14.70	≤30.00	PASS
	total	5530	17.55	≤24.00	1.00	18.55	≤30.00	PASS
	Ant8	5610	15.08	≤24.00	0.80	15.88	≤30.00	PASS
	Ant9	5610	15.59	≤24.00	1.00	16.59	≤30.00	PASS
	total	5610	18.35	≤24.00	1.00	19.35	≤30.00	PASS
	Ant8	5775	19.00	≤30.00	0.80	19.80	≤36.00	PASS
	Ant9	5775	18.66	≤30.00	1.00	19.66	≤36.00	PASS
	total	5775	21.84	≤30.00	1.00	22.84	≤36.00	PASS
11AC160	Ant8	5250	12.06	≤24.00	0.80	12.86	≤30.00	PASS
	Ant9	5250	11.74	≤24.00	1.00	12.74	≤30.00	PASS
	total	5250	14.91	≤24.00	1.00	15.91	≤30.00	PASS
	Ant8	5570	14.59	≤24.00	0.80	15.39	≤30.00	PASS
	Ant9	5570	13.18	≤24.00	1.00	14.18	≤30.00	PASS
	total	5570	16.95	≤24.00	1.00	17.95	≤30.00	PASS
11AX20	Ant8	5180	16.08	≤24.00	0.80	16.88	≤22.75	PASS
	Ant9	5180	15.26	≤24.00	1.00	16.26	≤22.75	PASS
	total	5180	18.70	≤24.00	1.00	19.70	≤22.75	PASS
	Ant8	5220	15.35	≤24.00	0.80	16.15	≤22.75	PASS
	Ant9	5220	15.74	≤24.00	1.00	16.74	≤22.75	PASS
	total	5220	18.56	≤24.00	1.00	19.56	≤22.75	PASS
	Ant8	5240	15.54	≤24.00	0.80	16.34	≤22.75	PASS
	Ant9	5240	15.95	≤24.00	1.00	16.95	≤22.75	PASS
	total	5240	18.76	≤24.00	1.00	19.76	≤22.75	PASS
	Ant8	5260	15.54	≤23.98	0.80	16.34	≤30.00	PASS
	Ant9	5260	16.04	≤23.98	1.00	17.04	≤30.00	PASS
	total	5260	18.81	≤23.98	1.00	19.81	≤30.00	PASS
	Ant8	5300	15.68	≤23.98	0.80	16.48	≤30.00	PASS
	Ant9	5300	16.15	≤23.98	1.00	17.15	≤30.00	PASS
	total	5300	18.93	≤23.98	1.00	19.93	≤30.00	PASS
	Ant8	5320	15.08	≤23.98	0.80	16.08	≤30.00	PASS
	Ant9	5320	15.80	≤23.98	1.00	16.80	≤30.00	PASS
	total	5320	18.47	≤23.98	1.00	19.47	≤30.00	PASS
	Ant8	5500	15.60	≤23.98	0.80	16.40	≤30.00	PASS
	Ant9	5500	16.06	≤23.98	1.00	17.06	≤30.00	PASS



	total	5500	18.85	≤23.98	1.00	19.85	≤30.00	PASS
	Ant8	5580	16.16	≤23.98	0.80	16.96	≤30.00	PASS
	Ant9	5580	15.83	≤23.98	1.00	16.83	≤30.00	PASS
	total	5580	19.01	≤23.98	1.00	20.01	≤30.00	PASS
	Ant8	5700	15.77	≤23.98	0.80	16.57	≤30.00	PASS
	Ant9	5700	13.39	≤23.98	1.00	14.39	≤30.00	PASS
	total	5700	17.75	≤23.98	1.00	18.75	≤30.00	PASS
	Ant8	5745	17.80	≤30.00	0.80	18.60	≤36.00	PASS
	Ant9	5745	18.00	≤30.00	1.00	19.00	≤36.00	PASS
	total	5745	20.91	≤30.00	1.00	21.91	≤36.00	PASS
	Ant8	5785	17.62	≤30.00	0.80	18.42	≤36.00	PASS
	Ant9	5785	17.08	≤30.00	1.00	18.08	≤36.00	PASS
	total	5785	20.37	≤30.00	1.00	21.37	≤36.00	PASS
	Ant8	5825	17.64	≤30.00	0.80	18.44	≤36.00	PASS
	Ant9	5825	16.90	≤30.00	1.00	17.90	≤36.00	PASS
	total	5825	20.30	≤30.00	1.00	21.30	≤36.00	PASS
11AX40	Ant8	5190	15.43	≤24.00	0.80	16.23	≤23.00	PASS
	Ant9	5190	16.16	≤24.00	1.00	17.16	≤23.00	PASS
	total	5190	18.82	≤24.00	1.00	19.82	≤23.00	PASS
	Ant8	5230	16.82	≤24.00	0.80	17.62	≤23.00	PASS
	Ant9	5230	16.70	≤24.00	1.00	17.70	≤23.00	PASS
	total	5230	19.77	≤24.00	1.00	20.77	≤23.00	PASS
	Ant8	5270	16.51	≤24.00	0.80	17.31	≤30.00	PASS
	Ant9	5270	16.71	≤24.00	1.00	17.71	≤30.00	PASS
	total	5270	19.62	≤24.00	1.00	20.62	≤30.00	PASS
	Ant8	5310	15.76	≤24.00	0.80	16.56	≤30.00	PASS
	Ant9	5310	16.43	≤24.00	1.00	17.43	≤30.00	PASS
	total	5310	19.12	≤24.00	1.00	20.12	≤30.00	PASS
	Ant8	5510	16.44	≤24.00	0.80	17.24	≤30.00	PASS
	Ant9	5510	16.79	≤24.00	1.00	17.79	≤30.00	PASS
	total	5510	19.63	≤24.00	1.00	20.63	≤30.00	PASS
	Ant8	5550	16.19	≤24.00	0.80	16.99	≤30.00	PASS
	Ant9	5550	17.24	≤24.00	1.00	18.24	≤30.00	PASS
	total	5550	19.76	≤24.00	1.00	20.76	≤30.00	PASS
	Ant8	5670	15.90	≤24.00	0.80	16.70	≤30.00	PASS
	Ant9	5670	16.77	≤24.00	1.00	17.77	≤30.00	PASS
	total	5670	19.37	≤24.00	1.00	20.37	≤30.00	PASS
	Ant8	5755	17.87	≤30.00	0.80	18.67	≤36.00	PASS
	Ant9	5755	17.70	≤30.00	1.00	18.70	≤36.00	PASS
	total	5755	20.80	≤30.00	1.00	21.80	≤36.00	PASS
	Ant8	5795	17.62	≤30.00	0.80	18.42	≤36.00	PASS
	Ant9	5795	17.03	≤30.00	1.00	18.03	≤36.00	PASS
	total	5795	20.35	≤30.00	1.00	21.35	≤36.00	PASS

11AX80	Ant8	5210	14.95	≤23.98	0.80	15.72	≤36.00	PASS
	Ant9	5210	15.68	≤23.98	1.00	16.68	≤36.00	PASS
	total	5210	18.11	≤23.98	1.00	19.11	≤36.00	PASS
	Ant8	5290	13.99	≤23.98	0.80	14.79	≤30.00	PASS
	Ant9	5290	14.88	≤23.98	1.00	15.88	≤30.00	PASS
	total	5290	17.47	≤23.98	1.00	18.47	≤30.00	PASS
	Ant8	5530	14.85	≤23.98	0.80	15.65	≤30.00	PASS
	Ant9	5530	15.58	≤23.98	1.00	16.58	≤30.00	PASS
	total	5530	18.24	≤23.98	1.00	19.24	≤30.00	PASS
	Ant8	5610	15.00	≤23.98	0.80	15.80	≤30.00	PASS
	Ant9	5610	15.53	≤23.98	1.00	16.53	≤30.00	PASS
	total	5610	18.28	≤23.98	1.00	19.28	≤30.00	PASS
	Ant8	5775	18.97	≤30.00	0.80	19.77	≤36.00	PASS
	Ant9	5775	18.61	≤30.00	1.00	19.61	≤36.00	PASS
	total	5775	21.80	≤30.00	1.00	22.80	≤36.00	PASS
11AX160	Ant8	5250	12.74	≤23.98	0.80	13.54	≤30.00	PASS
	Ant9	5250	13.67	≤23.98	1.00	14.67	≤30.00	PASS
	total	5250	15.82	≤23.98	1.00	16.82	≤30.00	PASS
	Ant8	5570	14.61	≤23.98	0.80	15.41	≤30.00	PASS
	Ant9	5570	15.30	≤23.98	1.00	16.30	≤30.00	PASS
	total	5570	17.98	≤23.98	1.00	18.98	≤30.00	PASS

Note:

The data rate 6Mbps (11a mode), MCS0 (11n mode), MCS0(VHT mode), and MCS0(11ax mode) are selected as the Worst-Case. The Full RU of 802.11ax is the type with maximum outpower level. Between SISO and MIMO, the MIMO of 11n, 11ac and 11ax is the worst type. The following cases and test graphs are performed with this condition.

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

E.I.R.P value = Conducted values (with conducted samples) + Antenna Gain.

Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section F.

Measurement Limit:

Standard	Frequency (MHz)	Limit
FCC CRF Part 15.407(a))& RSS-247 section 6.2	5150MHz~5250MHz	11dBm/MHz (FCC) 10dBm/MHz(ISED)
	5250MHz~5350MHz	11dBm/MHz
	5470MHz~5725MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500kHz

The PPSP measurement method SA-1 is made according to KDB 789033.

Measurement Results:

TestMode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11a	Ant8	5180	5.37	≤11.00	PASS
	Ant9	5180	5.97	≤11.00	PASS
	Ant8	5200	4.75	≤11.00	PASS
	Ant9	5200	5.31	≤11.00	PASS
	Ant8	5240	5.31	≤11.00	PASS
	Ant9	5240	5.86	≤11.00	PASS
	Ant8	5260	5.65	≤11.00	PASS
	Ant9	5260	6.08	≤11.00	PASS
	Ant8	5280	5.19	≤11.00	PASS
	Ant9	5280	6.00	≤11.00	PASS
	Ant8	5320	5.23	≤11.00	PASS
	Ant9	5320	6.12	≤11.00	PASS
	Ant8	5500	4.85	≤11.00	PASS
	Ant9	5500	5.75	≤11.00	PASS
	Ant8	5580	5.37	≤11.00	PASS
	Ant9	5580	5.59	≤11.00	PASS
	Ant8	5700	5.03	≤11.00	PASS
	Ant9	5700	5.62	≤11.00	PASS
	Ant8	5745	7.37	≤30.00	PASS
	Ant9	5745	7.82	≤30.00	PASS
	Ant8	5785	6.09	≤30.00	PASS
	Ant9	5785	5.80	≤30.00	PASS
	Ant8	5825	6.02	≤30.00	PASS
	Ant9	5825	5.94	≤30.00	PASS
11N20	Ant8	5180	4.95	≤11.00	PASS
	Ant9	5180	5.67	≤11.00	PASS
	total	5180	8.34	≤11.00	PASS
	Ant8	5200	5.11	≤11.00	PASS
	Ant9	5200	5.72	≤11.00	PASS



No.24T04N002517-004-WLAN 5G

	total	5200	8.44	≤11.00	PASS
	Ant8	5240	5.27	≤11.00	PASS
	Ant9	5240	6.14	≤11.00	PASS
	total	5240	8.74	≤11.00	PASS
	Ant8	5260	5.34	≤11.00	PASS
	Ant9	5260	6.05	≤11.00	PASS
	total	5260	8.72	≤11.00	PASS
	Ant8	5280	5.16	≤11.00	PASS
	Ant9	5280	6.10	≤11.00	PASS
	total	5280	8.67	≤11.00	PASS
	Ant8	5320	5.03	≤11.00	PASS
	Ant9	5320	6.09	≤11.00	PASS
	total	5320	8.60	≤11.00	PASS
	Ant8	5500	4.86	≤11.00	PASS
	Ant9	5500	5.65	≤11.00	PASS
	total	5500	8.28	≤11.00	PASS
	Ant8	5580	4.94	≤11.00	PASS
	Ant9	5580	5.19	≤11.00	PASS
	total	5580	8.08	≤11.00	PASS
	Ant8	5700	4.82	≤11.00	PASS
	Ant9	5700	5.41	≤11.00	PASS
	total	5700	8.14	≤11.00	PASS
	Ant8	5745	5.49	≤30.00	PASS
	Ant9	5745	5.72	≤30.00	PASS
	total	5745	8.62	≤30.00	PASS
	Ant8	5785	5.73	≤30.00	PASS
	Ant9	5785	5.48	≤30.00	PASS
	total	5785	8.62	≤30.00	PASS
	Ant8	5825	6.10	≤30.00	PASS
	Ant9	5825	5.32	≤30.00	PASS
	total	5825	8.74	≤30.00	PASS

11AC20	Ant8	5180	5.78	≤11.00	PASS
	Ant9	5180	5.72	≤11.00	PASS
	total	5180	8.76	≤11.00	PASS
	Ant8	5220	5.45	≤11.00	PASS
	Ant9	5220	5.77	≤11.00	PASS
	total	5220	8.62	≤11.00	PASS
	Ant8	5240	5.28	≤11.00	PASS
	Ant9	5240	5.88	≤11.00	PASS
	total	5240	8.60	≤11.00	PASS
	Ant8	5260	5.12	≤11.00	PASS



	Ant9	5260	5.78	≤11.00	PASS
	total	5260	8.47	≤11.00	PASS
	Ant8	5300	5.59	≤11.00	PASS
	Ant9	5300	6.08	≤11.00	PASS
	total	5300	8.85	≤11.00	PASS
	Ant8	5320	4.99	≤11.00	PASS
	Ant9	5320	5.44	≤11.00	PASS
	total	5320	8.23	≤11.00	PASS
	Ant8	5500	5.54	≤11.00	PASS
	Ant9	5500	6.19	≤11.00	PASS
	total	5500	8.89	≤11.00	PASS
	Ant8	5580	5.58	≤11.00	PASS
	Ant9	5580	5.5	≤11.00	PASS
	total	5580	8.55	≤11.00	PASS
	Ant8	5700	5.86	≤11.00	PASS
	Ant9	5700	5.71	≤11.00	PASS
	total	5700	8.80	≤11.00	PASS
	Ant8	5745	4.99	≤30.00	PASS
	Ant9	5745	5.26	≤30.00	PASS
	total	5745	8.14	≤30.00	PASS
	Ant8	5785	4.62	≤30.00	PASS
	Ant9	5785	3.88	≤30.00	PASS
	total	5785	7.28	≤30.00	PASS
	Ant8	5825	4.57	≤30.00	PASS
	Ant9	5825	4.09	≤30.00	PASS
	total	5825	7.35	≤30.00	PASS
11AX20	Ant8	5180	5.92	≤11.00	PASS
	Ant9	5180	5.81	≤11.00	PASS
	total	5180	8.88	≤11.00	PASS
	Ant8	5220	5.37	≤11.00	PASS
	Ant9	5220	5.42	≤11.00	PASS
	total	5220	8.41	≤11.00	PASS
	Ant8	5240	5.67	≤11.00	PASS
	Ant9	5240	5.95	≤11.00	PASS
	total	5240	8.82	≤11.00	PASS
	Ant8	5260	5.36	≤11.00	PASS
	Ant9	5260	5.94	≤11.00	PASS
	total	5260	8.67	≤11.00	PASS
	Ant8	5300	5.63	≤11.00	PASS
	Ant9	5300	6.19	≤11.00	PASS
	total	5300	8.93	≤11.00	PASS
	Ant8	5320	4.86	≤11.00	PASS
	Ant9	5320	5.99	≤11.00	PASS



	total	5320	8.47	≤ 11.00	PASS
	Ant8	5500	5.53	≤ 11.00	PASS
	Ant9	5500	5.65	≤ 11.00	PASS
	total	5500	8.60	≤ 11.00	PASS
	Ant8	5580	5.97	≤ 11.00	PASS
	Ant9	5580	5.97	≤ 11.00	PASS
	total	5580	8.98	≤ 11.00	PASS
	Ant8	5700	5.57	≤ 11.00	PASS
	Ant9	5700	3.26	≤ 11.00	PASS
	total	5700	7.58	≤ 11.00	PASS
	Ant8	5745	5.11	≤ 30.00	PASS
	Ant9	5745	5.12	≤ 30.00	PASS
	total	5745	8.13	≤ 30.00	PASS
	Ant8	5785	4.99	≤ 30.00	PASS
	Ant9	5785	4.34	≤ 30.00	PASS
	total	5785	7.69	≤ 30.00	PASS
	Ant8	5825	4.65	≤ 30.00	PASS
	Ant9	5825	4.27	≤ 30.00	PASS
	total	5825	7.47	≤ 30.00	PASS

Conclusion: PASS

A.4. Occupied 26dB Bandwidth (conducted)

Measurement of method: See KDB 789033 D02 v02r01, Section C.1.

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403 (i) & RSS-247 section 5.2	/

The measurement is made according to KDB 789033

Measurement Result:

Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant9	5180	18.360	5170.840	5189.200
	Ant8	5180	18.840	5170.440	5189.280
	Ant8	5200	18.600	5190.640	5209.240
	Ant9	5200	18.720	5190.720	5209.440
	Ant8	5240	19.480	5229.720	5249.200
	Ant9	5240	18.720	5230.520	5249.240
	Ant8	5260	18.520	5250.760	5269.280
	Ant9	5260	18.760	5250.520	5269.280
	Ant8	5280	19.000	5270.320	5289.320
	Ant9	5280	18.720	5270.720	5289.440
	Ant8	5320	19.560	5309.800	5329.360
	Ant9	5320	19.680	5309.840	5329.520
	Ant8	5500	19.520	5489.760	5509.280
	Ant9	5500	18.760	5490.760	5509.520
	Ant8	5580	18.560	5570.800	5589.360
	Ant9	5580	18.560	5570.720	5589.280
	Ant8	5700	18.440	5690.880	5709.320
	Ant9	5700	18.960	5690.520	5709.480
	Ant8	5745	18.560	5735.720	5754.280
	Ant9	5745	18.720	5735.640	5754.360
	Ant8	5785	18.800	5775.520	5794.320
	Ant9	5785	18.520	5775.840	5794.360
	Ant8	5825	18.760	5815.480	5834.240
	Ant9	5825	18.720	5815.480	5834.200
11N20	Ant8	5180	19.840	5170.080	5189.920
	Ant9	5180	19.760	5170.200	5189.960
	Ant8	5200	20.120	5189.760	5209.880
	Ant9	5200	19.520	5190.200	5209.720
	Ant8	5240	19.920	5229.840	5249.760
	Ant9	5240	19.760	5230.160	5249.920



	Ant8	5260	20.240	5249.800	5270.040
	Ant9	5260	19.840	5250.000	5269.840
	Ant8	5280	20.040	5269.960	5290.000
	Ant9	5280	20.360	5269.960	5290.320
	Ant8	5320	19.920	5310.080	5330.000
	Ant9	5320	19.880	5310.160	5330.040
	Ant8	5500	20.200	5490.000	5510.200
	Ant9	5500	19.880	5489.960	5509.840
	Ant8	5580	19.720	5570.120	5589.840
	Ant9	5580	20.160	5569.840	5590.000
	Ant8	5700	20.080	5689.760	5709.840
	Ant9	5700	19.880	5690.080	5709.960
	Ant8	5745	20.480	5734.680	5755.160
	Ant9	5745	20.000	5735.120	5755.120
	Ant8	5785	20.080	5775.160	5795.240
	Ant9	5785	19.640	5775.280	5794.920
	Ant8	5825	20.040	5814.800	5834.840
	Ant9	5825	19.760	5815.120	5834.880
11N40	Ant8	5190	39.280	5170.400	5209.680
	Ant9	5190	39.280	5170.320	5209.600
	Ant8	5230	39.520	5210.320	5249.840
	Ant9	5230	39.120	5210.400	5249.520
	Ant8	5270	39.920	5250.000	5289.920
	Ant9	5270	39.760	5250.240	5290.000
	Ant8	5310	39.920	5289.920	5329.840
	Ant9	5310	39.600	5290.080	5329.680
	Ant8	5510	39.520	5490.240	5529.760
	Ant9	5510	39.760	5490.080	5529.840
	Ant8	5550	39.840	5530.080	5569.920
	Ant9	5550	39.840	5530.080	5569.920
	Ant8	5670	39.040	5650.560	5689.600
	Ant9	5670	38.960	5650.560	5689.520
	Ant8	5755	38.960	5735.640	5774.600
	Ant9	5755	38.720	5735.640	5774.360
	Ant8	5795	39.440	5775.240	5814.680
	Ant9	5795	38.800	5775.720	5814.520
11AC20	Ant8	5180	19.760	5170.000	5189.760
	Ant9	5180	19.760	5170.200	5189.960
	Ant8	5220	19.960	5210.040	5230.000
	Ant9	5220	20.360	5209.760	5230.120
	Ant8	5240	20.600	5229.760	5250.360
	Ant9	5240	19.920	5230.280	5250.200
	Ant8	5260	20.280	5249.800	5270.080



	Ant9	5260	19.840	5250.000	5269.840
	Ant8	5300	19.720	5290.120	5309.840
	Ant9	5300	19.840	5289.920	5309.760
	Ant8	5320	20.800	5309.640	5330.440
	Ant9	5320	19.800	5310.080	5329.880
	Ant8	5500	20.040	5490.080	5510.120
	Ant9	5500	19.920	5490.040	5509.960
	Ant8	5580	20.400	5569.880	5590.280
	Ant9	5580	19.440	5570.160	5589.600
	Ant8	5700	20.000	5689.920	5709.920
	Ant9	5700	19.520	5690.280	5709.800
	Ant8	5745	20.720	5734.880	5755.600
	Ant9	5745	19.800	5735.120	5754.920
	Ant8	5785	19.880	5775.080	5794.960
	Ant9	5785	20.040	5775.120	5795.160
	Ant8	5825	20.400	5814.720	5835.120
	Ant9	5825	20.120	5814.880	5835.000
11AC40	Ant8	5190	39.200	5170.560	5209.760
	Ant9	5190	39.120	5170.480	5209.600
	Ant8	5230	39.600	5210.320	5249.920
	Ant9	5230	39.120	5210.480	5249.600
	Ant8	5270	39.920	5250.480	5290.400
	Ant9	5270	39.760	5250.000	5289.760
	Ant8	5310	39.600	5290.160	5329.760
	Ant9	5310	39.360	5290.400	5329.760
	Ant8	5510	39.200	5490.320	5529.520
	Ant9	5510	39.360	5490.160	5529.520
	Ant8	5550	39.920	5529.760	5569.680
	Ant9	5550	39.200	5530.480	5569.680
	Ant8	5670	39.600	5650.240	5689.840
	Ant9	5670	38.880	5650.640	5689.520
	Ant8	5755	39.520	5735.320	5774.840
	Ant9	5755	39.200	5735.400	5774.600
	Ant8	5795	39.200	5775.560	5814.760
	Ant9	5795	39.520	5775.400	5814.920
11AC80	Ant8	5210	80.000	5169.840	5249.840
	Ant9	5210	80.960	5169.680	5250.640
	Ant8	5290	80.320	5249.840	5330.160
	Ant9	5290	80.480	5249.840	5330.320
	Ant8	5530	80.640	5489.520	5570.160
	Ant9	5530	80.480	5489.840	5570.320
	Ant8	5610	81.760	5568.560	5650.320
	Ant9	5610	80.160	5570.000	5650.160

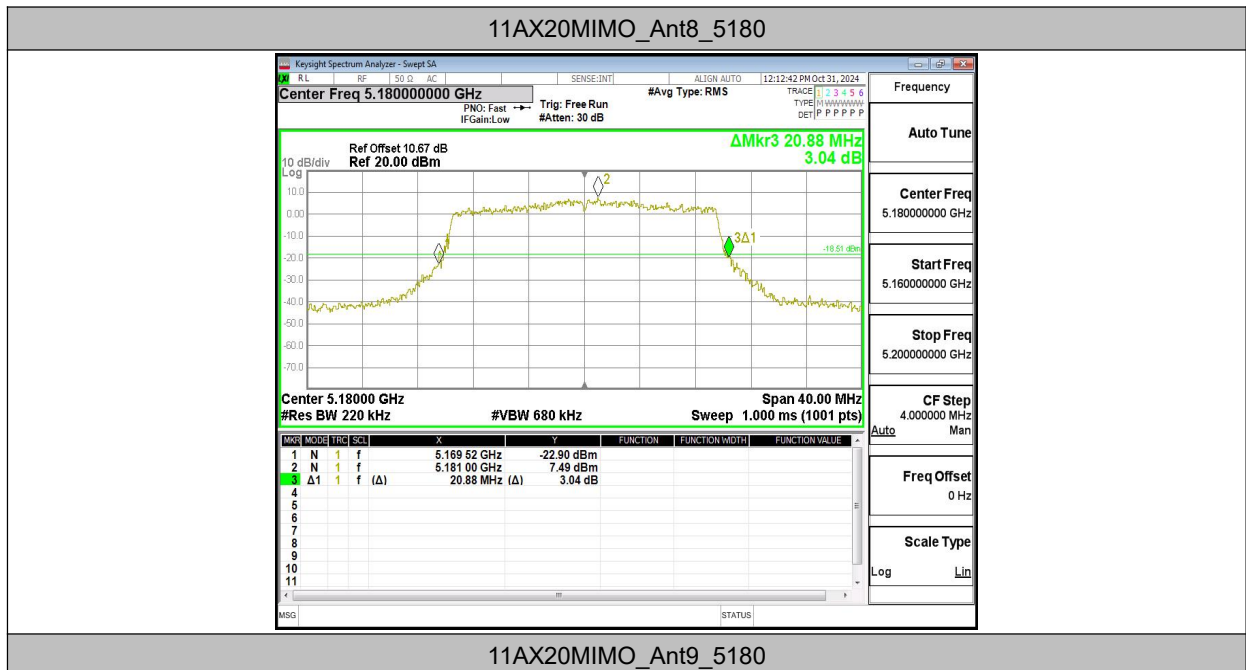


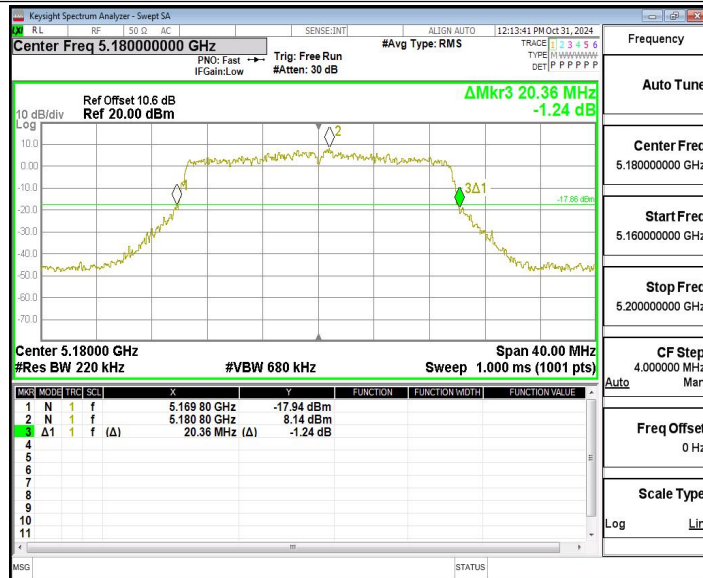
	Ant8	5775	80.800	5734.520	5815.320
	Ant9	5775	80.640	5734.840	5815.480
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	Ant9	5250	161.280	5170.000	5331.280
	Ant8	5570	163.200	5487.760	5650.960
	Ant9	5570	162.880	5489.040	5651.920
11AX20	Ant8	5180	20.880	5169.520	5190.400
	Ant9	5180	20.360	5169.800	5190.160
	Ant8	5220	20.760	5209.600	5230.360
	Ant9	5220	20.280	5209.800	5230.080
	Ant8	5240	20.480	5229.840	5250.320
	Ant9	5240	20.360	5229.840	5250.200
	Ant8	5260	20.600	5249.600	5270.200
	Ant9	5260	20.480	5249.720	5270.200
	Ant8	5300	20.520	5289.640	5310.160
	Ant9	5300	20.560	5289.680	5310.240
	Ant8	5320	20.560	5309.760	5330.320
	Ant9	5320	20.400	5309.880	5330.280
	Ant8	5500	20.800	5489.720	5510.520
	Ant9	5500	20.560	5489.720	5510.280
	Ant8	5580	20.480	5569.800	5590.280
	Ant9	5580	20.120	5569.960	5590.080
	Ant8	5700	20.640	5689.720	5710.360
	Ant9	5700	20.440	5689.720	5710.160
	Ant8	5745	20.600	5734.640	5755.240
	Ant9	5745	20.520	5734.840	5755.360
	Ant8	5785	20.680	5774.720	5795.400
	Ant9	5785	20.600	5774.880	5795.480
	Ant8	5825	20.640	5814.760	5835.400
	Ant9	5825	20.480	5814.800	5835.280
11AX40MIMO	Ant8	5190	39.920	5170.160	5210.080
	Ant9	5190	39.920	5170.000	5209.920
	Ant8	5230	39.840	5210.080	5249.920
	Ant9	5230	39.920	5210.160	5250.080
	Ant8	5270	39.840	5250.160	5290.000
	Ant9	5270	39.920	5250.160	5290.080
	Ant8	5310	39.840	5290.160	5330.000
	Ant9	5310	40.320	5289.760	5330.080
	Ant8	5510	39.840	5490.080	5529.920
	Ant9	5510	39.840	5490.080	5529.920
	Ant8	5550	40.240	5529.600	5569.840
	Ant9	5550	40.640	5529.680	5570.320
	Ant8	5670	40.000	5650.080	5690.080



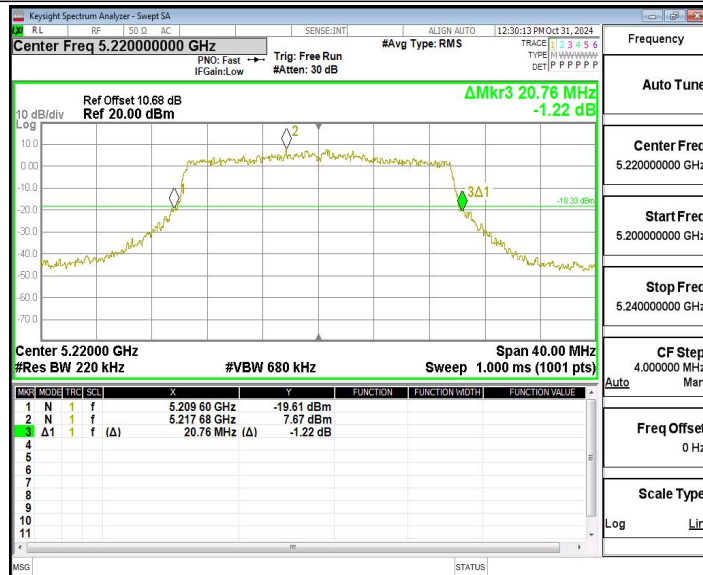
	Ant9	5670	39.920	5649.920	5689.840
	Ant8	5755	39.760	5735.160	5774.920
	Ant9	5755	39.760	5735.160	5774.920
	Ant8	5795	40.240	5774.920	5815.160
	Ant9	5795	39.600	5775.240	5814.840
11AX80	Ant8	5210	80.800	5169.680	5250.480
	Ant9	5210	80.800	5169.840	5250.640
	Ant8	5290	81.120	5249.680	5330.800
	Ant9	5290	81.120	5249.520	5330.640
	Ant8	5530	80.960	5489.360	5570.320
	Ant9	5530	80.640	5489.840	5570.480
	Ant8	5610	81.280	5569.040	5650.320
	Ant9	5610	80.640	5569.680	5650.320
	Ant8	5775	80.960	5734.680	5815.640
	Ant9	5775	80.960	5734.520	5815.480
11AX160	Ant8	5250	163.520	5168.720	5332.240
	Ant9	5250	162.880	5169.040	5331.920
	Ant8	5570	164.480	5488.080	5652.560
	Ant9	5570	162.880	5488.720	5651.600

See below for test graphs.

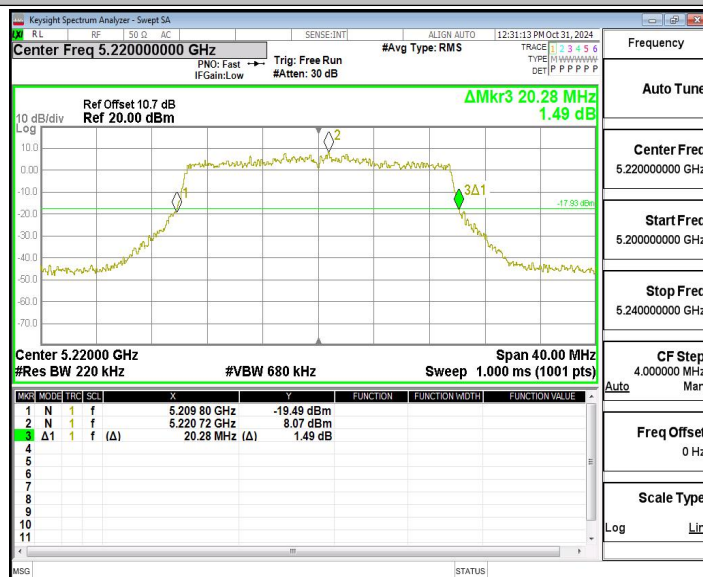




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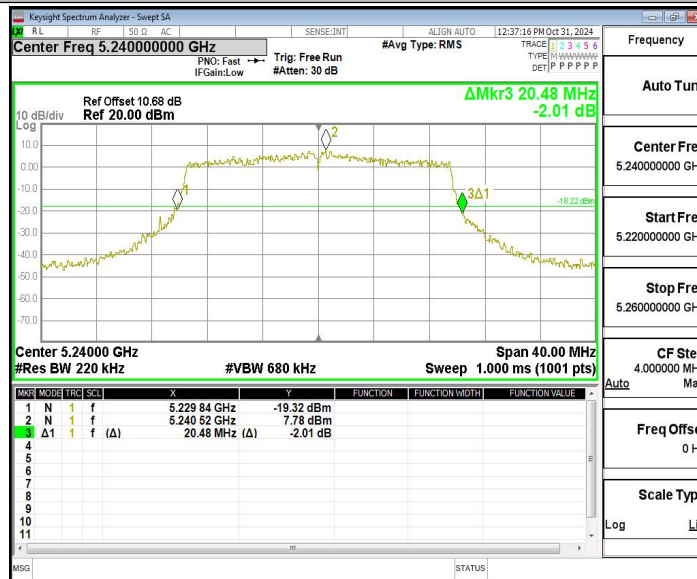


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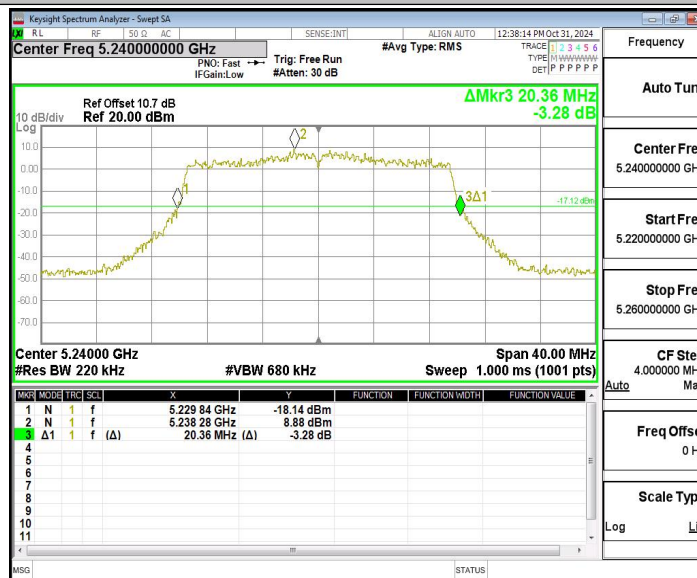




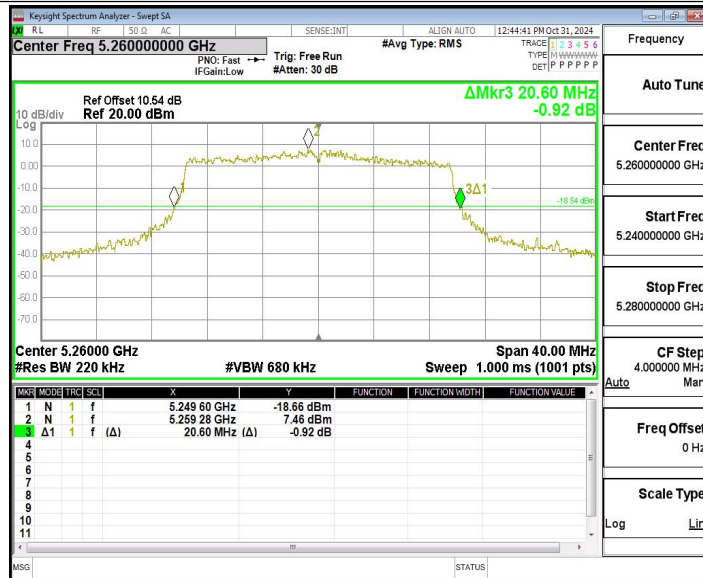
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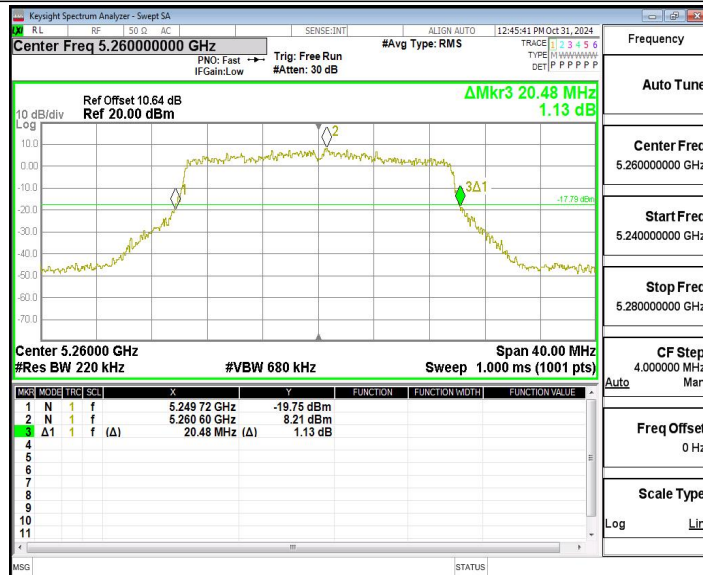
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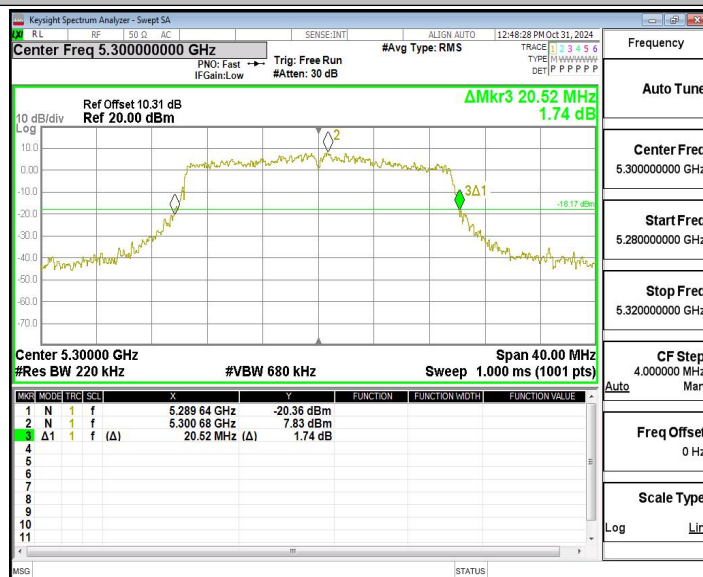
11AX20MIMO_Ant8_5260



11AX20MIMO_Ant9_5260

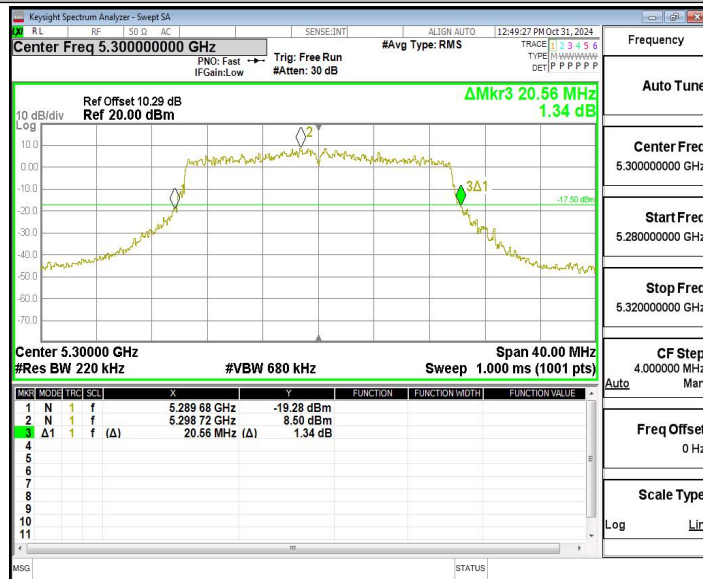


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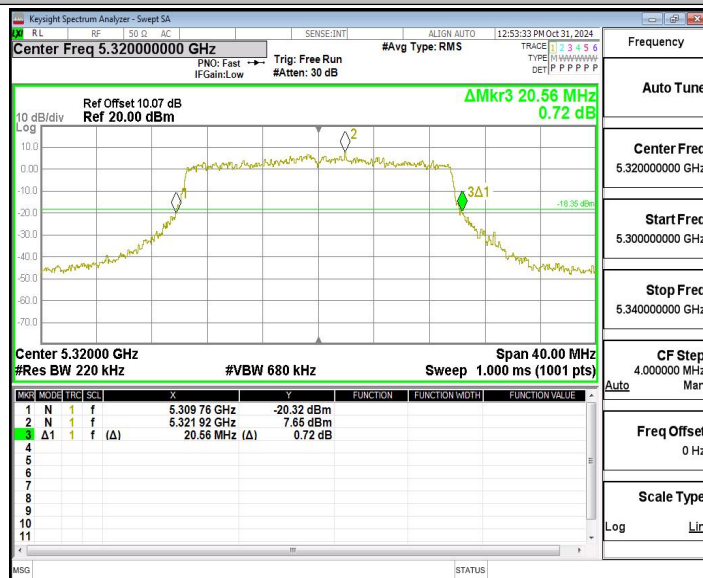




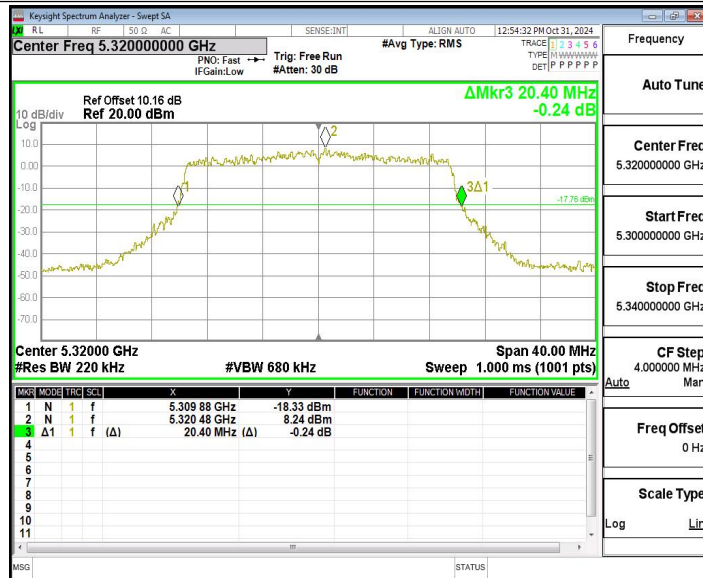
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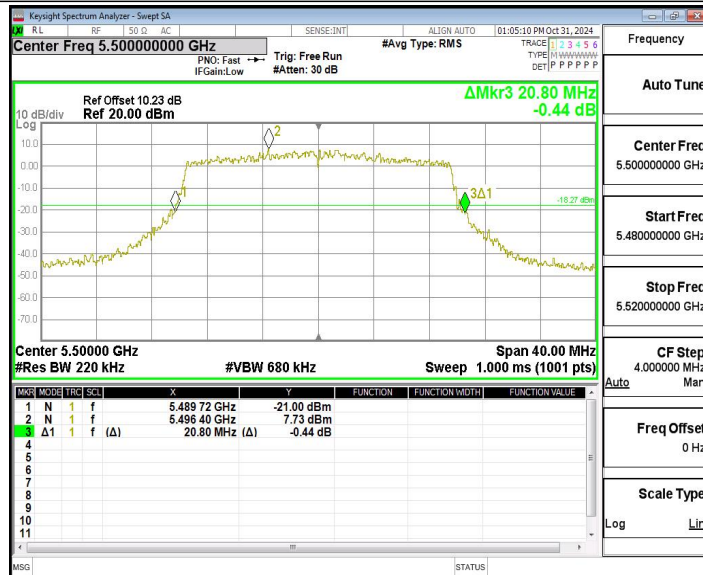
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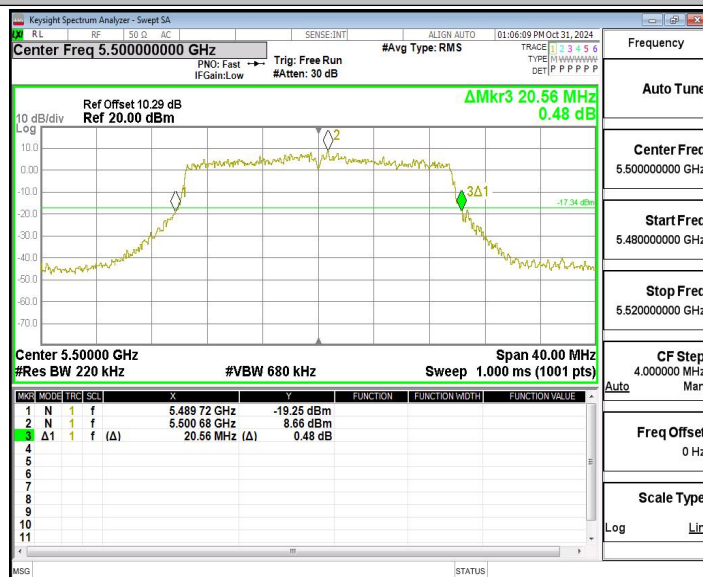
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11AX20MIMO_Ant8_5500

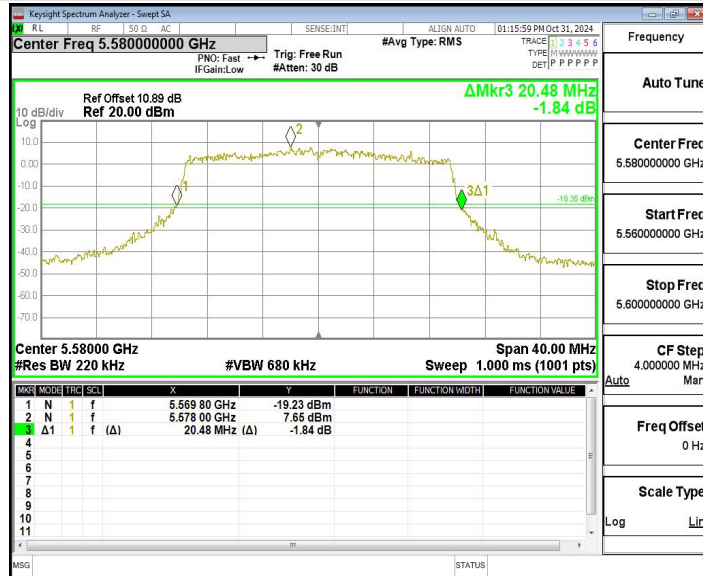


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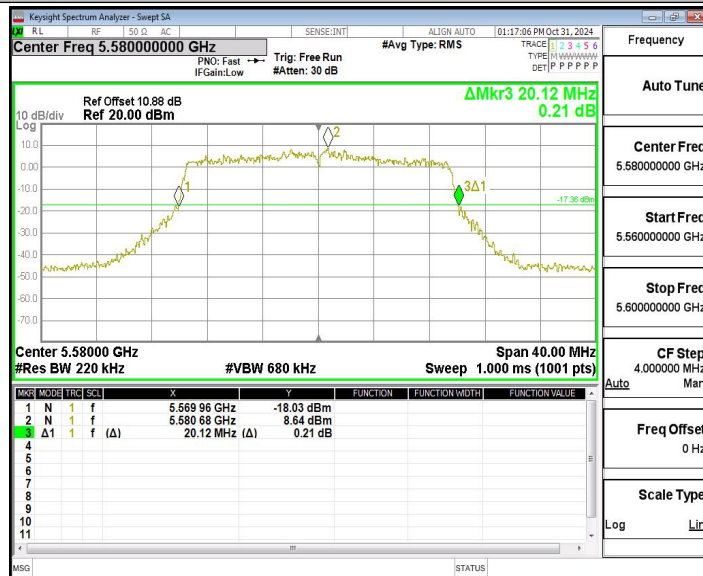




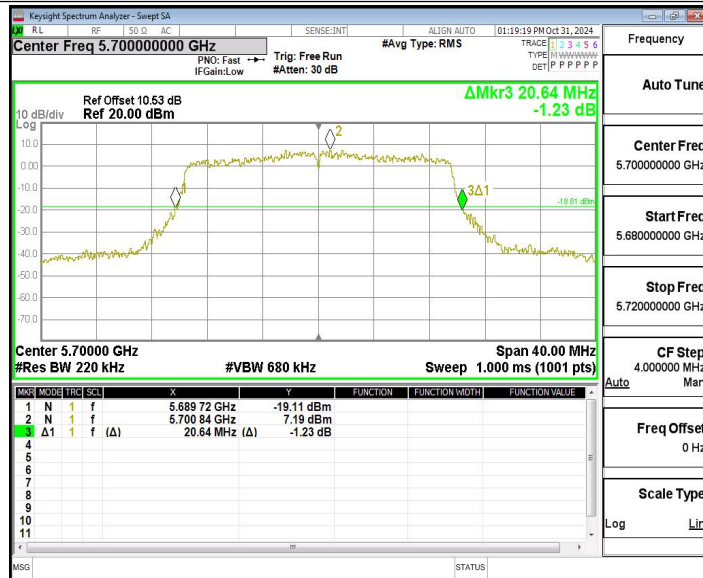
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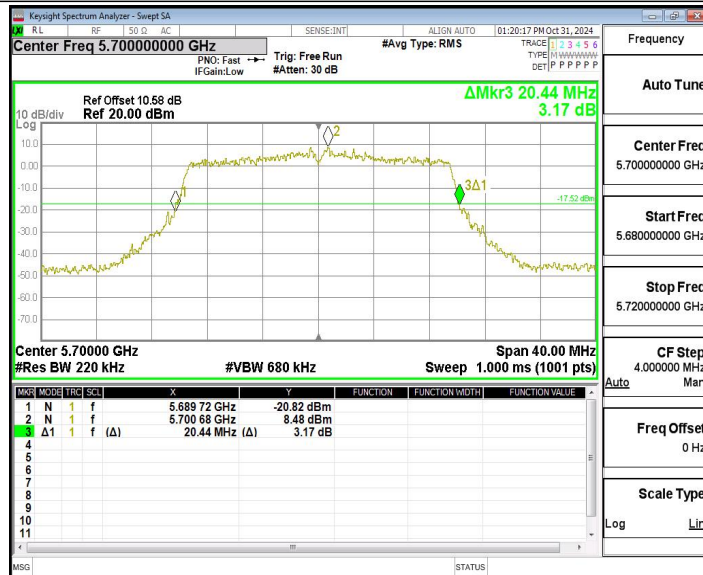
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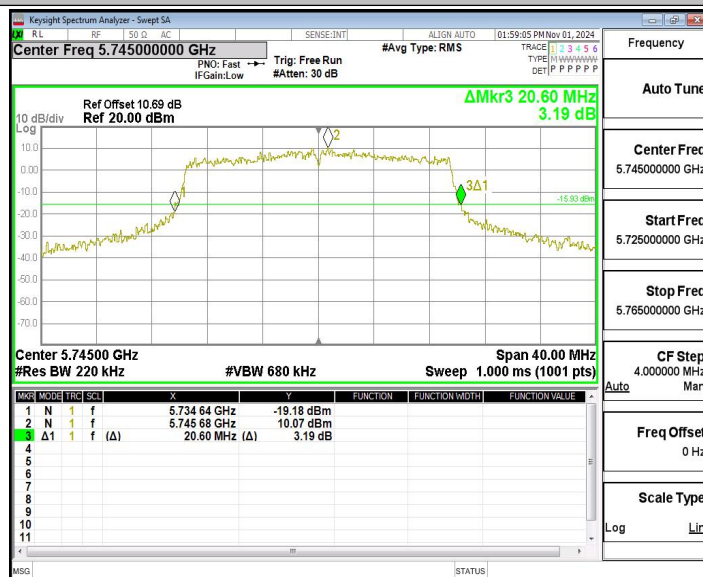
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11AX20MIMO_Ant9_5700

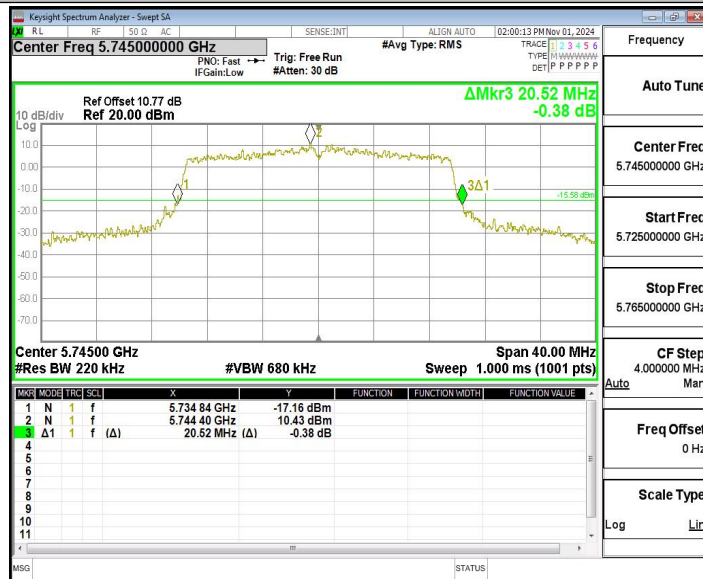


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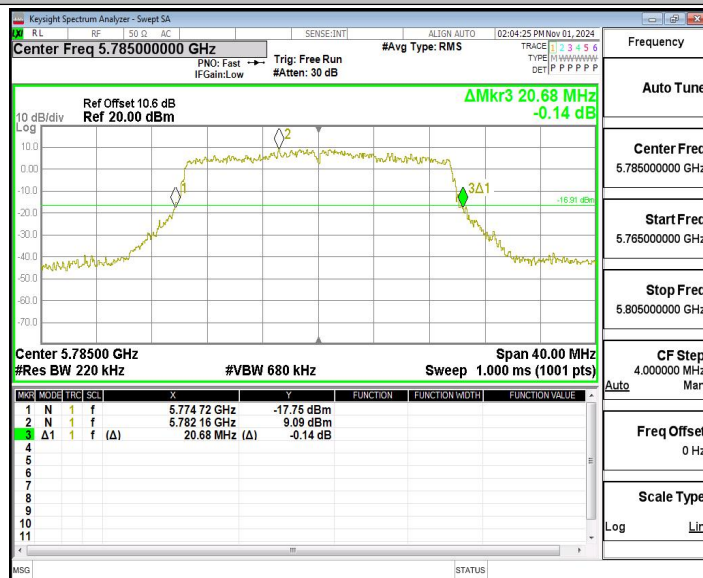




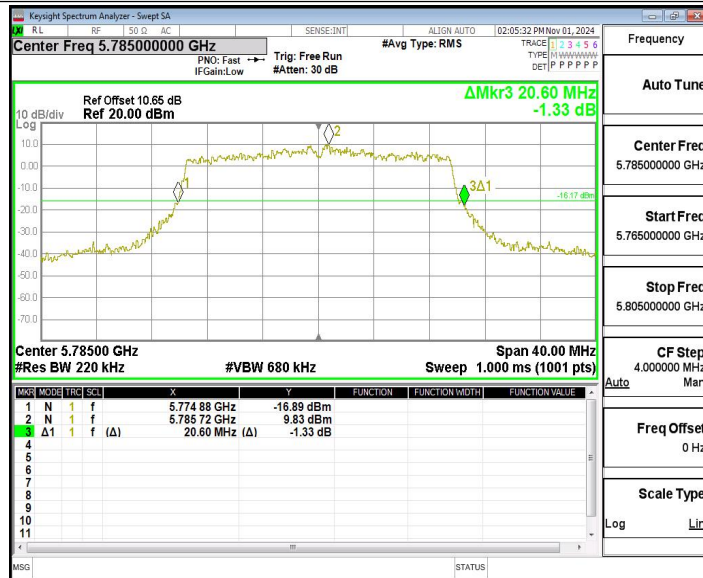
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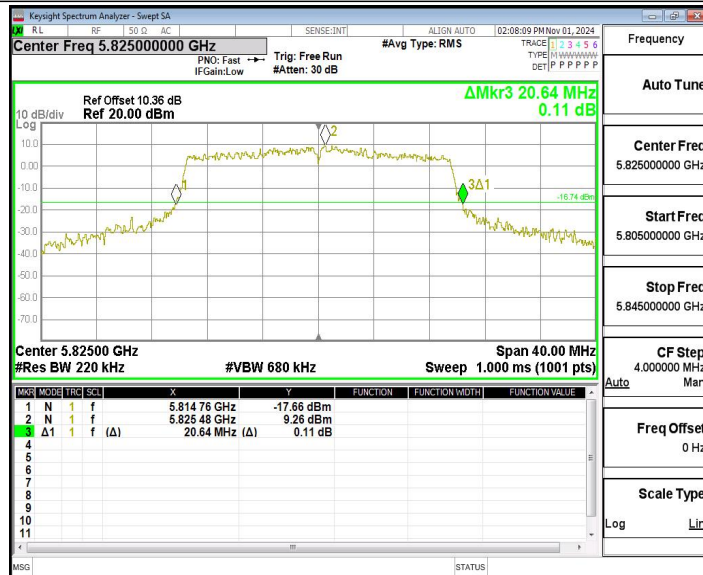
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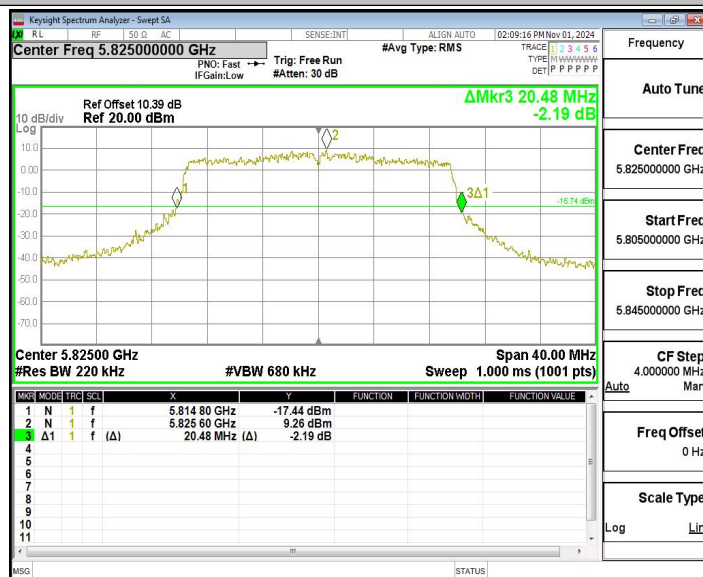
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11AX20MIMO_Ant8_5825

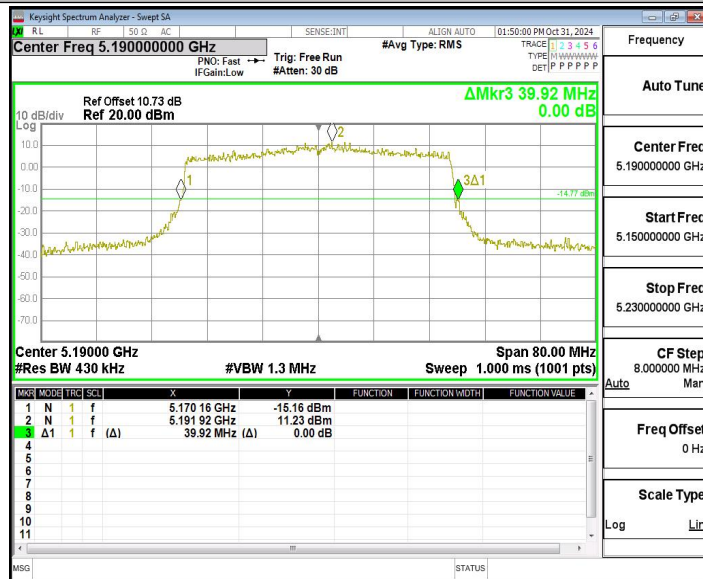


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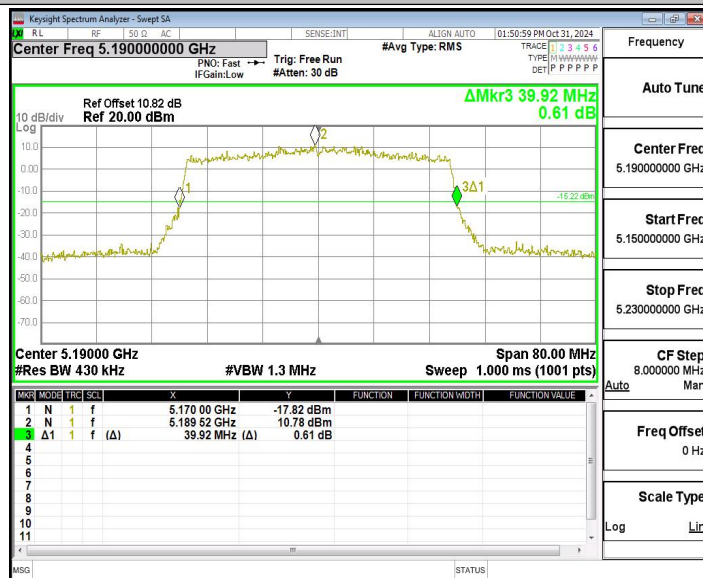




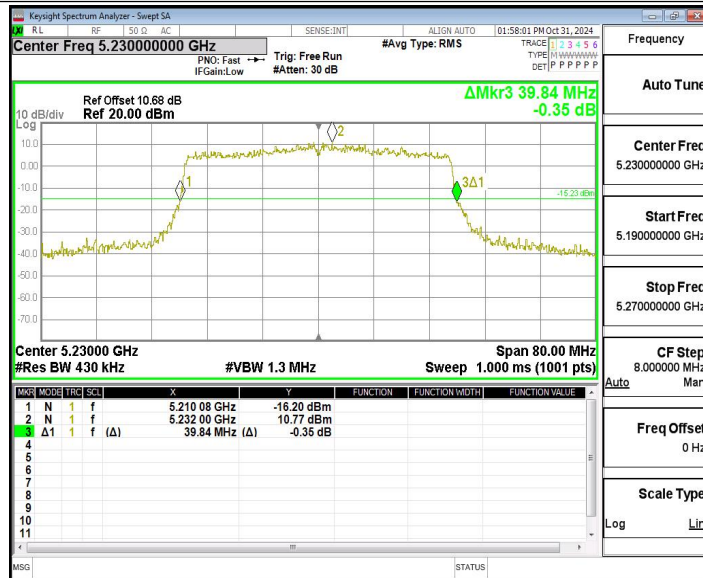
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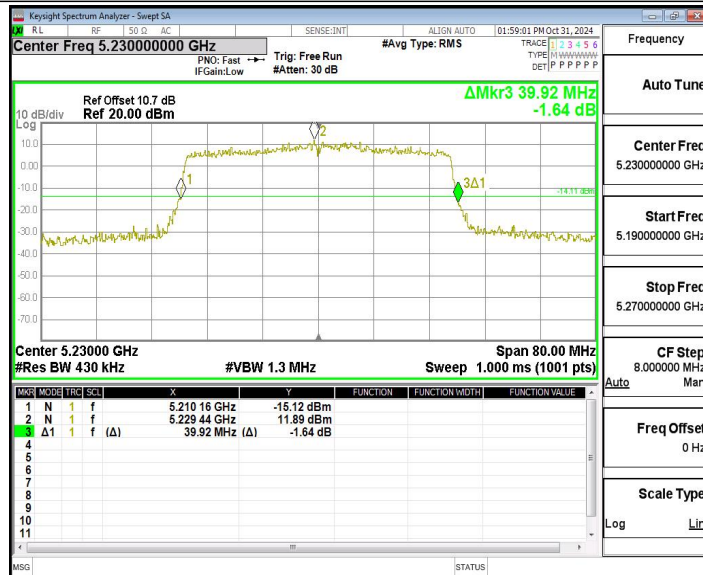
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11AX40MIMO_Ant8_5230



11AX40MIMO_Ant9_5230



11AX40MIMO_Ant8_5270

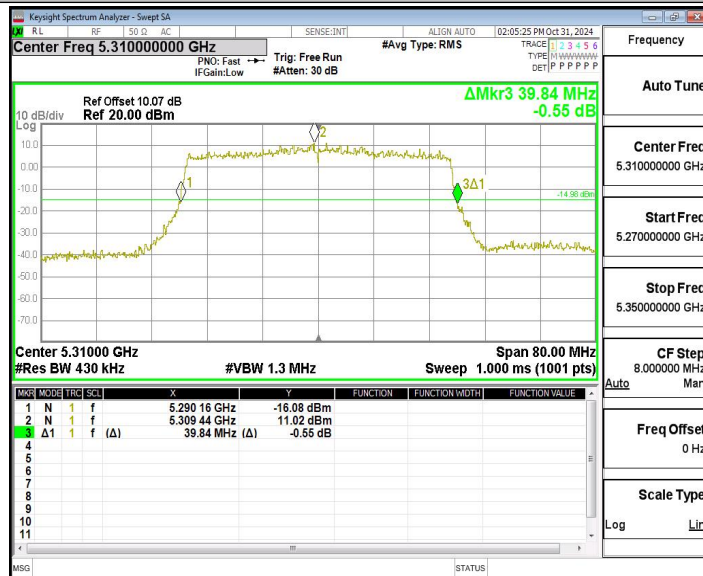




11AX40MIMO_Ant9_5270



11AX40MIMO_Ant8_5310



11AX40MIMO_Ant9_5310