

## **ELEMENT MATERIALS TECHNOLOGY**

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# MEASUREMENT REPORT FCC PART 15.407 / ISED RSS-248 UNII 802.11ax OFDMA WIFI 6E

**Applicant Name: Date of Testing:** 

05/27/2022 - 9/26/2022 Apple Inc.

One Apple Park Way **Test Report Issue Date:** 05/22/2023

Cupertino, CA 95014 **United States** 

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

**Test Report Serial No.:** 1C2205090024-12-R3.BCG

FCC ID: **BCGA2759** 

IC: 579C-A2759

APPLICANT: Apple Inc.

Application Type: Certification

Model/HVIN: A2759

**EUT Type: Tablet Device** Frequency Range: 5955 - 7115MHz

**Modulation Type: OFDMA** 

**FCC Classification:** 15E 6GHz Low Power Dual Client (6CD)

FCC Rule Part(s): Part 15 Subpart E (15.407)

**ISED Specification:** RSS-248 Issue 2

**Test Procedure(s):** ANSI C63.10-2013, KDB 789033 D02 v02r01

KDB 662911 D01 v02r01, KDB 987594 D02 v01r01

KDB 987594 D04 v01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1C2205090024-12-R3.BCG) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



Executive Vice President





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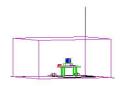


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# **MEASUREMENT REPORT**



					SIS	30		SE	DM
	UNII Band Channel Bandwidth (MHz)	Channel	Ty Fraguency	Antenn	Antenna WF5t Antenna WF5b		Summed		
UNII Band		Mode	Tx Frequency (MHz)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)	Max. e.i.r.p (mW)	Max. e.i.r.p (dBm)
5		802.11ax	5955 - 6415	4.436	6.47	5.321	7.26	5.242	7.19
6	20	802.11ax	6435 - 6515	5.200	7.16	5.483	7.39	5.334	7.27
7	20	802.11ax	6535 - 6875	5.248	7.20	5.224	7.18	5.334	7.27
8		802.11ax	6895 - 7095	6.237	7.95	5.047	7.03	5.934	7.73
5		802.11ax	5965 - 6405	8.166	9.12	10.186	10.08	10.576	10.24
6	40	802.11ax	6445 - 6525	10.280	10.12	10.914	10.38	10.667	10.28
7	40	802.11ax	6565 - 6845	10.351	10.15	10.544	10.23	10.472	10.20
8		802.11ax	6885 - 7085	10.765	10.32	8.872	9.48	10.468	10.20
5		802.11ax	5985 - 6385	16.406	12.15	20.606	13.14	20.860	13.19
6	80	802.11ax	6465	20.277	13.07	22.336	13.49	20.581	13.13
7	80	802.11ax	6545 - 6865	20.654	13.15	20.749	13.17	21.136	13.25
8		802.11ax	6945 - 7025	21.677	13.36	17.258	12.37	20.887	13.20
5		802.11ax	6025 - 6345	35.075	15.45	48.195	16.83	46.502	16.67
6	160	802.11ax	6505	45.499	16.58	47.098	16.73	47.646	16.78
7	100	802.11ax	6665 - 6825	43.152	16.35	44.463	16.48	43.966	16.43
8		802.11ax	6985	48.641	16.87	39.719	15.99	46.118	16.64

**EUT Overview** 

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#### 1.0 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

### 1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

# 1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.

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# 2.0 PRODUCT INFORMATION

# 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID**: **BCGA2759** and **IC**: **579C-A2759**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter while operating in the 6GHz band.

Test Device Serial No.: DLX226400LX1JY24J, TQRWGXQV9D, K6JXY2997P, HF3QPQ32HD,DWKYV0X2W9

### 2.2 Device Capabilities

This device contains the following capabilities:

802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, 802.11a/ax WiFi 6E, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), WPT, NB UNII (1x, HDR4, HDR8)

This device supports BT Beamforming

Band	5
------	---

Ch.	Frequency (MHz)
1	5955
	• •
45	6175
:	:
93	6415

#### Band 6

Ch.	Frequency (MHz)
97	6435
:	• •
105	6475
:	:
113	6515

#### Band 7

Ch.	Frequency (MHz)
117	6535
• •	•
149	6695
:	:
185	6875

#### Band 8

Ch.	Frequency (MHz)
189	6895
:	:
209	6995
:	:
229	7095

Table 2-1. 802.11a / 802.11ax (20MHz) Frequency / Channel Operations

#### Band 5

Ch.	Frequency (MHz)
3	5965
:	:
43	6165
:	:
91	6405

#### Band 6

	<b>D</b> ana o
Ch.	Frequency (MHz)
99	6445
:	•
107	6485
	:
115	6525

#### Band 7

Ch.	Frequency (MHz)
123	6565
	•
155	6725
:	:
179	6845

#### Band 8

Ch.	Frequency (MHz)
187	6885
:	:
211	7005
:	:
227	7085

Table 2-2. 802.11ax (40MHz BW) Frequency / Channel Operations

#### Band 5

Ch.	Frequency (MHz)	
7	5985	
:	• •	
39	6145	
:	:	
87	6385	

# Band 6

Ch.	Frequency (MHz)
103	6465

#### Band 7

Ch.	Frequency (MHz)
119	6545
:	:
151	6705
:	:
183	6865

#### Band 8

Ch.	Frequency (MHz)	
199	6945	
:		
215	7025	

Table 2-3. 802.11ax (80MHz BW) Frequency / Channel Operations

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#### Band 5

Ch.	Frequency (MHz)
15	6025
:	:
47	6185
:	:
79	6345

#### Band 6

Ch.	Frequency (MHz)
111	6505

#### Band 7

Frequency (MHz)
6665
•
6825

#### Band 8

Ch.	Frequency (MHz)
207	6985

Table 2-4. 802.11ax (160MHz BW) Frequency / Channel Operations

#### Notes:

1. 6GHz NII operation is possible in 20MHz, 40MHz, 80MHz, and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) KDB 789033 D02 v02r01 and ANSI C63.10-2013. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

802.11 Mode / Band		Duty Cycle [%]				
		Antenna WF5t	Antenna WF5b	SDM		
	11ax(RU26) (20MHz)	89.9	89.7	89.9		
	11ax(RU242) (20MHz)	78.7	82.3	80.2		
	11ax(RU26) (40MHz)	89.2	89.3	88.6		
6GHz	11ax(RU484) (40MHz)	93.4	93.6	93.4		
ОСП2	11ax(RU26) (80MHz)	88.8	89.4	89.0		
	11ax(RU996) (80MHz)	88.3	88.5	88.4		
	11ax(RU26) (160MHz)	89.2	89.7	89.4		
	11ax(RU996x2) (160MHz)	82.6	83.4	88.7		

**Table 2-5. Measured Duty Cycles** 

2. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO		CDD		SDM		STBC	
		Antenna WF5t	Antenna WF5b	Antenna WF5t	Antenna WF5b	Antenna WF5t	Antenna WF5b	Antenna WF5t	Antenna WF5b
6GHz	11ax(RU) (20MHz)	✓	✓	✓	✓	✓	✓	×	×
	11ax(RU) (40MHz)	✓	✓	✓	✓	✓	✓	×	×
	11ax(RU) (80MHz)	✓	✓	✓	✓	✓	✓	×	×
	11ax(RU) (160MHz)	✓	✓	✓	<b>√</b>	✓	✓	×	×

**Table 2-6. WIFI Configurations** 

✓= Support ; × = NOT Support

**SISO** = Single Input Single Output

**SDM** = Spatial Diversity Multiplexing – MIMO function

**CDD** = Cyclic Delay Diversity - 2Tx Function

**STBC** = Space-Time Block Coding – 2Tx Function

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Data Rate(s) Tested: 8/8.6, 16/17.2, 24/25.8, 33/34.4, 49/51.6, 65/68.8, 73/77.4, 81/86.0, 98/103.2, 108/114.7, 122/129.0,

135/143.4 (ax - 20MHz)

16/17.2, 33/34.4, 49/51.6, 65/68.8, 98/103.2, 130/137.6, 146/154.9, 163/172.1, 195/206.5, 217/229.4,

244/258.1, 271/286.8 (ax - 40MHz BW)

34/36.0, 68/72.1, 102/108.1, 136/144.1, 204/216.2, 272/288.2, 306/324.4, 340/360.3, 408/432.4, 453/480.4,

510/540.4, 567/600.5 (ax – 80MHz BW)

34/36, 68.1/72.1, 102.1/108.1, 136.1/144.1, 204.2/216.2, 272.2/288.2, 306.3/324.3, 340.3/360.3, 408.3/432.4, 340.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/360.3/3

453.7/480.4, 510.4/540.4, 567.1/600.5 (ax - 160MHz BW)

16.3/17.2, 32.5/34.4, 48.8/51.6, 65/68.8, 97.5/103.2, 130/137.6, 146.3/154.9, 162.5/172.1, 195/206.5,

216.7/229.4, 243.8/258.1, 270.8/286.8 (ax - 20MHz MIMO)

 $32.5/34.4,\,65/68.8,\,97.5/103.2,\,130/137.6,\,195/206.5,\,260/275.3,\,292.5/309.7,\,325/344.1,\,390/412.9,\,32.5/34.1,\,32.5/34.$ 

433.3/458.8, 487.5/516.2, 541.7/573.5 (ax – 40MHz MIMO)

 $68.1/72.1,\ 136.1/144.1,\ 204.2/216.2,\ 272.2/288.2,\ 408.3/432.4,\ 544.4/576.5,\ 612.5/648.5,\ 680.6/720.6,\ 612.5/648.5,\ 61$ 

816.7/864.7, 907.4/960.8, 1020.8/1080.9, 1134.3/1201 (ax - 80/160MHz MIMO)

 $136.2/144.2,\ 272.2/288.2,\ 408.4/432.4,\ 544.4/576.4,\ 816.6/864.8,\ 1088.8/1153,\ 1225/1297,\ 1361.2/1441.2,\ 12$ 

1633.4/1729.4, 1814.8/1921.6, 2041.6/2161.8, 2268.6/2402 (ax – 160MHz MIMO)

3. Wi-Fi 2.4GHz and Bluetooth 2.4 GHz can transmit simultaneously on separate antennas. Specific 2.4 GHz Wi-Fi antenna that can only transmit simultaneously with 2.4 GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4 GHz) in connected mode and Wi-Fi (2.4 GHz) – Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. For BT (2.4 GHz) in disconnected mode and Wi-Fi (2.4 GHz) – BT will be using iPA only and Wi-Fi max power will not exceed minimum of (SAR max cap, Reg max cap) power.

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# 2.3 Antenna Description

Following antenna gains were provided by the manufacturer.

	Antenna Gain (dBi)					
Frequency (MHz)	Antenr	na WF5t	Antenna	a WF5b		
	Н	V	Н	V		
5955	1.7	-0.3	3.6	1.5		
6075	1.1	-1	3.9	0.9		
6110	1	-1.2	3.6	0.3		
6135	1	-1.2	3.6	0.3		
6185	1	-1.2	2.9	-0.5		
6215	1	-1.2	2.9	-0.5		
6255	1.4	-0.6	2.9	-0.5		
6260	1.4	-0.6	2.9	-0.5		
6375	2.7	0.1	3.8	1.4		
6430	2.7	0.1	3.8	1.4		
6435	3.1	0.9	3.5	2		
6455	3.3	0.6	3.4	2		
6505	3.3	0.6	3.4	2		
6555	3.3	0.6	3.4	2		
6580	3	0.4	3.4	2		
6590	3	0.4	3.4	2		
6665	3	0.4	3.4	2		
6675	3	0.4	3.2	2.4		
6695	3	0.4	3.2	2.4		
6735	2.8	0.7	2.5	2.8		
6740	3	0.2	2	2.1		
6855	3	0.2	2	2.1		
6910	2.5	-0.9	1.5	1.2		
6935	2.5	-0.9	1.5	1.2		
6975	2.5	-0.9	1.5	1.2		
6985	2.5	-0.9	1.5	1.2		
7035	1.8	-0.6	1.3	1.6		
7060	1.3	-1.2	1	1.6		
7115	1.3	-1.2	1	1.6		

Table 2-7. Highest Antenna Gain

Some antenna gains in the table were chosen from the worst between two frequencies as confirmed by manufacturer

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# 2.4 Test Support Equipment

	,				
1	Apple MacBook Pro	Model:	A2141	S/N:	C02DV7VKMD6T
	w/AC/DC Adapter	Model:	A2166	S/N:	N/A
2	Apple USB-C Cable	Model:	Spartan	S/N:	000MKTR02U
3	USB-C Cable	Model:	A246	S/N:	N/A
	w/ AC Adapter	Model:	A2305	S/N:	N/A
4	Apple Pencil	Model:	N/A	S/N:	GQXGSXBJKM9
5	DC Power Supply	Madalı	KPS3010D	S/N:	N/A

**Table 2-8. Test Support Equipment List** 

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## 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013, KDB 789033 D02 v02r01 and KDB 987594 D02 v01r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, 7.5 and 7.6 for antenna port conducted emissions test setups.

There are two vendors of the WiFi/Bluetooth radio modules, variant 1 and variant 2. Both radio modules have the same mechanical outline, same on-board antenna matching circuit, identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. The worst case configuration was found between the two variants. The EUT was also investigated with and without charger.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and EUT powered by AC/DC was the worst case.

- EUT powered by AC/DC adaptor via USB-C cable with wire charger
- EUT powered by host PC via USB-C cable with wire charger

For 802.11ax-RU test results, see separate UNII 6E OFDM report, 1C2205090024-11.BCG.

#### 2.6 Software and Firmware

The test was conducted with firmware version 20A8359 installed on the EUT.

#### 2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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# 3.0 DESCRIPTION OF TESTS

#### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure......None

#### 3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz,  $50\Omega/50\mu$ H Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

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#### 3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

#### 3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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# 4.0 ANTENNA REQUIREMENTS

#### Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antennas of the EUT are permanently attached.
- There are no provisions for connection to an external antenna.

#### **Conclusion:**

The EUT complies with the requirement of §15.203.

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# 5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	1.77
Line Conducted Disturbance	2.70
Radiated Disturbance (<30MHz)	4.38
Radiated Disturbance (30MHz - 1GHz)	4.75
Radiated Disturbance (1 - 18GHz)	5.20
Radiated Disturbance (>18GHz)	4.72

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# 6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	6/10/2022	Annual	6/10/2023	MY49430244
Agilent Technologies	N9020A	MXA Signal Analyzer	4/26/2022	Annual	4/26/2023	MY56470202
Anritsu	ML2496A	Power Meter	11/29/2021	Annual	11/29/2022	1840005
Anritsu	MA2411B	Pulse Power Sensor	11/30/2021	Annual	11/30/2022	1726261
Anritsu	MA2411B	Pulse Power Sensor	11/30/2021	Annual	11/30/2022	1726262
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	1/19/2022	Annual	1/19/2023	T058701-02
Com-Power Corporation	LIN-120A	Line Impedance Stabilization Network (LISN)	3/7/2022	Annual	3/7/2023	241296
ETS-Lindgren	3142E	Biconilog Antenna (26-6000MHz)	10/21/2021	Annual	10/21/2022	208204
ETS-Lindgren	3117	Double Ridged Guide Horn Antenna (1-18GHz)	10/25/2021	Annual	10/25/2022	227597
Keysight Technology	N9040B	UXA Signal Analyzer	2/8/2022	Annual	2/8/2023	MY57212015
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz-6GHz)	1/6/2022	Annual	1/6/2023	102328
Rohde & Schwarz	ESW26	EMI Test Receiver	5/19/2022	Annual	5/19/2023	101299
Rohde & Schwarz	ESW44	EMI Test Receiver	12/2/2021	Annual	12/2/2022	101570
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	3/4/2022	Annual	3/4/2023	101619
Rohde & Schwarz	FSVA3044	Signal Analyzer (up to 44 GHz)	5/12/2022	Annual	5/12/2023	101098
Rohde & Schwarz	HFH2-Z2	Loop Antenna	4/3/2022	Annual	4/3/2023	100546
Rohde & Schwarz	TC-TA18	Cross-Polarized Antenna 400MHz-18GHz	1/25/2022	Annual	1/25/2023	101063
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz-18GHz)	1/6/2022	Annual	1/6/2023	101639
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz-40GHz)	4/18/2022	Annual	4/18/2023	100050

Table 6-1. Test Equipment List

#### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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# 7.0 TEST RESULTS

## 7.1 Summary

 Company Name:
 Apple Inc.

 FCC ID:
 BCGA2759

 IC:
 579C-A2759

FCC Classification: 15E 6GHz Low Power Dual Client (6CD)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049, 15.407(a)(10)	RSS Gen [6.7], RSS-248 [4.4]	Occupied Bandwidth/ 26dB Bandwidth	99% of the occupied bandwidth of any channel must be contained within each of its respective U-NII sub bands < 320MHz (5.925 - 7.125GHz)		PASS	Section 7.2
15.407(a)(8)	RSS-248 [4.6.3]	Maximum Power Spectral Density	<-1dBm/MHz e.i.r.p.		PASS	Section 7.4
15.407(a)(8)	RSS-248 [4.6]	Maximum Radiated Output Power	< 24dBm over the frequency band of operation	CONDUCTED	PASS	Section 7.3
15.407(b)(7)	RSS-248 [4.7.2]	In-Band Emissions	EUT must meet the limits detailed in 15.407(b)(7) and RSS-248 [4.7.2]b)		PASS	Section 7.5
15.407(d)(6)	RSS-248 [4.8]	Contention Based Protocol	EUT must detect AWGN signal with 90% (or better) certainty		PASS	Section 7.6
15.407(b)(6)	RSS-248 [4.7.2]	Undesirable Emissions	< -27dBm/MHz e.i.r.p. outside of the 5.925 – 7.125GHz band	RADIATED	PASS	Section 7.7
15.205, 15.209	RSS-248 [4.7]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	RADIATED	PASS	Section 7.7, 7.8
15.407(b)(8)	RSS-248 [4.7]	AC Conducted Emissions (150kHz – 30MHz)	< FCC 15.207 limits	LINE CONDUCTED	PASS	Section 7.9

#### **Table 7-1. Summary of Test Results**

#### Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element EMC Software Tool v1.2.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 1.3.2.

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# 7.2 26dB & 99% Bandwidth Measurement – 802.11ax OFDMA §2.1049; §15.407; RSS-Gen [6.7]

#### **Test Overview and Limit**

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

#### **Test Procedure Used**

ANSI C63.10-2013 – Section 12.4 KDB 789033 D02 v02r01 – Section C

#### **Test Settings**

- 1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = approximately 1% of the emission bandwidth
- 3.  $VBW > 3 \times RBW$
- 4. Detector = Peak
- 5. Trace mode = max hold

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

#### **Test Notes**

- 1. All antenna configurations and data rates were investigated and only the worst case are reported.
- 2. All RU's were investigated and only worst case partially-loaded and fully-loaded RU's were reported.
- 3. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel bandwidth plots have been reported.

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# 7.2.1 Antenna WF5t 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
	5955 5955	1	ax (20MHz) ax (20MHz)	26 26	0 4	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.39 17.41	20.06 19.06	320 320	Pass Pass
	5955 6175	1 45	ax (20MHz) ax (20MHz)	26 26	8 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.64 18.23	20.49 19.45	320 320	Pass Pass
	6175	45	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.12	18.17	320	Pass
	6175 6415	45 93	ax (20MHz) ax (20MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.34 18.33	19.58 19.82	320 320	Pass Pass
	6415	93	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.43	19.19	320	Pass
	6415 5965	93 3	ax (20MHz) ax (40MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.61 18.56	20.46 20.73	320 320	Pass Pass
	5965 5965	3	ax (40MHz) ax (40MHz)	26 26	8 17	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.56 18.36	21.37 20.23	320 320	Pass Pass
	6165	43	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.47	20.27	320	Pass
	6165 6165	43	ax (40MHz) ax (40MHz)	26 26	8 17	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.55 18.43	21.28	320 320	Pass Pass
	6405	91	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.44	20.51	320	Pass
d S	6405 6405	91 91	ax (40MHz) ax (40MHz)	26 26	8 17	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.54 18.36	21.81 20.26	320 320	Pass Pass
Band 5	5985 5985	7	ax (80MHz) ax (80MHz)	26 26	0 18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.10 37.69	19.61 39.37	320 320	Pass Pass
	5985	7	ax (80MHz)	26	36	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.57	20.42	320	Pass
	6145 6145	39 39	ax (80MHz) ax (80MHz)	26 26	0 18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.18 37.78	19.54 39.87	320 320	Pass Pass
	6145	39	ax (80MHz)	26	36	12.5/14.7 (MCS11)	18.70	20.55	320	Pass
	6385 6385	87 87	ax (80MHz) ax (80MHz)	26 26	18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.12 37.73	19.60 39.60	320 320	Pass Pass
	6385	87	ax (80MHz)	26	36	12.5/14.7 (MCS11)	18.70	20.76	320	Pass
	6025 6025	15 15	ax (160MHz) ax (160MHz)	26 26	0 18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.29 40.71	21.09 41.24	320 320	Pass Pass
	6025	15	ax (160MHz)	26	36	12.5/14.7 (MCS11)	19.88	22.63	320	Pass
	6185 6185	47 47	ax (160MHz) ax (160MHz)	26 26	0 18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.46 20.05	20.56 23.06	320 320	Pass Pass
	6185	47	ax (160MHz)	26	36	12.5/14.7 (MCS11)	19.89	21.66	320	Pass
	6345 6345	79 79	ax (160MHz) ax (160MHz)	26 26	0 18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.81 41.70	20.90 42.39	320 320	Pass Pass
	6345 6435	79 97	ax (160MHz) ax (20MHz)	26 26	36 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.82 18.36	22.81 19.89	320 320	Pass Pass
	6435	97	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.45	19.28	320	Pass
	6435 6475	97 105	ax (20MHz) ax (20MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.69 18.40	20.45 19.93	320 320	Pass Pass
	6475	105	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.46	19.30	320	Pass
	6475 6515	105 113	ax (20MHz) ax (20MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.66 18.36	20.44 19.87	320 320	Pass Pass
	6515	113	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.45	19.35	320	Pass
	6515 6445	113 99	ax (20MHz) ax (40MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.62 18.47	20.60 20.36	320 320	Pass Pass
9	6445 6445	99 99	ax (40MHz) ax (40MHz)	26	8 17	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.95 18.34	22.65 20.25	320 320	Pass Pass
Band (	6485	107	ax (40MHz)	26 26	0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.50	20.25	320	Pass
	6485 6485	107 107	ax (40MHz) ax (40MHz)	26 26	8 17	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	17.63 18.34	19.35 20.12	320 320	Pass Pass
	6525	115	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.48	20.64	320	Pass
	6525 6525	115 115	ax (40MHz) ax (40MHz)	26 26	8 17	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	20.00 18.36	21.93 20.01	320 320	Pass Pass
	6465	103	ax (80Mhz)	26	0	12.5/14.7 (MCS11)	18.14	19.55	320	Pass
	6465 6465	103 103	ax (80Mhz) ax (80Mhz)	26 26	18 36	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	37.77 18.76	39.78 20.79	320 320	Pass Pass
	6505	111	ax (160MHz)	26	0	12.5/14.7 (MCS11)	18.72	20.93	320	Pass
	6505 6505	111 111	ax (160MHz) ax (160MHz)	26 26	18 36	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	20.03 19.93	22.34 22.09	320 320	Pass Pass
	6535	117	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.35 17.46	19.82	320	Pass
	6535 6535	117 117	ax (20MHz) ax (20MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	17.46 18.62	19.22 20.40	320 320	Pass Pass
	6695	149 149	ax (20MHz)	26	0 4	12.5/14.7 (MCS11)	18.35	19.99	320	Pass
	6695 6695	149	ax (20MHz) ax (20MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	17.46 18.61	19.46 20.49	320 320	Pass Pass
	6875 6875	185 185	ax (20MHz) ax (20MHz)	26 26	0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.37 17.48	19.94 19.34	320 320	Pass Pass
	6875	185	ax (20MHz)	26	8	12.5/14.7 (MCS11)	18.63	20.52	320	Pass
	6565 6565	123 123	ax (40MHz) ax (40MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.57 19.86	20.40	320 320	Pass Pass
	6565	123	ax (40MHz)	26	17	12.5/14.7 (MCS11)	18.31	20.03	320	Pass
	6725 6725	155 155	ax (40MHz) ax (40MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.47 20.02	20.30 21.96	320 320	Pass Pass
	6725	155	ax (40MHz)	26	17	12.5/14.7 (MCS11)	18.31	20.21	320	Pass
Band 7	6845 6845	179 179	ax (40MHz) ax (40MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.54 19.66	20.64 21.43	320 320	Pass Pass
Ba Ba	6845	179	ax (40MHz)	26	17	12.5/14.7 (MCS11)	18.37	20.13	320	Pass
	6545 6545	119 119	ax (80MHz) ax (80MHz)	26 26	18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.12 37.76	19.69 39.65	320 320	Pass Pass
	6545	119	ax (80MHz)	26	36	12.5/14.7 (MCS11)	18.61	20.53	320	Pass
	6705 6705	151 151	ax (80MHz) ax (80MHz)	26 26	0 18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.09 37.68	19.52 39.26	320 320	Pass Pass
	6705 6865	151 183	ax (80MHz) ax (80MHz)	26 26	36 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.73 18.15	20.82 19.60	320 320	Pass Pass
	6865	183	ax (80MHz)	26	18	12.5/14.7 (MCS11)	37.72	39.57	320	Pass
	6865 6665	183 143	ax (80MHz) ax (160MHz)	26 26	36 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.56 18.70	20.66 20.73	320 320	Pass Pass
	6665	143	ax (160MHz)	26	18	12.5/14.7 (MCS11)	19.36	21.44	320	Pass
	6665 6825	143 175	ax (160MHz) ax (160MHz)	26 26	36 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.58 18.44	21.13 21.19	320 320	Pass Pass
	6825	175	ax (160MHz)	26	18	12.5/14.7 (MCS11)	40.08	42.57	320	Pass
	6825 6895	175 189	ax (160MHz) ax (20MHz)	26 26	36 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.79 18.36	22.37 19.96	320 320	Pass Pass
	6895	189	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.36	19.31	320	Pass
	6895 6995	189 209	ax (20MHz) ax (20MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.64 18.34	20.51 19.97	320 320	Pass Pass
	6995	209	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.45	19.39	320	Pass
	6995 6885	209 187	ax (20MHz) ax (40MHz)	26 26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.65 18.48	20.40 20.53	320 320	Pass Pass
	6885	187	ax (40MHz)	26	8	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.84	21.76	320	Pass
	6885 7005	187 211	ax (40MHz) ax (40MHz)	26 26	17 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.36 18.41	20.38	320 320	Pass Pass
	7005	211	ax (40MHz)	26	8	12.5/14.7 (MCS11)	19.79	21.85	320	Pass
Band 8	7005 7085	211 227	ax (40MHz) ax (40MHz)	26 26	17 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.40 18.41	20.41 19.96	320 320	Pass Pass
	7085	227	ax (40MHz)	26	8	12.5/14.7 (MCS11)	19.88	21.92	320	Pass
	7085 6945	227 199	ax (40MHz) ax (80MHz)	26 26	17 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.39 18.14	19.87 19.70	320 320	Pass Pass
	6945	199	ax (80MHz)	26	18	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	37.88	40.01	320	Pass
	6945 7025	199 215	ax (80MHz) ax (80MHz)	26 26	36 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	18.63 18.05	20.30 19.62	320 320	Pass Pass
	7025	215	ax (80MHz)	26	18	12.5/14.7 (MCS11)	37.82	39.80	320	Pass
	7025 6985	215 207	ax (80MHz) ax (160MHz)	26 26	36 0	12.5/14.7 (MCS11) 12.5/14.7 (MCS11)	19.00 18.54	20.52	320 320	Pass Pass

Table 7-2. Conducted Bandwidth Measurements Antenna WF5t (RU26)

FCC ID: BCGA2759 IC: 579C-A2759	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 40 of 222
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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
	5955	1	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.08	320	Pass
	6175	45	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.01	21.10	321	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.14	322	Pass
	5965	3	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.95	41.76	323	Pass
	6165	43	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.91	41.51	324	Pass
d 5	6405	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	41.61	325	Pass
Band	5985	7	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.17	81.70	326	Pass
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.27	81.53	327	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.13	82.19	328	Pass
	6025	15	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.51	166.76	329	Pass
	6185	47	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.89	168.71	330	Pass
	6345	79	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.45	167.15	331	Pass
	6435	97	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	21.38	332	Pass
	6475	105	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.24	333	Pass
	6515	113	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.23	334	Pass
9 p	6445	99	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.96	41.88	335	Pass
Band 6	6485	107	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.01	41.85	336	Pass
_	6525	115	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.96	42.01	337	Pass
	6465	103	ax (80Mhz)	996	67	510.4/600.5 (MCS11)	77.18	82.09	338	Pass
	6505	111	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.70	167.65	339	Pass
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.28	340	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.38	341	Pass
	6875	185	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	21.33	342	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	41.86	343	Pass
7	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.04	42.07	344	Pass
Band 7	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.95	42.02	345	Pass
ä	6545	119	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.15	82.04	347	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.15	82.04	350	Pass
	6865	183	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.10	81.98	353	Pass
	6665	143	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.72	167.37	356	Pass
	6825	175	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.71	167.33	359	Pass
	6895	189	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.28	361	Pass
	6995	209	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.27	362	Pass
	6885	187	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.98	41.77	364	Pass
Band 8	7005	211	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.94	41.81	365	Pass
Ban	7085	227	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.97	41.73	366	Pass
	6945	199	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.16	81.90	367	Pass
	7025	215	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.21	82.15	368	Pass
	6985	207	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.52	166.26	369	Pass

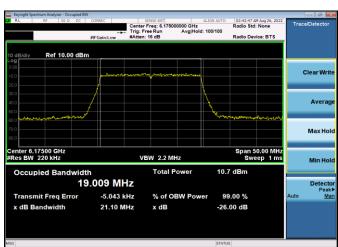
Table 7-3. Conducted Bandwidth Measurements Antenna WF5t (Fully – Loaded RU)

FCC ID: BCGA2759 IC: 579C-A2759	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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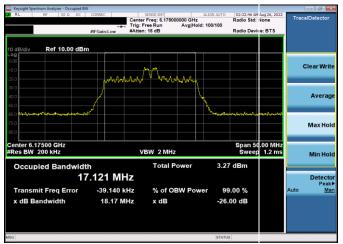




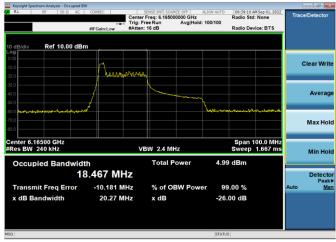
Plot 7-1. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 5) - Ch. 45)



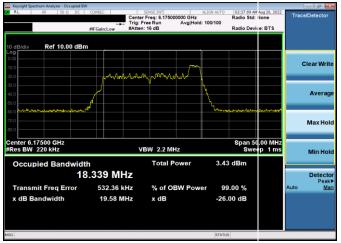
Plot 7-4. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 45)



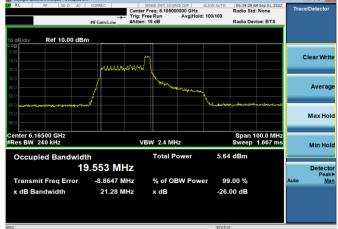
Plot 7-2. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 5) - Ch. 45)



Plot 7-5. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 5) - Ch. 43)



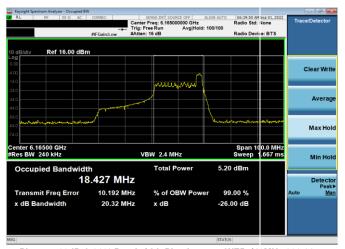
Plot 7-3. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 45)



Plot 7-6. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 43)

FCC ID: BCGA2759 IC: 579C-A2759	element	element MEASUREMENT REPORT (CERTIFICATION)	
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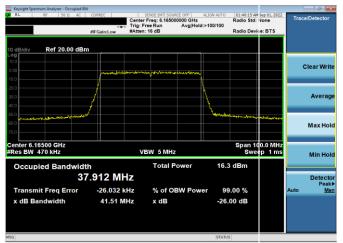




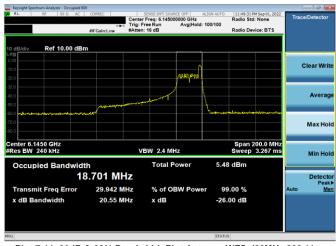
Plot 7-7. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 43)



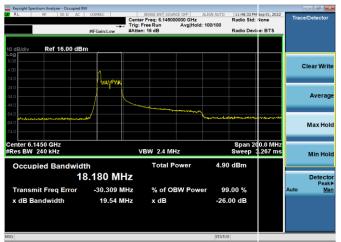
Plot 7-10. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 39)



Plot 7-8. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 43)



Plot 7-11. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 5) - Ch. 39)



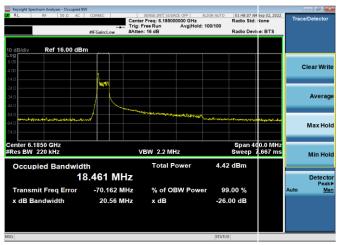
Plot 7-9. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 39)



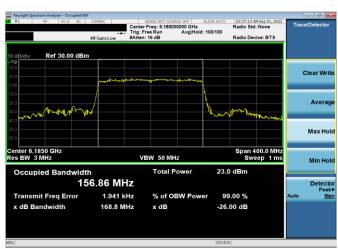
Plot 7-12. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU996 (UNII Band 5) - Ch. 39)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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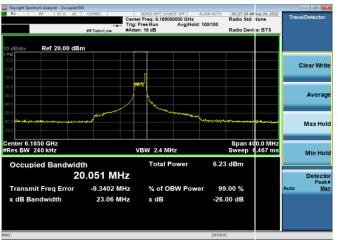




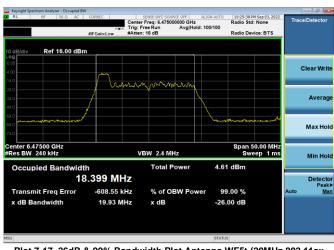
Plot 7-13. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 5) - Ch. 47)



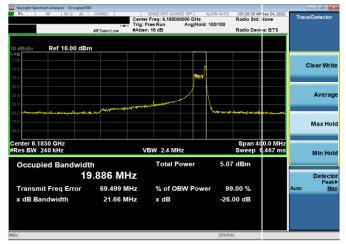
Plot 7-16. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU484 (UNII Band 5) – Ch. 47)



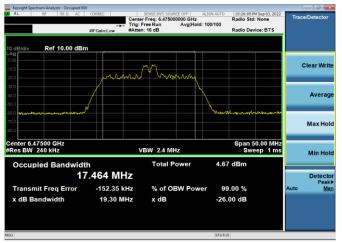
Plot 7-14. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 47)



Plot 7-17. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 105)



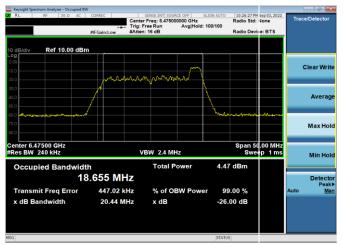
Plot 7-15. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 5) - Ch. 47)



Plot 7-18. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 105)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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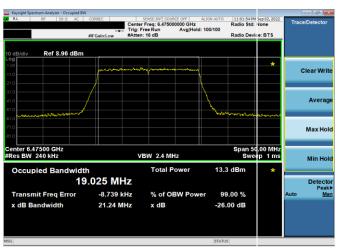




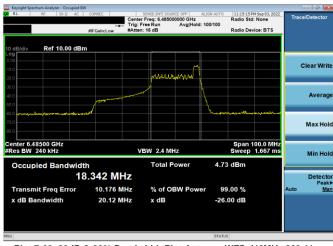
Plot 7-19. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 6) - Ch. 105)



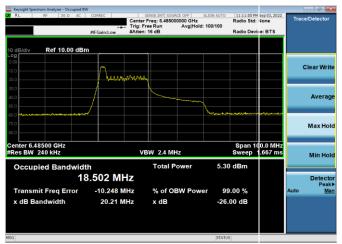
Plot 7-22. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 107)



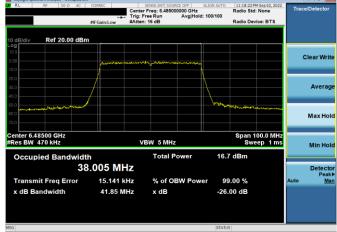
Plot 7-20. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU242 (UNII Band 6) - Ch. 105)



Plot 7-23. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 6) - Ch. 107)



Plot 7-21. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 6) - Ch. 107)



Plot 7-24. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU484 (UNII Band 6) - Ch. 107)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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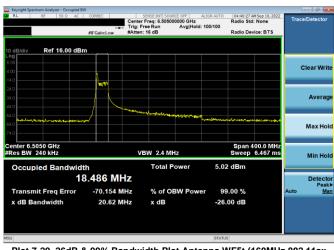
Plot 7-25. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 6) - Ch. 103)



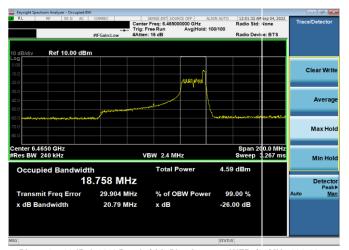
Plot 7-28. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU996 (UNII Band 6) - Ch. 103)



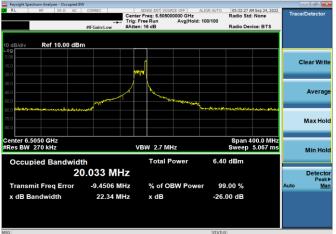
Plot 7-26. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 6) - Ch. 103)



Plot 7-29. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 6) - Ch. 111)



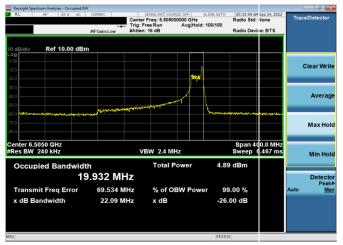
Plot 7-27. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



Plot 7-30. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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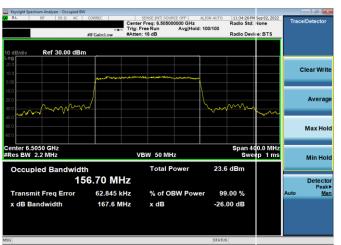




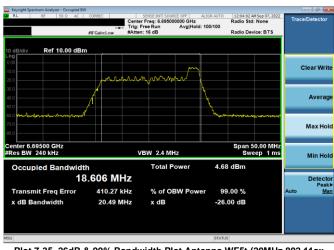
Plot 7-31. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 6) - Ch. 111)



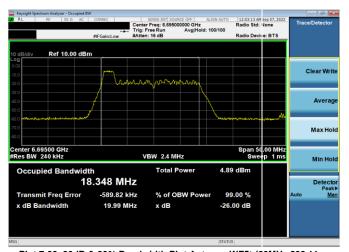
Plot 7-34. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



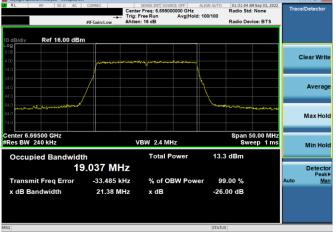
Plot 7-32. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU484 (UNII Band 6) - Ch. 111)



Plot 7-35. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



Plot 7-33. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



Plot 7-36. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU242 (UNII Band 7) - Ch. 149)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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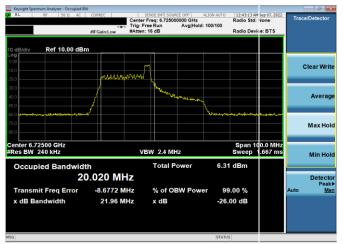




Plot 7-37. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 7) - Ch. 155)



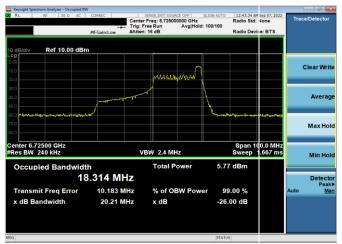
Plot 7-40. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 155)



Plot 7-38. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 155)



Plot 7-41. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 151)



Plot 7-39. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 7) - Ch. 155)



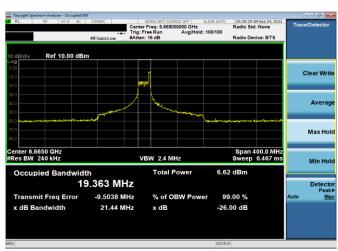
Plot 7-42. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 7) - Ch. 151)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
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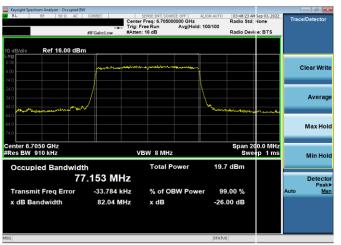




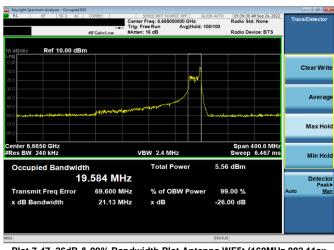
Plot 7-43. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 151)



Plot 7-46. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



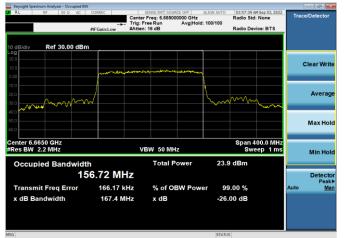
Plot 7-44. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU996 (UNII Band 7) - Ch. 151)



Plot 7-47. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 7) - Ch. 143)



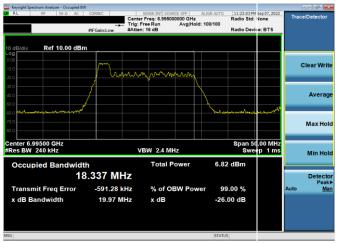
Plot 7-45. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



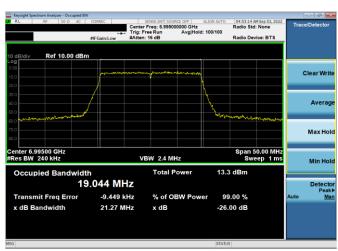
Plot 7-48. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU484 (UNII Band 7) - Ch. 143)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	D 07 -4 000
1C2205090024-12-R3.BCG	05/27/2022 - 9/26/2022	Tablet Device	Page 27 of 323





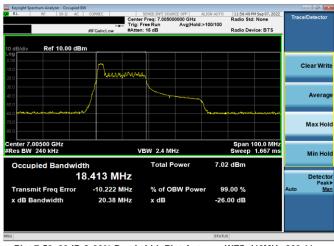
Plot 7-49. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 8) - Ch. 209)



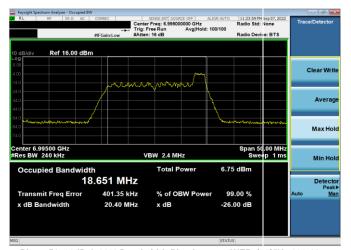
Plot 7-52. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU242 (UNII Band 8) - Ch. 209)



Plot 7-50. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 8) - Ch. 209)



Plot 7-53. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 8) - Ch. 211)



Plot 7-51. 26dB & 99% Bandwidth Plot Antenna WF5t (20MHz 802.11ax RU26 (UNII Band 8) – Ch. 209)



Plot 7-54. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 8) - Ch. 211)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Daga 20 of 222
1C2205090024-12-R3.BCG	05/27/2022 - 9/26/2022	Tablet Device	Page 28 of 323

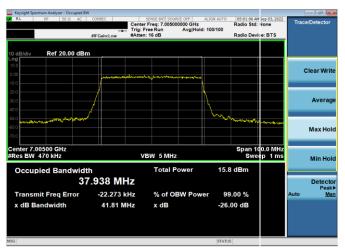




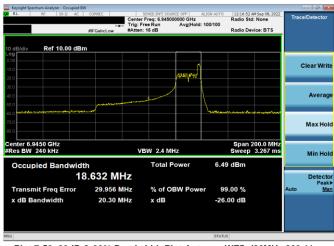
Plot 7-55. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU26 (UNII Band 8) - Ch. 211)



Plot 7-58. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 8) – Ch. 199)



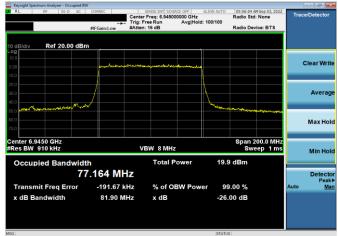
Plot 7-56. 26dB & 99% Bandwidth Plot Antenna WF5t (40MHz 802.11ax RU484 (UNII Band 8) - Ch. 211)



Plot 7-59. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 8) - Ch. 199)



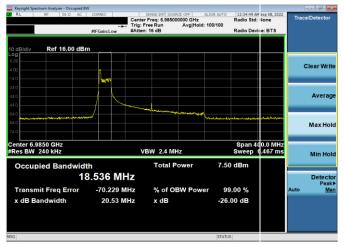
Plot 7-57. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU26 (UNII Band 8) - Ch. 199)



Plot 7-60. 26dB & 99% Bandwidth Plot Antenna WF5t (80MHz 802.11ax RU996 (UNII Band 8) - Ch. 199)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dags 20 of 222
1C2205090024-12-R3.BCG	05/27/2022 - 9/26/2022	Tablet Device	Page 29 of 323

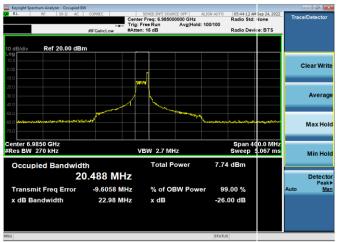




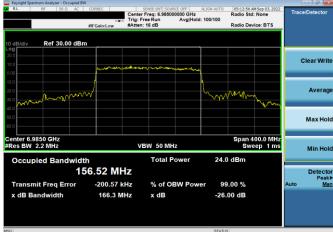
Plot 7-61. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 8) - Ch. 207)



Plot 7-63. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 8) - Ch. 207)



Plot 7-62. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU26 (UNII Band 8) - Ch. 207)



Plot 7-64. 26dB & 99% Bandwidth Plot Antenna WF5t (160MHz 802.11ax RU484 (UNII Band 8) - Ch. 207)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 20 of 222
1C2205090024-12-R3.BCG	05/27/2022 - 9/26/2022	Tablet Device	Page 30 of 323



# 7.2.2 Antenna WF5b 26dB & 99% Bandwidth Measurements

905 1   a   2000    20   0   12   24   24   25   25   10   10   10   10   10   10   10   1		Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
19											Pass Pass
## 1972   6.5   AL (1990)   2.8   A.   \$1,544.7 [MOS1]   \$1,52.9   \$1,53.9   \$30.0   \$20.0   \$							12.5/14.7 (MCS11)				Pass Pass
Page			45								Pass
Page   1985   39   86   1980   28   4   32   52   57   1980   29   20   20   20   20   20   20   2											Pass Pass
1962   3		6415	93	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.42	19.25	320	Pass
986 3 3 Re (60040) 25 R 8 23/47/R/SS[1] 58 R 2 12 8 D 30 D											Pass Pass
Section   Color   Co		5965	3	ax (40MHz)	26	8	12.5/14.7 (MCS11)	19.46	21.80	320	Pass
The color											Pass Pass
Page		6165	43	ax (40MHz)	26	8	12.5/14.7 (MCS11)	17.70	19.32	320	Pass
8											Pass Pass
986 7 A MISSINGHI 250 38 D. 25/41/MCS131 32.72 395.44 300 1965 77 A MISSINGH 250 38 D. 25/41/MCS131 38.50 1962 70.22 100 1965 100		6405	91	ax (40MHz)	26	8	12.5/14.7 (MCS11)	19.60	21.00	320	Pass
986 7 A MISSINGHI 250 38 D. 25/41/MCS131 32.72 395.44 300 1965 77 A MISSINGH 250 38 D. 25/41/MCS131 38.50 1962 70.22 100 1965 100	gand										Pass Pass
Best   39   As (1900/40)   26   18   12.5/47   MCASSIS   18.00   39.61   300	_	5985	7	ax (80MHz)	26	18	12.5/14.7 (MCS11)	37.73	39.64	320	Pass
Col.   20   Act   Develope   20   18   12   12   14   17   17   18   18   18   12   10   10   10   10   10   10   10											Pass Pass
Bigs							12.5/14.7 (MCS11)				Pass
Big   FT   As (CORNOL)   25   30   32.5/147 (MCSS13)   18.76   30.04   30.04   30.04   30.04   30.04   30.04   30.04   30.05   30.05   31.05											Pass Pass
Page											Pass
Col.   15											Pass Pass
Bellio   47   M.   (1900/94)   26   0   25/947 (MCS13)   18.00   20.48   320   18.00   18.00   19.00							12.5/14.7 (MCS11)				Pass
18											Pass Pass
6451 79 at (1500-bet) 26 10 32.5/457 (MSSSSS) 330 40.59 320 6455 79 at (1500-bet) 26 13 32.5/457 (MSSSSS) 330 40.59 320 6455 79 at (1500-bet) 26 36 32.5/457 (MSSSSS) 330 31 22.21 320 6455 79 at (1500-bet) 26 36 32.5/457 (MSSSSS) 34 35 31 35 31 322 320 320 6455 79 at (1500-bet) 26 36 32.5/457 (MSSSSS) 34 35 31 35 31 320 320 320 320 320 320 320 320 320 320											Pass Pass
0455 79 ax (1600Mel) 26 138 12.5/147 (MCSS11) 39.08 40.09 320 320 46.05 37 ax (1600Mel) 26 32 12.5/147 (MCSS11) 39.08 40.09 320 40.01 32.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5 4		6345	79	ax (160MHz)	26	0	12.5/14.7 (MCS11)	18.84	20.53	320	Pass
6455 97 ac (2004/01) 26 0 32.5/14.7 (MCS11) 18.8 19.96 320 (6451 97 ac (2004/01) 26 4 32.5/14.7 (MCS11) 17.6 at 19.27 320 (6451 97 ac (2004/01) 26 0 8 32.5/14.7 (MCS11) 18.8 3 19.92 320 (6475 10.5 ac (2004/01) 26 0 12.5/14.7 (MCS11) 18.8 3 19.92 320 (6475 10.5 ac (2004/01) 26 0 12.5/14.7 (MCS11) 18.8 3 19.92 320 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 3 19.92 320 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 3 19.92 320 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 3 19.92 320 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 3 19.92 320 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 3 10.0 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6475 10.5 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.9 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12.5/14.7 (MCS11) 18.8 6 20.4 3 10.0 (6485 10.0 ac (2004/01) 26 1 12							12.5/14.7 (MCS11)				Pass Pass
6453 97 As (20040) 26 B 125/147 [MCS13] 18.80 20.38 30 30 6475 105 As (20040) 26 C 125/147 [MCS13] 18.30 19.92 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 18.20 19.23 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 18.27 20.42 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 18.27 20.42 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 17.20 19.23 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 17.20 19.23 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 17.20 19.24 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 17.20 19.24 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 17.20 19.24 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 17.20 19.24 30 0 6475 105 As (20040) 26 B 125/147 [MCS13] 18.20 19.24 30 0 6475 107 As (200		6435	97	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.38	19.96	320	Pass
6475 195 AK (2004) 26 0 22.5/147/MCS11 1739 1922 320 (6475 165 AK (2004) 26 4 12.5/147/MCS11 1739 1922 320 (6475 165 AK (2004) 26 0 8 12.5/147/MCS11 18.677 20.02 320 (655 113 AK (2004) 26 0 12.5/147/MCS11 18.677 20.02 320 (655 113 AK (2004) 26 0 12.5/147/MCS11 18.677 30.02 320 (655 113 AK (2004) 26 0 12.5/147/MCS11 18.677 30.02 320 (655 113 AK (2004) 26 0 12.5/147/MCS11 18.67 30.02 320 (655 113 AK (2004) 26 0 12.5/147/MCS11 18.67 30.02 320 (655 113 AK (2004) 26 0 12.5/147/MCS11 18.69 30.02 320 (655 113 AK (2004) 26 12 12.5/147/MCS11 18.69 30.02 320 (655 113 AK (2004) 26 12 12.5/147/MCS11 18.69 20.02 320 (655 113 AK (2004) 26 12 12.5/147/MCS11 18.69 20.02 320 (655 113 AK (2004) 26 12 12.5/147/MCS11 18.69 20.02 320 (655 113 AK (2004) 26 12 12.5/147/MCS11 18.60 (655 113 AK (2004) 26 12 12.5/147/M											Pass
Page		6475	105	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.33	19.92	320	Pass Pass
Section   131   131   132   120											Pass Pass
Color		6515	113	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.37	19.84	320	Pass
6455 99 8x (400Mel) 26 0 12.5/14.7 (MCS11) 18.86 20.29 320 6645 99 8x (400Mel) 26 17 12.5/14.7 (MCS11) 18.60 20.29 320 6645 99 8x (400Mel) 26 17 12.5/14.7 (MCS11) 18.60 20.59 320 6645 99 8x (400Mel) 26 17 12.5/14.7 (MCS11) 18.60 20.59 320 6645 107 8x (400Mel) 26 17 12.5/14.7 (MCS11) 18.60 20.43 320 6645 107 8x (400Mel) 26 17 12.5/14.7 (MCS11) 18.60 20.43 320 6645 107 8x (400Mel) 26 17 12.5/14.7 (MCS11) 18.60 20.43 320 6645 107 8x (400Mel) 26 17 12.5/14.7 (MCS11) 18.60 20.43 320 6655 115 8x (400Mel) 26 0 17 12.5/14.7 (MCS11) 18.60 20.43 320 6655 115 8x (400Mel) 26 0 17 12.5/14.7 (MCS11) 18.60 20.43 320 6655 107 8x (400Mel) 26 0 17 12.5/14.7 (MCS11) 18.60 20.50 32 320 6655 107 8x (400Mel) 26 0 12.5/14.7 (MCS11) 18.60 20 32 320 6655 107 8x (400Mel) 26 0 12.5/14.7 (MCS11) 18.60 20 32 320 6655 111 8x (400Mel) 26 0 12.5/14.7 (MCS11) 18.67 20 320 320 6655 111 8x (400Mel) 26 0 12.5/14.7 (MCS11) 18.67 20 320 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.67 20 320 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.77 20.73 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20.73 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 320 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 320 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 20 32 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 20 32 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 22 24 4 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 22 24 4 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 22 24 4 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 20 22 24 4 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 4 19.96 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 4 19.96 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 4 19.96 320 6655 111 8x (400Mel) 26 18 12.5/14.7 (MCS11) 18.70 12.7 (MCS11) 18.70											Pass Pass
645 99 ax (000401) 26 17 21.55/14.7 (MCS11) 18.66 20.59 330 0 645 107 ax (400401) 26 18 11.55/14.7 (MCS11) 18.60 20.59 330 0 6455 107 ax (400401) 26 18 11.55/14.7 (MCS11) 18.60 20.43 330 0 6455 107 ax (400401) 26 17 12.55/14.7 (MCS11) 18.60 20.43 330 0 6455 107 ax (400401) 26 17 12.55/14.7 (MCS11) 18.60 20.43 330 0 6456 108 ax (200401) 26 18 12.55/14.7 (MCS11) 18.60 20.43 330 0 6456 108 ax (200401) 26 18 12.55/14.7 (MCS11) 18.60 20.43 330 0 6456 108 ax (200401) 26 18 18 12.55/14.7 (MCS11) 18.60 20.43 330 0 6456 108 ax (200401) 26 18 18 12.55/14.7 (MCS11) 18.60 20 33 32 0 6456 108 ax (200401) 26 18 18 12.55/14.7 (MCS11) 18.67 20.73 320 0 6456 108 ax (200401) 26 18 18 12.55/14.7 (MCS11) 18.67 20.73 320 0 6556 111 ax (100401) 26 18 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6556 111 ax (100401) 26 18 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6556 111 ax (100401) 26 18 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6556 111 ax (100401) 26 18 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6556 111 ax (100401) 26 18 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6556 111 ax (100401) 26 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6556 111 ax (100401) 26 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6556 111 ax (100401) 26 18 12.55/14.7 (MCS11) 18.70 20.73 320 0 6557 18 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6558 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6559 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6559 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6550 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 ax (200401) 26 18 12.55/14.7 (MCS11) 18.70 320 0 6555 12 a		6445	99	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.49	20.29	320	Pass
6485   1077   ast (400-961)   26   8   12.5/14.7 (MCS11)   19.94   21.93   330     6485   6485   1078   ast (400-961)   26   67   22.5/14.7 (MCS11)   18.86   20.43   330     6525   115   ast (400-961)   26   0   12.5/14.7 (MCS11)   18.86   20.14   320     6525   115   ast (400-961)   26   0   12.5/14.7 (MCS11)   19.85   22.14   320     6525   115   ast (400-961)   26   0   12.5/14.7 (MCS11)   19.85   22.14   320     6525   103   ast (800-961)   26   0   12.5/14.7 (MCS11)   19.85   22.14   320     6626   20.03   ast (800-961)   26   0   12.5/14.7 (MCS11)   19.85   22.21   320     6626   20.03   ast (800-961)   26   38   22.5/14.7 (MCS11)   37.60   29.35   32.0     6626   20.03   ast (800-961)   26   38   22.5/14.7 (MCS11)   37.60   29.35   32.0     6626   103   ast (800-961)   26   38   22.5/14.7 (MCS11)   37.60   20.25   32.0     6626   111   ast (1200-961)   26   30   12.5/14.7 (MCS11)   19.76   20.26   32.0     6626   111   ast (1200-961)   26   4   22.5/14.7 (MCS11)   19.76   20.22   21.74   32.0     6635   117   ast (200-961)   26   4   22.5/14.7 (MCS11)   18.34   19.96   32.0     6635   137   ast (200-961)   26   4   22.5/14.7 (MCS11)   18.34   19.96   32.0     6635   137   ast (200-961)   26   4   22.5/14.7 (MCS11)   18.60   20.56   32.0     6635   130   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.34   19.96   32.0     6635   140   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   140   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   140   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   140   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   140   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   140   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   120   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   120   ast (200-961)   26   4   12.5/14.7 (MCS11)   18.60   20.56   32.0     6635   121   ast (200-961)	9 9										Pass Pass
Color	Ba	6485	107	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.48	20.43	320	Pass
Color											Pass Pass
Color		6525	115	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.46	20.14	320	Pass
6865   1971   as (2000ml)   26   18   12.59467 (MCS11)   18.76   20.93   33.0											Pass Pass
6965   1303   as (80Mmu)   26   36   12.5/14.7 (MCS11)   18.73   20.73   320											Pass
Control   111   as							12.5/14.7 (MCS11) 12.5/14.7 (MCS11)				Pass Pass
Content   Cont							12.5/14.7 (MCS11)				Pass
Fig.   17											Pass Pass
Color											Pass Pass
Fig.   1-12		6535	117	ax (20MHz)	26	8	12.5/14.7 (MCS11)	18.60	20.56	320	Pass
Fig.   1-10											Pass Pass
Company   Comp		6695	149	ax (20MHz)	26	8	12.5/14.7 (MCS11)	18.61	20.43	320	Pass
Company   Comp											Pass Pass
Company   Comp		6875	185	ax (20MHz)	26	8	12.5/14.7 (MCS11)	18.67	20.54	320	Pass
Control   Cont											Pass Pass
Page   155		6565	123	ax (40MHz)	26	17	12.5/14.7 (MCS11)	18.49	20.72	320	Pass
Depth											Pass Pass
Sept   179		6725	155	ax (40MHz)	26	17	12.5/14.7 (MCS11)	18.40	20.28	320	Pass
6655   179   84 (MANNE)   26   17   17   17   17   17   17   17   1	2 pue										Pass Pass
6545   139   x8 (800-64)   26   18   22.5/4.27 (MCS11)   37.95   40.01   320   6565   6545   131   x8 (800-64)   26   6   12.5/4.27 (MCS11)   18.05   19.34   320   6705   151   x8 (800-64)   26   0   12.5/4.27 (MCS11)   18.05   19.34   320   6705   151   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.05   19.34   320   6705   151   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.05   19.34   320   6705   151   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.08   39.94   320   6805   381   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.08   39.94   320   6805   383   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.05   19.35   320   6805   383   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.05   19.35   320   6805   383   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.05   20.35   320   6805   383   x8 (800-64)   26   38   12.5/4.27 (MCS11)   18.05   20.35   320   6805   343   x8 (800-64)   26   36   12.5/4.27 (MCS11)   18.55   20.05   320   6805   343   x8 (800-64)   26   36   12.5/4.27 (MCS11)   18.55   20.05   320   6805   343   x8 (800-64)   26   36   12.5/4.27 (MCS11)   18.05   20.05   320   6805   343   x8 (800-64)   26   36   32.5/4.27 (MCS11)   38.05   20.05   320   6805   343   x8 (800-64)   26   36   32.5/4.27 (MCS11)   38.05   20.05   320   6805   345   x8 (800-64)   26   36   32.5/4.27 (MCS11)   38.05   20.05   320   6805   345   x8 (800-64)   26   36   32.5/4.27 (MCS11)   31.05   20.05   320   6805   345   x8 (800-64)   26   36   32.5/4.27 (MCS11)   31.05   20.05   320   6805   380   x8 (200-64)   26   4   22.5/4.27 (MCS11)   31.05   20.05   320   6805   380   x8 (200-64)   26   4   22.5/4.27 (MCS11)   31.05   20.05   320   6805   380   x8 (200-64)   26   8   22.5/4.27 (MCS11)   38.05   20.05   320   6805   380   x8 (200-64)   26   8   22.5/4.27 (MCS11)   38.05   20.05   320   6805   380   x8 (200-64)   26   8   22.5/4.27 (MCS11)   38.05   20.05   320   6805   320	ď	6845	179	ax (40MHz)	26	17	12.5/14.7 (MCS11)	18.40	20.65	320	Pass
CS-SS   139 at (SEM-Net)   26   36   12.5/14.7 (MCS11)   18.79   20.66   320											Pass Pass
6705   151   at (800-60)   26   18   21.5/14.7 (MCS11)   37.85   39.94   320   6805   183   at (800-60)   26   0   12.5/14.7 (MCS11)   18.68   20.38   320   6805   183   at (800-60)   26   0   12.5/14.7 (MCS11)   18.15   19.76   320   6805   183   at (800-60)   26   36   12.5/14.7 (MCS11)   18.15   19.76   320   6805   183   at (800-60)   26   36   12.5/14.7 (MCS11)   18.55   20.61   320   6805   183   at (800-60)   26   36   12.5/14.7 (MCS11)   18.65   20.63   320   6805   183   at (800-60)   26   36   12.5/14.7 (MCS11)   18.65   20.63   320   6805   183   at (800-60)   26   36   12.5/14.7 (MCS11)   18.65   20.63   320   6805   183   at (800-60)   26   38   12.5/14.7 (MCS11)   19.87   23.17   320   6805   184   at (1800-60)   26   38   12.5/14.7 (MCS11)   19.87   23.17   320   6805   184   at (1800-60)   26   30   12.5/14.7 (MCS11)   19.87   23.17   320   6825   175   at (1800-60)   26   30   12.5/14.7 (MCS11)   18.60   20.66   320   6825   175   at (1800-60)   26   36   12.5/14.7 (MCS11)   18.60   20.66   320   6825   189   at (200-60)   26   36   12.5/14.7 (MCS11)   19.74   22.07   320   6826   389   at (200-60)   26   4   12.5/14.7 (MCS11)   19.74   20.07   320   6828   389   at (200-60)   26   4   12.5/14.7 (MCS11)   18.39   19.98   320   6829   300   at (200-60)   26   4   12.5/14.7 (MCS11)   18.30   19.30   320   6829   300   at (200-60)   26   4   12.5/14.7 (MCS11)   18.61   20.50   320   6829   300   at (200-60)   26   4   12.5/14.7 (MCS11)   18.63   20.50   320   6820   318   at (200-60)   26   4   12.5/14.7 (MCS11)   18.64   20.50   320   6830   318   at (200-60)   26   5   4   12.5/14.7 (MCS11)   18.64   20.50   320   6830   318   at (200-60)   26   5   8   12.5/14.7 (MCS11)   18.64   20.50   320   6831   318   at (200-60)   26   8   12.5/14.7 (MCS11)   18.64   20.50   320   6832   318   at (200-60)   26   8   12.5/14.7 (MCS11)   18.64   20.50   320   6833   318   at (200-60)   26   8   12.5/14.7 (MCS11)   18.64   20.50   320   6833   318   at (200-60)   26   8   12.5/14.7 (MCS11)   18.64   20.50		6545	119	ax (80MHz)	26	36	12.5/14.7 (MCS11)	18.79	20.66	320	Pass Pass
6865   383   as (800-60)   26   0   22.5/4.7 (MCS11)   18.15   19.76   320   6865   6865   383   as (800-60)   26   36   22.5/4.7 (MCS11)   18.59   39.25   32.2   6865   6865   481   as (100-60)   26   36   22.5/4.7 (MCS11)   18.65   20.63   320   6865   6865   441   as (100-60)   26   38   22.5/4.7 (MCS11)   18.65   20.63   320   6865   443   as (100-60)   26   38   22.5/4.7 (MCS11)   19.87   22.17   330   6865   443   as (100-60)   26   38   22.5/4.7 (MCS11)   19.87   22.17   330   6855   443   as (100-60)   26   36   22.5/4.7 (MCS11)   19.87   22.17   330   6855   375   as (100-60)   26   26   36   22.5/4.7 (MCS11)   19.87   22.17   330   6855   375   as (100-60)   26   26   36   22.5/4.7 (MCS11)   19.87   22.17   320   6825   17.5   as (100-60)   26   26   36   22.5/4.7 (MCS11)   18.60   20.46   320   6825   17.5   as (100-60)   26   26   36   22.5/4.7 (MCS11)   19.74   20.77   320   6895   380   as (200-60)   26   26   36   22.5/4.7 (MCS11)   19.74   22.07   320   6895   380   as (200-60)   26   26   26   26.5/4.7 (MCS11)   19.74   20.75   320   6895   380   as (200-60)   26   26   26   26.5/4.7 (MCS11)   18.60   20.5		6705	151	ax (80MHz)	26	18	12.5/14.7 (MCS11)	37.85	39.94	320	Pass
6865   1831   38 (800-60)   26   18   12.5/14.7 (MCS11)   37.59   39.25   320     6865   1841   38 (100-60)   26   26   12.5/14.7 (MCS11)   18.66   20.61   320     6865   1441   38 (100-60)   26   0   12.5/14.7 (MCS11)   18.57   23.17     6865   1441   38 (100-60)   26   0   12.5/14.7 (MCS11)   18.57   23.17   320     6865   1441   38 (100-60)   26   36   12.5/14.7 (MCS11)   18.67   23.20     6865   1441   38 (100-60)   26   36   12.5/14.7 (MCS11)   19.07   22.66   320     6825   177   38 (100-60)   26   36   12.5/14.7 (MCS11)   19.00   20.66   320     6825   177   38 (100-60)   26   18   12.5/14.7 (MCS11)   19.74   22.07   320     6825   178   38 (100-60)   26   36   12.5/14.7 (MCS11)   19.74   22.07   320     6825   189   38 (100-60)   38   0   12.5/14.7 (MCS11)   18.39   32.20     6825   189   38 (100-60)   38   0   12.5/14.7 (MCS11)   18.39   32.20     6826   380   38 (100-60)   38   0   12.5/14.7 (MCS11)   18.39   32.20     6826   380   38 (100-60)   38   0   12.5/14.7 (MCS11)   18.39   32.20     6826   387   38 (100-60)   38   0   12.5/14.7 (MCS11)   18.39   32.20     6827   387   38 (100-60)   38   0   12.5/14.7 (MCS11)   18.39   32.20     6828   387   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     6829   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     6885   387   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     6885   387   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     6885   387   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     6885   387   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     6885   387   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     6885   387   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     7005   211   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     7005   212   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.00     7005   212   38 (100-60)   26   8   12.5/14.7 (MCS11)   18.60   2											Pass Pass
6665		6865	183	ax (80MHz)	26	18	12.5/14.7 (MCS11)	37.59	39.25	320	Pass
6665											Pass Pass
6825   175   ax		6665	143	ax (160MHz)	26	18	12.5/14.7 (MCS11)	19.87	23.17	320	Pass
6825   175   ax     (1500MHz)   26   38   12.5/14.7 (MCS11)   13.74   20.07   32.0     6895   1890   ax   (200MHz)   26   0   12.5/14.7 (MCS11)   13.74   20.07   32.0     6895   1890   ax   (200MHz)   26   0   12.5/14.7 (MCS11)   18.8 39   19.98   32.0     6895   1890   ax   (200MHz)   26   0   12.5/14.7 (MCS11)   18.8 39   19.98   32.0     6895   1890   ax   (200MHz)   26   8   12.5/14.7 (MCS11)   18.6 1   20.50   32.0     6895   200   ax   (200MHz)   26   8   12.5/14.7 (MCS11)   18.6 5   20.0 1   32.0     6895   200   ax   (200MHz)   26   8   12.5/14.7 (MCS11)   18.6 5   20.0 1   32.0     6895   200   ax   (200MHz)   26   4   12.5/14.7 (MCS11)   18.6 6   20.38   32.0     6895   320   ax   (200MHz)   26   4   12.5/14.7 (MCS11)   18.6 6   20.38   32.0     6895   327   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 6   20.38   32.0     6895   327   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 6   20.38   32.0     6895   327   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 0   20.30   32.0     7005   211   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.6 0   20.33   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.6 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.6 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.6 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.6 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.6 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.6 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 0   20.30   32.0     7005   212   ax   (400MHz)   26   8   12.5/14.7 (MCS11)   18.0 0   20.30   32.0     7005   212   ax		6825									Pass Pass
6895   1890   ax (2004bit)   26 0   12.5/14.7 (MCS11)   18.39   19.98   32.0     6895   1890   ax (2004bit)   26   4   12.5/14.7 (MCS11)   13.43   19.33   32.0     6895   1890   ax (2004bit)   26   8   12.5/14.7 (MCS11)   13.61   20.50   32.0     6995   2000   ax (2004bit)   26   8   12.5/14.7 (MCS11)   18.61   20.50   32.0     6995   2000   ax (2004bit)   26   4   12.5/14.7 (MCS11)   13.66   20.33   32.0     6995   2000   ax (2004bit)   26   4   12.5/14.7 (MCS11)   17.44   19.27   32.0     6995   2000   ax (2004bit)   26   4   12.5/14.7 (MCS11)   18.64   20.38   32.0     6995   3200   ax (2004bit)   26   5   12.5/14.7 (MCS11)   18.64   20.38   32.0     6995   320   ax (2004bit)   26   6   12.5/14.7 (MCS11)   18.68   20.57   32.0     6985   1877   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.68   20.57   32.0     6885   1877   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.38   20.044   32.0     7005   211   ax (4004bit)   26   6   12.5/14.7 (MCS11)   19.39   21.53   32.0     7005   211   ax (4004bit)   26   6   12.5/14.7 (MCS11)   19.39   21.53   32.0     7005   221   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.44   20.60   32.0     7005   227   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.44   20.60   32.0     7005   227   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.49   20.60   32.0     7005   227   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.49   20.60   32.0     7005   227   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.29   19.87   32.0     6495   1999   ax (6004bit)   26   6   12.5/14.7 (MCS11)   18.29   19.87   32.0     6495   1999   ax (6004bit)   26   6   12.5/14.7 (MCS11)   18.04   19.57   32.0     7005   221   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.04   20.50   32.0     7005   227   ax (4004bit)   26   6   12.5/14.7 (MCS11)   18.29   19.87   32.0     6495   1999   ax (6004bit)   26   6   12.5/14.7 (MCS11)   18.04   20.50   32.0     7005   228   ax (6004bit)   26   6   12.5/14.7 (MCS11)   18.04   20.50   32.0     7005   228   ax (6004bit)   26   6   6   12.5/14.7 (MCS11)   18.		6825	175	ax (160MHz)	26	18	12.5/14.7 (MCS11)	41.00	41.90	320	Pass
6895   1899 at (2004bu)   26   4   12.5/14.7 (MCS11)   12.43   19.33   320     6895   1898 at (2004bu)   26   8   12.5/14.7 (MCS11)   18.61   20.50   320     6895   2009 at (2004bu)   26   0   12.5/14.7 (MCS11)   18.35   20.01   320     6895   2009 at (2004bu)   26   4   12.5/14.7 (MCS11)   18.35   20.01   320     6895   2709 at (2004bu)   26   8   12.5/14.7 (MCS11)   18.64   20.38   320     6895   277 at (4004bu)   26   8   12.5/14.7 (MCS11)   18.64   20.38   320     6895   1877 at (4004bu)   26   8   12.5/14.7 (MCS11)   18.64   20.37   320     6895   1877 at (4004bu)   26   8   12.5/14.7 (MCS11)   18.30   20.30     6895   1877 at (4004bu)   26   8   12.5/14.7 (MCS11)   18.60   20.30     7005   211 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.60   20.30     7005   211 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.60   20.30     7005   211 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.64   20.35     7005   221 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.64   20.35     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.64   20.35   20.0     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.64   20.35   20.0     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.64   20.35   20.0     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.64   20.35   20.0     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.62   20.35   20.0     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.25   20.0     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.26   20.35   20.0     7005   227 at (4004bu)   26   0   12.5/14.7 (MCS11)   18.27   20.0     6945   1999   at (8004bu)   26   0   12.5/14.7 (MCS11)   18.06   19.57   30.0     7005   225   at (8004bu)   26   0   12.5/14.7 (MCS11)   18.06   19.57   30.0     7005   225   at (8004bu)   26   0   12.5/14.7 (MCS11)   18.06   19.57   30.0     7005   225   at (8004bu)   26   36   12.5/14.7 (MCS11)   18.07   20.0   30.0     7005   225   at (8004bu)   26   36   12.5/14.7 (MCS11)   18.07   20.0   30.0     7005   225   at (8004bu)   26   36											Pass Pass
6995   2099   as (2004bit)   26   0   12.5/14.7 (MCS11)   18.35   20.01   33.0   6995   6099   as (2004bit)   26   4   12.5/14.7 (MCS11)   17.44   19.27   32.0   6995   2099   as (2004bit)   26   8   12.5/14.7 (MCS11)   18.64   20.38   33.0   6885   18.7   as (4004bit)   26   0   12.5/14.7 (MCS11)   18.64   20.38   33.0   6885   18.7   as (4004bit)   26   8   12.5/14.7 (MCS11)   18.64   20.37   33.0   6885   18.7   as (4004bit)   26   8   12.5/14.7 (MCS11)   19.70   21.88   32.0   6885   18.7   as (4004bit)   26   8   12.5/14.7 (MCS11)   18.38   20.044   32.0   7005   211   as (4004bit)   26   0   12.5/14.7 (MCS11)   18.60   20.30   32.0   7005   211   as (4004bit)   26   8   12.5/14.7 (MCS11)   18.60   20.30   32.0   7005   211   as (4004bit)   26   8   12.5/14.7 (MCS11)   18.64   20.55   32.0   7005   227   as (4004bit)   26   12.5/14.7 (MCS11)   18.64   20.05   32.0   7005   227   as (4004bit)   26   8   12.5/14.7 (MCS11)   18.64   20.05   32.0   7005   227   as (4004bit)   26   8   12.5/14.7 (MCS11)   19.05   12.5   12.0		6895	189	ax (20MHz)	26	4	12.5/14.7 (MCS11)	17.43	19.33	320	Pass
6995   2009 at (2004b1)   26   8   12.5/14.7 (MCS11)   18.64   20.38   33.0     6885   1877 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.64   20.38   33.0     6885   1877 at (4004b1)   26   8   12.5/14.7 (MCS11)   19.70   21.83   33.0     6885   1878 at (4004b1)   26   8   12.5/14.7 (MCS11)   19.70   21.83   33.0     7005   211 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.38   20.44   32.0     7005   211 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.60   20.30   33.0     7005   211 at (4004b1)   26   12.5/14.7 (MCS11)   18.64   20.55   33.0     7005   227 at (4004b1)   26   17.7   12.5/14.7 (MCS11)   18.64   20.55   33.0     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.64   20.55   32.0     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.62   21.80     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.65   20.5     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.61   20.5     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.62   19.27   32.0     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.62   19.27   32.0     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.62   19.27   32.0     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.62   19.27   32.0     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.70   20.5   32.0     7005   227 at (4004b1)   26   0   12.5/14.7 (MCS11)   18.70   20.5   32.0     7005   228 at (8004b1)   26   0   12.5/14.7 (MCS11)   18.64   20.5   32.0     7005   229 at (8004b1)   26   0   12.5/14.7 (MCS11)   18.64   20.5   32.0     7005   229 at (8004b1)   26   0   12.5/14.7 (MCS11)   18.70   20.5   32.0     7005   229 at (8004b1)   26   36   12.5/14.7 (MCS11)   18.73   20.6   32.0     7005   229 at (8004b1)   26   36   12.5/14.7 (MCS11)   18.74   20.6   32.0     7005   229 at (8004b1)   26   36   12.5/14.7 (MCS11)   18.74   20.6   32.0		6995	209	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.35	20.01	320	Pass Pass
6885   1877   as (400-64)   26   0   12.5/14.7 (MCS11)   138.48   20.57   33.0   6885   1877   as (400-64)   26   12.5/14.7 (MCS11)   19.70   21.83   32.0   6885   1877   as (400-64)   26   17   12.5/14.7 (MCS11)   18.30   20.44   33.0   70.05   21.1   as (400-64)   26   0   12.5/14.7 (MCS11)   18.80   20.30   33.0   33.0   70.05   21.1   as (400-64)   26   8   12.5/14.7 (MCS11)   19.39   21.53   33.0											Pass Pass
6885   1877   axt (400/401)   26   8   21.5/14.7 (MCS11)   19.70   21.83   330     6885   1877   axt (400/401)   26   17   12.5/14.7 (MCS11)   18.38   20.044   320     7005   211   axt (400/401)   26   0   12.5/14.7 (MCS11)   18.80   20.30   320     7005   211   axt (400/401)   26   17   12.5/14.7 (MCS11)   19.39   21.53   330     7005   221   axt (400/401)   26   17   12.5/14.7 (MCS11)   18.45   20.55   330     7005   227   axt (400/401)   26   0   12.5/14.7 (MCS11)   18.45   20.55   330     7005   227   axt (400/401)   26   0   12.5/14.7 (MCS11)   18.64   20.55   320     7005   227   axt (400/401)   26   8   12.5/14.7 (MCS11)   19.50   19.37     7005   227   axt (400/401)   26   8   12.5/14.7 (MCS11)   19.50   19.37     7005   227   axt (400/401)   26   8   12.5/14.7 (MCS11)   19.50   19.37     7005   227   axt (400/401)   26   8   12.5/14.7 (MCS11)   19.50   19.37     7005   297   axt (400/401)   26   8   12.5/14.7 (MCS11)   19.50   19.37     7005   297   axt (400/401)   26   8   12.5/14.7 (MCS11)   19.50   19.37     7005   297   axt (400/401)   26   18   19.5/14.7 (MCS11)   18.70   20.57     7005   295   axt (800/401)   26   18   12.5/14.7 (MCS11)   18.50   19.57   320     7005   295   axt (800/401)   26   8   12.5/14.7 (MCS11)   18.70   20.57   320     7005   295   axt (800/401)   26   8   12.5/14.7 (MCS11)   18.70   20.67   320     7005   295   axt (800/401)   26   8   12.5/14.7 (MCS11)   18.70   20.67   320     7005   295   axt (800/401)   26   8   12.5/14.7 (MCS11)   18.70   20.67   320     7005   295   axt (800/401)   26   8   12.5/14.7 (MCS11)   18.70   20.67   320     7005   295   axt (800/401)   26   30   12.5/14.7 (MCS11)   18.70   20.67   320     7005   205   axt (800/401)   26   30   12.5/14.7 (MCS11)   18.70   20.67   320		6885	187	ax (40MHz)	26		12.5/14.7 (MCS11)				Pass
NOS   211   ax (400-81)   25   0   0   2.55/4.7 (MCS11)   18.60   20.30   320   7005   2211   ax (400-81)   25   8   12.55/4.7 (MCS11)   13.93   21.53   320   7005   2211   ax (400-81)   25   37   12.57/4.7 (MCS11)   13.84   20.55   320   7005   227   ax (400-81)   26   8   12.57/4.7 (MCS11)   18.45   20.55   320   7005   227   ax (400-81)   26   8   12.57/4.7 (MCS11)   18.44   20.55   320   7005   227   ax (400-81)   26   8   12.57/4.7 (MCS11)   18.61   21.40   320		6885	187	ax (40MHz)	26	8	12.5/14.7 (MCS11)	19.70	21.83	320	Pass Pass
7005   211 at (4004et)   26 8   12.5/4.7 (MCS11)   19.39   21.53   320     7005   221 at (4004et)   26   17   12.5/4.7 (MCS11)   18.45   20.55   320     7085   227 at (4004et)   26   0   12.5/4.7 (MCS11)   18.44   20.60   330     7085   227 at (4004et)   26   8   12.5/4.7 (MCS11)   19.61   12.40   320     7085   227 at (4004et)   26   17   12.5/4.7 (MCS11)   19.61   12.40   320     7085   227 at (4004et)   26   17   12.5/4.7 (MCS11)   18.29   19.87   320     6945   199 at (8004et)   26   17   12.5/4.7 (MCS11)   18.20   19.87   320     6945   199 at (8004et)   26   18   12.5/4.7 (MCS11)   18.77   39.41   320     6945   199 at (8004et)   26   18   12.5/4.7 (MCS11)   18.02   19.57   320     7025   225 at (8004et)   26   0   12.5/4.7 (MCS11)   18.04   19.57   320     7025   225 at (8004et)   26   38   12.5/4.7 (MCS11)   18.04   19.57   320     7025   225 at (8004et)   26   38   12.5/4.7 (MCS11)   18.04   320     7025   225 at (8004et)   26   38   12.5/4.7 (MCS11)   18.73   30   0.705   320     7025   225 at (8004et)   26   30   12.5/4.7 (MCS11)   18.73   30   0.705   320     7025   225 at (8004et)   26   30   12.5/4.7 (MCS11)   18.73   30   0.705   320     7025   225 at (8004et)   26   30   12.5/4.7 (MCS11)   18.73   30   0.705   320     7025   225 at (8004et)   26   30   12.5/4.7 (MCS11)   18.73   30   0.705   320     7025   225 at (8004et)   26   30   12.5/4.7 (MCS11)   18.73   30   0.705   320     7025   225 at (8004et)   26   30   12.5/4.7 (MCS11)   18.73   30   0.705   320     7025   225 at (8004et)   26   30   12.5/4.7 (MCS11)   18.73   30   0.705   320		7005	211	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.60	20.30	320	Pass
7085   227   ax (400-64)   26   8   12.5/14.7 [MCS11]   19.61   21.40   330   7085   727   ax (400-64)   26   17   12.5/14.8 [MCS11]   18.29   19.87   330   6945   19.9   ax (800-64)   26   0   12.5/14.7 [MCS11]   18.07   19.38   330   6945   19.9   ax (800-64)   26   38   12.5/14.7 [MCS11]   31.07   19.38   320   6945   19.9   ax (800-64)   26   36   12.5/14.7 [MCS11]   31.07   20.21   20.01				ax (40MHz)			12.5/14.7 (MCS11)	19.39			Pass Pass
7085   227   ax (400404)   26   17   12.5/14.27 (MCS11)   18.29   19.87   32.0   6945   19.9   ax (800404)   26   0   12.5/14.27 (MCS11)   18.07   19.38   33.0   6945   19.9   ax (800404)   26   18   12.5/14.27 (MCS11)   13.73   39.41   32.0   6945   19.9   ax (800404)   26   36   12.5/14.27 (MCS11)   13.73   39.41   32.0   7025   225   ax (800404)   26   0   12.5/14.27 (MCS11)   18.04   19.57   32.0   7025   225   ax (800404)   26   0   12.5/14.27 (MCS11)   37.78   60   40.24   32.0   7025   225   ax (800404)   26   36   12.5/14.27 (MCS11)   37.78   60   40.24   32.0   7025   225   ax (800404)   26   36   12.5/14.27 (MCS11)   18.73   20.67   33.0   6985   20.78   41.06.04   26   26   26   27.5/14.27 (MCS11)   38.73   20.67   33.0   6985   20.78   41.06.04   26   26   27.5/14.27 (MCS11)   38.45   20.35   33.0   33.	Band	7085	227	ax (40MHz)			12.5/14.7 (MCS11)	18.44			Pass
GR45   1599   ax (ROM-Net)   2.55   0   12.5/14.7 (MCS11)   18.07   19.38   32.0   (6845   1599   ax (ROM-Net)   2.56   3.8   12.5/14.7 (MCS11)   37.73   39.41   32.0   (6845   1999   ax (ROM-Net)   2.56   3.5   12.5/14.7 (MCS11)   37.73   39.41   32.0   (70.5   2.15   ax (ROM-Net)   2.56   3.6   12.5/14.7 (MCS11)   18.02   20.52   32.0   (70.5   2.15   ax (ROM-Net)   2.56   3.8   12.5/14.7 (MCS11)   18.04   19.57   33.0   (70.5   2.15   ax (ROM-Net)   2.56   3.8   12.5/14.7 (MCS11)   37.85   40.24   32.0   (70.5   2.15   ax (ROM-Net)   2.56   3.6   22.5/14.7 (MCS11)   18.73   20.67   32.0   (70.5   2.15   ax (ROM-Net)   2.56   3.6   22.5/14.7 (MCS11)   18.73   3.0   (70.5   2.15   ax (ROM-Net)   2.56   3.6   22.5/14.7 (MCS11)   18.73   3.0   (70.5   3.20   3.0											Pass Pass
6945   1599 at (800Met)   26   18   12.5/4.7 (MCS11)   37.73   39.41   320   6945   599 at (800Met)   26   36   12.5/4.7 (MCS11)   18.62   0.55.2   320   7025   225 at (800Met)   26   0.0   12.5/4.7 (MCS11)   18.04   19.57   320   7025   225 at (800Met)   26   18   12.5/4.7 (MCS11)   37.66   0.024   320   7025   225 at (800Met)   26   36   12.5/4.7 (MCS11)   18.73   0.067   320   6985   0.00   at (160Met)   26   0.0   12.5/4.7 (MCS11)   18.73   0.067   320   0.0685   0.00   at (160Met)   26   0.0   12.5/4.7 (MCS11)   18.64   0.035   330		6945	199	ax (80MHz)	26	0	12.5/14.7 (MCS11)	18.07	19.38	320	Pass
7025 225 at (8004et) 26 0 22.5/44.7 (MCS11) 18.04 19.57 320 7025 225 at (8004et) 26 18 12.5/44.7 (MCS11) 27.68 40.04 230 7025 225 at (8004et) 26 36 12.5/44.7 (MCS11) 27.68 40.04 230 20 7025 225 at (8004et) 26 36 12.5/44.7 (MCS11) 18.73 20.67 320 6985 207 at (1004et) 26 0 12.5/44.7 (MCS11) 18.64 20.35 320				ax (80MHz)	26		12.5/14.7 (MCS11)	37.73		320	Pass Pass
7025 215 ax (80MHz) 26 36 12.5/14.7 (MCS11) 18.73 20.67 320 6985 207 ax (160MHz) 26 0 12.5/14.7 (MCS11) 18.45 20.35 320		7025	215	ax (80MHz)	26	0	12.5/14.7 (MCS11)		19.57		Pass
6985 207 ax (160MHz) 26 0 12.5/14.7 (MCS11) 18.45 20.35 320											Pass Pass
6985 207 ax (160MHz) 26 18 12.5/14.7 (MCS11) 20.73 22.91 370			207	ax (160MHz)	26	0	12.5/14.7 (MCS11)	18.45	20.35	320	Pass
6985 207 ax (160MHz) 26 36 12.5/14.7 (MCS11) 20.06 21.84 320					26	18	12 5/14 7 (MCS11)	20.73	22 91	320	Pass

Table 7-4. Conducted Bandwidth Measurements Antenna WF5b (RU26)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogg 24 of 222
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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]	Maximum Bandwidth Limit [MHz]	Pass / Fail
Band 5	5955	1	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.29	320	Pass
	6175	45	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	21.17	321	Pass
	6415	93	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.01	21.06	322	Pass
	5965	3	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.98	42.00	323	Pass
	6165	43	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	41.69	324	Pass
	6405	91	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.93	41.71	325	Pass
	5985	7	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.31	81.96	326	Pass
	6145	39	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.09	82.11	327	Pass
	6385	87	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.11	82.06	328	Pass
	6025	15	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.89	169.05	329	Pass
	6185	47	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.99	168.71	330	Pass
	6345	79	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.64	167.13	331	Pass
Band 6	6435	97	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.30	332	Pass
	6475	105	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.29	333	Pass
	6515	113	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.34	334	Pass
	6445	99	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.97	41.82	335	Pass
	6485	107	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.98	41.96	336	Pass
	6525	115	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	41.78	337	Pass
	6465	103	ax (80Mhz)	996	67	510.4/600.5 (MCS11)	77.20	81.91	338	Pass
	6505	111	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.60	167.52	339	Pass
	6535	117	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.46	340	Pass
	6695	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.33	341	Pass
	6875	185	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.25	342	Pass
	6565	123	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.99	41.79	343	Pass
7	6725	155	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.03	41.79	344	Pass
Band 7	6845	179	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	41.97	345	Pass
ä	6545	119	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.10	81.92	347	Pass
	6705	151	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.09	82.07	350	Pass
	6865	183	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.21	81.93	353	Pass
	6665	143	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.84	167.23	356	Pass
	6825	175	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.98	167.11	359	Pass
	6895	189	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.09	361	Pass
	6995	209	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.40	362	Pass
Band 8	6885	187	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.96	41.96	364	Pass
	7005	211	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	42.04	365	Pass
	7085	227	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.92	41.64	366	Pass
	6945	199	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.12	82.04	367	Pass
	7025	215	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.33	82.03	368	Pass
	6985	207	ax (160MHz)	996	68	1020.8/1201 (MCS11)	156.74	166.19	369	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna WF5b (Fully - Loaded RU)

FCC ID: BCGA2759 IC: 579C-A2759	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogg 22 of 222	
1C2205090024-12-R3.BCG	05/27/2022 - 9/26/2022	Tablet Device	Page 32 of 323	