



MEASUREMENT REPORT
FCC PART 15.247 / ISED RSS-247 WLAN 802.11b/g/n/ax-SU

Applicant Name:

Apple Inc.
 One Apple Park Way
 Cupertino, CA 95014
 United States

Date of Testing:

6/2/2021 - 8/20/2021

Test Site/Location:

PCTEST Lab. Morgan Hill, CA, USA

Test Report Serial No.:

1C2106080049-08.BCG

FCC ID:	BCGA2568
IC:	579C-A2568
APPLICANT:	Apple Inc.

Application Type:

Certification

Model/HVIN:

A2568 (A2569)

EUT Type:

Tablet Device

Frequency Range:

2412 – 2472MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 2

Test Procedure(s):

ANSI C63.10-2013, KDB 558074 D01 v05r02,

KDB 662911 D01 v02r01

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 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

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.



Randy Ortanez
 President

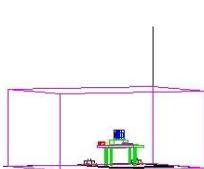
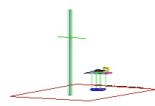


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Mode	Tx Frequency (MHz)	Antenna 3a				Antenna 1a			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)						
802.11g	2412 - 2472	139.316	21.44	433.511	26.37	141.254	21.50	422.669	26.26
802.11n	2412 - 2472	141.254	21.50	452.898	26.56	139.637	21.45	434.510	26.38
802.11ax (SU)	2412 - 2467	123.310	20.91	420.727	26.24	124.738	20.96	416.869	26.20

EUT Overview SISO (Low Data Rate)

Mode	Tx Frequency (MHz)	Antenna 3a				Antenna 1a				CDD			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)										
802.11g	2412 - 2472	108.893	20.37	338.065	25.29	108.143	20.34	351.560	25.46	217.270	23.37	690.240	28.39
802.11n	2412 - 2472	111.686	20.48	492.040	26.92	112.202	20.50	479.733	26.81	223.872	23.50	972.747	29.88
802.11ax (SU)	2412 - 2467	112.202	20.50	447.713	26.51	111.686	20.48	449.780	26.53	223.872	23.50	897.429	29.53

EUT Overview CDD (Low Data Rate)

Mode	Tx Frequency (MHz)	Antenna 3a				Antenna 1a			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)						
802.11g	2412 - 2472	123.027	20.90	452.898	26.56	125.893	21.00	450.817	26.54
802.11n	2412 - 2472	119.399	20.77	475.335	26.77	125.893	21.00	458.142	26.61
802.11ax (SU)	2412 - 2467	110.662	20.44	457.088	26.60	112.202	20.50	399.025	26.01

EUT Overview SISO (Mid Data Rate)

Mode	Tx Frequency (MHz)	Antenna 3a				Antenna 1a				CDD			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)										
802.11g	2412 - 2472	96.161	19.83	426.580	26.30	97.275	19.88	425.598	26.29	193.642	22.87	853.100	29.31
802.11n	2412 - 2472	98.855	19.95	450.817	26.54	100.000	20.00	412.098	26.15	199.067	22.99	862.979	29.36
802.11ax (SU)	2412 - 2467	99.312	19.97	468.813	26.71	97.499	19.89	447.713	26.51	196.789	22.94	916.220	29.62

EUT Overview CDD (Mid Data Rate)

Mode	Tx Frequency (MHz)	Antenna 3a				Antenna 1a			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)						
802.11b	2412 - 2472	125.893	21.00	236.592	23.74	125.893	21.00	237.137	23.75
802.11g	2412 - 2472	99.083	19.96	453.942	26.57	97.275	19.88	425.598	26.29
802.11n	2412 - 2472	98.175	19.92	472.063	26.74	99.312	19.97	452.898	26.56
802.11ax (SU)	2412 - 2467	97.949	19.91	474.242	26.76	98.628	19.94	444.631	26.48

EUT Overview SISO (High Data Rate)

Mode	Tx Frequency (MHz)	Antenna 3a				Antenna 1a				CDD			
		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted		Avg Conducted		Peak Conducted	
		Max. Power (mW)	Max. Power (dBm)										
802.11g	2412 - 2472	87.096	19.40	429.536	26.33	87.096	19.40	382.825	25.83	174.181	22.41	812.831	29.10
802.11n	2412 - 2472	87.700	19.43	518.800	27.15	89.125	19.50	492.040	26.92	177.011	22.48	1011.579	30.05
802.11ax (SU)	2412 - 2467	88.105	19.45	529.663	27.24	86.099	19.35	509.331	27.07	174.181	22.41	1039.920	30.17

EUT Overview CDD (High Data Rate)

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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 PCTEST Test Location

These measurement tests were conducted at the PCTEST 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 PCTEST located in Morgan Hill, CA 95037, U.S.A.

- PCTEST 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.
- PCTEST 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).
- PCTEST 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: BCGA2568, IC: 579C-A2568**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

Test Device Serial No.: HDFHLFY3PS, DLX121200630NC43Y, Y7YZXTVHGX, MW1JDVQT6X

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), WPT

This device supports BT Beamforming

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13*	2472
7	2442		

Table 2-1. 802.11b/g/n/ax Frequency/ Channel Operations

*Channel 13 is disabled for DTS 802.11ax HE20.

Note: 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 6.0 b) of KDB 558074 D01 v05r02 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:

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Measured Duty Cycles				
802.11 Mode/Band		Duty Cycle [%]		
		Antenna 3a	Antenna 1a	CDD
2.4GHz	b	99.0	98.4	N/A
	g (Low Data Rate)	97.8	97.7	97.5
	g (Mid Data Rate)	96.1	95.8	95.6
	g (High Data Rate)	94.0	94.0	93.8
	n (Low Data Rate)	97.2	96.8	94.1
	n (Mid Data Rate)	94.5	94.3	89.7
	n (High Data Rate)	92.9	92.5	87.8
	11ax (SU) (Low Data Rate)	95.7	95.8	95.9
	11ax (SU) (Mid Data Rate)	92.9	93.1	93.3
	11ax (SU) (High Data Rate)	91.0	91.3	91.9

Table 2-2. Measured Duty Cycles

The device employs CDD technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		CDD	
		Antenna 3a	Antenna 1a	Antenna 3a	Antenna 1a	Antenna 3a	Antenna 1a
2.4GHz	11b	✓	✓	✗	✗	✗	✗
	11g	✓	✓	✓	✓	✓	✓
	11n	✓	✓	✓	✓	✓	✓
	11ax	✓	✓	✓	✓	✓	✓

Table 2-3. Wi-Fi Configurations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – CDD function

CDD = Cyclic Delay Diversity - 2Tx Function

Data Rates Supported: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps (b)
 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (g)
 6.5/7.2Mbps, 13/14.4Mbps, 19.5/21.7Mbps, 26/28.9Mbps, 39/43.3Mbps,
 52/57.8Mbps, 58.5/65Mbps, 65/72.2Mbps (n)
 13/14.4Mbps, 26/28.9Mbps, 39/43.3Mbps, 52/57.8Mbps, 78/86.7Mbps,
 104/115.12Mbps, 117/130Mbps, 130/144.4Mbps (CDD n)
 8/8.6Mbps, 16/17.2 Mbps, 24/25.8Mbps, 33/34.4Mbps, 49/51.6Mbps,
 65/68.8Mbps, 73/77.4Mbps, 81/86.0Mbps, 98/103.2Mbps, 108/114.7Mbps (11ax)
 16/17.2Mbps, 32/34.4 Mbps, 48/51.6Mbps, 66/68.8Mbps, 98/103.2Mbps,
 260/275.2Mbps, 146/154.8Mbps, 162/172Mbps, 196/206.4Mbps, 216/229.4Mbps
 (CDD 11ax)

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This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Antenna	Simultaneous Tx Config	WLAN	Bluetooth	WCDMA	LTE / FR1 NR			UNII
		802.11 b/g/n/ax	BDR, EDR, HDR4/8, LE1/2M	Mid Band	Mid Band	High Band	Ultra High Band	802.11 a/n/ac/ax
3a	Config 1	✓	✗	✗	✗	✗	✓	✗
3a	Config 2	✗	✓	✗	✗	✗	✓	✗
3b	Config 3	✗	✗	✗	✗	✓	✗	✓
3b	Config 4	✗	✗	✗	✓	✗	✗	✓
3b	Config 5	✗	✗	✓	✗	✗	✗	✓
3a	Config 6	✗	✓	✗	✗	✗	✓	✗
3b	Config 7	✗	✗	✗	✗	✓	✗	✓
3b	Config 8	✗	✗	✗	✓	✗	✗	✓

Table 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst case configuration was found to be Config 2 and reported in Bluetooth and FCC part 96 test reports.

2.3 Antenna Description

Following antenna gains provided by manufacturer were used for the testing.

Frequency [GHz]	Antenna Gain (dBi)	
	Antenna 3a	Antenna 1a
2.4	0.5	-0.4

Table 2-5. Highest Antenna Gain

2.4 Test Support Equipment

Test Support Equipment List					
1	Apple MacBook Pro w/AC/DC Adapter	Model: A2141 Model: A2166	S/N:	C02DV7VKMD6T N/A	
2	Apple USB-C Cable	Model: Chimp	S/N:	420A57	
3	USB-C Cable w/ AC Adapter	Model: A146 Model: A2305	S/N:	N/A N/A	
4	Apple Pencil	Model: N/A	S/N:	GQXYGSXBJKM9	
5	DC Power Supply	Model: KPS3010D	S/N:	N/A	

Table 2-6. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2013 and KDB 558074 D01 v05r02. 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, Section 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

802.11n CDD mode test data provided in this report covers 802.11n SDM.

802.11ax-SU HE20 2TX CDD mode test data provided in this report covers 802.11ax-SU HE20 2TX SDM.

The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three groups of data rate have been investigated and only the worst case data rate per group is reported. The worst case data rate for each group per mode are as follows:

- 802.11b:
 - 11Mbps
- 802.11g:
 - Low Data Rate: 12Mbps
 - Mid Data Rate 24Mbps
 - High Data Rate: 36Mbps
- 802.11n:
 - Low Data Rate: MCS2/MCS10 (SISO/CDD)
 - Mid Data Rate: MCS4/MCS12 (SISO/CDD)
 - High Data Rate: MCS5/MCS13 (SISO/CDD)
- 802.11ax(SU):
 - Low Data Rate: MCS2
 - Mid Data Rate: MCS4
 - High Data Rate: MCS5

For 802.11ax-RU test results, see separate WLAN (OFDMA) report, 1C2106080049-09.BCG

2.6 Software and Firmware

The test was conducted with firmware version 19A310b 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 558074 D01 v05r02 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, 50Ω/50µH 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 groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that the 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 rotated about its vertical axis 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 connections to an external antenna.

Conclusion:

The EUT unit 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 (\pm dB)
Conducted Bench Top Measurements	1.65
Line Conducted Disturbance	2.75
Radiated Disturbance (<30MHz)	4.06
Radiated Disturbance (<1GHz)	4.30
Radiated Disturbance (>1GHz)	4.78
Radiated Disturbance (>18GHz)	4.79

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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
Anritsu	ML2496A	Power Meter	11/3/2020	Annual	11/3/2021	184005
Anritsu	MA2411B	Pulse Power Sensor	11/10/2020	Annual	11/10/2021	1726261
Anritsu	MA2411B	Pulse Power Sensor	12/9/2020	Annual	12/9/2021	1726262
Agilent Technologies	N9030A	3Hz-44GHz PXA Signal Analyzer	3/31/2021	Annual	3/31/2022	MY49430244
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	12/9/2020	Annual	12/9/2021	T058701-01
ETS-Lindgren	3142E	BiConiLog Antenna (30MHz - 6GHz)	9/15/2020	Annual	9/15/2021	208204
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	5/3/2021	Annual	5/3/2022	205956
Keysight Technology	N9040B	UXA Signal Analyzer	12/19/2020	Annual	12/19/2021	MY57212015
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	12/3/2020	Annual	12/3/2021	102327
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	12/3/2020	Annual	12/3/2021	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	3/16/2021	Annual	3/16/2022	101619
Rohde & Schwarz	ESW26	EMI Test Receiver	6/11/2021	Annual	6/11/2022	101299
Rohde & Schwarz	ESW44	EMI Test Receiver	11/9/2020	Annual	11/9/2021	101570
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	4/29/2021	Annual	4/29/2022	100051
Rohde & Schwarz	TC-TA18	Cross Polarized Vivaldi Antenna (400MHz-18GHz)	10/2/2020	Annual	10/2/2021	101063
Rohde & Schwarz	HFH2-Z2	Loop Antenna	4/5/2021	Annual	4/5/2022	100519
Rohde & Schwarz	ENV216	Two-Line-V-Network (LISN)	12/7/2020	Annual	12/7/2021	101364

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: BCGA2568

IC: 579C-A2568

FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.2
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2
15.247(b)(3)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		PASS	Sections 7.3
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Sections 7.5, 7.6
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.7, 7.8
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen[8.8])	AC LINE CONDUCTED	PASS	Section 7.9

Table 7-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. 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 PCTEST "WLAN Automation," Version 4.0.
- 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 PCTEST "Chamber Automation," Version 1.3.2.

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7.2 6dB BW and 99% OBW Measurements

§2.1049; §15.247(a.2); RSS-247 [5.2]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All antenna configuration and data rates were investigated and the worst case results are reported in this section.

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2
 KDB 558074 D01 v05r02 – Section 8.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize

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

The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst case data rate per group is reported.

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Antenna 3a 6dB BW and 99% OBW Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	12	16.462	15.370	0.500	Pass
2437	6	g	12	16.472	16.050	0.500	Pass
2462	11	g	12	16.420	15.710	0.500	Pass
2412	1	n	19.5/21.7 (MCS2)	17.664	16.337	0.500	Pass
2437	6	n	19.5/21.7 (MCS2)	17.674	16.946	0.500	Pass
2462	11	n	19.5/21.7 (MCS2)	17.640	16.133	0.500	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	18.800	16.945	0.500	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	18.932	18.854	0.500	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	18.851	17.588	0.500	Pass

Table 7-2. Conducted Bandwidth Measurements Antenna 3a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	24	16.399	16.127	0.500	Pass
2437	6	g	24	16.471	16.429	0.500	Pass
2462	11	g	24	16.381	16.140	0.500	Pass
2412	1	n	39/43.3 (MCS4)	17.618	17.608	0.500	Pass
2437	6	n	39/43.3 (MCS4)	17.653	17.646	0.500	Pass
2462	11	n	39/43.3 (MCS4)	17.589	17.572	0.500	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	17.618	17.386	0.500	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	17.724	17.752	0.500	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	17.643	17.731	0.500	Pass

Table 7-3. Conducted Bandwidth Measurements Antenna 3a (Mid Data Rate)

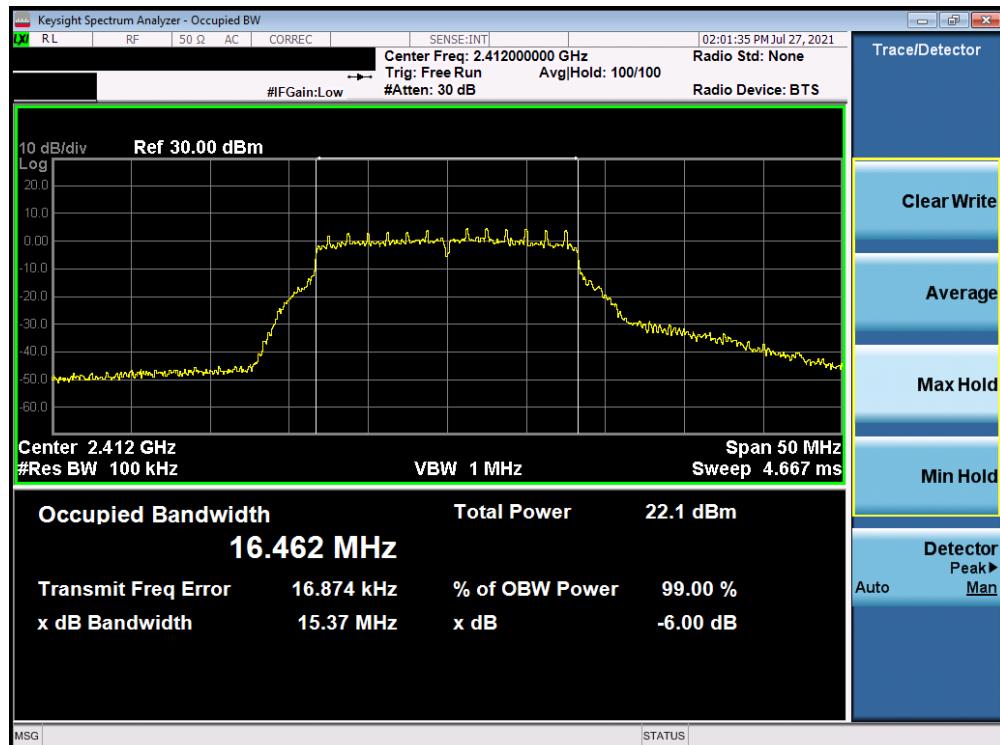
FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 16 of 444

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	b	11	12.653	9.438	0.500	Pass
2437	6	b	11	12.769	9.372	0.500	Pass
2462	11	b	11	12.654	8.071	0.500	Pass
2412	1	g	36	16.372	16.010	0.500	Pass
2437	6	g	36	16.421	16.333	0.500	Pass
2462	11	g	36	16.364	16.086	0.500	Pass
2412	1	n	52/57.8 (MCS5)	17.610	17.366	0.500	Pass
2437	6	n	52/57.8 (MCS5)	17.725	17.748	0.500	Pass
2462	11	n	52/57.8 (MCS5)	17.637	17.717	0.500	Pass
2412	1	ax (SU)	65/68.8 (MCS5)	18.901	18.891	0.500	Pass
2437	6	ax (SU)	65/68.8 (MCS5)	18.982	19.058	0.500	Pass
2462	11	ax (SU)	65/68.8 (MCS5)	18.944	19.096	0.500	Pass

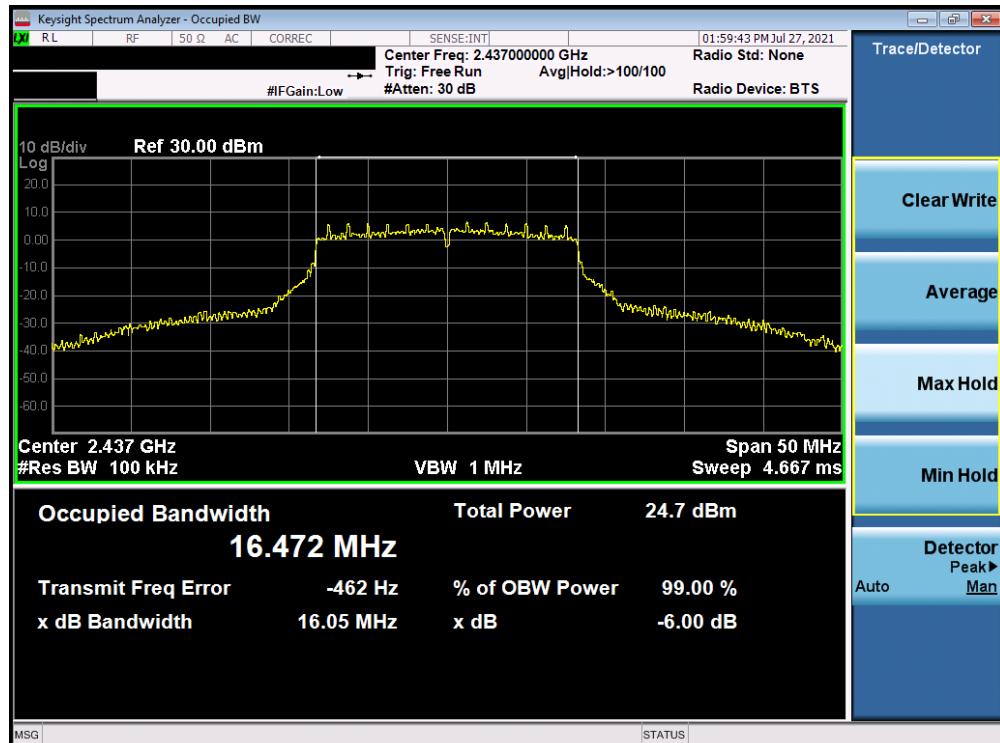
Table 7-4. Conducted Bandwidth Measurements Antenna 3a (High Data Rate)

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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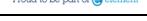
Low Data Rate



Plot 7-1. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 1) – 12Mbps

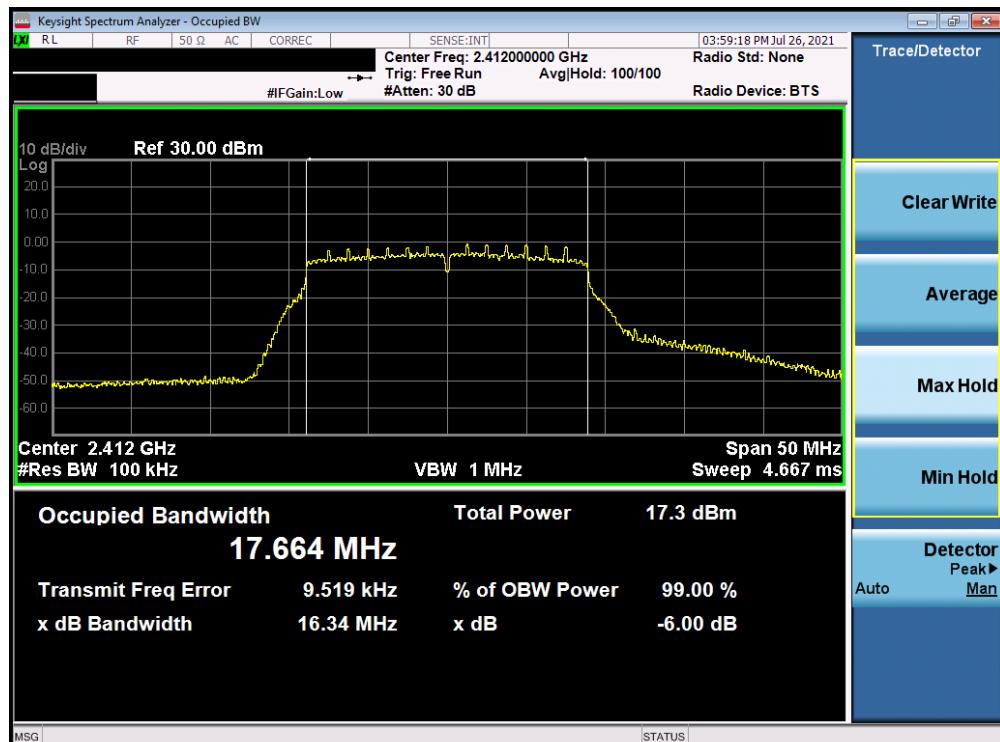


Plot 7-2. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 6) – 12Mbps

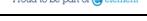
FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device		

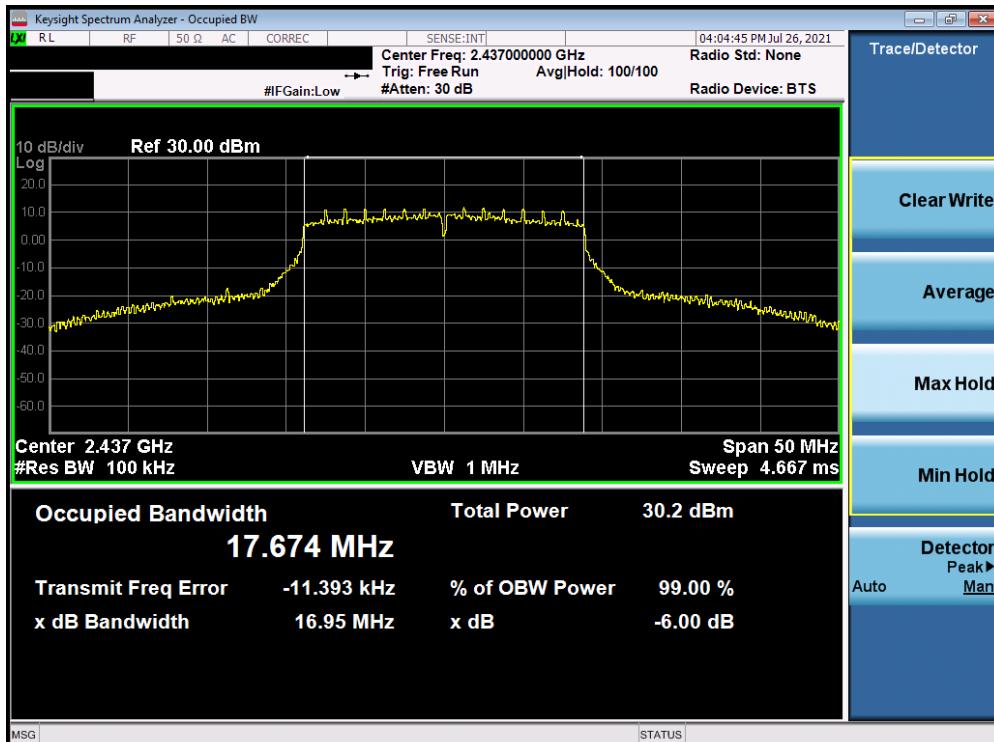


Plot 7-3. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 11) – 12Mbps

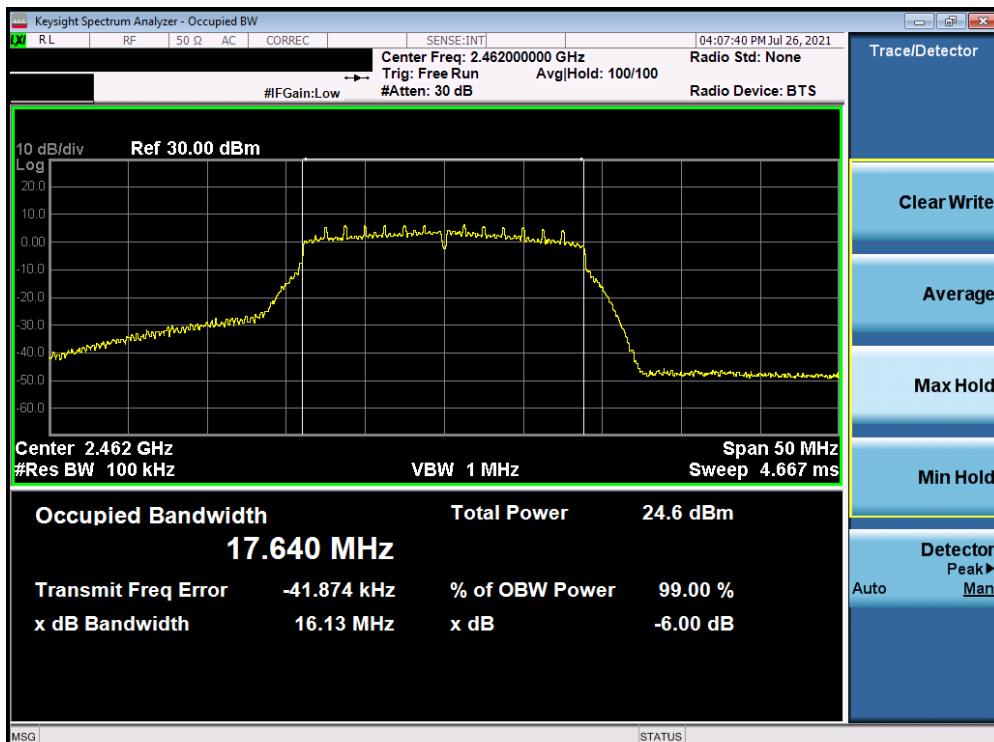


Plot 7-4. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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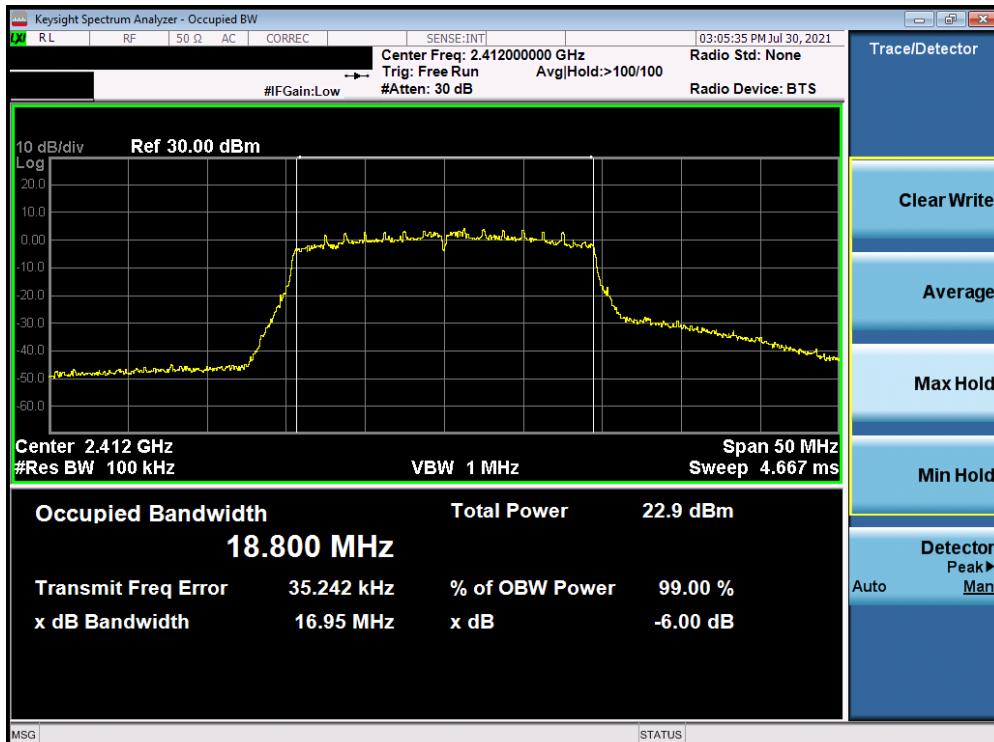


Plot 7-5. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS2

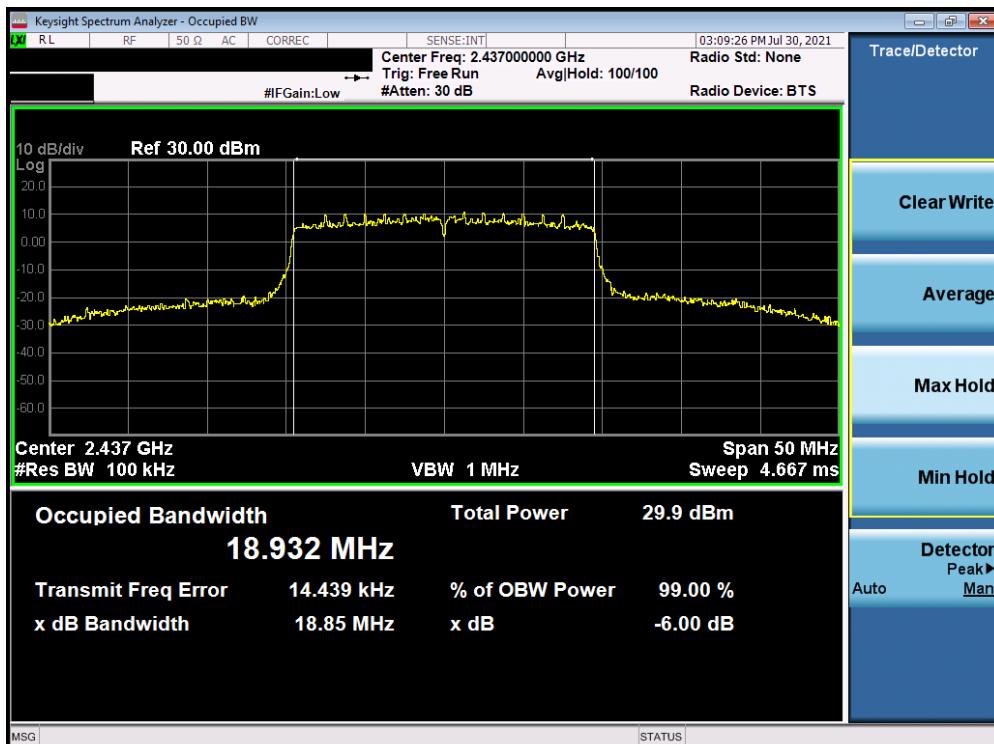


Plot 7-6. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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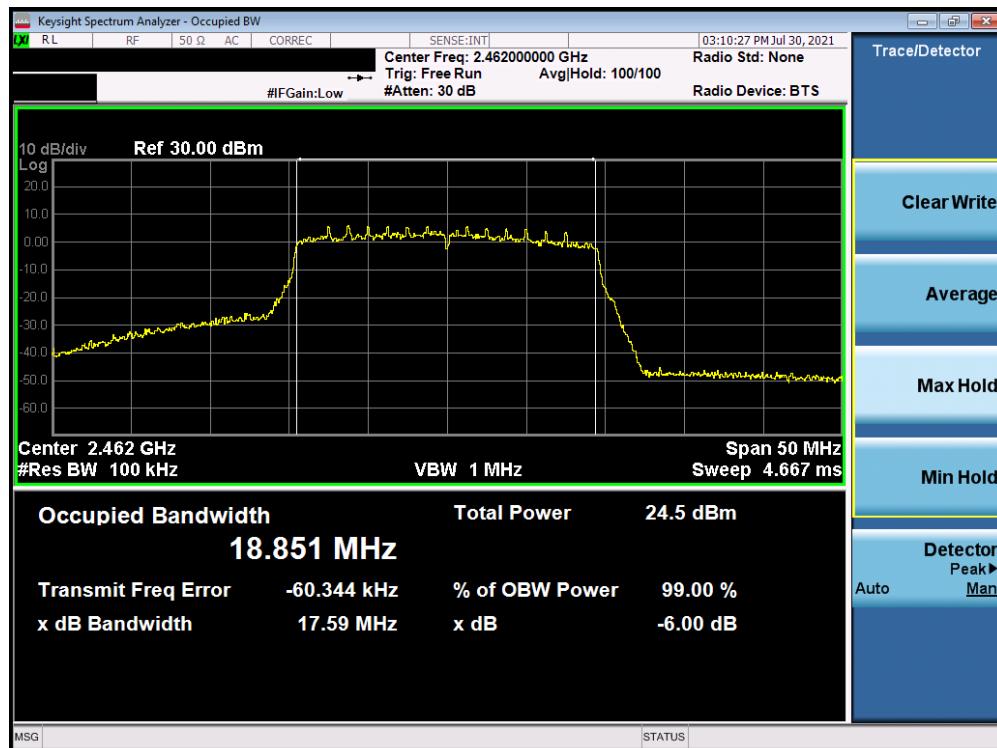


Plot 7-7. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2



Plot 7-8. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

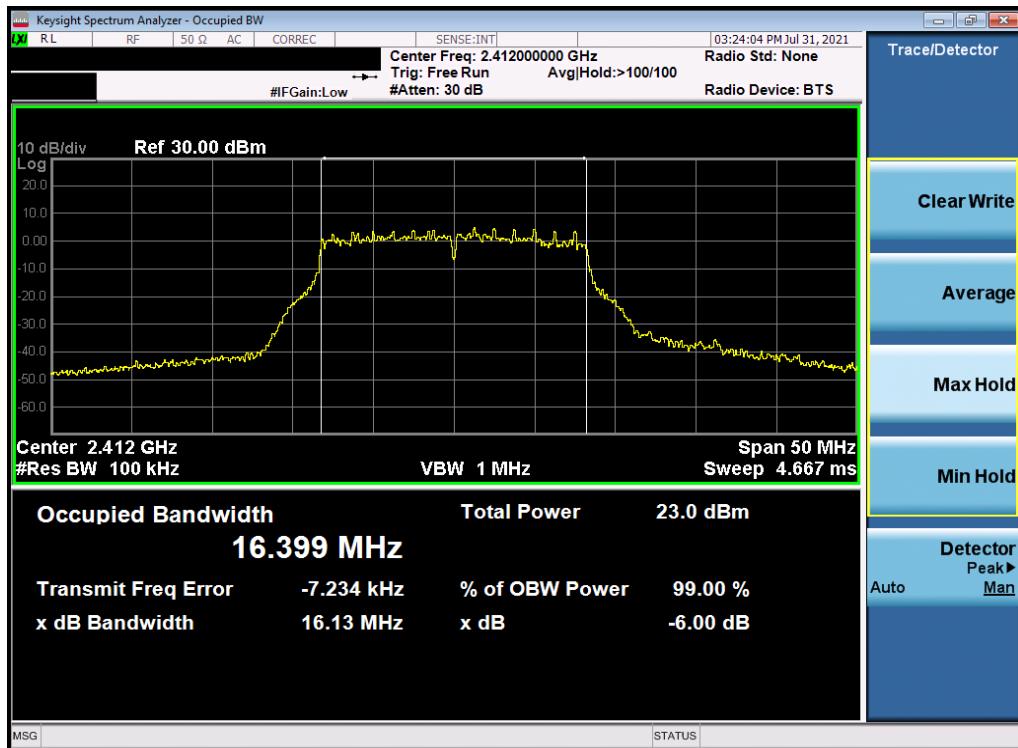
FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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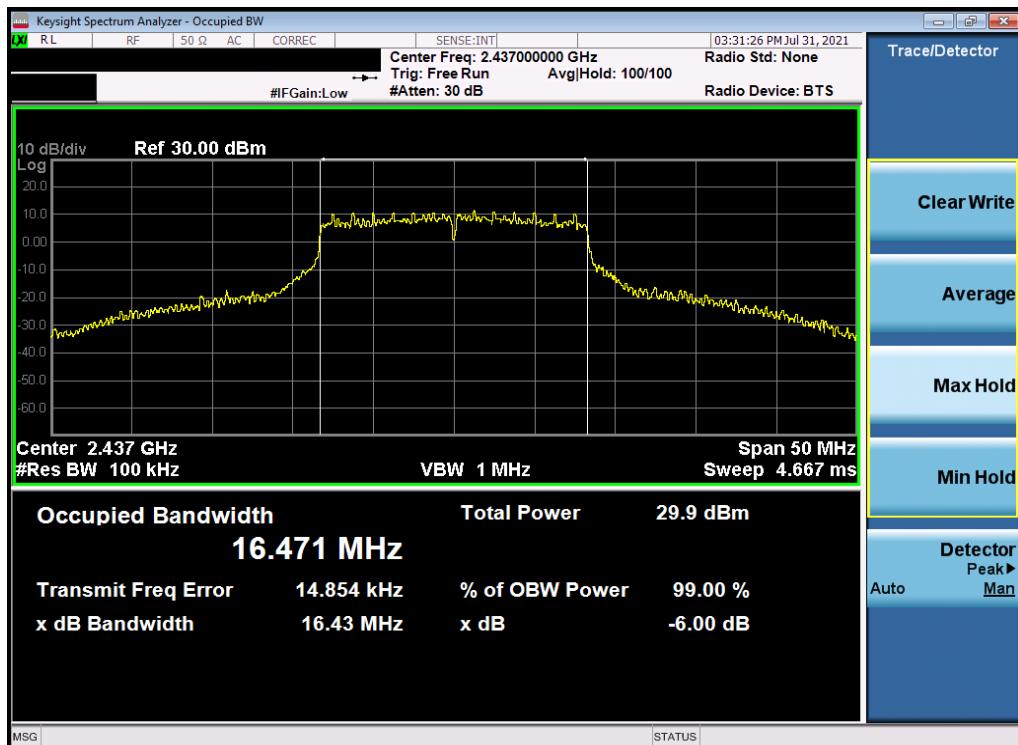
Plot 7-9. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Mid Data Rate

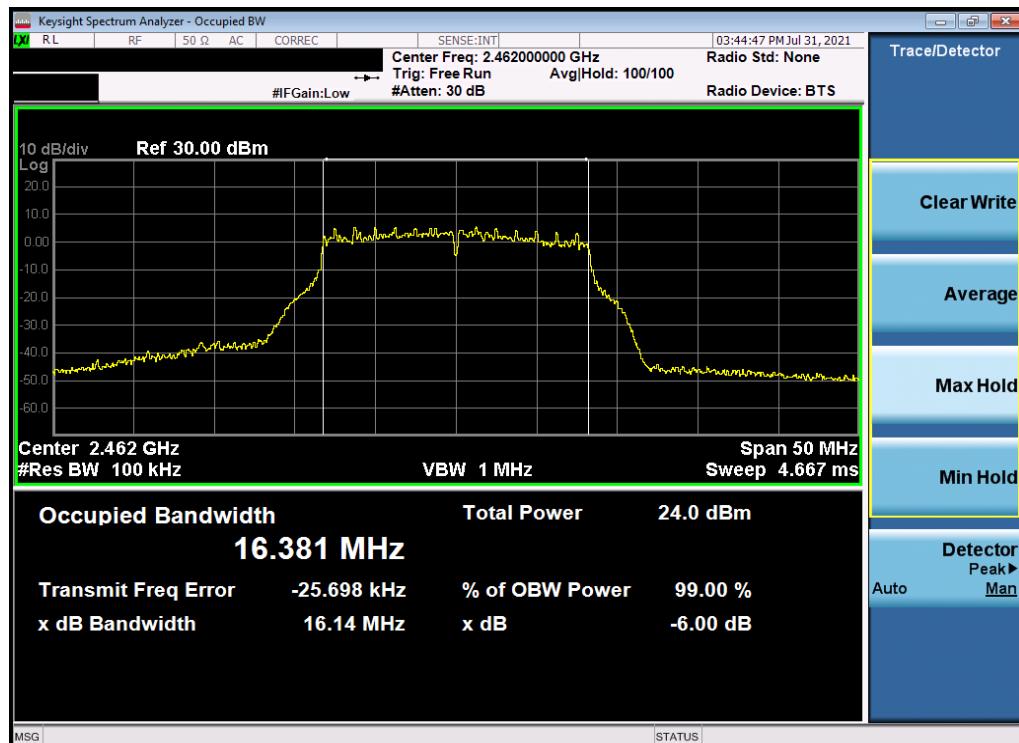


Plot 7-10. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 1) – 24Mbps

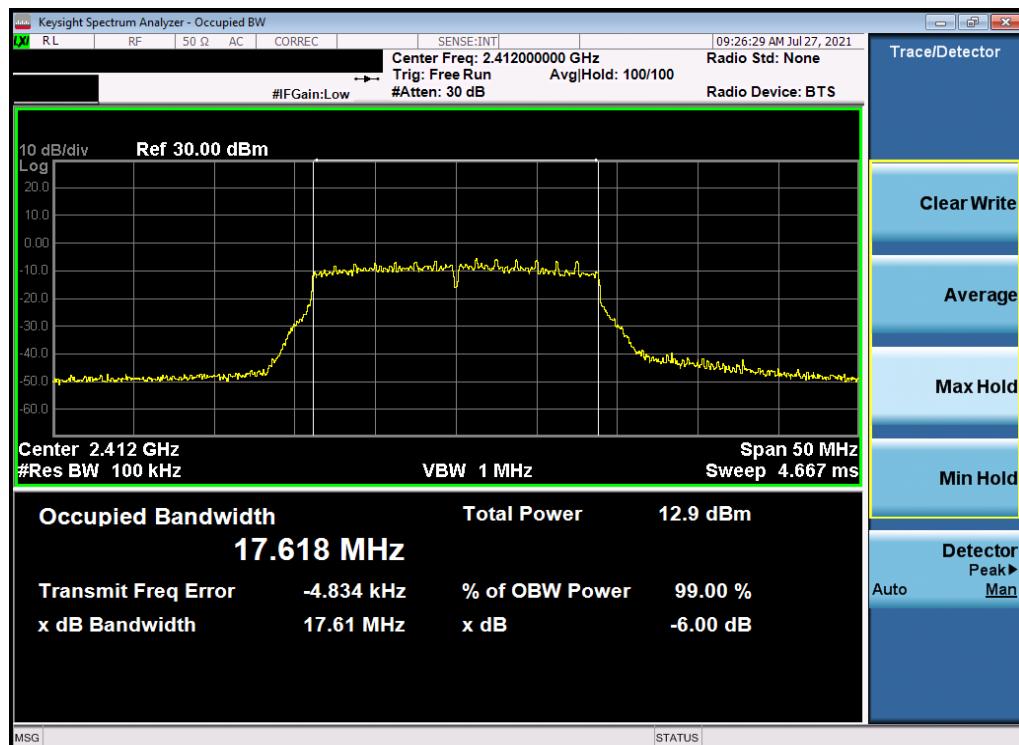


Plot 7-11. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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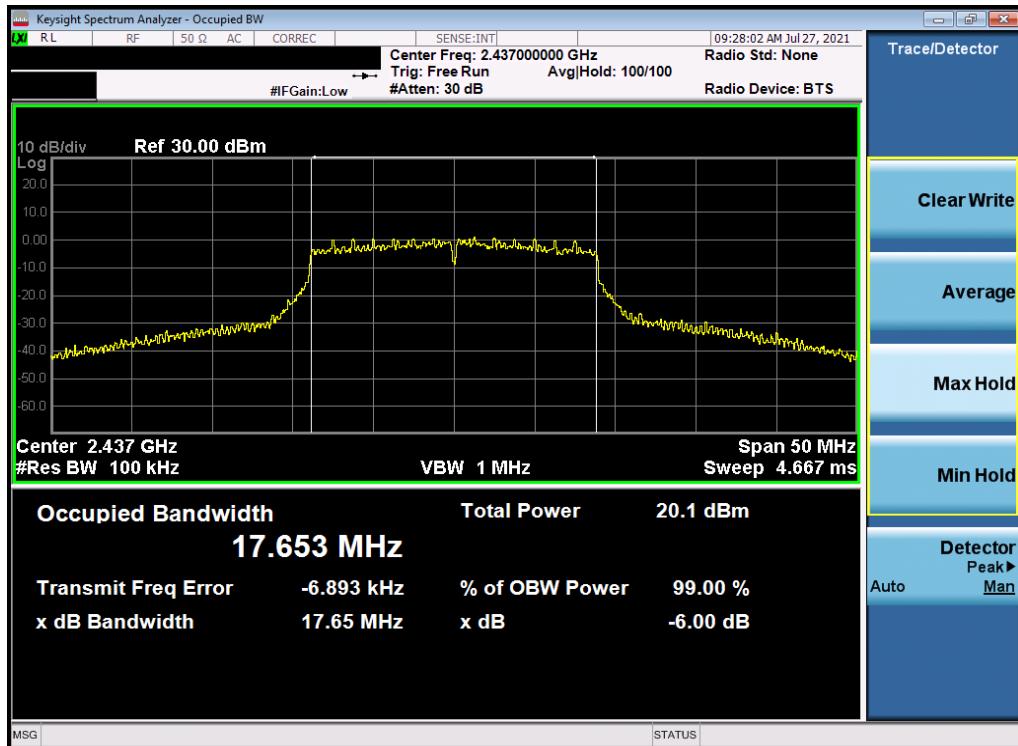


Plot 7-12. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 11) – 24Mbps

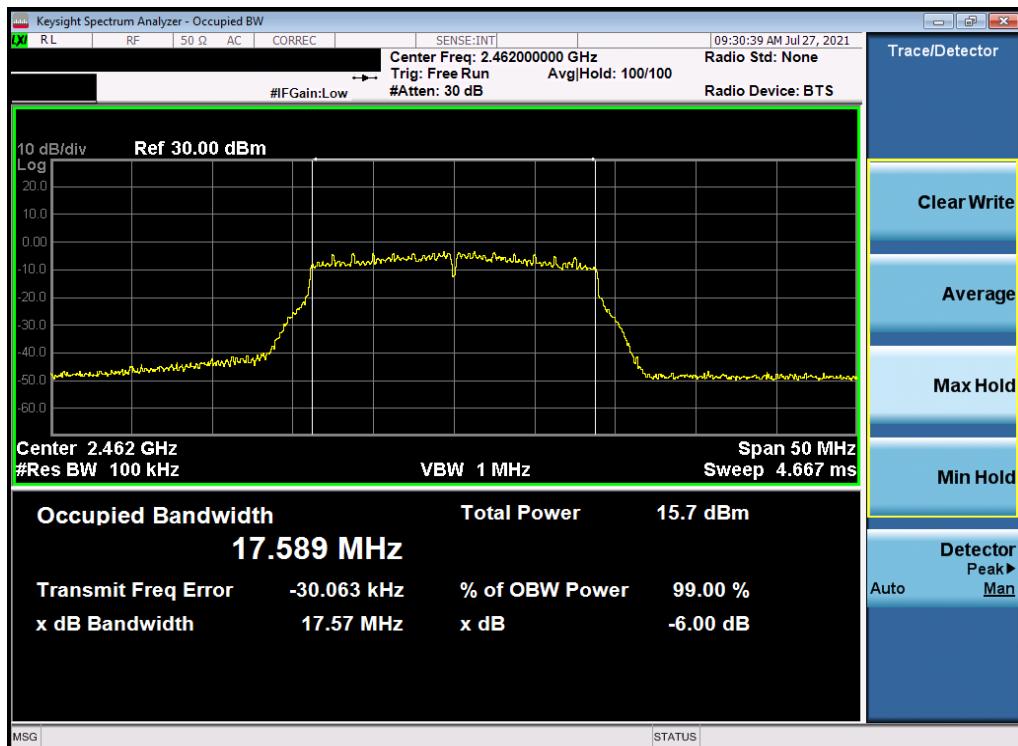


Plot 7-13. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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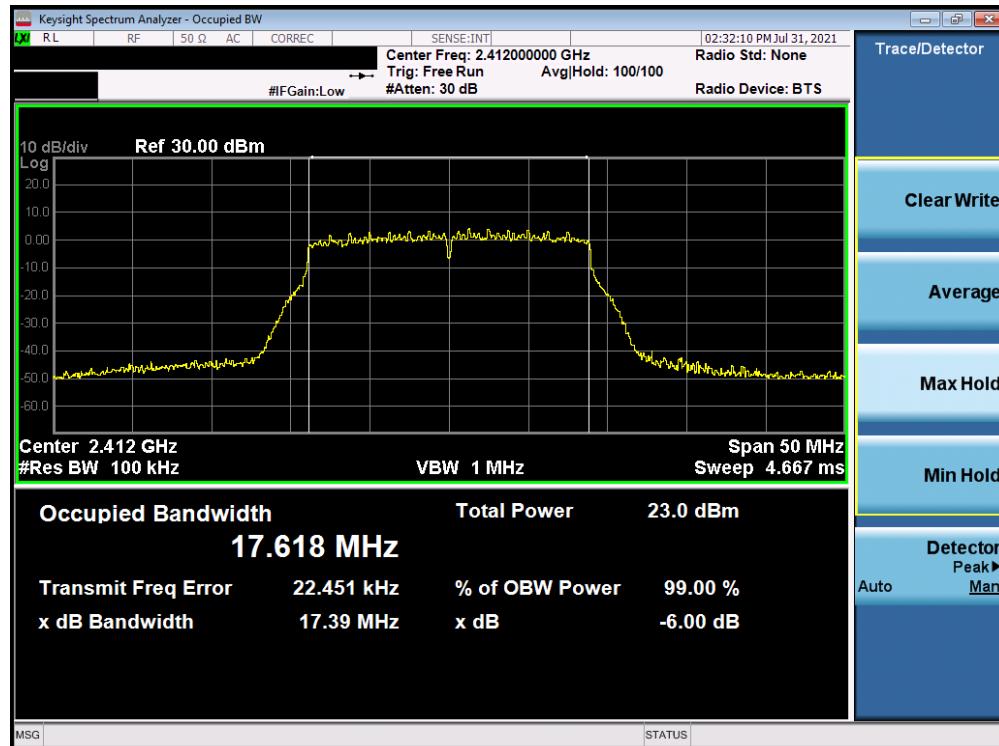


Plot 7-14. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS4

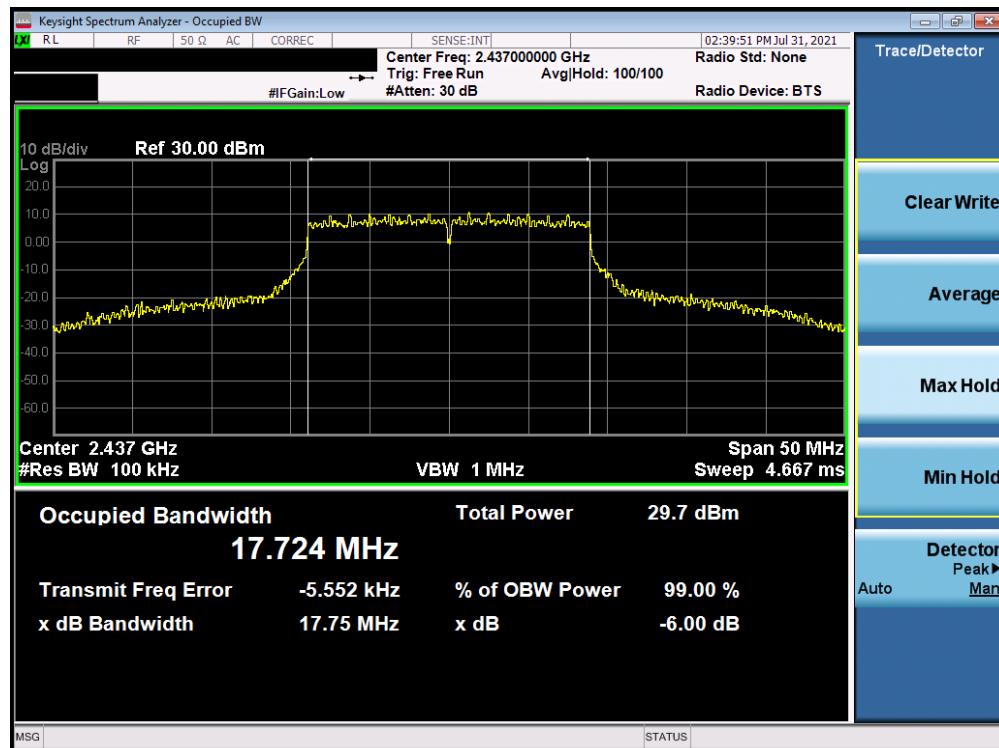


Plot 7-15. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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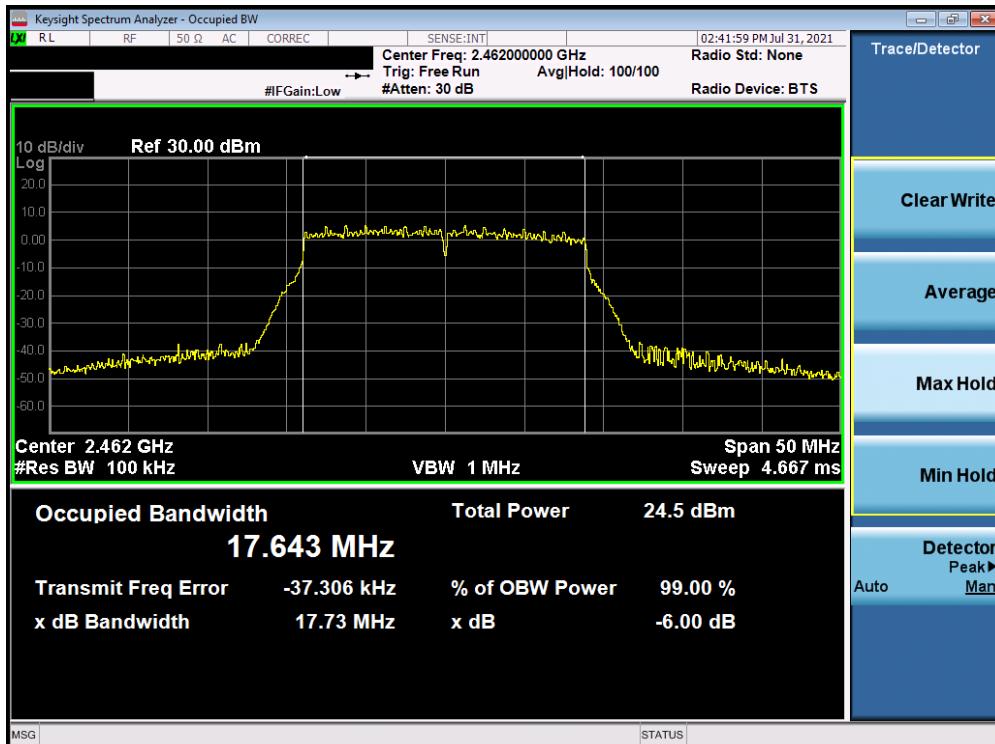


Plot 7-16. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4



Plot 7-17. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

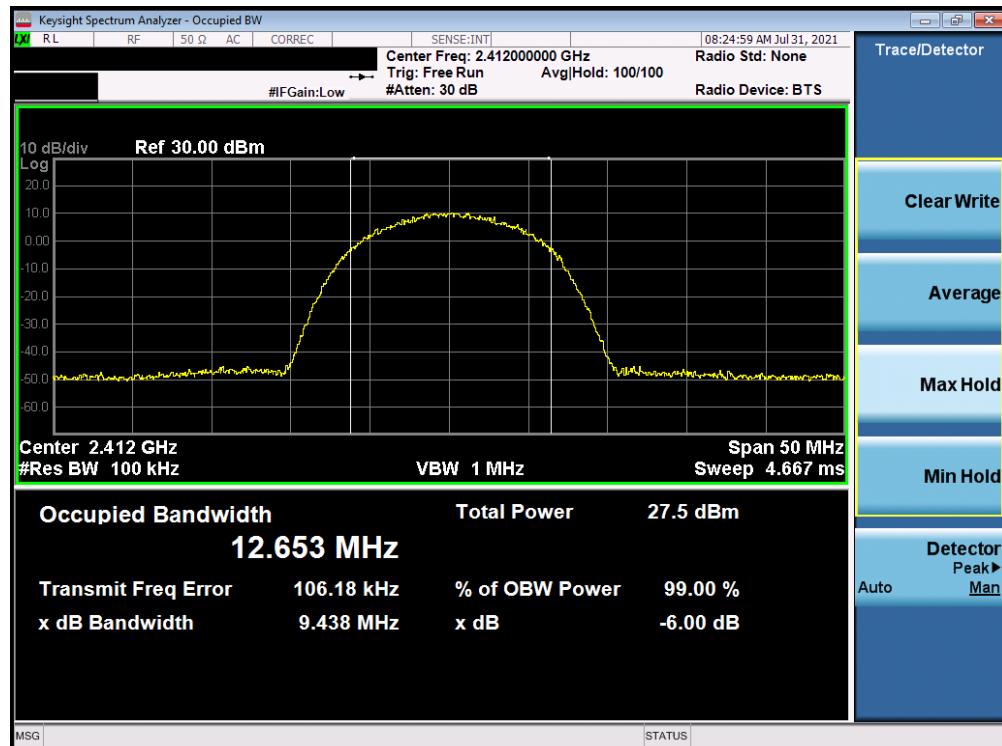
FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 26 of 444	



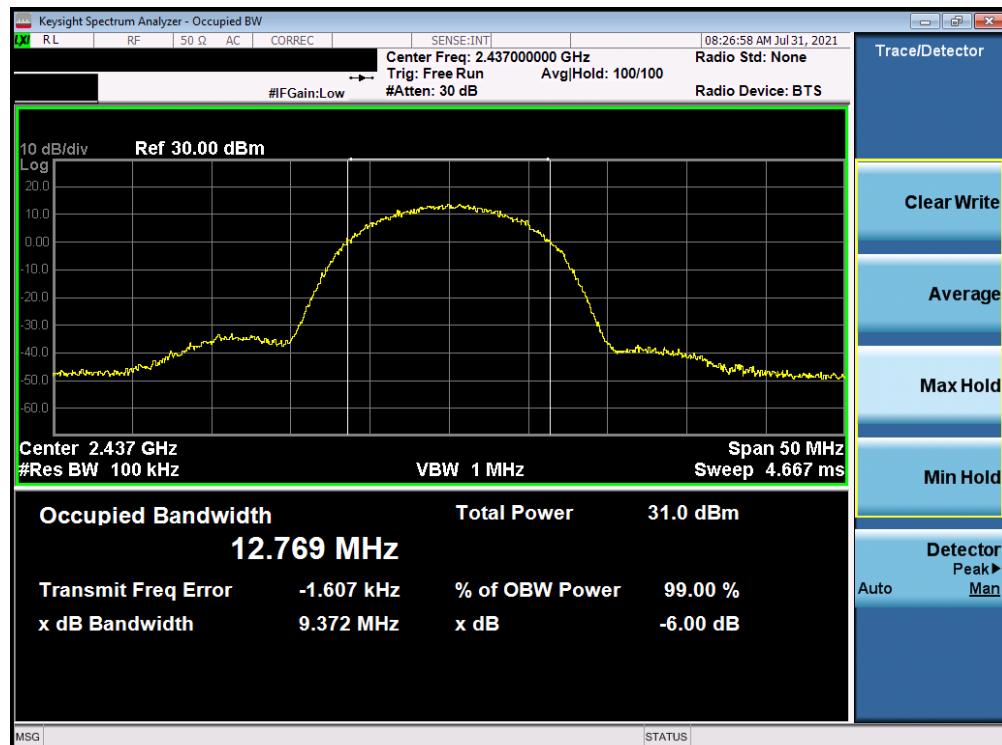
Plot 7-18. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 27 of 444

High Data Rate

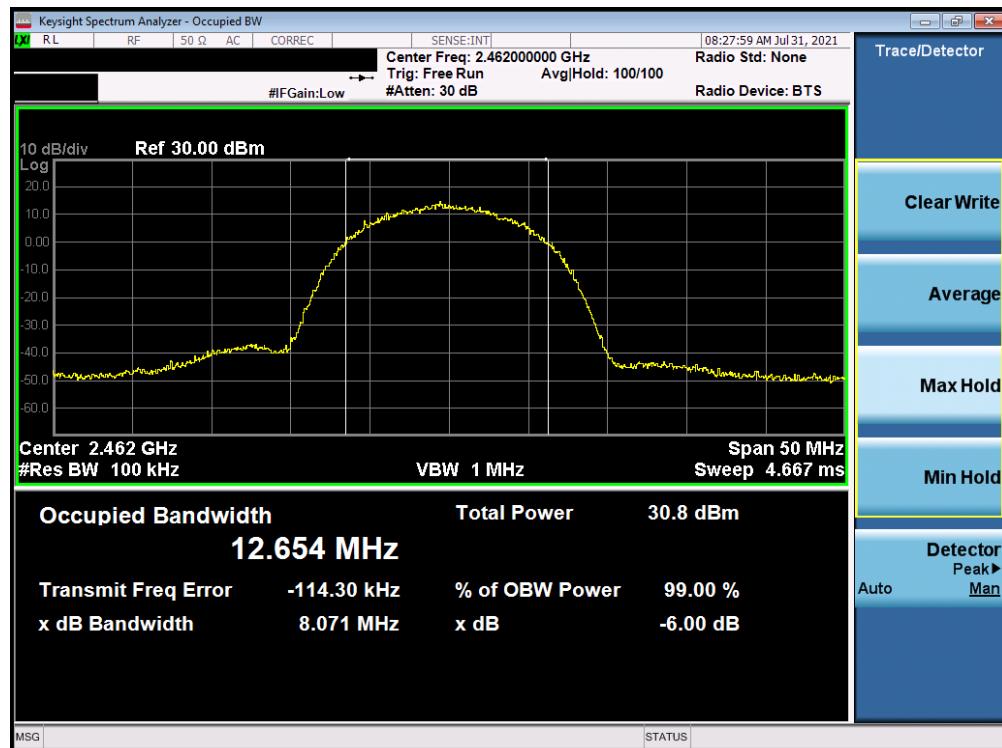


Plot 7-19. 6dB BW and 99% OBW Plot Antenna 3a (802.11b – Ch. 1) – 11Mbps

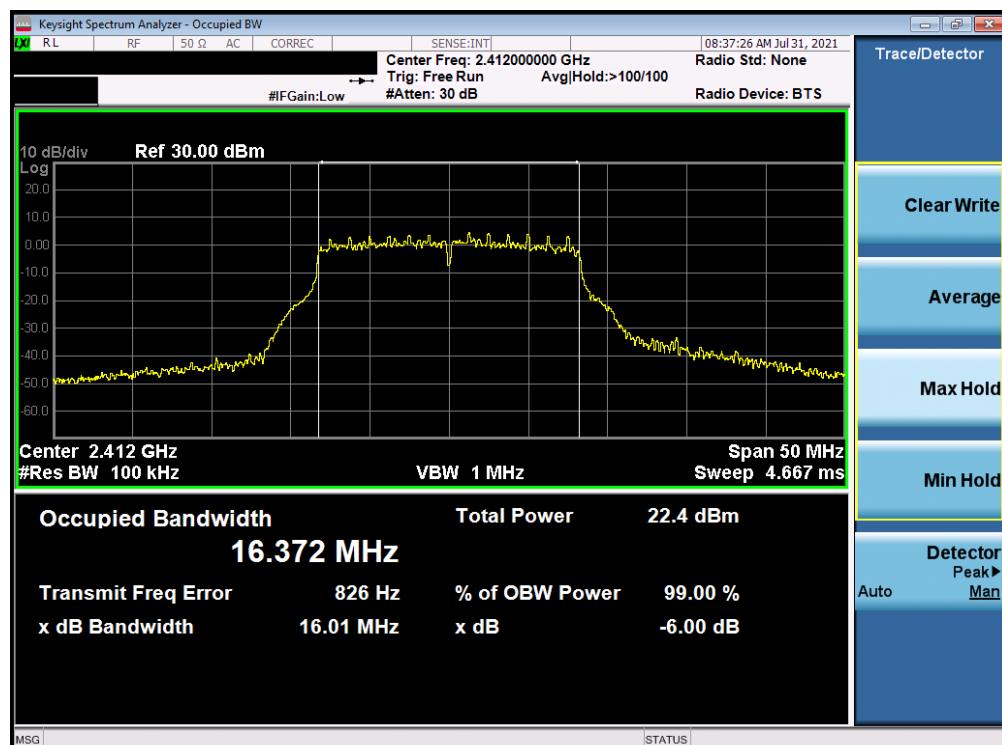


Plot 7-20. 6dB BW and 99% OBW Plot Antenna 3a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 28 of 444	

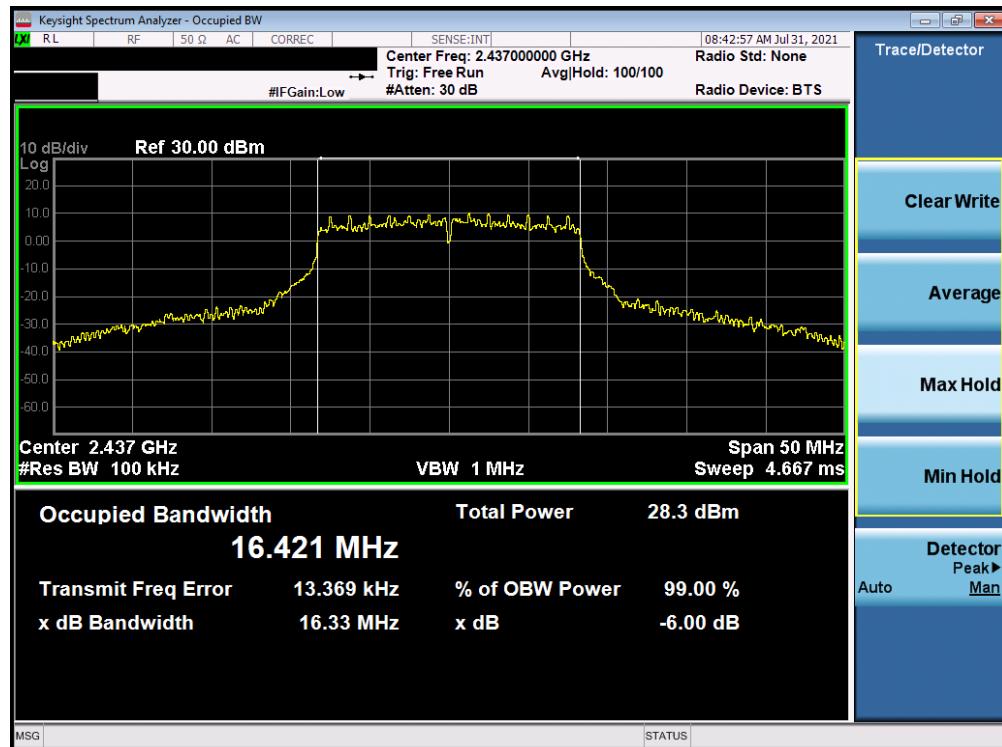


Plot 7-21. 6dB BW and 99% OBW Plot Antenna 3a (802.11b – Ch. 11) – 11Mbps

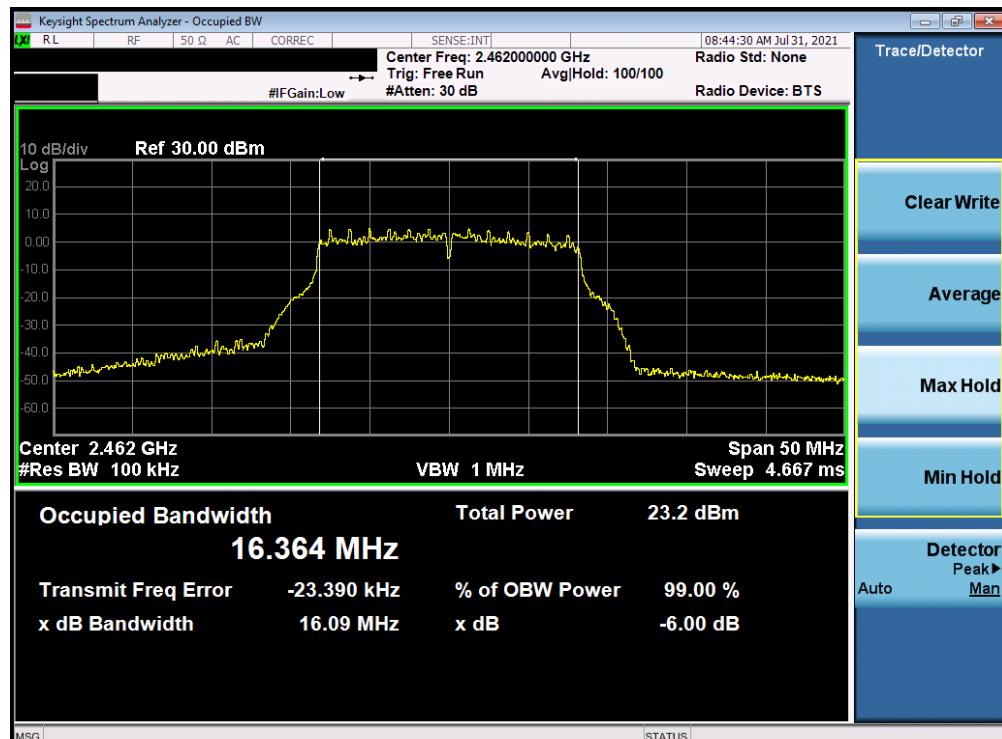


Plot 7-22. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 1) – 36Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 29 of 444	

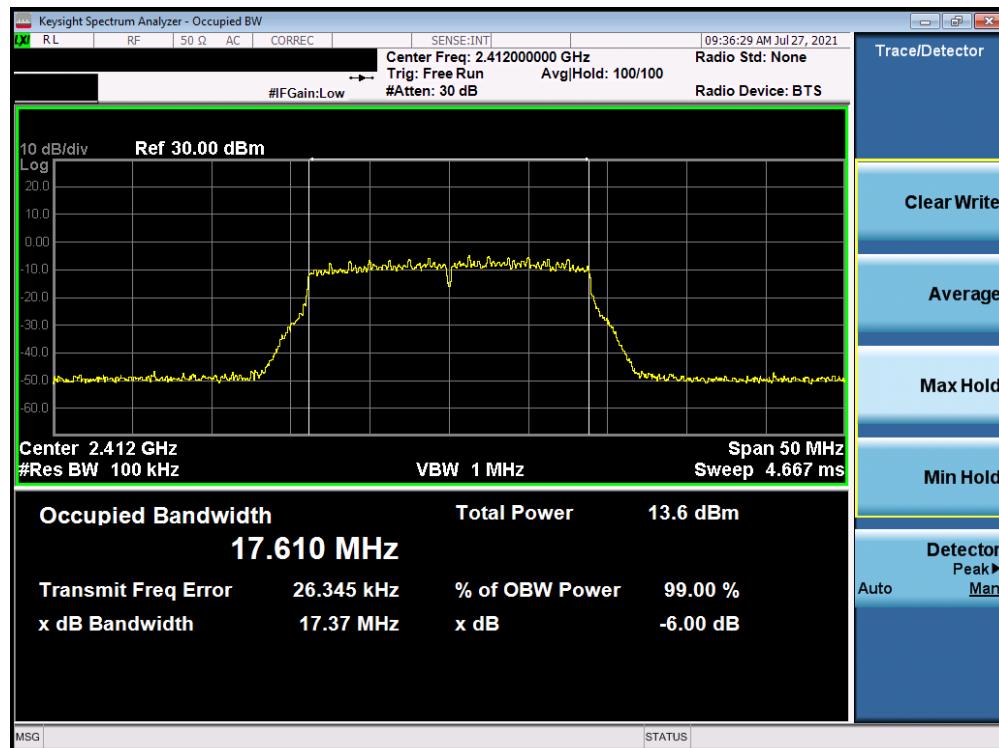


Plot 7-23. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 6) – 36Mbps

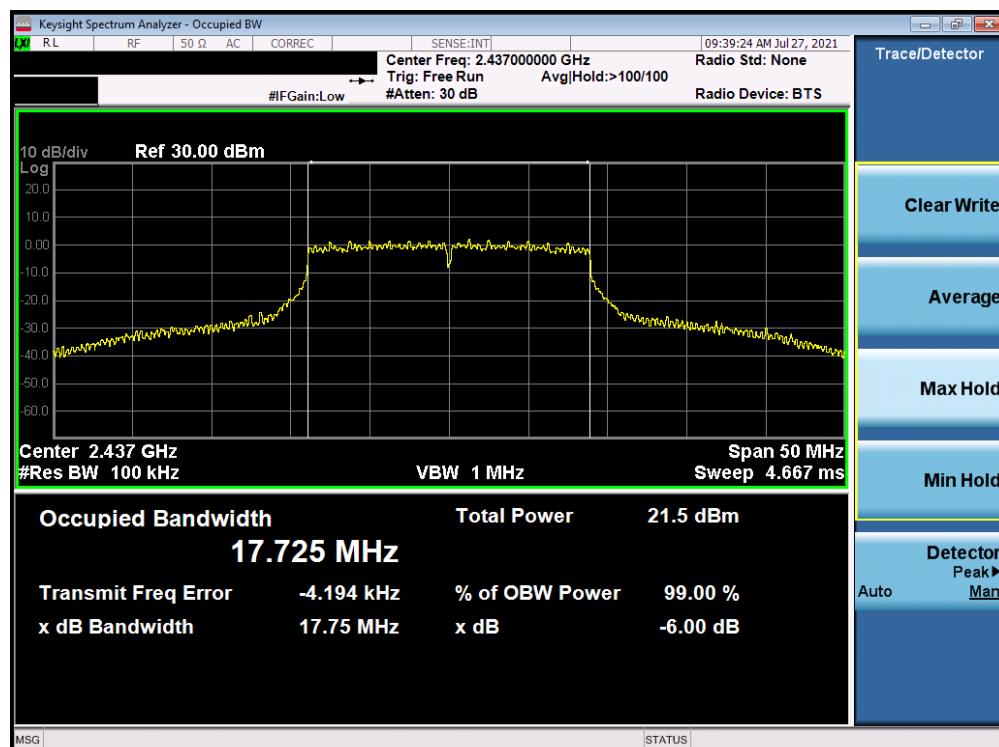


Plot 7-24. 6dB BW and 99% OBW Plot Antenna 3a (802.11g – Ch. 11) – 36Mbps

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 30 of 444

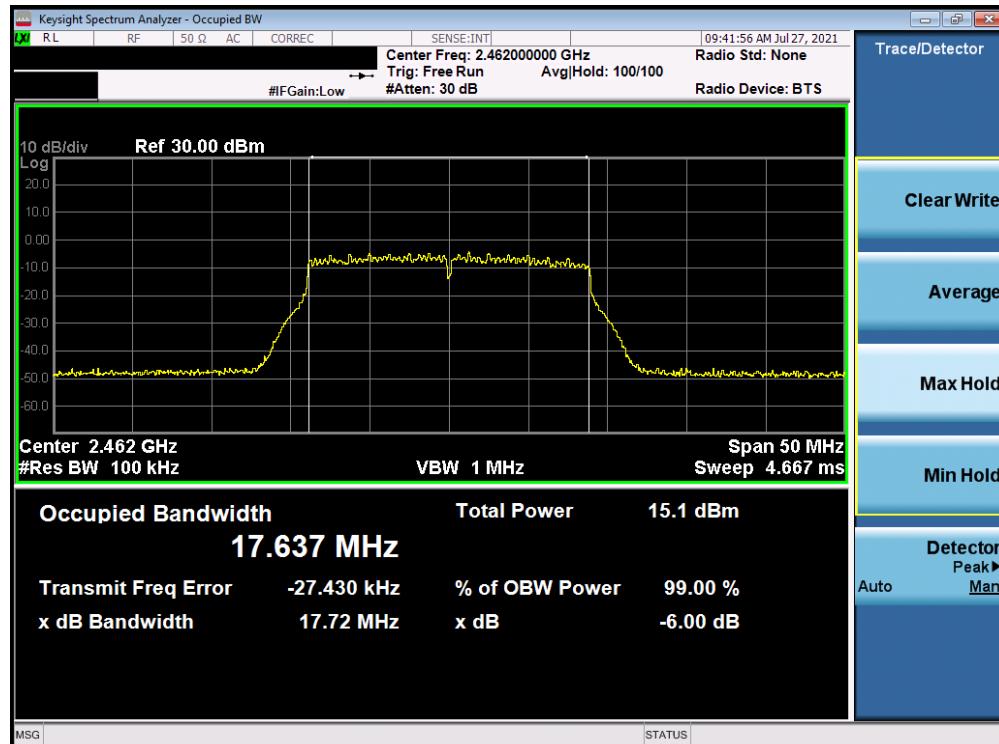


Plot 7-25. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS5

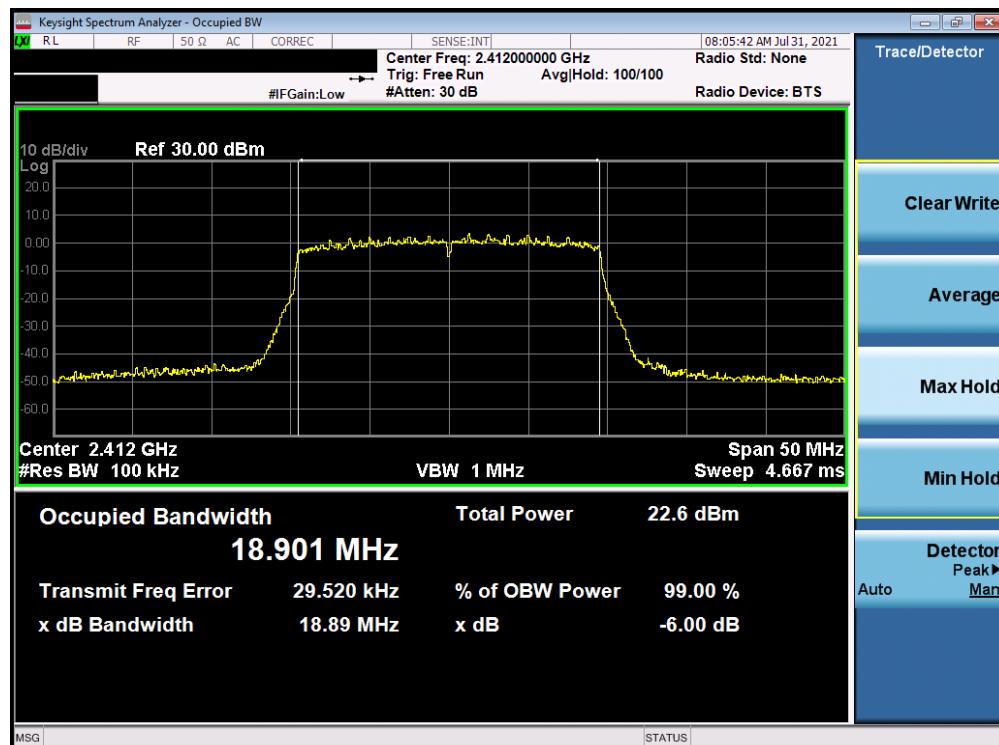


Plot 7-26. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 31 of 444	

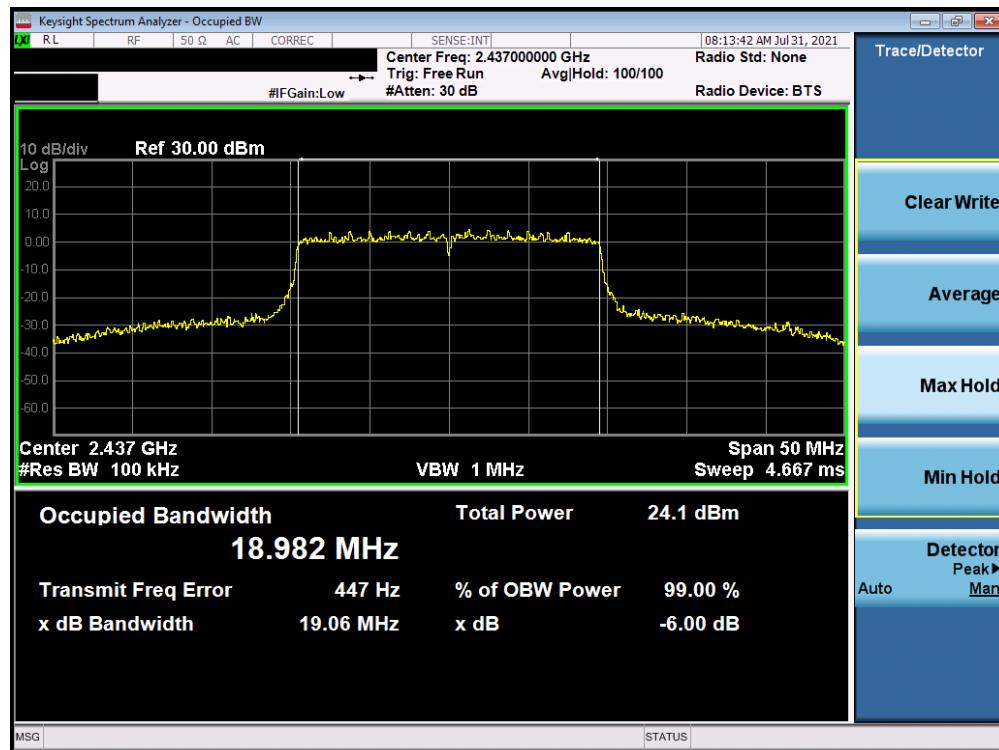


Plot 7-27. 6dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS5

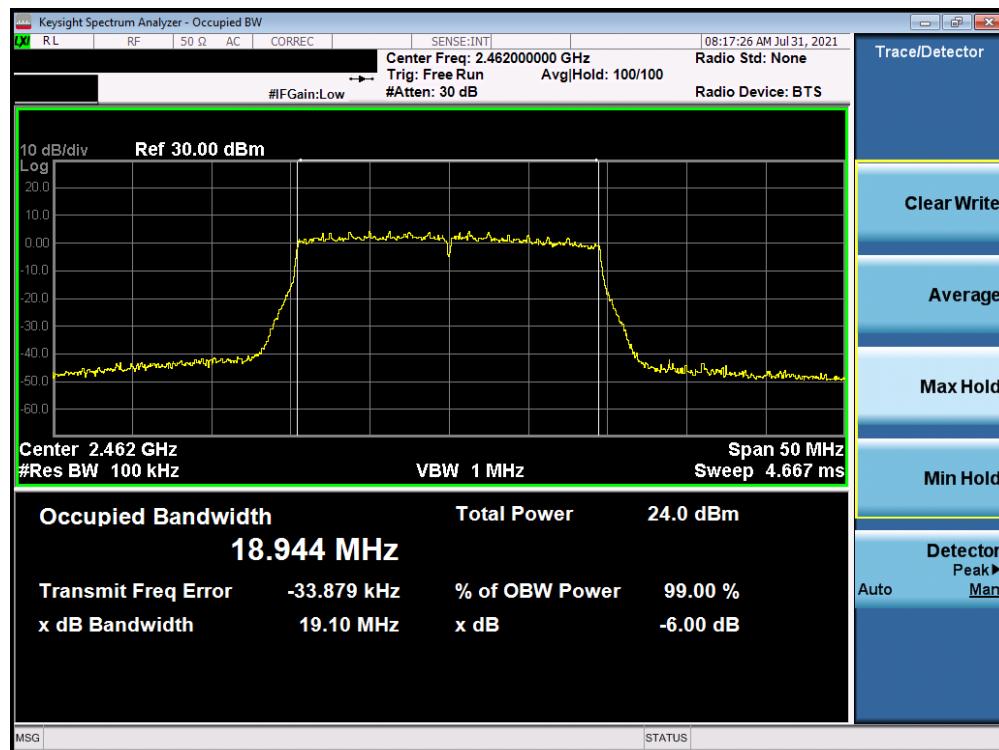


Plot 7-28. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 32 of 444	



Plot 7-29. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-30. 6dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 33 of 444

Antenna 1a 6dB BW and 99% OBW Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	12	16.632	16.350	0.500	Pass
2437	6	g	12	16.680	16.402	0.500	Pass
2462	11	g	12	16.707	16.386	0.500	Pass
2412	1	n	19.5/21.7 (MCS2)	17.673	16.400	0.500	Pass
2437	6	n	19.5/21.7 (MCS2)	17.905	17.614	0.500	Pass
2462	11	n	19.5/21.7 (MCS2)	17.791	17.653	0.500	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	18.855	18.444	0.500	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	18.882	18.836	0.500	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	18.900	18.793	0.500	Pass

Table 7-5. Conducted Bandwidth Measurements Antenna 1a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	g	24	16.397	15.838	0.500	Pass
2437	6	g	24	16.431	16.414	0.500	Pass
2462	11	g	24	16.436	16.433	0.500	Pass
2412	1	n	39/43.3 (MCS4)	17.631	17.701	0.500	Pass
2437	6	n	39/43.3 (MCS4)	17.696	17.621	0.500	Pass
2462	11	n	39/43.3 (MCS4)	17.678	17.753	0.500	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	17.639	17.689	0.500	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	17.661	17.655	0.500	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	17.677	17.754	0.500	Pass

Table 7-6. Conducted Bandwidth Measurements Antenna 1a (Mid Data Rate)

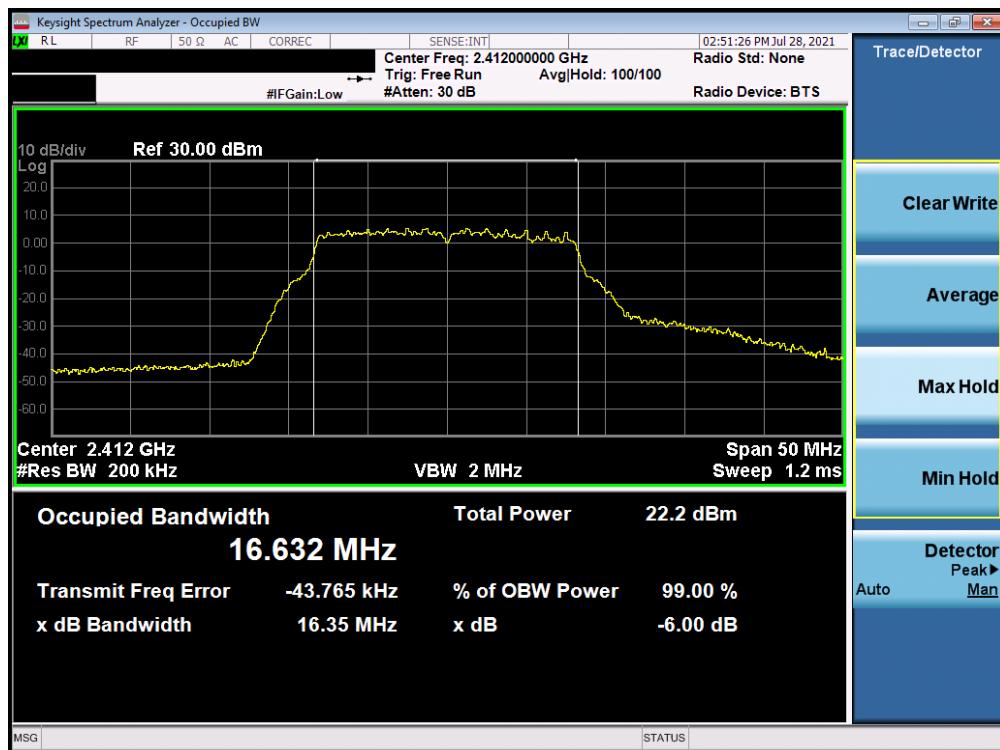
FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 34 of 444

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass / Fail
2412	1	b	11	12.645	8.256	0.500	Pass
2437	6	b	11	12.715	8.453	0.500	Pass
2462	11	b	11	12.738	9.077	0.500	Pass
2412	1	g	36	16.382	16.085	0.500	Pass
2437	6	g	36	16.383	15.796	0.500	Pass
2462	11	g	36	16.408	16.407	0.500	Pass
2412	1	n	52/57.8 (MCS5)	17.632	17.721	0.500	Pass
2437	6	n	52/57.8 (MCS5)	17.646	17.681	0.500	Pass
2462	11	n	52/57.8 (MCS5)	17.686	17.762	0.500	Pass
2412	1	ax (SU)	65/68.8 (MCS5)	18.919	19.056	0.500	Pass
2437	6	ax (SU)	65/68.8 (MCS5)	18.922	18.906	0.500	Pass
2462	11	ax (SU)	65/68.8 (MCS5)	18.975	19.143	0.500	Pass

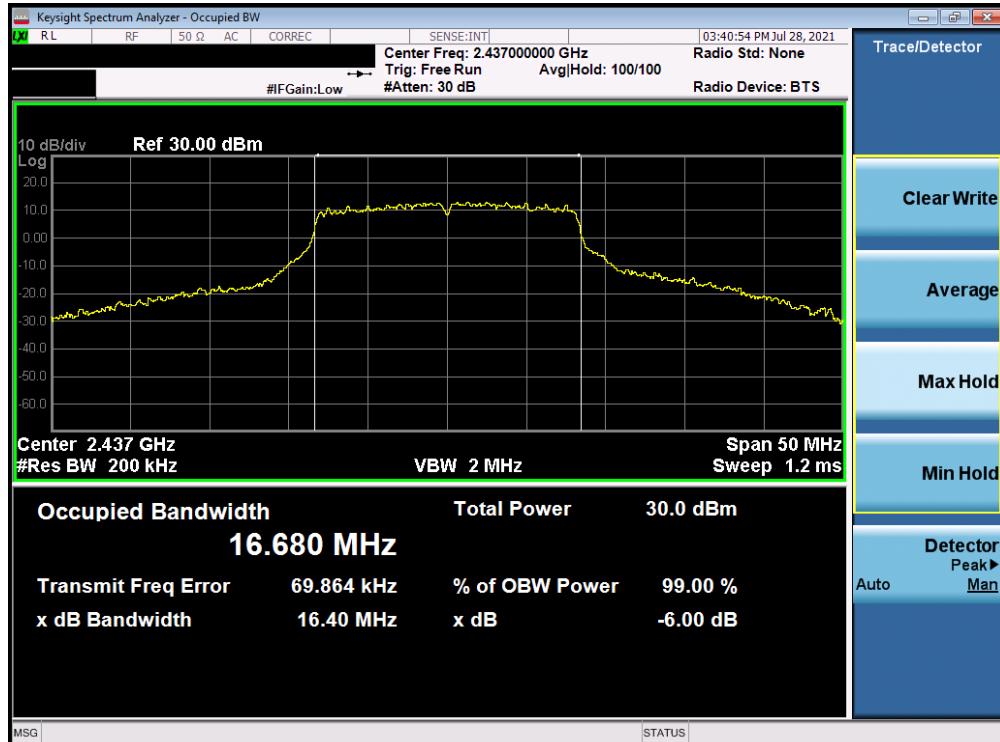
Table 7-7. Conducted Bandwidth Measurements Antenna 1a (High Data Rate)

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 35 of 444

Low Data Rate

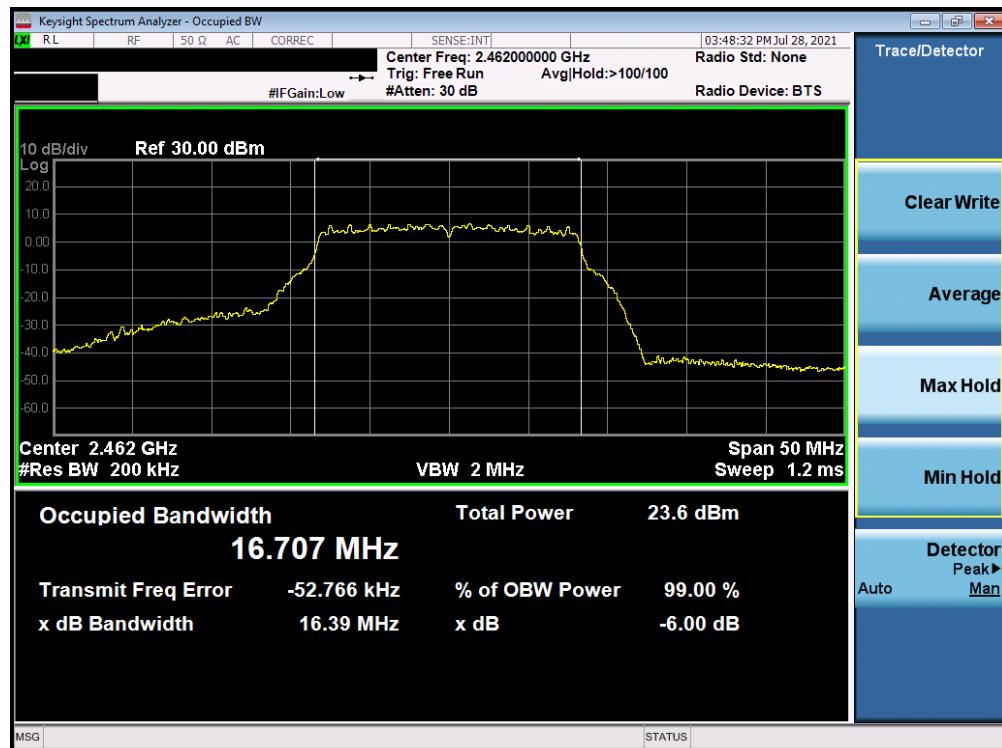


Plot 7-31. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 1) – 12Mbps

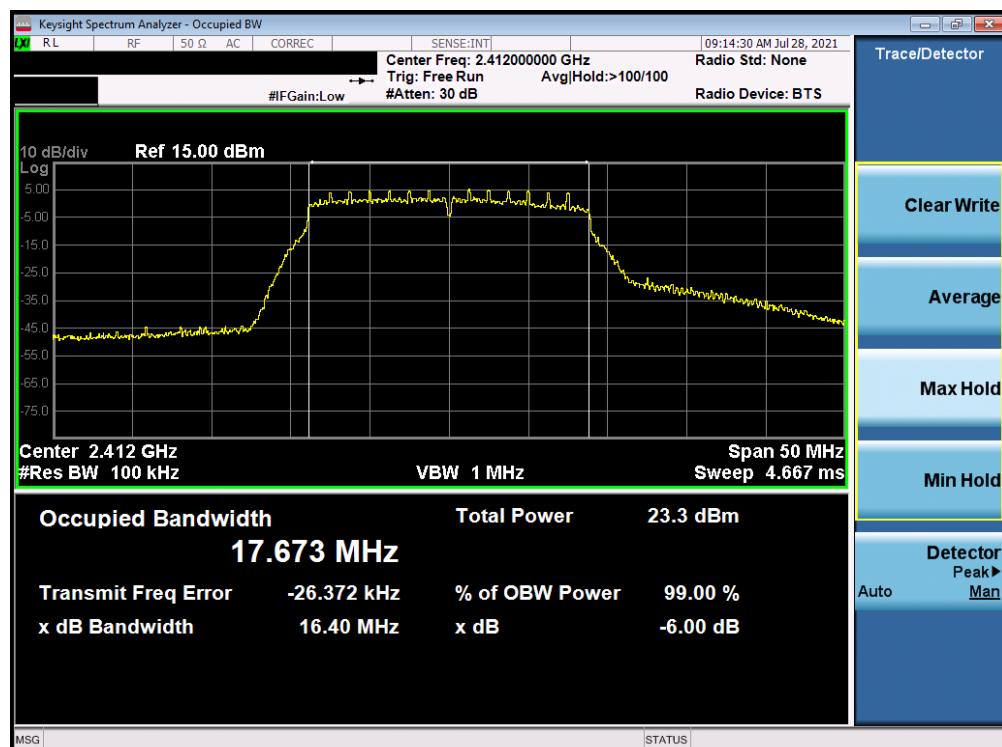


Plot 7-32. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 36 of 444

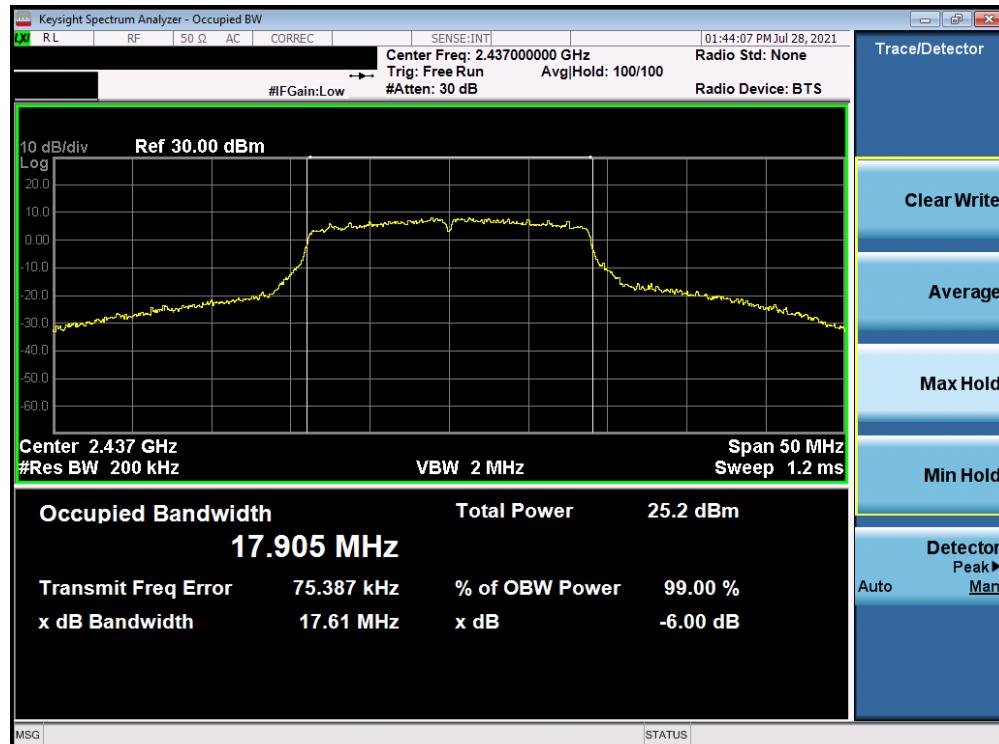


Plot 7-33. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 11) – 12Mbps

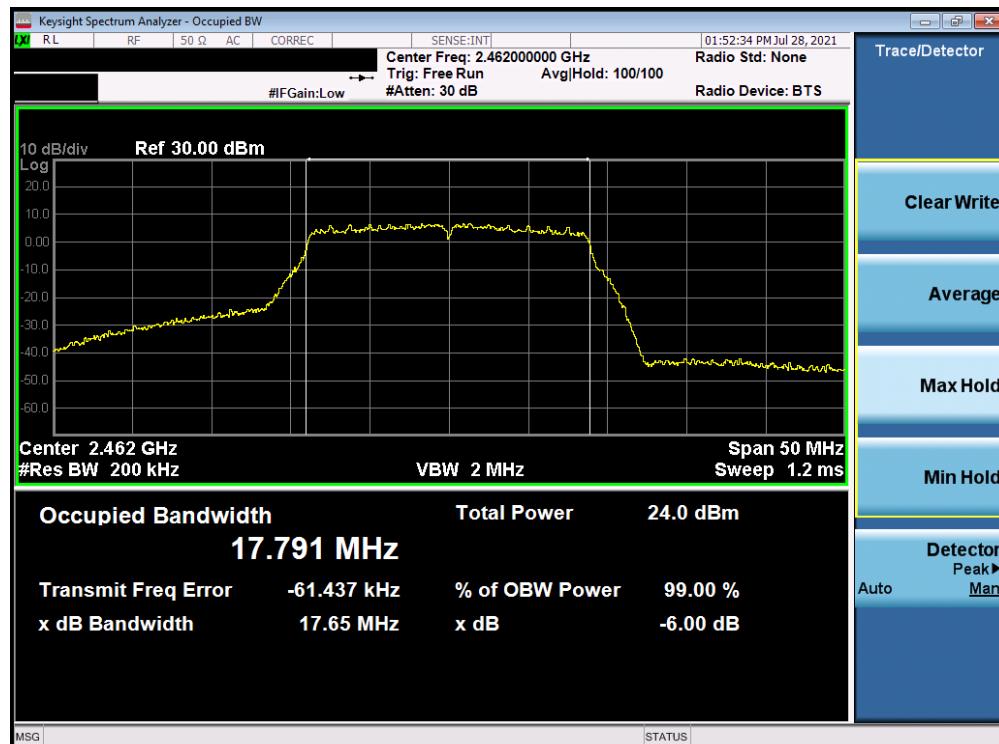


Plot 7-34. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 37 of 444

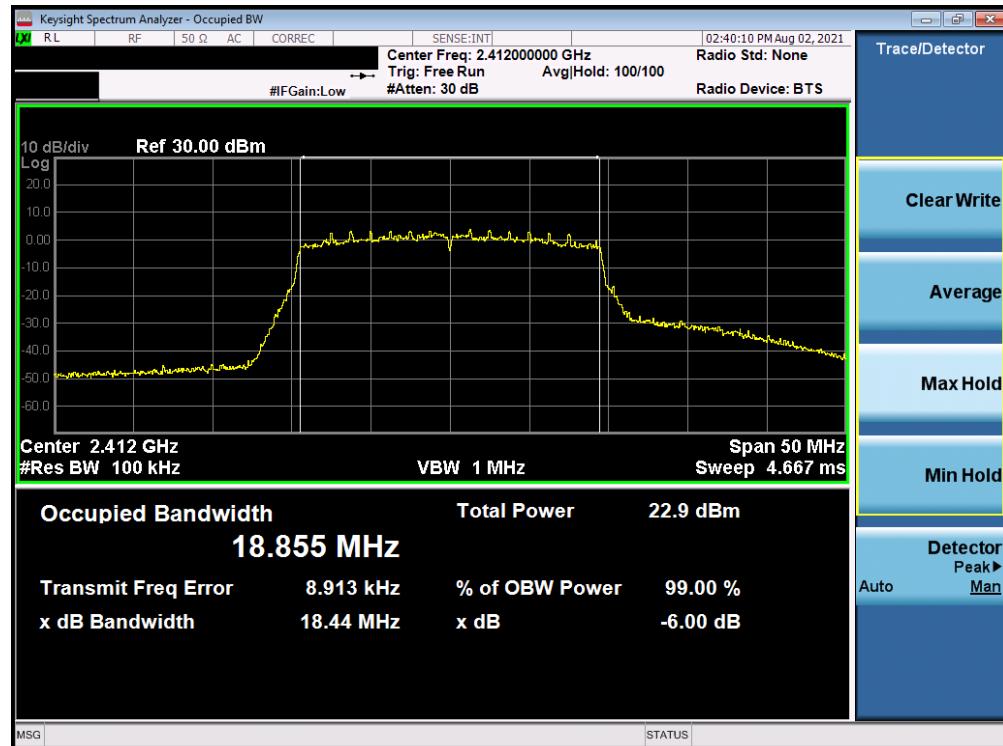


Plot 7-35. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS2

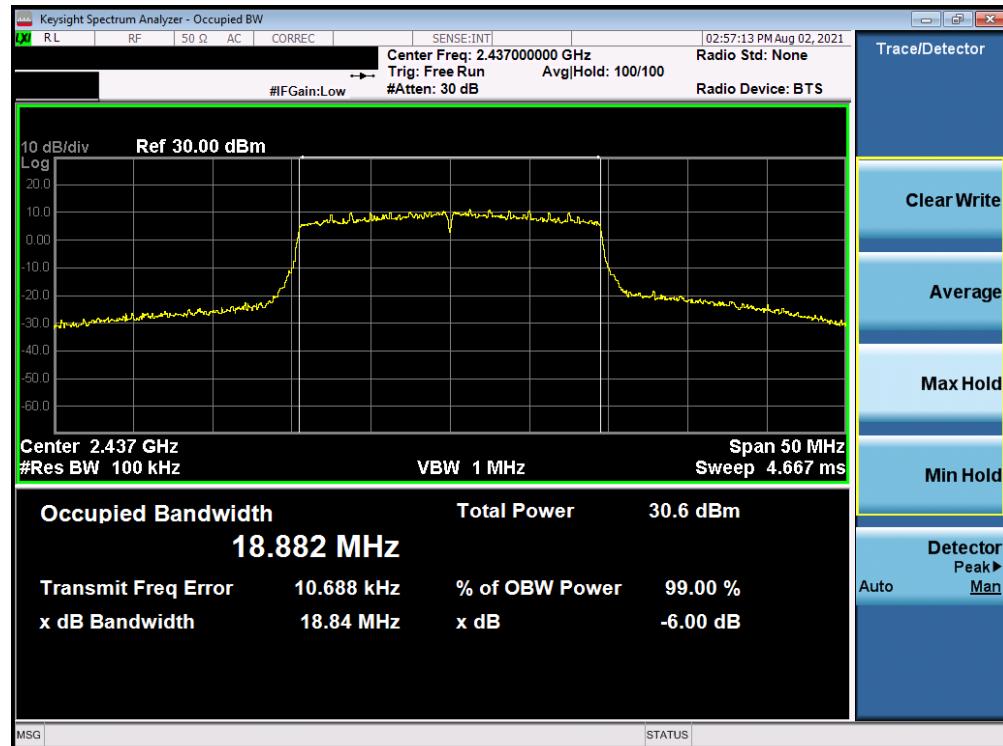


Plot 7-36. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 38 of 444	

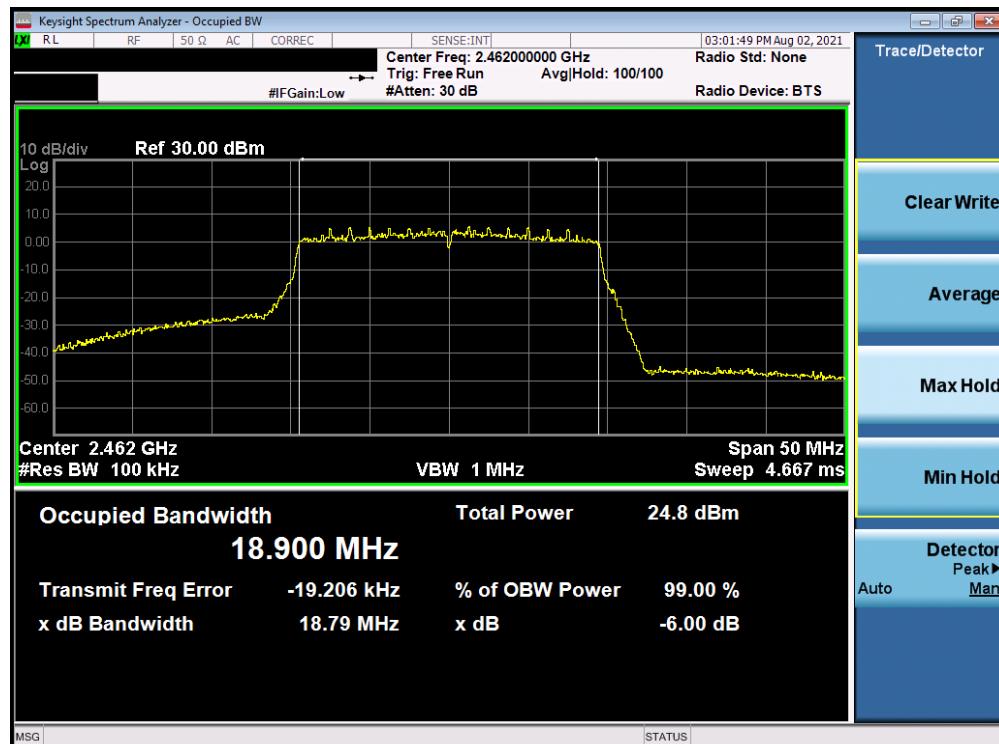


Plot 7-37. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2



Plot 7-38. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

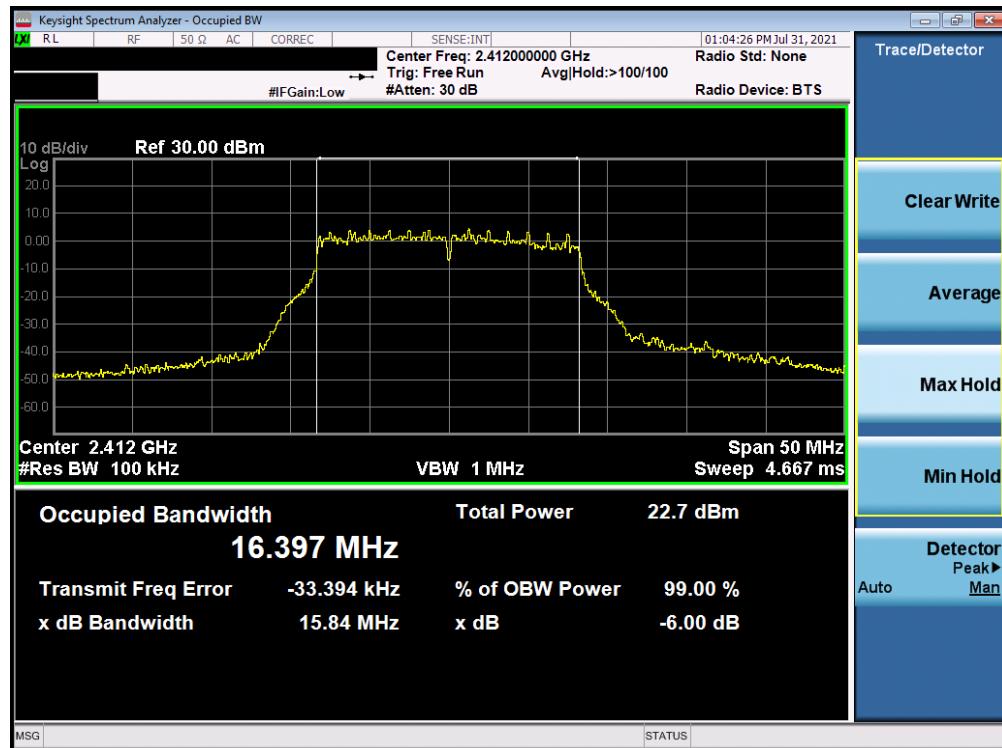
FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 39 of 444	



Plot 7-39. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 40 of 444	

Mid Data Rate

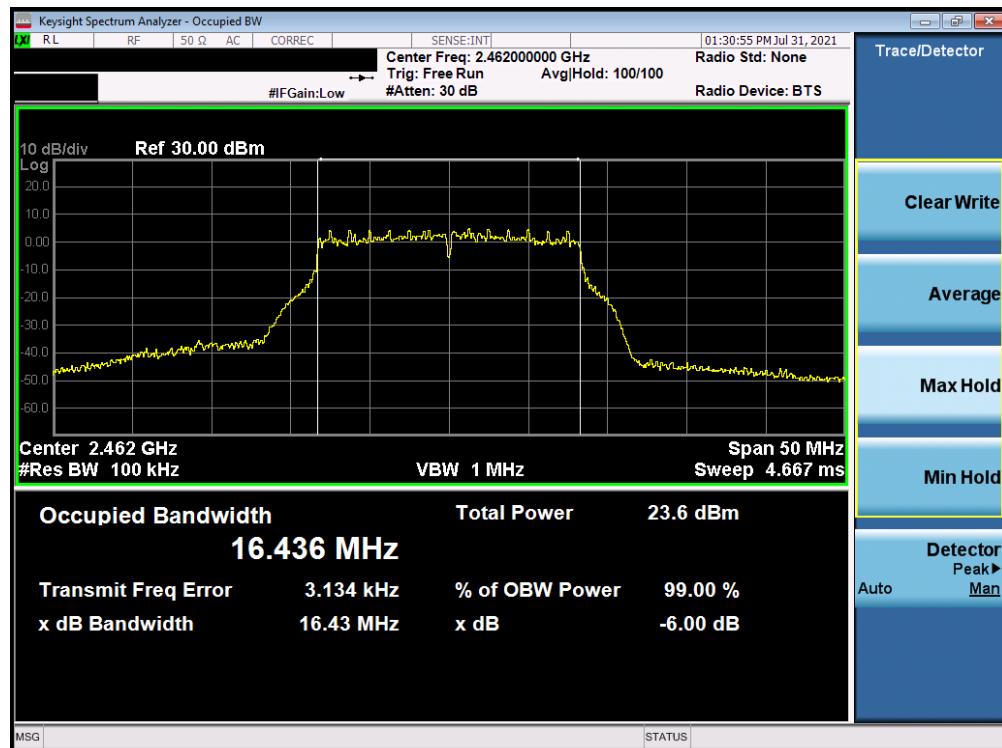


Plot 7-40. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 1) – 24Mbps

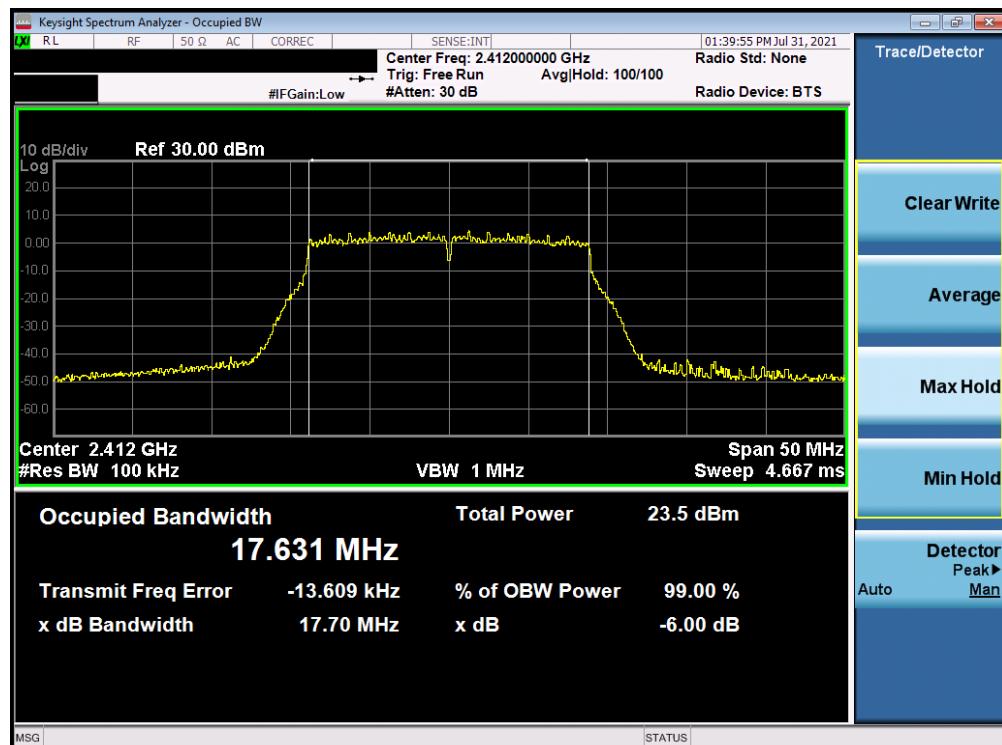


Plot 7-41. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 41 of 444	

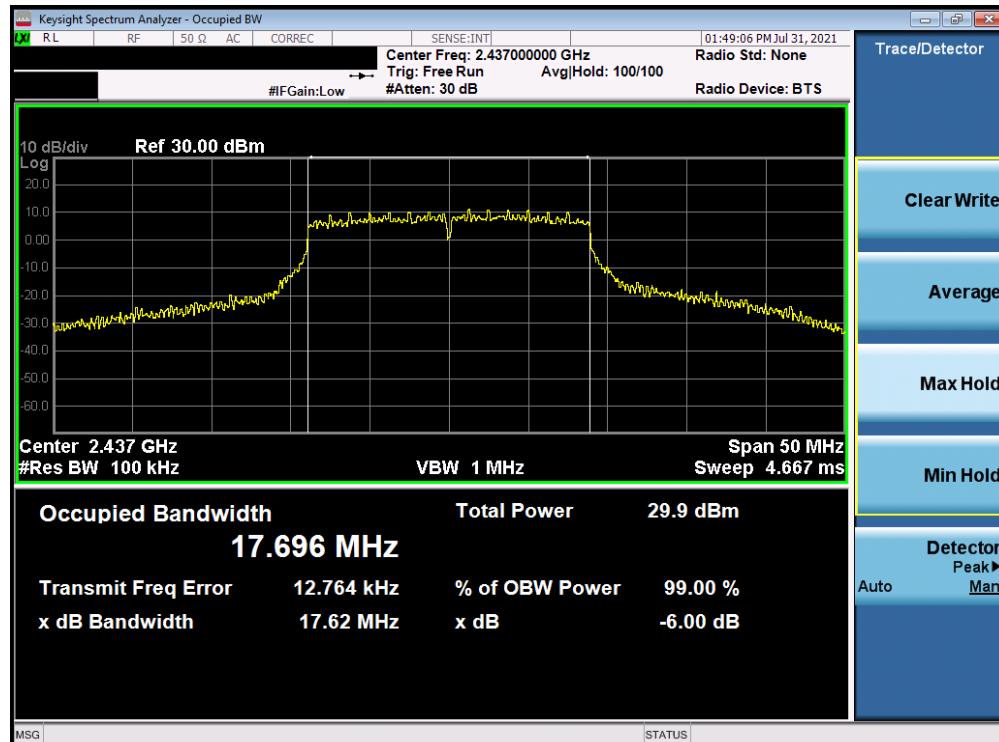


Plot 7-42. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 11) – 24Mbps

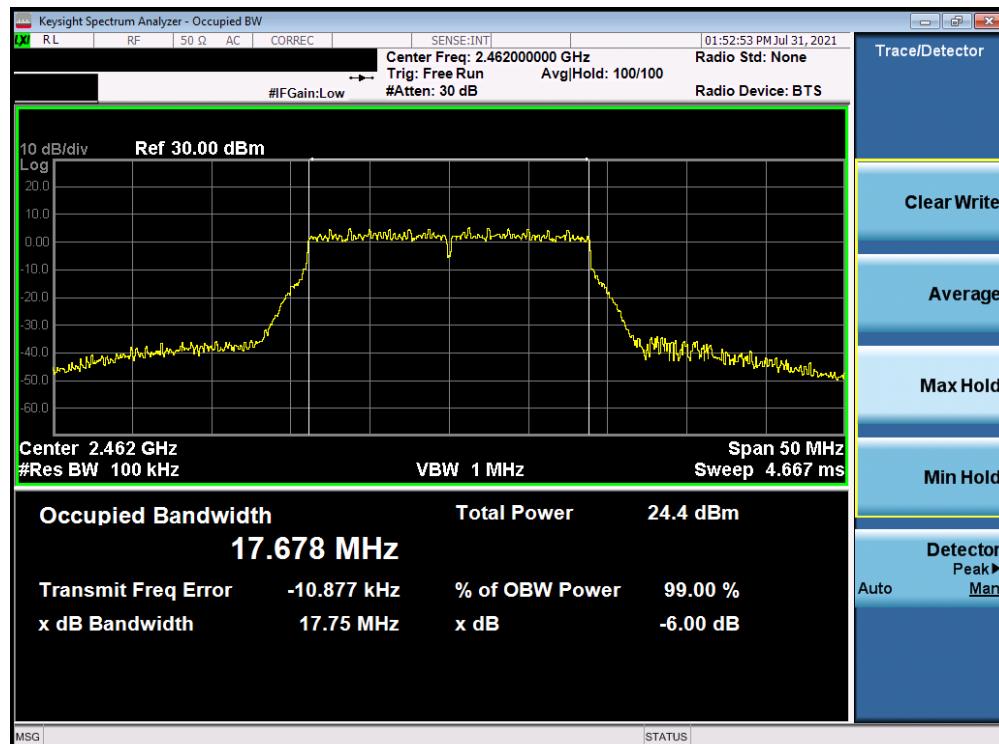


Plot 7-43. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 42 of 444

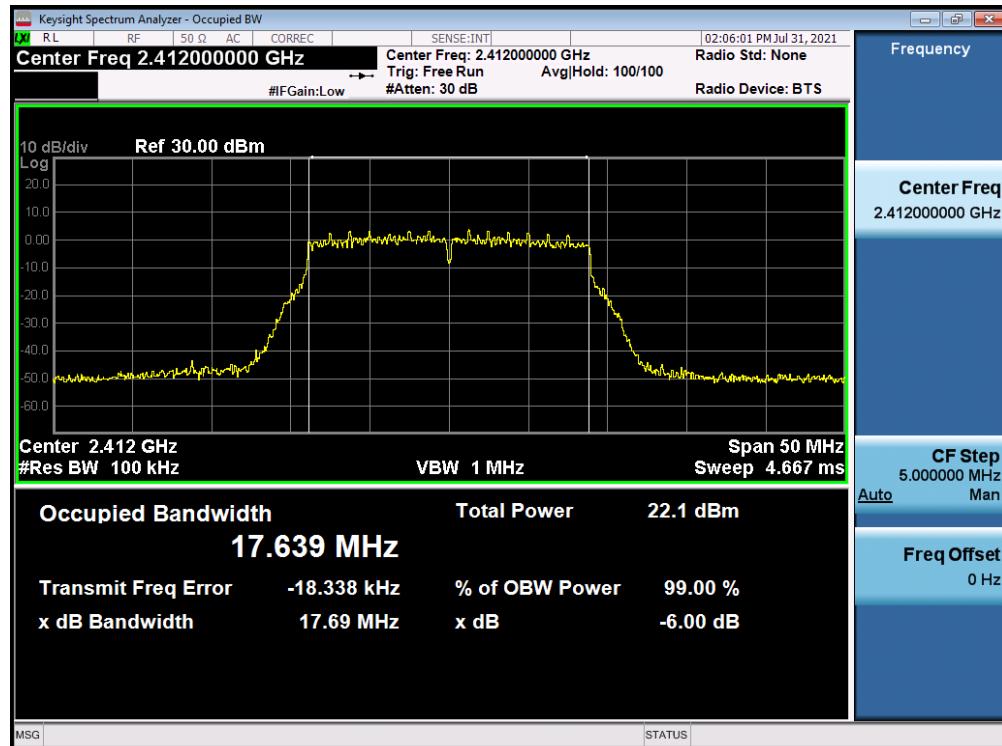


Plot 7-44. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS4

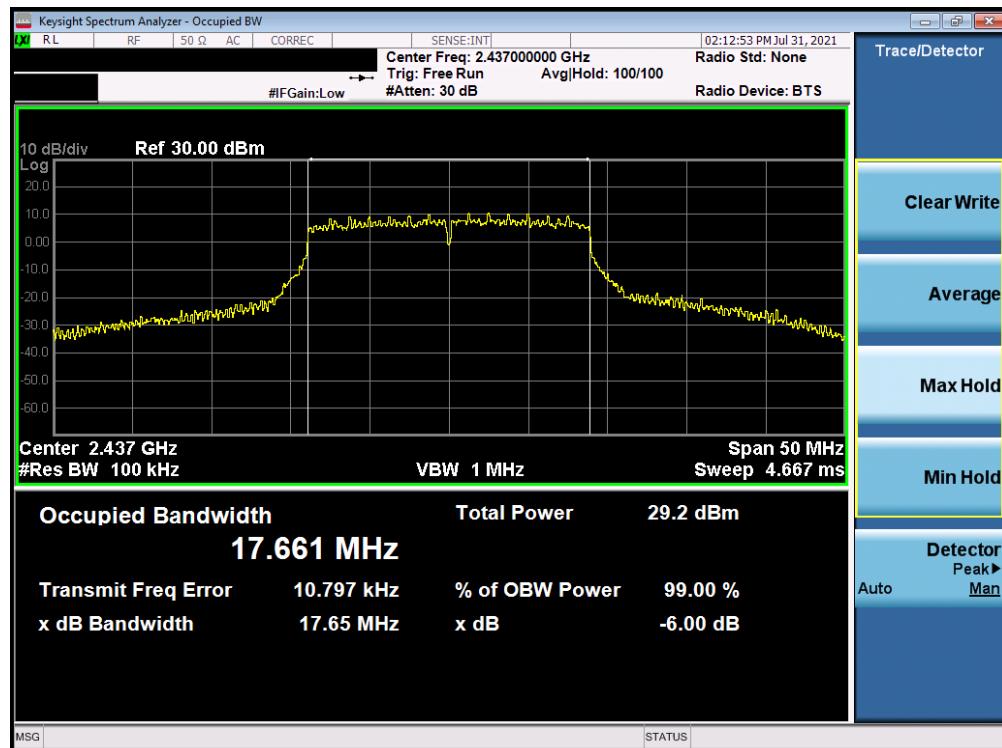


Plot 7-45. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 43 of 444	

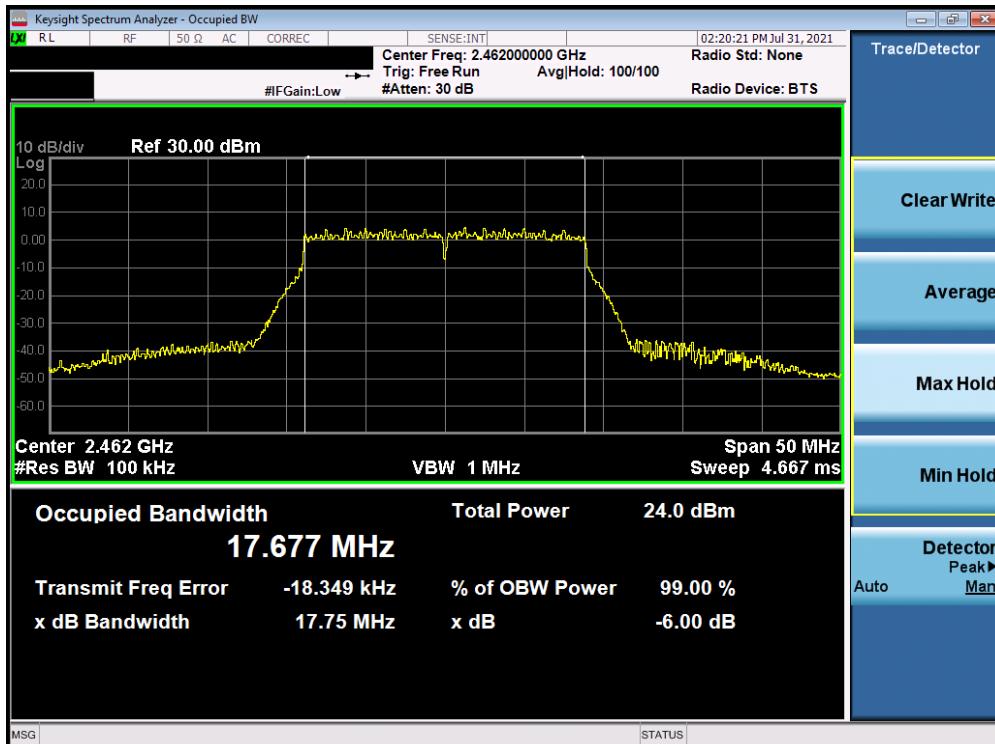


Plot 7-46. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4



Plot 7-47. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

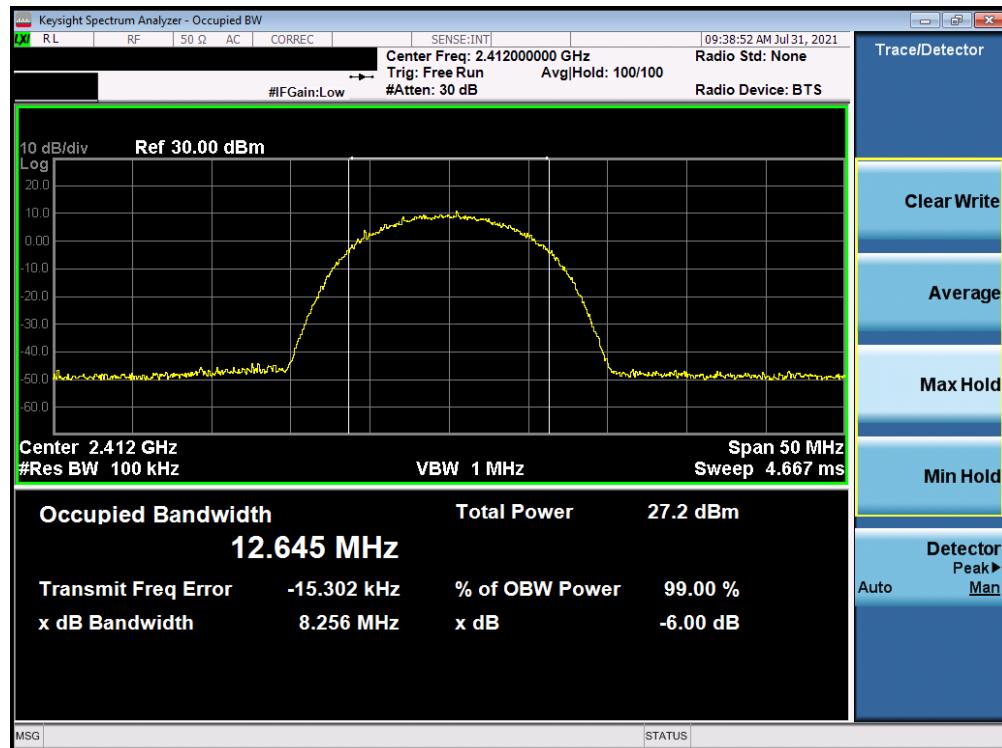
FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 44 of 444	



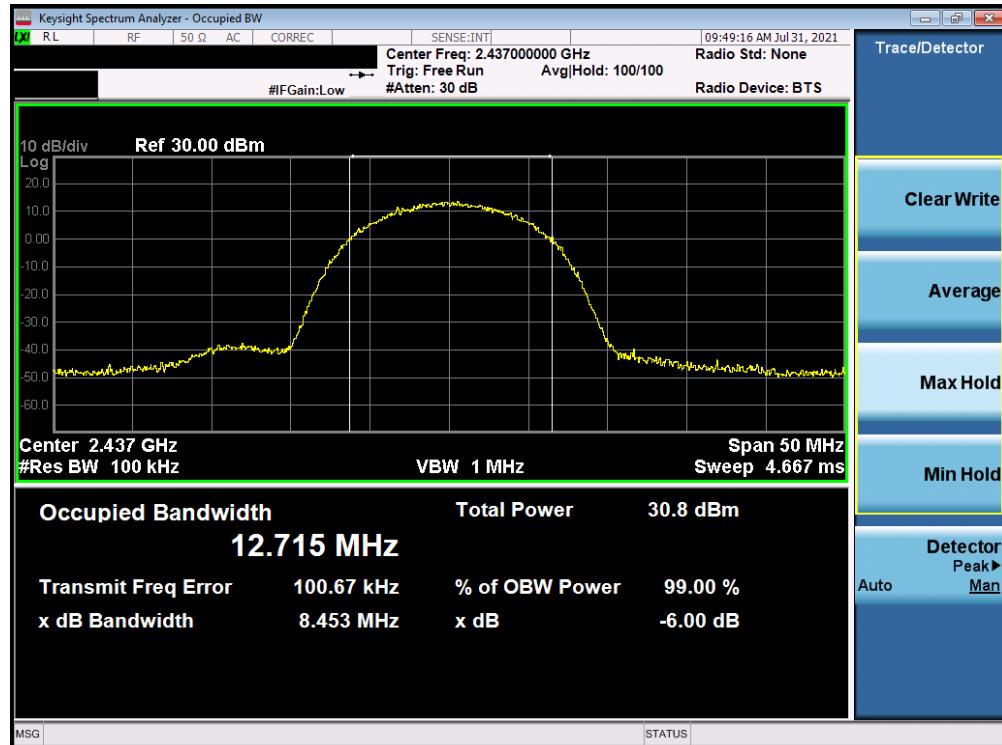
Plot 7-48. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 45 of 444

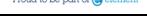
High Data Rate

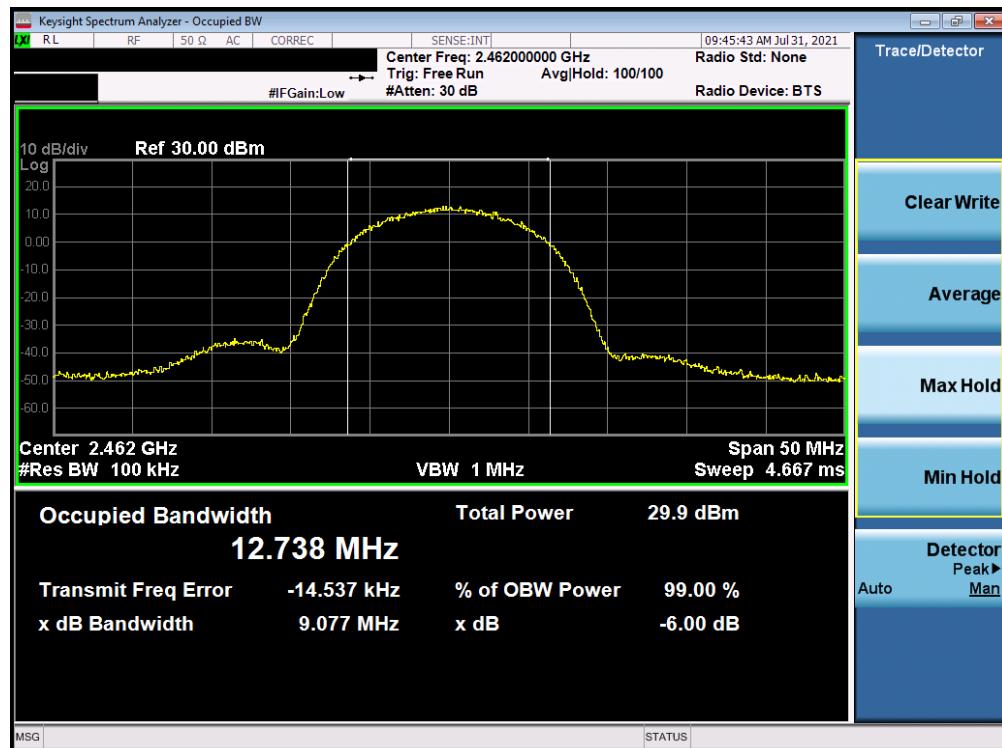


Plot 7-49. 6dB BW and 99% OBW Plot Antenna 1a (802.11b – Ch. 1) – 11Mbps

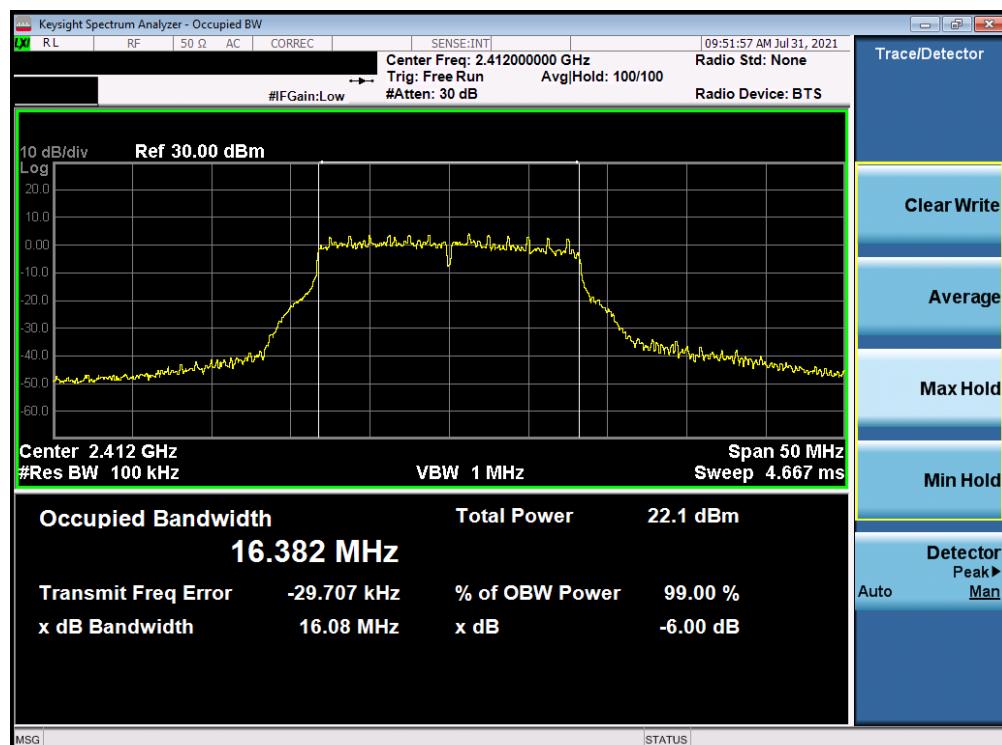


Plot 7-50. 6dB BW and 99% OBW Plot Antenna 1a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 46 of 444	

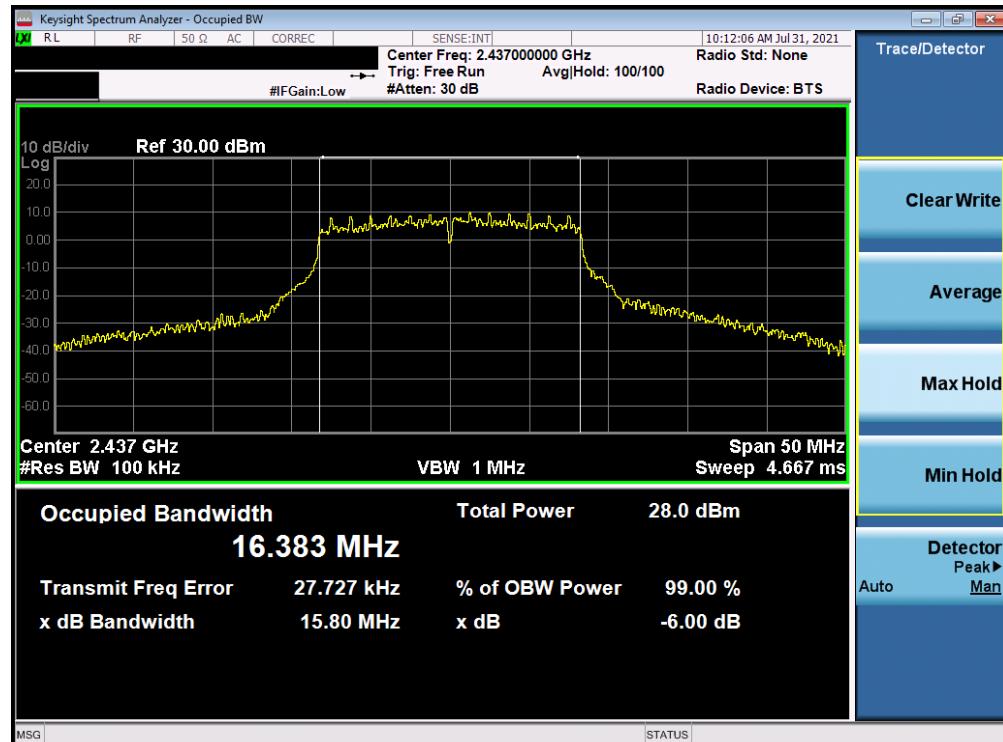


Plot 7-51. 6dB BW and 99% OBW Plot Antenna 1a (802.11b – Ch. 11) – 11Mbps

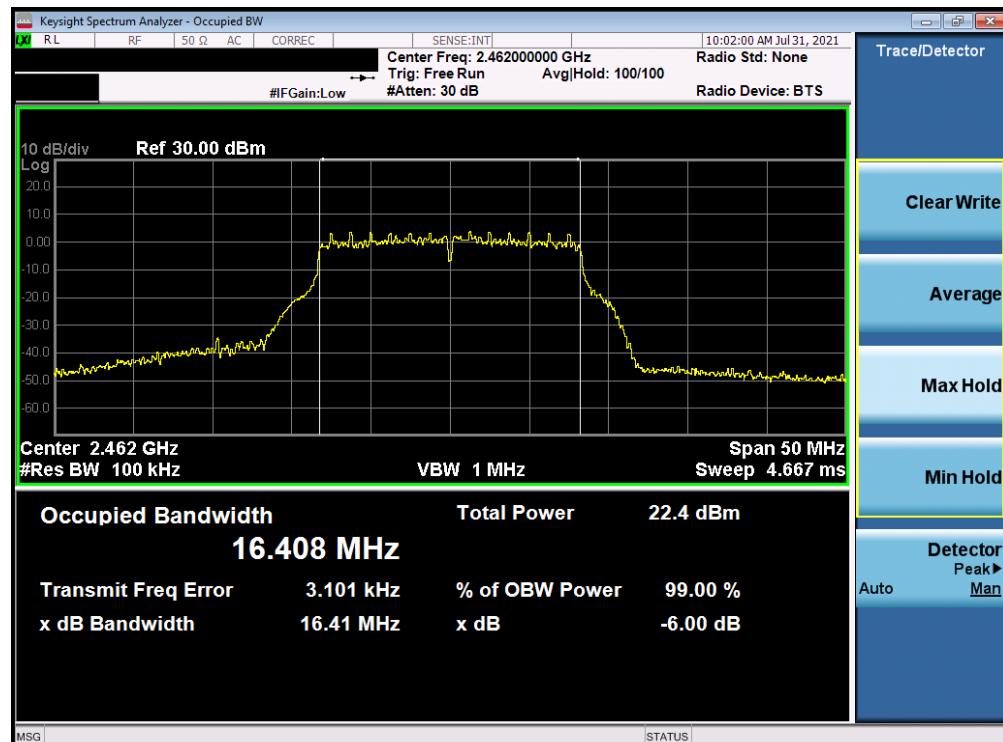


Plot 7-52. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 1) – 36Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 47 of 444	

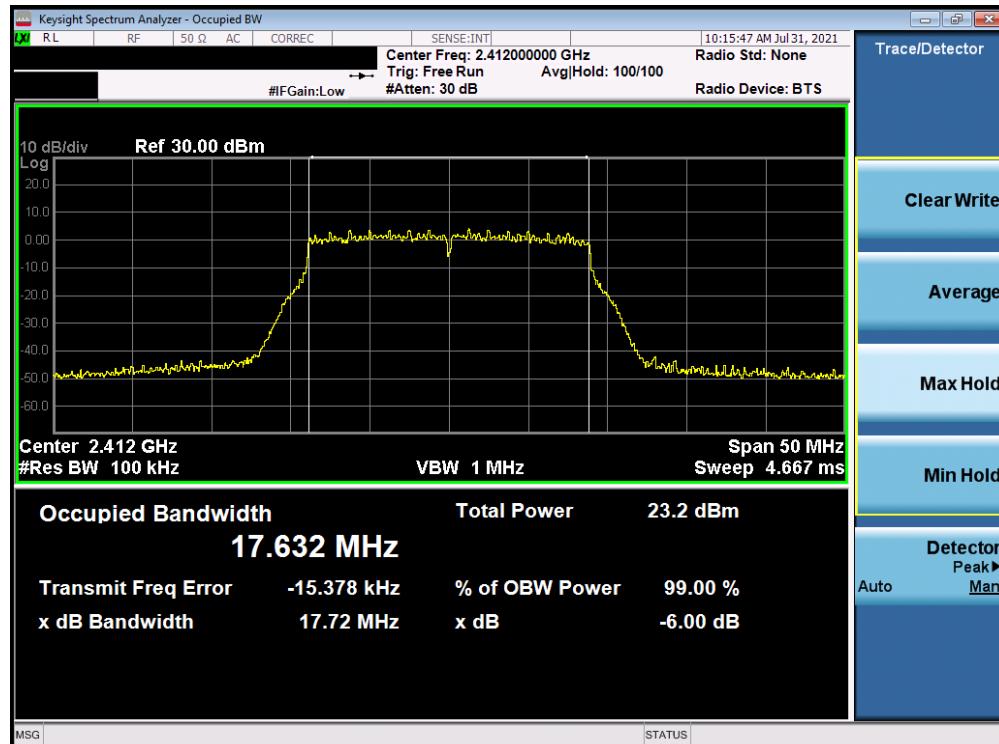


Plot 7-53. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 6) – 36Mbps

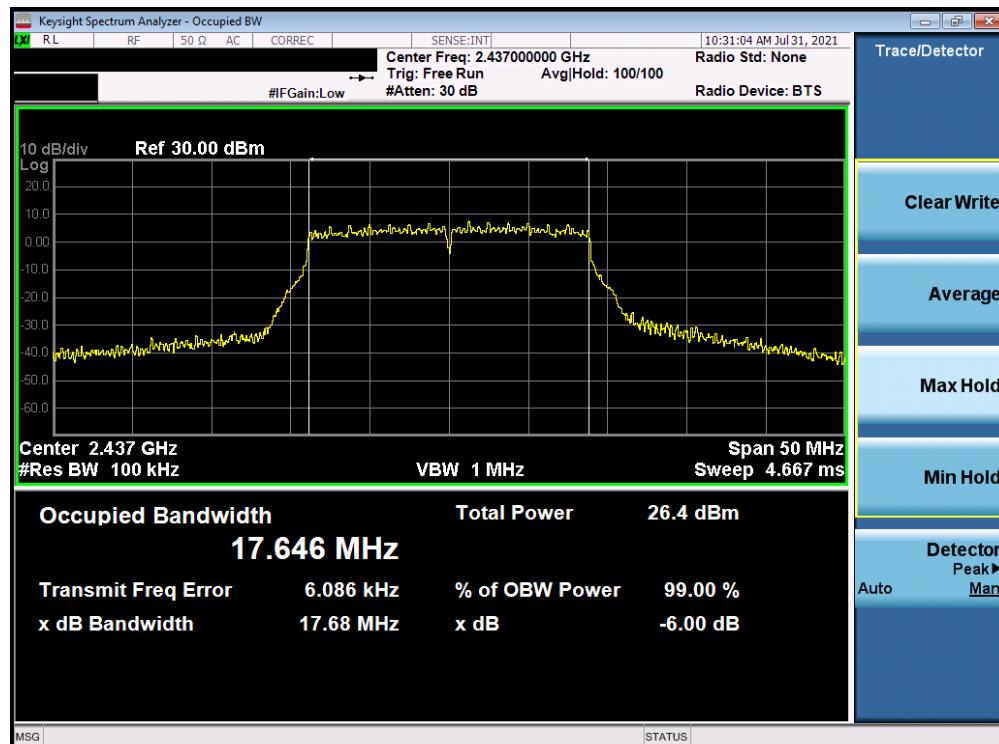


Plot 7-54. 6dB BW and 99% OBW Plot Antenna 1a (802.11g – Ch. 11) – 36Mbps

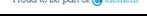
FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 48 of 444	

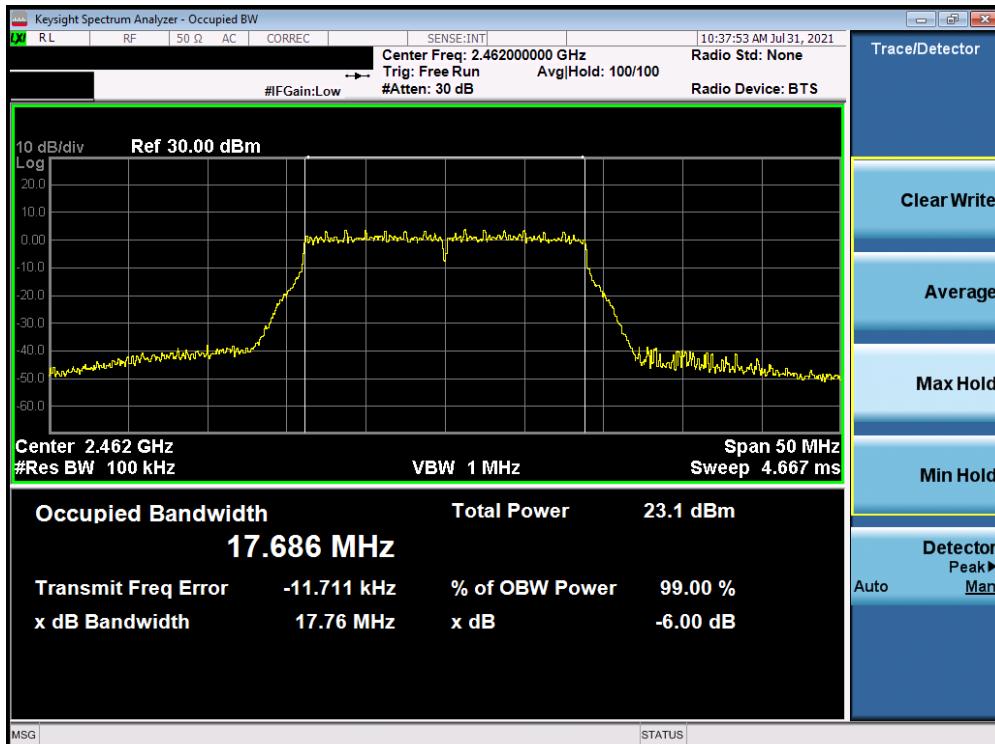


Plot 7-55. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS5

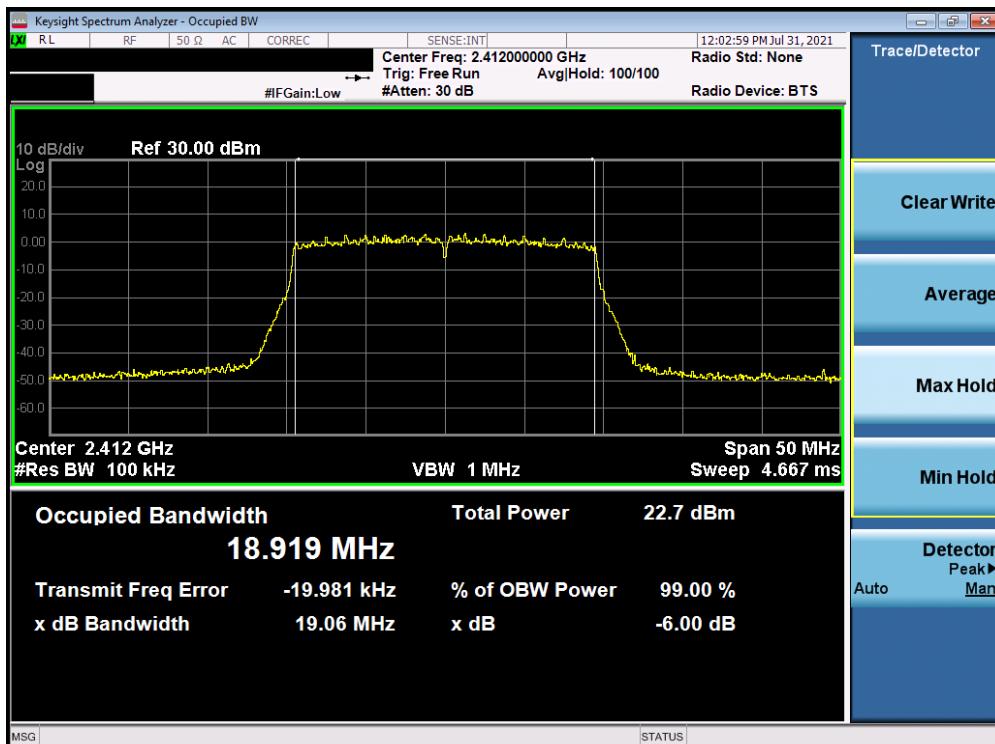


Plot 7-56. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST [®] Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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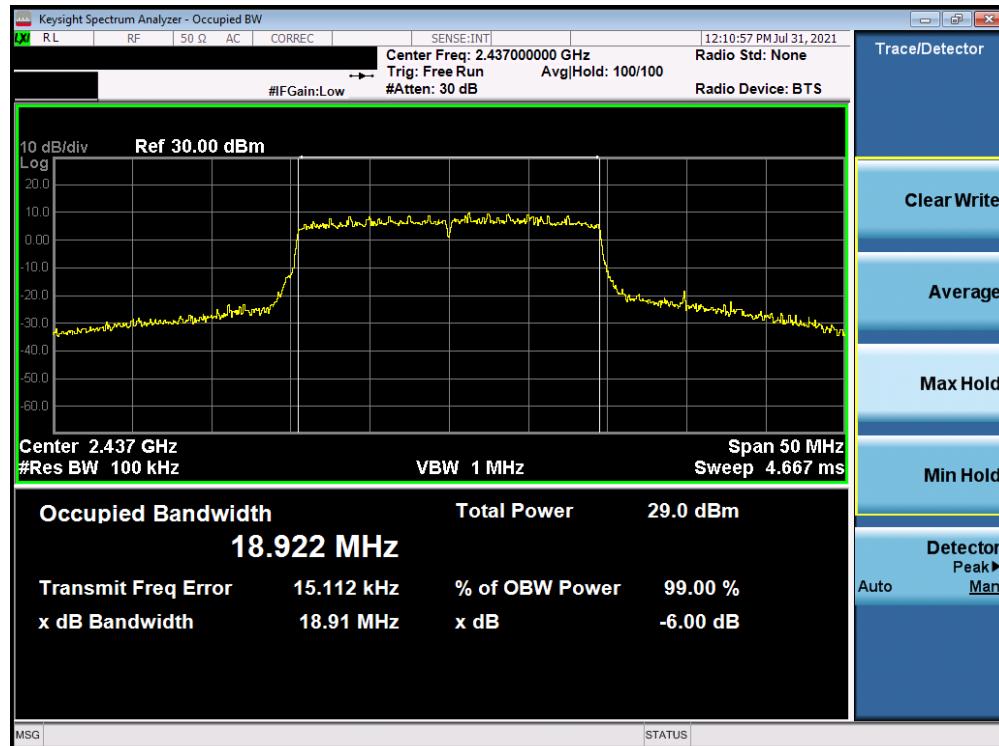


Plot 7-57. 6dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) – Ch. 11) – MCS5

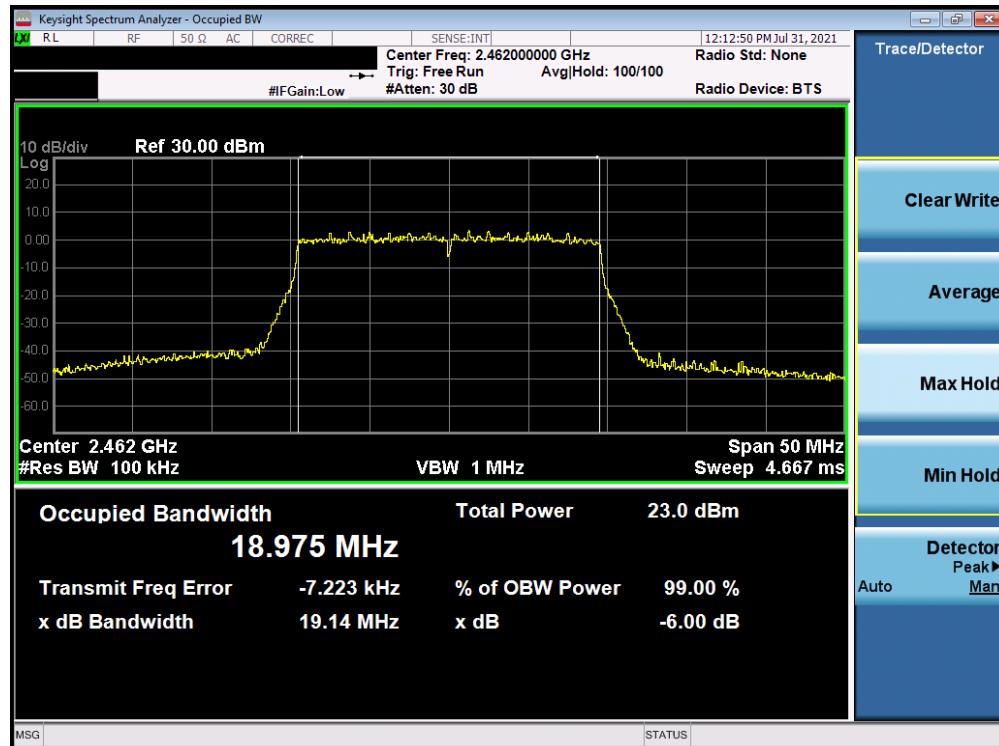


Plot 7-58. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Plot 7-59. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-60. 6dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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7.3 Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum peak conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt.

The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For DTSS employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.

Test Procedure Used

ANSI C63.10-2013 – Section 11.9.1.3 PKPM1 Peak Power Method

KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method

ANSI C63.10-2013 – Section 11.9.2.3.2 Method AVGPM-G

KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)

ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

Test Settings

Method PKPM1 (Peak Power Measurement)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

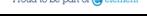
The EUT and measurement equipment were set up as shown in the diagrams below.



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

1. For 802.11b, the worst case data rate was found to be 11Mbps.
2. 802.11ax does not support channel 13.

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7.3.1 Average Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	14.25	14.20	13.94	30.00	-15.75	0.50	14.75	36.02	-21.27
2417	2	AVG	17.00	16.94	17.00	30.00	-13.00	0.50	17.50	36.02	-18.52
2422	3	AVG	17.50	17.48	17.50	30.00	-12.50	0.50	18.00	36.02	-18.02
2427	4	AVG	19.98	19.97	19.00	30.00	-10.02	0.50	20.48	36.02	-15.54
2432	5	AVG	20.49	20.43	19.81	30.00	-9.51	0.50	20.99	36.02	-15.03
2437	6	AVG	21.44	21.50	20.91	30.00	-8.50	0.50	22.00	36.02	-14.02
2442	7	AVG	19.80	20.00	19.43	30.00	-10.00	0.50	20.50	36.02	-15.52
2447	8	AVG	19.00	19.00	18.42	30.00	-11.00	0.50	19.50	36.02	-16.52
2452	9	AVG	18.50	18.43	17.95	30.00	-11.50	0.50	19.00	36.02	-17.02
2457	10	AVG	18.00	17.92	17.50	30.00	-12.00	0.50	18.50	36.02	-17.52
2462	11	AVG	16.00	15.92	15.99	30.00	-14.00	0.50	16.50	36.02	-19.52
2467	12	AVG	13.00	12.94	13.00	30.00	-17.00	0.50	13.50	36.02	-22.52
2472	13	AVG	8.00	8.00	-	30.00	-22.00	0.50	8.50	36.02	-27.52

Table 7-8. Average Conducted Output Power Measurements Antenna 3a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	14.25	14.25	14.00	30.00	-15.75	-0.40	13.85	36.02	-22.17
2417	2	AVG	17.00	16.83	16.95	30.00	-13.00	-0.40	16.60	36.02	-19.42
2422	3	AVG	17.44	17.50	17.44	30.00	-12.50	-0.40	17.10	36.02	-18.92
2427	4	AVG	19.91	20.00	18.95	30.00	-10.00	-0.40	19.60	36.02	-16.42
2432	5	AVG	20.50	20.49	19.99	30.00	-9.50	-0.40	20.10	36.02	-15.92
2437	6	AVG	21.50	21.45	20.96	30.00	-8.50	-0.40	21.10	36.02	-14.92
2442	7	AVG	19.92	20.00	19.44	30.00	-10.00	-0.40	19.60	36.02	-16.42
2447	8	AVG	18.99	18.92	18.41	30.00	-11.01	-0.40	18.59	36.02	-17.43
2452	9	AVG	18.38	18.50	18.00	30.00	-11.50	-0.40	18.10	36.02	-17.92
2457	10	AVG	18.00	18.00	17.38	30.00	-12.00	-0.40	17.60	36.02	-18.42
2462	11	AVG	15.97	15.96	16.00	30.00	-14.00	-0.40	15.60	36.02	-20.42
2467	12	AVG	13.00	12.98	13.00	30.00	-17.00	-0.40	12.60	36.02	-23.42
2472	13	AVG	7.91	7.90	-	30.00	-22.09	-0.40	7.51	36.02	-28.51

Table 7-9. Average Conducted Output Power Measurements Antenna 1a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	13.68	13.72	16.71	30.00	-13.29	3.07	19.78	36.02	-16.24
2417	2	AVG	16.74	16.96	19.86	30.00	-10.14	3.07	22.93	36.02	-13.09
2422	3	AVG	17.33	17.42	20.39	30.00	-9.61	3.07	23.46	36.02	-12.56
2427	4	AVG	18.84	18.93	21.90	30.00	-8.10	3.07	24.97	36.02	-11.05
2432	5	AVG	19.79	19.91	22.86	30.00	-7.14	3.07	25.93	36.02	-10.09
2437	6	AVG	20.37	20.34	23.37	30.00	-6.63	3.07	26.44	36.02	-9.58
2442	7	AVG	19.00	18.87	21.95	30.00	-8.05	3.07	25.02	36.02	-11.00
2447	8	AVG	18.17	18.05	21.12	30.00	-8.88	3.07	24.19	36.02	-11.83
2452	9	AVG	17.74	17.73	20.75	30.00	-9.25	3.07	23.82	36.02	-12.20
2457	10	AVG	17.22	17.48	20.36	30.00	-9.64	3.07	23.43	36.02	-12.59
2462	11	AVG	15.36	15.25	18.32	30.00	-11.68	3.07	21.39	36.02	-14.63
2467	12	AVG	11.71	11.72	14.73	30.00	-15.27	3.07	17.80	36.02	-18.22
2472	13	AVG	7.47	7.39	10.44	30.00	-19.56	3.07	13.51	36.02	-22.51

Table 7-10. Average Conducted Output Power Measurements CDD (802.11g) – Low Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	13.75	13.75	16.76	30.00	-13.24	3.07	19.83	36.02	-16.19
2417	2	AVG	17.00	16.91	19.97	30.00	-10.03	3.07	23.04	36.02	-12.98
2422	3	AVG	17.50	17.50	20.51	30.00	-9.49	3.07	23.58	36.02	-12.44
2427	4	AVG	18.90	18.90	21.91	30.00	-8.09	3.07	24.98	36.02	-11.04
2432	5	AVG	19.96	20.00	22.99	30.00	-7.01	3.07	26.06	36.02	-9.96
2437	6	AVG	20.48	20.50	23.50	30.00	-6.50	3.07	26.57	36.02	-9.45
2442	7	AVG	18.96	19.00	21.99	30.00	-8.01	3.07	25.06	36.02	-10.96
2447	8	AVG	18.16	18.17	21.18	30.00	-8.82	3.07	24.25	36.02	-11.77
2452	9	AVG	18.00	18.00	21.01	30.00	-8.99	3.07	24.08	36.02	-11.94
2457	10	AVG	17.46	17.45	20.47	30.00	-9.53	3.07	23.54	36.02	-12.48
2462	11	AVG	15.50	15.50	18.51	30.00	-11.49	3.07	21.58	36.02	-14.44
2467	12	AVG	12.00	11.98	15.00	30.00	-15.00	3.07	18.07	36.02	-17.95
2472	13	AVG	7.47	7.41	10.45	30.00	-19.55	3.07	13.52	36.02	-22.50

Table 7-11. Average Conducted Output Power Measurements CDD (802.11n) – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	13.25	13.25	16.26	30.00	-13.74	3.07	19.33	36.02	-16.69
2417	2	AVG	16.91	16.90	19.92	30.00	-10.08	3.07	22.99	36.02	-13.03
2422	3	AVG	17.50	17.42	20.47	30.00	-9.53	3.07	23.54	36.02	-12.48
2427	4	AVG	18.75	18.70	21.74	30.00	-8.26	3.07	24.81	36.02	-11.21
2432	5	AVG	19.50	19.47	22.50	30.00	-7.50	3.07	25.57	36.02	-10.45
2437	6	AVG	20.50	20.48	23.50	30.00	-6.50	3.07	26.57	36.02	-9.45
2442	7	AVG	18.75	18.72	21.75	30.00	-8.25	3.07	24.82	36.02	-11.20
2447	8	AVG	18.00	17.92	20.97	30.00	-9.03	3.07	24.04	36.02	-11.98
2452	9	AVG	17.50	17.50	20.51	30.00	-9.49	3.07	23.58	36.02	-12.44
2457	10	AVG	17.00	16.90	19.96	30.00	-10.04	3.07	23.03	36.02	-12.99
2462	11	AVG	15.00	14.95	17.99	30.00	-12.01	3.07	21.06	36.02	-14.96
2467	12	AVG	11.91	12.00	14.97	30.00	-15.03	3.07	18.04	36.02	-17.98

Table 7-12. Average Conducted Output Power Measurements CDD (802.11ax - SU) – Low Data Rate

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Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	13.88	13.93	13.41	30.00	-16.07	0.50	14.43	36.02	-21.59
2417	2	AVG	16.89	16.78	16.85	30.00	-13.11	0.50	17.39	36.02	-18.63
2422	3	AVG	17.39	17.34	17.30	30.00	-12.61	0.50	17.89	36.02	-18.13
2427	4	AVG	18.94	18.92	18.41	30.00	-11.06	0.50	19.44	36.02	-16.58
2432	5	AVG	19.87	19.78	19.38	30.00	-10.13	0.50	20.37	36.02	-15.65
2437	6	AVG	20.90	20.77	20.44	30.00	-9.10	0.50	21.40	36.02	-14.62
2442	7	AVG	19.32	19.40	19.09	30.00	-10.60	0.50	19.90	36.02	-16.12
2447	8	AVG	18.30	18.49	17.89	30.00	-11.51	0.50	18.99	36.02	-17.03
2452	9	AVG	17.81	17.86	17.50	30.00	-12.14	0.50	18.36	36.02	-17.66
2457	10	AVG	17.39	17.39	16.96	30.00	-12.61	0.50	17.89	36.02	-18.13
2462	11	AVG	15.42	15.22	15.00	30.00	-14.58	0.50	15.92	36.02	-20.10
2467	12	AVG	12.46	12.43	12.00	30.00	-17.54	0.50	12.96	36.02	-23.06
2472	13	AVG	7.49	7.26	-	30.00	-22.51	0.50	7.99	36.02	-28.03

Table 7-13. Average Conducted Output Power Measurements Antenna 3a – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	13.94	13.99	13.44	30.00	-16.01	-0.40	13.59	36.02	-22.43
2417	2	AVG	17.00	17.00	17.00	30.00	-13.00	-0.40	16.60	36.02	-19.42
2422	3	AVG	17.46	17.50	17.50	30.00	-12.50	-0.40	17.10	36.02	-18.92
2427	4	AVG	19.00	18.95	18.46	30.00	-11.00	-0.40	18.60	36.02	-17.42
2432	5	AVG	19.93	20.00	19.50	30.00	-10.00	-0.40	19.60	36.02	-16.42
2437	6	AVG	21.00	21.00	20.50	30.00	-9.00	-0.40	20.60	36.02	-15.42
2442	7	AVG	19.50	19.45	19.18	30.00	-10.50	-0.40	19.10	36.02	-16.92
2447	8	AVG	18.38	18.46	17.97	30.00	-11.54	-0.40	18.06	36.02	-17.96
2452	9	AVG	18.00	17.94	17.47	30.00	-12.00	-0.40	17.60	36.02	-18.42
2457	10	AVG	17.32	17.45	17.00	30.00	-12.55	-0.40	17.05	36.02	-18.97
2462	11	AVG	15.50	15.50	14.96	30.00	-14.50	-0.40	15.10	36.02	-20.92
2467	12	AVG	12.42	12.49	12.00	30.00	-17.51	-0.40	12.09	36.02	-23.93
2472	13	AVG	7.50	7.41	-	30.00	-22.50	-0.40	7.10	36.02	-28.92

Table 7-14. Average Conducted Output Power Measurements Antenna 1a – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	13.32	13.42	16.38	30.00	-13.62	3.07	19.45	36.02	-16.57
2417	2	AVG	16.81	16.84	19.84	30.00	-10.16	3.07	22.91	36.02	-13.11
2422	3	AVG	17.40	17.30	20.36	30.00	-9.64	3.07	23.43	36.02	-12.59
2427	4	AVG	18.25	18.21	21.24	30.00	-8.76	3.07	24.31	36.02	-11.71
2432	5	AVG	18.95	18.71	21.84	30.00	-8.16	3.07	24.91	36.02	-11.11
2437	6	AVG	19.83	19.88	22.87	30.00	-7.13	3.07	25.94	36.02	-10.08
2442	7	AVG	18.21	18.44	21.34	30.00	-8.66	3.07	24.41	36.02	-11.61
2447	8	AVG	17.22	17.25	20.25	30.00	-9.75	3.07	23.32	36.02	-12.70
2452	9	AVG	17.22	16.99	20.12	30.00	-9.88	3.07	23.19	36.02	-12.83
2457	10	AVG	16.98	16.82	19.91	30.00	-10.09	3.07	22.98	36.02	-13.04
2462	11	AVG	14.47	14.33	17.41	30.00	-12.59	3.07	20.48	36.02	-15.54
2467	12	AVG	11.42	11.48	14.46	30.00	-15.54	3.07	17.53	36.02	-18.49
2472	13	AVG	6.86	6.82	9.85	30.00	-20.15	3.07	12.92	36.02	-23.10

Table 7-15. Average Conducted Output Power Measurements CDD (802.11g) – Mid Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	13.34	13.22	16.29	30.00	-13.71	3.07	19.36	36.02	-16.66
2417	2	AVG	16.90	17.00	19.96	30.00	-10.04	3.07	23.03	36.02	-12.99
2422	3	AVG	17.20	17.50	20.36	30.00	-9.64	3.07	23.43	36.02	-12.59
2427	4	AVG	18.40	18.34	21.38	30.00	-8.62	3.07	24.45	36.02	-11.57
2432	5	AVG	18.90	18.89	21.91	30.00	-8.09	3.07	24.98	36.02	-11.04
2437	6	AVG	19.95	20.00	22.99	30.00	-7.01	3.07	26.06	36.02	-9.96
2442	7	AVG	18.50	18.50	21.51	30.00	-8.49	3.07	24.58	36.02	-11.44
2447	8	AVG	17.40	17.50	20.46	30.00	-9.54	3.07	23.53	36.02	-12.49
2452	9	AVG	17.16	17.25	20.22	30.00	-9.78	3.07	23.29	36.02	-12.73
2457	10	AVG	16.88	16.92	19.91	30.00	-10.09	3.07	22.98	36.02	-13.04
2462	11	AVG	14.50	14.32	17.42	30.00	-12.58	3.07	20.49	36.02	-15.53
2467	12	AVG	11.40	11.31	14.37	30.00	-15.63	3.07	17.44	36.02	-18.58
2472	13	AVG	6.95	6.92	9.95	30.00	-20.05	3.07	13.02	36.02	-23.00

Table 7-16. Average Conducted Output Power Measurements CDD (802.11n) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	12.59	12.71	15.66	30.00	-14.34	3.07	18.73	36.02	-17.29
2417	2	AVG	16.34	16.50	19.43	30.00	-10.57	3.07	22.50	36.02	-13.52
2422	3	AVG	17.50	17.50	20.51	30.00	-9.49	3.07	23.58	36.02	-12.44
2427	4	AVG	18.00	18.00	21.01	30.00	-8.99	3.07	24.08	36.02	-11.94
2432	5	AVG	18.91	18.97	21.95	30.00	-8.05	3.07	25.02	36.02	-11.00
2437	6	AVG	19.97	19.89	22.94	30.00	-7.06	3.07	26.01	36.02	-10.01
2442	7	AVG	18.08	18.20	21.15	30.00	-8.85	3.07	24.22	36.02	-11.80
2447	8	AVG	17.39	17.28	20.35	30.00	-9.65	3.07	23.42	36.02	-12.60
2452	9	AVG	16.58	16.65	19.63	30.00	-10.37	3.07	22.70	36.02	-13.32
2457	10	AVG	16.47	16.49	19.49	30.00	-10.51	3.07	22.56	36.02	-13.46
2462	11	AVG	13.87	13.88	16.89	30.00	-13.11	3.07	19.96	36.02	-16.06
2467	12	AVG	11.38	11.43	14.42	30.00	-15.58	3.07	17.49	36.02	-18.53

Table 7-17. Average Conducted Output Power Measurements CDD (802.11ax - SU) – Mid Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 56 of 444

High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	16.92	13.66	13.67	13.00	30.00	-13.08	0.50	17.42	36.02	-18.60
2417	2	AVG	17.21	17.00	17.00	16.39	30.00	-12.79	0.50	17.71	36.02	-18.31
2422	3	AVG	20.25	17.50	17.50	17.49	30.00	-9.75	0.50	20.75	36.02	-15.27
2427	4	AVG	21.00	18.36	18.43	17.98	30.00	-9.00	0.50	21.50	36.02	-14.52
2432	5	AVG	21.00	19.50	19.43	18.92	30.00	-9.00	0.50	21.50	36.02	-14.52
2437	6	AVG	20.98	19.96	19.92	19.91	30.00	-9.02	0.50	21.48	36.02	-14.54
2442	7	AVG	20.78	19.00	18.97	18.40	30.00	-9.22	0.50	21.28	36.02	-14.74
2447	8	AVG	21.00	17.96	17.96	17.25	30.00	-9.00	0.50	21.50	36.02	-14.52
2452	9	AVG	20.98	17.50	17.39	16.94	30.00	-9.02	0.50	21.48	36.02	-14.54
2457	10	AVG	20.70	16.49	16.49	15.86	30.00	-9.30	0.50	21.20	36.02	-14.82
2462	11	AVG	20.46	14.50	14.44	14.00	30.00	-9.54	0.50	20.96	36.02	-15.06
2467	12	AVG	18.50	11.99	12.00	11.64	30.00	-11.50	0.50	19.00	36.02	-17.02
2472	13	AVG	14.98	7.00	6.97	-	30.00	-15.02	0.50	15.48	36.02	-20.54

Table 7-18. Average Conducted Output Power Measurements Antenna 3a – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	AVG	17.00	13.57	13.72	13.00	30.00	-13.00	-0.40	16.60	36.02	-19.42
2417	2	AVG	17.25	17.00	16.97	16.47	30.00	-12.75	-0.40	16.85	36.02	-19.17
2422	3	AVG	20.10	17.42	17.44	17.50	30.00	-9.90	-0.40	19.70	36.02	-16.32
2427	4	AVG	20.75	18.49	18.48	17.96	30.00	-9.25	-0.40	20.35	36.02	-15.67
2432	5	AVG	21.00	19.45	19.50	19.00	30.00	-9.00	-0.40	20.60	36.02	-15.42
2437	6	AVG	21.00	19.88	19.97	19.94	30.00	-9.00	-0.40	20.60	36.02	-15.42
2442	7	AVG	21.00	19.00	19.00	18.50	30.00	-9.00	-0.40	20.60	36.02	-15.42
2447	8	AVG	21.00	18.00	17.77	17.12	30.00	-9.00	-0.40	20.60	36.02	-15.42
2452	9	AVG	21.00	17.46	17.50	17.00	30.00	-9.00	-0.40	20.60	36.02	-15.42
2457	10	AVG	20.57	16.48	16.45	16.00	30.00	-9.43	-0.40	20.17	36.02	-15.85
2462	11	AVG	20.32	14.50	14.50	13.94	30.00	-9.68	-0.40	19.92	36.02	-16.10
2467	12	AVG	18.47	11.98	11.97	11.75	30.00	-11.53	-0.40	18.07	36.02	-17.95
2472	13	AVG	14.91	7.00	6.91	-	30.00	-15.09	-0.40	14.51	36.02	-21.51

Table 7-19. Average Conducted Output Power Measurements Antenna 1a – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	12.91	12.97	15.95	30.00	-14.05	3.07	19.02	36.02	-17.00
2417	2	AVG	16.23	16.25	19.25	30.00	-10.75	3.07	22.32	36.02	-13.70
2422	3	AVG	17.45	17.49	20.48	30.00	-9.52	3.07	23.55	36.02	-12.47
2427	4	AVG	17.90	17.93	20.93	30.00	-9.07	3.07	24.00	36.02	-12.02
2432	5	AVG	18.41	18.39	21.41	30.00	-8.59	3.07	24.48	36.02	-11.54
2437	6	AVG	19.40	19.40	22.41	30.00	-7.59	3.07	25.48	36.02	-10.54
2442	7	AVG	17.86	17.79	20.84	30.00	-9.16	3.07	23.91	36.02	-12.11
2447	8	AVG	16.95	16.88	19.93	30.00	-10.07	3.07	23.00	36.02	-13.02
2452	9	AVG	16.31	16.34	19.34	30.00	-10.66	3.07	22.41	36.02	-13.61
2457	10	AVG	16.25	16.19	19.23	30.00	-10.77	3.07	22.30	36.02	-13.72
2462	11	AVG	13.66	13.45	16.57	30.00	-13.43	3.07	19.64	36.02	-16.38
2467	12	AVG	11.00	10.86	13.94	30.00	-16.06	3.07	17.01	36.02	-19.01
2472	13	AVG	6.40	6.45	9.44	30.00	-20.56	3.07	12.51	36.02	-23.51

Table 7-20. Average Conducted Output Power Measurements CDD (802.11g) – High Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 57 of 444

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	13.00	12.98	16.00	30.00	-14.00	3.07	19.07	36.02	-16.95
2417	2	AVG	16.25	16.16	19.22	30.00	-10.78	3.07	22.29	36.02	-13.73
2422	3	AVG	17.50	17.50	20.51	30.00	-9.49	3.07	23.58	36.02	-12.44
2427	4	AVG	18.00	18.00	21.01	30.00	-8.99	3.07	24.08	36.02	-11.94
2432	5	AVG	18.50	18.44	21.48	30.00	-8.52	3.07	24.55	36.02	-11.47
2437	6	AVG	19.43	19.50	22.48	30.00	-7.52	3.07	25.55	36.02	-10.47
2442	7	AVG	18.00	17.98	21.00	30.00	-9.00	3.07	24.07	36.02	-11.95
2447	8	AVG	16.98	16.93	19.97	30.00	-10.03	3.07	23.04	36.02	-12.98
2452	9	AVG	16.50	16.50	19.51	30.00	-10.49	3.07	22.58	36.02	-13.44
2457	10	AVG	16.25	16.25	19.26	30.00	-10.74	3.07	22.33	36.02	-13.69
2462	11	AVG	13.73	13.75	16.75	30.00	-13.25	3.07	19.82	36.02	-16.20
2467	12	AVG	11.00	10.98	14.00	30.00	-16.00	3.07	17.07	36.02	-18.95
2472	13	AVG	6.50	6.32	9.42	30.00	-20.58	3.07	12.49	36.02	-23.53

Table 7-21. Average Conducted Output Power Measurements CDD (802.11n) – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	AVG	12.50	12.47	15.50	30.00	-14.50	3.07	18.57	36.02	-17.45
2417	2	AVG	16.00	15.91	18.97	30.00	-11.03	3.07	22.04	36.02	-13.98
2422	3	AVG	17.42	17.40	20.42	30.00	-9.58	3.07	23.49	36.02	-12.53
2427	4	AVG	17.48	17.46	20.48	30.00	-9.52	3.07	23.55	36.02	-12.47
2432	5	AVG	18.50	18.47	21.50	30.00	-8.50	3.07	24.57	36.02	-11.45
2437	6	AVG	19.45	19.35	22.41	30.00	-7.59	3.07	25.48	36.02	-10.54
2442	7	AVG	18.00	18.00	21.01	30.00	-8.99	3.07	24.08	36.02	-11.94
2447	8	AVG	16.46	16.50	19.49	30.00	-10.51	3.07	22.56	36.02	-13.46
2452	9	AVG	16.00	15.93	18.98	30.00	-11.02	3.07	22.05	36.02	-13.97
2457	10	AVG	15.39	15.35	18.38	30.00	-11.62	3.07	21.45	36.02	-14.57
2462	11	AVG	13.39	13.43	16.42	30.00	-13.58	3.07	19.49	36.02	-16.53
2467	12	AVG	10.92	10.97	13.96	30.00	-16.04	3.07	17.03	36.02	-18.99

Table 7-22. Average Conducted Output Power Measurements CDD (802.11ax - SU) – High Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 58 of 444

7.3.2 Peak Output Power Measurement

§15.247(b.3); RSS-247 [5.4]

Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	18.85	18.67	18.05	30.00	-11.15	0.50	19.35	36.02	-16.67
2417	2	PEAK	21.35	21.36	21.36	30.00	-8.64	0.50	21.86	36.02	-14.16
2422	3	PEAK	21.84	21.87	21.85	30.00	-8.13	0.50	22.37	36.02	-13.65
2427	4	PEAK	25.69	25.89	25.34	30.00	-4.11	0.50	26.39	36.02	-9.63
2432	5	PEAK	25.94	26.10	25.76	30.00	-3.90	0.50	26.60	36.02	-9.42
2437	6	PEAK	26.37	26.56	26.24	30.00	-3.44	0.50	27.06	36.02	-8.96
2442	7	PEAK	25.62	25.96	25.58	30.00	-4.04	0.50	26.46	36.02	-9.56
2447	8	PEAK	25.21	25.44	25.01	30.00	-4.56	0.50	25.94	36.02	-10.08
2452	9	PEAK	23.01	22.85	22.33	30.00	-6.99	0.50	23.51	36.02	-12.51
2457	10	PEAK	22.57	22.47	22.13	30.00	-7.43	0.50	23.07	36.02	-12.95
2462	11	PEAK	20.51	20.52	20.53	30.00	-9.47	0.50	21.03	36.02	-14.99
2467	12	PEAK	17.63	17.58	17.63	30.00	-12.37	0.50	18.13	36.02	-17.89
2472	13	PEAK	15.19	15.12	-	30.00	-14.81	0.50	15.69	36.02	-20.33

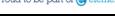
Table 7-23. Peak Conducted Output Power Measurements Antenna 3a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	18.82	18.87	18.20	30.00	-11.13	-0.40	18.47	36.02	-17.55
2417	2	PEAK	21.48	21.25	21.30	30.00	-8.52	-0.40	21.08	36.02	-14.94
2422	3	PEAK	21.64	21.90	21.66	30.00	-8.10	-0.40	21.50	36.02	-14.52
2427	4	PEAK	25.52	25.78	25.13	30.00	-4.22	-0.40	25.38	36.02	-10.64
2432	5	PEAK	25.82	25.99	25.71	30.00	-4.01	-0.40	25.59	36.02	-10.43
2437	6	PEAK	26.26	26.38	26.20	30.00	-3.62	-0.40	25.98	36.02	-10.04
2442	7	PEAK	25.62	25.93	25.51	30.00	-4.07	-0.40	25.53	36.02	-10.49
2447	8	PEAK	25.11	25.34	24.89	30.00	-4.66	-0.40	24.94	36.02	-11.08
2452	9	PEAK	22.64	22.82	22.26	30.00	-7.18	-0.40	22.42	36.02	-13.60
2457	10	PEAK	22.29	22.35	21.64	30.00	-7.65	-0.40	21.95	36.02	-14.07
2462	11	PEAK	20.49	20.63	20.70	30.00	-9.30	-0.40	20.30	36.02	-15.72
2467	12	PEAK	17.96	17.74	17.83	30.00	-12.04	-0.40	17.56	36.02	-18.46
2472	13	PEAK	15.14	15.16	-	30.00	-14.84	-0.40	14.76	36.02	-21.26

Table 7-24. Peak Conducted Output Power Measurements Antenna 1a – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	18.23	18.33	21.29	30.00	-8.71	3.07	24.36	36.02	-11.66
2417	2	PEAK	21.17	21.51	24.35	30.00	-5.65	3.07	27.42	36.02	-8.60
2422	3	PEAK	21.79	21.77	24.79	30.00	-5.21	3.07	27.86	36.02	-8.16
2427	4	PEAK	24.57	24.75	27.67	30.00	-2.33	3.07	30.74	36.02	-5.28
2432	5	PEAK	25.02	25.22	28.13	30.00	-1.87	3.07	31.20	36.02	-4.82
2437	6	PEAK	25.29	25.46	28.39	30.00	-1.61	3.07	31.46	36.02	-4.56
2442	7	PEAK	24.70	24.82	27.77	30.00	-2.23	3.07	30.84	36.02	-5.18
2447	8	PEAK	24.25	24.36	27.32	30.00	-2.68	3.07	30.39	36.02	-5.63
2452	9	PEAK	22.13	22.15	25.15	30.00	-4.85	3.07	28.22	36.02	-7.80
2457	10	PEAK	21.60	21.92	24.77	30.00	-5.23	3.07	27.84	36.02	-8.18
2462	11	PEAK	20.02	20.01	23.03	30.00	-6.97	3.07	26.10	36.02	-9.92
2467	12	PEAK	16.47	16.61	19.55	30.00	-10.45	3.07	22.62	36.02	-13.40
2472	13	PEAK	14.69	15.33	18.03	30.00	-11.97	3.07	21.10	36.02	-14.92

Table 7-25. Peak Conducted Output Power Measurements CDD (802.11g) – Low Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 59 of 444

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	18.42	18.41	21.43	30.00	-8.57	3.07	24.50	36.02	-11.52
2417	2	PEAK	21.56	21.88	24.73	30.00	-5.27	3.07	27.80	36.02	-8.22
2422	3	PEAK	22.20	22.18	25.20	30.00	-4.80	3.07	28.27	36.02	-7.75
2427	4	PEAK	26.48	26.36	29.43	30.00	-0.57	3.07	32.50	36.02	-3.52
2432	5	PEAK	26.79	26.64	29.73	30.00	-0.27	3.07	32.80	36.02	-3.22
2437	6	PEAK	26.92	26.81	29.88	30.00	-0.12	3.07	32.95	36.02	-3.07
2442	7	PEAK	26.59	26.57	29.59	30.00	-0.41	3.07	32.66	36.02	-3.36
2447	8	PEAK	26.34	26.35	29.36	30.00	-0.64	3.07	32.43	36.02	-3.59
2452	9	PEAK	22.66	22.54	25.61	30.00	-4.39	3.07	28.68	36.02	-7.34
2457	10	PEAK	22.19	22.18	25.20	30.00	-4.80	3.07	28.27	36.02	-7.75
2462	11	PEAK	20.23	20.48	23.37	30.00	-6.63	3.07	26.44	36.02	-9.58
2467	12	PEAK	16.87	17.15	20.02	30.00	-9.98	3.07	23.09	36.02	-12.93
2472	13	PEAK	15.14	15.16	18.16	30.00	-11.84	3.07	21.23	36.02	-14.79

Table 7-26. Peak Conducted Output Power Measurements CDD (802.11n) – Low Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	17.50	17.87	20.70	30.00	-9.30	3.07	23.77	36.02	-12.25
2417	2	PEAK	21.38	21.54	24.47	30.00	-5.53	3.07	27.54	36.02	-8.48
2422	3	PEAK	22.08	21.82	24.96	30.00	-5.04	3.07	28.03	36.02	-7.99
2427	4	PEAK	25.45	25.39	28.43	30.00	-1.57	3.07	31.50	36.02	-4.52
2432	5	PEAK	25.82	25.78	28.81	30.00	-1.19	3.07	31.88	36.02	-4.14
2437	6	PEAK	26.51	26.53	29.53	30.00	-0.47	3.07	32.60	36.02	-3.42
2442	7	PEAK	25.41	25.40	28.42	30.00	-1.58	3.07	31.49	36.02	-4.53
2447	8	PEAK	25.07	25.04	28.07	30.00	-1.93	3.07	31.14	36.02	-4.88
2452	9	PEAK	22.14	21.97	25.07	30.00	-4.93	3.07	28.14	36.02	-7.88
2457	10	PEAK	21.82	21.42	24.63	30.00	-5.37	3.07	27.70	36.02	-8.32
2462	11	PEAK	19.82	19.78	22.81	30.00	-7.19	3.07	25.88	36.02	-10.14
2467	12	PEAK	16.90	17.25	20.09	30.00	-9.91	3.07	23.16	36.02	-12.86

Table 7-27. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – Low Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 60 of 444

Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	20.74	20.61	19.41	30.00	-9.26	0.50	21.24	36.02	-14.78
2417	2	PEAK	23.03	23.64	23.43	30.00	-6.36	0.50	24.14	36.02	-11.88
2422	3	PEAK	24.29	24.00	23.87	30.00	-5.71	0.50	24.79	36.02	-11.23
2427	4	PEAK	25.66	25.92	25.58	30.00	-4.08	0.50	26.42	36.02	-9.60
2432	5	PEAK	26.18	26.29	26.13	30.00	-3.71	0.50	26.79	36.02	-9.23
2437	6	PEAK	26.56	26.77	26.60	30.00	-3.23	0.50	27.27	36.02	-8.75
2442	7	PEAK	26.04	26.27	26.06	30.00	-3.73	0.50	26.77	36.02	-9.25
2447	8	PEAK	25.58	25.85	25.49	30.00	-4.15	0.50	26.35	36.02	-9.67
2452	9	PEAK	24.76	25.57	24.14	30.00	-4.43	0.50	26.07	36.02	-9.95
2457	10	PEAK	24.51	24.25	23.59	30.00	-5.49	0.50	25.01	36.02	-11.01
2462	11	PEAK	22.76	22.27	21.80	30.00	-7.24	0.50	23.26	36.02	-12.76
2467	12	PEAK	19.86	19.43	18.82	30.00	-10.14	0.50	20.36	36.02	-15.66
2472	13	PEAK	16.16	15.51	-	30.00	-13.84	0.50	16.66	36.02	-19.36

Table 7-28. Peak Conducted Output Power Measurements Antenna 3a – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	20.76	20.43	19.55	30.00	-9.24	-0.40	20.36	36.02	-15.66
2417	2	PEAK	24.03	23.76	23.70	30.00	-5.97	-0.40	23.63	36.02	-12.39
2422	3	PEAK	24.20	24.13	23.98	30.00	-5.80	-0.40	23.80	36.02	-12.22
2427	4	PEAK	25.63	25.81	25.52	30.00	-4.19	-0.40	25.41	36.02	-10.61
2432	5	PEAK	26.08	26.25	25.58	30.00	-3.75	-0.40	25.85	36.02	-10.17
2437	6	PEAK	26.54	26.61	26.01	30.00	-3.39	-0.40	26.21	36.02	-9.81
2442	7	PEAK	26.06	26.19	25.53	30.00	-3.81	-0.40	25.79	36.02	-10.23
2447	8	PEAK	25.47	25.83	25.03	30.00	-4.17	-0.40	25.43	36.02	-10.59
2452	9	PEAK	24.87	24.57	23.84	30.00	-5.13	-0.40	24.47	36.02	-11.55
2457	10	PEAK	24.24	24.12	23.56	30.00	-5.76	-0.40	23.84	36.02	-12.18
2462	11	PEAK	22.93	22.51	21.69	30.00	-7.07	-0.40	22.53	36.02	-13.49
2467	12	PEAK	19.89	19.44	18.96	30.00	-10.11	-0.40	19.49	36.02	-16.53
2472	13	PEAK	16.26	15.87	-	30.00	-13.74	-0.40	15.86	36.02	-20.16

Table 7-29. Peak Conducted Output Power Measurements Antenna 1a – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	20.56	20.43	23.51	30.00	-6.49	3.07	26.58	36.02	-9.44
2417	2	PEAK	24.00	24.04	27.03	30.00	-2.97	3.07	30.10	36.02	-5.92
2422	3	PEAK	24.36	24.39	27.39	30.00	-2.61	3.07	30.46	36.02	-5.56
2427	4	PEAK	25.48	25.48	28.49	30.00	-1.51	3.07	31.56	36.02	-4.46
2432	5	PEAK	25.85	25.79	28.83	30.00	-1.17	3.07	31.90	36.02	-4.12
2437	6	PEAK	26.30	26.29	29.31	30.00	-0.69	3.07	32.38	36.02	-3.64
2442	7	PEAK	25.58	25.70	28.65	30.00	-1.35	3.07	31.72	36.02	-4.30
2447	8	PEAK	25.08	25.01	28.06	30.00	-1.94	3.07	31.13	36.02	-4.89
2452	9	PEAK	24.66	24.23	27.46	30.00	-2.54	3.07	30.53	36.02	-5.49
2457	10	PEAK	24.42	24.19	27.32	30.00	-2.68	3.07	30.39	36.02	-5.63
2462	11	PEAK	21.91	22.01	24.97	30.00	-5.03	3.07	28.04	36.02	-7.98
2467	12	PEAK	18.95	19.17	22.07	30.00	-7.93	3.07	25.14	36.02	-10.88
2472	13	PEAK	15.77	15.84	18.82	30.00	-11.18	3.07	21.89	36.02	-14.13

Table 7-30. Peak Conducted Output Power Measurements CDD (802.11g) – Mid Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 61 of 444

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Anetnna 3a	Antenna 1a	Summed						
2412	1	PEAK	19.90	19.63	22.78	30.00	-7.22	3.07	25.85	36.02	-10.17
2417	2	PEAK	23.62	23.67	26.66	30.00	-3.34	3.07	29.73	36.02	-6.29
2422	3	PEAK	23.86	24.12	27.00	30.00	-3.00	3.07	30.07	36.02	-5.95
2427	4	PEAK	25.75	25.44	28.61	30.00	-1.39	3.07	31.68	36.02	-4.34
2432	5	PEAK	26.03	25.67	28.86	30.00	-1.14	3.07	31.93	36.02	-4.09
2437	6	PEAK	26.54	26.15	29.36	30.00	-0.64	3.07	32.43	36.02	-3.59
2442	7	PEAK	25.92	25.62	28.78	30.00	-1.22	3.07	31.85	36.02	-4.17
2447	8	PEAK	25.23	25.12	28.19	30.00	-1.81	3.07	31.26	36.02	-4.76
2452	9	PEAK	23.93	23.86	26.91	30.00	-3.09	3.07	29.98	36.02	-6.04
2457	10	PEAK	23.62	23.54	26.59	30.00	-3.41	3.07	29.66	36.02	-6.36
2462	11	PEAK	21.31	21.05	24.19	30.00	-5.81	3.07	27.26	36.02	-8.76
2467	12	PEAK	18.12	18.18	21.16	30.00	-8.84	3.07	24.23	36.02	-11.79
2472	13	PEAK	15.00	14.93	17.98	30.00	-12.02	3.07	21.05	36.02	-14.97

Table 7-31. Peak Conducted Output Power Measurements CDD (802.11n) – Mid Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	18.88	19.00	21.95	30.00	-8.05	3.07	25.02	36.02	-11.00
2417	2	PEAK	23.32	23.41	26.38	30.00	-3.62	3.07	29.45	36.02	-6.57
2422	3	PEAK	24.31	24.30	27.32	30.00	-2.68	3.07	30.39	36.02	-5.63
2427	4	PEAK	25.75	25.60	28.69	30.00	-1.31	3.07	31.76	36.02	-4.26
2432	5	PEAK	26.30	26.07	29.20	30.00	-0.80	3.07	32.27	36.02	-3.75
2437	6	PEAK	26.71	26.51	29.62	30.00	-0.38	3.07	32.69	36.02	-3.33
2442	7	PEAK	25.91	25.83	28.88	30.00	-1.12	3.07	31.95	36.02	-4.07
2447	8	PEAK	25.50	25.31	28.42	30.00	-1.58	3.07	31.49	36.02	-4.53
2452	9	PEAK	23.61	23.57	26.60	30.00	-3.40	3.07	29.67	36.02	-6.35
2457	10	PEAK	23.65	23.43	26.55	30.00	-3.45	3.07	29.62	36.02	-6.40
2462	11	PEAK	20.94	21.09	24.03	30.00	-5.97	3.07	27.10	36.02	-8.92
2467	12	PEAK	18.72	19.02	21.88	30.00	-8.12	3.07	24.95	36.02	-11.07

Table 7-32. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – Mid Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 62 of 444

High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	19.63	20.70	23.07	22.38	30.00	-6.93	0.50	23.57	36.02	-12.45
2417	2	PEAK	19.93	24.06	25.53	25.24	30.00	-4.47	0.50	26.03	36.02	-9.99
2422	3	PEAK	22.98	24.44	25.78	25.76	30.00	-4.22	0.50	26.28	36.02	-9.74
2427	4	PEAK	23.71	25.85	26.22	26.01	30.00	-3.78	0.50	26.72	36.02	-9.30
2432	5	PEAK	23.71	26.36	26.58	26.42	30.00	-3.42	0.50	27.08	36.02	-8.94
2437	6	PEAK	23.71	26.57	26.74	26.76	30.00	-3.24	0.50	27.26	36.02	-8.76
2442	7	PEAK	23.53	26.26	26.51	26.29	30.00	-3.49	0.50	27.01	36.02	-9.01
2447	8	PEAK	23.74	25.74	26.11	25.80	30.00	-3.89	0.50	26.61	36.02	-9.41
2452	9	PEAK	23.70	24.62	25.86	25.65	30.00	-4.14	0.50	26.36	36.02	-9.66
2457	10	PEAK	23.43	23.54	25.37	25.00	30.00	-4.63	0.50	25.87	36.02	-10.15
2462	11	PEAK	23.21	21.64	24.00	23.58	30.00	-6.00	0.50	24.50	36.02	-11.52
2467	12	PEAK	21.29	19.10	21.61	21.31	30.00	-8.39	0.50	22.11	36.02	-13.91
2472	13	PEAK	17.70	15.76	16.21	-	30.00	-12.30	0.50	18.20	36.02	-17.82

Table 7-33. Peak Conducted Output Power Measurements Antenna 3a – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]				Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			802.11b	802.11g	802.11n	802.11ax (SU)						
2412	1	PEAK	19.71	20.30	23.17	22.47	30.00	-6.83	-0.40	22.77	36.02	-13.25
2417	2	PEAK	20.03	24.08	25.41	25.23	30.00	-4.59	-0.40	25.01	36.02	-11.01
2422	3	PEAK	22.87	24.21	25.62	25.66	30.00	-4.34	-0.40	25.26	36.02	-10.76
2427	4	PEAK	23.48	25.72	26.03	25.81	30.00	-3.97	-0.40	25.63	36.02	-10.39
2432	5	PEAK	23.70	26.06	26.37	26.26	30.00	-3.63	-0.40	25.97	36.02	-10.05
2437	6	PEAK	23.75	26.29	26.56	26.48	30.00	-3.44	-0.40	26.16	36.02	-9.86
2442	7	PEAK	23.73	26.10	26.33	26.20	30.00	-3.67	-0.40	25.93	36.02	-10.09
2447	8	PEAK	23.74	25.73	25.89	25.59	30.00	-4.11	-0.40	25.49	36.02	-10.53
2452	9	PEAK	23.72	24.36	25.76	25.57	30.00	-4.24	-0.40	25.36	36.02	-10.66
2457	10	PEAK	23.32	23.46	25.20	24.99	30.00	-4.80	-0.40	24.80	36.02	-11.22
2462	11	PEAK	23.10	21.78	23.98	23.42	30.00	-6.02	-0.40	23.58	36.02	-12.44
2467	12	PEAK	21.28	19.31	21.67	21.29	30.00	-8.33	-0.40	21.27	36.02	-14.75
2472	13	PEAK	17.64	15.81	16.22	-	30.00	-12.36	-0.40	17.24	36.02	-18.78

Table 7-34. Peak Conducted Output Power Measurements Antenna 1a – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	19.70	19.71	22.72	30.00	-7.28	3.07	25.79	36.02	-10.23
2417	2	PEAK	23.25	23.32	26.30	30.00	-3.70	3.07	29.37	36.02	-6.65
2422	3	PEAK	24.43	24.37	27.41	30.00	-2.59	3.07	30.48	36.02	-5.54
2427	4	PEAK	25.79	25.52	28.67	30.00	-1.33	3.07	31.74	36.02	-4.28
2432	5	PEAK	26.01	25.65	28.84	30.00	-1.16	3.07	31.91	36.02	-4.11
2437	6	PEAK	26.33	25.83	29.10	30.00	-0.90	3.07	32.17	36.02	-3.85
2442	7	PEAK	25.77	25.47	28.63	30.00	-1.37	3.07	31.70	36.02	-4.32
2447	8	PEAK	25.22	25.03	28.14	30.00	-1.86	3.07	31.21	36.02	-4.81
2452	9	PEAK	23.45	23.43	26.45	30.00	-3.55	3.07	29.52	36.02	-6.50
2457	10	PEAK	23.43	23.21	26.33	30.00	-3.67	3.07	29.40	36.02	-6.62
2462	11	PEAK	20.69	20.57	23.64	30.00	-6.36	3.07	26.71	36.02	-9.31
2467	12	PEAK	18.04	18.07	21.07	30.00	-8.93	3.07	24.14	36.02	-11.88
2472	13	PEAK	15.32	15.39	18.37	30.00	-11.63	3.07	21.44	36.02	-14.58

Table 7-35. Peak Conducted Output Power Measurements CDD (802.11g) – High Data Rate

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 63 of 444

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	24.42	23.97	27.21	30.00	-2.79	3.07	30.28	36.02	-5.74
2417	2	PEAK	26.20	26.02	29.12	30.00	-0.88	3.07	32.19	36.02	-3.83
2422	3	PEAK	16.45	26.47	26.88	30.00	-3.12	3.07	29.95	36.02	-6.07
2427	4	PEAK	26.78	26.59	29.70	30.00	-0.30	3.07	32.77	36.02	-3.25
2432	5	PEAK	26.91	26.69	29.81	30.00	-0.19	3.07	32.88	36.02	-3.14
2437	6	PEAK	27.15	26.92	30.05	30.00	0.05	3.07	33.12	36.02	-2.90
2442	7	PEAK	26.80	26.67	29.75	30.00	-0.25	3.07	32.82	36.02	-3.20
2447	8	PEAK	26.52	26.35	29.45	30.00	-0.55	3.07	32.52	36.02	-3.50
2452	9	PEAK	26.35	26.38	29.38	30.00	-0.62	3.07	32.45	36.02	-3.57
2457	10	PEAK	26.27	26.25	29.27	30.00	-0.73	3.07	32.34	36.02	-3.68
2462	11	PEAK	24.71	24.85	27.79	30.00	-2.21	3.07	30.86	36.02	-5.16
2467	12	PEAK	22.35	22.31	25.34	30.00	-4.66	3.07	28.41	36.02	-7.61
2472	13	PEAK	17.50	17.21	20.37	30.00	-9.63	3.07	23.44	36.02	-12.58

Table 7-36. Peak Conducted Output Power Measurements CDD (802.11n) – High Data Rate

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
			Antenna 3a	Antenna 1a	Summed						
2412	1	PEAK	24.38	23.92	27.17	30.00	-2.83	3.07	30.24	36.02	-5.78
2417	2	PEAK	26.79	26.72	29.77	30.00	-0.23	3.07	32.84	36.02	-3.18
2422	3	PEAK	26.65	26.61	29.64	30.00	-0.36	3.07	32.71	36.02	-3.31
2427	4	PEAK	26.73	26.65	29.70	30.00	-0.30	3.07	32.77	36.02	-3.25
2432	5	PEAK	27.02	26.90	29.97	30.00	-0.03	3.07	33.04	36.02	-2.98
2437	6	PEAK	27.24	27.07	30.17	30.00	0.17	3.07	33.24	36.02	-2.78
2442	7	PEAK	26.93	26.88	29.92	30.00	-0.08	3.07	32.99	36.02	-3.03
2447	8	PEAK	26.50	26.51	29.52	30.00	-0.48	3.07	32.59	36.02	-3.43
2452	9	PEAK	26.33	26.25	29.30	30.00	-0.70	3.07	32.37	36.02	-3.65
2457	10	PEAK	26.04	26.01	29.04	30.00	-0.96	3.07	32.11	36.02	-3.91
2462	11	PEAK	24.84	24.98	27.92	30.00	-2.08	3.07	30.99	36.02	-5.03
2467	12	PEAK	22.88	22.93	25.92	30.00	-4.08	3.07	28.99	36.02	-7.03

Table 7-37. Peak Conducted Output Power Measurements CDD (802.11ax - SU) – High Data Rate

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Note:

Per ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 3a and Antenna 1a were first measured separately during CDD transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_{NANT}/20})^2 / N_{ANT}] \text{ dBi}$$

Sample CDD Calculation:

At 2412MHz the average conducted output power was measured to be 13.68 dBm for Antenna 3a and 13.72 dBm for Antenna 1a.

$$\text{Antenna 3a} + \text{Antenna 1a} = \text{CDD}$$

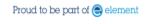
$$(13.68 \text{ dBm} + 13.72 \text{ dBm}) = 23.33 \text{ mW} + 23.55 \text{ mW} = 46.88 \text{ mW} = 16.71 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 2412MHz, the average conducted output power was calculated to be 16.71 dBm with directional gain of 3.07 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$16.71 \text{ dBm} + 3.07 \text{ dBi} = 19.78 \text{ dBm}$$

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.4 Power Spectral Density

§15.247(e); RSS-247 [5.2]

Test Overview and Limit

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 1MHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

Test Notes

The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst case data rate per group is reported.

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Antenna 3a Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	12	-10.53	8.00	-18.53	Pass
2437	6	g	12	-2.13	8.00	-10.13	Pass
2462	11	g	12	-8.18	8.00	-16.18	Pass
2412	1	n	19.5/21.7 (MCS2)	-10.78	8.00	-18.78	Pass
2437	6	n	19.5/21.7 (MCS2)	-3.40	8.00	-11.40	Pass
2462	11	n	19.5/21.7 (MCS2)	-9.03	8.00	-17.03	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	-10.79	8.00	-18.79	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	-4.24	8.00	-12.24	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	-9.09	8.00	-17.09	Pass

Table 7-38. Conducted Power Density Measurements Antenna 3a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	24	-9.46	8.00	-17.46	Pass
2437	6	g	24	-2.40	8.00	-10.40	Pass
2462	11	g	24	-8.13	8.00	-16.13	Pass
2412	1	n	39/43.3 (MCS4)	-9.29	8.00	-17.29	Pass
2437	6	n	39/43.3 (MCS4)	-2.39	8.00	-10.39	Pass
2462	11	n	39/43.3 (MCS4)	-12.99	8.00	-20.99	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	-9.40	8.00	-17.40	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	-3.14	8.00	-11.14	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	-8.40	8.00	-16.40	Pass

Table 7-39. Conducted Power Density Measurements Antenna 3a (Mid Data Rate)

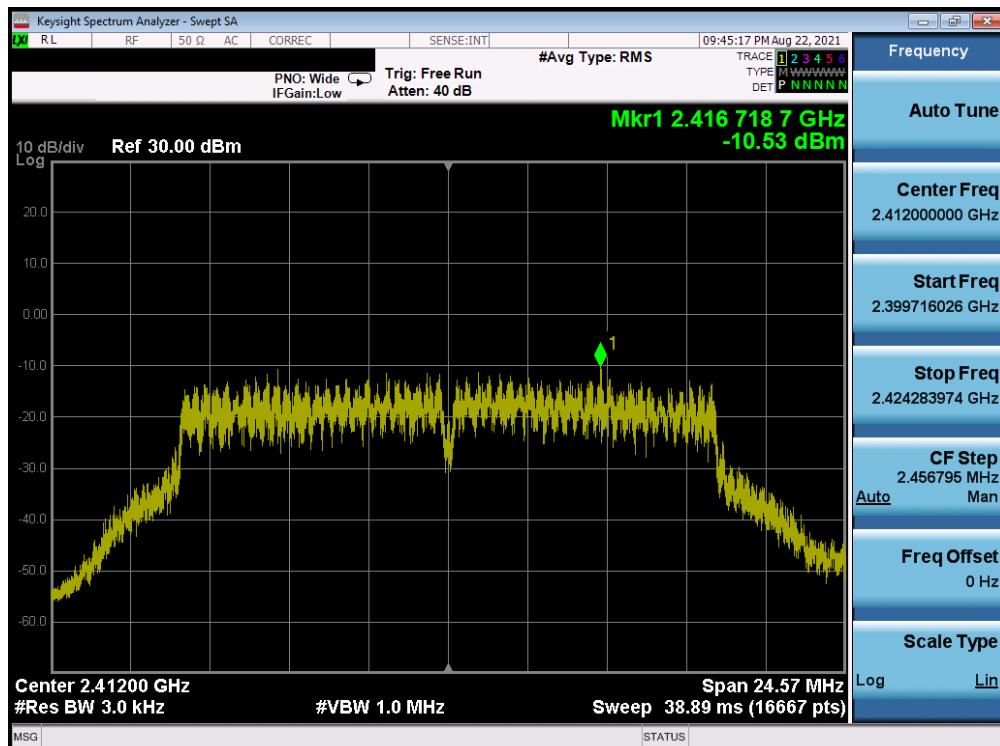
FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 67 of 444

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	11	-3.58	8.00	-11.58	Pass
2437	6	b	11	0.15	8.00	-7.85	Pass
2462	11	b	11	-0.02	8.00	-8.02	Pass
2412	1	g	36	-10.05	8.00	-18.05	Pass
2437	6	g	36	-4.57	8.00	-12.57	Pass
2462	11	g	36	-9.77	8.00	-17.77	Pass
2412	1	n	52/57.8 (MCS5)	-8.63	8.00	-16.63	Pass
2437	6	n	52/57.8 (MCS5)	-3.97	8.00	-11.97	Pass
2462	11	n	52/57.8 (MCS5)	-8.87	8.00	-16.87	Pass
2412	1	ax (SU)	65/68.8 (MCS5)	-10.54	8.00	-18.54	Pass
2437	6	ax (SU)	65/68.8 (MCS5)	-4.27	8.00	-12.27	Pass
2462	11	ax (SU)	65/68.8 (MCS5)	-9.47	8.00	-17.47	Pass

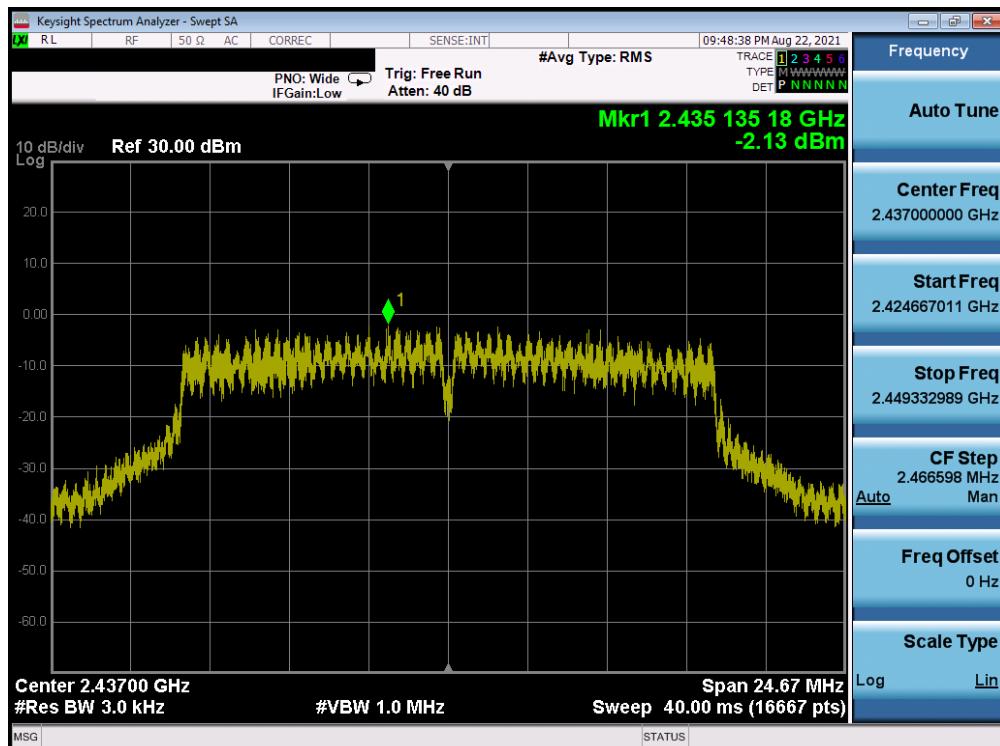
Table 7-40. Conducted Power Density Measurements Antenna 3a (High Data Rate)

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Low Data Rate

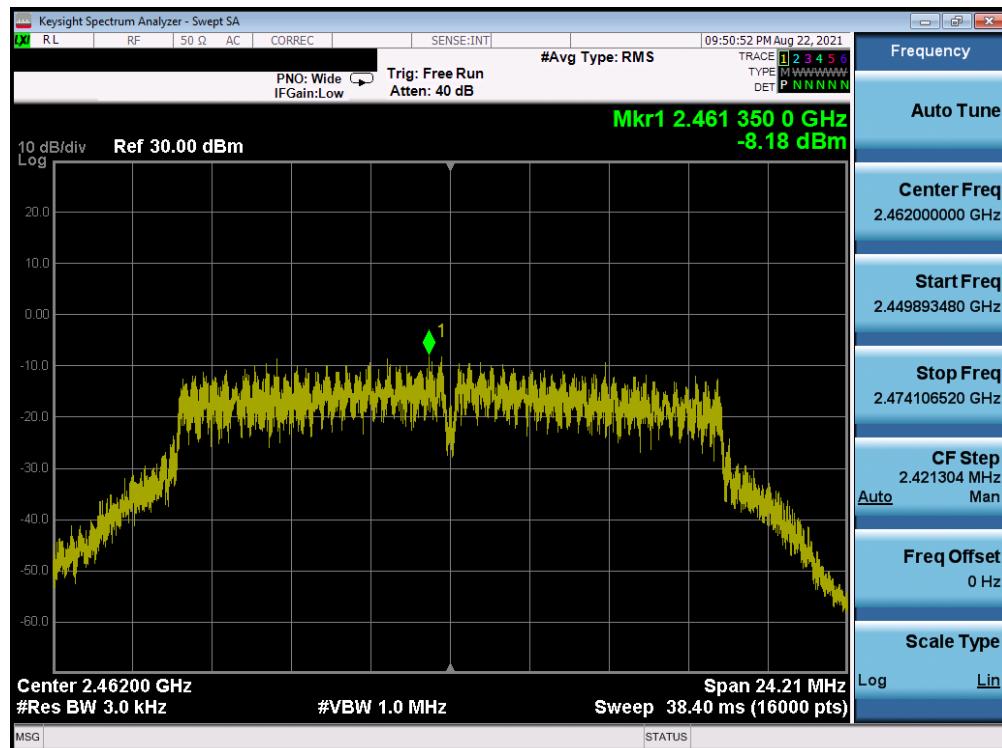


Plot 7-61. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 1) – 12Mbps

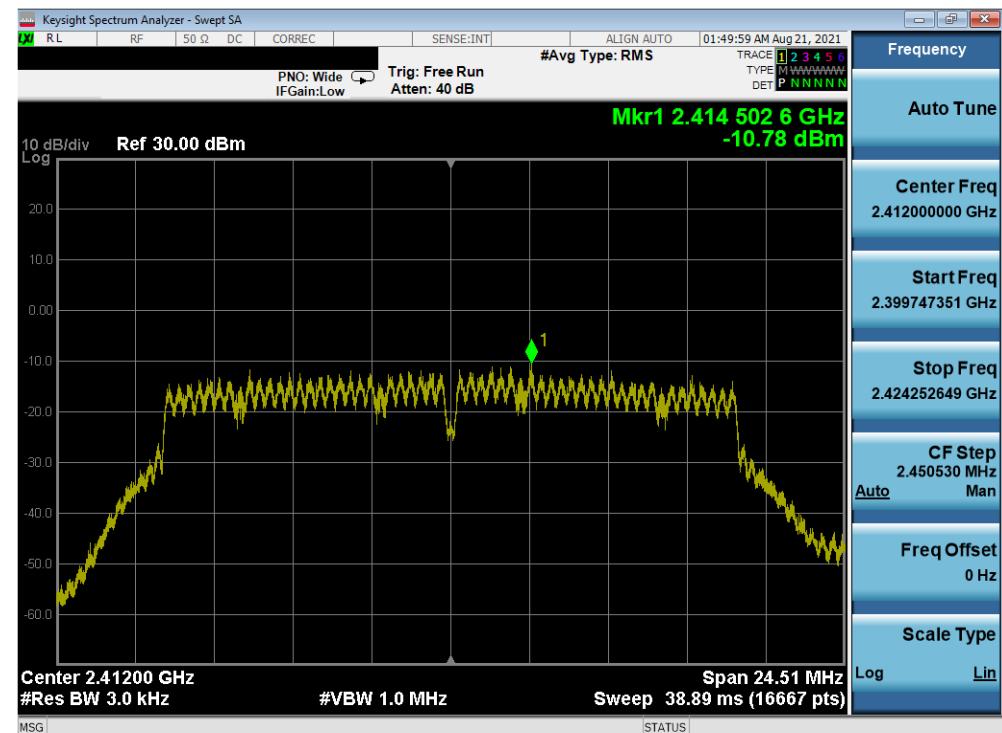


Plot 7-62. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 69 of 444	

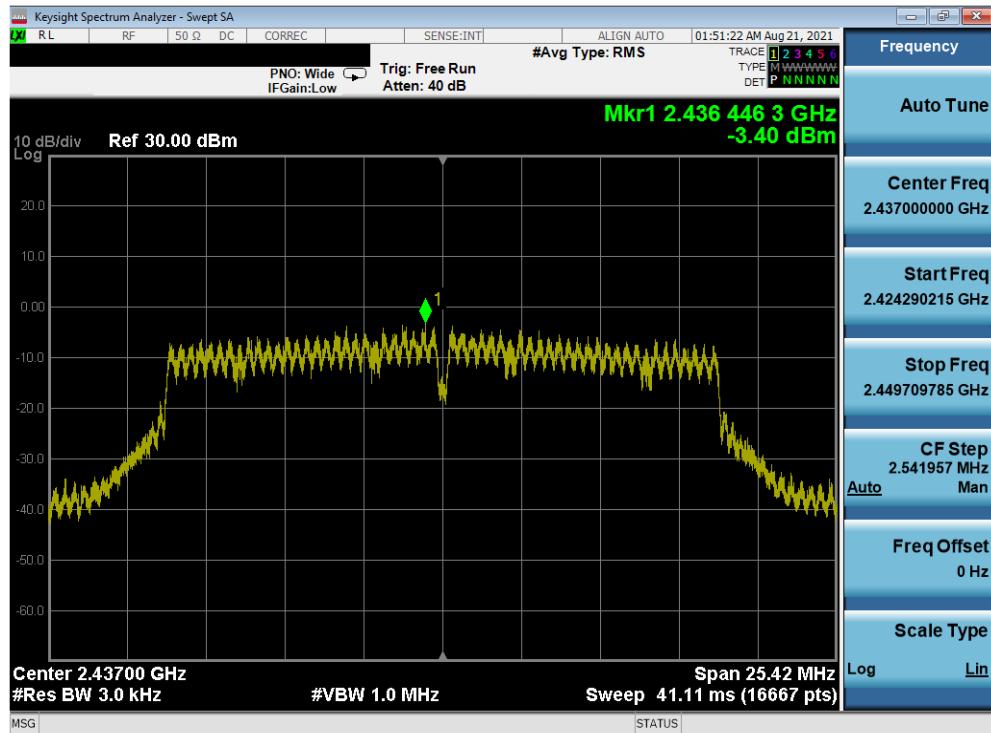


Plot 7-63. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 11) – 12Mbps

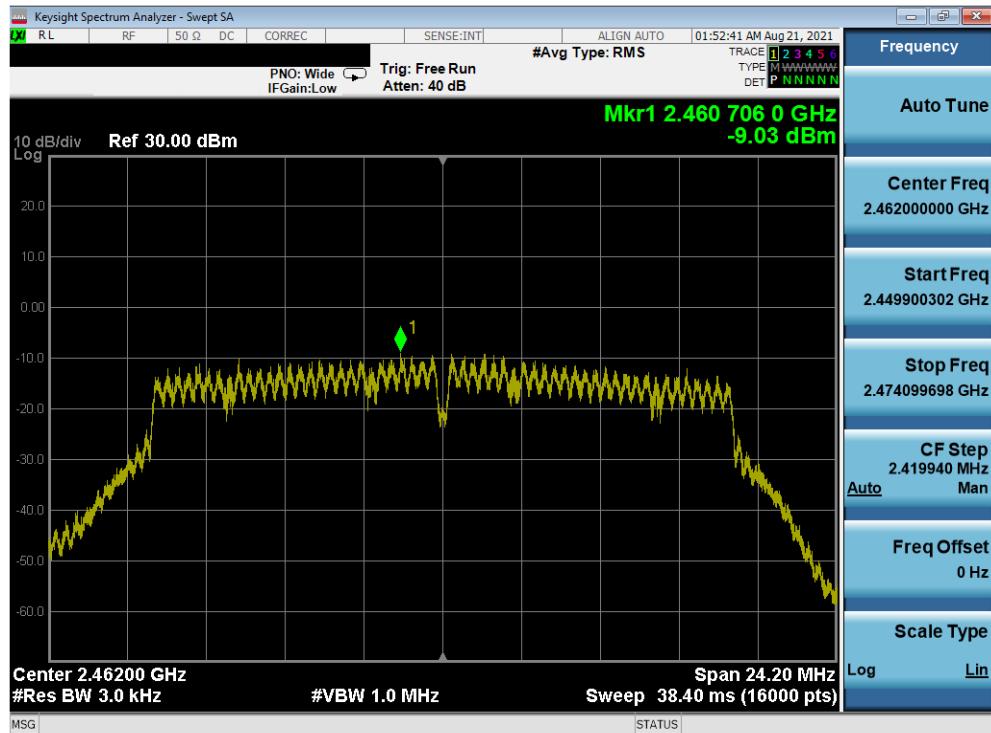


Plot 7-64. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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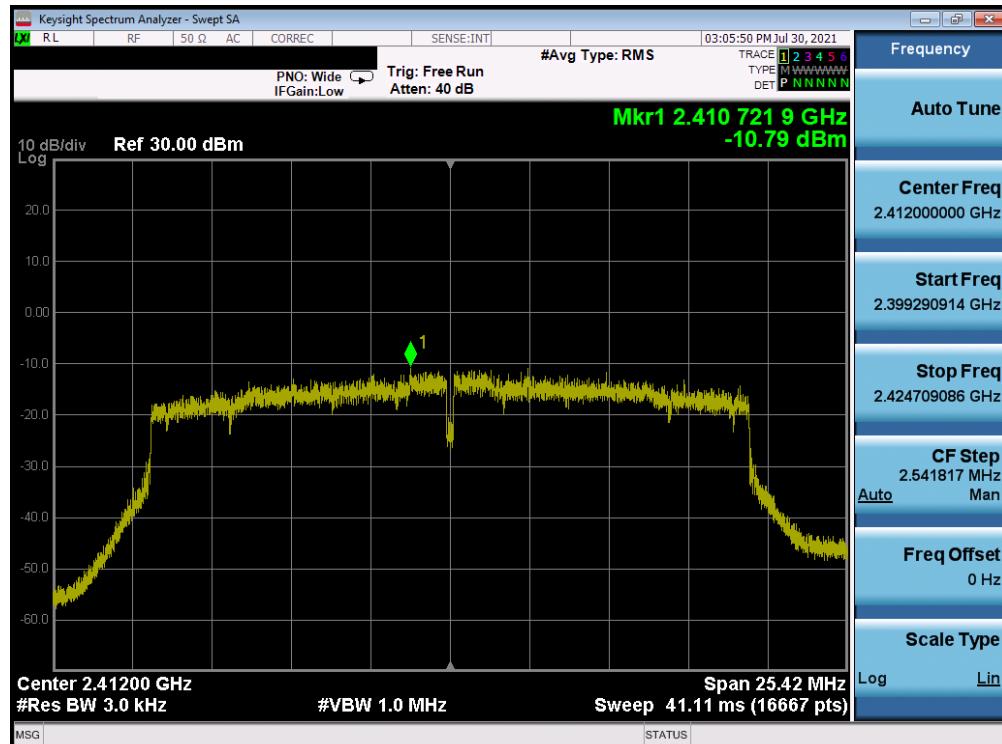


Plot 7-65. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS2

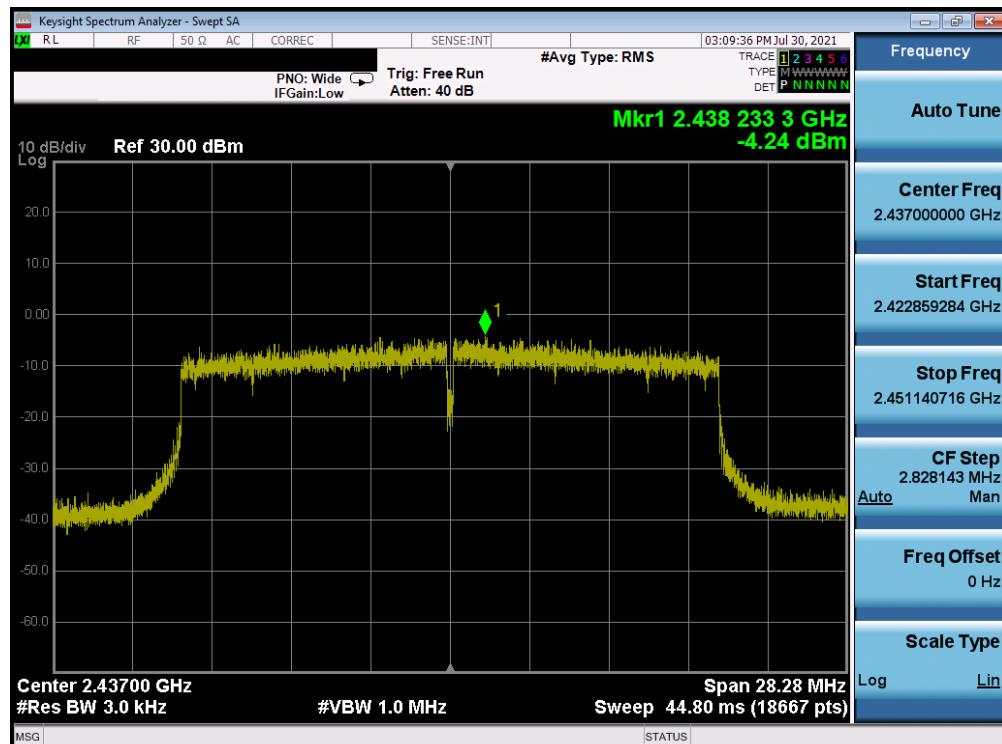


Plot 7-66. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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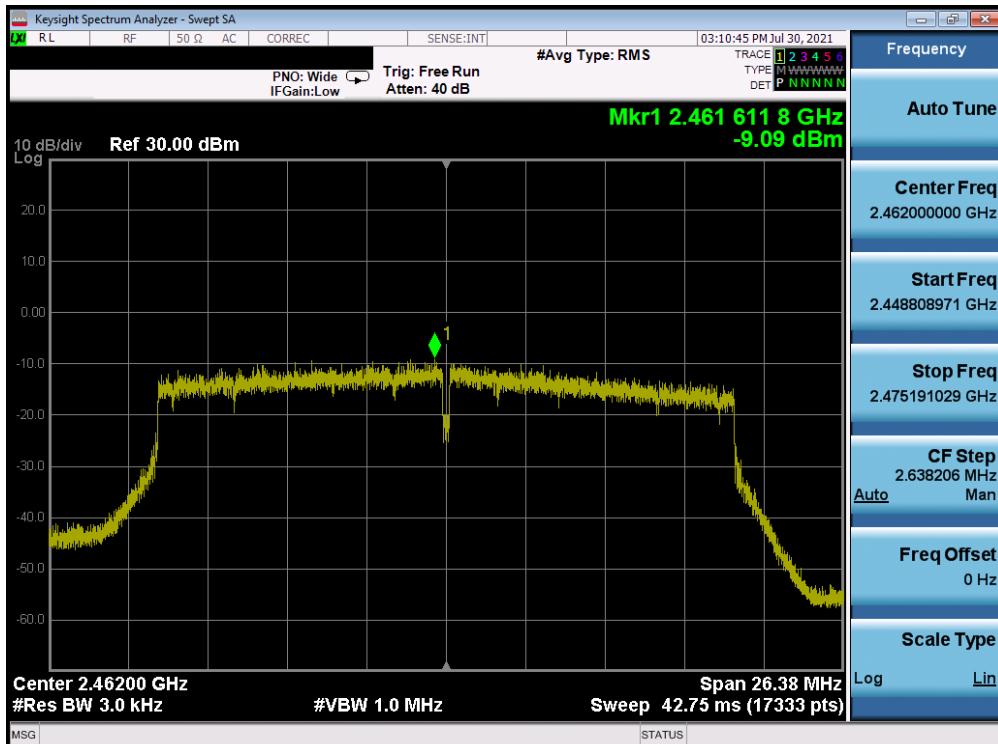


Plot 7-67. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS2



Plot 7-68. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS2

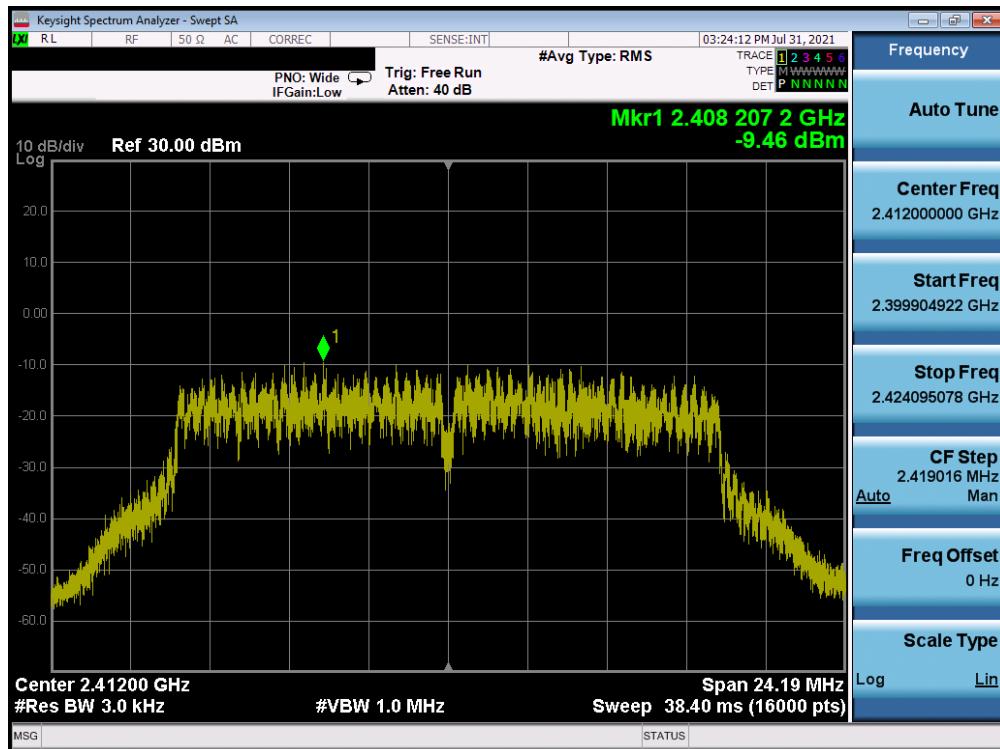
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 72 of 444	



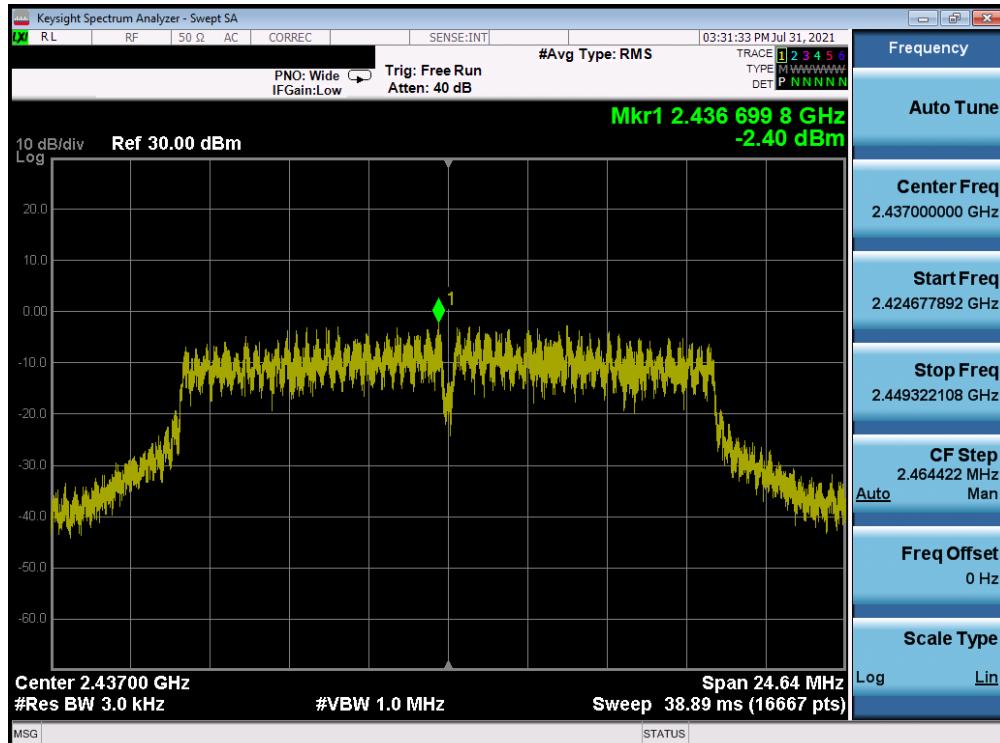
Plot 7-69. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 73 of 444

Mid Data Rate

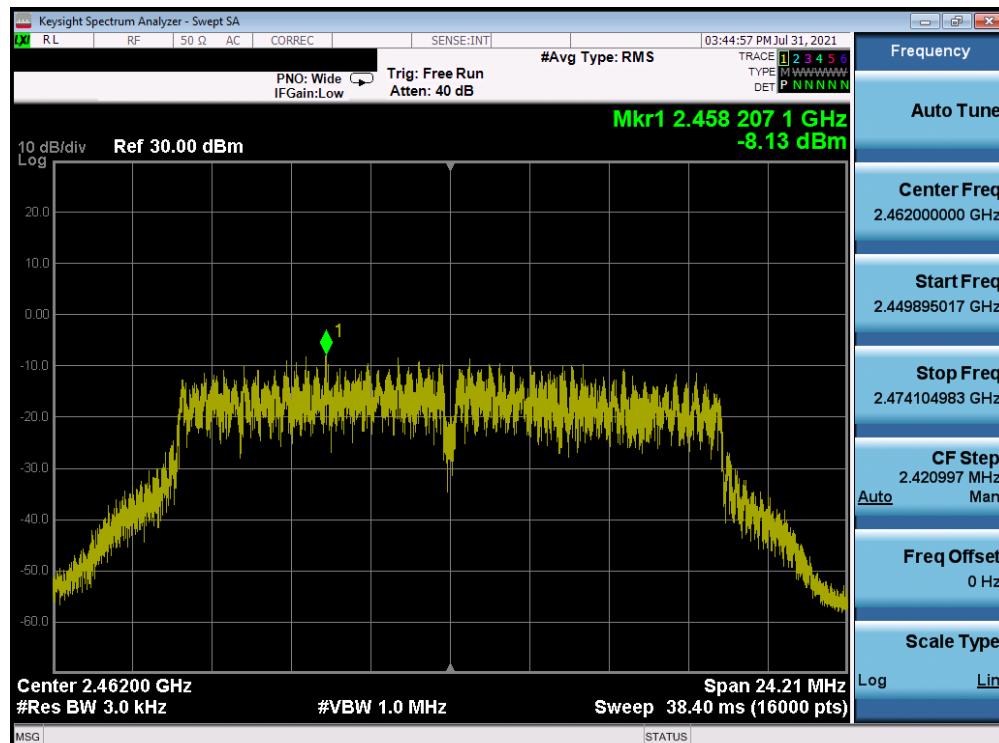


Plot 7-70. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 1) – 24Mbps

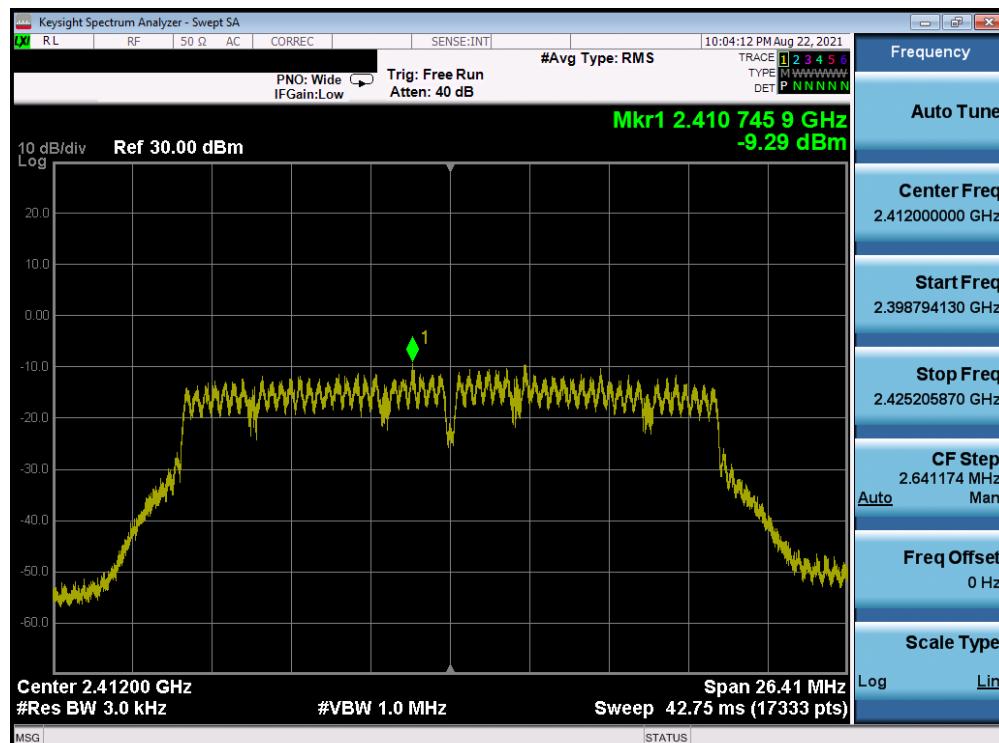


Plot 7-71. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 6) – 24Mbps

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 74 of 444	

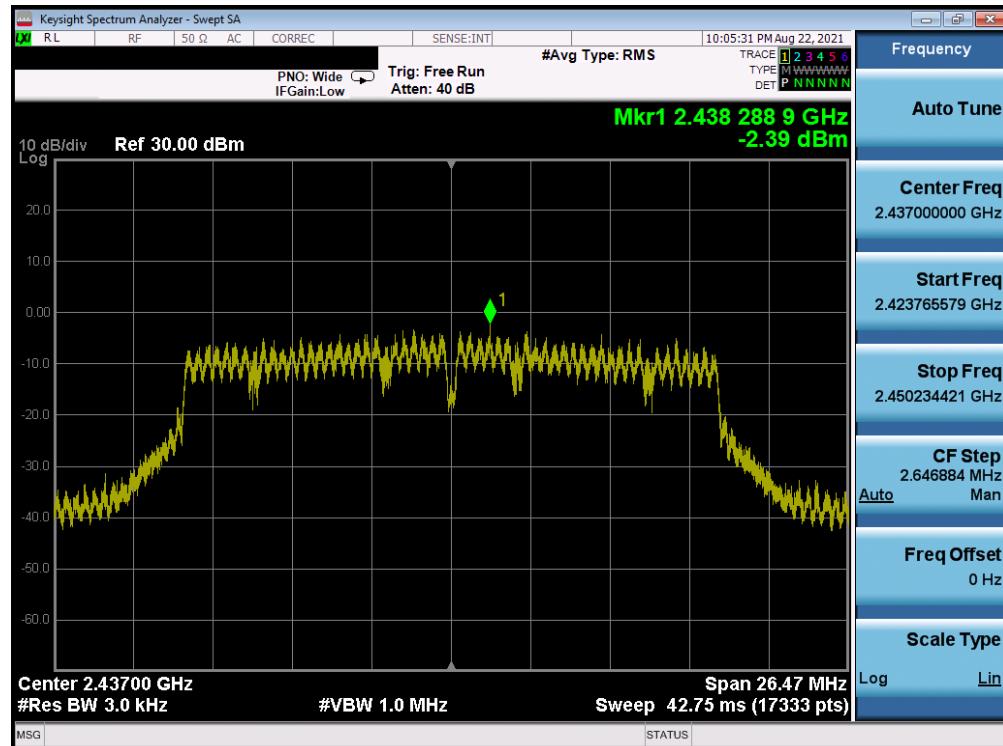


Plot 7-72. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 11) – 24Mbps

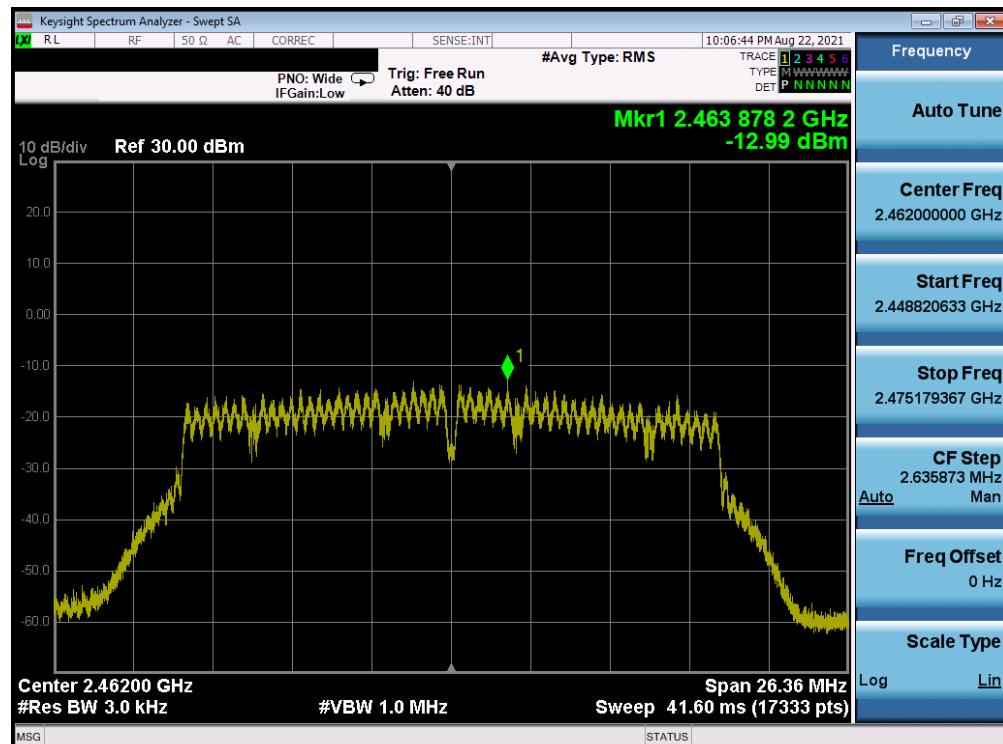


Plot 7-73. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 75 of 444

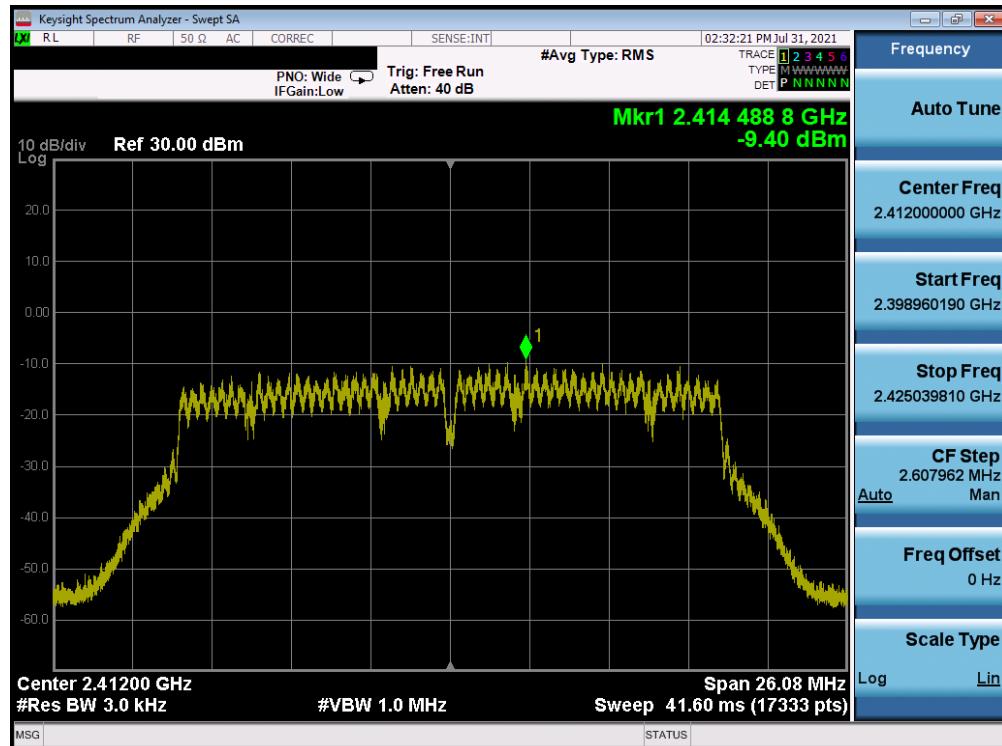


Plot 7-74. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS4

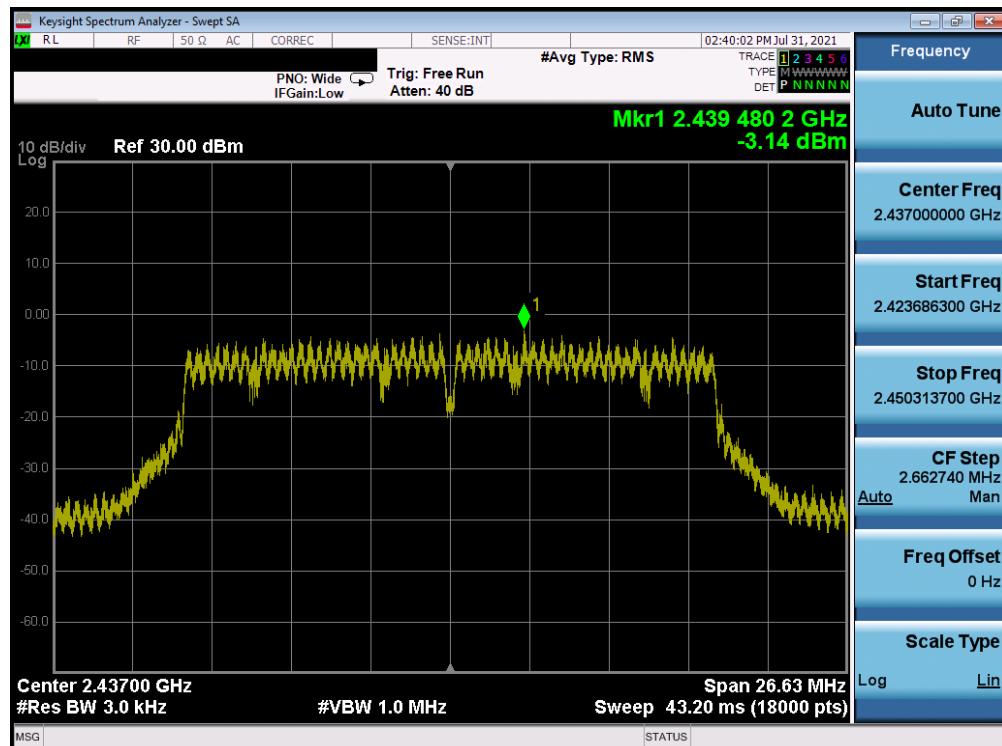


Plot 7-75. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 76 of 444	

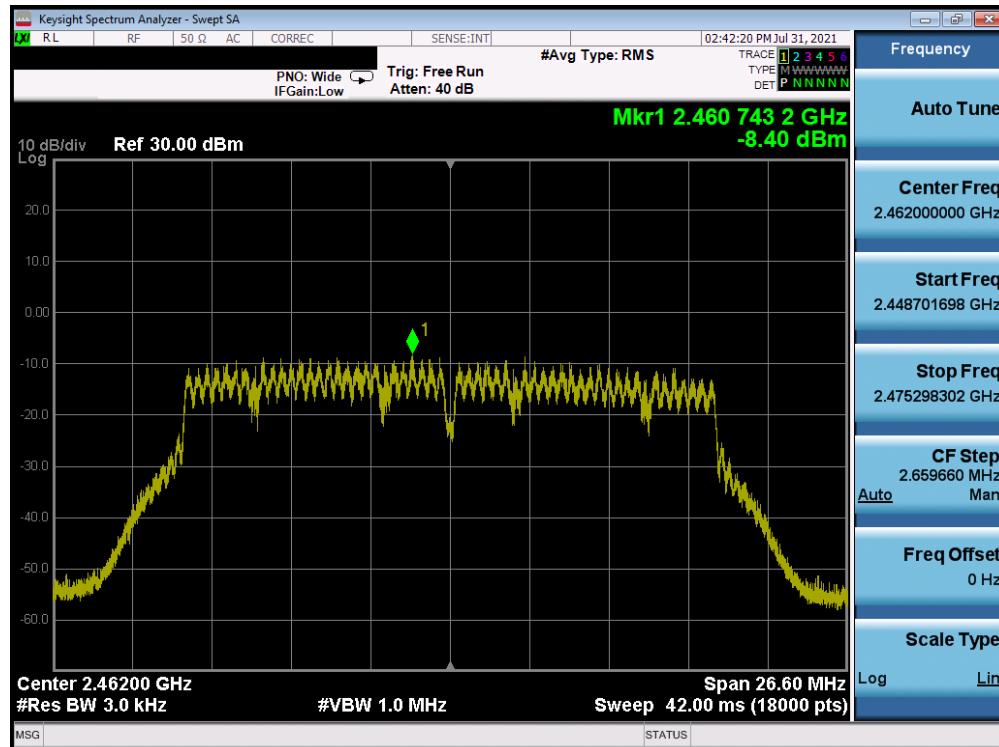


Plot 7-76. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS4



Plot 7-77. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS4

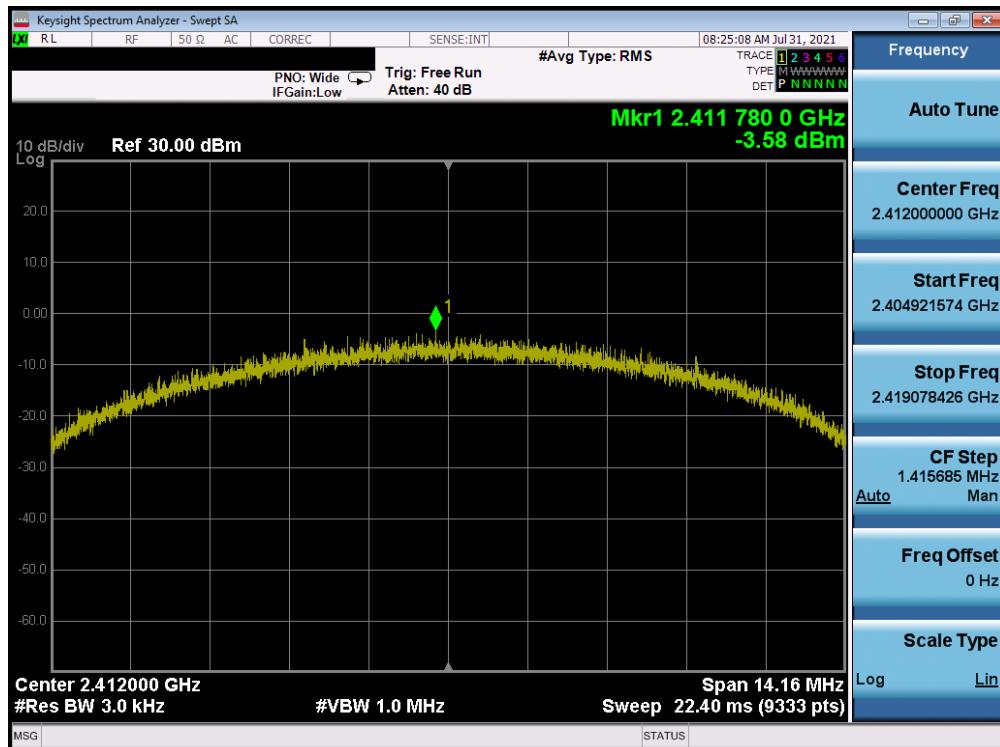
FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 77 of 444



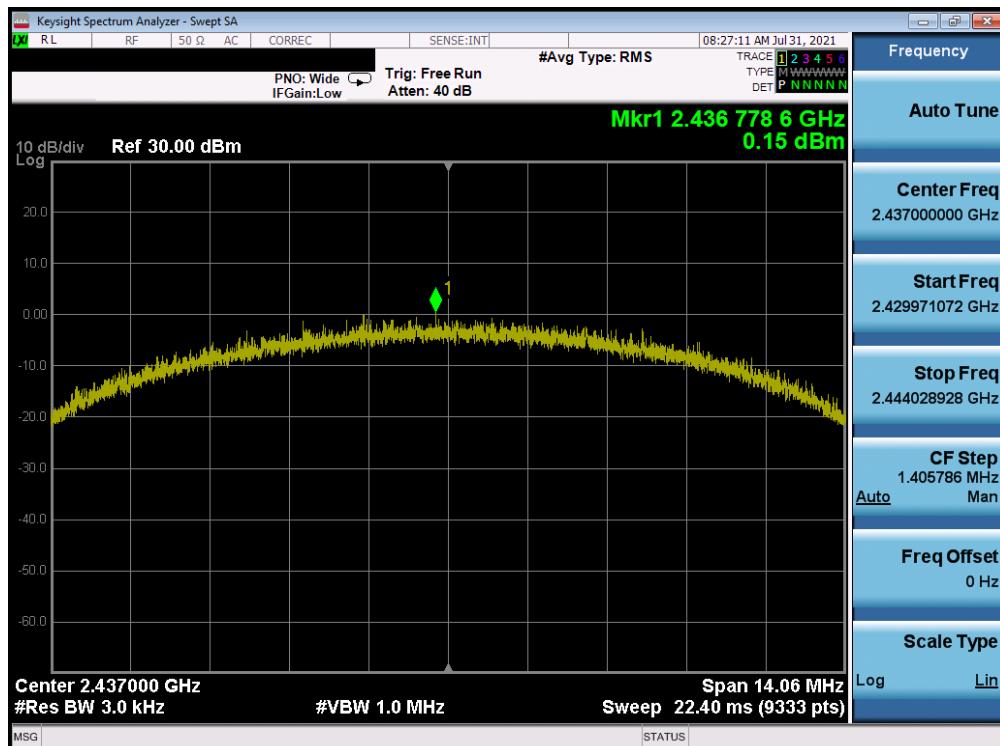
Plot 7-78. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS4

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 78 of 444

High Data Rate

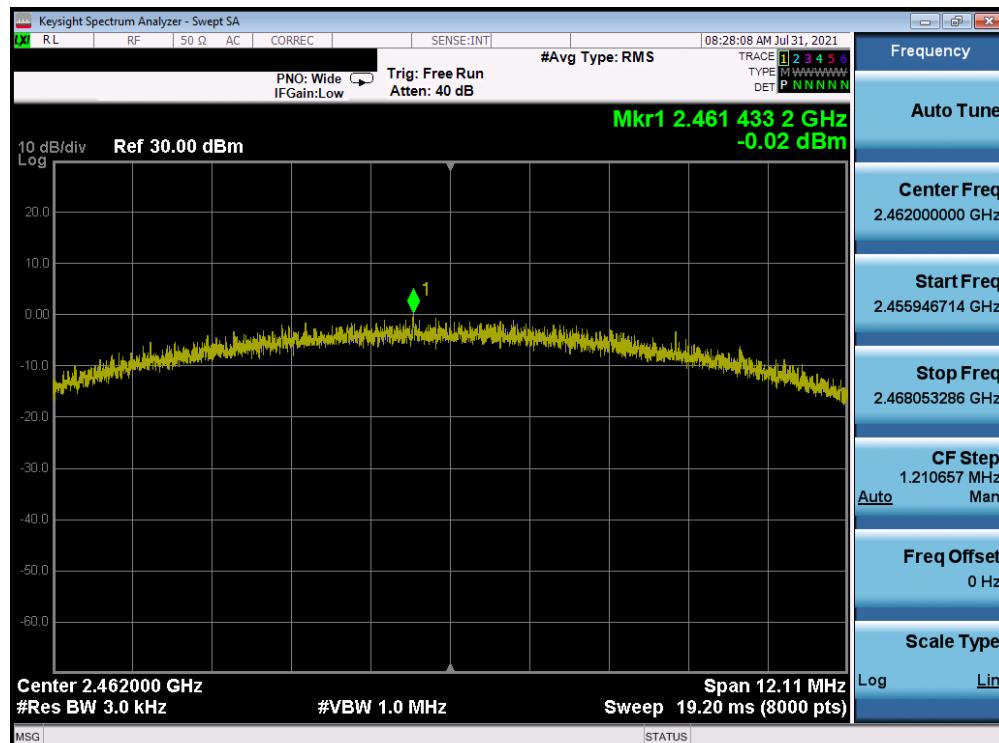


Plot 7-79. Power Spectral Density Plot Antenna 3a (802.11b – Ch. 1) – 11Mbps

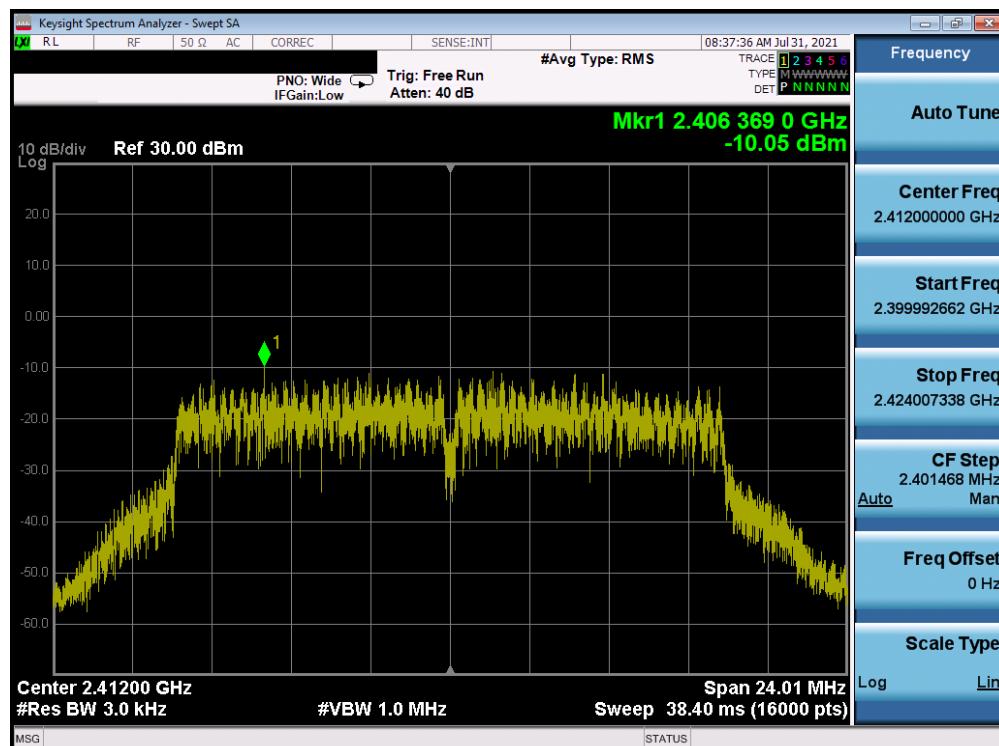


Plot 7-80. Power Spectral Density Plot Antenna 3a (802.11b – Ch. 6) – 11Mbps

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 79 of 444	

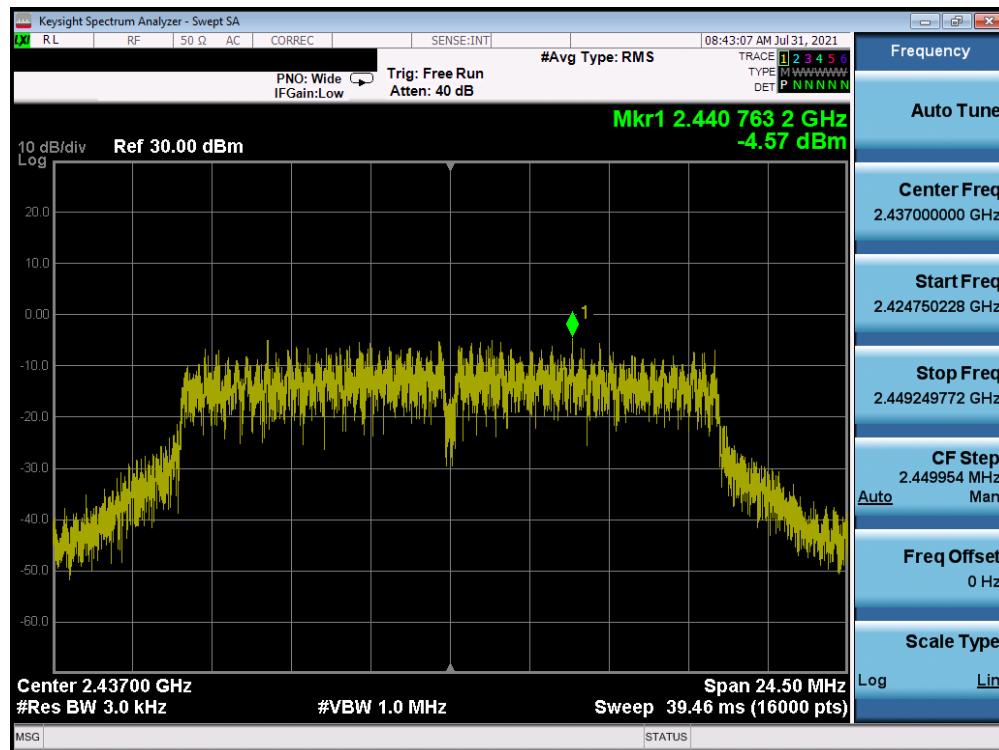


Plot 7-81. Power Spectral Density Plot Antenna 3a (802.11b – Ch. 11) – 11Mbps

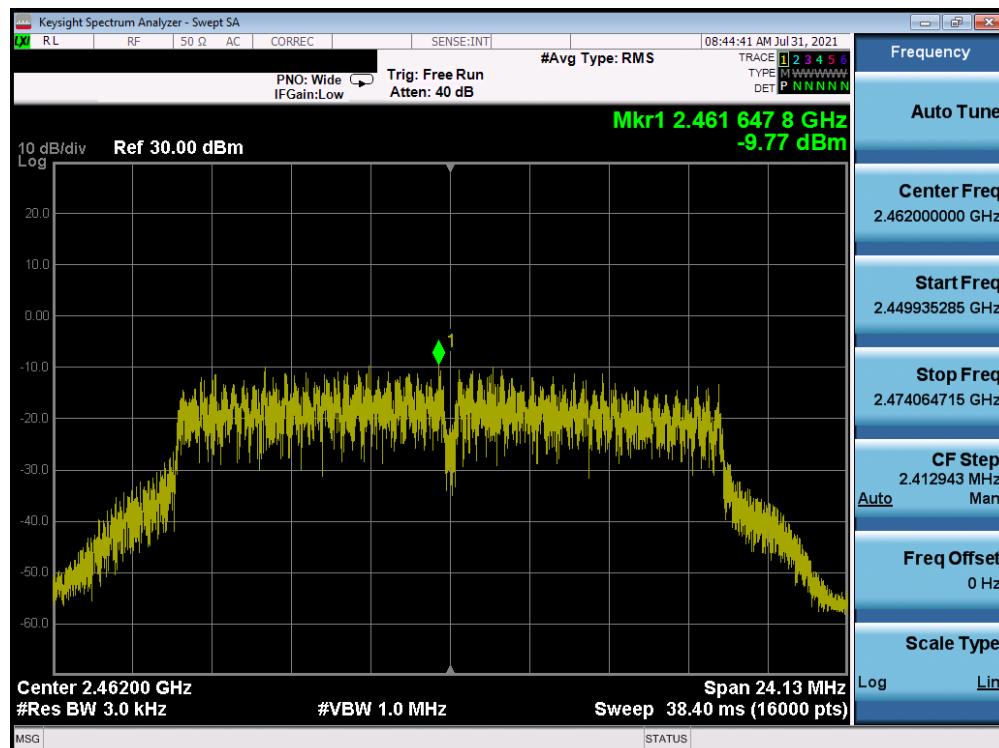


Plot 7-82. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 1) – 36Mbps

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 80 of 444

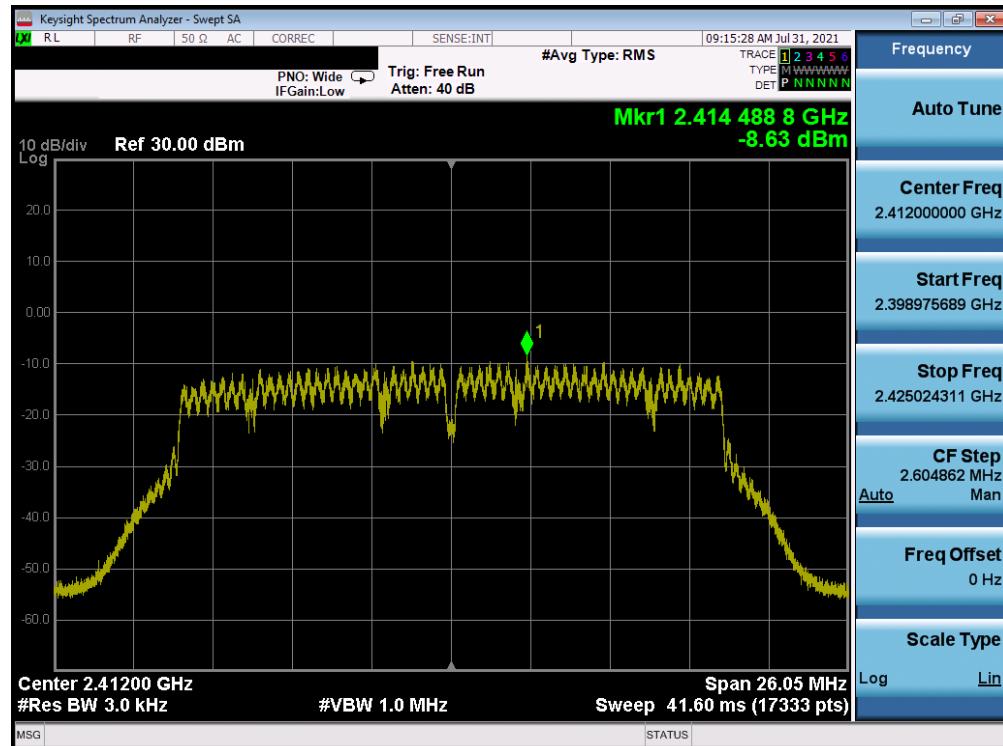


Plot 7-83. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 6) – 36Mbps

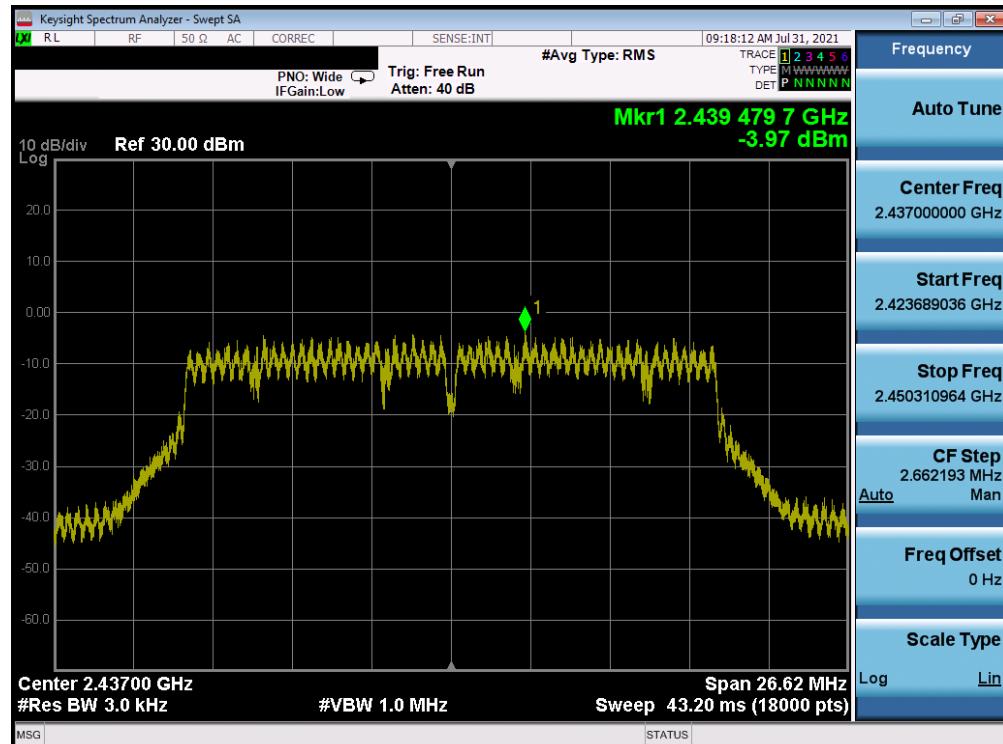


Plot 7-84. Power Spectral Density Plot Antenna 3a (802.11g – Ch. 11) – 36Mbps

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 81 of 444

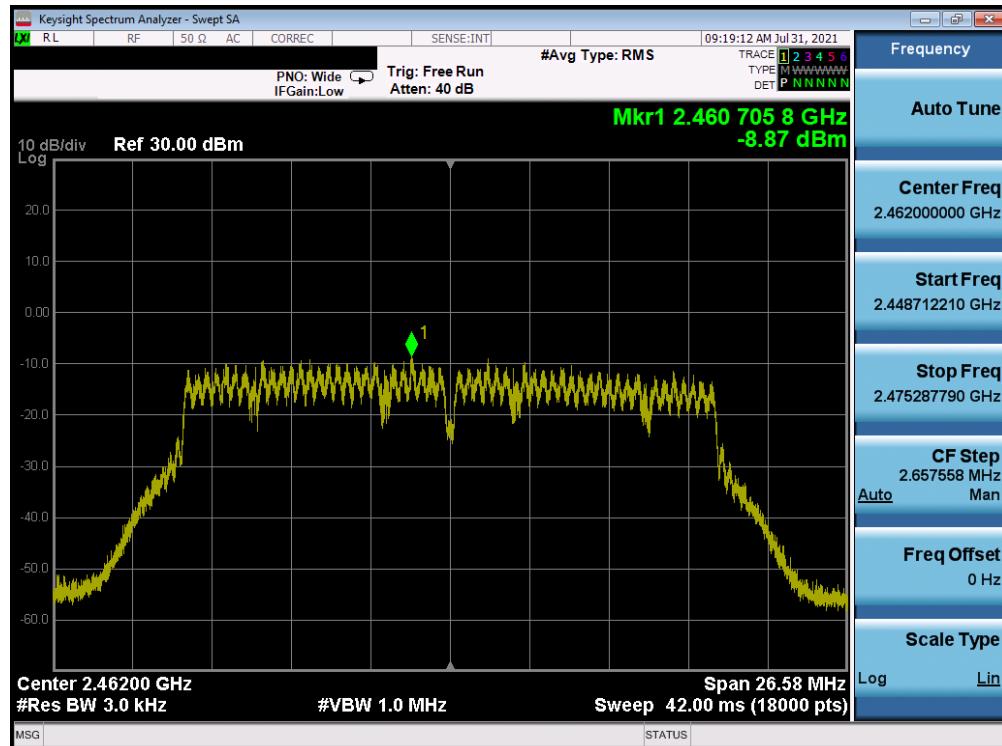


Plot 7-85. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 1) – MCS5

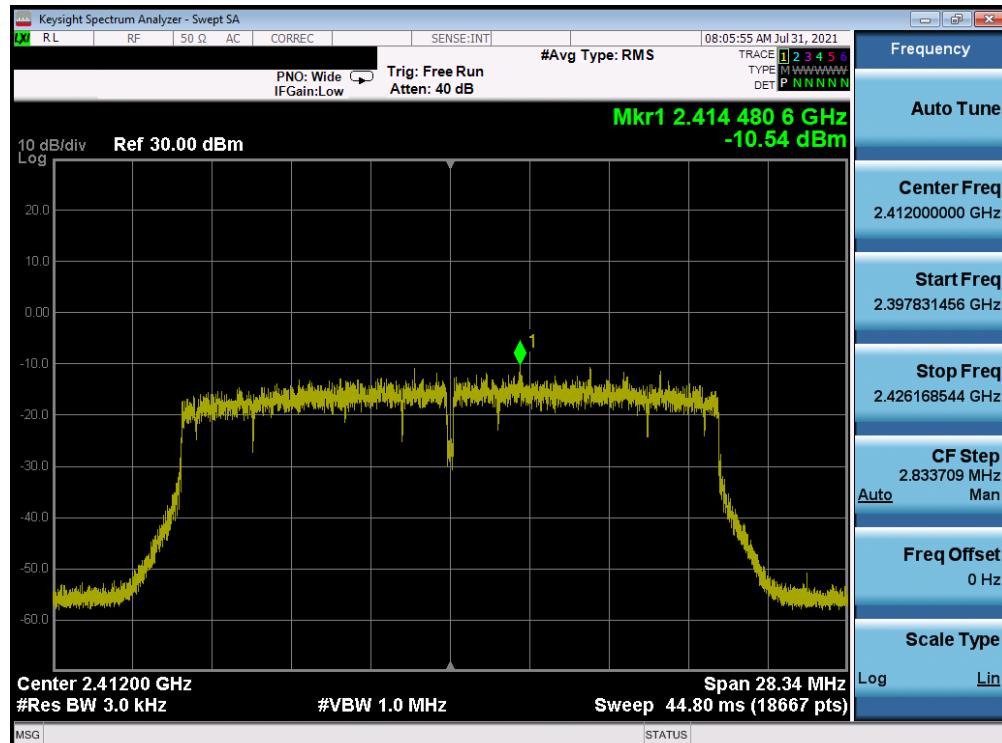


Plot 7-86. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 6) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 82 of 444

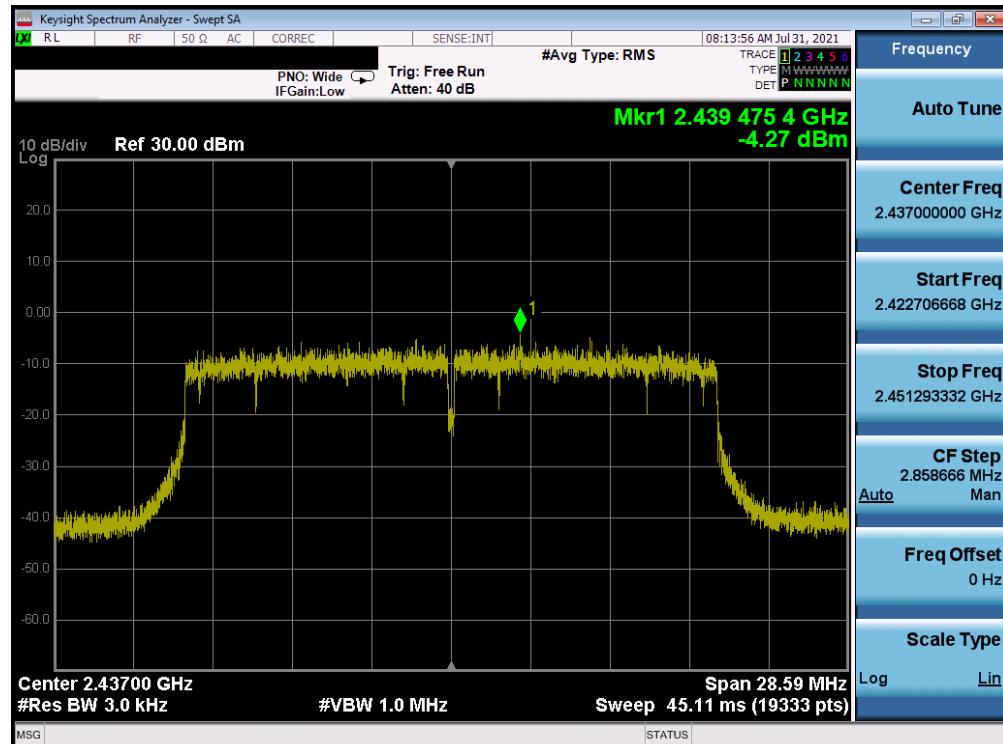


Plot 7-87. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) – Ch. 11) – MCS5

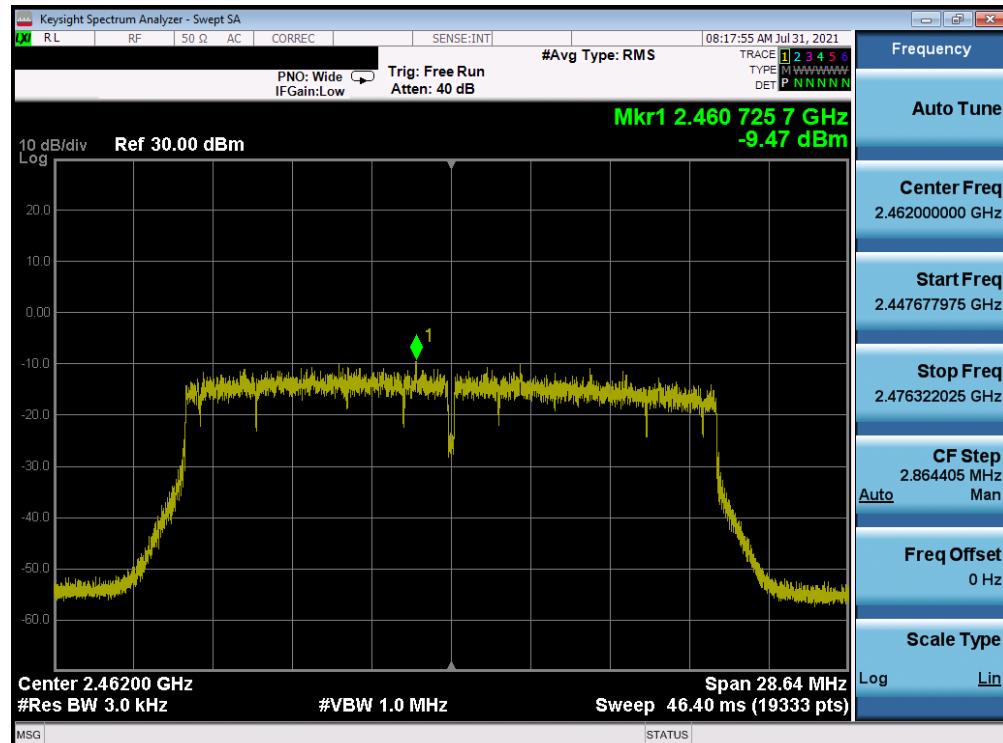


Plot 7-88. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 83 of 444	



Plot 7-89. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 6) – MCS5



Plot 7-90. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

FCC ID: BCGA2568 IC: 579C-A2568	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 84 of 444	

Antenna 1a Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	12	-8.94	8.00	-16.94	Pass
2437	6	g	12	-1.86	8.00	-9.86	Pass
2462	11	g	12	-8.36	8.00	-16.36	Pass
2412	1	n	19.5/21.7 (MCS2)	-8.31	8.00	-16.31	Pass
2437	6	n	19.5/21.7 (MCS2)	-0.96	8.00	-8.96	Pass
2462	11	n	19.5/21.7 (MCS2)	-8.18	8.00	-16.18	Pass
2412	1	ax (SU)	24/25.8 (MCS2)	-11.21	8.00	-19.21	Pass
2437	6	ax (SU)	24/25.8 (MCS2)	-3.70	8.00	-11.70	Pass
2462	11	ax (SU)	24/25.8 (MCS2)	-9.84	8.00	-17.84	Pass

Table 7-41. Conducted Power Density Measurements Antenna 1a (Low Data Rate)

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	g	24	-9.29	8.00	-17.29	Pass
2437	6	g	24	-2.75	8.00	-10.75	Pass
2462	11	g	24	-9.10	8.00	-17.10	Pass
2412	1	n	39/43.3 (MCS4)	-9.48	8.00	-17.48	Pass
2437	6	n	39/43.3 (MCS4)	-3.47	8.00	-11.47	Pass
2462	11	n	39/43.3 (MCS4)	-8.44	8.00	-16.44	Pass
2412	1	ax (SU)	49/51.6 (MCS4)	-9.61	8.00	-17.61	Pass
2437	6	ax (SU)	49/51.6 (MCS4)	-3.34	8.00	-11.34	Pass
2462	11	ax (SU)	49/51.6 (MCS4)	-8.58	8.00	-16.58	Pass

Table 7-42. Conducted Power Density Measurements Antenna 1a (Mid Data Rate)

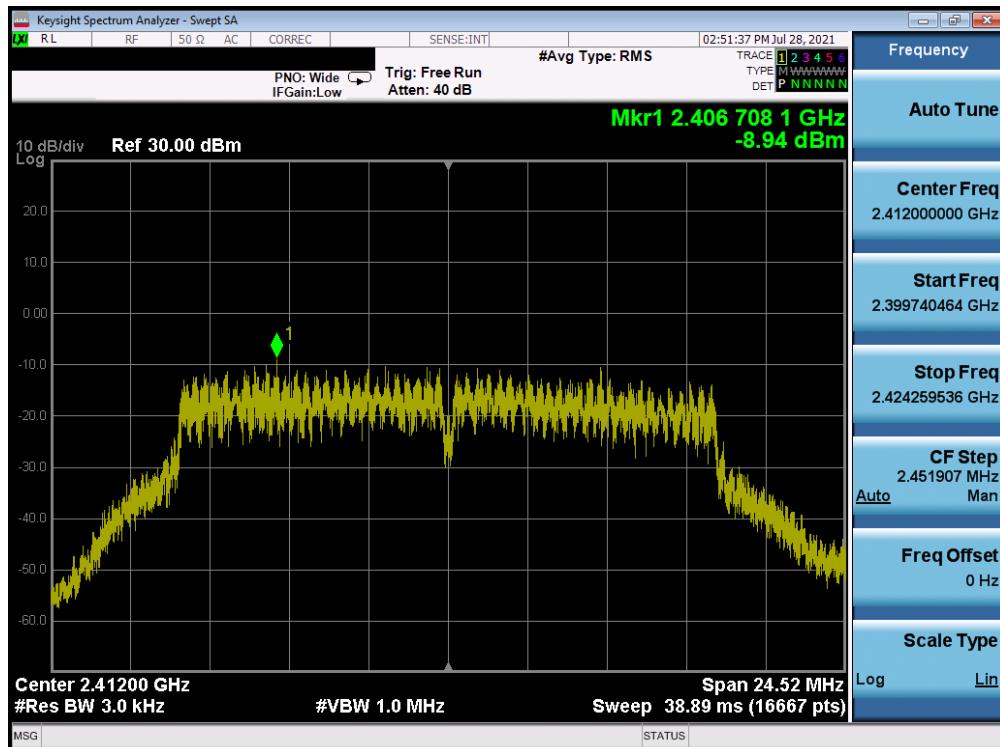
FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 85 of 444

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm / 3kHz]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]	Pass / Fail
2412	1	b	11	-4.09	8.00	-12.09	Pass
2437	6	b	11	-0.10	8.00	-8.10	Pass
2462	11	b	11	-1.23	8.00	-9.23	Pass
2412	1	g	36	-10.06	8.00	-18.06	Pass
2437	6	g	36	-4.27	8.00	-12.27	Pass
2462	11	g	36	-10.46	8.00	-18.46	Pass
2412	1	n	52/57.8 (MCS5)	-9.48	8.00	-17.48	Pass
2437	6	n	52/57.8 (MCS5)	-6.75	8.00	-14.75	Pass
2462	11	n	52/57.8 (MCS5)	-9.50	8.00	-17.50	Pass
2412	1	ax (SU)	65/68.8 (MCS5)	-10.66	8.00	-18.66	Pass
2437	6	ax (SU)	65/68.8 (MCS5)	-4.88	8.00	-12.88	Pass
2462	11	ax (SU)	65/68.8 (MCS5)	-11.22	8.00	-19.22	Pass

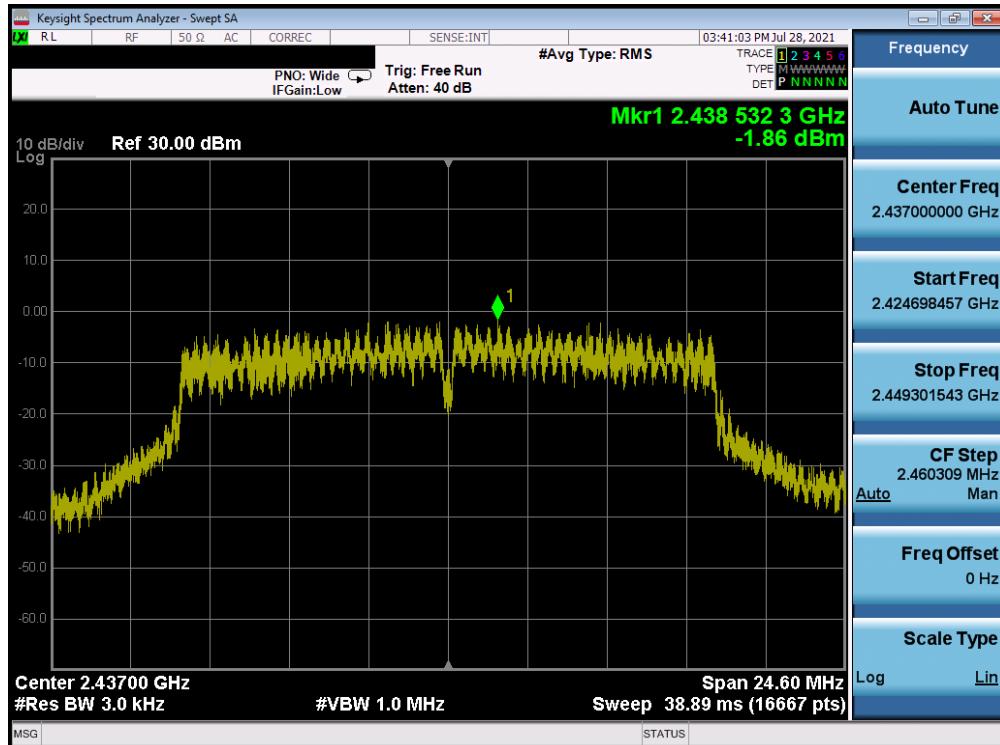
Table 7-43. Conducted Power Density Measurements Antenna 1a (High Data Rate)

FCC ID: BCGA2568 IC: 579C-A2568	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 86 of 444

Low Data Rate

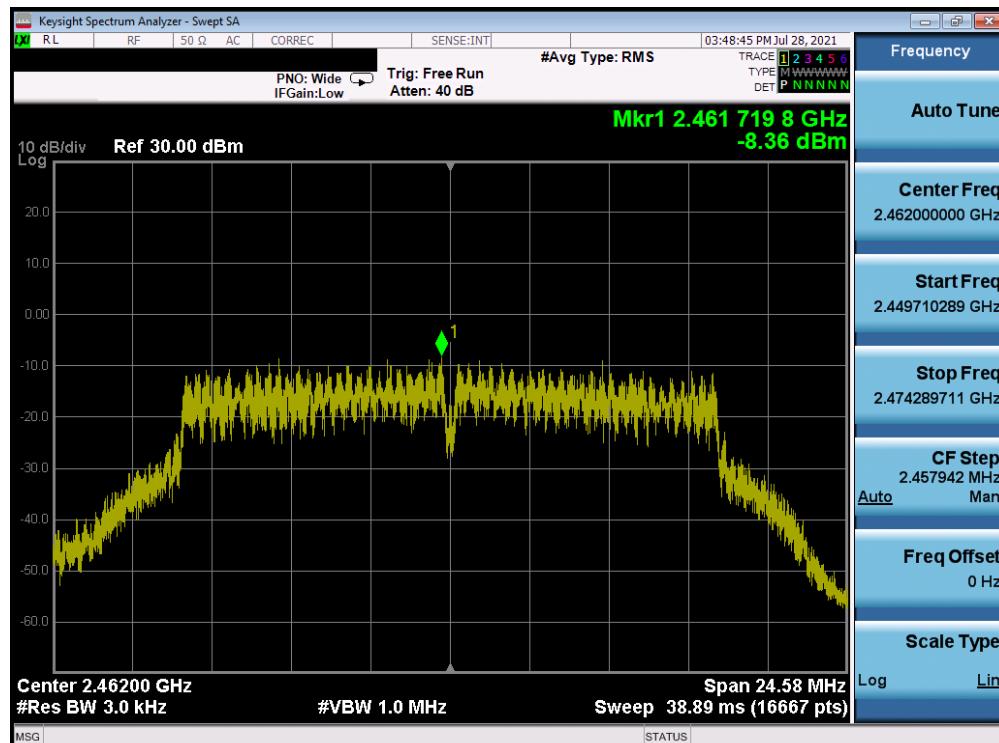


Plot 7-91. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 1) – 12Mbps

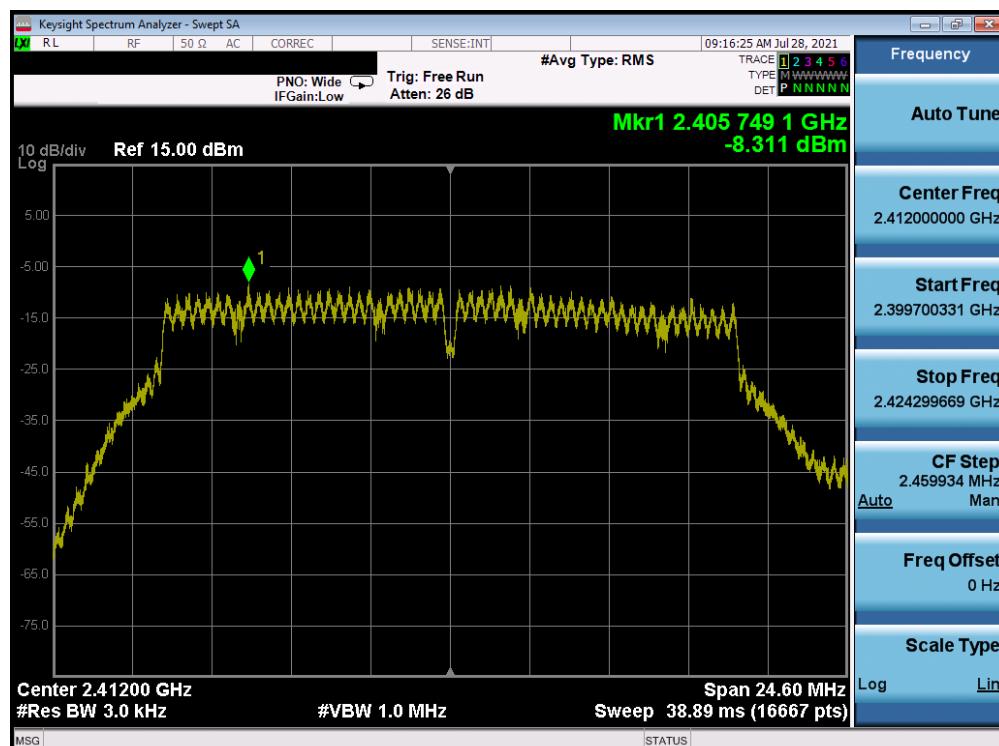


Plot 7-92. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 6) – 12Mbps

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 87 of 444



Plot 7-93. Power Spectral Density Plot Antenna 1a (802.11g – Ch. 11) – 12Mbps



Plot 7-94. Power Spectral Density Plot Antenna 1a (802.11n (2.4GHz) – Ch. 1) – MCS2

FCC ID: BCGA2568 IC: 579C-A2568	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2106080049-08.BCG	Test Dates: 6/2/2021 - 8/20/2021	EUT Type: Tablet Device	Page 88 of 444