**MEASUREMENT REPORT****FCC PART 15.407 / ISED RSS-247 UNII 802.11ax (OFDMA)****Applicant Name:**

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

Date of Testing:

5/20/2024 - 8/28/2024

Test Report Issue Date:

9/9/2024

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2405200018-23.BCG

FCC ID:	BCGA2995
IC:	579C-A2995
APPLICANT:	Apple Inc.

Application Type:	Certification
Model/HVIN:	A2995, A2996
EUT Type:	Tablet Device
Frequency Range:	5180 – 5825MHz
Modulation Type:	OFDMA
FCC Classification:	Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s):	Part 15 Subpart E (15.407)
ISED Specification:	RSS-247 Issue 3
Test Procedure(s):	ANSI C63.10-2020, KDB 789033 D02 v02r01, 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 C63.10-2020 and KDB789033 D02 v02r01. 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.



RJ Ortanez


Executive Vice President

Prepared by: WKR0000007200

Reviewed by: WKR0000005849




CERT #2041.02

FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 1 of 429

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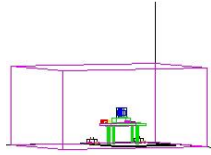
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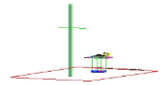
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MEASUREMENT REPORT




UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO						CDD/SDM Primary		CDD/SDM Diversity	
			Antenna 5T		Antenna 3b		Antenna 1b		Summed		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	82.414	19.16	88.308	19.46	86.298	19.36	94.189	19.74	96.161	19.83
2A		5260 - 5320	86.896	19.39	86.696	19.38	83.946	19.24	96.828	19.86	96.161	19.83
2C		5500 - 5720	86.497	19.37	87.700	19.43	88.308	19.46	98.628	19.94	97.949	19.91
3		5745 - 5825	86.896	19.39	86.696	19.38	88.105	19.45	170.608	22.32	165.577	22.19
1	40	5190 - 5230	77.625	18.90	78.524	18.95	78.705	18.96	156.675	21.95	154.170	21.88
2A		5270 - 5310	86.696	19.38	88.920	19.49	88.716	19.48	122.462	20.88	124.738	20.96
2C		5510 - 5710	87.096	19.40	88.512	19.47	89.125	19.50	171.002	22.33	168.655	22.27
3		5755 - 5795	85.704	19.33	88.920	19.49	87.297	19.41	174.985	22.43	176.198	22.46
1	80	5210	19.679	12.94	19.679	12.94	19.724	12.95	39.264	15.94	39.355	15.95
2A		5290	21.878	13.40	22.131	13.45	21.677	13.36	43.752	16.41	43.451	16.38
2C		5530 - 5690	86.298	19.36	82.035	19.14	84.333	19.26	164.816	22.17	171.791	22.35
3		5775	49.545	16.95	48.417	16.85	49.545	16.95	77.268	18.88	76.208	18.82
1/2A	160	5250	13.646	11.35	14.093	11.49	13.583	11.33	22.131	13.45	22.080	13.44
2C		5570	9.772	9.90	9.886	9.95	9.572	9.81	19.634	12.93	19.364	12.87

FCC EUT Overview

UNII Band	Channel Bandwidth (MHz)	Tx Frequency (MHz)	SISO						CDD/SDM Primary		CDD/SDM Diversity	
			Antenna 5T		Antenna 3b		Antenna 1b		Summed		Summed	
			Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1	20	5180 - 5240	29.040	14.63	29.174	14.65	29.580	14.71	29.580	14.71	28.973	14.62
2A		5260 - 5320	86.896	19.39	86.696	19.38	83.946	19.24	96.828	19.86	96.161	19.83
2C		5500 - 5720	86.497	19.37	87.700	19.43	88.308	19.46	98.628	19.94	97.949	19.91
3		5745 - 5825	86.896	19.39	86.696	19.38	88.105	19.45	170.608	22.32	165.577	22.19
1	40	5190 - 5230	52.845	17.23	52.845	17.23	52.360	17.19	51.286	17.10	50.234	17.01
2A		5270 - 5310	86.696	19.38	88.920	19.49	88.716	19.48	122.462	20.88	124.738	20.96
2C		5510 - 5710	87.096	19.40	88.512	19.47	88.920	19.49	171.002	22.33	168.655	22.27
3		5755 - 5795	85.704	19.33	88.920	19.49	87.297	19.41	174.985	22.43	176.198	22.46
1	80	5210	19.055	12.80	19.953	13.00	19.861	12.98	38.459	15.85	38.371	15.84
2A		5290	21.878	13.40	22.131	13.45	21.677	13.36	43.752	16.41	43.451	16.38
2C		5530 - 5690	86.298	19.36	82.035	19.14	84.333	19.26	164.816	22.17	171.791	22.35
3		5775	49.545	16.95	48.417	16.85	49.545	16.95	77.268	18.88	76.208	18.82
1/2A	160	5250	19.409	12.88	18.281	12.62	19.634	12.93	38.282	15.83	38.107	15.81

ISED EUT Overview

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1.0 INTRODUCTION

1.1 Scope

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


1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

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

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA2995** and **IC: 579C-A2995**. The test data contained in this report pertains only to the emissions due to the EUT's UNII 802.11ax - RU transmitter.

Test Device Serial No.: GW373NWX36, GXD3JTXYXM, W64VVD6Q0H, J2DT9VW3FP, WH6226Y7R5, H9HH4U0007A0000R51, H9HH4Z000940000CFX

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, 802.11a/ax WIFI 6E, 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), NB UNII (1x, HDR4, HDR8), WPT.

This device supports BT Beamforming.

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
:	:	:	:	:	:	:	:
40	5200	56	5280	116	5580	157	5785
:	:	:	:	:	:	:	:
48	5240	64	5320	144	5720	165	5825

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

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
:	:	:	:	:	:	:	:
46	5230	62	5310	110	5550	159	5795
				:	:		
				142	5710		


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

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
				:	:		
				138	5690		

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

Band 1		Band 2A		Band 2C	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
50	5250	50	5250	114	5570

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

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Notes:

1. TDWR channels are not supported for ISED.
2. 5GHz NII operation is possible in 20MHz, 40MHz, 80MHz, and 160MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of KDB 789033 D02 v02r01 and ANSI C63.10-2020. 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:

Measured Duty Cycles						
802.11 Mode/Band		Duty Cycle [%]				
		Antenna 5T	Antenna 3b	Antenna 1b	CDD/SDM Primary	CDD/SDM Diversity
5GHz	11ax(RU) 26T HE20	74.18	88.45	92.79	88.48	82.30
	11ax(RU) 52T HE20	87.30	87.96	87.66	87.34	87.34
	11ax(RU) 242T HE20	90.37	90.73	89.58	90.35	89.96
	11ax(RU) 26T HE40	92.83	95.95	88.45	96.23	88.33
	11ax(RU) 52T HE40	87.30	87.58	87.94	87.62	87.94
	11ax(RU) 484T HE40	92.11	92.09	92.55	92.09	92.58
	11ax(RU) 26T HE80	88.48	88.48	98.33	79.04	74.52
	11ax(RU) 52T HE80	87.80	88.25	87.96	87.66	87.94
	11ax(RU) 996T HE80	86.63	86.90	87.40	87.10	87.40
	11ax(RU) 52T HE160	87.90	87.94	87.30	87.94	87.58
	11ax(RU) 996x2T HE160	81.32	81.32	81.40	82.10	82.10

Table 2-4. Measured Duty Cycles


CDD/SDM Primary = Antenna 5T + Antenna 3b
CDD/SDM Diversity = Antenna 5T + Antenna 1b

3. The device employs CDD/SDM technology. Below are the possible configurations.

WiFi Configurations		SISO			CDD			SDM			STBC		
		Antenna 5T	Antenna 3b	Antenna 1b	Antenna 5T	Antenna 3b	Antenna 1b	Antenna 5T	Antenna 3b	Antenna 1b	Antenna 5T	Antenna 3b	Antenna 1b
5GHz	11ax (20MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (40MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (80MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	11ax (160MHz)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Table 2-5. WIFI Configurations

✓ = Support ; ✗ = NOT Support
SISO = Single Input Single Output
CDD = Cyclic Delay Diversity – 2Tx Function
SDM = Spatial Diversity Multiplexing – CDD/SDM function
STBC = Space-Time Block Coding – 2Tx Function

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4. The device supports the following data rates (shown in Mbps):

MCS Index	Spatial Stream	MU-OFDMA (802.11ax)																							
		26-tone RU			52-tone RU			106-tone RU			242-tone RU			484-tone RU			996-tone RU			2x996-tone RU					
		0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI	0.8µs GI	1.6µs GI	3.2µs GI			
0	1	0.9	0.8	0.8	1.8	1.7	1.5	3.8	3.5	3.2	8.6	8.1	7.3	17.2	16.3	14.6	36	34	30.6	72.1	68.1	61.3			
1	1	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5			
2	1	2.6	2.5	2.3	5.3	5	4.5	11.3	10.6	9.6	25.8	24.4	21.9	51.6	48.8	43.9	108.1	102.1	91.9	216.2	204.2	183.8			
3	1	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245			
4	1	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5			
5	1	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490			
6	1	7.9	7.5	6.8	15.9	15	13.5	33.8	31.9	28.7	77.4	73.1	65.8	154.9	146.3	131.6	324.3	306.3	275.6	648.5	612.5	551.3			
7	1	8.8	8.3	7.5	17.6	16.7	15	37.5	35.4	31.9	86	81.3	73.1	172.1	162.5	146.3	360.3	340.3	306.3	720.6	680.6	612.5			
8	1	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735			
9	1	11.8	11.1	10	23.5	22.2	20	50	47.2	42.5	114.7	108.3	97.5	229.4	216.7	195	480.4	453.7	408.3	960.8	907.4	816.7			
10	1	13.2	12.5	11.3	26.5	25	22.5	56.3	53.1	47.8	129	121.9	109.7	258.1	243.8	219.4	540.4	510.4	459.4	1080.9	1020.8	918.8			
11	1	14.7	13.9	12.5	29.4	27.8	25	62.5	59	53.1	143.4	135.4	121.9	286.8	270.8	243.8	600.5	567.1	510.4	1201	1134.3	1020.8			
0	2	1.8	1.7	1.5	3.5	3.3	3	7.5	7.1	6.4	17.2	16.3	14.6	34.4	32.5	29.3	72.1	68.1	61.3	144.1	136.1	122.5			
1	2	3.5	3.3	3	7.1	6.7	6	15	14.2	12.8	34.4	32.5	29.3	68.8	65	58.5	144.1	136.1	122.5	288.2	272.2	245			
2	2	5.3	5	4.5	10.6	10	9	22.5	21.3	19.1	51.6	48.8	43.9	103.2	97.5	87.8	216.2	204.2	183.8	432.4	408.3	367.5			
3	2	7.1	6.7	6	14.1	13.3	12	30	28.3	25.5	68.8	65	58.5	137.6	130	117	288.2	272.2	245	576.5	544.4	490			
4	2	10.6	10	9	21.2	20	18	45	42.5	38.3	103.2	97.5	87.8	206.5	195	175.5	432.4	408.3	367.5	864.7	816.7	735			
5	2	14.1	13.3	12	28.2	26.7	24	60	56.7	51	137.6	130	117	275.3	260	234	576.5	544.4	490	1152.9	1088.9	980			
6	2	15.9	15	13.5	31.8	30	27	67.5	63.8	57.4	154.9	146.3	131.6	309.7	292.5	263.3	648.5	612.5	551.3	1297.1	1225	1102.5			
7	2	17.6	16.7	15	35.3	33.3	30	75	70.8	63.8	172.1	162.5	146.3	344.1	325	292.5	720.6	680.6	612.5	1441.1	1361.1	1225			
8	2	21.2	20	18	42.4	40	36	90	85	76.5	206.5	195	175.5	412.9	390	351	864.7	816.7	735	1729.4	1633.3	1470			
9	2	23.5	22.2	20	47.1	44.4	40	100	94.4	85	229.4	216.7	195	458.8	433.3	390	960.8	907.4	816.7	1921.6	1814.8	1633.3			
10	2	26.5	25	22.5	52.9	50	45	112.5	106.3	95.6	258.1	243.8	219.4	516.2	487.5	438.8	1080.9	1020.8	918.8	2161.8	2041.7	1837.5			
11	2	29.4	27.8	25	58.8	55.6	50	125	118.1	106.3	286.8	270.8	243.8	573.5	541.7	487.5	1201	1134.3	1020.8	2402	2268.5	2041.7			


Table 2-6. Supported Data Rates

5. 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	Bluetooth 2.4GHz	Thread	NB UNII	WLAN	WIFI 5GHz	WIFI 6GHz	LTE / FR1 NR		
		BDR, EDR, HDR4/8, LE1/2M	802.15.4	BDR, HDR4/8	802.11 b/g/n/ax	802.11 a/n/ac/ax	802.11 a/ax	LB	MB/HB	Ultra High Band
1a	Config 1	✓	✗	✗	✗	✗	✗	✗	✗	✓
1a	Config 2	✗	✗	✗	✓	✗	✗	✗	✗	✓
1a	Config 3	✗	✓	✗	✗	✗	✗	✗	✗	✓
1b	Config 4	✗	✗	✓	✗	✗	✗	✗	✓	✗
1b	Config 5	✗	✗	✗	✗	✓	✗	✗	✓	✗
1b	Config 6	✗	✗	✗	✗	✗	✓	✗	✓	✗
3a	Config 7	✗	✗	✗	✓	✗	✗	✗	✗	✓
3a	Config 8	✓	✗	✗	✗	✗	✗	✗	✗	✓
3a	Config 9	✗	✓	✗	✗	✗	✗	✗	✗	✓
3b	Config 10	✗	✗	✓	✗	✗	✗	✗	✓	✗
3b	Config 11	✗	✗	✗	✗	✓	✗	✗	✓	✗
3b	Config 12	✗	✗	✗	✗	✗	✓	✗	✓	✗
4	Config 13	✓	✗	✗	✗	✗	✗	✓	✗	✗
4	Config 14	✓	✗	✗	✗	✗	✗	✗	✓	✗
4	Config 15	✓	✗	✗	✗	✗	✗	✗	✗	✓
4	Config 16	✗	✓	✗	✗	✗	✗	✓	✗	✗
4	Config 17	✗	✓	✗	✗	✗	✗	✗	✓	✗
4	Config 18	✗	✓	✗	✗	✗	✗	✗	✗	✓

Table 2-7. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

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Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 14 and reported in RF Bluetooth, RF Part 27b and RSS-199 test reports.

Specific 2.4GHz Wi-Fi antenna that can only transmit simultaneously with 2.4GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4GHz) in both connected and disconnected modes, and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5/6 GHz on separate antenna.

2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.


Frequency [GHz]	Antenna Gain (dBi)		
	Antenna 5T	Antenna 3b	Antenna 1b
5.150 – 5.250	3.7	3.5	-1.0
5.250 – 5.350	3.7	3.3	-0.1
5.470 – 5.725	4.6	3.0	1.6
5.725 – 5.850	3.7	1.9	0.8

Table 2-8. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple MacBook Pro w/AC/DC Adapter	Model: Model:	A2141 A2166	S/N: S/N:	C02H604EQ05D C4H042705ZNPM0WA6
2	Apple USB-C Cable	Model:	Spartan	S/N:	GXK1336018XKTR024
3	USB-C Cable w/ AC Adapter	Model: Model:	A246C A2305	S/N: S/N:	DWH80115BK826GV19 C4H95160004PF4F4V
4	Apple Pencil	Model:	A2538	S/N:	KJ26TCFXJW
5	DC Power Supply	Model:	KPS3010D	S/N:	N/A

Table 2-9. Test Support Equipment List

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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 789033 D02 v02r01. ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, 3.3 for radiated emissions test setups, and 7.2, 7.3, 7.4, and 7.5 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

802.11ax-RU HE20/40/80/160 2TX CDD/SDM mode test data provided in this report covers 802.11ax-RU HE20/40/80/160 2TX STBC mode.


For 802.11a/n/ac/ax-SU test results, see separate UNII report, 1C2405200018-22.BCG.

2.6 Software and Firmware

The test was conducted with firmware version 22A312 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 C63.10-2020) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None


3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 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 ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

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

Line conducted emissions test results are shown in Section 7.8. 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 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

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

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

3.4 Environmental Conditions

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

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4.0 ANTENNA REQUIREMENTS


Excerpt from §15.203 of the FCC Rules/Regulations:

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

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

Conclusion:

The EUT complies with the requirement of §15.203.

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5.0 MEASUREMENT UNCERTAINTY

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

Contribution	Expanded Uncertainty (\pm dB)
Conducted Bench Top Measurements	2.07
Line Conducted Disturbance	1.91
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz - 1GHz)	4.85
Radiated Disturbance (1 - 18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

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6.0 TEST EQUIPMENT CALIBRATION DATA


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

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-26.5GHz PXA Signal Analyzer	10/18/2023	Annual	10/18/2024	MY55330128
Anritsu	ML2495A	Power Meter	7/8/2024	Annual	7/8/2025	1039008
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Anritsu	MA2411B	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
ATM	180-442A-KF	20dB Nominal Gain Horn Antenna	3/14/2024	Annual	3/14/2025	T058701-01
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	4/9/2024	Annual	4/9/2025	00218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz Conducted Cable/Attenuator *	6/10/2024	Annual	6/10/2025	-
Keysight Technology	N9040B	UXA Signal Analyzer	5/28/2024	Annual	5/28/2025	MY57212015
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/15/2023	Annual	8/15/2024	101639
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/15/2025	101648
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/29/2024	Annual	5/29/2025	101619
Rohde & Schwarz	ESW44	EMI Test Receiver	5/1/2024	Annual	5/1/2025	101867
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	7/3/2024	Annual	7/3/2025	102356
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/10/2024	Annual	6/10/2025	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/21/2024	Annual	6/21/2025	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	4/24/2024	Annual	4/24/2025	101364
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	4/29/2024	Annual	4/29/2025	00304

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.
- * denotes passive equipment that have been internally verified/calibrated.

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7.0 TEST RESULTS

7.1 Summary


Company Name: Apple Inc.
 FCC ID: BCGA2995
 IC: 579C-A2995
 FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407	RSS-Gen [6.7]	26dB Bandwidth	N/A	CONDUCTED	N/A	Section 7.2
15.407(e)	RSS-Gen [6.7]	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.2, 7.3
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [6.2]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [6.2]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.5
15.407(h)	RSS-247 [6.3]	Dynamic Frequency Selection	See DFS Test Report	RADIATED	PASS	See DFS Test Report (1C240520001 8-21.BCG)
15.407(b.1), (2), (3), (4)	RSS-247 [6.2]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])		PASS	Section 7.6
15.205, 15.407(b.1), (4), (5), (6)	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])		PASS	Section 7.6, 7.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 (RSS-Gen [8.8]) limits	AC LINE CONDUCTED	PASS	Section 7.8

Table 7-1. Summary of Test Results

Notes:

1. All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation Software," Version 1.1.0.
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 Element "Chamber Automation," Version 3.0.0.
6. Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
7. 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
8. Only one RU index could be selected at a time so no contiguous or non-contiguous RU's were considered for testing.

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7.2 26dB & 99% Bandwidth Measurement

§2.1049; §15.407; RSS-Gen [6.7]

Test Overview and Limit

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

The 26dB bandwidth is used to determine the conducted power limits.

Test Procedure Used

ANSI C63.10-2020 – Section 12.5.2
KDB 789033 D02 v02r01 – Section C

Test Settings

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

Test Setup


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



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

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


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7.2.1 Antenna 5T 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.26	19.55
				26	4	12.5/14.7 (MCS11)	17.06	18.19
				26	8	12.5/14.7 (MCS11)	18.25	19.31
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.19	19.49
				26	4	12.5/14.7 (MCS11)	17.05	18.09
				26	8	12.5/14.7 (MCS11)	18.04	19.48
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.19	19.34
				26	4	12.5/14.7 (MCS11)	17.06	18.01
				26	8	12.5/14.7 (MCS11)	18.32	19.55
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.21	19.60
				26	8	12.5/14.7 (MCS11)	19.40	20.99
				26	17	12.5/14.7 (MCS11)	18.01	19.80
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.95	19.56
				26	8	12.5/14.7 (MCS11)	19.68	22.51
				26	17	12.5/14.7 (MCS11)	18.06	19.63
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	18.13	19.40
				26	18	12.5/14.7 (MCS11)	36.96	38.40
				26	36	12.5/14.7 (MCS11)	18.13	20.12

Table 7-2. Conducted BW Measurements Antenna 5T (RU26)


FCC ID: BCGA2995 IC: 579C-A2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 17 of 429

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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1/2A	5250	50 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	18.31	20.78
		50 (U)		52	52	25/29.4 (MCS11)	19.98	24.70
				52	52	25/29.4 (MCS11)	18.55	21.78
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	18.09	19.55
				52	38	25/29.4 (MCS11)	17.16	18.44
				52	40	25/29.4 (MCS11)	18.22	19.60
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	18.11	19.58
				52	38	25/29.4 (MCS11)	17.11	18.25
				52	40	25/29.4 (MCS11)	18.20	19.44
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.08	19.47
				52	38	25/29.4 (MCS11)	17.16	18.43
				52	40	25/29.4 (MCS11)	18.23	19.64
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	17.87	20.23
				52	40	25/29.4 (MCS11)	19.28	21.66
				52	44	25/29.4 (MCS11)	18.03	20.60
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	17.93	19.81
				52	40	25/29.4 (MCS11)	19.42	22.95
				52	44	25/29.4 (MCS11)	18.07	20.65
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	17.92	19.65
				52	44	25/29.4 (MCS11)	19.82	25.94
				52	52	25/29.4 (MCS11)	18.00	19.91
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	18.11	19.66
				52	38	25/29.4 (MCS11)	17.16	18.39
				52	40	25/29.4 (MCS11)	18.22	19.72
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	18.08	19.60
				52	38	25/29.4 (MCS11)	17.17	18.15
				52	40	25/29.4 (MCS11)	18.16	19.86
	5600*	120	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14	19.60
				52	38	25/29.4 (MCS11)	17.10	18.43
				52	40	25/29.4 (MCS11)	18.20	19.64
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	18.13	19.57
				52	38	25/29.4 (MCS11)	17.13	18.28
				52	40	25/29.4 (MCS11)	18.18	19.70
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	17.98	20.25
				52	40	25/29.4 (MCS11)	19.50	24.23
				52	44	25/29.4 (MCS11)	18.04	19.94
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	17.91	20.15
				52	40	25/29.4 (MCS11)	19.23	23.39
				52	44	25/29.4 (MCS11)	18.03	20.29
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	17.95	19.93
				52	40	25/29.4 (MCS11)	19.41	23.86
				52	44	25/29.4 (MCS11)	17.99	20.47
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	17.83	19.35
				52	44	25/29.4 (MCS11)	20.61	25.45
				52	52	25/29.4 (MCS11)	18.06	20.38
	5610*	122	ax (80MHz)	52	37	25/29.4 (MCS11)	17.80	19.58
				52	44	25/29.4 (MCS11)	20.38	25.75
				52	52	25/29.4 (MCS11)	18.08	19.78
5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	17.96	19.99	
			52	44	25/29.4 (MCS11)	20.03	22.70	
			52	52	25/29.4 (MCS11)	18.04	19.89	
5570*	114 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	18.28	19.99	
	114 (U)		52	52	25/29.4 (MCS11)	19.67	22.96	
			52	52	25/29.4 (MCS11)	18.54	21.65	

Table 7-3. Conducted BW Measurements Antenna 5T (RU52)

*TDWR channel is not supported for ISED (denoted by a * next to the frequency)

FCC ID: BCGA2995 IC: 579C-A2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 18 of 429


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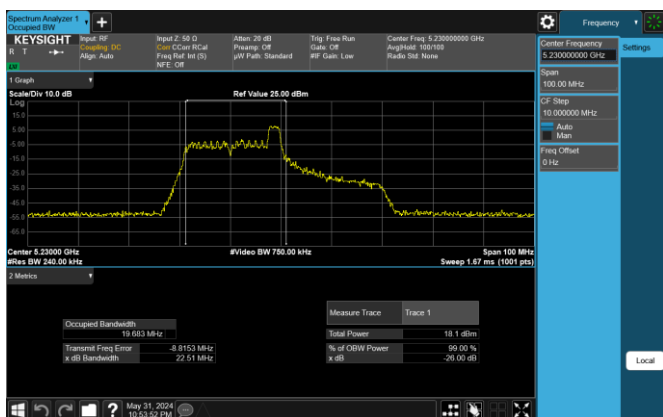
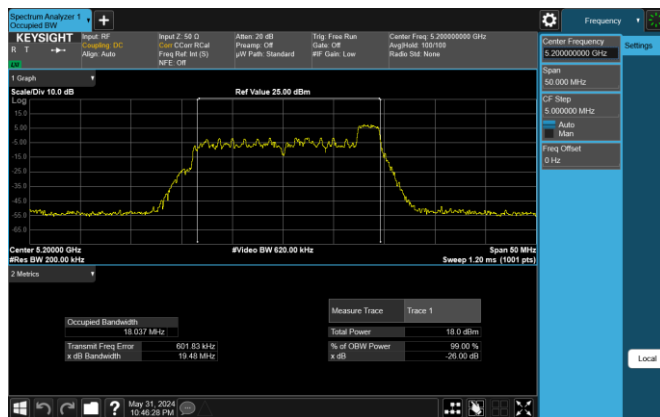
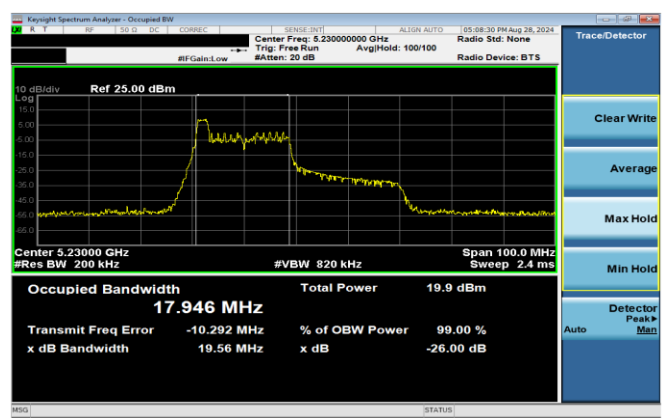
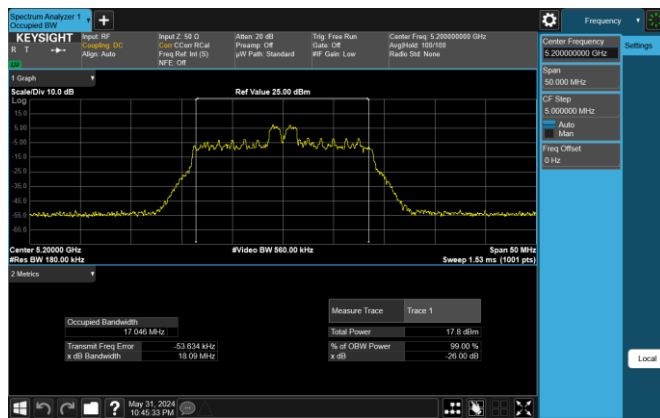
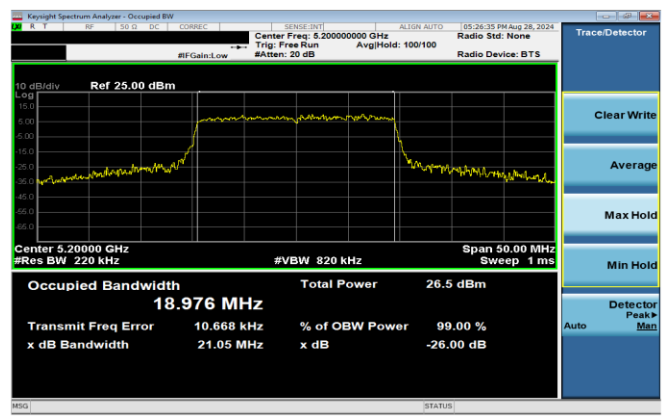
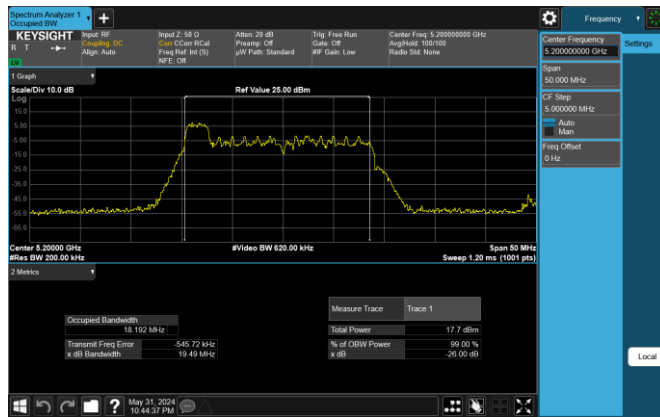
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.00	21.10
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.98	21.05
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.00	21.10
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.85	41.14
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.88	41.47
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	76.97	81.47
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.51	164.88
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.01	21.06
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.04	21.08
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.96	21.03
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.89	41.40
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.83	41.35
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.09	80.72
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	20.94
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.05
	5600*	120	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.18
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	20.80
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.88	41.24
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.86	41.16
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.98	40.97
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.14	81.19
	5610*	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.07	81.57
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.28	81.05
	5570*	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.76	165.28


Table 7-4. Conducted BW Measurements Antenna 5T (Fully – loaded RU)

*TDWR channel is not supported for ISED (denoted by a * next to the frequency)

FCC ID: BCGA2995 IC: 579C-A2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 19 of 429

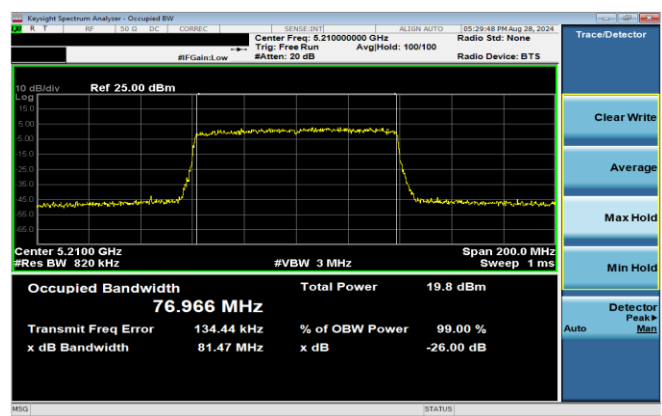
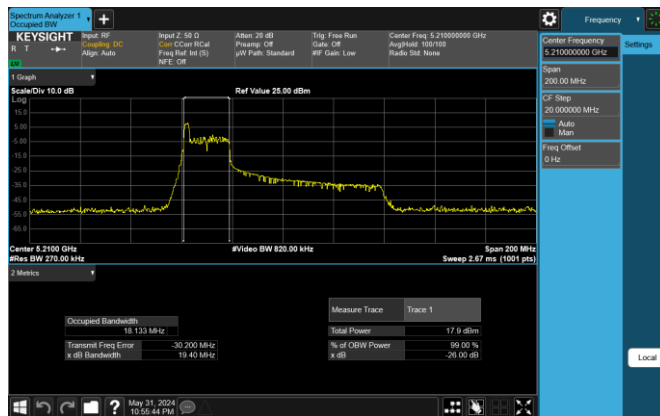
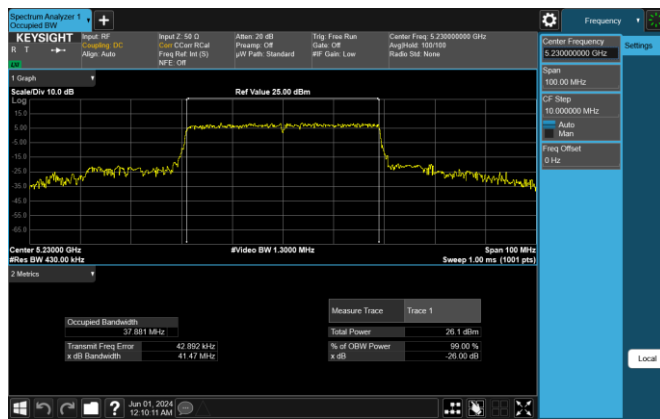
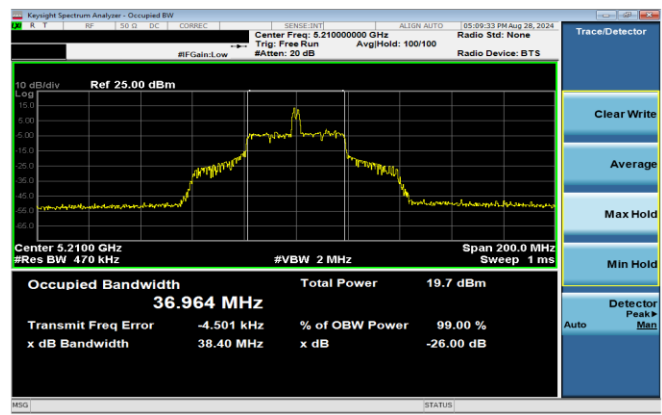
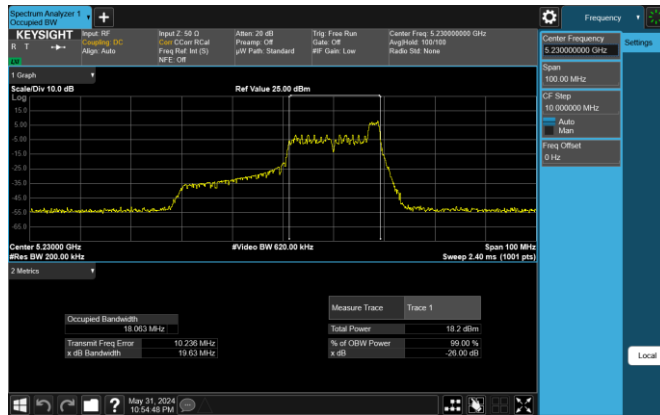
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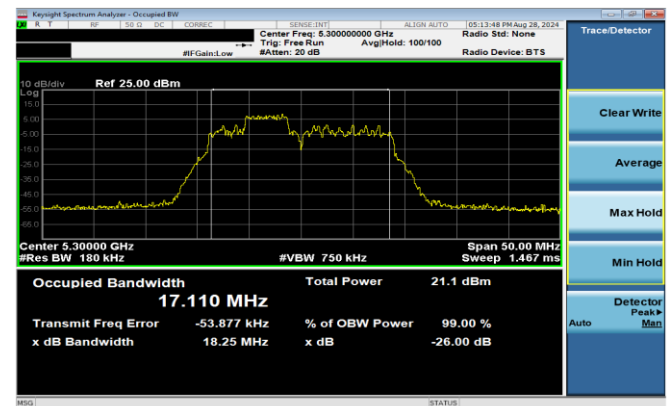
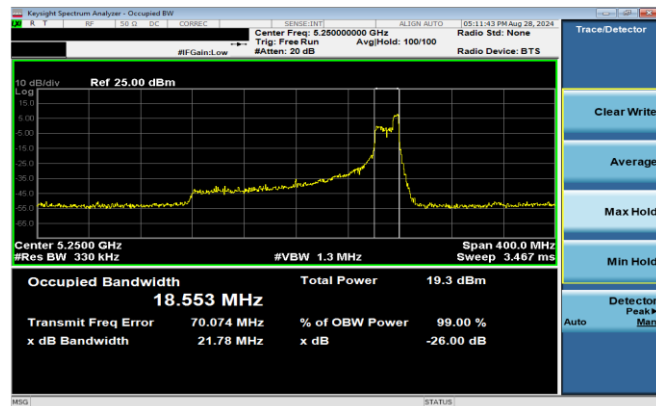
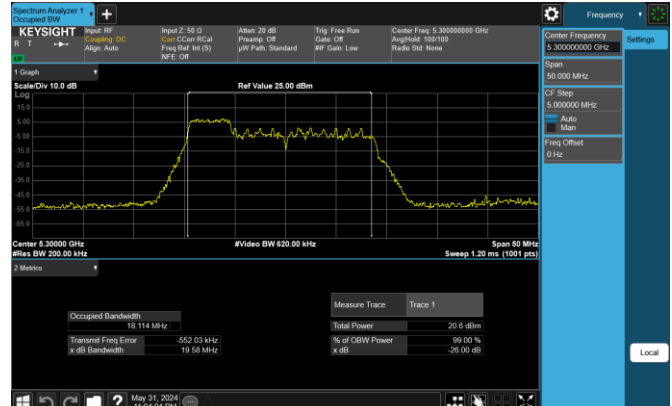
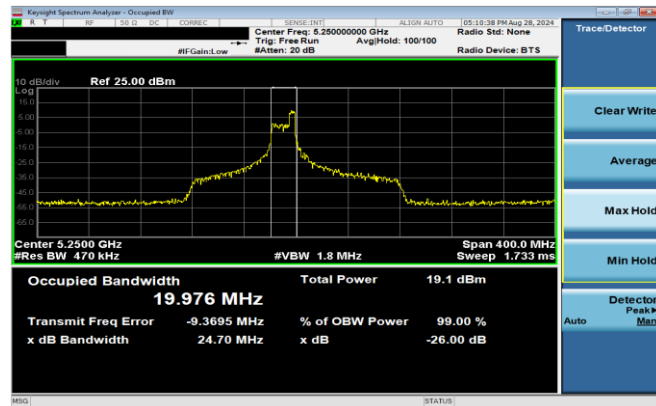
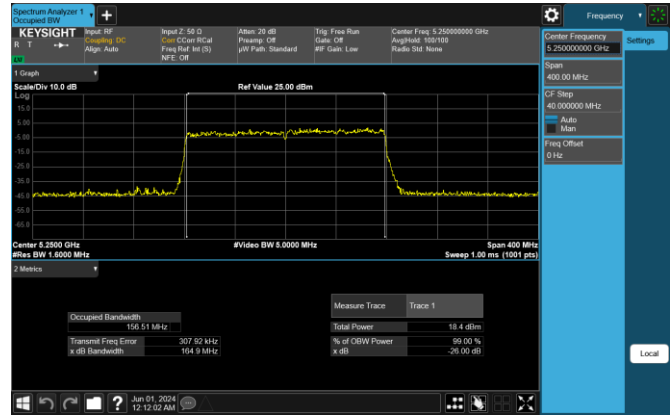
FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 20 of 429


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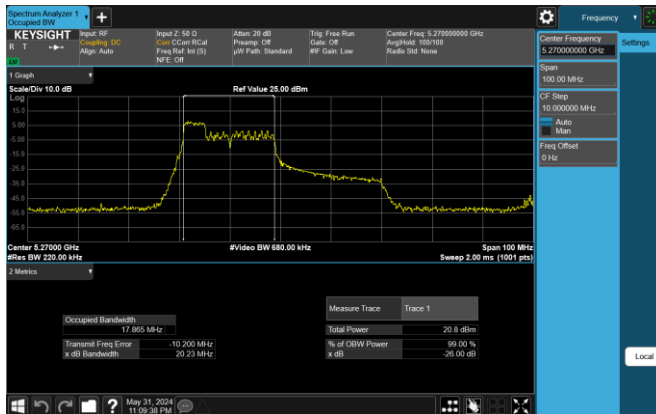
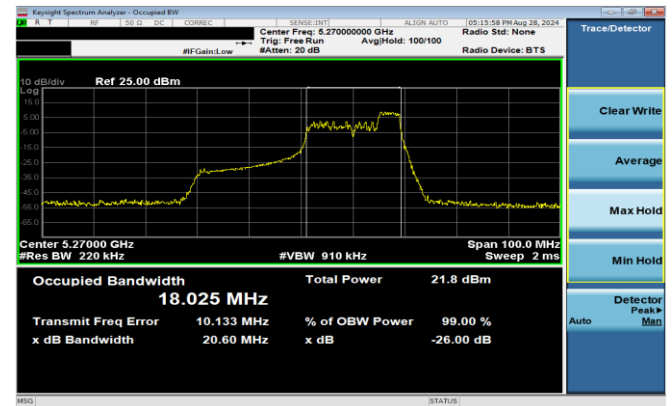
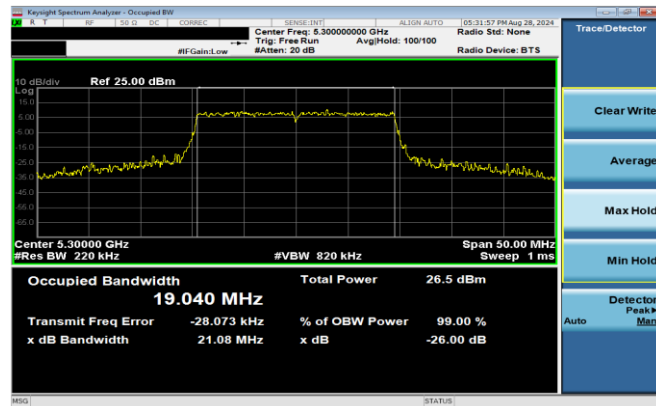
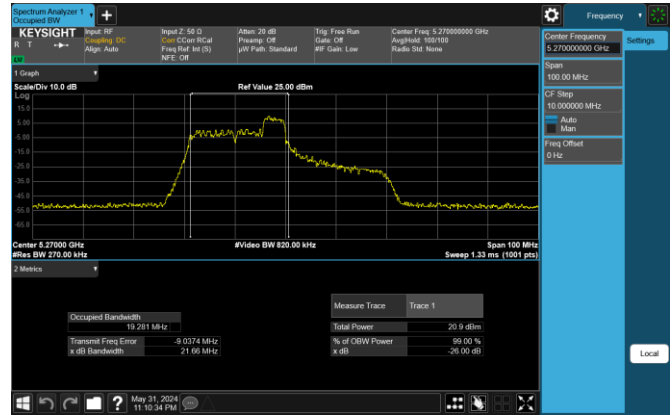
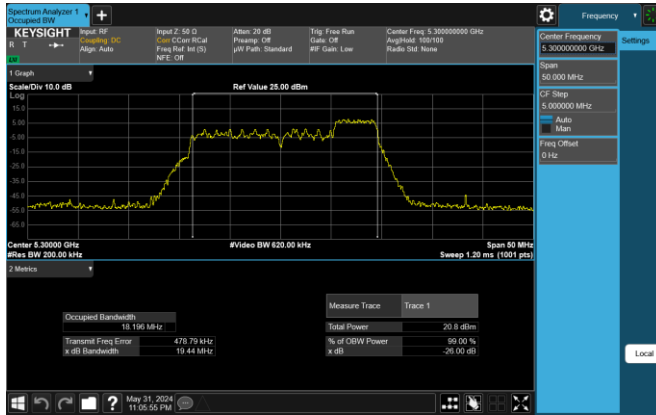
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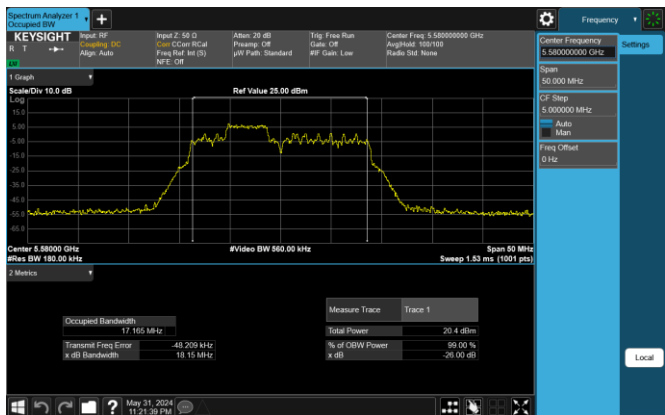
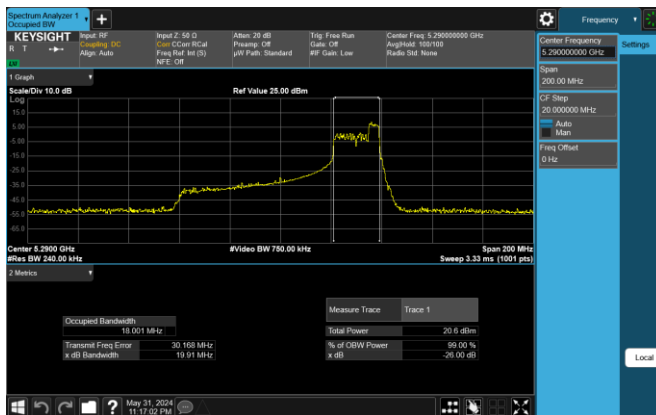
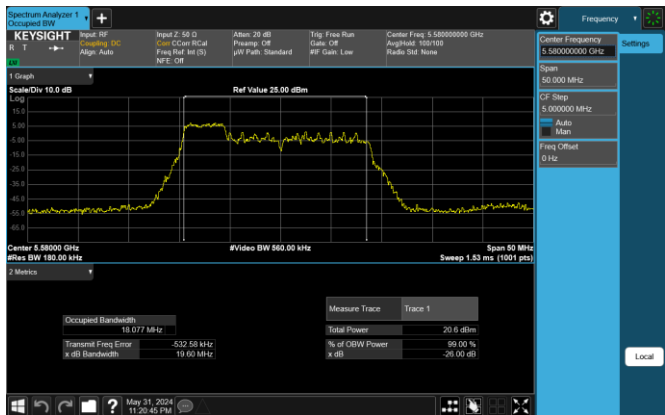
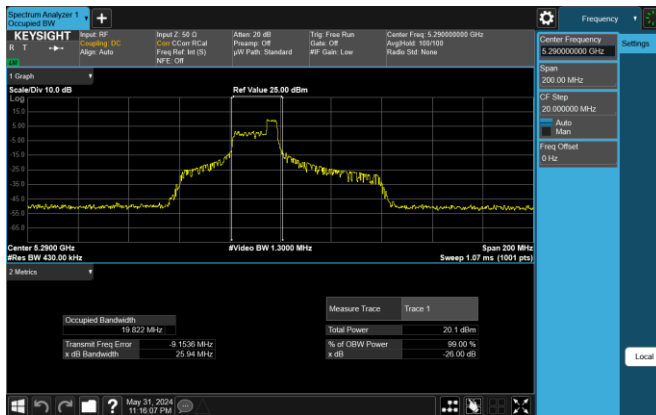
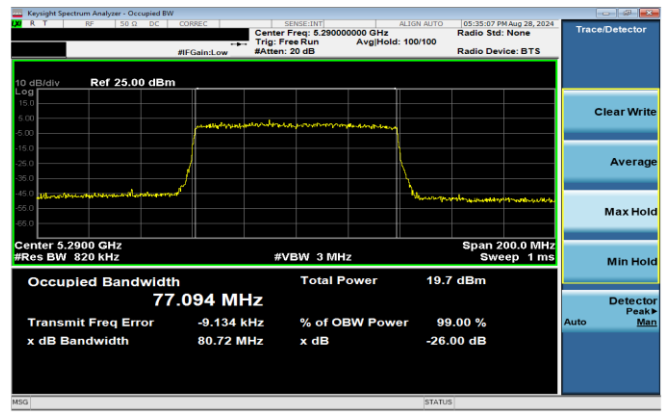
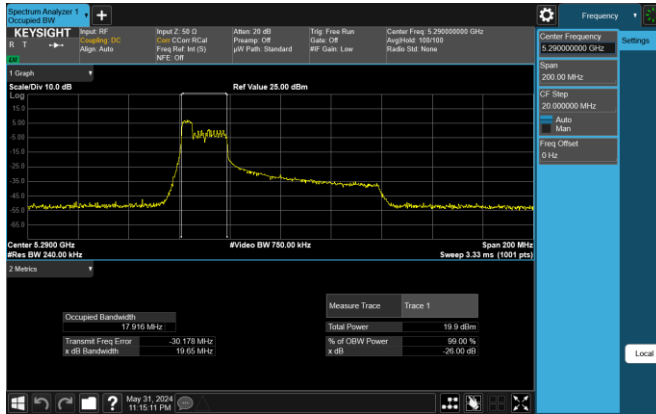
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Test Report S/N: 1C2405200018-23.BCG			Page 21 of 429
Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device		




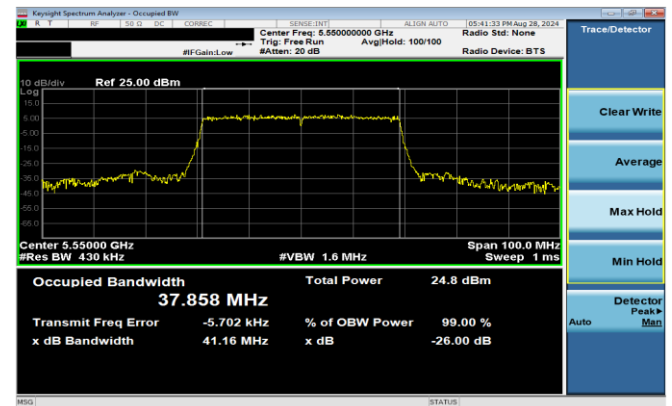
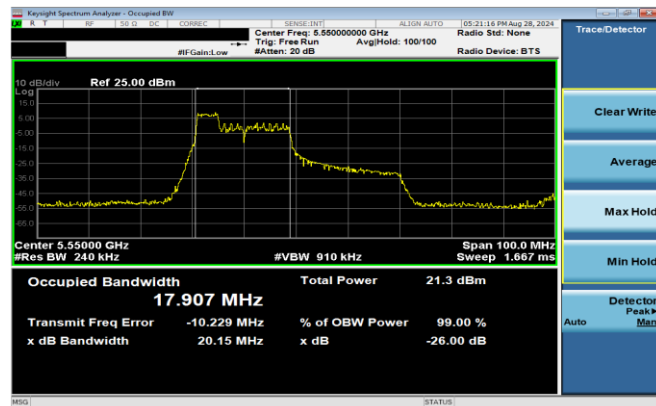
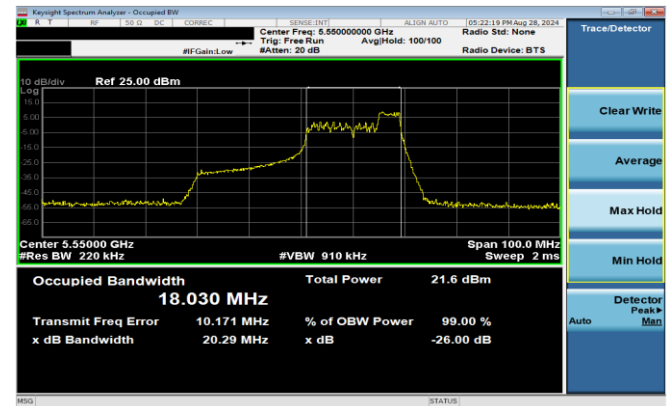
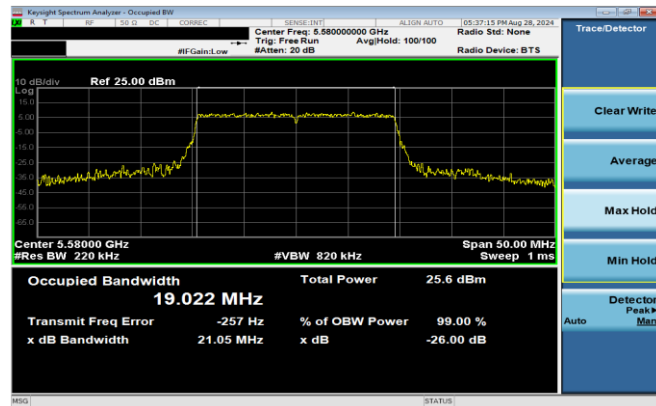
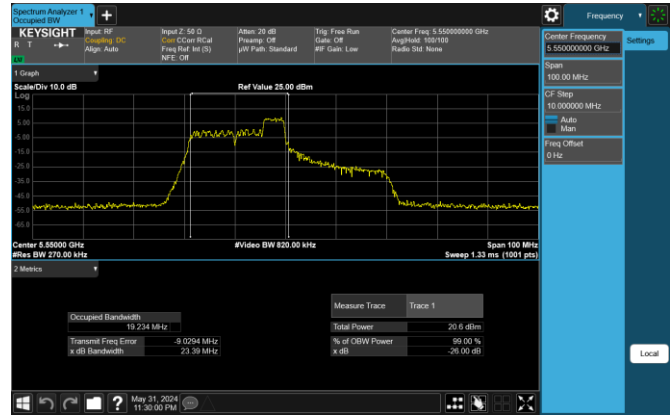
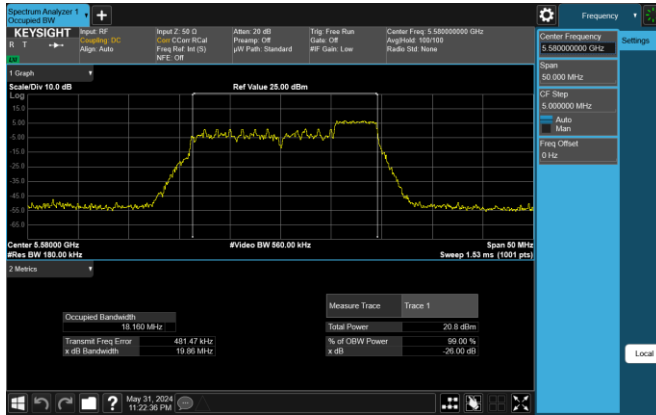
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Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 22 of 429	




FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 23 of 429



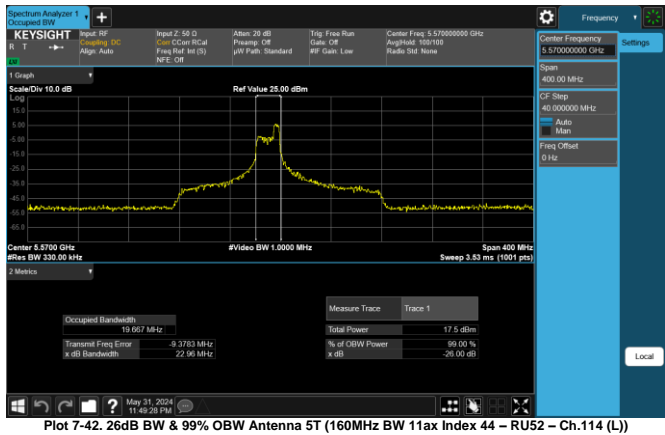
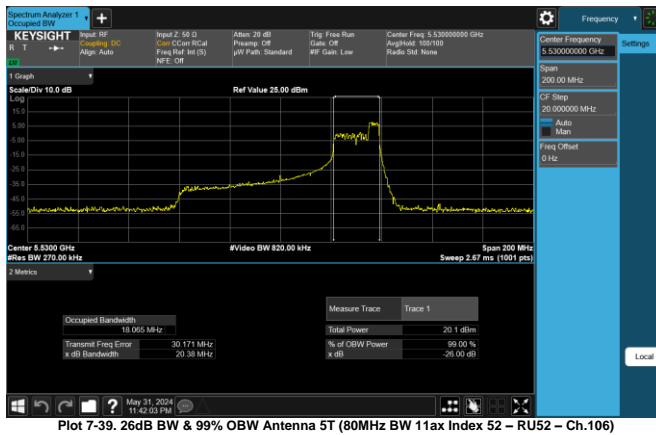
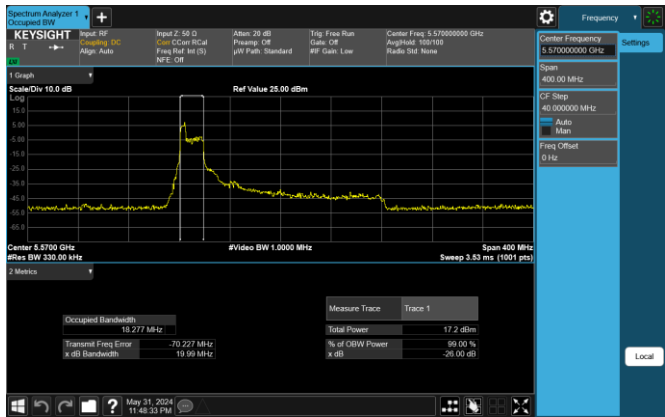
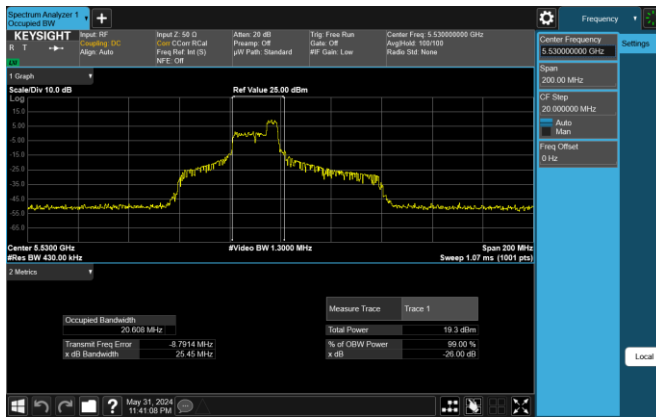
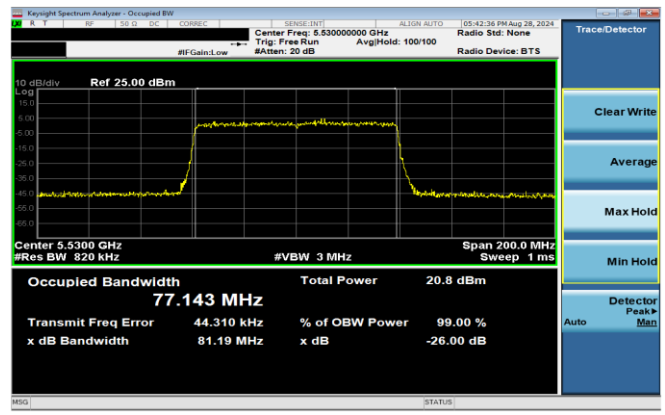
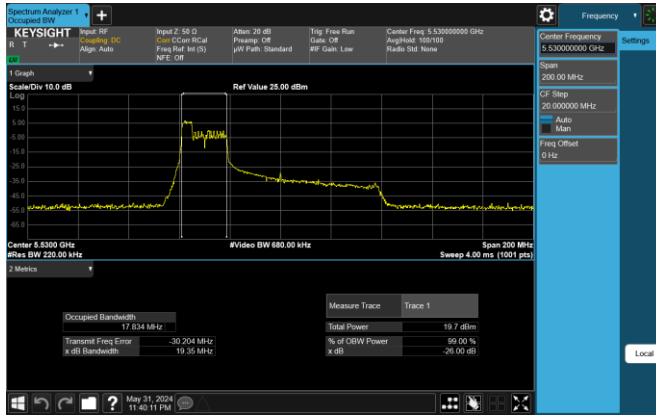
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Test Report S/N: 1C2405200018-23.BCG			
Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 24 of 429	




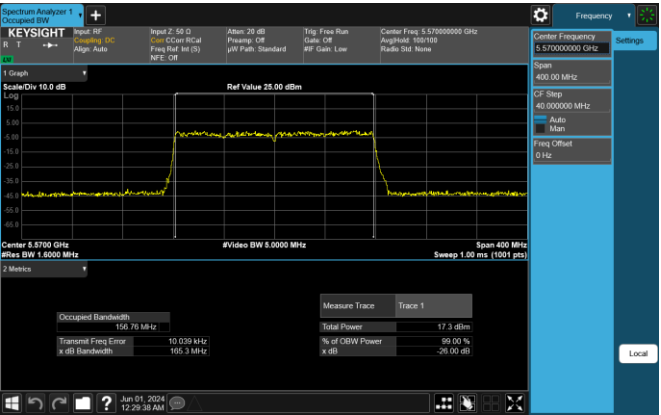
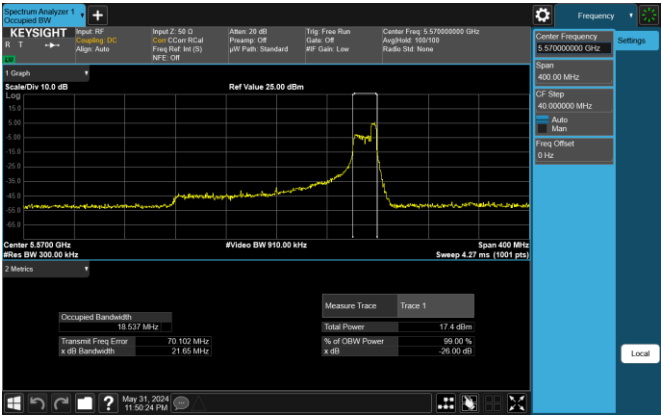
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FCC ID: BCGA2995 IC: 579C-A2995		element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG		Test Dates: 5/20/2024 - 8/28/2024		EUT Type: Tablet Device	Page 27 of 429


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7.2.2 Antenna 3b 26dB & 99% Bandwidth Measurements

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.21	19.53
				26	4	12.5/14.7 (MCS11)	17.14	18.12
				26	8	12.5/14.7 (MCS11)	18.28	19.43
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.20	19.54
				26	4	12.5/14.7 (MCS11)	17.11	18.06
				26	8	12.5/14.7 (MCS11)	18.28	19.41
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.18	19.45
				26	4	12.5/14.7 (MCS11)	16.78	18.03
				26	8	12.5/14.7 (MCS11)	18.33	19.48
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.08	19.80
				26	8	12.5/14.7 (MCS11)	19.71	21.77
				26	17	12.5/14.7 (MCS11)	18.08	19.60
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.01	19.55
				26	8	12.5/14.7 (MCS11)	19.43	21.19
				26	17	12.5/14.7 (MCS11)	18.13	19.74
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	18.07	19.42
				26	18	12.5/14.7 (MCS11)	37.22	38.46
				26	36	12.5/14.7 (MCS11)	18.15	19.38

Table 7-5. Conducted Bandwidth Measurements Antenna 3b (RU26)


FCC ID: BCGA2995 IC: 579C-A2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 28 of 429

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	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1/2A	5250	50 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	18.31	20.72
		50 (U)		52	52	25/29.4 (MCS11)	19.79	24.76
				52	52	25/29.4 (MCS11)	18.54	21.49
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	18.11	19.66
				52	38	25/29.4 (MCS11)	17.15	18.43
				52	40	25/29.4 (MCS11)	18.24	19.58
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	18.17	19.65
				52	38	25/29.4 (MCS11)	17.17	18.43
				52	40	25/29.4 (MCS11)	18.22	19.58
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.12	19.50
				52	38	25/29.4 (MCS11)	17.19	18.29
				52	40	25/29.4 (MCS11)	18.21	19.91
	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	17.91	19.97
				52	40	25/29.4 (MCS11)	19.06	22.73
				52	44	25/29.4 (MCS11)	18.04	20.28
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	17.87	20.11
				52	40	25/29.4 (MCS11)	19.42	22.77
				52	44	25/29.4 (MCS11)	18.07	20.21
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	17.91	19.54
				52	44	25/29.4 (MCS11)	20.56	22.91
				52	52	25/29.4 (MCS11)	18.00	20.20
Band 2C	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	18.17	19.69
				52	38	25/29.4 (MCS11)	17.14	18.40
				52	40	25/29.4 (MCS11)	18.19	19.58
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	18.11	19.55
				52	38	25/29.4 (MCS11)	17.14	18.17
				52	40	25/29.4 (MCS11)	18.27	20.06
	5600*	120	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14	19.65
				52	38	25/29.4 (MCS11)	17.09	18.34
				52	40	25/29.4 (MCS11)	18.23	19.77
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	18.12	19.55
				52	38	25/29.4 (MCS11)	17.14	18.40
				52	40	25/29.4 (MCS11)	18.20	19.78
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	17.94	20.22
				52	40	25/29.4 (MCS11)	19.43	22.51
				52	44	25/29.4 (MCS11)	18.00	20.28
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	17.95	19.92
				52	40	25/29.4 (MCS11)	19.41	23.33
				52	44	25/29.4 (MCS11)	18.06	20.42
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	17.87	20.01
				52	40	25/29.4 (MCS11)	19.28	22.02
				52	44	25/29.4 (MCS11)	18.08	20.42
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	17.87	19.45
				52	44	25/29.4 (MCS11)	20.64	26.62
				52	52	25/29.4 (MCS11)	18.12	20.26
5610*	122	ax (80MHz)	52	37	25/29.4 (MCS11)	17.98	19.58	
			52	44	25/29.4 (MCS11)	20.35	26.27	
			52	52	25/29.4 (MCS11)	18.01	20.15	
5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	17.93	19.81	
			52	44	25/29.4 (MCS11)	20.24	24.60	
			52	52	25/29.4 (MCS11)	18.10	20.62	
5570*	114 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	18.30	20.28	
	114 (U)		52	52	25/29.4 (MCS11)	20.10	23.60	
			52	52	25/29.4 (MCS11)	18.37	21.70	

Table 7-6. Conducted Bandwidth Measurements Antenna 3b (RU52)

*TDWR channel is not supported for ISED (denoted by a * next to the frequency)


FCC ID: BCGA2995 IC: 579C-A2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 29 of 429

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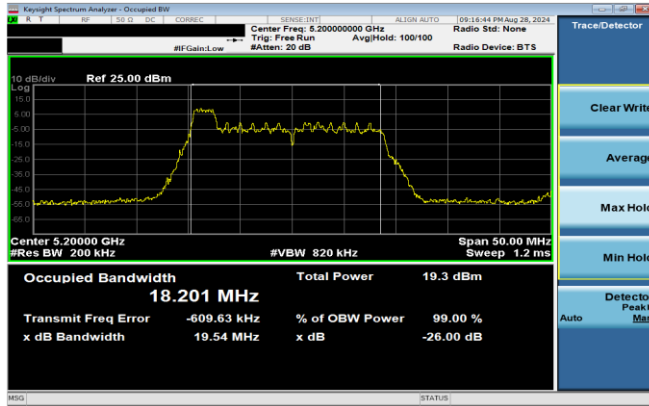
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 26dB Bandwidth [MHz]
Band 1	5180	36	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.00	21.02
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.27
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	20.99
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.92	41.50
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.15	41.64
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.00	80.76
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.59	163.90
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.99	21.02
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.24
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.96	20.98
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.96	41.46
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.85	41.00
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.13	81.24
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.99	21.15
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	21.01
	5600*	120	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.03	21.02
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.02	21.14
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.00	41.31
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.89	41.42
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.17	51.04
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.09	81.40
	5610*	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.03	81.21
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.31	97.69
	5570*	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	156.60	164.58

Table 7-7. Conducted Bandwidth Measurements Antenna 3b (Fully- loaded RU)

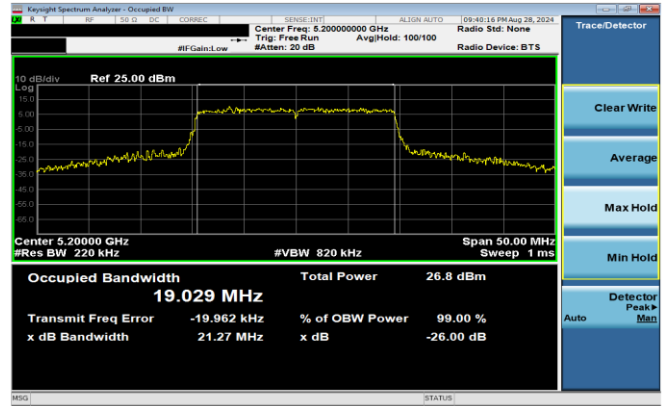
*TDWR channel is not supported for ISD (denoted by a * next to the frequency)

FCC ID: BCGA2995 IC: 579C-A2995	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 30 of 429

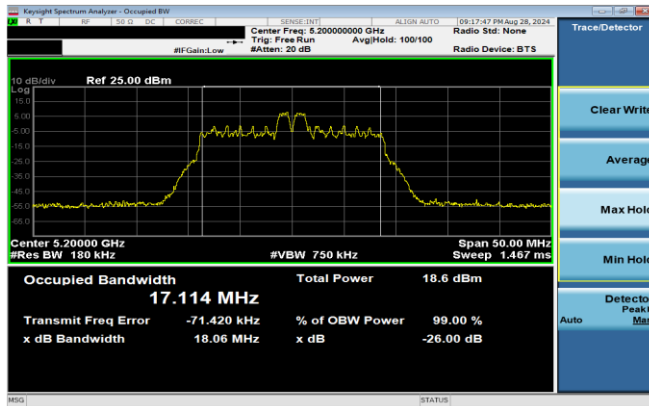
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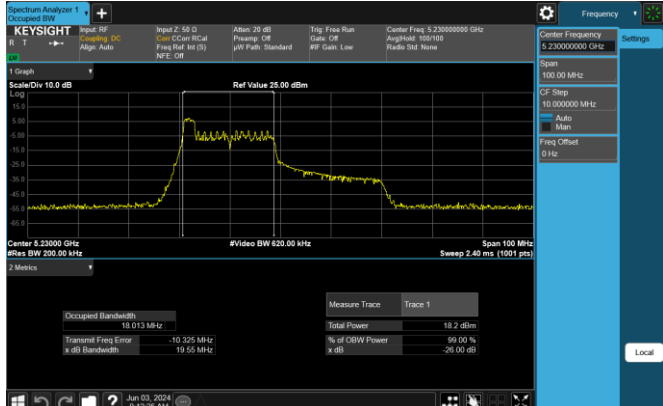
Plot 7-45. 26dB BW & 99% OBW Antenna 3b (20MHz BW 11ax Index 0 – RU26 – Ch.40)



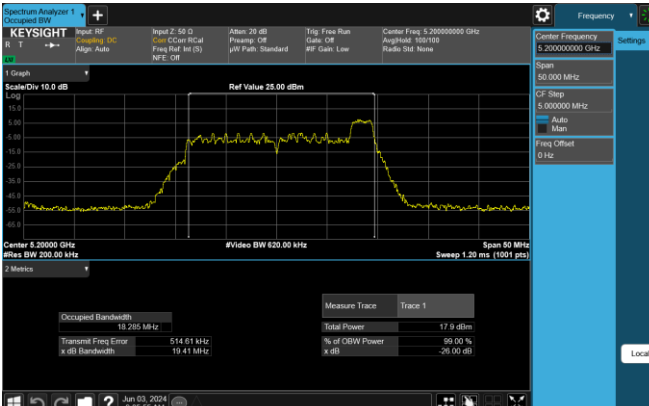
Plot 7-48. 26dB BW & 99% OBW Antenna 3b (20MHz BW 11ax – RU242 – Ch.40)



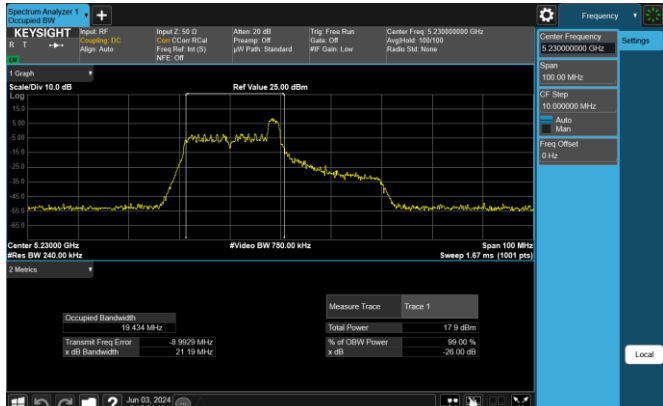
Plot 7-46. 26dB BW & 99% OBW Antenna 3b (20MHz BW 11ax Index 4 – RU26 – Ch.40)




Plot 7-49. 26dB BW & 99% OBW Antenna 3b (40MHz BW 11ax Index 0 – RU26 – Ch.46)

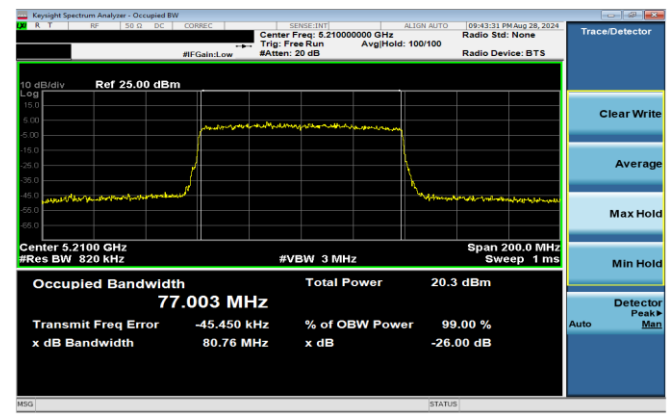
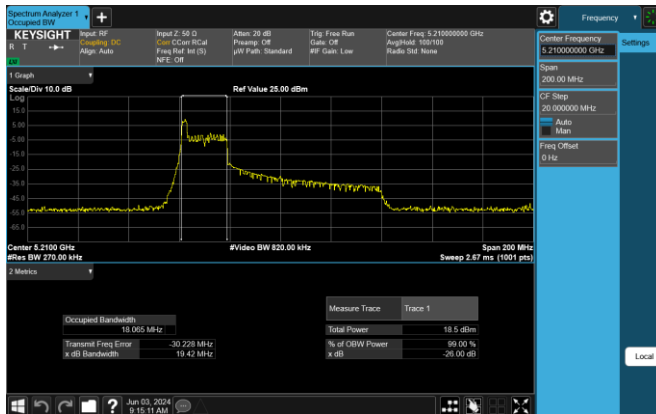
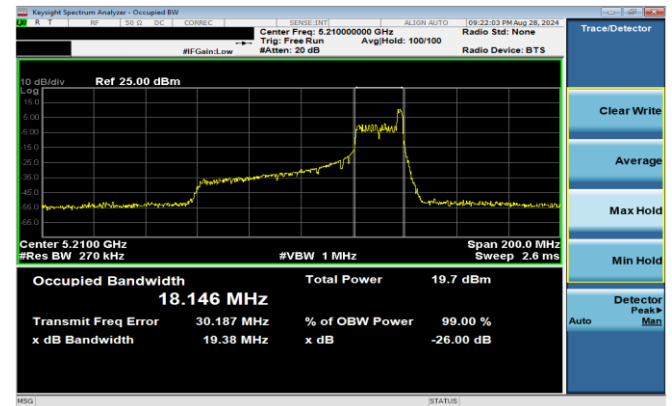
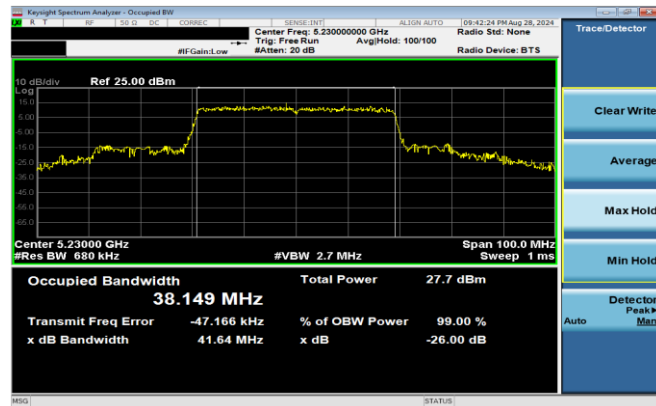
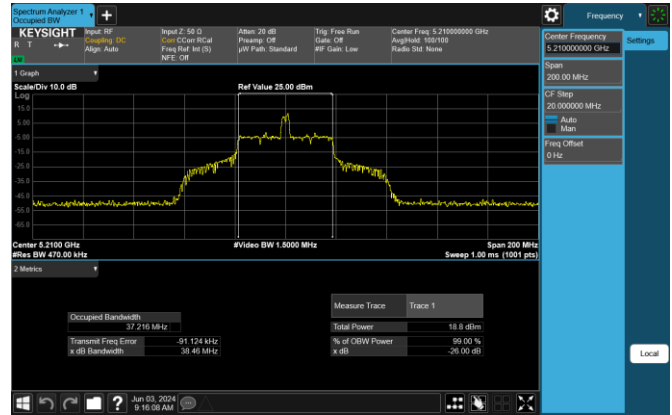
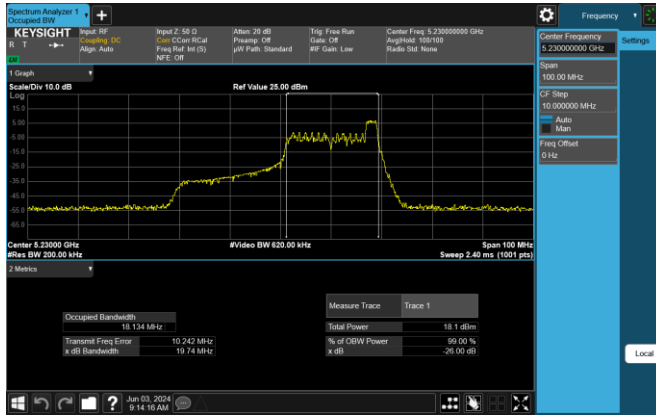



Plot 7-47. 26dB BW & 99% OBW Antenna 3b (20MHz BW 11ax Index 8 – RU26 – Ch.40)

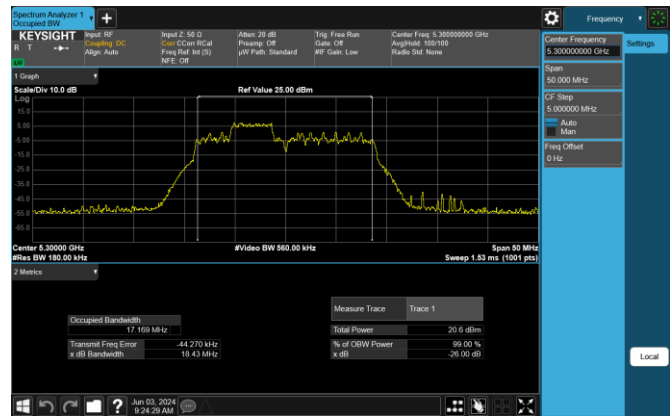
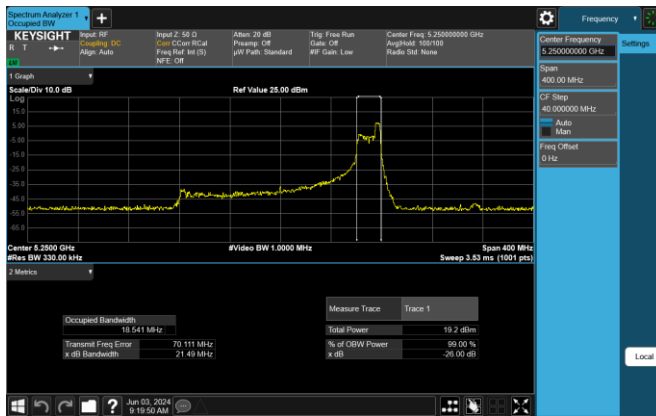
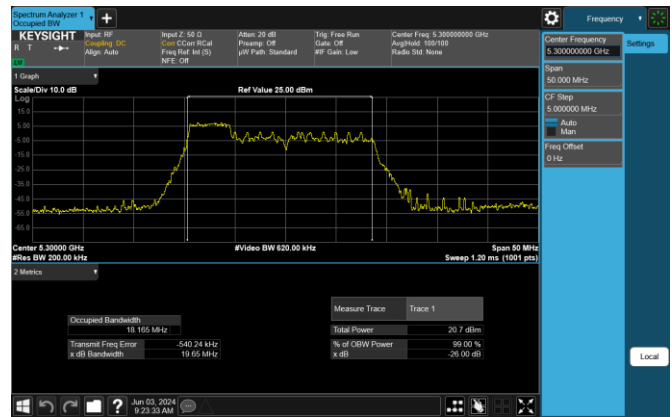
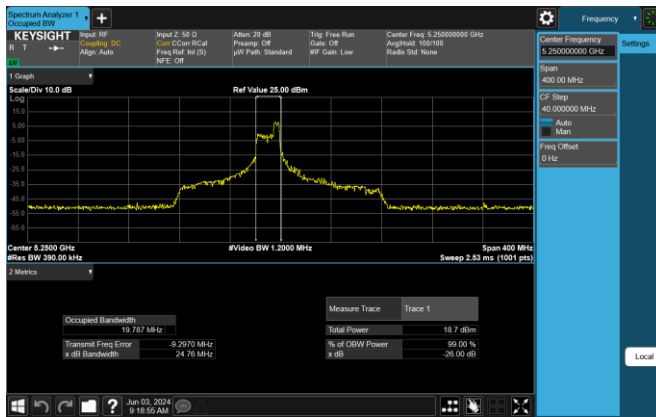
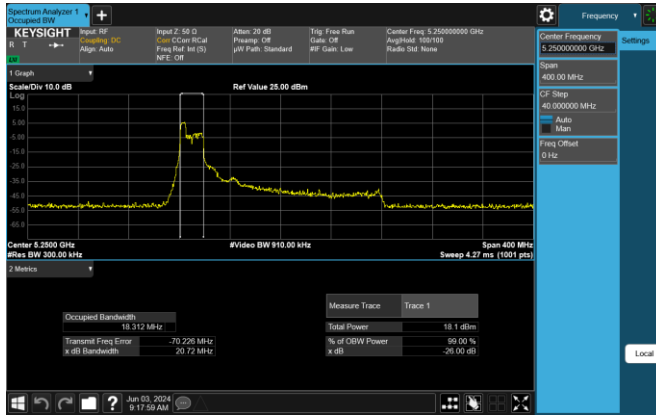



Plot 7-50. 26dB BW & 99% OBW Antenna 3b (40MHz BW 11ax Index 8 – RU26 – Ch.46)

FCC ID: BCGA2995 IC: 579C-A2995	 <div> <div>MEASUREMENT REPORT</div> <div>(CERTIFICATION)</div> </div>	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	<div> <div>Test Dates:</div> <div>5/20/2024 - 8/28/2024</div> </div> <div> <div>EUT Type:</div> <div>Tablet Device</div> </div>	Page 31 of 429



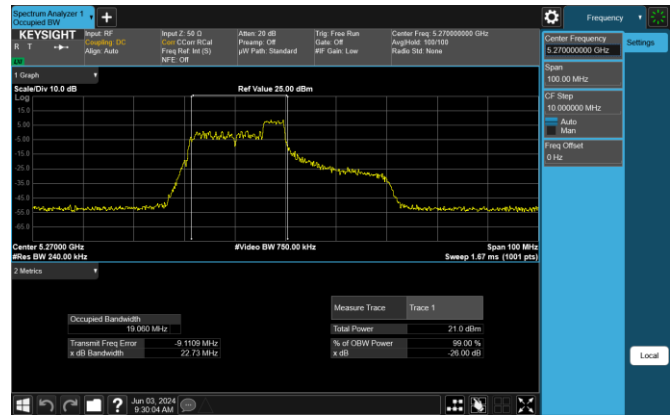
FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 32 of 429



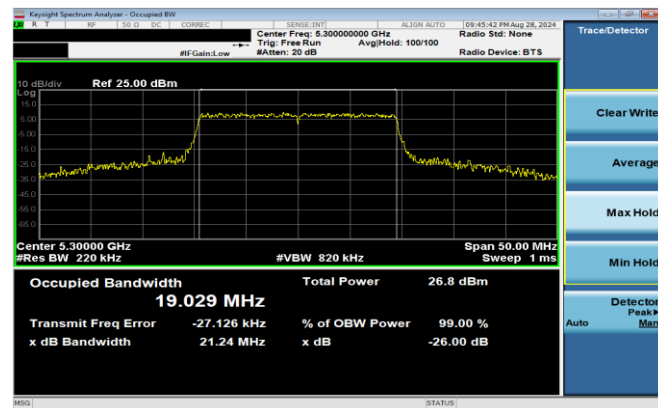
FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device	Page 33 of 429



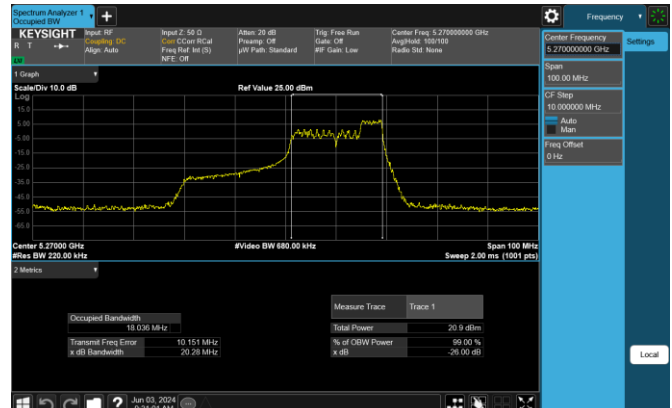
Plot 7-63. 26dB BW & 99% OBW Antenna 3b (20MHz BW 11ax Index 40 – RU52 – Ch.60)



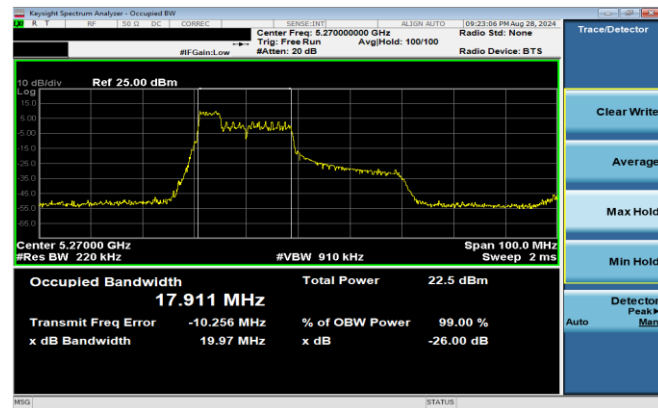
Plot 7-66. 26dB BW & 99% OBW Antenna 3b (40MHz BW 11ax Index 40 – RU52 – Ch.54)



Plot 7-64. 26dB BW & 99% OBW Antenna 3b (20MHz BW 11ax – RU242 – Ch.60)




Plot 7-67. 26dB BW & 99% OBW Antenna 3b (40MHz BW 11ax Index 44 – RU52 – Ch.54)

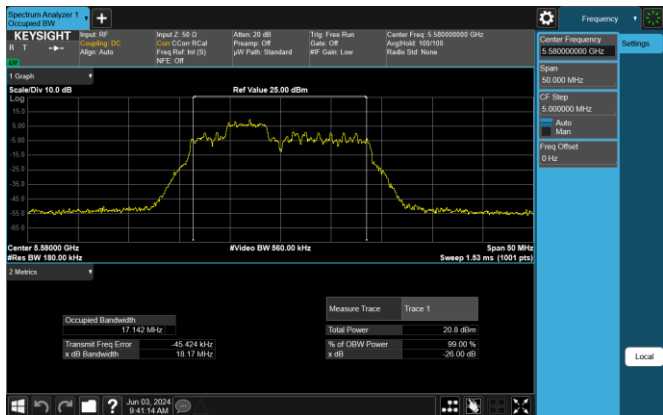
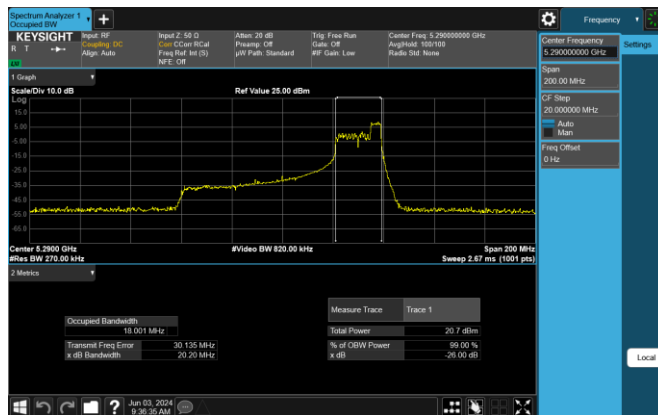
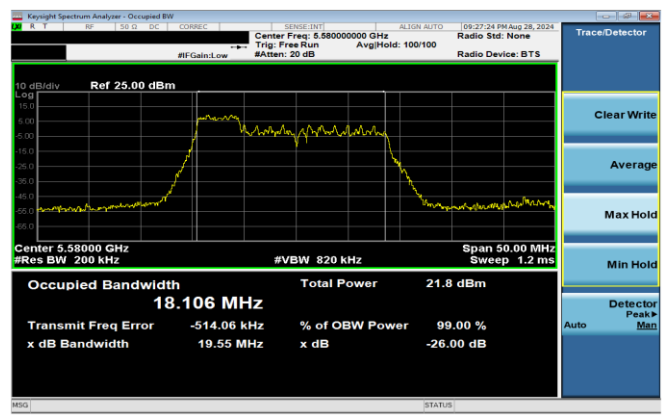
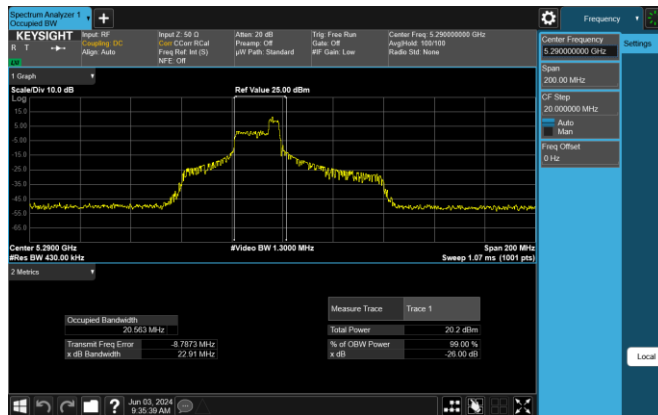
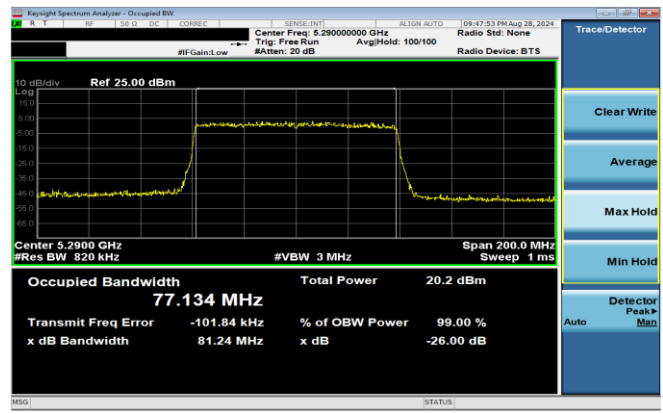
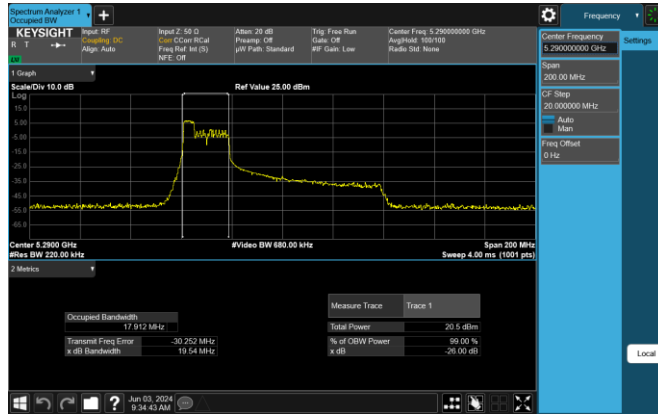



Plot 7-65. 26dB BW & 99% OBW Antenna 3b (40MHz BW 11ax Index 37 – RU52 – Ch.54)



Plot 7-68. 26dB BW & 99% OBW Antenna 3b (40MHz BW 11ax – RU484 – Ch.54)

FCC ID: BCGA2995 IC: 579C-A2995			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200018-23.BCG	Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device		



FCC ID: BCGA2995 IC: 579C-A2995		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Dates: 5/20/2024 - 8/28/2024	EUT Type: Tablet Device		