

Plot 7-69. 26dB BW & 99% OBW Antenna 4a (80MHz BW 11ax Index 37 – RU52 – Ch.58)

Plot 7-72. 26dB BW & 99% OBW Antenna 4a (80MHz BW 11ax – RU996 – Ch.58)

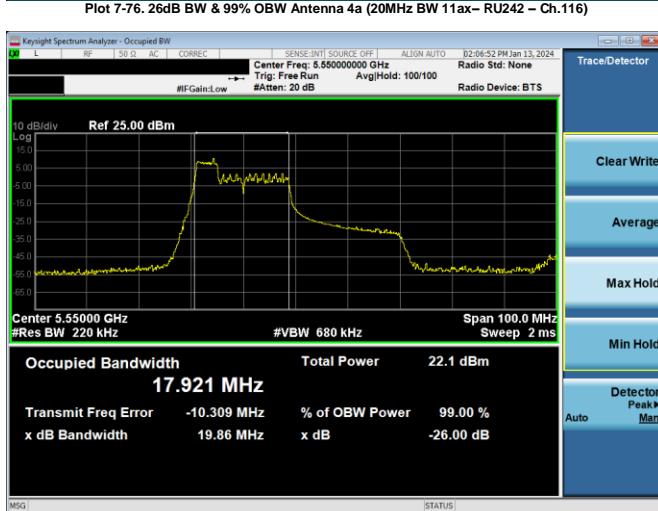
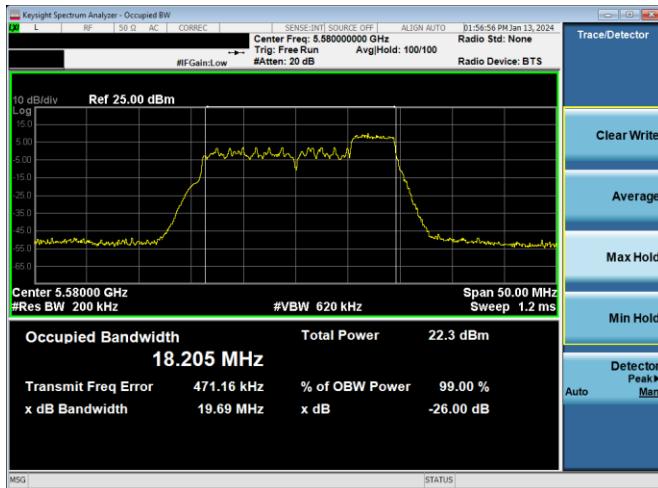
Plot 7-70. 26dB BW & 99% OBW Antenna 4a (80MHz BW 11ax Index 44 – RU52 – Ch.58)

Plot 7-73. 26dB BW & 99% OBW Antenna 4a (20MHz BW 11ax Index 37 – RU52 – Ch.116)

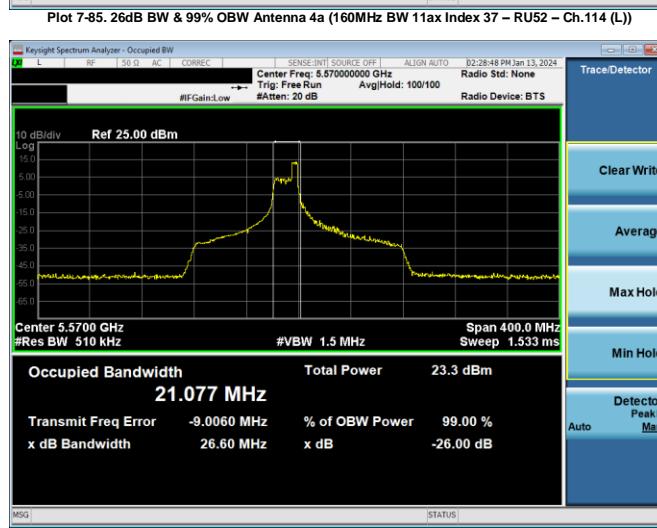
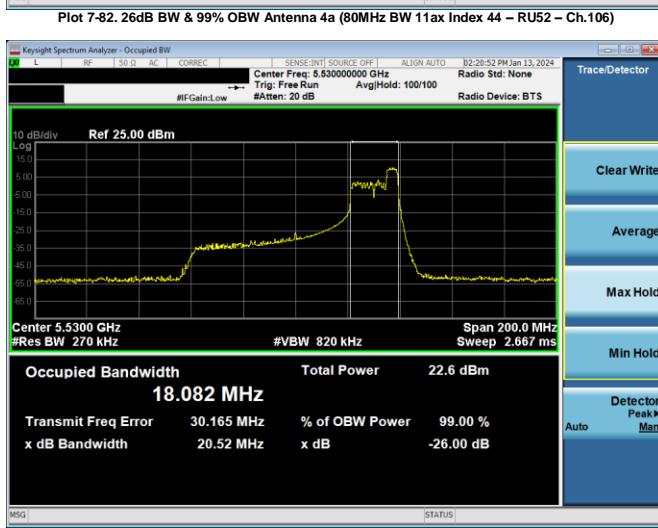
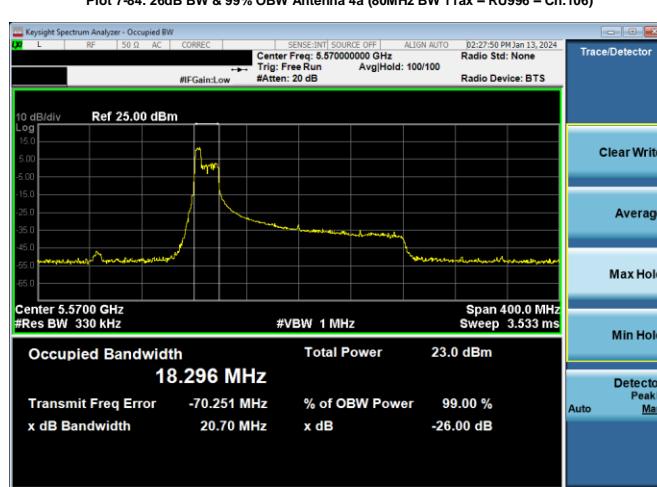
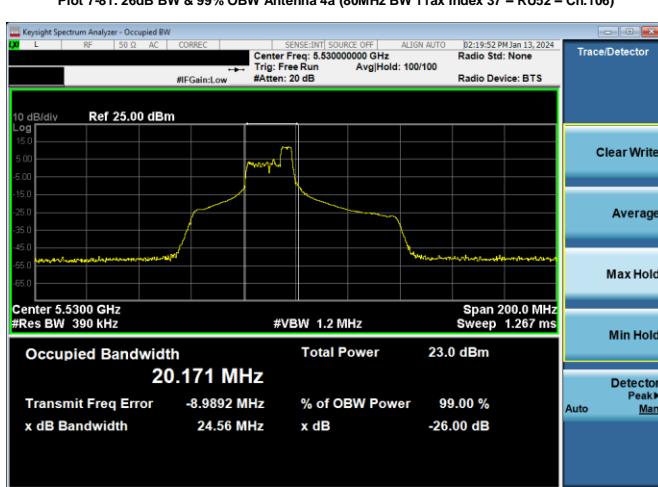
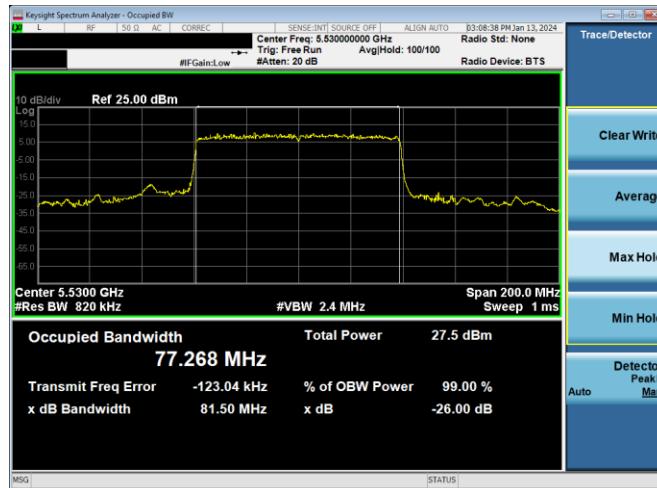
Plot 7-71. 26dB BW & 99% OBW Antenna 4a (80MHz BW 11ax Index 52 – RU52 – Ch.58)

Plot 7-74. 26dB BW & 99% OBW Antenna 4a (20MHz BW 11ax Index 38 – RU52 – Ch.116)

FCC ID: BCGA2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 35 of 450



FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 36 of 450



FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 37 of 450



FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Antenna 2a 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	19.57
				26	4	12.5/14.7 (MCS11)	16.99	18.12
				26	8	12.5/14.7 (MCS11)	18.36	19.58
	5200	40	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.25	19.61
				26	4	12.5/14.7 (MCS11)	17.02	18.11
				26	8	12.5/14.7 (MCS11)	18.31	19.49
	5240	48	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.22	19.54
				26	4	12.5/14.7 (MCS11)	17.03	18.12
				26	8	12.5/14.7 (MCS11)	18.36	19.58
	5190	38	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.01	19.62
				26	8	12.5/14.7 (MCS11)	19.83	22.70
				26	17	12.5/14.7 (MCS11)	18.22	19.93
	5230	46	ax (40MHz)	26	0	12.5/14.7 (MCS11)	18.01	19.53
				26	8	12.5/14.7 (MCS11)	19.99	22.31
				26	17	12.5/14.7 (MCS11)	18.17	19.64
	5210	42	ax (80MHz)	26	0	12.5/14.7 (MCS11)	18.03	19.71
				26	18	12.5/14.7 (MCS11)	37.36	38.96
				26	36	12.5/14.7 (MCS11)	18.25	19.58

Table 7-8. Conducted Bandwidth Measurements Antenna 2a (RU26)

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 39 of 450

	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)	18.30	20.73
				52	52	25/29.4 (MCS11)	20.80	25.34
				52	52	25/29.4 (MCS11)	18.56	22.08
Band 2A	5260	52	ax (20MHz)	52	37	25/29.4 (MCS11)	18.13	19.68
				52	38	25/29.4 (MCS11)	17.09	18.43
				52	40	25/29.4 (MCS11)	18.22	19.82
	5300	60	ax (20MHz)	52	37	25/29.4 (MCS11)	18.16	19.68
				52	38	25/29.4 (MCS11)	17.08	18.37
				52	40	25/29.4 (MCS11)	18.19	19.54
	5320	64	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14	19.61
				52	38	25/29.4 (MCS11)	17.10	18.30
				52	40	25/29.4 (MCS11)	18.20	19.80
Band 2C	5270	54	ax (40MHz)	52	37	25/29.4 (MCS11)	17.91	19.84
				52	40	25/29.4 (MCS11)	19.59	23.39
				52	44	25/29.4 (MCS11)	18.11	20.40
	5310	62	ax (40MHz)	52	37	25/29.4 (MCS11)	17.93	19.86
				52	40	25/29.4 (MCS11)	19.64	23.56
				52	44	25/29.4 (MCS11)	18.07	20.25
	5290	58	ax (80MHz)	52	37	25/29.4 (MCS11)	17.92	19.61
				52	44	25/29.4 (MCS11)	20.29	23.58
				52	52	25/29.4 (MCS11)	18.04	20.19
	5500	100	ax (20MHz)	52	37	25/29.4 (MCS11)	18.11	19.81
				52	38	25/29.4 (MCS11)	17.08	18.29
				52	40	25/29.4 (MCS11)	18.25	19.87
	5580	116	ax (20MHz)	52	37	25/29.4 (MCS11)	18.15	19.73
				52	38	25/29.4 (MCS11)	17.11	18.47
				52	40	25/29.4 (MCS11)	18.21	19.86
	5720	144	ax (20MHz)	52	37	25/29.4 (MCS11)	18.14	19.76
				52	38	25/29.4 (MCS11)	17.07	18.27
				52	40	25/29.4 (MCS11)	18.22	19.87
	5510	102	ax (40MHz)	52	37	25/29.4 (MCS11)	17.89	20.08
				52	40	25/29.4 (MCS11)	19.76	23.76
				52	44	25/29.4 (MCS11)	18.05	20.54
	5550	110	ax (40MHz)	52	37	25/29.4 (MCS11)	17.93	19.95
				52	40	25/29.4 (MCS11)	19.81	24.14
				52	44	25/29.4 (MCS11)	18.15	20.70
	5710	142	ax (40MHz)	52	37	25/29.4 (MCS11)	17.95	20.10
				52	40	25/29.4 (MCS11)	19.90	24.01
				52	44	25/29.4 (MCS11)	18.08	20.44
	5530	106	ax (80MHz)	52	37	25/29.4 (MCS11)	17.93	20.00
				52	44	25/29.4 (MCS11)	20.08	23.67
				52	52	25/29.4 (MCS11)	18.09	20.64
	5610*	122	ax (80MHz)	52	37	25/29.4 (MCS11)	17.95	19.83
				52	44	25/29.4 (MCS11)	20.17	24.20
				52	52	25/29.4 (MCS11)	18.07	20.37
	5690	138	ax (80MHz)	52	37	25/29.4 (MCS11)	17.93	19.65
				52	44	25/29.4 (MCS11)	20.09	23.23
				52	52	25/29.4 (MCS11)	18.06	20.59
	5570*	114 (L)	ax (160MHz)	52	37	25/29.4 (MCS11)	18.53	20.69
				52	52	25/29.4 (MCS11)	20.82	25.52
		114 (U)		52	52	25/29.4 (MCS11)	18.70	22.39

Table 7-9. Conducted Bandwidth Measurements Antenna 2a (RU52)

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

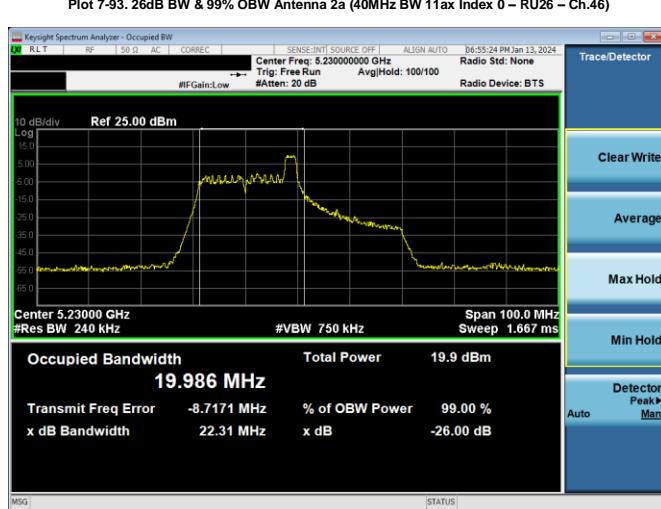
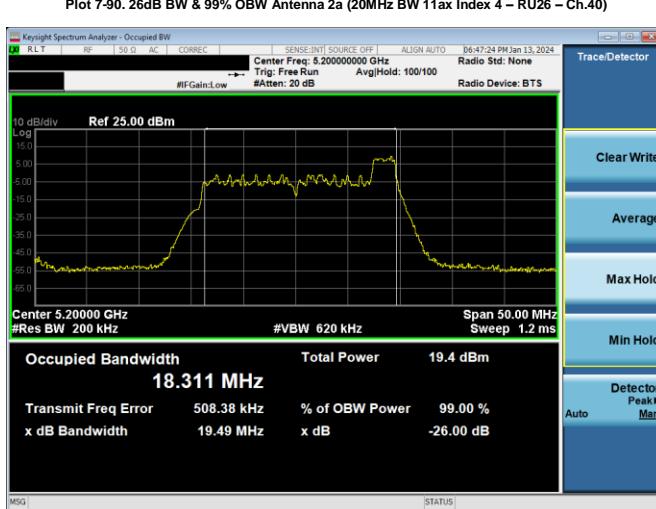
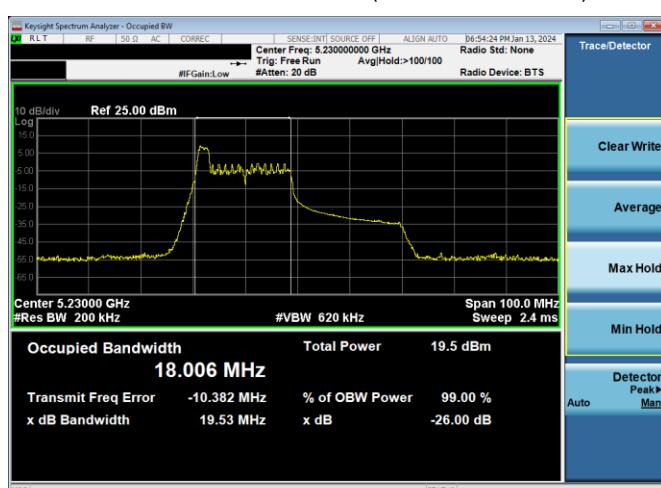
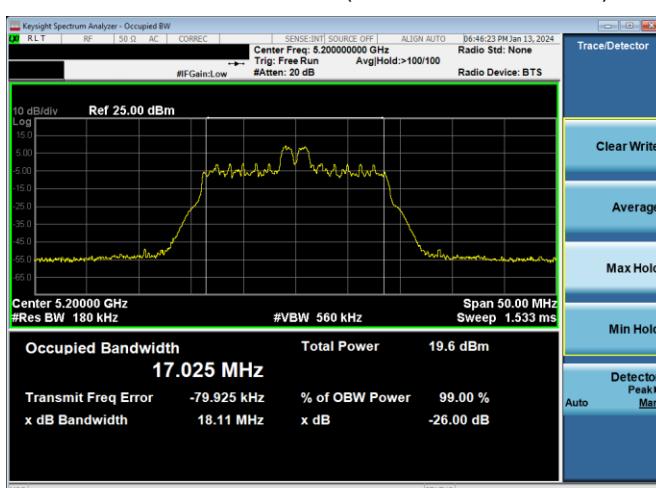
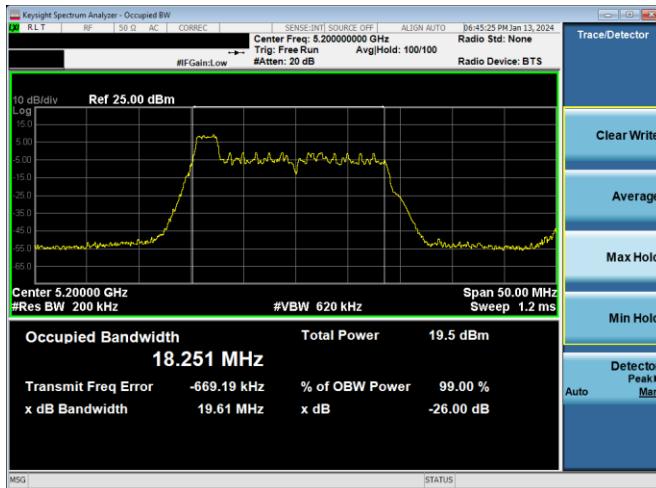
FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 40 of 450

	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)	19.10	21.20
	5200	40	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.09	21.37
	5240	48	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.09	21.49
	5190	38	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.08	41.49
	5230	46	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.11	41.69
	5210	42	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.35	98.09
Band 1/2A	5250	50	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	159.88	305.92
Band 2A	5260	52	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.11	21.28
	5300	60	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.08	21.61
	5320	64	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.08	21.35
	5270	54	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.18	50.59
	5310	62	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.07	41.64
	5290	58	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.35	98.19
Band 2C	5500	100	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.06	21.14
	5580	116	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.05	21.13
	5720	144	ax (20MHz)	242	61	121.9/143.4 (MCS11)	19.08	21.33
	5510	102	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.06	41.35
	5550	110	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.99	42.22
	5710	142	ax (40MHz)	484	65	243.8/286.8 (MCS11)	38.04	41.44
	5530	106	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.30	98.56
	5610*	122	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.30	81.78
	5690	138	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.24	81.91
	5570*	114	ax (160MHz)	996x2	68	1020.8/1201 (MCS11)	159.15	306.64

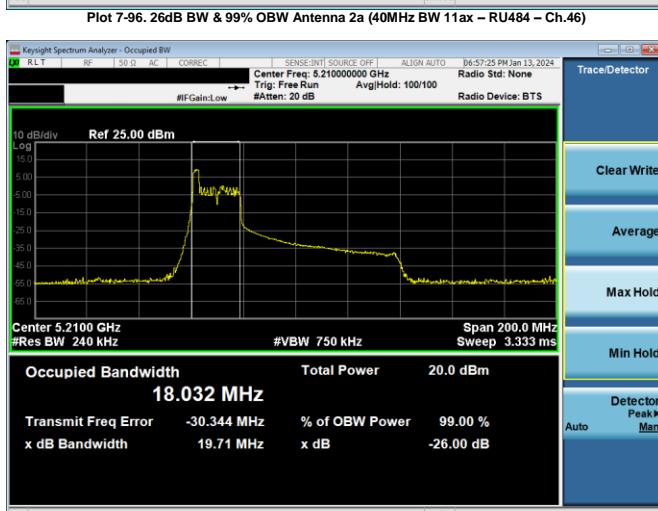
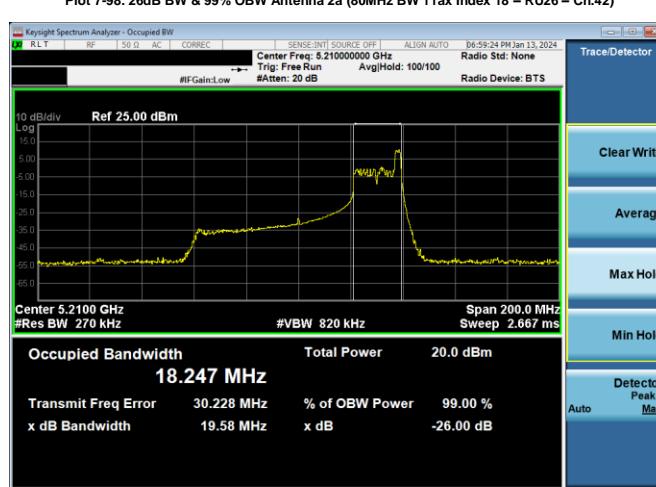
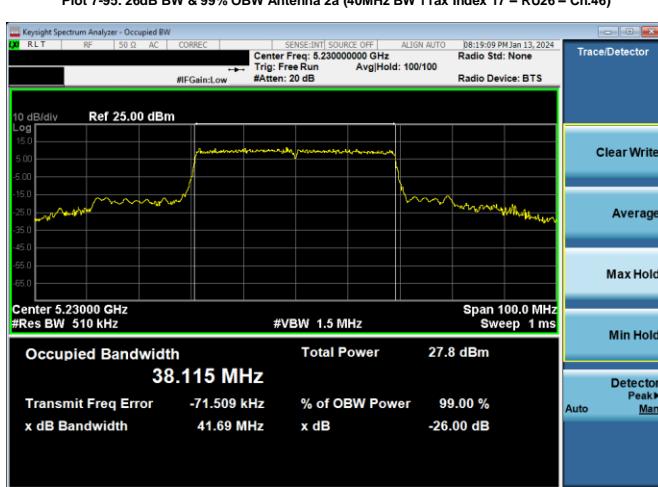
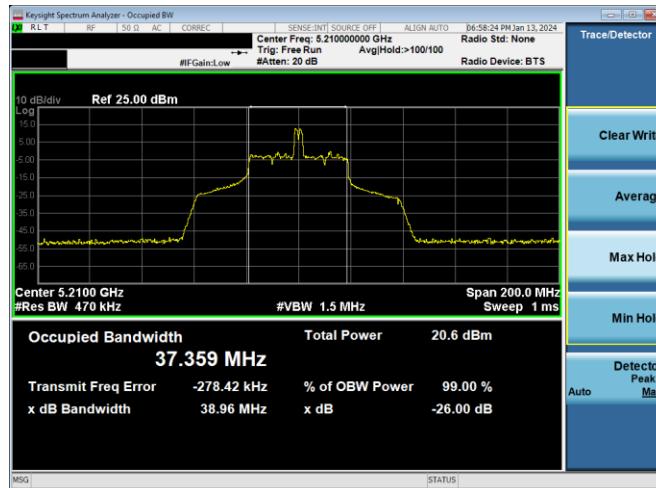
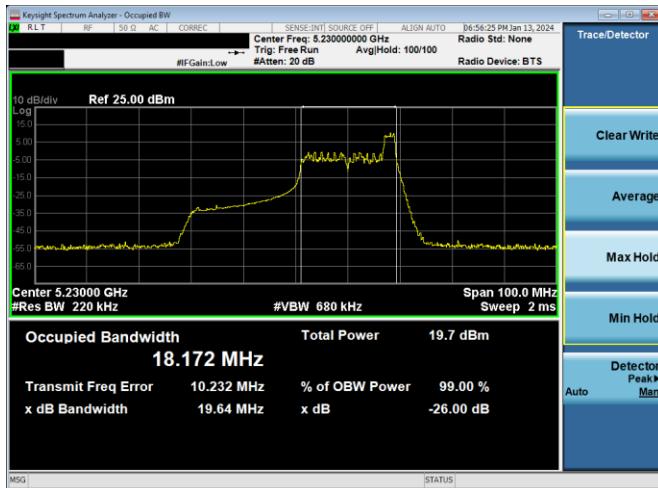
Table 7-10. Conducted Bandwidth Measurements Antenna 2a (Fully- loaded RU)

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

FCC ID: BCGA2837 IC: 579C-A2837	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 41 of 450



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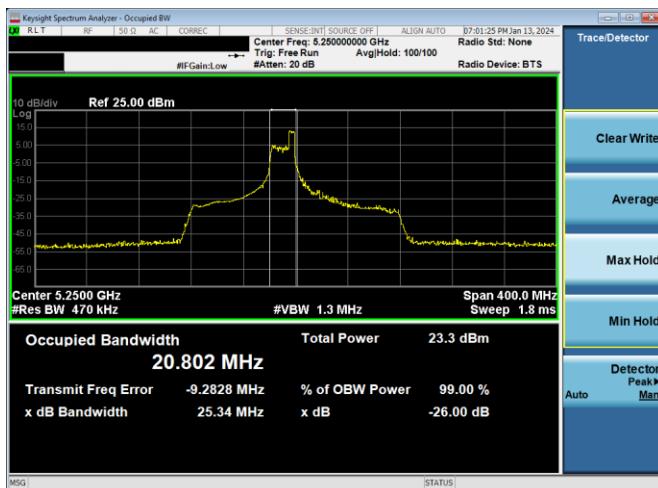
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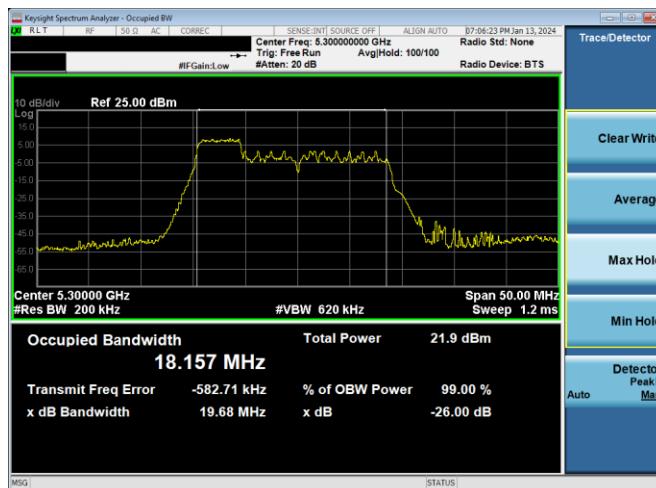
Plot 7-101. 26dB BW & 99% OBW Antenna 2a (160MHz BW 11ax Index 37 – RU52 – Ch.50 (L))



Plot 7-104. 26dB BW & 99% OBW Antenna 2a (160MHz BW 11ax – RU996x2 – Ch.50)



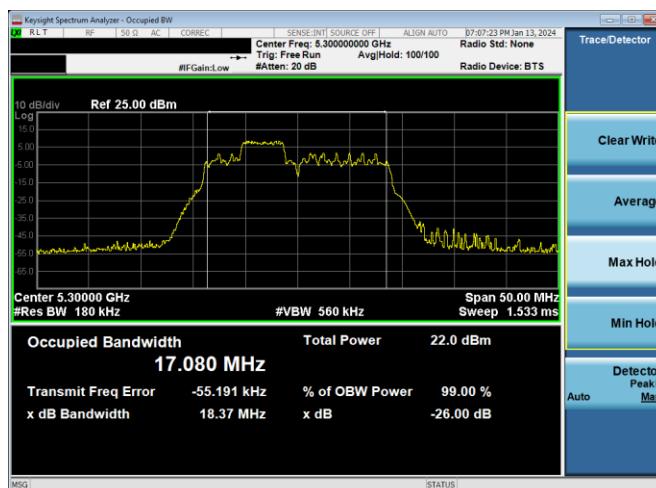
Plot 7-102. 26dB BW & 99% OBW Antenna 2a (160MHz BW 11ax Index 52 – RU52 – Ch.50 (L))



Plot 7-105. 26dB BW & 99% OBW Antenna 2a (20MHz BW 11ax Index 37 – RU52 – Ch.60)

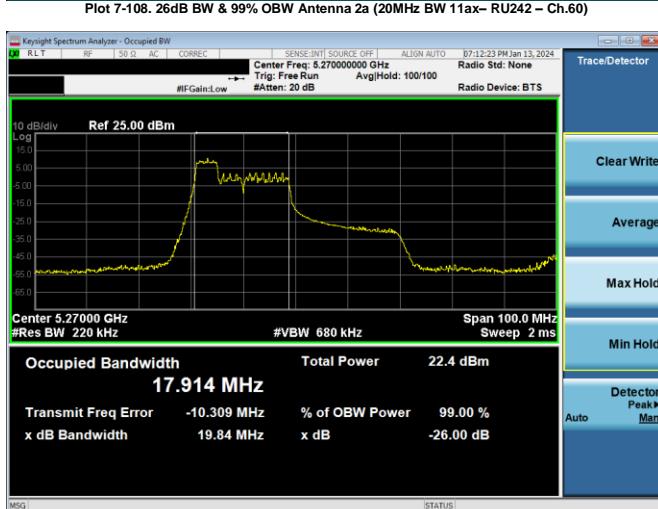
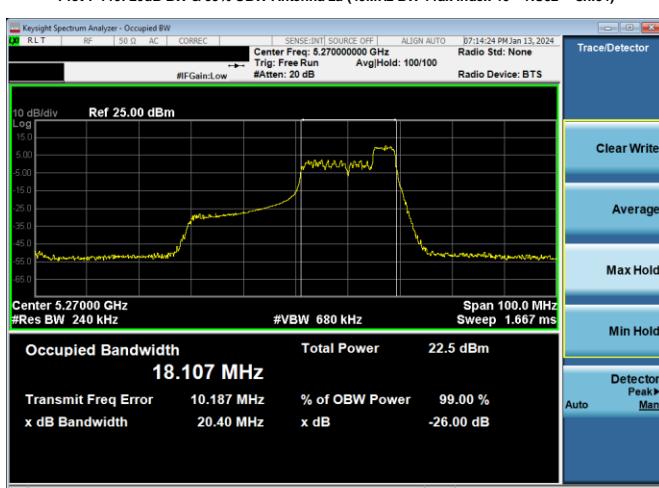
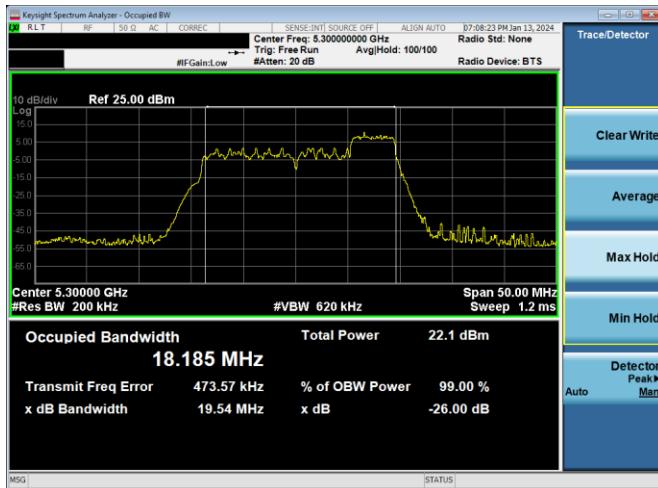


Plot 7-103. 26dB BW & 99% OBW Antenna 2a (160MHz BW 11ax Index 52 – RU52 – Ch.50 (U))

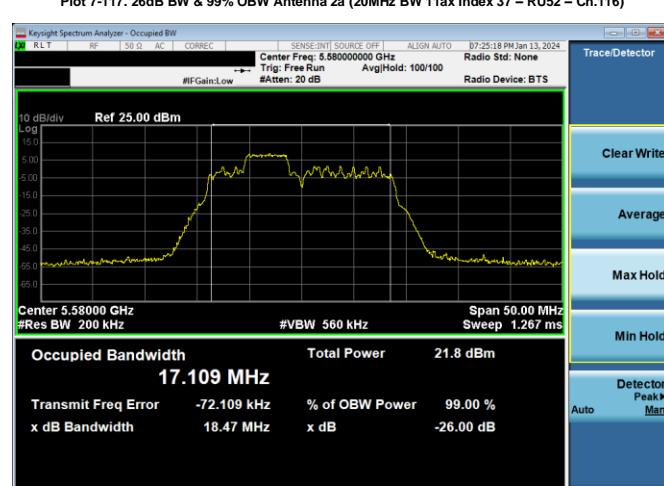
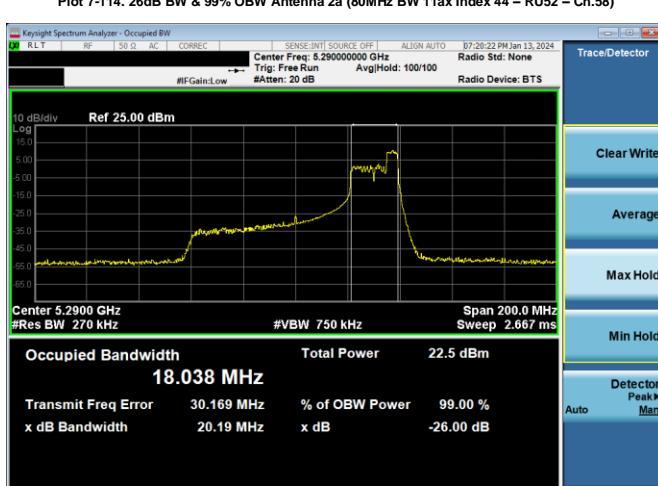
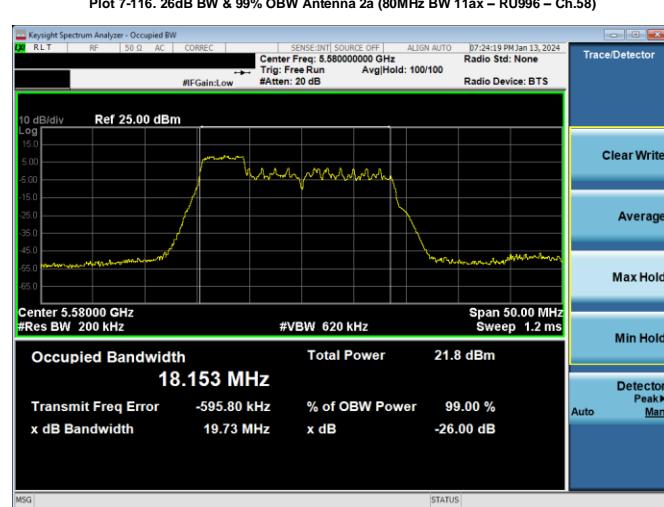
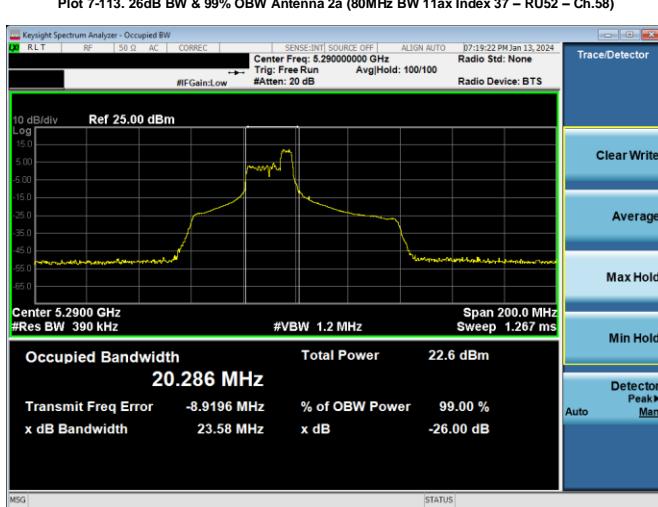


Plot 7-106. 26dB BW & 99% OBW Antenna 2a (20MHz BW 11ax Index 38 – RU52 – Ch.60)

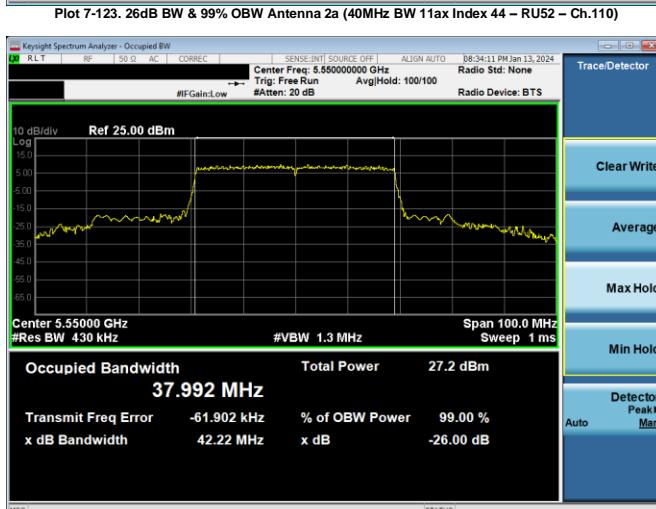
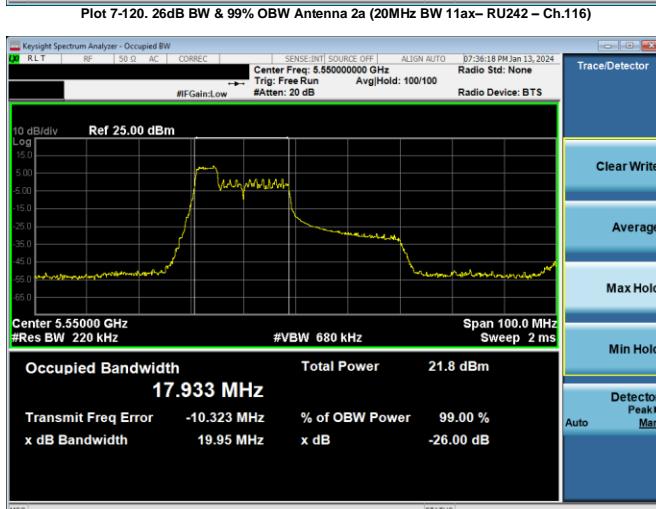
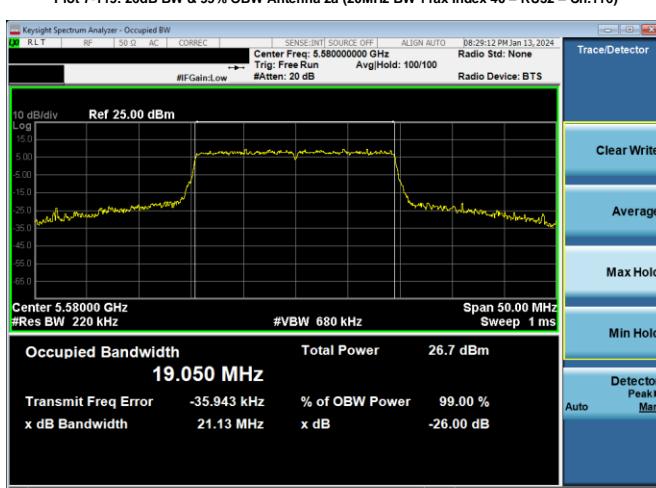
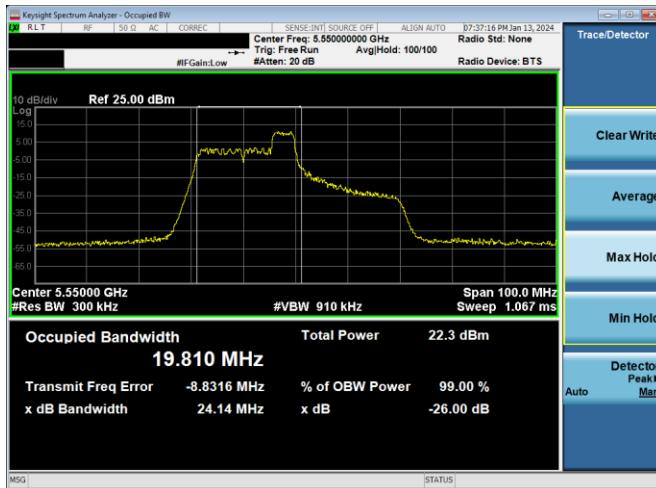
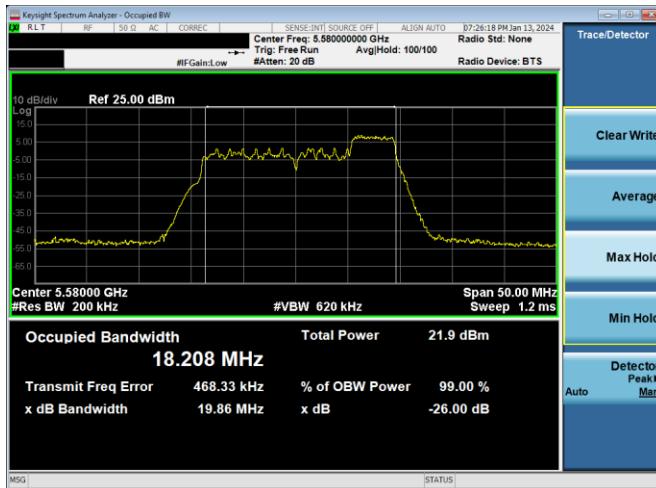
FCC ID: BCGA2837 IC: 579C-A2837		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 44 of 450



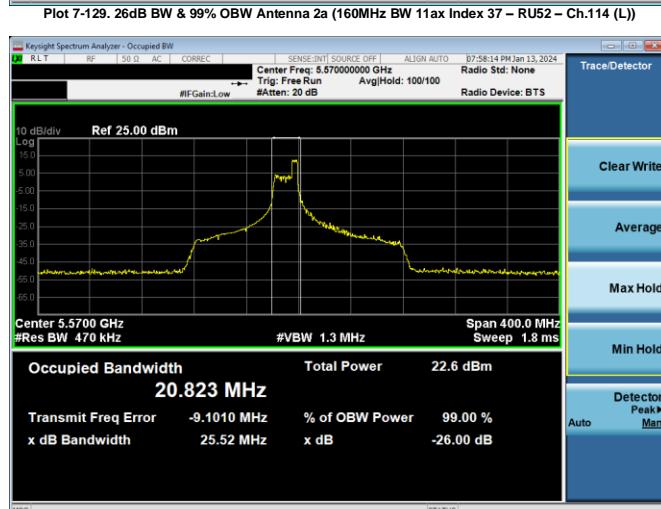
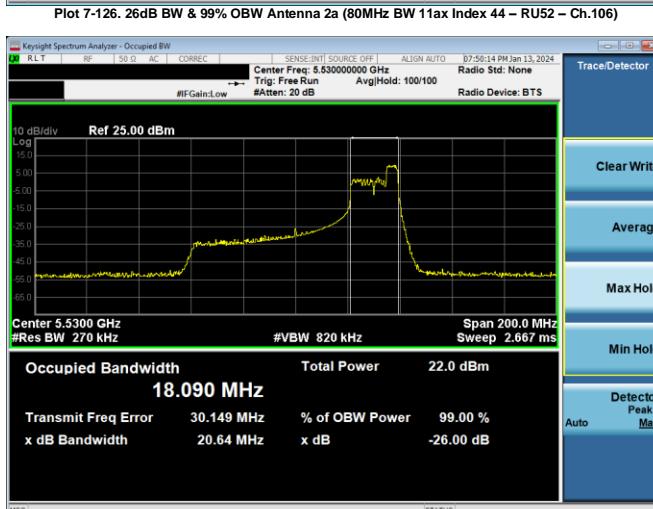
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Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 45 of 450



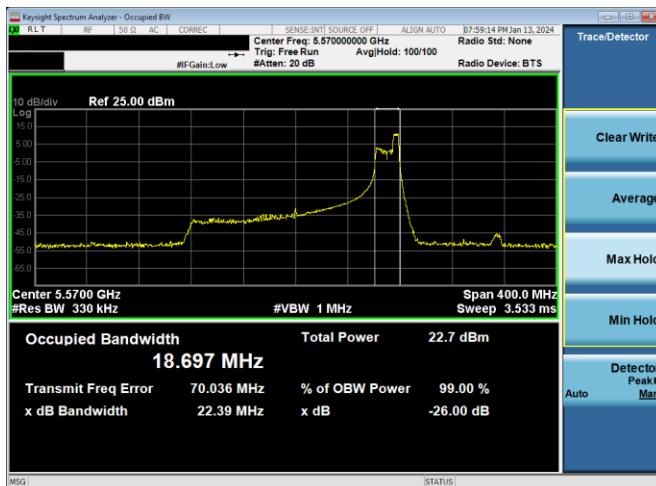
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Test Report S/N: 1C2311270068-23.BCG	Test Dates: 11/28/2023 - 3/21/2024	EUT Type: Tablet Device	Page 46 of 450



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7.3 6dB & 99% Bandwidth Measurement – 802.11ax OFDMA

§2.1049; §15.407 (e); RSS-Gen [6.7]

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 antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

In the 5.725 – 5.850GHz band, the 6dB bandwidth must be ≥ 500 kHz.

Test Procedure Used

ANSI C63.10-2013 – Subclause 6.9.2
KDB 789033 D02 v02r01 – Section C

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. 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 = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple

Test Setup

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



Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. All antenna configurations 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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Antenna WF5B 6dB & 99% Bandwidth Measurements

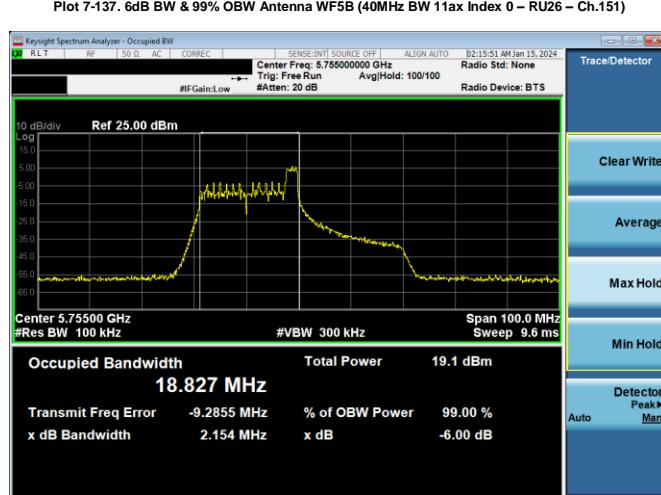
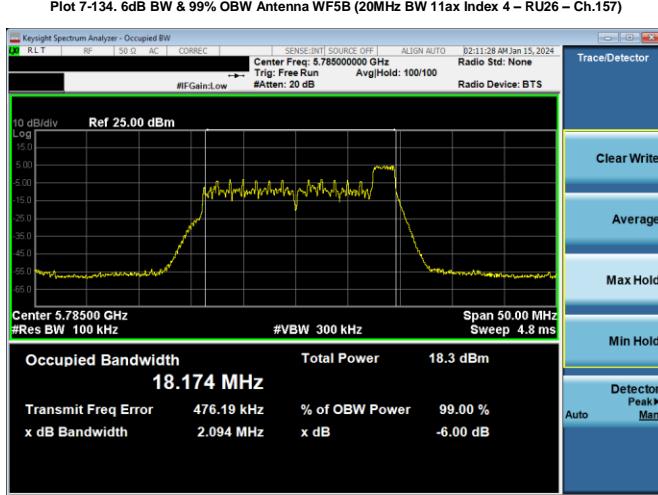
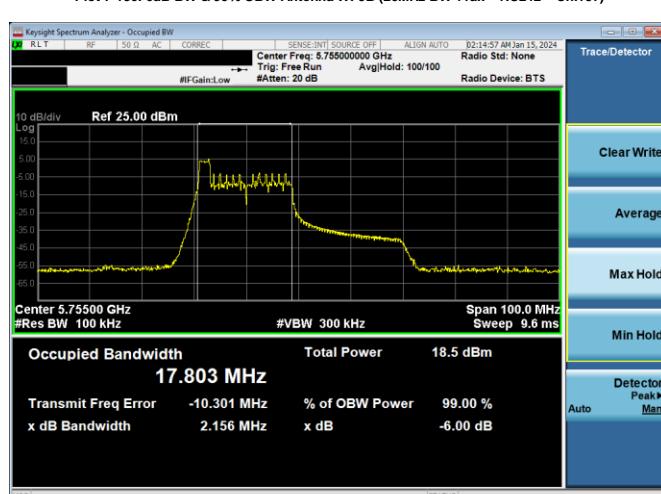
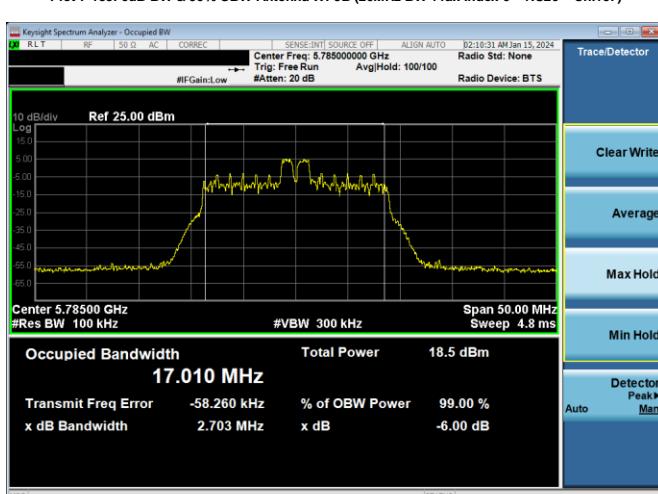
	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.08	2.10	0.50
				26	4	12.5/14.7 (MCS11)	17.03	2.71	0.50
				26	8	12.5/14.7 (MCS11)	18.22	2.10	0.50
	5785	157	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.08	2.10	0.50
				26	4	12.5/14.7 (MCS11)	17.01	2.70	0.50
				26	8	12.5/14.7 (MCS11)	18.17	2.09	0.50
	5825	165	ax (20MHz)	26	0	12.5/14.7 (MCS11)	18.09	2.11	0.50
				26	4	12.5/14.7 (MCS11)	17.03	2.72	0.50
				26	8	12.5/14.7 (MCS11)	18.21	2.09	0.50
	5755	151	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.80	2.16	0.50
				26	8	12.5/14.7 (MCS11)	18.83	2.15	0.50
				26	17	12.5/14.7 (MCS11)	17.96	2.14	0.50
	5795	159	ax (40MHz)	26	0	12.5/14.7 (MCS11)	17.83	2.16	0.50
				26	8	12.5/14.7 (MCS11)	18.86	2.14	0.50
				26	17	12.5/14.7 (MCS11)	17.96	2.15	0.50
	5775	155	ax (80MHz)	26	0	12.5/14.7 (MCS11)	17.78	2.23	0.50
				26	18	12.5/14.7 (MCS11)	36.72	2.87	0.50
				26	36	12.5/14.7 (MCS11)	17.89	2.22	0.50

Table 7-11. Conducted Bandwidth Measurements Antenna WF5B (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]
Band 3	5745	149	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.97	19.14	0.50
	5785	157	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.97	19.15	0.50
	5825	165	ax (20MHz)	242	61	121.9/143.4 (MCS11)	18.98	19.15	0.50
	5755	151	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.83	38.22	0.50
	5795	159	ax (40MHz)	484	65	243.8/286.8 (MCS11)	37.86	38.27	0.50
	5775	155	ax (80MHz)	996	67	510.4/600.5 (MCS11)	77.07	78.10	0.50

Table 7-12. Conducted Bandwidth Measurements Antenna WF5B (Fully- loaded RU)

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