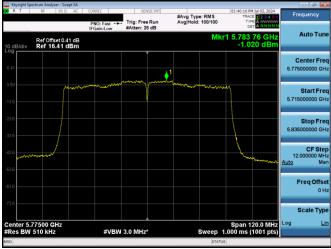


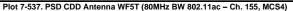






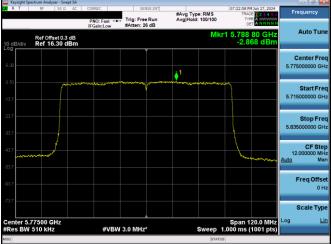
Plot 7-536. PSD CDD Antenna WF2 (40MHz BW 802.11ax(SU) - Ch. 151, MCS4)







Plot 7-538. PSD CDD Antenna WF2 (80MHz BW 802.11ac - Ch. 155, MCS4)





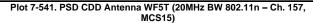
Plot 7-539. PSD CDD Antenna WF5T (80MHz BW 802.11ax(SU) – Ch. 155, MCS4)

Plot 7-540. PSD CDD Antenna WF2 (80MHz BW 802.11ax(SU) - Ch. 155, MCS4)

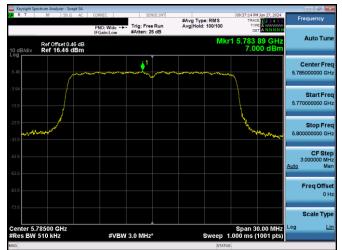
FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 200
1C2405200017-11.BCG	5/20/2024 - 8/28/2024	Tablet Device	Page 180 of 380
		·	V 10.6 10/27/2023







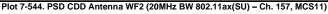




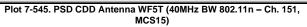
Plot 7-542. PSD CDD Antenna WF2 (20MHz BW 802.11n – Ch. 157, MCS15)

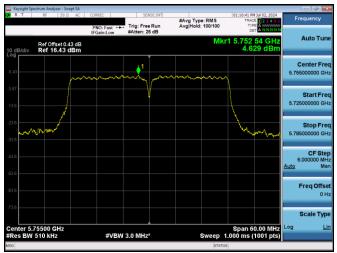
Plot 7-543. PSD CDD Antenna WF5T (20MHz BW 802.11ax(SU) - Ch. 157, MCS11)









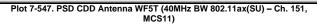


Plot 7-546. PSD CDD Antenna WF2 (40MHz BW 802.11n - Ch. 151, MCS15)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 191 of 290
1C2405200017-11.BCG	5/20/2024 - 8/28/2024	Tablet Device	Page 181 of 380
	-		V 10.6 10/27/2023

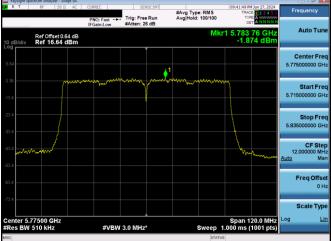




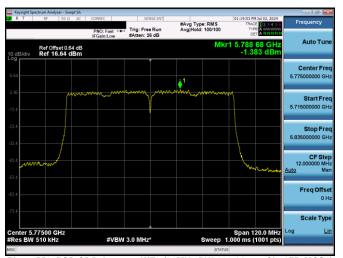




Plot 7-548. PSD CDD Antenna WF2 (40MHz BW 802.11ax(SU) - Ch. 151, MCS11)

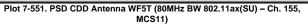


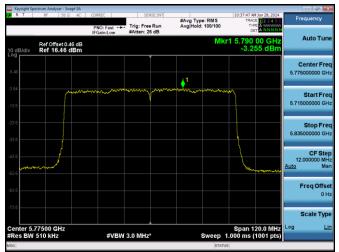
Plot 7-549. PSD CDD Antenna WF5T (80MHz BW 802.11ac - Ch. 155, MCS9)



Plot 7-550. PSD CDD Antenna WF2 (80MHz BW 802.11ac - Ch. 155, MCS9)







Plot 7-552. PSD CDD Antenna WF2 (80MHz BW 802.11ax(SU) - Ch. 155, MCS11)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 200
1C2405200017-11.BCG	5/20/2024 - 8/28/2024	Tablet Device	Page 182 of 380
			V 10.6 10/27/2023



Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF5T Power Density [dBm/MHz]	Antenna WF2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directoinal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
5180	36	n (20MHz)	SDM	39/43.3 (MCS10)	0.93	1.43	4.20	2.91	4.34	10.0	-5.66
5200	40	n (20MHz)	SDM	39/43.3 (MCS10)	0.91	1.39	4.17	2.91	4.30	10.0	-5.70
5240	48	n (20MHz)	SDM	39/43.3 (MCS10)	1.06	1.56	4.33	2.91	4.46	10.0	-5.54
5180	36	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	-0.90	-0.51	2.31	2.91	2.40	10.0	-7.60
5200	40	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	-0.62	0.01	2.72	2.91	2.92	10.0	-7.08
5240	48	ax (SU) (20MHz)	SDM	48/51.6 (MCS2)	-0.79	0.32	2.81	2.91	3.23	10.0	-6.77
5190	38	n (40MHz)	SDM	81/60 (MCS10)	0.34	0.97	3.68	2.91	3.88	10.0	-6.12
5230	46	n (40MHz)	SDM	81/60 (MCS10)	0.55	1.06	3.82	2.91	3.96	10.0	-6.04
5190	38	ax (SU) (40MHz)	SDM	98/103.2 (MCS2)	-0.79	0.00	2.64	2.91	2.91	10.0	-7.09
5230	46	ax (SU) (40MHz)	SDM	98/103.2 (MCS2)	-0.98	-0.15	2.47	2.91	2.76	10.0	-7.24
5210	42	ac (80MHz)	CDD	175.5/195 (MCS2)	-3.43	-3.14	-0.27	5.65	2.51	10.0	-7.49
5210	42	ax (SU) (80MHz)	CDD	204/216.2 (MCS2)	-4.73	-4.92	-1.81	5.65	0.72	10.0	-9.28
5250	50	ac (160MHz)	CDD	175.5/195 (MCS2)	-6.72	-5.90	-3.28	6.32	0.41	10.0	-9.59
5250	50	ax (SU) (160MHz)	CDD	204/216.2 (MCS2)	-8.30	-7.42	-4.82	6.32	-1.10	10.0	-11.10
	[MHz] 5180 5200 5240 5240 5240 5240 5240 5240 5240 5230 5230 5210 5210 5210 5250	[MHz] No. 5180 36 5200 40 5240 48 5180 36 5200 40 5240 48 5190 38 5230 46 5190 38 5230 46 5210 42 5210 42 5250 50	[MHz] No. MODE 5180 36 n (20MHz) 5200 40 n (20MHz) 5240 48 n (20MHz) 5180 36 ax (5U) (20MHz) 5200 40 ax (SU) (20MHz) 5200 40 ax (SU) (20MHz) 5240 48 ax (SU) (20MHz) 5240 48 ax (SU) (20MHz) 5190 38 n (40MHz) 5190 38 ax (SU) (40MHz) 5230 46 ax (SU) (40MHz) 5210 42 ac (80MHz) 5210 42 ax (SU) (80MHz) 5250 50 ac (160MHz)	(MHz) No. MODE Mode 5180 36 n (20MHz) SDM 5200 40 n (20MHz) SDM 5240 48 n (20MHz) SDM 5180 36 ax (SU) (20MHz) SDM 5180 36 ax (SU) (20MHz) SDM 5200 40 ax (SU) (20MHz) SDM 5240 48 ax (SU) (20MHz) SDM 5240 48 ax (SU) (20MHz) SDM 5240 48 ax (SU) (20MHz) SDM 5190 38 n (40MHz) SDM 5190 38 ax (SU) (40MHz) SDM 5190 38 ax (SU) (40MHz) SDM 5230 46 ax (SU) (40MHz) SDM 5210 42 ac (80MHz) CDD 5250 50 ac (160MHz) CDD	[MHz] No. MODE Mode Data Rate [Mbps] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) 5240 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) 5240 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) 5190 38 n (40MHz) SDM 81/60 (MCS10) 5230 46 n (40MHz) SDM 98/103.2 (MCS2) 5230 46 ax (SU) (40MHz) SDM 98/103.2 (MCS2) 5210 42 ac (80MHz) CDD 175.5/195 (MCS2) 5250 50 ac (160MHz) CDD 175.5/195 (MCS2)	Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] Power Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.02 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.62 5240 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.62 5240 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 5190 38 n (40MHz) SDM 81/60 (MCS10) 0.34 5230 46 n (40MHz) SDM 98/103.2 (MCS2) -0.79 5230 46 ax (SU) (40MHz) SDM 98/103.2 (MCS2) -0.79 5230 46 ax (SU) (40MHz) SDM 98/103.2 (MCS2) -0.79 </td <td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] [dBm/MHz] Power Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 5240 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 5200 40 ax (SU) (20MHz) SDM 81/60 (MCS10) 0.34 0.97 5230 46 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06 5230 46 ax (SU) (40MHz) SDM 98/103.2 (MCS2) -0.79 0.00 5230 46 ax (SU) (40MHz) SDM 98/103.2</td> <td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] [dBm/MHz] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] <th< td=""><td>Frequency [MHz] No. 802.11 MODE Mode Data Rate [Mbps] [dBm/MHz] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBn] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 5200 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 2.81 2.91 5200 46 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06 3.82 2.91 5230 46 n (40MHz) SDM<!--</td--><td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] 039/43.3 (MCS10) Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBi] Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 2.40 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.062 0.01 2.72 2.91 2.32 5200 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 2.81 2.91 3.23 5190 38 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06</td><td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] plant Rate [Mbps] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBm] Density [dBm/MHz] Power Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 10.0 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 10.0 5200 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 10.0 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.62 0.01 2.72 2.91 2.40 10.0 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.079 0.32 2.81 2.91 3.23 10.0 5200 46 n (40MHz) SDM 81/60 (MCS10) 0.35 1.06 3.82 2.91 3.86</td></td></th<></td>	Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] [dBm/MHz] Power Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 5240 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 5200 40 ax (SU) (20MHz) SDM 81/60 (MCS10) 0.34 0.97 5230 46 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06 5230 46 ax (SU) (40MHz) SDM 98/103.2 (MCS2) -0.79 0.00 5230 46 ax (SU) (40MHz) SDM 98/103.2	Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] [dBm/MHz] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] Density [dBm/Mtz] <th< td=""><td>Frequency [MHz] No. 802.11 MODE Mode Data Rate [Mbps] [dBm/MHz] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBn] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 5200 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 2.81 2.91 5200 46 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06 3.82 2.91 5230 46 n (40MHz) SDM<!--</td--><td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] 039/43.3 (MCS10) Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBi] Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 2.40 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.062 0.01 2.72 2.91 2.32 5200 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 2.81 2.91 3.23 5190 38 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06</td><td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] plant Rate [Mbps] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBm] Density [dBm/MHz] Power Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 10.0 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 10.0 5200 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 10.0 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.62 0.01 2.72 2.91 2.40 10.0 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.079 0.32 2.81 2.91 3.23 10.0 5200 46 n (40MHz) SDM 81/60 (MCS10) 0.35 1.06 3.82 2.91 3.86</td></td></th<>	Frequency [MHz] No. 802.11 MODE Mode Data Rate [Mbps] [dBm/MHz] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBn] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 5200 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 2.81 2.91 5200 46 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06 3.82 2.91 5230 46 n (40MHz) SDM </td <td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] 039/43.3 (MCS10) Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBi] Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 2.40 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.062 0.01 2.72 2.91 2.32 5200 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 2.81 2.91 3.23 5190 38 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06</td> <td>Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] plant Rate [Mbps] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBm] Density [dBm/MHz] Power Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 10.0 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 10.0 5200 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 10.0 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.62 0.01 2.72 2.91 2.40 10.0 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.079 0.32 2.81 2.91 3.23 10.0 5200 46 n (40MHz) SDM 81/60 (MCS10) 0.35 1.06 3.82 2.91 3.86</td>	Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] 039/43.3 (MCS10) Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBi] Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 5240 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.90 -0.51 2.31 2.91 2.40 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.062 0.01 2.72 2.91 2.32 5200 48 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.79 0.32 2.81 2.91 3.23 5190 38 n (40MHz) SDM 81/60 (MCS10) 0.55 1.06	Frequency [MHz] Channel No. 802.11 MODE Mode Data Rate [Mbps] plant Rate [Mbps] Power Density [dBm/MHz] Power Density [dBm/MHz] Density [dBm/MHz] Antenna Gain [dBm] Density [dBm/MHz] Power Density [dBm/MHz] 5180 36 n (20MHz) SDM 39/43.3 (MCS10) 0.93 1.43 4.20 2.91 4.34 10.0 5200 40 n (20MHz) SDM 39/43.3 (MCS10) 0.91 1.39 4.17 2.91 4.30 10.0 5200 48 n (20MHz) SDM 39/43.3 (MCS10) 1.06 1.56 4.33 2.91 4.46 10.0 5180 36 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.62 0.01 2.72 2.91 2.40 10.0 5200 40 ax (SU) (20MHz) SDM 48/51.6 (MCS2) -0.079 0.32 2.81 2.91 3.23 10.0 5200 46 n (40MHz) SDM 81/60 (MCS10) 0.35 1.06 3.82 2.91 3.86

Table 7-140. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (Low Data Rate)

	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF5T Power Density [dBm/MHz]	Antenna WF2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directoinal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
	5180	36	n (20MHz)	SDM	78/86.7 (MCS12)	0.75	1.37	4.08	2.91	4.27	10.0	-5.73
	5200	40	n (20MHz)	SDM	78/86.7 (MCS12)	0.95	1.43	4.21	2.91	4.34	10.0	-5.66
	5240	48	n (20MHz)	SDM	78/86.7 (MCS12)	1.32	1.77	4.56	2.91	4.68	10.0	-5.32
	5180	36	ax (SU) (20MHz)	SDM	98/103.2 (MCS4)	-0.67	-0.20	2.58	2.91	2.70	10.0	-7.30
	5200	40	ax (SU) (20MHz)	SDM	98/103.2 (MCS4)	-0.73	0.08	2.71	2.91	2.99	10.0	-7.01
d 1	5240	48	ax (SU) (20MHz)	SDM	98/103.2 (MCS4)	-0.84	0.24	2.74	2.91	3.14	10.0	-6.86
Band	5190	38	n (40MHz)	SDM	162/180 (MCS12)	0.60	1.27	3.96	2.91	4.17	10.0	-5.83
_	5230	46	n (40MHz)	SDM	162/180 (MCS12)	0.38	1.17	3.80	2.91	4.08	10.0	-5.92
	5190	38	ax (SU) (40MHz)	SDM	196/206.5 (MCS4)	-1.83	-0.85	1.70	2.91	2.06	10.0	-7.94
	5230	46	ax (SU) (40MHz)	SDM	196/206.5 (MCS4)	-0.90	-0.25	2.45	2.91	2.66	10.0	-7.34
	5210	42	ac (80MHz)	CDD	351/390 (MCS4)	-3.68	-3.08	-0.36	5.65	2.57	10.0	-7.43
	5210	42	ax (SU) (80MHz)	CDD	408/432.4 (MCS4)	-5.08	-4.40	-1.72	5.65	1.25	10.0	-8.75
Band 1/2	5250	50	ac (160MHz)	CDD	351/390 (MCS4)	-7.06	-6.94	-3.99	6.32	-0.63	10.0	-10.63
1/	5250	50	ax (SU) (160MHz)	CDD	408/432.4 (MCS4)	-8.70	-8.11	-5.38	6.32	-1.79	10.0	-11.79

Table 7-141. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (Mid Data Rate)

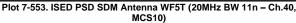
	Frequency [MHz]	Channel No.	802.11 MODE	Mode	Data Rate [Mbps]	Antenna WF5T Power Density [dBm/MHz]	Antenna WF2 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directoinal Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
	5180	36	n (20MHz)	SDM	130/144.4 (MCS15)	-0.38	-0.11	2.77	2.91	2.80	10.0	-7.20
	5200	40	n (20MHz)	SDM	130/144.4 (MCS15)	-0.12	0.11	3.01	2.91	3.02	10.0	-6.98
	5240	48	n (20MHz)	SDM	130/144.4 (MCS15)	-0.20	0.26	3.05	2.91	3.17	10.0	-6.83
	5180	36	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	-0.51	-0.03	2.74	2.91	2.87	10.0	-7.13
	5200	40	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	-0.55	0.14	2.82	2.91	3.05	10.0	-6.95
d 1	5240	48	ax (SU) (20MHz)	SDM	270/286.8 (MCS11)	-0.19	0.54	3.20	2.91	3.45	10.0	-6.55
Band	5190	38	n (40MHz)	SDM	270/300 (MCS15)	-1.22	-0.66	2.08	2.91	2.25	10.0	-7.75
-	5230	46	n (40MHz)	SDM	270/300 (MCS15)	-0.33	0.49	3.11	2.91	3.40	10.0	-6.60
	5190	38	ax (SU) (40MHz)	SDM	271/286.8 (MCS11)	-1.52	-0.87	1.83	2.91	2.04	10.0	-7.96
	5230	46	ax (SU) (40MHz)	SDM	271/286.8 (MCS11)	-0.98	-0.23	2.42	2.91	2.68	10.0	-7.32
	5210	42	ac (80MHz)	CDD	780/866.7 (MCS9)	-5.15	-4.75	-1.93	5.65	0.90	10.0	-9.10
	5210	42	ax (SU) (80MHz)	CDD	1134/1201 (MCS11)	-5.09	-4.76	-1.92	5.65	0.88	10.0	-9.12
Band 1/2	5250	50	ac (160MHz)	CDD	780/866.7 (MCS9)	-8.92	-8.54	-5.71	6.32	-2.22	10.0	-12.22
1 Ba	5250	50	ax (SU) (160MHz)	CDD	1134/1201 (MCS11)	-9.21	-9.01	-6.10	6.32	-2.69	10.0	-12.69

Table 7-142. ISED Band 1 e.i.r.p. Power Spectral Density Measurements CDD/SDM (High Data Rate)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dege 102 of 200
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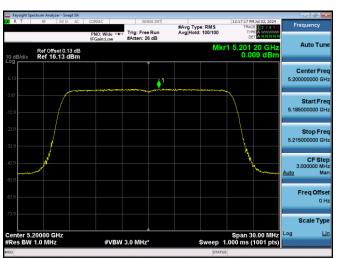




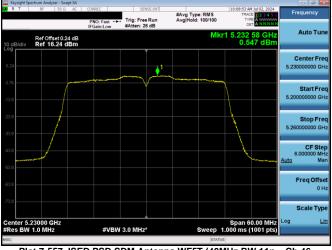


Plot 7-554. ISED PSD SDM Antenna WF2 (20MHz BW 11n – Ch.40, MCS10)

Plot 7-555. ISED PSD SDM Antenna WF5T (20MHz BW 11ax(SU) - Ch.40, MCS2)



Plot 7-556. ISED PSD SDM Antenna WF2 (20MHz BW 11ax(SU) - Ch.40, MCS2)



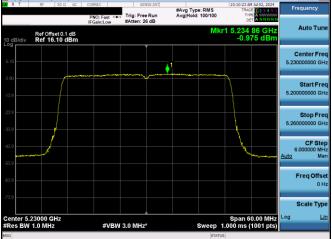
Plot 7-557. ISED PSD SDM Antenna WF5T (40MHz BW 11n - Ch.46, MCS10)

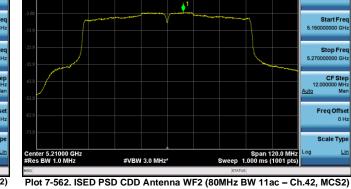


Plot 7-558. ISED PSD SDM Antenna WF2 (40MHz BW 11n - Ch.46, MCS10)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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PNO: Fast ----- Trig: Free Run

Ref Offset 0.12 dB Ref 16.12 dBm

#Avg Type: RMS Avg|Hold: 100/100

3 13

Auto Tu

Center Fre 5.21000000 GH

Start Fre

Stop Fre

CF Ste

0 H

Lit

Fred

Auto Tun

Center Fre 5.2100 00 GH

Start Fre

Stop Free 5.27000000 GH

CF Step 12.0000

Freq Offse

Scale Type

_og

0 Н

Li

5 15





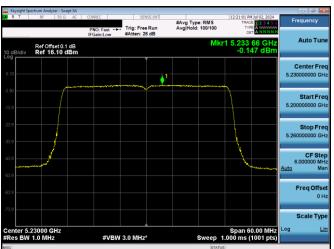
Plot 7-563. ISED PSD CDD Antenna WF5T (80MHz BW 11ax (SU) – Ch.42, MCS2)

Plot 7-564. ISED PSD CDD Antenna WF2 (80MHz BW 11ax (SU) - Ch.42, MCS2)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 195 of 290
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Plot 7-559. ISED PSD SDM Antenna WF5T (40MHz BW 11ax(SU) - Ch.46, MCS2)



Plot 7-560. ISED SDM PSD Antenna WF2 (40MHz BW 11ax(SU) - Ch.46, MCS2)

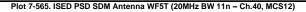
R

Plot 7-561. ISED PSD CDD Antenna WF5T (80MHz BW 11ac - Ch.42, MCS2)

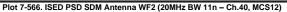
[#]Avg Type: RMS Avg|Hold: 100/10 Trig: Free Run #Atten: 26 dB Ref Offset 0.12 dB Ref 16.12 dBm Center 5.21000 GHz #Res BW 1.0 MHz Span 120.0 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz*

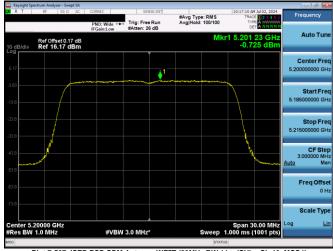




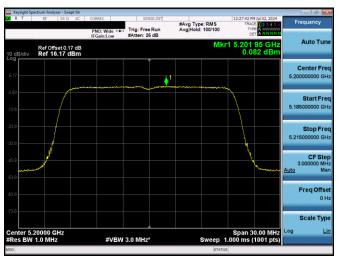


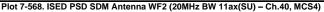




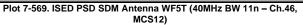


Plot 7-567. ISED PSD SDM Antenna WF5T (20MHz BW 11ax(SU) - Ch.40, MCS4)









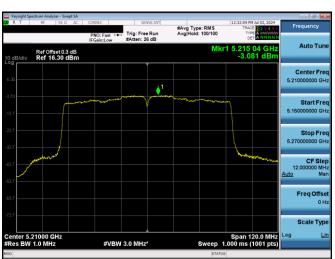


Plot 7-570. ISED PSD SDM Antenna WF2 (40MHz BW 11n - Ch.46, MCS12)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 200
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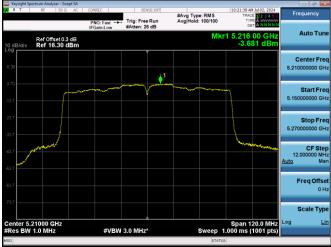




Plot 7-571. ISED PSD SDM Antenna WF5T (40MHz BW 11ax(SU) – Ch.46, MCS4)



Plot 7-572. ISED SDM PSD Antenna WF2 (40MHz BW 11ax(SU) - Ch.46, MCS4)



Plot 7-573. ISED PSD CDD Antenna WF5T (80MHz BW 11ac - Ch.42, MCS4)

Plot 7-574. ISED PSD CDD Antenna WF2 (80MHz BW 11ac - Ch.42, MCS4)





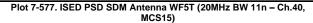
Plot 7-575. ISED PSD CDD Antenna WF5T (80MHz BW 11ax (SU) – Ch.42, MCS4)

Plot 7-576. ISED PSD CDD Antenna WF2 (80MHz BW 11ax (SU) – Ch.42, MCS4)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 107 of 200
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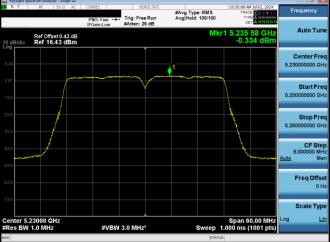


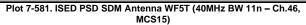






Plot 7-580. ISED PSD SDM Antenna WF2 (20MHz BW 11ax(SU) - Ch.40, MCS11)







Plot 7-582. ISED PSD SDM Antenna WF2 (40MHz BW 11n - Ch.46, MCS15)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 188 of 380
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Plot 7-578. ISED PSD SDM Antenna WF2 (20MHz BW 11n - Ch.40, MCS15)

#Avg Type: RMS AvgiHold: 100/100

Trig: Free Run PNO: Wide Auto Tur .204 83 GH -0.551 dB Ref Offset 0.46 dB Ref 16.46 dBm Center Fre 5.20000000 GH <mark>أ</mark> Start Fr Stop Fre 5 21 CF Step 3.000 Freq Offse 0 + Scale Typ - 5.20000 GHz BW 1.0 MH= Span 30.00 Mi Sweep 1.000 ms (1001 pt Li Log #VBW 3.0 MHz*

Plot 7-579. ISED PSD SDM Antenna WF5T (20MHz BW 11ax(SU) - Ch.40, MCS11)

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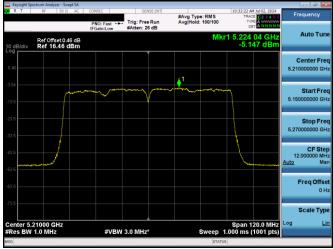




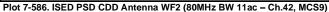
Plot 7-583. ISED PSD SDM Antenna WF5T (40MHz BW 11ax(SU) - Ch.46, MCS11)



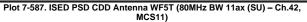
Plot 7-584. ISED SDM PSD Antenna WF2 (40MHz BW 11ax(SU) – Ch.46, MCS11)

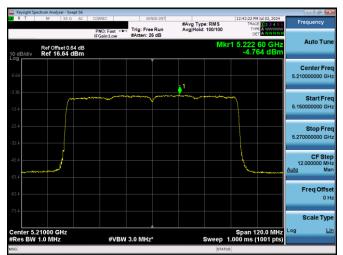


Plot 7-585. ISED PSD CDD Antenna WF5T (80MHz BW 11ac - Ch.42, MCS9)









Plot 7-588. ISED PSD CDD Antenna WF2 (80MHz BW 11ax (SU) - Ch.42, MCS11)

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6 Radiated Spurious Emissions – Above 1GHz §15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna 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. All channels, modes (e.g. 802.11a, 802.11n, 802.11ax(SU) (20MHz BW), 802.11n, 802.11ax(SU) (40MHz BW), and 802.11ac, 802.11ax(SU) (80MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at 5 MHz above or below the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-143 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [µV/m]	Measured Distance [Meters]	
Above 960.0 MHz	500	3	

Table 7-143. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Sections 12.7.7.2, 12.7.6 KDB 789033 D02 v02r01 – Section G

Test Settings

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
- 6. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

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Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Test Setup

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

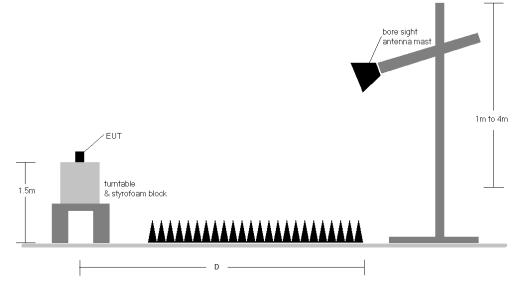


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: BCGA2993 IC: 579C-A2993	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 191 of 380
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Test Notes

- 1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-143.
- 2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-143. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
- 6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. All data rates were investigated and only the worse case is reported
- 9. The unit was tested with all possible modes and only the highest emission is reported.
- 10. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- ο Field Strength Level [dB_μV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level $[dB_{\mu}V/m]$ Limit $[dB_{\mu}V/m]$

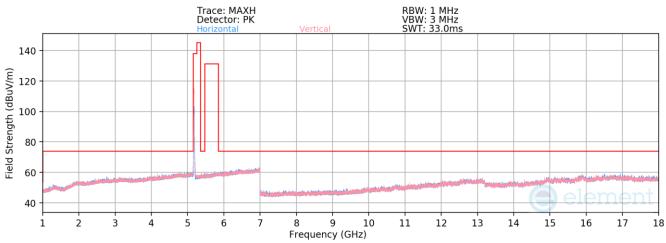
Radiated Band Edge Measurement Offset

• The amplitude offset shown in the radiated restricted band edge plots in Section 7.6.5 to 7.6.16 was calculated using the formula:

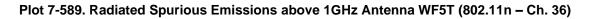
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6.1 Antenna WF5T Radiated Spurious Emission



Mode:	802.11n
Data Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
	10360.00	Peak	V	-	-	-71.84	15.25	50.41	68.23	-17.82
*	15540.00	Average	V	-	-	-85.24	23.50	45.26	53.98	-8.72
*	15540.00	Peak	V	-	-	-73.87	23.25	56.38	73.98	-17.60

Table 7-144. Radiated Spurious Emission Measurements Antenna WF5T

FCC ID: BCGA2993 IC: 579C-A2993	element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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