



Plot 7-420. PSD CDD Antenna WF8 (20MHz BW 802.11n - Ch. 60, MCS12)



Plot 7-421. PSD CDD Antenna WF7a (20MHz BW 802.11n - Ch. 60, MCS12)



Plot 7-422. PSD CDD Antenna WF8 (20MHz BW 802.11ax(SU) - Ch. 60, MCS4)



Plot 7-423. PSD CDD Antenna WF7a (20MHz BW 802.11ax(SU) - Ch. 60, MCS4)



Plot 7-424. PSD CDD Antenna WF8 (40MHz BW 802.11n - Ch. 54, MCS12)



Plot 7-425. PSD CDD Antenna WF7a (40MHz BW 802.11n - Ch. 54, MCS12)

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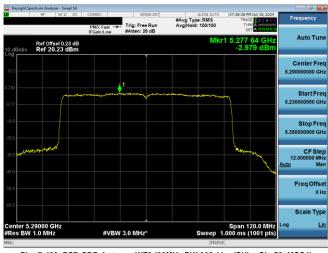
Plot 7-426. PSD CDD Antenna WF8 (40MHz BW 802.11ax(SU) - Ch. 54, MCS4)



Plot 7-429. PSD CDD Antenna WF7a (80MHz BW 802.11ac - Ch. 58, MCS4)



Plot 7-427. PSD CDD Antenna WF7a (40MHz BW 802.11ax(SU) - Ch. 54, MCS4)



Plot 7-430. PSD CDD Antenna WF8 (80MHz BW 802.11ax(SU) - Ch. 58, MCS4)



Plot 7-428. PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch. 58, MCS4)



Plot 7-431. PSD CDD Antenna WF7a (80MHz BW 802.11ax(SU) - Ch. 58, MCS4)

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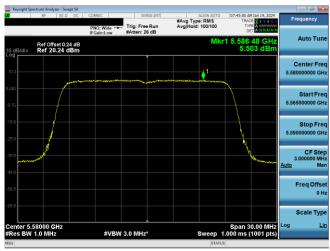
Plot 7-432. PSD SDM Antenna WF8 (20MHz BW 802.11n - Ch. 116, MCS12)



Plot 7-433. PSD SDM Antenna WF7a (20MHz BW 802.11n - Ch. 116, MCS12)



Plot 7-434. PSD SDM Antenna WF8 (20MHz BW 802.11ax(SU) - Ch. 116, MCS4)



Plot 7-435. PSD SDM Antenna WF7a (20MHz BW 802.11ax(SU) - Ch. 116, MCS4)



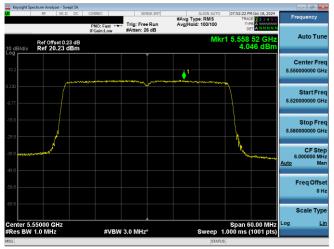
Plot 7-436. PSD SDM Antenna WF8 (40MHz BW 802.11n - Ch. 110, MCS12)



Plot 7-437. PSD SDM Antenna WF7a (40MHz BW 802.11n - Ch. 110, MCS12)

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Plot 7-438. PSD CDD Antenna WF8 (40MHz BW 802.11ax(SU) - Ch. 110, MCS4)





Plot 7-439. PSD CDD Antenna WF7a (40MHz BW 802.11ax(SU) - Ch. 110, MCS4)



Plot 7-442. PSD CDD Antenna WF8 (80MHz BW 802.11ax(SU) - Ch. 122, MCS4)



Plot 7-440. PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch. 122, MCS4)



Plot 7-443. PSD CDD Antenna WF7a (80MHz BW 802.11ax(SU) - Ch. 122, MCS4)

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Plot 7-444. PSD CDD Antenna WF8 (20MHz BW 802.11n - Ch. 40, MCS15)



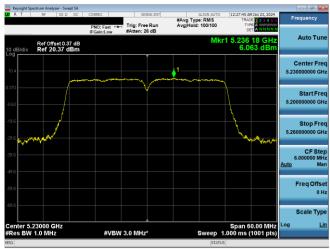
Plot 7-445. PSD CDD Antenna WF7a (20MHz BW 802.11n - Ch. 40, MCS15)



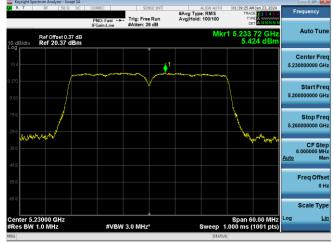
Plot 7-446. PSD CDD Antenna WF8 (20MHz BW 802.11ax(SU) - Ch. 40, MCS11)



Plot 7-447. PSD CDD Antenna WF7a (20MHz BW 802.11ax(SU) - Ch. 40, MCS11)



Plot 7-448. PSD CDD Antenna WF8 (40MHz BW 802.11n - Ch. 46, MCS15)



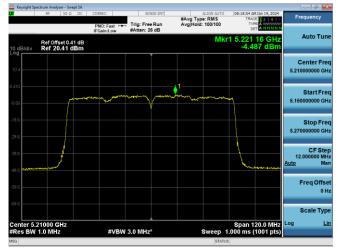
Plot 7-449. PSD CDD Antenna WF7a (40MHz BW 802.11n - Ch. 46, MCS15)

FCC ID: BCGA2902 IC: 579C-A2902	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager	
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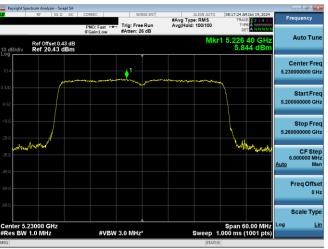




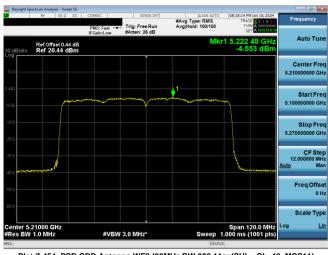
Plot 7-450. PSD CDD Antenna WF8 (40MHz BW 802.11ax(SU) - Ch. 46, MCS11)



Plot 7-453. PSD CDD Antenna WF7a (80MHz BW 802.11ac - Ch. 42, MCS9)



Plot 7-451. PSD CDD Antenna WF7a (40MHz BW 802.11ax(SU) - Ch. 46, MCS11)



Plot 7-454. PSD CDD Antenna WF8 (80MHz BW 802.11ax(SU) - Ch. 42, MCS11)



Plot 7-452. PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch. 42, MCS9)



Plot 7-455. PSD CDD Antenna WF7a (80MHz BW 802.11ax(SU) - Ch. 42, MCS11)

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Plot 7-456. PSD CDD Antenna WF8 (20MHz BW 802.11n - Ch. 60, MCS15)



#Avg Type: RMS

Ref Offset 0.41 dB Ref 20.41 dBm

enter 5.27000 GHz Res BW 1.0 MHz Auto Tun

Center Fre

5.285000000 GH Stop Fre

CFSt

Scale Typ

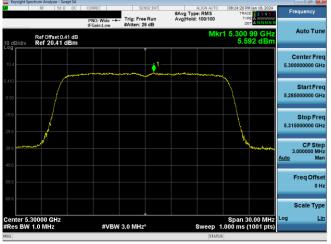
Plot 7-460. PSD CDD Antenna WF8 (40MHz BW 802.11n - Ch. 54, MCS15)

#VBW 3.0 MHz*

Span 60.00 MHz Sweep 1.000 ms (1001 pts)



Plot 7-457. PSD CDD Antenna WF7a (20MHz BW 802.11n - Ch. 60, MCS15)



Plot 7-458. PSD CDD Antenna WF8 (20MHz BW 802.11ax(SU) - Ch. 60, MCS11)



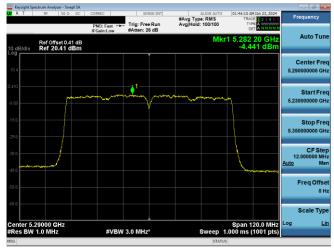
Plot 7-461. PSD CDD Antenna WF7a (40MHz BW 802.11n - Ch. 54, MCS15)

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Plot 7-462. PSD CDD Antenna WF8 (40MHz BW 802.11ax(SU) - Ch. 54, MCS11)



Plot 7-465. PSD CDD Antenna WF7a (80MHz BW 802.11ac - Ch. 58, MCS9)



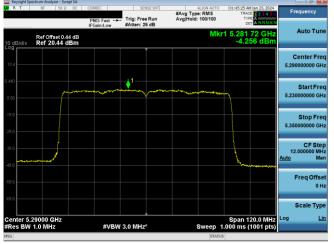
Plot 7-463. PSD CDD Antenna WF7a (40MHz BW 802.11ax(SU) - Ch. 54, MCS11)



Plot 7-466. PSD CDD Antenna WF8 (80MHz BW 802.11ax(SU) - Ch. 58, MCS11)



Plot 7-464. PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch. 58, MCS9)



Plot 7-467. PSD CDD Antenna WF7a (80MHz BW 802.11ax(SU) - Ch. 58, MCS11)

FCC ID: BCGA2902 IC: 579C-A2902	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager	
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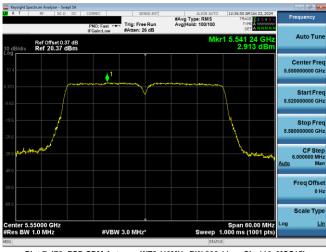


Plot 7-468. PSD SDM Antenna WF8 (20MHz BW 802.11n - Ch. 116, MCS15)





Plot 7-469. PSD SDM Antenna WF7a (20MHz BW 802.11n - Ch. 116, MCS15)



Plot 7-472. PSD SDM Antenna WF8 (40MHz BW 802.11n - Ch. 110, MCS15)



Plot 7-470. PSD SDM Antenna WF8 (20MHz BW 802.11ax(SU) - Ch. 116, MCS11)



Plot 7-473. PSD SDM Antenna WF7a (40MHz BW 802.11n - Ch. 110, MCS15)

FCC ID: BCGA2902 IC: 579C-A2902	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager	
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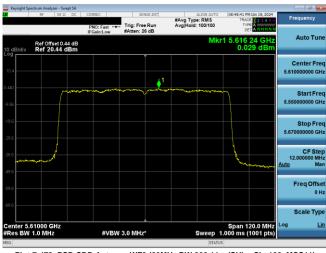


Plot 7-474. PSD CDD Antenna WF8 (40MHz BW 802.11ax(SU) - Ch. 110, MCS11)





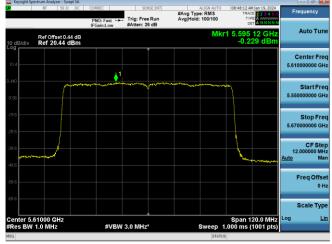
Plot 7-475. PSD CDD Antenna WF7a (40MHz BW 802.11ax(SU) - Ch. 110, MCS11)



Plot 7-478. PSD CDD Antenna WF8 (80MHz BW 802.11ax(SU) - Ch. 122, MCS11)



Plot 7-476. PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch. 122, MCS9)



Plot 7-479. PSD CDD Antenna WF7a (80MHz BW 802.11ax(SU) - Ch. 122, MCS11)

FCC ID: BCGA2902 IC: 579C-A2902	element MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager	
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	Frequency [MHz]	Channel	802.11 MODE	Mode	Data Rate [Mbps]	Ant WF8 Power Density [dBm/500kHz]	Ant WF7a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	n (20MHz)	CDD	39/43.3 (MCS10)	2.89	1.76	5.37	30.0	-24.63
	5785	157	n (20MHz)	CDD	39/43.3 (MCS10)	2.15	0.99	4.62	30.0	-25.38
	5825	165	n (20MHz)	CDD	39/43.3 (MCS10)	2.28	1.60	4.96	30.0	-25.04
	5745	149	ax (SU) (20MHz)	CDD	48/51.6 (MCS2)	6.13	6.21	9.18	30.0	-20.82
က	5785	157	ax (SU) (20MHz)	CDD	48/51.6 (MCS2)	5.71	6.04	8.89	30.0	-21.11
	5825	165	ax (SU) (20MHz)	CDD	48/51.6 (MCS2)	5.92	5.82	8.88	30.0	-21.12
Band	5755	151	n (40MHz)	CDD	81/90 (MCS10)	0.11	-0.51	2.82	30.0	-27.18
_	5795	159	n (40MHz)	CDD	81/90 (MCS10)	0.04	-1.22	2.47	30.0	-27.53
	5755	151	ax (SU) (40MHz)	CDD	196/206.5 (MCS4)	3.32	3.55	6.45	30.0	-23.55
	5795	159	ax (SU) (40MHz)	CDD	196/206.5 (MCS4)	3.44	3.51	6.48	30.0	-23.52
	5775	155	ac (80MHz)	CDD	351/390 (MCS4)	-1.27	-0.87	1.95	30.0	-28.05
	5775	155	ax (SU) (80MHz)	CDD	408/432.4 (MCS4)	-2.99	-2.61	0.22	30.0	-29.78

Table 7-137. Band 3 Power Spectral Density Measurements CDD (Low Data Rate)

	Frequency [MHz]	Channel	802.11 MODE	Mode	Data Rate [Mbps]	Ant WF8 Power Density [dBm/500kHz]	Ant WF7a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
	5745	149	n (20MHz)	CDD	78/86.7 (MCS12)	3.14	1.68	5.48	30.0	-24.52
	5785	157	n (20MHz)	CDD	78/86.7 (MCS12)	1.84	1.02	4.46	30.0	-25.54
	5825	165	n (20MHz)	CDD	78/86.7 (MCS12)	2.31	1.52	4.94	30.0	-25.06
	5745	149	ax (SU) (20MHz)	CDD	48/51.6 (MCS4)	6.31	6.29	9.31	30.0	-20.69
က	5785	157	ax (SU) (20MHz)	CDD	48/51.6 (MCS4)	5.70	6.03	8.88	30.0	-21.12
	5825	165	ax (SU) (20MHz)	CDD	48/51.6 (MCS4)	6.28	6.03	9.17	30.0	-20.83
Band	5755	151	n (40MHz)	CDD	162/180 (MCS12)	0.41	-0.68	2.91	30.0	-27.09
_	5795	159	n (40MHz)	CDD	162/180 (MCS12)	0.26	-1.00	2.69	30.0	-27.31
	5755	151	ax (SU) (40MHz)	CDD	196/206.5 (MCS4)	3.36	3.26	6.32	30.0	-23.68
	5795	159	ax (SU) (40MHz)	CDD	196/206.5 (MCS4)	3.86	4.07	6.97	30.0	-23.03
	5775	155	ac (80MHz)	CDD	351/390 (MCS4)	-1.61	-1.08	1.68	30.0	-28.32
	5775	155	ax (SU) (80MHz)	CDD	408/432.4 (MCS4)	-3.44	-3.74	-0.58	30.0	-30.58

Table 7-138. Band 3 Power Spectral Density Measurements CDD (Mid Data Rate)

	Frequency [MHz]	Channel	802.11 MODE	Mode	Data Rate [Mbps]	Ant WF8 Power Density [dBm/500kHz]	Ant WF7a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	CDD	270/300 (MCS15)	1.88	0.84	4.40	30.0	-25.60
	5785	157	n (20MHz)	CDD	270/300 (MCS15)	0.91	-0.18	3.41	30.0	-26.59
	5825	165	n (20MHz)	CDD	270/300 (MCS15)	0.76	0.33	3.56	30.0	-26.44
	5745	149	ax (SU) (20MHz)	CDD	270/286.8 (MCS11)	6.45	6.93	9.71	30.0	-20.29
	5785	157	ax (SU) (20MHz)	CDD	270/286.8 (MCS11)	6.44	6.61	9.54	30.0	-20.46
	5825	165	ax (SU) (20MHz)	CDD	270/286.8 (MCS11)	6.48	6.59	9.55	30.0	-20.45
	5755	151	n (40MHz)	CDD	270/300 (MCS15)	-0.85	-1.53	1.83	30.0	-28.17
	5795	159	n (40MHz)	CDD	270/300 (MCS15)	-0.47	-1.85	1.91	30.0	-28.09
	5755	151	ax (SU) (40MHz)	CDD	540/573.5 (MCS11)	3.57	3.36	6.48	30.0	-23.52
	5795	159	ax (SU) (40MHz)	CDD	540/573.5 (MCS11)	4.22	4.15	7.19	30.0	-22.81
	5775	155	ac (80MHz)	CDD	780/866.7 (MCS9)	-2.57	-2.71	0.37	30.0	-29.63
	5775	155	ax (SU) (80MHz)	CDD	1134/1201 (MCS11)	-3.54	-3.08	-0.29	30.0	-30.29

Table 7-139. Band 3 Power Spectral Density Measurements CDD (High Data Rate)

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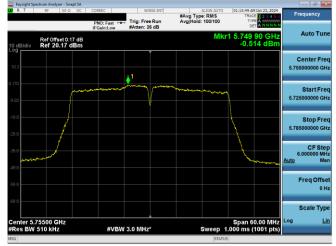
Plot 7-481. PSD CDD Antenna WF7a (20MHz BW 802.11n - Ch. 157, MCS10)



Plot 7-484. PSD CDD Antenna WF8 (40MHz BW 802.11n - Ch. 151, MCS10)



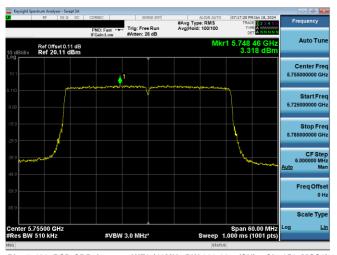
Plot 7-482. PSD CDD Antenna WF8 (20MHZ BW 802.11ax(SU) - Ch. 157, MCS2)



Plot 7-485. PSD CDD Antenna WF7a (40MHz BW 802.11n - Ch. 151, MCS10)

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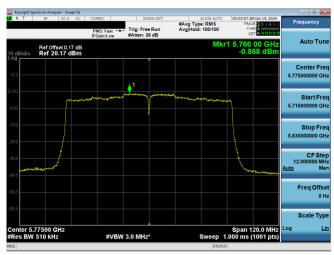
Plot 7-486. PSD CDD Antenna WF8 (40MHz BW 802.11ax(SU) - Ch. 151, MCS2)



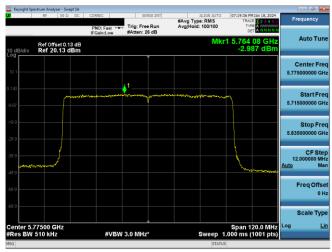
Plot 7-487. PSD CDD Antenna WF7a (40MHz BW 802.11ax(SU) - Ch. 151, MCS2)



Plot 7-488. PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch. 155, MCS2)



Plot 7-489. PSD CDD Antenna WF7a (80MHz BW 802.11ac - Ch. 155, MCS2)



Plot 7-490. PSD CDD Antenna WF8 (80MHz BW 802.11ax(SU) - Ch. 155, MCS2)



Plot 7-491. PSD CDD Antenna WF7a (80MHz BW 802.11ax(SU) - Ch. 155, MCS2)

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Plot 7-493. PSD CDD Antenna WF7a (20MHz BW 802.11n - Ch. 157, MCS12)



Plot 7-496. PSD CDD Antenna WF8 (40MHz BW 802.11n - Ch. 151, MCS12)



Plot 7-494. PSD CDD Antenna WF8 (20MHz BW 802.11ax(SU) - Ch. 157, MCS4)



Plot 7-497. PSD CDD Antenna WF7a (40MHz BW 802.11n – Ch. 151, MCS12)

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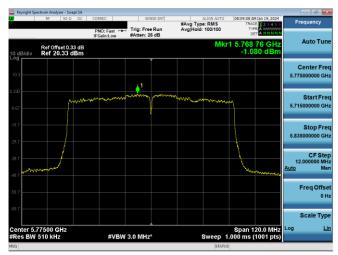
Plot 7-498. PSD CDD Antenna WF8 (40MHz BW 802.11ax(SU) - Ch. 151, MCS4)



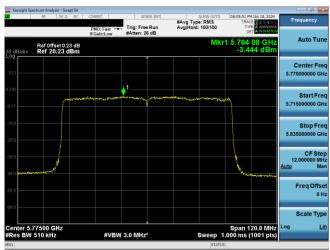
Plot 7-499. PSD CDD Antenna WF7a (40MHz BW 802.11ax(SU) - Ch. 151, MCS4)



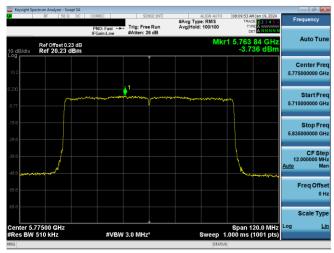
Plot 7-500. PSD CDD Antenna WF8 (80MHz BW 802.11ac - Ch. 155, MCS4)



Plot 7-501. PSD CDD Antenna WF7a (80MHz BW 802.11ac - Ch. 155, MCS4)



Plot 7-502. PSD CDD Antenna WF8 (80MHz BW 802.11ax(SU) - Ch. 155, MCS4)



Plot 7-503. PSD CDD Antenna WF7a (80MHz BW 802.11ax(SU) - Ch. 155, MCS4)

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