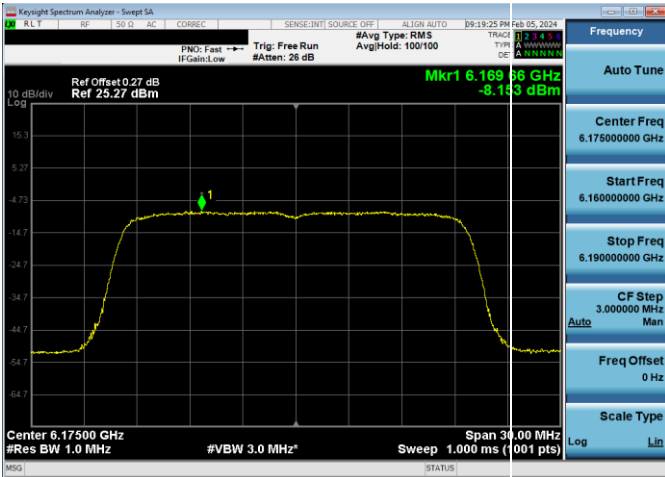
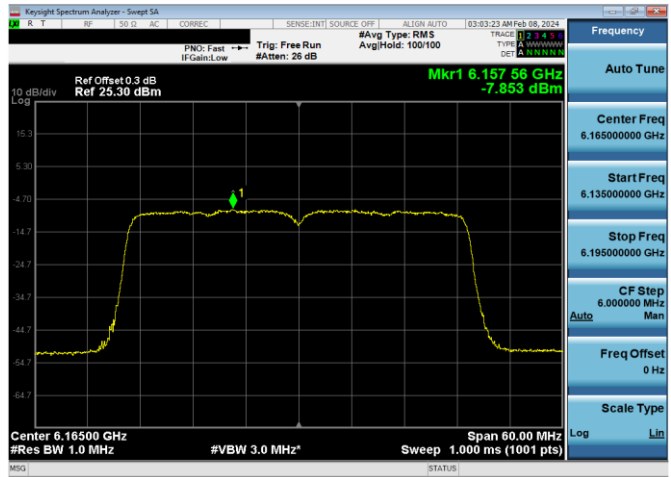


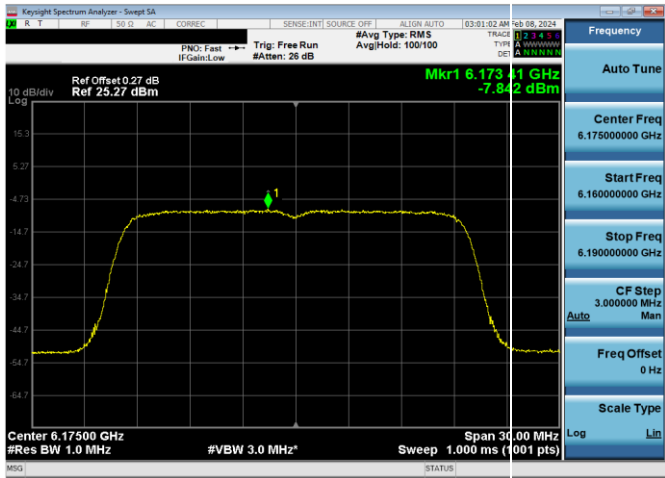
High Data Rate



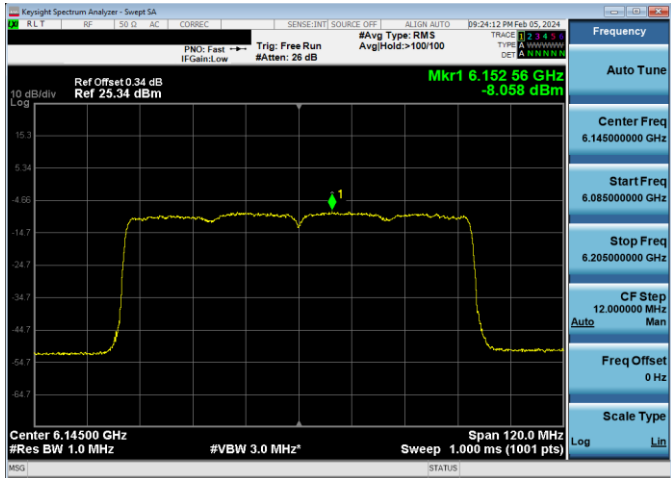
Plot 7-611. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (20MHz 802.11ax (UNII Band 5) - Ch. 45, MCS11)



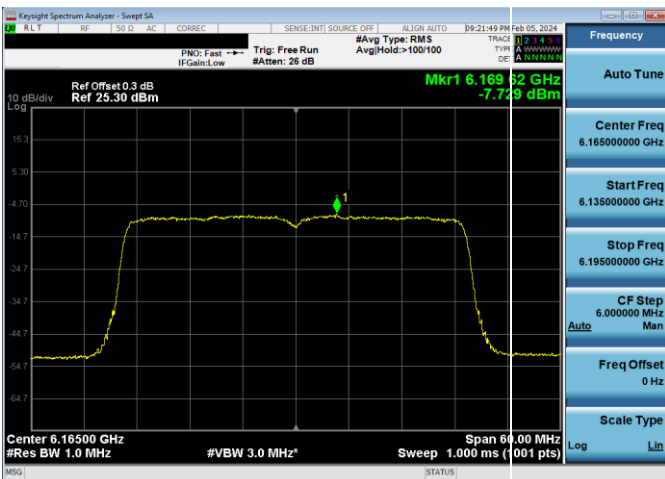
Plot 7-614. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (40MHz 802.11ax (UNII Band 5) - Ch. 43, MCS11)



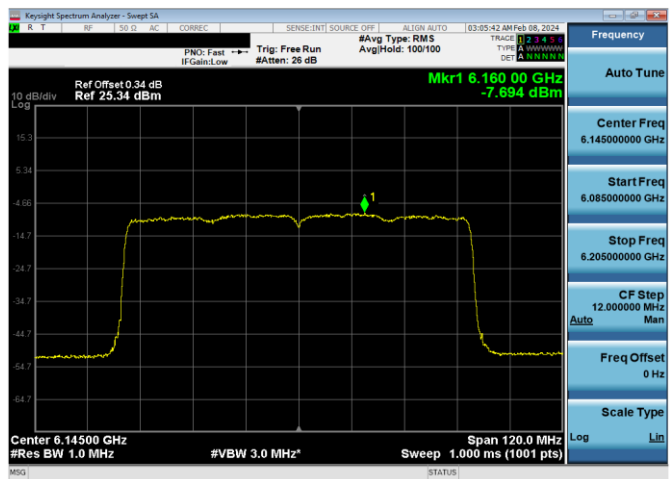
Plot 7-612. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (20MHz 802.11ax (UNII Band 5) - Ch. 45, MCS11)



Plot 7-615. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (80MHz 802.11ax (UNII Band 5) - Ch. 39, MCS11)

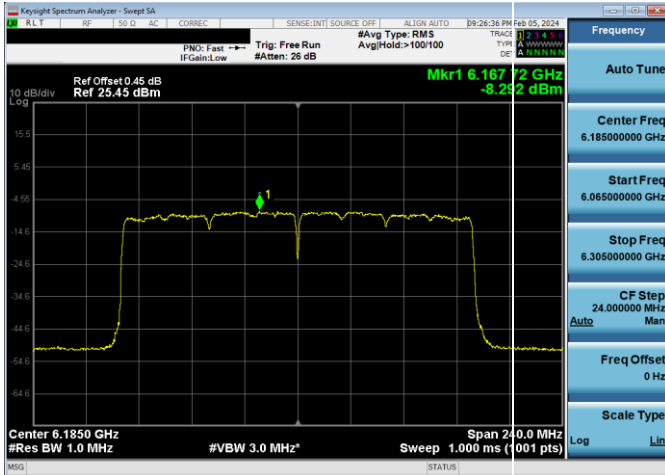


Plot 7-613. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (40MHz 802.11ax (UNII Band 5) - Ch. 43, MCS11)

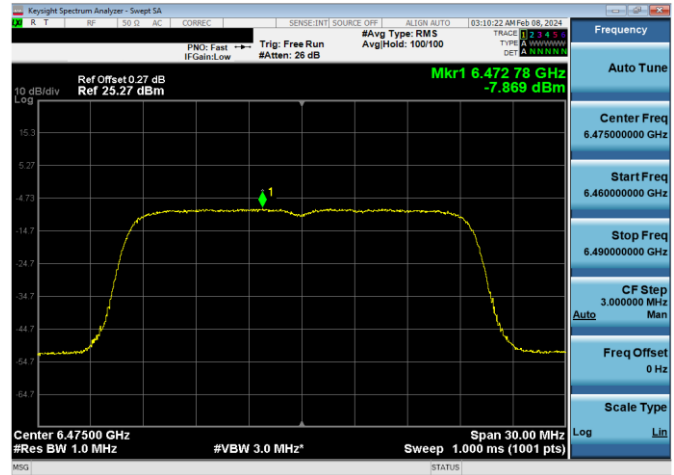


Plot 7-616. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (80MHz 802.11ax (UNII Band 5) - Ch. 39, MCS11)

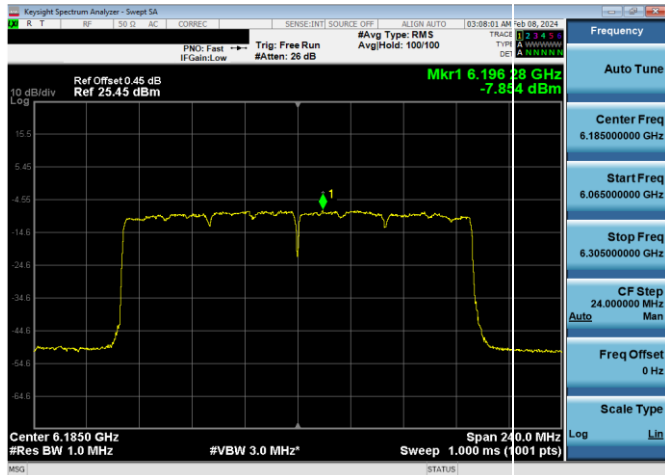
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 228 of 567



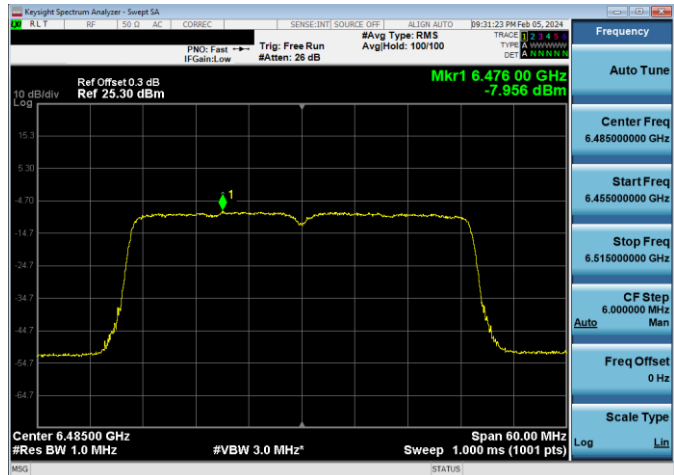
Plot 7-617. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



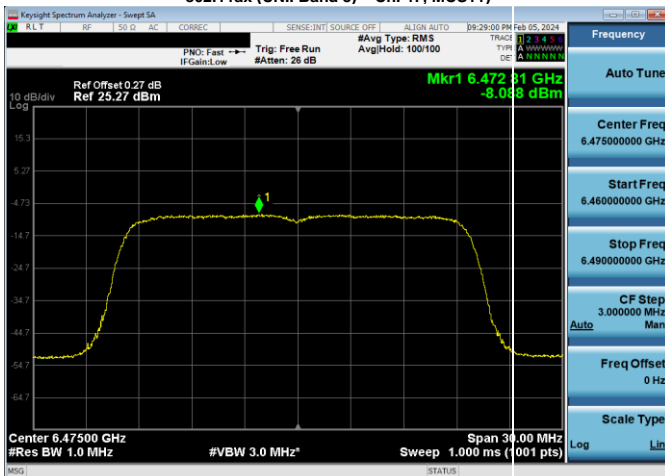
Plot 7-620. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS11)



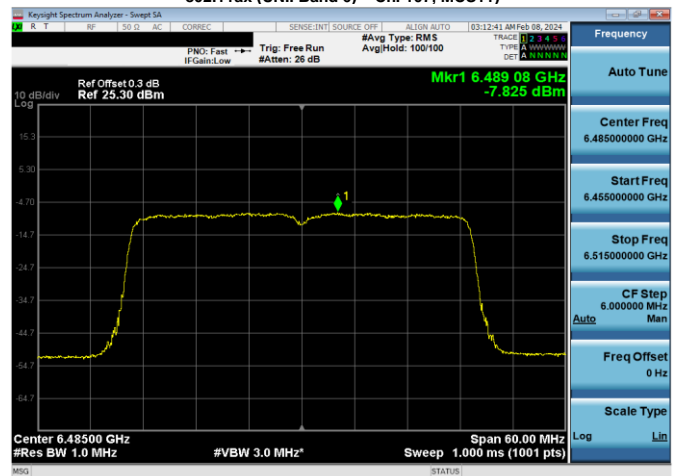
Plot 7-618. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



Plot 7-621. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)

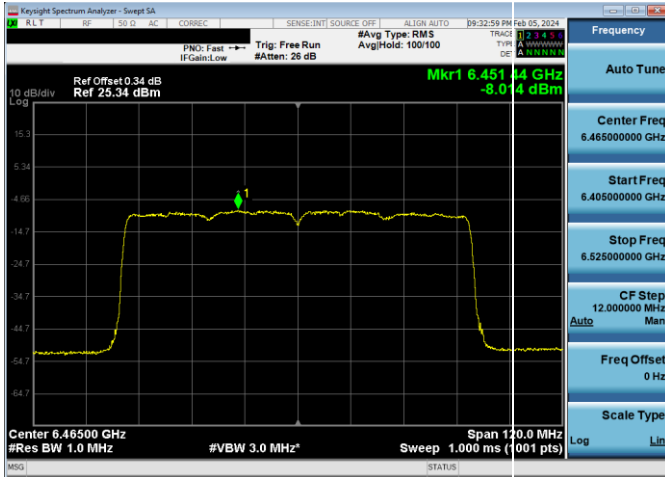


Plot 7-619. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (20MHz 802.11ax (UNII Band 6) – Ch. 105, MCS11)

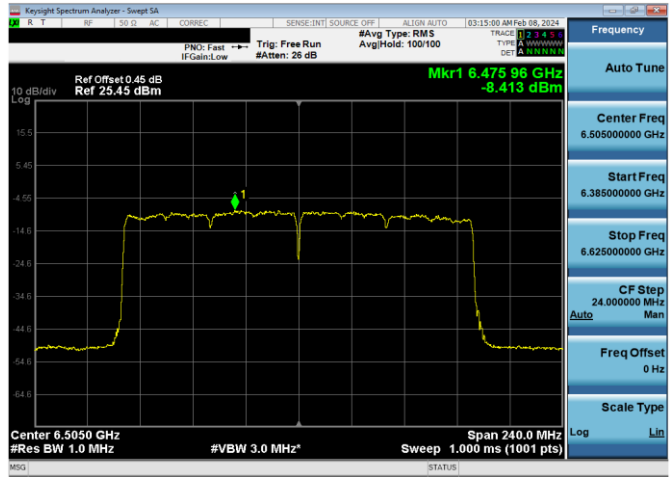


Plot 7-622. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (40MHz 802.11ax (UNII Band 6) – Ch. 107, MCS11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 229 of 567



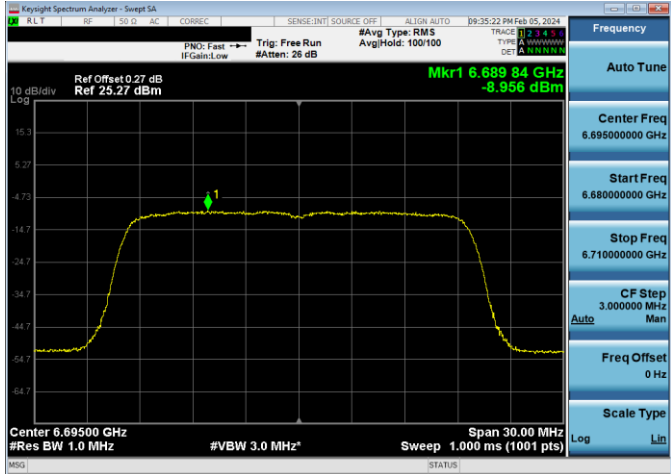
Plot 7-623. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)



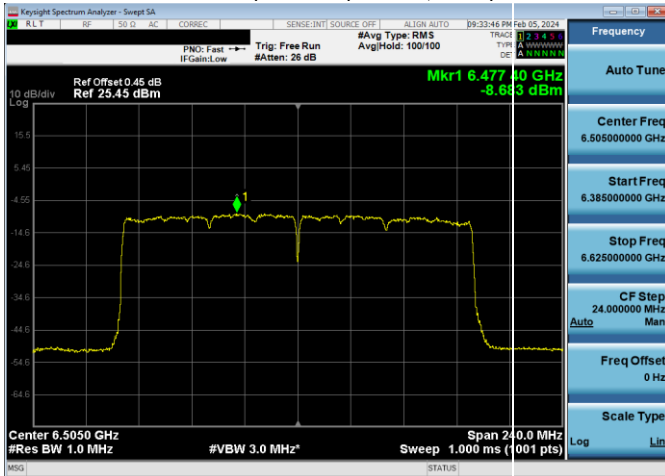
Plot 7-626. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)



Plot 7-624. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (80MHz 802.11ax (UNII Band 6) – Ch. 103, MCS11)



Plot 7-627. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)

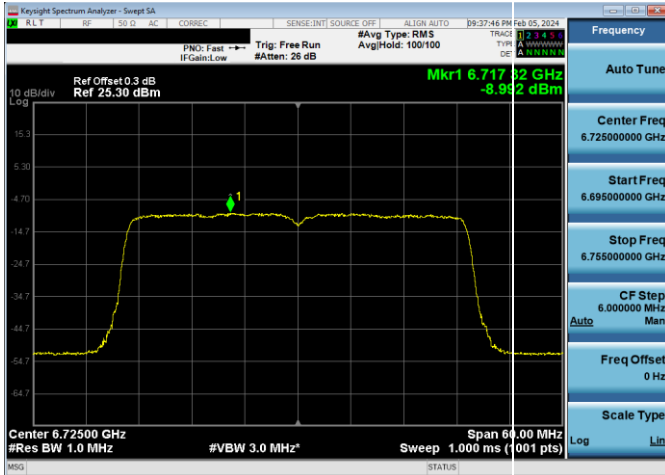


Plot 7-625. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (160MHz 802.11ax (UNII Band 6) – Ch. 111, MCS11)

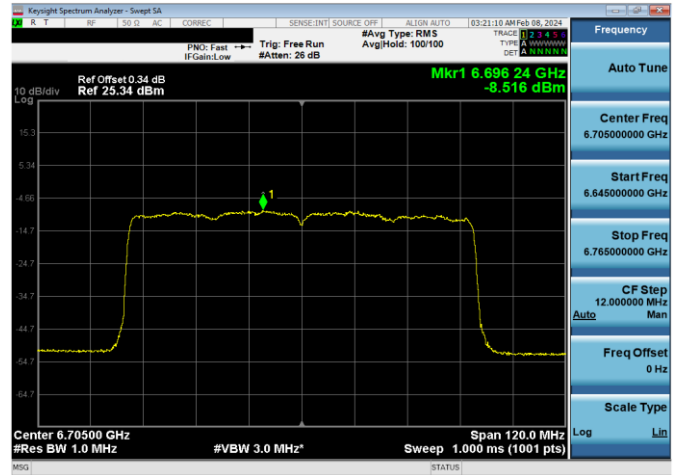


Plot 7-628. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)

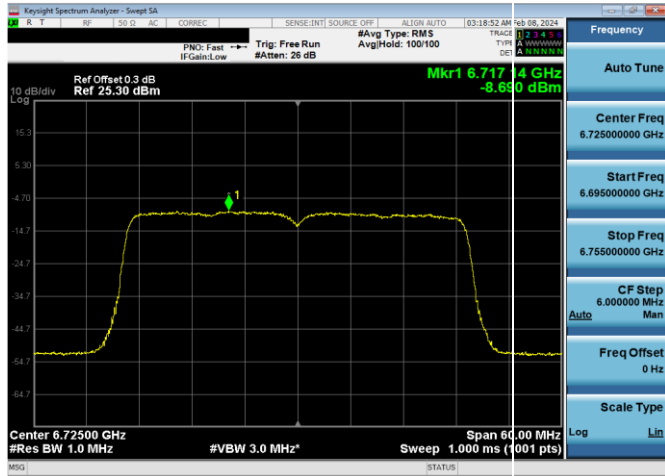
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 230 of 567



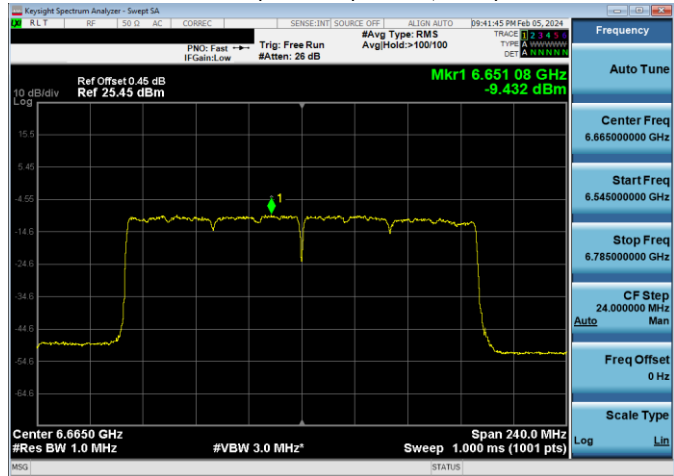
Plot 7-629. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



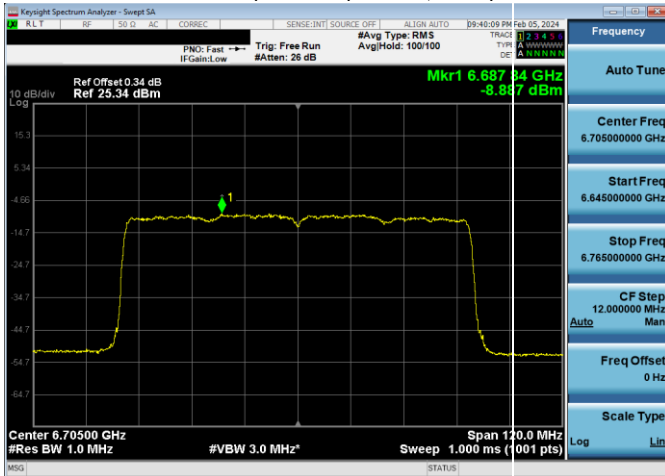
Plot 7-632. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



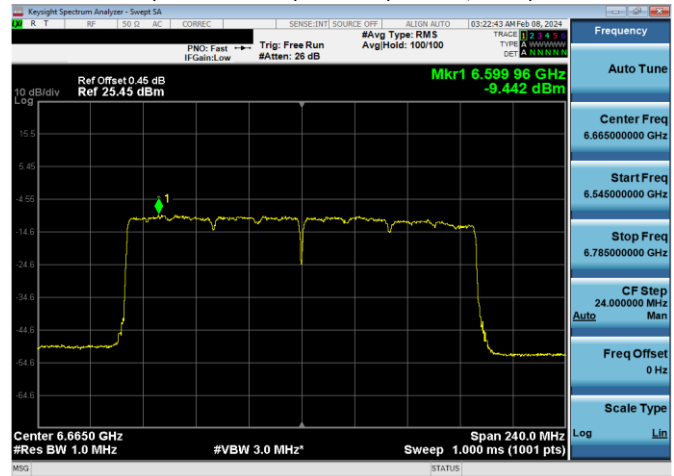
Plot 7-630. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)



Plot 7-633. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

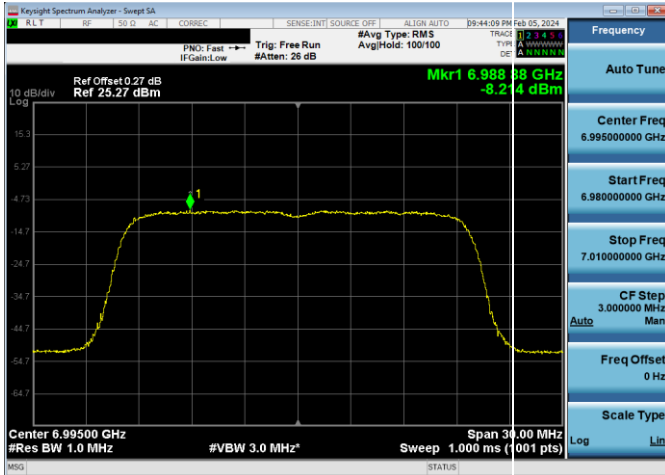


Plot 7-631. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)

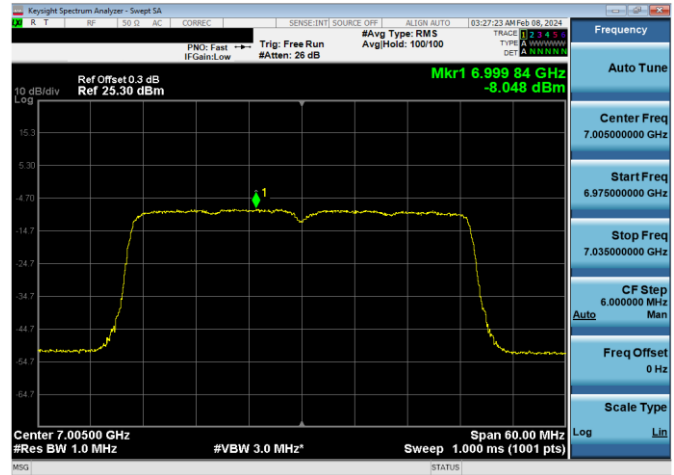


Plot 7-634. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

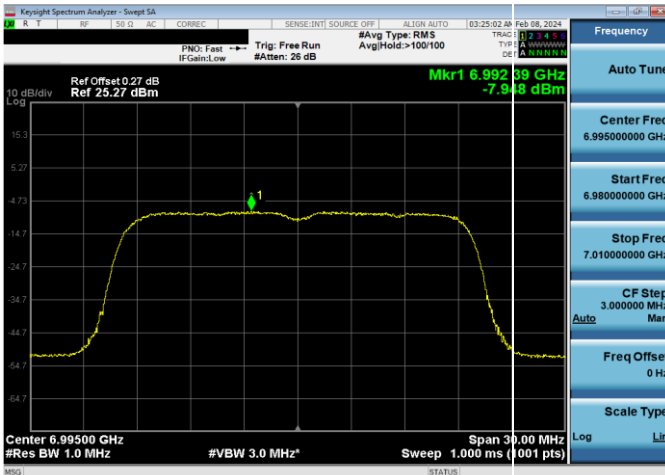
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 231 of 567



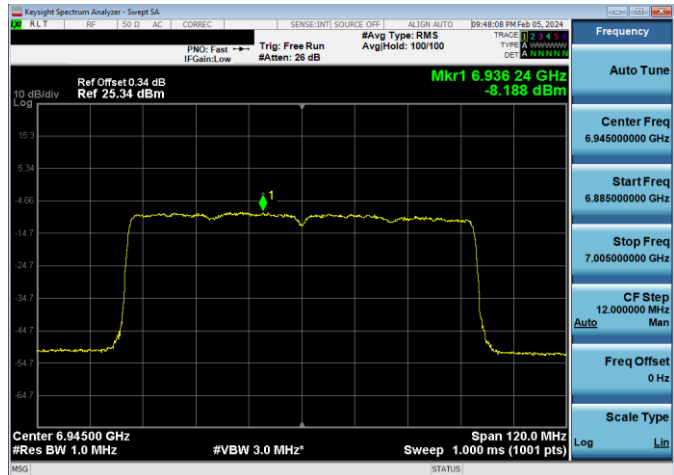
Plot 7-635. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)



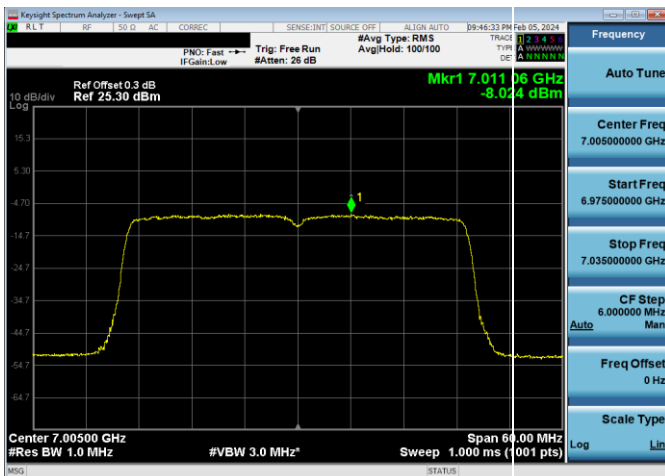
Plot 7-638. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS11)



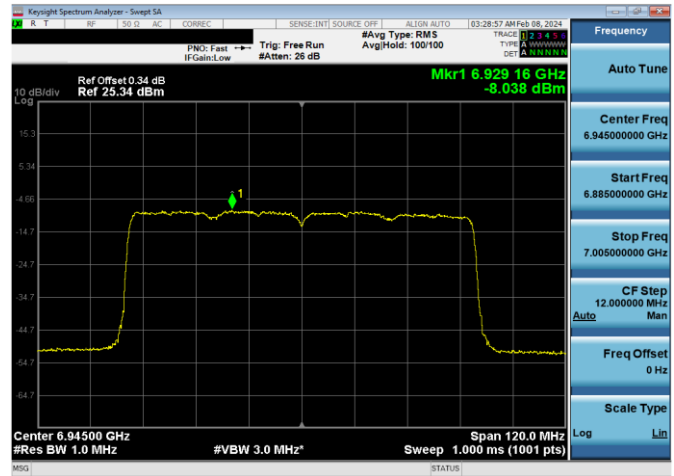
Plot 7-636. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (20MHz 802.11ax (UNII Band 8) – Ch. 209, MCS11)



Plot 7-639. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (80MHz 802.11ax (UNII Band 8) – Ch. 199, MCS11)



Plot 7-637. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (40MHz 802.11ax (UNII Band 8) – Ch. 211, MCS11)

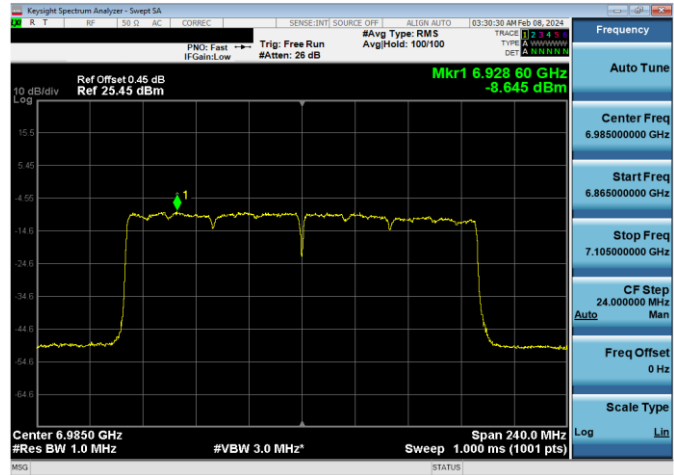


Plot 7-640. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (80MHz 802.11ax (UNII Band 8) – Ch. 199, MCS11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 232 of 567



Plot 7-641. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF5B (160MHz 802.11ax (UNII Band 8) – Ch. 207, MCS11)



Plot 7-642. Power Spectral Density Plot LPI CDD/SDM Diversity Antenna WF7 (160MHz 802.11ax (UNII Band 8) – Ch. 207, MCS11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 233 of 567

	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [MHz]	Antenna WF8 Measured Power Density [dBm/MHz]	Antenna WF7 Measured Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	ax (20MHz)	SDM	48/51.6 (MCS2)	5.58	5.13	8.37	1.90	10.28	17	-6.72
	6175	45	ax (20MHz)	SDM	48/51.6 (MCS2)	5.78	5.46	8.63	1.90	10.53	17	-6.47
	6415	93	ax (20MHz)	SDM	48/51.6 (MCS2)	5.67	5.92	8.81	1.90	10.71	17	-6.29
	5965	3	ax (40MHz)	SDM	98/103.2 (MCS2)	2.46	2.50	5.49	1.90	7.40	17	-9.60
	6165	43	ax (40MHz)	SDM	98/103.2 (MCS2)	2.79	2.93	5.87	1.90	7.77	17	-9.23
	6405	91	ax (40MHz)	SDM	98/103.2 (MCS2)	2.69	2.80	5.75	1.90	7.66	17	-9.34
	5985	7	ax (80MHz)	SDM	204/216.2 (MCS2)	-0.30	-0.20	2.76	1.90	4.66	17	-12.34
	6145	39	ax (80MHz)	SDM	204/216.2 (MCS2)	-0.25	-0.20	2.79	1.90	4.69	17	-12.31
	6385	87	ax (80MHz)	SDM	204/216.2 (MCS2)	0.18	0.17	3.19	1.90	5.09	17	-11.91
	6025	15	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-3.21	-3.25	-0.22	1.90	1.69	17	-15.31
	6181	47	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-2.81	-3.35	-0.06	1.90	1.84	17	-15.16
	6345	79	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-3.30	-3.18	-0.23	1.90	1.68	17	-15.32
	6535	117	ax (20MHz)	SDM	48/51.6 (MCS2)	5.21	5.39	8.31	2.58	10.88	17	-6.12
	6695	149	ax (20MHz)	SDM	48/51.6 (MCS2)	5.76	5.51	8.64	2.58	11.22	17	-5.78
6875	181	ax (20MHz)	SDM	48/51.6 (MCS2)	5.29	5.11	8.21	2.58	10.79	17	-6.21	
6565	123	ax (40MHz)	SDM	98/103.2 (MCS2)	2.12	2.50	5.32	2.58	7.90	17	-9.10	
6725	155	ax (40MHz)	SDM	98/103.2 (MCS2)	2.50	2.71	5.61	2.58	8.19	17	-8.81	
6845	179	ax (40MHz)	SDM	98/103.2 (MCS2)	2.34	1.93	5.15	2.58	7.72	17	-9.28	
6545	135	ax (80MHz)	SDM	204/216.2 (MCS2)	-0.50	-0.06	2.73	2.58	5.31	17	-11.69	
6705	151	ax (80MHz)	SDM	204/216.2 (MCS2)	-0.54	-0.15	2.67	2.58	5.25	17	-11.75	
6865	167	ax (80MHz)	SDM	204/216.2 (MCS2)	-0.46	-0.20	2.68	2.58	5.26	17	-11.74	
6665	143	ax (160MHz)	SDM	367.5/432.4 (MCS2)	-4.00	-3.99	-0.99	2.58	1.59	17	-15.41	

Table 7-158. Power Spectral Density Measurements CDD/SDM Diversity Standard Power (Low Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [MHz]	Antenna WF8 Measured Power Density [dBm/MHz]	Antenna WF7 Measured Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]
Band 5	5955	1	ax (20MHz)	SDM	98/103.2 (MCS4)	5.68	5.43	8.57	1.90	10.47	17	-6.53
	6175	45	ax (20MHz)	SDM	98/103.2 (MCS4)	6.00	5.60	8.81	1.90	10.72	17	-6.28
	6415	93	ax (20MHz)	SDM	98/103.2 (MCS4)	5.95	6.05	9.01	1.90	10.91	17	-6.09
	5965	3	ax (40MHz)	SDM	196/206.5 (MCS4)	2.76	2.60	5.69	1.90	7.59	17	-9.41
	6165	43	ax (40MHz)	SDM	196/206.5 (MCS4)	2.98	3.05	6.03	1.90	7.93	17	-9.07
	6405	91	ax (40MHz)	SDM	196/206.5 (MCS4)	2.82	3.14	5.99	1.90	7.90	17	-9.10
	5985	7	ax (80MHz)	SDM	408/432.4 (MCS4)	-0.27	-0.19	2.78	1.90	4.68	17	-12.32
	6145	39	ax (80MHz)	SDM	408/432.4 (MCS4)	-0.08	-0.05	2.95	1.90	4.85	17	-12.15
	6385	87	ax (80MHz)	SDM	408/432.4 (MCS4)	0.16	0.09	3.13	1.90	5.04	17	-11.96
	6025	15	ax (160MHz)	SDM	735/864.7 (MCS4)	-2.73	-3.23	0.03	1.90	1.94	17	-15.06
	6181	47	ax (160MHz)	SDM	735/864.7 (MCS4)	-2.48	-2.85	0.35	1.90	2.25	17	-14.75
	6345	79	ax (160MHz)	SDM	735/864.7 (MCS4)	-2.91	-3.27	-0.08	1.90	1.83	17	-15.17
	6535	117	ax (20MHz)	SDM	98/103.2 (MCS4)	5.42	5.42	8.43	2.58	11.00	17	-6.00
	6695	149	ax (20MHz)	SDM	98/103.2 (MCS4)	6.14	6.14	9.15	2.58	11.73	17	-5.27
6875	181	ax (20MHz)	SDM	98/103.2 (MCS4)	5.47	5.47	8.48	2.58	11.06	17	-5.94	
6565	123	ax (40MHz)	SDM	196/206.5 (MCS4)	2.55	2.55	5.56	2.58	8.14	17	-8.86	
6725	155	ax (40MHz)	SDM	196/206.5 (MCS4)	2.90	2.90	5.91	2.58	8.48	17	-8.52	
6845	179	ax (40MHz)	SDM	196/206.5 (MCS4)	2.65	2.23	5.45	2.58	8.03	17	-8.97	
6545	135	ax (80MHz)	SDM	408/432.4 (MCS4)	-0.31	0.23	2.98	2.58	5.56	17	-11.44	
6705	151	ax (80MHz)	SDM	408/432.4 (MCS4)	-0.41	0.03	2.82	2.58	5.40	17	-11.60	
6865	167	ax (80MHz)	SDM	408/432.4 (MCS4)	-0.39	-0.18	2.72	2.58	5.30	17	-11.70	
6665	143	ax (160MHz)	SDM	735/864.7 (MCS4)	-3.50	-3.71	-0.59	2.58	1.98	17	-15.02	

Table 7-159. Power Spectral Density Measurements CDD/SDM Diversity Standard Power (Mid Data Rate)

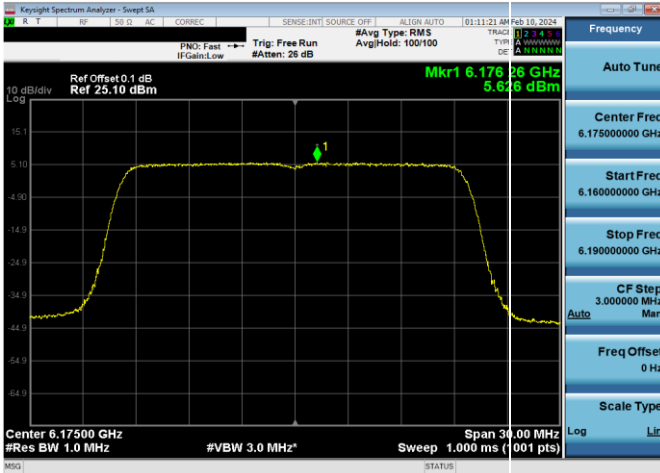
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 234 of 567

	Frequency [MHz]	Channel No.	802.11 Mode	Mode	Data Rate [MHz]	Antenna WF8 Measured Power Density [dBm/MHz]	Antenna WF7 Measured Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Gain [dBi]	e.i.r.p Density [dBm/MHz]	Max EIRP Density [dBm/MHz]	Margin [dB]	
Band 5	5955	1	ax (20MHz)	SDM	270/286.8 (MCS11)	5.42	5.08	8.26	1.90	10.17	17	-6.83	
	6175	45	ax (20MHz)	SDM	270/286.8 (MCS11)	5.98	5.50	8.76	1.90	10.66	17	-6.34	
	6415	93	ax (20MHz)	SDM	270/286.8 (MCS11)	6.03	6.06	9.05	1.90	10.96	17	-6.04	
	5965	3	ax (40MHz)	SDM	540/573.5 (MCS11)	2.44	2.46	5.46	1.90	7.36	17	-9.64	
	6165	43	ax (40MHz)	SDM	540/573.5 (MCS11)	3.01	2.90	5.97	1.90	7.87	17	-9.13	
	6405	91	ax (40MHz)	SDM	540/573.5 (MCS11)	2.97	2.86	5.92	1.90	7.83	17	-9.17	
	5985	7	ax (80MHz)	SDM	1134/1201 (MCS11)	-0.10	0.03	2.98	1.90	4.88	17	-12.12	
	6145	39	ax (80MHz)	SDM	1134/1201 (MCS11)	-0.24	-0.21	2.79	1.90	4.69	17	-12.31	
	6385	87	ax (80MHz)	SDM	1134/1201 (MCS11)	0.24	-0.13	3.07	1.90	4.97	17	-12.03	
	6025	15	ax (160MHz)	SDM	2041.7/2402 (MCS11)	-3.21	-3.49	-0.34	1.90	1.57	17	-15.43	
	6181	47	ax (160MHz)	SDM	2041.7/2402 (MCS11)	-2.48	-2.94	0.30	1.90	2.21	17	-14.79	
	6345	79	ax (160MHz)	SDM	2041.7/2402 (MCS11)	-3.03	-3.30	-0.15	1.90	1.75	17	-15.25	
	Band 7	6535	117	ax (20MHz)	SDM	270/286.8 (MCS11)	5.49	5.21	8.36	2.58	10.94	17	-6.06
		6695	149	ax (20MHz)	SDM	270/286.8 (MCS11)	5.96	5.43	8.72	2.58	11.29	17	-5.71
6875		181	ax (20MHz)	SDM	270/286.8 (MCS11)	5.35	5.12	8.25	2.58	10.82	17	-6.18	
6565		123	ax (40MHz)	SDM	540/573.5 (MCS11)	2.49	2.72	5.62	2.58	8.19	17	-8.81	
6725		155	ax (40MHz)	SDM	540/573.5 (MCS11)	2.64	2.93	5.80	2.58	8.37	17	-8.63	
6845		179	ax (40MHz)	SDM	540/573.5 (MCS11)	2.48	1.96	5.24	2.58	7.82	17	-9.18	
6545		135	ax (80MHz)	SDM	1134/1201 (MCS11)	-0.53	-0.15	2.67	2.58	5.25	17	-11.75	
6705		151	ax (80MHz)	SDM	1134/1201 (MCS11)	-0.31	-0.18	2.77	2.58	5.34	17	-11.66	
6865		167	ax (80MHz)	SDM	1134/1201 (MCS11)	-0.44	-0.44	2.57	2.58	5.14	17	-11.86	
6665		143	ax (160MHz)	SDM	2041.7/2402 (MCS11)	-3.67	-3.86	-0.76	2.58	1.82	17	-15.18	

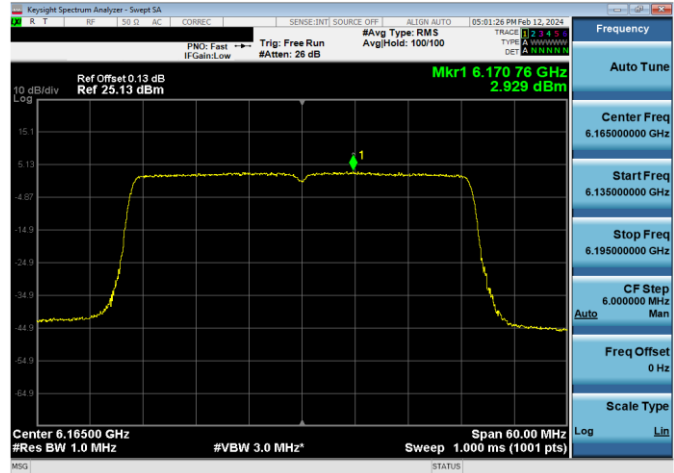
Table 7-160. Power Spectral Density Measurements CDD/SDM Diversity Standard Power (High Data Rate)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 235 of 567

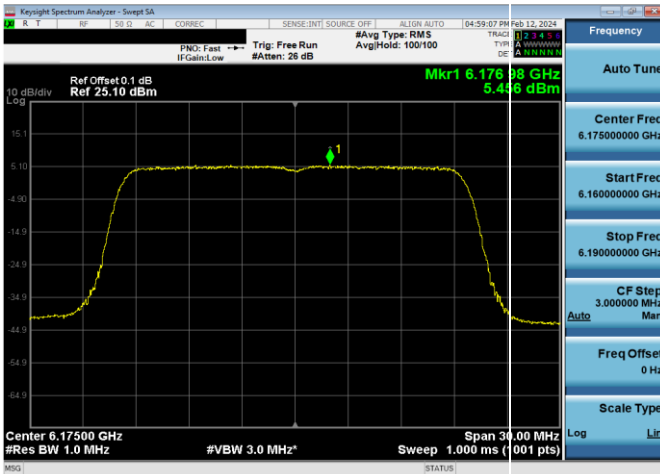
Low Data Rate



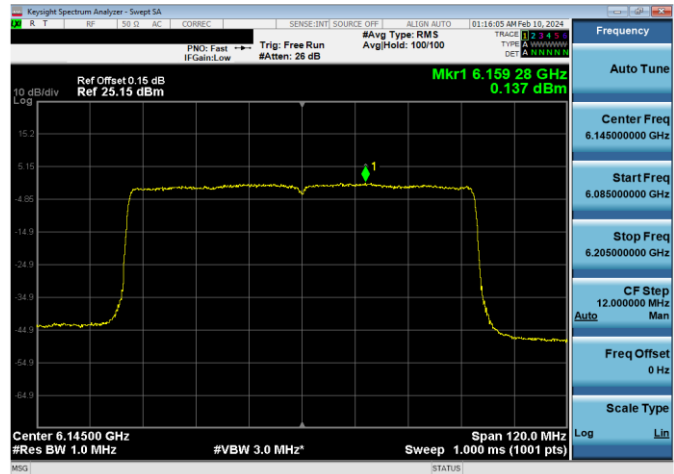
Plot 7-643. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS2)



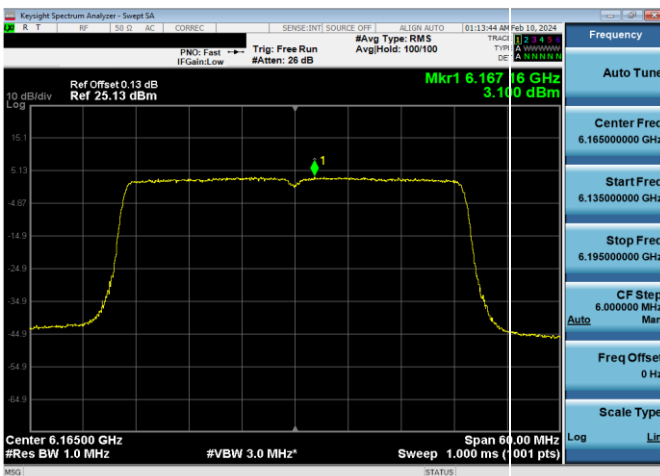
Plot 7-646. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS2)



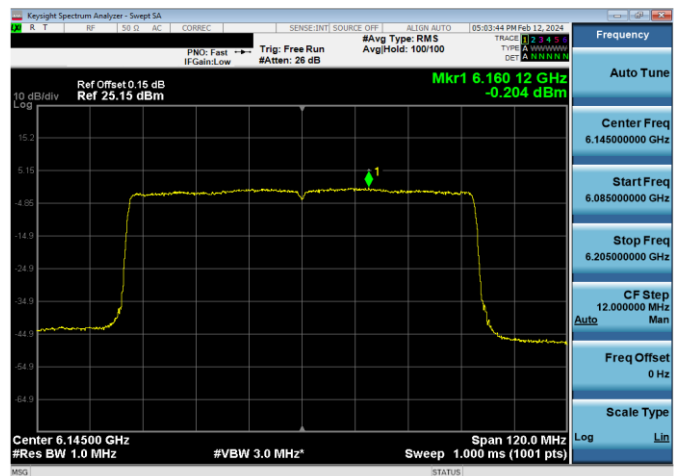
Plot 7-644. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS2)



Plot 7-647. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS2)

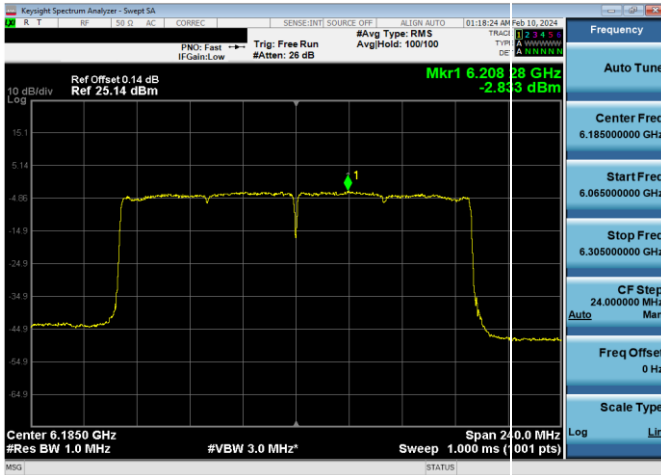


Plot 7-645. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS2)

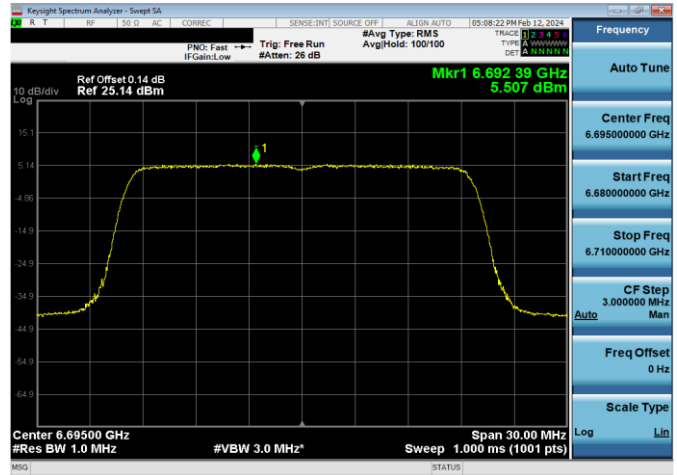


Plot 7-648. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS2)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 236 of 567



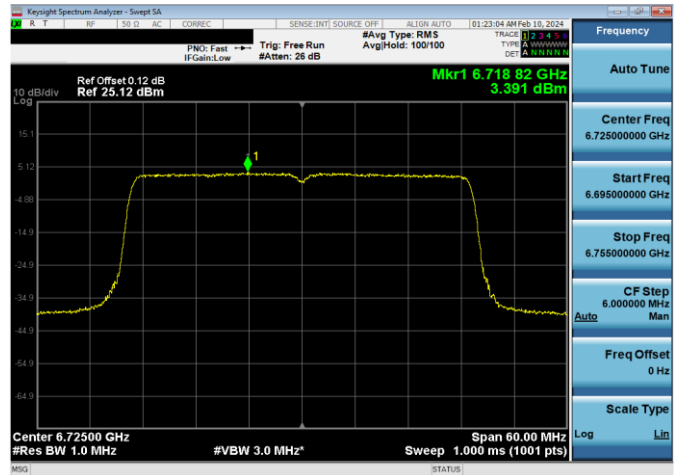
Plot 7-649. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS2)



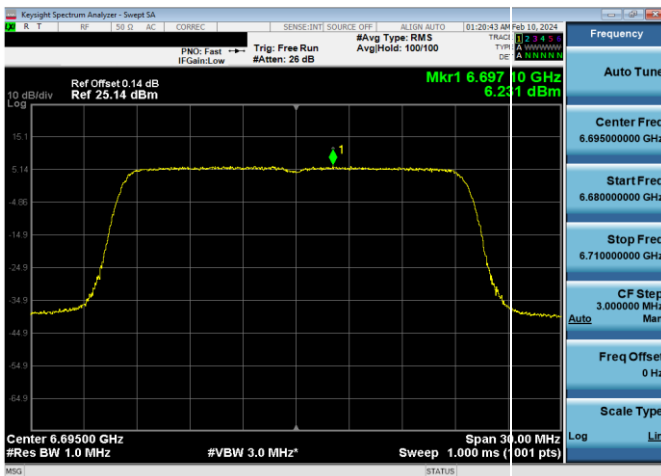
Plot 7-652. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS2)



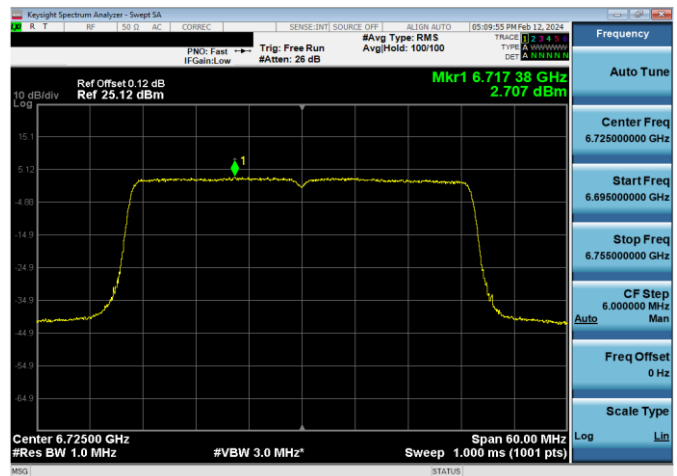
Plot 7-650. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS2)



Plot 7-653. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS2)

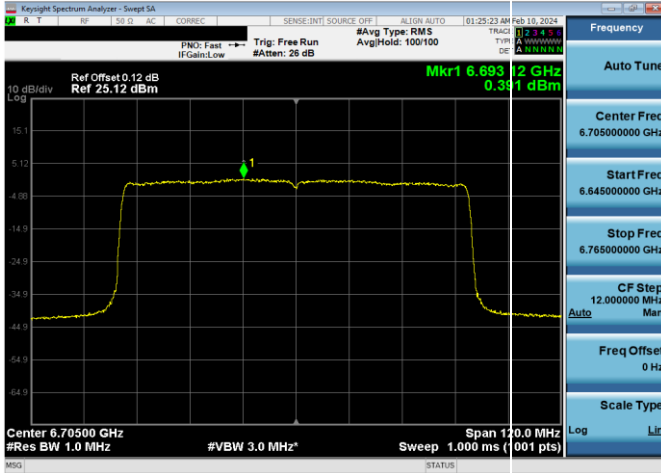


Plot 7-651. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS2)

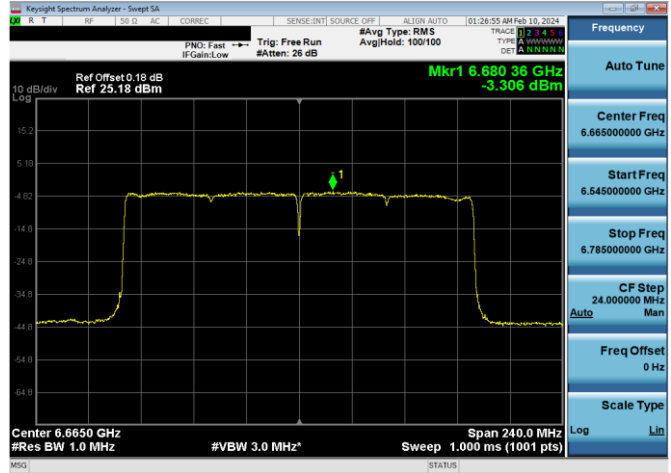


Plot 7-654. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS2)

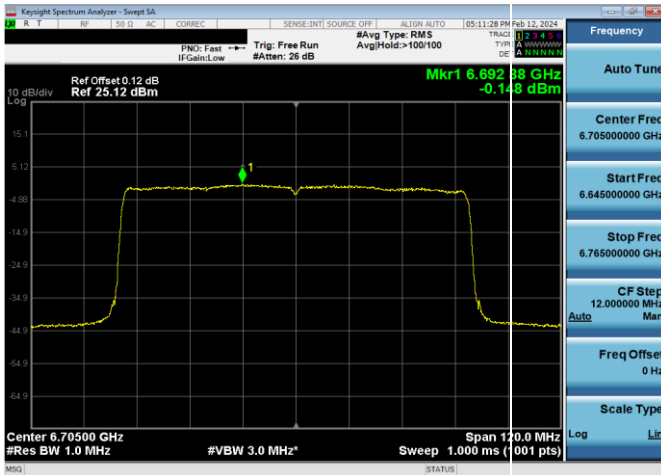
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 237 of 567



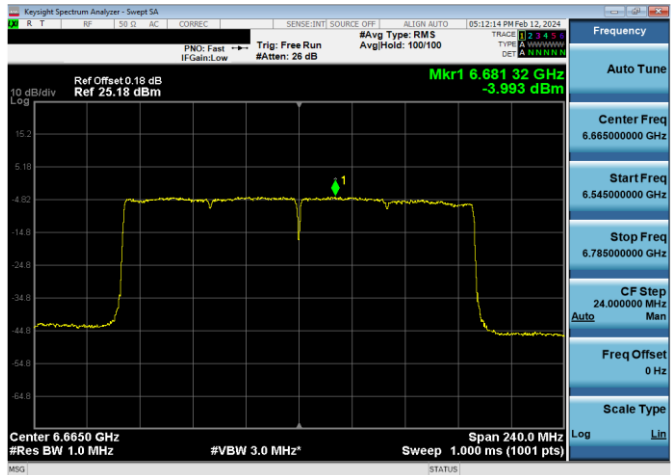
Plot 7-655. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS2)



Plot 7-657. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS2)



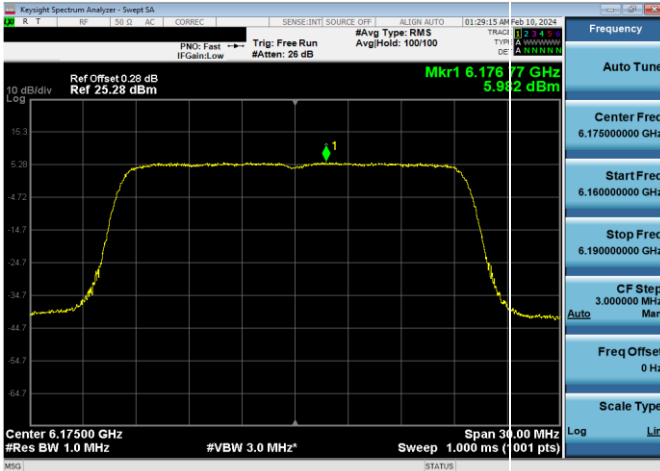
Plot 7-656. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS2)



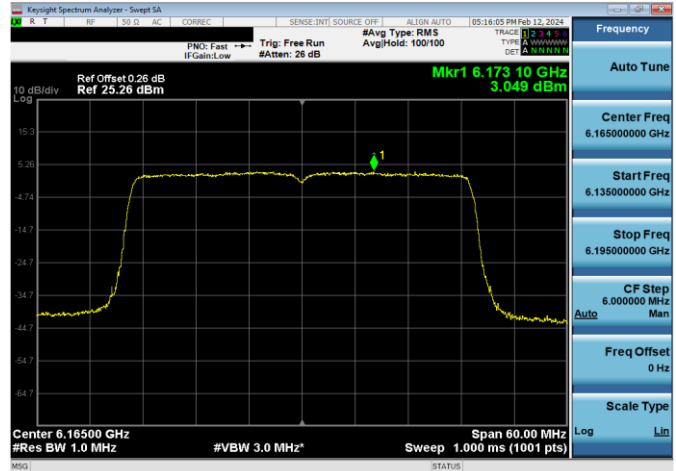
Plot 7-658. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS2)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 238 of 567

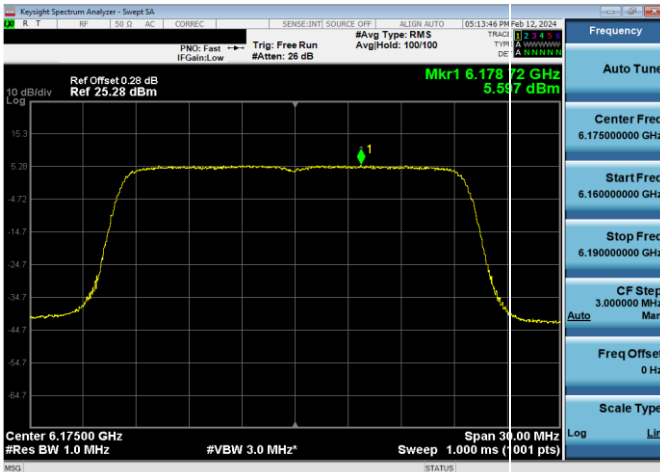
Mid Data Rate



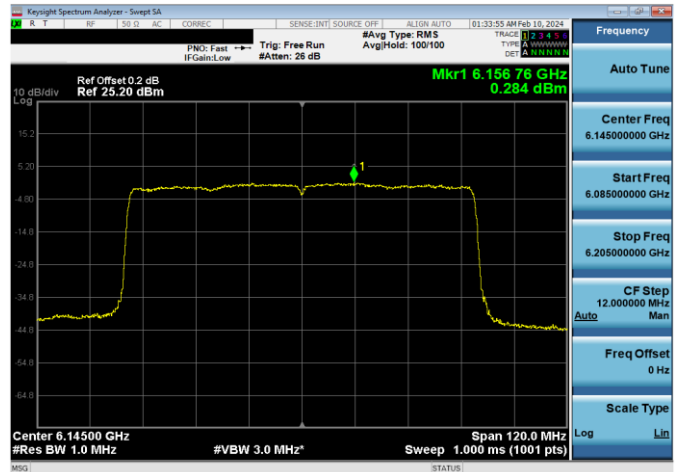
Plot 7-659. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS4)



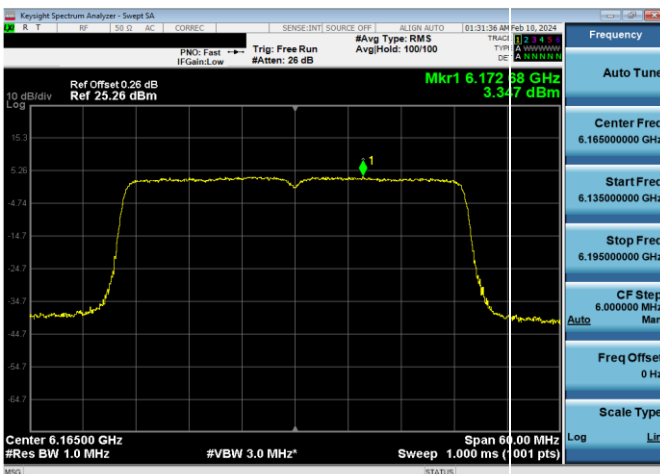
Plot 7-662. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS4)



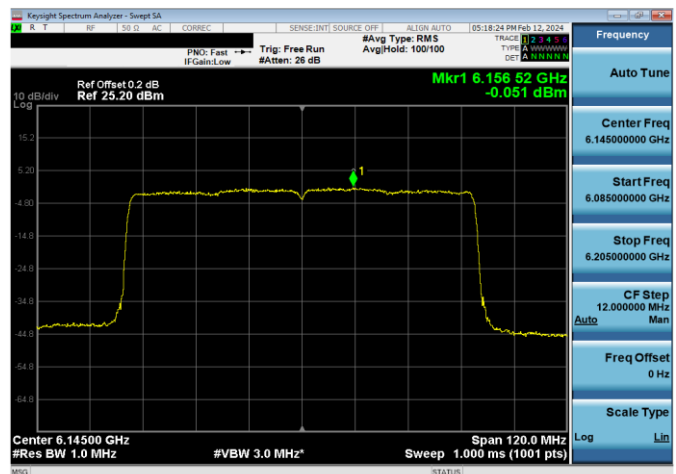
Plot 7-660. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS4)



Plot 7-663. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS4)

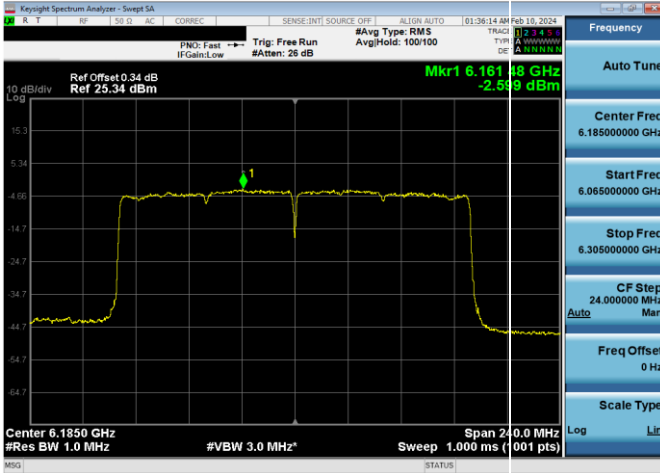


Plot 7-661. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS4)

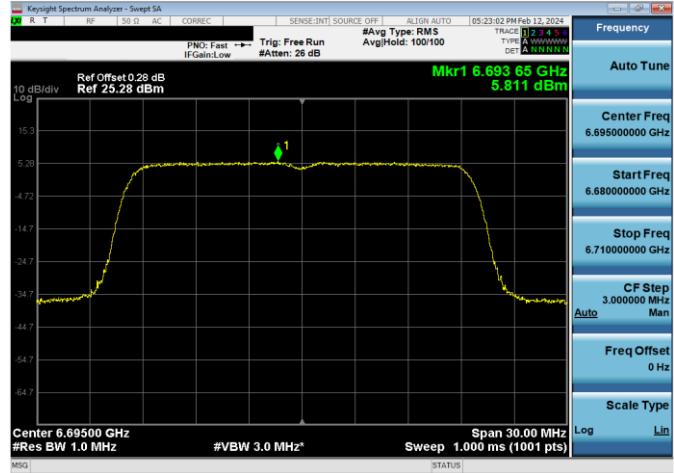


Plot 7-664. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS4)

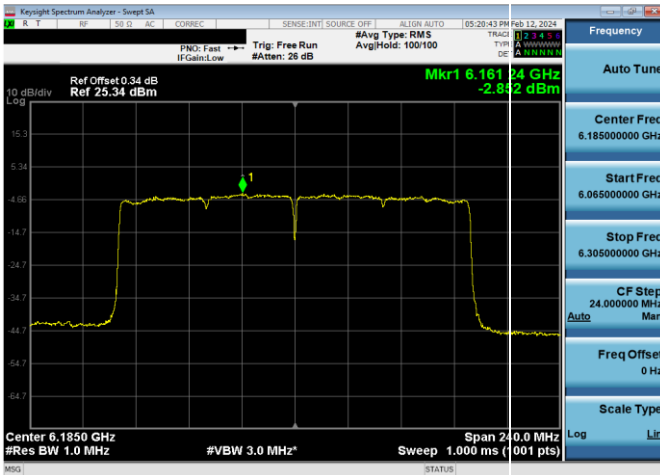
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 239 of 567



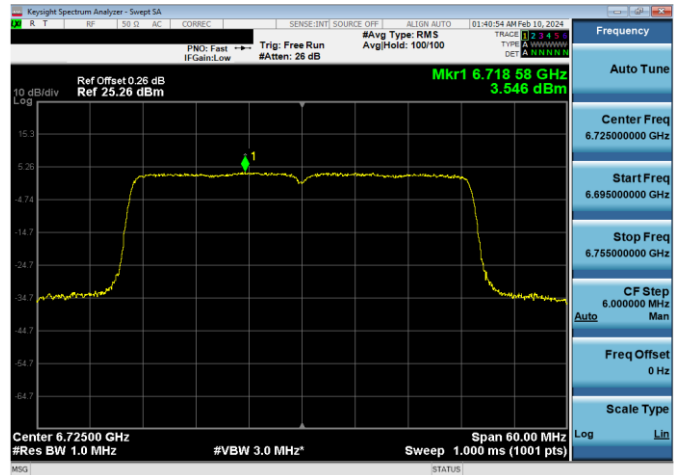
Plot 7-665. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (160MHz 802.11ax (UNII Band 5) - Ch. 47, MCS4)



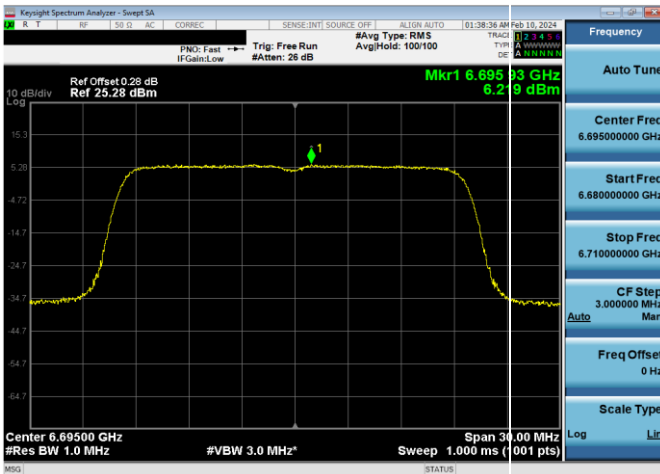
Plot 7-668. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (20MHz 802.11ax (UNII Band 7) - Ch. 149, MCS4)



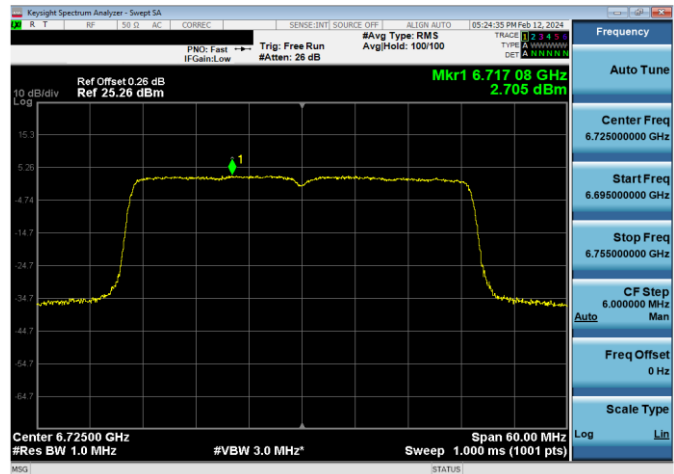
Plot 7-666. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (160MHz 802.11ax (UNII Band 5) - Ch. 47, MCS4)



Plot 7-669. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (40MHz 802.11ax (UNII Band 7) - Ch. 155, MCS4)

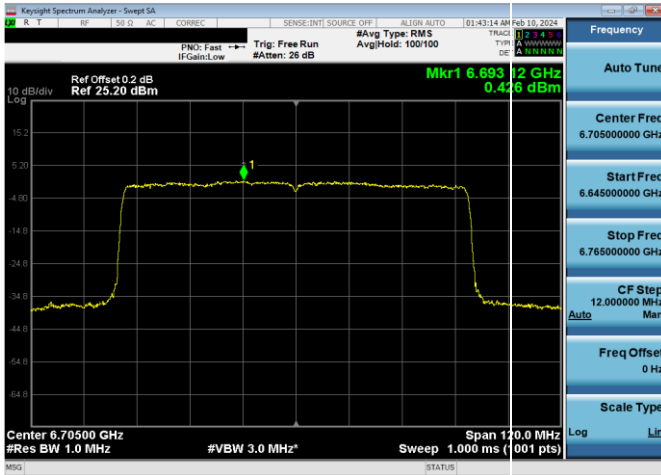


Plot 7-667. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (20MHz 802.11ax (UNII Band 7) - Ch. 149, MCS4)

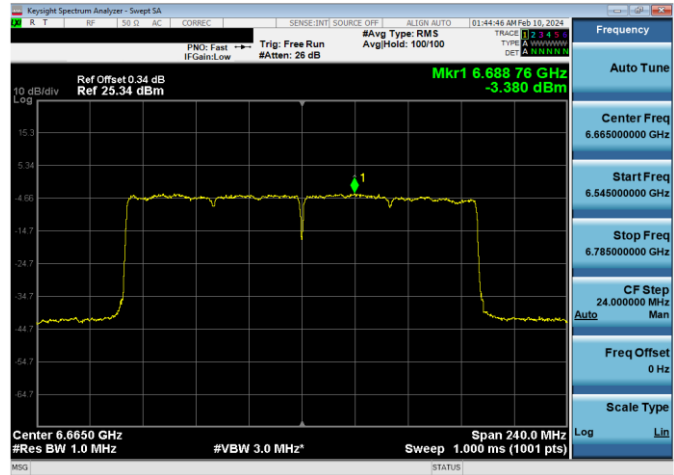


Plot 7-670. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (40MHz 802.11ax (UNII Band 7) - Ch. 155, MCS4)

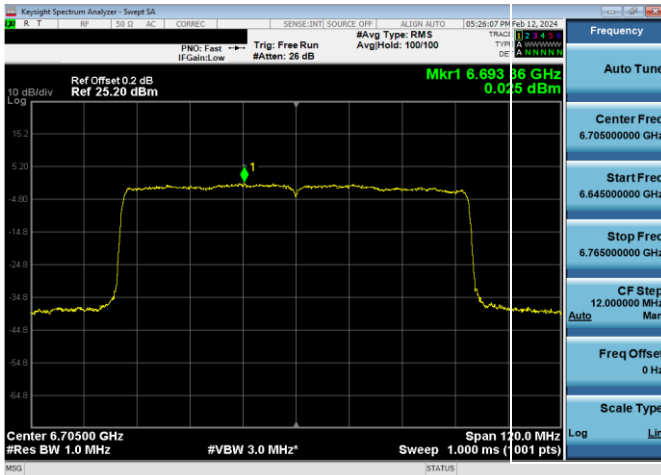
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 240 of 567



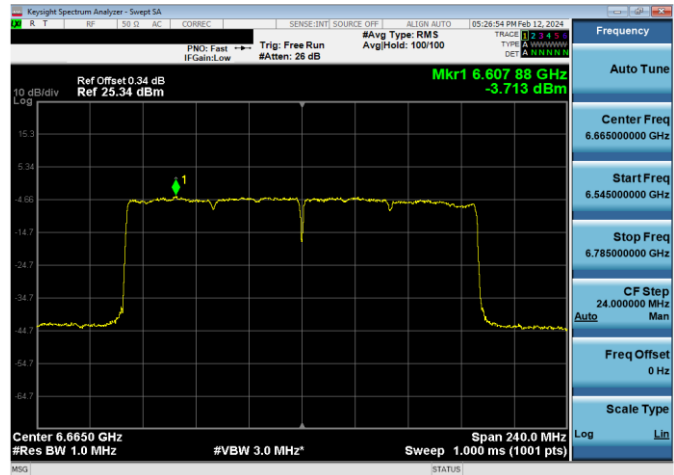
Plot 7-671. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS4)



Plot 7-673. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS4)



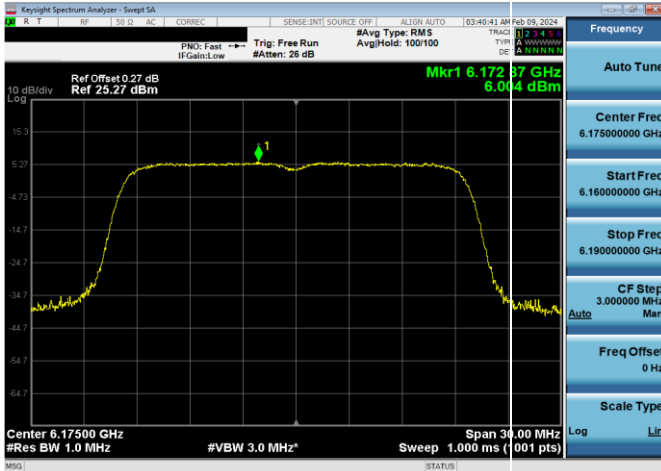
Plot 7-672. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS4)



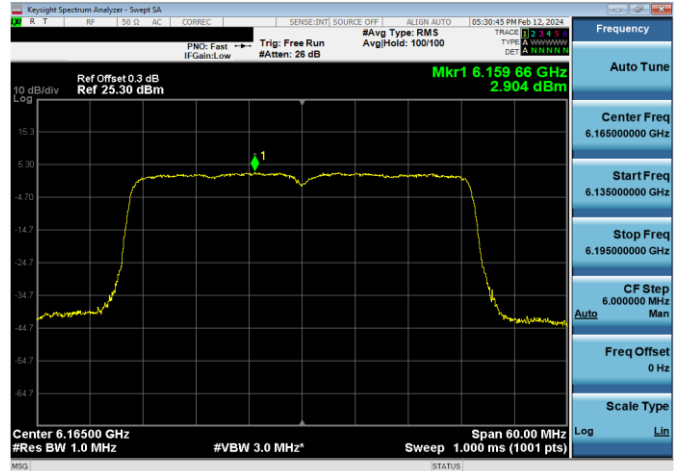
Plot 7-674. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS4)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 241 of 567

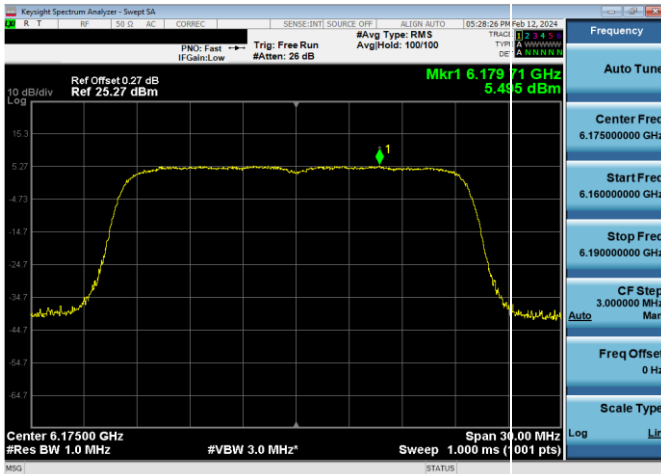
High Data Rate



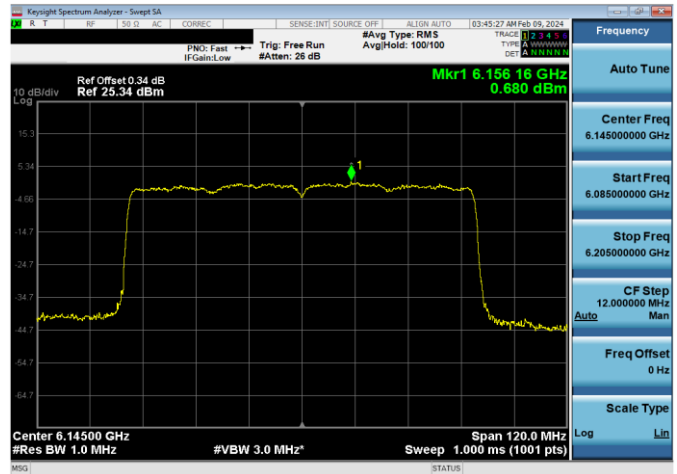
Plot 7-675. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



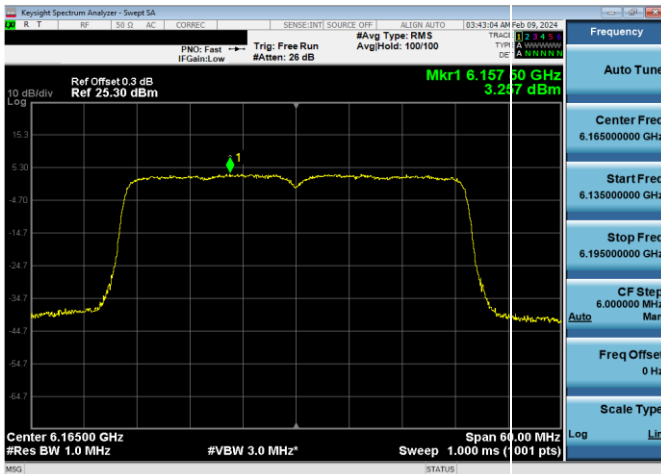
Plot 7-678. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)



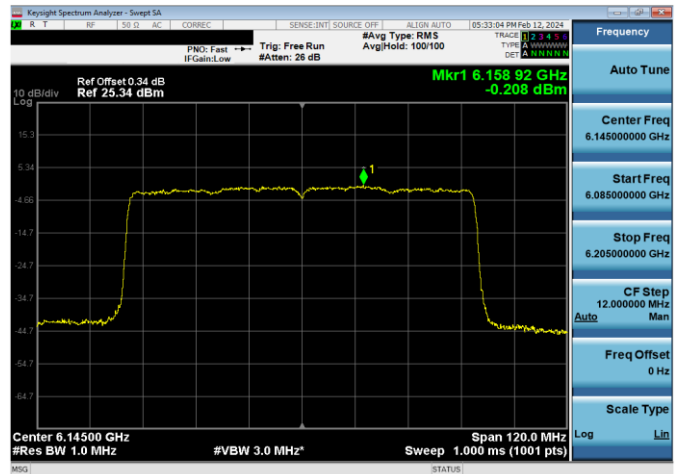
Plot 7-676. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (20MHz 802.11ax (UNII Band 5) – Ch. 45, MCS11)



Plot 7-679. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)



Plot 7-677. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (40MHz 802.11ax (UNII Band 5) – Ch. 43, MCS11)

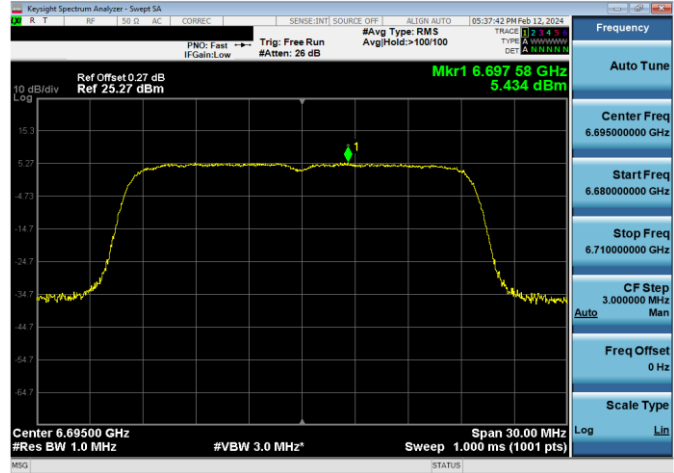


Plot 7-680. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (80MHz 802.11ax (UNII Band 5) – Ch. 39, MCS11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 242 of 567



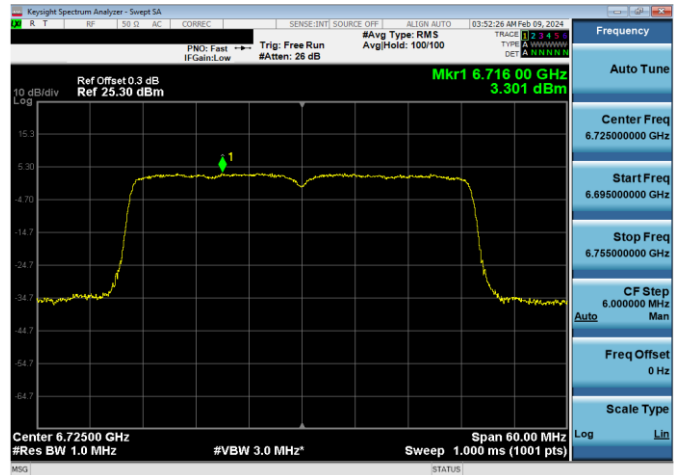
Plot 7-681. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



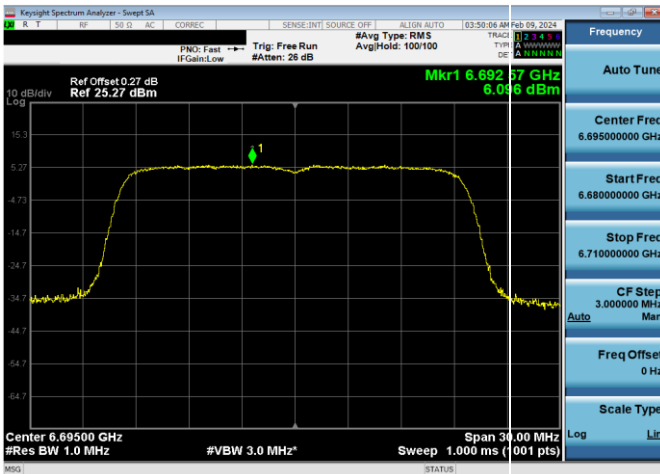
Plot 7-684. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



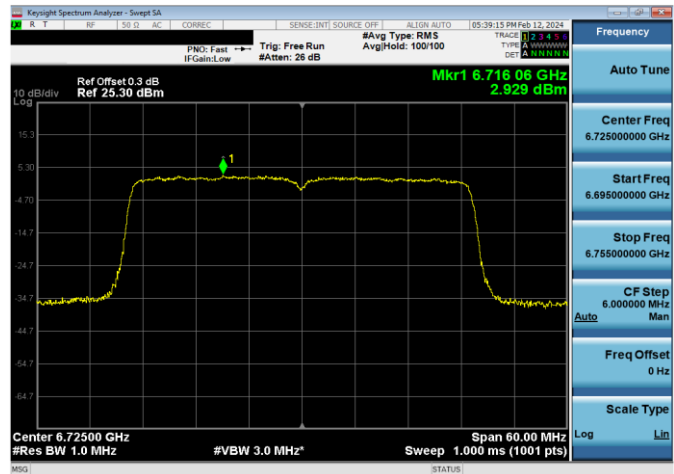
Plot 7-682. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (160MHz 802.11ax (UNII Band 5) – Ch. 47, MCS11)



Plot 7-685. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)

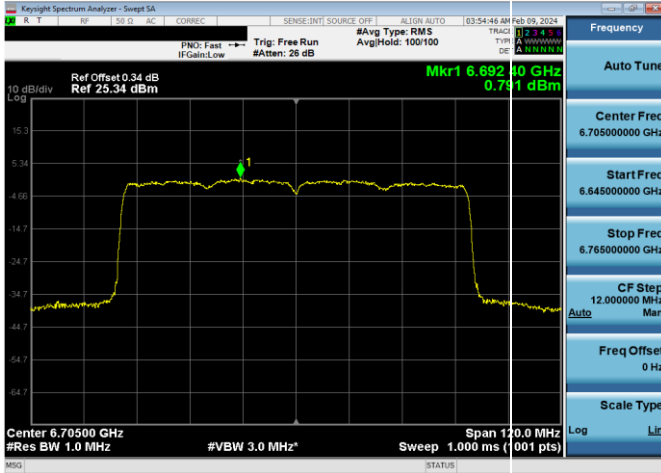


Plot 7-683. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (20MHz 802.11ax (UNII Band 7) – Ch. 149, MCS11)



Plot 7-686. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (40MHz 802.11ax (UNII Band 7) – Ch. 155, MCS11)

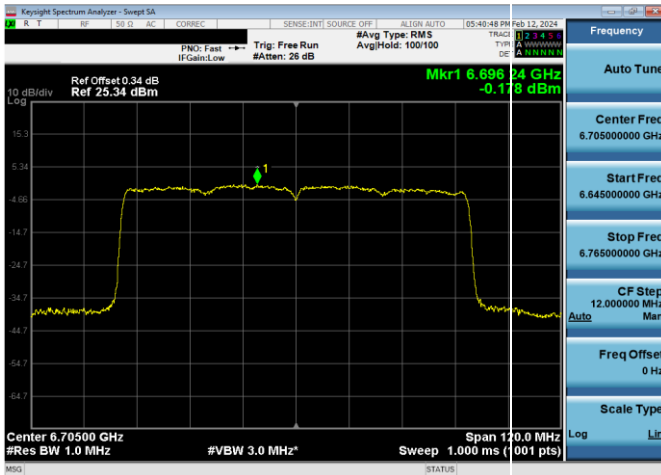
FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 243 of 567



Plot 7-687. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-689. Power Spectral Density Plot CDD/SDM Diversity Antenna WF5B Standard Power (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)



Plot 7-688. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (80MHz 802.11ax (UNII Band 7) – Ch. 151, MCS11)



Plot 7-690. Power Spectral Density Plot CDD/SDM Diversity Antenna WF7 Standard Power (160MHz 802.11ax (UNII Band 7) – Ch. 143, MCS11)

FCC ID: BCGA2836 IC: 579C-A2836		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270067-13-R1.BCG	Test Dates: 1/8/2024 - 04/05/2024	EUT Type: Tablet Device	Page 244 of 567

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna WF5B and Antenna WF8 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

For correlated signals, assuming the antenna gain is 1.7 dBi for Antenna WF5B and 1.7 dBi for Antenna WF8.

$$\begin{aligned} \text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.7/20} + 10^{0.6/20} / 2) \text{ dBi} \\ &= 1.7 \text{ dBi} \end{aligned}$$

For uncorrelated signals, assuming the antenna gain is 1.7 dBi for Antenna WF5B and 1.7 dBi for Antenna WF8.

$$\begin{aligned} \text{Directional gain} &= 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{4.7/10} + 10^{0.6/10} / 2) \text{ dBi} \\ &= 1.7 \text{ dBi} \end{aligned}$$

Sample CDD/SDM Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average conducted power spectral density was measured to be -8.34 dBm for Antenna WF5B and -8.33 dBm for Antenna WF8.

$$\begin{aligned} \text{Antenna WF5B} + \text{Antenna WF8} &= \text{CDD/SDM} \\ (-8.34 \text{ dBm} + -8.33 \text{ dBm}) &= (0.147 \text{ mW} + 0.146 \text{ mW}) = 0.293 \text{ mW} = -5.33 \text{ dBm} \end{aligned}$$

Sample e.i.r.p Power Spectral Density Calculation:

At 5955MHz in 802.11ax (20MHz BW) mode, the average CDD/SDM power density was calculated to be -5.33 dBm with directional gain of 1.7 dBi.

$$\begin{aligned} \text{e.i.r.p. Power Spectral Density(dBm)} &= \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)} \\ -5.33 \text{ dBm} + 1.7 \text{ dBi} &= -3.63 \text{ dBm} \end{aligned}$$

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7.5 In-Band Emissions – 802.11a/ax(SU)

§15.407(b)(7), RSS-248 [4.7.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was 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.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2
KDB 987594 D02 v01r01

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10- 2013.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - j) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

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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

None

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