

7.4.5 FCC CDD Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	16.77	16.91	19.85	23.98	-4.13
	5200	40	CDD	AVG	16.84	17.00	19.93	23.98	-4.05
	5240	48	CDD	AVG	16.77	16.85	19.82	23.98	-4.16
	5260	52	CDD	AVG	16.83	16.91	19.88	23.98	-4.10
	5300	60	CDD	AVG	16.80	16.91	19.87	23.98	-4.11
	5320	64	CDD	AVG	16.91	16.84	19.89	23.98	-4.09
	5500	100	CDD	AVG	17.00	16.90	19.96	23.98	-4.02
	5580	116	CDD	AVG	16.83	16.88	19.87	23.98	-4.11
	5700	140	CDD	AVG	17.00	16.89	19.96	23.98	-4.02
	5720	144	CDD	AVG	16.82	16.71	19.78	23.98	-4.20
	5745	149	CDD	AVG	19.46	19.35	22.42	30.00	-7.58
	5785	157	CDD	AVG	19.32	19.40	22.37	30.00	-7.63
	5825	165	CDD	AVG	19.21	19.50	22.37	30.00	-7.63

Table 7-50. FCC CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	16.20	16.26	19.24	23.98	-4.74
	5200	40	CDD	AVG	16.84	17.00	19.93	23.98	-4.05
	5240	48	CDD	AVG	17.00	16.98	20.00	23.98	-3.98
	5260	52	CDD	AVG	16.79	16.89	19.85	23.98	-4.13
	5300	60	CDD	AVG	16.93	17.00	19.98	23.98	-4.00
	5320	64	CDD	AVG	16.81	16.97	19.90	23.98	-4.08
	5500	100	CDD	AVG	16.34	16.44	19.40	23.98	-4.58
	5520	104	CDD	AVG	16.96	16.89	19.94	23.98	-4.04
	5580	116	CDD	AVG	17.00	16.98	20.00	23.98	-3.98
	5680	136	CDD	AVG	16.87	16.90	19.90	23.98	-4.08
	5700	140	CDD	AVG	15.35	15.40	18.39	23.98	-5.59
	5720	144	CDD	AVG	16.97	16.79	19.89	23.98	-4.09
	5745	149	CDD	AVG	19.50	19.39	22.46	30.00	-7.54
	5785	157	CDD	AVG	19.33	19.45	22.40	30.00	-7.60
	5825	165	CDD	AVG	19.38	19.50	22.45	30.00	-7.55

Table 7-51. FCC CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 67 of 348

5GHz (20MHz Bandwidth) (0+1)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	15.44	15.50	18.48	23.98	-5.50
	5200	40	CDD	AVG	16.87	16.95	19.92	23.98	-4.06
	5240	48	CDD	AVG	16.82	16.98	19.91	23.98	-4.07
	5260	52	CDD	AVG	16.92	16.87	19.91	23.98	-4.07
	5300	60	CDD	AVG	16.77	16.86	19.83	23.98	-4.15
	5320	64	CDD	AVG	16.94	16.86	19.91	23.98	-4.07
	5500	100	CDD	AVG	14.44	14.50	17.48	23.98	-6.50
	5520	104	CDD	AVG	17.00	17.00	20.01	23.98	-3.97
	5580	116	CDD	AVG	16.94	16.93	19.95	23.98	-4.03
	5660	132	CDD	AVG	17.00	16.96	19.99	23.98	-3.99
	5680	136	CDD	AVG	16.88	16.94	19.92	23.98	-4.06
	5700	140	CDD	AVG	13.91	14.00	16.97	23.98	-7.01
	5720	144	CDD	AVG	16.88	16.91	19.91	23.98	-4.07
	5745	149	CDD	AVG	19.44	19.49	22.48	30.00	-7.52
	5785	157	CDD	AVG	19.44	19.50	22.48	30.00	-7.52
	5825	165	CDD	AVG	19.48	19.44	22.47	30.00	-7.53

Table 7-52. FCC CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	16.94	16.65	19.81	23.98	-4.17
	5200	40	CDD	AVG	16.93	16.68	19.82	23.98	-4.16
	5240	48	CDD	AVG	16.76	16.69	19.74	23.98	-4.24
	5260	52	CDD	AVG	16.71	16.79	19.76	23.98	-4.22
	5300	60	CDD	AVG	16.51	16.70	19.62	23.98	-4.36
	5320	64	CDD	AVG	16.79	16.71	19.76	23.98	-4.22
	5500	100	CDD	AVG	16.54	16.67	19.62	23.98	-4.36
	5580	116	CDD	AVG	16.78	16.80	19.80	23.98	-4.18
	5700	140	CDD	AVG	16.75	16.79	19.78	23.98	-4.20
	5720	144	CDD	AVG	16.85	16.66	19.77	23.98	-4.21
	5745	149	CDD	AVG	19.33	19.26	22.31	30.00	-7.69
	5785	157	CDD	AVG	19.35	19.28	22.33	30.00	-7.67
	5825	165	CDD	AVG	19.34	19.26	22.31	30.00	-7.69

Table 7-53. FCC CDD 20MHz BW 802.11n (UNII) Maximum Conducted Output Power (Low Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 68 of 348

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	16.39	16.46	19.44	23.98	-4.54
	5200	40	CDD	AVG	16.84	17.00	19.93	23.98	-4.05
	5240	48	CDD	AVG	16.92	16.99	19.97	23.98	-4.01
	5260	52	CDD	AVG	16.94	16.97	19.97	23.98	-4.01
	5300	60	CDD	AVG	16.86	16.94	19.91	23.98	-4.07
	5320	64	CDD	AVG	16.74	16.72	19.74	23.98	-4.24
	5500	100	CDD	AVG	16.39	16.38	19.40	23.98	-4.58
	5520	104	CDD	AVG	16.85	16.78	19.83	23.98	-4.15
	5580	116	CDD	AVG	16.92	17.00	19.97	23.98	-4.01
	5680	136	CDD	AVG	16.96	16.82	19.90	23.98	-4.08
	5700	140	CDD	AVG	15.50	15.43	18.48	23.98	-5.50
	5720	144	CDD	AVG	16.73	16.84	19.80	23.98	-4.18
	5745	149	CDD	AVG	19.41	19.47	22.45	30.00	-7.55
	5785	157	CDD	AVG	19.39	19.37	22.39	30.00	-7.61
	5825	165	CDD	AVG	19.42	19.38	22.41	30.00	-7.59

Table 7-54. FCC CDD 20MHz BW 802.11n (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	15.37	15.48	18.44	23.98	-5.54
	5200	40	CDD	AVG	16.89	16.80	19.86	23.98	-4.12
	5240	48	CDD	AVG	16.87	16.98	19.94	23.98	-4.04
	5260	52	CDD	AVG	16.92	17.00	19.97	23.98	-4.01
	5300	60	CDD	AVG	16.77	16.86	19.83	23.98	-4.15
	5320	64	CDD	AVG	16.98	16.85	19.93	23.98	-4.05
	5500	100	CDD	AVG	14.50	14.50	17.51	23.98	-6.47
	5520	104	CDD	AVG	17.00	17.00	20.01	23.98	-3.97
	5580	116	CDD	AVG	16.90	16.93	19.93	23.98	-4.05
	5680	136	CDD	AVG	16.88	16.94	19.92	23.98	-4.06
	5700	140	CDD	AVG	13.91	14.00	16.97	23.98	-7.01
	5720	144	CDD	AVG	17.00	16.95	19.99	23.98	-3.99
	5745	149	CDD	AVG	19.50	19.50	22.51	30.00	-7.49
	5785	157	CDD	AVG	19.44	19.48	22.47	30.00	-7.53
	5825	165	CDD	AVG	19.50	19.42	22.47	30.00	-7.53

Table 7-55. FCC CDD 20MHz BW 802.11n (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 69 of 348

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	15.20	15.35	18.29	23.98	-5.69
	5200	40	CDD	AVG	16.81	16.80	19.82	23.98	-4.16
	5240	48	CDD	AVG	17.00	16.92	19.97	23.98	-4.01
	5260	52	CDD	AVG	17.00	17.00	20.01	23.98	-3.97
	5300	60	CDD	AVG	17.00	16.90	19.96	23.98	-4.02
	5320	64	CDD	AVG	16.96	17.00	19.99	23.98	-3.99
	5500	100	CDD	AVG	15.97	15.87	18.93	23.98	-5.05
	5520	104	CDD	AVG	16.88	17.00	19.95	23.98	-4.03
	5580	116	CDD	AVG	16.95	16.91	19.94	23.98	-4.04
	5680	136	CDD	AVG	16.94	16.99	19.98	23.98	-4.00
	5700	140	CDD	AVG	13.50	13.50	16.51	23.98	-7.47
	5720	144	CDD	AVG	16.93	17.00	19.98	23.98	-4.00
	5745	149	CDD	AVG	19.50	19.45	22.49	30.00	-7.51
	5785	157	CDD	AVG	19.36	19.43	22.41	30.00	-7.59
	5825	165	CDD	AVG	19.36	19.50	22.44	30.00	-7.56

Table 7-56. FCC CDD 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	14.50	14.46	17.49	23.98	-6.49
	5200	40	CDD	AVG	16.95	17.00	19.99	23.98	-3.99
	5240	48	CDD	AVG	16.87	17.00	19.95	23.98	-4.03
	5260	52	CDD	AVG	16.92	16.99	19.97	23.98	-4.01
	5300	60	CDD	AVG	17.00	16.88	19.95	23.98	-4.03
	5320	64	CDD	AVG	16.00	15.91	18.97	23.98	-5.01
	5500	100	CDD	AVG	14.50	14.38	17.45	23.98	-6.53
	5520	104	CDD	AVG	17.00	16.94	19.98	23.98	-4.00
	5580	116	CDD	AVG	16.91	17.00	19.97	23.98	-4.01
	5660	132	CDD	AVG	17.00	17.00	20.01	23.98	-3.97
	5680	136	CDD	AVG	16.49	16.32	19.42	23.98	-4.56
	5700	140	CDD	AVG	12.95	12.93	15.95	23.98	-8.03
	5720	144	CDD	AVG	16.97	16.90	19.95	23.98	-4.03
	5745	149	CDD	AVG	19.44	19.32	22.39	30.00	-7.61
	5785	157	CDD	AVG	19.45	19.35	22.41	30.00	-7.59
	5825	165	CDD	AVG	19.36	19.50	22.44	30.00	-7.56

Table 7-57. FCC CDD 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5180	36	CDD	AVG	14.48	14.50	17.50	23.98	-6.48
	5200	40	CDD	AVG	16.94	16.98	19.97	23.98	-4.01
	5240	48	CDD	AVG	16.90	16.85	19.89	23.98	-4.09
	5260	52	CDD	AVG	16.93	16.92	19.94	23.98	-4.04
	5300	60	CDD	AVG	17.00	16.98	20.00	23.98	-3.98
	5320	64	CDD	AVG	15.35	15.41	18.39	23.98	-5.59
	5500	100	CDD	AVG	13.97	14.00	17.00	23.98	-6.98
	5520	104	CDD	AVG	16.95	17.00	19.99	23.98	-3.99
	5580	116	CDD	AVG	16.97	16.92	19.96	23.98	-4.02
	5660	132	CDD	AVG	16.92	17.00	19.97	23.98	-4.01
	5680	136	CDD	AVG	15.96	16.00	18.99	23.98	-4.99
	5700	140	CDD	AVG	13.00	12.99	16.01	23.98	-7.97
	5720	144	CDD	AVG	16.88	16.93	19.92	23.98	-4.06
	5745	149	CDD	AVG	19.50	19.50	22.51	30.00	-7.49
	5785	157	CDD	AVG	19.48	19.50	22.50	30.00	-7.50
	5825	165	CDD	AVG	19.46	19.50	22.49	30.00	-7.51

Table 7-58. FCC CDD 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	14.00	14.00	17.01	23.98	-6.97
	5230	46	CDD	AVG	19.50	19.50	22.51	23.98	-1.47
	5270	54	CDD	AVG	19.47	19.50	22.50	23.98	-1.48
	5310	62	CDD	AVG	15.50	15.35	18.44	23.98	-5.54
	5510	102	CDD	AVG	14.34	14.44	17.40	23.98	-6.58
	5550	110	CDD	AVG	19.49	19.45	22.48	23.98	-1.50
	5630	126	CDD	AVG	19.39	19.46	22.44	23.98	-1.54
	5670	134	CDD	AVG	16.50	16.42	19.47	23.98	-4.51
	5710	142	CDD	AVG	19.50	19.37	22.45	23.98	-1.53
	5755	151	CDD	AVG	19.50	19.39	22.46	30.00	-7.54
	5795	159	CDD	AVG	19.44	19.37	22.42	30.00	-7.58

Table 7-59. FCC CDD 40MHz BW 802.11n (UNII) Maximum Conducted Output Power (Low Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 71 of 348

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	13.91	14.00	16.97	23.98	-7.01
	5230	46	CDD	AVG	19.50	19.42	22.47	23.98	-1.51
	5270	54	CDD	AVG	19.50	19.47	22.50	23.98	-1.48
	5310	62	CDD	AVG	14.50	14.50	17.51	23.98	-6.47
	5510	102	CDD	AVG	14.00	14.00	17.01	23.98	-6.97
	5550	110	CDD	AVG	18.89	18.81	21.86	23.98	-2.12
	5590	118	CDD	AVG	19.50	19.34	22.43	23.98	-1.55
	5630	126	CDD	AVG	19.36	19.50	22.44	23.98	-1.54
	5670	134	CDD	AVG	15.50	15.40	18.46	23.98	-5.52
	5710	142	CDD	AVG	19.38	19.22	22.31	23.98	-1.67
	5755	151	CDD	AVG	19.32	19.21	22.28	30.00	-7.72
	5795	159	CDD	AVG	19.50	19.47	22.50	30.00	-7.50

Table 7-60. FCC CDD 40MHz BW 802.11n (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	13.00	12.96	15.99	23.98	-7.99
	5230	46	CDD	AVG	19.42	19.50	22.47	23.98	-1.51
	5270	54	CDD	AVG	19.40	19.45	22.44	23.98	-1.54
	5310	62	CDD	AVG	13.46	13.50	16.49	23.98	-7.49
	5510	102	CDD	AVG	12.44	12.33	15.40	23.98	-8.58
	5550	110	CDD	AVG	18.48	18.42	21.46	23.98	-2.52
	5590	118	CDD	AVG	19.47	19.41	22.45	23.98	-1.53
	5630	126	CDD	AVG	18.80	18.96	21.89	23.98	-2.09
	5670	134	CDD	AVG	14.50	14.50	17.51	23.98	-6.47
	5710	142	CDD	AVG	19.42	19.50	22.47	23.98	-1.51
	5755	151	CDD	AVG	19.50	19.38	22.45	30.00	-7.55
	5795	159	CDD	AVG	19.50	19.49	22.51	30.00	-7.49

Table 7-61. FCC CDD 40MHz BW 802.11n (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	14.00	13.82	16.92	23.98	-7.06
	5230	46	CDD	AVG	19.50	19.49	22.51	23.98	-1.47
	5270	54	CDD	AVG	19.50	19.48	22.50	23.98	-1.48
	5310	62	CDD	AVG	14.40	14.50	17.46	23.98	-6.52
	5510	102	CDD	AVG	13.92	14.00	16.97	23.98	-7.01
	5550	110	CDD	AVG	18.42	18.37	21.41	23.98	-2.57
	5590	118	CDD	AVG	19.37	19.50	22.45	23.98	-1.53
	5630	126	CDD	AVG	18.97	19.00	22.00	23.98	-1.98
	5670	134	CDD	AVG	16.00	16.00	19.01	23.98	-4.97
	5710	142	CDD	AVG	19.41	19.50	22.47	23.98	-1.51
	5755	151	CDD	AVG	19.50	19.50	22.51	30.00	-7.49
	5795	159	CDD	AVG	19.50	19.50	22.51	30.00	-7.49

Table 7-62. FCC CDD 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	13.00	12.96	15.99	23.98	-7.99
	5230	46	CDD	AVG	19.42	19.50	22.47	23.98	-1.51
	5270	54	CDD	AVG	19.40	19.45	22.44	23.98	-1.54
	5310	62	CDD	AVG	13.96	14.00	16.99	23.98	-6.99
	5510	102	CDD	AVG	12.97	12.87	15.93	23.98	-8.05
	5550	110	CDD	AVG	18.00	17.92	20.97	23.98	-3.01
	5590	118	CDD	AVG	19.47	19.41	22.45	23.98	-1.53
	5630	126	CDD	AVG	18.40	18.42	21.42	23.98	-2.56
	5670	134	CDD	AVG	14.98	14.98	17.99	23.98	-5.99
	5710	142	CDD	AVG	19.42	19.50	22.47	23.98	-1.51
	5755	151	CDD	AVG	19.50	19.38	22.45	30.00	-7.55
	5795	159	CDD	AVG	19.50	19.49	22.51	30.00	-7.49

Table 7-63. FCC CDD 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379		 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 73 of 348

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5190	38	CDD	AVG	12.50	12.42	15.47	23.98	-8.51
	5230	46	CDD	AVG	18.97	18.96	21.98	23.98	-2.00
	5270	54	CDD	AVG	19.50	19.42	22.47	23.98	-1.51
	5310	62	CDD	AVG	12.99	12.93	15.97	23.98	-8.01
	5510	102	CDD	AVG	12.00	12.00	15.01	23.98	-8.97
	5550	110	CDD	AVG	17.46	17.46	20.47	23.98	-3.51
	5590	118	CDD	AVG	18.88	19.00	21.95	23.98	-2.03
	5630	126	CDD	AVG	17.38	17.50	20.45	23.98	-3.53
	5670	134	CDD	AVG	14.50	14.37	17.45	23.98	-6.53
	5710	142	CDD	AVG	19.41	19.50	22.47	23.98	-1.51
	5755	151	CDD	AVG	19.50	19.50	22.51	30.00	-7.49
	5795	159	CDD	AVG	19.49	19.44	22.48	30.00	-7.52

Table 7-64. FCC CDD 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	11.93	11.97	14.96	23.98	-9.02
	5290	58	CDD	AVG	14.43	14.50	17.48	23.98	-6.50
	5530	106	CDD	AVG	14.91	14.97	17.95	23.98	-6.03
	5610	122	CDD	AVG	17.41	17.33	20.38	23.98	-3.60
	5690	138	CDD	AVG	19.50	19.50	22.51	23.98	-1.47
	5775	155	CDD	AVG	18.33	18.40	21.38	30.00	-8.62

Table 7-65. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	10.28	10.48	13.39	23.98	-10.59
	5290	58	CDD	AVG	13.50	13.49	16.51	23.98	-7.47
	5530	106	CDD	AVG	13.72	13.70	16.72	23.98	-7.26
	5610	122	CDD	AVG	17.00	16.99	20.01	23.98	-3.97
	5690	138	CDD	AVG	19.23	19.33	22.29	23.98	-1.69
	5775	155	CDD	AVG	18.00	17.92	20.97	30.00	-9.03

Table 7-66. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 74 of 348

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	10.32	10.42	13.38	23.98	-10.60
	5290	58	CDD	AVG	12.50	12.47	15.50	23.98	-8.48
	5530	106	CDD	AVG	12.92	13.00	15.97	23.98	-8.01
	5610	122	CDD	AVG	15.32	15.50	18.42	23.98	-5.56
	5690	138	CDD	AVG	19.50	19.45	22.49	23.98	-1.49
	5775	155	CDD	AVG	15.95	16.00	18.99	30.00	-11.01

Table 7-67. FCC CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power (High Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	11.90	12.00	14.96	23.98	-9.02
	5290	58	CDD	AVG	14.42	14.50	17.47	23.98	-6.51
	5530	106	CDD	AVG	14.81	14.91	17.87	23.98	-6.11
	5610	122	CDD	AVG	17.40	17.40	20.41	23.98	-3.57
	5690	138	CDD	AVG	19.45	19.50	22.49	23.98	-1.49
	5775	155	CDD	AVG	17.73	17.60	20.68	30.00	-9.32

Table 7-68. FCC CDD 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	10.50	10.50	13.51	23.98	-10.47
	5290	58	CDD	AVG	13.42	13.34	16.39	23.98	-7.59
	5530	106	CDD	AVG	12.85	13.00	15.94	23.98	-8.04
	5610	122	CDD	AVG	15.88	15.92	18.91	23.98	-5.07
	5690	138	CDD	AVG	19.37	19.43	22.41	23.98	-1.57
	5775	155	CDD	AVG	17.00	16.93	19.98	30.00	-10.02

Table 7-69. FCC CDD 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power (Mid Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					Antenna 5b	Antenna 4b	Summed		
	5210	42	CDD	AVG	10.32	10.42	13.38	23.98	-10.60
	5290	58	CDD	AVG	12.50	12.47	15.50	23.98	-8.48
	5530	106	CDD	AVG	11.91	11.99	14.96	23.98	-9.02
	5610	122	CDD	AVG	15.32	15.50	18.42	23.98	-5.56
	5690	138	CDD	AVG	19.50	19.45	22.49	23.98	-1.49
	5775	155	CDD	AVG	15.95	16.00	18.99	30.00	-11.01

Table 7-70. FCC CDD 80MHz BW 802.11ax (UNII) Maximum Conducted Output Power (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 75 of 348

7.4.6 ISED CDD/SDM Maximum Conducted Output Power Measurements

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	CDD	AVG	10.00	9.84	12.93	-	-	5.90	18.83	23.01	-4.18
	5200	40	CDD	AVG	9.89	9.92	12.92	-	-	5.90	18.82	23.01	-4.19
	5240	48	CDD	AVG	10.00	10.00	13.01	-	-	5.90	18.91	23.01	-4.10
	5260	52	CDD	AVG	16.83	16.91	19.88	23.98	-4.10	5.59	25.47	30.00	-4.53
	5300	60	CDD	AVG	16.80	16.91	19.87	23.98	-4.11	5.59	25.46	30.00	-4.54
	5320	64	CDD	AVG	16.91	16.84	19.89	23.98	-4.09	5.59	25.48	30.00	-4.52
	5500	100	CDD	AVG	17.00	16.90	19.96	23.98	-4.02	5.45	25.41	30.00	-4.59
	5580	116	CDD	AVG	16.83	16.88	19.87	23.98	-4.11	5.45	25.32	30.00	-4.68
	5700	140	CDD	AVG	17.00	16.89	19.96	23.98	-4.02	5.45	25.41	30.00	-4.59
	5720	144	CDD	AVG	16.82	16.71	19.78	23.98	-4.20	5.45	25.23	30.00	-4.77
	5745	149	CDD	AVG	19.46	19.35	22.42	30.00	-7.58	6.07	28.49	-	-
	5785	157	CDD	AVG	19.32	19.40	22.37	30.00	-7.63	6.07	28.44	-	-
	5825	165	CDD	AVG	19.21	19.50	22.37	30.00	-7.63	6.07	28.44	-	-

Table 7-71. ISED CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	CDD	AVG	9.93	9.98	12.97	-	-	5.90	18.87	23.01	-4.14
	5200	40	CDD	AVG	9.88	9.99	12.95	-	-	5.90	18.85	23.01	-4.16
	5240	48	CDD	AVG	9.91	9.91	12.92	-	-	5.90	18.82	23.01	-4.19
	5260	52	CDD	AVG	16.79	16.89	19.85	23.98	-4.13	5.59	25.44	30.00	-4.56
	5300	60	CDD	AVG	16.93	17.00	19.98	23.98	-4.00	5.59	25.57	30.00	-4.43
	5320	64	CDD	AVG	16.81	16.97	19.90	23.98	-4.08	5.59	25.49	30.00	-4.51
	5500	100	CDD	AVG	16.34	16.44	19.40	23.98	-4.58	5.45	24.85	30.00	-5.15
	5520	104	CDD	AVG	16.96	16.89	19.94	23.98	-4.04	5.45	25.39	30.00	-4.61
	5580	116	CDD	AVG	17.00	16.98	20.00	23.98	-3.98	5.45	25.45	30.00	-4.55
	5680	136	CDD	AVG	16.87	16.90	19.90	23.98	-4.08	5.45	25.35	30.00	-4.65
	5700	140	CDD	AVG	15.35	15.40	18.39	23.98	-5.59	5.45	23.84	30.00	-6.16
	5720	144	CDD	AVG	16.97	16.79	19.89	23.98	-4.09	5.45	25.34	30.00	-4.66
	5745	149	CDD	AVG	19.50	19.39	22.46	30.00	-7.54	6.07	28.53	-	-
	5785	157	CDD	AVG	19.33	19.45	22.40	30.00	-7.60	6.07	28.47	-	-
	5825	165	CDD	AVG	19.38	19.50	22.45	30.00	-7.55	6.07	28.52	-	-

Table 7-72. ISED CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	CDD	AVG	9.85	9.99	12.93	-	-	5.90	18.83	23.01	-4.18
	5200	40	CDD	AVG	9.94	9.96	12.96	-	-	5.90	18.86	23.01	-4.15
	5240	48	CDD	AVG	10.00	9.94	12.98	-	-	5.90	18.88	23.01	-4.13
	5260	52	CDD	AVG	16.92	16.87	19.91	23.98	-4.07	5.59	25.50	30.00	-4.50
	5300	60	CDD	AVG	16.77	16.86	19.83	23.98	-4.15	5.59	25.42	30.00	-4.58
	5320	64	CDD	AVG	16.94	16.86	19.91	23.98	-4.07	5.59	25.50	30.00	-4.50
	5500	100	CDD	AVG	14.44	14.50	17.48	23.98	-6.50	5.45	22.93	30.00	-7.07
	5520	104	CDD	AVG	17.00	17.00	20.01	23.98	-3.97	5.45	25.46	30.00	-4.54
	5580	116	CDD	AVG	16.94	16.93	19.95	23.98	-4.03	5.45	25.40	30.00	-4.60
	5660	132	CDD	AVG	17.00	16.96	19.99	23.98	-3.99	5.45	25.44	30.00	-4.56
	5680	136	CDD	AVG	16.88	16.94	19.92	23.98	-4.06	5.45	25.37	30.00	-4.63
	5700	140	CDD	AVG	13.91	14.00	16.97	23.98	-7.01	5.45	22.42	30.00	-7.58
	5720	144	CDD	AVG	16.88	16.91	19.91	23.98	-4.07	5.45	25.36	30.00	-4.64
	5745	149	CDD	AVG	19.44	19.49	22.48	30.00	-7.52	6.07	28.55	-	-
	5785	157	CDD	AVG	19.44	19.50	22.48	30.00	-7.52	6.07	28.55	-	-
	5825	165	CDD	AVG	19.48	19.44	22.47	30.00	-7.53	6.07	28.54	-	-

Table 7-73. ISED CDD 20MHz BW 802.11a (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 76 of 348

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	12.61	12.65	15.64	-	-	3.12	18.76	23.01	-4.25
	5200	40	SDM	AVG	12.60	12.50	15.56	-	-	3.12	18.68	23.01	-4.33
	5240	48	SDM	AVG	12.62	12.54	15.59	-	-	3.12	18.71	23.01	-4.30
	5260	52	CDD	AVG	16.71	16.79	19.76	23.98	-4.22	5.59	25.35	30.00	-4.65
	5300	60	CDD	AVG	16.51	16.70	19.62	23.98	-4.36	5.59	25.21	30.00	-4.79
	5320	64	CDD	AVG	16.79	16.71	19.76	23.98	-4.22	5.59	25.35	30.00	-4.65
	5500	100	CDD	AVG	16.54	16.67	19.62	23.98	-4.36	5.45	25.07	30.00	-4.93
	5580	116	CDD	AVG	16.78	16.80	19.80	23.98	-4.18	5.45	25.25	30.00	-4.75
	5700	140	CDD	AVG	16.91	16.73	19.83	23.98	-4.15	5.45	25.28	30.00	-4.72
	5720	144	CDD	AVG	16.85	16.66	19.77	23.98	-4.21	5.45	25.22	30.00	-4.78
	5745	149	CDD	AVG	19.33	19.26	22.31	30.00	-7.69	6.07	28.38	-	-
	5785	157	CDD	AVG	19.35	19.28	22.33	30.00	-7.67	6.07	28.40	-	-
	5825	165	CDD	AVG	19.34	19.26	22.31	30.00	-7.69	6.07	28.38	-	-

Table 7-74. ISCED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	12.65	12.69	15.68	-	-	3.12	18.80	23.01	-4.21
	5200	40	SDM	AVG	12.56	12.74	15.66	-	-	3.12	18.78	23.01	-4.23
	5240	48	SDM	AVG	12.58	12.70	15.65	-	-	3.12	18.77	23.01	-4.24
	5260	52	CDD	AVG	16.94	16.97	19.97	23.98	-4.01	5.59	25.56	30.00	-4.44
	5300	60	CDD	AVG	16.86	16.94	19.91	23.98	-4.07	5.59	25.50	30.00	-4.50
	5320	64	CDD	AVG	16.74	16.72	19.74	23.98	-4.24	5.59	25.33	30.00	-4.67
	5500	100	CDD	AVG	16.39	16.38	19.40	23.98	-4.58	5.45	24.85	30.00	-5.15
	5520	104	CDD	AVG	16.85	16.78	19.83	23.98	-4.15	5.45	25.28	30.00	-4.72
	5580	116	CDD	AVG	16.92	17.00	19.97	23.98	-4.01	5.45	25.42	30.00	-4.58
	5680	136	CDD	AVG	16.96	16.82	19.90	23.98	-4.08	5.45	25.35	30.00	-4.65
	5700	140	CDD	AVG	15.50	15.43	18.48	23.98	-5.50	5.45	23.93	30.00	-6.07
	5720	144	CDD	AVG	16.73	16.84	19.80	23.98	-4.18	5.45	25.25	30.00	-4.75
	5745	149	CDD	AVG	19.41	19.47	22.45	30.00	-7.55	6.07	28.52	-	-
	5785	157	CDD	AVG	19.39	19.37	22.39	30.00	-7.61	6.07	28.46	-	-
	5825	165	CDD	AVG	19.42	19.38	22.41	30.00	-7.59	6.07	28.48	-	-

Table 7-75. ISCED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	12.68	12.68	15.69	-	-	3.12	18.81	23.01	-4.20
	5200	40	SDM	AVG	12.48	12.65	15.58	-	-	3.12	18.70	23.01	-4.31
	5240	48	SDM	AVG	12.59	12.68	15.65	-	-	3.12	18.77	23.01	-4.24
	5260	52	CDD	AVG	16.92	17.00	19.97	23.98	-4.01	5.59	25.56	30.00	-4.44
	5300	60	CDD	AVG	16.77	16.86	19.83	23.98	-4.15	5.59	25.42	30.00	-4.58
	5320	64	CDD	AVG	16.98	16.85	19.93	23.98	-4.05	5.59	25.52	30.00	-4.48
	5500	100	CDD	AVG	14.50	14.50	17.51	23.98	-6.47	5.45	22.96	30.00	-7.04
	5520	104	CDD	AVG	17.00	17.00	20.01	23.98	-3.97	5.45	25.46	30.00	-4.54
	5580	116	CDD	AVG	16.90	16.93	19.93	23.98	-4.05	5.45	25.38	30.00	-4.62
	5660	132	CDD	AVG	17.00	16.96	19.99	23.98	-3.99	5.45	25.44	30.00	-4.56
	5680	136	CDD	AVG	16.88	16.94	19.92	23.98	-4.06	5.45	25.37	30.00	-4.63
	5700	140	CDD	AVG	13.91	14.00	16.97	23.98	-7.01	5.45	22.42	30.00	-7.58
	5720	144	CDD	AVG	17.00	16.95	19.99	23.98	-3.99	5.45	25.44	30.00	-4.56
	5745	149	CDD	AVG	19.50	19.50	22.51	30.00	-7.49	6.07	28.58	-	-
	5785	157	CDD	AVG	19.44	19.48	22.47	30.00	-7.53	6.07	28.54	-	-
	5825	165	CDD	AVG	19.50	19.42	22.47	30.00	-7.53	6.07	28.54	-	-

Table 7-76. ISCED CDD/SDM 20MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 77 of 348

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	12.71	12.62	15.68	-	-	3.12	18.80	23.01	-4.21
	5200	40	SDM	AVG	12.50	12.73	15.63	-	-	3.12	18.75	23.01	-4.26
	5240	48	SDM	AVG	12.66	12.50	15.59	-	-	3.12	18.71	23.01	-4.30
	5260	52	CDD	AVG	17.00	17.00	20.01	23.98	-3.97	5.59	25.60	30.00	-4.40
	5300	60	CDD	AVG	17.00	16.90	19.96	23.98	-4.02	5.59	25.55	30.00	-4.45
	5320	64	CDD	AVG	16.96	17.00	19.99	23.98	-3.99	5.59	25.58	30.00	-4.42
	5500	100	CDD	AVG	15.97	15.87	18.93	23.98	-5.05	5.45	24.38	30.00	-5.62
	5520	104	CDD	AVG	16.88	17.00	19.95	23.98	-4.03	5.45	25.40	30.00	-4.60
	5580	116	CDD	AVG	16.95	16.91	19.94	23.98	-4.04	5.45	25.39	30.00	-4.61
	5680	136	CDD	AVG	16.94	16.99	19.98	23.98	-4.00	5.45	25.43	30.00	-4.57
	5700	140	CDD	AVG	13.50	13.50	16.51	23.98	-7.47	5.45	21.96	30.00	-8.04
	5720	144	CDD	AVG	16.93	17.00	19.98	23.98	-4.00	5.45	25.43	30.00	-4.57
	5745	149	CDD	AVG	19.50	19.45	22.49	30.00	-7.51	6.07	28.56	-	-
	5785	157	CDD	AVG	19.33	19.44	22.40	30.00	-7.60	6.07	28.47	-	-
	5825	165	CDD	AVG	19.38	19.45	22.43	30.00	-7.57	6.07	28.50	-	-

Table 7-77. ISED CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	12.58	12.56	15.58	-	-	3.12	18.70	23.01	-4.31
	5200	40	SDM	AVG	12.54	12.72	15.64	-	-	3.12	18.76	23.01	-4.25
	5240	48	SDM	AVG	12.64	12.65	15.66	-	-	3.12	18.78	23.01	-4.23
	5260	52	CDD	AVG	16.92	16.99	19.97	23.98	-4.01	5.59	25.56	30.00	-4.44
	5300	60	CDD	AVG	17.00	16.88	19.95	23.98	-4.03	5.59	25.54	30.00	-4.46
	5320	64	CDD	AVG	16.00	15.91	18.97	23.98	-5.01	5.59	24.56	30.00	-5.44
	5500	100	CDD	AVG	14.50	14.38	17.45	23.98	-6.53	5.45	22.90	30.00	-7.10
	5520	104	CDD	AVG	17.00	16.94	19.98	23.98	-4.00	5.45	25.43	30.00	-4.57
	5580	116	CDD	AVG	16.91	17.00	19.97	23.98	-4.01	5.45	25.42	30.00	-4.58
	5660	132	CDD	AVG	17.00	17.00	20.01	23.98	-3.97	5.45	25.46	30.00	-4.54
	5680	136	CDD	AVG	16.49	16.32	19.42	23.98	-4.56	5.45	24.87	30.00	-5.13
	5700	140	CDD	AVG	12.95	12.93	15.95	23.98	-8.03	5.45	21.40	30.00	-8.60
	5720	144	CDD	AVG	16.97	16.90	19.95	23.98	-4.03	5.45	25.40	30.00	-4.60
	5745	149	CDD	AVG	19.44	19.32	22.39	30.00	-7.61	6.07	28.46	-	-
	5785	157	CDD	AVG	19.45	19.35	22.41	30.00	-7.59	6.07	28.48	-	-
	5825	165	CDD	AVG	19.36	19.50	22.44	30.00	-7.56	6.07	28.51	-	-

Table 7-78. ISED CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (20MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5180	36	SDM	AVG	12.59	12.72	15.67	-	-	3.12	18.79	23.01	-4.22
	5200	40	SDM	AVG	12.57	12.71	15.65	-	-	3.12	18.77	23.01	-4.24
	5240	48	SDM	AVG	12.60	12.61	15.62	-	-	3.12	18.74	23.01	-4.27
	5260	52	CDD	AVG	16.93	16.92	19.94	23.98	-4.04	5.59	25.53	30.00	-4.47
	5300	60	CDD	AVG	17.00	16.98	20.00	23.98	-3.98	5.59	25.59	30.00	-4.41
	5320	64	CDD	AVG	15.35	15.41	18.39	23.98	-5.59	5.59	23.98	30.00	-6.02
	5500	100	CDD	AVG	13.97	14.00	17.00	23.98	-6.98	5.45	22.45	30.00	-7.55
	5520	104	CDD	AVG	16.95	17.00	19.99	23.98	-3.99	5.45	25.44	30.00	-4.56
	5580	116	CDD	AVG	16.97	16.92	19.96	23.98	-4.02	5.45	25.41	30.00	-4.59
	5660	132	CDD	AVG	16.92	17.00	19.97	23.98	-4.01	5.45	25.42	30.00	-4.58
	5680	136	CDD	AVG	15.96	16.00	18.99	23.98	-4.99	5.45	24.44	30.00	-5.56
	5700	140	CDD	AVG	13.00	12.99	16.01	23.98	-7.97	5.45	21.46	30.00	-8.54
	5720	144	CDD	AVG	16.88	16.93	19.92	23.98	-4.06	5.45	25.37	30.00	-4.63
	5745	149	CDD	AVG	19.50	19.50	22.51	30.00	-7.49	6.07	28.58	-	-
	5785	157	CDD	AVG	19.48	19.50	22.50	30.00	-7.50	6.07	28.57	-	-
	5825	165	CDD	AVG	19.46	19.50	22.49	30.00	-7.51	6.07	28.56	-	-

Table 7-79. ISED CDD/SDM 20MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 78 of 348

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	13.98	13.93	16.97	-	-	3.12	20.09	23.01	-2.92
	5230	46	SDM	AVG	15.73	15.54	18.65	-	-	3.12	21.77	23.01	-1.24
	5270	54	CDD	AVG	19.47	19.50	22.50	23.98	-1.48	5.59	28.09	30.00	-1.91
	5310	62	CDD	AVG	15.50	15.35	18.44	23.98	-5.54	5.59	24.03	30.00	-5.97
	5510	102	CDD	AVG	14.34	14.44	17.40	23.98	-6.58	5.45	22.85	30.00	-7.15
	5550	110	CDD	AVG	19.49	19.45	22.48	23.98	-1.50	5.45	27.93	30.00	-2.07
	5670	134	CDD	AVG	16.50	16.42	19.47	23.98	-4.51	5.45	24.92	30.00	-5.08
	5710	142	CDD	AVG	19.50	19.37	22.45	23.98	-1.53	5.45	27.90	30.00	-2.10
	5755	151	CDD	AVG	19.50	19.39	22.46	30.00	-7.54	6.07	28.53	-	-
	5795	159	CDD	AVG	19.44	19.37	22.42	30.00	-7.58	6.07	28.49	-	-

Table 7-80. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	13.88	13.90	16.90	-	-	3.12	20.02	23.01	-2.99
	5230	46	SDM	AVG	15.62	15.66	18.65	-	-	3.12	21.77	23.01	-1.24
	5270	54	CDD	AVG	19.50	19.47	22.50	23.98	-1.48	5.59	28.09	30.00	-1.91
	5310	62	CDD	AVG	14.50	14.50	17.51	23.98	-6.47	5.59	23.10	30.00	-6.90
	5510	102	CDD	AVG	14.00	14.00	17.01	23.98	-6.97	5.45	22.46	30.00	-7.54
	5550	110	CDD	AVG	18.89	18.81	21.86	23.98	-2.12	5.45	27.31	30.00	-2.69
	5670	134	CDD	AVG	15.50	15.40	18.46	23.98	-5.52	5.45	23.91	30.00	-6.09
	5710	142	CDD	AVG	19.38	19.22	22.31	23.98	-1.67	5.45	27.76	30.00	-2.24
	5755	151	CDD	AVG	19.32	19.21	22.28	30.00	-7.72	6.07	28.35	-	-
	5795	159	CDD	AVG	19.50	19.47	22.50	30.00	-7.50	6.07	28.57	-	-

Table 7-81. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5190	38	CDD	AVG	13.00	13.00	16.01	-	-	5.90	21.91	23.01	-1.10
	5230	46	SDM	AVG	15.70	15.51	18.62	-	-	3.12	21.74	23.01	-1.27
	5270	54	CDD	AVG	19.40	19.45	22.44	23.98	-1.54	5.59	28.03	30.00	-1.97
	5310	62	CDD	AVG	13.46	13.50	16.49	23.98	-7.49	5.59	22.08	30.00	-7.92
	5510	102	CDD	AVG	12.44	12.33	15.40	23.98	-8.58	5.45	20.85	30.00	-9.15
	5550	110	CDD	AVG	18.48	18.42	21.46	23.98	-2.52	5.45	26.91	30.00	-3.09
	5670	134	CDD	AVG	14.50	14.50	17.51	23.98	-6.47	5.45	22.96	30.00	-7.04
	5710	142	CDD	AVG	19.42	19.50	22.47	23.98	-1.51	5.45	27.92	30.00	-2.08
	5755	151	CDD	AVG	19.50	19.38	22.45	30.00	-7.55	6.07	28.52	-	-
	5795	159	CDD	AVG	19.50	19.49	22.51	30.00	-7.49	6.07	28.58	-	-

Table 7-82. ISED CDD/SDM 40MHz BW 802.11n (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	13.77	13.74	16.77	-	-	3.12	19.89	23.01	-3.12
	5230	46	SDM	AVG	15.74	15.57	18.67	-	-	3.12	21.79	23.01	-1.22
	5270	54	CDD	AVG	19.50	19.48	22.50	23.98	-1.48	5.59	28.09	30.00	-1.91
	5310	62	CDD	AVG	14.40	14.50	17.46	23.98	-6.52	5.59	23.05	30.00	-6.95
	5510	102	CDD	AVG	13.92	14.00	16.97	23.98	-7.01	5.45	22.42	30.00	-7.58
	5550	110	CDD	AVG	18.42	18.37	21.41	23.98	-2.57	5.45	26.86	30.00	-3.14
	5670	134	CDD	AVG	16.00	16.00	19.01	23.98	-4.97	5.45	24.46	30.00	-5.54
	5710	142	CDD	AVG	19.41	19.50	22.47	23.98	-1.51	5.45	27.92	30.00	-2.08
	5755	151	CDD	AVG	19.50	19.50	22.51	30.00	-7.49	6.07	28.58	-	-
	5795	159	CDD	AVG	19.50	19.50	22.51	30.00	-7.49	6.07	28.58	-	-

Table 7-83. ISED CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 79 of 348

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5190	38	SDM	AVG	12.81	12.93	15.88	-	-	3.12	19.00	23.01	-4.01
	5230	46	SDM	AVG	15.46	15.59	18.54	-	-	3.12	21.66	23.01	-1.35
	5270	54	CDD	AVG	19.40	19.45	22.44	23.98	-1.54	5.59	28.03	30.00	-1.97
	5310	62	CDD	AVG	13.96	14.00	16.99	23.98	-6.99	5.59	22.58	30.00	-7.42
	5510	102	CDD	AVG	12.97	12.87	15.93	23.98	-8.05	5.45	21.38	30.00	-8.62
	5550	110	CDD	AVG	18.00	17.92	20.97	23.98	-3.01	5.45	26.42	30.00	-3.58
	5670	134	CDD	AVG	14.98	14.98	17.99	23.98	-5.99	5.45	23.44	30.00	-6.56
	5710	142	CDD	AVG	19.42	19.50	22.47	23.98	-1.51	5.45	27.92	30.00	-2.08
	5755	151	CDD	AVG	19.50	19.38	22.45	30.00	-7.55	6.07	28.52	-	-
	5795	159	CDD	AVG	19.50	19.49	22.51	30.00	-7.49	6.07	28.58	-	-

Table 7-84. ISED CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (40MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5190	38	CDD	AVG	12.47	12.50	15.50	-	-	5.90	21.40	23.01	-1.61
	5230	46	SDM	AVG	15.50	15.59	18.56	-	-	3.12	21.68	23.01	-1.33
	5270	54	CDD	AVG	19.50	19.42	22.47	23.98	-1.51	5.59	28.06	30.00	-1.94
	5310	62	CDD	AVG	12.99	12.93	15.97	23.98	-8.01	5.59	21.56	30.00	-8.44
	5510	102	CDD	AVG	12.00	12.00	15.01	23.98	-8.97	5.45	20.46	30.00	-9.54
	5550	110	CDD	AVG	17.46	17.46	20.47	23.98	-3.51	5.45	25.92	30.00	-4.08
	5670	134	CDD	AVG	14.50	14.37	17.45	23.98	-6.53	5.45	22.90	30.00	-7.10
	5710	142	CDD	AVG	19.41	19.50	22.47	23.98	-1.51	5.45	27.92	30.00	-2.08
	5755	151	CDD	AVG	19.50	19.50	22.51	30.00	-7.49	6.07	28.58	-	-
	5795	159	CDD	AVG	19.49	19.44	22.48	30.00	-7.52	6.07	28.55	-	-

Table 7-85. ISED CDD/SDM 40MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5210	42	CDD	AVG	12.00	11.92	14.97	-	-	5.90	20.87	23.01	-2.14
	5290	58	CDD	AVG	14.43	14.50	17.48	23.98	-6.50	5.59	23.07	30.00	-6.93
	5530	106	CDD	AVG	14.91	14.97	17.95	23.98	-6.03	5.45	23.40	30.00	-6.60
	5690	138	CDD	AVG	19.50	19.50	22.51	23.98	-1.47	5.45	27.96	30.00	-2.04
	5775	155	CDD	AVG	18.33	18.40	21.38	30.00	-8.62	6.07	27.45	-	-

Table 7-86. ISED CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5210	42	CDD	AVG	10.50	10.41	13.47	-	-	5.90	19.37	23.01	-3.64
	5290	58	CDD	AVG	13.50	13.49	16.51	23.98	-7.47	5.59	22.10	30.00	-7.90
	5530	106	CDD	AVG	13.72	13.70	16.72	23.98	-7.26	5.45	22.17	30.00	-7.83
	5690	138	CDD	AVG	19.23	19.33	22.29	23.98	-1.69	5.45	27.74	30.00	-2.26
	5775	155	CDD	AVG	18.00	17.92	20.97	30.00	-9.03	6.07	27.04	-	-

Table 7-87. ISED CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5210	42	CDD	AVG	10.35	10.44	13.41	-	-	5.90	19.31	23.01	-3.70
	5290	58	CDD	AVG	12.50	12.47	15.50	23.98	-8.48	5.59	21.09	30.00	-8.91
	5530	106	CDD	AVG	12.92	13.00	15.97	23.98	-8.01	5.45	21.42	30.00	-8.58
	5690	138	CDD	AVG	19.50	19.45	22.49	23.98	-1.49	5.45	27.94	30.00	-2.06
	5775	155	CDD	AVG	15.95	16.00	18.99	30.00	-11.01	6.07	25.06	-	-

Table 7-88. ISED CDD 80MHz BW 802.11ac (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

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5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5210	42	CDD	AVG	11.88	11.95	14.93	-	-	5.90	20.83	23.01	-2.18
	5290	58	CDD	AVG	14.42	14.50	17.47	23.98	-6.51	5.59	23.06	30.00	-6.94
	5530	106	CDD	AVG	14.81	14.91	17.87	23.98	-6.11	5.45	23.32	30.00	-6.68
	5690	138	CDD	AVG	19.45	19.50	22.49	23.98	-1.49	5.45	27.94	30.00	-2.06
	5775	155	CDD	AVG	17.73	17.60	20.68	30.00	-9.32	6.07	26.75	-	-

Table 7-89. ISED CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Low Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5210	42	CDD	AVG	10.37	10.44	13.42	-	-	5.90	19.32	23.01	-3.69
	5290	58	CDD	AVG	13.42	13.34	16.39	23.98	-7.59	5.59	21.98	30.00	-8.02
	5530	106	CDD	AVG	12.85	13.00	15.94	23.98	-8.04	5.45	21.39	30.00	-8.61
	5690	138	CDD	AVG	19.37	19.43	22.41	23.98	-1.57	5.45	27.86	30.00	-2.14
	5775	155	CDD	AVG	17.00	16.93	19.98	30.00	-10.02	6.07	26.05	-	-

Table 7-90. ISED CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (Mid Data Rate)

5GHz (80MHz Bandwidth)	Freq [MHz]	Channel	Mode	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Directional Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
					Antenna 5b	Antenna 4b	Summed						
	5210	42	CDD	AVG	10.42	10.50	13.47	-	-	5.90	19.37	23.01	-3.64
	5290	58	CDD	AVG	12.50	12.47	15.50	23.98	-8.48	5.59	21.09	30.00	-8.91
	5530	106	CDD	AVG	11.91	11.99	14.96	23.98	-9.02	5.45	20.42	30.00	-9.58
	5690	138	CDD	AVG	19.50	19.45	22.49	23.98	-1.49	5.45	27.94	30.00	-2.06
	5775	155	CDD	AVG	15.95	16.00	18.99	30.00	-11.01	6.07	25.06	-	-

Table 7-91. ISED CDD 80MHz BW 802.11ax(SU) (UNII) Maximum Conducted Output Power and Max EIRP (High Data Rate)

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Note:

Per ANSI C63.10-2013 and KDB 662911 v02r01 Section E1), the conducted powers at Antenna 1 and Antenna 2 were first measured separately during CDD/SDM transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2013 Section 14.4.3, the directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Per ANSI C63.10-2013 Section 14.4.3, the uncorrelated directional gain is calculated using the following formula, where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$$

Sample CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted output power was measured to be 12.61 dBm for Antenna 5b and 12.65 dBm for Antenna 4b.

$$\text{Antenna 5b} + \text{Antenna 4b} = \text{CDD/SDM}$$

$$(12.61 \text{ dBm} + 12.65 \text{ dBm}) = (18.24 \text{ mW} + 18.41 \text{ mW}) = 36.65 \text{ mW} = 15.64 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average MIMO conducted power was calculated to be 15.64 dBm with directional gain of 3.12 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power (dBm)} + \text{Ant gain (dBi)}$$

$$15.64 \text{ dBm} + 3.12 \text{ dBi} = 18.76 \text{ dBm}$$

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7.5 Maximum Power Spectral Density – 802.11a/n/ac/ax(SU) §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

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. Method SA-1, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, was used to measure the power spectral density.

In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.

In the 5.15 – 5.25GHz band, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1 MHz band.

In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2

KDB 789033 D02 v02r01 – Section F

ANSI C63.10-2013 – Section 14.3.2.2 Measure-and-Sum Technique

KDB 662911 v02r01 – Section E)2) Measure-and-Sum Technique

Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span/RBW})$
6. Sweep time = auto
7. Detector = power averaging (RMS)
8. Trigger was set to free run for all modes
9. Trace was averaged over 100 sweeps
10. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. The data rates have been classified into three different groups; Low Data Rate, middle rate, and High Data Rate. All three data rate groups of data rate have been investigated and only the worst case data rate per group is reported.
2. Low, mid, and high channels were tested and tabular data has been reported. Only mid channel psd plots have been reported.

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7.5.1 Antenna 5b Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.63	11.0	-4.37
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	8.17	11.0	-2.83
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	8.53	11.0	-2.47
	5180	36	ax-SU (20MHz)	8/8.6 (MCS0)	3.89	11.0	-7.11
	5200	40	ax-SU (20MHz)	8/8.6 (MCS0)	7.60	11.0	-3.40
	5240	48	ax-SU (20MHz)	8/8.6 (MCS0)	6.47	11.0	-4.53
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.25	11.0	-9.75
	5230	46	n (40MHz)	13.5/15 (MCS0)	6.19	11.0	-4.81
	5190	38	ax-SU (40MHz)	16/17.2 (MCS0)	-0.33	11.0	-11.33
	5230	46	ax-SU (40MHz)	16/17.2 (MCS0)	6.65	11.0	-4.35
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-3.94	11.0	-14.94
	5210	42	ax-SU (80MHz)	34/36.0 (MCS0)	-6.68	11.0	-17.68
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	8.97	11.0	-2.03
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	8.35	11.0	-2.65
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	8.44	11.0	-2.56
	5260	52	ax-SU (20MHz)	8/8.6 (MCS0)	6.42	11.0	-4.58
	5280	56	ax-SU (20MHz)	8/8.6 (MCS0)	6.39	11.0	-4.61
	5320	64	ax-SU (20MHz)	8/8.6 (MCS0)	5.69	11.0	-5.31
	5270	54	n (40MHz)	13.5/15 (MCS0)	6.16	11.0	-4.84
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.45	11.0	-8.55
	5270	54	ax-SU (40MHz)	16/17.2 (MCS0)	7.09	11.0	-3.91
	5310	62	ax-SU (40MHz)	16/17.2 (MCS0)	-0.20	11.0	-11.20
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-1.10	11.0	-12.10
	5290	58	ax-SU (80MHz)	34/36.0 (MCS0)	-2.81	11.0	-13.81
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	8.10	11.0	-2.90
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	8.33	11.0	-2.67
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	9.05	11.0	-1.95
	5500	100	ax-SU (20MHz)	8/8.6 (MCS0)	4.49	11.0	-6.51
	5580	116	ax-SU (20MHz)	8/8.6 (MCS0)	6.57	11.0	-4.43
	5720	144	ax-SU (20MHz)	8/8.6 (MCS0)	8.11	11.0	-2.89
	5510	102	n (40MHz)	13.5/15 (MCS0)	1.28	11.0	-9.72
	5550	110	n (40MHz)	13.5/15 (MCS0)	6.08	11.0	-4.92
	*5590	118	n (40MHz)	13.5/15 (MCS0)	5.00	11.0	-6.00
	5710	142	n (40MHz)	13.5/15 (MCS0)	6.47	11.0	-4.53
	5510	102	ax-SU (40MHz)	16/17.2 (MCS0)	2.52	11.0	-8.48
	5550	110	ax-SU (40MHz)	16/17.2 (MCS0)	5.87	11.0	-5.13
	*5590	118	ax-SU (40MHz)	16/17.2 (MCS0)	5.77	11.0	-5.23
	5710	142	ax-SU (40MHz)	16/17.2 (MCS0)	5.47	11.0	-5.53
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.16	11.0	-12.16
	*5610	122	ac (80MHz)	29.3/32.5 (MCS9)	0.90	11.0	-10.10
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	3.23	11.0	-7.77
	5530	106	ax-SU (80MHz)	34/36.0 (MCS0)	-2.04	11.0	-13.04
	*5610	122	ax-SU (80MHz)	34/36.0 (MCS9)	-0.46	11.0	-11.46
	5690	138	ax-SU (80MHz)	34/36.0 (MCS0)	0.00	11.0	-11.00

Table 7-92. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (Low Data Rate)

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

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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	26/28.9 (MCS3)	6.94	11.0	-4.06
	5200	40	n (20MHz)	26/28.9 (MCS3)	8.45	11.0	-2.55
	5240	48	n (20MHz)	26/28.9 (MCS3)	8.89	11.0	-2.11
	5180	36	ax-SU (20MHz)	33/34.4 (MCS3)	3.79	11.0	-7.21
	5200	40	ax-SU (20MHz)	33/34.4 (MCS3)	8.11	11.0	-2.89
	5240	48	ax-SU (20MHz)	33/34.4 (MCS3)	8.09	11.0	-2.91
	5190	38	n (40MHz)	54/60 (MCS3)	1.33	11.0	-9.67
	5230	46	n (40MHz)	54/60 (MCS3)	6.27	11.0	-4.73
	5190	38	ax-SU (40MHz)	65/68.8 (MCS3)	-1.12	11.0	-12.12
	5230	46	ax-SU (40MHz)	65/68.8 (MCS3)	5.19	11.0	-5.81
	5210	42	ac (80MHz)	117/130 (MCS3)	-3.32	11.0	-14.32
	5210	42	ax-SU (80MHz)	567/600.5 (MCS3)	-4.85	11.0	-15.85
Band 2A	5260	52	n (20MHz)	26/28.9 (MCS3)	9.18	11.0	-1.82
	5280	56	n (20MHz)	26/28.9 (MCS3)	8.74	11.0	-2.26
	5320	64	n (20MHz)	26/28.9 (MCS3)	8.51	11.0	-2.49
	5260	52	ax-SU (20MHz)	33/34.4 (MCS3)	8.46	11.0	-2.54
	5280	56	ax-SU (20MHz)	33/34.4 (MCS3)	8.16	11.0	-2.84
	5320	64	ax-SU (20MHz)	33/34.4 (MCS3)	8.15	11.0	-2.85
	5270	54	n (40MHz)	54/60 (MCS3)	6.62	11.0	-4.38
	5310	62	n (40MHz)	54/60 (MCS3)	1.58	11.0	-9.42
	5270	54	ax-SU (40MHz)	65/68.8 (MCS3)	5.25	11.0	-5.75
	5310	62	ax-SU (40MHz)	65/68.8 (MCS3)	0.58	11.0	-10.42
	5290	58	ac (80MHz)	117/130 (MCS3)	-1.12	11.0	-12.12
	5290	58	ax-SU (80MHz)	567/600.5 (MCS3)	-2.98	11.0	-13.98
Band 2C	5500	100	n (20MHz)	26/28.9 (MCS3)	6.72	11.0	-4.28
	5580	116	n (20MHz)	26/28.9 (MCS3)	8.89	11.0	-2.11
	5720	144	n (20MHz)	26/28.9 (MCS3)	9.34	11.0	-1.66
	5500	100	ax-SU (20MHz)	33/34.4 (MCS3)	7.84	11.0	-3.16
	5580	116	ax-SU (20MHz)	33/34.4 (MCS3)	7.77	11.0	-3.23
	5720	144	ax-SU (20MHz)	33/34.4 (MCS3)	7.71	11.0	-3.29
	5510	102	n (40MHz)	54/60 (MCS3)	0.68	11.0	-10.32
	5550	110	n (40MHz)	54/60 (MCS3)	6.47	11.0	-4.53
	*5590	118	n (40MHz)	54/60 (MCS3)	5.91	11.0	-5.09
	5710	142	n (40MHz)	54/60 (MCS3)	6.91	11.0	-4.09
	5510	102	ax-SU (40MHz)	65/68.8 (MCS3)	-0.39	11.0	-11.39
	5550	110	ax-SU (40MHz)	65/68.8 (MCS3)	5.51	11.0	-5.49
	*5590	118	ax-SU (40MHz)	65/68.8 (MCS3)	5.68	11.0	-5.32
	5710	142	ax-SU (40MHz)	65/68.8 (MCS3)	5.73	11.0	-5.27
	5530	106	ac (80MHz)	117/130 (MCS3)	-1.12	11.0	-12.12
	*5610	122	ac (80MHz)	117/130 (MCS3)	1.00	11.0	-10.00
	5690	138	ac (80MHz)	117/130 (MCS3)	4.04	11.0	-6.96
	5530	106	ax-SU (80MHz)	567/600.5 (MCS3)	-2.98	11.0	-13.98
	*5610	122	ax-SU (80MHz)	567/600.5 (MCS3)	-1.31	11.0	-12.31
	5690	138	ax-SU (80MHz)	567/600.5 (MCS3)	0.05	11.0	-10.95

Table 7-93. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (Mid Data Rate)

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

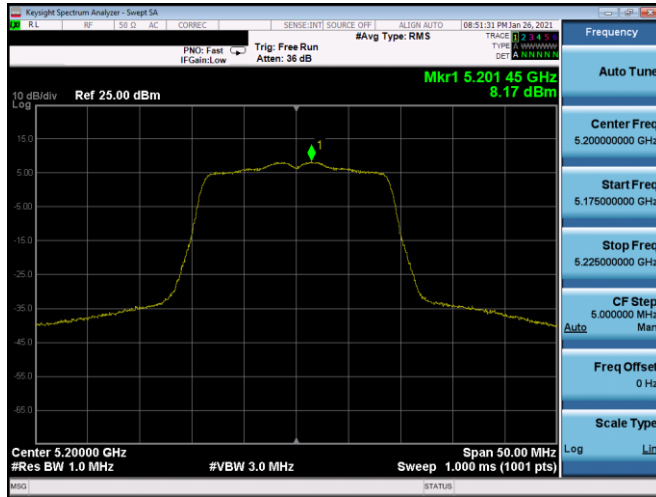
FCC ID: BCGA2379 IC: 579C-A2379	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	52/57.8 (MCS5)	4.29	11.0	-6.71
	5200	40	n (20MHz)	52/57.8 (MCS5)	7.37	11.0	-3.63
	5240	48	n (20MHz)	52/57.8 (MCS5)	7.72	11.0	-3.28
	5180	36	ax-SU (20MHz)	135/143.4 (MCS11)	4.12	11.0	-6.88
	5200	40	ax-SU (20MHz)	135/143.4 (MCS11)	8.28	11.0	-2.72
	5240	48	ax-SU (20MHz)	135/143.4 (MCS11)	8.39	11.0	-2.61
	5190	38	n (40MHz)	108/120 (MCS5)	-0.96	11.0	-11.96
	5230	46	n (40MHz)	108/120 (MCS5)	5.40	11.0	-5.60
	5190	38	ax-SU (40MHz)	271/286.8 (MCS11)	-0.96	11.0	-11.96
	5230	46	ax-SU (40MHz)	271/286.8 (MCS11)	5.41	11.0	-5.59
Band 2A	5210	42	ac (80MHz)	292.5/325 (MCS5)	-5.01	11.0	-16.01
	5210	42	ax-SU (80MHz)	567/600.5 (MCS11)	-5.81	11.0	-16.81
	5260	52	n (20MHz)	52/57.8 (MCS5)	7.81	11.0	-3.19
	5280	56	n (20MHz)	52/57.8 (MCS5)	7.74	11.0	-3.26
	5320	64	n (20MHz)	52/57.8 (MCS5)	5.94	11.0	-5.06
	5260	52	ax-SU (20MHz)	135/143.4 (MCS11)	8.61	11.0	-2.39
	5280	56	ax-SU (20MHz)	135/143.4 (MCS11)	8.51	11.0	-2.49
	5320	64	ax-SU (20MHz)	135/143.4 (MCS11)	6.28	11.0	-4.72
	5270	54	n (40MHz)	108/120 (MCS5)	5.41	11.0	-5.59
	5310	62	n (40MHz)	108/120 (MCS5)	0.16	11.0	-10.84
Band 2C	5270	54	ax-SU (40MHz)	271/286.8 (MCS11)	5.45	11.0	-5.55
	5310	62	ax-SU (40MHz)	271/286.8 (MCS11)	1.29	11.0	-9.71
	5290	58	ac (80MHz)	292.5/325 (MCS5)	-2.85	11.0	-13.85
	5290	58	ax-SU (80MHz)	567/600.5 (MCS11)	-3.14	11.0	-14.14
	5500	100	n (20MHz)	52/57.8 (MCS5)	3.83	11.0	-7.17
	5580	116	n (20MHz)	52/57.8 (MCS5)	7.38	11.0	-3.62
	5720	144	n (20MHz)	52/57.8 (MCS5)	8.04	11.0	-2.96
	5500	100	ax-SU (20MHz)	135/143.4 (MCS11)	4.12	11.0	-6.88
	5580	116	ax-SU (20MHz)	135/143.4 (MCS11)	8.11	11.0	-2.89
	5720	144	ax-SU (20MHz)	135/143.4 (MCS11)	3.10	11.0	-7.90
	5510	102	n (40MHz)	108/120 (MCS5)	-1.91	11.0	-12.91
	5550	110	n (40MHz)	108/120 (MCS5)	4.67	11.0	-6.33
	*5590	118	n (40MHz)	108/120 (MCS5)	4.44	11.0	-6.56
	5710	142	n (40MHz)	108/120 (MCS5)	5.88	11.0	-5.12
	5510	102	ax-SU (40MHz)	271/286.8 (MCS11)	-0.11	11.0	-11.11
	5550	110	ax-SU (40MHz)	271/286.8 (MCS11)	3.60	11.0	-7.40
	*5590	118	ax-SU (40MHz)	271/286.8 (MCS11)	4.55	11.0	-6.45
	5710	142	ax-SU (40MHz)	271/286.8 (MCS11)	6.20	11.0	-4.80
	5530	106	ac (80MHz)	292.5/325 (MCS5)	-3.28	11.0	-14.28
	*5610	122	ac (80MHz)	292.5/325 (MCS5)	-1.44	11.0	-12.44
	5690	138	ac (80MHz)	292.5/325 (MCS5)	2.67	11.0	-8.33
	5530	106	ax-SU (80MHz)	567/600.5 (MCS11)	-4.67	11.0	-15.67
	*5610	122	ax-SU (80MHz)	567/600.5 (MCS11)	-2.22	11.0	-13.22
	5690	138	ax-SU (80MHz)	567/600.5 (MCS11)	0.59	11.0	-10.41

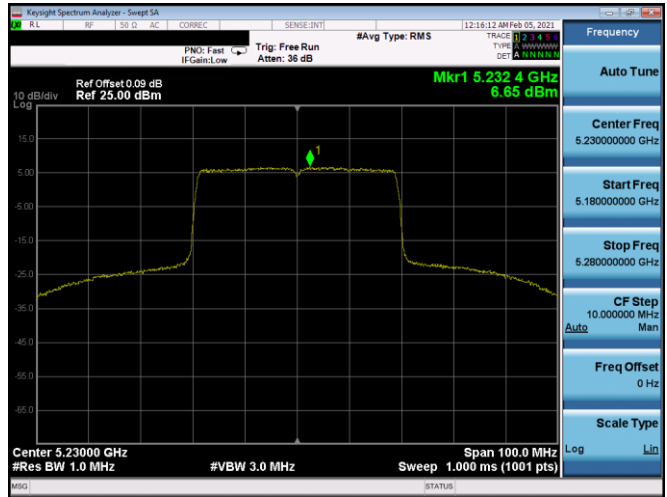
Table 7-94. Bands 1, 2A, 2C Power Spectral Density Measurements Antenna 5b (High Data Rate)

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

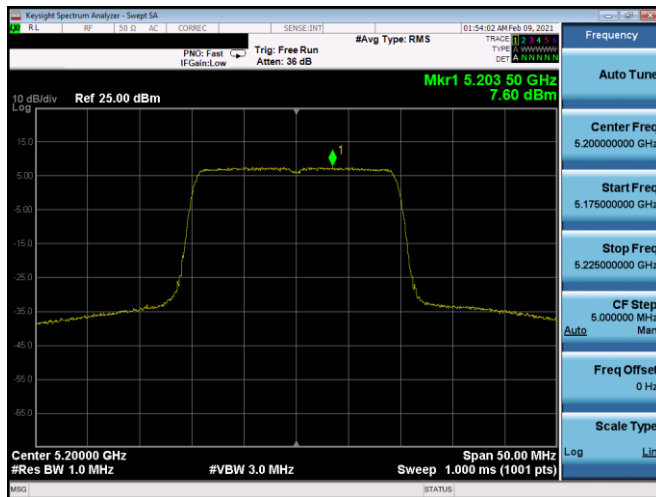
FCC ID: BCGA2379 IC: 579C-A2379	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 86 of 348



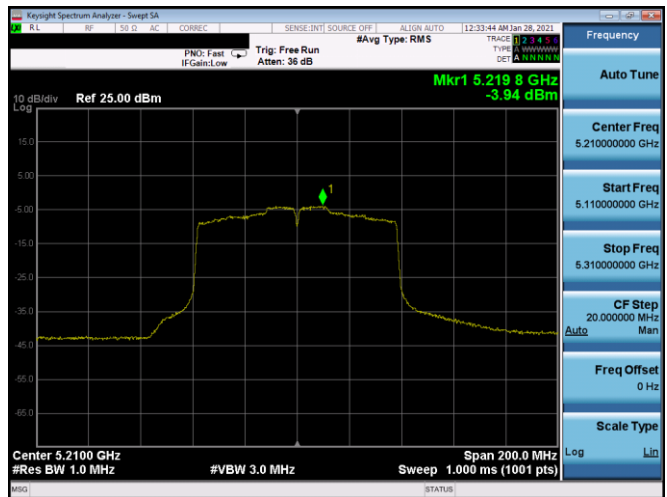
Plot 7-145. PSD Antenna 5b (20MHz BW 802.11n – Ch. 40, MCS0)



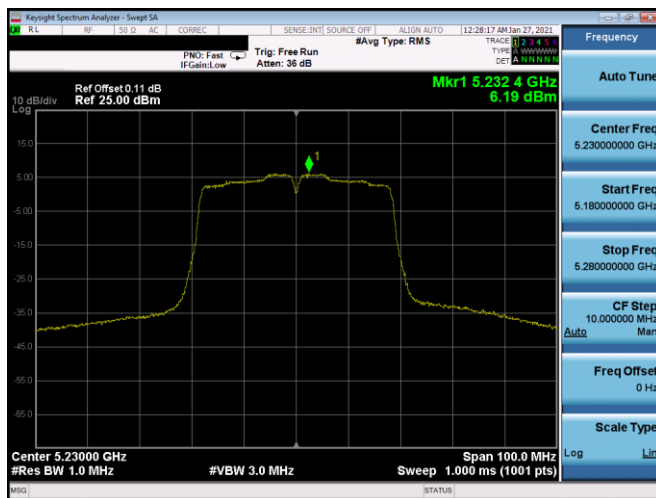
Plot 7-148. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 46, MCS0)



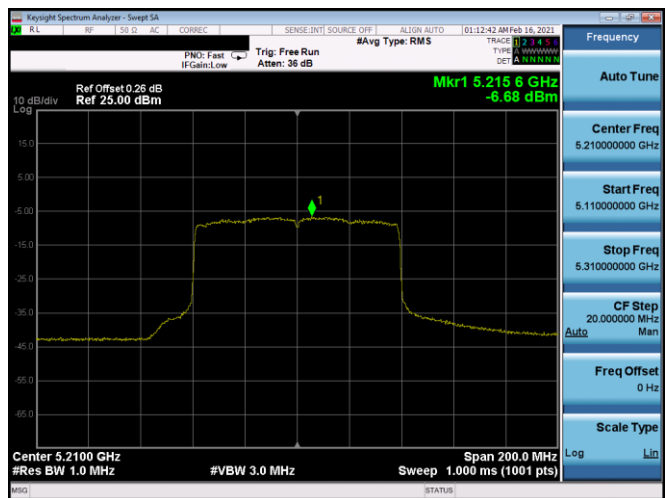
Plot 7-146. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 40, MCS0)



Plot 7-149. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 42, MCS0)

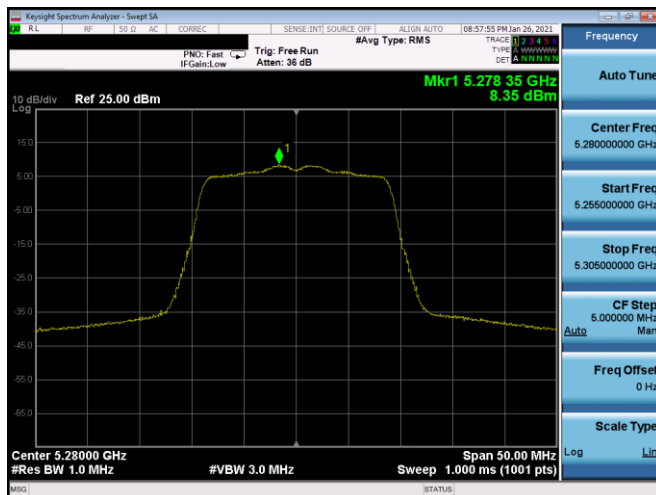


Plot 7-147. PSD Antenna 5b (40MHz BW 802.11n – Ch. 46, MCS0)

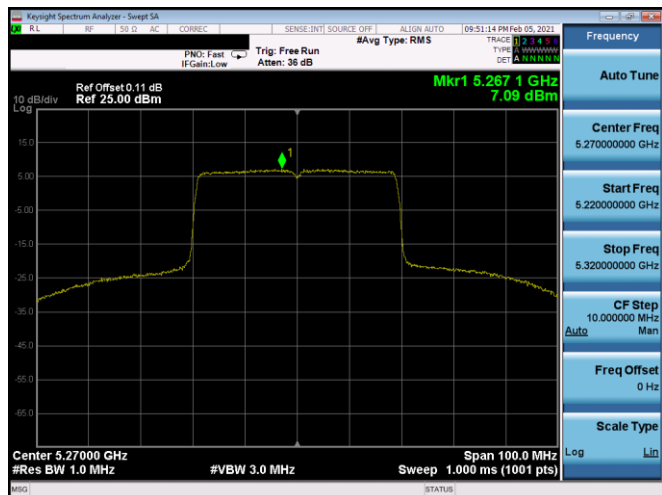


Plot 7-150. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 42, MCS0)

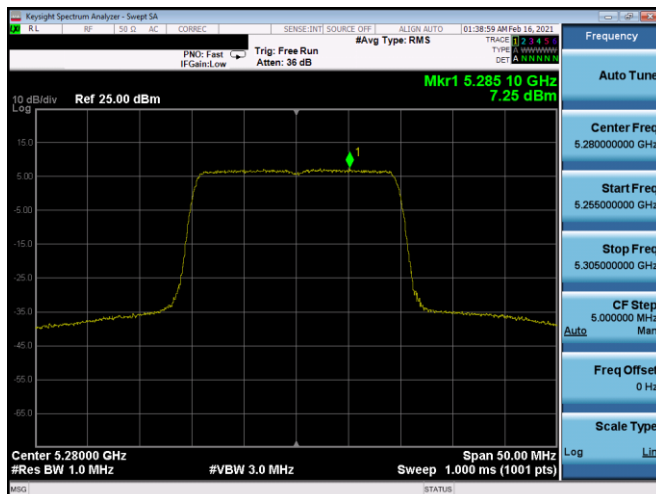
FCC ID: BCGA2379 IC: 579C-A2379			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 87 of 348



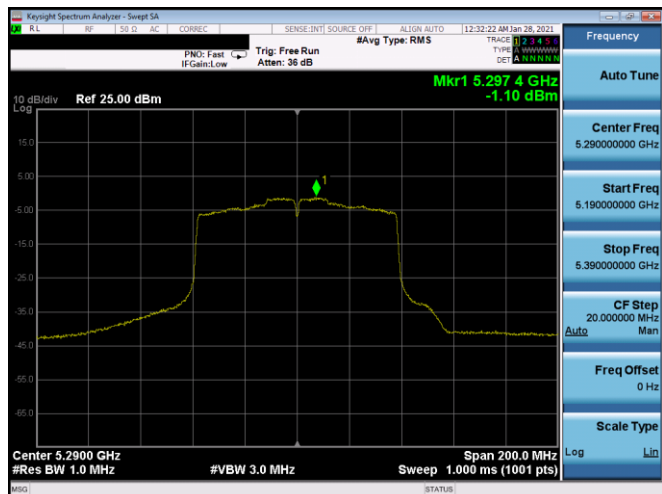
Plot 7-151. PSD Antenna 5b (20MHz BW 802.11n – Ch. 56, MCS0)



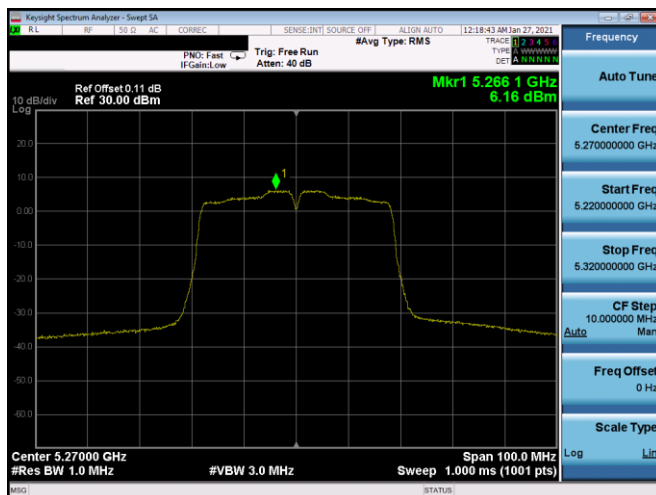
Plot 7-154. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 54, MCS0)



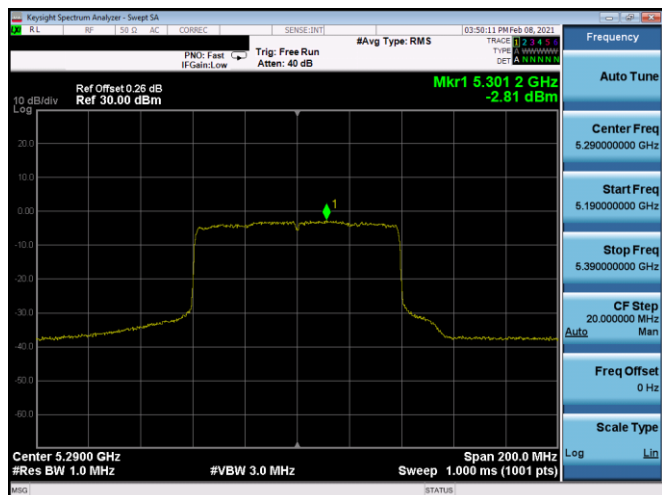
Plot 7-152. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 56, MCS0)



Plot 7-155. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 58, MCS0)

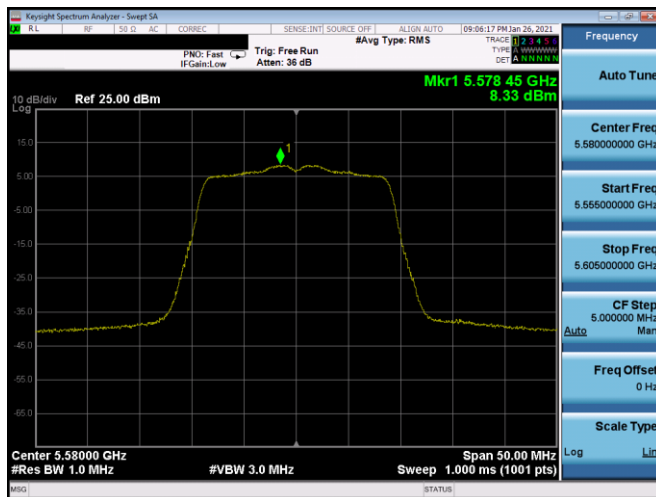


Plot 7-153. PSD Antenna 5b (40MHz BW 802.11n – Ch. 54, MCS0)

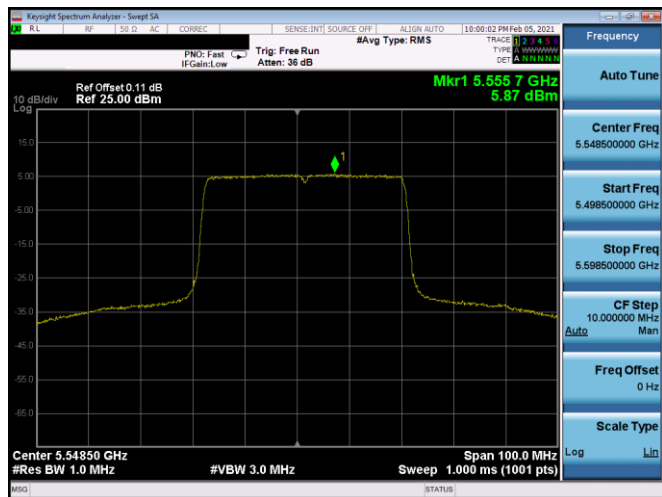


Plot 7-156. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 58, MCS0)

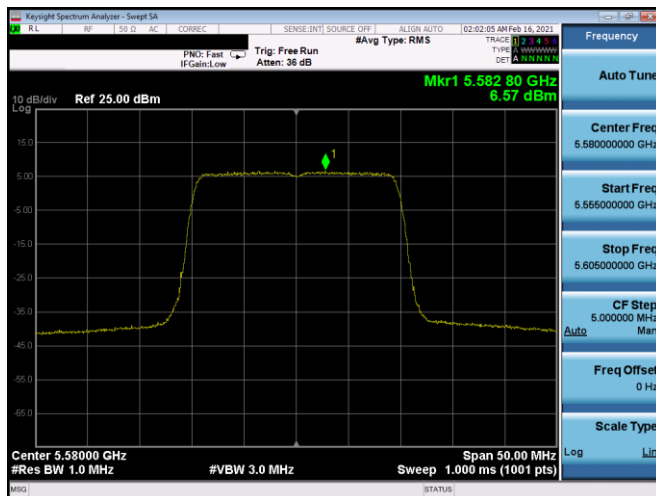
FCC ID: BCGA2379 IC: 579C-A2379			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 88 of 348



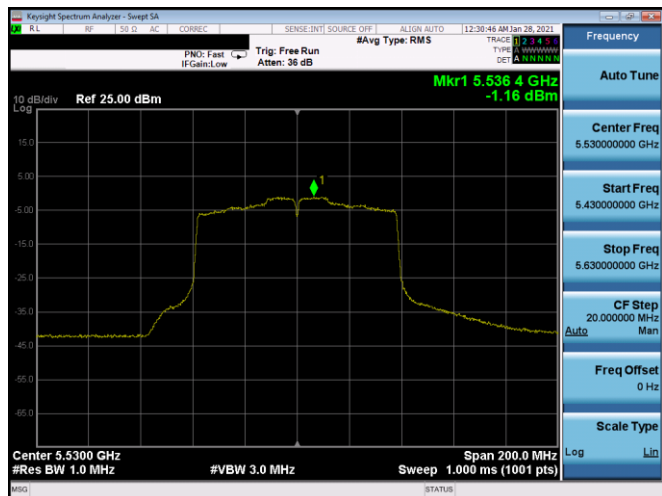
Plot 7-157. PSD Antenna 5b (20MHz BW 802.11n – Ch. 116, MCS0)



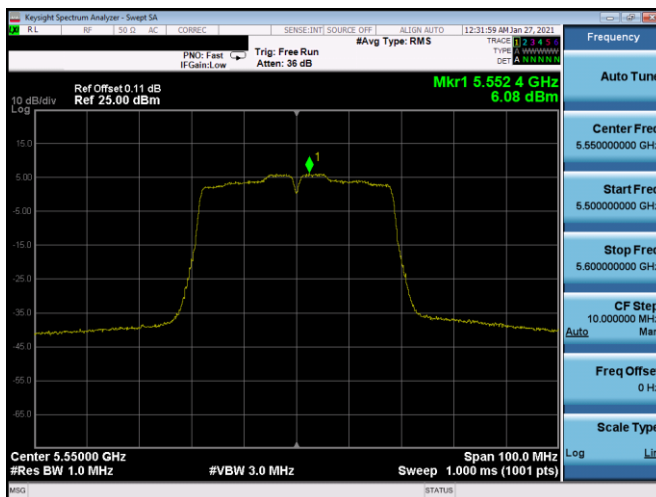
Plot 7-160. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 110, MCS0)



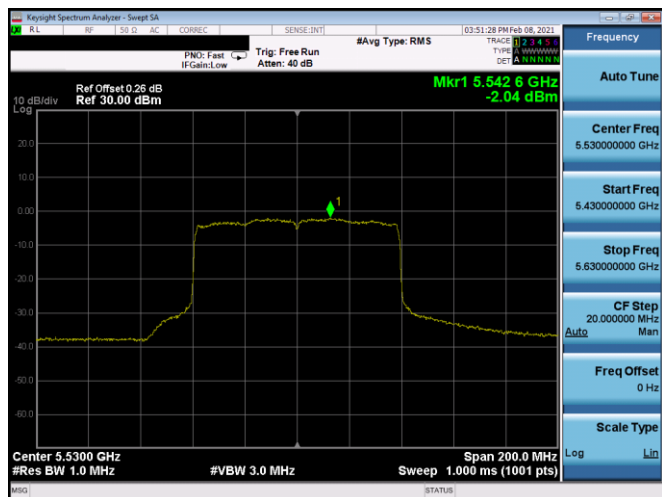
Plot 7-158. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 116, MCS0)



Plot 7-161. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 106, MCS0)

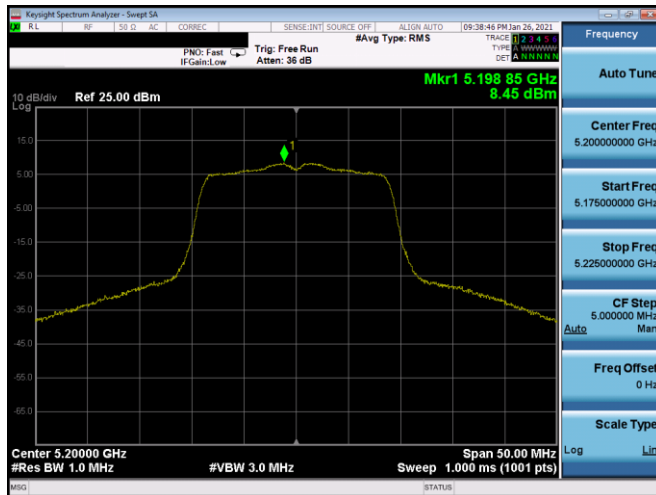


Plot 7-159. PSD Antenna 5b (40MHz BW 802.11n – Ch. 110, MCS0)

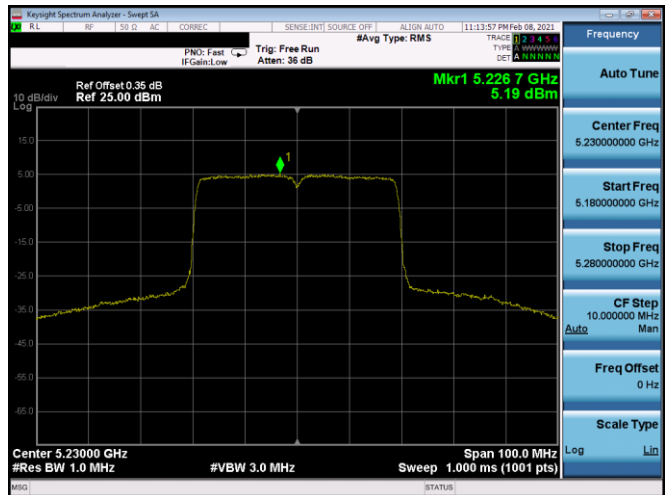


Plot 7-162. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 106, MCS0)

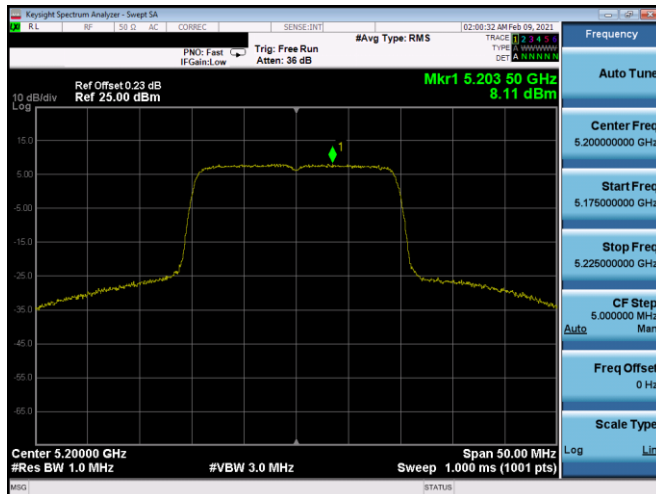
FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 89 of 348



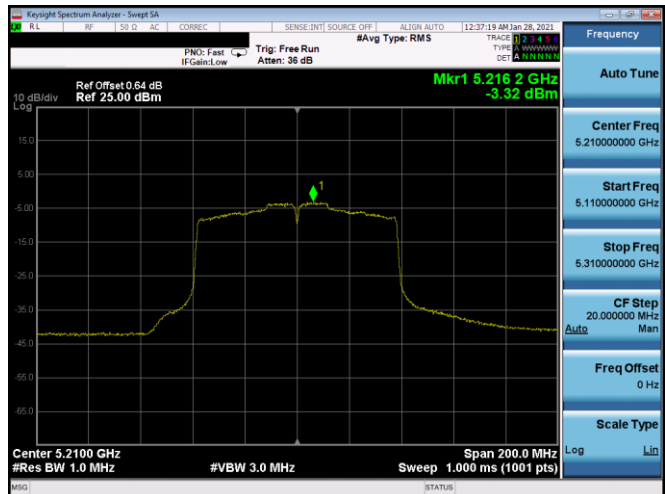
Plot 7-163. PSD Antenna 5b (20MHz BW 802.11n – Ch. 40, MCS3)



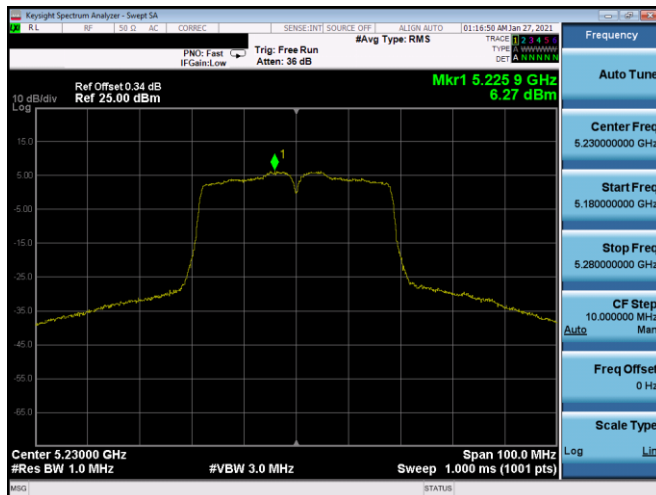
Plot 7-166. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 46, MCS3)



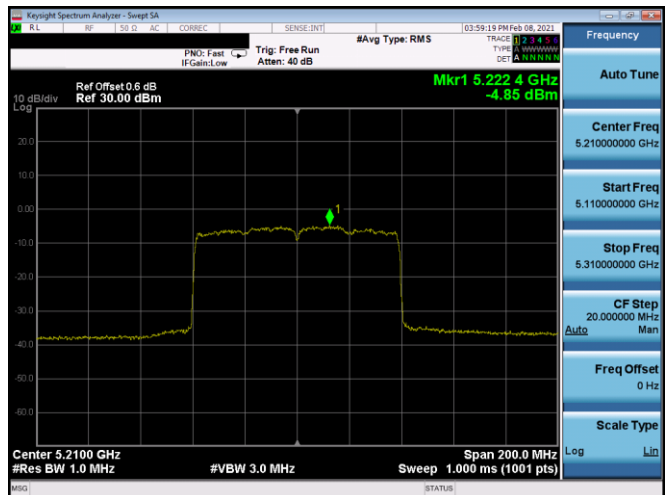
Plot 7-164. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 40, MCS3)



Plot 7-167. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 42, MCS3)

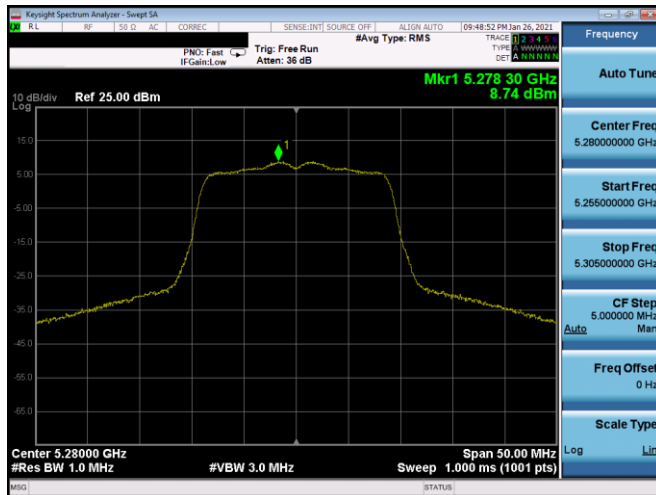


Plot 7-165. PSD Antenna 5b (40MHz BW 802.11n – Ch. 46, MCS3)

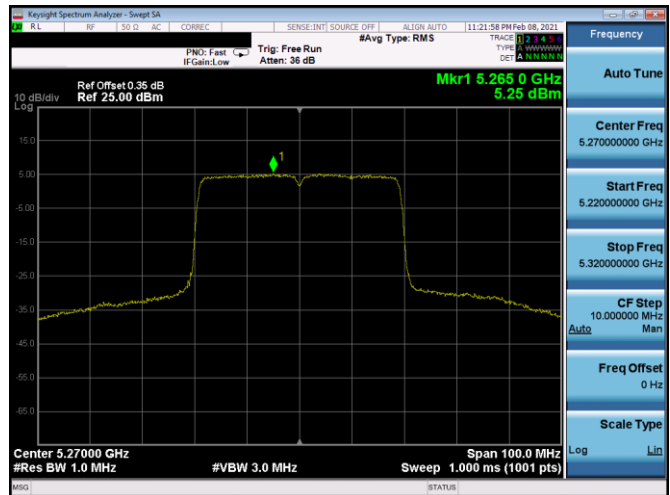


Plot 7-168. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 42, MCS3)

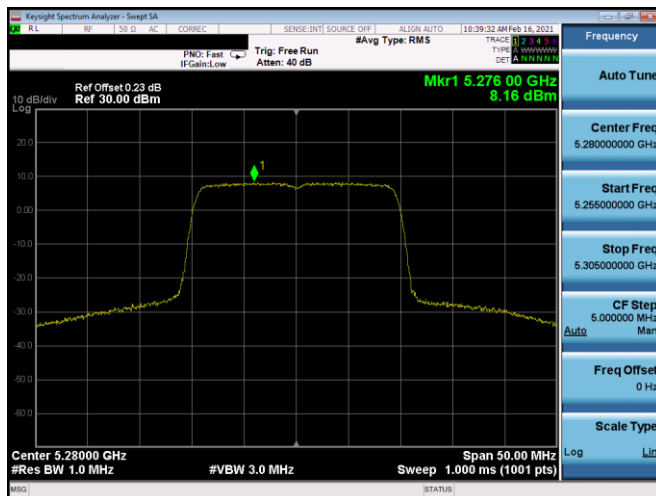
FCC ID: BCGA2379 IC: 579C-A2379		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 90 of 348



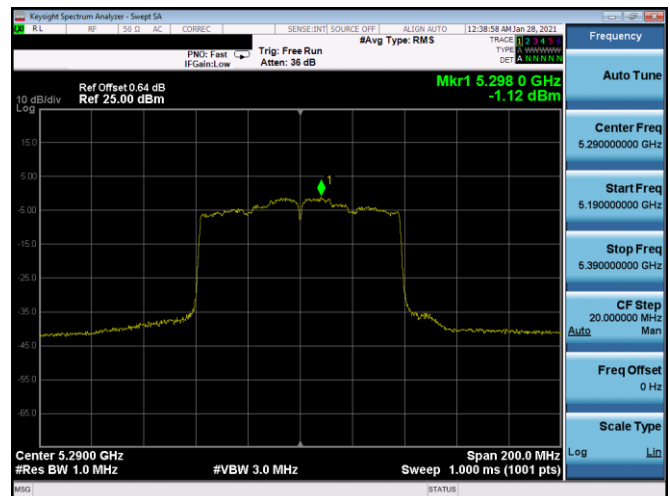
Plot 7-169. PSD Antenna 5b (20MHz BW 802.11n – Ch. 56, MCS3)



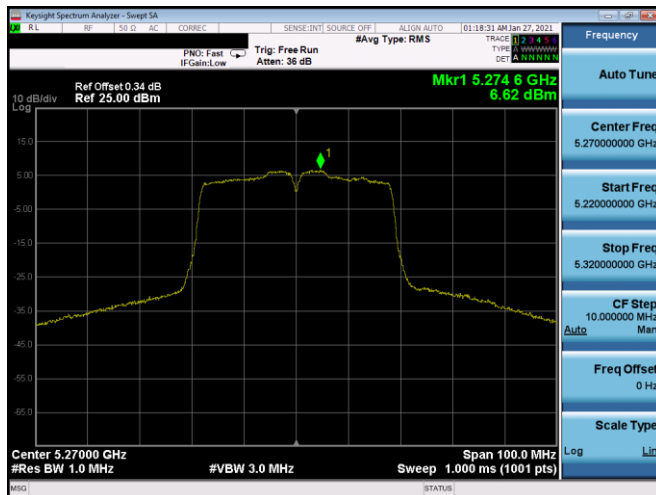
Plot 7-172. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 54, MCS3)



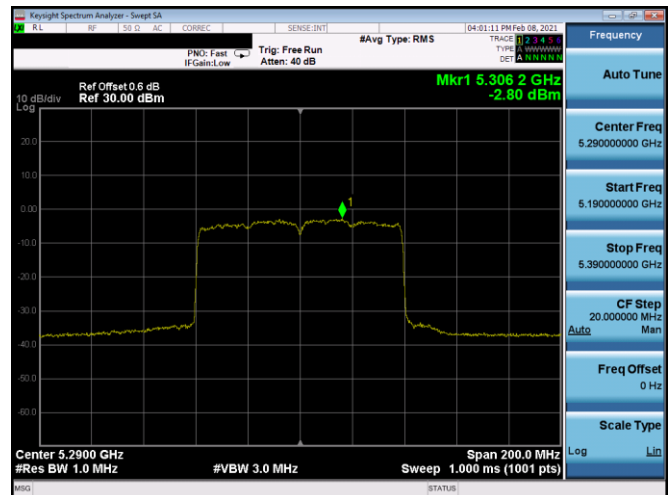
Plot 7-170. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 56, MCS3)



Plot 7-173. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 58, MCS3)

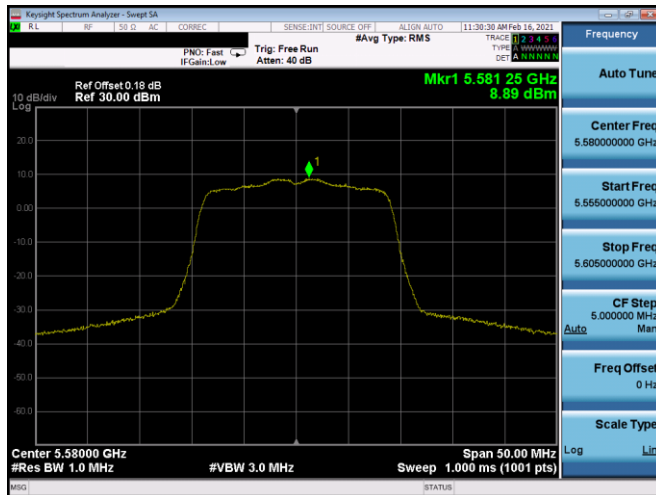


Plot 7-171. PSD Antenna 5b (40MHz BW 802.11n – Ch. 54, MCS3)

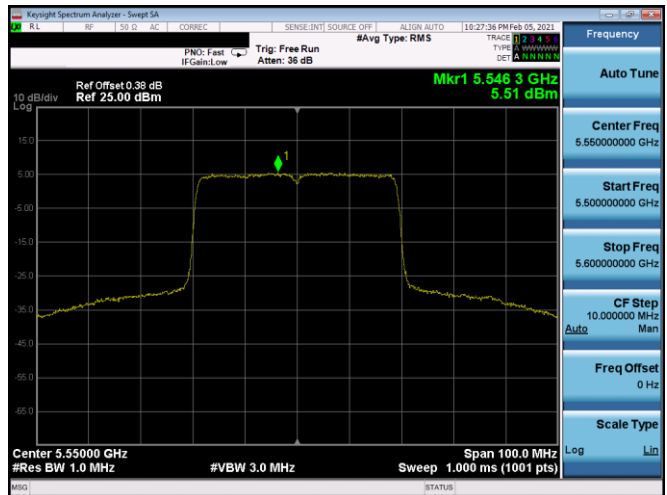


Plot 7-174. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 58, MCS3)

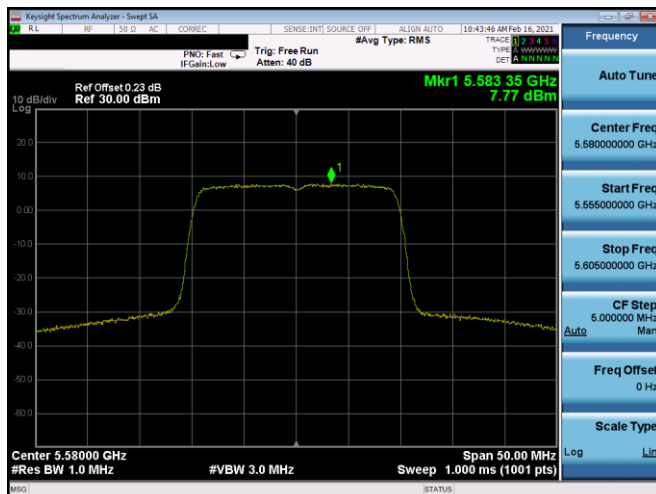
FCC ID: BCGA2379 IC: 579C-A2379			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 91 of 348



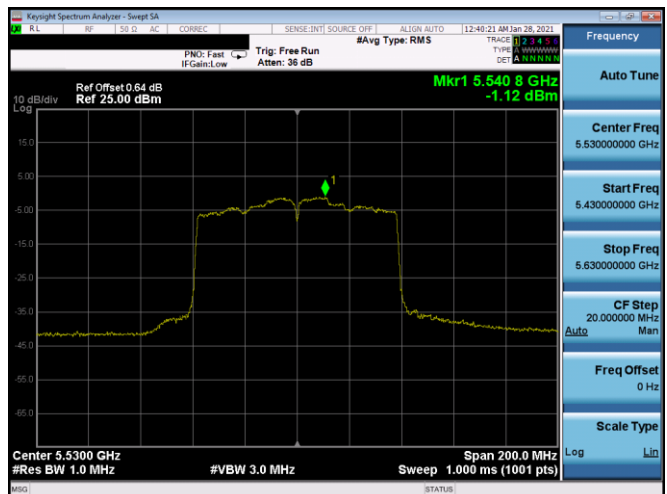
Plot 7-175. PSD Antenna 5b (20MHz BW 802.11n – Ch. 116, MCS3)



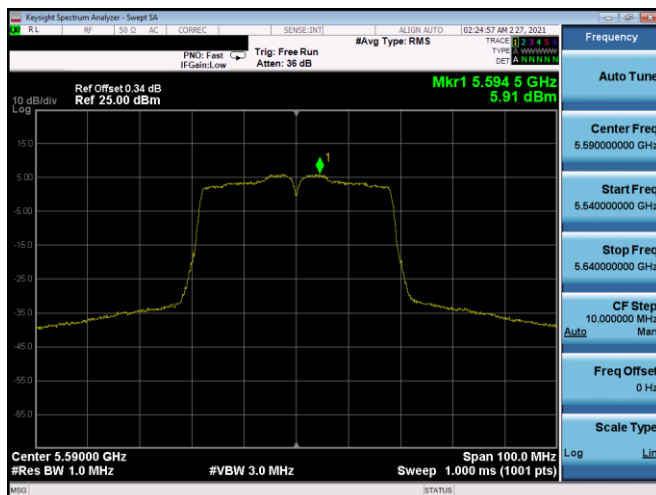
Plot 7-178. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 110, MCS3)



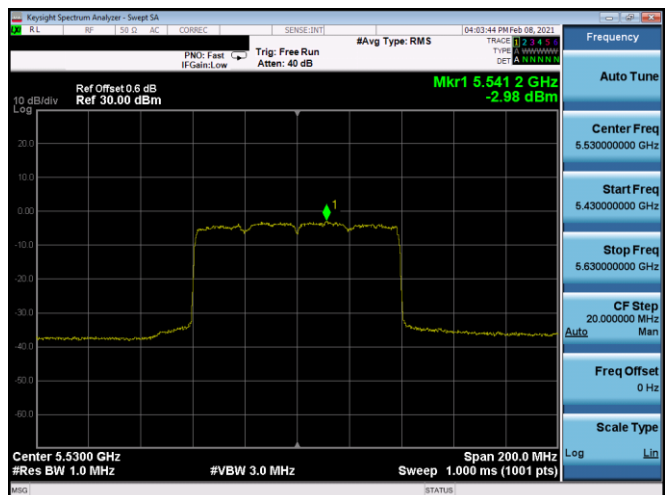
Plot 7-176. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 116, MCS3)



Plot 7-179. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 106, MCS3)

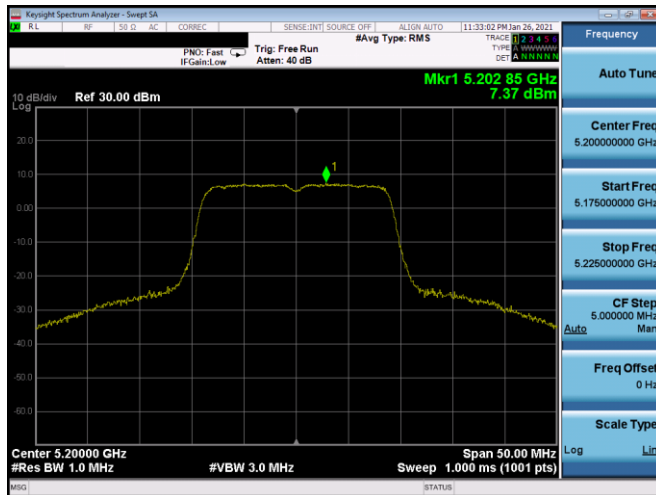


Plot 7-177. PSD Antenna 5b (40MHz BW 802.11n – Ch. 110, MCS3)

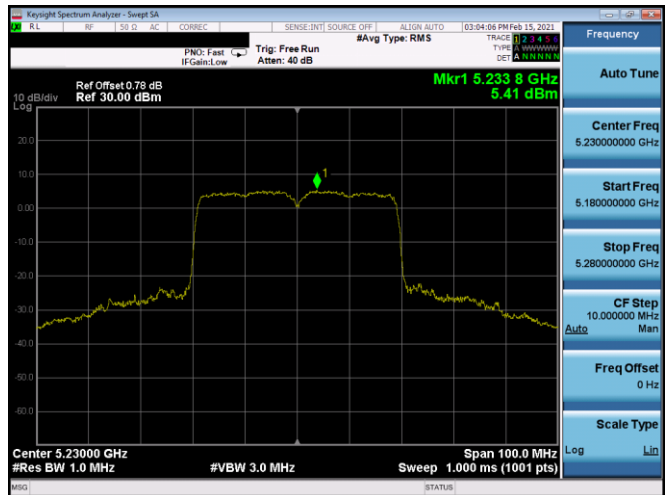


Plot 7-180. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 106, MCS3)

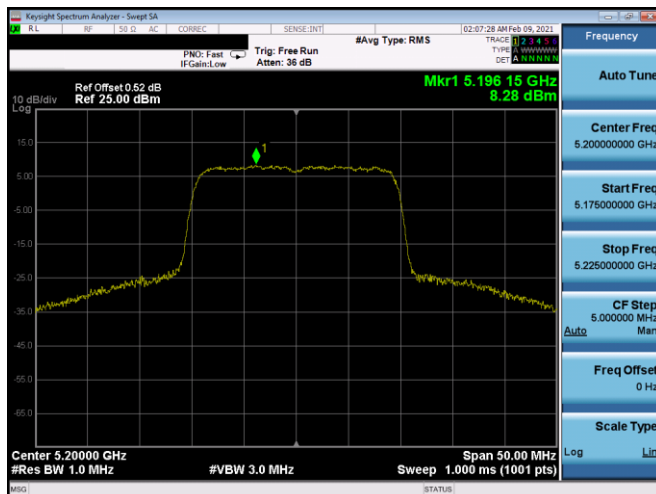
FCC ID: BCGA2379 IC: 579C-A2379			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 92 of 348



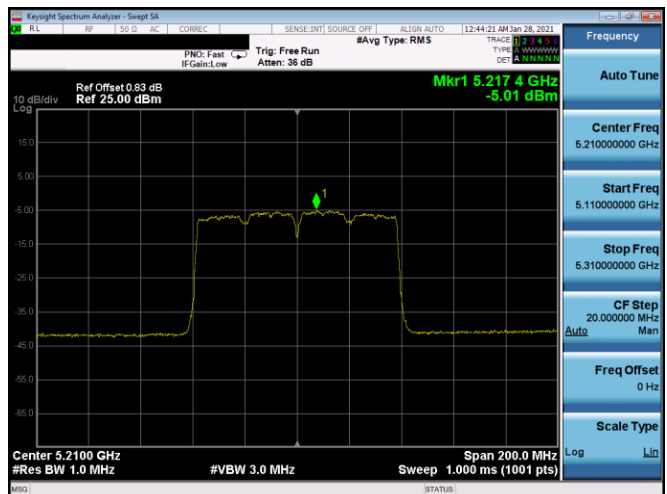
Plot 7-181. PSD Antenna 5b (20MHz BW 802.11n – Ch. 40, MCS5)



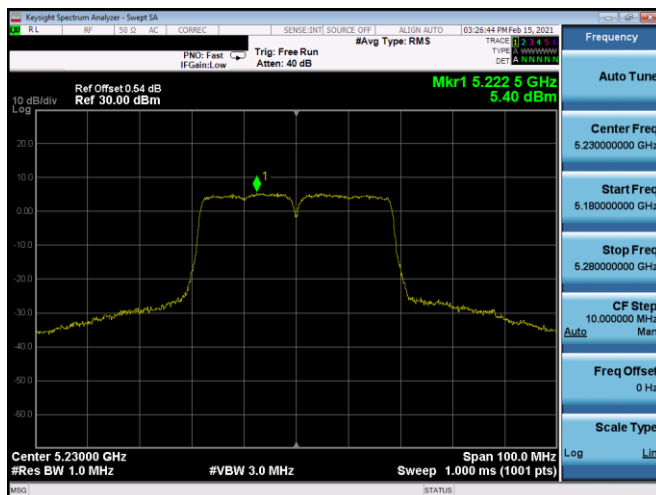
Plot 7-184. PSD Antenna 5b (40MHz BW 802.11ax(SU) – Ch. 46, MCS11)



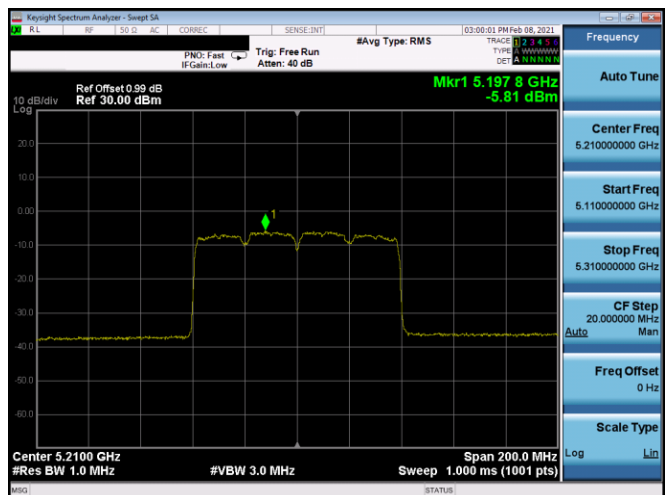
Plot 7-182. PSD Antenna 5b (20MHz BW 802.11ax(SU) – Ch. 40, MCS11)



Plot 7-185. PSD Antenna 5b (80MHz BW 802.11ac – Ch. 42, MCS5)

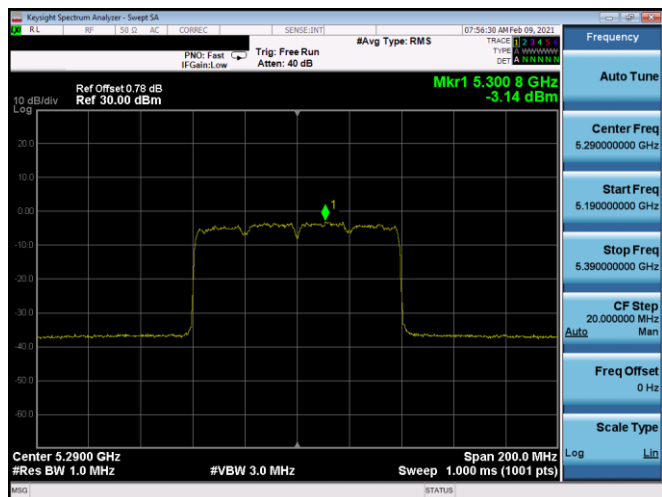
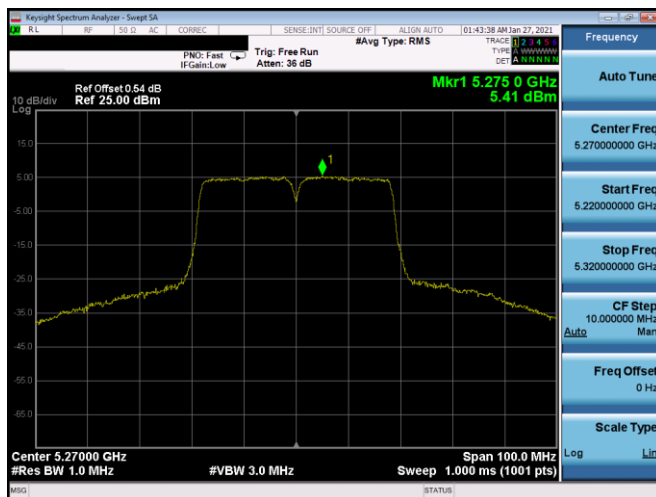
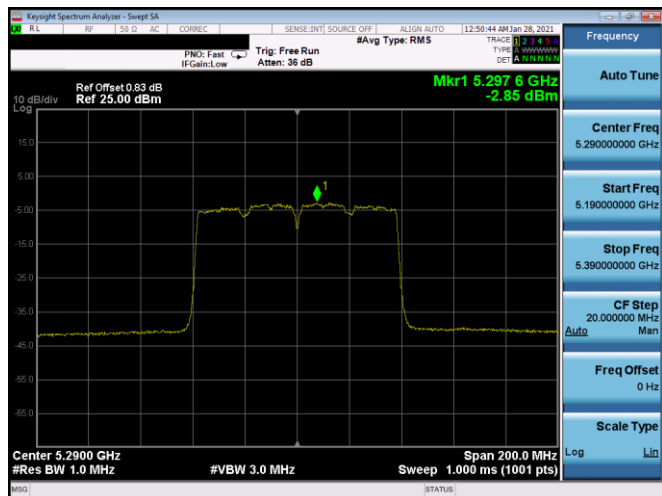
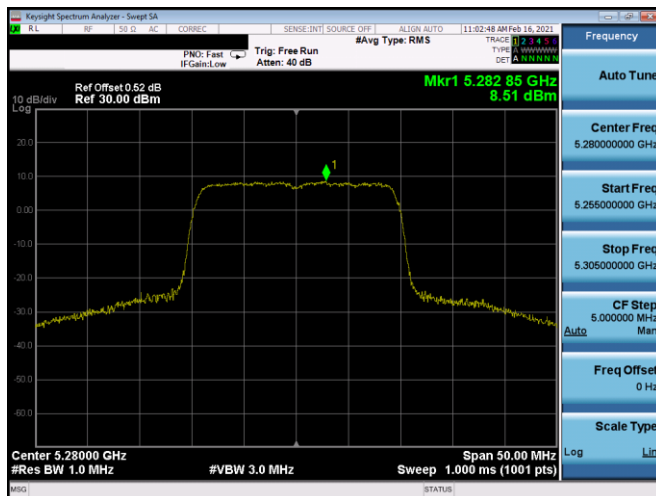
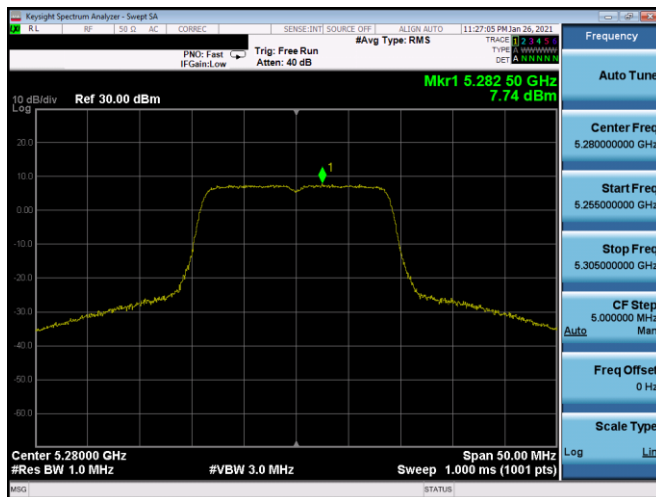


Plot 7-183. PSD Antenna 5b (40MHz BW 802.11n – Ch. 46, MCS5)

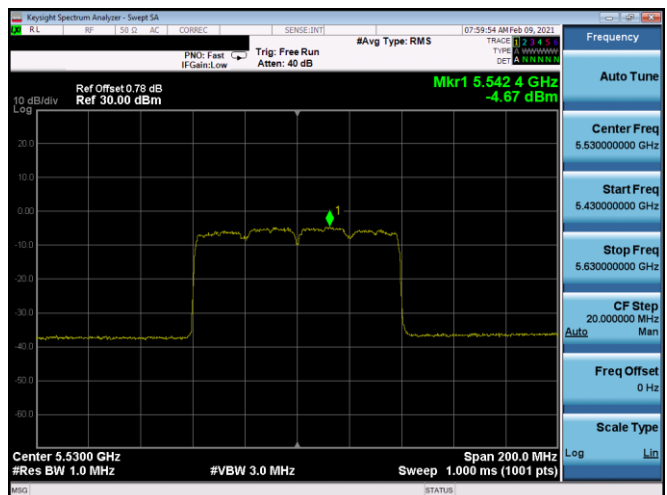
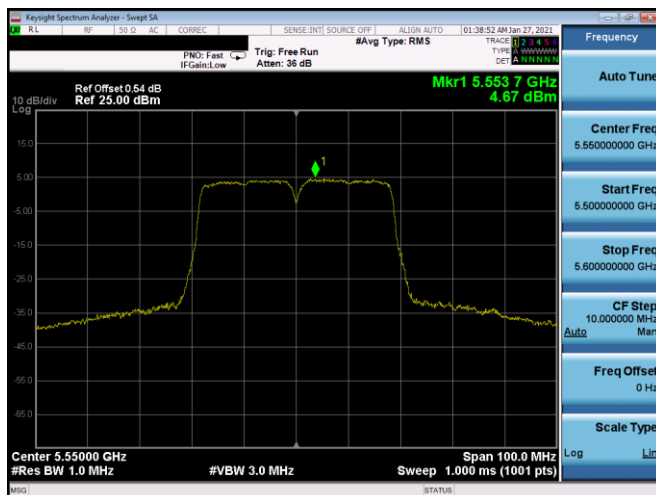
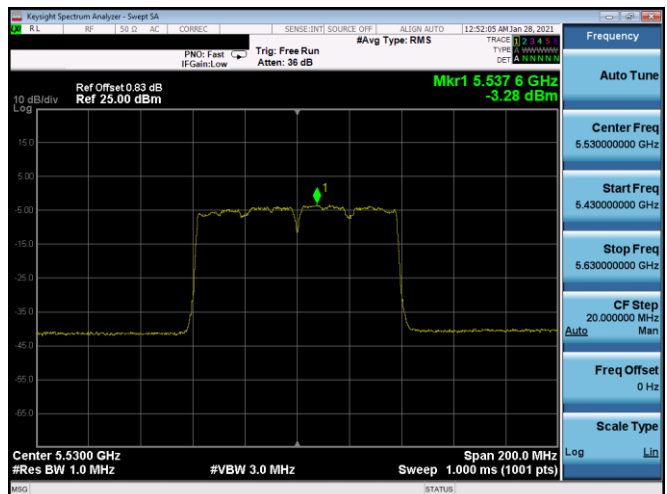
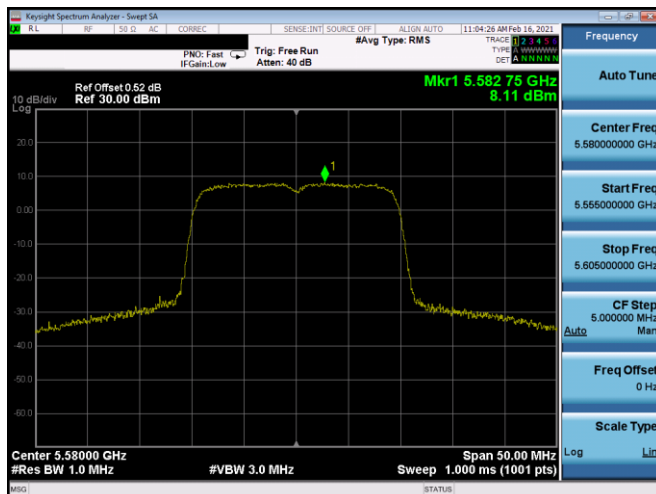
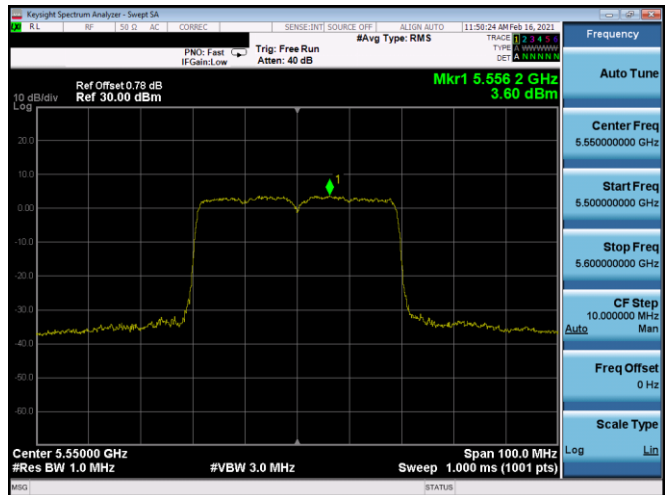
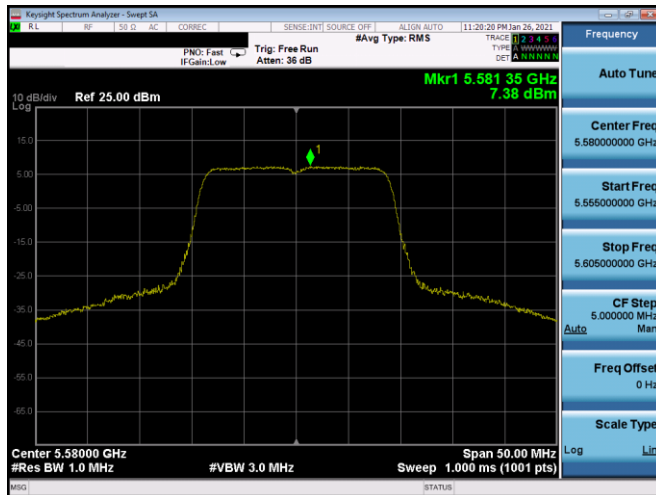


Plot 7-186. PSD Antenna 5b (80MHz BW 802.11ax(SU) – Ch. 42, MCS11)

FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 93 of 348



FCC ID: BCGA2379 IC: 579C-A2379			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 94 of 348



FCC ID: BCGA2379 IC: 579C-A2379	 PCTEST Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device		Page 95 of 348

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.34	30.0	-23.66
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	6.08	30.0	-23.92
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.19	30.0	-23.81
	5745	149	ax-SU (20MHz)	8/8.6 (MCS0)	8.80	30.0	-21.20
	5785	157	ax-SU (20MHz)	8/8.6 (MCS0)	4.90	30.0	-25.10
	5825	165	ax-SU (20MHz)	8/8.6 (MCS0)	8.75	30.0	-21.25
	5755	151	n (40MHz)	13.5/15 (MCS0)	3.61	30.0	-26.39
	5795	159	n (40MHz)	13.5/15 (MCS0)	3.26	30.0	-26.74
	5755	151	ax-SU (40MHz)	16/17.2 (MCS0)	5.38	30.0	-24.62
	5795	159	ax-SU (40MHz)	16/17.2 (MCS0)	7.08	30.0	-22.92
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	0.77	30.0	-29.23
	5775	155	ax-SU (80MHz)	34/36.0 (MCS0)	-0.20	30.0	-30.20

Table 7-95. Band 3 Power Spectral Density Measurements Antenna 5b (Low Data Rate)

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	26/28.9 (MCS3)	6.72	30.0	-23.28
	5785	157	n (20MHz)	26/28.9 (MCS3)	6.37	30.0	-23.63
	5825	165	n (20MHz)	26/28.9 (MCS3)	6.52	30.0	-23.48
	5745	149	ax-SU (20MHz)	33/34.4 (MCS3)	7.84	30.0	-22.16
	5785	157	ax-SU (20MHz)	33/34.4 (MCS3)	5.65	30.0	-24.35
	5825	165	ax-SU (20MHz)	33/34.4 (MCS3)	7.71	30.0	-22.29
	5755	151	n (40MHz)	54/60 (MCS3)	3.88	30.0	-26.12
	5795	159	n (40MHz)	54/60 (MCS3)	3.90	30.0	-26.10
	5755	151	ax-SU (40MHz)	65/68.8 (MCS3)	5.30	30.0	-24.70
	5795	159	ax-SU (40MHz)	65/68.8 (MCS3)	5.93	30.0	-24.07
	5775	155	ac (80MHz)	117/130 (MCS3)	0.62	30.0	-29.38
	5775	155	ax-SU (80MHz)	567/600.5 (MCS3)	0.40	30.0	-29.60

Table 7-96. Band 3 Power Spectral Density Measurements Antenna 5b (Mid Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device	Page 96 of 348

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	52/57.8 (MCS5)	5.64	30.0	-24.36
	5785	157	n (20MHz)	52/57.8 (MCS5)	5.29	30.0	-24.71
	5825	165	n (20MHz)	52/57.8 (MCS5)	5.55	30.0	-24.45
	5745	149	ax-SU (20MHz)	135/143.4 (MCS11)	6.86	30.0	-23.14
	5785	157	ax-SU (20MHz)	135/143.4 (MCS11)	5.67	30.0	-24.33
	5825	165	ax-SU (20MHz)	135/143.4 (MCS11)	6.79	30.0	-23.21
	5755	151	n (40MHz)	108/120 (MCS5)	2.85	30.0	-27.15
	5795	159	n (40MHz)	108/120 (MCS5)	2.61	30.0	-27.39
	5755	151	ax-SU (40MHz)	271/286.8 (MCS11)	4.37	30.0	-25.63
	5795	159	ax-SU (40MHz)	271/286.8 (MCS11)	4.54	30.0	-25.46
	5775	155	ac (80MHz)	292.5/325 (MCS5)	-2.07	30.0	-32.07
	5775	155	ax-SU (80MHz)	567/600.5 (MCS11)	0.45	30.0	-29.56

Table 7-97. Band 3 Power Spectral Density Measurements Antenna 5b (High Data Rate)

FCC ID: BCGA2379 IC: 579C-A2379	 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020005-15-R1.BCG	Test Dates: 12/12/2020 - 03/2/2021	EUT Type: Tablet Device
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