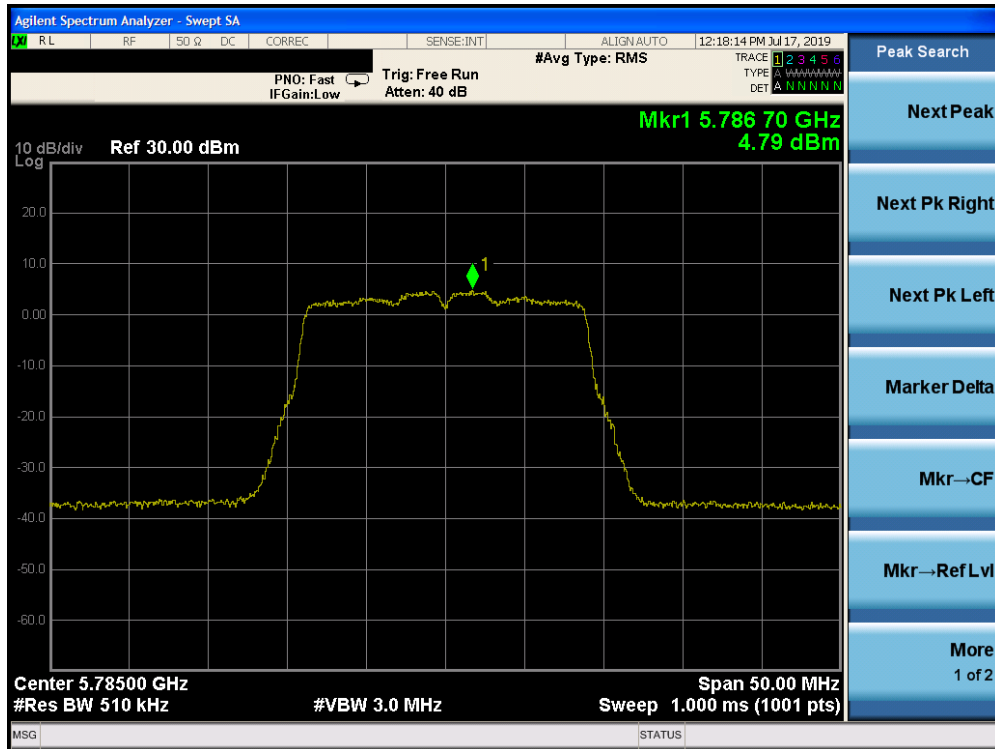
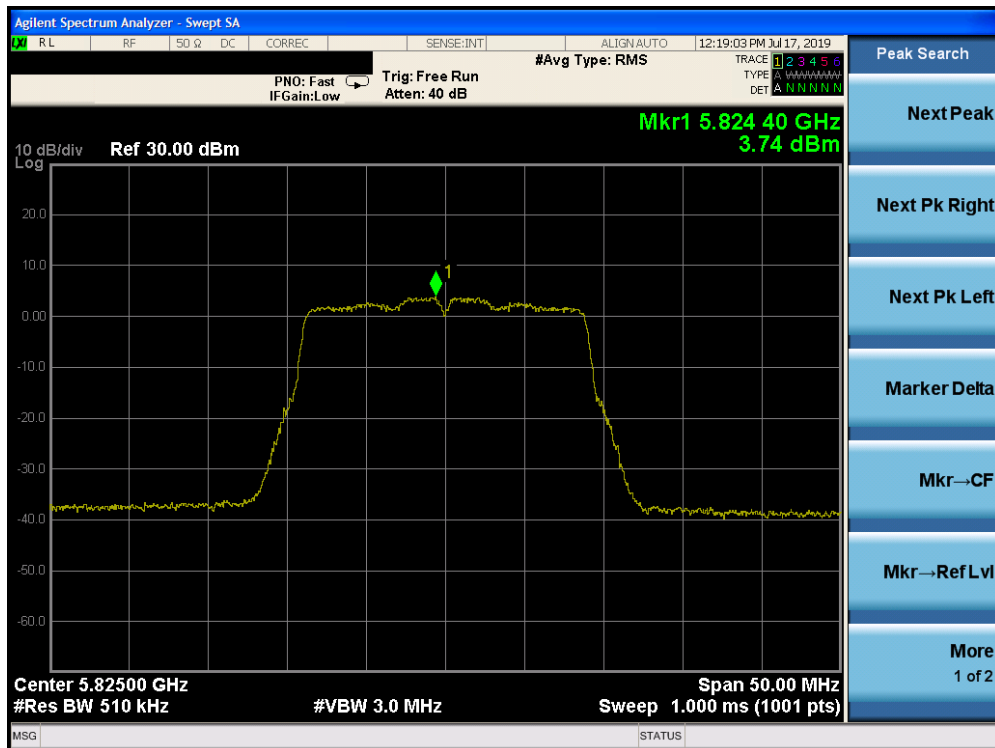


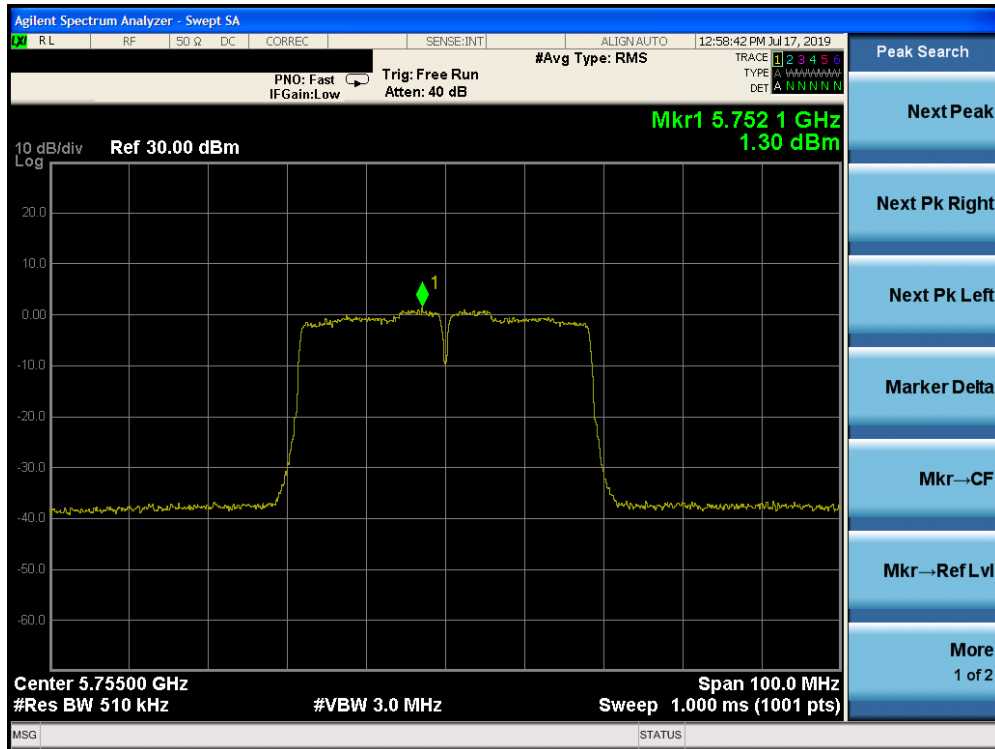


Plot 7-106. Power Spectral Density Plot SISO CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

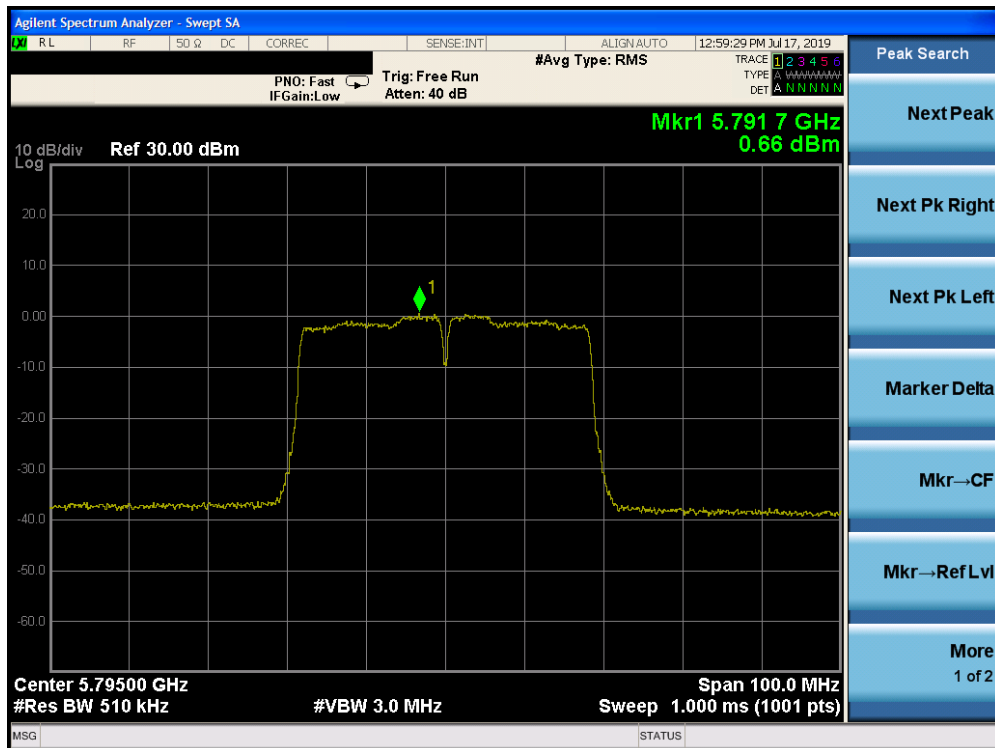


Plot 7-107. Power Spectral Density Plot SISO CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 88 of 208

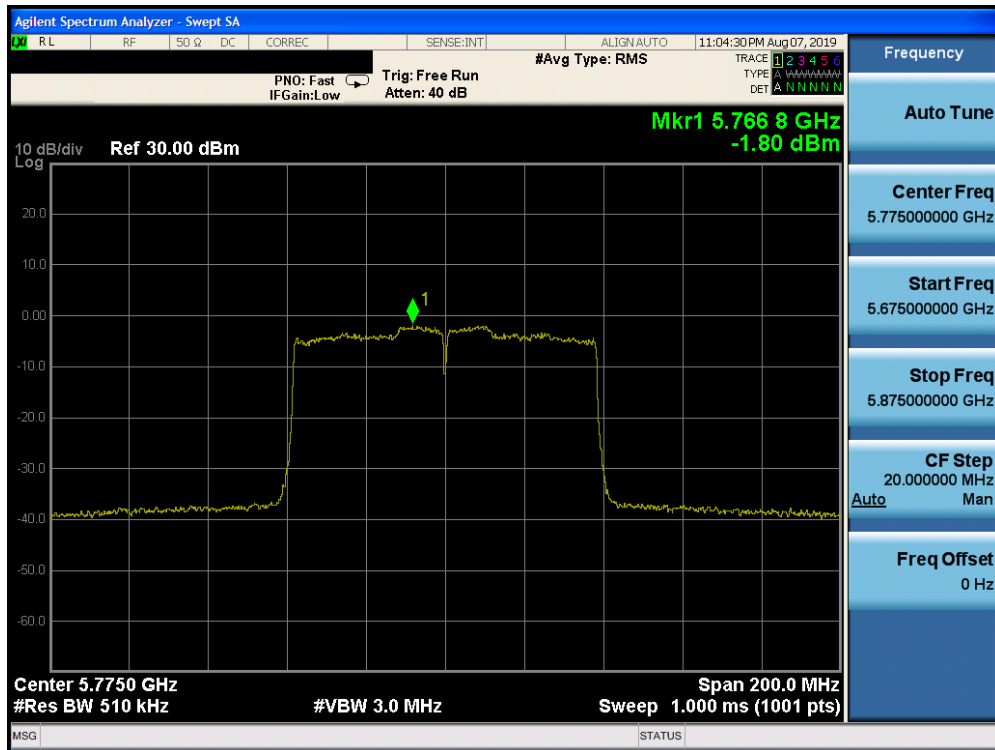


Plot 7-108. Power Spectral Density Plot SISO CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



Plot 7-109. Power Spectral Density Plot SISO CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 89 of 208



Plot 7-110. Power Spectral Density Plot SISO CORE 1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 90 of 208

Summed CDD/SDM Power Spectral Density Measurements

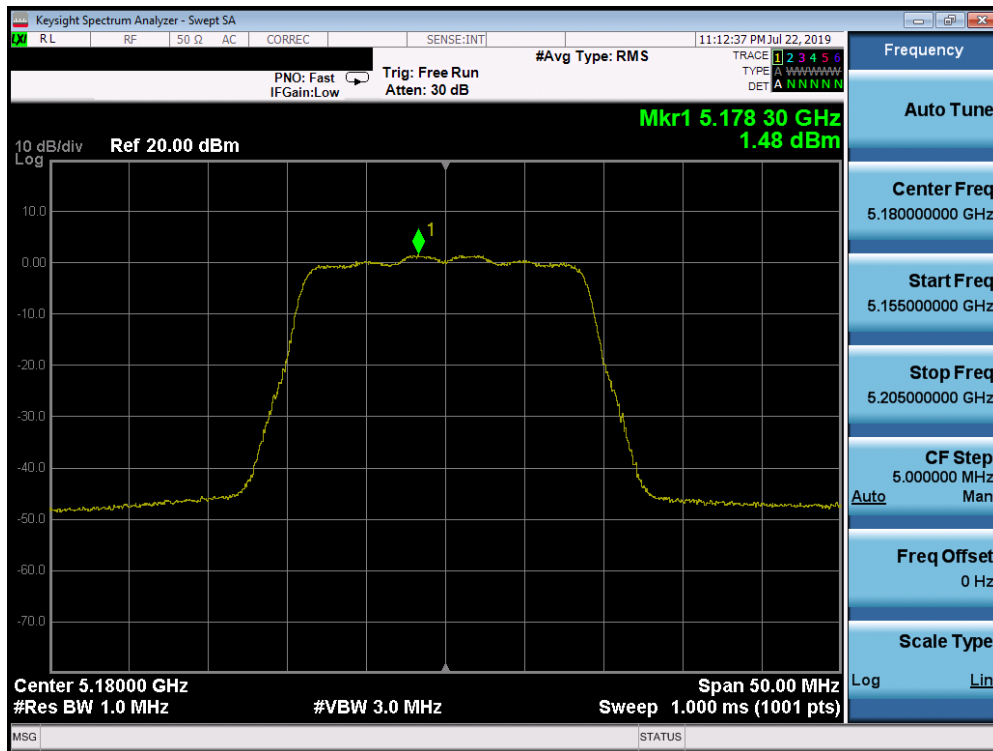
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna Gain (dBi)	Core 0 Power Density [dBm/MHz]	Core 1 Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	4.99	5.22	5.84	8.55	11.00	-2.45
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	4.99	7.01	7.02	10.03	11.00	-0.97
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	4.99	6.80	6.78	9.80	11.00	-1.20
	5190	38	n (40MHz)	13.5/15 (MCS0)	4.99	-1.51	-1.71	1.40	11.00	-9.60
	5230	46	n (40MHz)	13.5/15 (MCS0)	4.99	2.59	3.78	6.24	11.00	-4.76
Band 2A	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	4.99	-4.04	-3.70	-0.86	11.00	-11.86
	5260	52	n (20MHz)	78/86.7 (MCS8)	2.51	6.82	6.86	9.85	11.00	-1.15
	5280	56	n (20MHz)	78/86.7 (MCS8)	2.51	6.91	6.85	9.89	11.00	-1.11
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.52	4.02	4.42	7.23	11.00	-3.77
	5270	54	n (40MHz)	13.5/15 (MCS0)	5.52	4.17	4.53	7.36	11.00	-3.64
	5310	62	n (40MHz)	13.5/15 (MCS0)	5.52	-0.24	0.09	2.94	11.00	-8.06
Band 2C	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	5.52	-3.99	-3.66	-0.81	11.00	-11.81
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.29	4.73	4.57	7.66	10.71	-3.05
	5580	116	n (20MHz)	78/86.7 (MCS8)	3.28	5.97	5.82	8.91	11.00	-2.09
	5720	144	n (20MHz)	78/86.7 (MCS8)	3.28	6.43	6.33	9.39	11.00	-1.61
	5510	102	n (40MHz)	13.5/15 (MCS0)	6.29	-0.06	0.09	3.03	10.71	-7.68
	5550	110	n (40MHz)	13.5/15 (MCS0)	6.29	4.09	3.90	7.01	10.71	-3.70
	5710	142	n (40MHz)	13.5/15 (MCS0)	6.29	5.02	4.86	7.95	10.71	-2.76
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	6.29	-2.97	-2.65	0.20	10.71	-10.51
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	6.29	1.01	0.93	3.98	10.71	-6.73

Table 7-32. Bands 1, 2A, 2C CDD/SDM Conducted Power Spectral Density Measurements

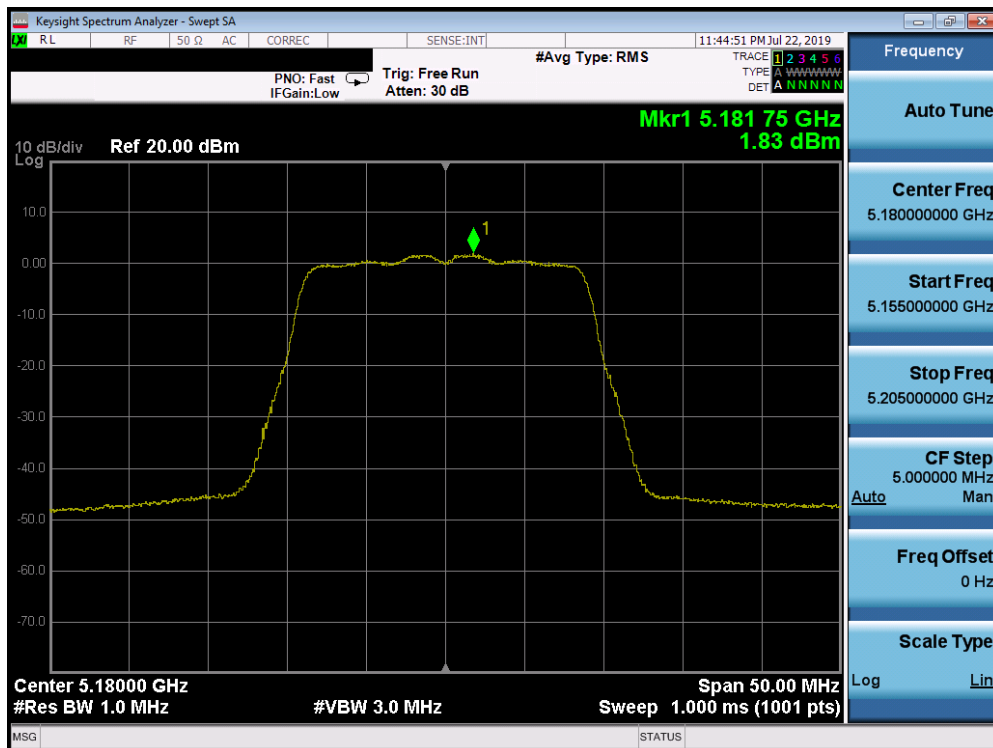
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Core 0 Power Density [dBm/MHz]	Core 1 Power Density [dBm/MHz]	Summed Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	1.48	1.83	4.67	4.99	9.66	10.0	-0.34
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	1.17	1.69	4.45	4.99	9.44	10.0	-0.56
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	1.18	1.03	4.12	4.99	9.11	10.0	-0.89
	5190	38	n (40MHz)	13.5/15 (MCS0)	-1.51	-1.71	1.40	4.99	6.39	10.0	-3.61
	5230	46	n (40MHz)	13.5/15 (MCS0)	1.32	1.22	4.28	4.99	9.27	10.0	-0.73
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.04	-3.70	-0.86	4.99	4.14	10.0	-5.86

Table 7-33. Band 1 CDD e.i.r.p. Conducted Power Spectral Density Measurements (ISED)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 91 of 208

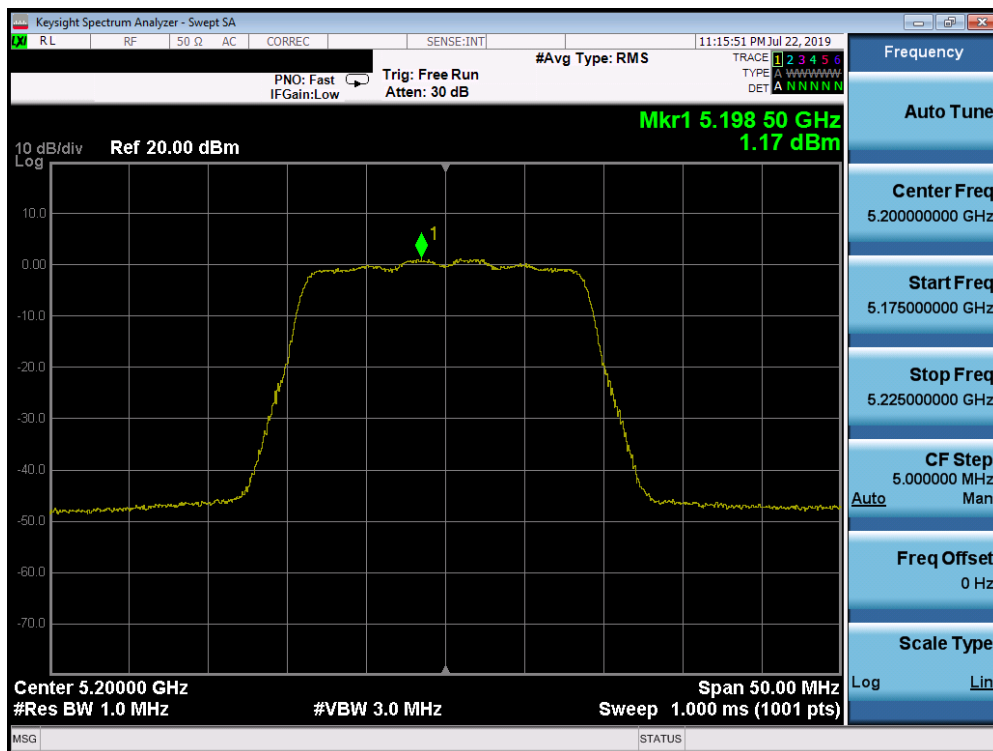


Plot 7-111. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 36) - ISED

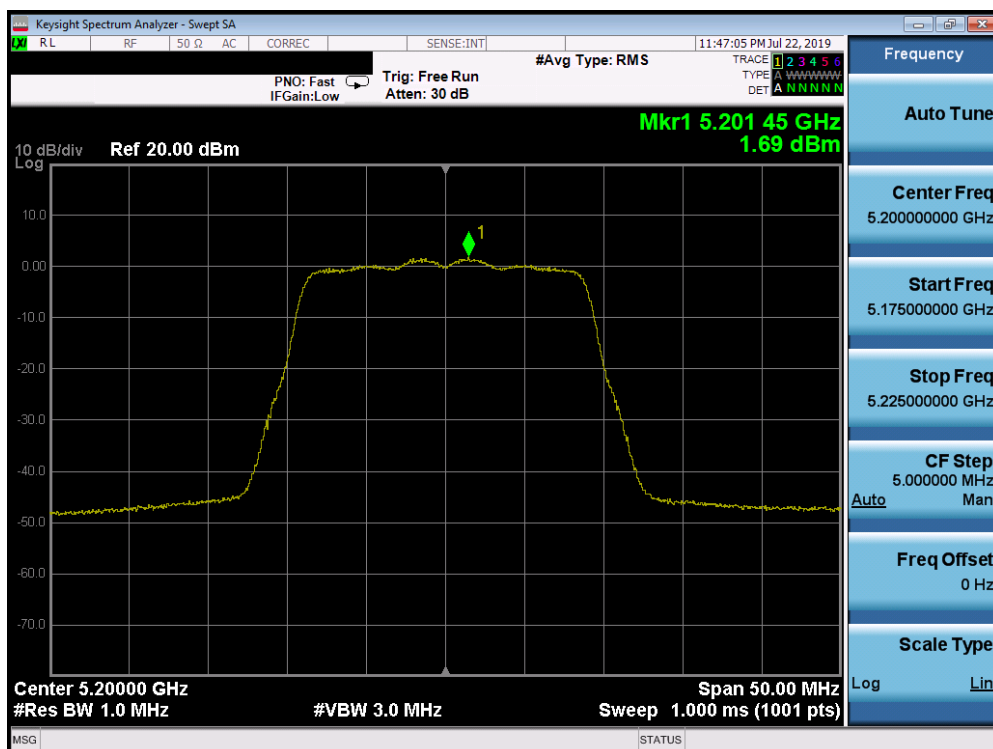


Plot 7-112. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 36) - ISED

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 92 of 208

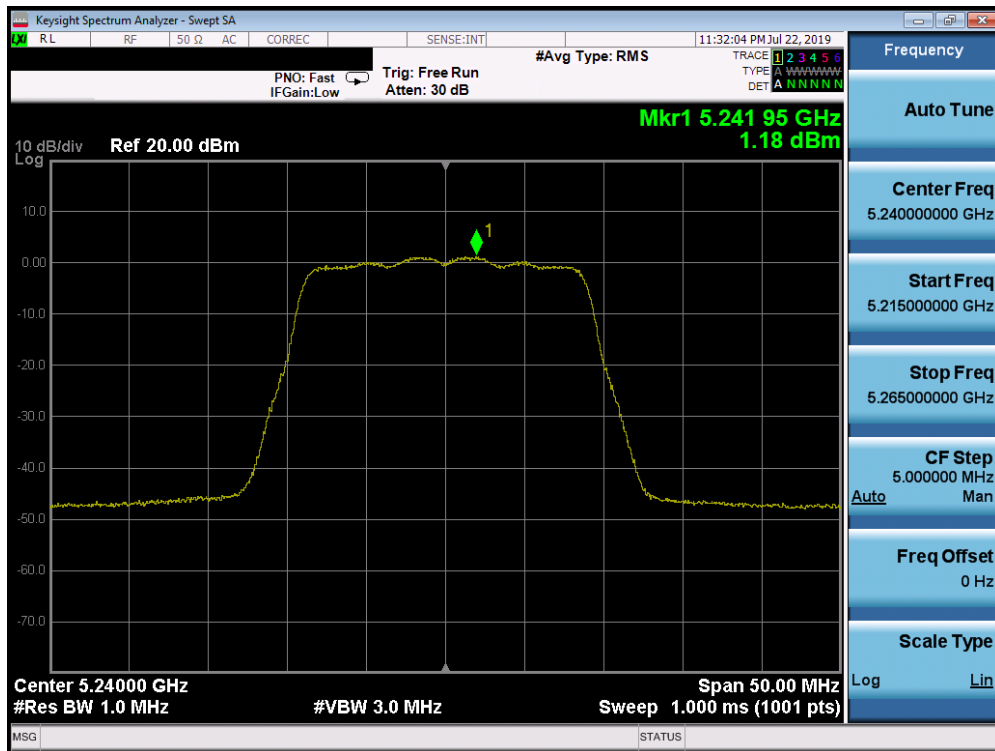


Plot 7-113. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 40) - ISED

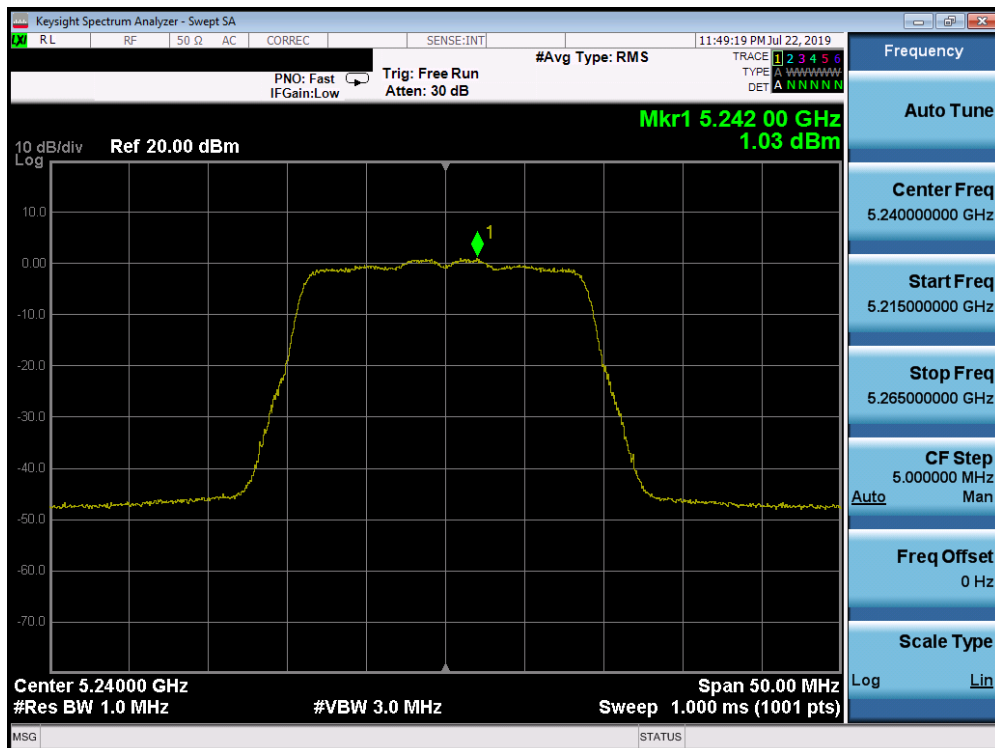


Plot 7-114. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40) - ISED

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 93 of 208

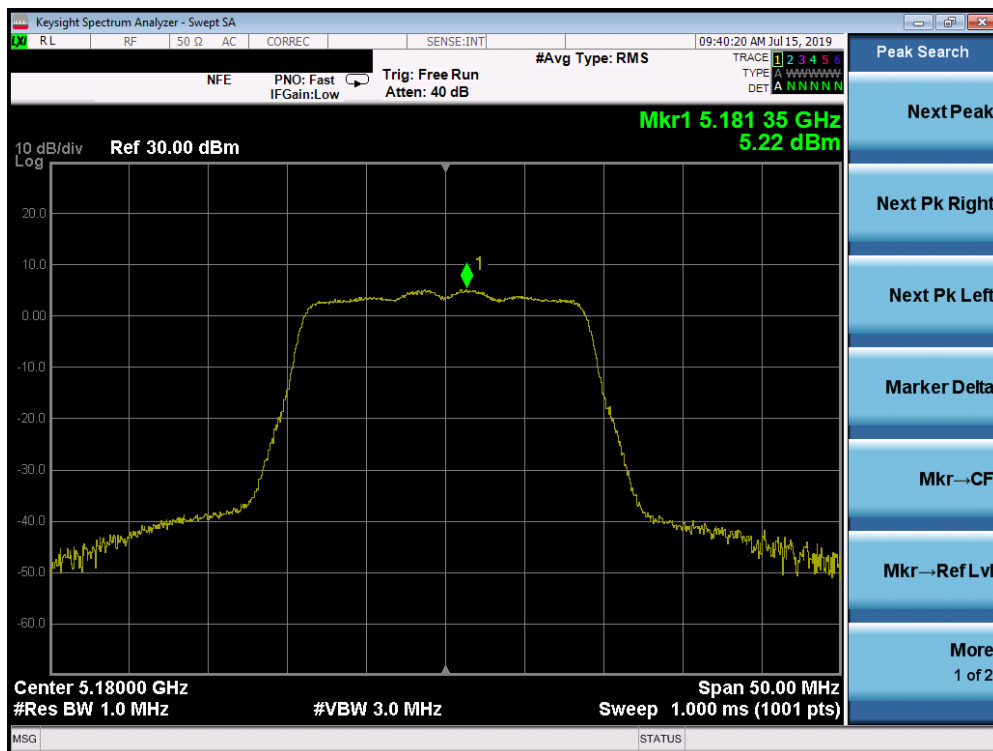


Plot 7-115. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 48) - ISED

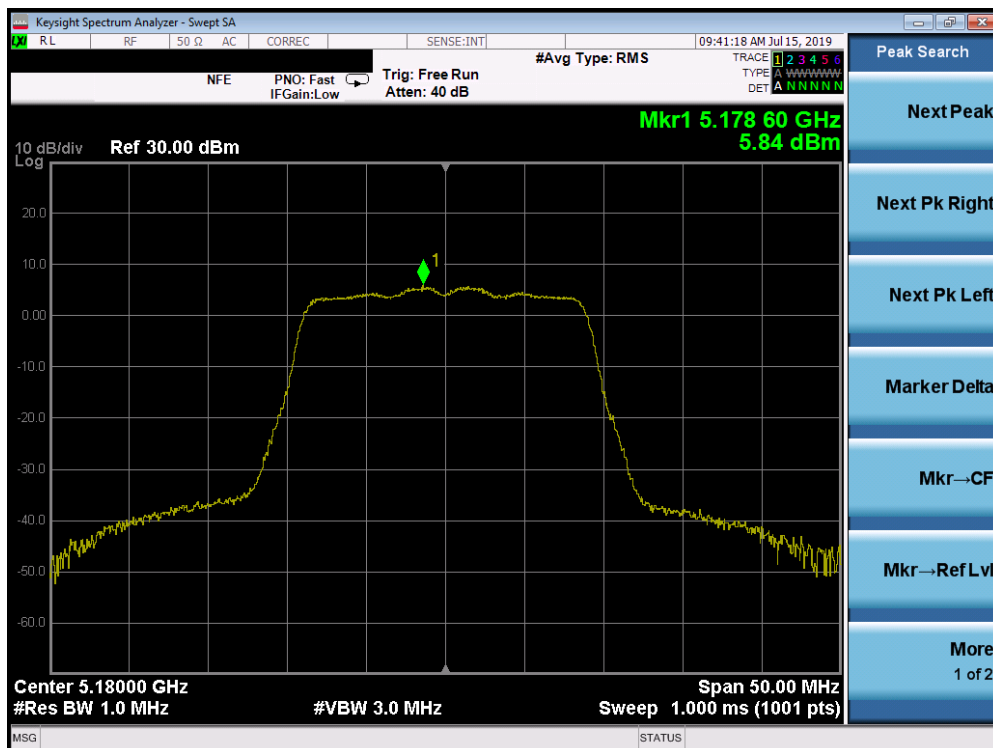


Plot 7-116. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 48) - ISED

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 94 of 208

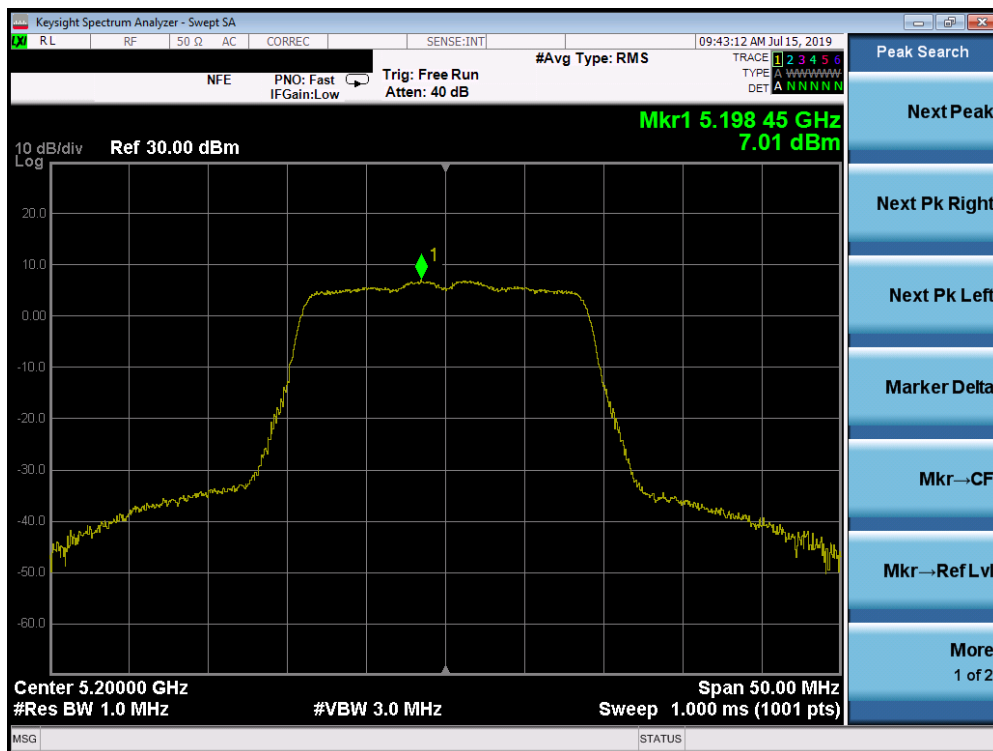


Plot 7-117. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

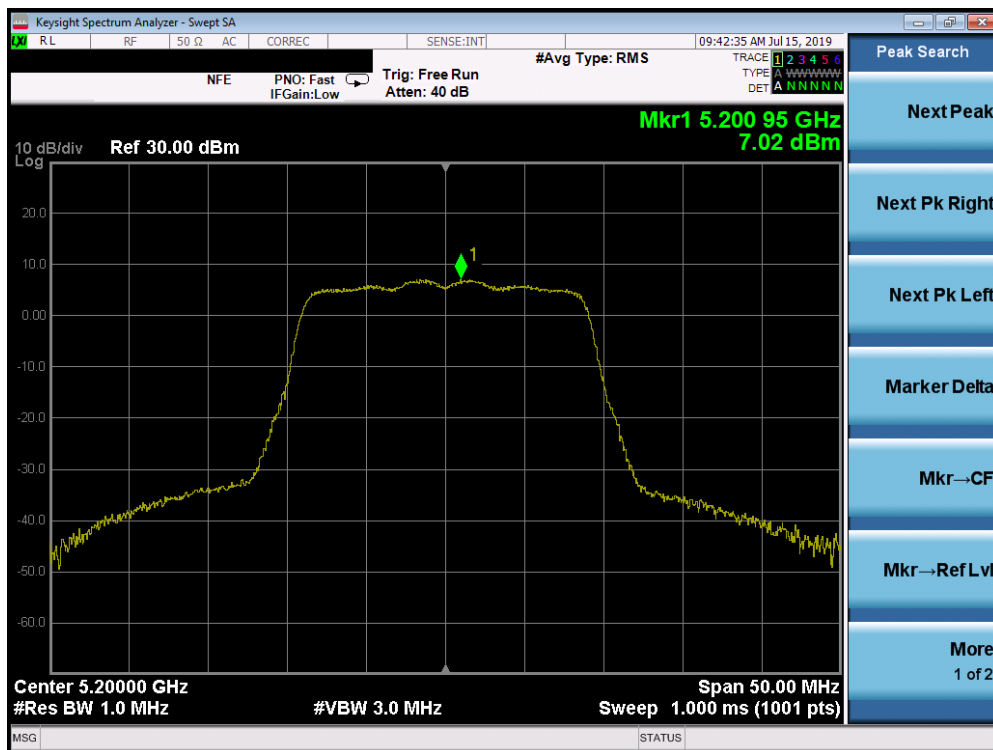


Plot 7-118. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 95 of 208

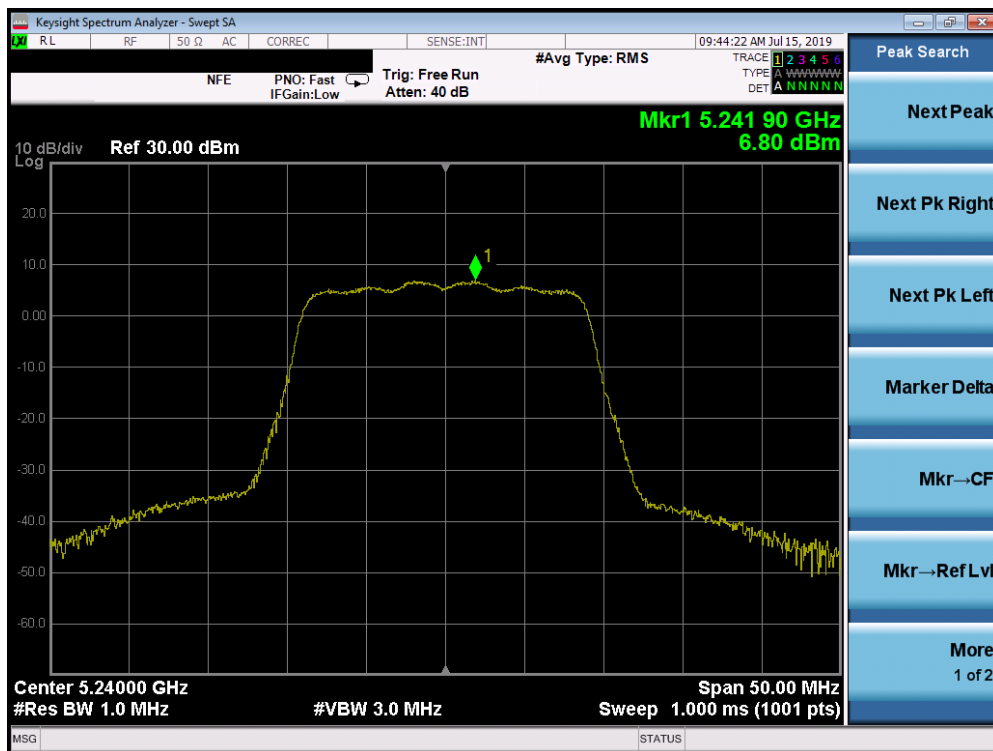


Plot 7-119. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

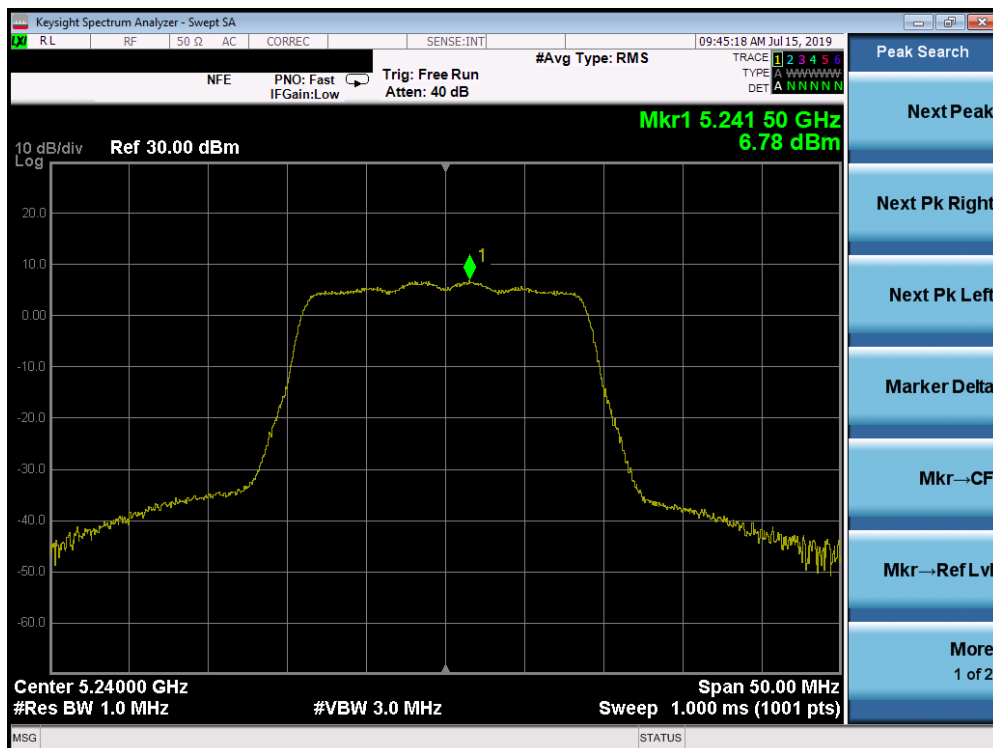


Plot 7-120. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 96 of 208

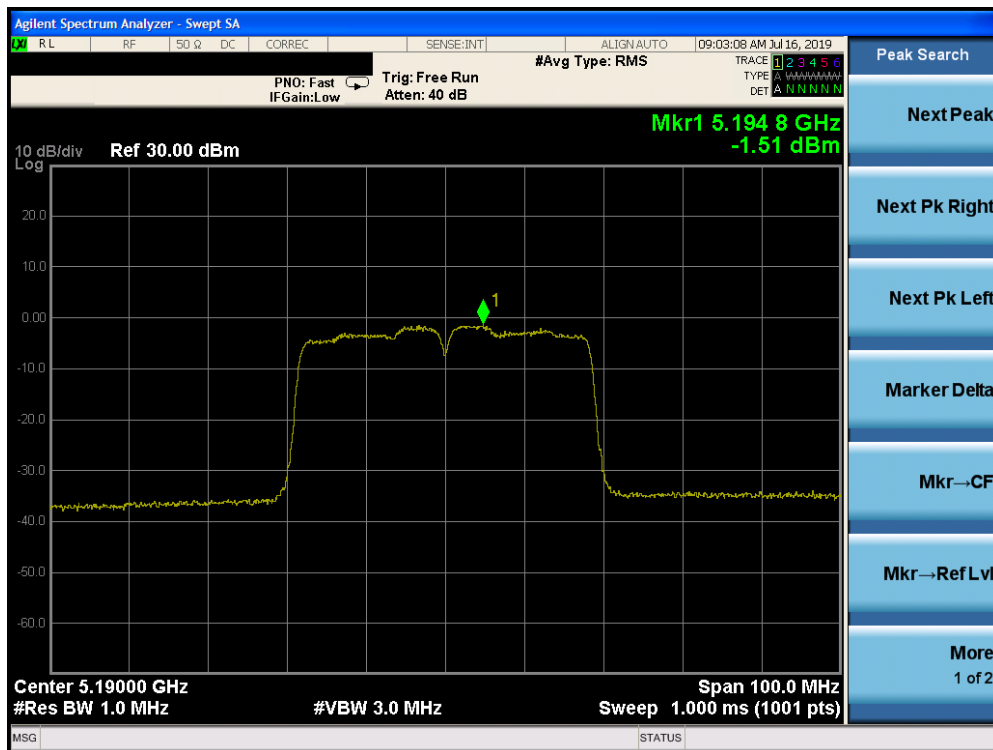


Plot 7-121. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

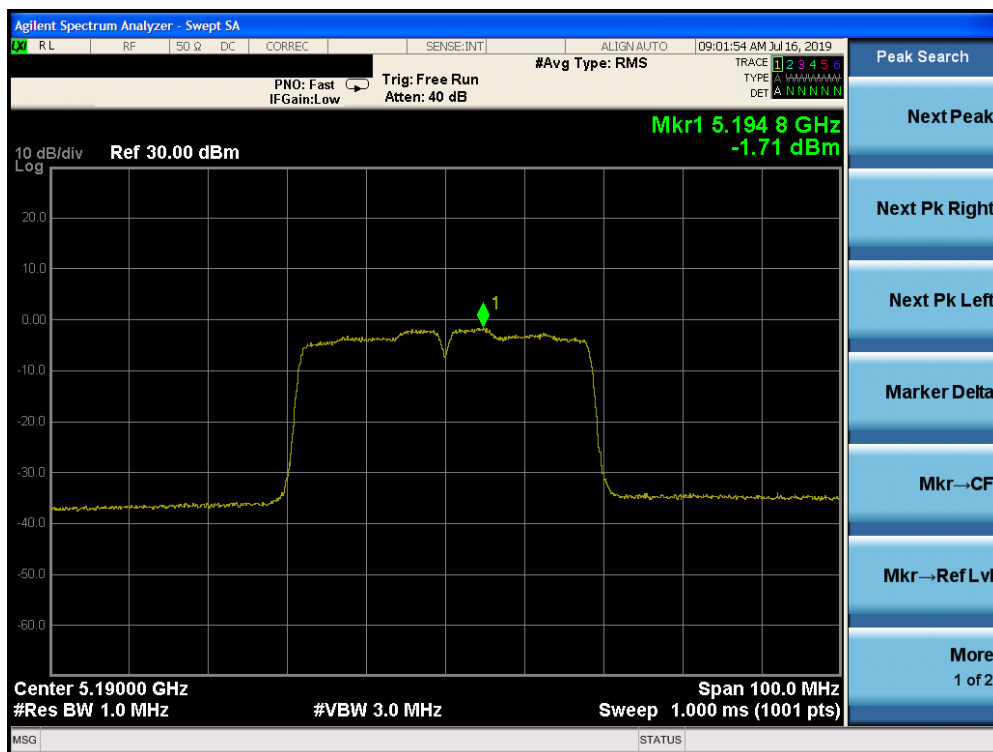


Plot 7-122. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 97 of 208

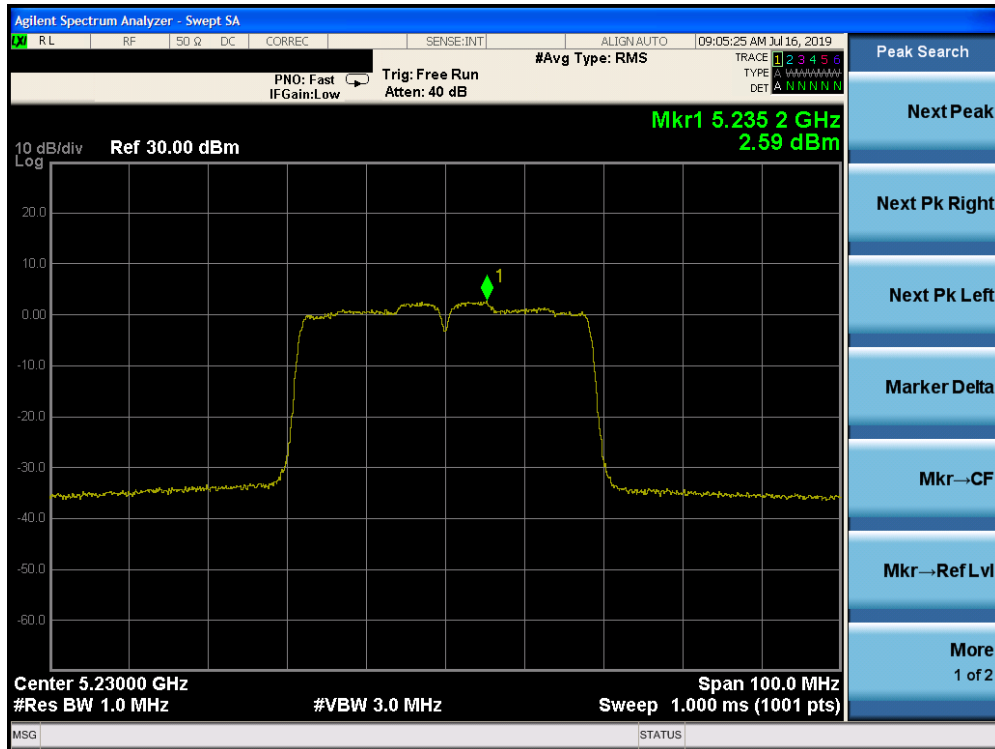


Plot 7-123. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

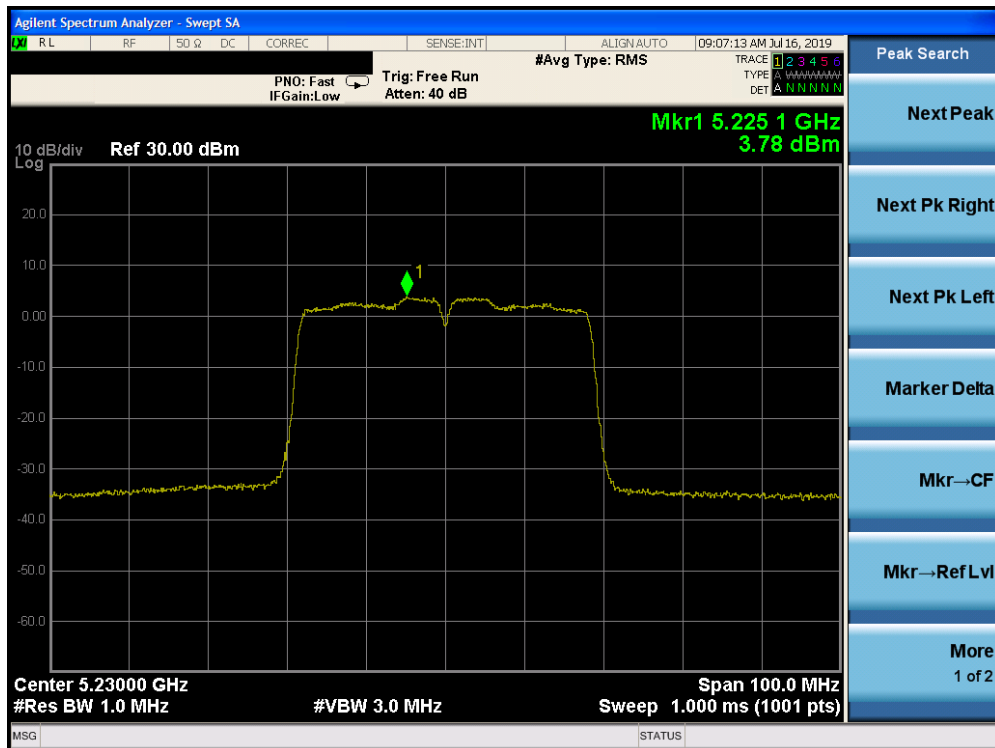


Plot 7-124. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 98 of 208

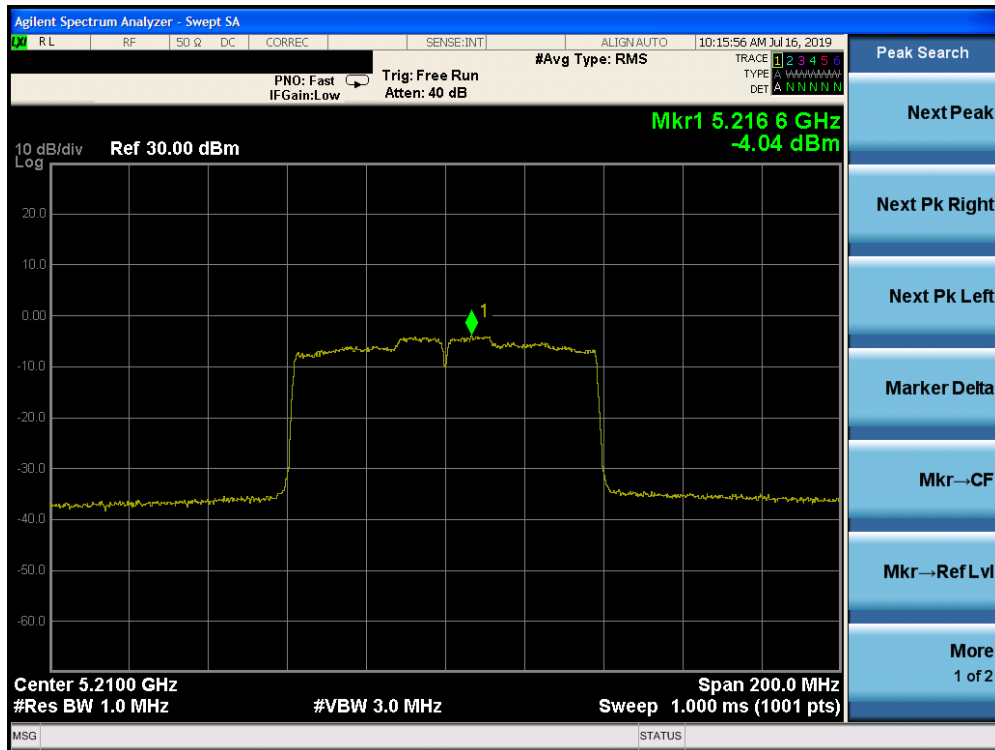


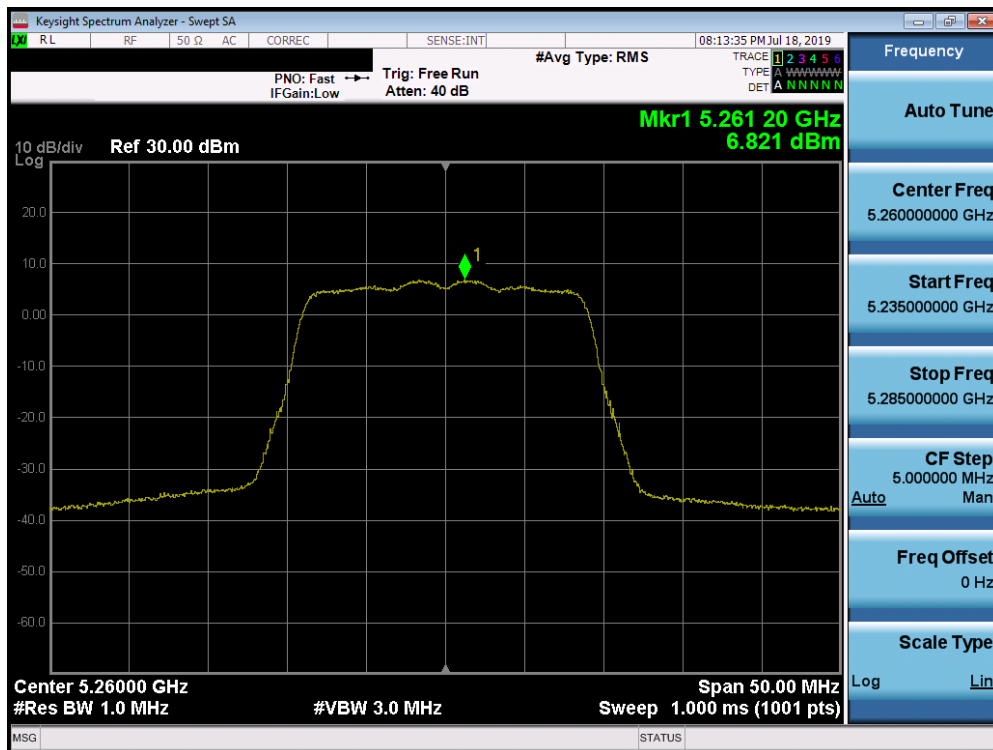
Plot 7-125. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)



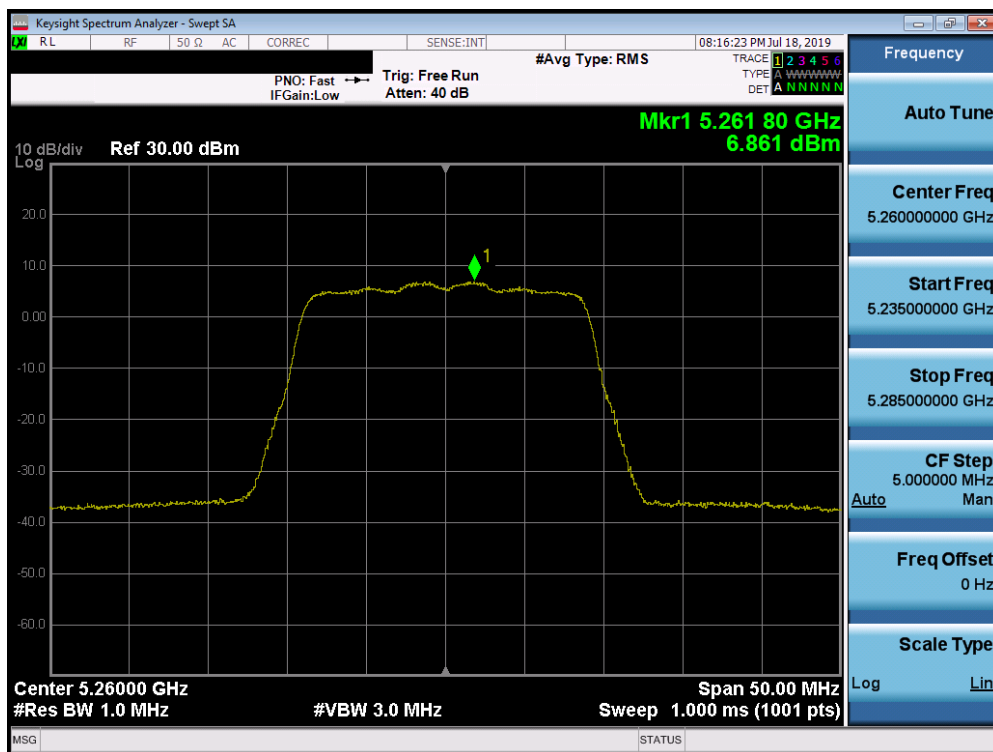
Plot 7-126. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: BCGA2198	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device		Page 99 of 208



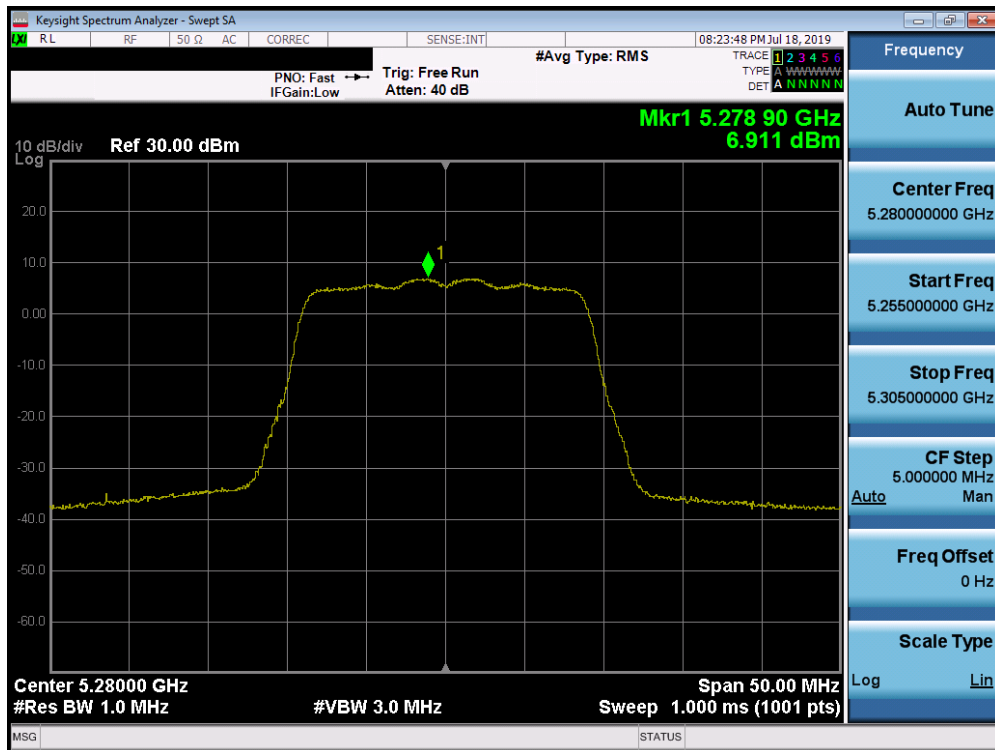


Plot 7-129. Power Spectral Density Plot SDM CORE 0 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

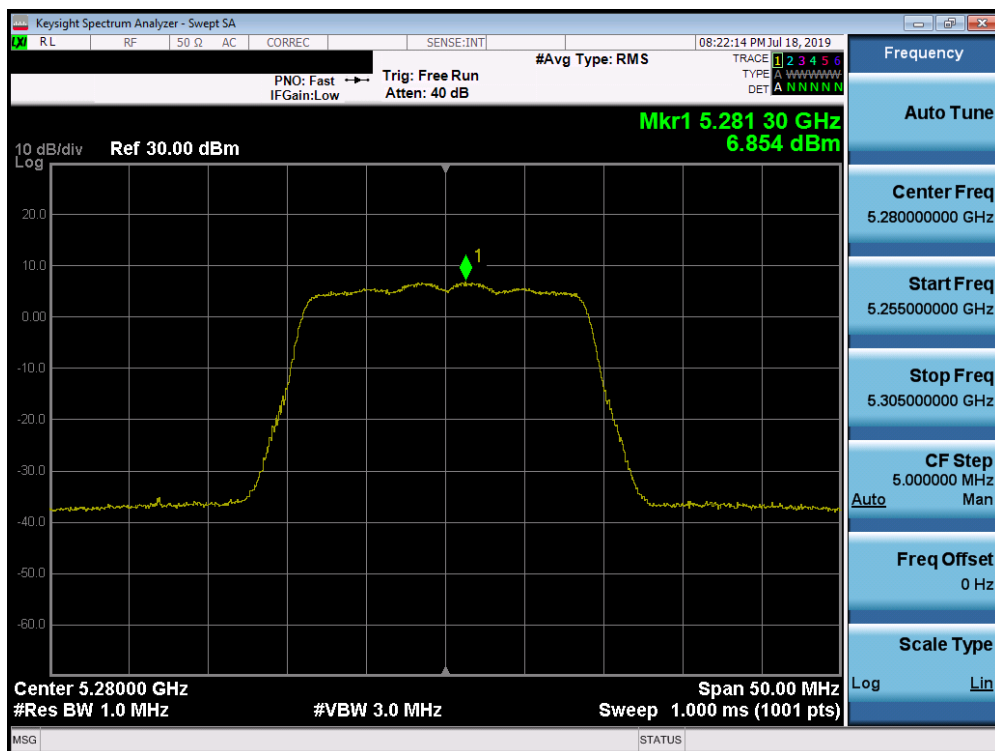


Plot 7-130. Power Spectral Density Plot SDM CORE 1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 101 of 208

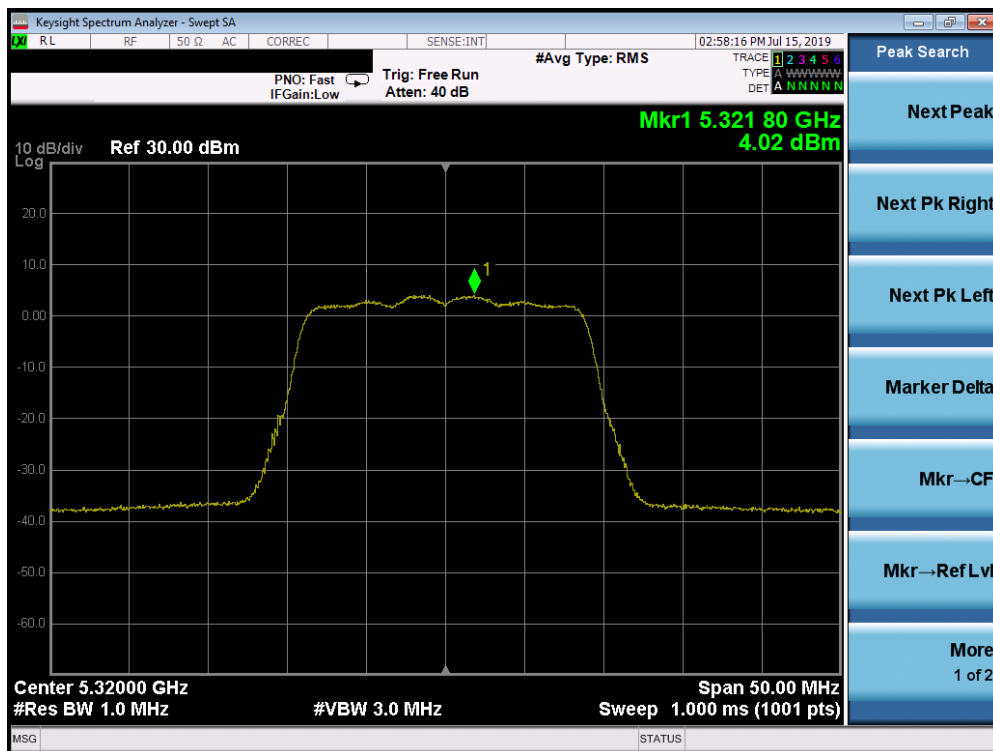


Plot 7-131. Power Spectral Density Plot SDM CORE 0 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

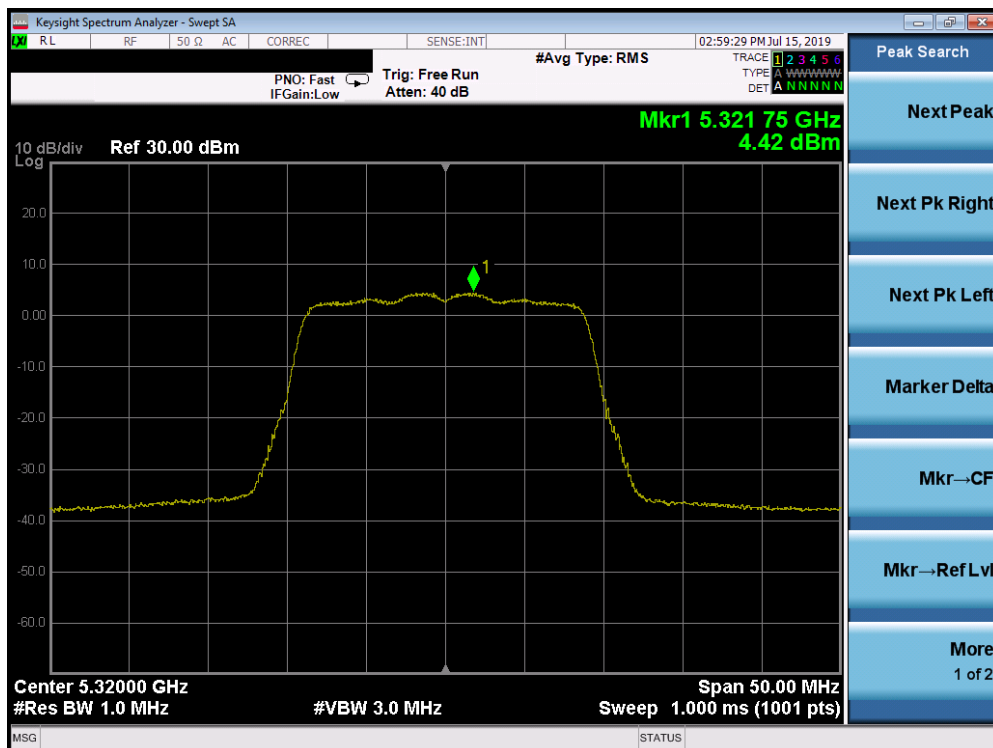


Plot 7-132. Power Spectral Density Plot SDM CORE 1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 102 of 208

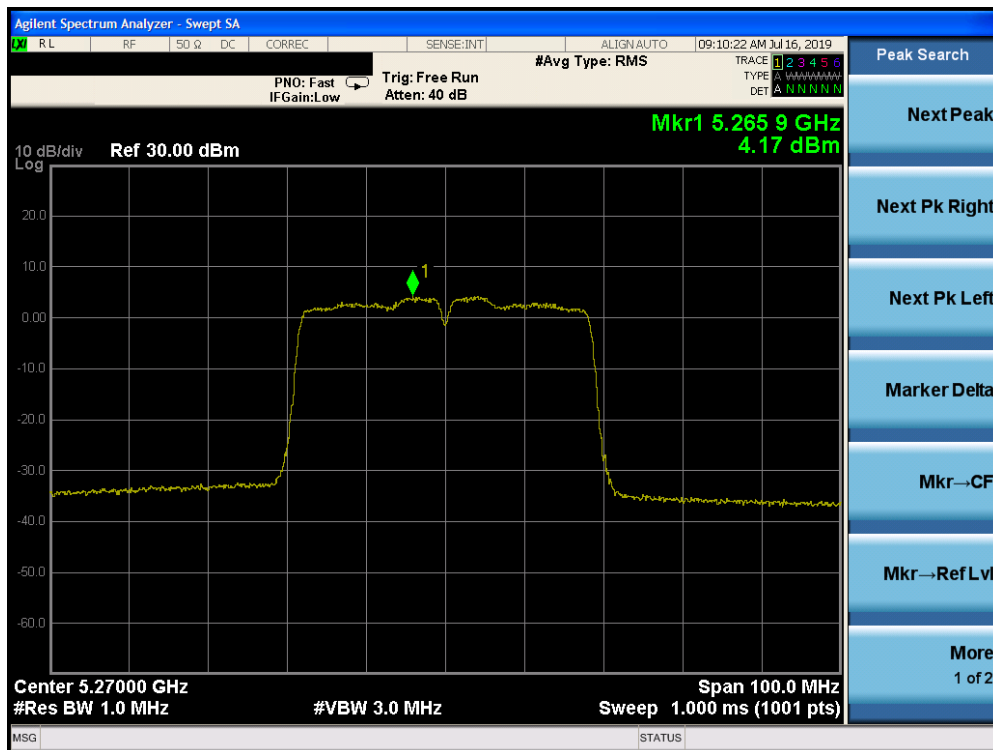


Plot 7-133. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

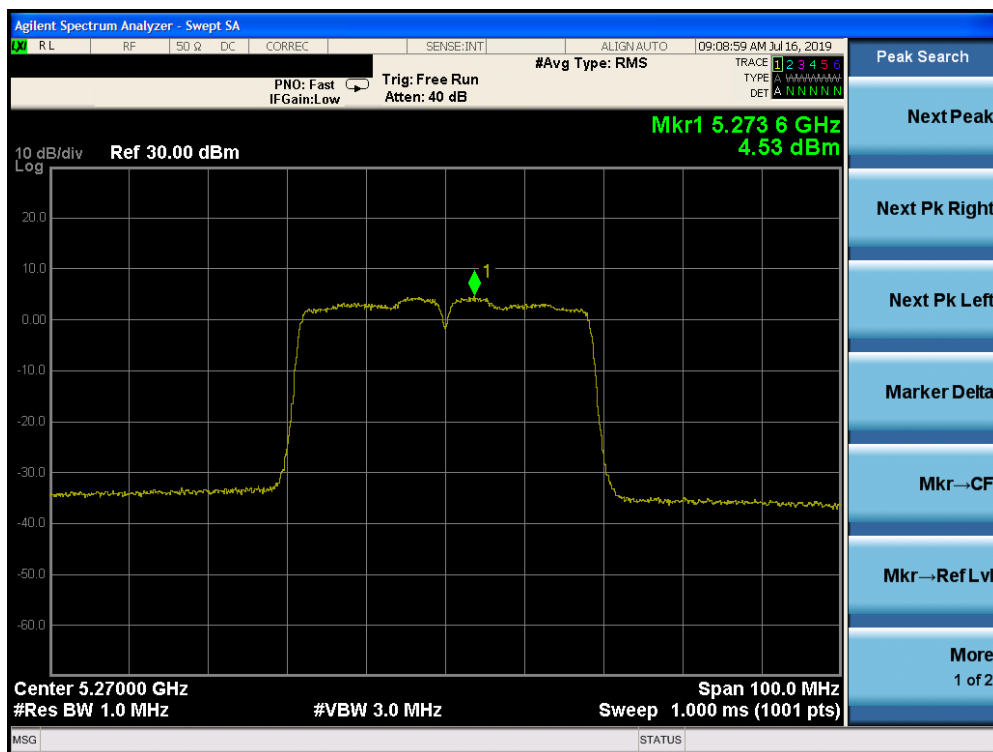


Plot 7-134. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 103 of 208

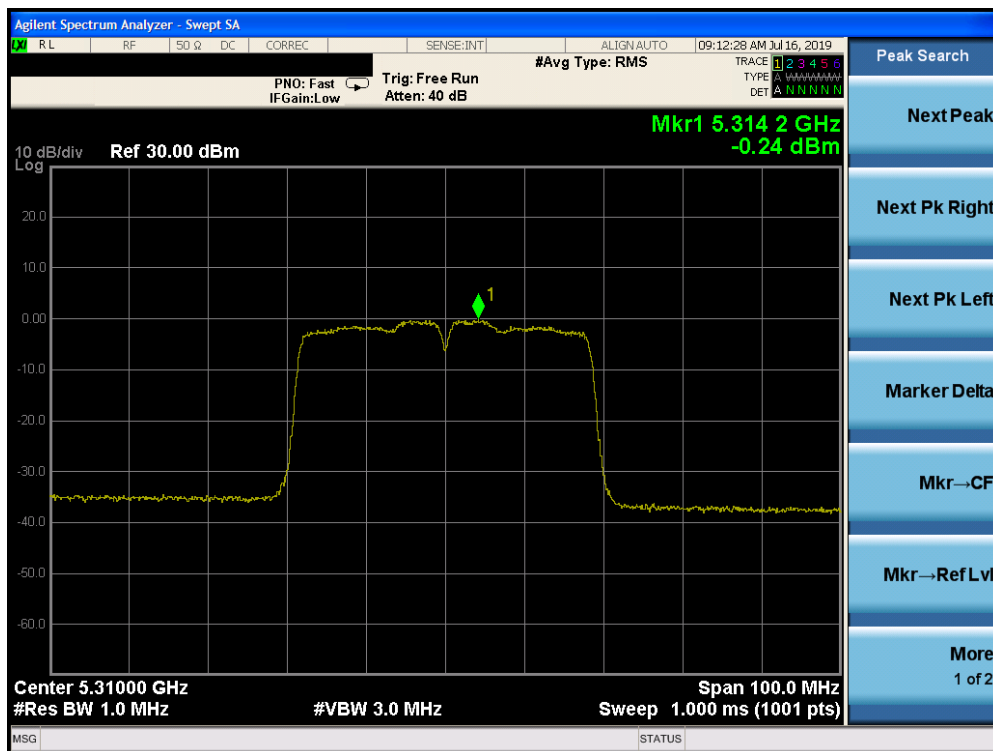


Plot 7-135. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

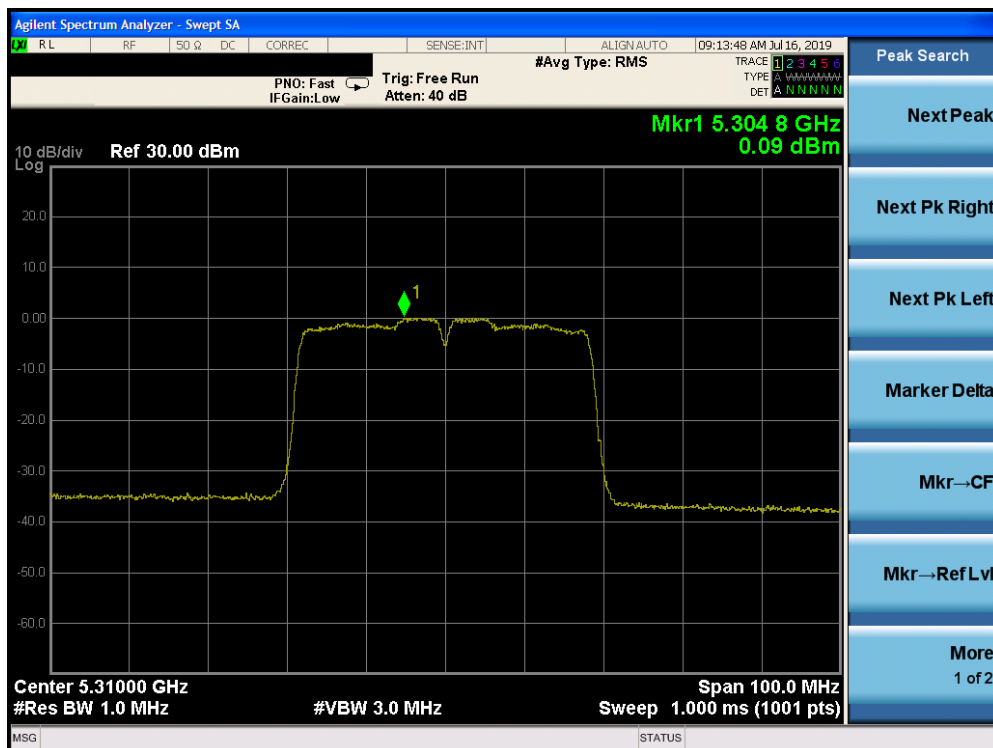


Plot 7-136. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 104 of 208

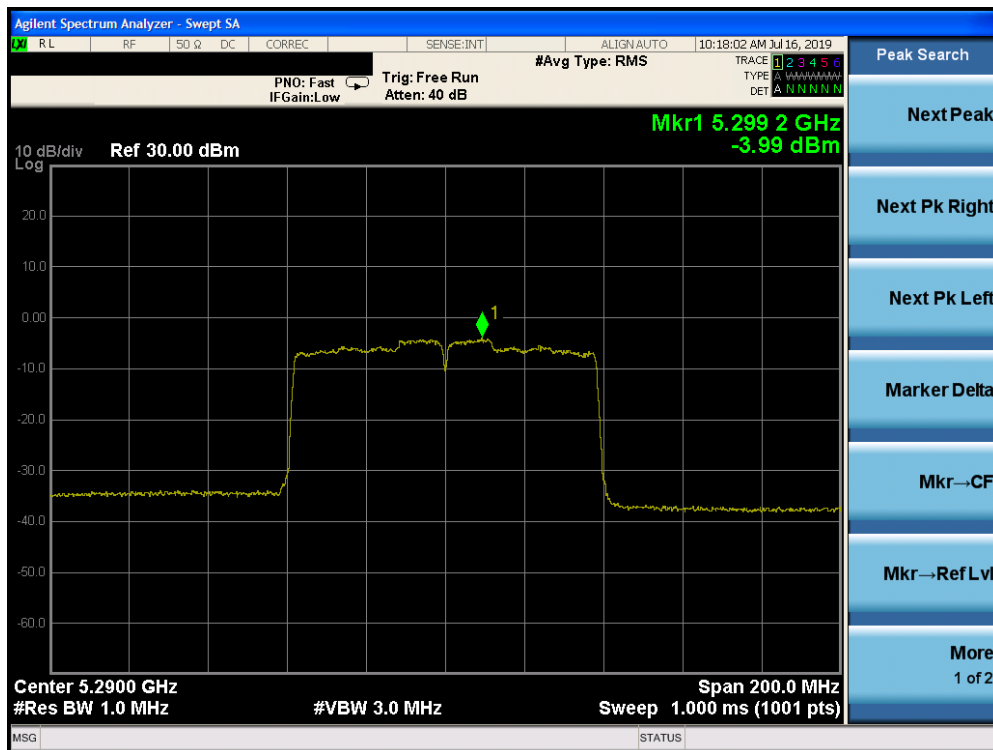


Plot 7-137. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

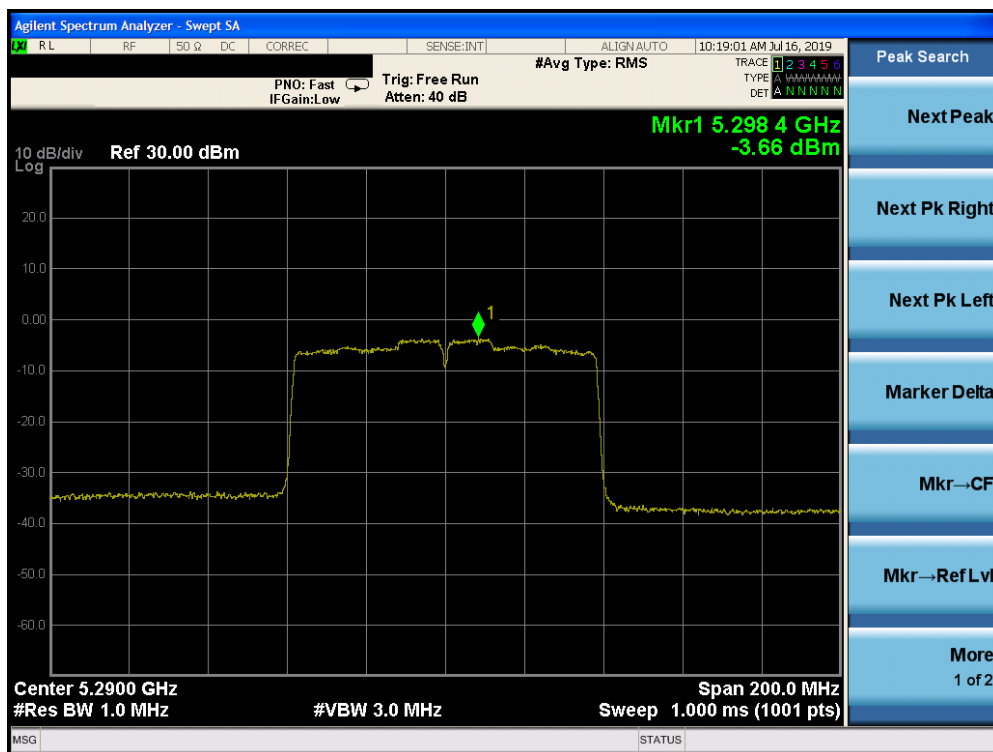


Plot 7-138. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 105 of 208

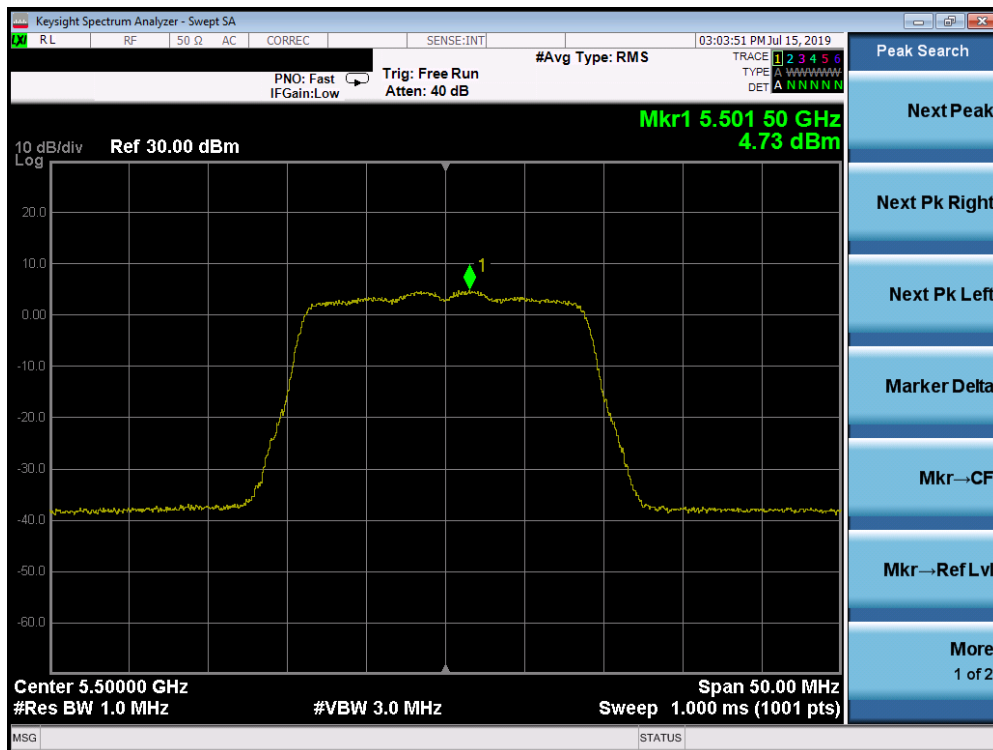


Plot 7-139. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

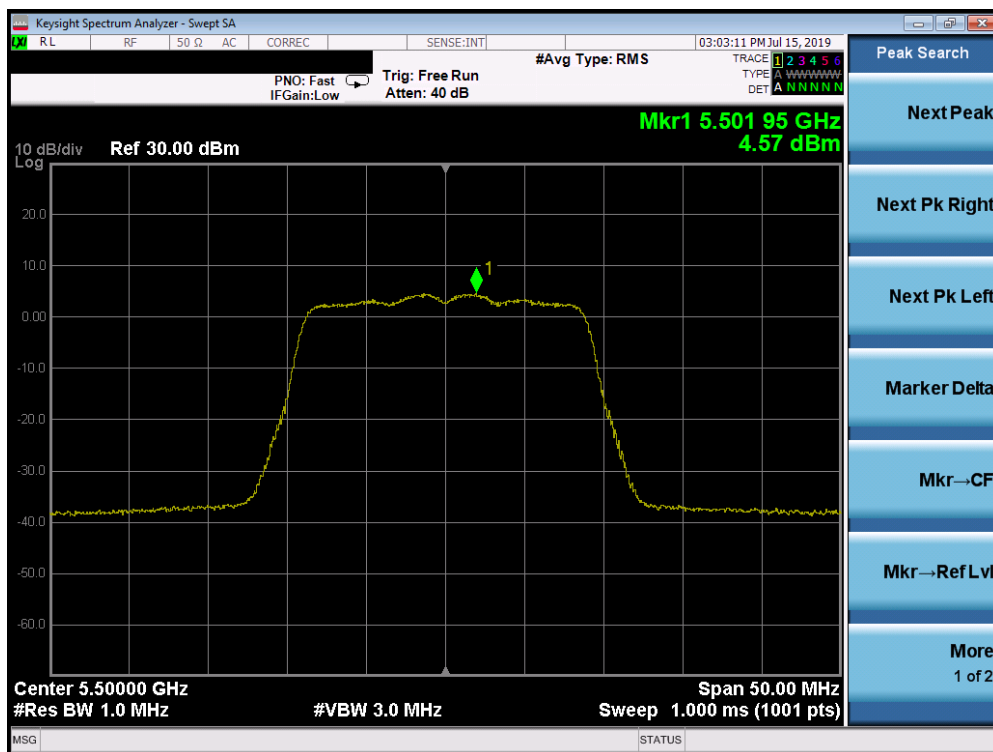


Plot 7-140. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 106 of 208

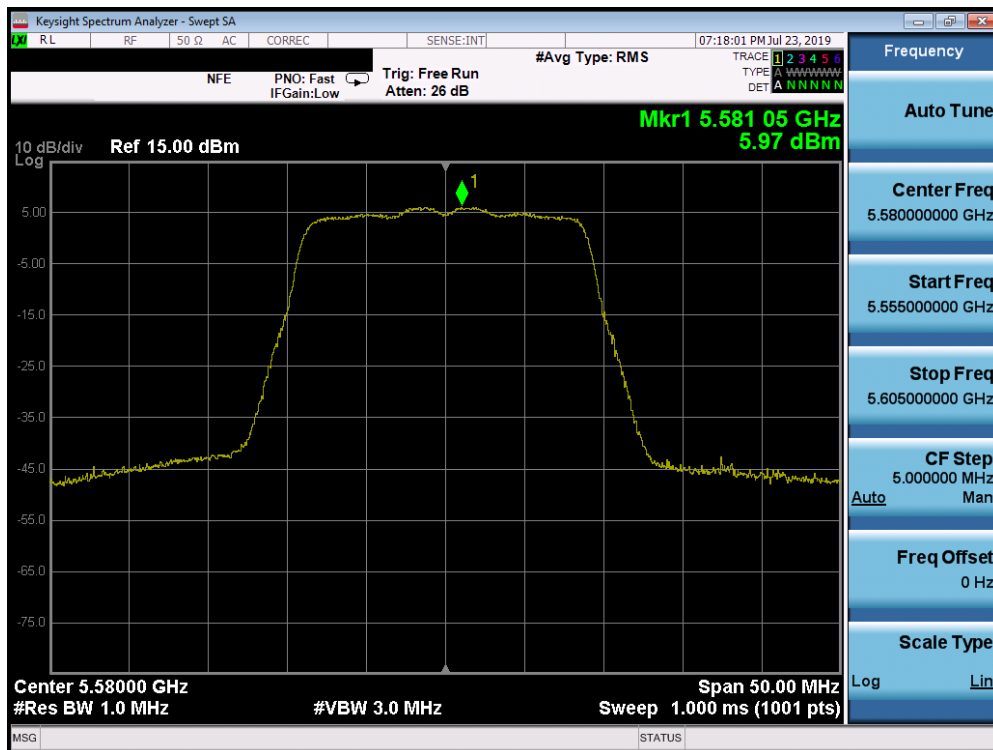


Plot 7-141. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

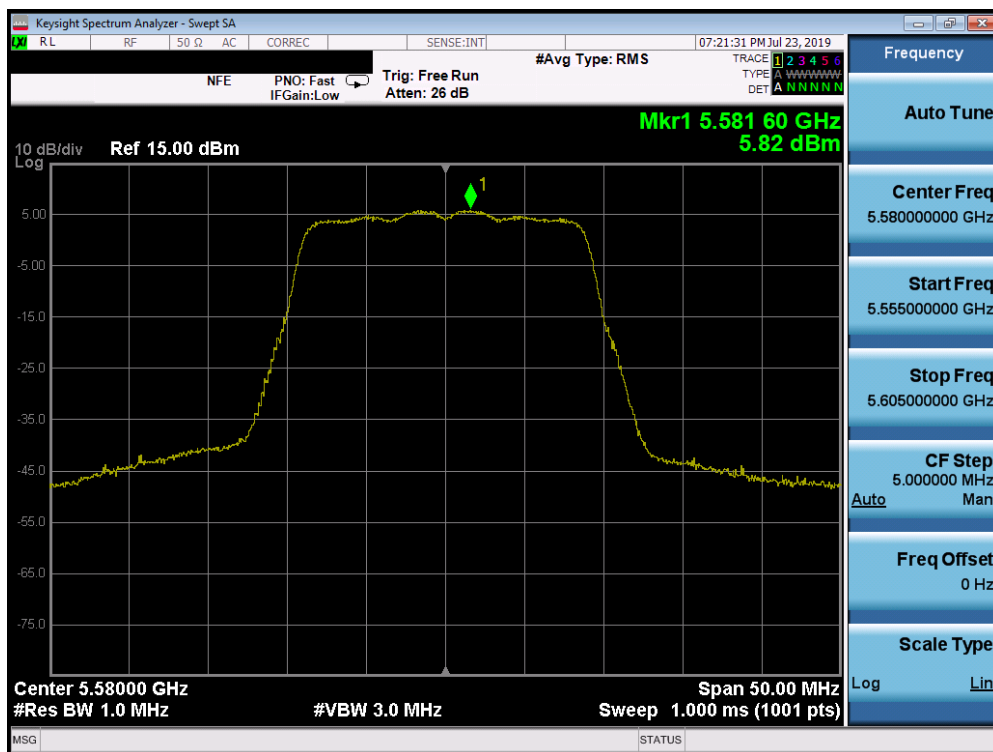


Plot 7-142. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 107 of 208

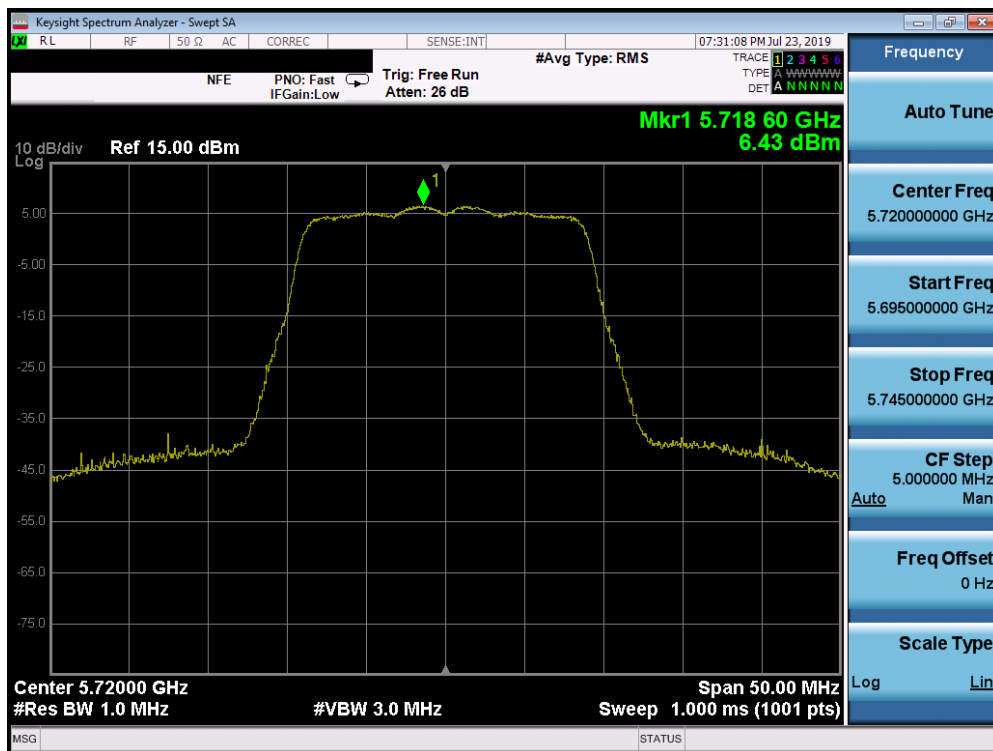


Plot 7-143. Power Spectral Density Plot SDM CORE 0 (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

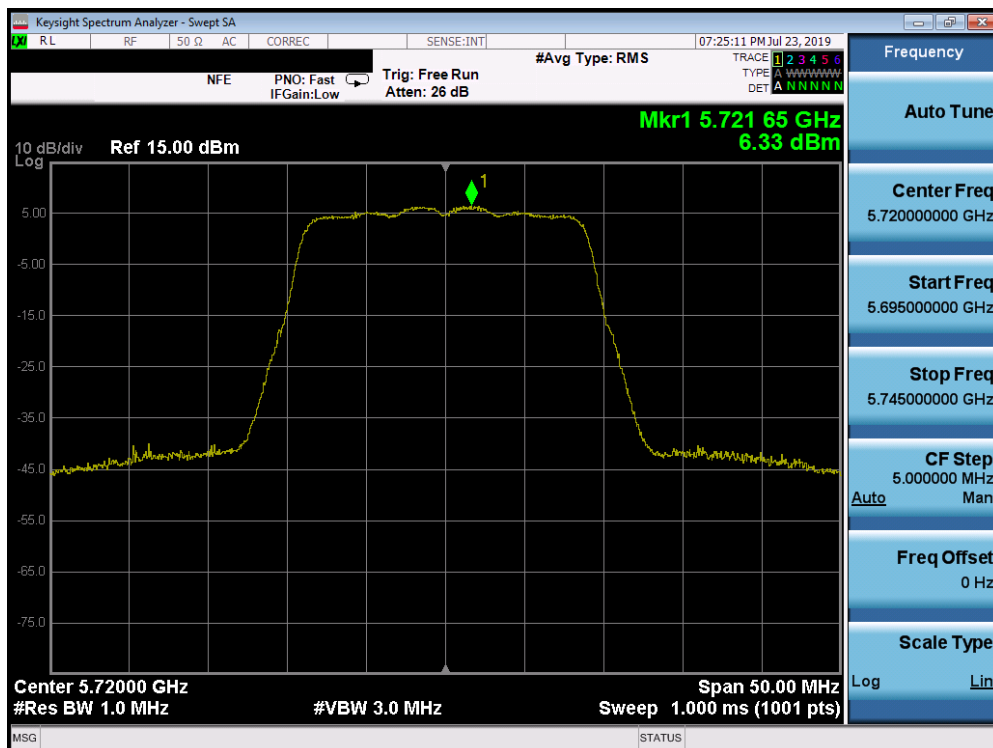


Plot 7-144. Power Spectral Density Plot SDM CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 108 of 208

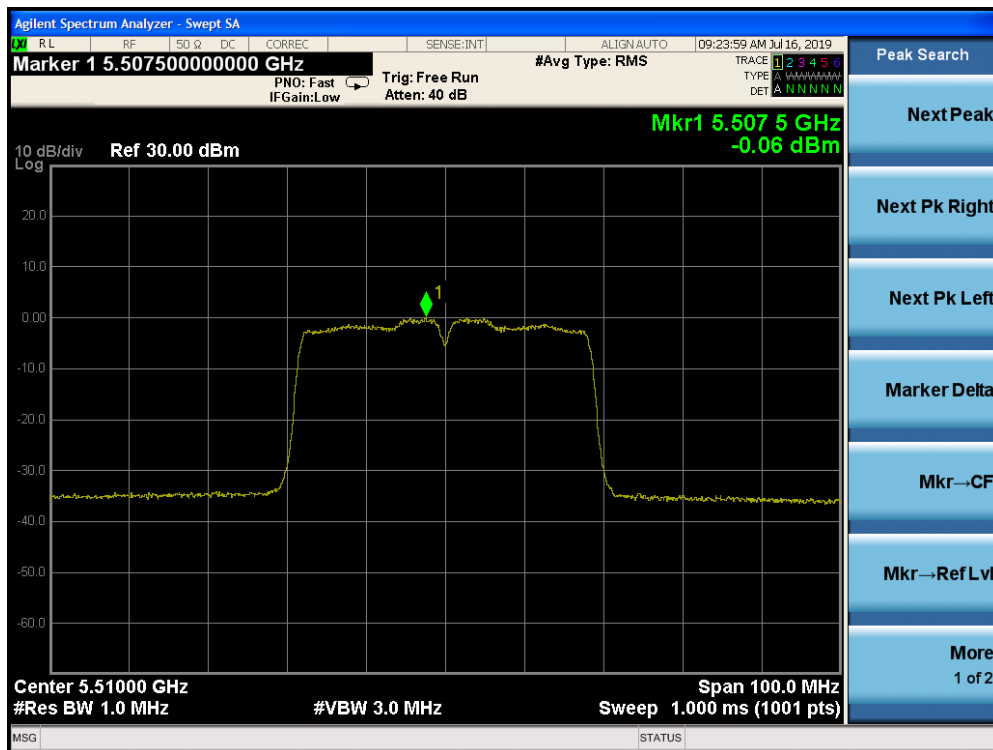


Plot 7-145. Power Spectral Density Plot SDM CORE 0 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

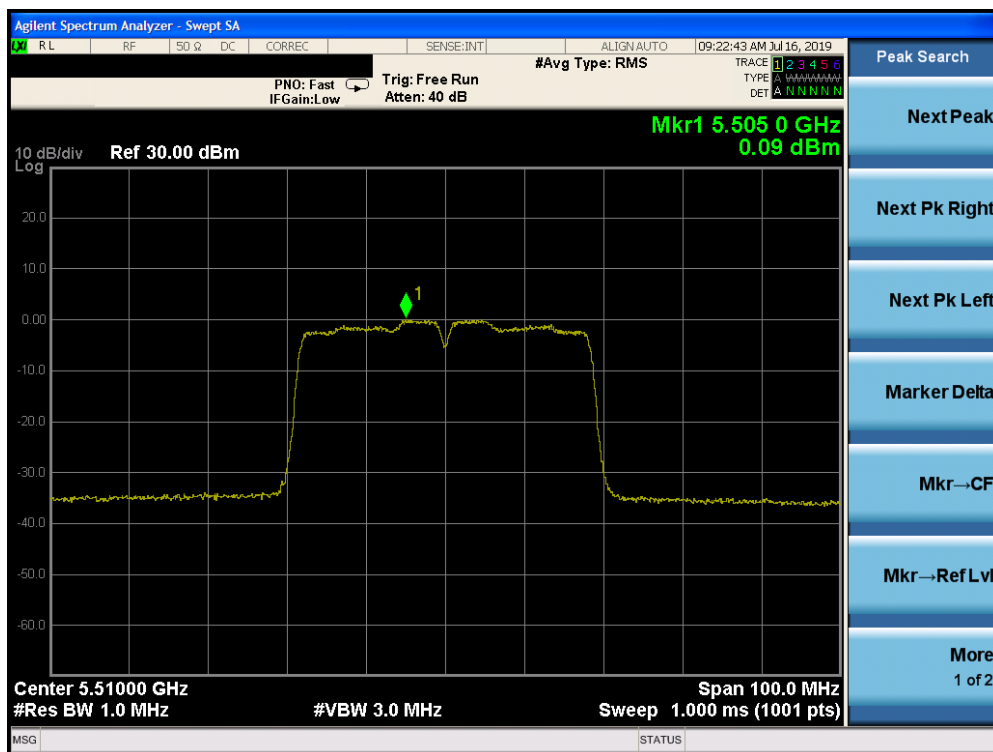


Plot 7-146. Power Spectral Density Plot SDM CORE 1 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 109 of 208

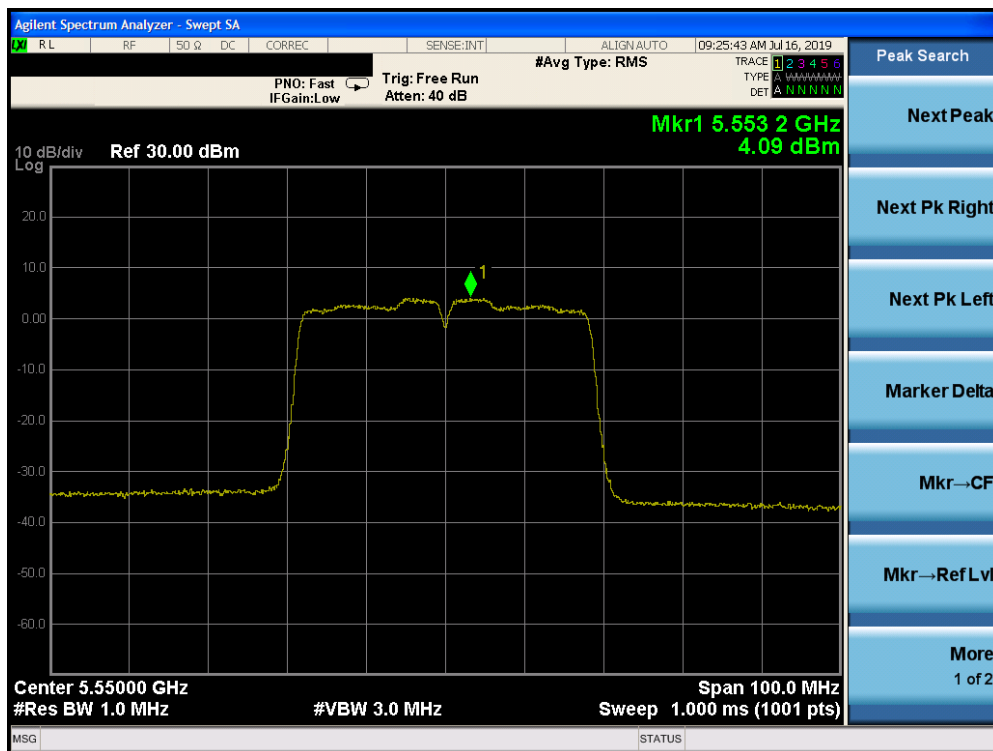


Plot 7-147. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

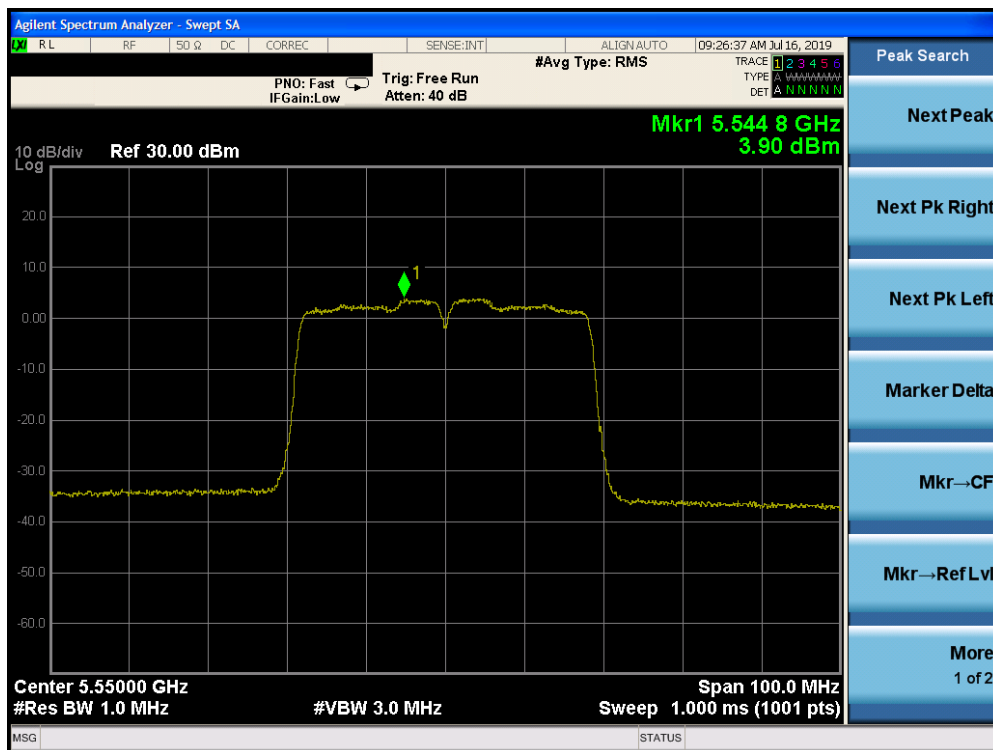


Plot 7-148. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 110 of 208

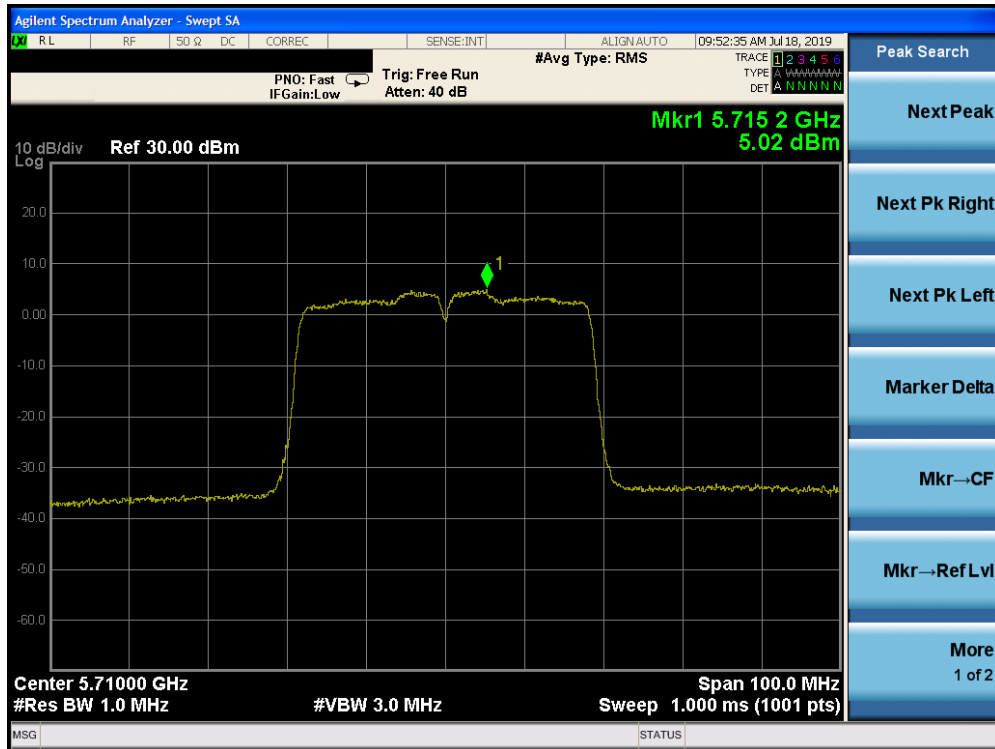


Plot 7-149. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

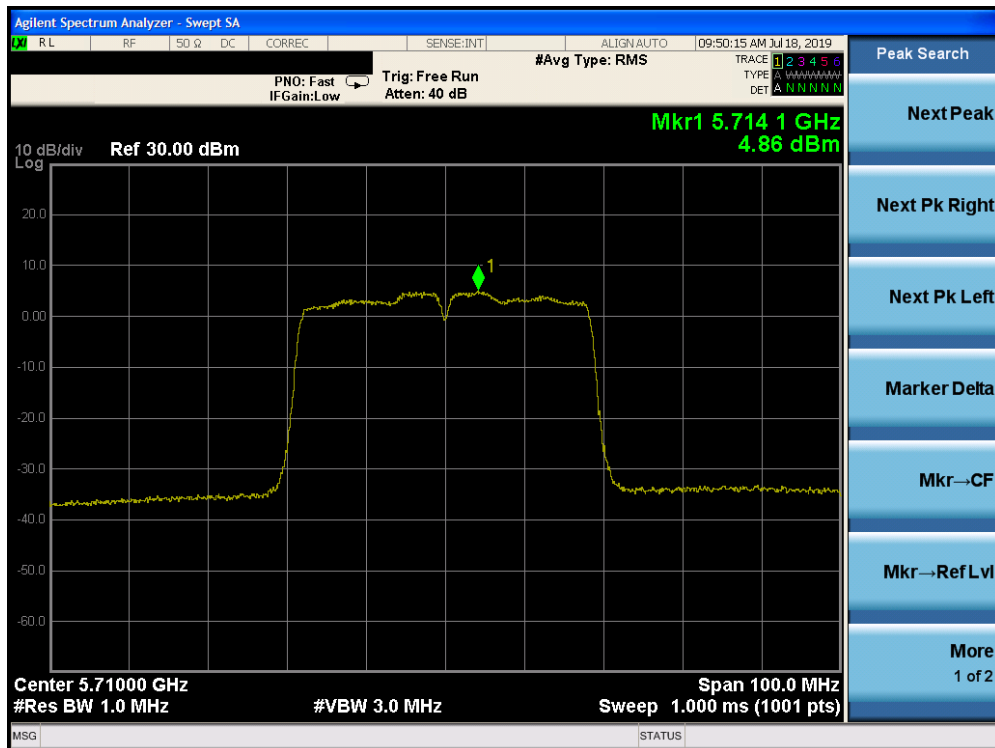


Plot 7-150. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 111 of 208

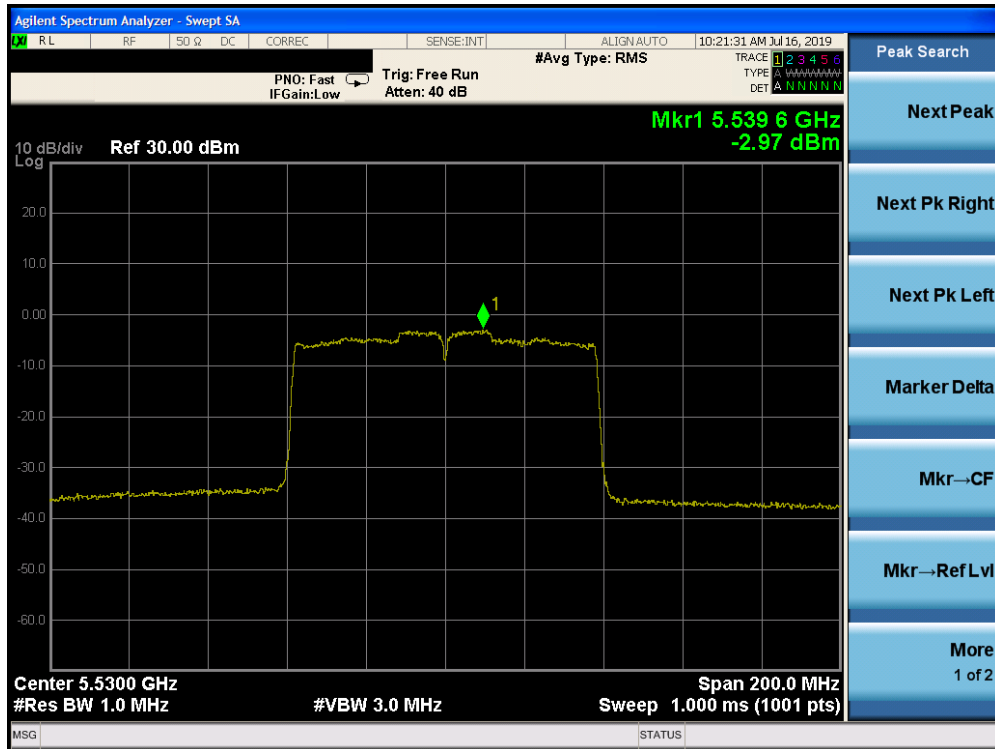


Plot 7-151. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

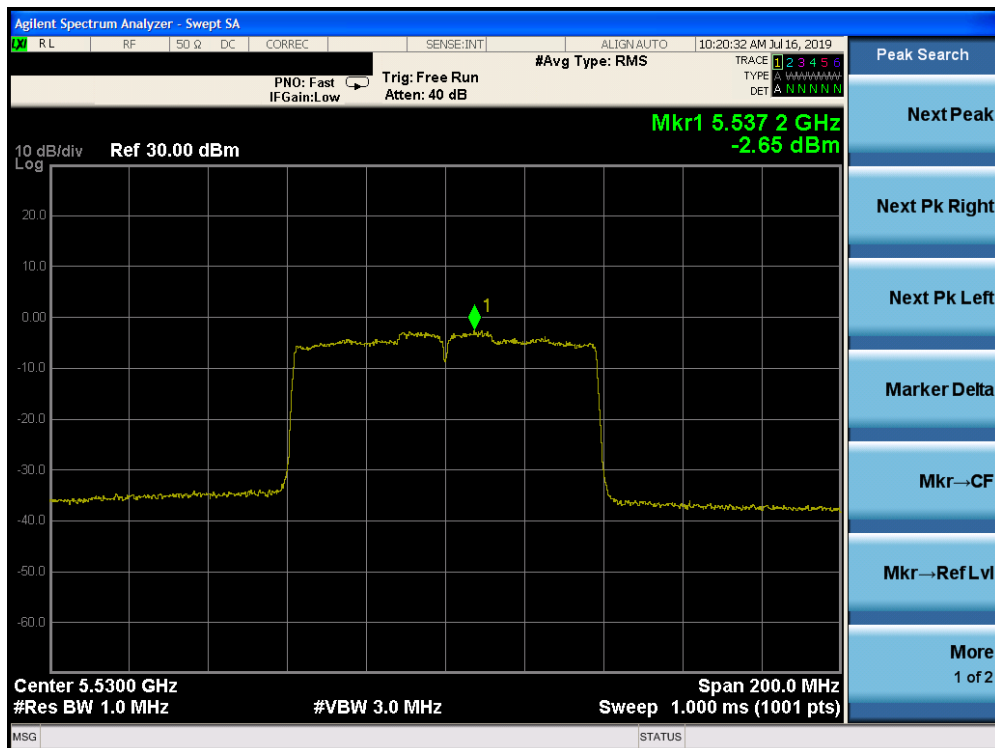


Plot 7-152. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 112 of 208

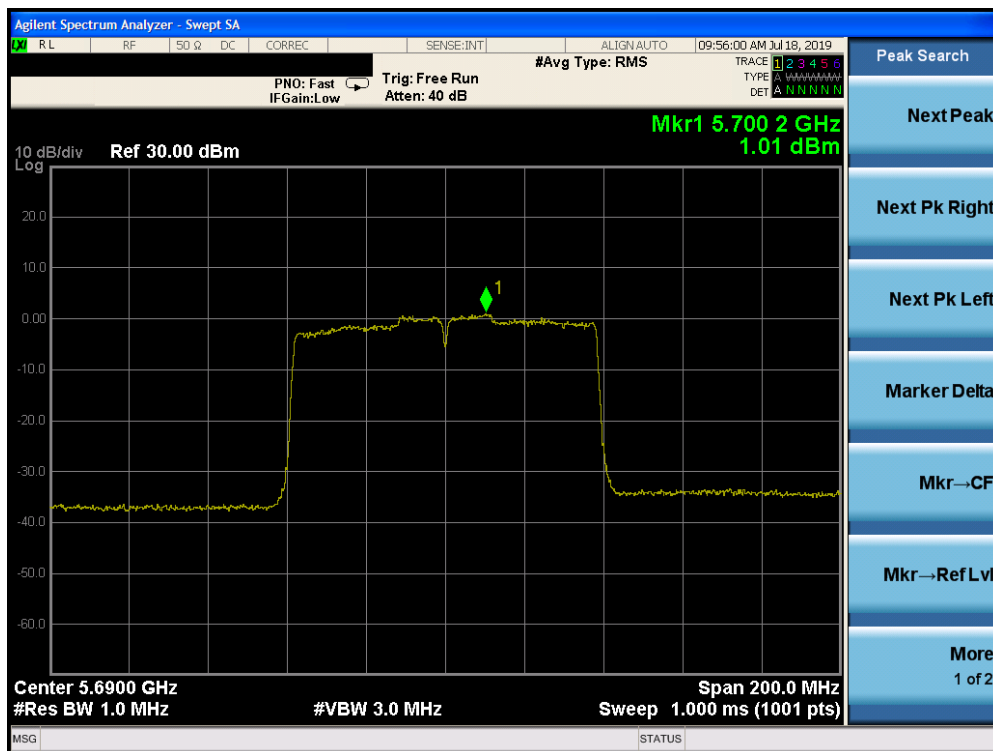


Plot 7-153. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

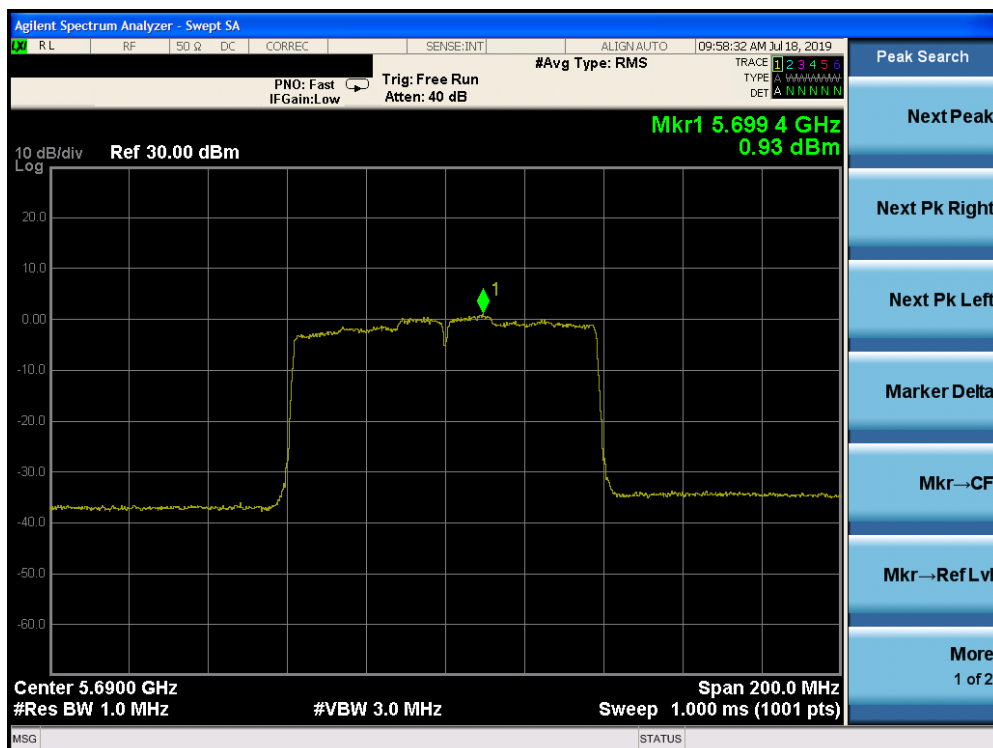


Plot 7-154. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 113 of 208



Plot 7-155. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)



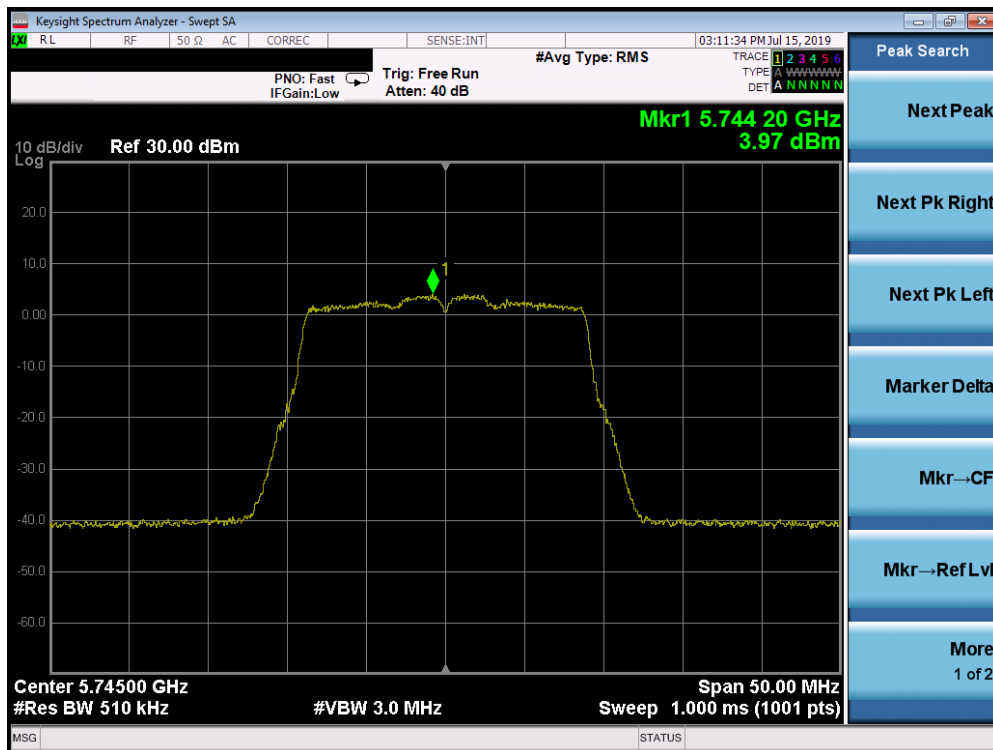
Plot 7-156. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 114 of 208

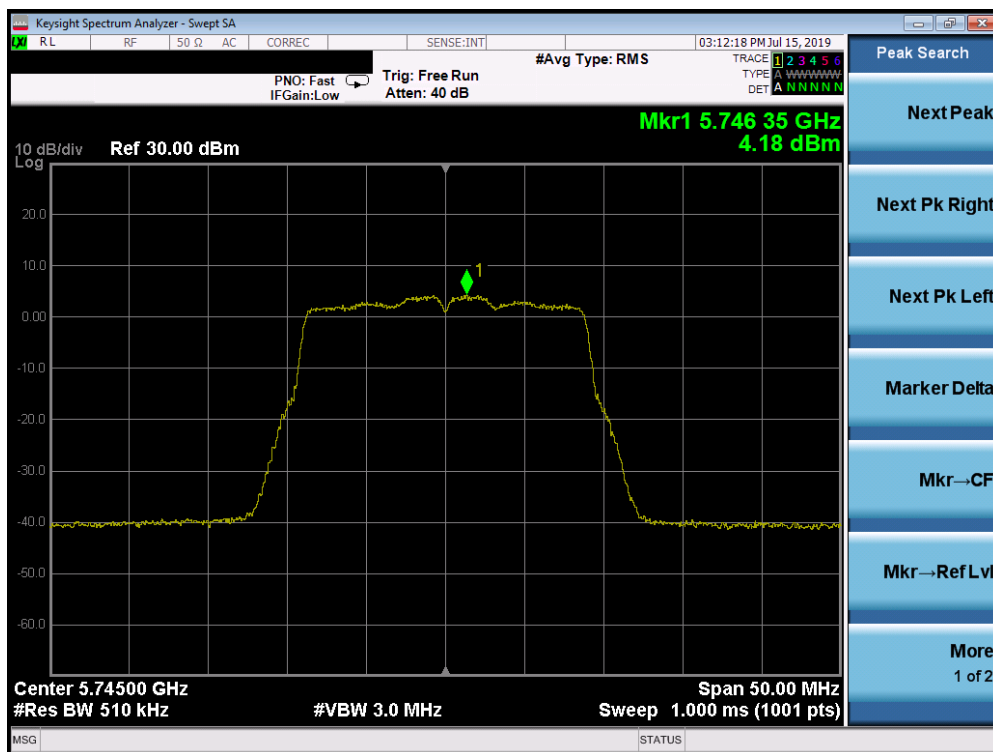
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna Gain (dBi)	Core 0 Power Density [dBm/500kHz]	Core 1 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.39	3.97	4.18	7.09	29.61	-22.52
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	6.39	4.14	4.53	7.35	29.61	-22.26
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.39	3.72	4.60	7.19	29.61	-22.42
	5755	151	n (40MHz)	13.5/15 (MCS0)	6.39	0.99	1.58	4.31	29.61	-25.30
	5795	159	n (40MHz)	13.5/15 (MCS0)	6.39	1.48	1.45	4.48	29.61	-25.13
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	6.39	-1.16	-1.30	1.78	29.61	-27.83

Table 7-34. Band 3 CDD Conducted Power Spectral Density Measurements

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 115 of 208

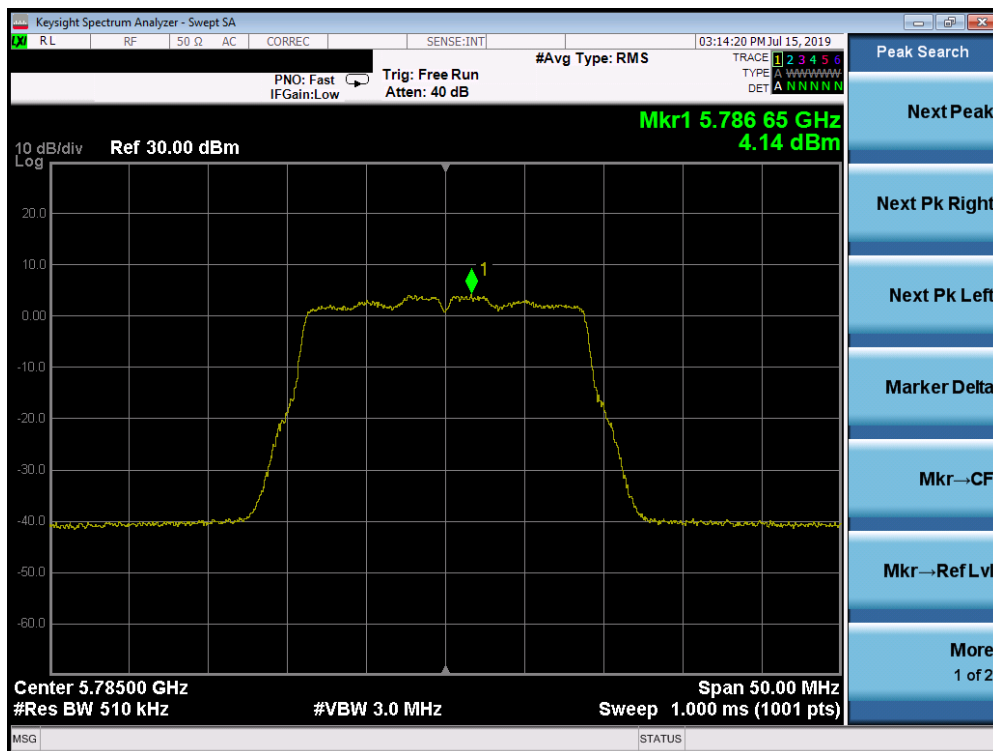


Plot 7-157. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

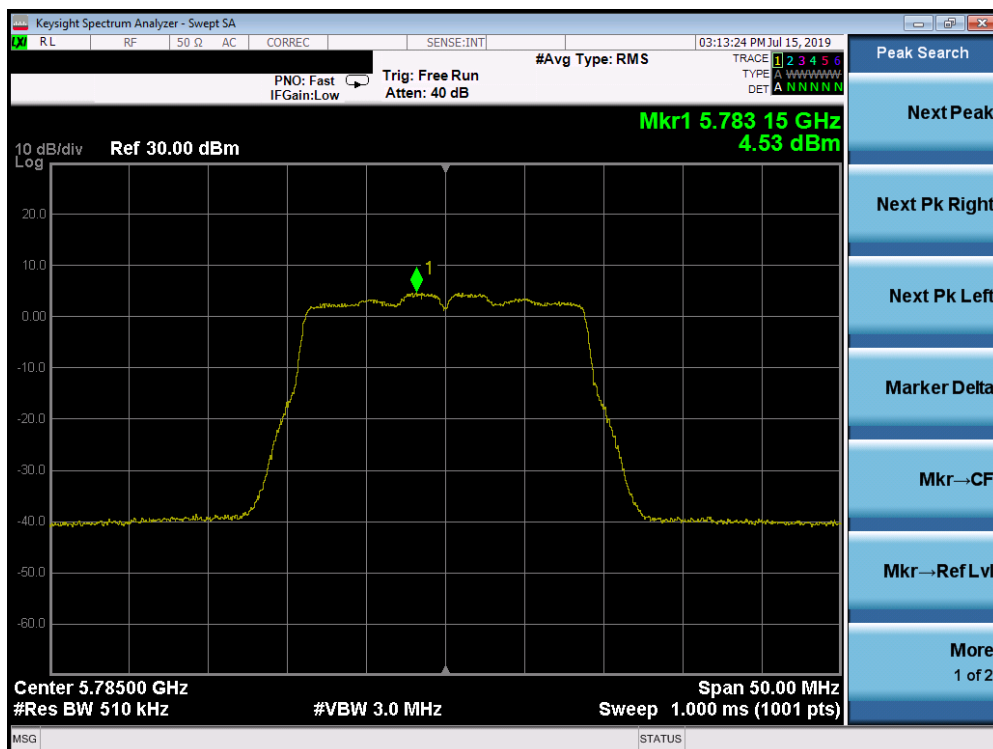


Plot 7-158. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 116 of 208

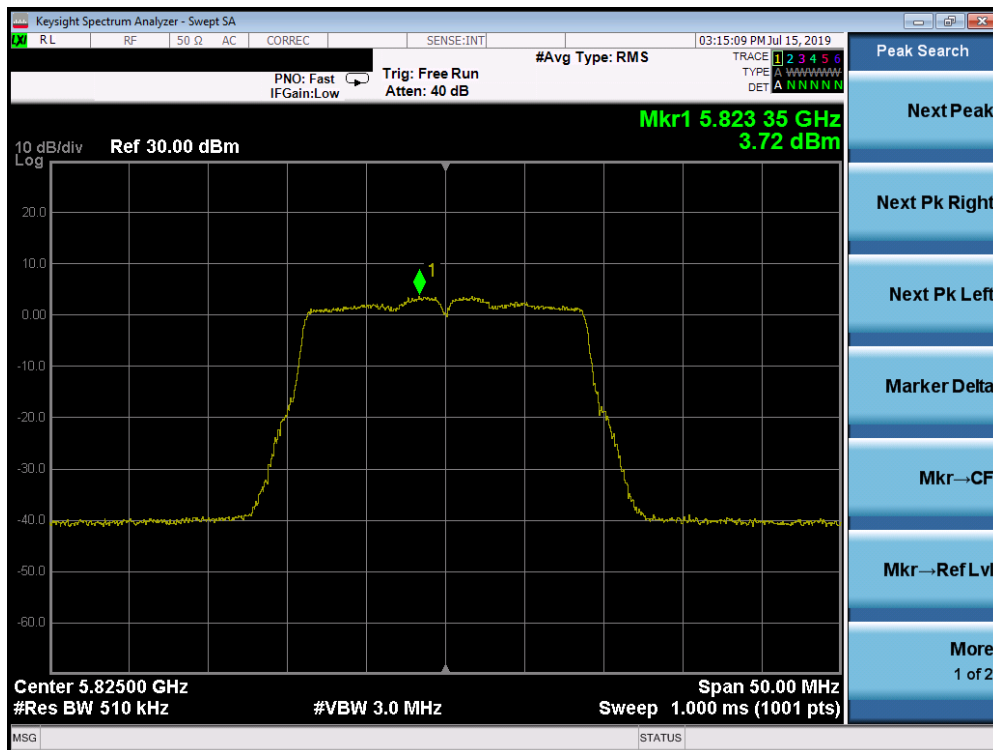


Plot 7-159. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

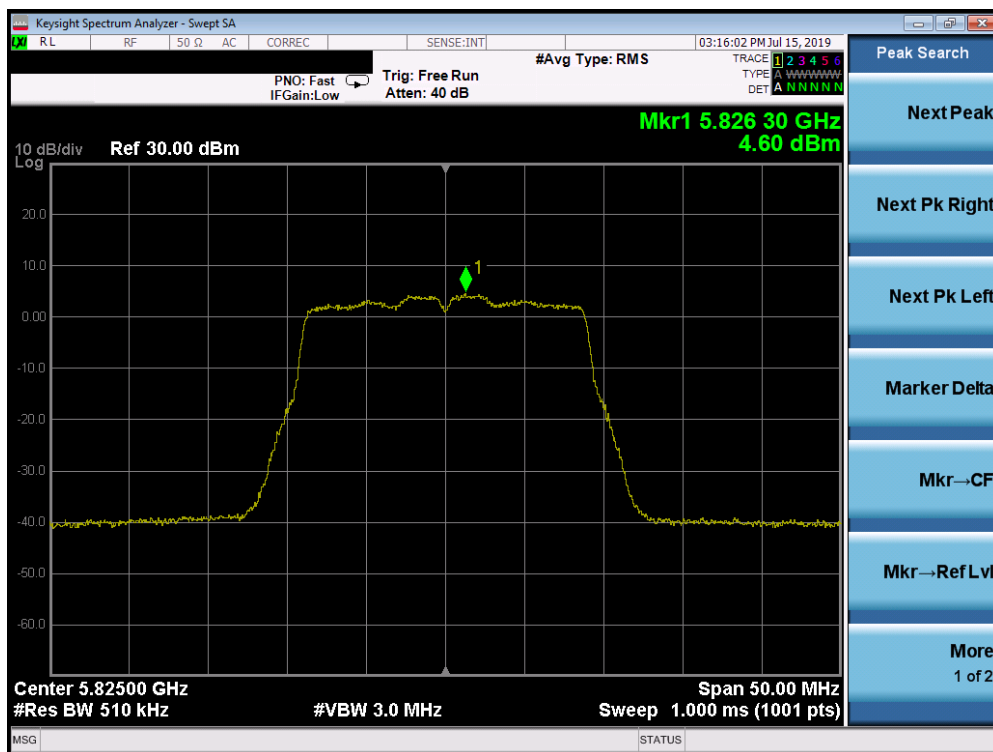


Plot 7-160. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 117 of 208

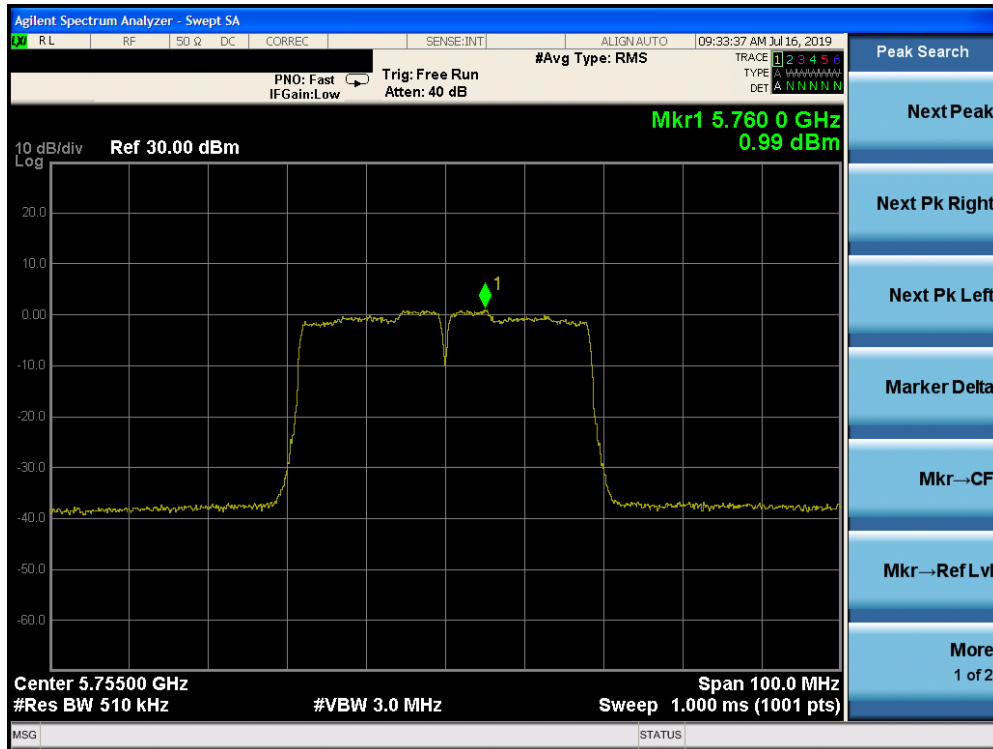


Plot 7-161. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

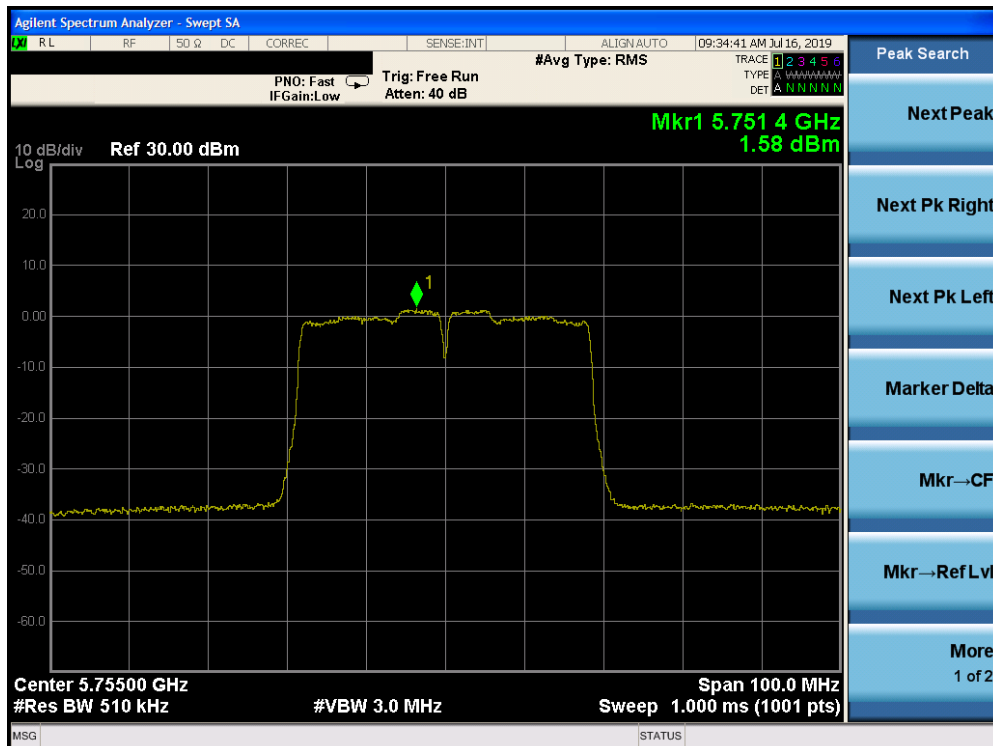


Plot 7-162. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 118 of 208

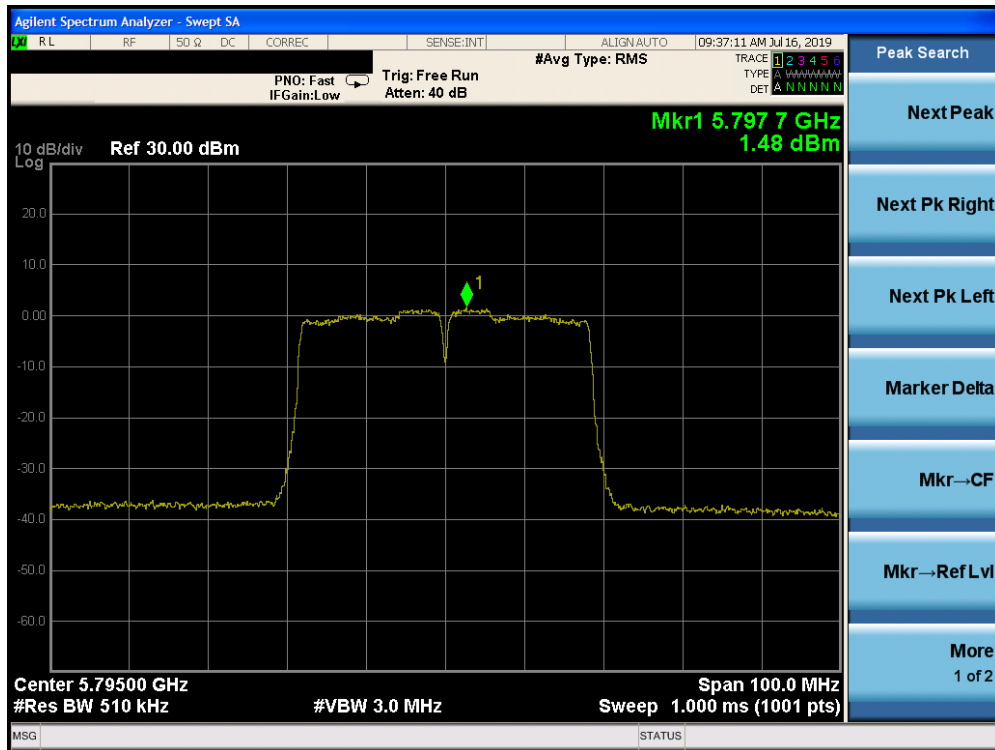


Plot 7-163. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

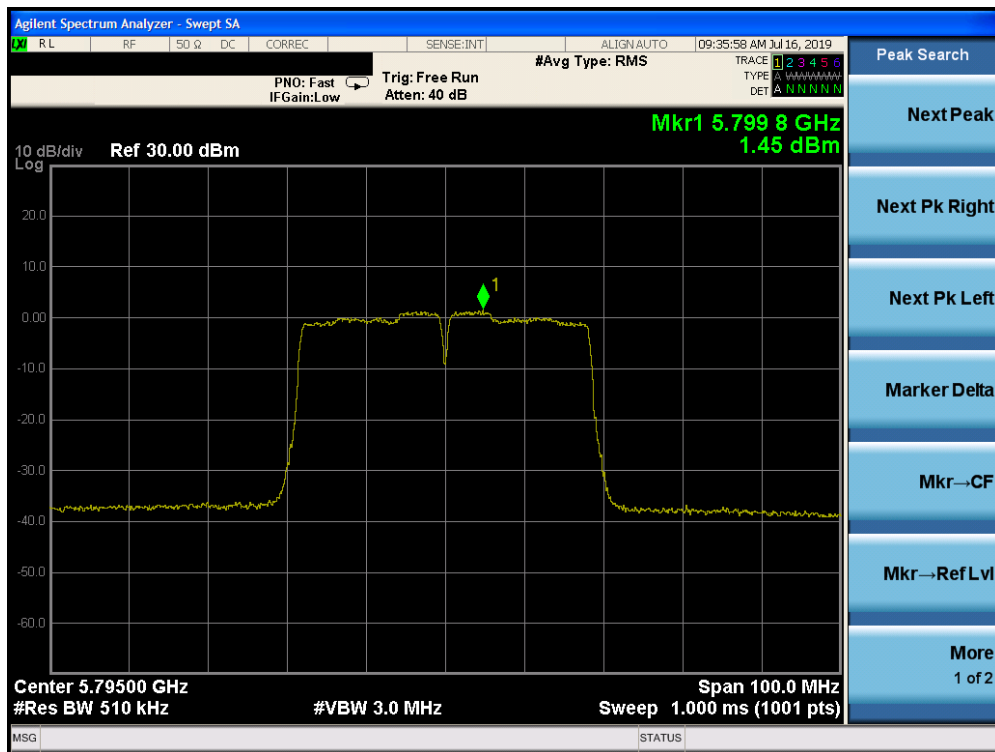


Plot 7-164. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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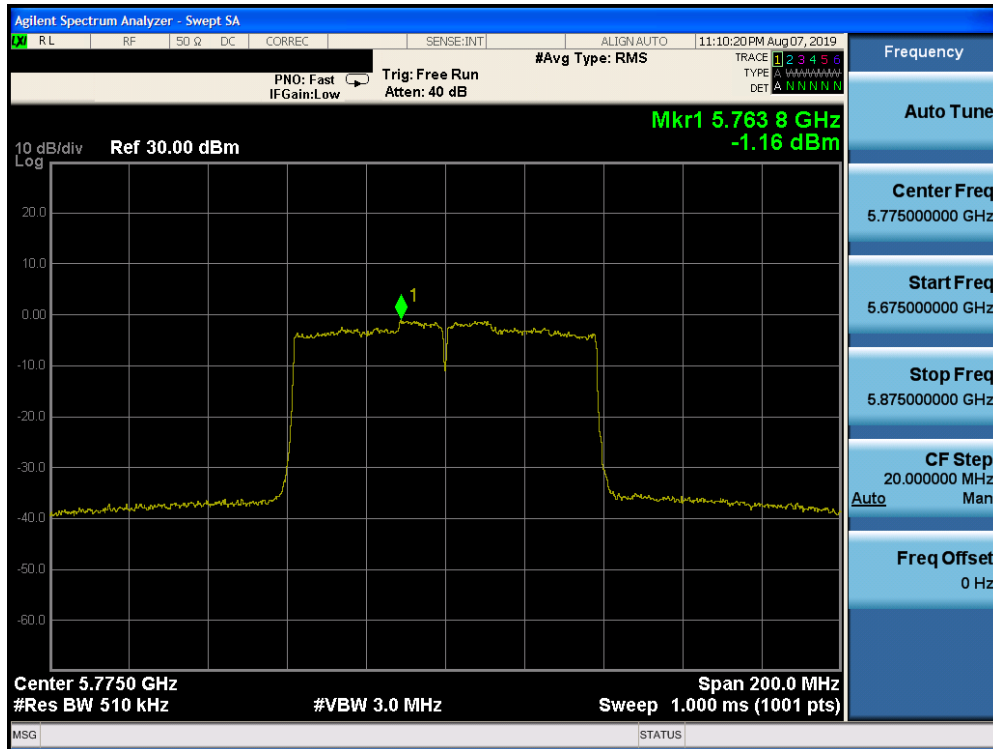


Plot 7-165. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

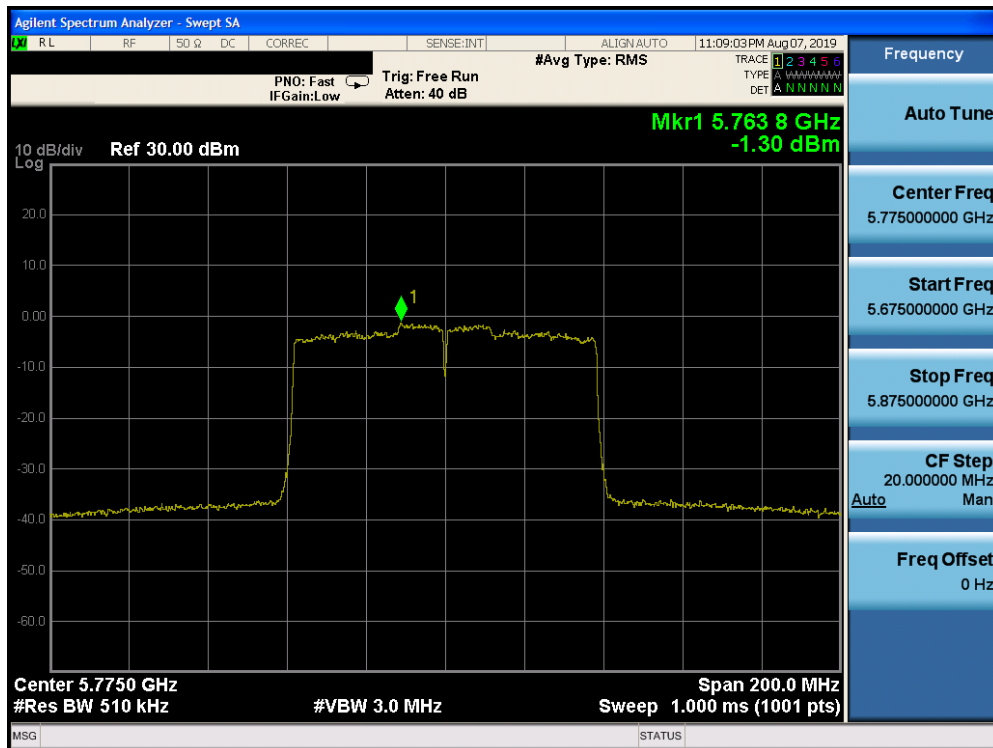


Plot 7-166. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-167. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-168. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Core 0 and Core 1 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 CDD/SDM Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be 5.22 dBm for Core 0 and 5.84 dBm for Core 1.

$$\text{Core 0} + \text{Core 1} = \text{CDD/SDM}$$

$$(5.22 \text{ dBm} + 5.84 \text{ dBm}) = (3.327 \text{ mW} + 3.837 \text{ mW}) = 7.164 \text{ mW} = 8.55 \text{ dBm}$$

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

At 5180MHz in 802.11n (20MHz BW) mode, the average CDD/SDM power density was calculated to be 8.55 dBm with directional gain of 4.99 dBi.

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

$$8.55 \text{ dBm} + 4.99 \text{ dBi} = 13.54 \text{ dBm}$$

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7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-35 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-35. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

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

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Peak Measurements above 1GHz

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

Test Setup

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

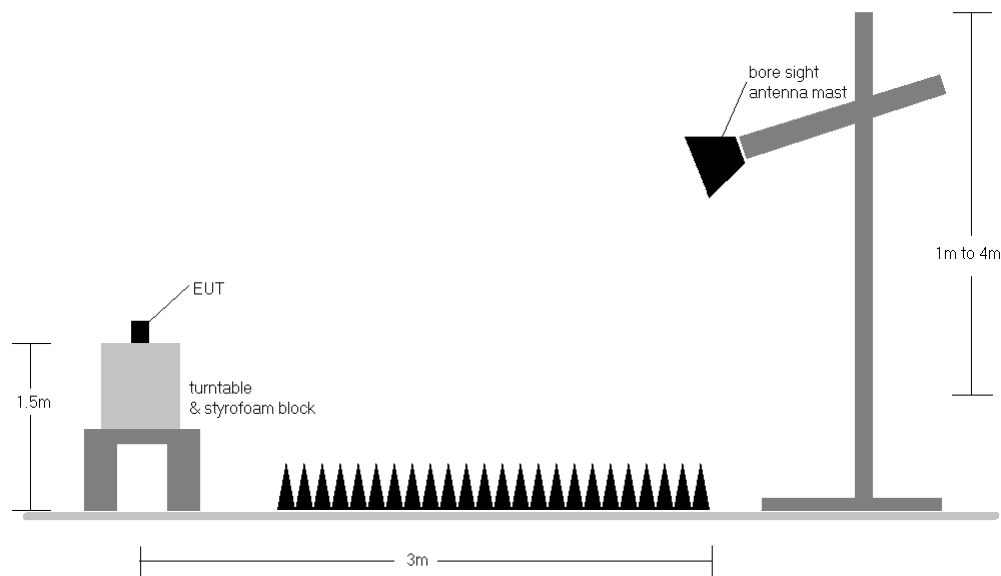


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-35.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-35. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. The unit was tested with all possible mode and power schemes and only the worst case is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

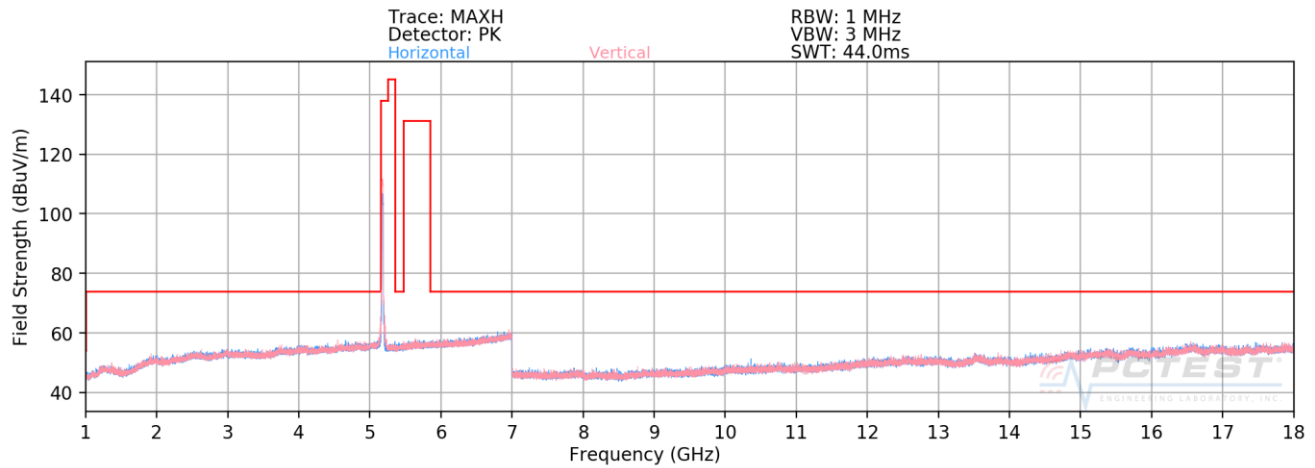
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

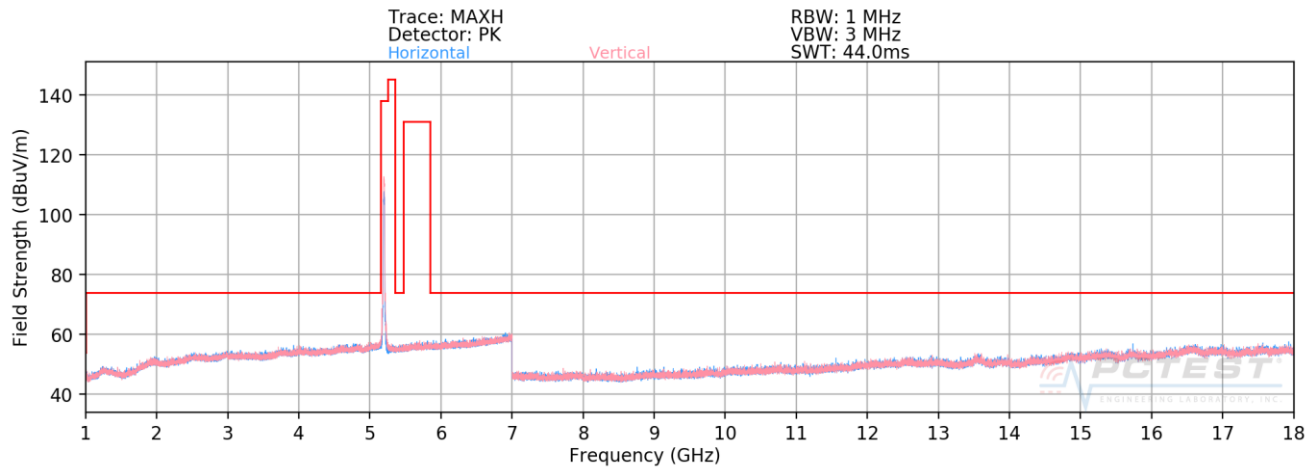
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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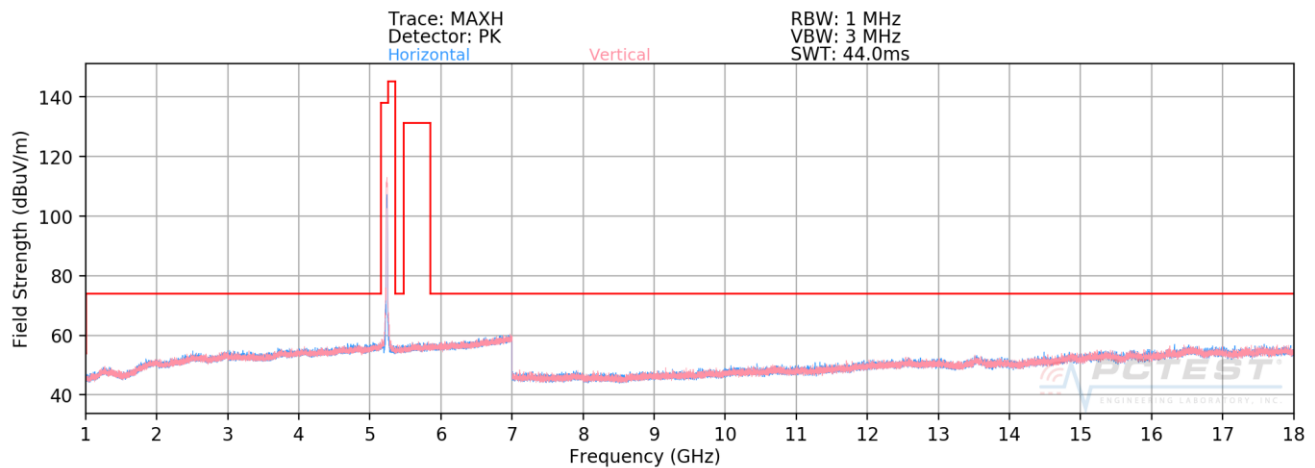
7.6.1 SISO CORE-0 Radiated Spurious Emission Measurements



Plot 7-169. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U1 Ch. 36)

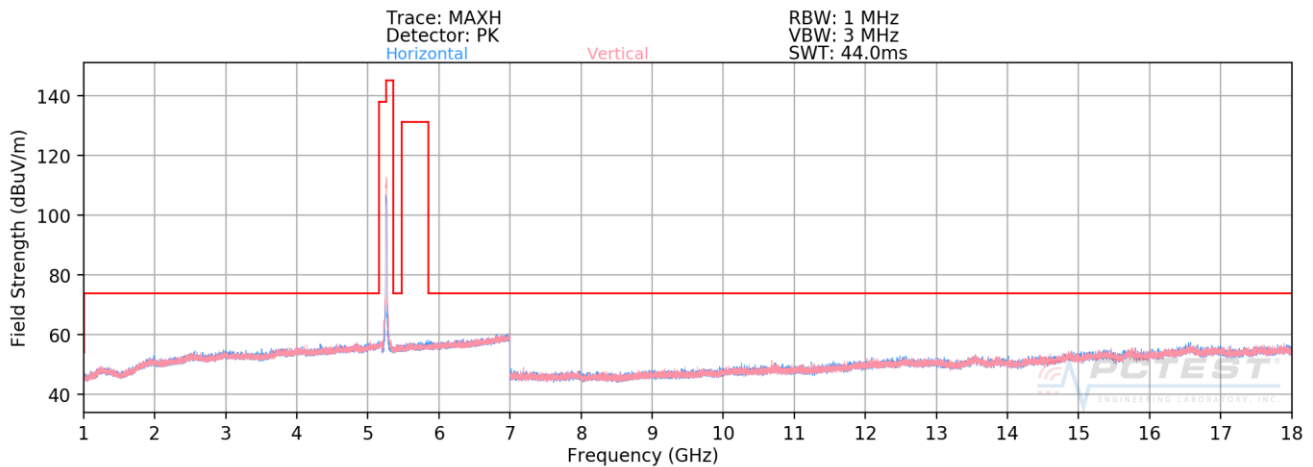


Plot 7-170. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U1 Ch. 40)

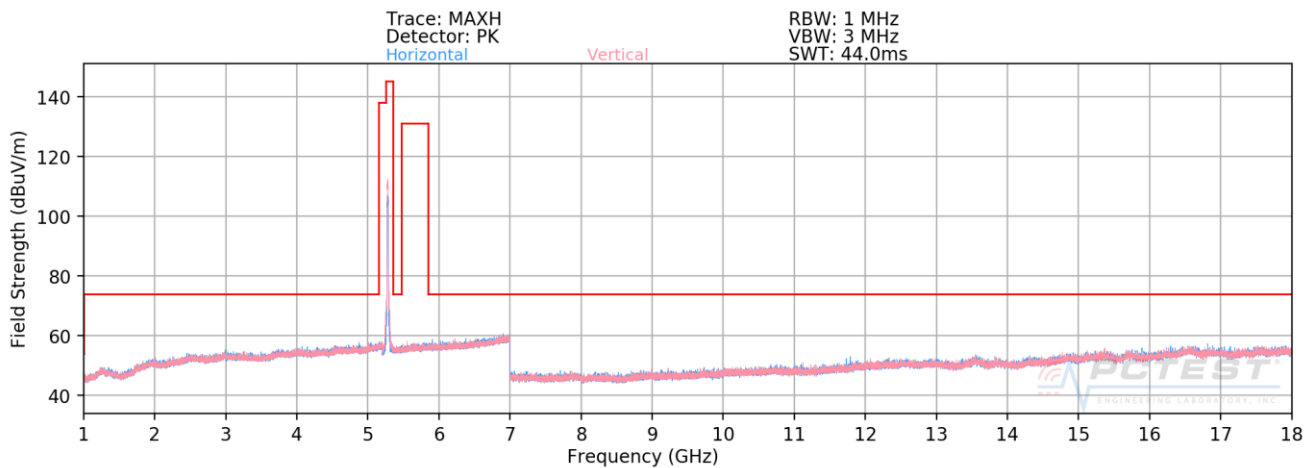


Plot 7-171. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U1 Ch. 48)

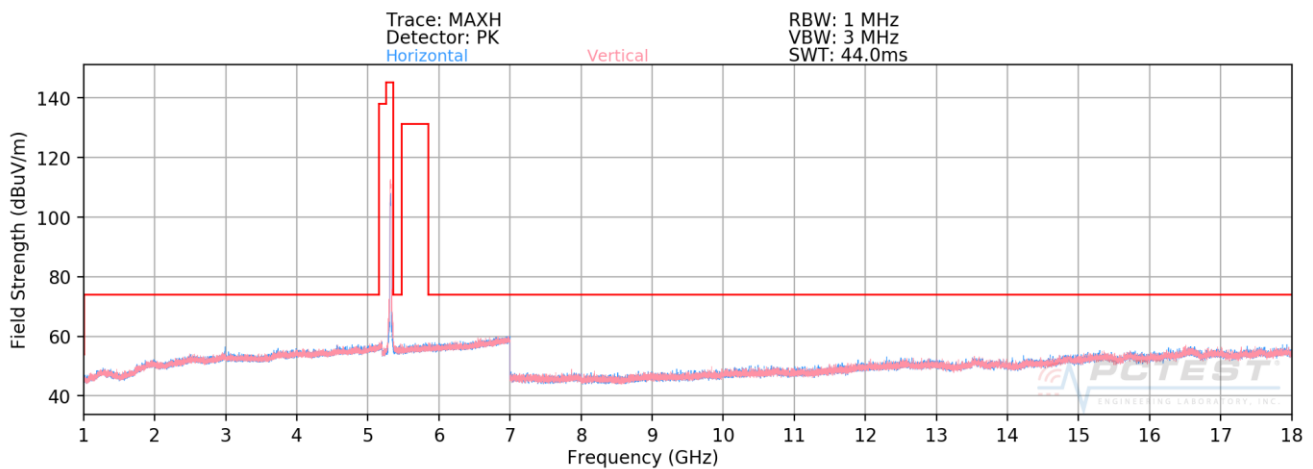
FCC ID: BCGA2198	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device		Page 126 of 208



Plot 7-172. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U2A Ch. 52)

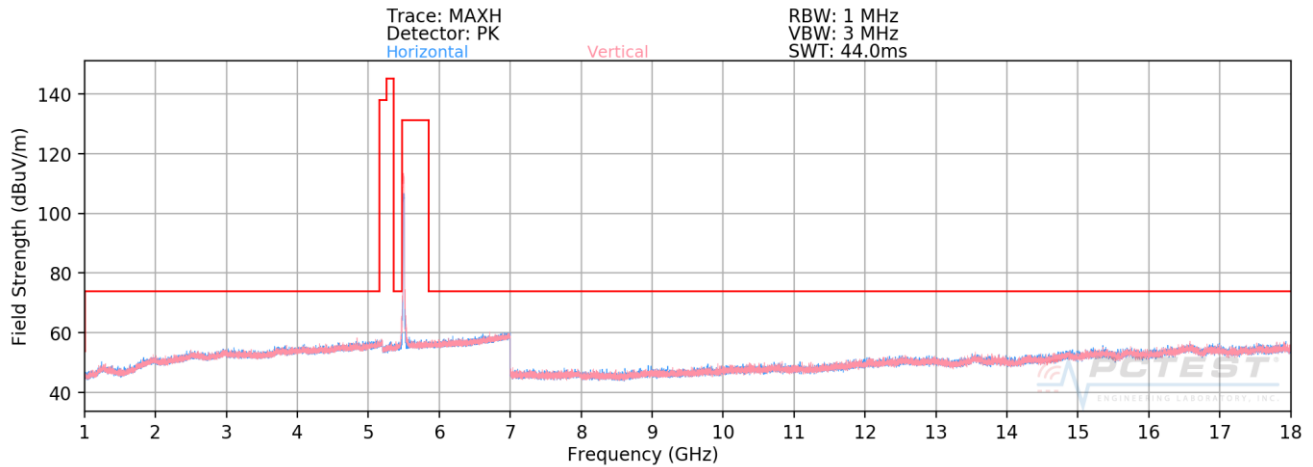


Plot 7-173. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U2A Ch. 56)

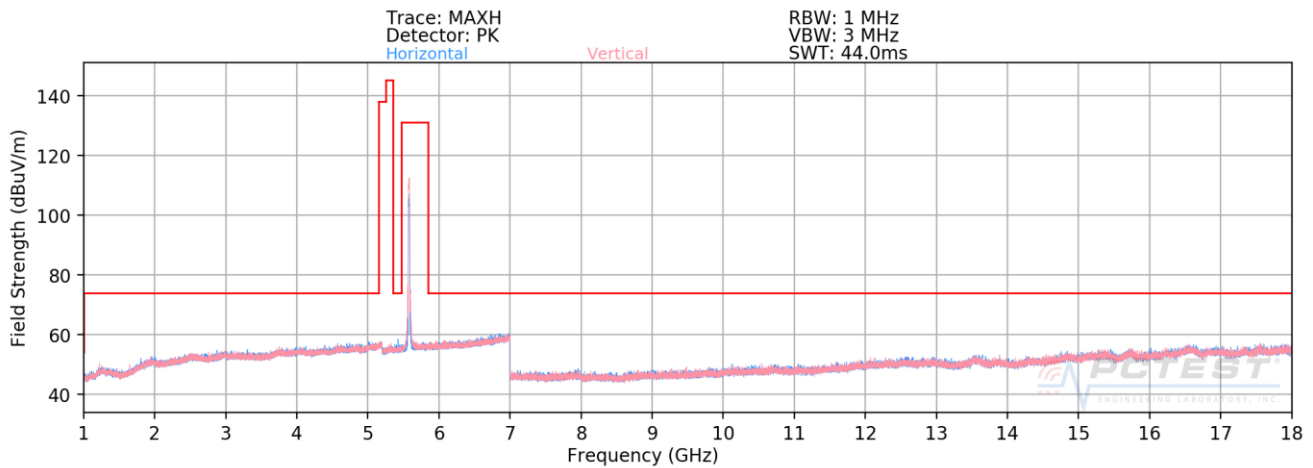


Plot 7-174. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U2A Ch. 64)

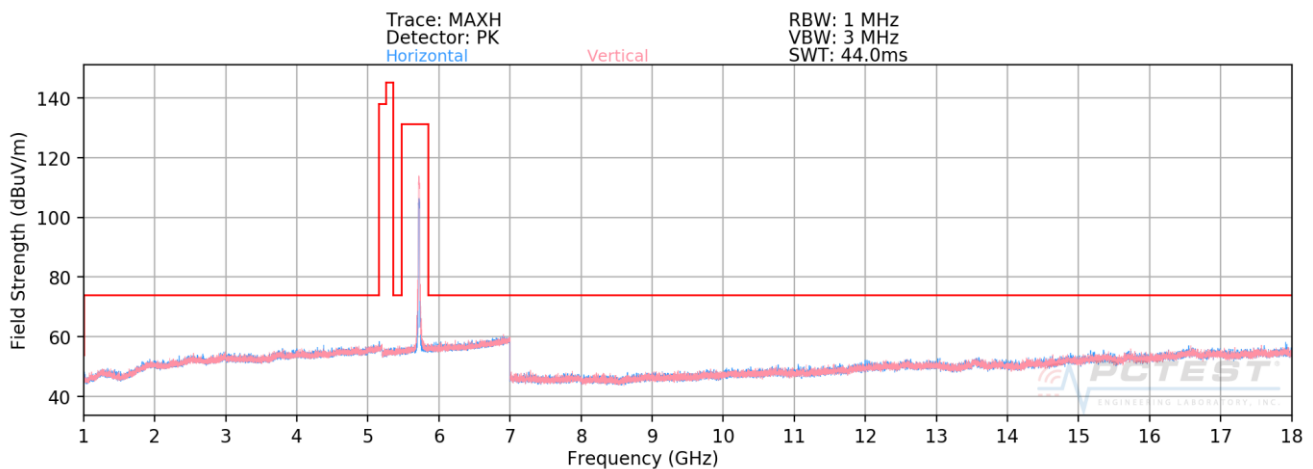
FCC ID: BCGA2198	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-175. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U2C Ch. 100)

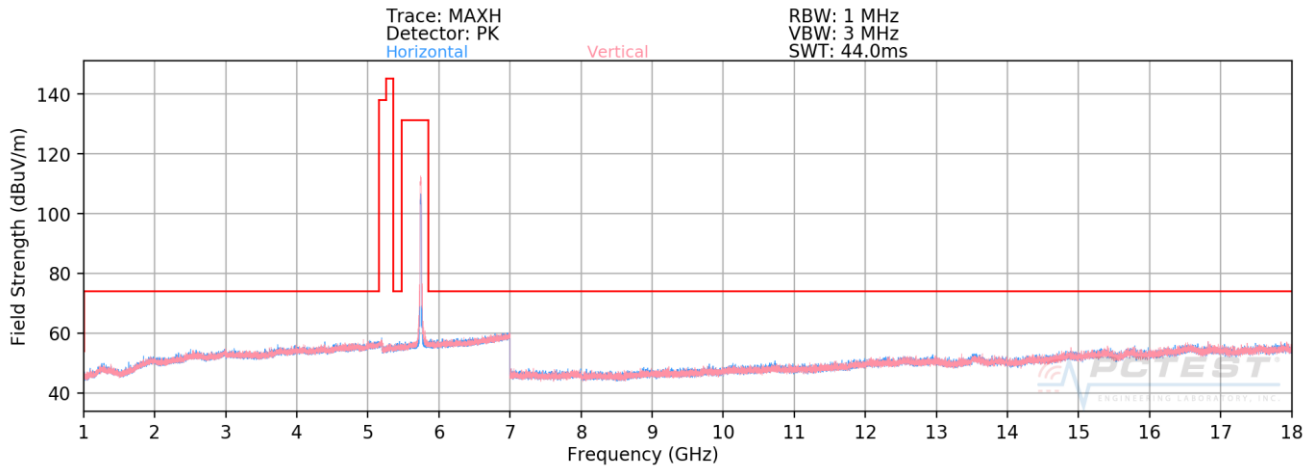


Plot 7-176. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U2C Ch. 116)

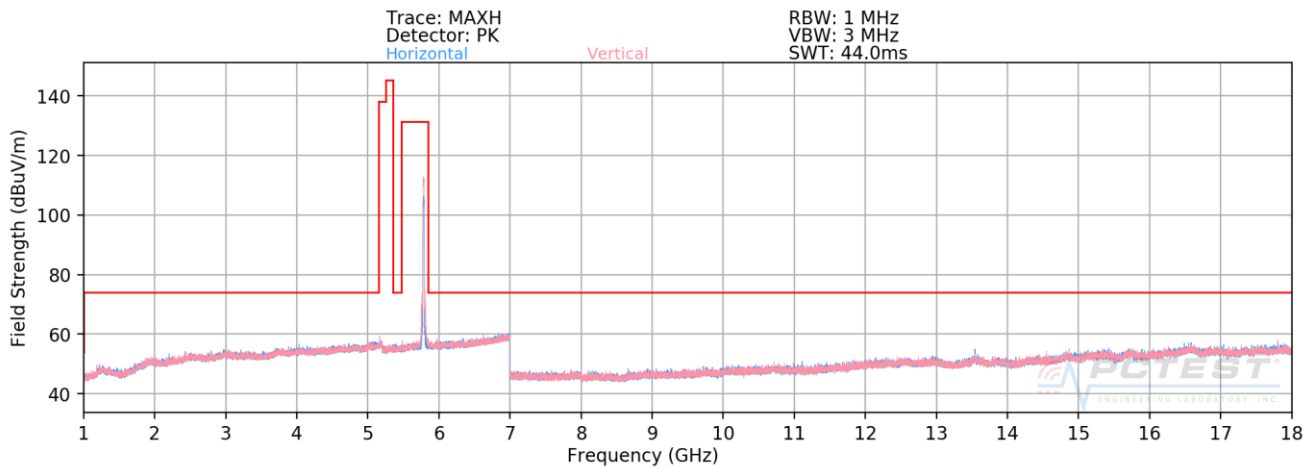


Plot 7-177. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n – U2C Ch. 144)

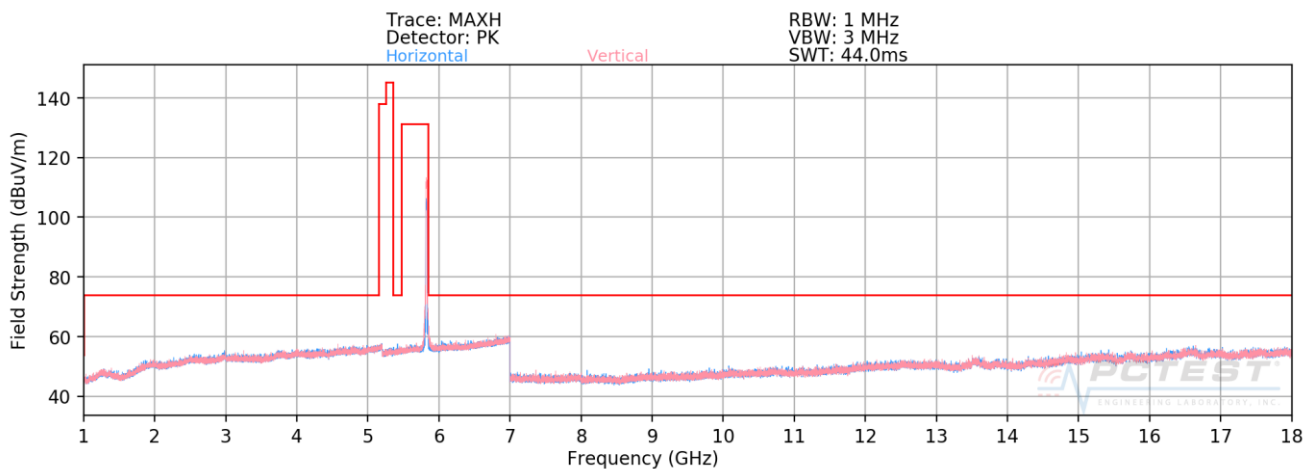
FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-178. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n - U3 Ch. 149)



Plot 7-179. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n - U3 Ch. 157)



Plot 7-180. Radiated Spurious Plot above 1GHz SISO CORE0 (802.11n - U3 Ch. 165)

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SISO CORE-0 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Peak	V	218	19	-69.49	13.02	50.53	68.20	-17.67
15540.00	Average	V	-	-	-83.26	18.55	42.29	53.98	-11.69
15540.00	Peak	V	-	-	-71.46	18.55	54.09	73.98	-19.89

Table 7-36. Radiated Measurements SISO CORE 0

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5200MHz
Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	Peak	V	244	18	-69.25	13.14	50.89	68.20	-17.31
15600.00	Average	V	-	-	-82.96	18.82	42.86	53.98	-11.12
15600.00	Peak	V	-	-	-71.54	18.82	54.28	73.98	-19.70

Table 7-37. Radiated Measurements SISO CORE 0

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 130 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	V	232	19	-69.64	12.89	50.25	68.20	-17.95
15720.00	Average	V	-	-	-84.04	19.82	42.78	53.98	-11.20
15720.00	Peak	V	-	-	-72.42	19.82	54.40	73.98	-19.58

Table 7-38. Radiated Measurements SISO CORE 0

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	254	16	-69.36	12.80	50.44	68.20	-17.76
15780.00	Average	V	-	-	-83.86	19.69	42.83	53.98	-11.15
15780.00	Peak	V	-	-	-72.37	19.69	54.32	73.98	-19.66

Table 7-39. Radiated Measurements SISO CORE 0

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 131 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	227	15	-68.74	12.78	51.04	68.20	-17.16
15840.00	Average	V	-	-	-83.81	19.12	42.31	53.98	-11.66
15840.00	Peak	V	-	-	-72.33	19.12	53.79	73.98	-20.18

Table 7-40. Radiated Measurements SISO CORE 0

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10640.00	Average	V	231	19	-80.24	12.94	39.70	53.98	-14.28
10640.00	Peak	V	231	19	-69.64	12.94	50.30	73.98	-23.68
15960.00	Average	V	-	-	-83.65	19.33	42.68	53.98	-11.30
15960.00	Peak	V	-	-	-71.55	19.33	54.78	73.98	-19.20

Table 7-41. Radiated Measurements SISO CORE 0

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 132 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11000.00	Average	V	-	-	-82.19	13.62	38.43	53.98	-15.55
11000.00	Peak	V	-	-	-70.74	13.62	49.88	73.98	-24.10
16500.00	Peak	V	-	-	-71.47	20.01	55.54	68.20	-12.66

Table 7-42. Radiated Measurements SISO CORE 0

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11160.00	Average	V	-	-	-81.81	13.14	38.33	53.98	-15.65
11160.00	Peak	V	-	-	-69.43	13.14	50.71	73.98	-23.27
16740.00	Peak	V	-	-	-72.44	20.11	54.67	68.20	-13.53

Table 7-43. Radiated Measurements SISO CORE 0

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 133 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11419.00	Average	V	-	-	-82.59	13.65	38.06	53.98	-15.92
11419.00	Peak	V	-	-	-71.39	13.65	49.26	73.98	-24.72
17160.00	Peak	V	-	-	-72.62	19.94	54.32	68.20	-13.88

Table 7-44. Radiated Measurements SISO CORE 0

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	Average	V	-	-	-82.72	14.38	38.66	53.98	-15.32
11490.00	Peak	V	-	-	-71.34	14.38	50.04	73.98	-23.94
17235.00	Peak	V	-	-	-72.29	20.19	54.90	68.20	-13.30

Table 7-45. Radiated Measurements SISO CORE 0

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 134 of 208

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5785MHz
Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	Average	V	-	-	-82.31	14.17	38.86	53.98	-15.12
11570.00	Peak	V	-	-	-70.42	14.17	50.75	73.98	-23.23
17355.00	Peak	V	-	-	-72.19	20.58	55.39	68.20	-12.81

Table 7-46. Radiated Measurements SISO CORE 0

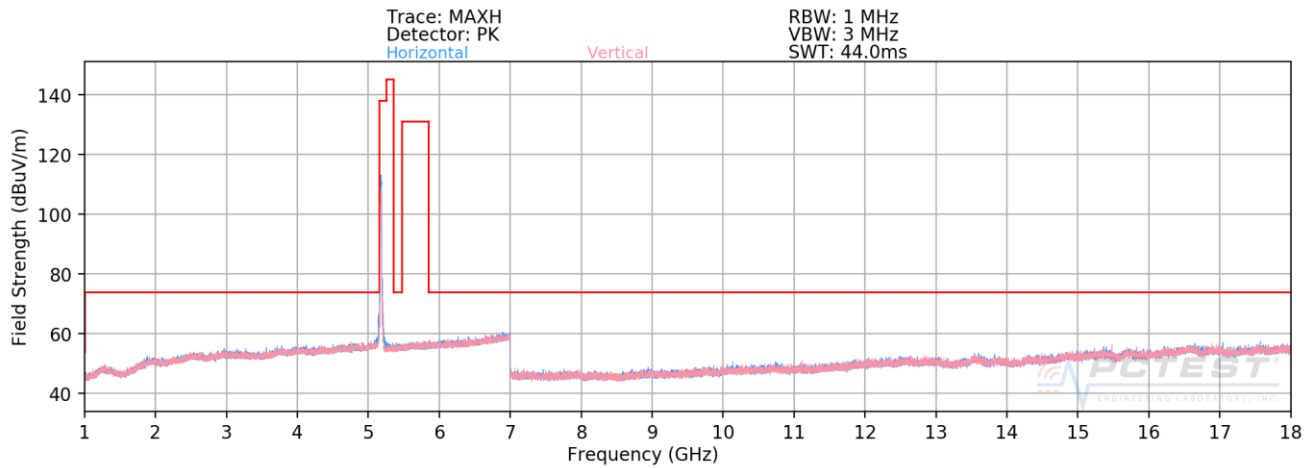
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5825MHz
Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11650.00	Average	V	242	70	-80.23	14.37	41.14	53.98	-12.84
11650.00	Peak	V	242	70	-69.89	14.37	51.48	73.98	-22.50
17475.00	Peak	V	-	-	-71.48	20.57	56.09	68.20	-12.11

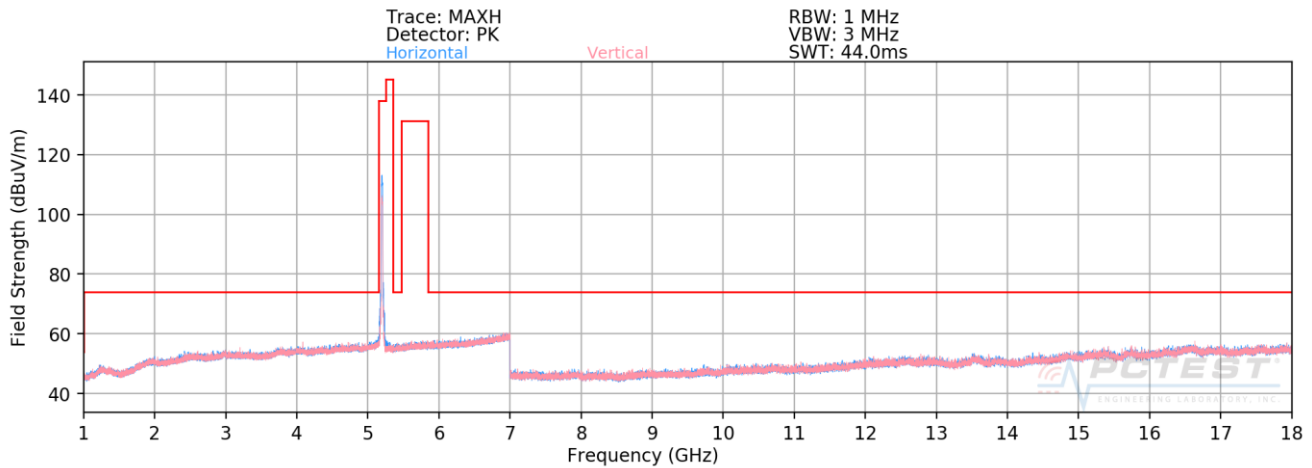
Table 7-47. Radiated Measurements SISO CORE 0

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 135 of 208

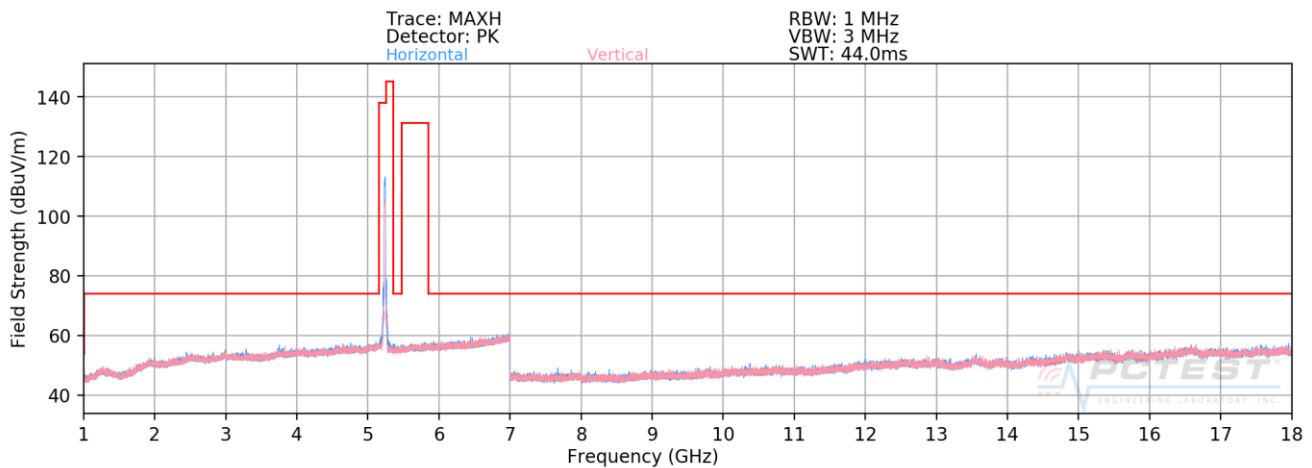
7.6.2 SISO CORE-1 Radiated Spurious Emission Measurements



Plot 7-181. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U1 Ch. 36)

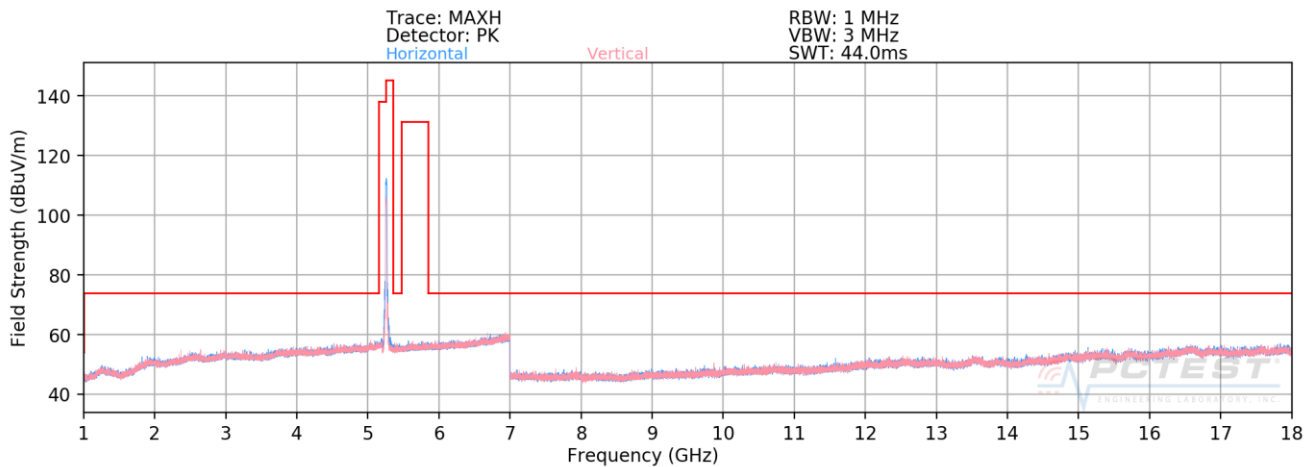


Plot 7-182. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U1 Ch. 40)

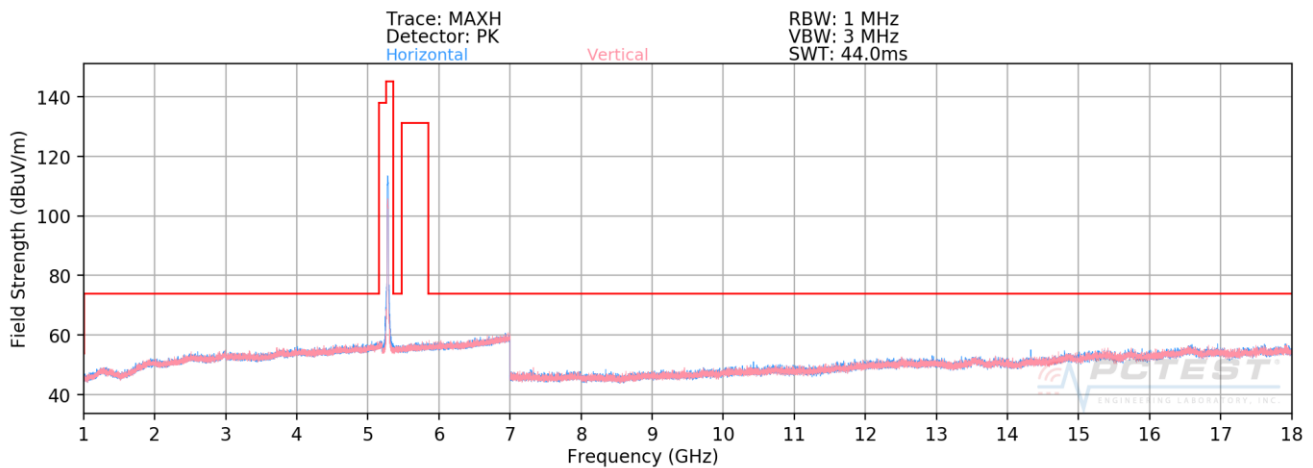


Plot 7-183. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U1 Ch. 48)

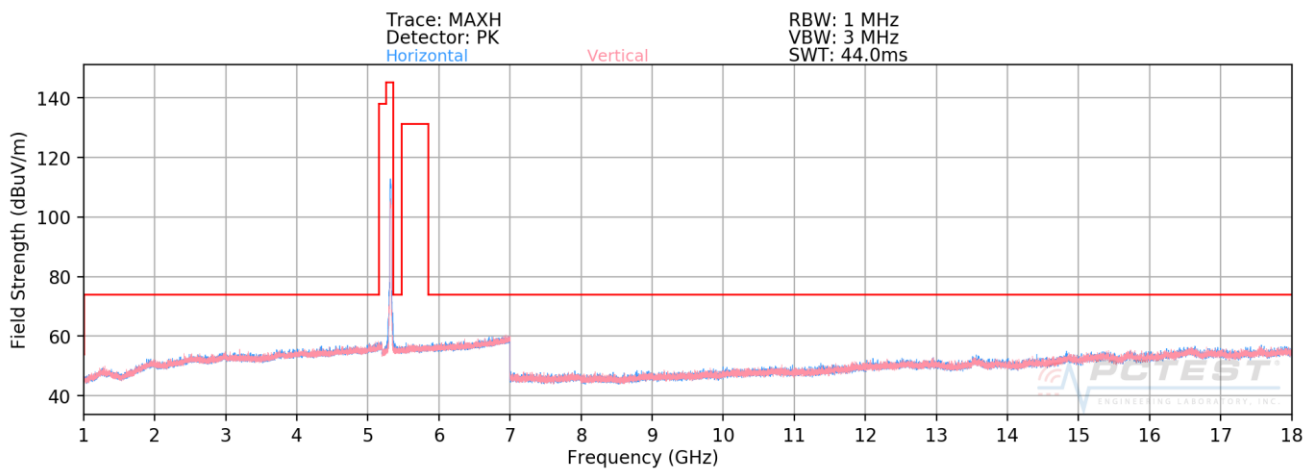
FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 136 of 208



Plot 7-184. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U2A Ch. 52)

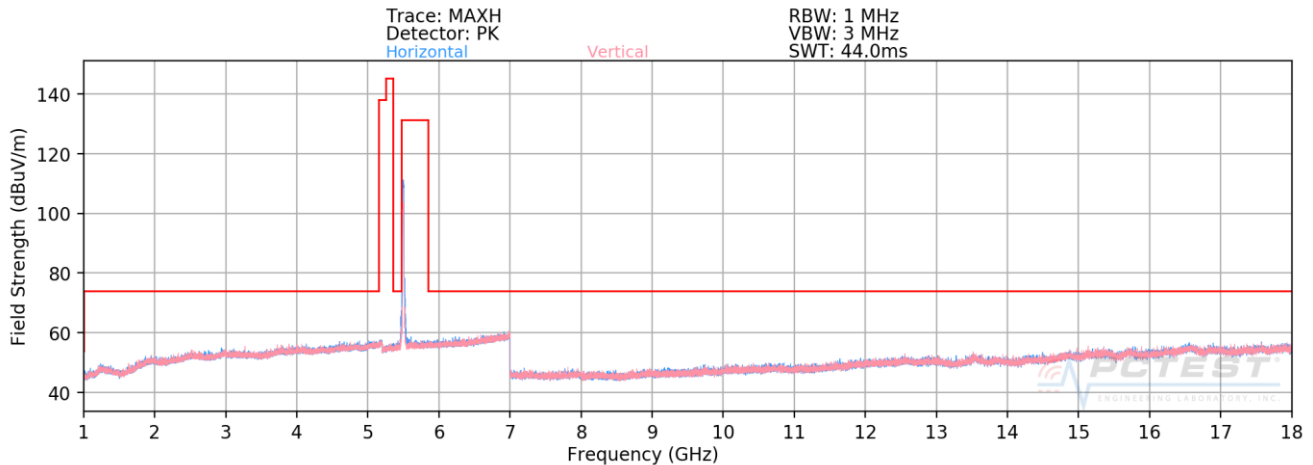


Plot 7-185. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U2A Ch. 56)

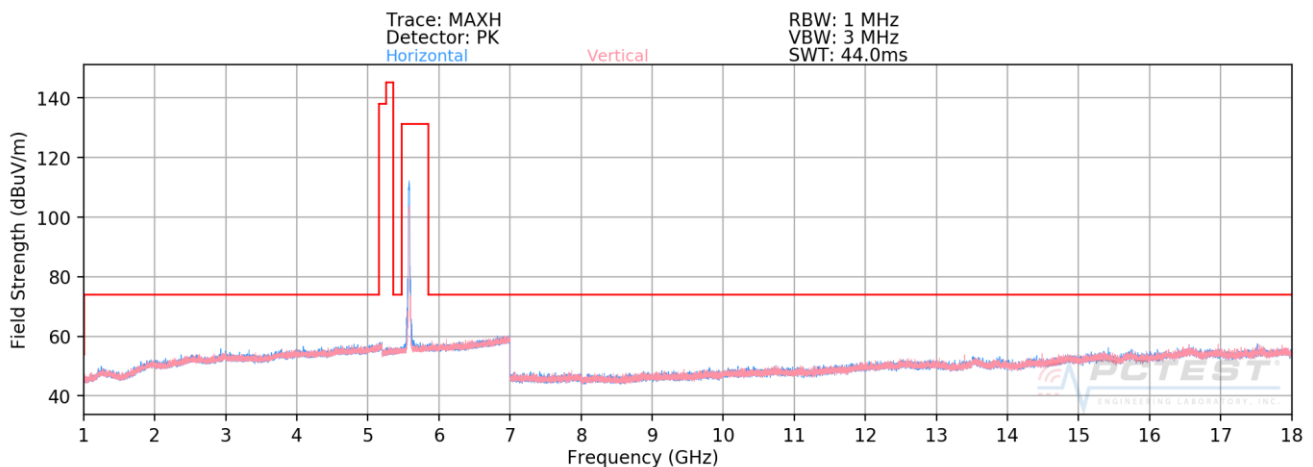


Plot 7-186. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U2A Ch. 64)

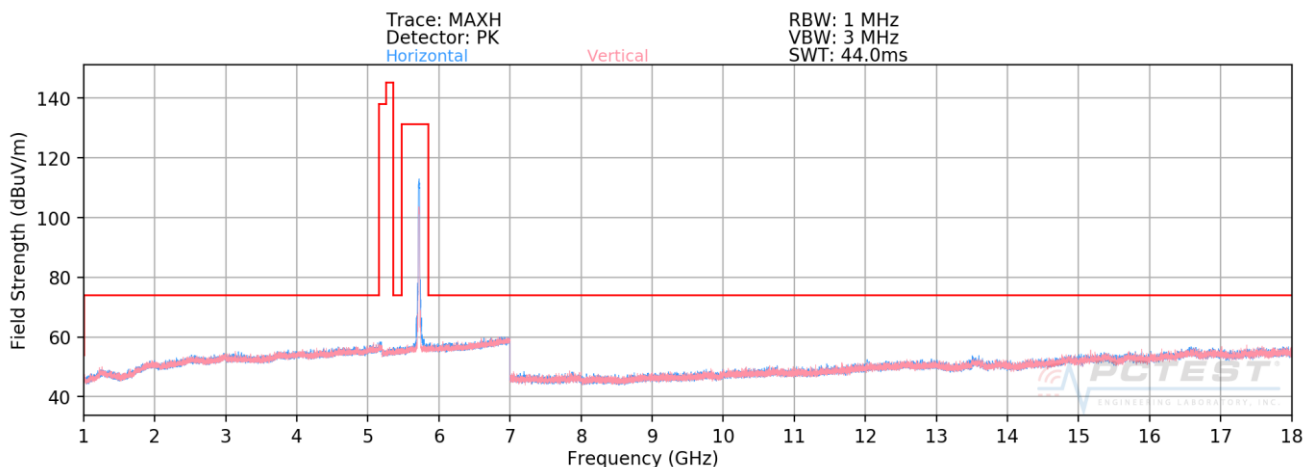
FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 137 of 208



Plot 7-187. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U2C Ch. 100)

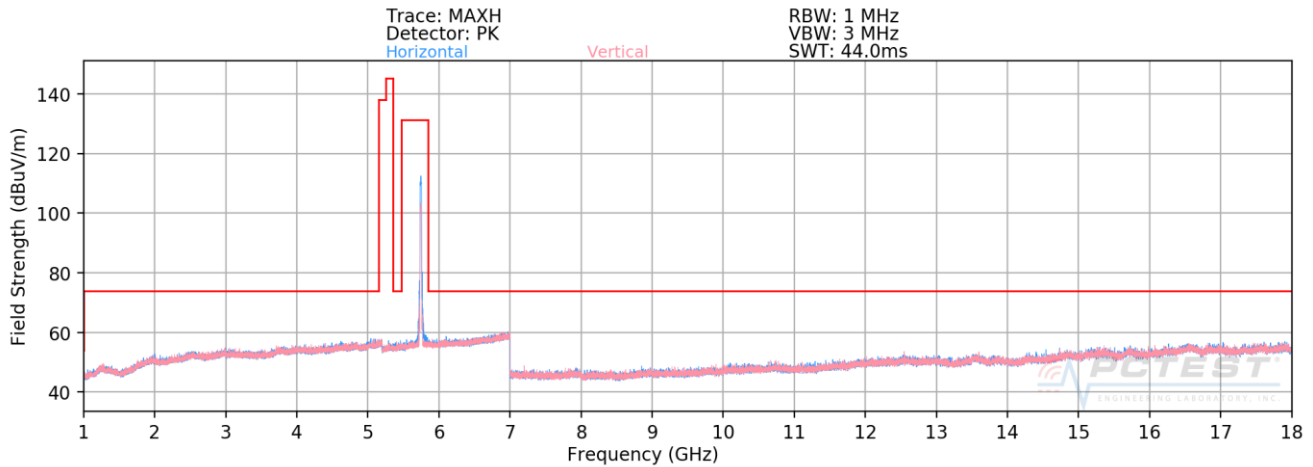


Plot 7-188. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U2C Ch. 116)

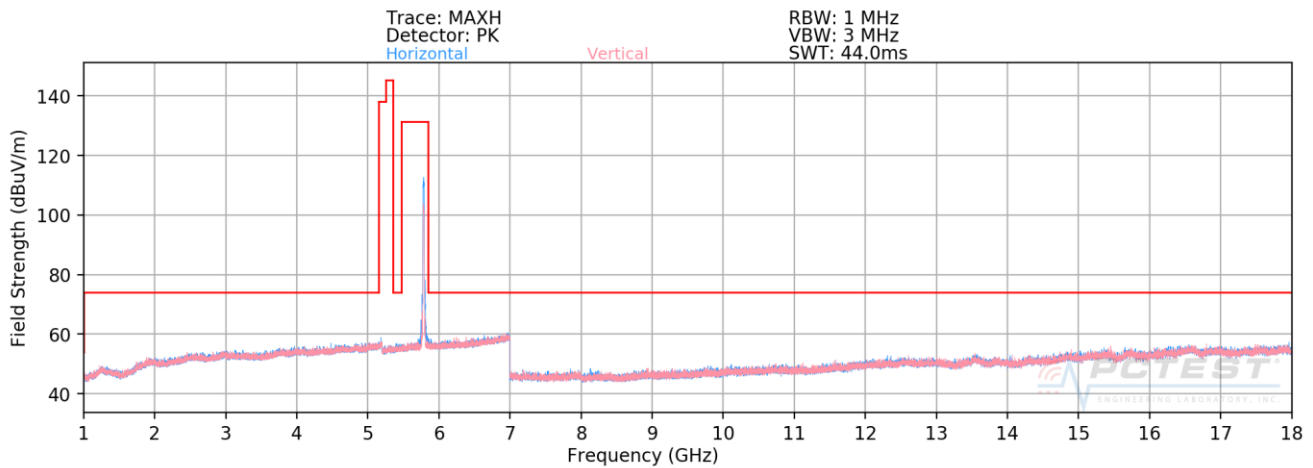


Plot 7-189. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U2C Ch. 144)

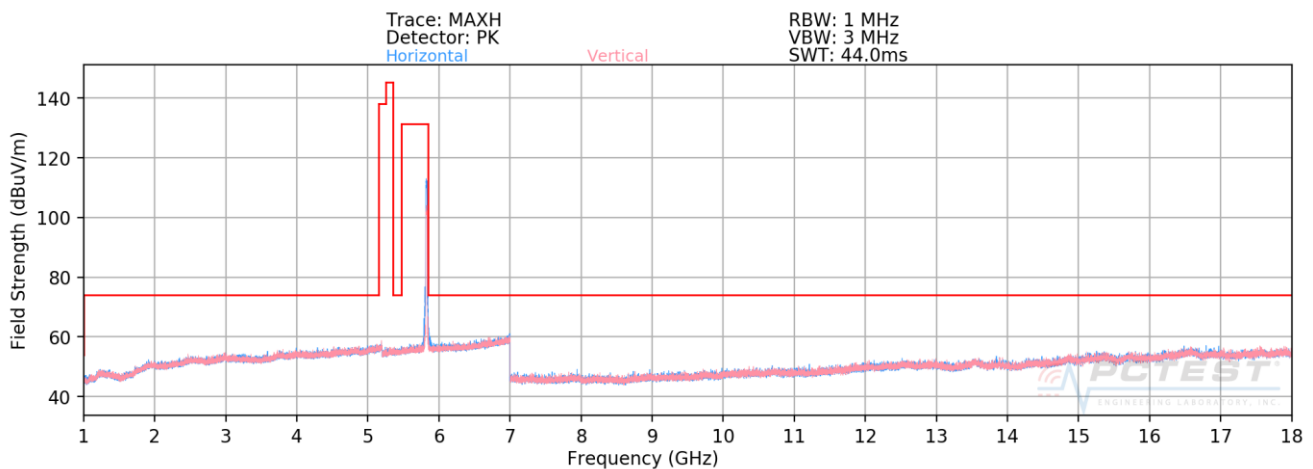
FCC ID: BCGA2198	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device		Page 138 of 208



Plot 7-190. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U3 Ch. 149)



Plot 7-191. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U3 Ch. 157)



Plot 7-192. Radiated Spurious Plot above 1GHz SISO CORE 1 (802.11n – U3 Ch. 165)

FCC ID: BCGA2198	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device		Page 139 of 208

SISO CORE-1 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

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

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	Peak	V	116	108	-69.90	13.02	50.12	68.20	-18.08
15540.00	Average	H	-	-	-83.16	18.55	42.39	53.98	-11.59
15540.00	Peak	H	-	-	-71.55	18.55	54.00	73.98	-19.98

Table 7-48. Radiated Measurements SISO CORE 1

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5200MHz
Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	Peak	H	-	-	-70.25	13.14	49.89	68.20	-18.31
15600.00	Average	H	-	-	-83.18	18.82	42.64	53.98	-11.34
15600.00	Peak	H	-	-	-71.99	18.82	53.83	73.98	-20.15

Table 7-49. Radiated Measurements SISO CORE 1

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 140 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-70.43	12.89	49.46	68.20	-18.74
15720.00	Average	H	-	-	-84.30	19.82	42.52	53.98	-11.46
15720.00	Peak	H	-	-	-72.96	19.82	53.86	73.98	-20.12

Table 7-50. Radiated Measurements SISO CORE 1

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-69.67	12.80	50.13	68.20	-18.07
15780.00	Average	H	-	-	-84.08	19.69	42.61	53.98	-11.37
15780.00	Peak	H	-	-	-72.91	19.69	53.78	73.98	-20.20

Table 7-51. Radiated Measurements SISO CORE 1

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 141 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	-	-	-70.40	12.78	49.38	68.20	-18.82
15840.00	Average	H	-	-	-84.02	19.12	42.10	53.98	-11.87
15840.00	Peak	H	-	-	-72.72	19.12	53.40	73.98	-20.57

Table 7-52. Radiated Measurements SISO CORE 1

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10640.00	Average	V	113	112	-80.95	12.94	38.99	53.98	-14.99
10640.00	Peak	V	113	112	-70.26	12.94	49.68	73.98	-24.30
15960.00	Average	H	-	-	-83.36	19.33	42.97	53.98	-11.01
15960.00	Peak	H	-	-	-72.02	19.33	54.31	73.98	-19.67

Table 7-53. Radiated Measurements SISO CORE 1

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 142 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11000.00	Average	H	-	-	-82.54	13.62	38.08	53.98	-15.90
11000.00	Peak	H	-	-	-70.32	13.62	50.30	73.98	-23.68
16500.00	Peak	H	-	-	-72.18	20.01	54.83	68.20	-13.37

Table 7-54. Radiated Measurements SISO CORE 1

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11160.00	Average	H	-	-	-81.79	13.14	38.35	53.98	-15.63
11160.00	Peak	H	-	-	-70.53	13.14	49.61	73.98	-24.37
16740.00	Peak	H	-	-	-72.75	20.11	54.36	68.20	-13.84

Table 7-55. Radiated Measurements SISO CORE 1

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 143 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11440.00	Average	H	-	-	-82.81	13.94	38.13	53.98	-15.85
11440.00	Peak	H	-	-	-71.51	13.94	49.43	73.98	-24.55
17139.00	Peak	H	-	-	-73.89	20.15	53.26	68.20	-14.94

Table 7-56. Radiated Measurements SISO CORE 1

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	Average	H	-	-	-82.94	14.38	38.44	53.98	-15.54
11490.00	Peak	H	-	-	-71.75	14.38	49.63	73.98	-24.35
17235.00	Peak	H	-	-	-72.36	20.19	54.83	68.20	-13.37

Table 7-57. Radiated Measurements SISO CORE 1

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 144 of 208

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	Average	H	-	-	-82.27	14.17	38.90	53.98	-15.08
11570.00	Peak	H	-	-	-70.40	14.17	50.77	73.98	-23.21
17355.00	Peak	H	-	-	-71.83	20.58	55.75	68.20	-12.45

Table 7-58. Radiated Measurements SISO CORE 1

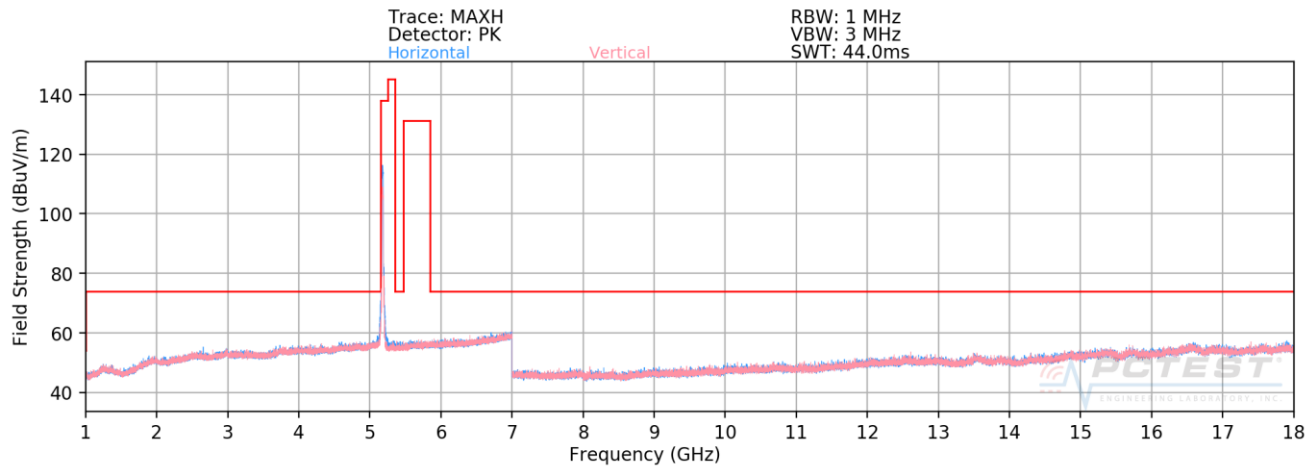
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11650.00	Average	H	-	-	-81.27	14.37	40.10	53.98	-13.88
11650.00	Peak	H	-	-	-70.48	14.37	50.89	73.98	-23.09
17475.00	Peak	H	-	-	-72.57	20.57	55.00	68.20	-13.20

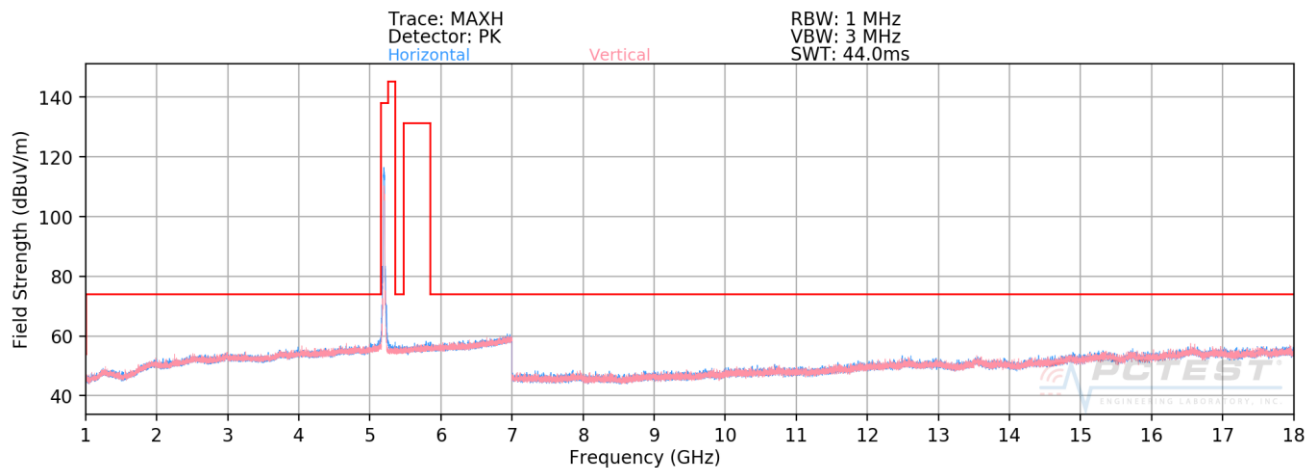
Table 7-59. Radiated Measurements SISO CORE 1

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 145 of 208

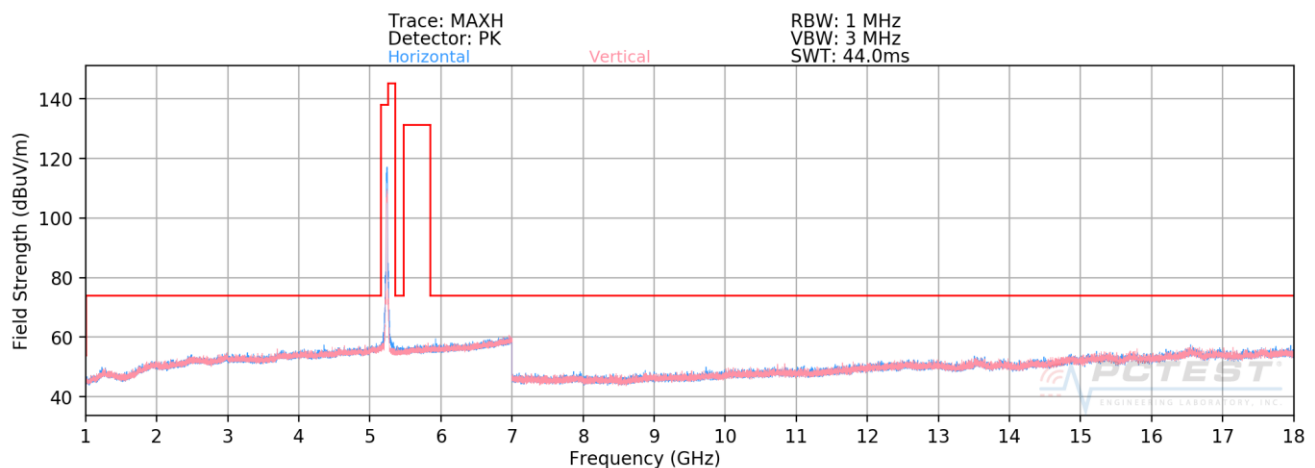
7.6.3 CDD/SDM Radiated Spurious Emission Measurements



Plot 7-193. Radiated Spurious Plot above 1GHz CDD (802.11n – U1 Ch. 36)



Plot 7-194. Radiated Spurious Plot above 1GHz CDD (802.11n – U1 Ch. 40)



Plot 7-195. Radiated Spurious Plot above 1GHz CDD (802.11n – U1 Ch. 48)

FCC ID: BCGA2198	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1901280004-09.BCG	Test Dates: 05/01/2019-08/08/2019	EUT Type: Tablet Device	Page 146 of 208