

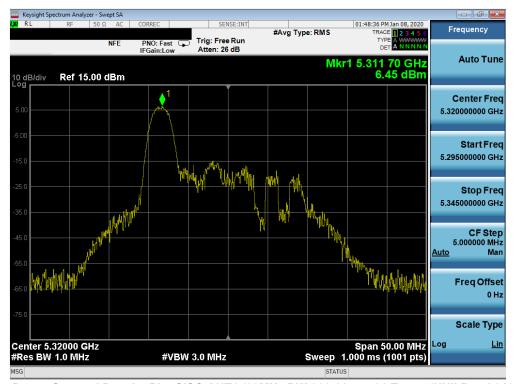
Plot 7-115. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



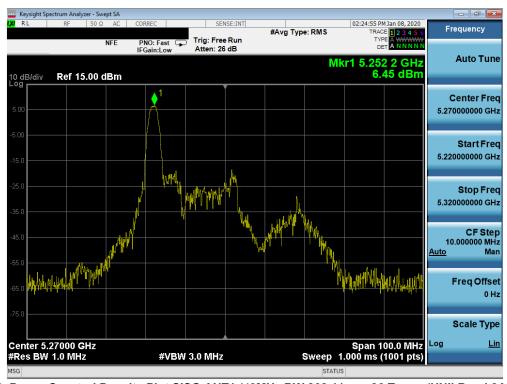
Plot 7-116. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-117. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



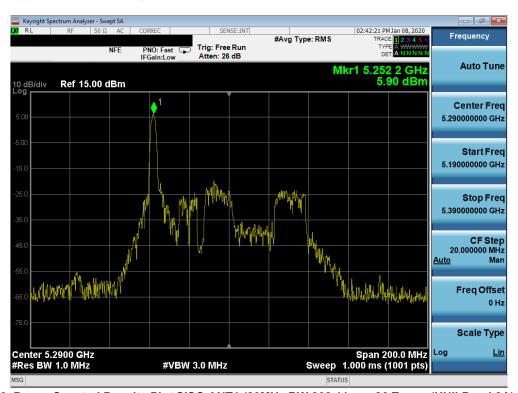
Plot 7-118. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 100 of 240
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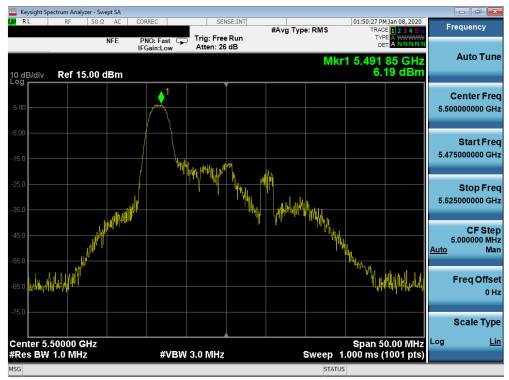
Plot 7-119. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



Plot 7-120. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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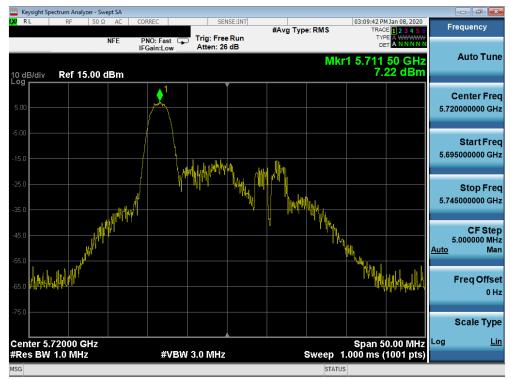
Plot 7-121. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-122. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-123. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



Plot 7-124. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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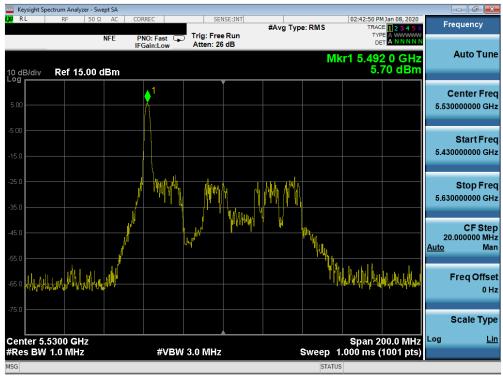
Plot 7-125. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



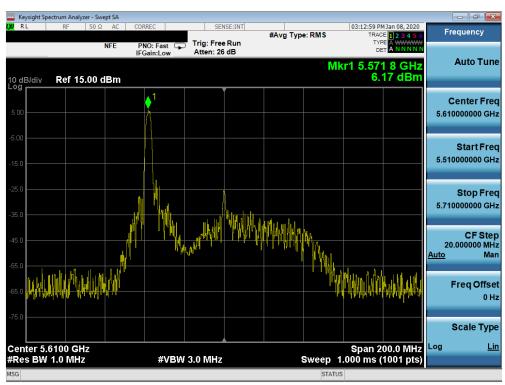
Plot 7-126. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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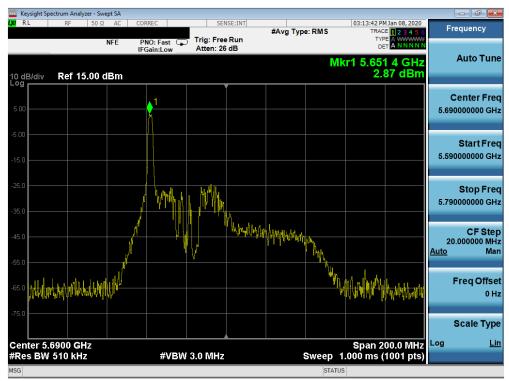
Plot 7-127. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-128. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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Plot 7-129. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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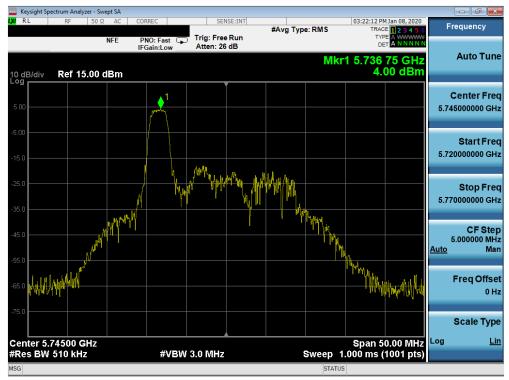


	Frequency [MHz]	Channel No.	802.11 M ode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	4.00	30.00	-26.00
	5785	157	ax (20MHz)	26T	MCS0	4.32	30.00	-25.68
5 pt	5825	165	ax (20MHz)	26T	MCS0	4.12	30.00	-25.88
Band	5755	151	ax (40MHz)	26T	MCS0	3.94	30.00	-26.06
	5795	159	ax (40MHz)	26T	MCS0	3.98	30.00	-26.02
	5775	155	ax (80MHz)	26T	MCS0	6.93	30.00	-23.07

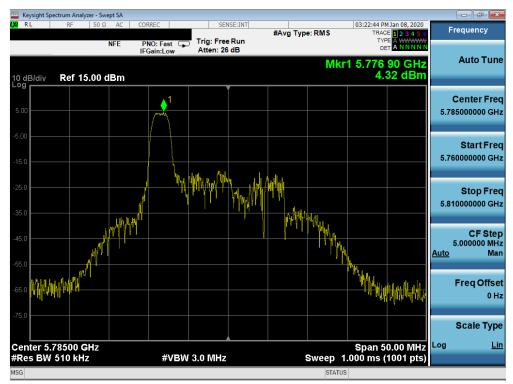
Table 7-56. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (26 Tones)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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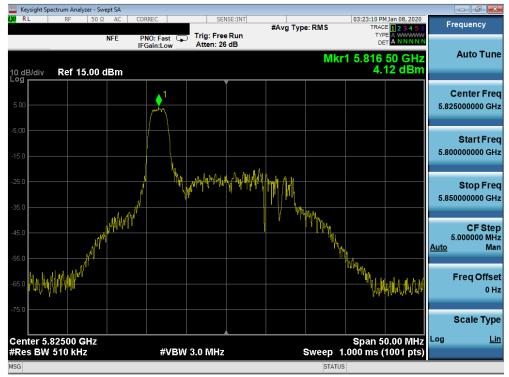
Plot 7-130. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



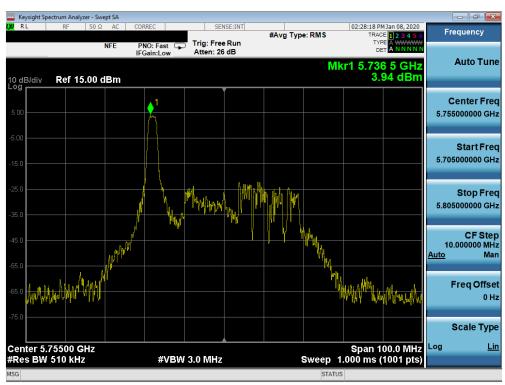
Plot 7-131. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: ZNFV600AM	@PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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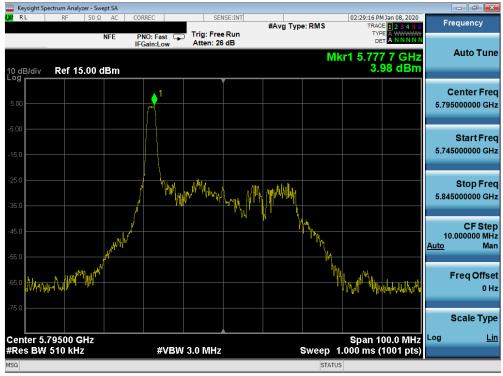
Plot 7-132. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



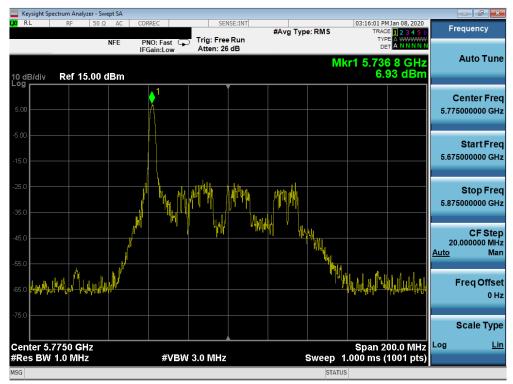
Plot 7-133. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-134. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-135. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

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SISO Antenna-1 Power Spectral Density Measurements (Full Tones)

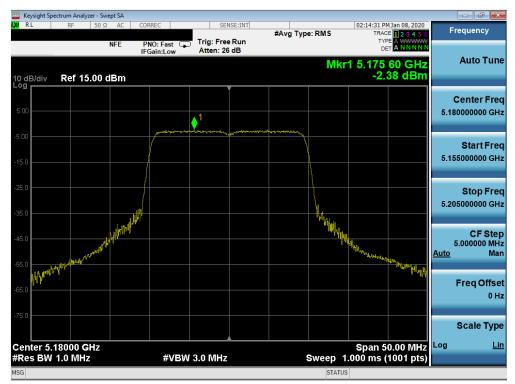
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	-2.38	11.0	-13.38
	5200	40	ax (20MHz)	242T	MCS0	-2.61	11.0	-13.61
Band 1	5240	48	ax (20MHz)	242T	MCS0	-2.41	11.0	-13.41
Bar	5190	38	ax (40MHz)	484T	MCS0	-5.29	11.0	-16.29
	5230	46	ax (40MHz)	484T	MCS0	-5.10	11.0	-16.10
	5210	42	ax (80MHz)	996T	MCS0	-10.08	11.0	-21.08
	5260	52	ax (20MHz)	242T	MCS0	-2.32	11.0	-13.32
	5280	56	ax (20MHz)	242T	MCS0	-2.41	11.0	-13.41
Band 2A	5320	64	ax (20MHz)	242T	MCS0	-2.64	11.0	-13.64
Ban	5270	54	ax (40MHz)	484T	MCS0	-5.14	11.0	-16.14
	5310	62	ax (40MHz)	484T	MCS0	-5.34	11.0	-16.34
	5290	58	ax (80MHz)	996T	MCS0	-10.31	11.0	-21.31
	5500	100	ax (20MHz)	242T	MCS0	-2.45	11.0	-13.45
	5600	120	ax (20MHz)	242T	MCS0	-2.30	11.0	-13.30
	5720	144	ax (20MHz)	242T	MCS0	-1.82	11.0	-12.82
ပ္က	5510	102	ax (40MHz)	484T	MCS0	-5.43	11.0	-16.43
Band 2C	5590	118	ax (40MHz)	484T	MCS0	-5.71	11.0	-16.71
ă	5710	142	ax (40MHz)	484T	MCS0	-4.84	11.0	-15.84
	5530	106	ax (80MHz)	996T	MCS0	-9.70	11.0	-20.70
	5610	122	ax (80MHz)	996T	MCS0	-10.64	11.0	-21.64
	5690	138	ax (80MHz)	996T	MCS0	-12.77	11.0	-23.77

Table 7-57. Bands 1, 2A, 2C Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

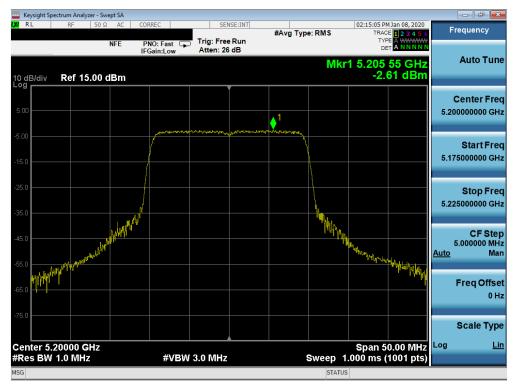
FCC ID: ZNFV600AM	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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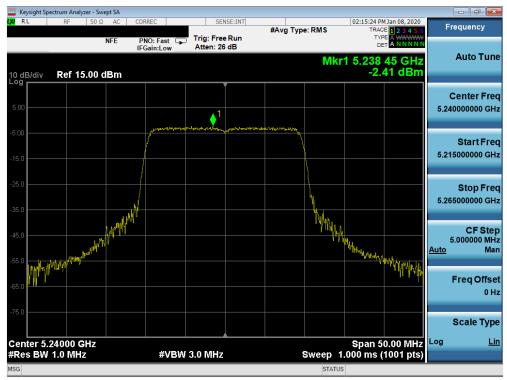
Plot 7-136. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



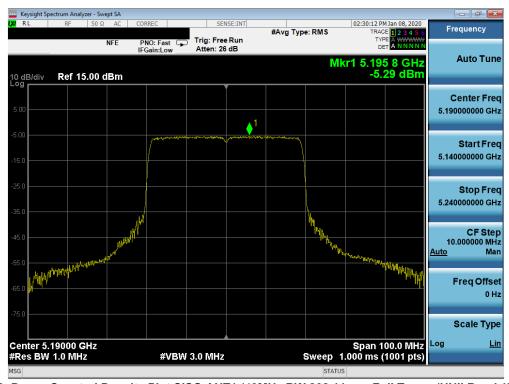
Plot 7-137. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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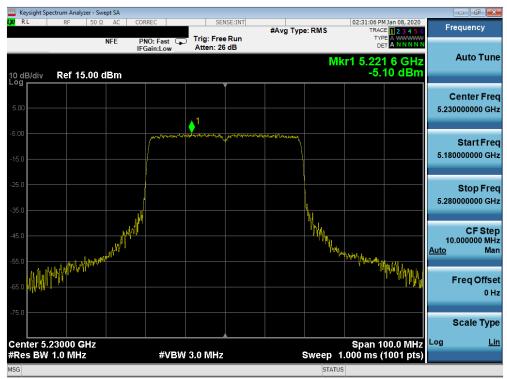
Plot 7-138. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



Plot 7-139. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

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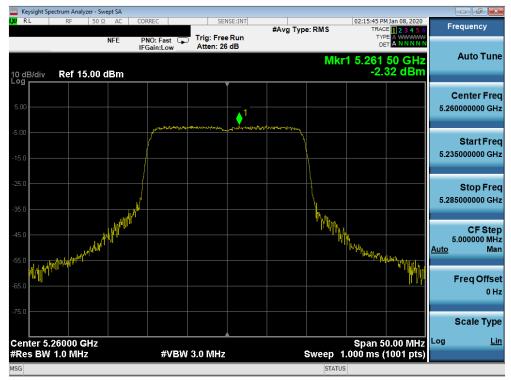
Plot 7-140. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



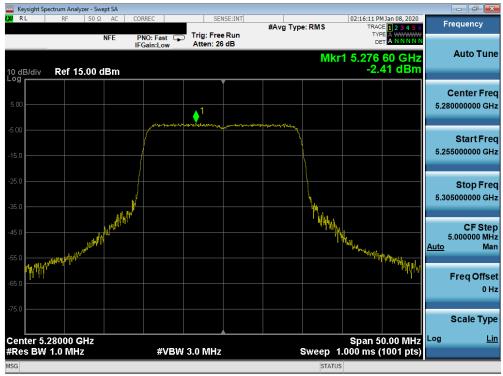
Plot 7-141. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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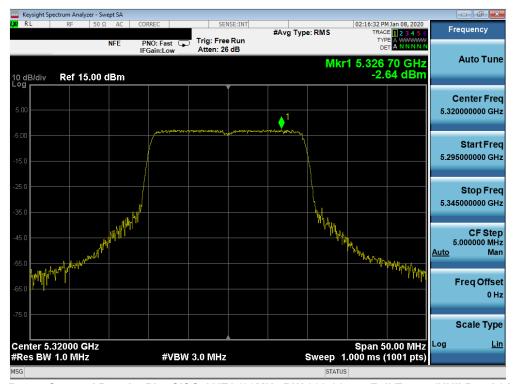
Plot 7-142. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



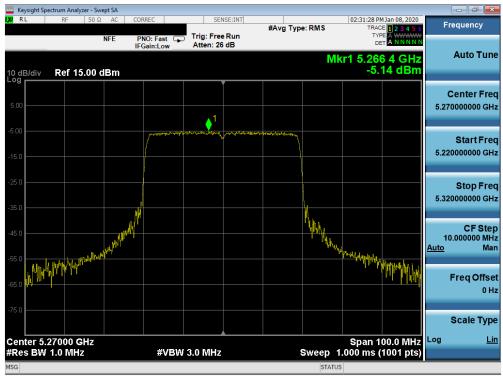
Plot 7-143. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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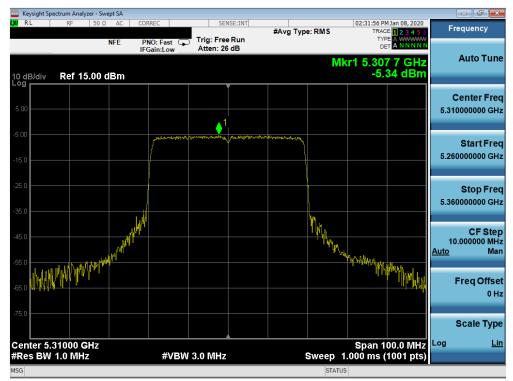
Plot 7-144. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



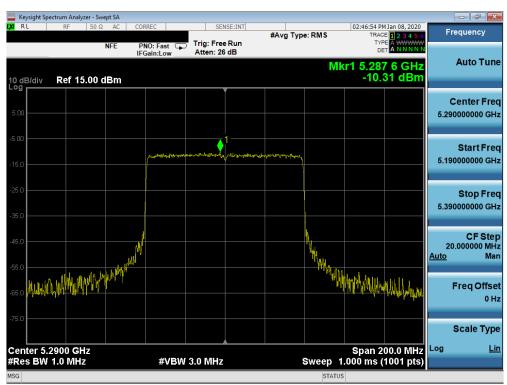
Plot 7-145. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	🕒 LG	Approved by: Quality Manager
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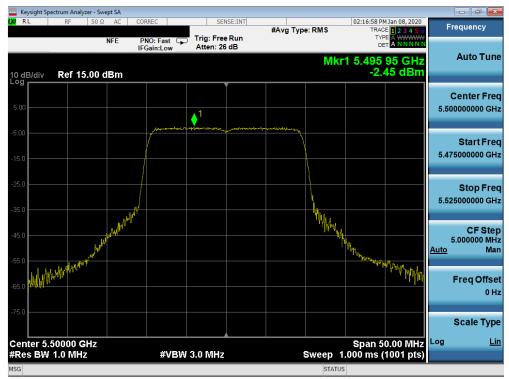
Plot 7-146. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



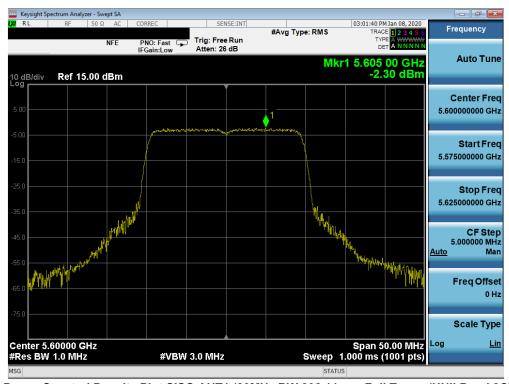
Plot 7-147. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

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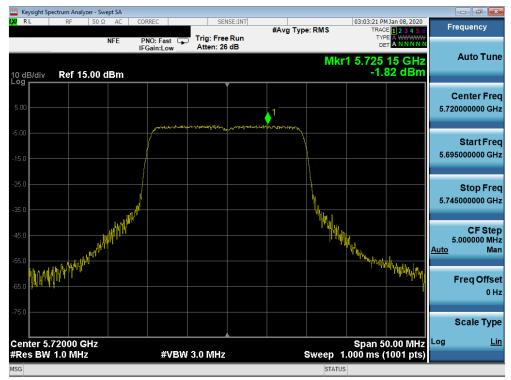
Plot 7-148. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)



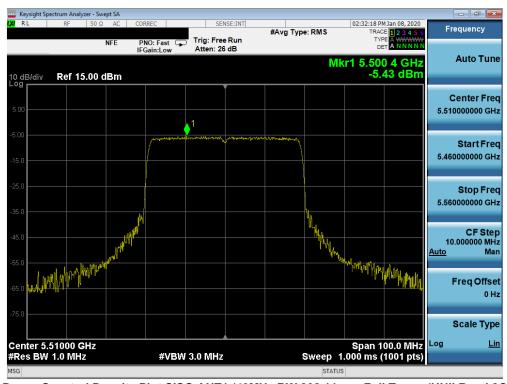
Plot 7-149. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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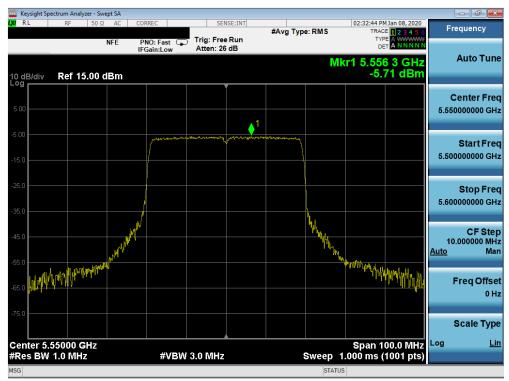
Plot 7-150. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



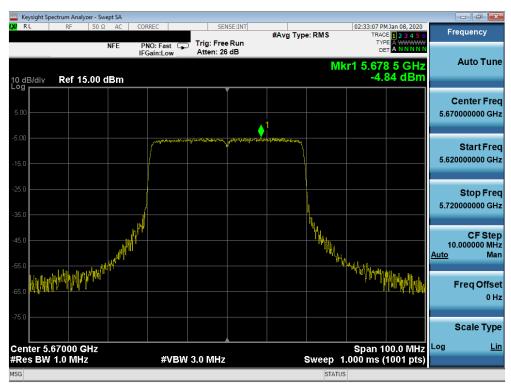
Plot 7-151. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

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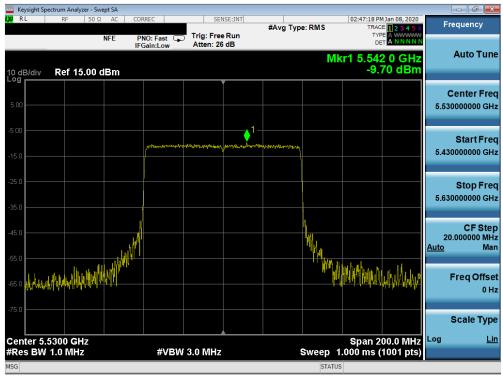
Plot 7-152. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



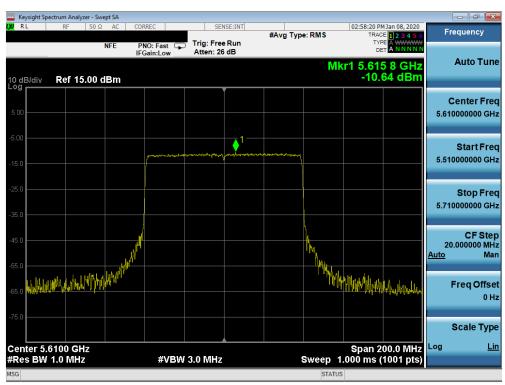
Plot 7-153. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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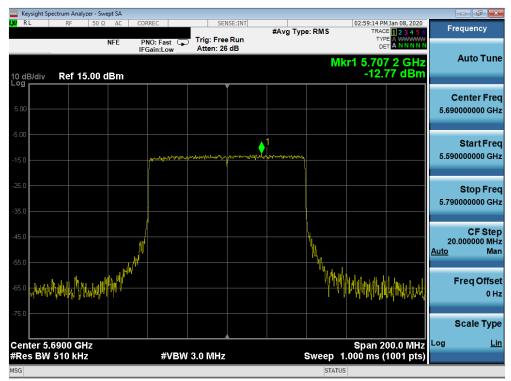
Plot 7-154. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



Plot 7-155. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

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Plot 7-156. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)

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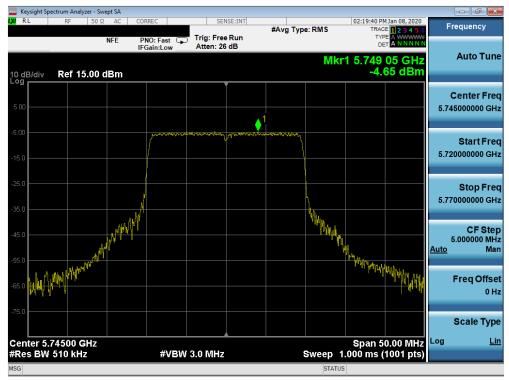


	Frequency [MHz]	Channel No.	802.11 M ode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	242T	MCS0	-4.65	30.00	-34.65
	5785	157	ax (20MHz)	242T	MCS0	-4.60	30.00	-34.60
p 3	5825	165	ax (20MHz)	242T	MCS0	-4.88	30.00	-34.88
Band	5755	151	ax (40MHz)	484T	MCS0	-7.68	30.00	-37.68
	5795	159	ax (40MHz)	484T	MCS0	-7.29	30.00	-37.29
	5775	155	ax (80MHz)	996T	MCS0	-10.31	30.00	-40.31

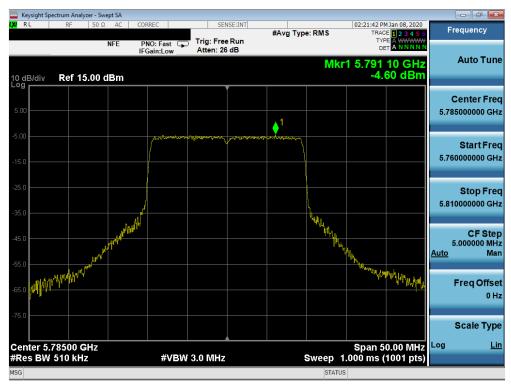
Table 7-58. Band 3 Conducted Power Spectral Density Measurements SISO ANT1 (Full Tones)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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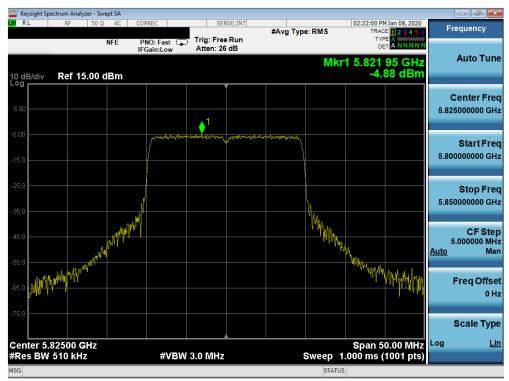
Plot 7-157. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)



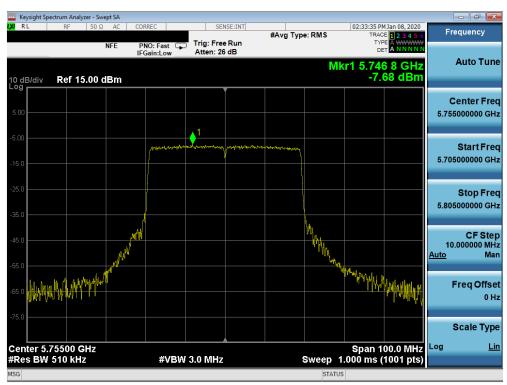
Plot 7-158. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Daga 122 of 240
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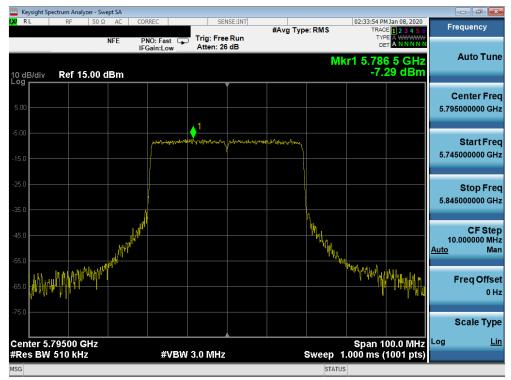
Plot 7-159. Power Spectral Density Plot SISO ANT1 (20 MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)



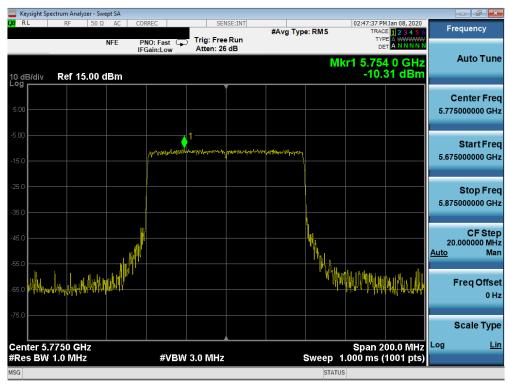
Plot 7-160. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 151)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	🗓 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 122 of 240
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Plot 7-161. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)



Plot 7-162. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 155)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	⊕ LG	Approved by: Quality Manager
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SISO Antenna-2 Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	6.17	11.0	-4.83
_	5200	40	ax (20MHz)	26T	MCS0	6.43	11.0	-4.57
1 pt	5240	48	ax (20MHz)	26T	MCS0	6.26	11.0	-4.74
Band	5190	38	ax (40MHz)	26T	MCS0	6.28	11.0	-4.72
_	5230	46	ax (40MHz)	26T	MCS0	6.98	11.0	-4.02
	5210	42	ax (80MHz)	26T	MCS0	5.68	11.0	-5.32
	5260	52	ax (20MHz)	26T	MCS0	6.82	11.0	-4.18
∢	5280	56	ax (20MHz)	26T	MCS0	6.71	11.0	-4.29
Band 2A	5320	64	ax (20MHz)	26T	MCS0	6.79	11.0	-4.21
3an	5270	54	ax (40MHz)	26T	MCS0	6.54	11.0	-4.46
ш	5310	62	ax (40MHz)	26T	MCS0	6.82	11.0	-4.18
	5290	58	ax (80MHz)	26T	MCS0	6.75	11.0	-4.25
	5500	100	ax (20MHz)	26T	MCS0	7.11	11.0	-3.89
	5600	120	ax (20MHz)	26T	MCS0	6.69	11.0	-4.31
	5720	144	ax (20MHz)	26T	MCS0	7.60	11.0	-3.40
2C	5510	102	ax (40MHz)	26T	MCS0	6.92	11.0	-4.08
Band 2C	5590	118	ax (40MHz)	26T	MCS0	7.08	11.0	-3.92
Ba	5710	142	ax (40MHz)	26T	MCS0	7.26	11.0	-3.74
	5530	106	ax (80MHz)	26T	MCS0	6.33	11.0	-4.67
	5610	122	ax (80MHz)	26T	MCS0	6.26	11.0	-4.74
	5690	138	ax (80MHz)	26T	MCS0	3.48	11.0	-7.52

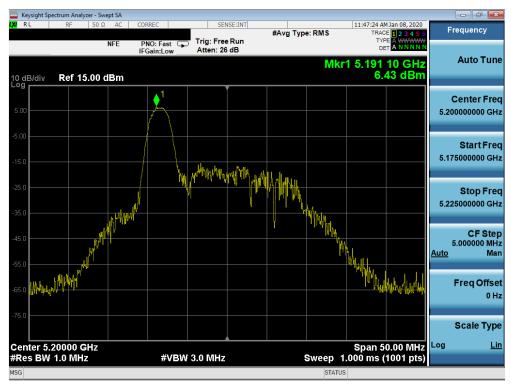
Table 7-59. Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

Toot Panert S/Nr. Toot Pater: FUT Type:	FCC ID: ZNFV600AM	NFV600AM PCTEST	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
Test Report 3/N. Test Dates. EUT Type.	Test Report S/N:	ort S/N: Test Dates:	EUT Type:	Dogo 125 of 240
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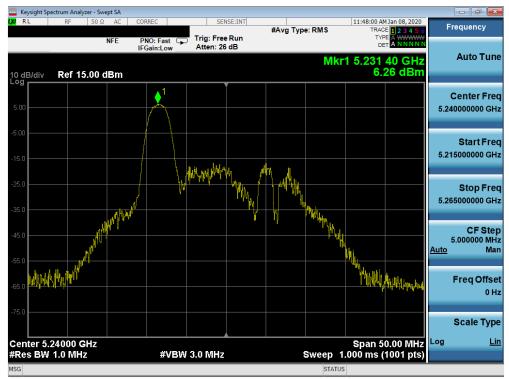
Plot 7-163. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



Plot 7-164. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

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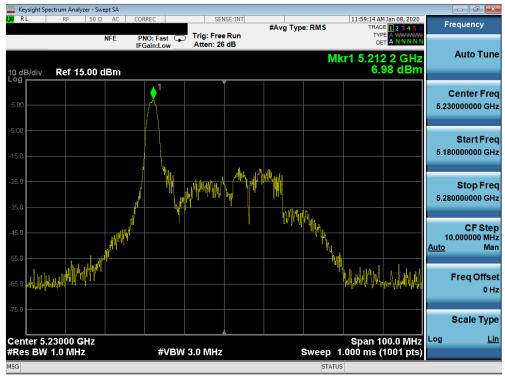
Plot 7-165. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



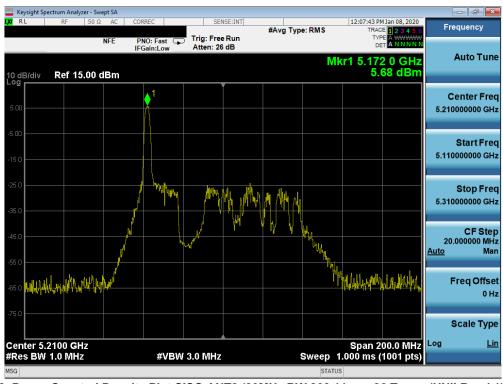
Plot 7-166. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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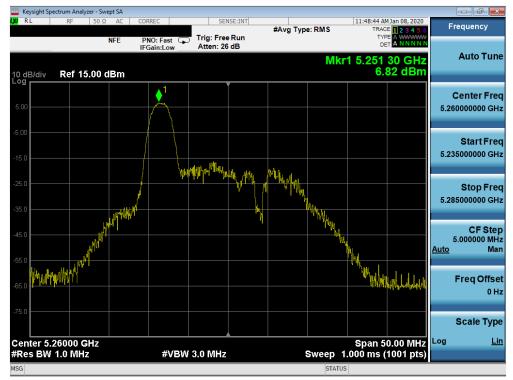
Plot 7-167. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



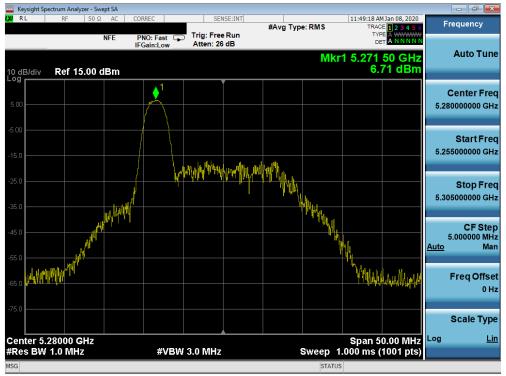
Plot 7-168. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 120 of 240
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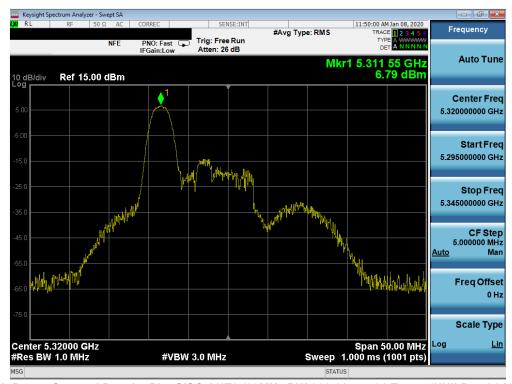
Plot 7-169. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



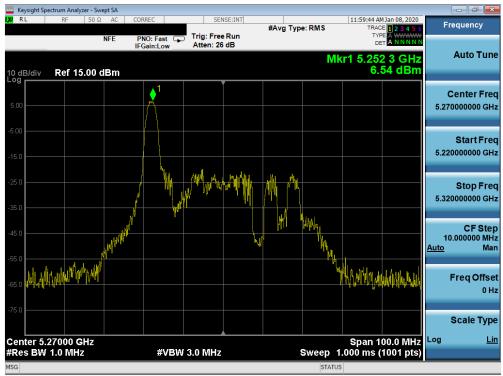
Plot 7-170. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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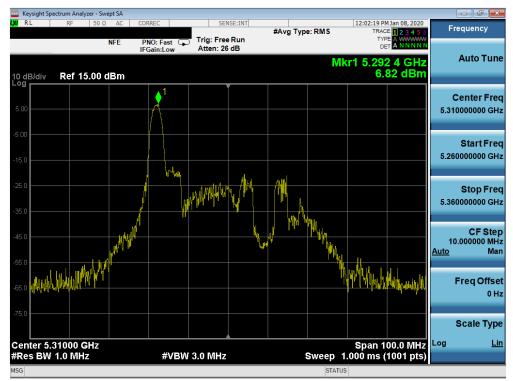
Plot 7-171. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



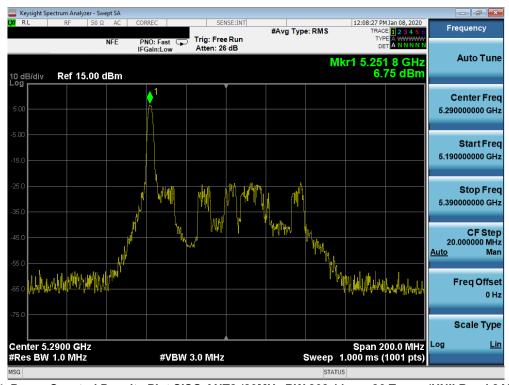
Plot 7-172. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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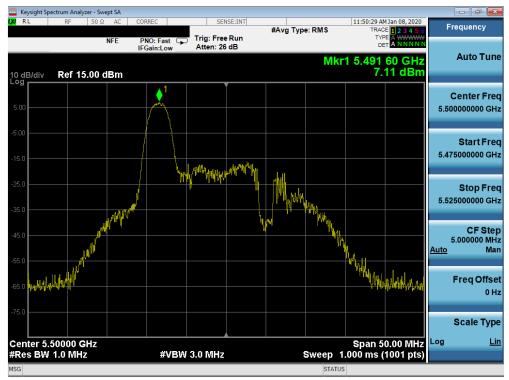
Plot 7-173. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



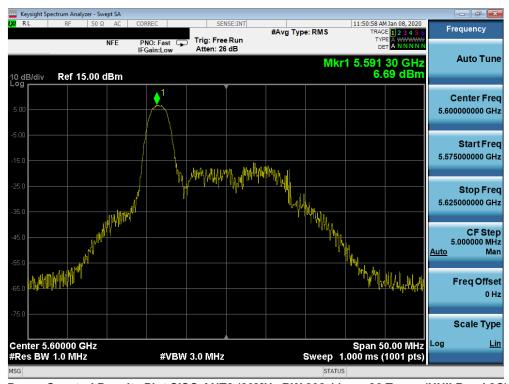
Plot 7-174. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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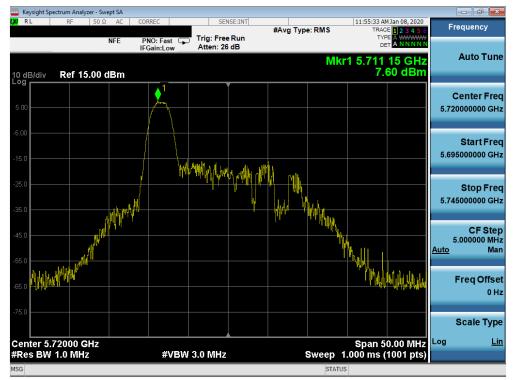
Plot 7-175. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



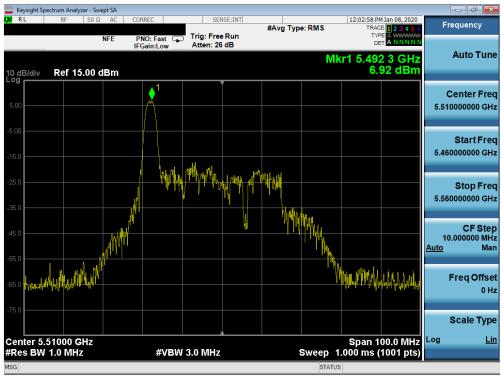
Plot 7-176. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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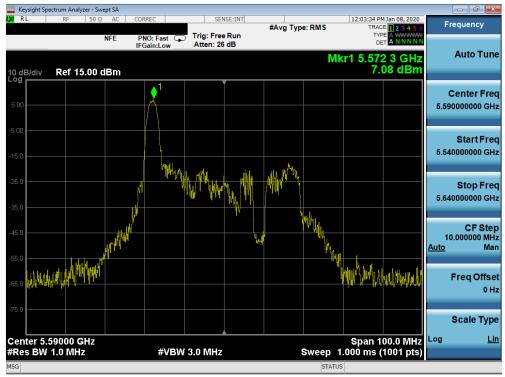
Plot 7-177. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



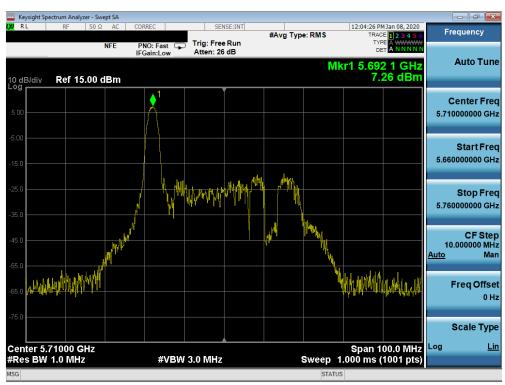
Plot 7-178. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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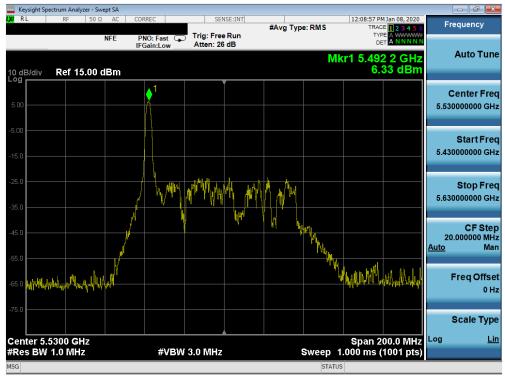
Plot 7-179. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



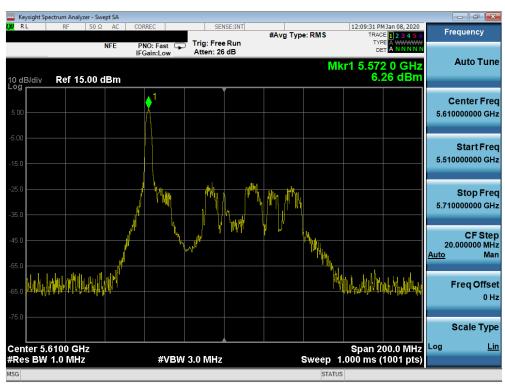
Plot 7-180. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 142)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	⊕ LG	Approved by: Quality Manager
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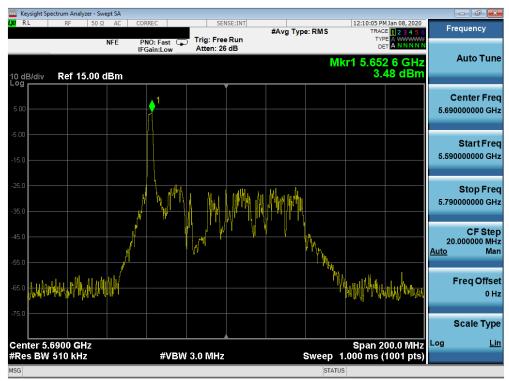
Plot 7-181. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-182. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 122)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-183. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

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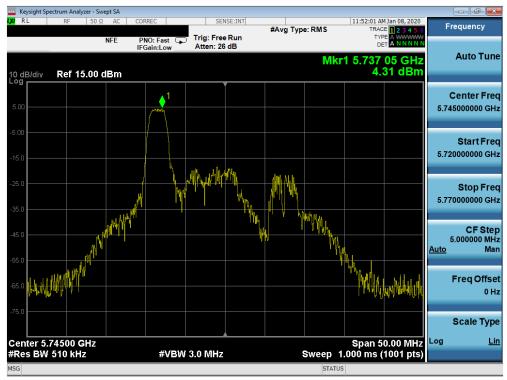


	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	4.31	30.00	-25.69
က	5785	157	ax (20MHz)	26T	MCS0	4.57	30.00	-25.43
	5825	165	ax (20MHz)	26T	MCS0	4.50	30.00	-25.50
Band	5755	151	ax (40MHz)	26T	MCS0	4.54	30.00	-25.46
	5795	159	ax (40MHz)	26T	MCS0	4.70	30.00	-25.30
	5775	155	ax (80MHz)	26T	MCS0	6.74	30.00	-23.26

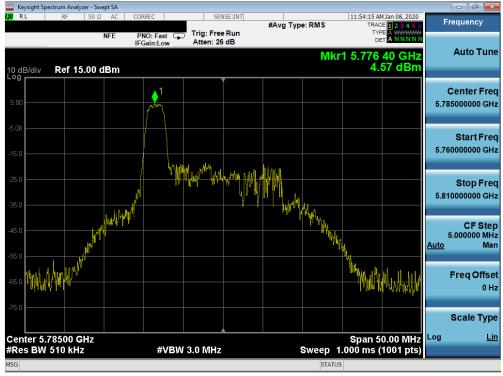
Table 7-60. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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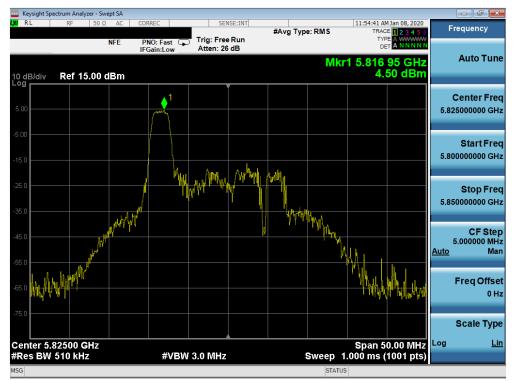
Plot 7-184. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



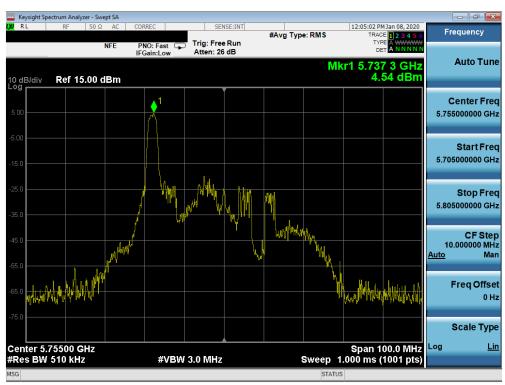
Plot 7-185. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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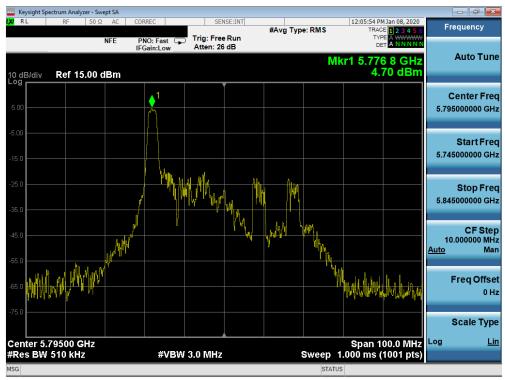
Plot 7-186. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



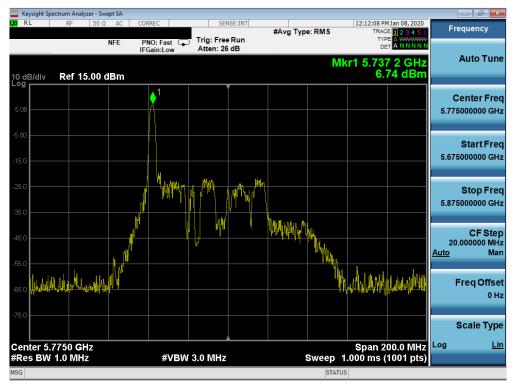
Plot 7-187. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-188. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-189. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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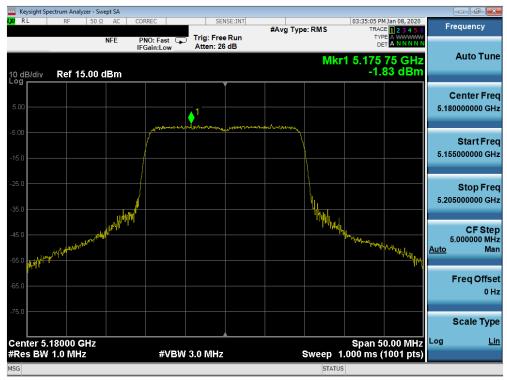
SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	-1.83	11.0	-12.83
	5200	40	ax (20MHz)	242T	MCS0	-2.20	11.0	-13.20
Band 1	5240	48	ax (20MHz)	242T	MCS0	-2.05	11.0	-13.05
Bar	5190	38	ax (40MHz)	484T	MCS0	-4.93	11.0	-15.93
	5230	46	ax (40MHz)	484T	MCS0	-4.67	11.0	-15.67
	5210	42	ax (80MHz)	996T	MCS0	-9.32	11.0	-20.32
	5260	52	ax (20MHz)	242T	MCS0	-1.68	11.0	-12.68
	5280	56	ax (20MHz)	242T	MCS0	-1.74	11.0	-12.74
Band 2A	5320	64	ax (20MHz)	242T	MCS0	-1.58	11.0	-12.58
Ban	5270	54	ax (40MHz)	484T	MCS0	-4.70	11.0	-15.70
	5310	62	ax (40MHz)	484T	MCS0	-4.73	11.0	-15.73
	5290	58	ax (80MHz)	996T	MCS0	-9.40	11.0	-20.40
	5500	100	ax (20MHz)	242T	MCS0	-1.78	11.0	-12.78
	5600	120	ax (20MHz)	242T	MCS0	-1.67	11.0	-12.67
	5720	144	ax (20MHz)	242T	MCS0	-1.40	11.0	-12.40
ပ္လ	5510	102	ax (40MHz)	484T	MCS0	-4.67	11.0	-15.67
Band 2C	5590	118	ax (40MHz)	484T	MCS0	-4.37	11.0	-15.37
ä	5710	142	ax (40MHz)	484T	MCS0	-3.80	11.0	-14.80
	5530	106	ax (80MHz)	996T	MCS0	-10.63	11.0	-21.63
	5610	122	ax (80MHz)	996T	MCS0	-9.71	11.0	-20.71
	5690	138	ax (80MHz)	996T	MCS0	-12.60	11.0	-23.60

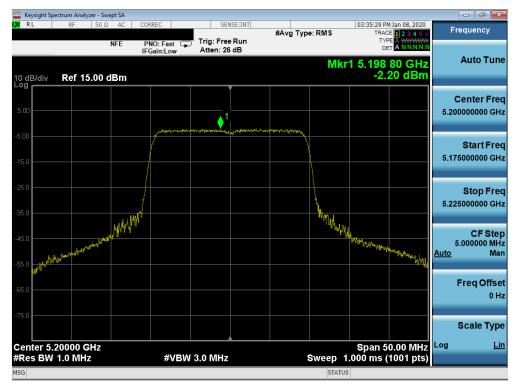
Table 7-61. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

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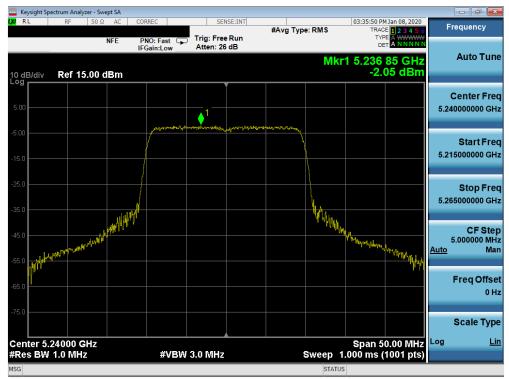
Plot 7-190. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 36)



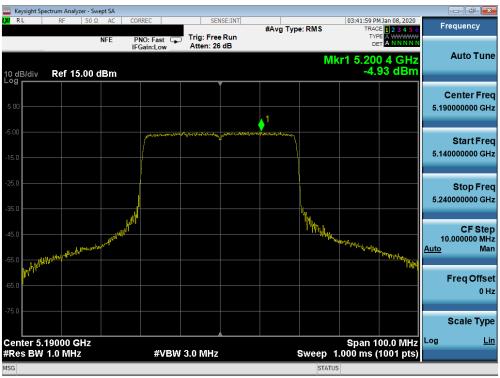
Plot 7-191. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 40)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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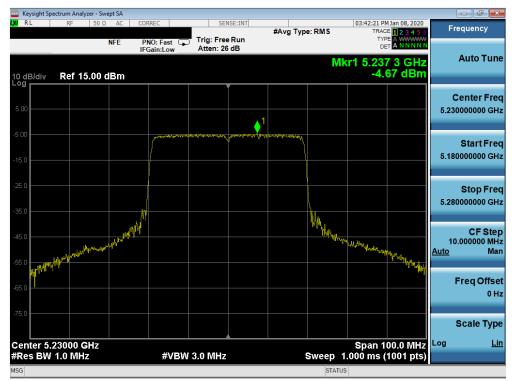
Plot 7-192. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 48)



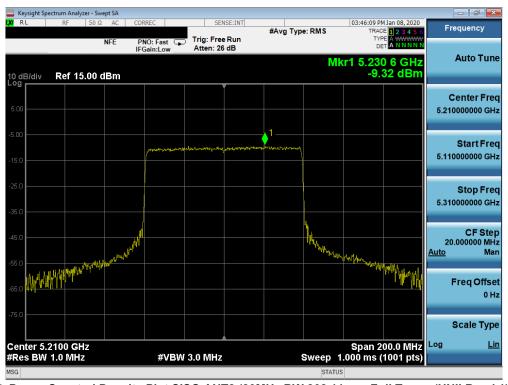
Plot 7-193. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 38)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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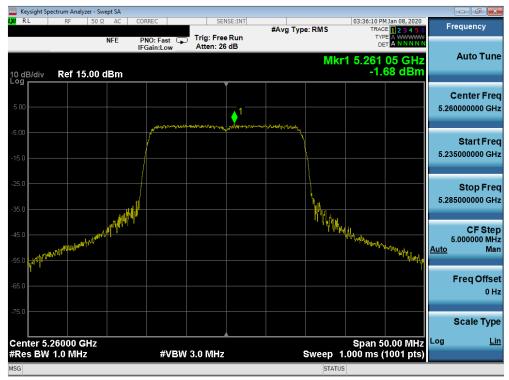
Plot 7-194. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 46)



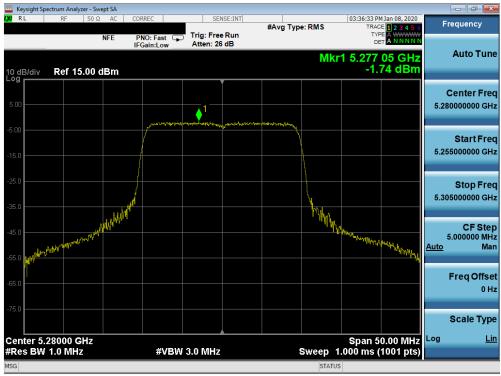
Plot 7-195. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 1) - Ch. 42)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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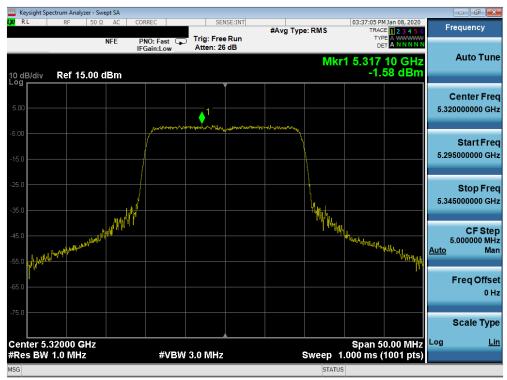
Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 52)



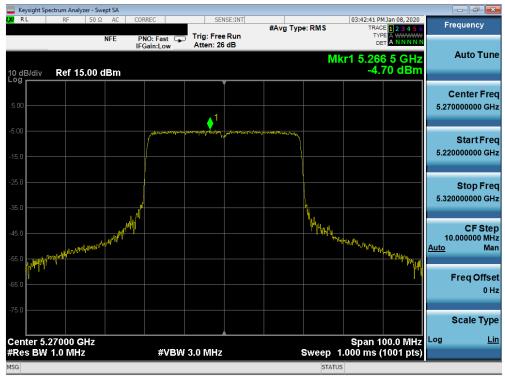
Plot 7-197. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 56)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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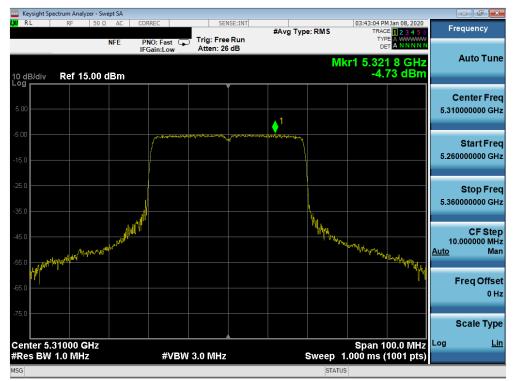
Plot 7-198. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 64)



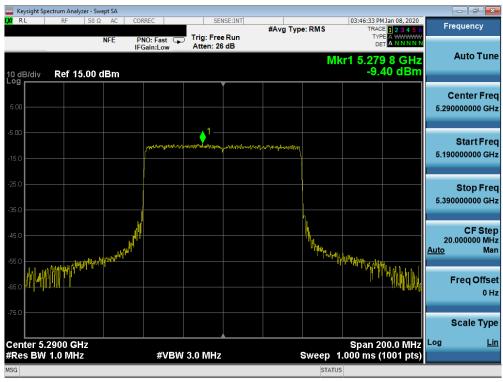
Plot 7-199. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 54)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	⊕ LG	Approved by: Quality Manager
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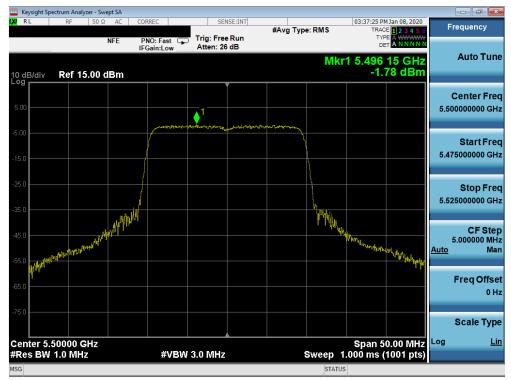
Plot 7-200. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 62)



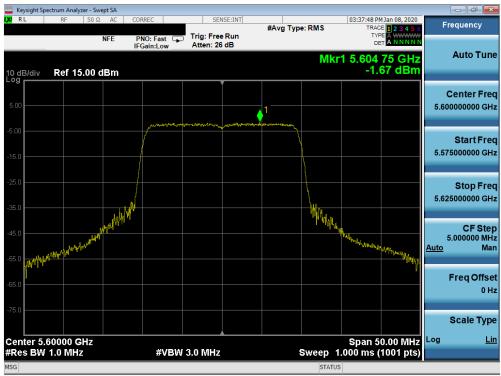
Plot 7-201. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2A) - Ch. 58)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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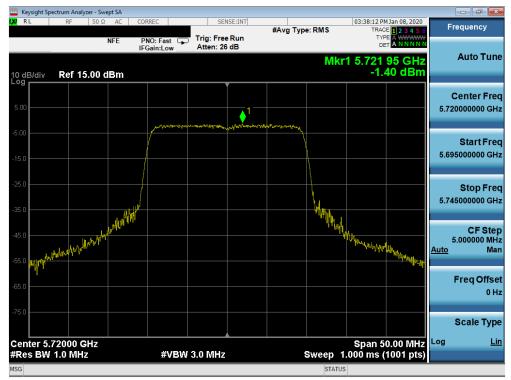
Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 100)



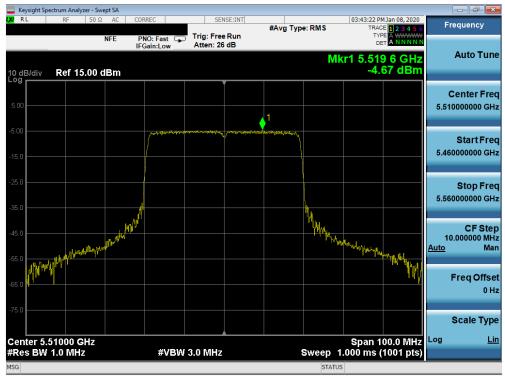
Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 120)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION) LG	Approved by: Quality Manager
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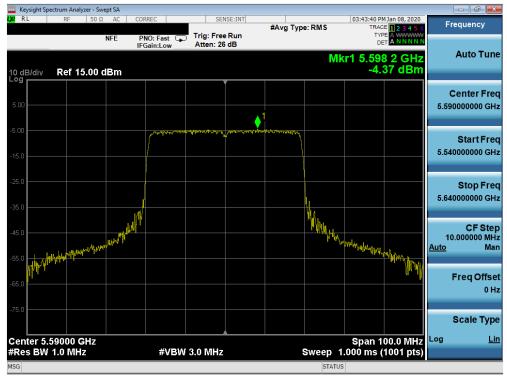
Plot 7-204. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 144)



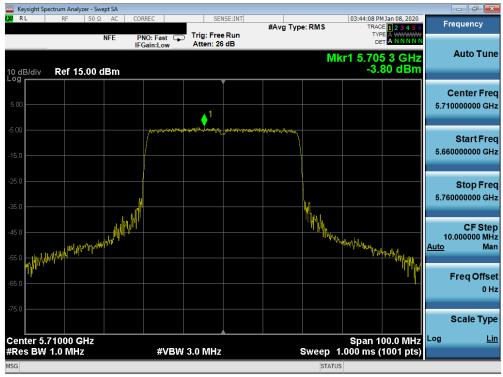
Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 102)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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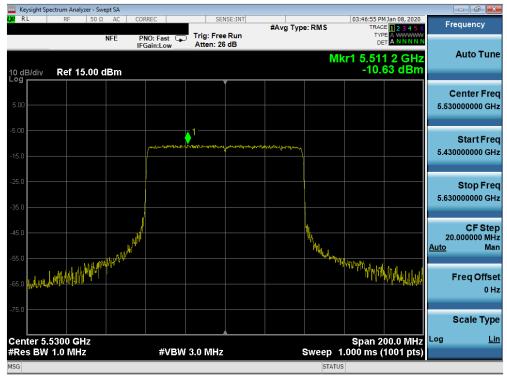
Plot 7-206. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 118)



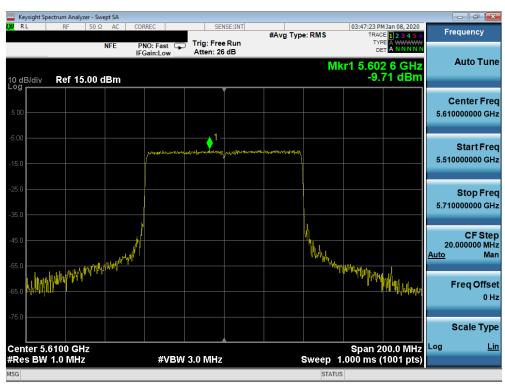
Plot 7-207. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 142)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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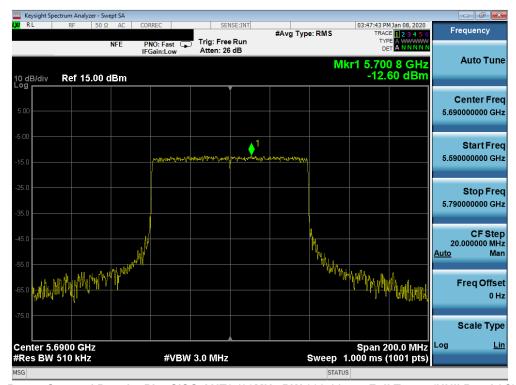
Plot 7-208. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 106)



Plot 7-209. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 122)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Plot 7-210. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 2C) - Ch. 138)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	G	Approved by: Quality Manager
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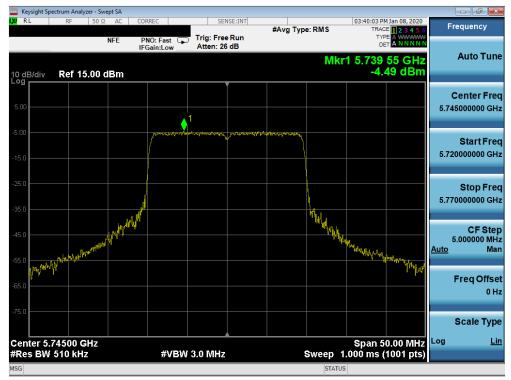


	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	242T	MCS0	-4.49	30.00	-34.49
	5785	157	ax (20MHz)	242T	MCS0	-4.60	30.00	-34.60
5 pc	5825	165	ax (20MHz)	242T	MCS0	-4.45	30.00	-34.45
Band	5755	151	ax (40MHz)	484T	MCS0	-7.48	30.00	-37.48
	5795	159	ax (40MHz)	484T	MCS0	-7.31	30.00	-37.31
	5775	155	ax (80MHz)	996T	MCS0	-9.18	30.00	-39.18

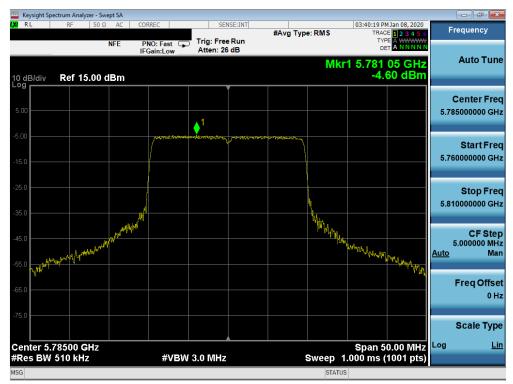
Table 7-62. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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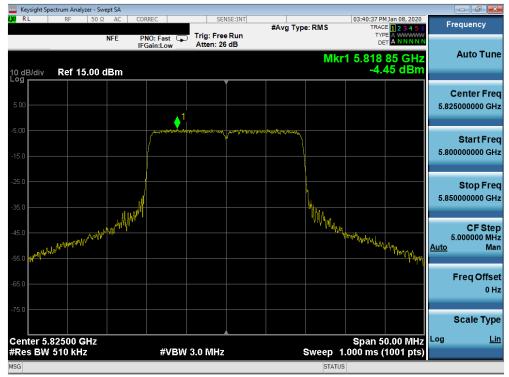
Plot 7-211. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 149)



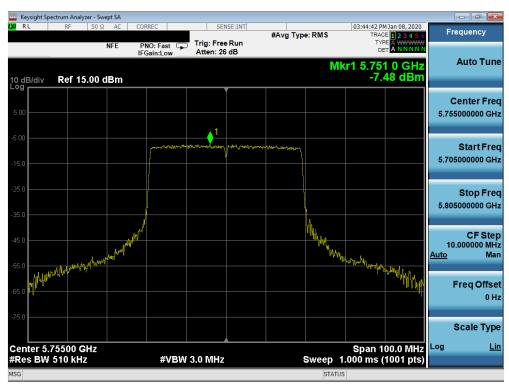
Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 157)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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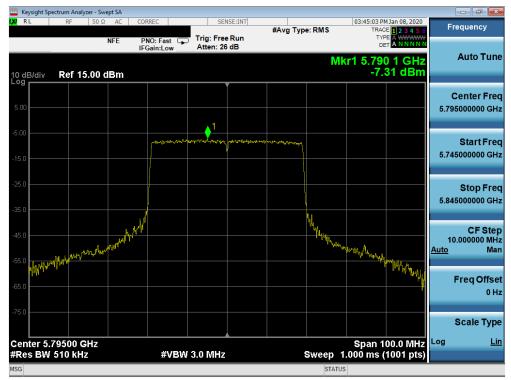
Plot 7-213. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 165)



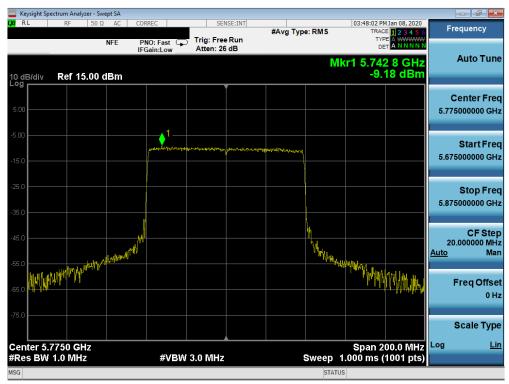
Plot 7-214. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 151)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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Plot 7-215. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 159)



Plot 7-216. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax - Full Tones (UNII Band 3) - Ch. 155)

FCC ID: ZNFV600AM	<u>@PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	⊕ LG	Approved by: Quality Manager
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Summed MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	26T	MCS0	6.59	6.17	9.40	11.00	-1.60
	5200	40	ax (20MHz)	26T	MCS0	6.15	6.43	9.30	11.00	-1.70
<u>5</u>	5240	48	ax (20MHz)	26T	MCS0	6.31	6.26	9.30	11.00	-1.70
Band	5190	38	ax (40MHz)	26T	MCS0	6.08	6.28	9.19	11.00	-1.81
	5230	46	ax (40MHz)	26T	MCS0	6.28	6.98	9.65	11.00	-1.35
	5210	42	ax (80MHz)	26T	MCS0	5.67	5.68	8.69	11.00	-2.31
	5260	52	ax (20MHz)	26T	MCS0	6.38	6.82	9.62	11.00	-1.38
∢	5280	56	ax (20MHz)	26T	MCS0	6.61	6.71	9.67	11.00	-1.33
Band 2A	5320	64	ax (20MHz)	26T	MCS0	6.45	6.79	9.63	11.00	-1.37
gu	5270	54	ax (40MHz)	26T	MCS0	6.45	6.54	9.51	11.00	-1.49
ш	5310	62	ax (40MHz)	26T	MCS0	5.95	6.82	9.42	11.00	-1.58
	5290	58	ax (80MHz)	26T	MCS0	5.90	6.75	9.36	11.00	-1.64
	5500	100	ax (20MHz)	26T	MCS0	6.19	7.11	9.68	11.00	-1.32
	5600	120	ax (20MHz)	26T	MCS0	6.27	6.69	9.50	11.00	-1.50
	5720	144	ax (20MHz)	26T	MCS0	7.22	7.60	10.42	11.00	-0.58
22	5510	102	ax (40MHz)	26T	MCS0	6.35	6.92	9.65	11.00	-1.35
Band	5590	118	ax (40MHz)	26T	MCS0	5.73	7.08	9.47	11.00	-1.53
Ва	5710	142	ax (40MHz)	26T	MCS0	6.45	7.26	9.88	11.00	-1.12
	5530	106	ax (80MHz)	26T	MCS0	5.70	6.33	9.04	11.00	-1.96
	5610	122	ax (80MHz)	26T	MCS0	6.17	6.26	9.23	11.00	-1.77
	5690	138	ax (80MHz)	26T	MCS0	2.87	3.48	6.20	11.00	-4.80

Table 7-63. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Permissible	Margin [dB]
	5745	149	ax (20MHz)	26T	MCS0	4.00	4.31	7.17	30.00	-22.83
~~	5785	157	ax (20MHz)	26T	MCS0	4.32	4.57	7.46	30.00	-22.54
5 pc	5825	165	ax (20MHz)	26T	MCS0	4.12	4.50	7.32	30.00	-22.68
Band	5755	151	ax (40MHz)	26T	MCS0	3.94	4.54	7.26	30.00	-22.74
	5795	159	ax (40MHz)	26T	MCS0	3.98	4.70	7.37	30.00	-22.63
	5775	155	ax (80MHz)	26T	MCS0	6.93	6.74	9.85	30.00	-20.15

Table 7-64. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: ZNFV600AM	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	(LG	Approved by: Quality Manager
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	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
	5180	36	ax (20MHz)	242T	MCS0	-2.38	-1.83	0.91	11.00	-10.09
	5200	40	ax (20MHz)	242T	MCS0	-2.61	-2.20	0.61	11.00	-10.39
Band 1	5240	48	ax (20MHz)	242T	MCS0	-2.41	-2.05	0.78	11.00	-10.22
Bar	5190	38	ax (40MHz)	484T	MCS0	-5.29	-4.93	-2.10	11.00	-13.10
	5230	46	ax (40MHz)	484T	MCS0	-5.10	-4.67	-1.87	11.00	-12.87
	5210	42	ax (80MHz)	996T	MCS0	-10.08	-9.32	-6.67	11.00	-17.67
	5260	52	ax (20MHz)	242T	MCS0	-2.32	-1.68	1.02	11.00	-9.98
	5280	56	ax (20MHz)	242T	MCS0	-2.41	-1.74	0.95	11.00	-10.05
Band 2A	5320	64	ax (20MHz)	242T	MCS0	-2.64	-1.58	0.93	11.00	-10.07
Banc	5270	54	ax (40MHz)	484T	MCS0	-5.14	-4.70	-1.90	11.00	-12.90
	5310	62	ax (40MHz)	484T	MCS0	-5.34	-4.73	-2.01	11.00	-13.01
	5290	58	ax (80MHz)	996T	MCS0	-10.31	-9.40	-6.82	11.00	-17.82
	5500	100	ax (20MHz)	242T	MCS0	-2.45	-1.78	0.91	11.00	-10.09
	5600	120	ax (20MHz)	242T	MCS0	-2.30	-1.67	1.04	11.00	-9.96
	5720	144	ax (20MHz)	242T	MCS0	-1.82	-1.40	1.41	11.00	-9.59
ပ္လ	5510	102	ax (40MHz)	484T	MCS0	-5.43	-4.67	-2.02	11.00	-13.02
Band 2C	5590	118	ax (40MHz)	484T	MCS0	-5.71	-4.37	-1.98	11.00	-12.98
B	5710	142	ax (40MHz)	484T	MCS0	-4.84	-3.80	-1.28	11.00	-12.28
	5530	106	ax (80MHz)	996T	MCS0	-9.70	-10.63	-7.13	11.00	-18.13
	5610	122	ax (80MHz)	996T	MCS0	-10.64	-9.71	-7.14	11.00	-18.14
	5690	138	ax (80MHz)	996T	MCS0	-12.77	-12.60	-9.67	11.00	-20.67

Table 7-65. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
	5745	149	ax (20MHz)	242T	MCS0	-4.65	-4.49	-1.56	30.00	-31.56
	5785	157	ax (20MHz)	242T	MCS0	-4.60	-4.60	-1.59	30.00	-31.59
წ ე	5825	165	ax (20MHz)	242T	MCS0	-4.88	-4.45	-1.65	30.00	-31.65
Band	5755	151	ax (40MHz)	484T	MCS0	-7.68	-7.48	-4.57	30.00	-34.57
	5795	159	ax (40MHz)	484T	MCS0	-7.29	-7.31	-4.29	30.00	-34.29
	5775	155	ax (80MHz)	996T	MCS0	-10.31	-9.18	-6.70	30.00	-36.70

Table 7-66. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)

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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 Antenna 1 and Antenna 2 were first measured separately with reduced Antenna 1 and Antenna 2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

Assuming the antenna gain is -8.61 dBi for Antenna-1 and -7.68 dBi for Antenna-2.

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

= $10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] dBi$
= $(-5.12) dBi$

Sample MIMO Calculation:

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{mW} = 9.09 \text{ dBm}$$

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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. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), 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 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-67 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-67. 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 x 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
- Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = 120kHz
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Test Setup

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

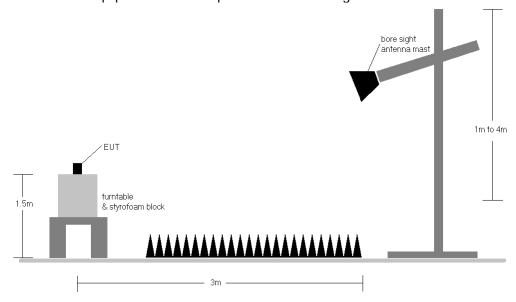


Figure 7-5. Test Instrument & Measurement Setup

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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 7-30.
- 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 7-30. 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 dB μ V/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 68.2dB μ V/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. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBuV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- O AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- \circ Margin [dB] = Field Strength Level [dB μ V/m] Limit [dB μ V/m]

Radiated Band Edge Measurement Offset

The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious
 Emission Measurements – Above 1GHz was calculated using the formula:

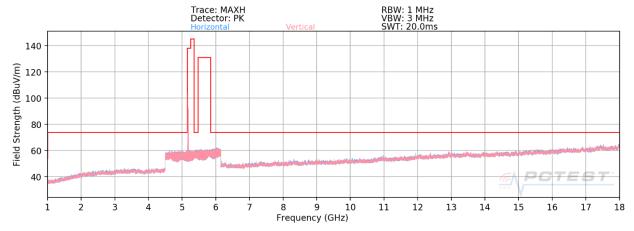
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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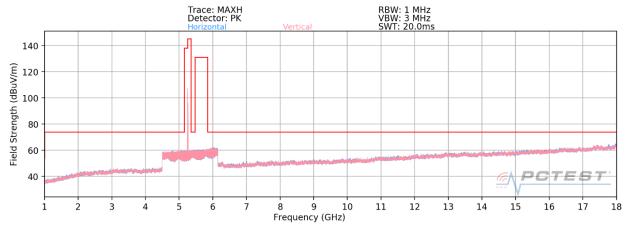


7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

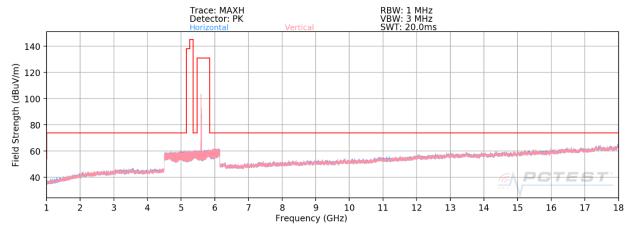
26 Tones



Plot 7-217. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 26 Tones)



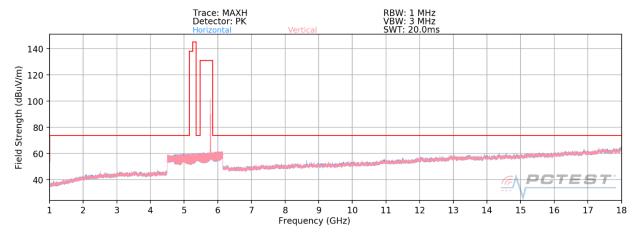
Plot 7-218. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax - U2A Ch. 56 - 26 Tones)



Plot 7-219. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 26 Tones)

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Plot 7-220. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 26 Tones)

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