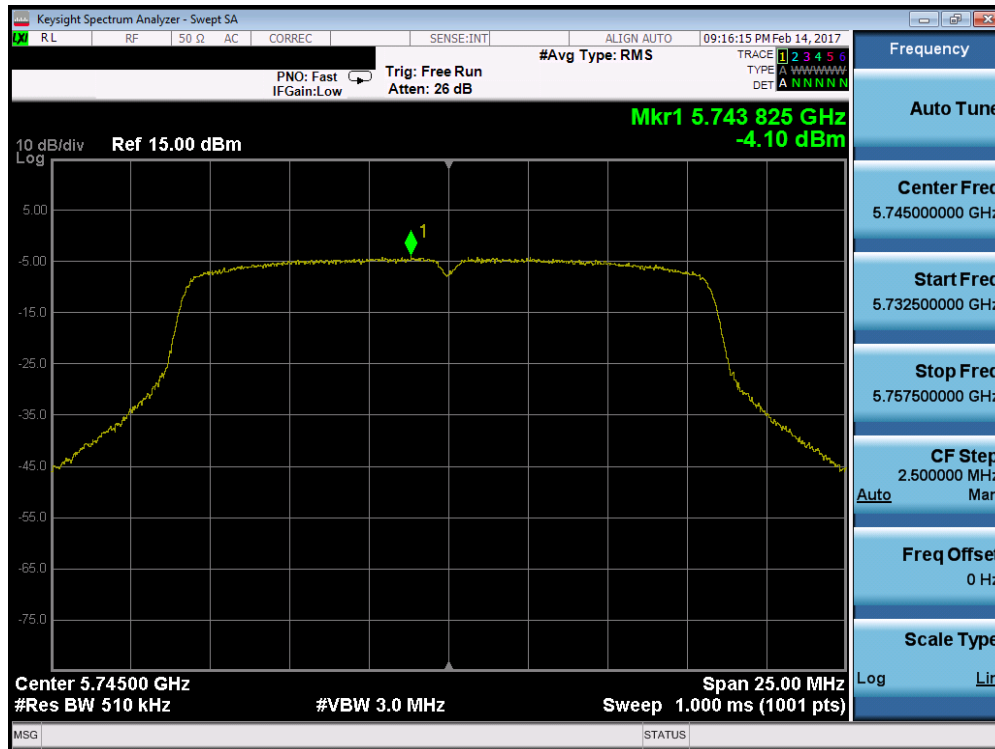


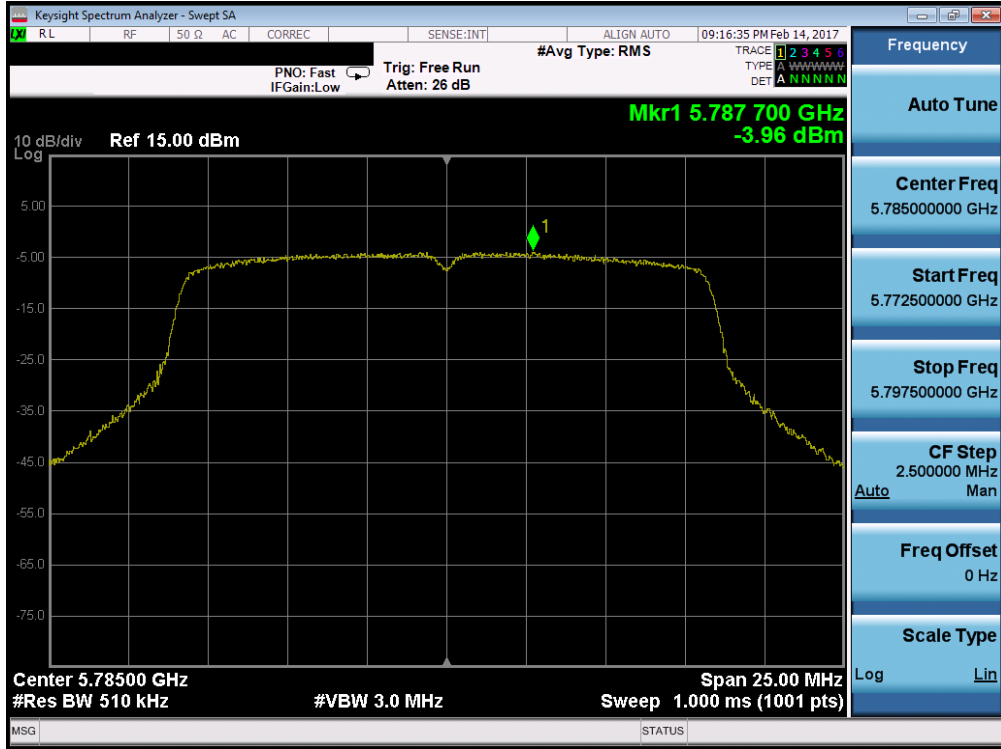
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Pass / Fail
Band 3	5745	149	a	6	-4.10	30.0	-34.10	Pass
	5785	157	a	6	-3.96	30.0	-33.96	Pass
	5825	165	a	6	-4.40	30.0	-34.40	Pass
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-3.46	30.0	-33.46	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-3.17	30.0	-33.17	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-3.66	30.0	-33.66	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	-7.04	30.0	-37.04	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	-7.25	30.0	-37.25	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-7.74	30.0	-37.74	Pass

Table 7-18. Band 3 Conducted Power Spectral Density Measurements

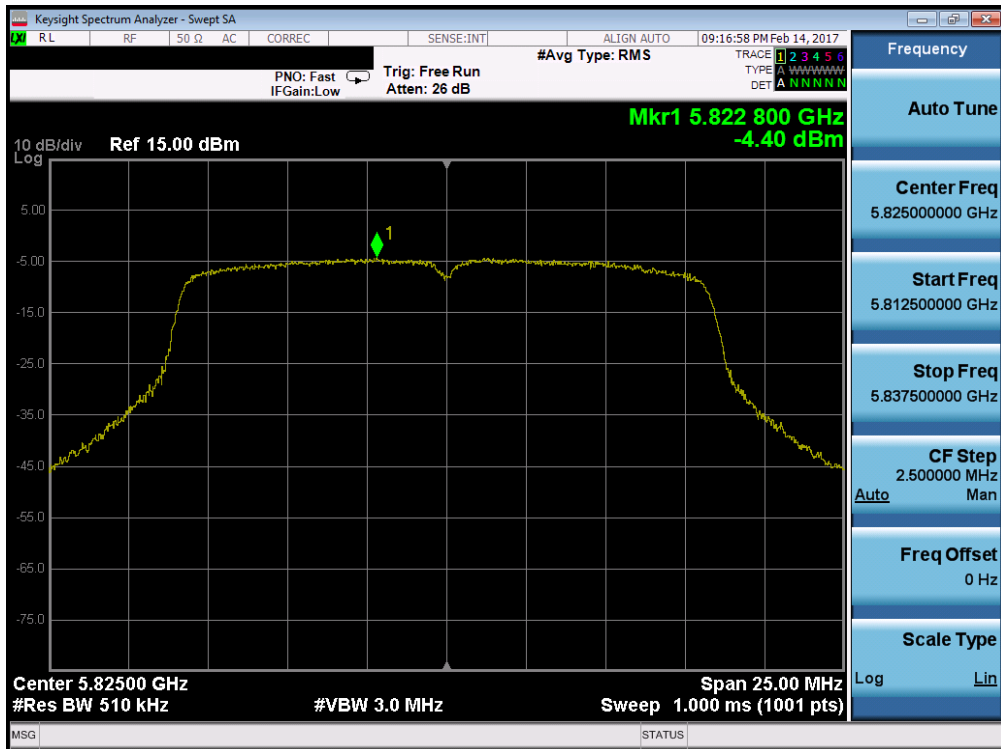


Plot 7-109. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 84 of 215

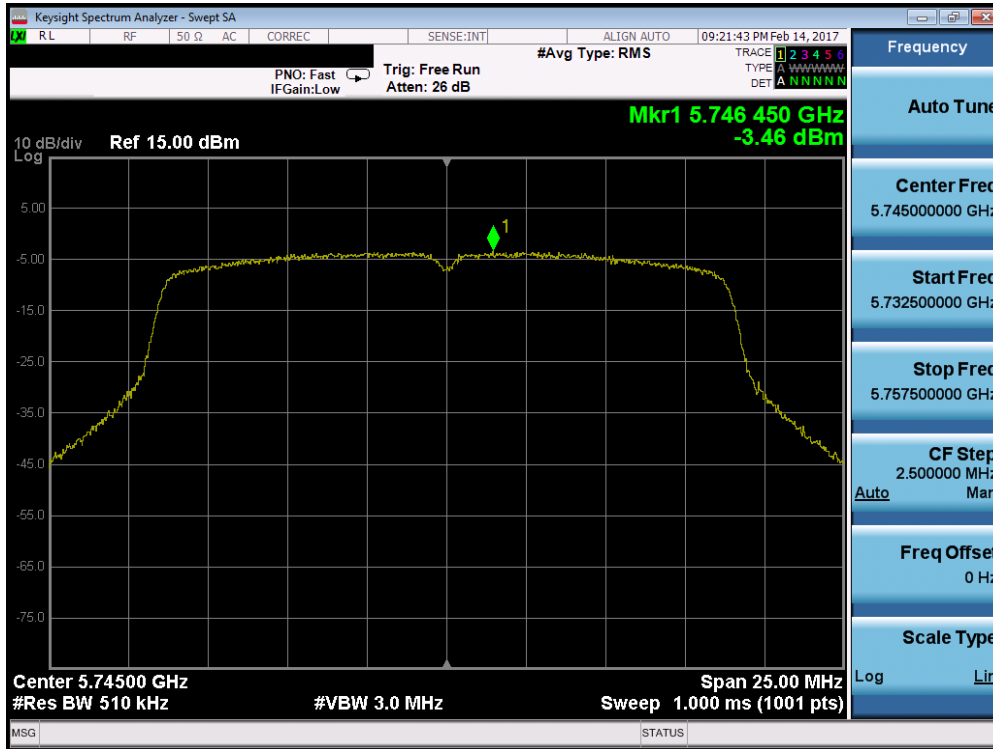


Plot 7-110. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 157)

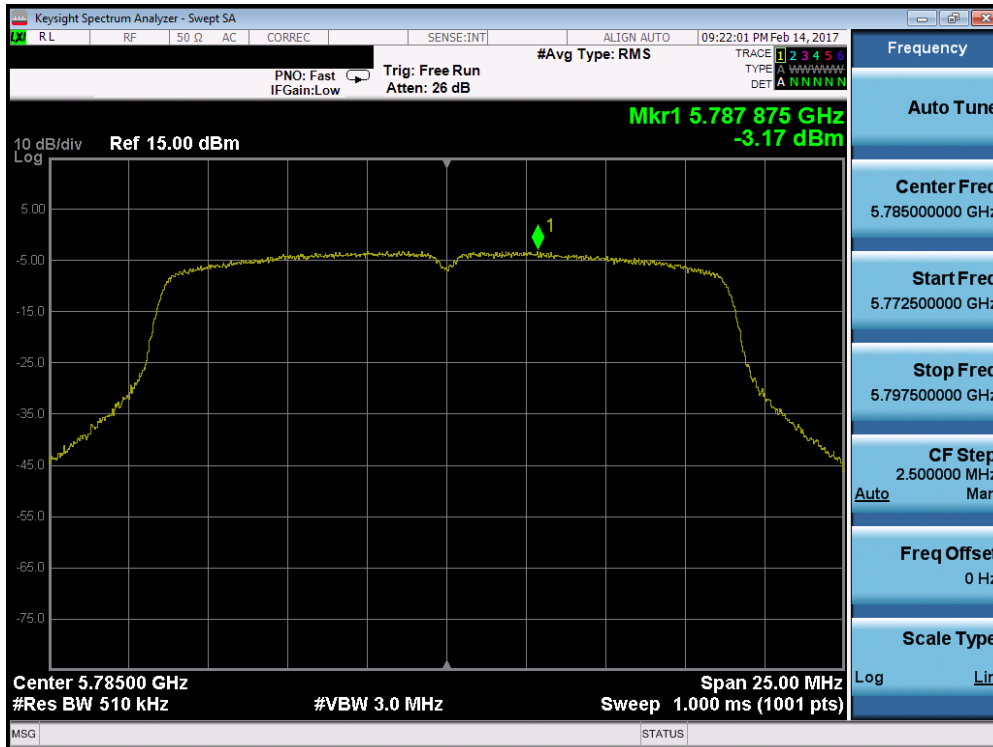


Plot 7-111. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 85 of 215

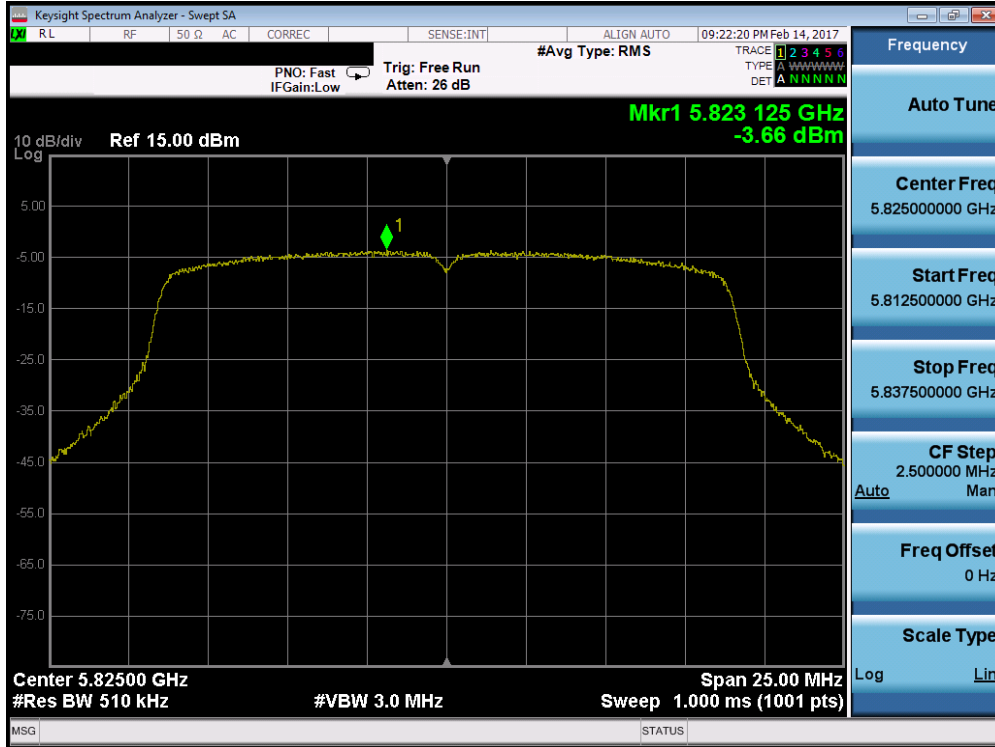


Plot 7-112. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

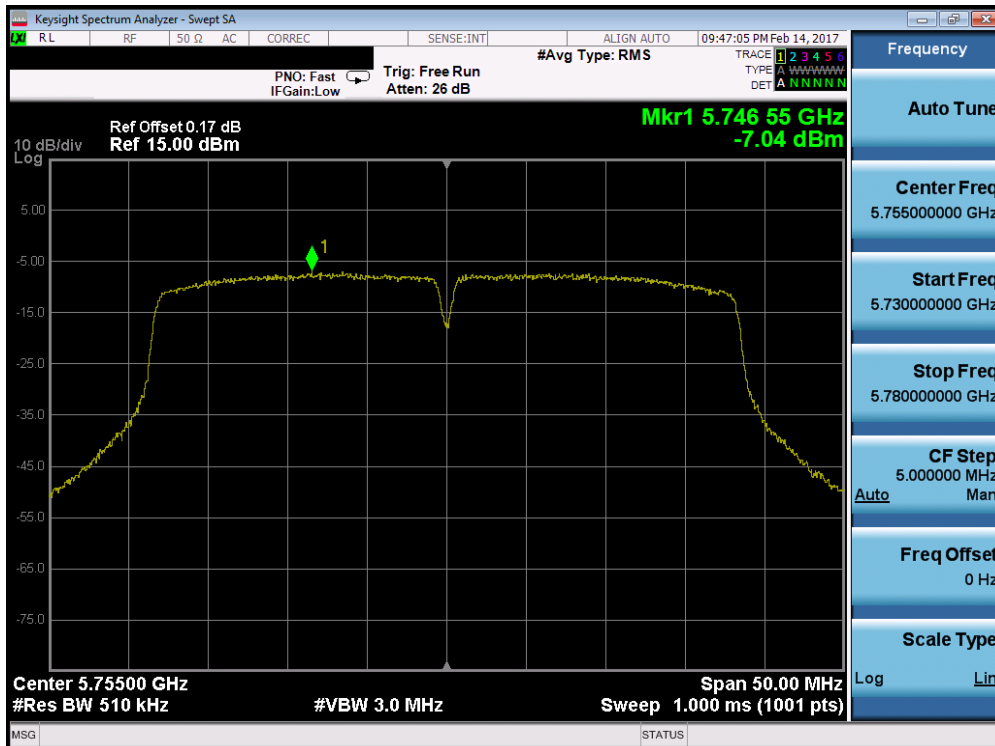


Plot 7-113. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 86 of 215

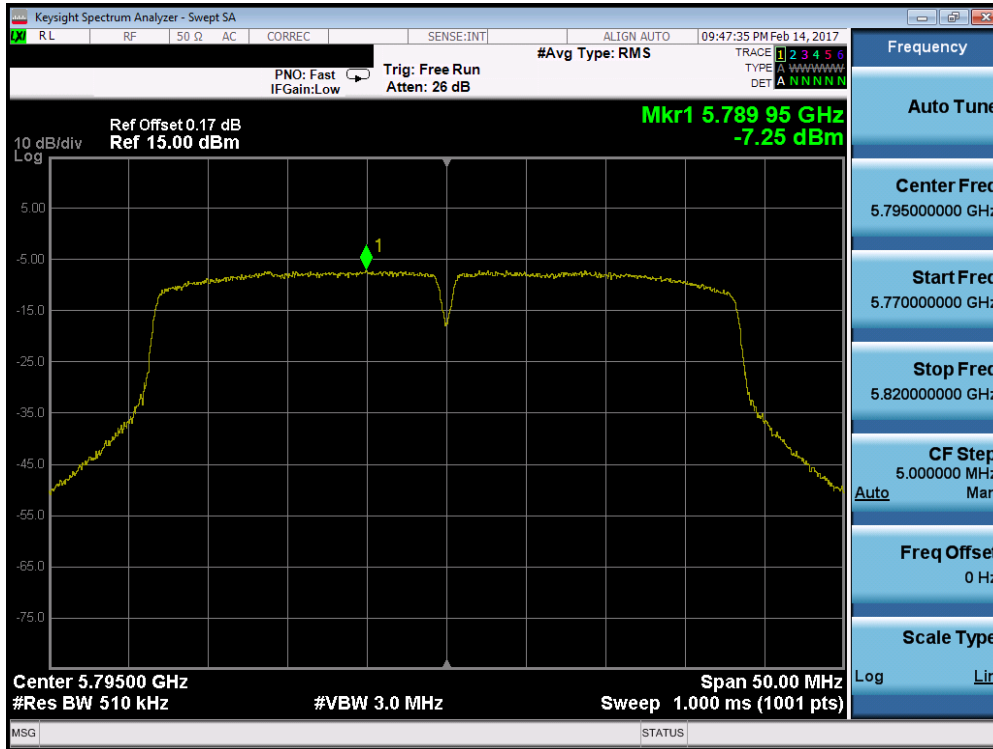


Plot 7-114. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

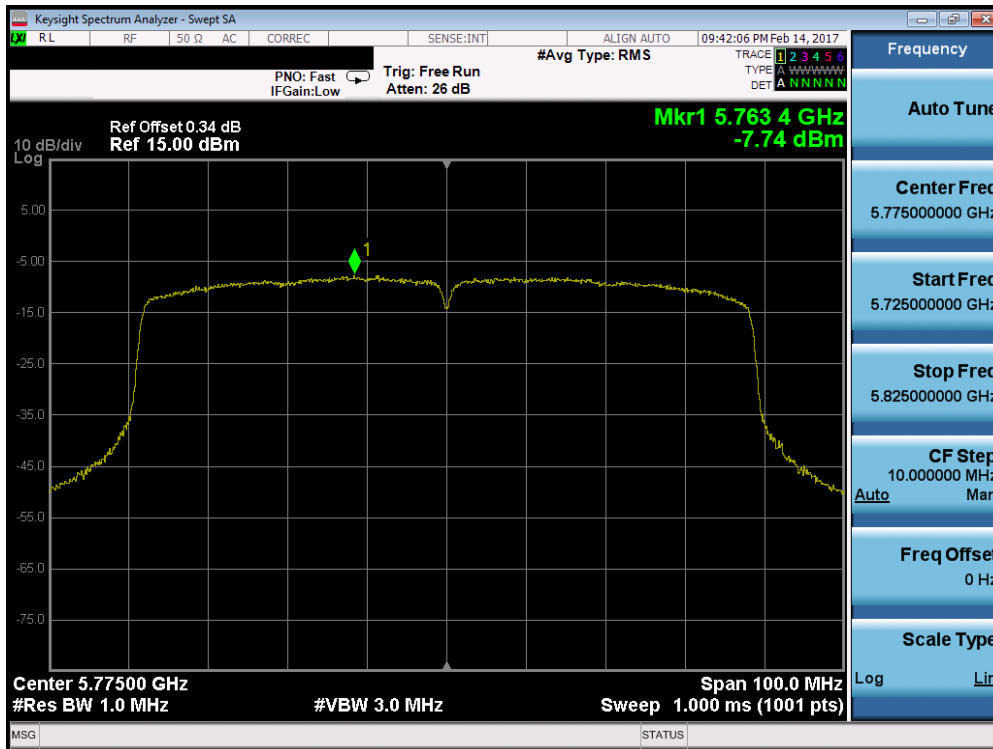


Plot 7-115. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 87 of 215



Plot 7-116. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 159)





Plot 7-117. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

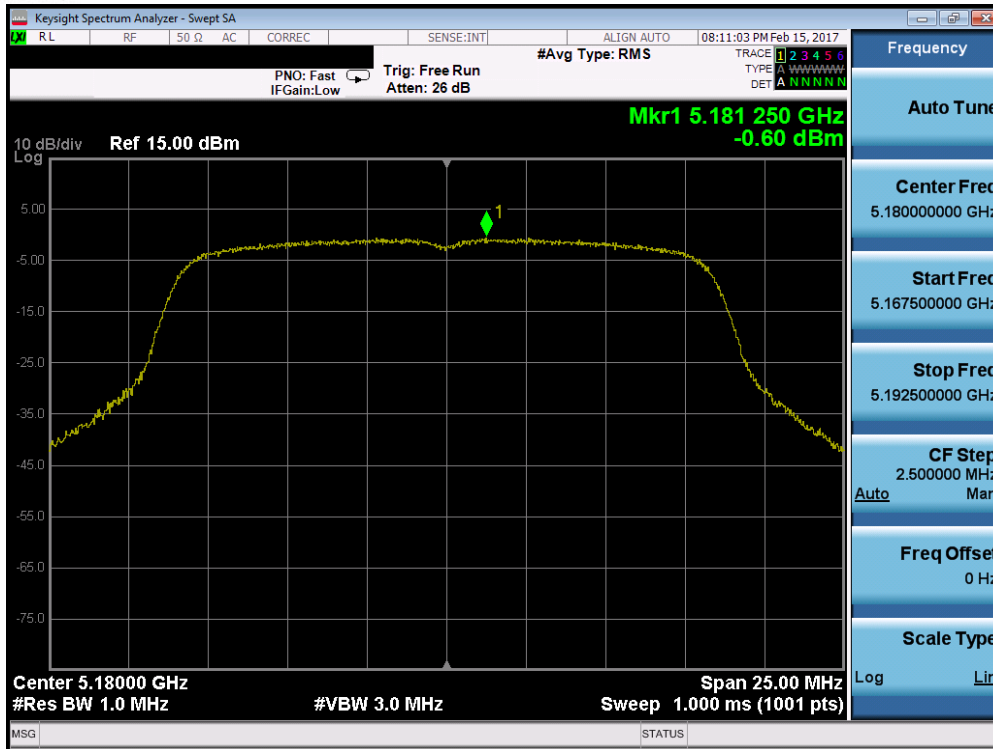
FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 88 of 215

Antenna-2 Power Spectral Density Measurements

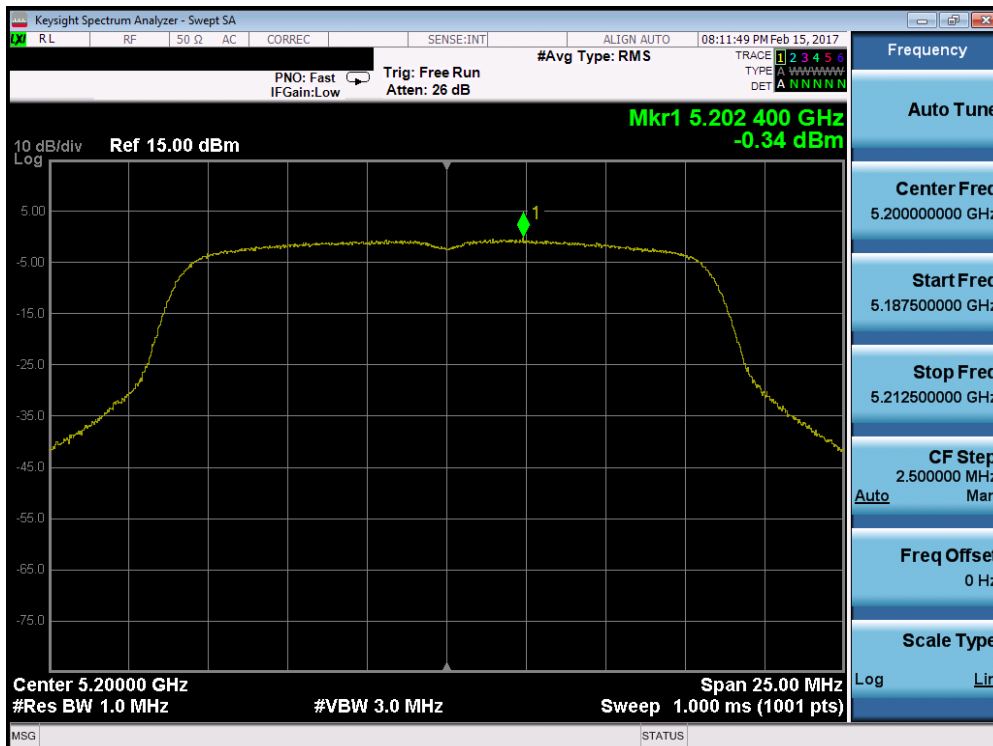
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Pass / Fail
Band 1	5180	36	a	6	-0.60	11.0	-11.60	Pass
	5200	40	a	6	-0.34	11.0	-11.34	Pass
	5240	48	a	6	-0.85	11.0	-11.85	Pass
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	-0.98	11.0	-11.98	Pass
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	-1.00	11.0	-12.00	Pass
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	-1.08	11.0	-12.08	Pass
	5190	38	n (40MHz)	13.5/15 (MCS0)	-4.80	11.0	-15.80	Pass
	5230	46	n (40MHz)	13.5/15 (MCS0)	-4.96	11.0	-15.96	Pass
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-7.98	11.0	-18.98	Pass
Band 2A	5260	52	a	6	-1.02	11.0	-12.02	Pass
	5280	56	a	6	-0.68	11.0	-11.68	Pass
	5320	64	a	6	-0.85	11.0	-11.85	Pass
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	-1.52	11.0	-12.52	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	-1.22	11.0	-12.22	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	-1.28	11.0	-12.28	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	-5.00	11.0	-16.00	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	-5.02	11.0	-16.02	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-8.18	11.0	-19.18	Pass
Band 2C	5500	100	a	6	-0.57	11.0	-11.57	Pass
	5600	120	a	6	-0.12	11.0	-11.12	Pass
	5720	144	a	6	-0.97	11.0	-11.97	Pass
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	-0.92	11.0	-11.92	Pass
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	-0.64	11.0	-11.64	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	-1.17	11.0	-12.17	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	-4.85	11.0	-15.85	Pass
	5590	118	n (40MHz)	13.5/15 (MCS0)	-4.47	11.0	-15.47	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	-4.45	11.0	-15.45	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-8.54	11.0	-19.54	Pass
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-7.88	11.0	-18.88	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-11.54	11.0	-22.54	Pass

Table 7-19. Conducted Power Spectral Density Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 89 of 215	

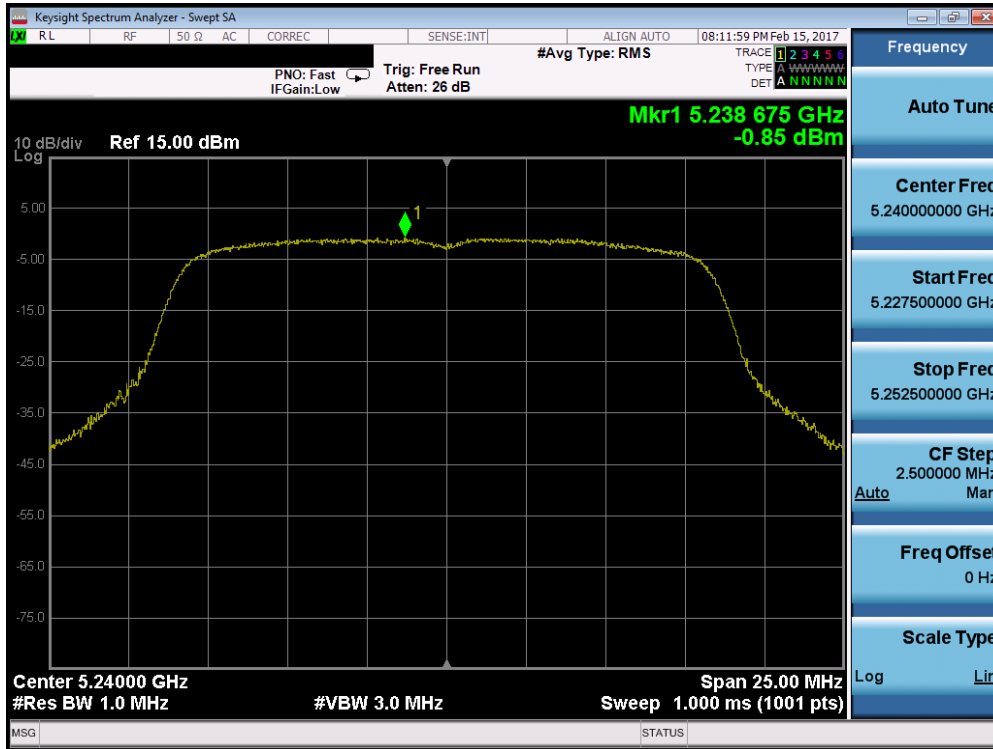


Plot 7-118. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 36)

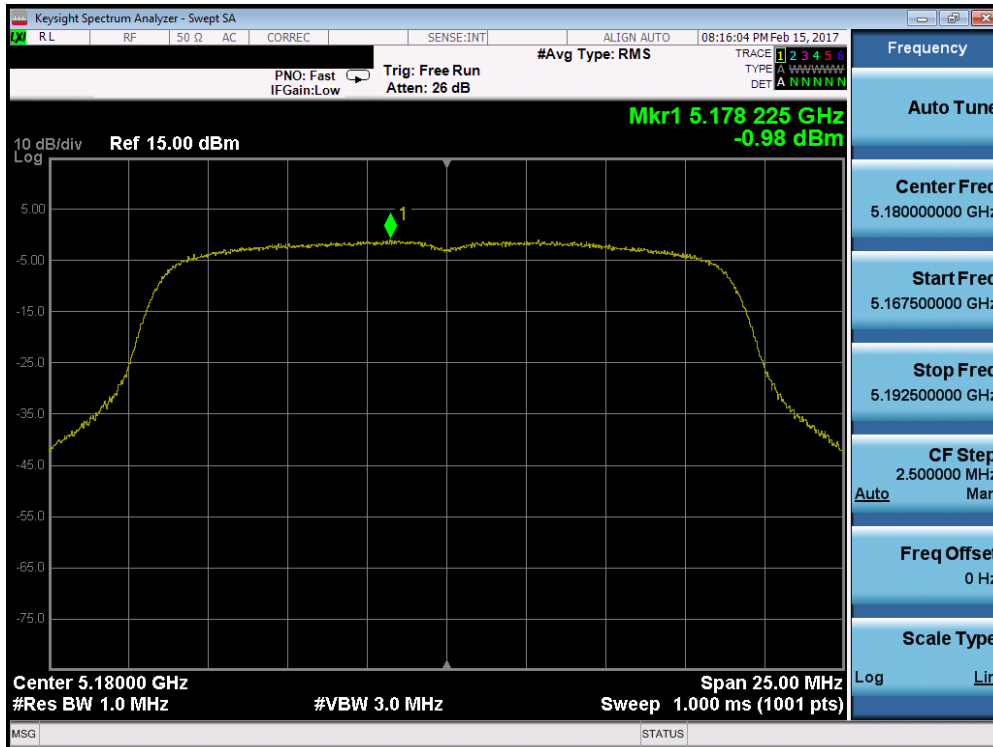


Plot 7-119. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 90 of 215

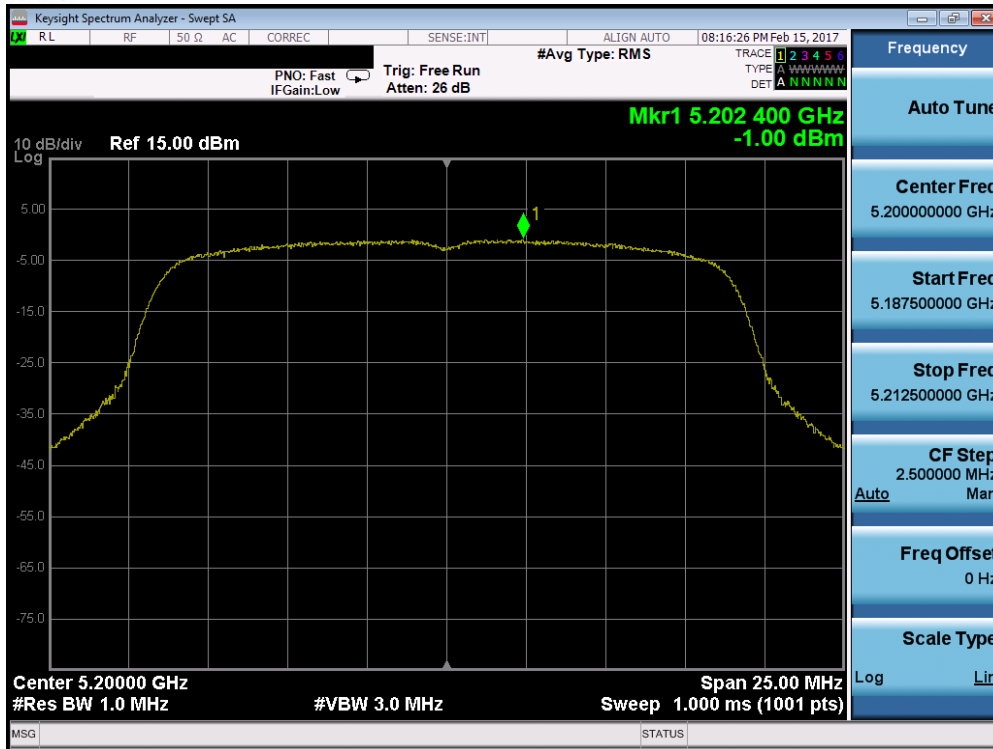


Plot 7-120. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 48)

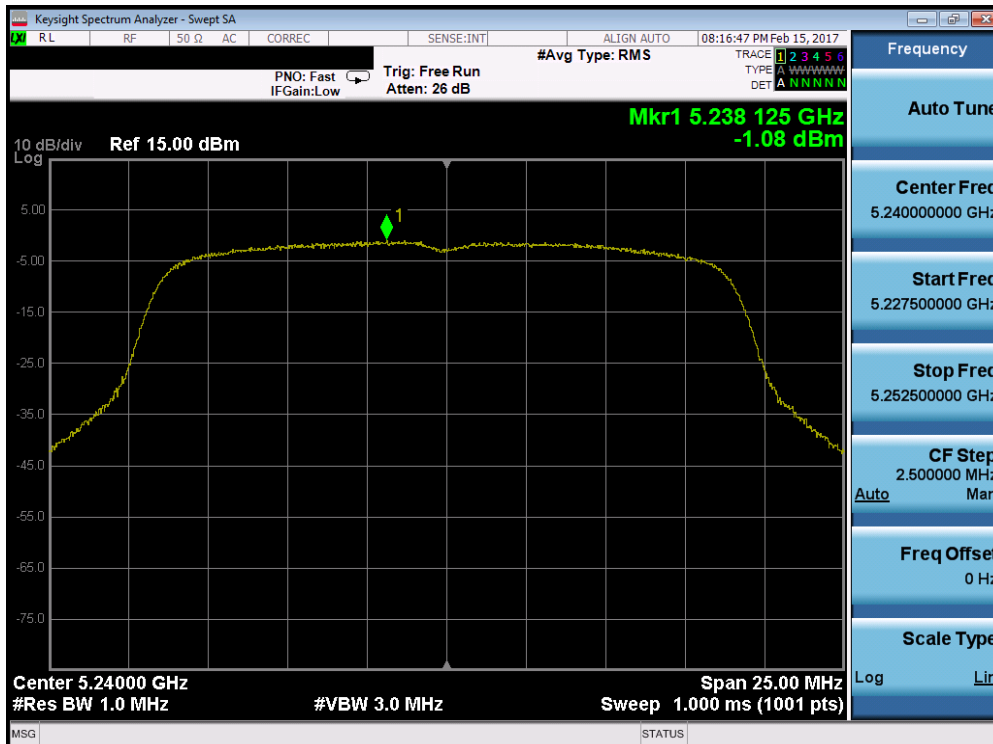


Plot 7-121. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 91 of 215

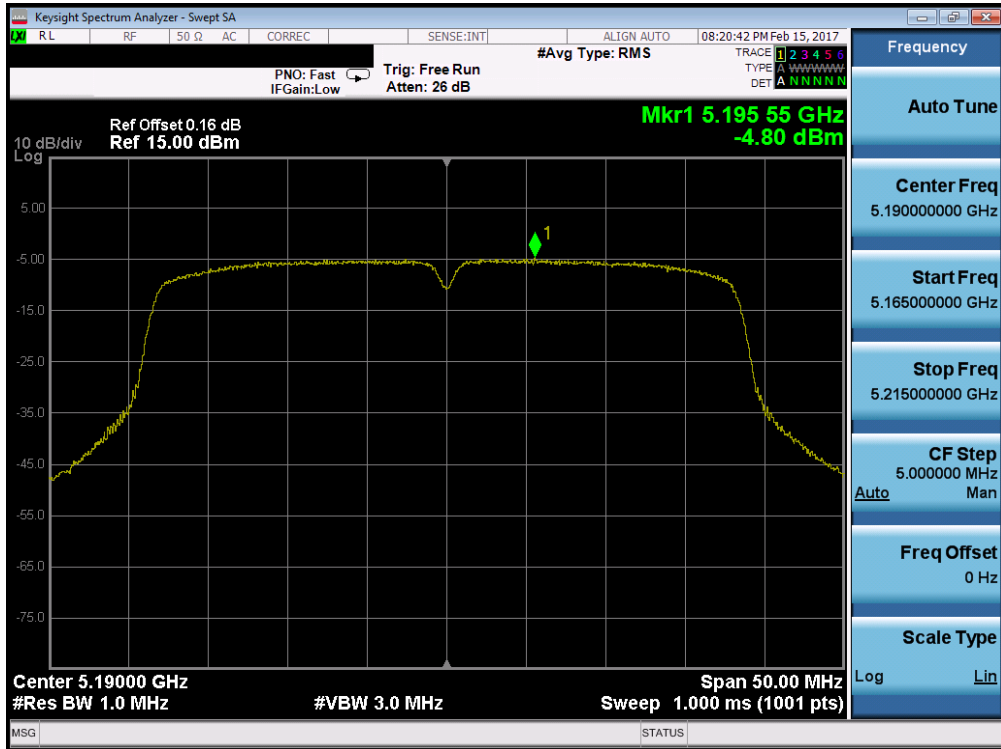


Plot 7-122. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

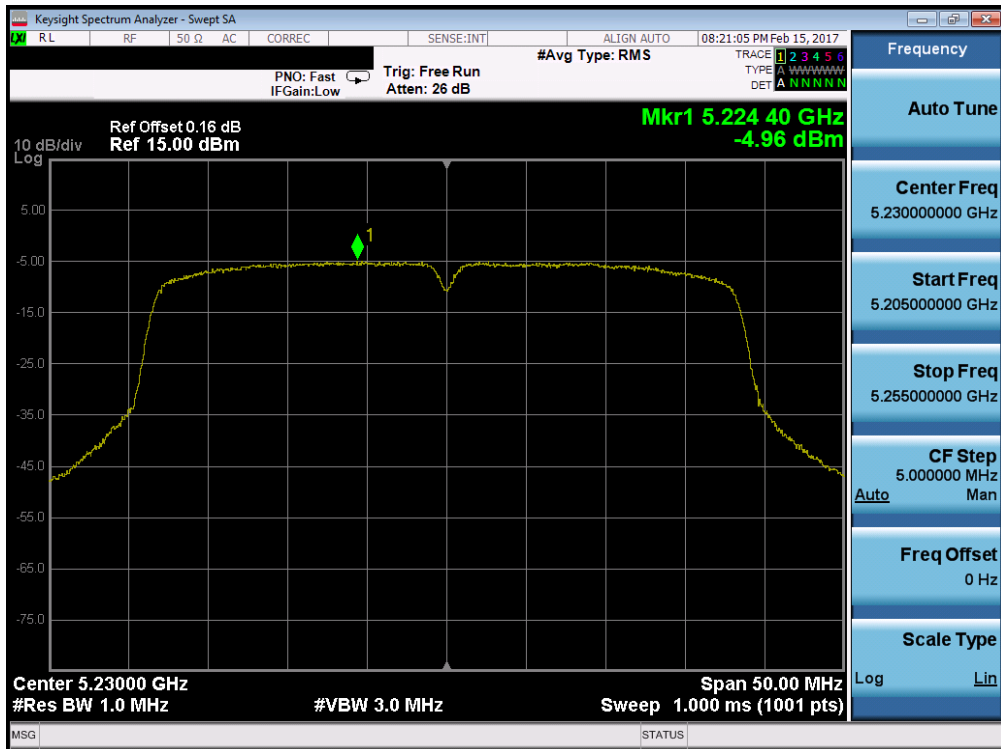


Plot 7-123. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 92 of 215

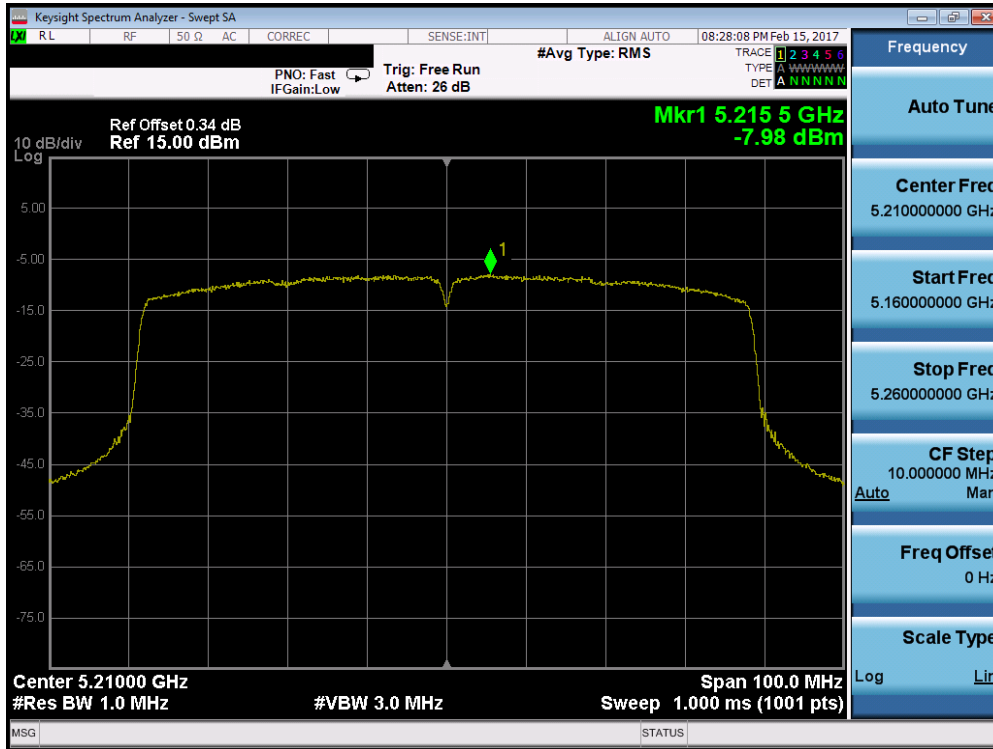


Plot 7-124. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

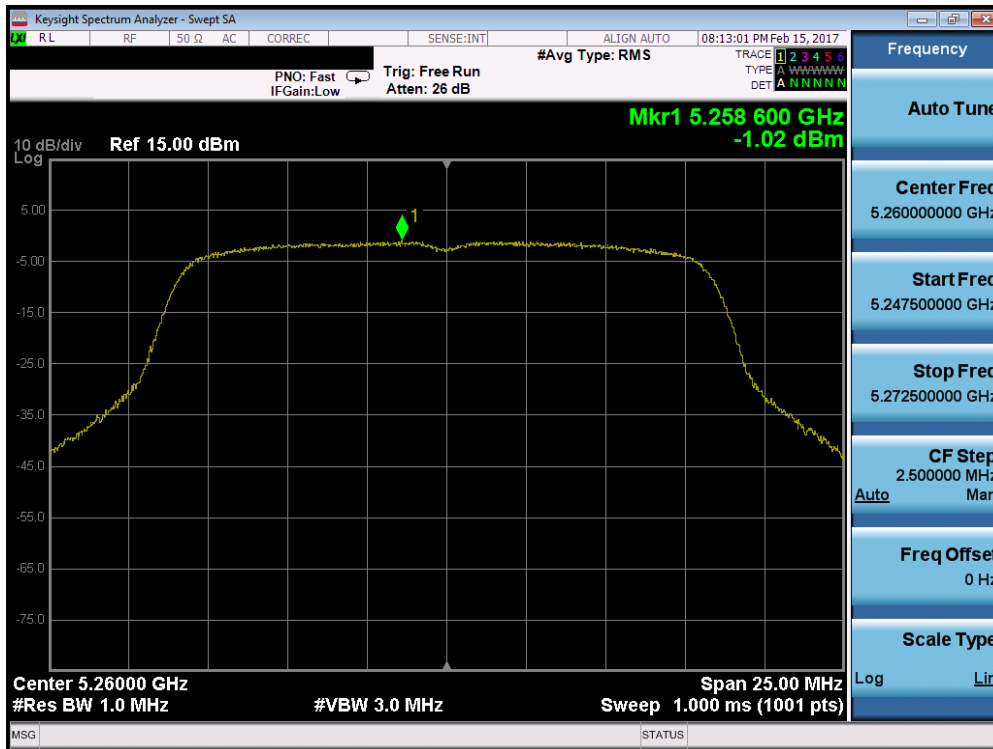


Plot 7-125. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 93 of 215

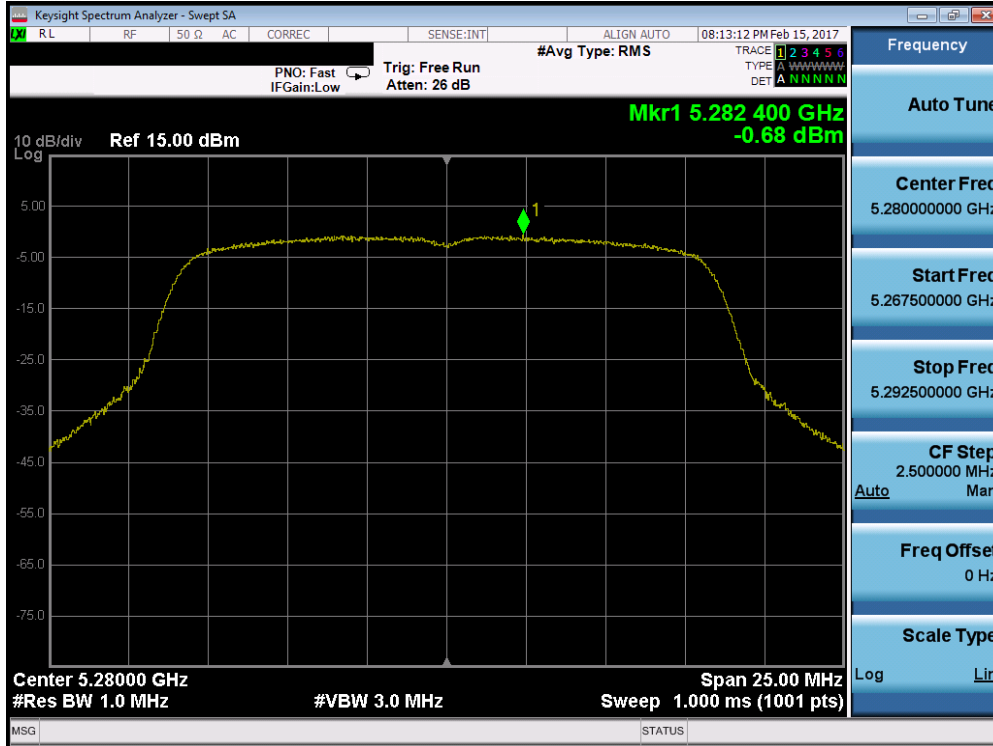


Plot 7-126. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

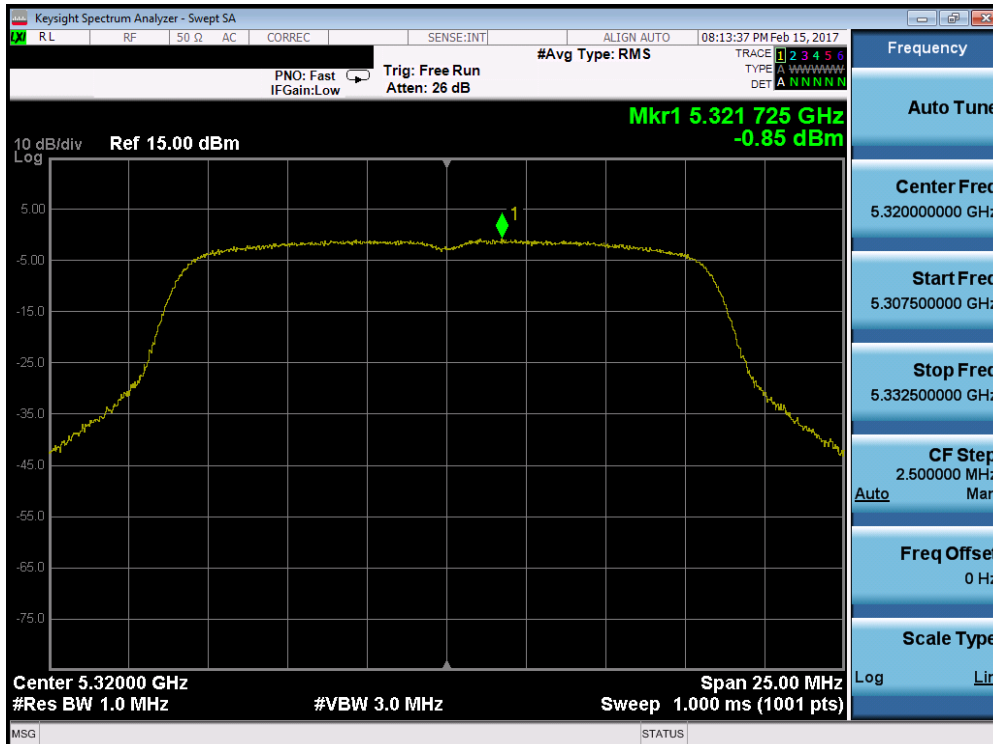


Plot 7-127. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 94 of 215

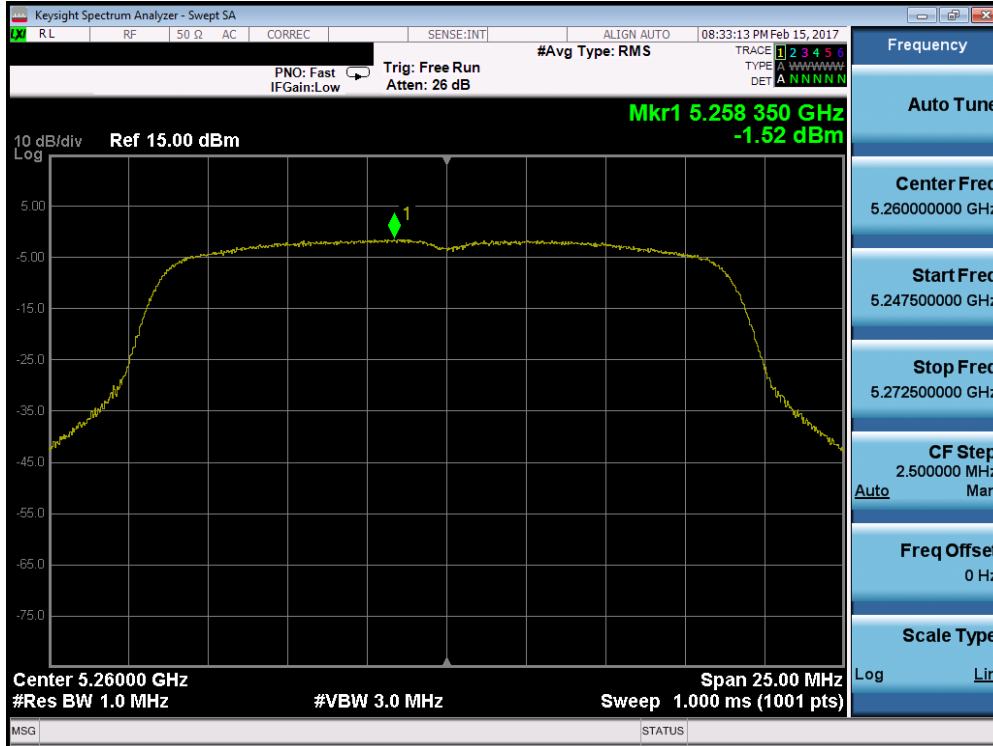


Plot 7-128. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

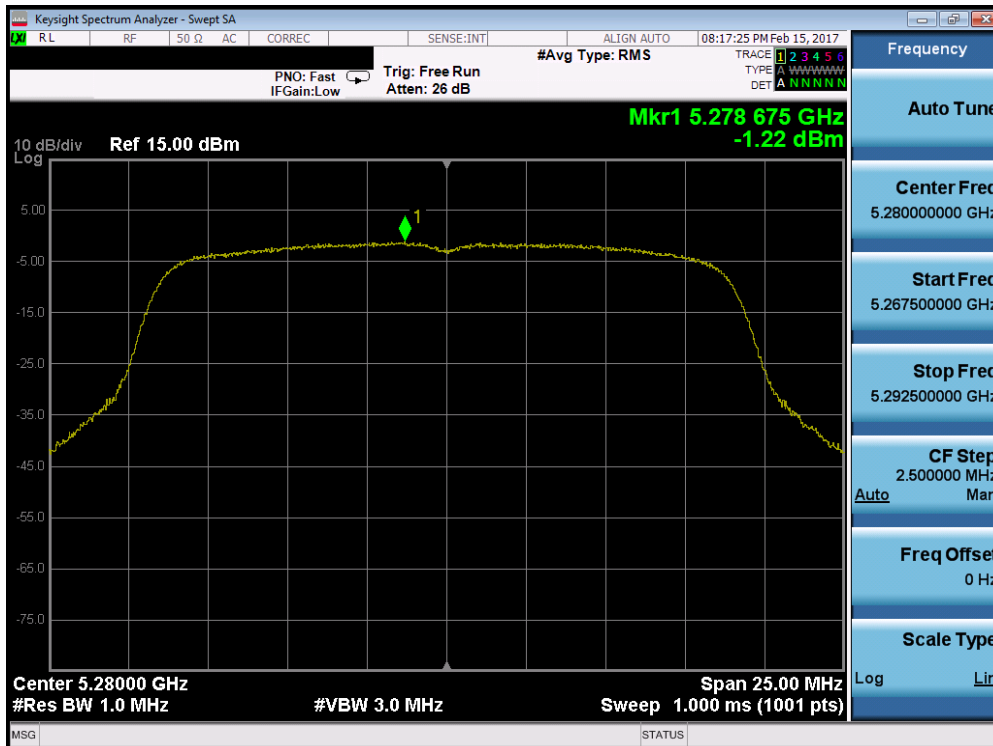


Plot 7-129. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 95 of 215

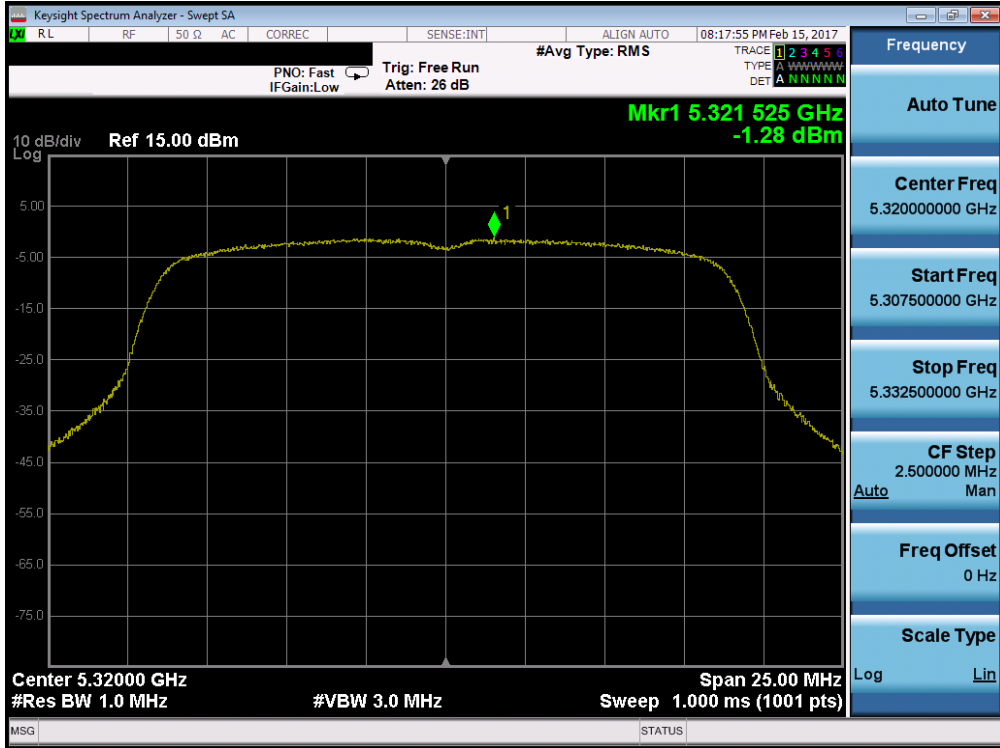


Plot 7-130. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

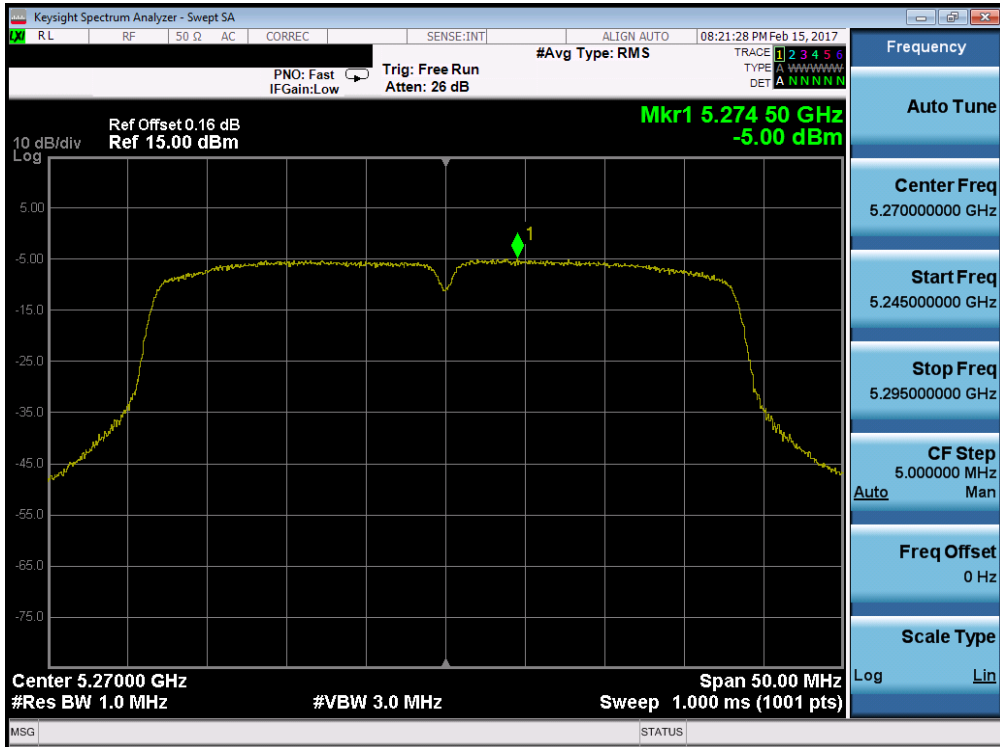


Plot 7-131. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 96 of 215

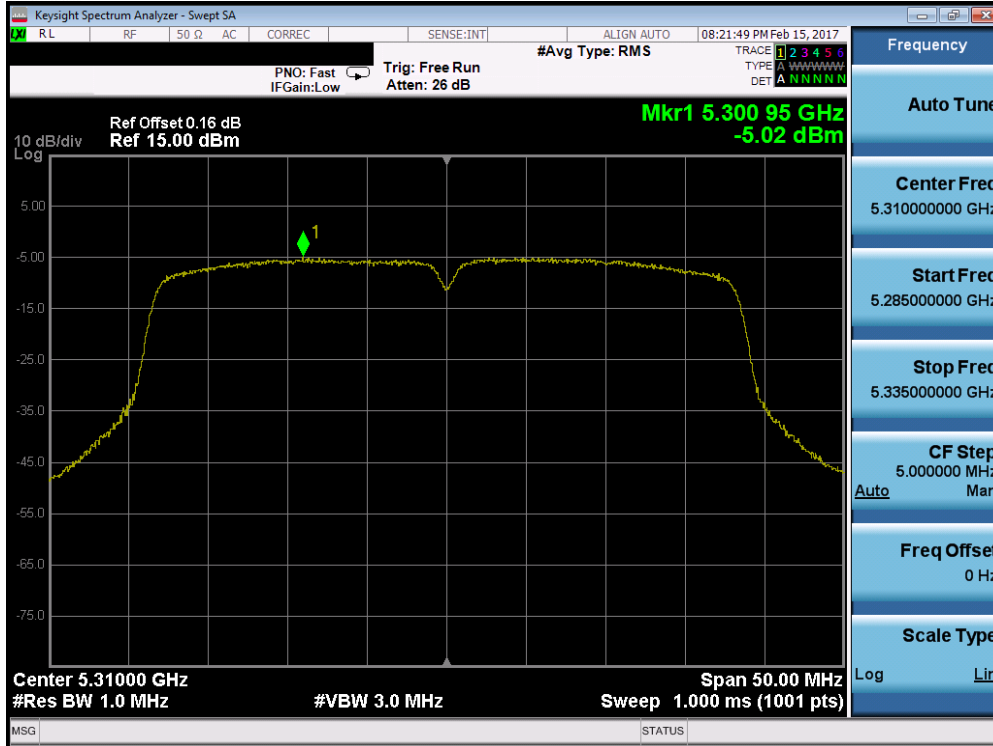


Plot 7-132. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

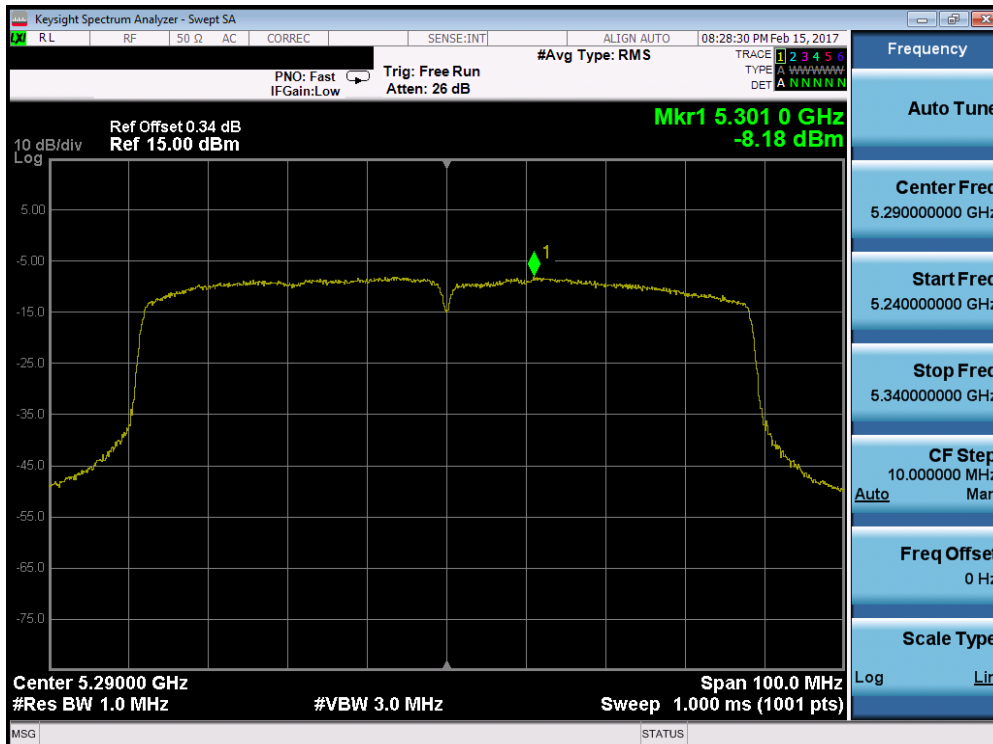


Plot 7-133. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 97 of 215

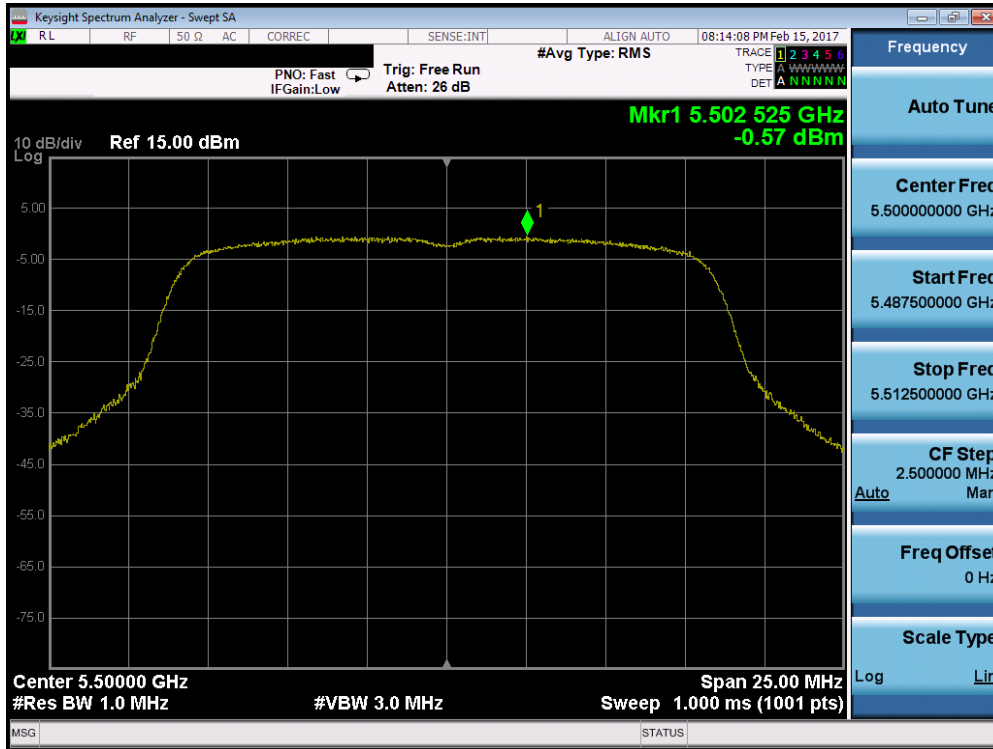


Plot 7-134. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

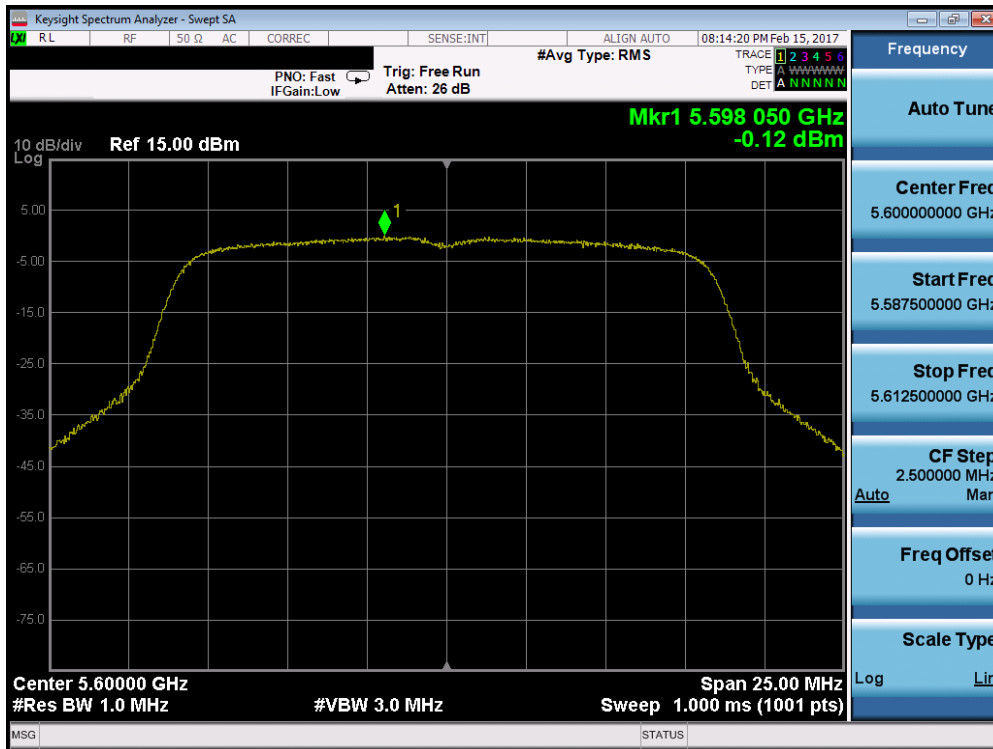


Plot 7-135. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 98 of 215

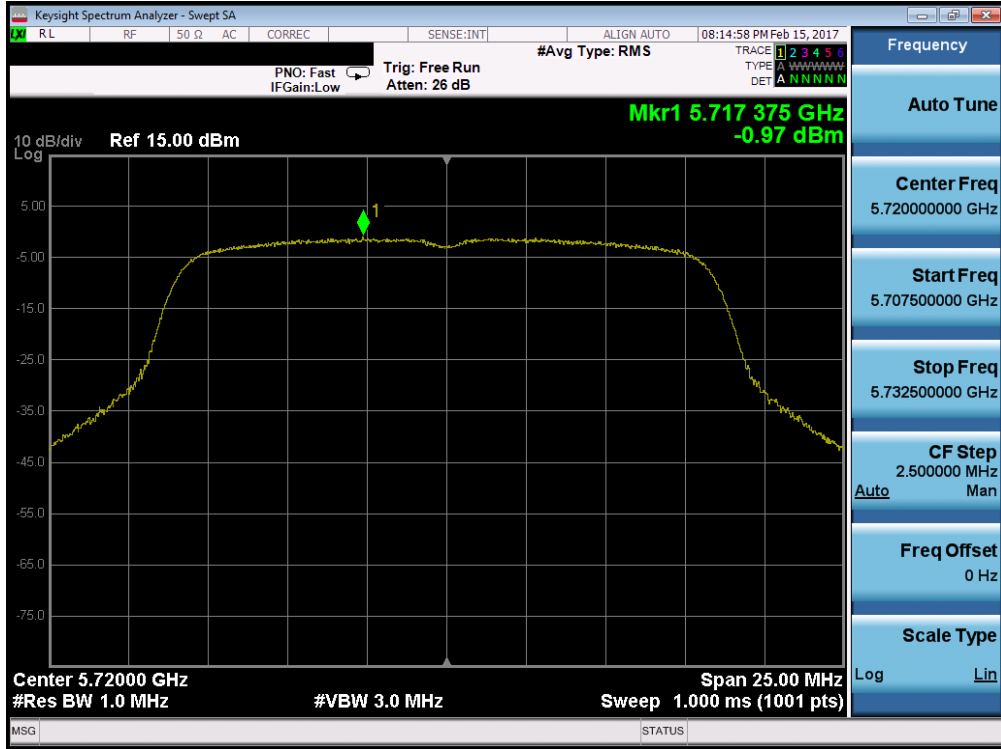


Plot 7-136. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

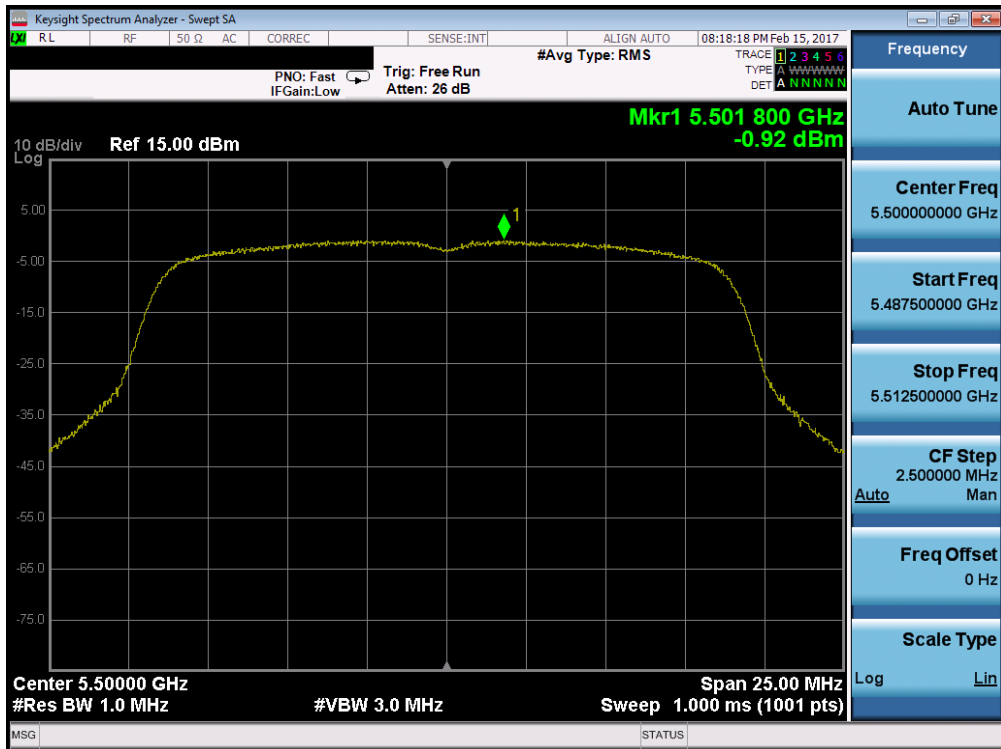


Plot 7-137. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 99 of 215

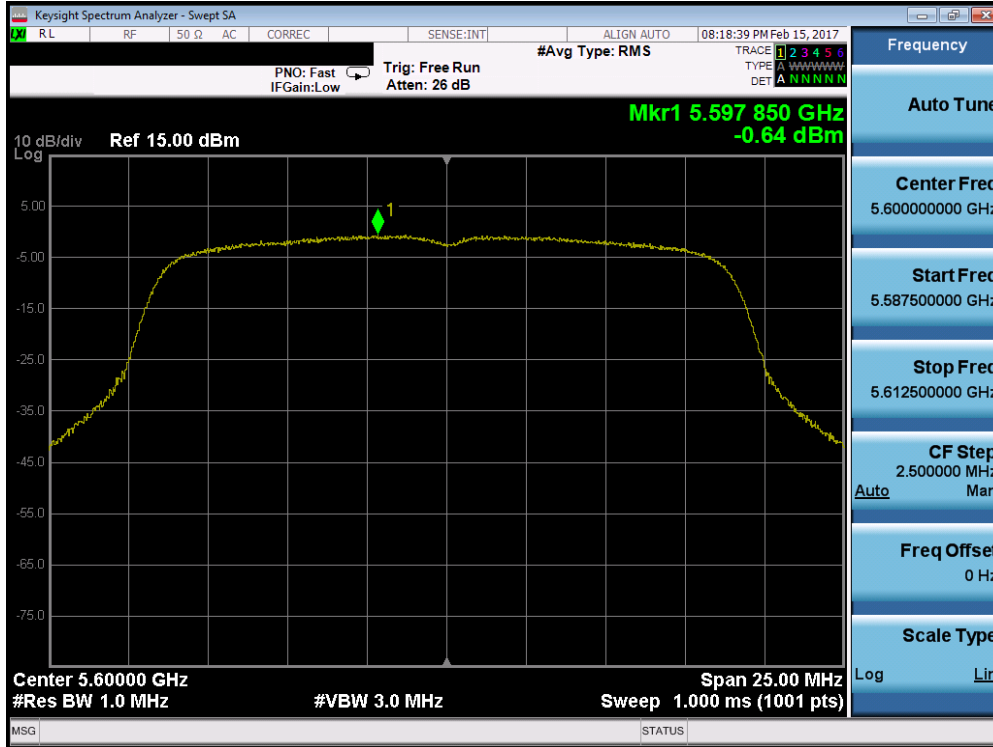


Plot 7-138. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

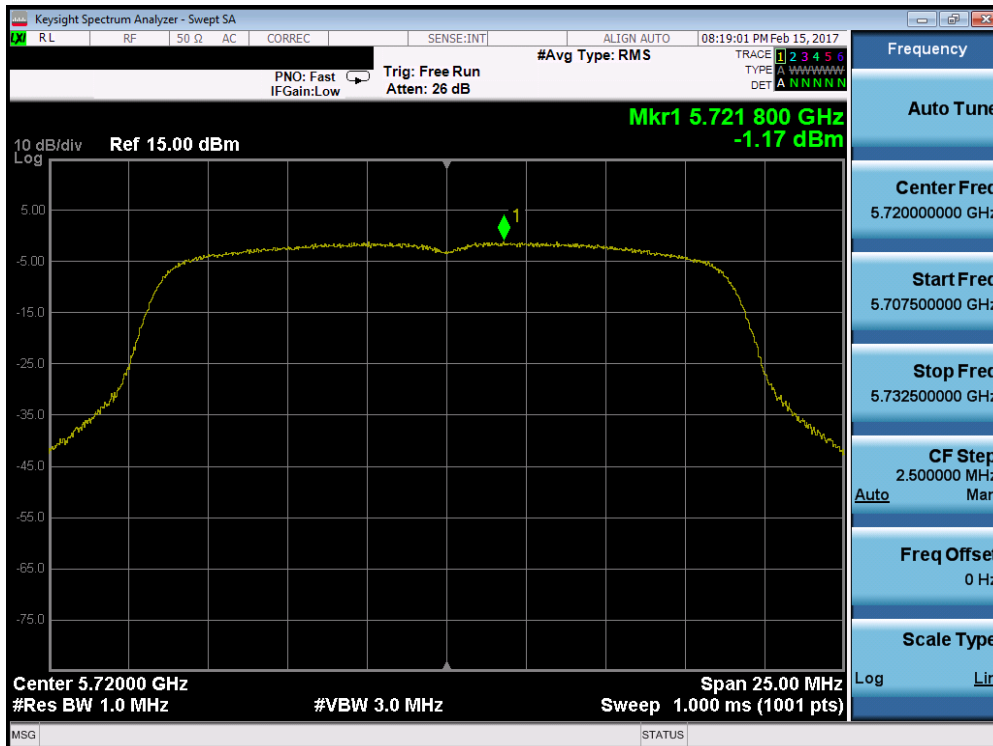


Plot 7-139. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 100 of 215

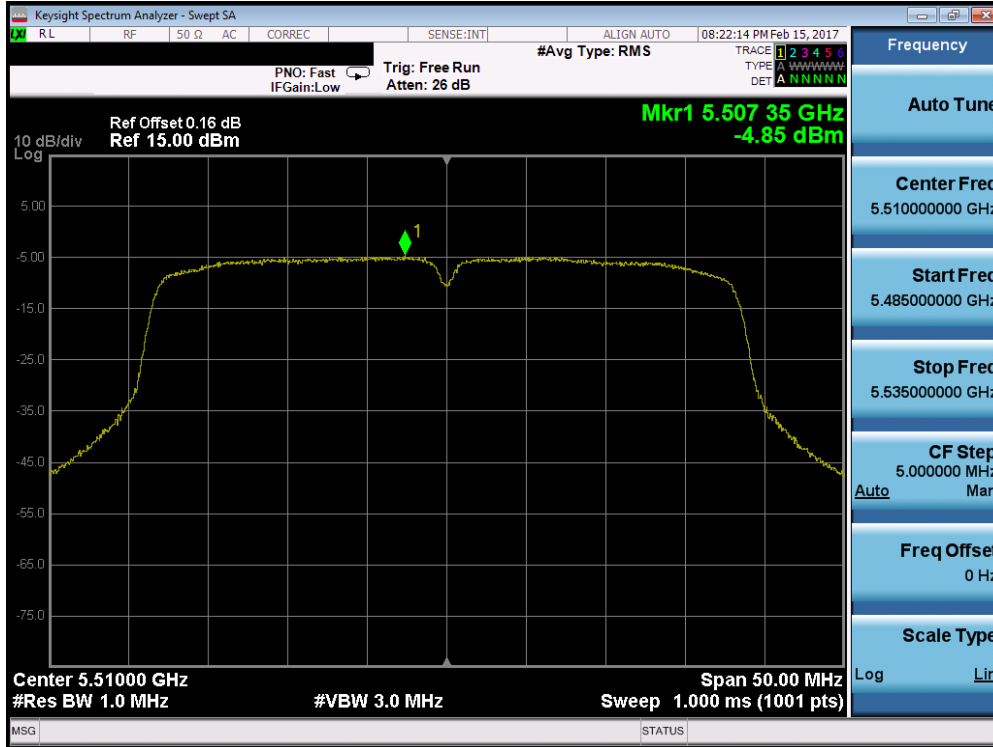


Plot 7-140. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

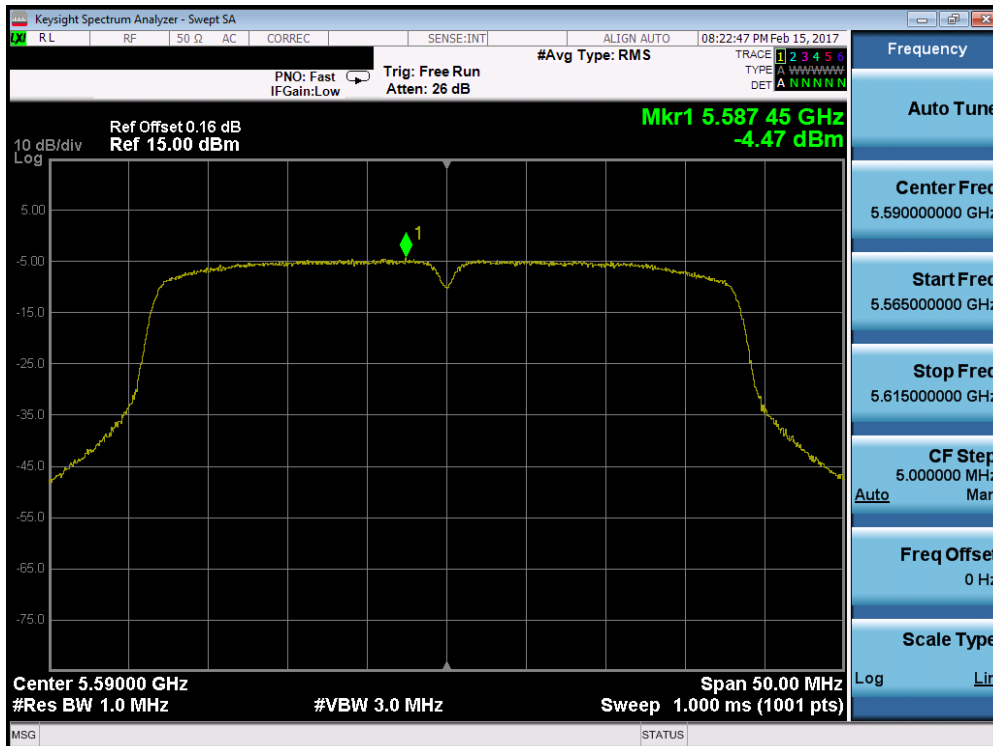


Plot 7-141. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 101 of 215

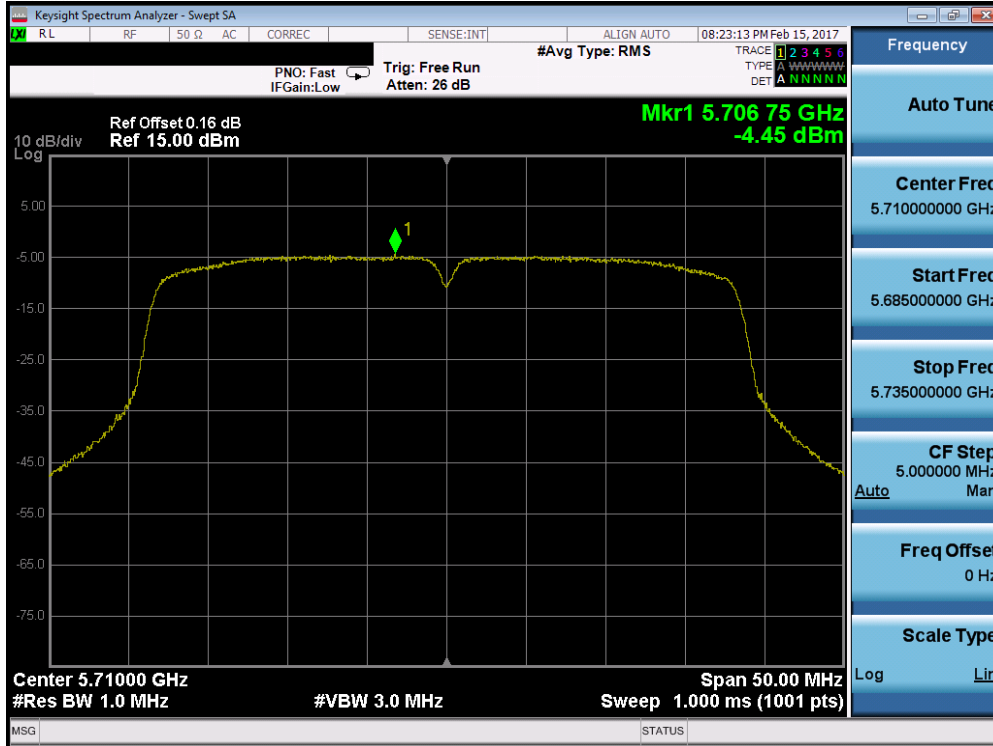


Plot 7-142. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

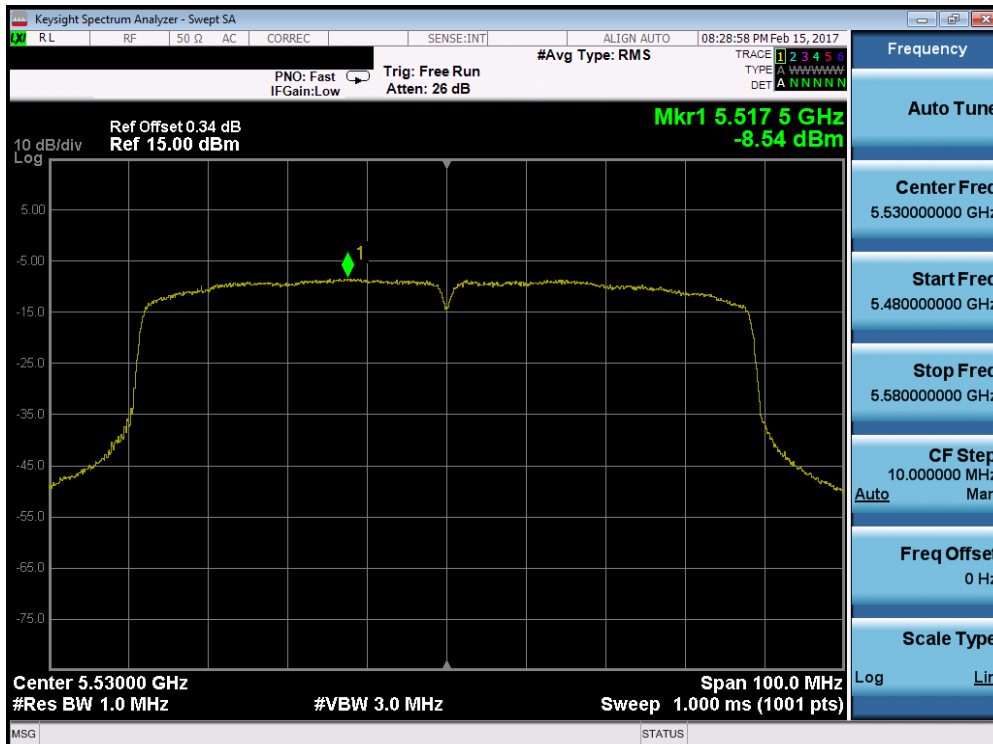


Plot 7-143. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 102 of 215



Plot 7-144. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)



Plot 7-145. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 103 of 215



Plot 7-146. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

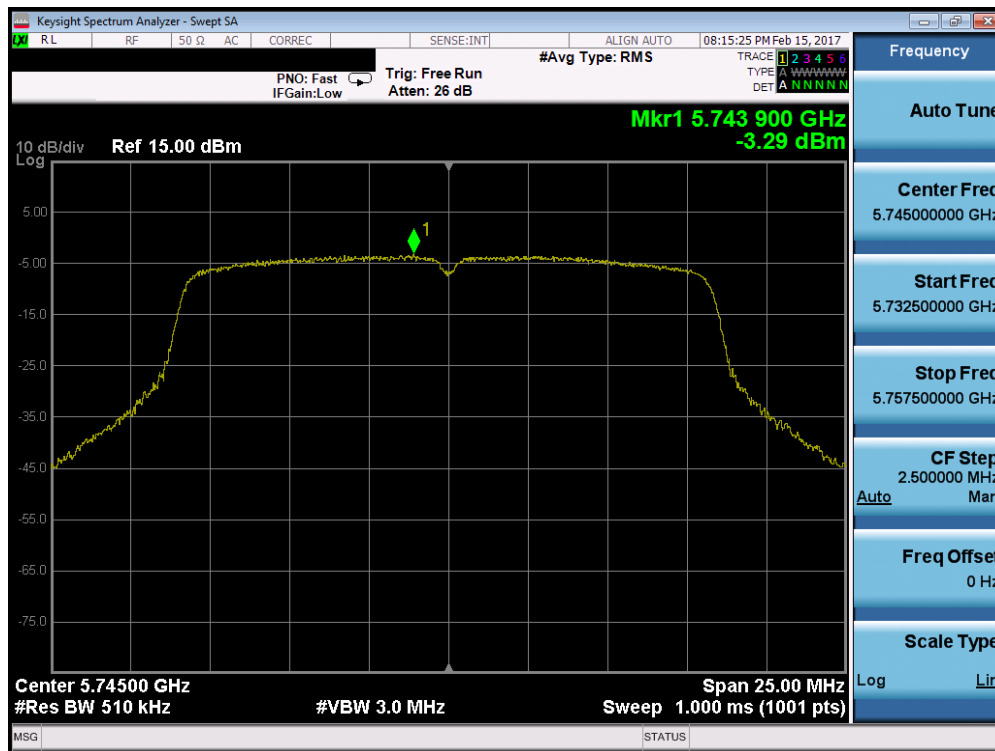


Plot 7-147. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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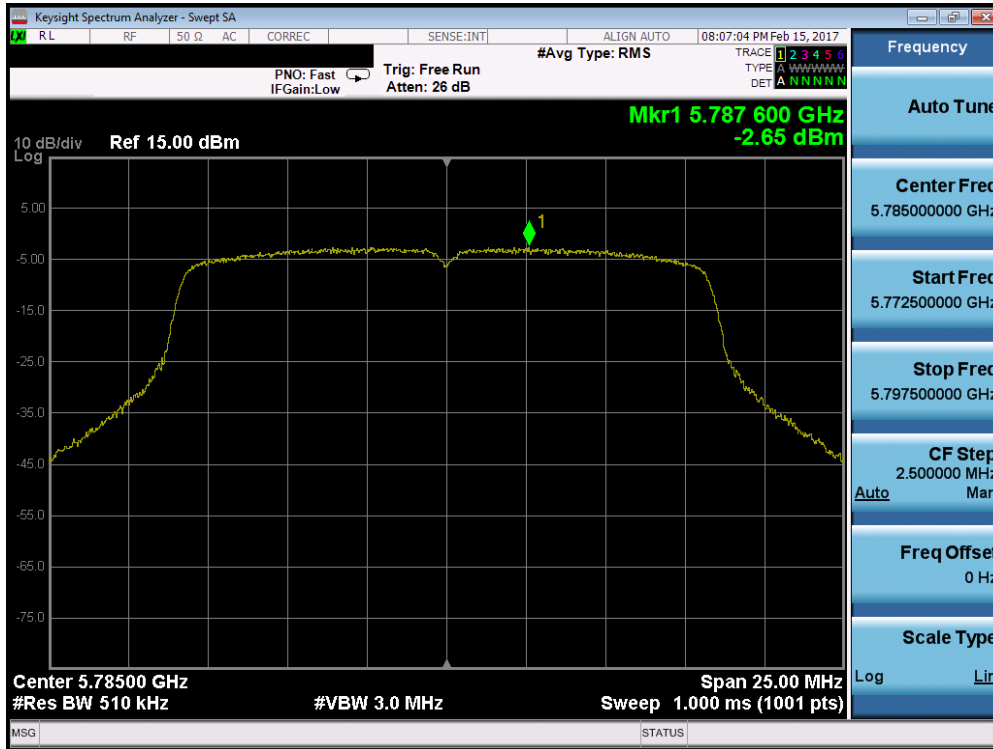
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Pass / Fail
Band 3	5745	149	a	6	-3.29	30.0	-33.29	Pass
	5785	157	a	6	-2.65	30.0	-32.65	Pass
	5825	165	a	6	-2.85	30.0	-32.85	Pass
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-3.78	30.0	-33.78	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-2.64	30.0	-32.64	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-3.20	30.0	-33.20	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	-7.63	30.0	-37.63	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	-6.70	30.0	-36.70	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-7.45	30.0	-37.45	Pass

Table 7-20. Band 3 Conducted Power Spectral Density Measurements

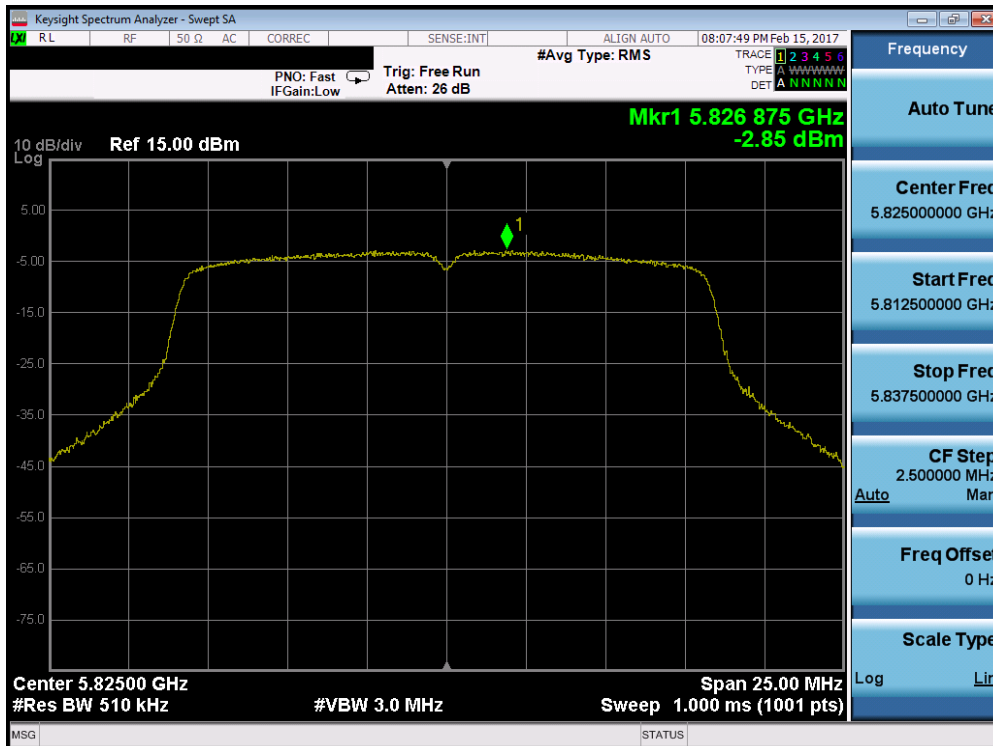


Plot 7-148. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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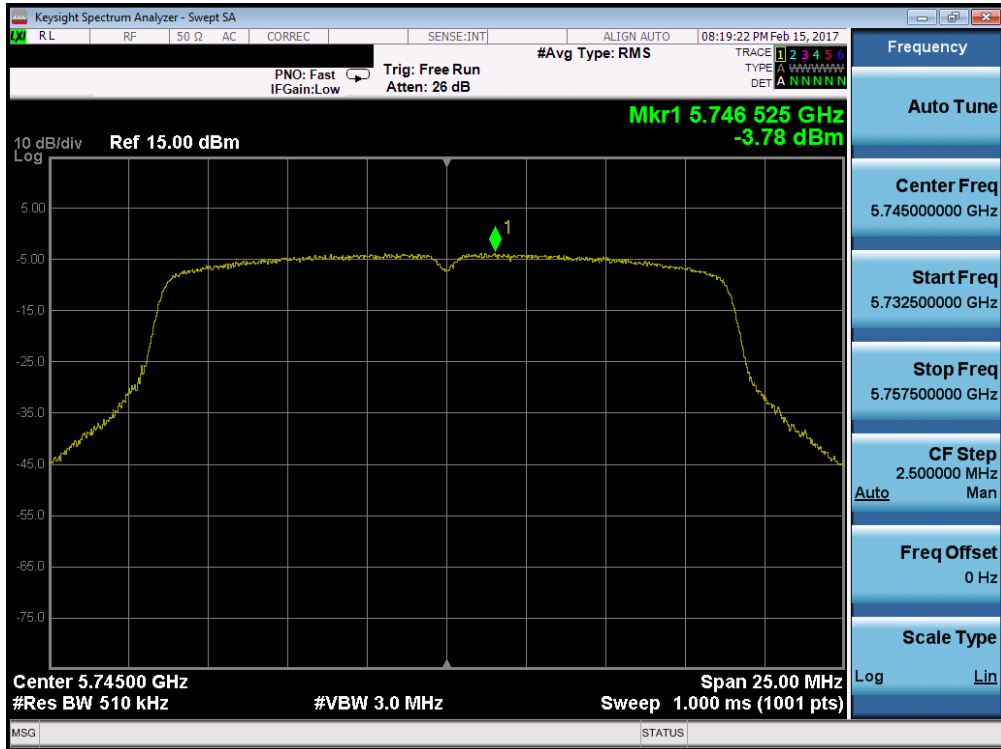


Plot 7-149. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 157)

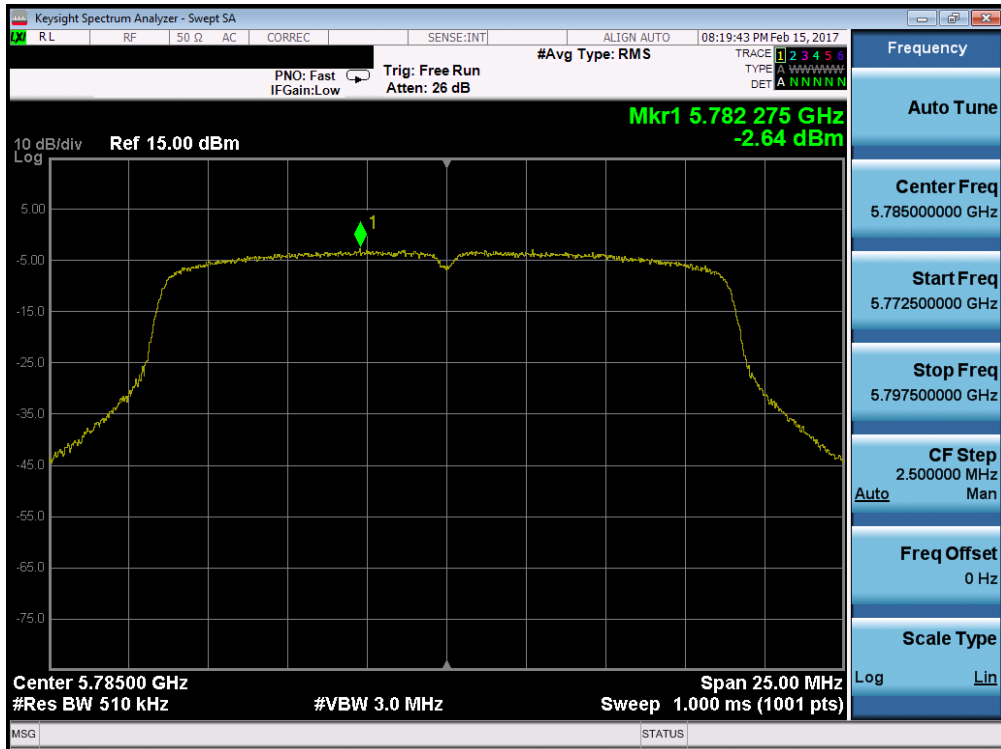


Plot 7-150. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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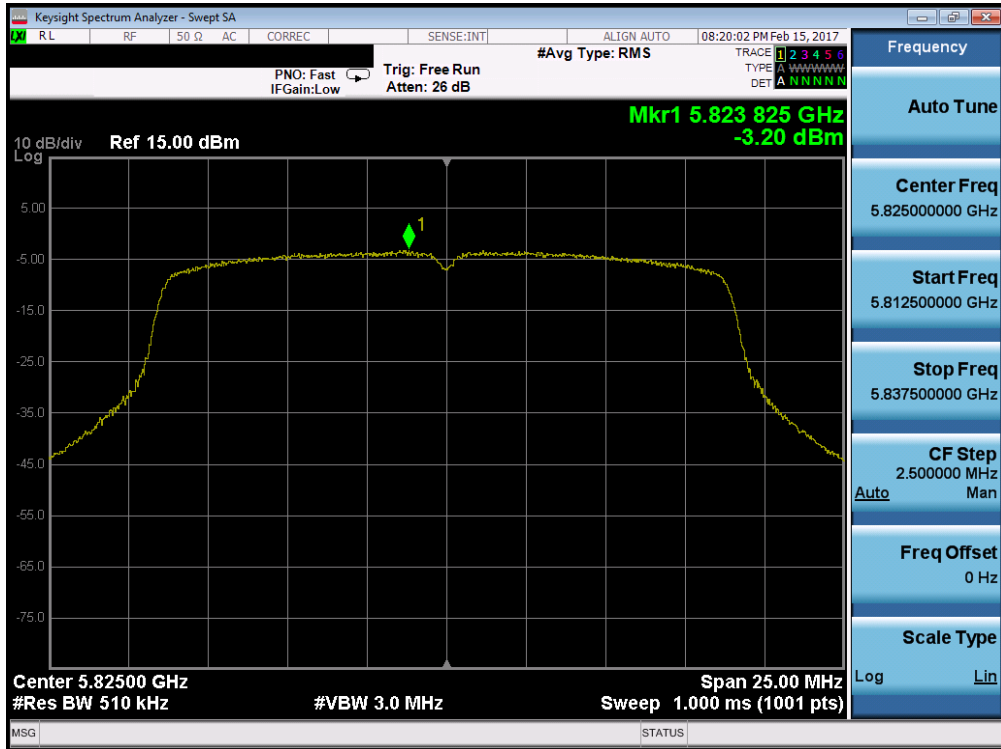


Plot 7-151. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 149)



Plot 7-152. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

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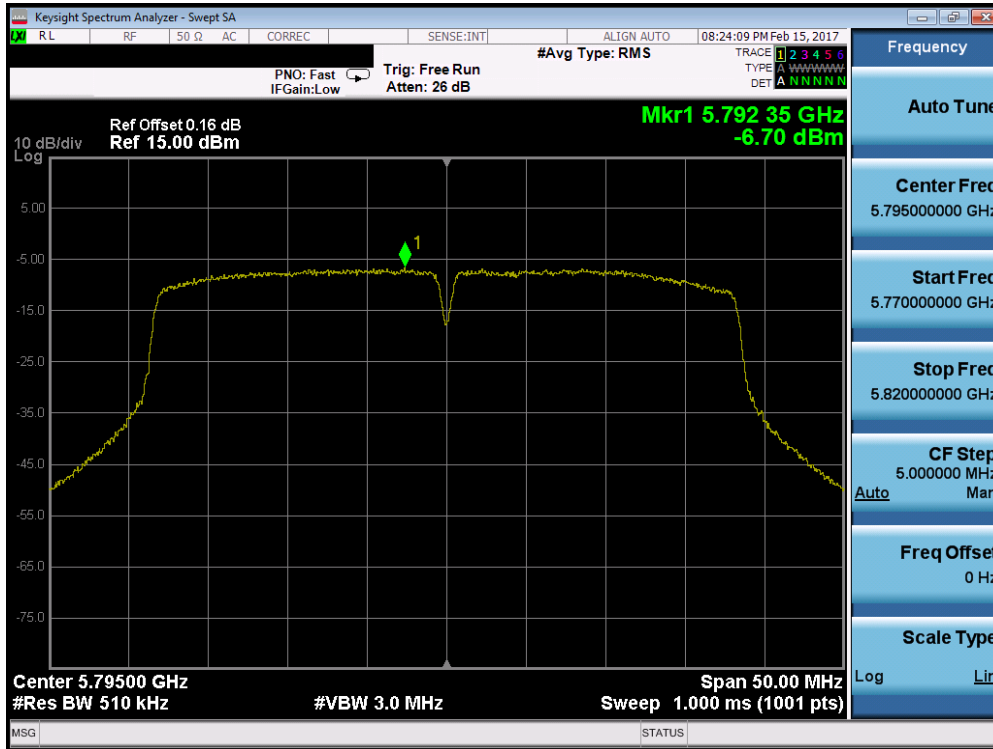


Plot 7-153. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

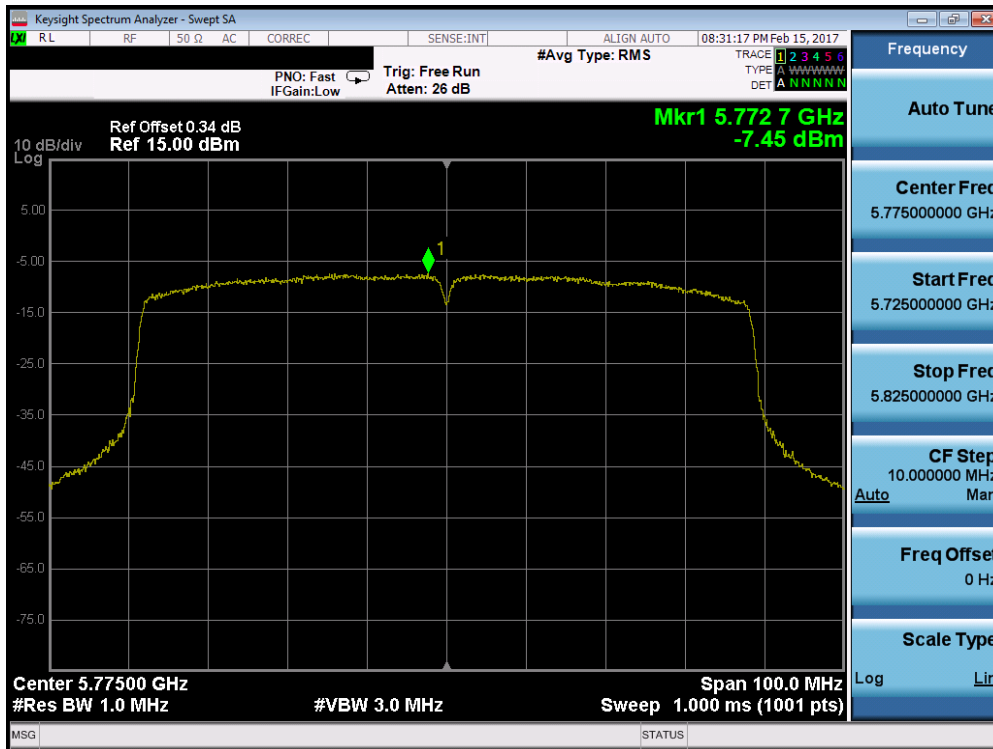


Plot 7-154. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 151)



FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-155. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



Plot 7-156. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

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Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Pass / Fail
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	-0.63	-0.98	2.21	11.0	-8.79	Pass
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	-1.34	-1.00	1.85	11.0	-9.15	Pass
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	-0.78	-1.08	2.08	11.0	-8.92	Pass
	5190	38	n (40MHz)	13.5/15 (MCS0)	-4.56	-4.80	-1.67	11.0	-12.67	Pass
	5230	46	n (40MHz)	13.5/15 (MCS0)	-4.97	-4.96	-1.96	11.0	-12.96	Pass
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-8.46	-7.98	-5.20	11.0	-16.20	Pass
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	-0.50	-1.52	2.03	11.0	-8.97	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	-0.48	-1.22	2.18	11.0	-8.82	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	-0.80	-1.28	1.98	11.0	-9.02	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	-4.35	-5.00	-1.65	11.0	-12.65	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	-4.45	-5.02	-1.71	11.0	-12.71	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-7.57	-8.18	-4.85	11.0	-15.85	Pass
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	-1.08	-0.92	2.01	11.0	-8.99	Pass
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	-0.73	-0.64	2.33	11.0	-8.67	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	-0.69	-1.17	2.08	11.0	-8.92	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	-4.88	-4.85	-1.86	11.0	-12.86	Pass
	5590	118	n (40MHz)	13.5/15 (MCS0)	-4.25	-4.47	-1.35	11.0	-12.35	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	-4.37	-4.45	-1.40	11.0	-12.40	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-8.38	-8.54	-5.45	11.0	-16.45	Pass
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-7.96	-7.88	-4.91	11.0	-15.91	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-10.64	-11.54	-8.05	11.0	-19.05	Pass

Table 7-21. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Pass / Fail
Band 3	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-3.46	-3.78	-0.61	30.0	-30.61	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-3.17	-2.64	0.11	30.0	-29.89	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-3.66	-3.20	-0.41	30.0	-30.41	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	-7.04	-7.63	-4.32	30.0	-34.32	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	-7.25	-6.70	-3.95	30.0	-33.95	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-7.74	-7.45	-4.58	30.0	-34.58	Pass

Table 7-22. Band 3 MIMO Conducted Power Spectral Density Measurements

Note:

Per KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 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 MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be -0.63 dBm for Antenna-1 and -0.98 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(-0.63 \text{ dBm} + -0.98 \text{ dBm}) = (0.86 \text{ mW} + 0.80 \text{ mW}) = 1.66 \text{ mW} = 2.21 \text{ dBm}$$

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7.6 Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.



OPERATING FREQUENCY: 5,180,000,000 Hz
 CHANNEL: 36
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,179,999,994	-6	-0.00000012
100 %		- 30	5,179,999,741	-259	-0.00000500
100 %		- 20	5,180,000,070	70	0.00000135
100 %		- 10	5,179,999,991	-9	-0.00000017
100 %		0	5,180,000,035	35	0.00000068
100 %		+ 10	5,180,000,074	74	0.00000143
100 %		+ 20	5,179,999,977	-23	-0.00000044
100 %		+ 30	5,180,000,033	33	0.00000064
100 %		+ 40	5,180,000,345	345	0.00000666
100 %		+ 50	5,179,999,889	-111	-0.00000214
BATT. ENDPOINT	3.45	+ 20	5,179,999,979	-21	-0.00000041

Table 7-23. Frequency Stability Measurements for UNII Band 1 (Ch. 36)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.



OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,259,999,981	-19	-0.00000036
100 %		- 30	5,259,999,891	-109	-0.00000207
100 %		- 20	5,260,000,089	89	0.00000169
100 %		- 10	5,260,000,080	80	0.00000152
100 %		0	5,260,000,103	103	0.00000196
100 %		+ 10	5,259,999,962	-38	-0.00000072
100 %		+ 20	5,260,000,220	220	0.00000418
100 %		+ 30	5,260,000,175	175	0.00000333
100 %		+ 40	5,259,999,998	-2	-0.00000004
100 %		+ 50	5,260,000,048	48	0.00000091
BATT. ENDPOINT		3.45	+ 20	5,259,999,979	-21

Table 7-24. Frequency Stability Measurements for UNII Band 2A (Ch. 52)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability

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The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.



OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,499,999,945	-55	-0.00000100
100 %		- 30	5,500,000,063	63	0.00000115
100 %		- 20	5,499,999,914	-86	-0.00000156
100 %		- 10	5,500,000,076	76	0.00000138
100 %		0	5,500,000,125	125	0.00000227
100 %		+ 10	5,499,999,964	-36	-0.00000065
100 %		+ 20	5,500,000,106	106	0.00000193
100 %		+ 30	5,499,999,940	-60	-0.00000109
100 %		+ 40	5,500,000,102	102	0.00000185
100 %		+ 50	5,500,000,052	52	0.00000095
BATT. ENDPOINT		3.45	+ 20	5,500,000,106	106

Table 7-25. Frequency Stability Measurements for UNII Band 2C (Ch. 100)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability

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The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.



OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,745,000,133	133	0.00000232
100 %		- 30	5,745,000,329	329	0.00000573
100 %		- 20	5,744,999,996	-4	-0.00000007
100 %		- 10	5,745,000,157	157	0.00000273
100 %		0	5,745,000,141	141	0.00000245
100 %		+ 10	5,745,000,113	113	0.00000197
100 %		+ 20	5,745,000,460	460	0.00000801
100 %		+ 30	5,744,999,870	-130	-0.00000226
100 %		+ 40	5,744,999,833	-167	-0.00000291
100 %		+ 50	5,745,000,133	133	0.00000232
BATT. ENDPOINT		3.45	+ 20	5,745,000,045	45

Table 7-26. Frequency Stability Measurements for UNII Band 3 (Ch. 149)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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7.7 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209

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 KDB 789033 D02 v01r03, 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 must not exceed the limits shown in Table 7-27 per Section 15.209.

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

Table 7-27. Radiated Limits



Test Procedures Used

KDB 789033 D02 v01r03 – 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

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.

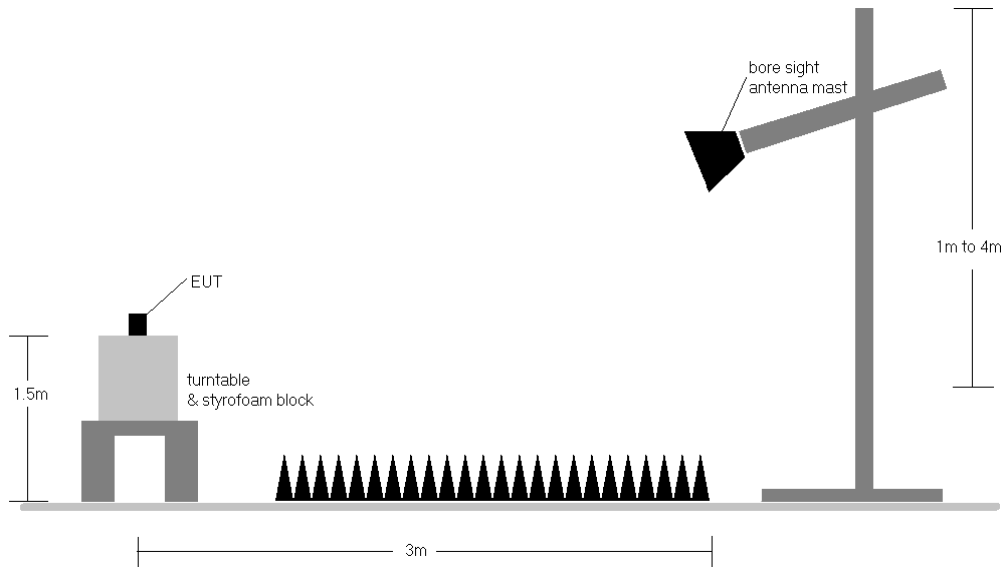






Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All radiated spurious emissions levels were measured in a radiated test setup per the guidance of KDB 789033 D02 v01r03 Section G.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 7-27.
3. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-27. 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.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested with its standard battery.
6. 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.
7. All final emissions were measured at 1 meter test distance with the application of a distance correction factor.
8. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
9. 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. Rohde & Schwarz EMC32, Version 9.15.00 automated test software was used to perform the Radiated Spurious Emissions Pre-Scan testing.
10. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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Sample Calculations



Determining Spurious Emissions Levels

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

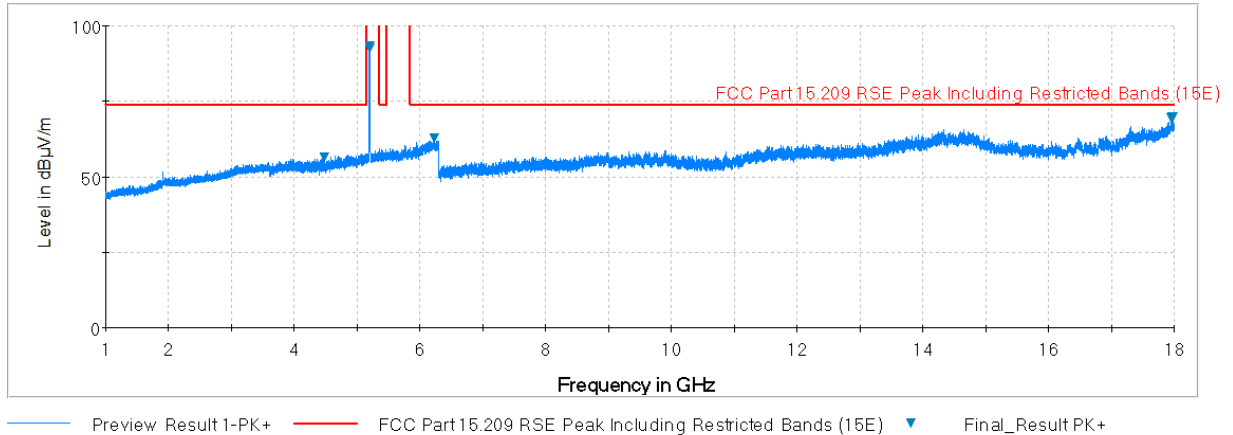
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

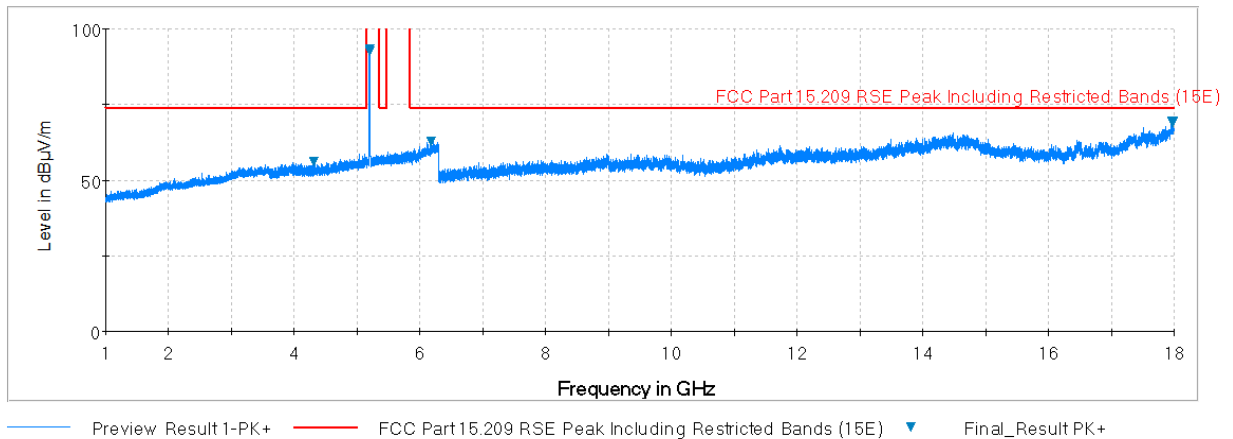
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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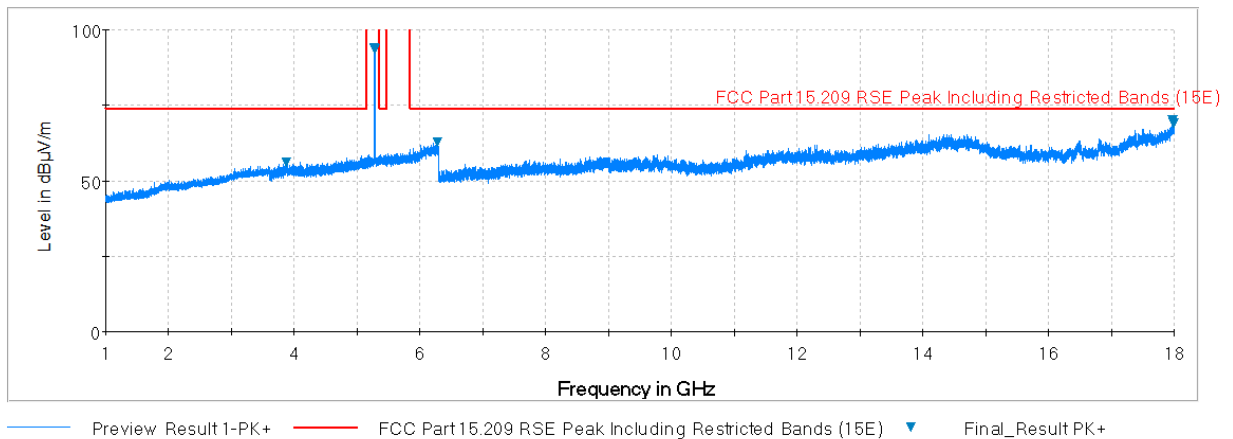
7.7.1 Antenna-1 Radiated Spurious Emission Measurements



Plot 7-157. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. H)

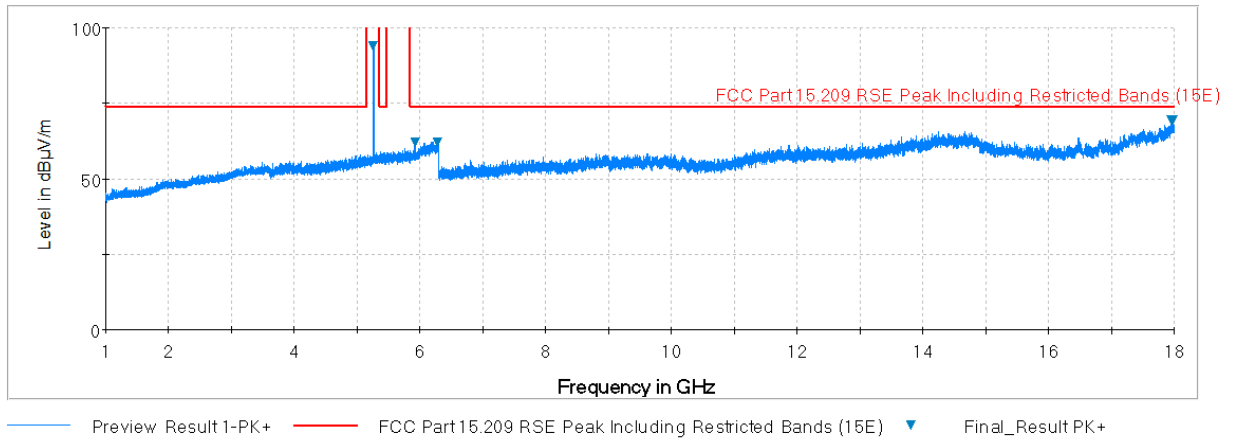


Plot 7-158. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. V)

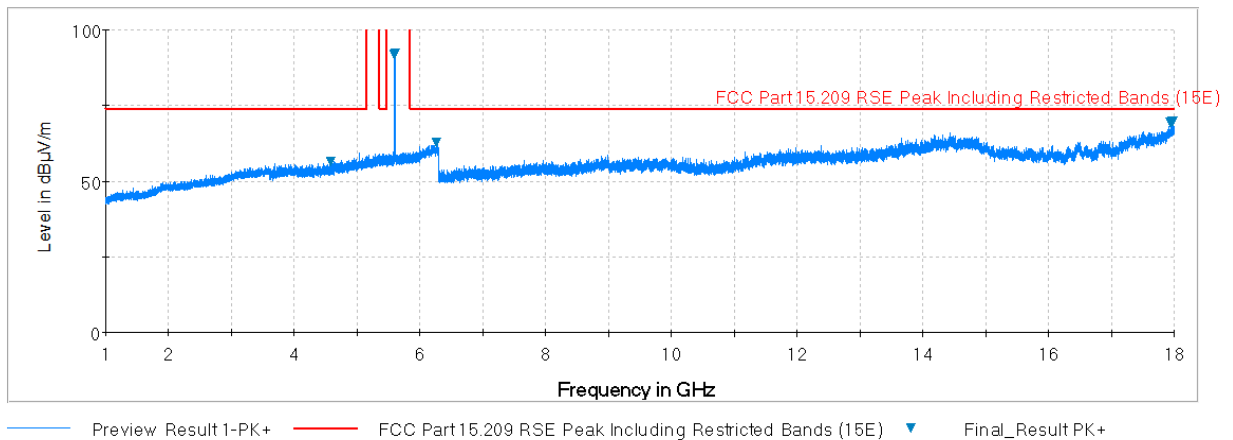


Plot 7-159. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

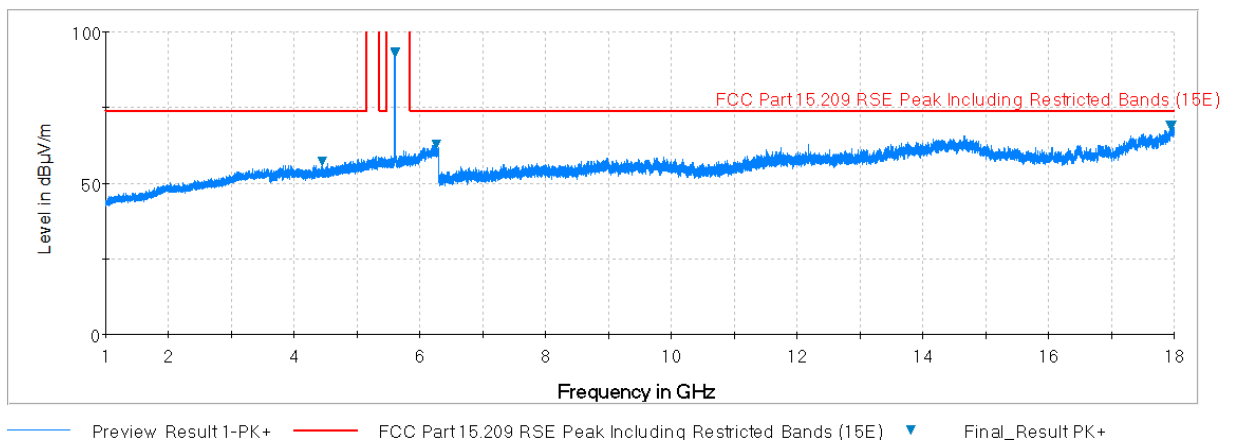
FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-160. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)

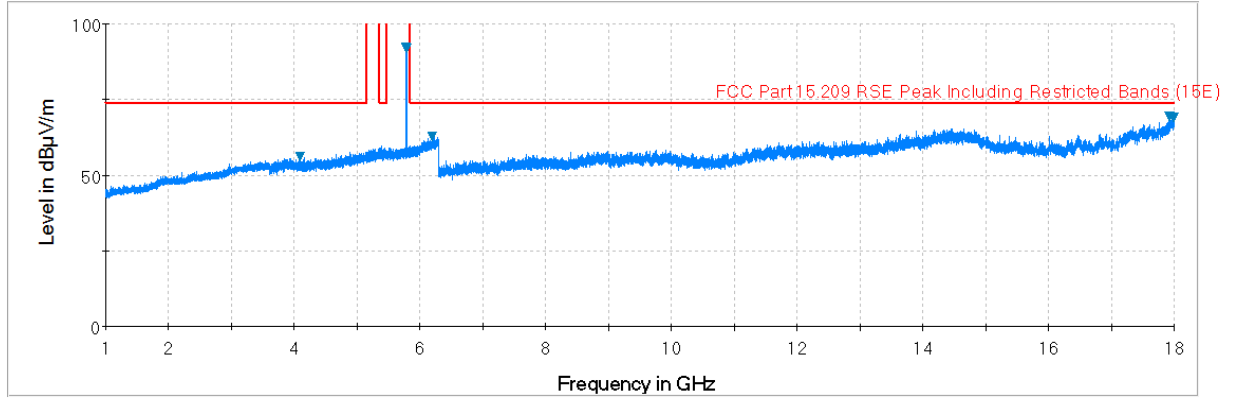


Plot 7-161. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)

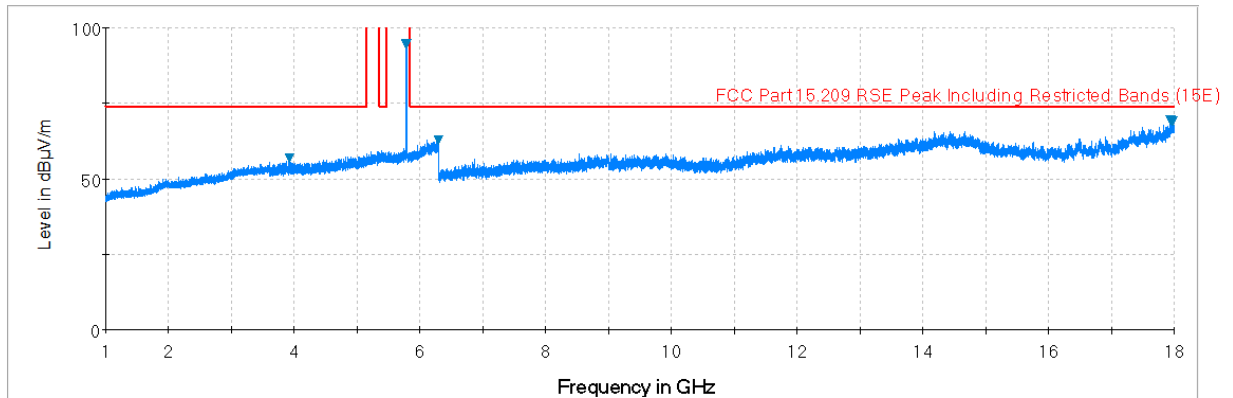


Plot 7-162. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-163. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)

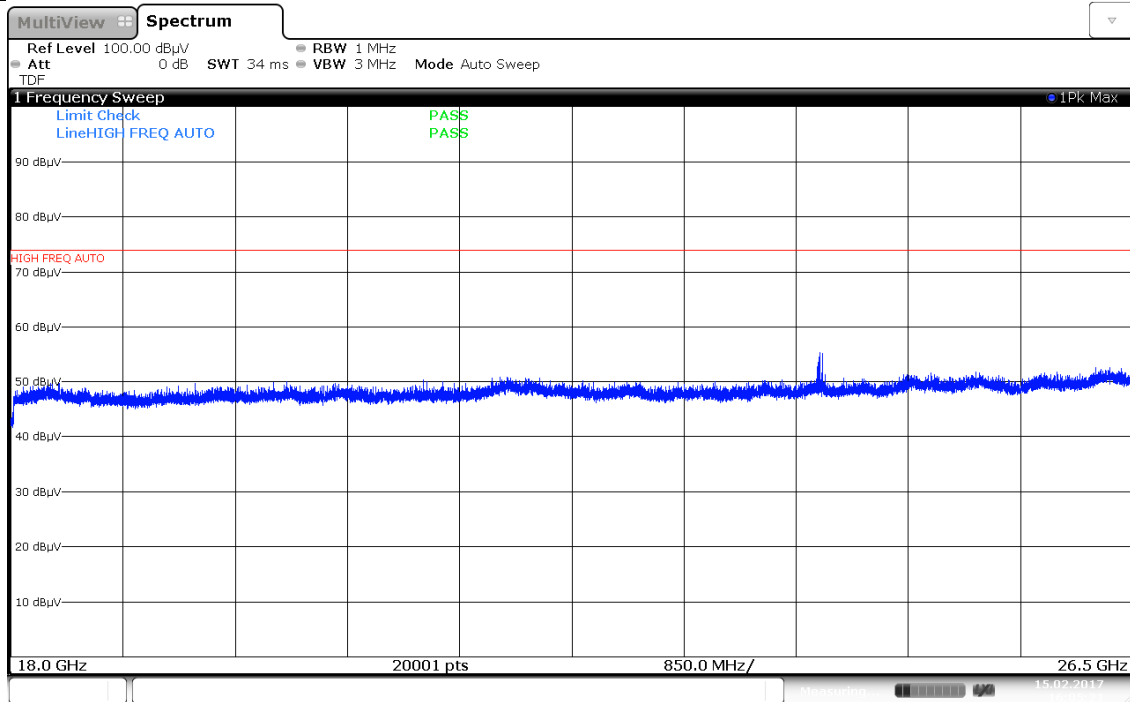


Plot 7-164. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

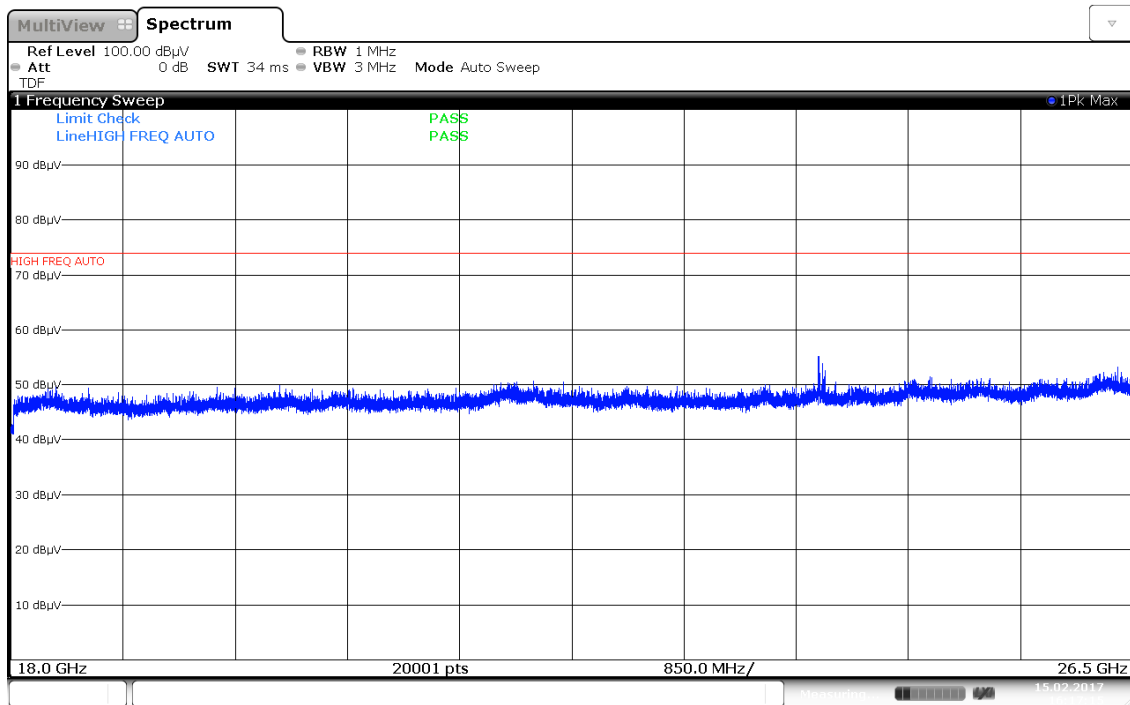
FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



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Plot 7-165. Radiated Spurious Plot 18GHz - 26.5GHz (802.11a – Ant. Pol. H)

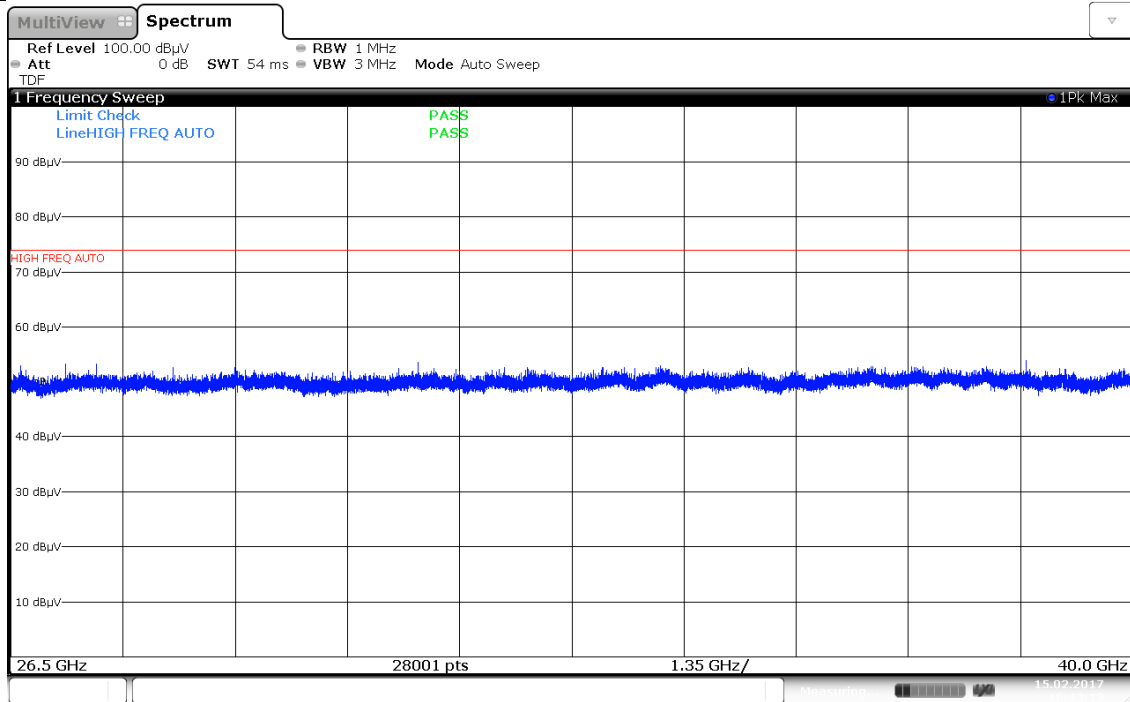


Plot 7-166. Radiated Spurious Plot above 18GHz - 26.5GHz (802.11a – Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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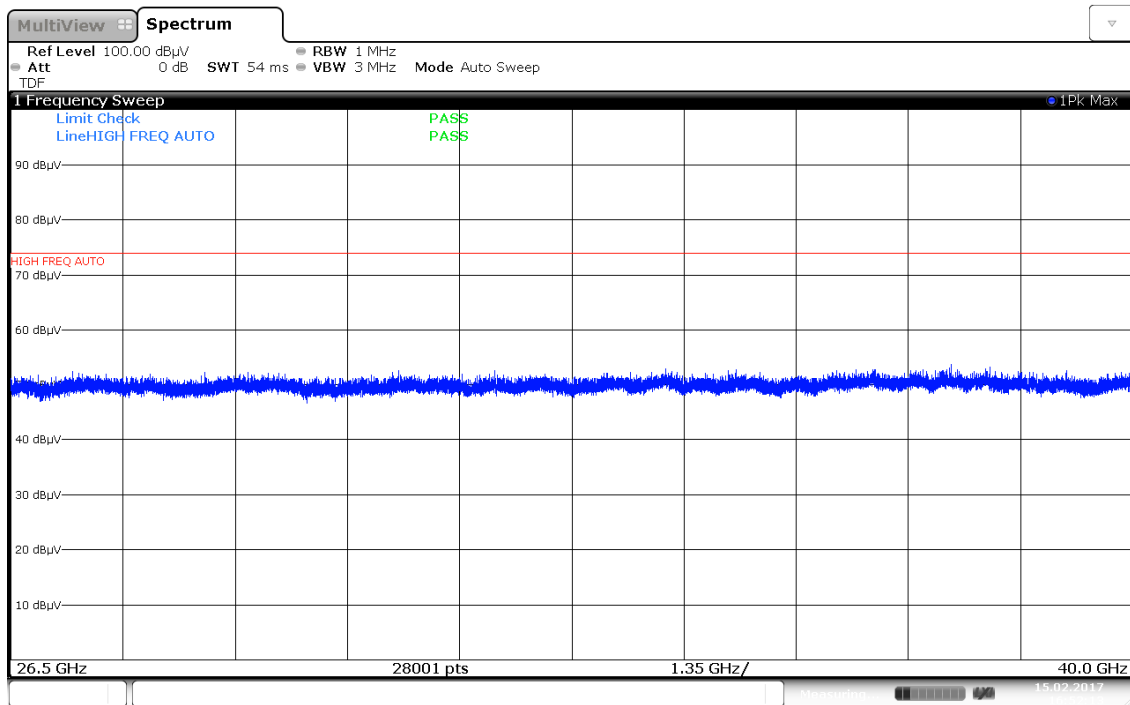
Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209



16:43:14 15.02.2017

Plot 7-167. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a – Ant. Pol. H)



16:52:14 15.02.2017

Plot 7-168. Radiated Spurious Plot above 26.5GHz - 40GHz (802.11a – Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Antenna-1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5180MHz
 Channel: 36



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-63.91	9.89	-9.54	43.43	68.20	-24.77
* 15540.00	Average	H	-	-	-76.90	12.76	-9.54	33.32	53.98	-20.66
* 15540.00	Peak	H	-	-	-63.20	12.76	-9.54	47.02	73.98	-26.96
* 20720.00	Average	H	-	-	-71.10	8.13	-9.54	34.49	53.98	-19.49
* 20720.00	Peak	H	-	-	-59.75	8.13	-9.54	45.84	73.98	-28.14
25900.00	Peak	H	-	-	-58.17	8.50	-9.54	47.79	68.20	-20.41

Table 7-28. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	-	-	-64.20	9.89	-9.54	43.15	68.20	-25.05
* 15600.00	Average	H	-	-	-76.58	13.12	-9.54	34.00	53.98	-19.98
* 15600.00	Peak	H	-	-	-62.35	13.12	-9.54	48.23	73.98	-25.75
* 20800.00	Average	H	-	-	-71.13	8.16	-9.54	34.48	53.98	-19.50
* 20800.00	Peak	H	-	-	-59.57	8.16	-9.54	46.04	73.98	-27.94
26000.00	Peak	H	-	-	-58.17	8.52	-9.54	47.81	68.20	-20.39

Table 7-29. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5240MHz
 Channel: 48



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-64.13	10.24	-9.54	43.57	68.20	-24.63
* 15720.00	Average	H	-	-	-74.88	13.45	-9.54	36.02	53.98	-17.95
* 15720.00	Peak	H	-	-	-62.34	13.45	-9.54	48.56	73.98	-25.41
* 20960.00	Average	H	-	-	-71.54	8.12	-9.54	34.04	53.98	-19.94
* 20960.00	Peak	H	-	-	-61.47	8.12	-9.54	44.11	73.98	-29.87
26200.00	Peak	H	-	-	-57.28	8.62	-9.54	48.80	68.20	-19.40

Table 7-30. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-64.75	10.21	-9.54	42.92	68.20	-25.28
* 15780.00	Average	H	-	-	-74.27	13.34	-9.54	36.53	53.98	-17.45
* 15780.00	Peak	H	-	-	-62.73	13.34	-9.54	48.07	73.98	-25.91
* 21040.00	Average	H	-	-	-71.03	8.10	-9.54	34.53	53.98	-19.45
* 21040.00	Peak	H	-	-	-61.07	8.10	-9.54	44.49	73.98	-29.49
26300.00	Peak	H	-	-	-55.77	8.76	-9.54	50.45	68.20	-17.75

Table 7-31. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5280MHz
 Channel: 56



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	-	-	-64.76	9.92	-9.54	42.61	68.20	-25.59
* 15840.00	Average	H	-	-	-74.03	12.96	-9.54	36.39	53.98	-17.59
* 15840.00	Peak	H	-	-	-62.12	12.96	-9.54	48.30	73.98	-25.68
* 21120.00	Average	H	-	-	-70.79	8.09	-9.54	34.75	53.98	-19.23
* 21120.00	Peak	H	-	-	-60.33	8.09	-9.54	45.21	73.98	-28.77
26400.00	Peak	H	-	-	-57.54	8.99	-9.54	48.91	68.20	-19.29

Table 7-32. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-76.49	9.65	-9.54	30.61	53.98	-23.37
* 10640.00	Peak	H	-	-	-64.90	9.65	-9.54	42.20	73.98	-31.78
* 15960.00	Average	H	-	-	-74.11	12.55	-9.54	35.90	53.98	-18.08
* 15960.00	Peak	H	-	-	-62.83	12.55	-9.54	47.18	73.98	-26.80
* 21280.00	Average	H	-	-	-70.38	8.07	-9.54	35.15	53.98	-18.83
* 21280.00	Peak	H	-	-	-59.66	8.07	-9.54	45.87	73.98	-28.11
26600.00	Peak	H	-	-	-47.11	-8.30	-9.54	42.05	68.20	-26.15

Table 7-33. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5500MHz
 Channel: 100



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-76.41	9.94	-9.54	30.99	53.98	-22.99
* 11000.00	Peak	H	-	-	-63.64	9.94	-9.54	43.76	73.98	-30.22
16500.00	Peak	H	-	-	-58.67	12.86	-9.54	51.65	68.20	-16.55
22000.00	Peak	H	-	-	-57.60	8.35	-9.54	48.20	68.20	-20.00
27500.00	Peak	H	-	-	-46.75	-8.93	-9.54	41.78	68.20	-26.42

Table 7-34. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-75.96	10.15	-9.54	31.65	53.98	-22.33
* 11200.00	Peak	H	-	-	-63.40	10.15	-9.54	44.21	73.98	-29.77
16800.00	Peak	H	-	-	-59.23	16.78	-9.54	55.01	68.20	-13.19
* 22400.00	Average	H	-	-	-70.64	8.19	-9.54	35.01	53.98	-18.97
* 22400.00	Peak	H	-	-	-60.04	8.19	-9.54	45.61	73.98	-28.37
28000.00	Peak	H	-	-	-45.06	-9.43	-9.54	42.97	68.20	-25.23

Table 7-35. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5720MHz
 Channel: 144



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-75.90	10.88	-9.54	32.44	53.98	-21.54
* 11440.00	Peak	H	-	-	-63.40	10.88	-9.54	44.94	73.98	-29.04
17160.00	Peak	H	-	-	-61.20	16.69	-9.54	52.94	68.20	-15.26
* 22880.00	Average	H	-	-	-70.24	8.24	-9.54	35.46	68.20	-32.74
* 22880.00	Peak	H	-	-	-59.94	8.24	-9.54	45.76	68.20	-22.44
28600.00	Peak	H	-	-	-45.78	-9.22	-9.54	42.46	68.20	-25.74

Table 7-36. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-77.44	11.06	-9.54	31.08	53.98	-22.90
* 11490.00	Peak	H	-	-	-63.31	11.06	-9.54	45.21	73.98	-28.77
17235.00	Peak	H	-	-	-60.74	17.22	-9.54	53.94	68.20	-14.26
* 22980.00	Average	H	-	-	-71.46	8.19	-9.54	34.19	53.98	-19.79
* 22980.00	Peak	H	-	-	-60.03	8.19	-9.54	45.62	73.98	-28.36
28725.00	Peak	H	-	-	-44.82	-9.45	-9.54	43.19	68.20	-25.01

Table 7-37. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5785MHz
 Channel: 157



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-77.19	10.88	-9.54	31.15	53.98	-22.83
* 11570.00	Peak	H	-	-	-62.65	10.88	-9.54	45.69	73.98	-28.29
17355.00	Peak	H	-	-	-58.54	16.71	-9.54	55.63	68.20	-12.57
23140.00	Peak	H	-	-	-60.25	8.47	-9.54	45.67	68.20	-22.53
28925.00	Peak	H	-	-	-43.94	-9.71	-9.54	43.81	68.20	-24.39

Table 7-38. Radiated Measurements

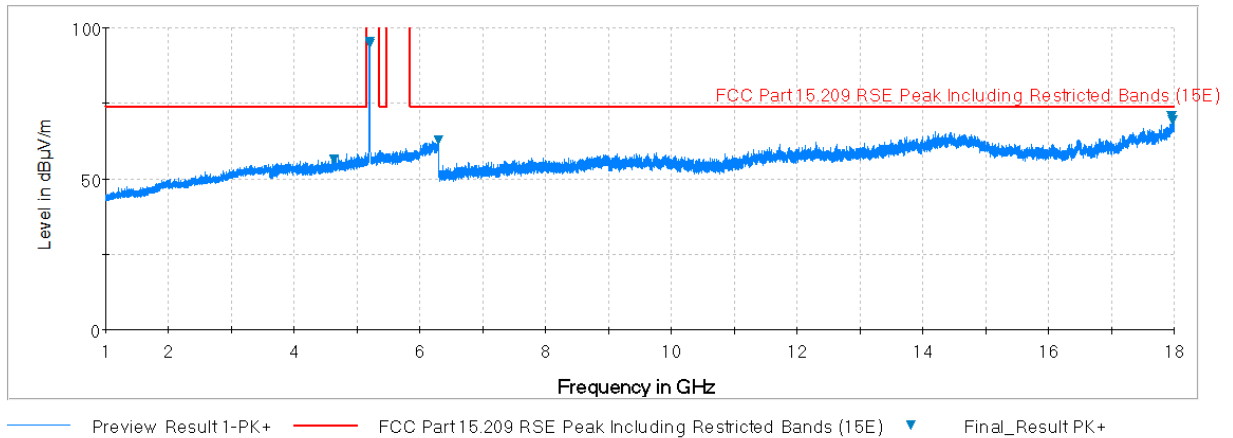
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-77.15	10.92	-9.54	31.23	53.98	-22.75
* 11650.00	Peak	H	-	-	-63.02	10.92	-9.54	45.36	73.98	-28.62
17475.00	Peak	H	-	-	-59.54	15.81	-9.54	53.73	68.20	-14.47
23300.00	Peak	H	-	-	-60.86	8.60	-9.54	45.20	68.20	-23.00
29125.00	Peak	H	-	-	-44.73	-9.93	-9.54	42.80	68.20	-25.40

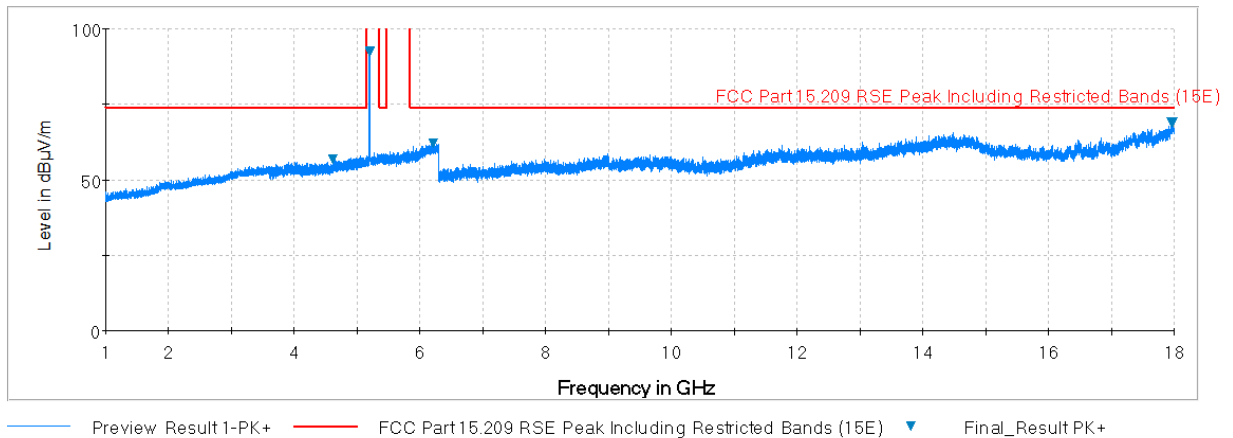
Table 7-39. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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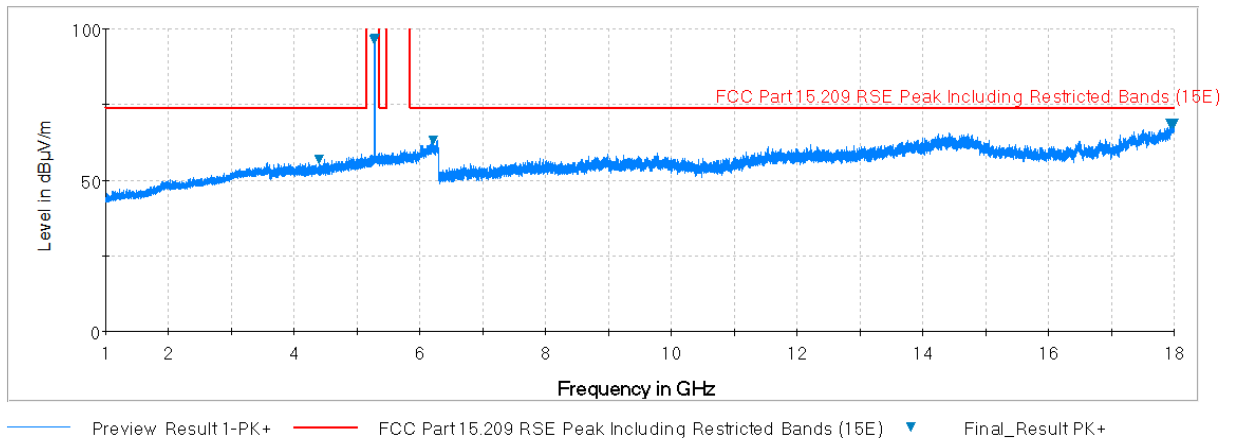
7.7.2 Antenna-2 Radiated Spurious Emission Measurements



Plot 7-169. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. H)

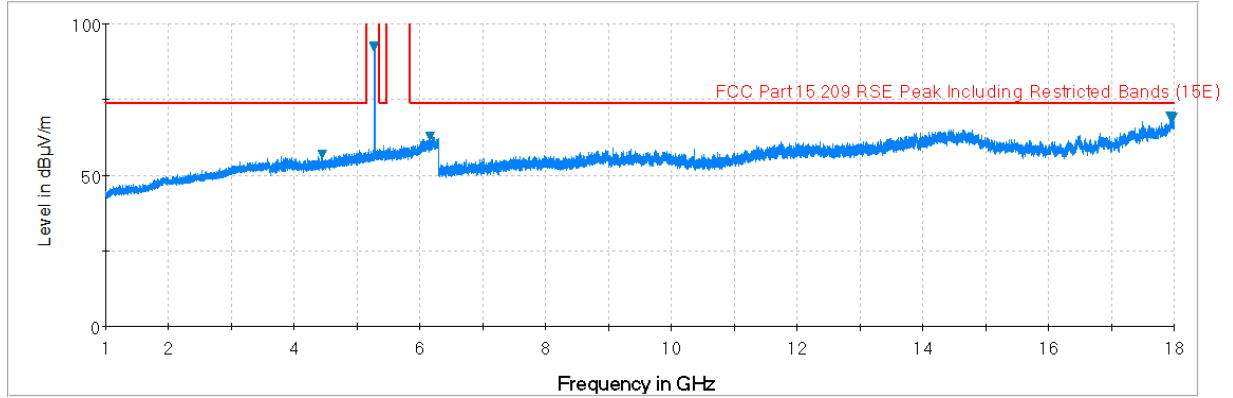


Plot 7-170. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. V)



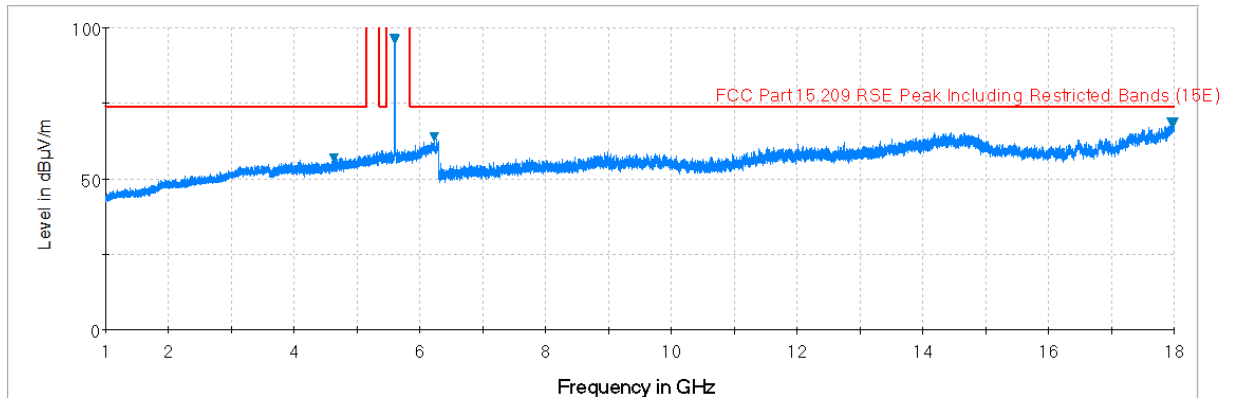
Plot 7-171. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 130 of 215



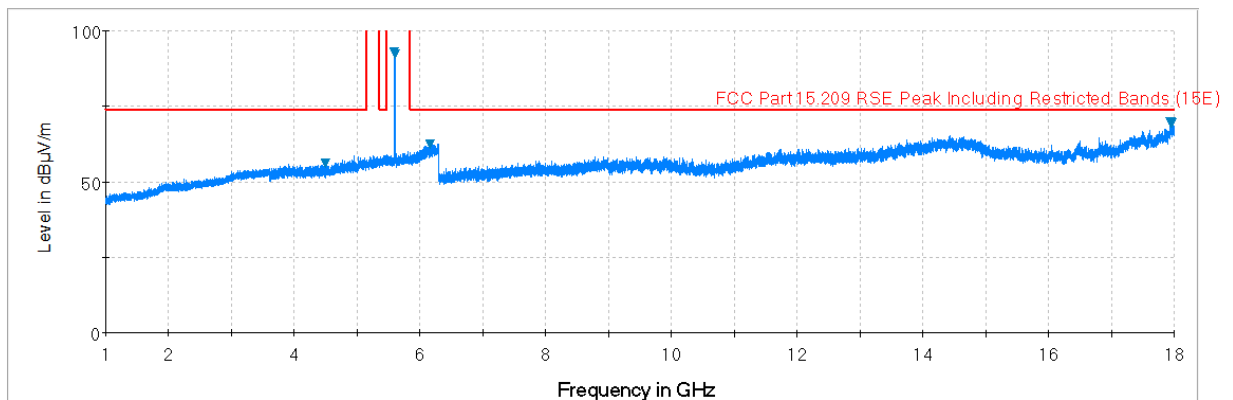
Preview Result 1-PK+ FCC Part 15.209 RSE Peak Including Restricted Bands (15E) Final_Result PK+

Plot 7-172. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)



Preview Result 1-PK+ FCC Part 15.209 RSE Peak Including Restricted Bands (15E) Final_Result PK+

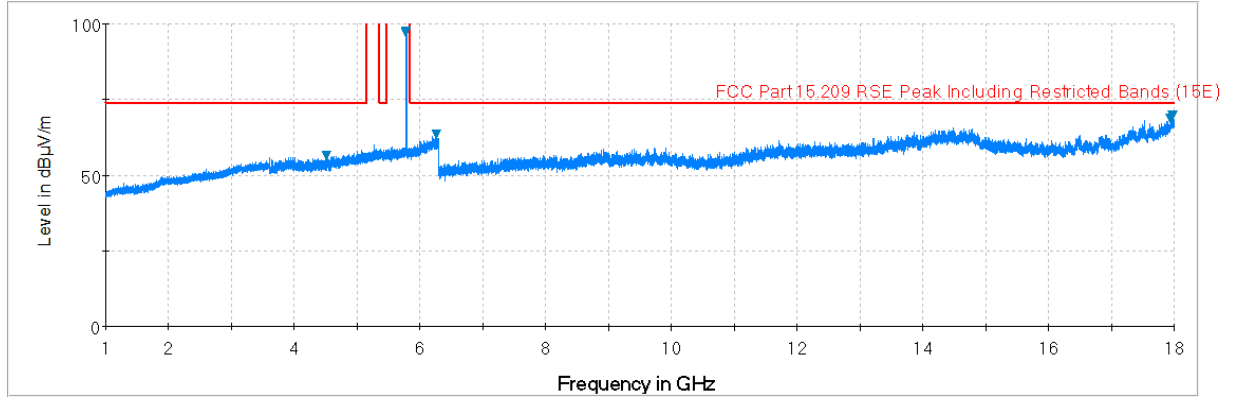
Plot 7-173. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)



Preview Result 1-PK+ FCC Part 15.209 RSE Peak Including Restricted Bands (15E) Final_Result PK+

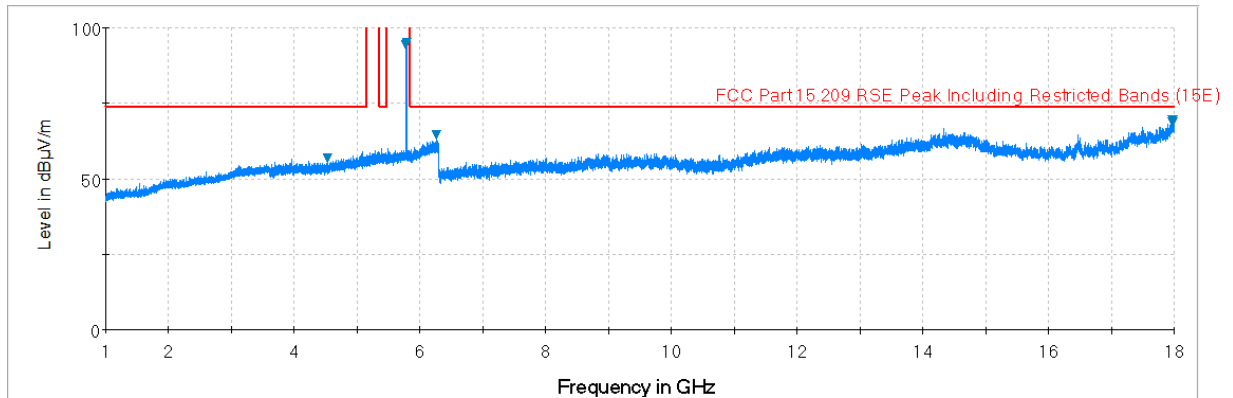
Plot 7-174. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 131 of 215



Preview Result 1-PK+ FCC Part 15.209 RSE Peak Including Restricted Bands (15E) Final_Result PK+

Plot 7-175. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)



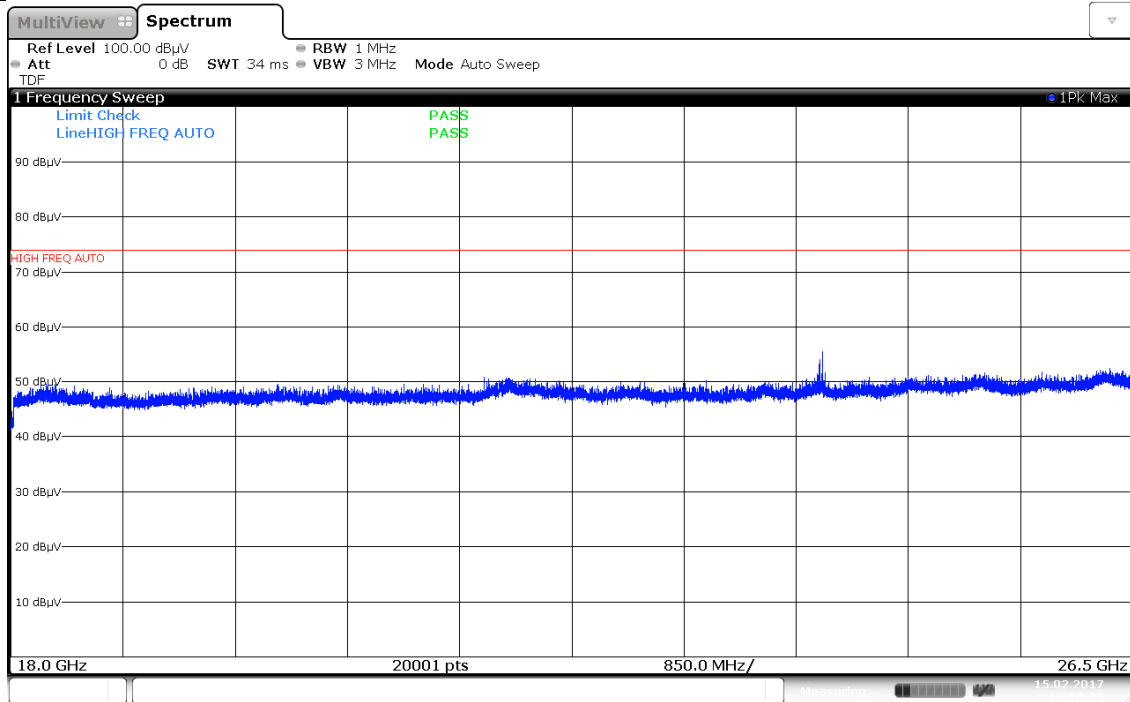
Preview Result 1-PK+ FCC Part 15.209 RSE Peak Including Restricted Bands (15E) Final_Result PK+

Plot 7-176. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 132 of 215	

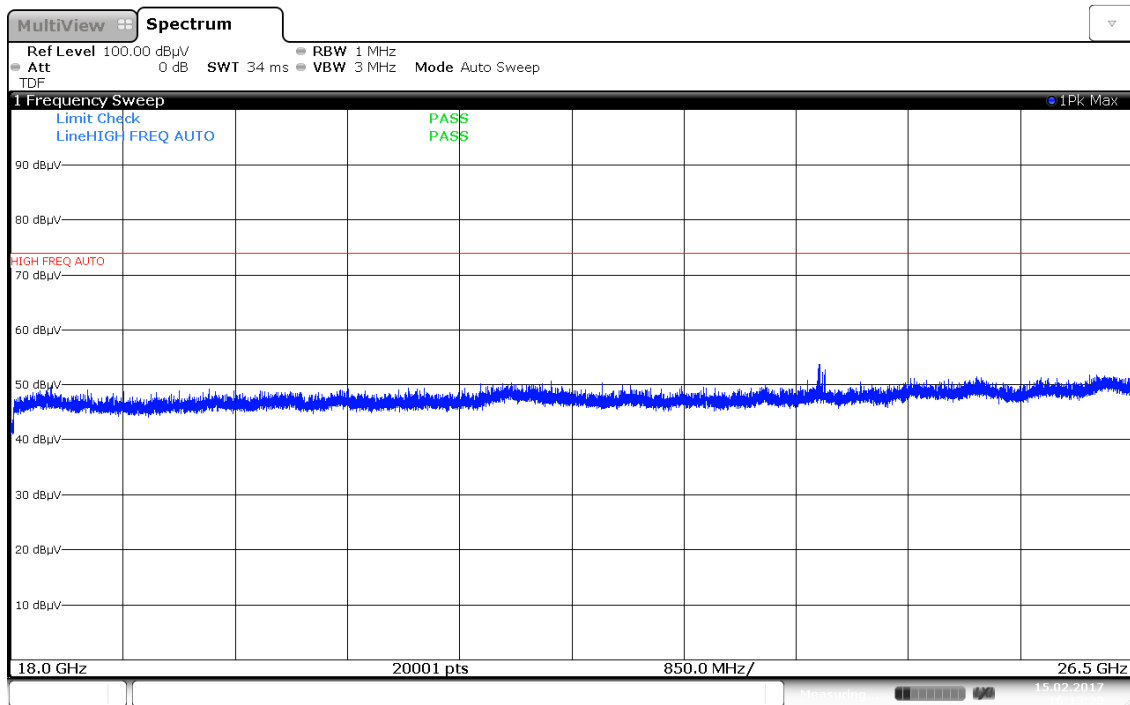
Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209



16:10:24 15.02.2017

Plot 7-177. Radiated Spurious Plot above 18GHz - 26.5GHz (802.11a – Ant. Pol. H)



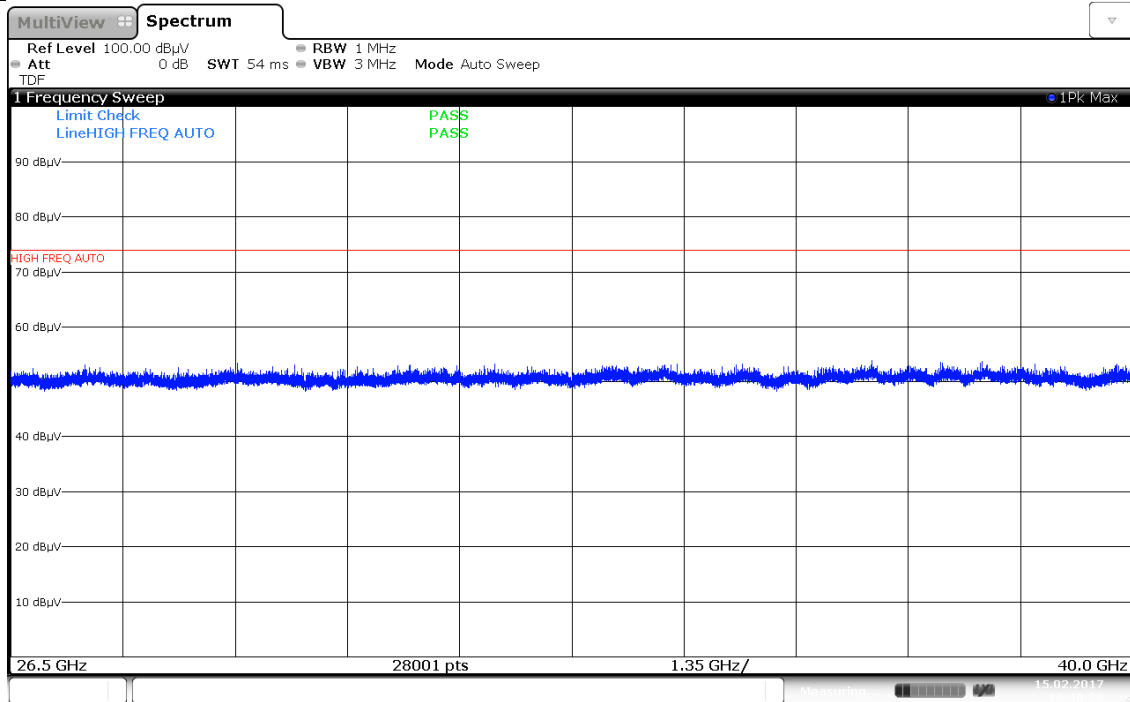
16:13:24 15.02.2017

Plot 7-178. Radiated Spurious Plot above 18GHz - 26.5GHz (802.11a – Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 133 of 215

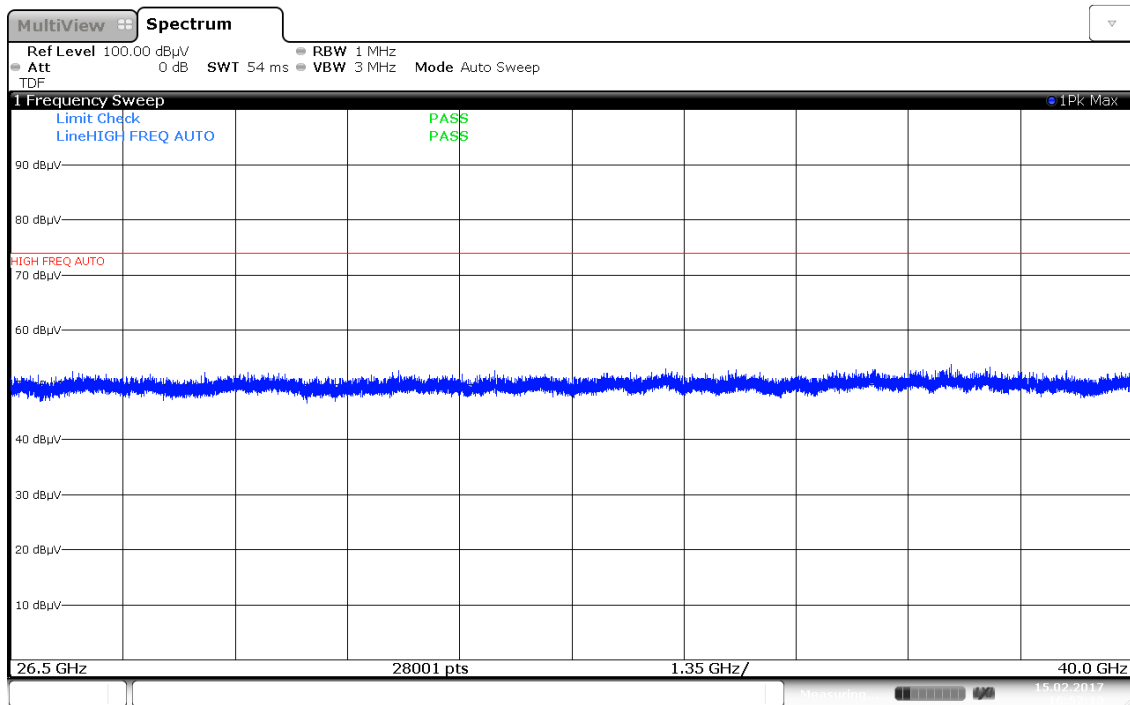
Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209



16:40:30 15.02.2017

Plot 7-179. Radiated Spurious Plot 26.5GHz - 40GHz (802.11a – Ant. Pol. H)



16:52:14 15.02.2017

Plot 7-180. Radiated Spurious Plot above 26.5GHz - 40GHz (802.11a – Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 134 of 215

Antenna-2 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5180MHz
 Channel: 36



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	-	-	-65.19	9.88	-9.54	42.15	68.20	-26.05
* 15540.00	Average	H	-	-	-76.33	12.76	-9.54	33.88	53.98	-20.10
* 15540.00	Peak	H	-	-	-65.40	12.76	-9.54	44.81	73.98	-29.17
* 20720.00	Average	H	-	-	-71.12	8.13	-9.54	34.47	53.98	-19.51
* 20720.00	Peak	H	-	-	-60.51	8.13	-9.54	45.08	73.98	-28.90
25900.00	Peak	H	-	-	-58.00	8.50	-9.54	47.96	68.20	-20.24

Table 7-40. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	-	-	-64.32	9.89	-9.54	43.03	68.20	-25.17
* 15600.00	Average	H	-	-	-75.50	13.12	-9.54	35.08	53.98	-18.90
* 15600.00	Peak	H	-	-	-63.87	13.12	-9.54	46.71	73.98	-27.27
* 20800.00	Average	H	-	-	-71.21	8.16	-9.54	34.40	53.98	-19.58
* 20800.00	Peak	H	-	-	-60.57	8.16	-9.54	45.04	73.98	-28.94
26000.00	Peak	H	-	-	-58.51	8.52	-9.54	47.47	68.20	-20.73

Table 7-41. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 135 of 215	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5240MHz
 Channel: 48



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	-	-	-64.54	10.24	-9.54	43.16	68.20	-25.04
* 15720.00	Average	H	-	-	-75.13	13.45	-9.54	35.77	53.98	-18.20
* 15720.00	Peak	H	-	-	-63.52	13.45	-9.54	47.38	73.98	-26.59
* 20960.00	Average	H	-	-	-71.41	8.12	-9.54	34.17	53.98	-19.81
* 20960.00	Peak	H	-	-	-60.38	8.12	-9.54	45.20	73.98	-28.78
26200.00	Peak	H	-	-	-57.90	8.62	-9.54	48.18	68.20	-20.02

Table 7-42. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-64.94	10.21	-9.54	42.73	68.20	-25.47
* 15780.00	Average	H	-	-	-74.12	13.34	-9.54	36.68	53.98	-17.30
* 15780.00	Peak	H	-	-	-62.59	13.34	-9.54	48.21	73.98	-25.77
* 21040.00	Average	H	-	-	-71.20	8.10	-9.54	34.36	53.98	-19.62
* 21040.00	Peak	H	-	-	-59.76	8.10	-9.54	45.80	73.98	-28.18
26300.00	Peak	H	-	-	-56.81	8.76	-9.54	49.41	68.20	-18.79

Table 7-43. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 136 of 215	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5280MHz
 Channel: 56



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	-	-	-64.55	9.92	-9.54	42.82	68.20	-25.38
* 15840.00	Average	H	-	-	-73.95	12.96	-9.54	36.47	53.98	-17.51
* 15840.00	Peak	H	-	-	-62.41	12.96	-9.54	48.01	73.98	-25.97
* 21120.00	Average	H	-	-	-70.81	8.09	-9.54	34.73	53.98	-19.25
* 21120.00	Peak	H	-	-	-60.43	8.09	-9.54	45.11	73.98	-28.87
26400.00	Peak	H	-	-	-57.69	8.99	-9.54	48.76	68.20	-19.44

Table 7-44. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-76.53	9.65	-9.54	30.57	53.98	-23.41
* 10640.00	Peak	H	-	-	-65.13	9.65	-9.54	41.97	73.98	-32.01
* 15960.00	Average	H	-	-	-73.99	12.55	-9.54	36.02	53.98	-17.96
* 15960.00	Peak	H	-	-	-62.50	12.55	-9.54	47.51	73.98	-26.47
* 21280.00	Average	H	-	-	-70.48	8.07	-9.54	35.05	53.98	-18.93
* 21280.00	Peak	H	-	-	-59.35	8.07	-9.54	46.18	73.98	-27.80
26600.00	Peak	H	-	-	-46.71	-8.30	-9.54	42.45	68.20	-25.75

Table 7-45. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 137 of 215	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5500MHz
 Channel: 100



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-76.91	9.94	-9.54	30.49	53.98	-23.49
* 11000.00	Peak	H	-	-	-65.17	9.94	-9.54	42.23	73.98	-31.75
16500.00	Peak	H	-	-	-59.51	12.86	-9.54	50.81	68.20	-17.39
22000.00	Peak	H	-	-	-58.85	8.35	-9.54	46.95	68.20	-21.25
27500.00	Peak	H	-	-	-46.16	-8.93	-9.54	42.37	68.20	-25.83

Table 7-46. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-76.48	10.15	-9.54	31.13	53.98	-22.85
* 11200.00	Peak	H	-	-	-65.68	10.15	-9.54	41.93	73.98	-32.05
16800.00	Peak	H	-	-	-61.39	16.78	-9.54	52.85	68.20	-15.35
* 22400.00	Average	H	-	-	-70.49	8.19	-9.54	35.16	53.98	-18.82
* 22400.00	Peak	H	-	-	-60.13	8.19	-9.54	45.52	73.98	-28.46
28000.00	Peak	H	-	-	-45.67	-9.43	-9.54	42.36	68.20	-25.84

Table 7-47. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 138 of 215	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5720MHz
 Channel: 144



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-76.40	10.88	-9.54	31.94	53.98	-22.04
* 11440.00	Peak	H	-	-	-64.82	10.88	-9.54	43.52	73.98	-30.46
17160.00	Peak	H	-	-	-62.16	16.69	-9.54	51.98	68.20	-16.22
* 22880.00	Average	H	-	-	-71.43	8.24	-9.54	34.27	53.98	-19.71
* 22880.00	Peak	H	-	-	-59.94	8.24	-9.54	45.76	73.98	-28.22
28600.00	Peak	H	-	-	-45.78	-9.22	-9.54	42.46	68.20	-25.74

Table 7-48. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-77.62	11.06	-9.54	30.90	53.98	-23.08
* 11490.00	Peak	H	-	-	-64.55	11.06	-9.54	43.97	73.98	-30.01
17235.00	Peak	H	-	-	-65.77	17.22	-9.54	48.91	68.20	-19.29
* 22980.00	Average	H	-	-	-71.49	8.19	-9.54	34.16	53.98	-19.82
* 22980.00	Peak	H	-	-	-61.11	8.19	-9.54	44.54	73.98	-29.44
28725.00	Peak	H	-	-	-45.11	-9.45	-9.54	42.90	68.20	-25.30

Table 7-49. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 139 of 215	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5785MHz
 Channel: 157



Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-77.33	10.88	-9.54	31.01	53.98	-22.97
* 11570.00	Peak	H	-	-	-65.36	10.88	-9.54	42.98	73.98	-31.00
17355.00	Peak	H	-	-	-65.77	16.71	-9.54	48.40	68.20	-19.80
23140.00	Peak	H	-	-	-60.46	8.47	-9.54	45.46	68.20	-22.74
28925.00	Peak	H	-	-	-44.46	-9.71	-9.54	43.29	68.20	-24.91

Table 7-50. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 Meter
 Operating Frequency: 5825MHz
 Channel: 165

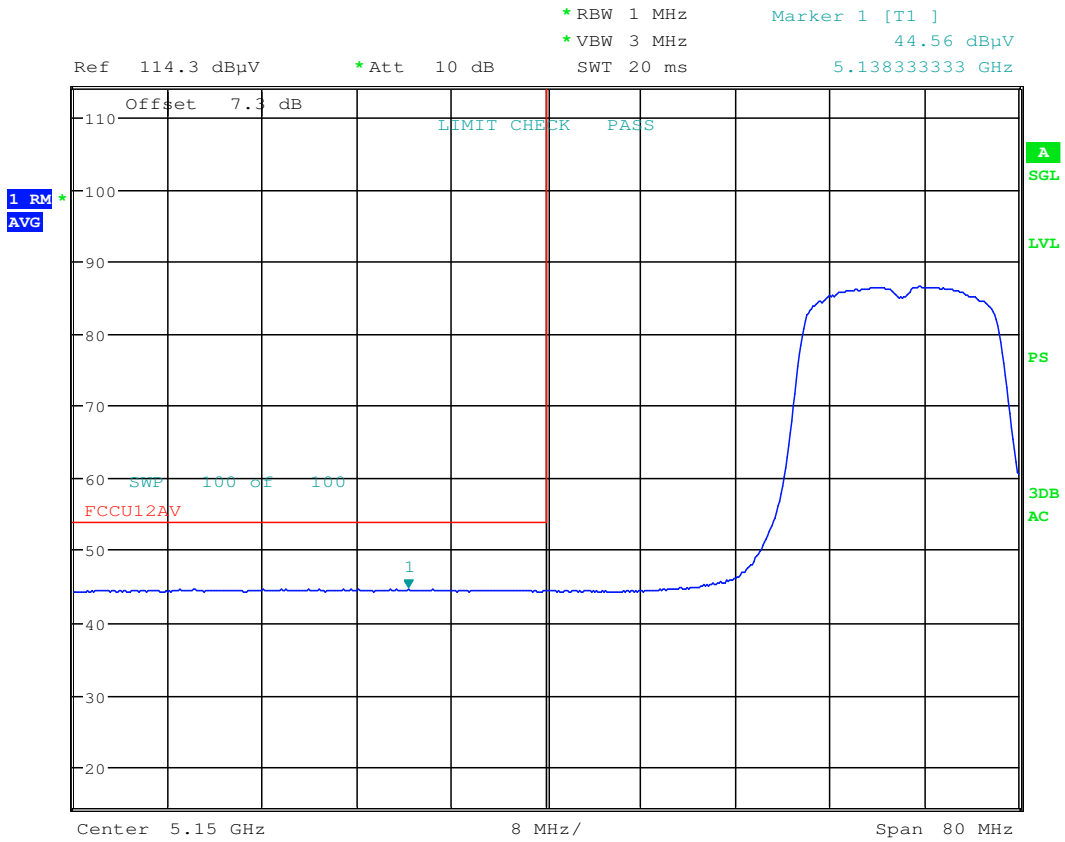
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-77.15	10.92	-9.54	31.23	53.98	-22.75
* 11650.00	Peak	H	-	-	-62.52	10.92	-9.54	45.86	73.98	-28.12
17475.00	Peak	H	-	-	-59.69	15.81	-9.54	53.58	68.20	-14.62
23300.00	Peak	H	-	-	-59.76	8.60	-9.54	46.30	68.20	-21.90
29125.00	Peak	H	-	-	-43.65	-9.93	-9.54	43.88	68.20	-24.32

Table 7-51. Radiated Measurements

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 140 of 215	

7.7.3 Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36



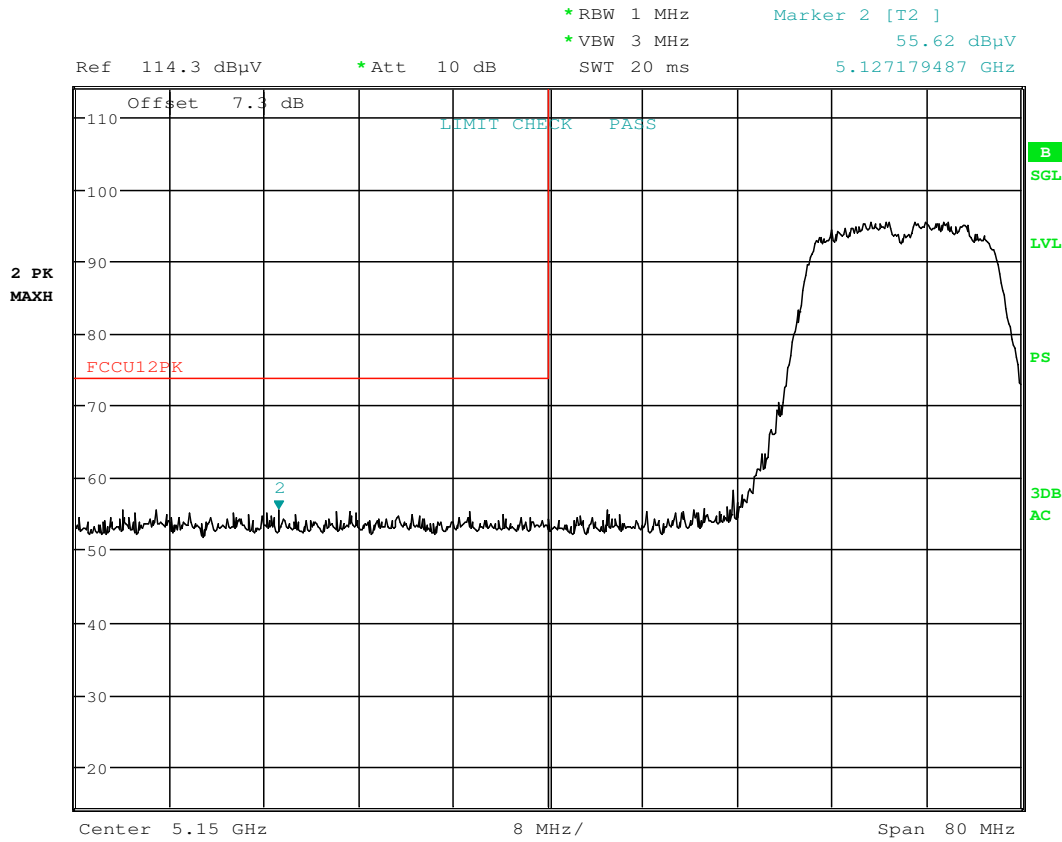
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Plot 7-181. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 141 of 215	

Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 12:41:03

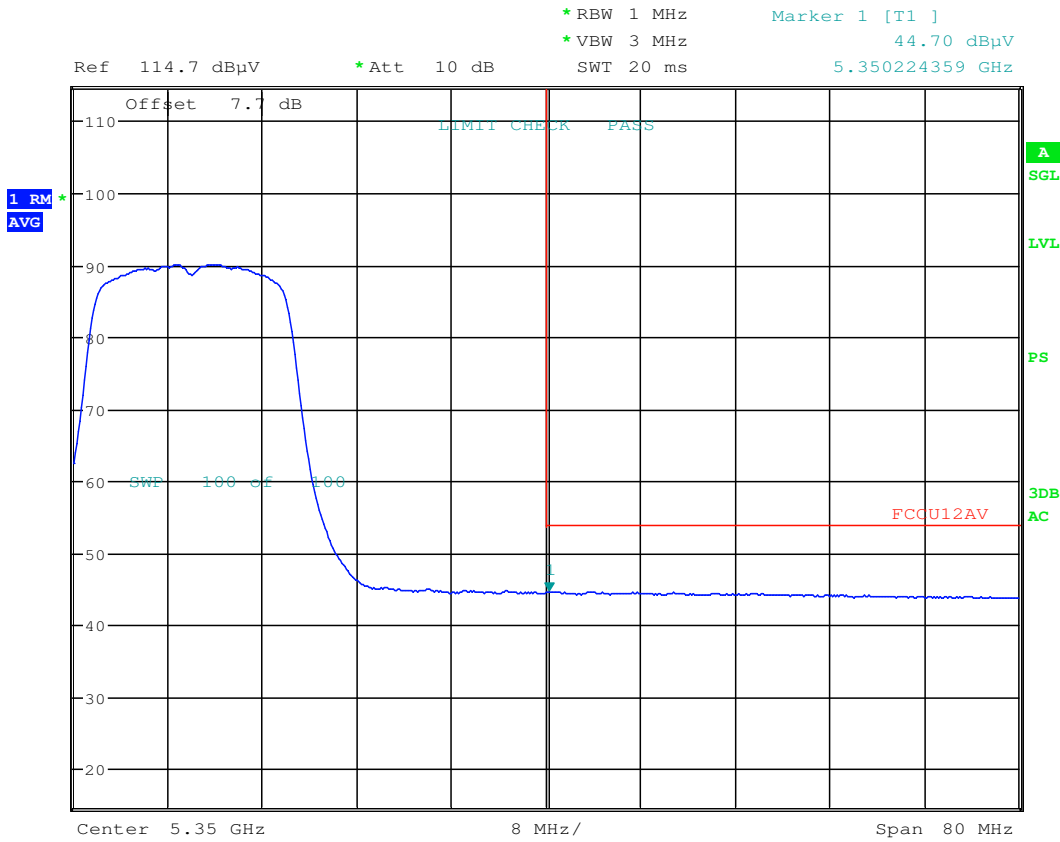
Plot 7-182. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 142 of 215	

Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



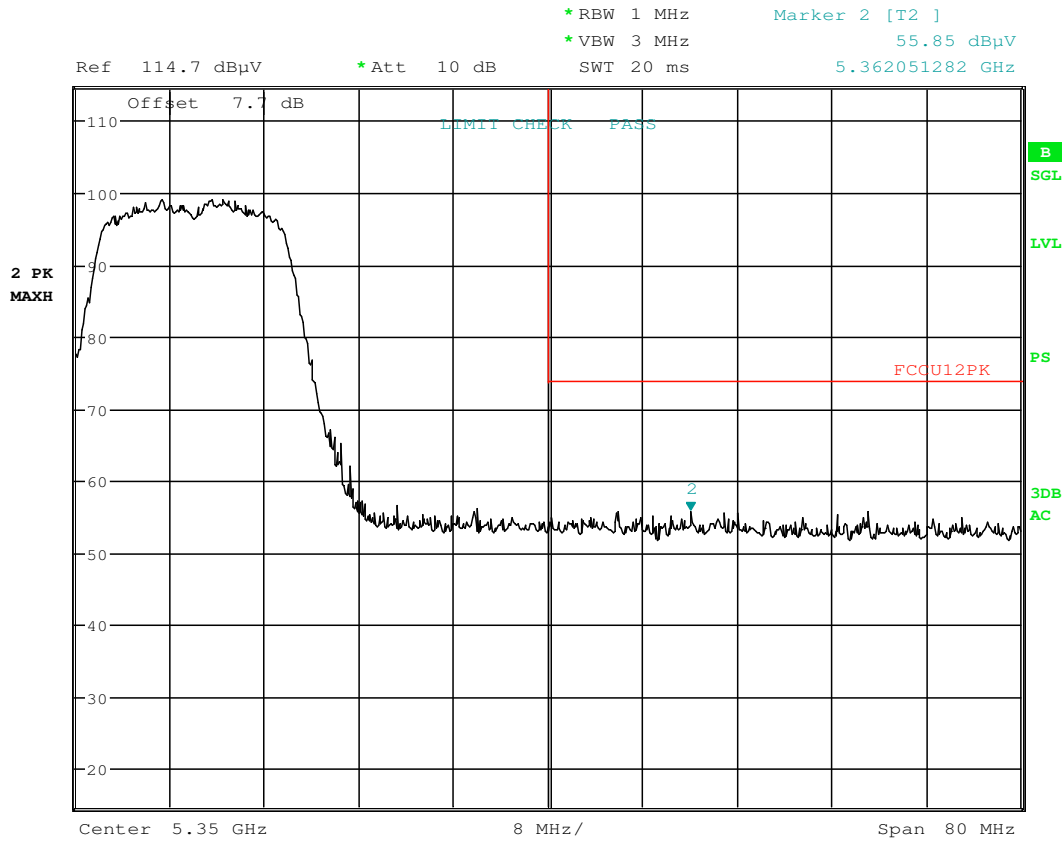
Date: 4.FEB.2017 12:54:10

Plot 7-183. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 143 of 215

Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 12:54:46

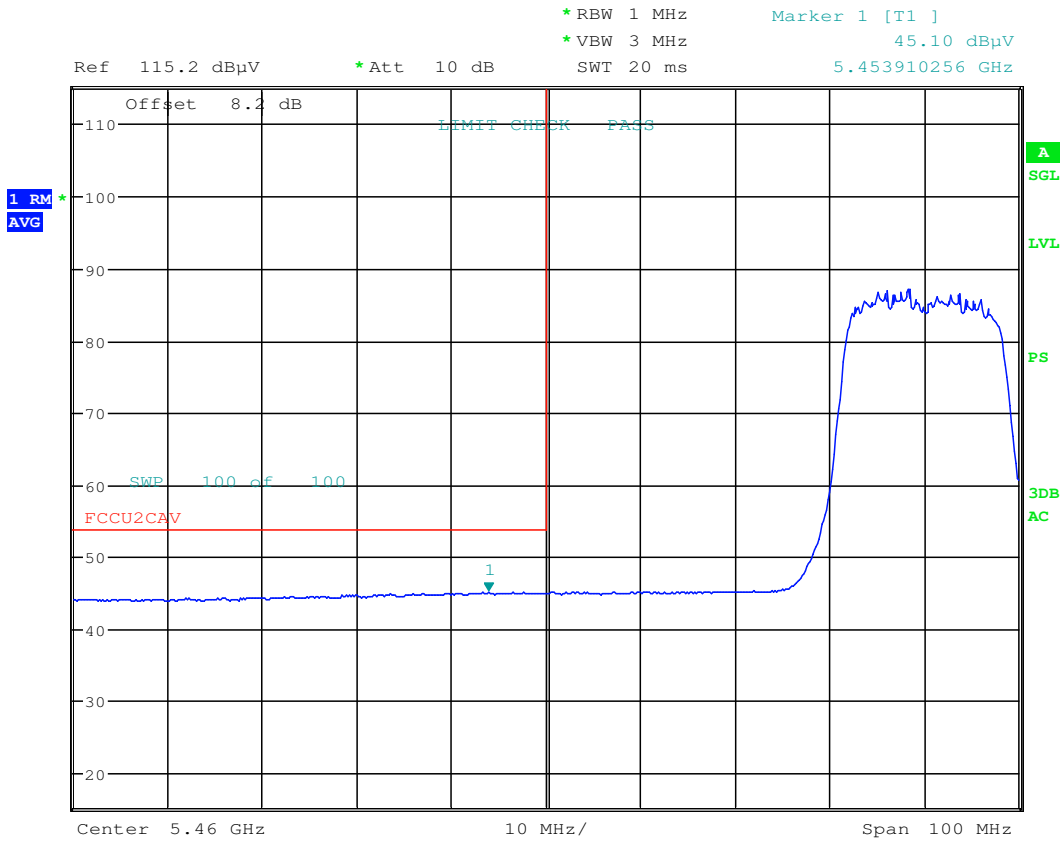
Plot 7-184. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 144 of 215	

Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



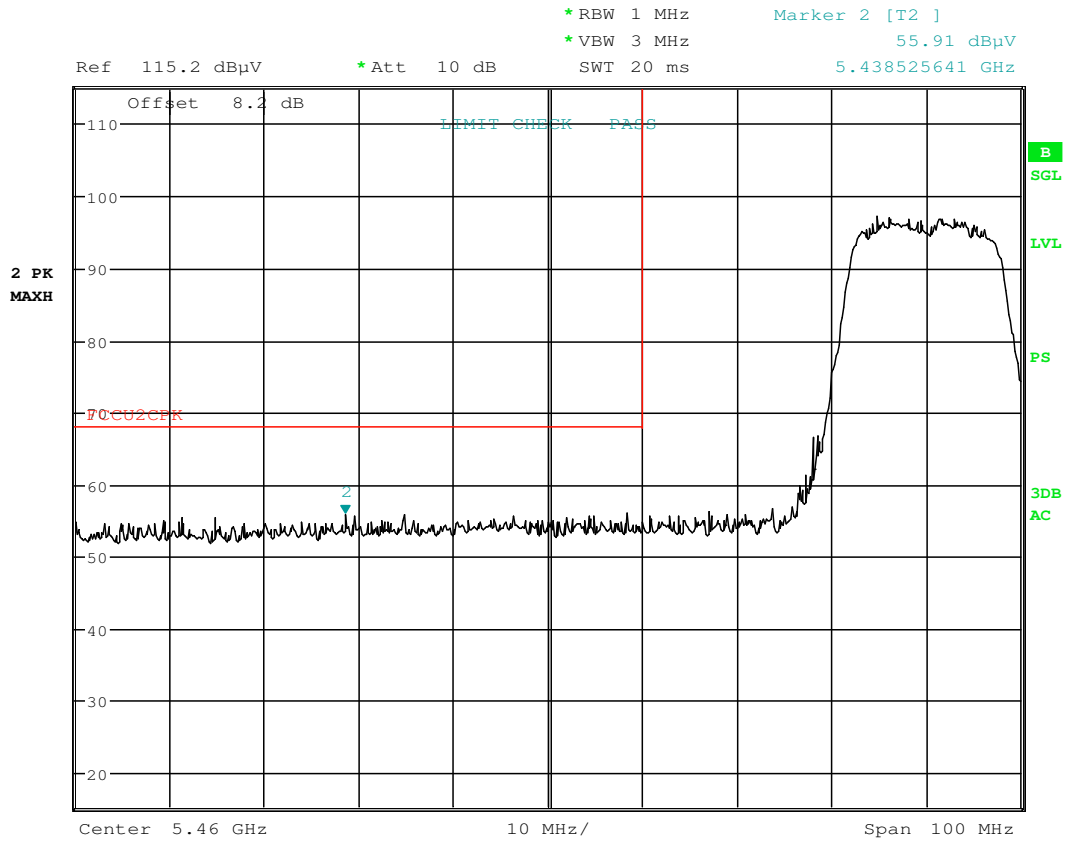
Date: 4.FEB.2017 13:03:24

Plot 7-185. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 145 of 215



Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:03:34

Plot 7-186. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 146 of 215	

Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

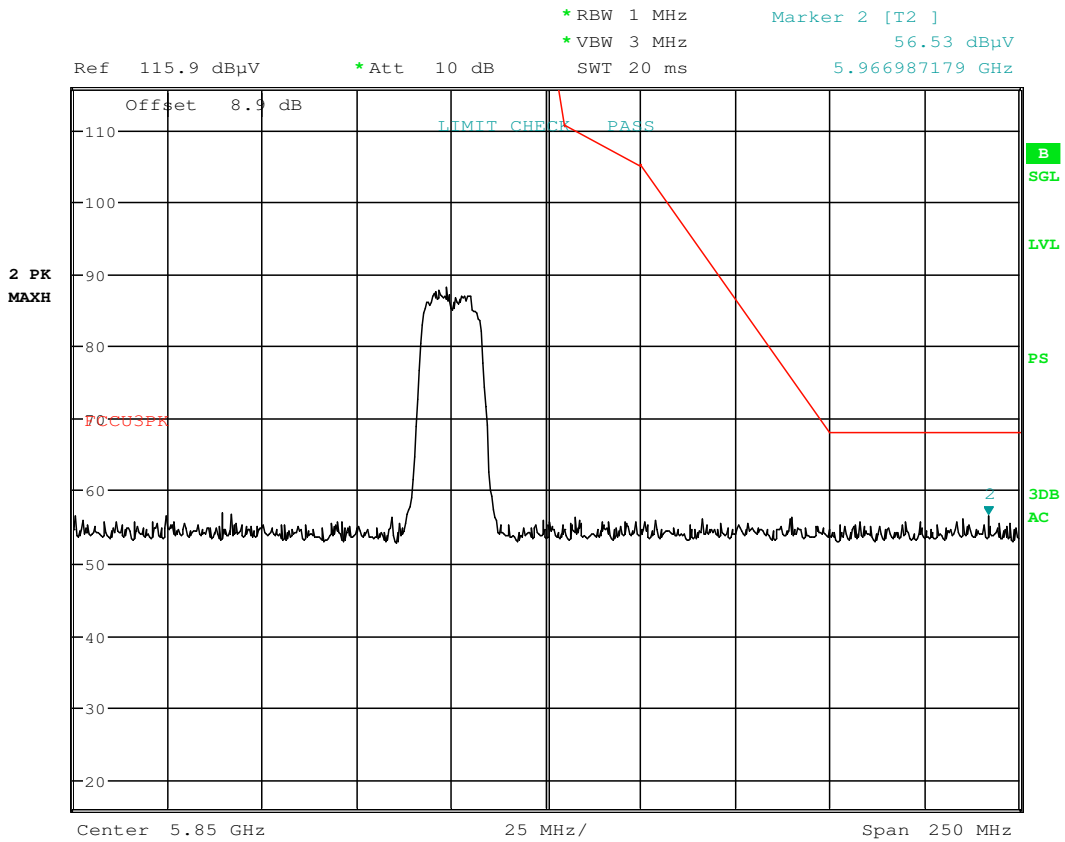
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 4.FEB.2017 13:08:50

Plot 7-187. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 147 of 215

7.7.4 Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

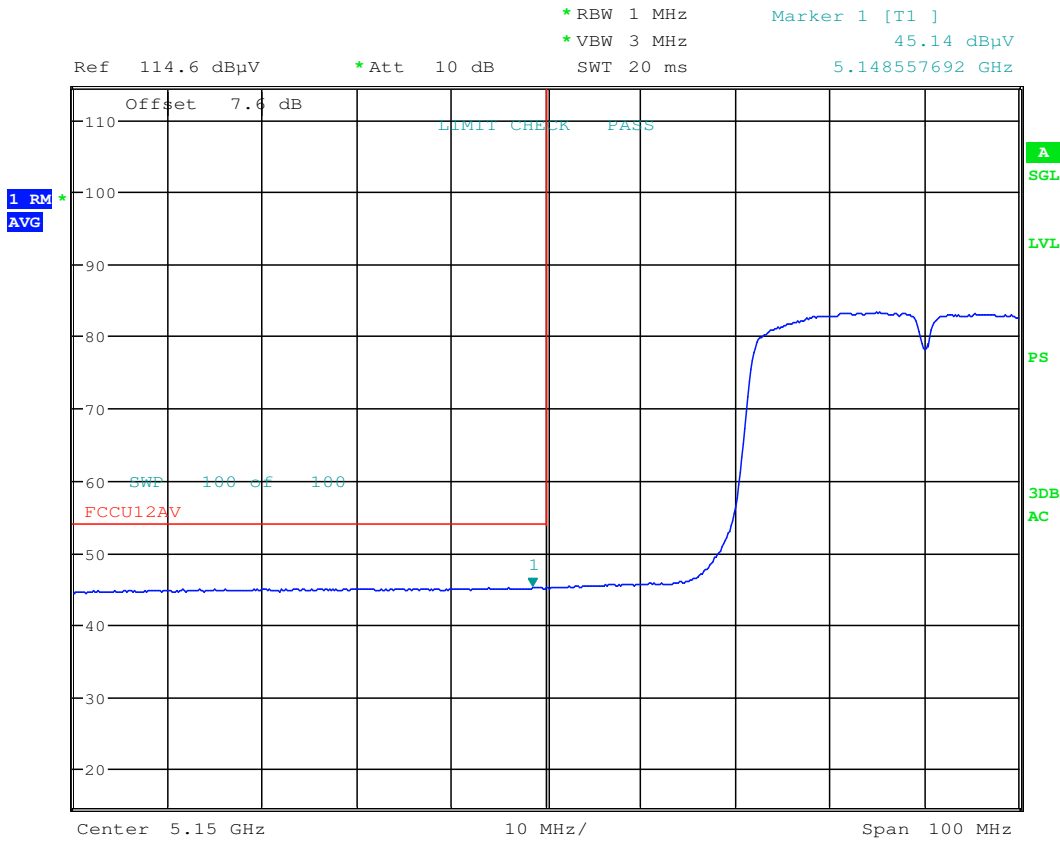
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



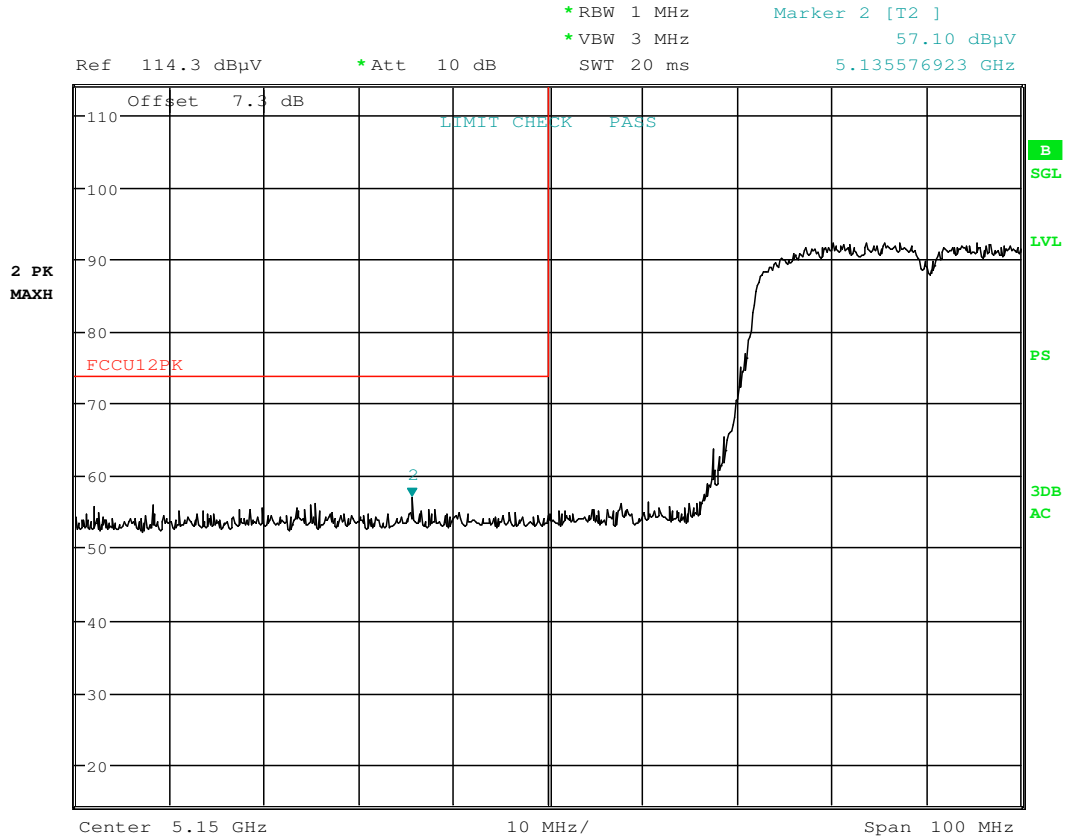
Date: 4.FEB.2017 12:44:48

Plot 7-188. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 148 of 215	

Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



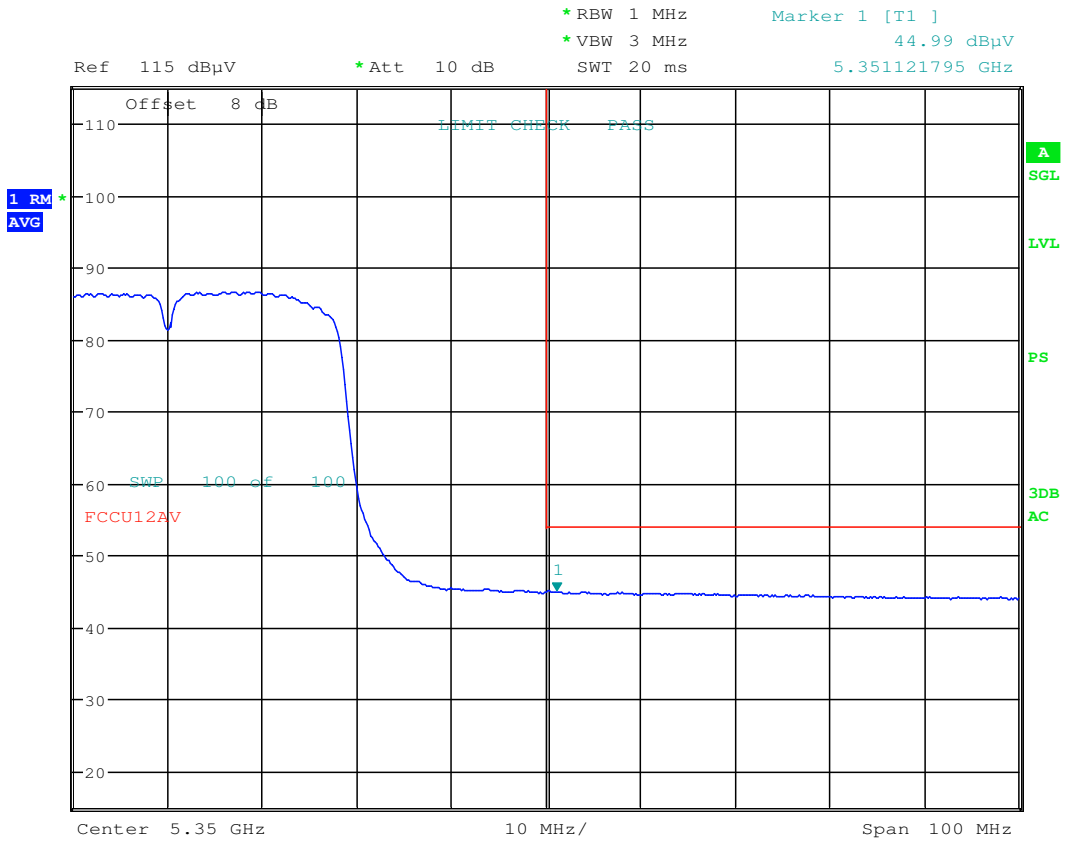
Date: 4.FEB.2017 12:45:06

Plot 7-189. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 149 of 215	

Antenna-1 Radiated Band Edge Measurements (40MHz BW)
§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



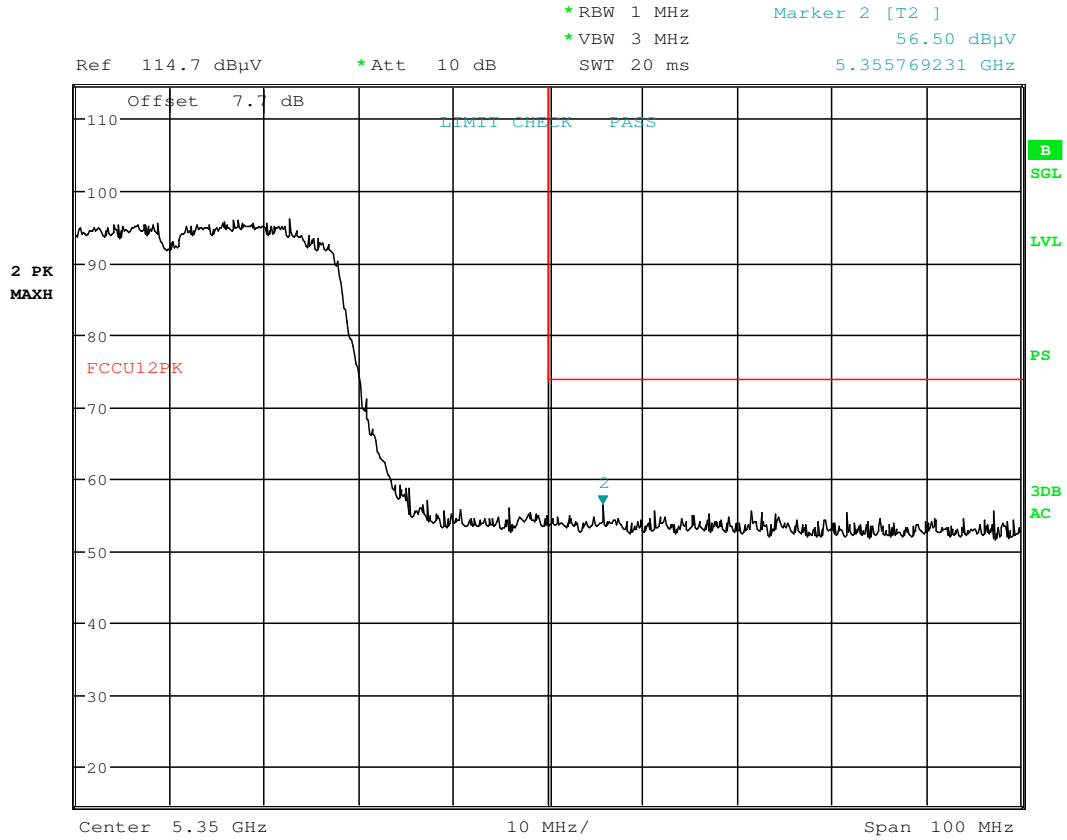
Date: 4.FEB.2017 12:55:53

Plot 7-190. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 150 of 215

Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 12:56:08

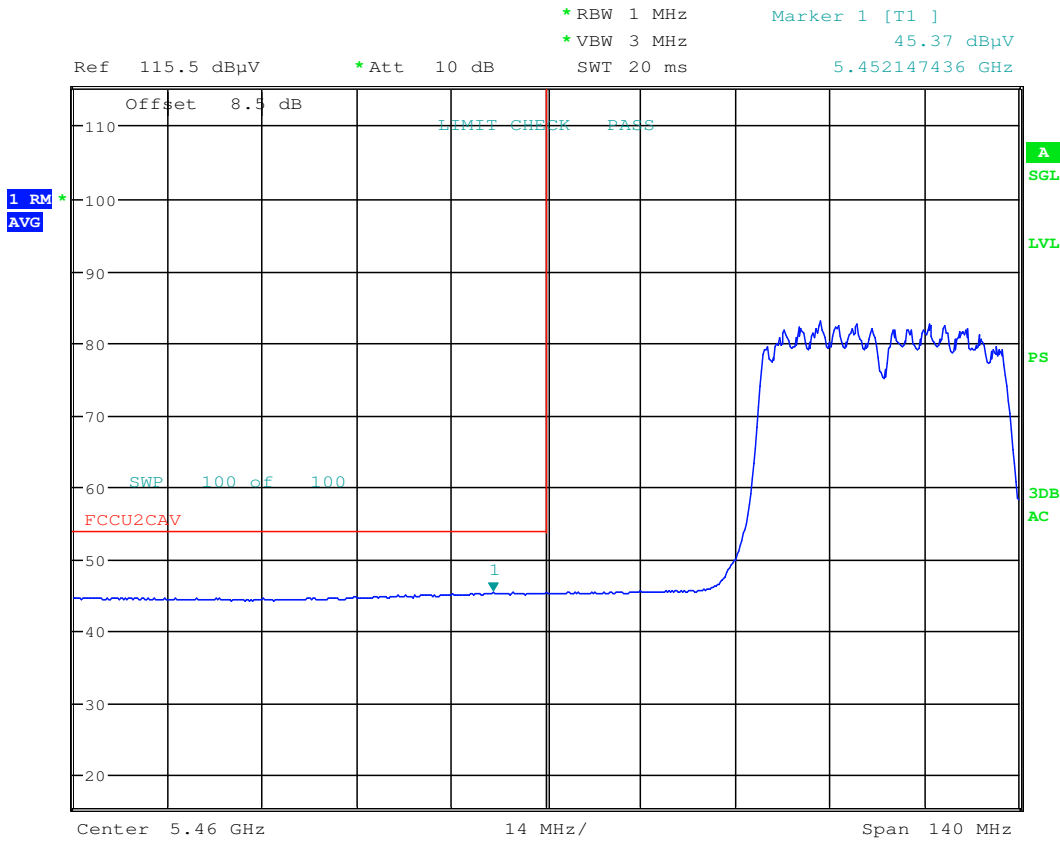
Plot 7-191. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 151 of 215	

Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



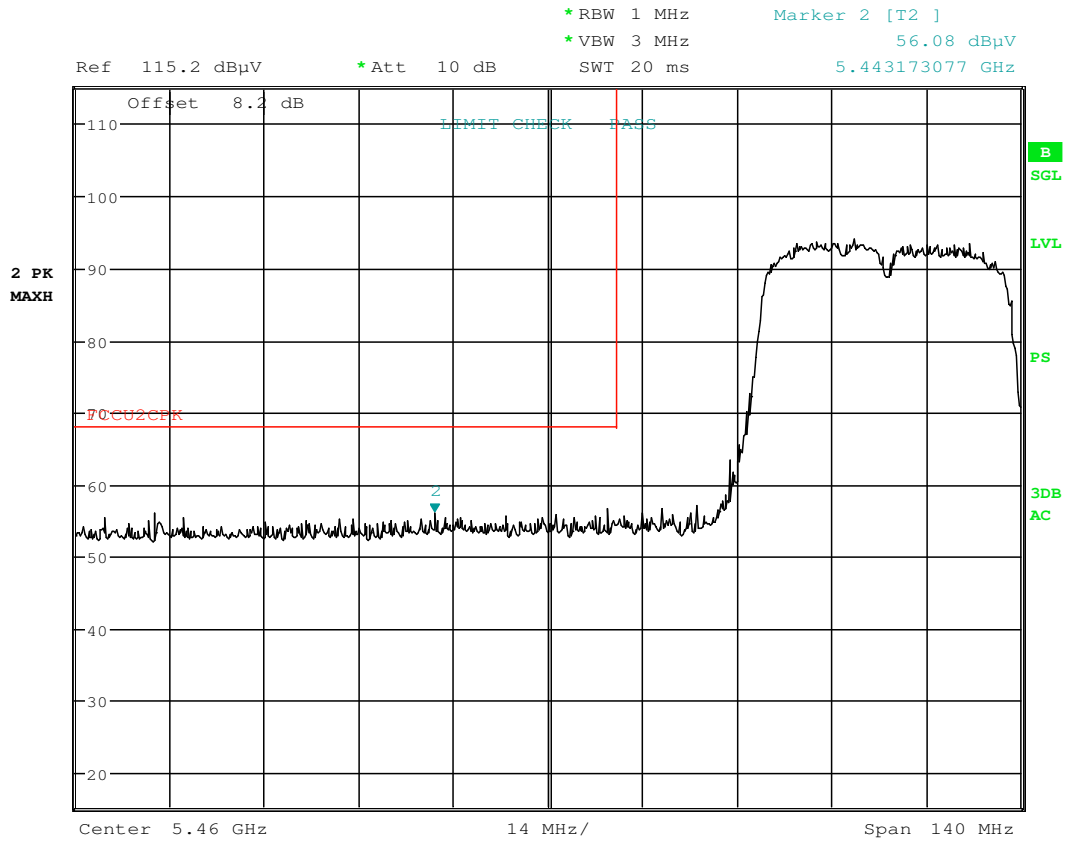
Date: 4.FEB.2017 13:04:26

Plot 7-192. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 152 of 215

Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:04:14

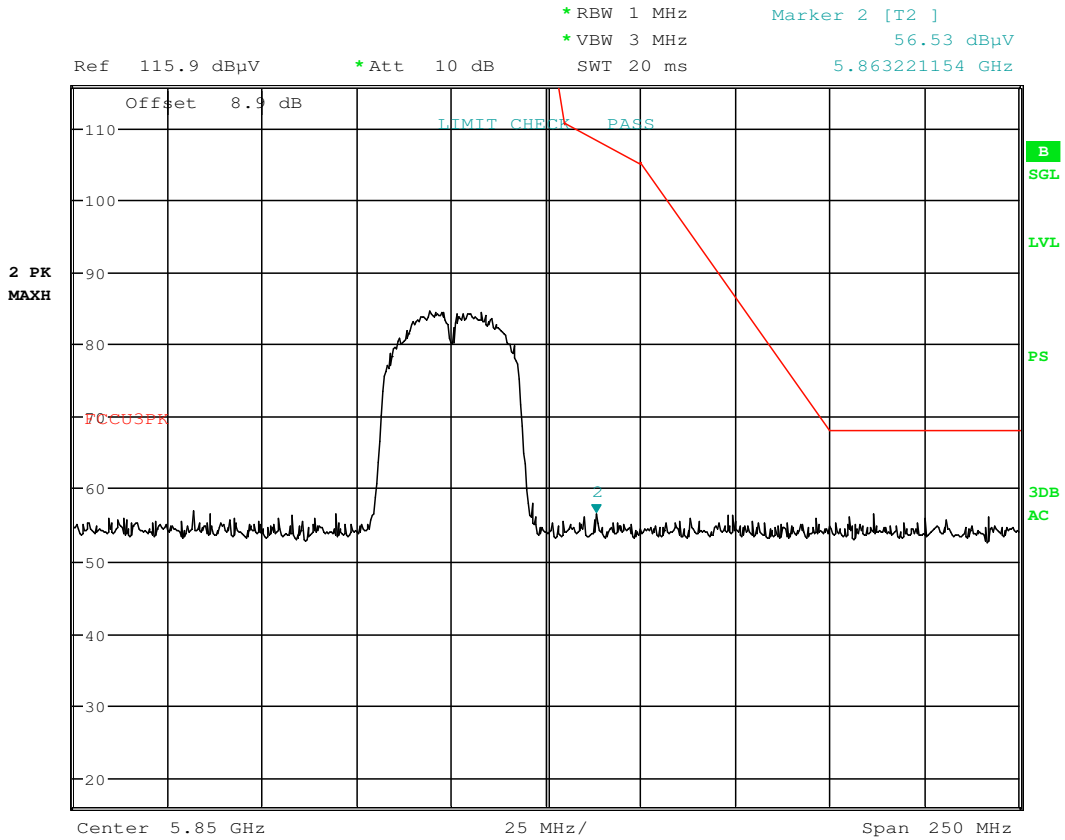
Plot 7-193. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 153 of 215	

Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



Date: 4.FEB.2017 13:09:38

Plot 7-194. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 154 of 215

7.7.5 Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

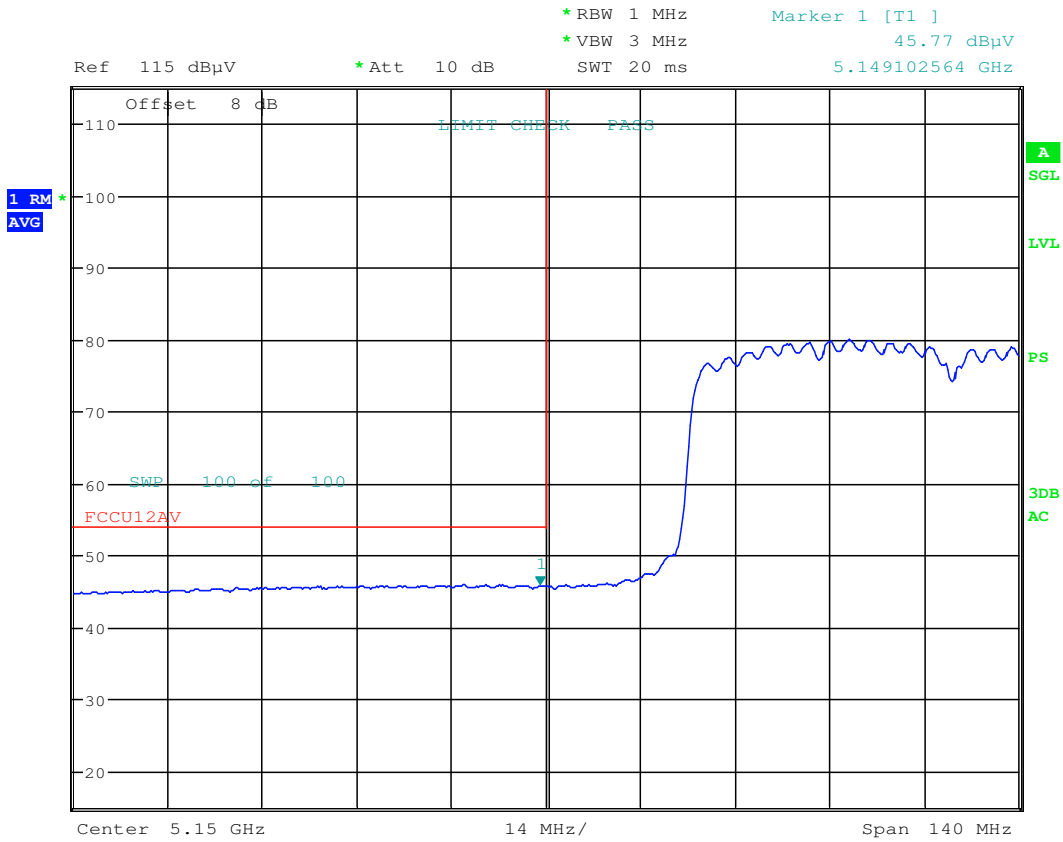
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



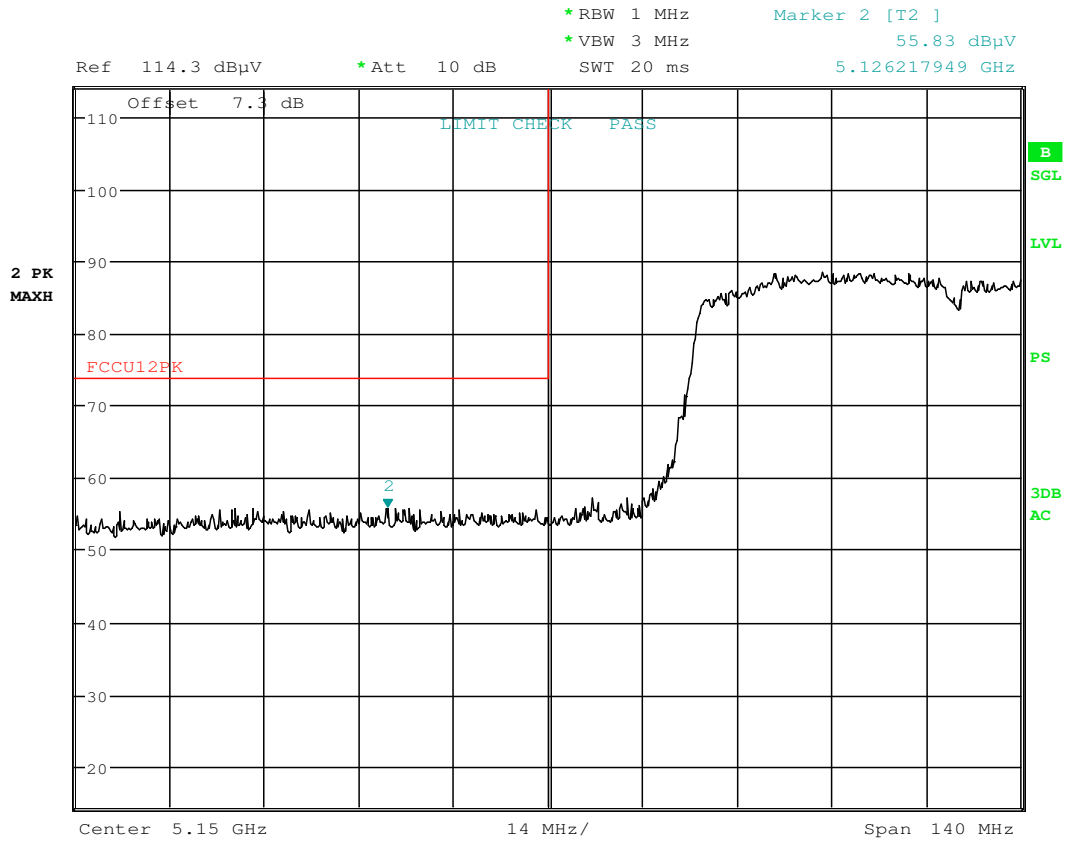
Date: 4.FEB.2017 12:47:04

Plot 7-195. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 155 of 215

Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 12:47:18

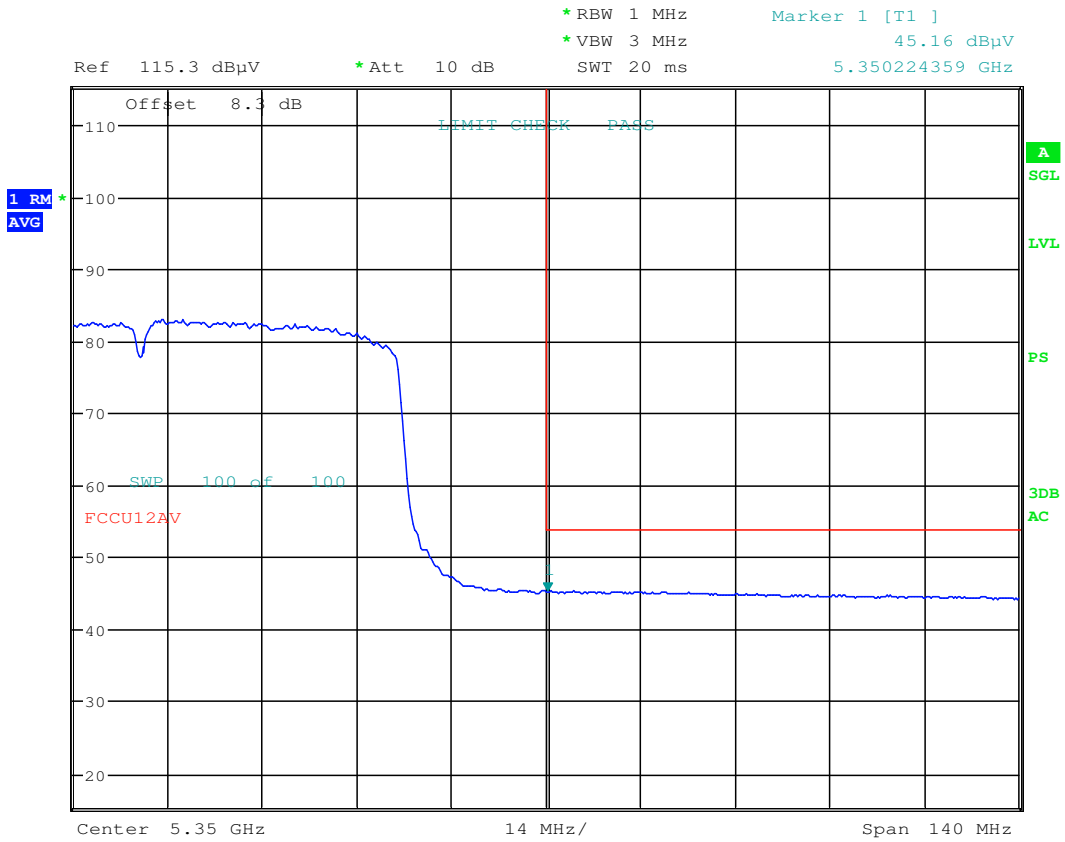
Plot 7-196. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 156 of 215	

Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



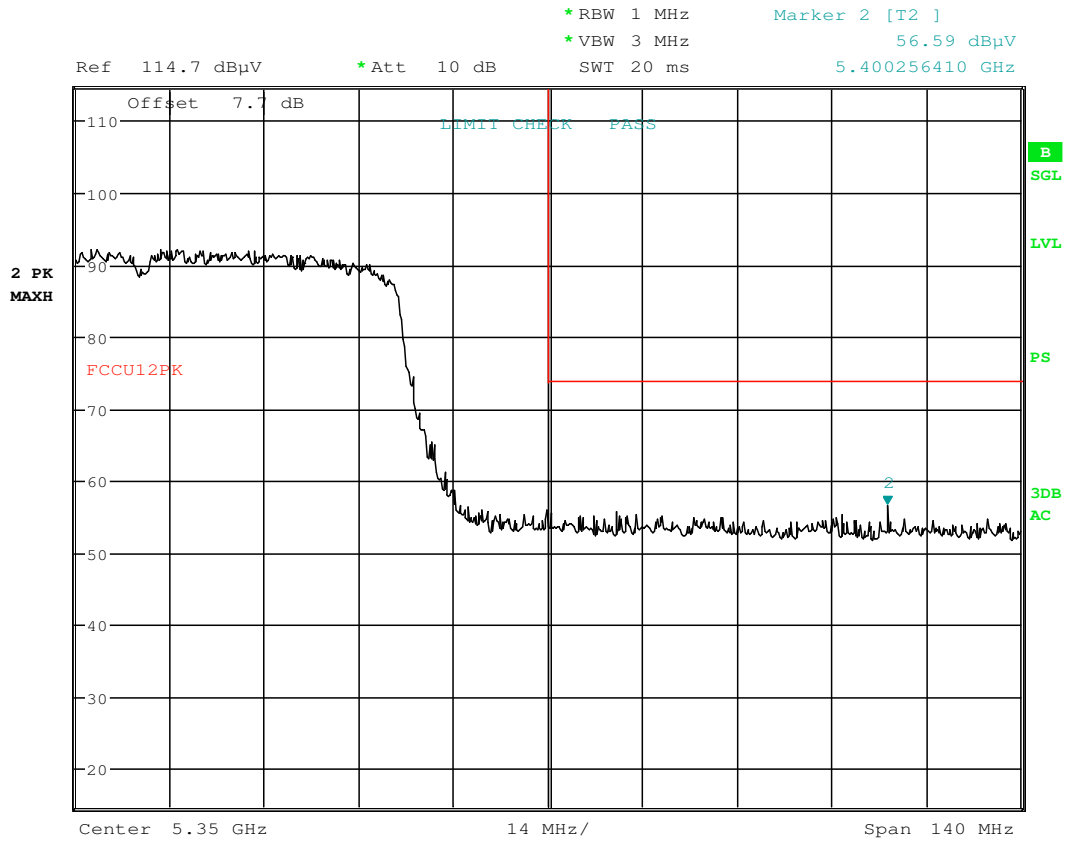
Date: 4.FEB.2017 12:58:50

Plot 7-197. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 157 of 215

Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 12:58:33

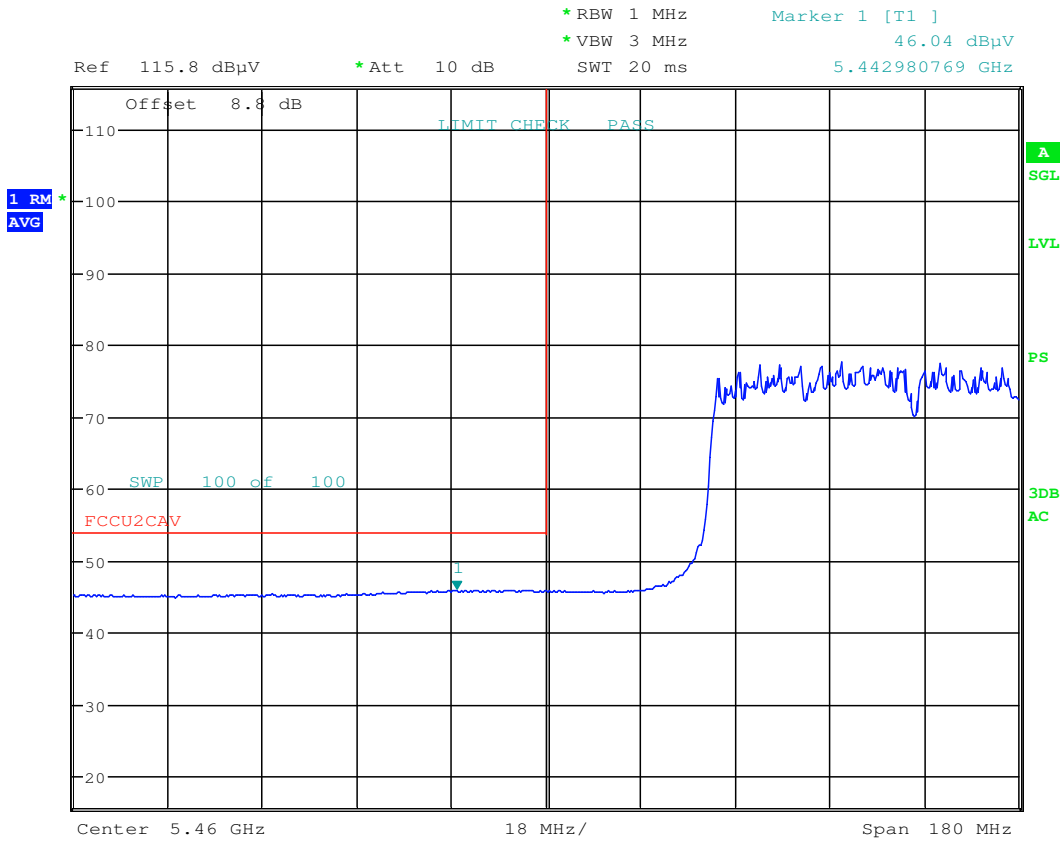
Plot 7-198. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 158 of 215	

Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



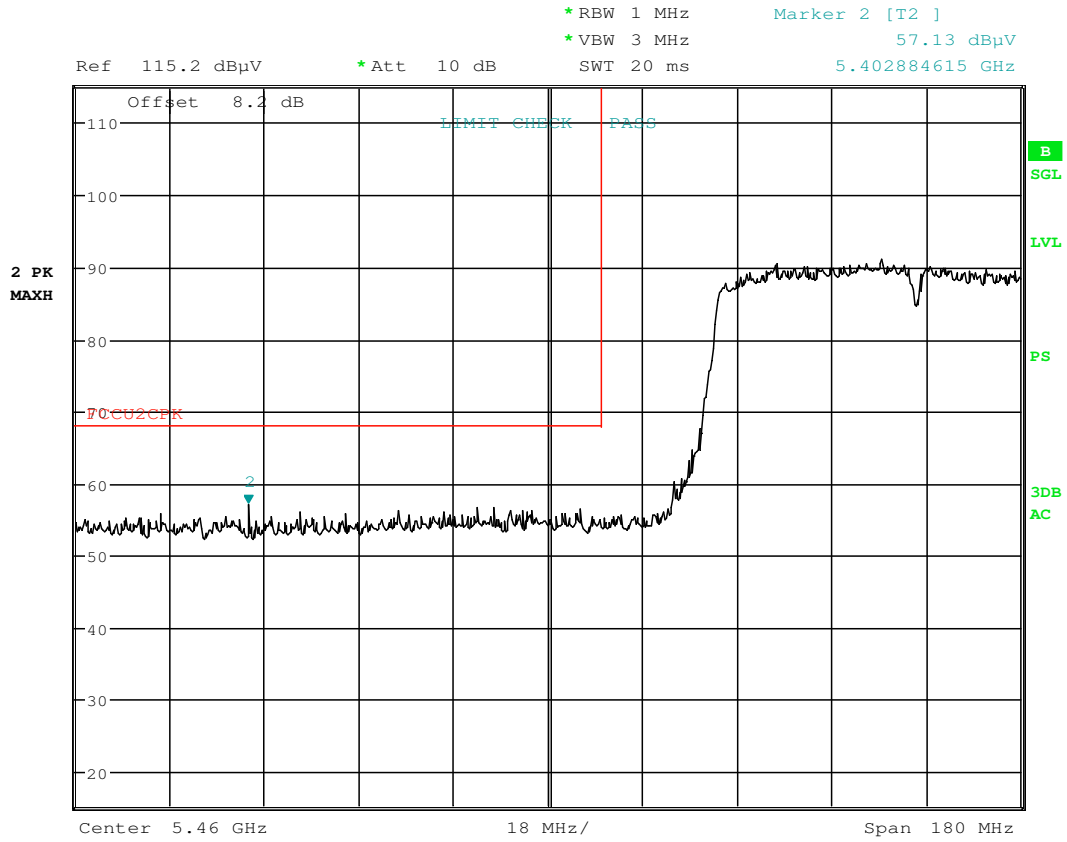
Date: 4.FEB.2017 13:05:15

Plot 7-199. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 159 of 215

Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:05:26

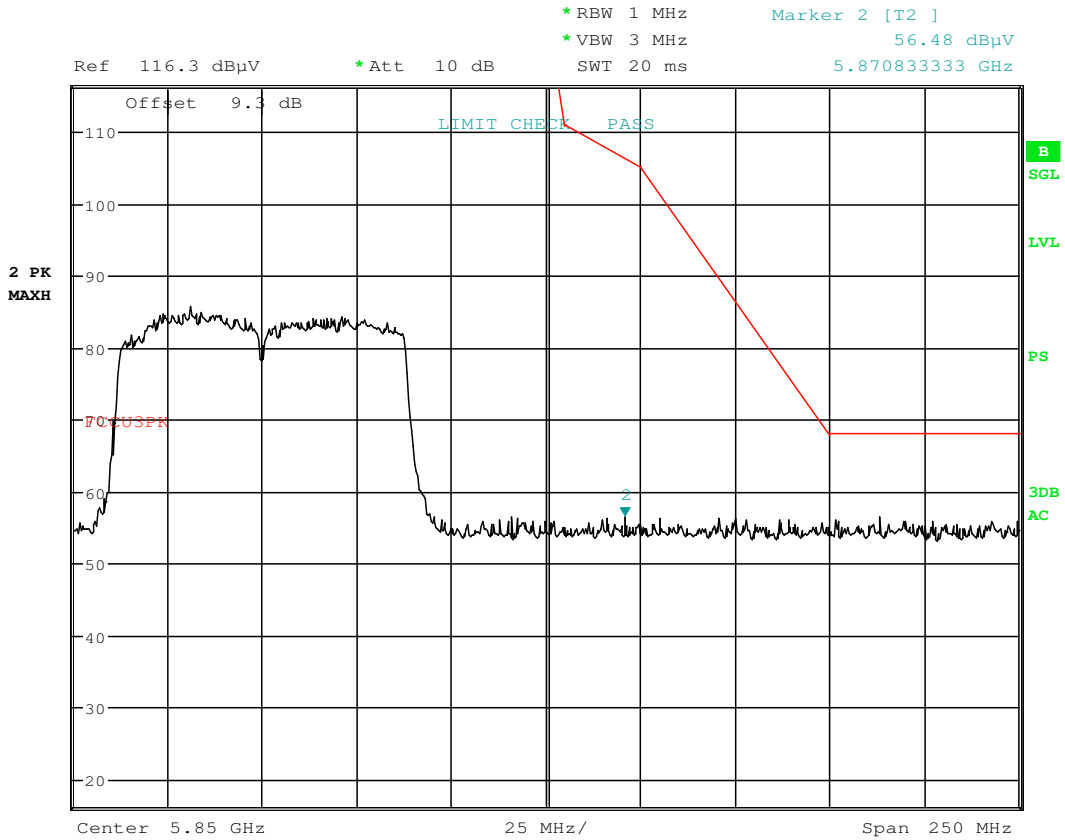
Plot 7-200. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 160 of 215	

Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Date: 2.MAR.2017 18:51:54

Plot 7-201. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 161 of 215

7.7.6 Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

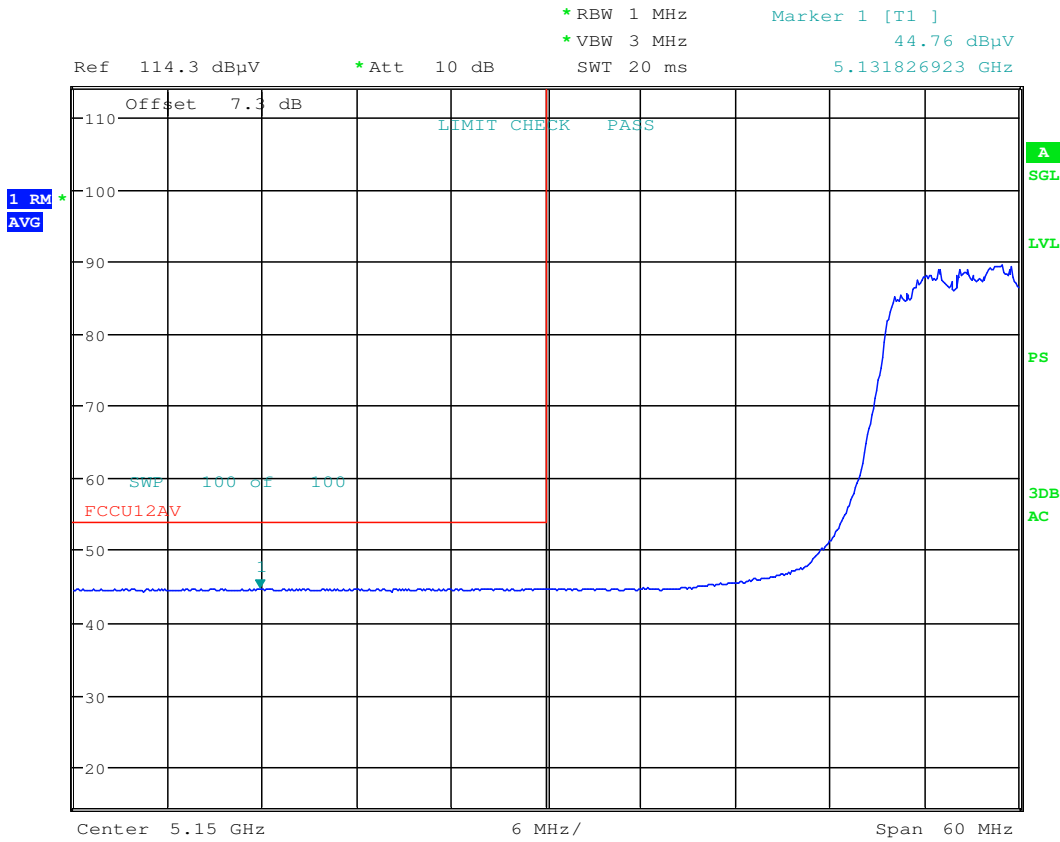
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



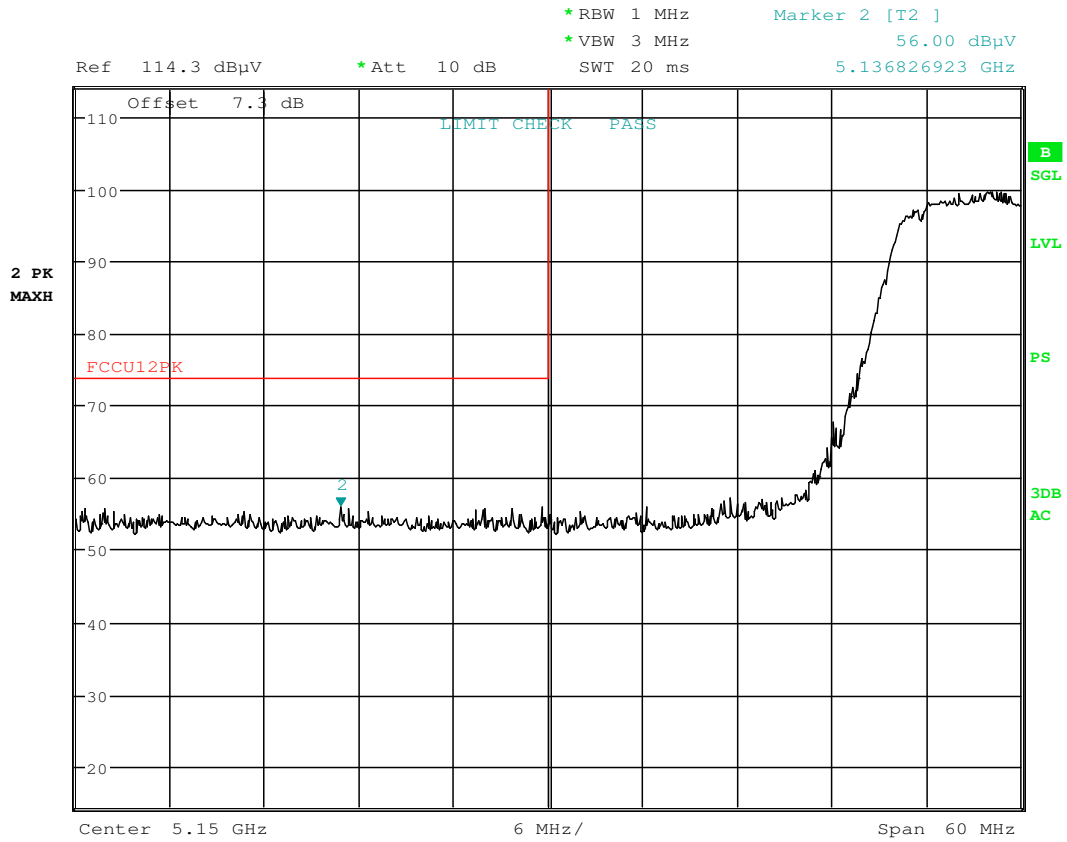
Date: 4.FEB.2017 13:14:22

Plot 7-202. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 162 of 215

Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:14:31

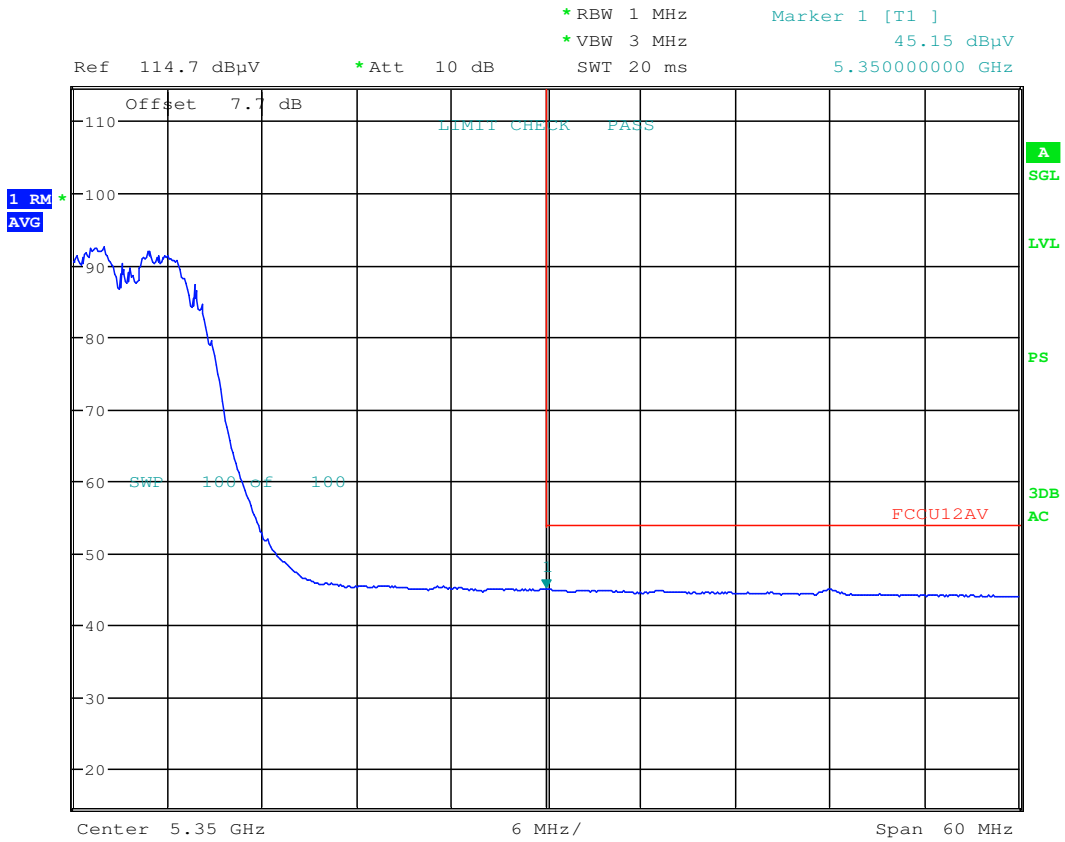
Plot 7-203. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 163 of 215	

Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



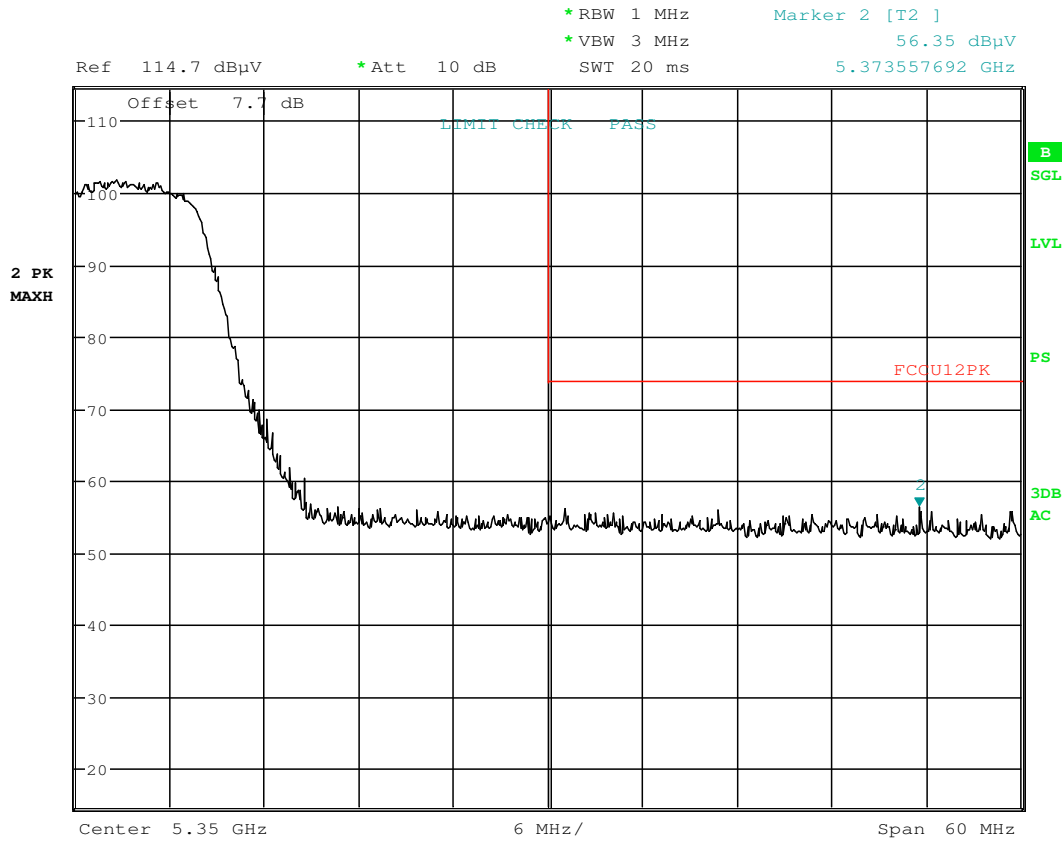
Date: 4.FEB.2017 13:22:37

Plot 7-204. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 164 of 215

Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:23:31

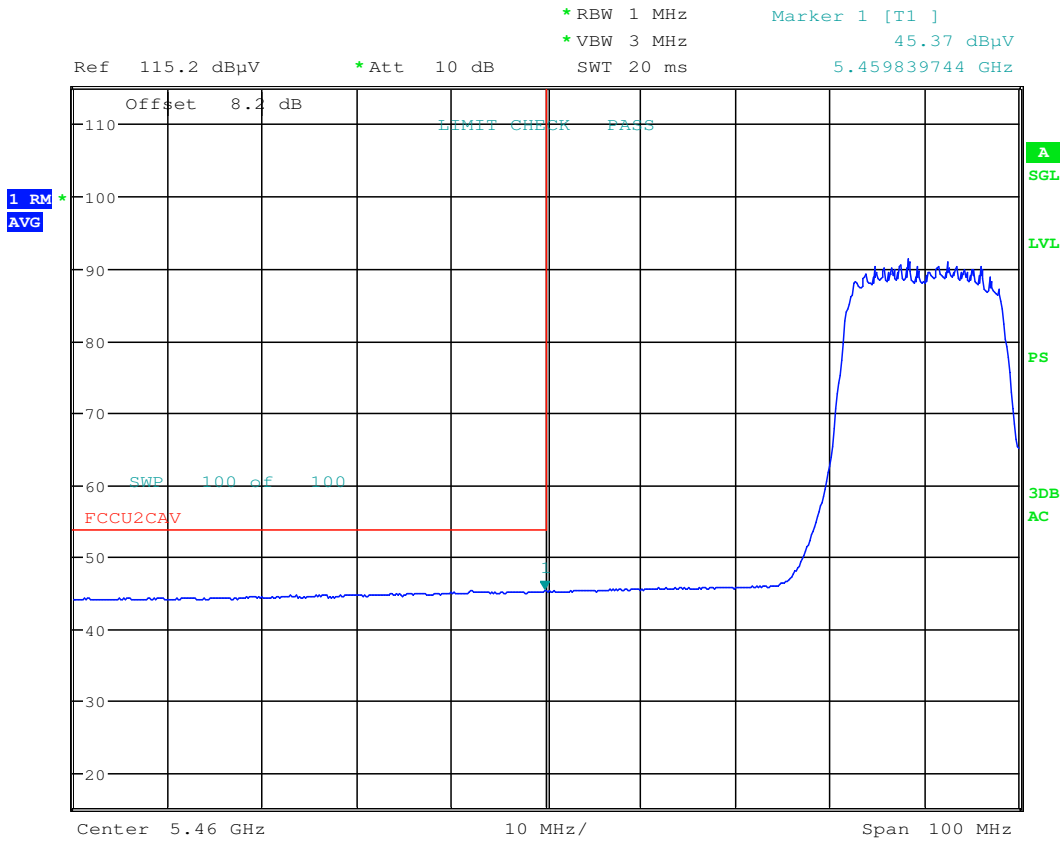
Plot 7-205. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 165 of 215	

Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



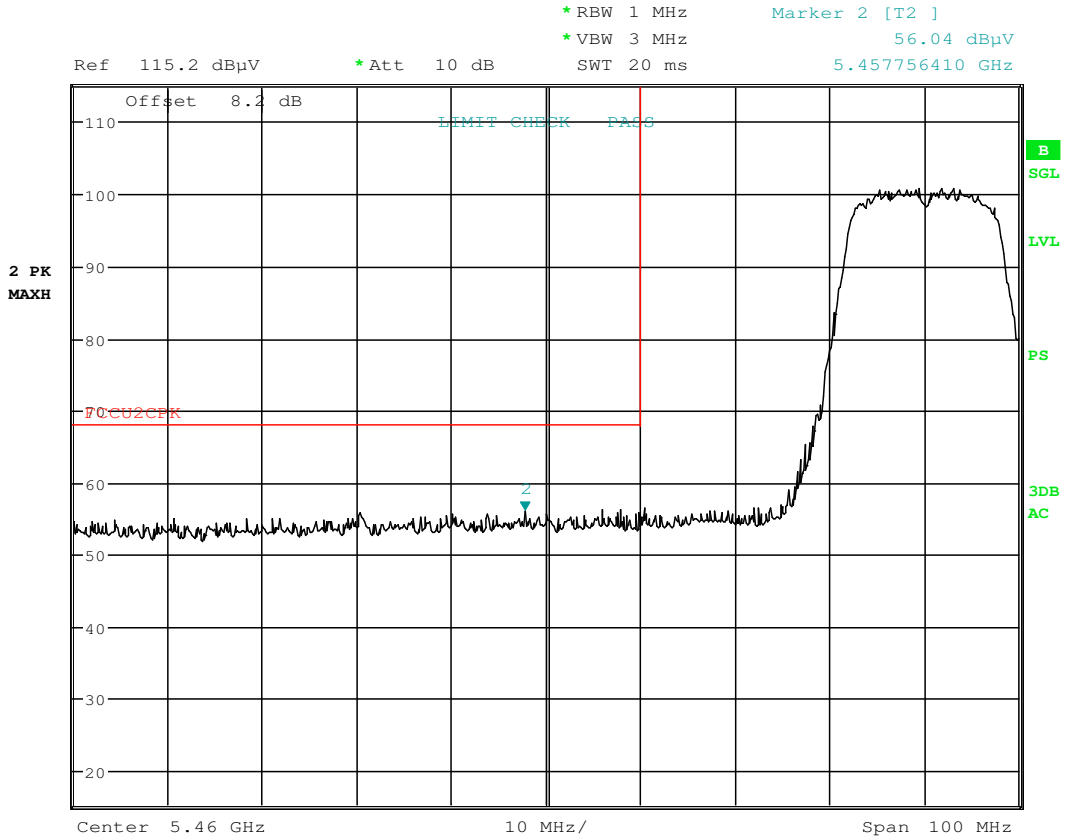
Date: 4.FEB.2017 13:32:10

Plot 7-206. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 166 of 215

Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:33:41

Plot 7-207. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 167 of 215	

Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

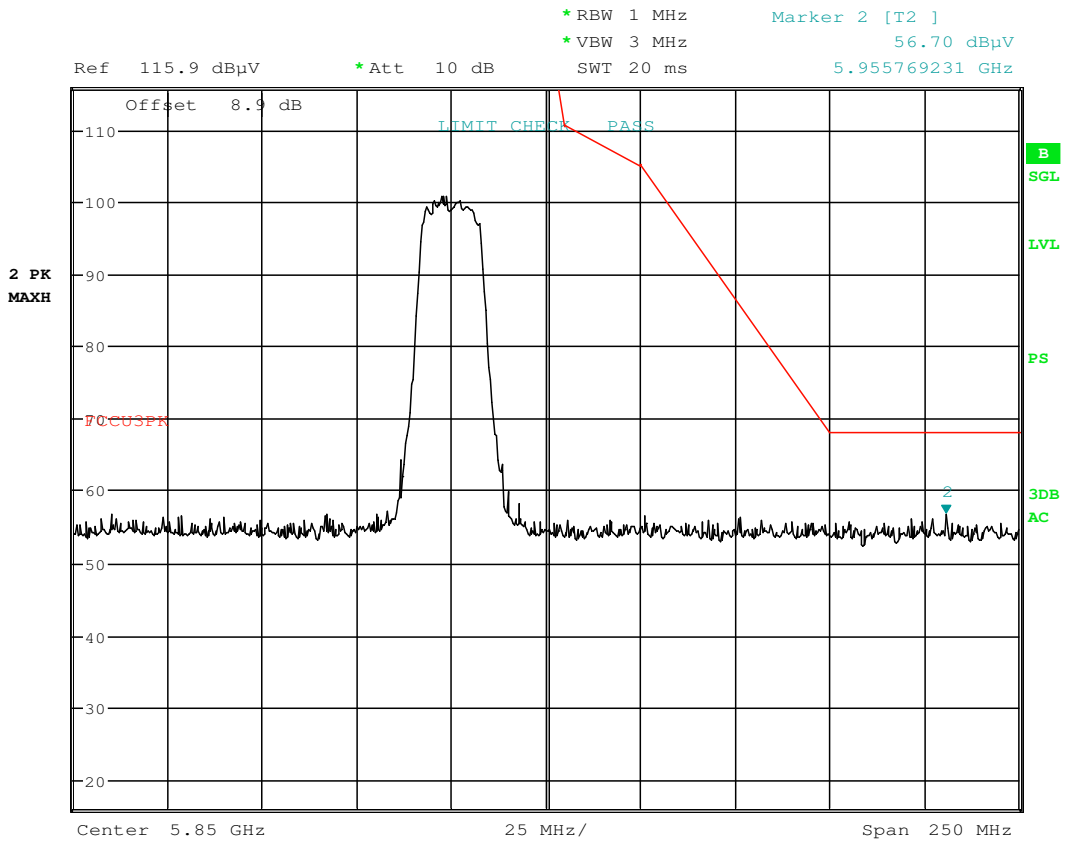
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 4.FEB.2017 13:37:52

Plot 7-208. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 168 of 215

7.7.7 Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

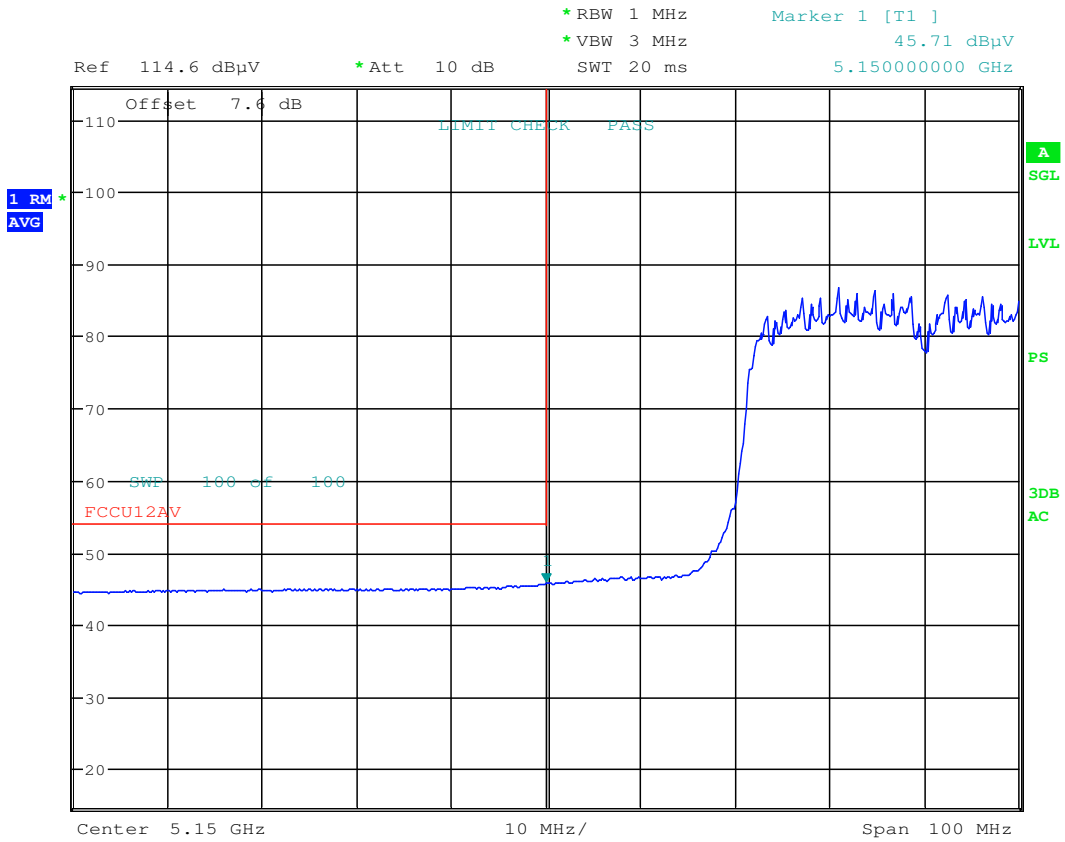
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



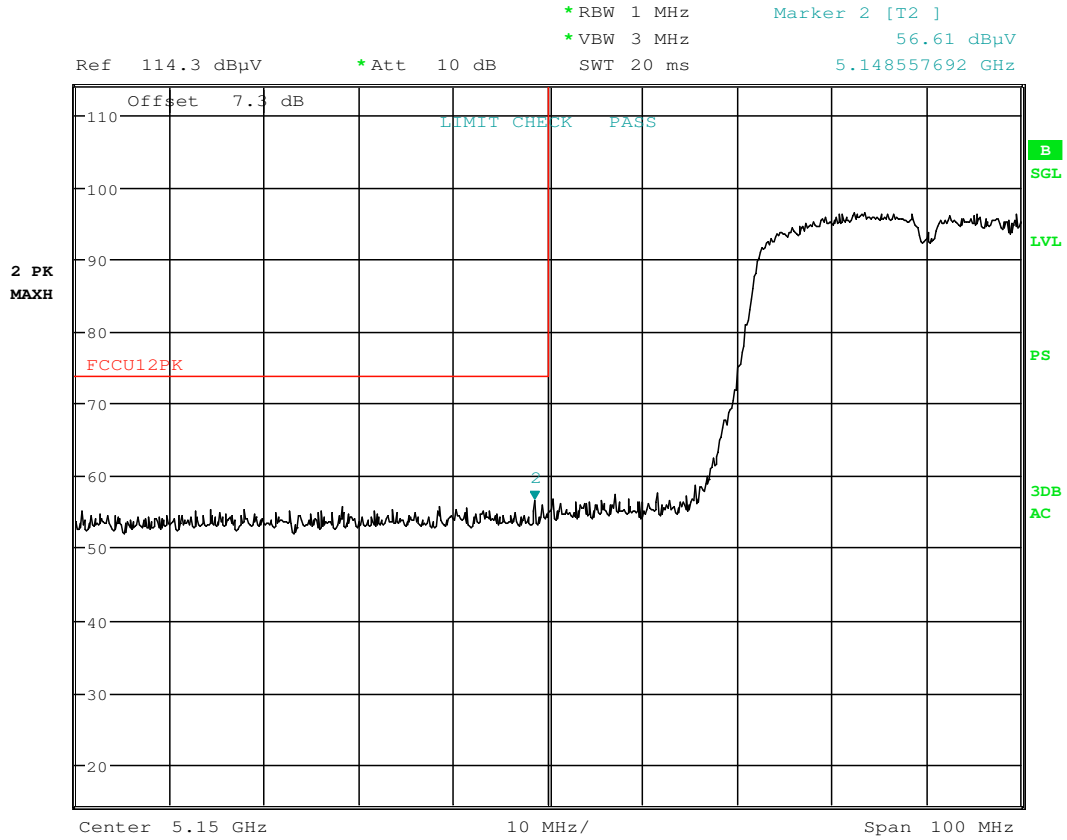
Date: 4.FEB.2017 13:17:21

Plot 7-209. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 169 of 215

Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:17:31

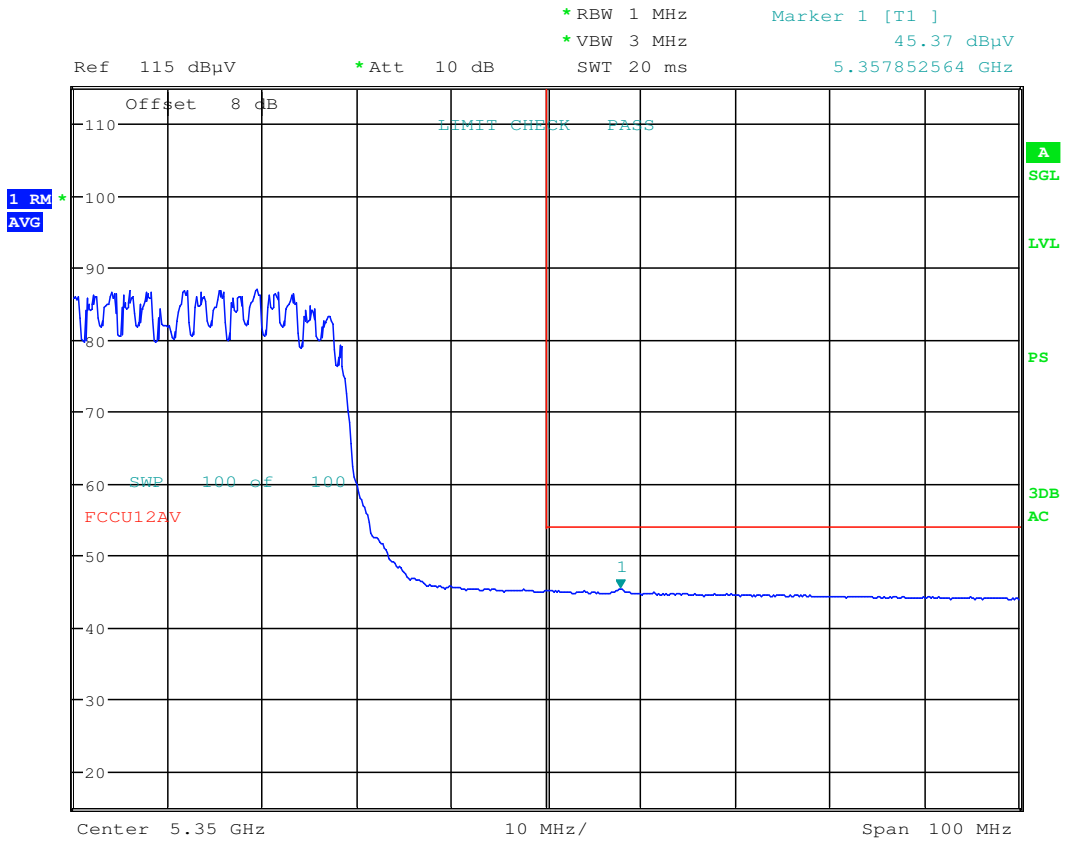
Plot 7-210. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 170 of 215	

Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



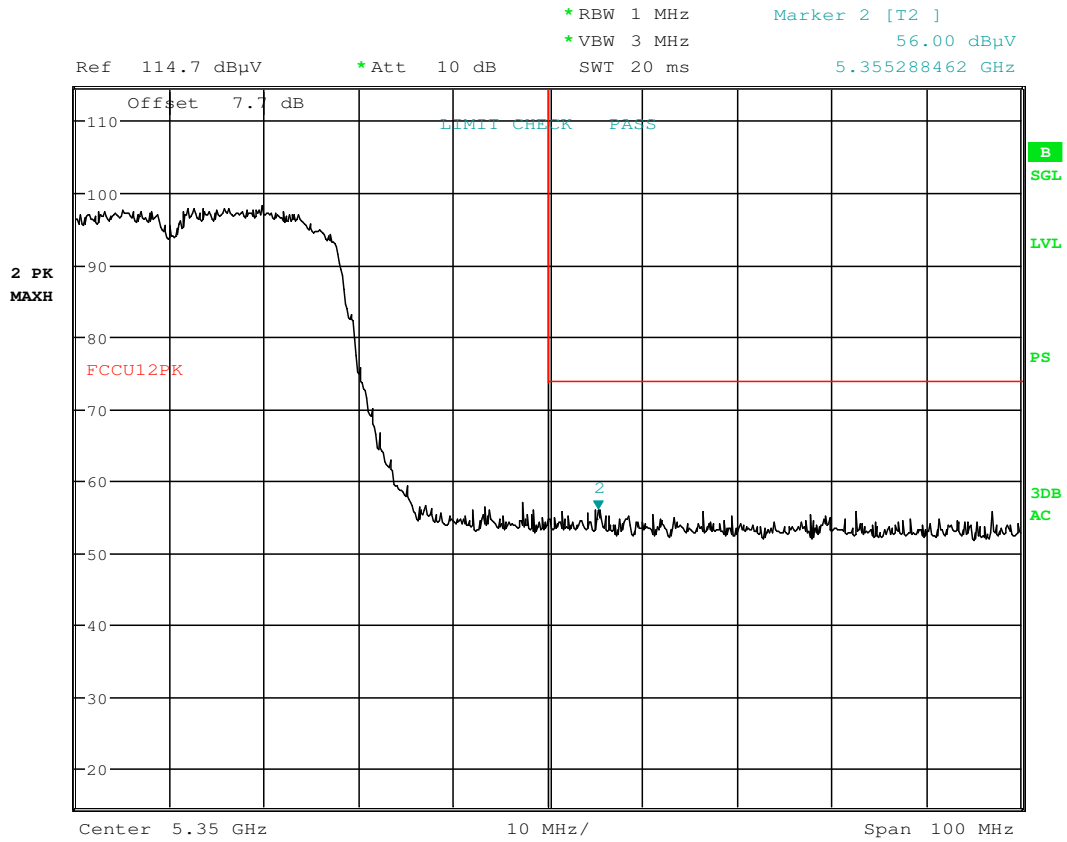
Date: 4.FEB.2017 13:26:06

Plot 7-211. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 171 of 215



Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:26:26

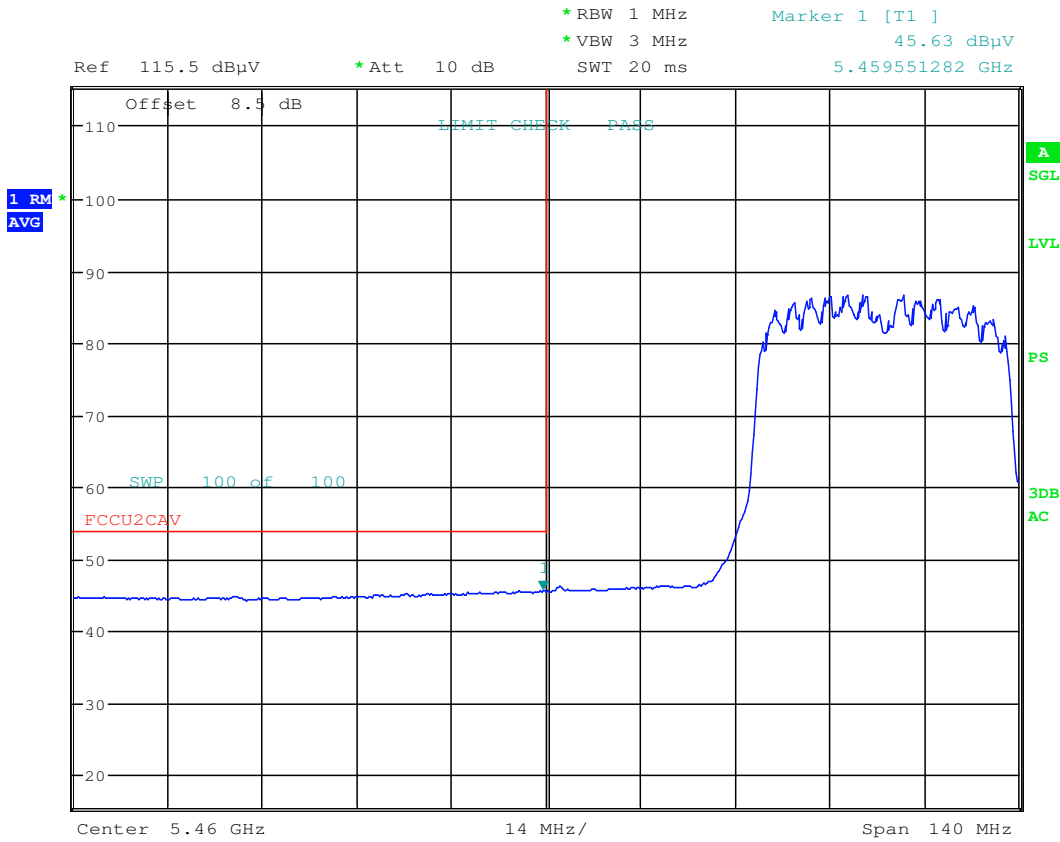
Plot 7-212. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 172 of 215	

Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



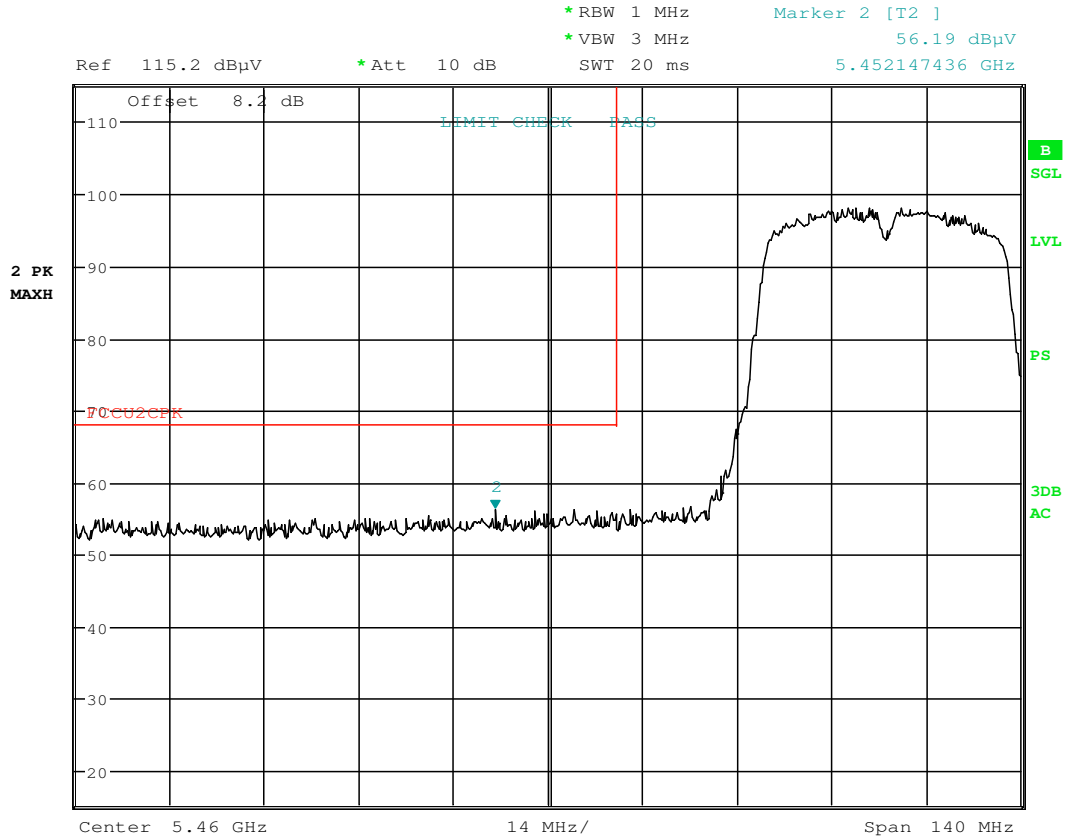
Date: 4.FEB.2017 13:34:34

Plot 7-213. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 173 of 215	

Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:34:47

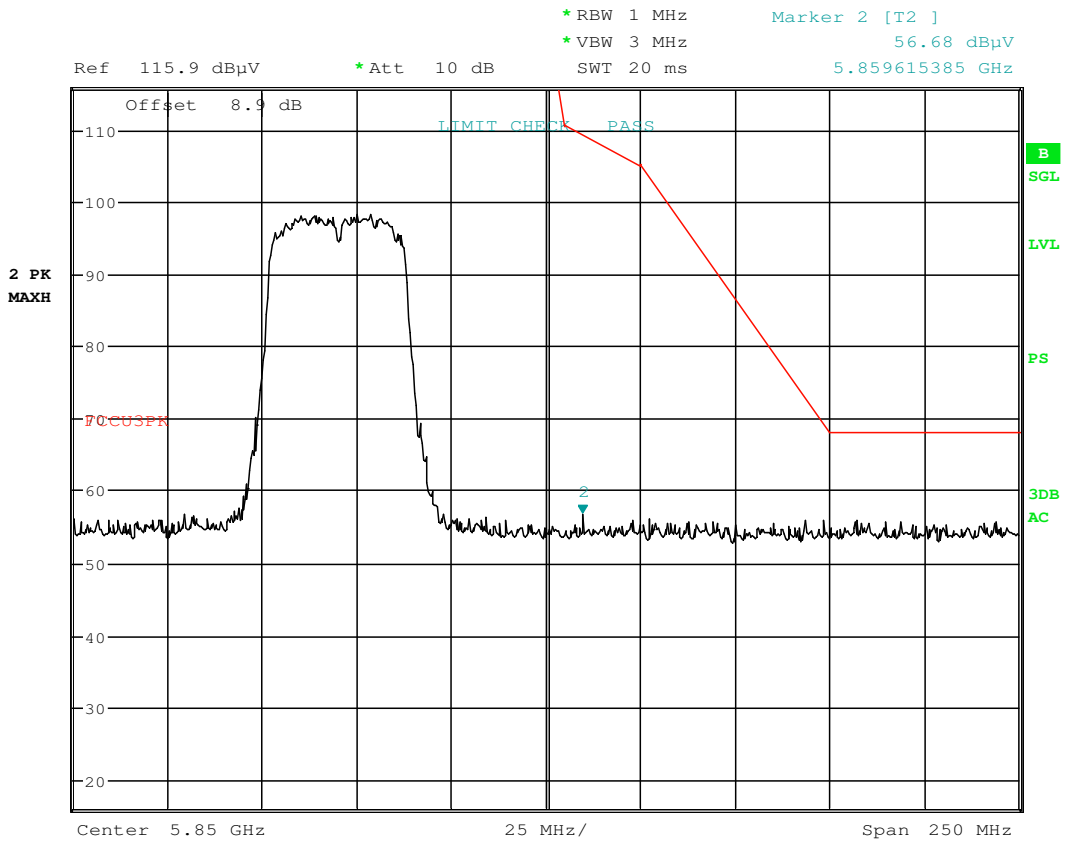
Plot 7-214. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 174 of 215	

Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



Date: 4.FEB.2017 13:37:14

Plot 7-215. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 175 of 215

7.7.8 Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

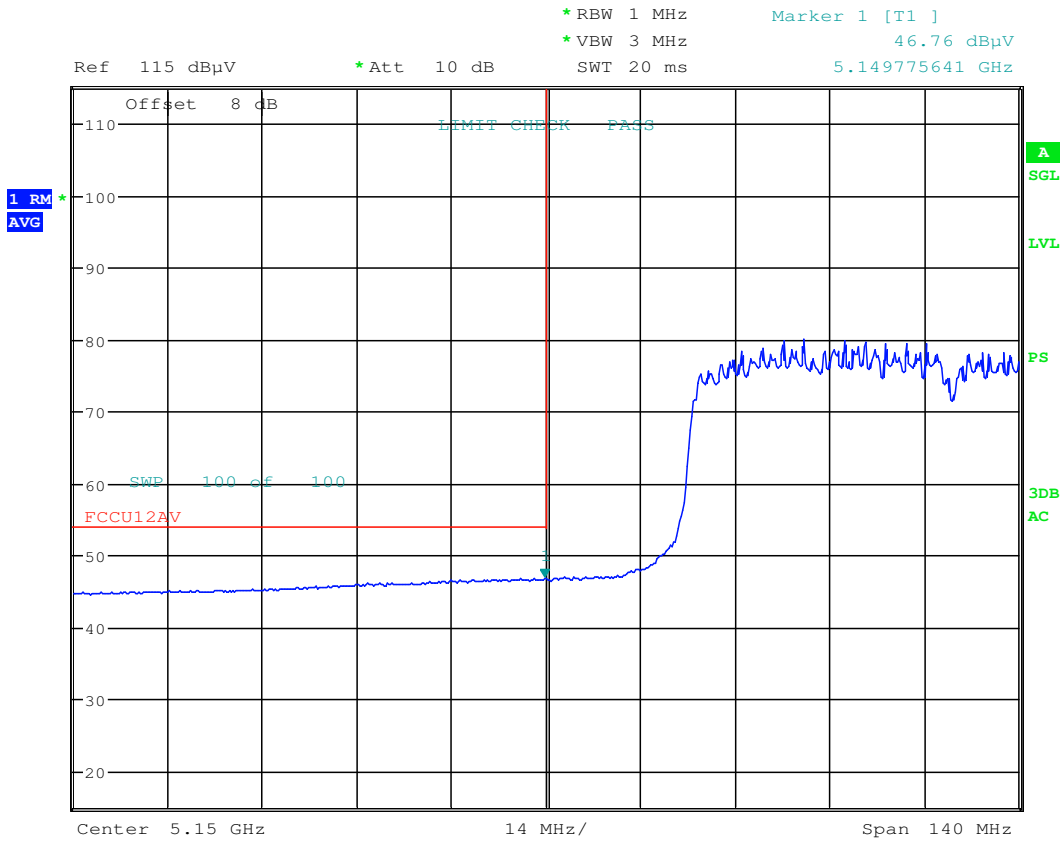
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



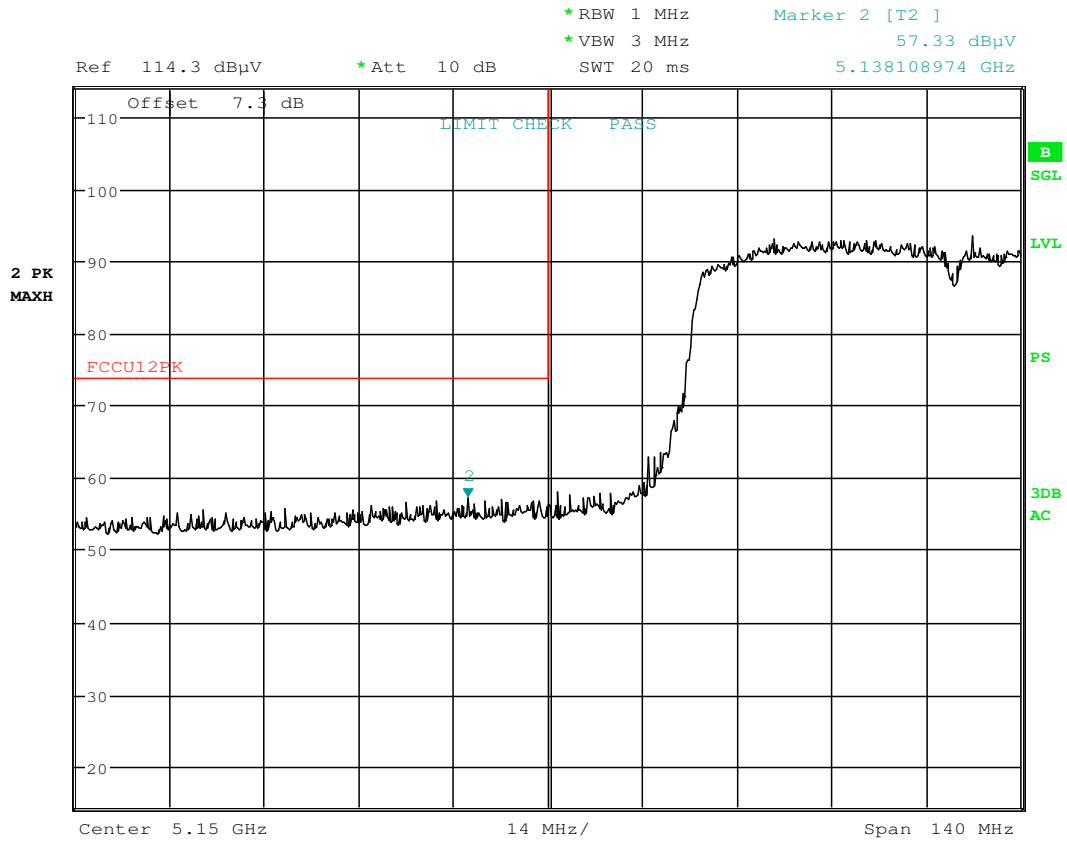
Date: 4.FEB.2017 13:18:21

Plot 7-216. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 176 of 215

Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:18:10

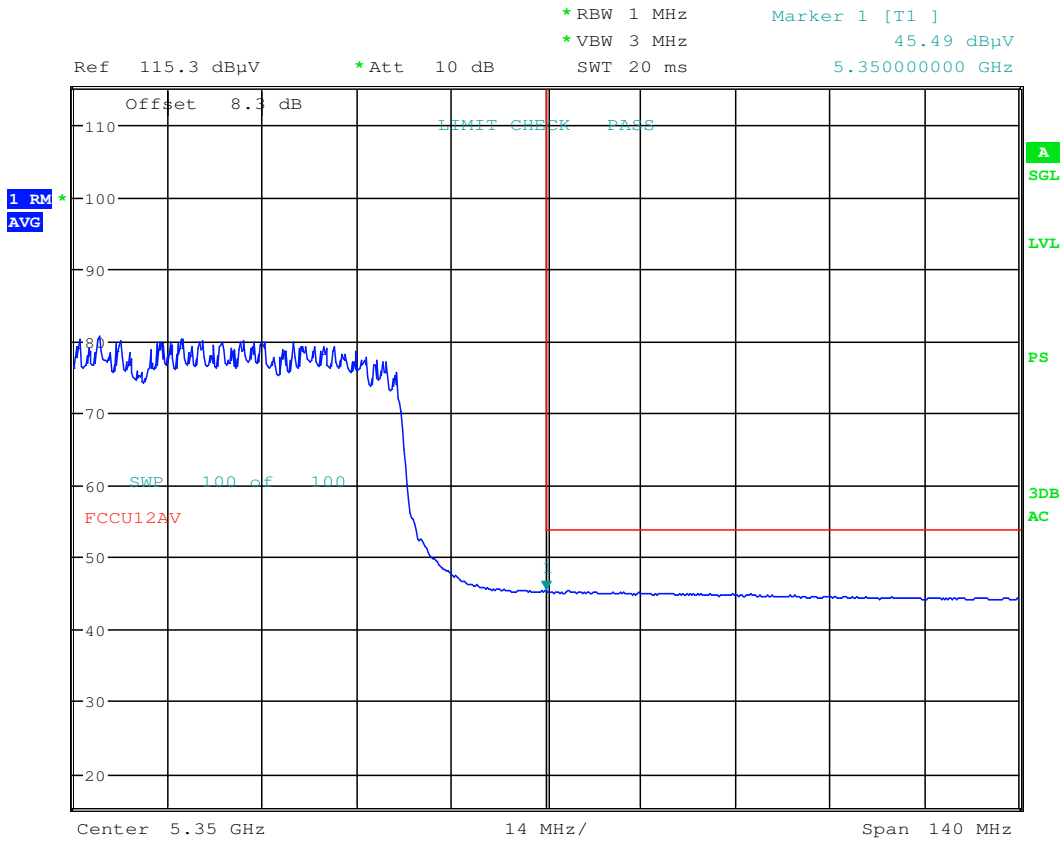
Plot 7-217. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 177 of 215	

Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



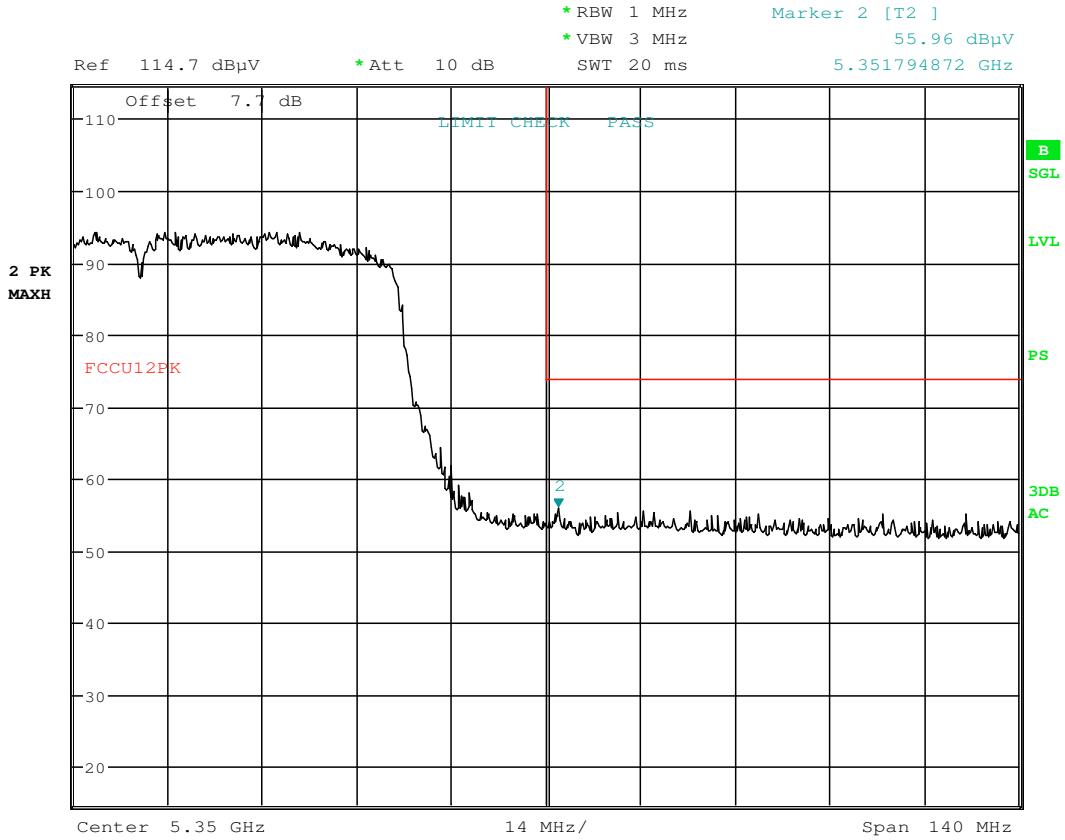
Date: 4.FEB.2017 13:27:34

Plot 7-218. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 178 of 215

Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:27:10

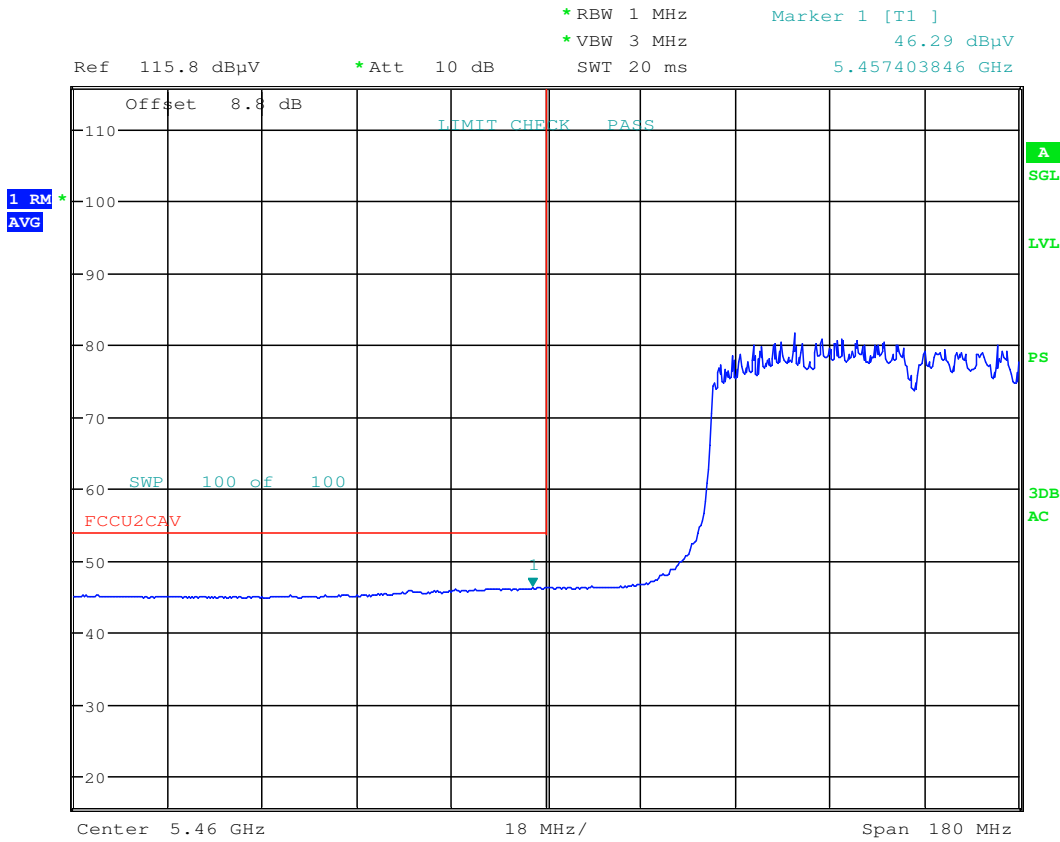
Plot 7-219. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 179 of 215	

Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



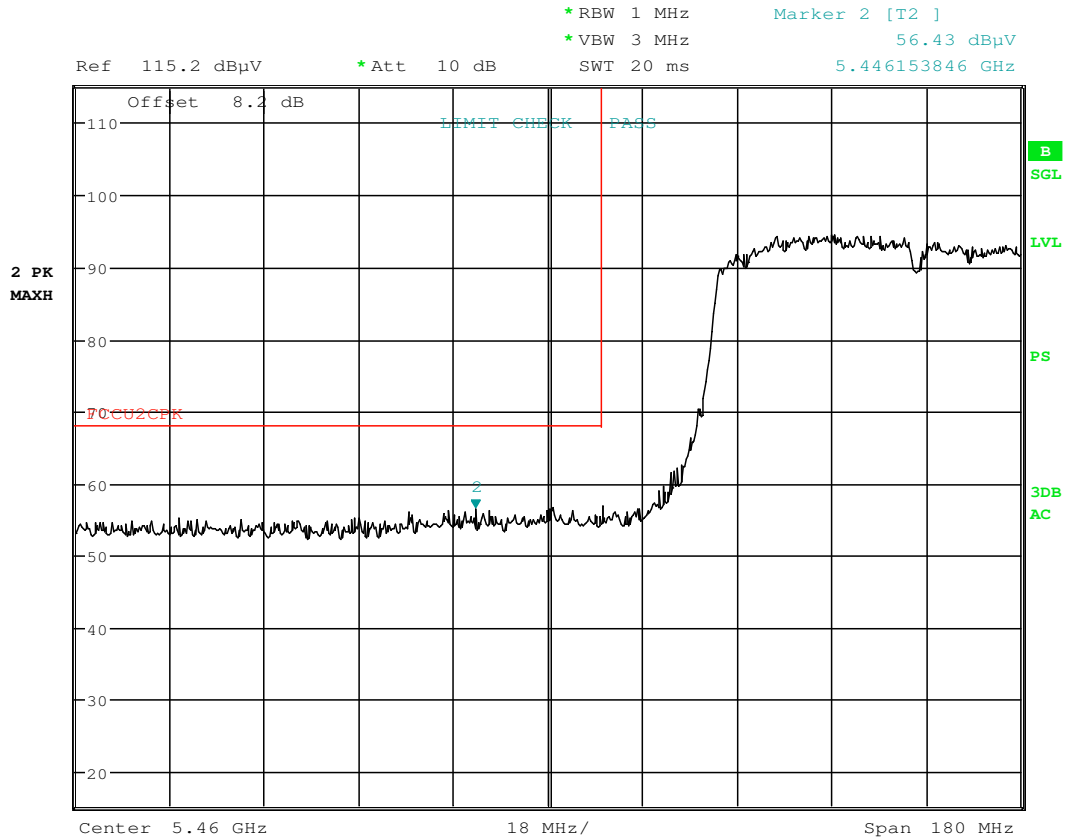
Date: 4.FEB.2017 13:35:52

Plot 7-220. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 180 of 215



Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:35:32

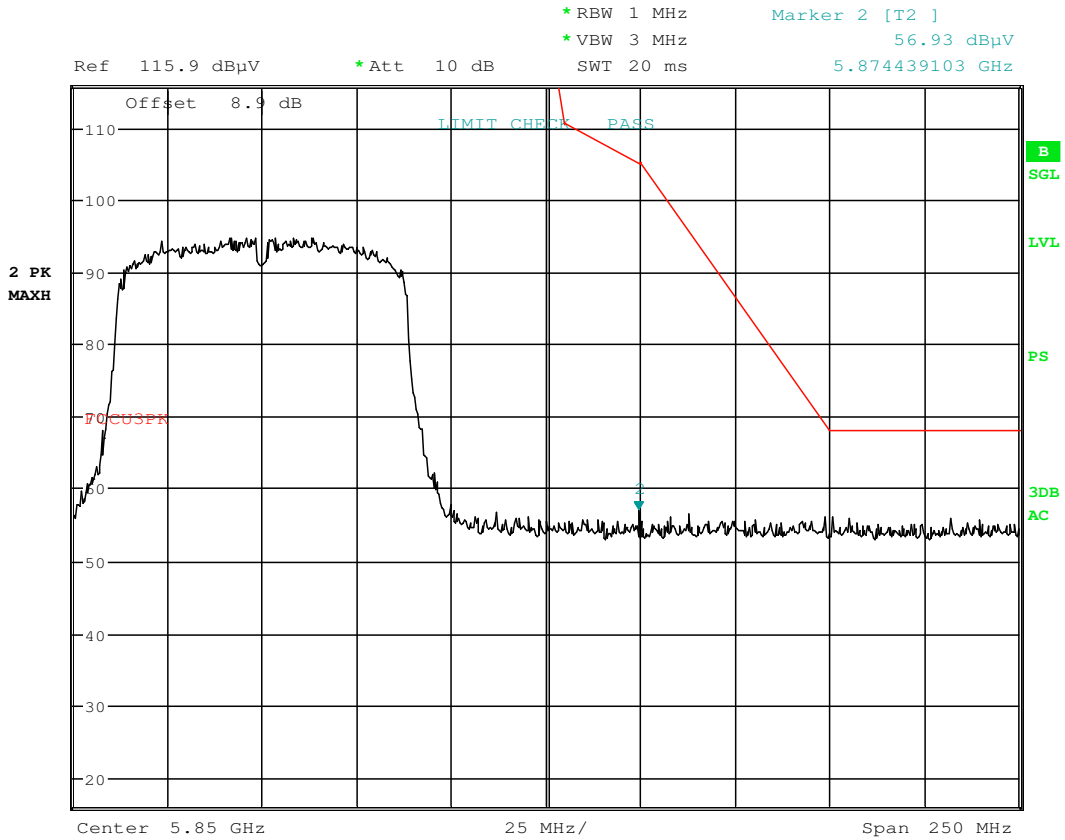
Plot 7-221. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 181 of 215	

Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Date: 4.FEB.2017 13:36:31

Plot 7-222. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 182 of 215

7.7.9 MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

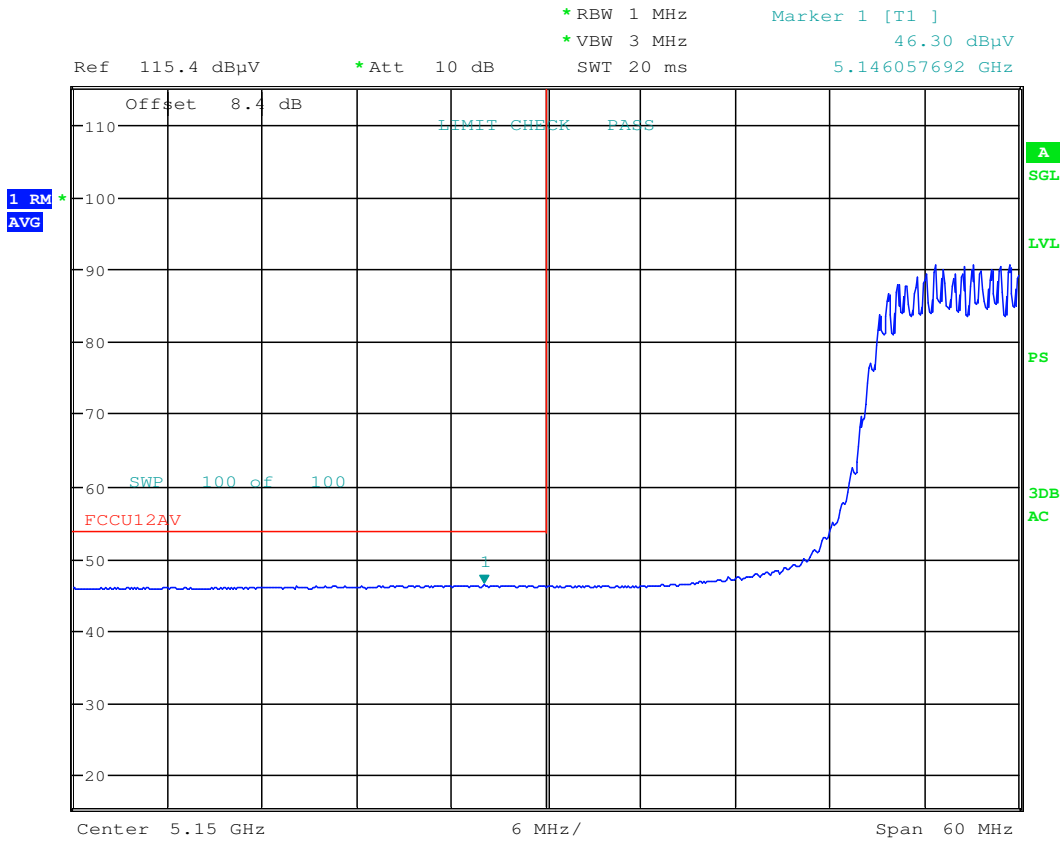
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



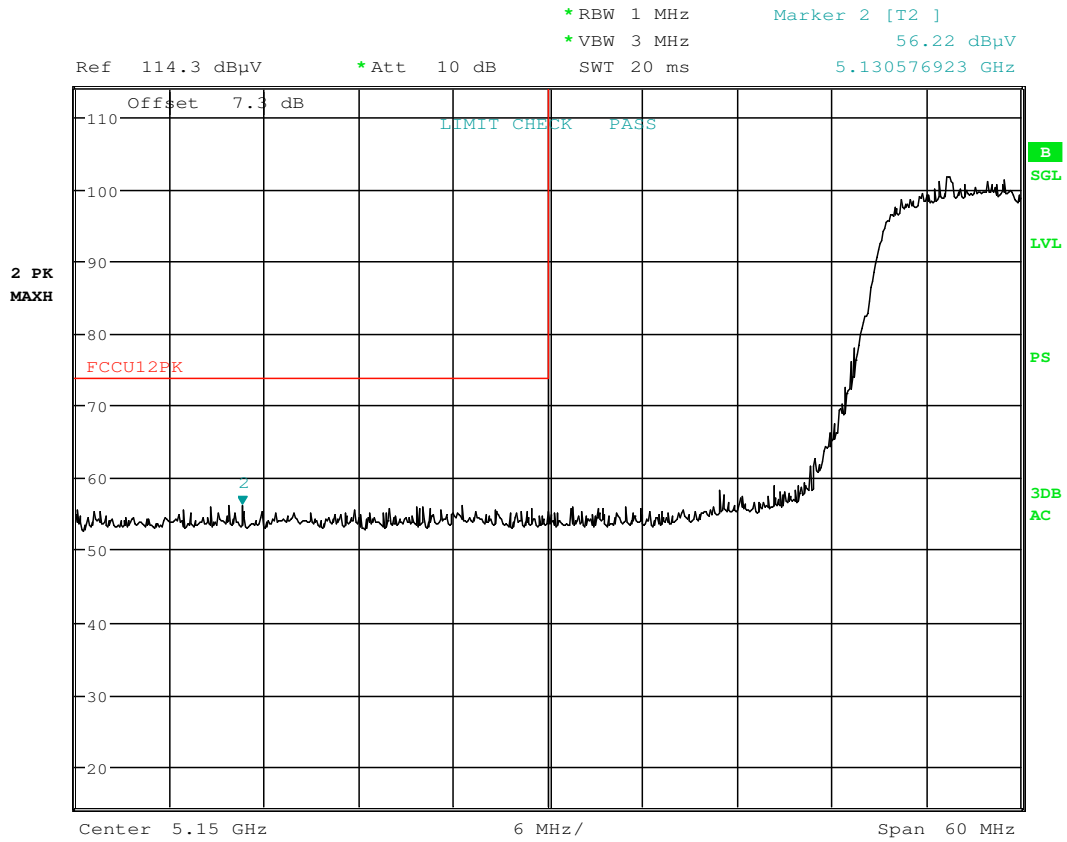
Date: 4.FEB.2017 13:46:56

Plot 7-223. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 183 of 215

MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:59:47

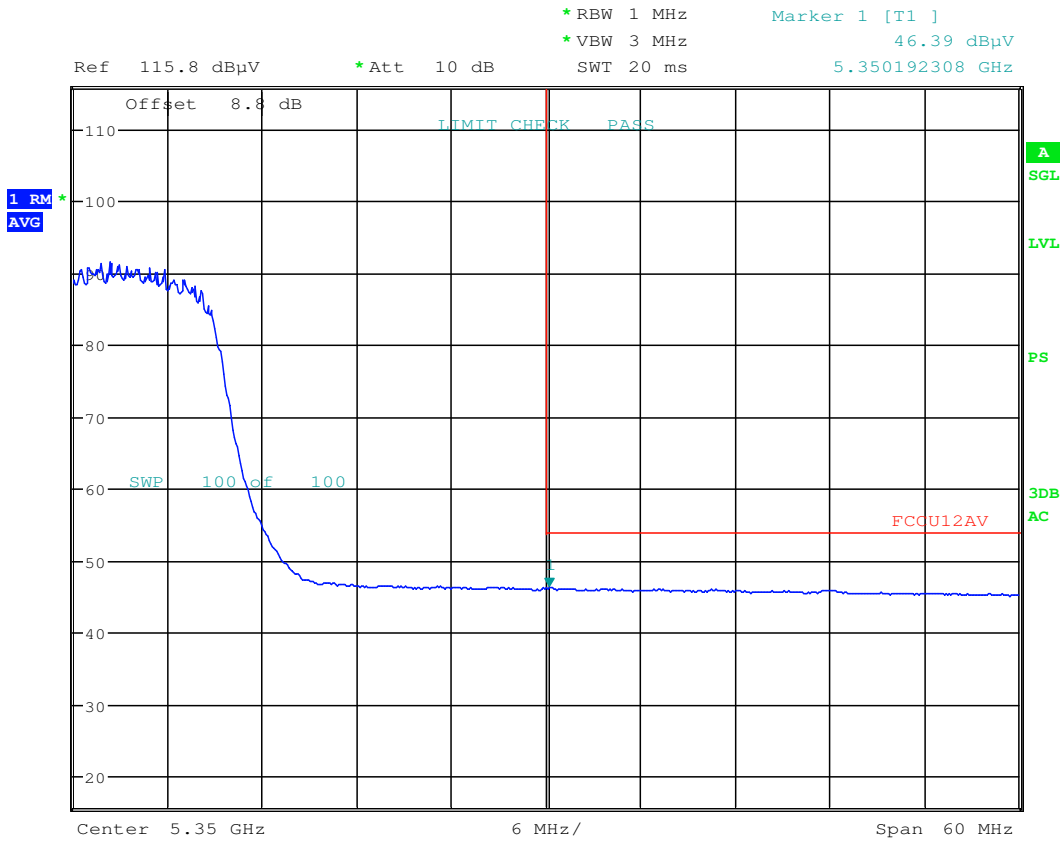
Plot 7-224. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 184 of 215	

MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



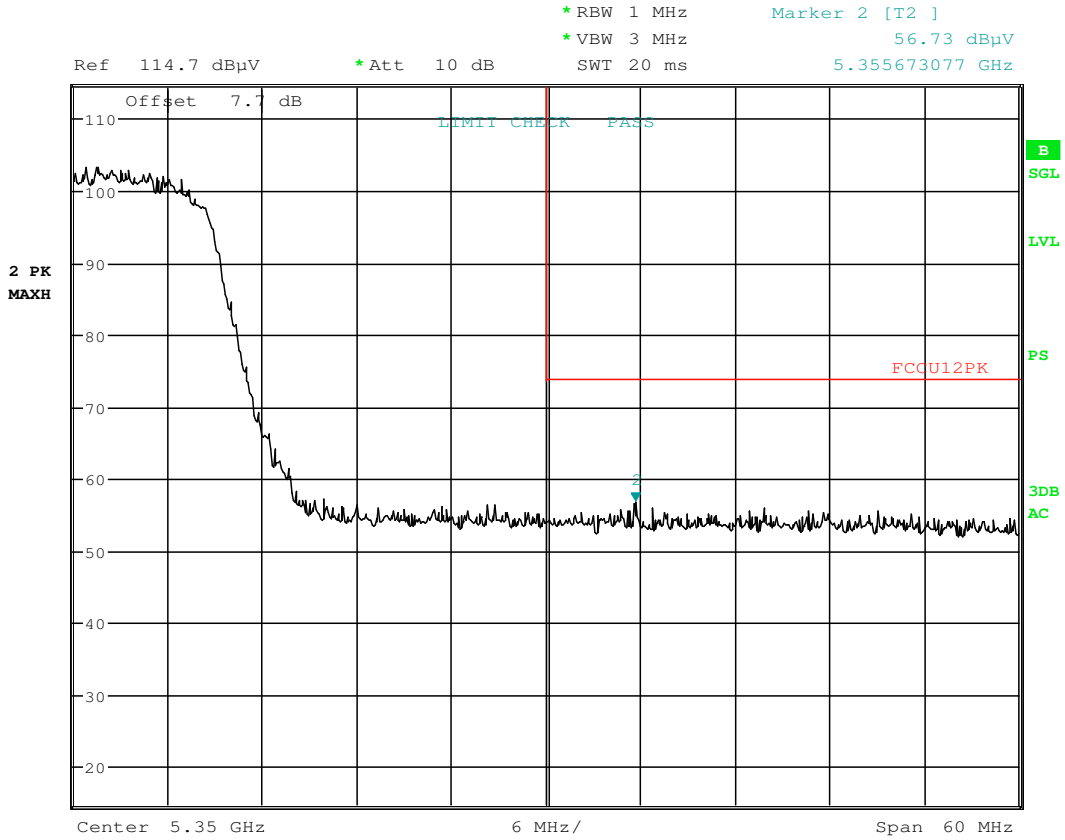
Date: 4.FEB.2017 14:02:59

Plot 7-225. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 185 of 215

MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 14:03:10

Plot 7-226. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 186 of 215	

MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

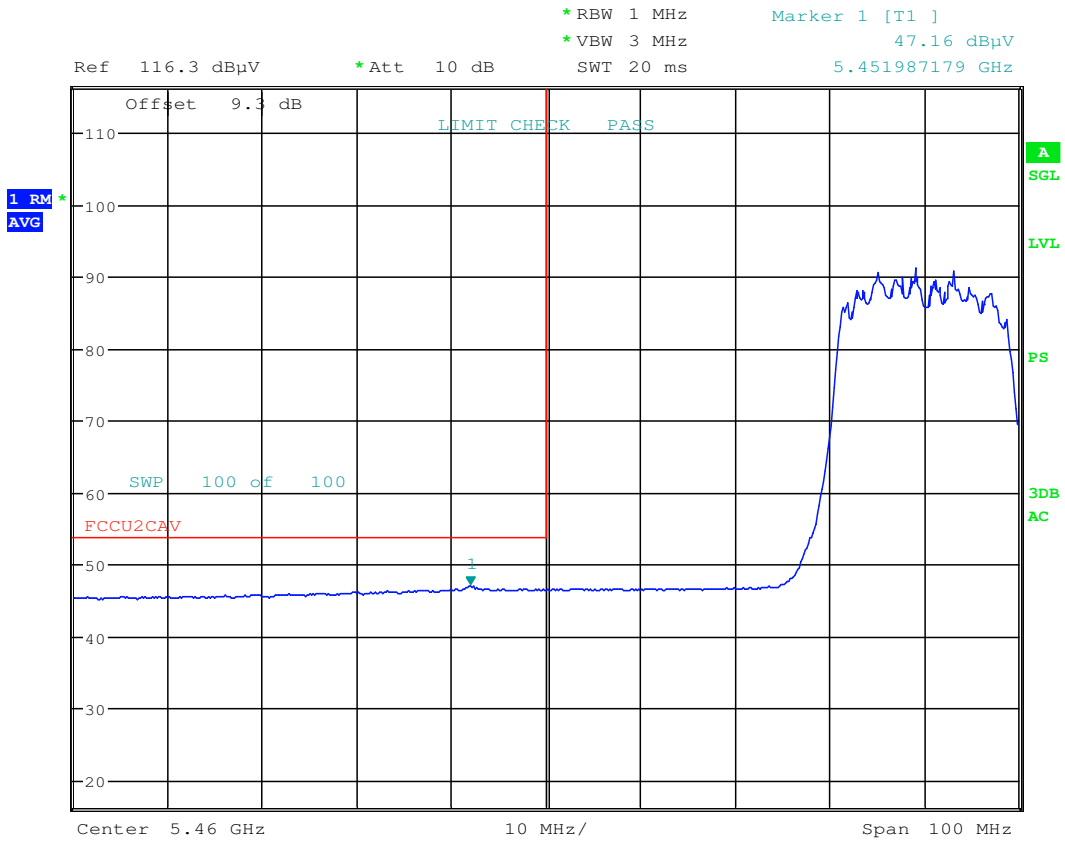
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100



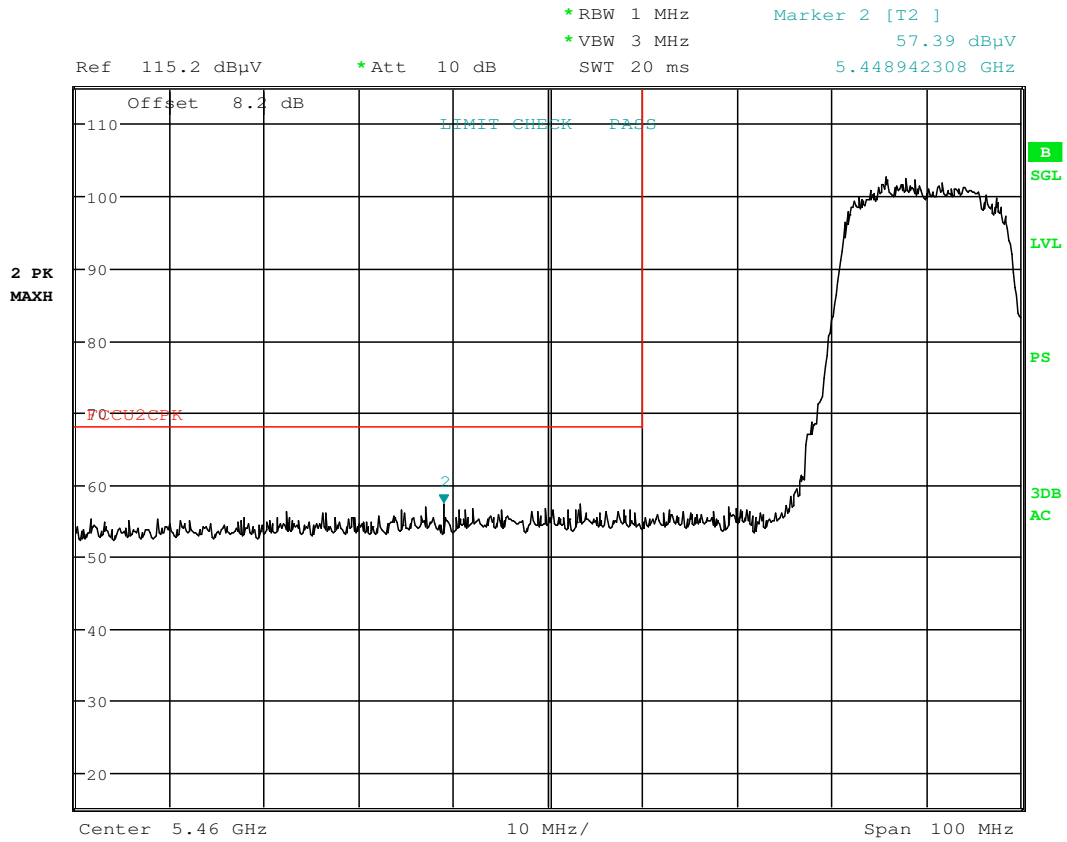
Date: 4.FEB.2017 14:07:15

Plot 7-227. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 187 of 215

MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 14:17:56

Plot 7-228. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 188 of 215	

MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

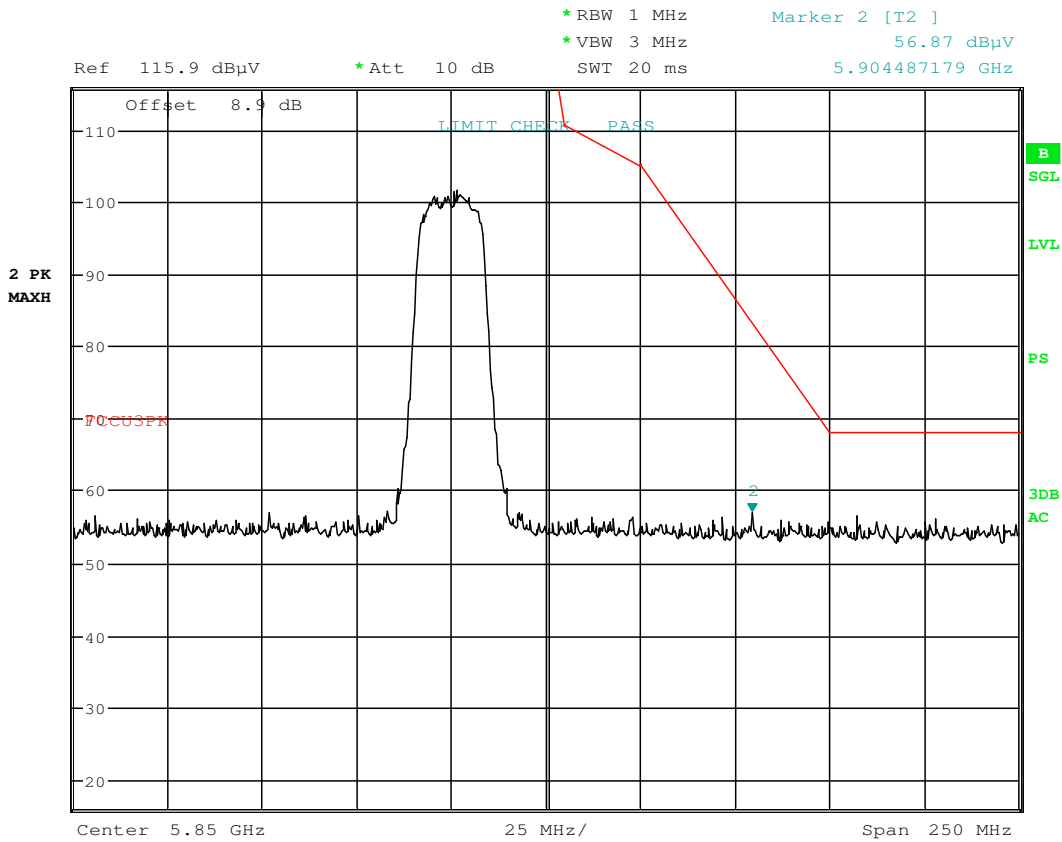
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 4.FEB.2017 14:18:50

Plot 7-229. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 189 of 215

7.7.10 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

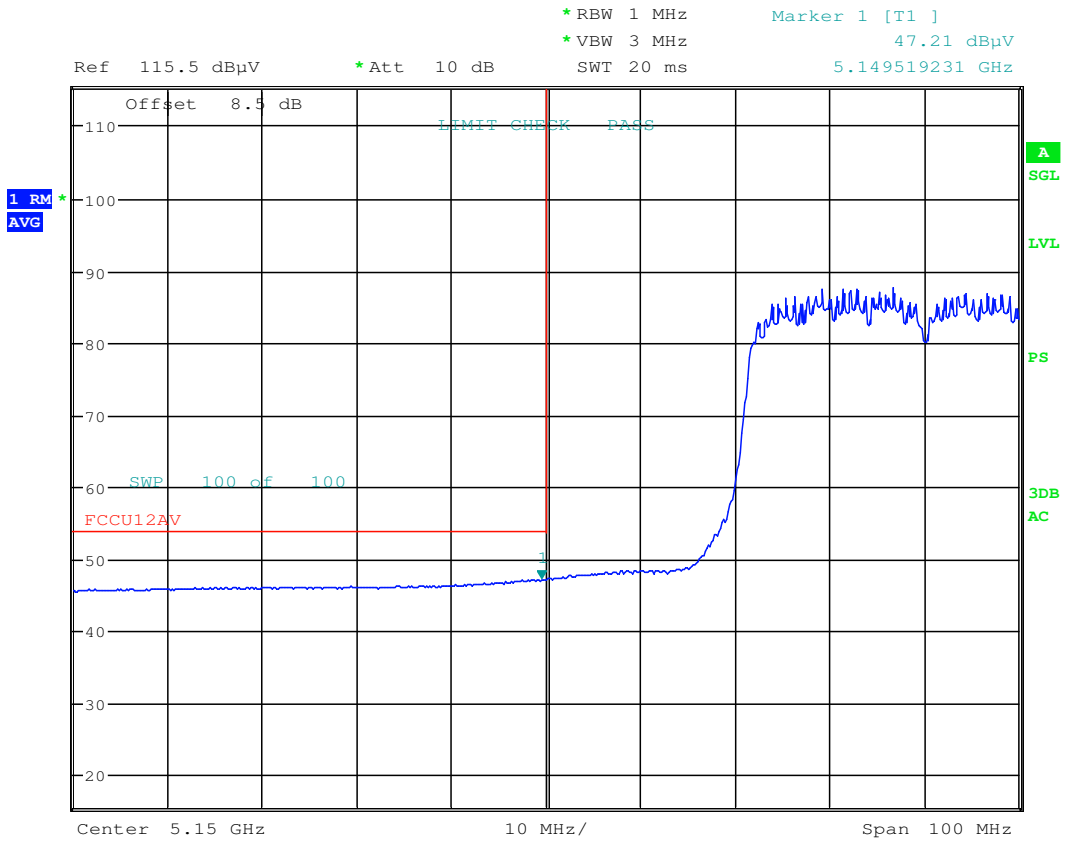
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



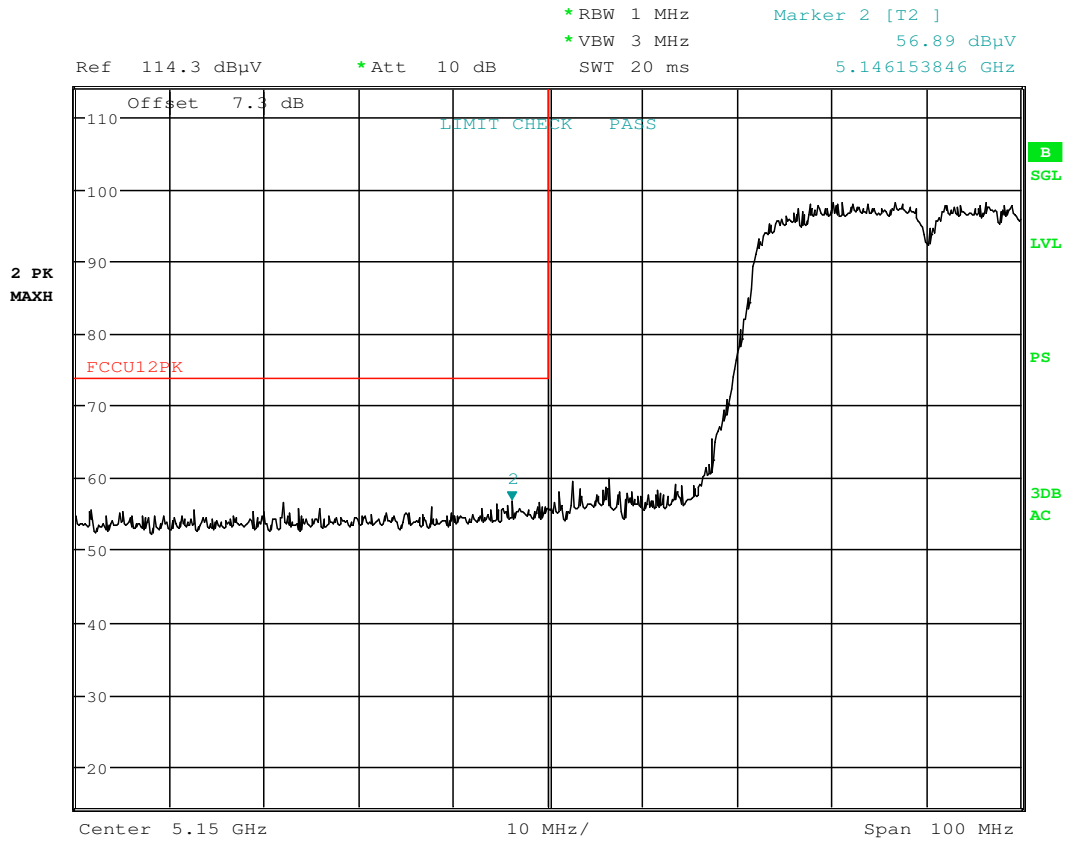
Date: 4.FEB.2017 13:53:36

Plot 7-230. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 190 of 215

MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 13:53:46

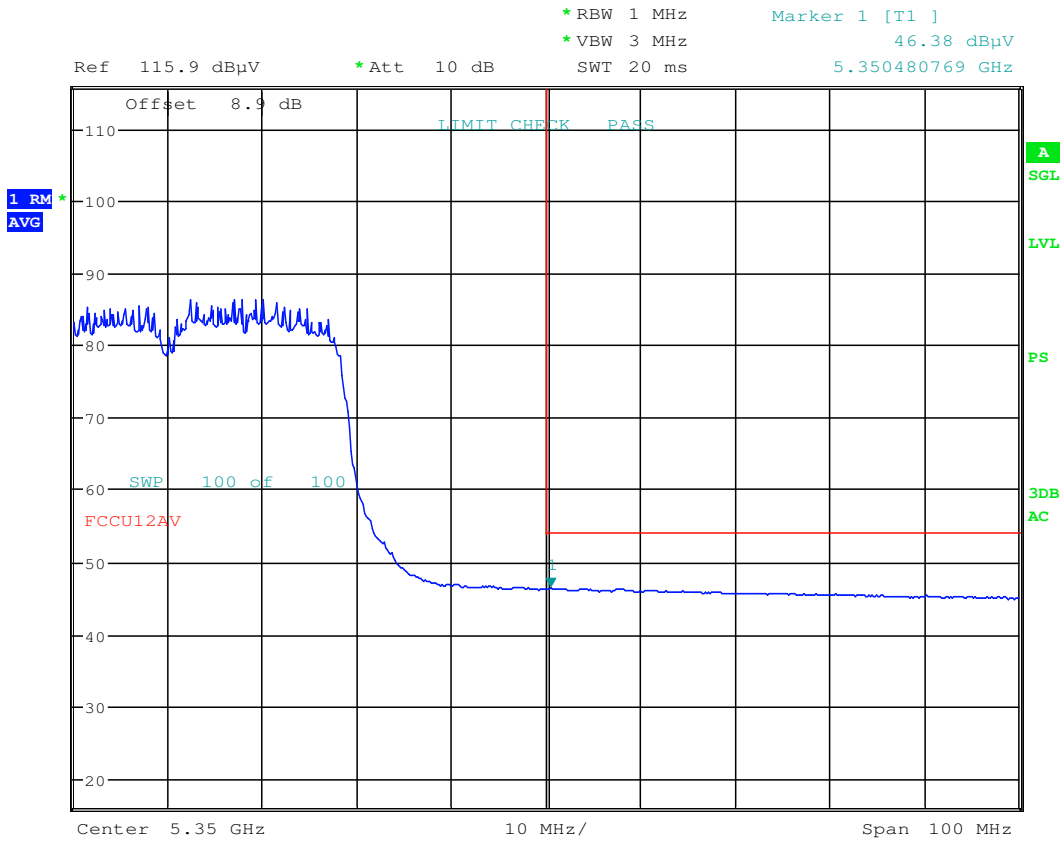
Plot 7-231. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 191 of 215

MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11n (40MHz)
 Worst Case Transfer Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



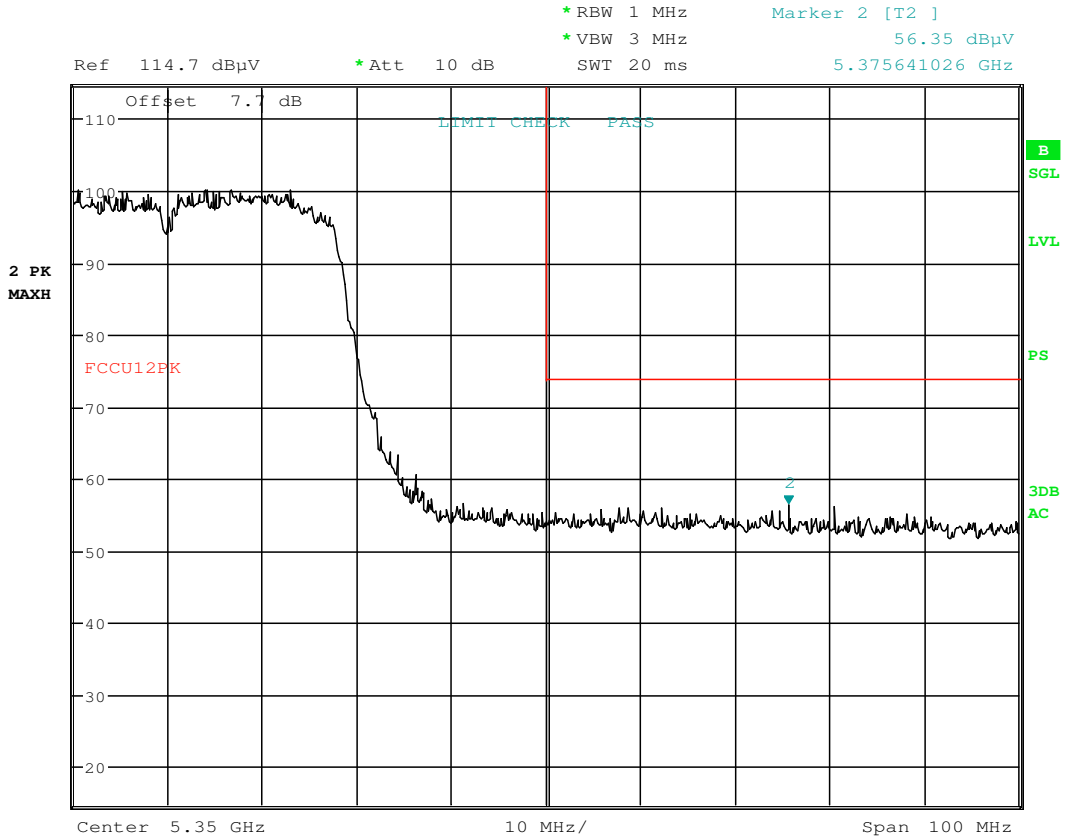
Date: 4.FEB.2017 14:04:08

Plot 7-232. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 192 of 215

MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 14:03:53

Plot 7-233. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet	Page 193 of 215	

MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

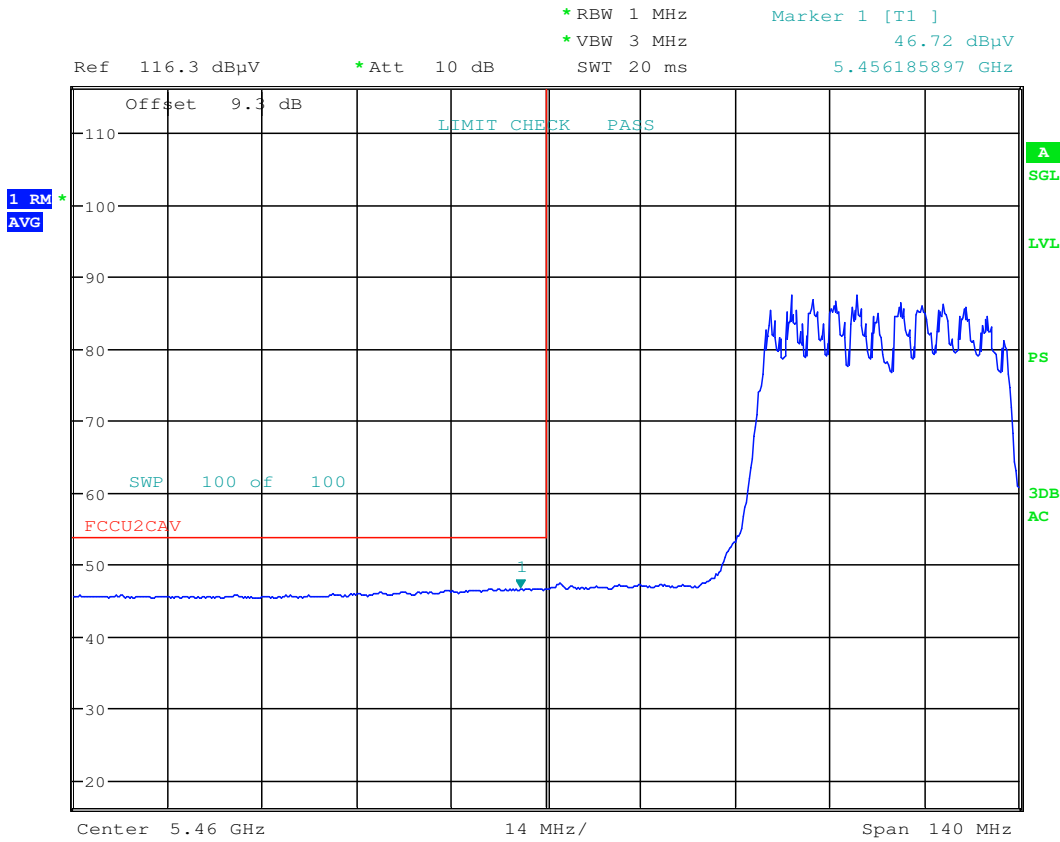
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



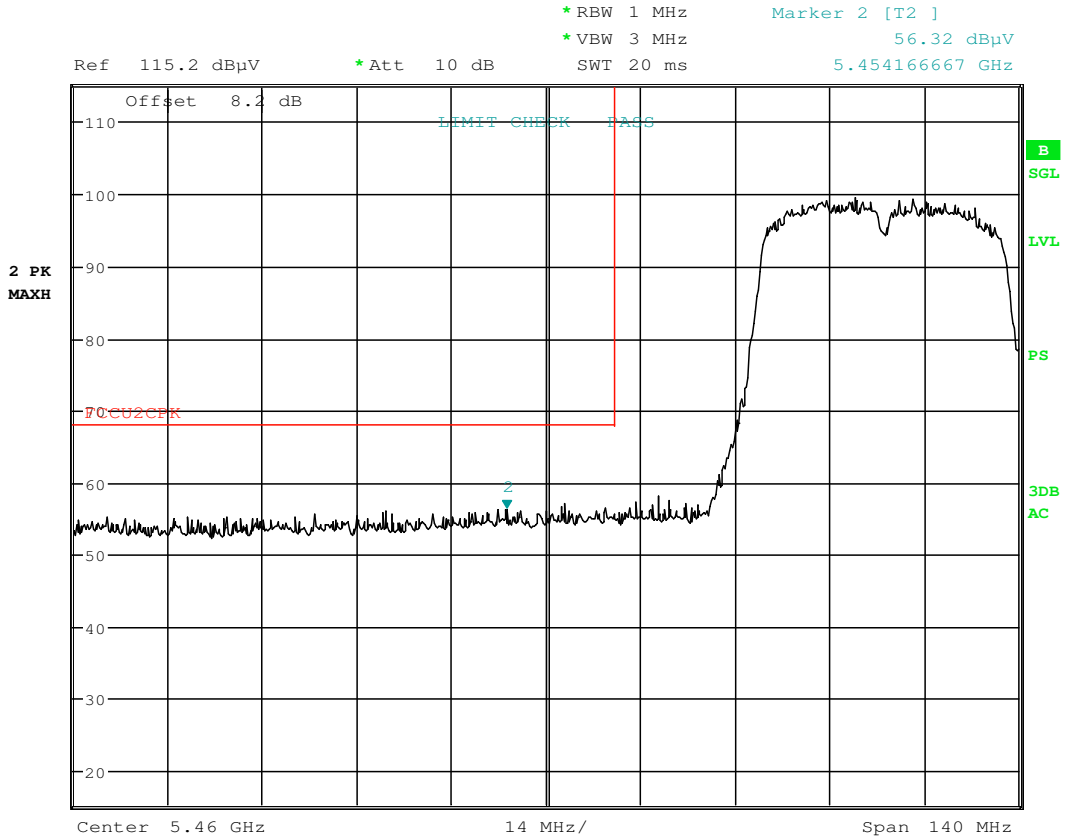
Date: 4.FEB.2017 14:12:36

Plot 7-234. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 194 of 215

MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 14:12:44

Plot 7-235. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 195 of 215

MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

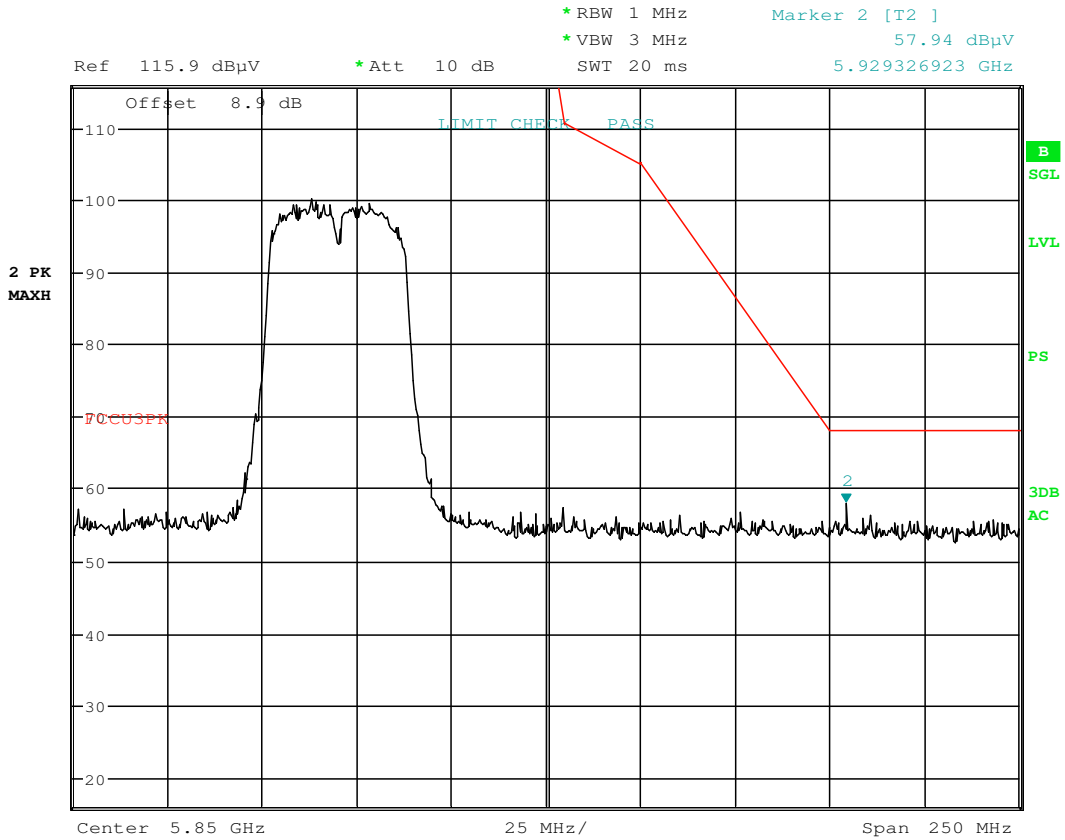
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5795MHz

Channel: 159



Date: 4.FEB.2017 14:20:39

Plot 7-236. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 196 of 215

7.7.11 MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

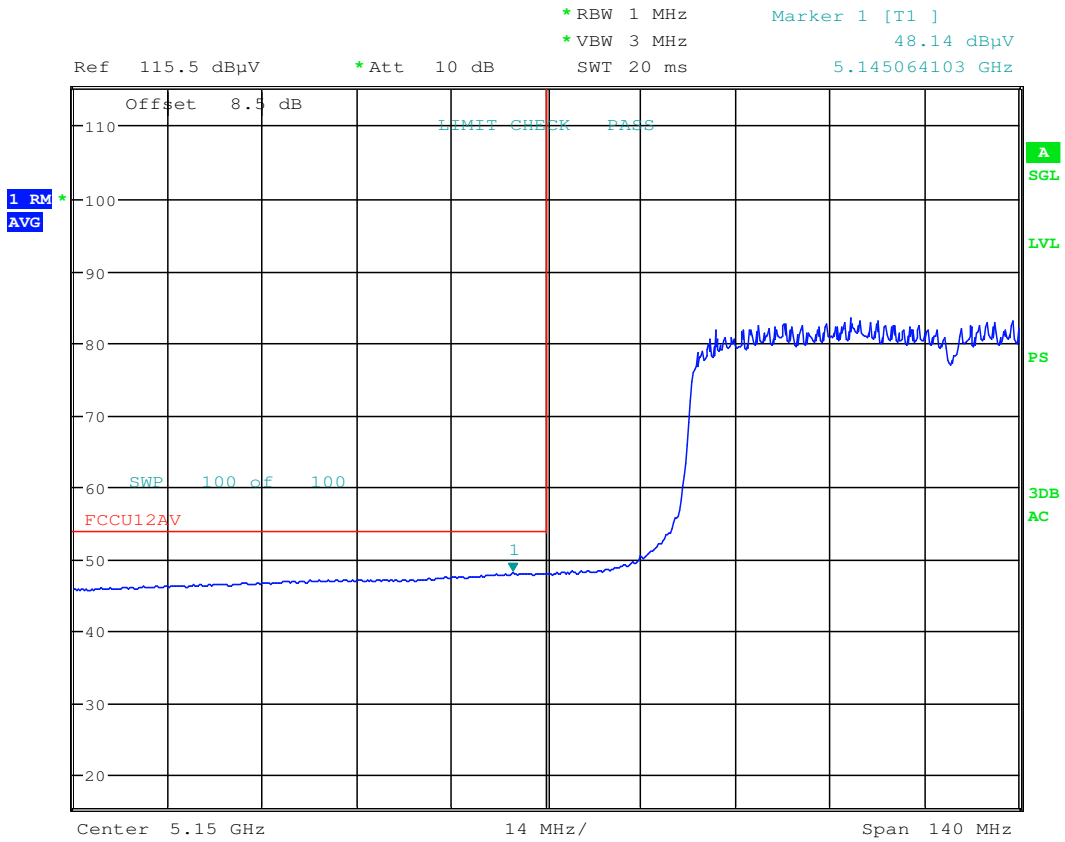
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



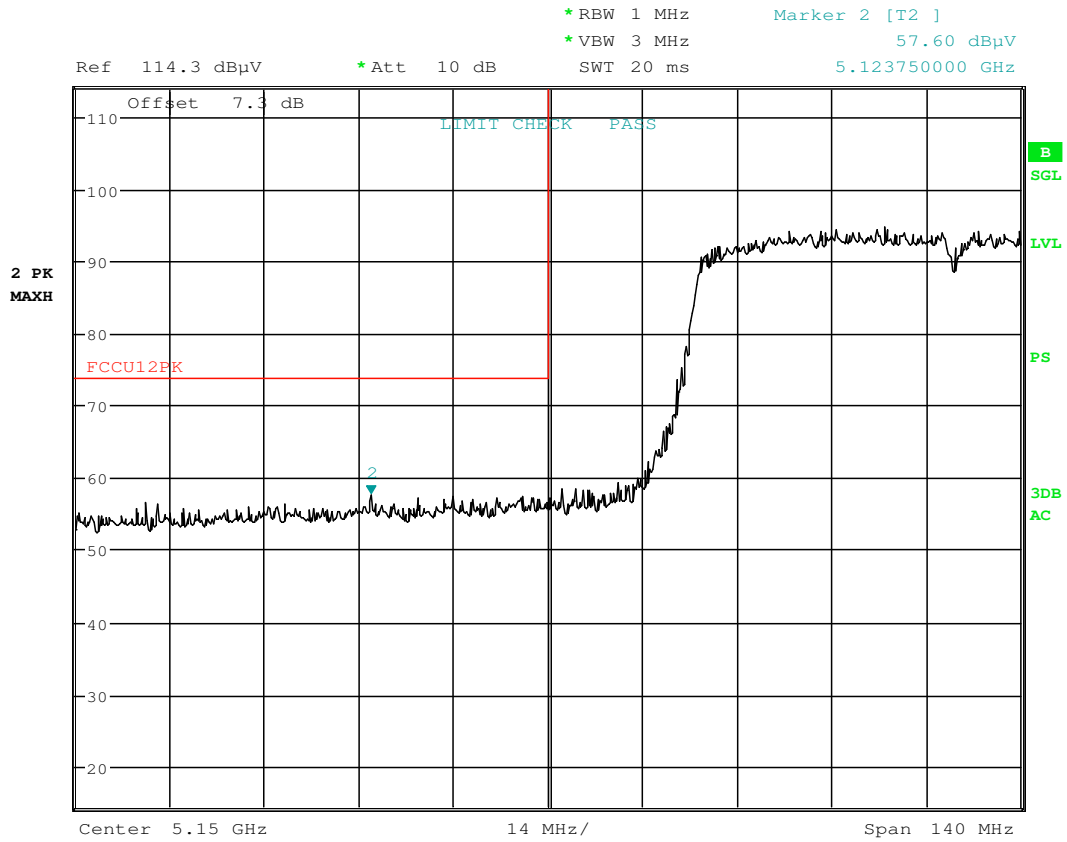
Date: 4.FEB.2017 13:56:26

Plot 7-237. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1701270042-05.A3L	Test Dates: 2/1-3/2/2017	EUT Type: Portable Tablet		Page 197 of 215

MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



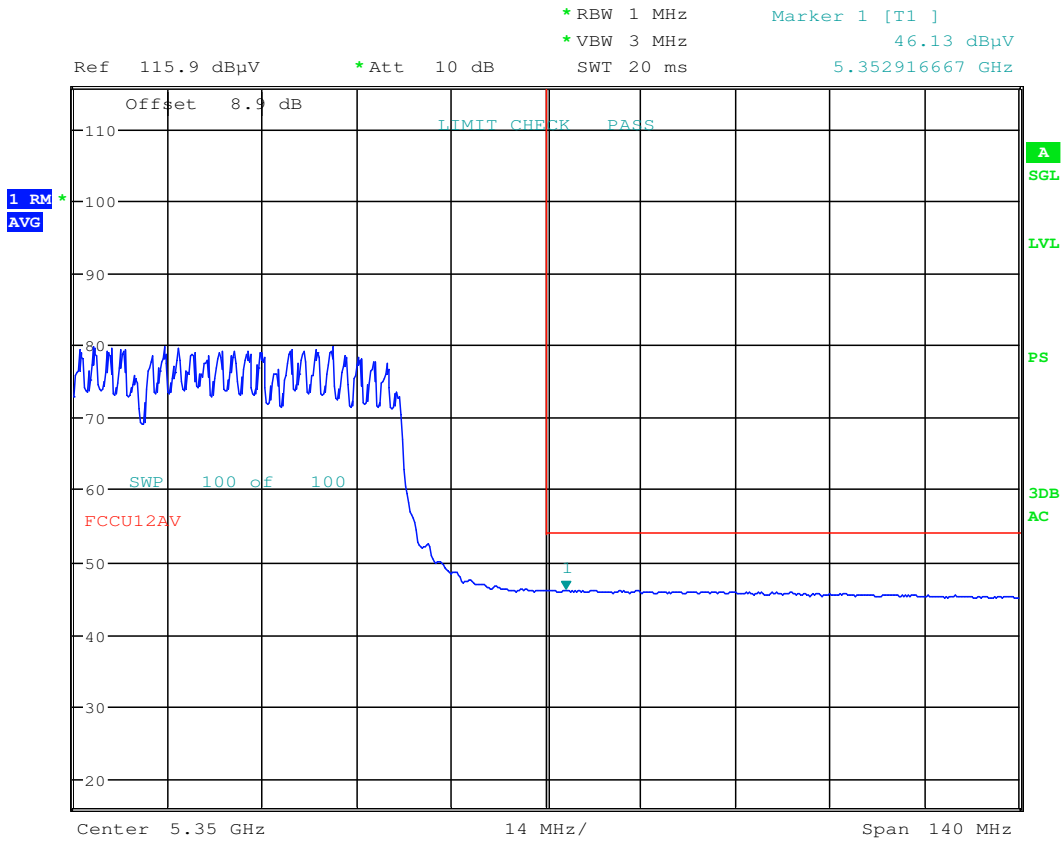
Date: 4.FEB.2017 13:56:15

Plot 7-238. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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MIMO Radiated Band Edge Measurements (80MHz BW)
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Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58



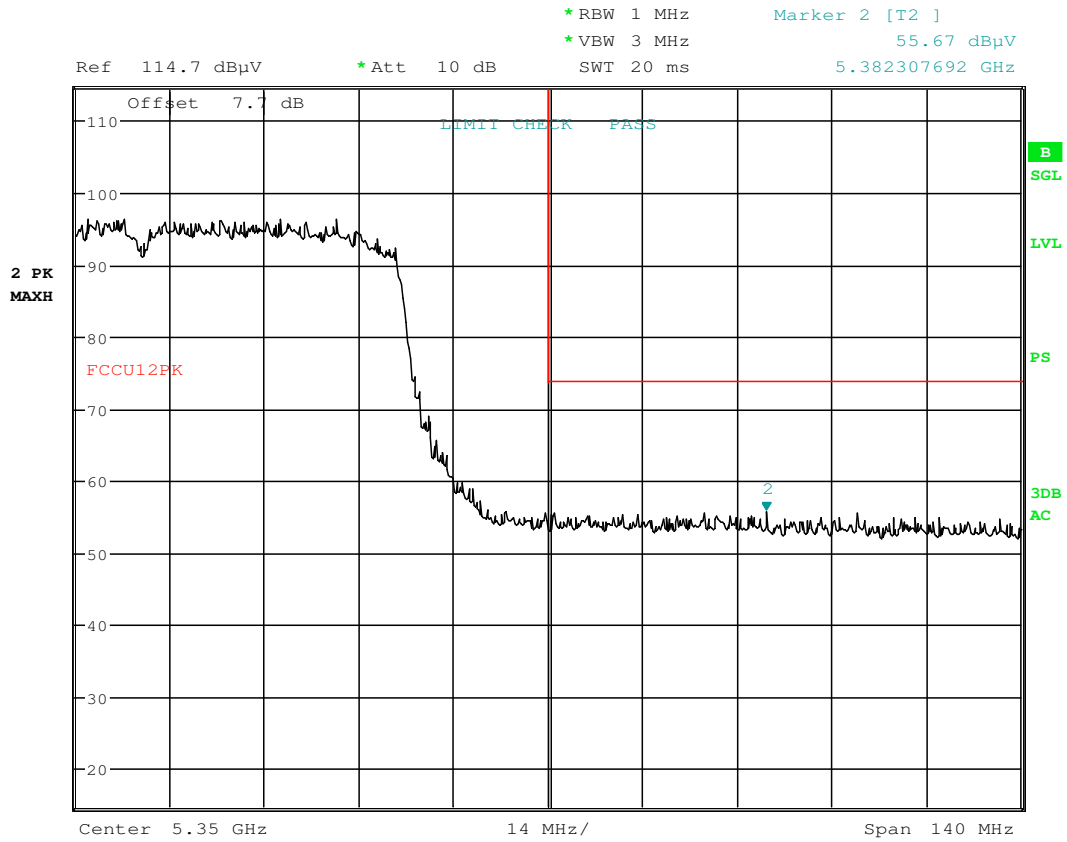
Date: 4.FEB.2017 14:05:18

Plot 7-239. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 14:05:02

Plot 7-240. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

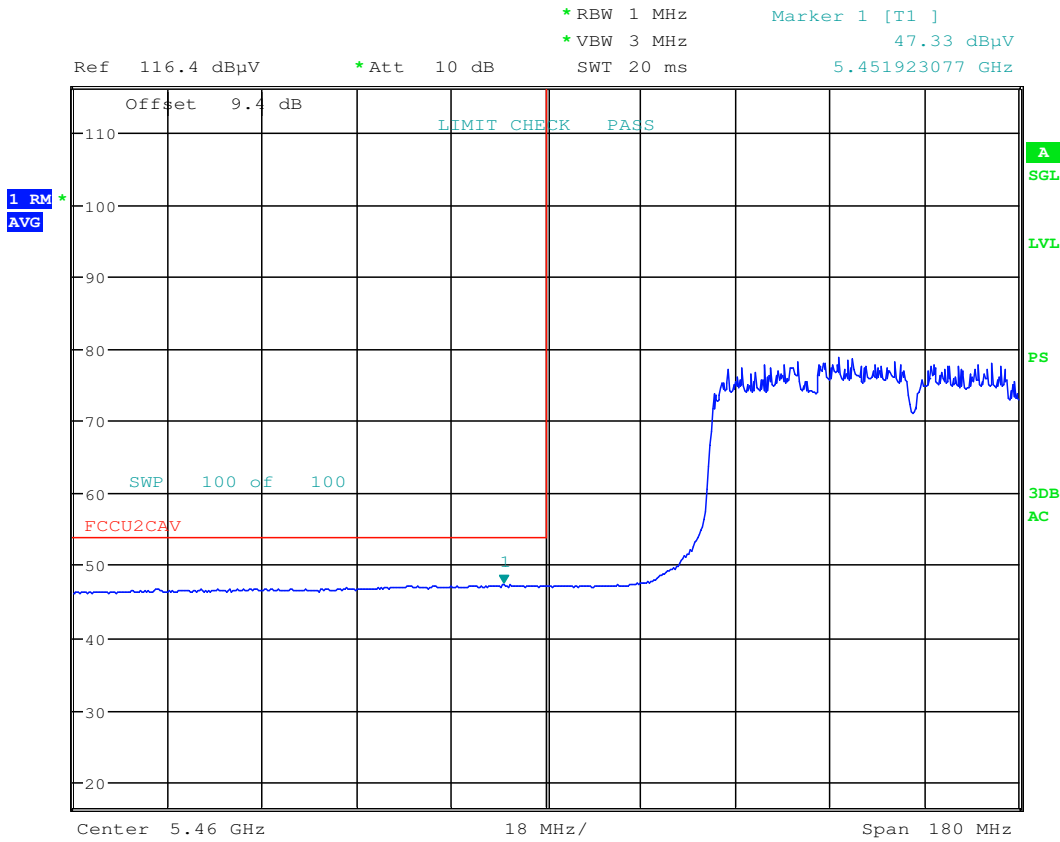
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



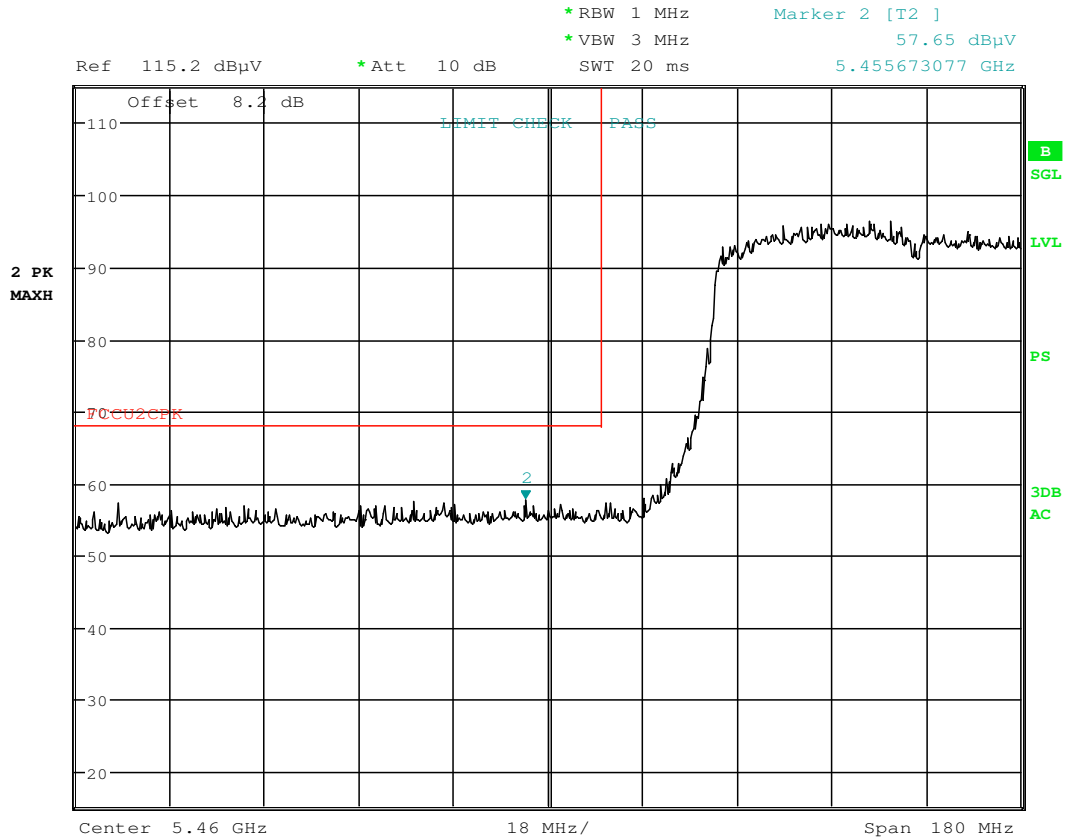
Date: 4.FEB.2017 14:13:43

Plot 7-241. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209



Date: 4.FEB.2017 14:13:22

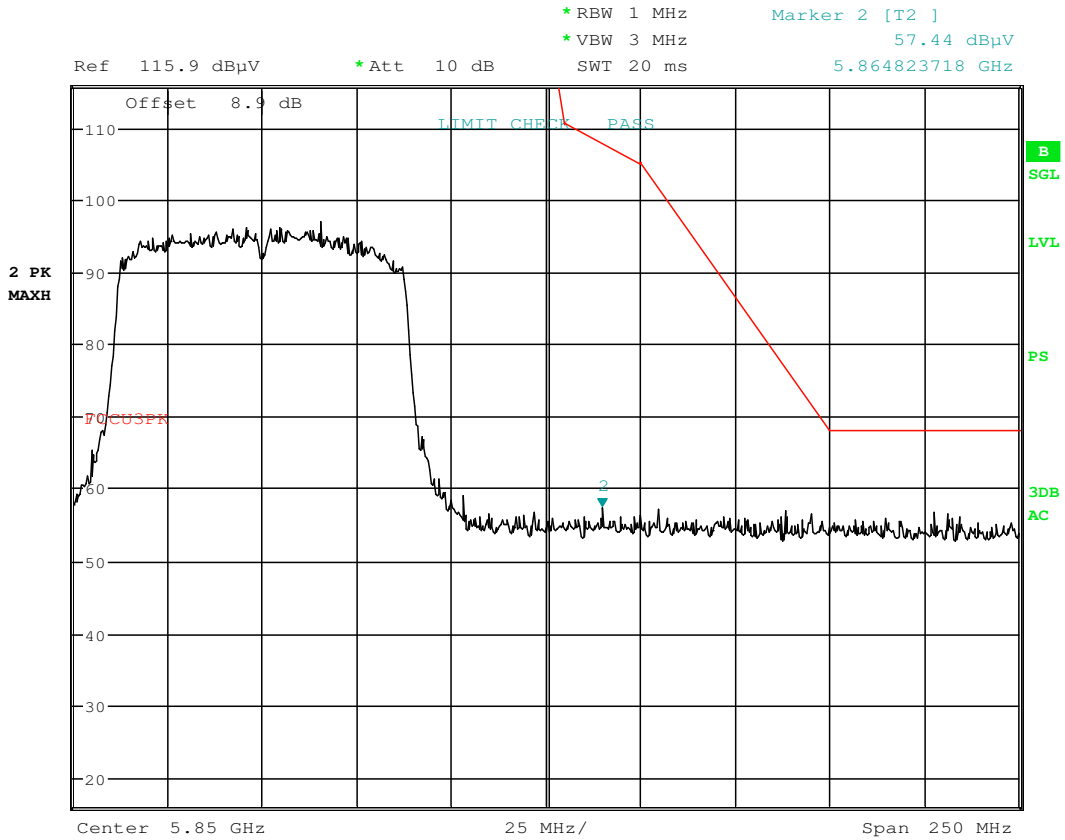
Plot 7-242. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Date: 4.FEB.2017 14:21:22

Plot 7-243. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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7.8 Radiated Spurious Emissions Measurements – Below 1GHz

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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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 7-52 per Section 15.209.

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-52. Radiated Limits



Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

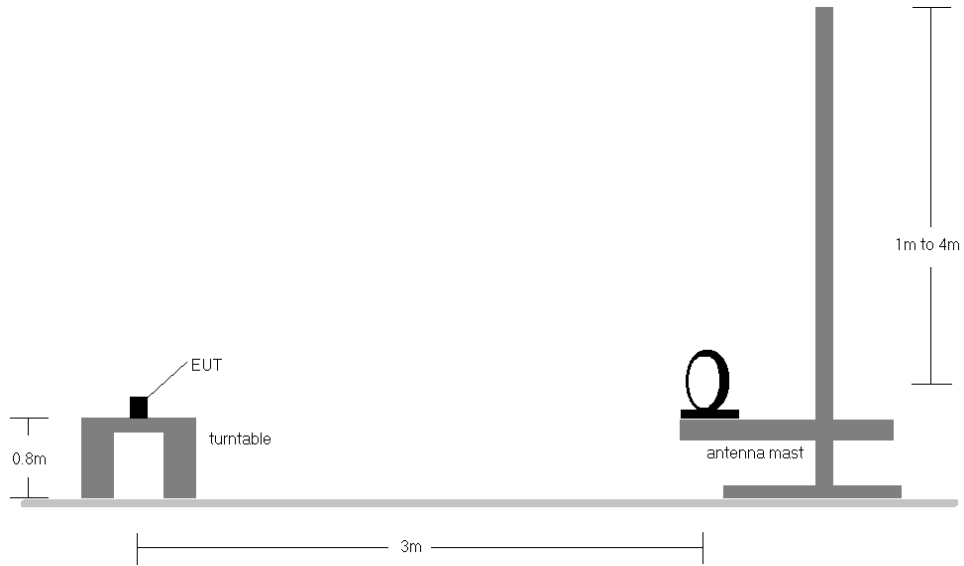


Figure 7-6. Radiated Test Setup < 30MHz

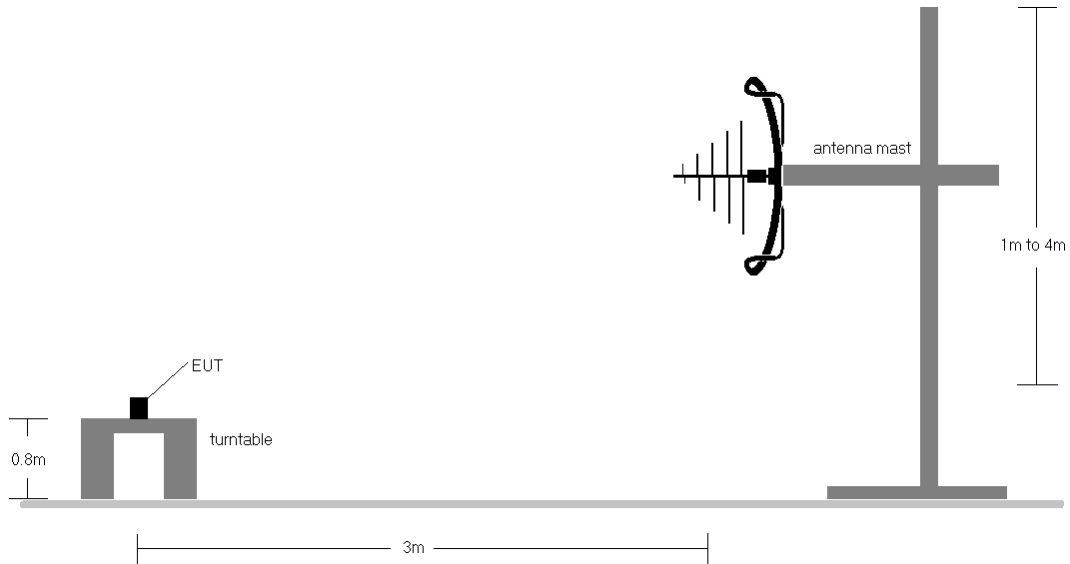






Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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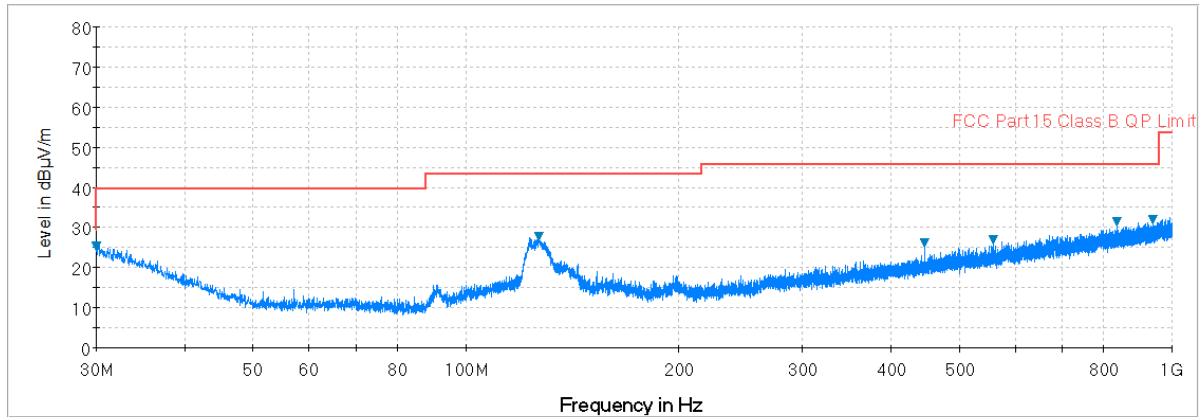
Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-52.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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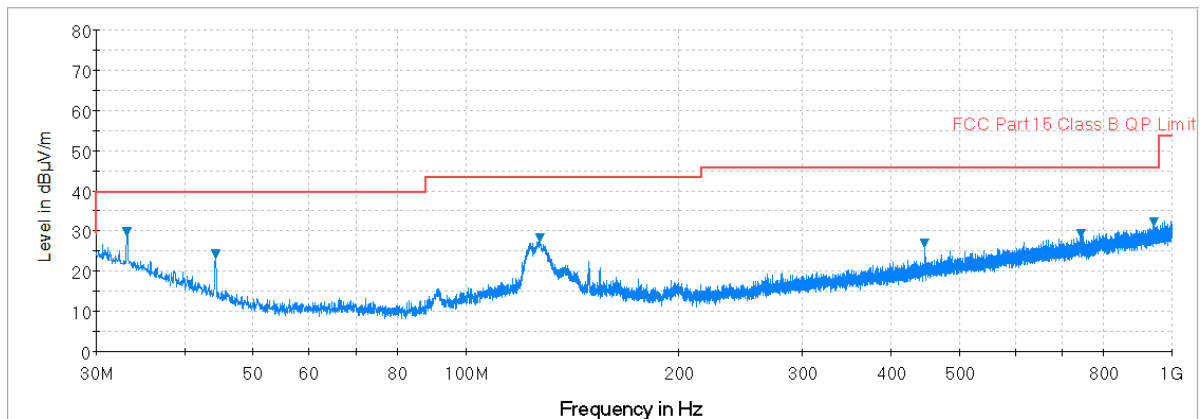
Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

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Preview Result 1-PK+ FCC Part 15 Class B QP Limit Final_Result PK+

Plot 7-244. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)



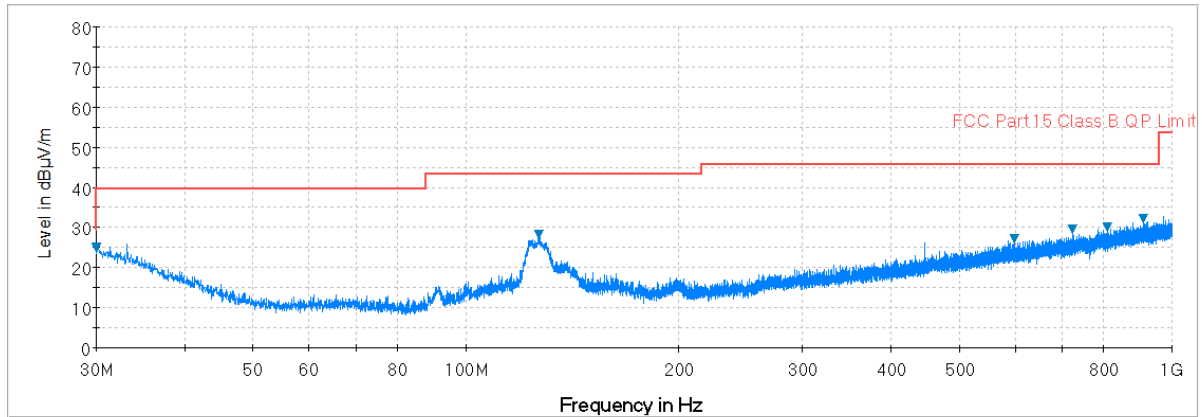
Preview Result 1-PK+ FCC Part 15 Class B QP Limit Final_Result PK+

Plot 7-245. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

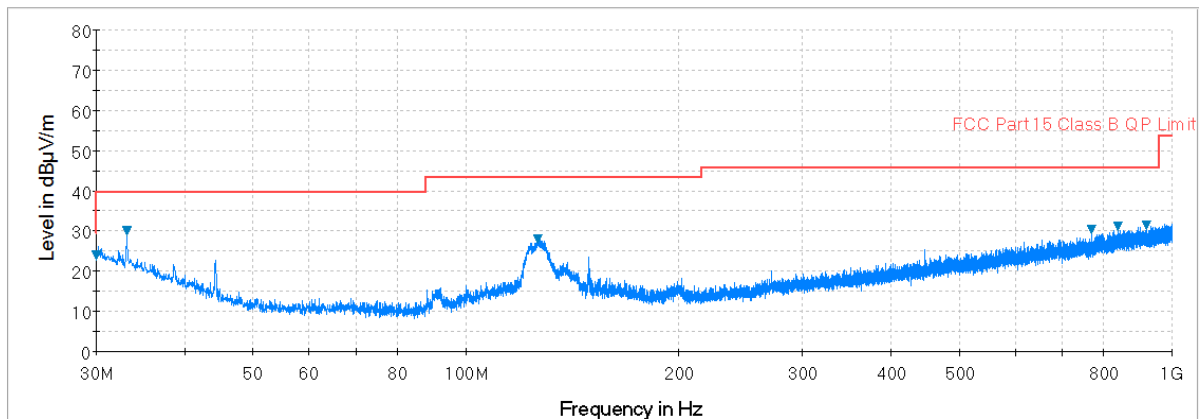
FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)

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Plot 7-246. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)



Plot 7-247. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.9 Line-Conducted Test Data

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Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-53. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2



Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

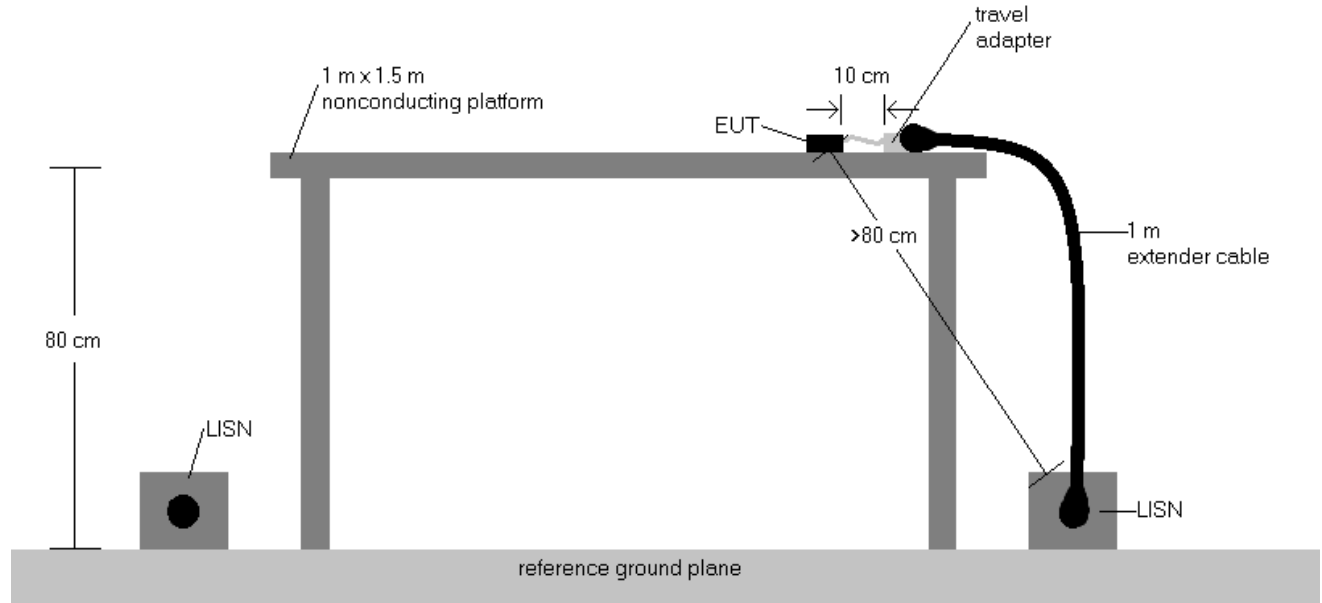




Figure 7-8. Test Instrument & Measurement Setup

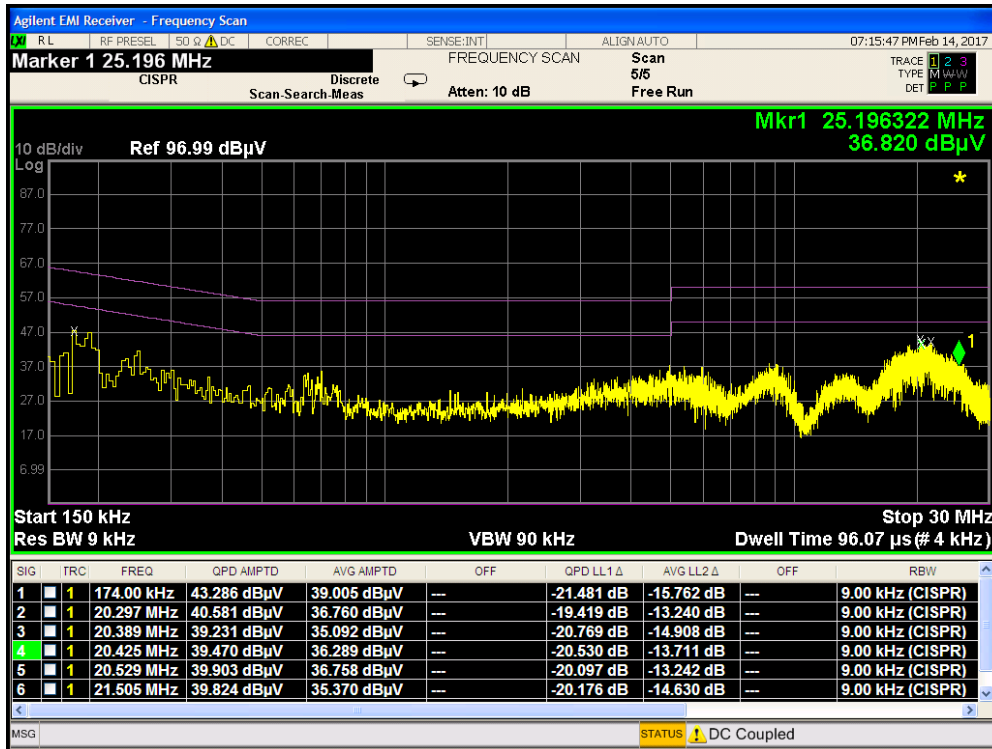
Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

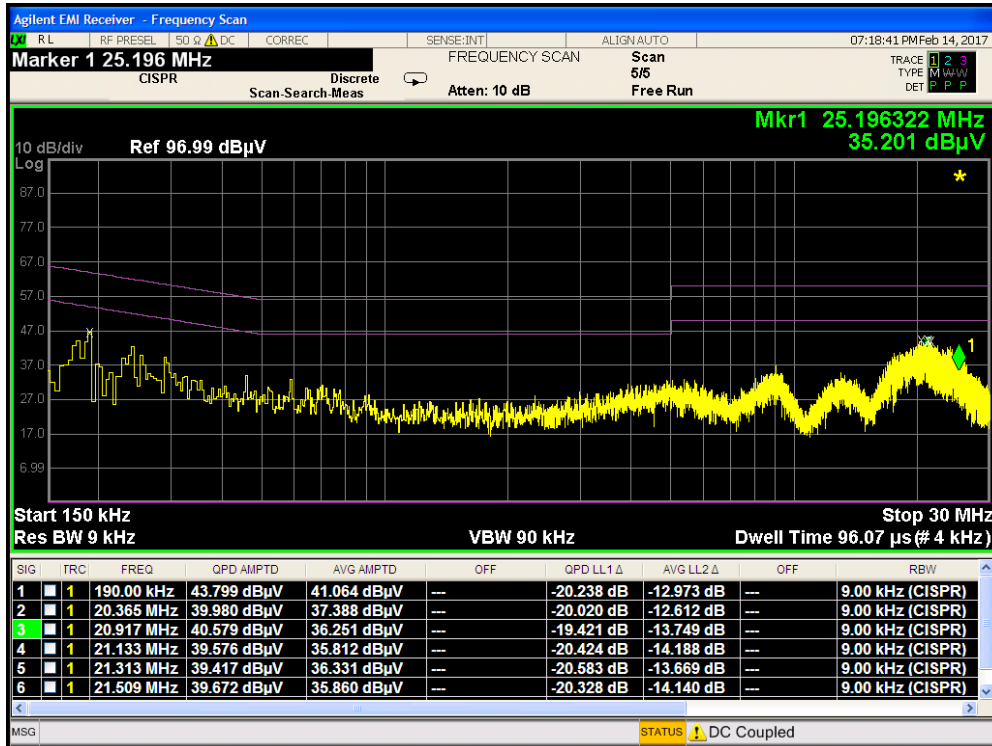
FCC ID: A3LSMT827V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Line-Conducted Test Data

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Plot 7-248. Line Conducted Plot with 802.11a UNII Band 1 (L1)

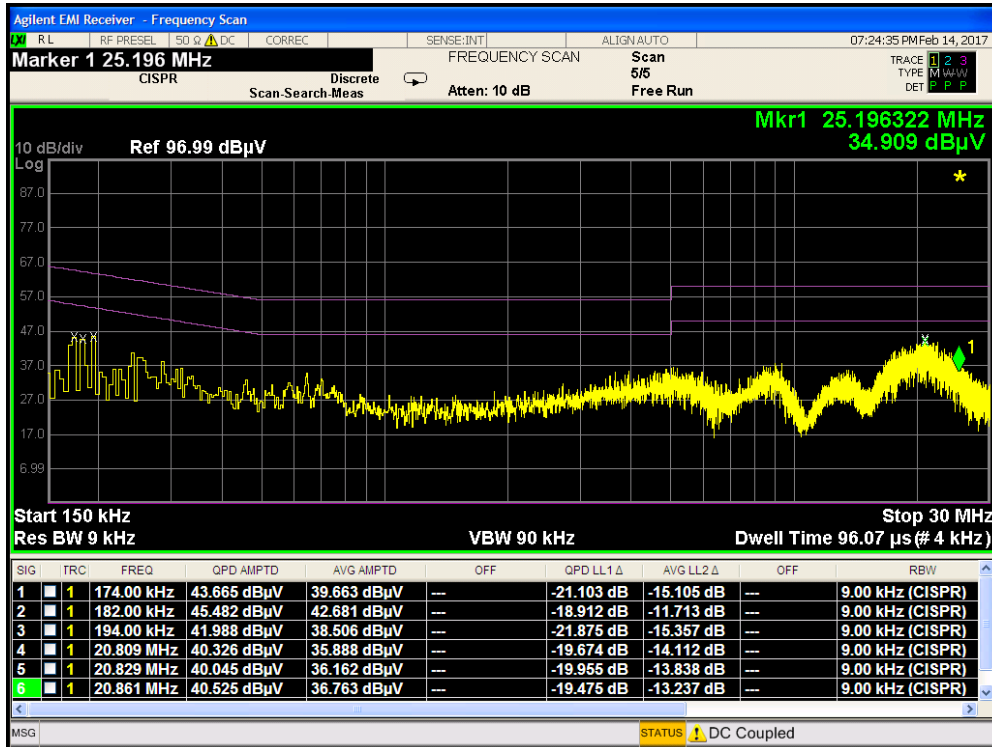


Plot 7-249. Line Conducted Plot with 802.11a UNII Band 1 (N)

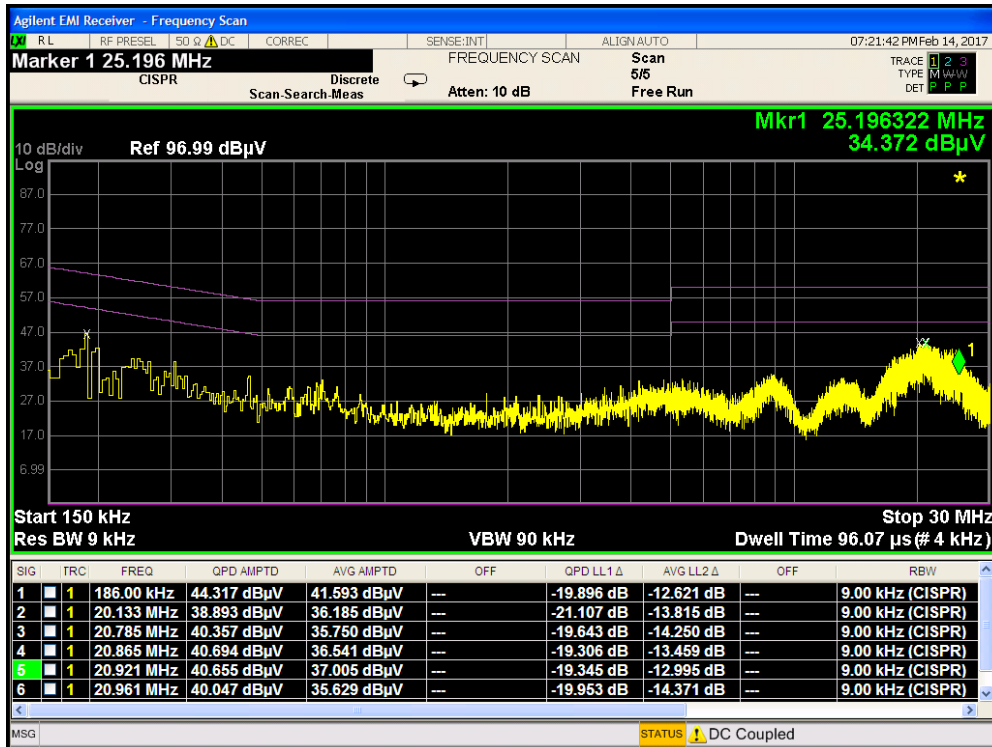
FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Line-Conducted Test Data

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Plot 7-250. Line Conducted Plot with 802.11a UNII Band 2A (L1)

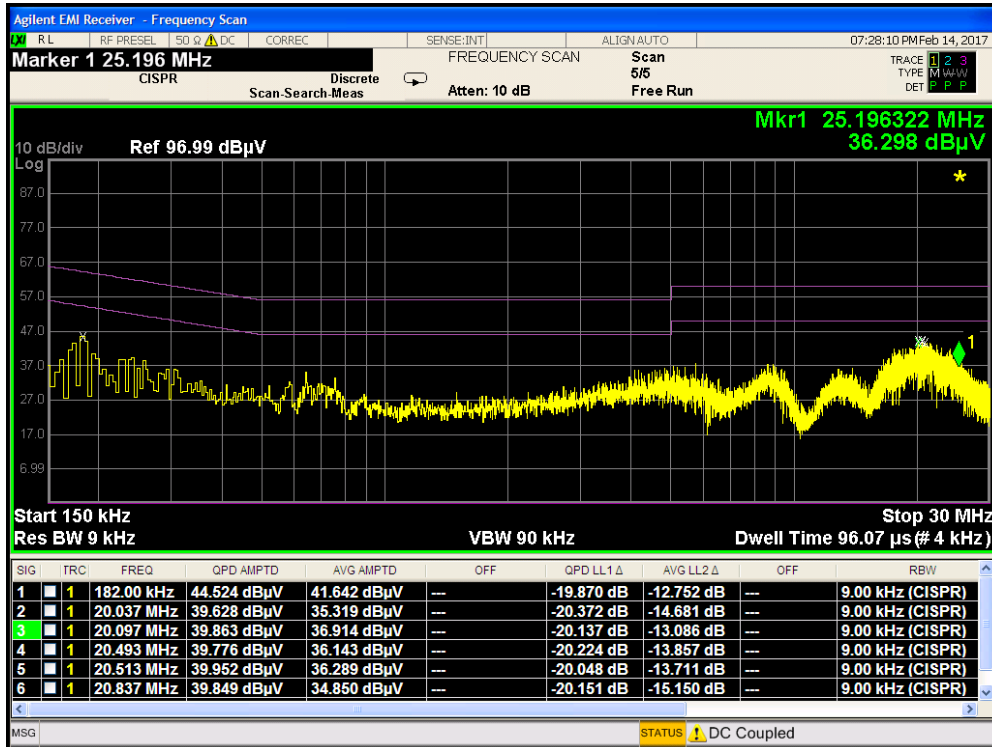


Plot 7-251. Line Conducted Plot with 802.11a UNII Band 2A (N)

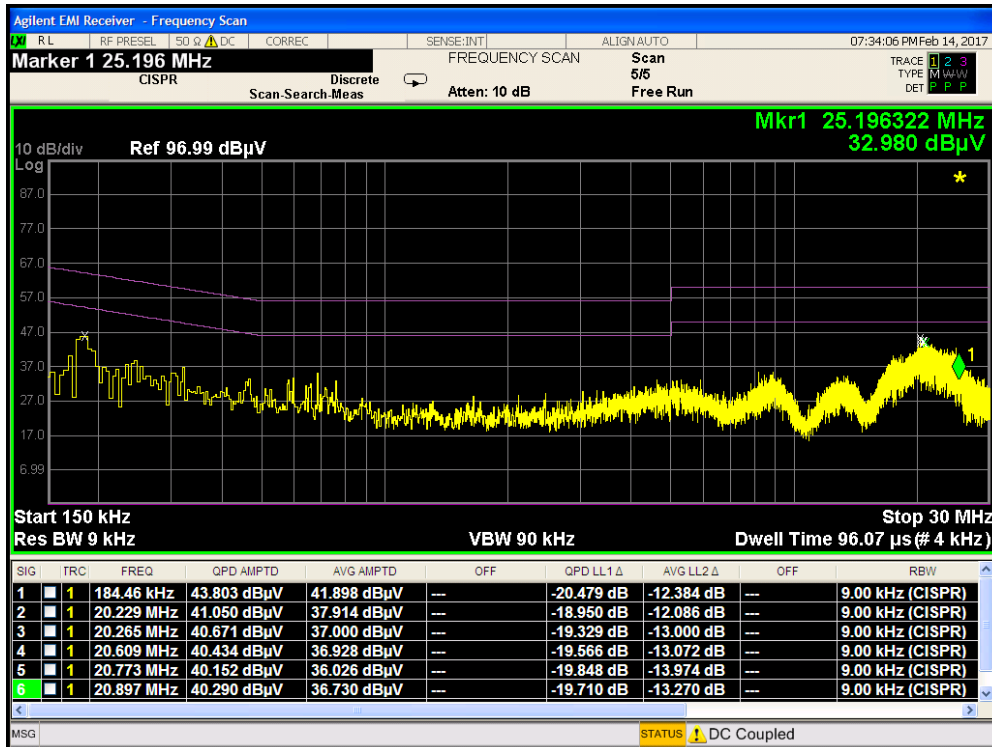
FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Line-Conducted Test Data

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Plot 7-252. Line Conducted Plot with 802.11a UNII Band 2C (L1)

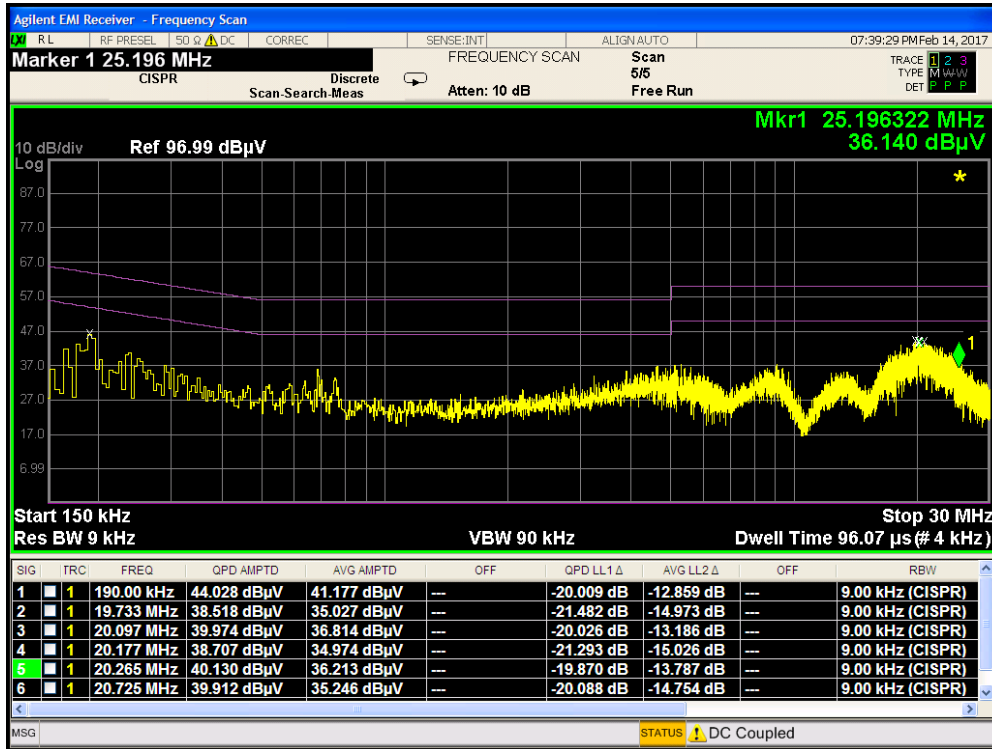


Plot 7-253. Line Conducted Plot with 802.11a UNII Band 2C (N)

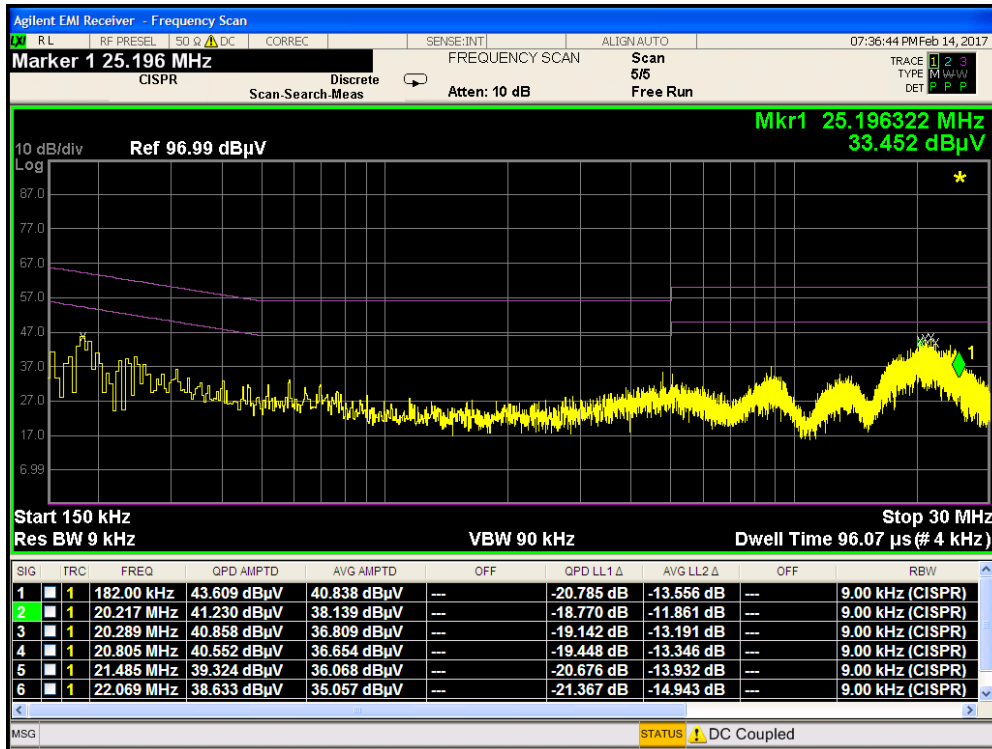
FCC ID: A3LSMT827V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Line-Conducted Test Data

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Plot 7-254. Line Conducted Plot with 802.11a UNII Band 3 (L1)





Plot 7-255. Line Conducted Plot with 802.11a UNII Band 3 (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMT827V** is in compliance with Part 15E of the FCC Rules.

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