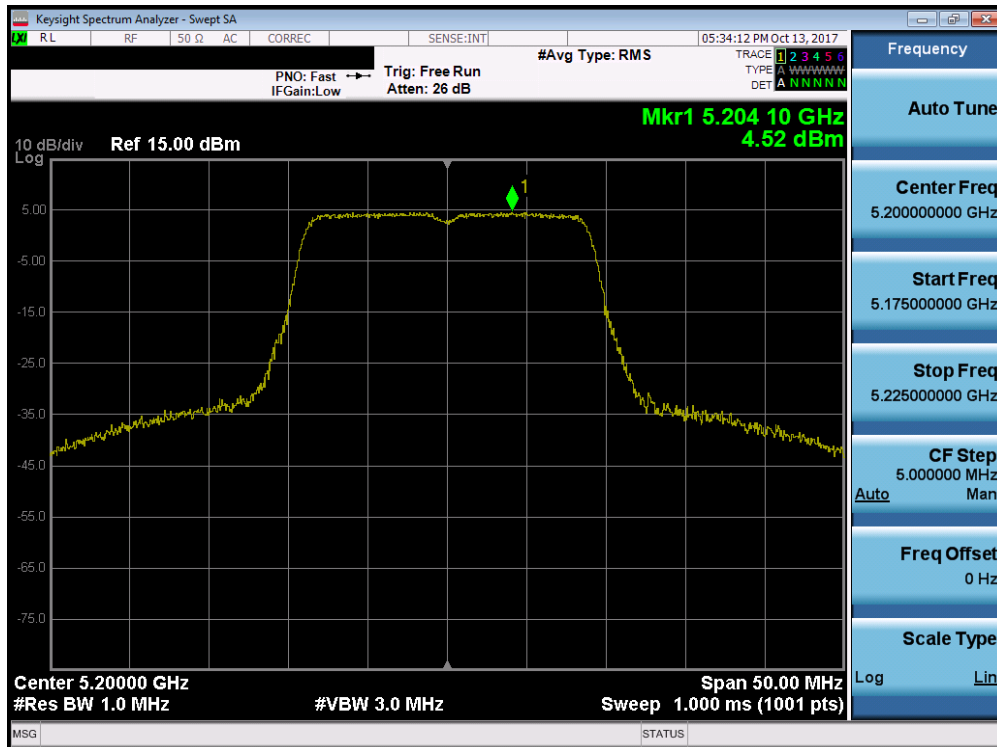
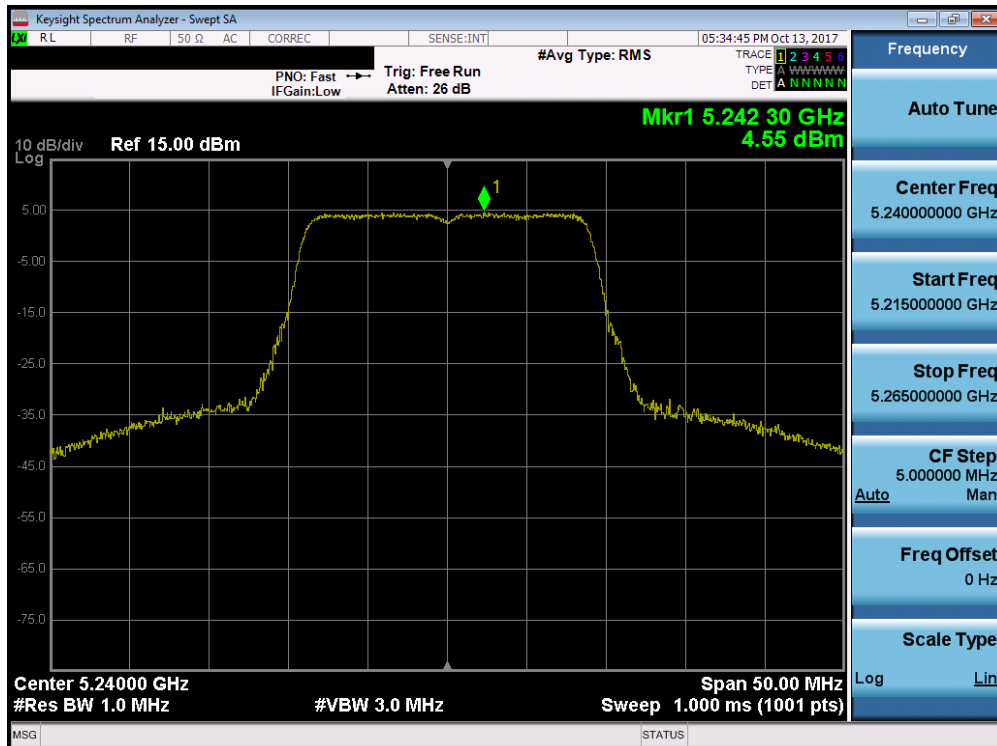


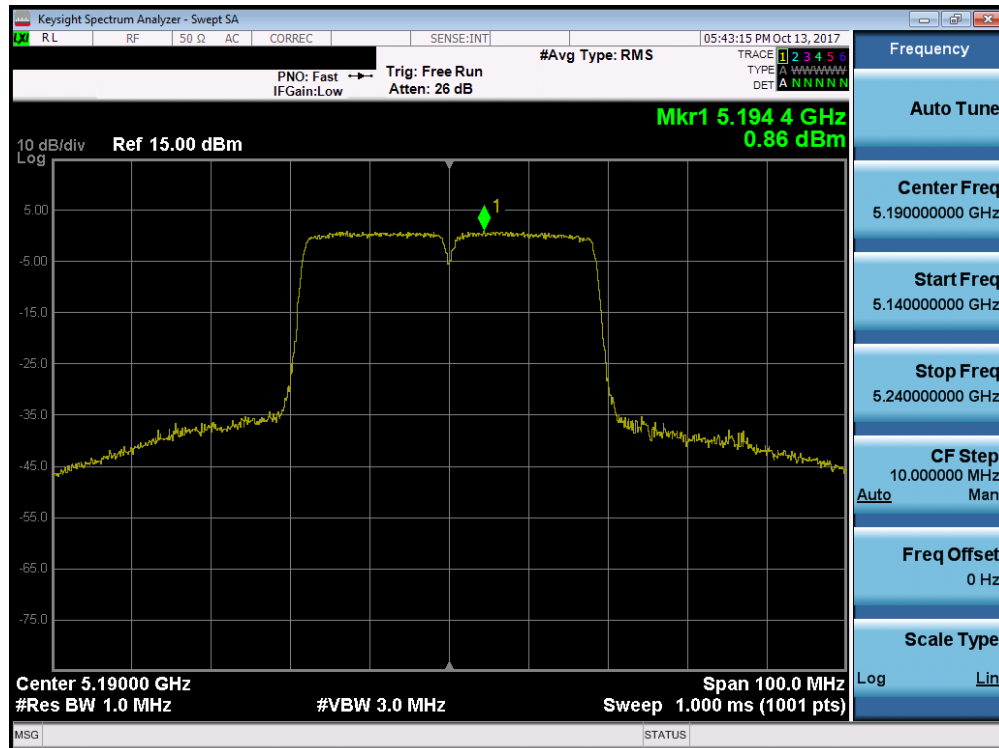


Plot 7-122. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

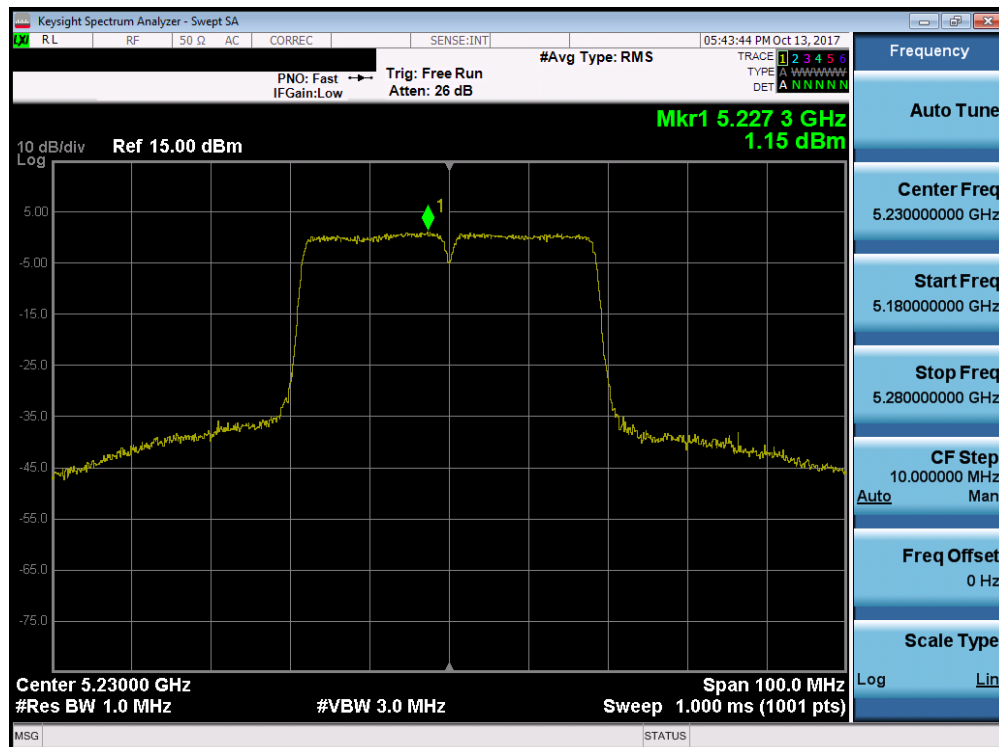


Plot 7-123. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 91 of 207

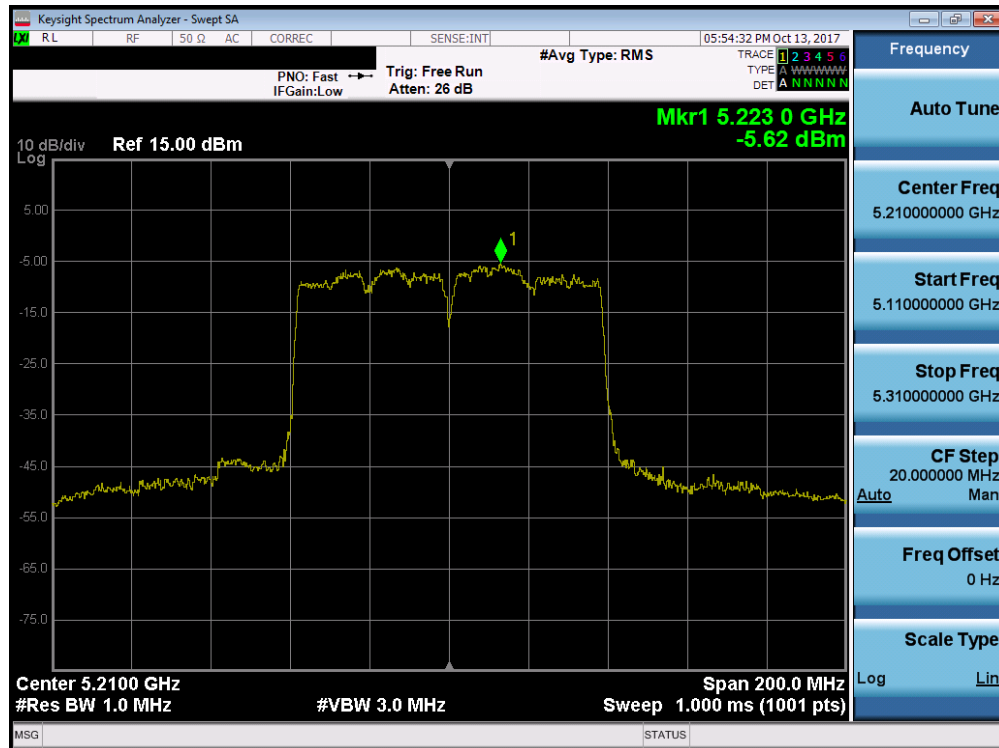


Plot 7-124. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

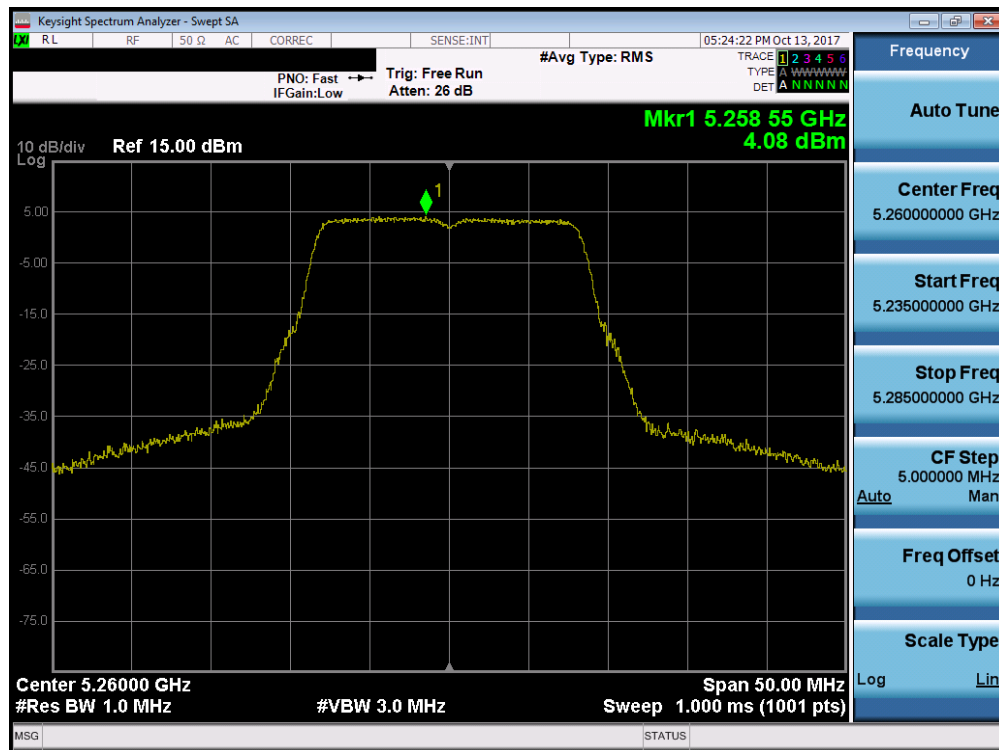


Plot 7-125. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 92 of 207

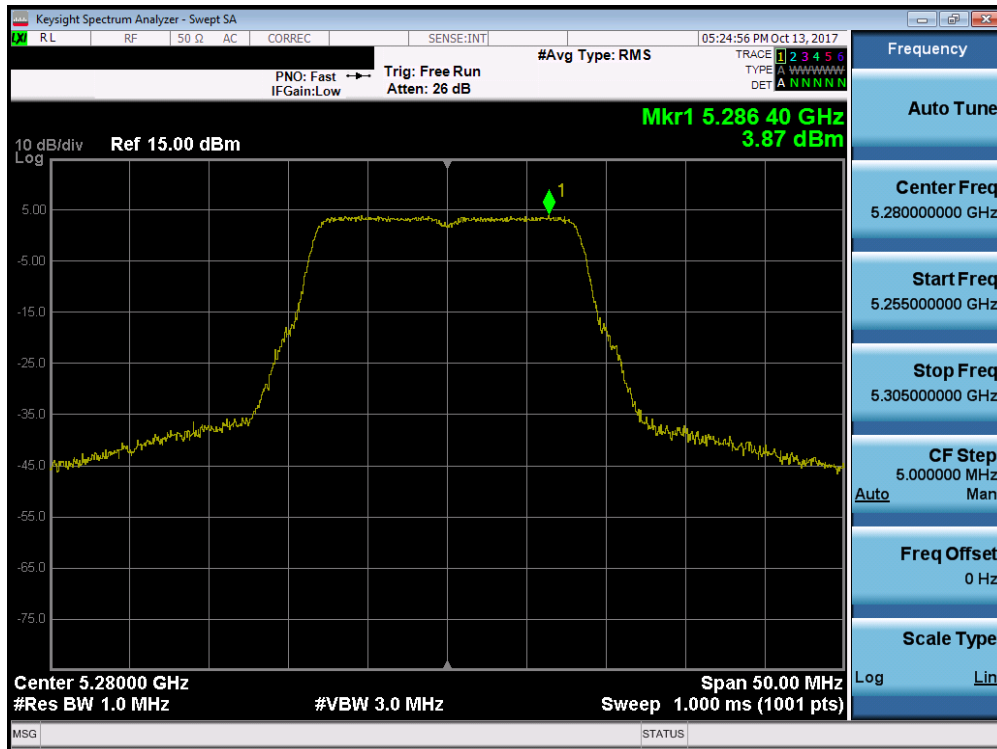


Plot 7-126. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

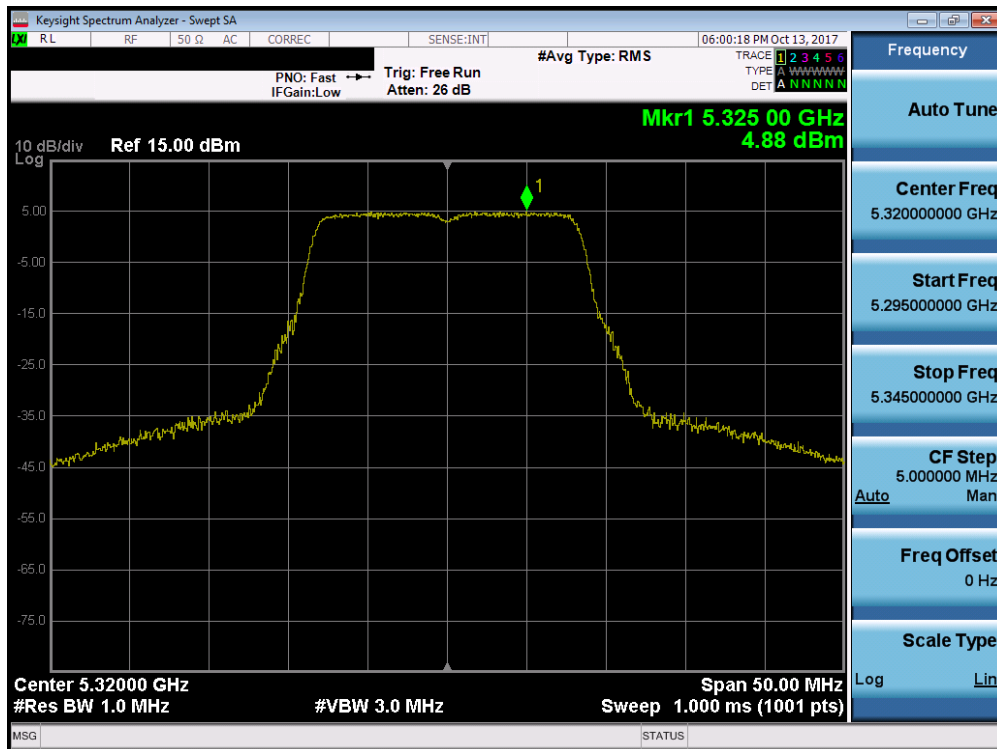


Plot 7-127. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 93 of 207

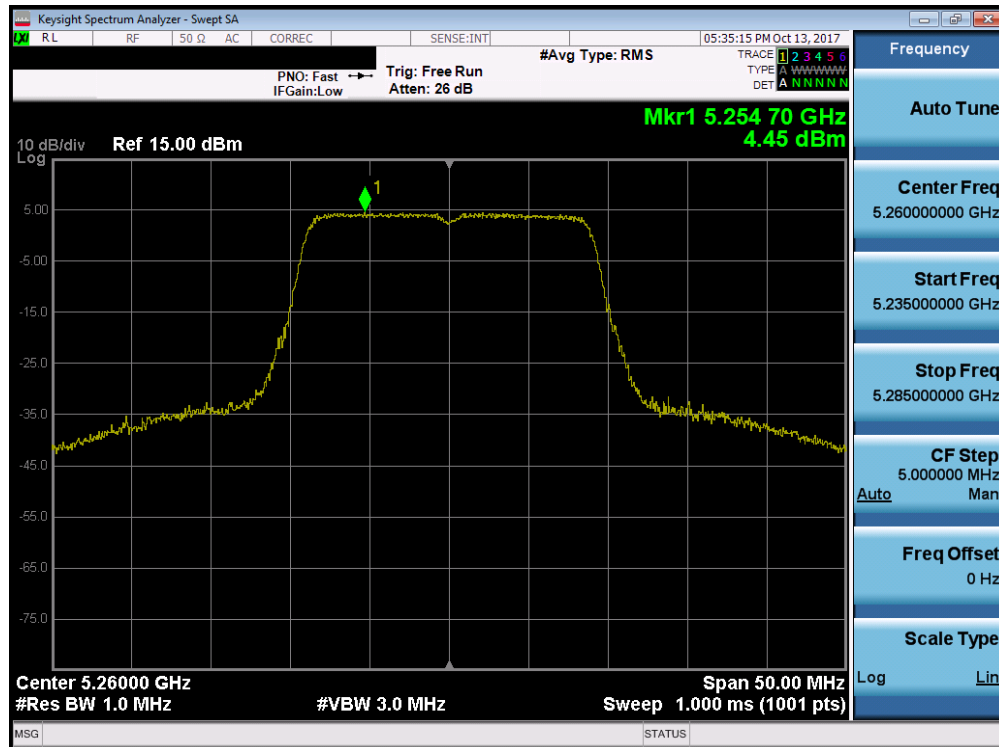


Plot 7-128. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

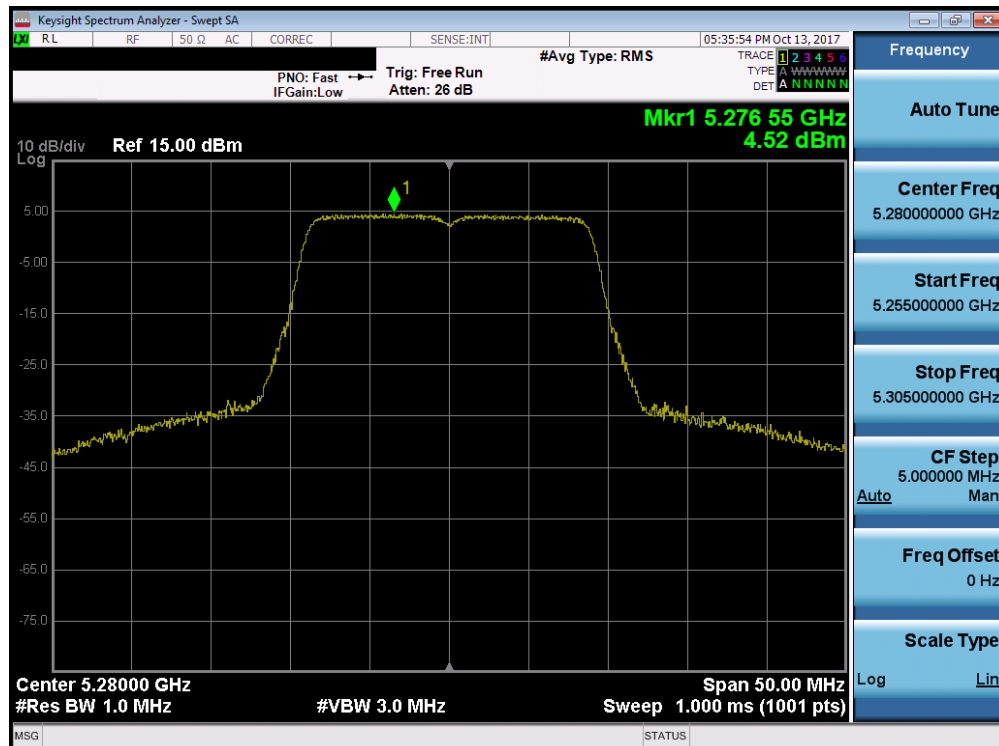


Plot 7-129. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 94 of 207

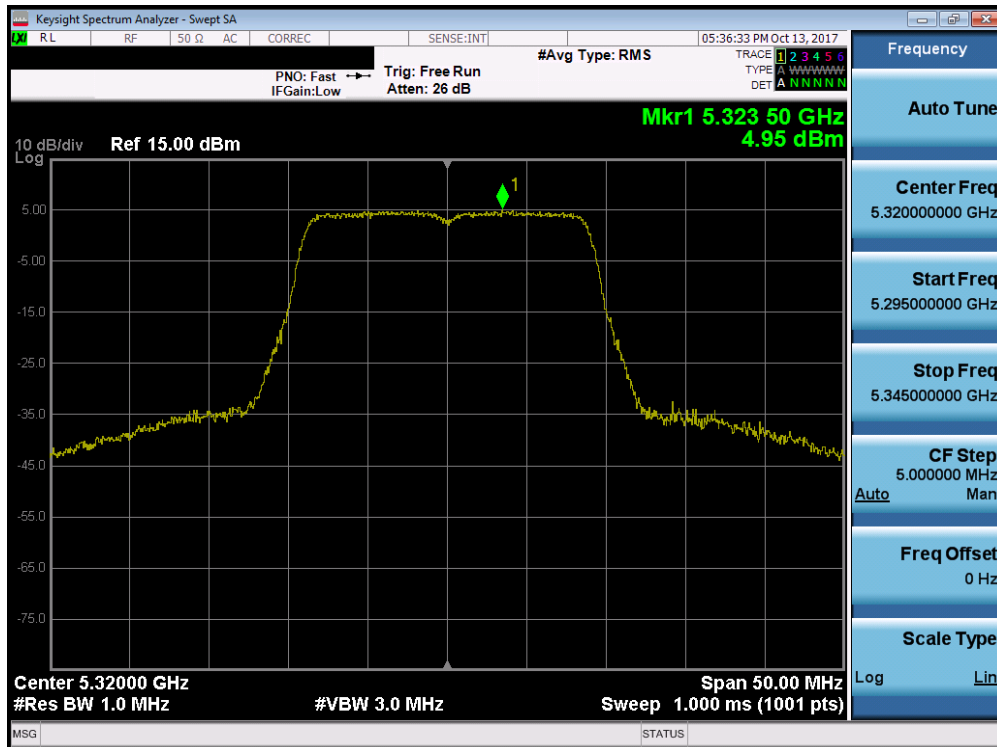


Plot 7-130. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

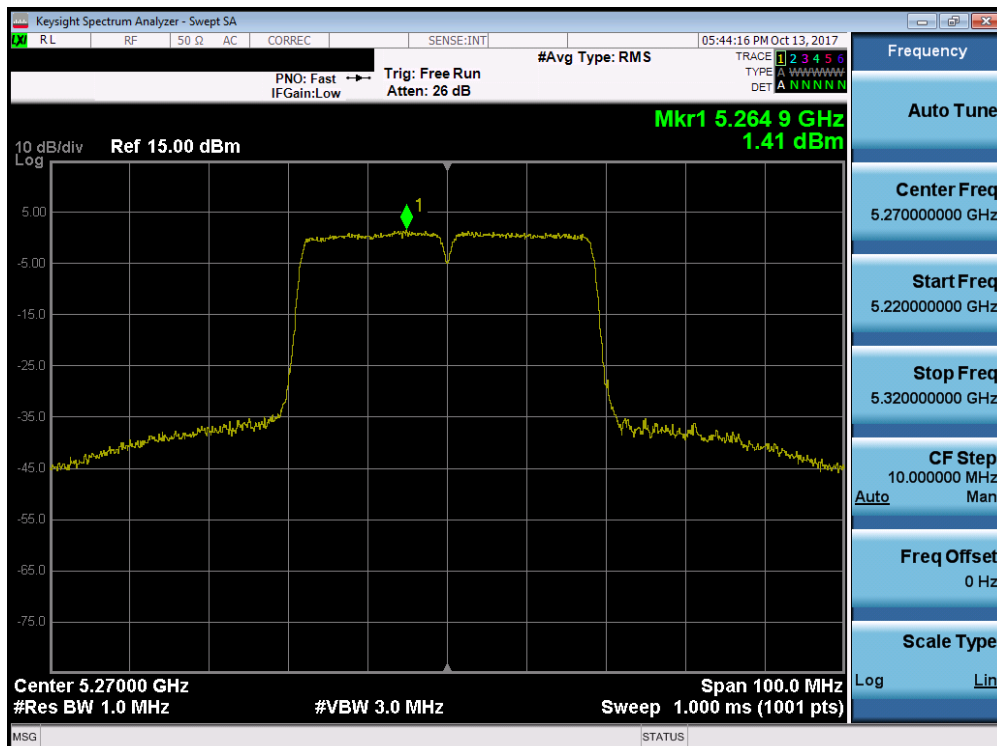


Plot 7-131. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 95 of 207

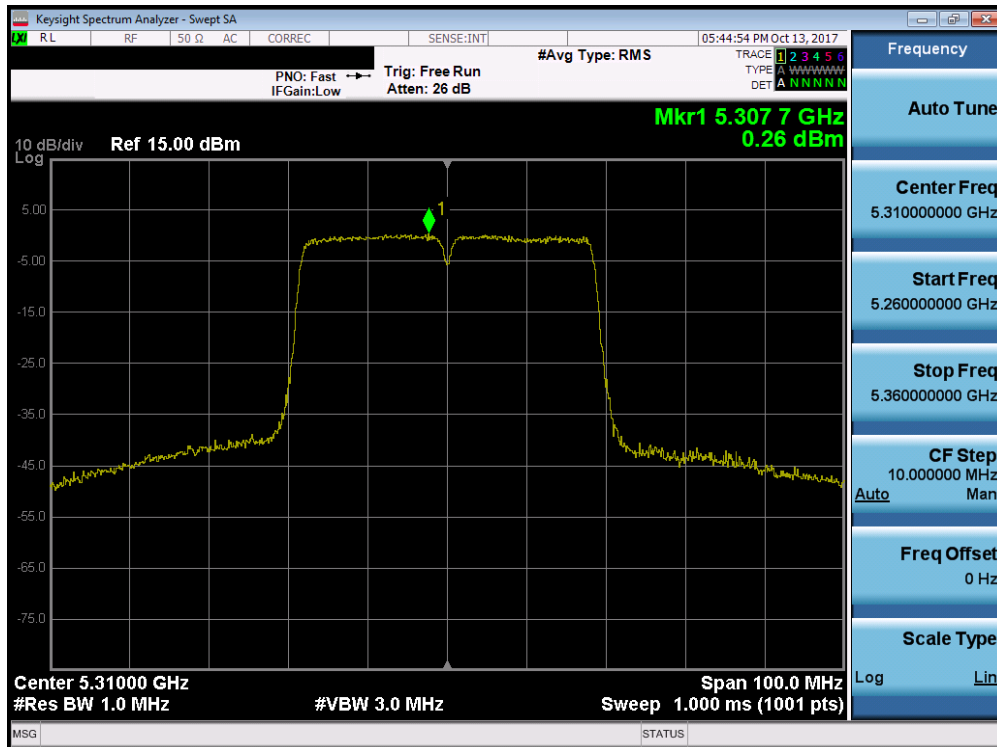


Plot 7-132. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

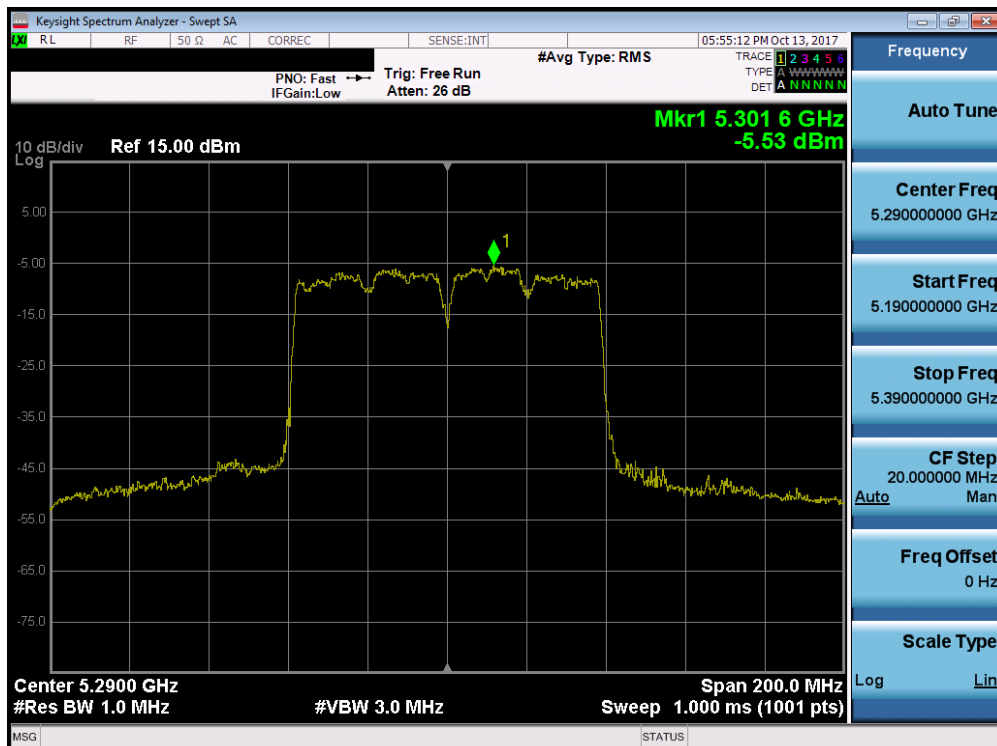


Plot 7-133. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 96 of 207

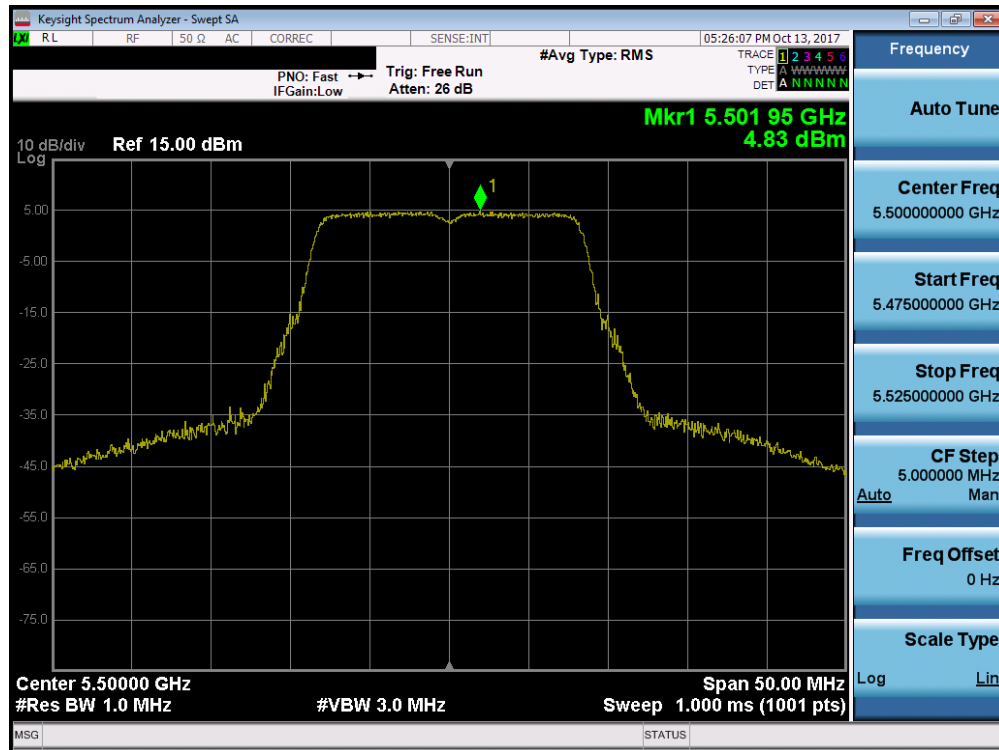


Plot 7-134. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

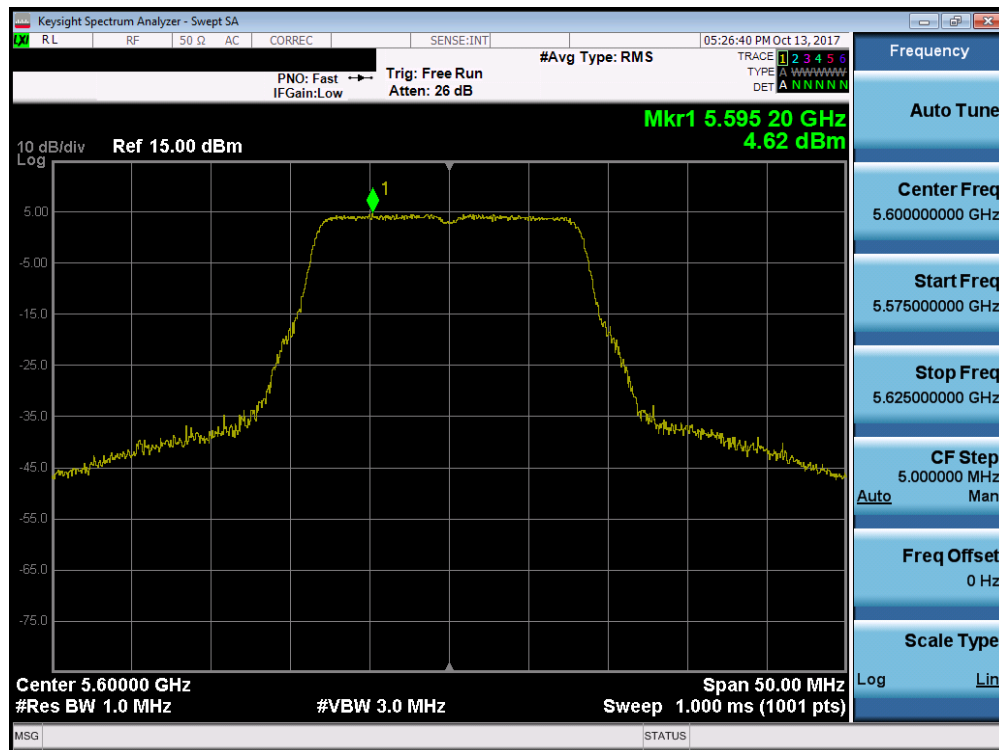


Plot 7-135. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 97 of 207

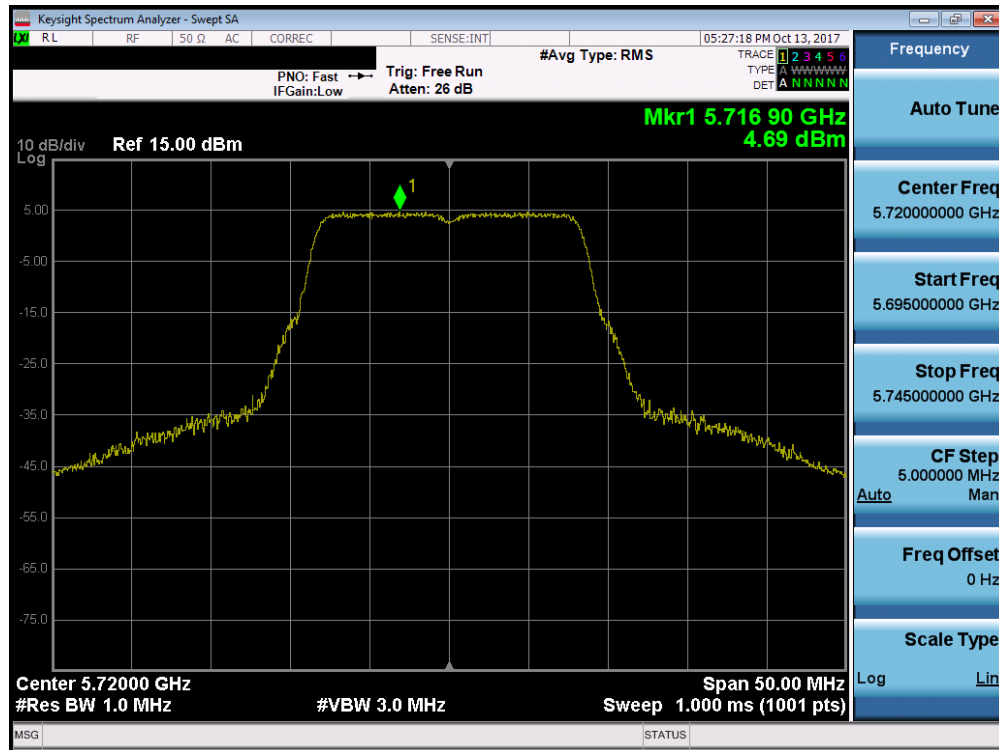


Plot 7-136. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

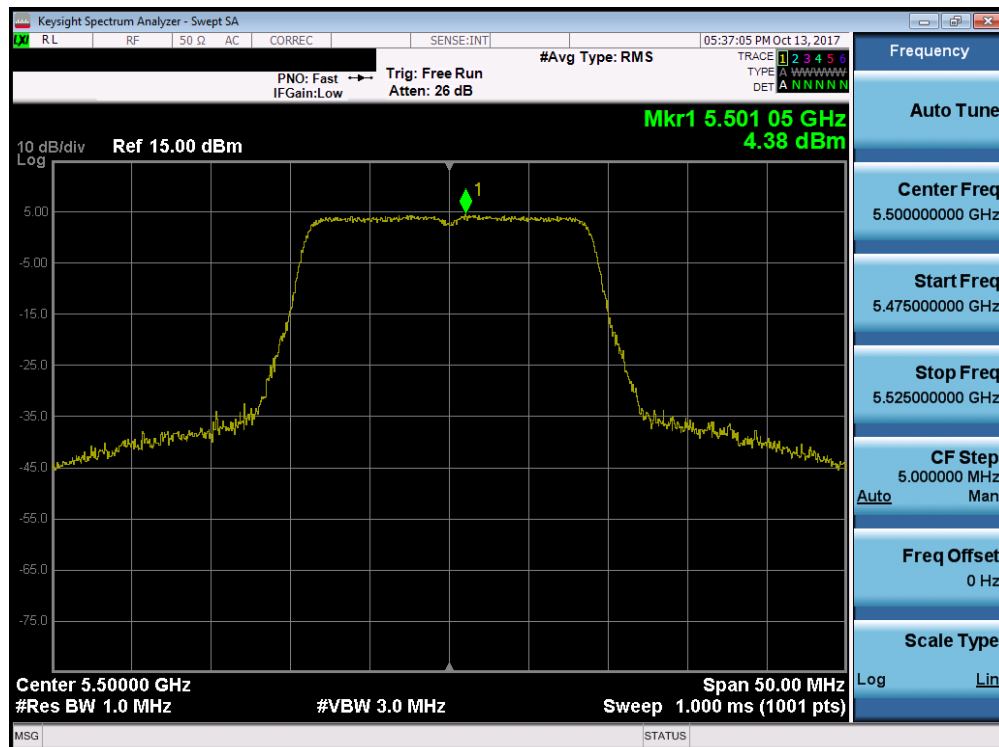


Plot 7-137. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 98 of 207

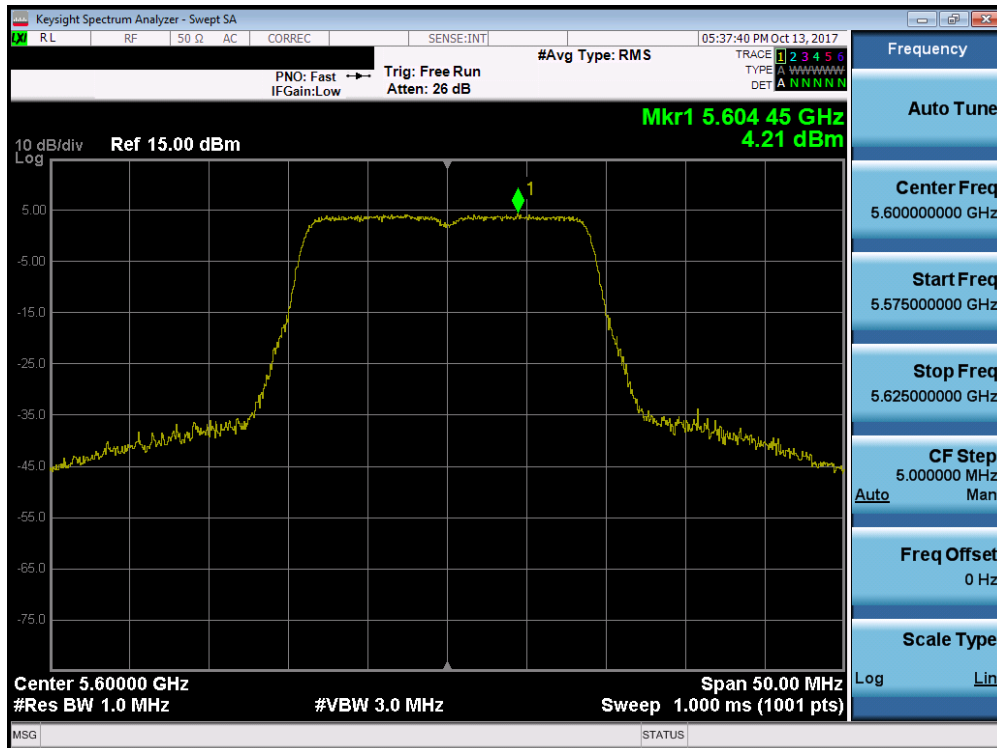


Plot 7-138. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

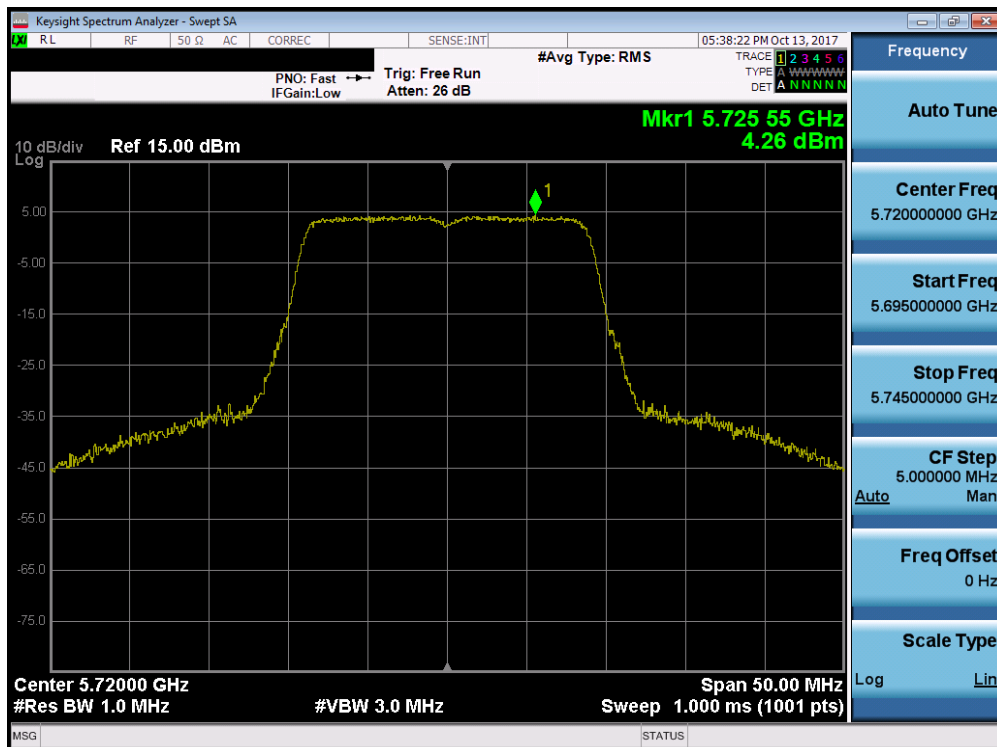


Plot 7-139. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 99 of 207

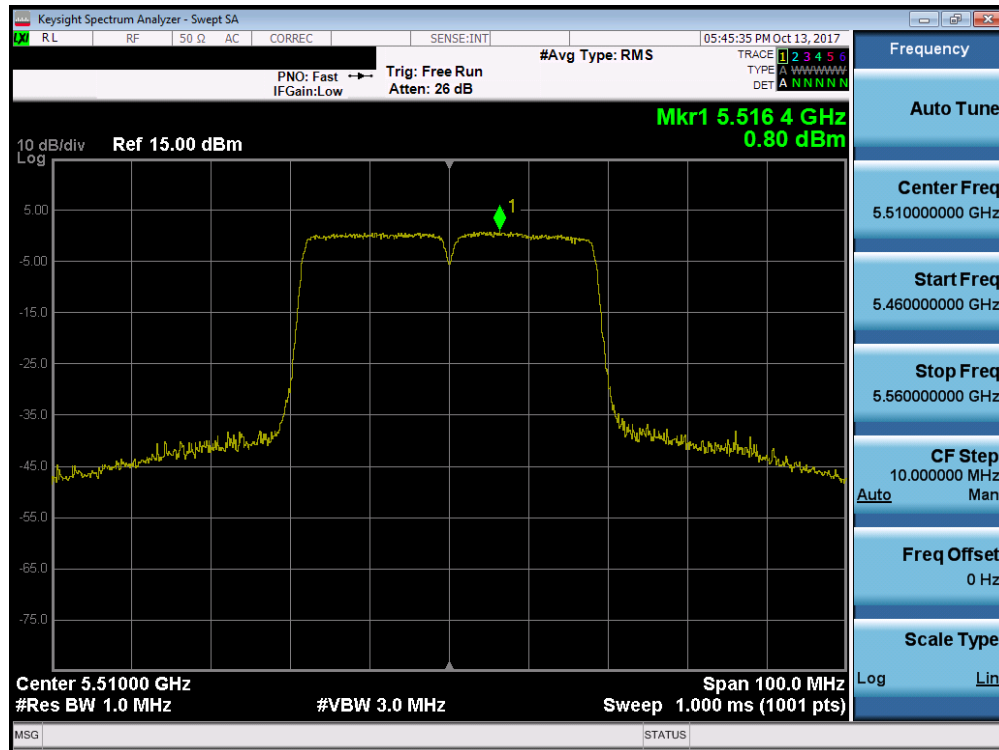


Plot 7-140. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

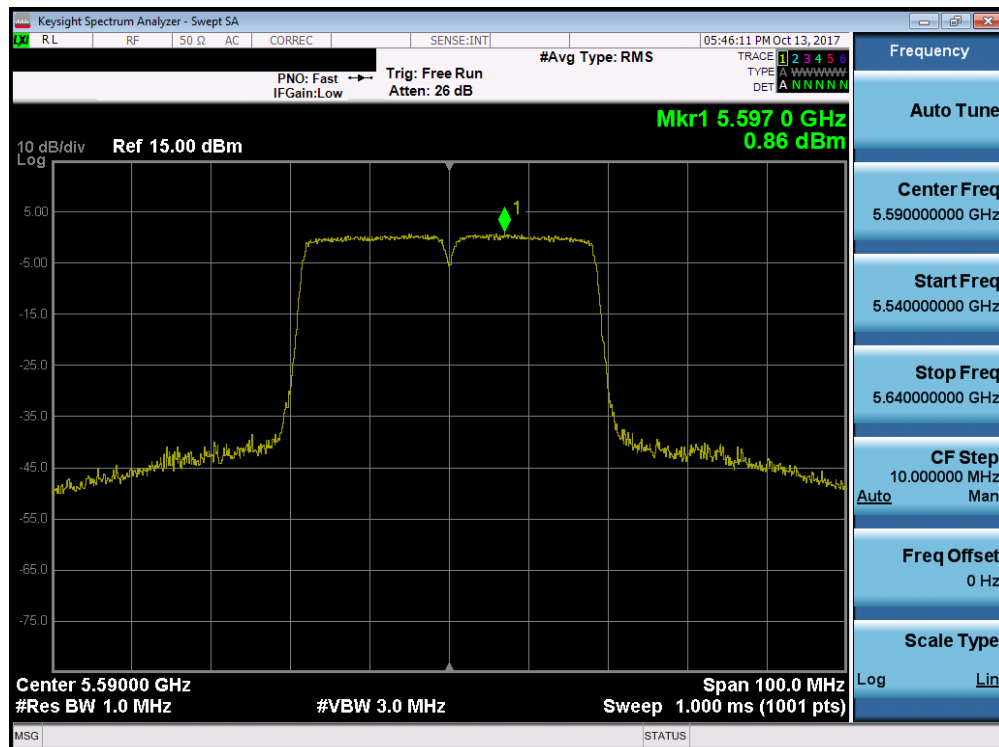


Plot 7-141. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 100 of 207

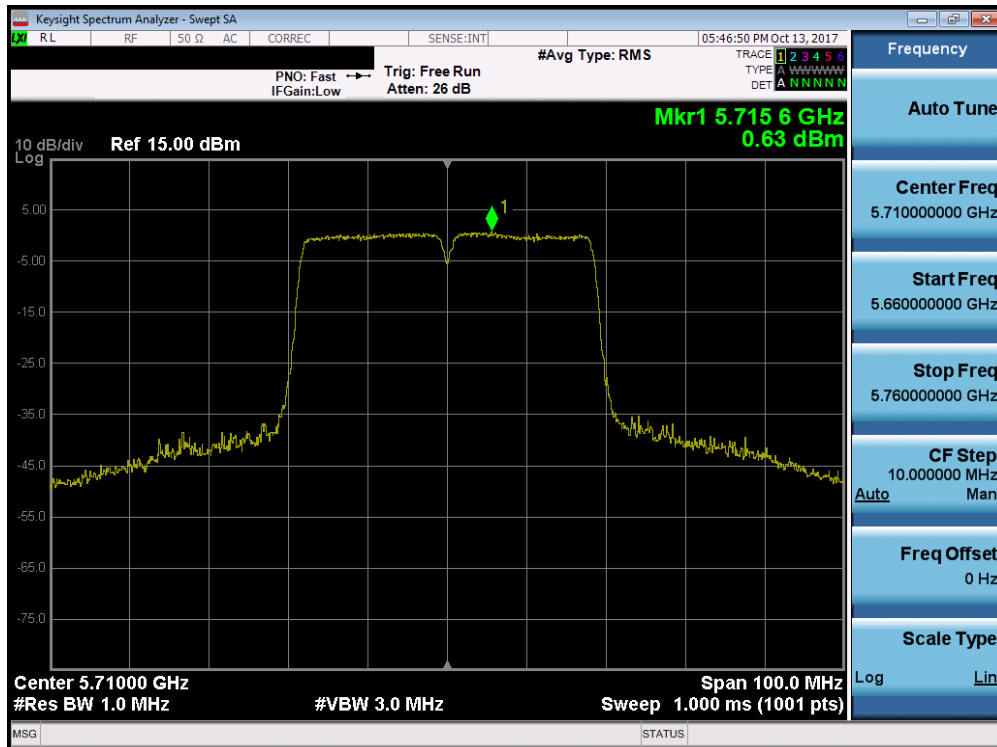


Plot 7-142. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

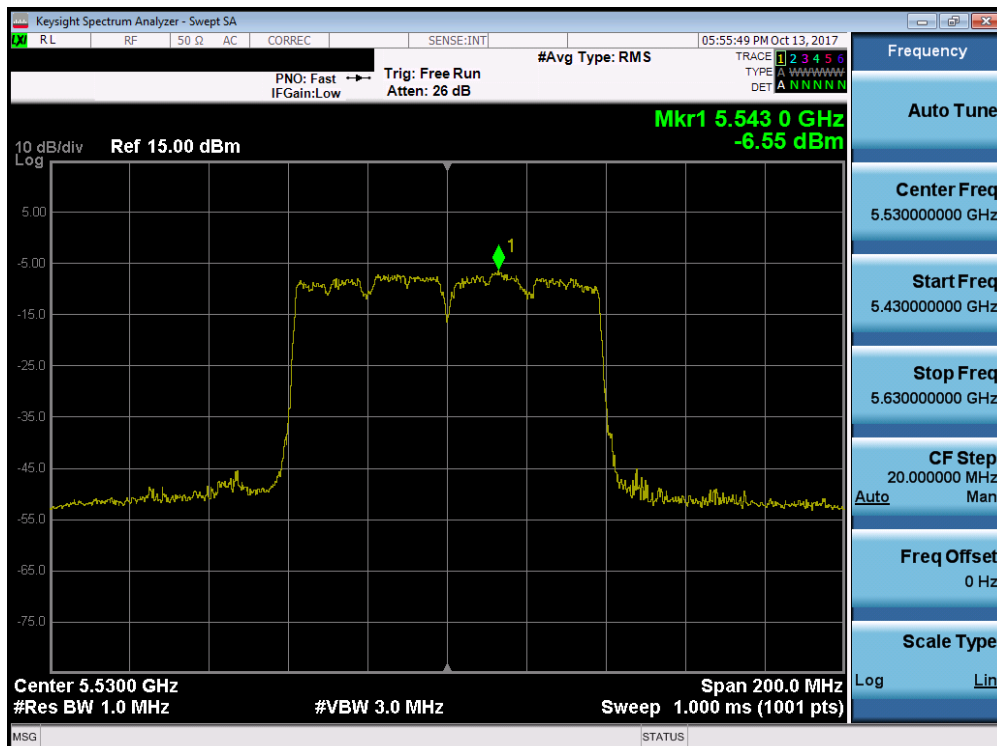


Plot 7-143. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 101 of 207

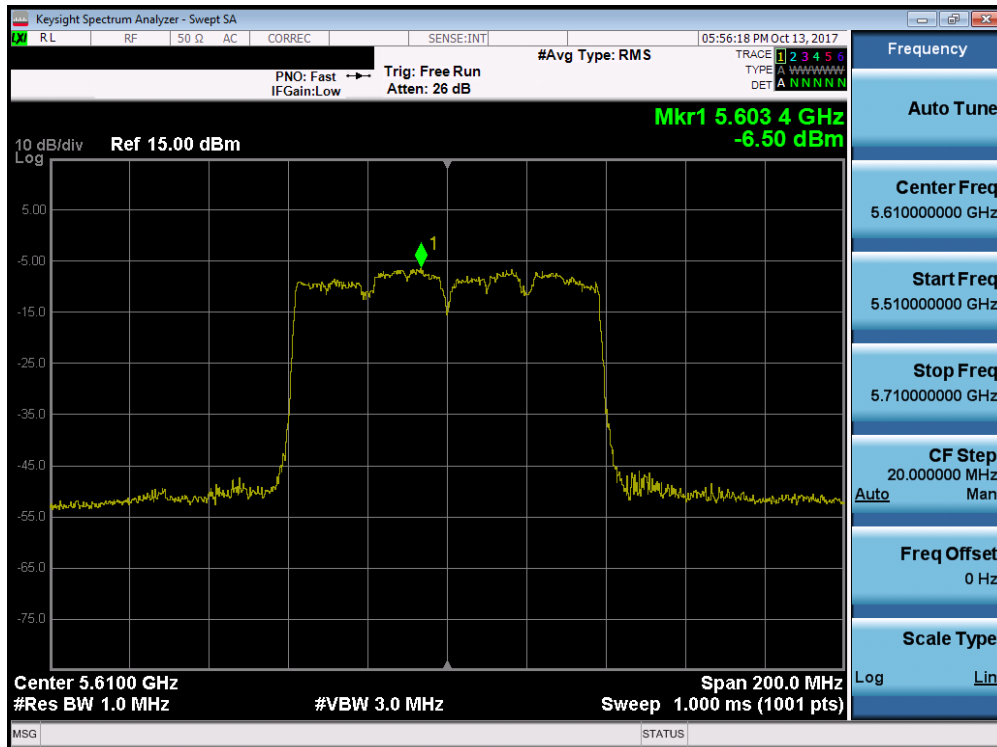


Plot 7-144. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

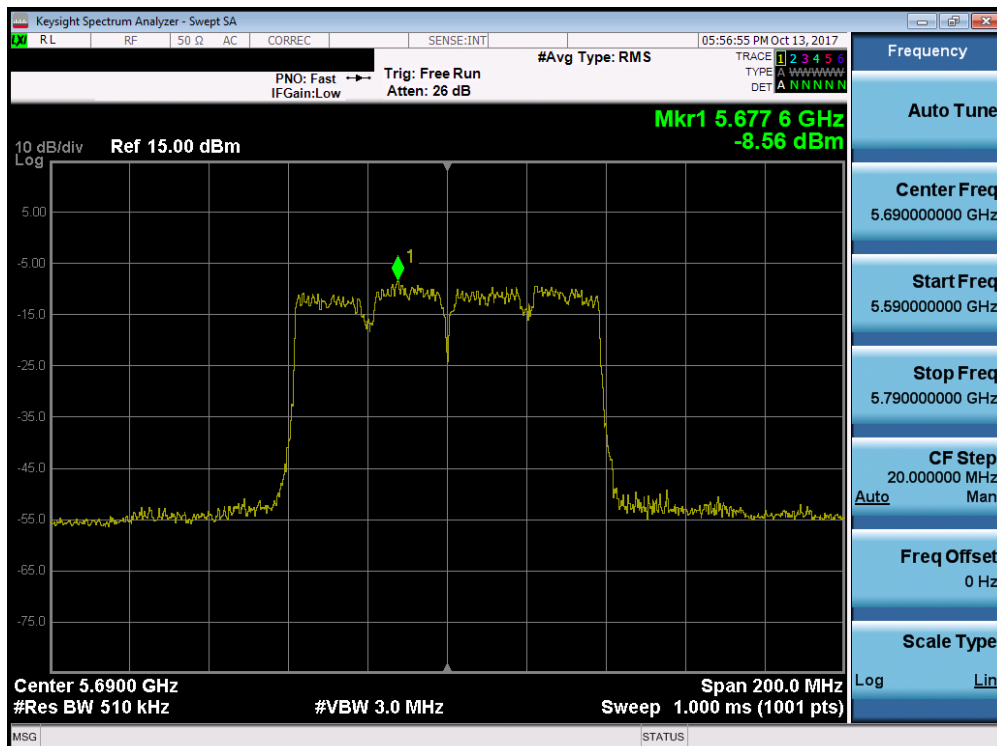


Plot 7-145. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 102 of 207



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

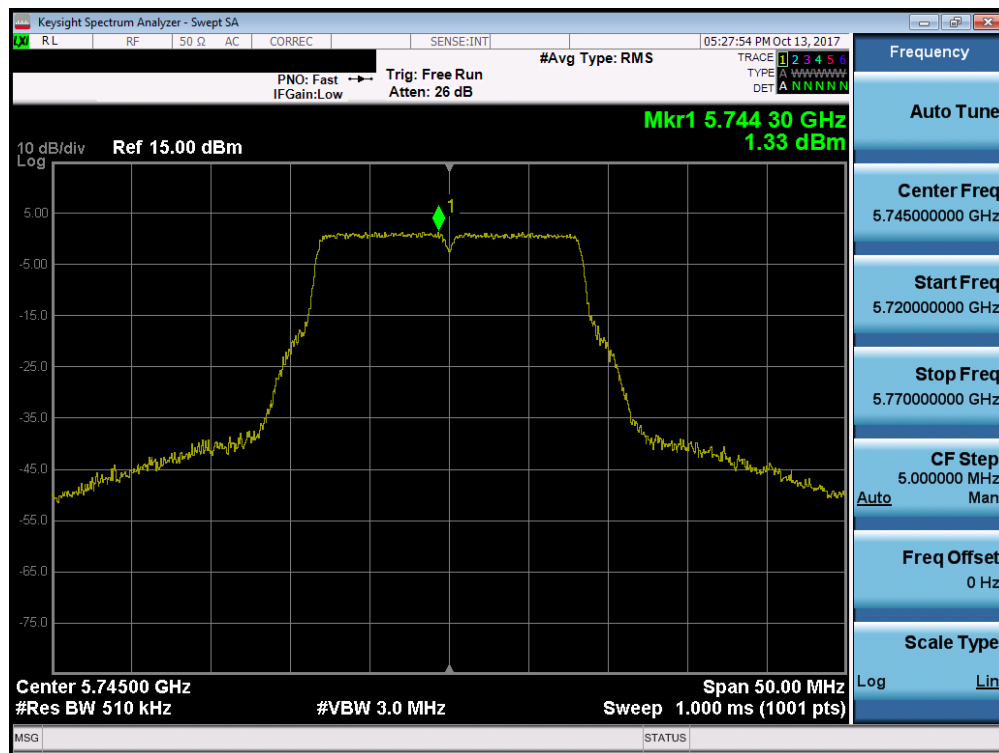


Plot 7-147. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 103 of 207

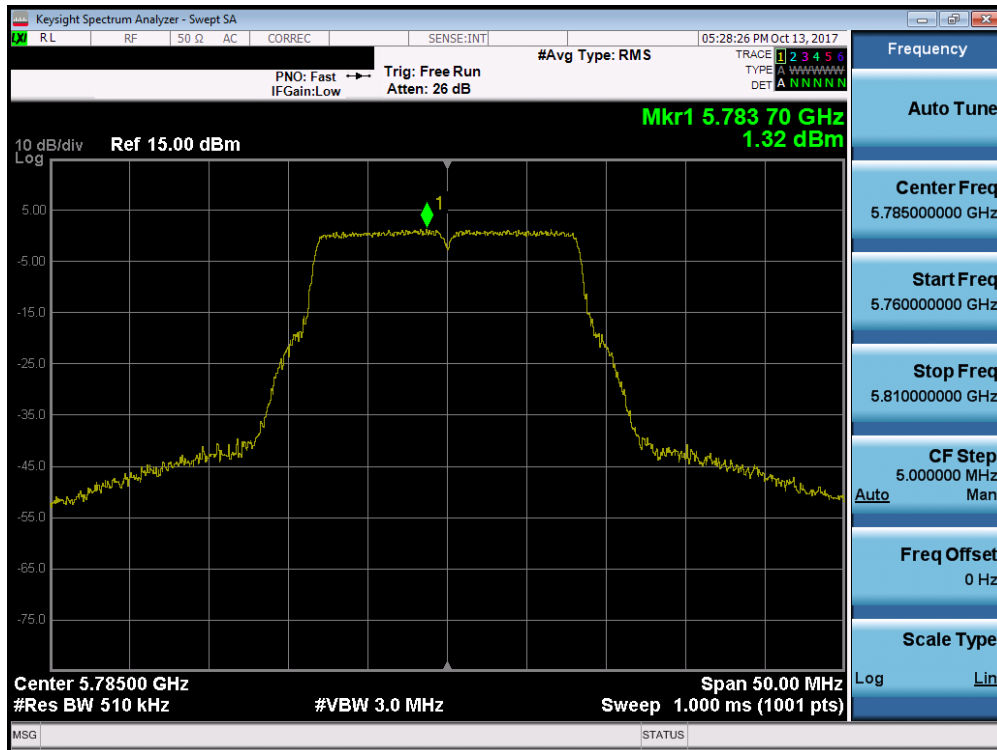
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	1.33	30.0	-28.67
	5785	157	a	6	1.32	30.0	-28.68
	5825	165	a	6	1.05	30.0	-28.95
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	1.86	30.0	-28.14
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	0.90	30.0	-29.10
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	0.88	30.0	-29.12
	5755	151	n (40MHz)	13.5/15 (MCS0)	-2.41	30.0	-32.41
	5795	159	n (40MHz)	13.5/15 (MCS0)	-2.84	30.0	-32.84
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-4.71	30.0	-34.71

Table 7-21. Band 3 Conducted Power Spectral Density Measurements

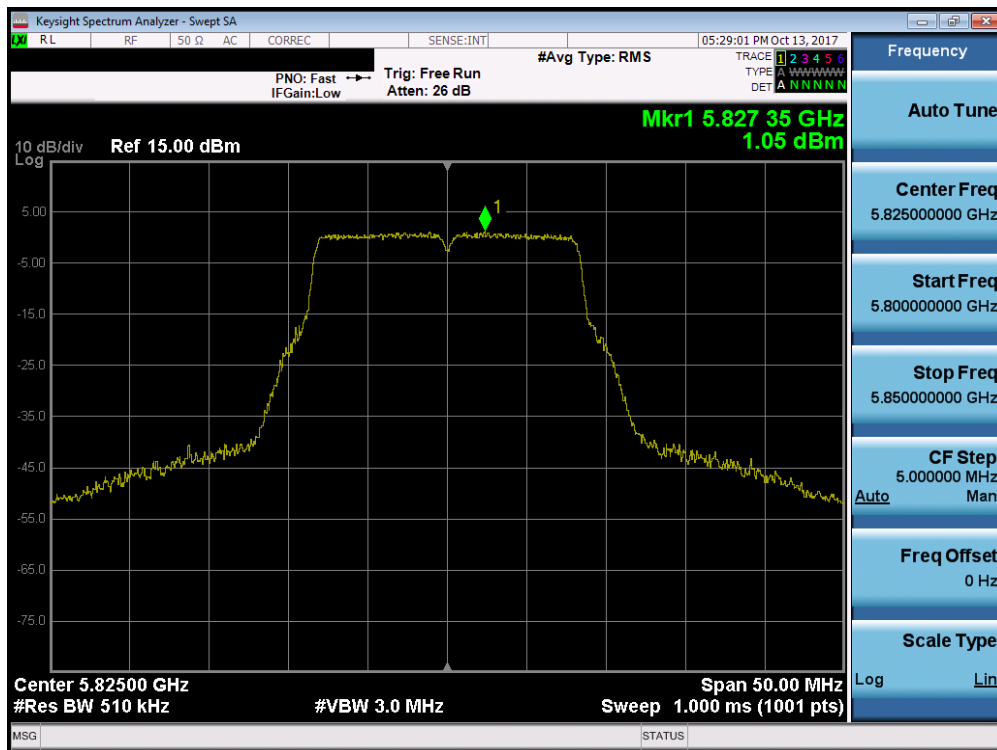


Plot 7-148. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 104 of 207

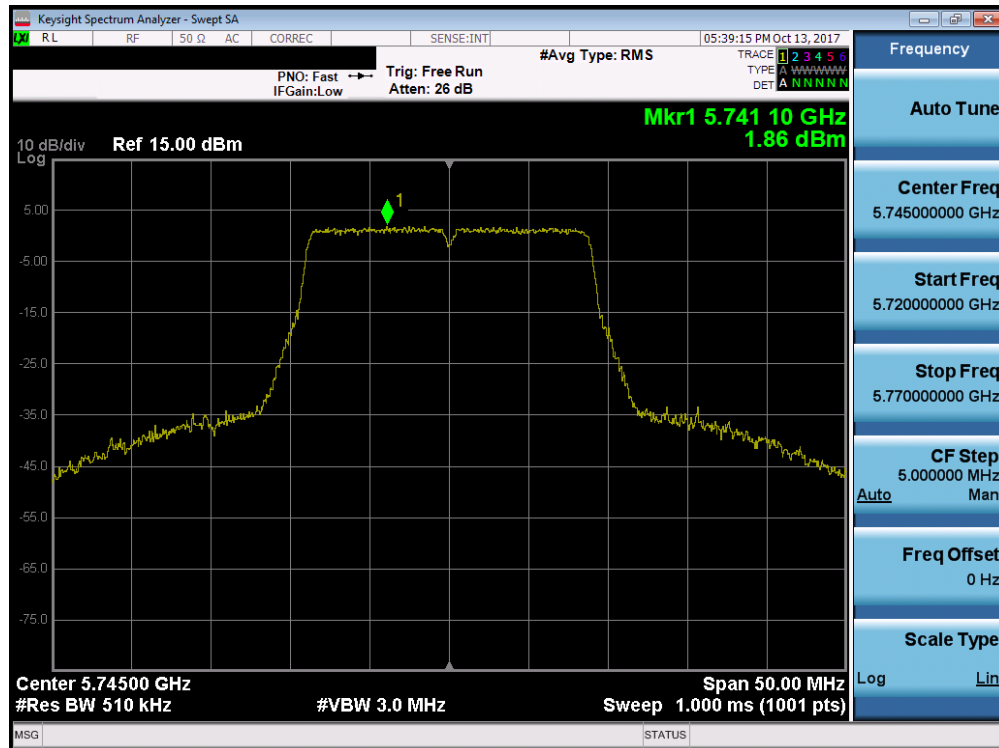


Plot 7-149. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 157)

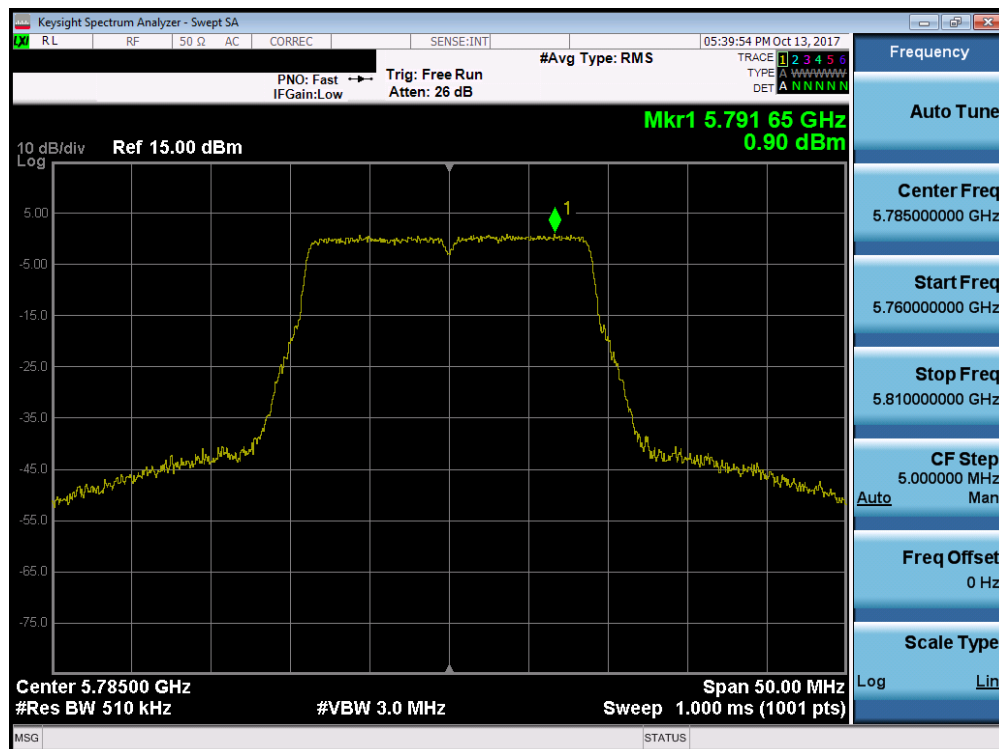


Plot 7-150. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 105 of 207

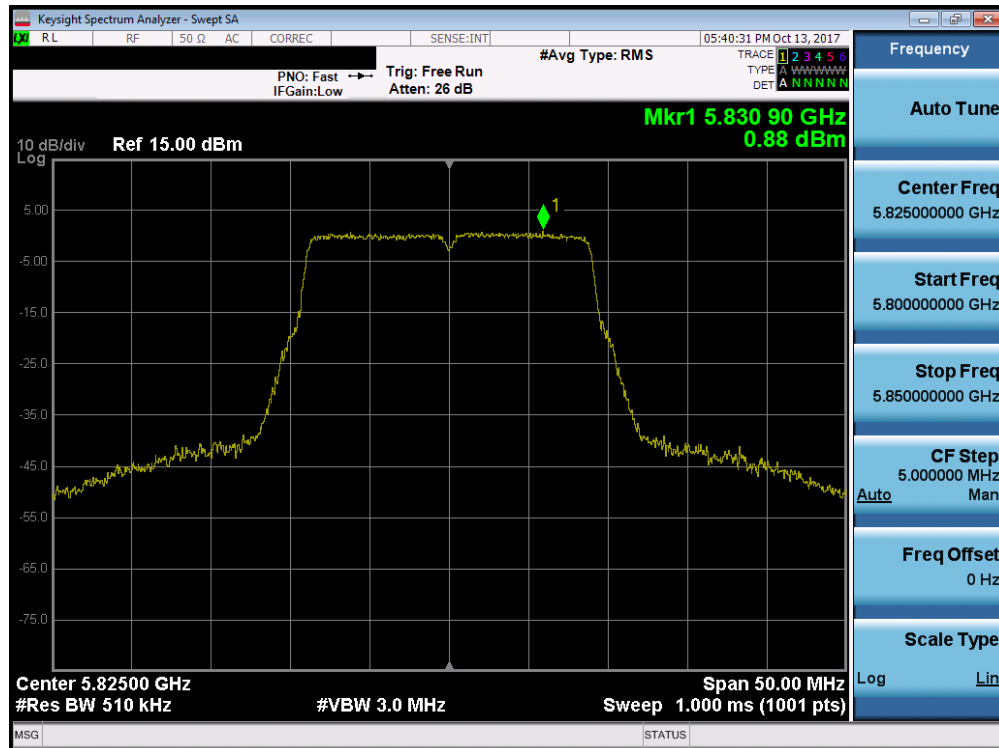


Plot 7-151. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

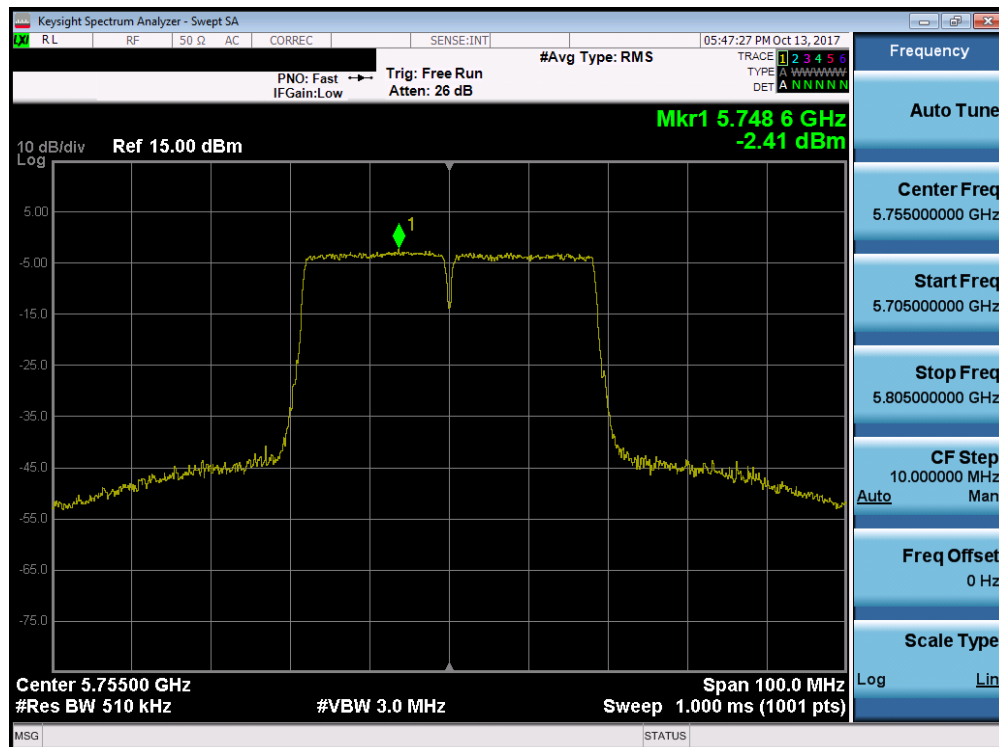


Plot 7-152. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG965F	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 106 of 207

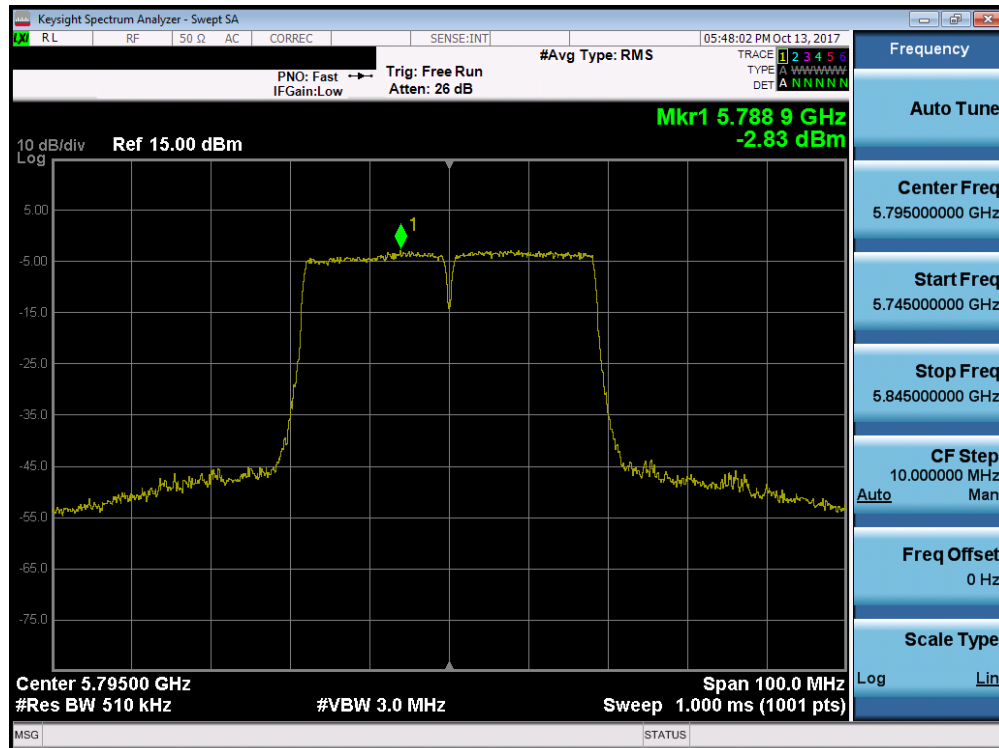


Plot 7-153. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

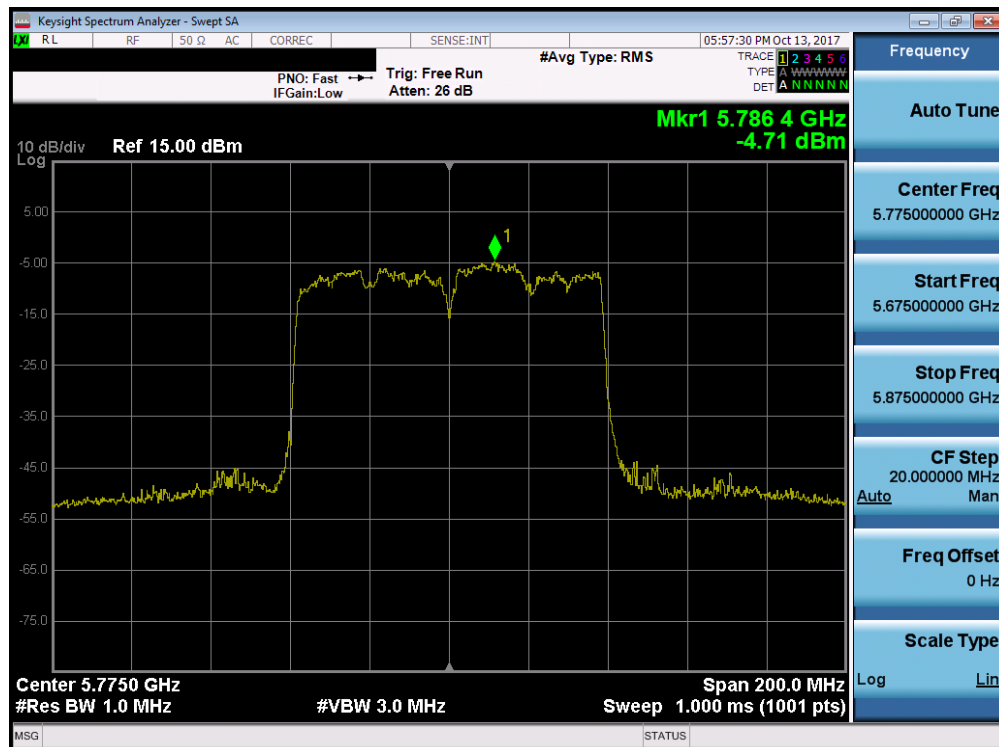


Plot 7-154. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 107 of 207



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)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 108 of 207

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 Power Density [dBm/MHz]	Margin [dB]	ISED Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6.5/7.2 (MCS0)	6.30	4.76	8.61	11.0	-2.39	10.0	-2.39
	5200	40	a	6.5/7.2 (MCS0)	6.64	4.87	8.86	11.0	-2.14	10.0	-2.14
	5240	48	a	6.5/7.2 (MCS0)	6.41	4.92	8.74	11.0	-2.26	10.0	-2.26
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	6.05	4.54	8.37	11.0	-2.63	10.0	-2.63
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.46	4.52	8.61	11.0	-2.39	10.0	-2.39
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.61	4.55	8.71	11.0	-2.29	10.0	-2.29
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.46	0.86	3.26	11.0	-7.74	10.0	-7.74
	5230	46	n (40MHz)	13.5/15 (MCS0)	0.03	1.15	3.63	11.0	-7.37	10.0	-7.37
Band 2A	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-6.35	-5.62	-2.96	11.0	-13.96	10.0	-13.96
	5260	52	a	6.5/7.2 (MCS0)	7.36	4.08	9.03	11.0	-1.97		
	5280	56	a	6.5/7.2 (MCS0)	7.01	3.87	8.72	11.0	-2.28		
	5320	64	a	6.5/7.2 (MCS0)	6.56	4.88	8.81	11.0	-2.19		
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.16	4.45	8.40	11.0	-2.60		
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.22	4.52	8.46	11.0	-2.54		
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	5.98	4.95	8.51	11.0	-2.49		
	5270	54	n (40MHz)	13.5/15 (MCS0)	-0.38	1.41	3.62	11.0	-7.38		
Band 2C	5310	62	n (40MHz)	13.5/15 (MCS0)	0.05	0.26	3.17	11.0	-7.83		
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-5.85	-5.53	-2.68	11.0	-13.68		
	5500	100	a	6.5/7.2 (MCS0)	4.30	4.83	7.58	11.0	-3.42		
	5600	120	a	6.5/7.2 (MCS0)	4.34	4.62	7.49	11.0	-3.51		
	5720	144	a	6.5/7.2 (MCS0)	4.27	4.69	7.49	11.0	-3.51		
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	5.32	4.38	7.88	11.0	-3.12		
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	4.22	4.21	7.23	11.0	-3.77		
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	4.21	4.26	7.25	11.0	-3.75		
	5510	102	n (40MHz)	13.5/15 (MCS0)	-0.66	0.80	3.14	11.0	-7.86		
	5590	118	n (40MHz)	13.5/15 (MCS0)	-0.58	0.86	3.21	11.0	-7.79		
	5710	142	n (40MHz)	13.5/15 (MCS0)	-0.32	0.63	3.19	11.0	-7.81		
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-6.96	-6.55	-3.74	11.0	-14.74		
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-6.50	-6.51	-3.49	11.0	-14.49		
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-9.12	-8.56	-5.82	11.0	-16.82		

Table 7-22. 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]
Band 3	5745	149	a	6.5/7.2 (MCS0)	1.31	1.33	4.33	30.0	-25.67
	5785	157	a	6.5/7.2 (MCS0)	1.35	1.32	4.35	30.0	-25.65
	5825	165	a	6.5/7.2 (MCS0)	1.29	1.05	4.18	30.0	-25.82
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	1.30	1.86	4.60	30.0	-25.40
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	1.06	0.90	3.99	30.0	-26.01
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	1.26	0.88	4.08	30.0	-25.92
	5755	151	n (40MHz)	13.5/15 (MCS0)	-3.15	-2.41	0.25	30.0	-29.75
	5795	159	n (40MHz)	13.5/15 (MCS0)	-3.32	-2.84	-0.06	30.0	-30.06
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-6.54	-4.71	-2.52	30.0	-32.52

Table 7-23. Band 3 MIMO Conducted Power Spectral Density Measurements

Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

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Sample MIMO Calculation:

At 5180MHz the average conducted power spectral density was measured to be 6.04 dBm for Antenna-1 and 4.54 dBm for Antenna-2.

Antenna 1 + Antenna 2 = MIMO

$$(6.04 \text{ dBm} + 4.54 \text{ dBm}) = (4.02 \text{ mW} + 2.84 \text{ mW}) = 6.86 \text{ mW} = 8.36 \text{ dBm}$$

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7.6 Frequency Stability

§15.407(g); RSS-Gen [6.11]

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)	5,180,000,292	292	0.0000056
100 %		- 30	5,180,000,016	16	0.0000003
100 %		- 20	5,179,999,870	-130	-0.0000025
100 %		- 10	5,180,000,151	151	0.0000029
100 %		0	5,179,999,762	-238	-0.0000046
100 %		+ 10	5,180,000,069	69	0.0000013
100 %		+ 20	5,179,999,956	-44	-0.0000008
100 %		+ 30	5,180,000,134	134	0.0000026
100 %		+ 40	5,179,999,987	-13	-0.0000003
100 %		+ 50	5,180,000,072	72	0.0000014
BATT. ENDPOINT	3.45	+ 20	5,180,000,041	41	0.0000008

Table 7-24. 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); RSS-Gen [6.11]

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)	5,259,999,898	-102	-0.0000019
100 %		- 30	5,260,000,346	346	0.0000066
100 %		- 20	5,260,000,056	56	0.0000011
100 %		- 10	5,259,999,857	-143	-0.0000027
100 %		0	5,259,999,776	-224	-0.0000043
100 %		+ 10	5,259,999,931	-69	-0.0000013
100 %		+ 20	5,259,999,752	-248	-0.0000047
100 %		+ 30	5,260,000,165	165	0.0000031
100 %		+ 40	5,260,000,112	112	0.0000021
100 %		+ 50	5,259,999,767	-233	-0.0000044
BATT. ENDPOINT	3.45	+ 20	5,260,000,009	9	0.0000002

Table 7-25. 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

§15.407(g); RSS-Gen [6.11]

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)	5,499,999,672	-328	-0.0000060
100 %		- 30	5,500,000,072	72	0.0000013
100 %		- 20	5,499,999,924	-76	-0.0000014
100 %		- 10	5,499,999,831	-169	-0.0000031
100 %		0	5,500,000,039	39	0.0000007
100 %		+ 10	5,499,999,846	-154	-0.0000028
100 %		+ 20	5,499,999,858	-142	-0.0000026
100 %		+ 30	5,499,999,915	-85	-0.0000015
100 %		+ 40	5,500,000,021	21	0.0000004
100 %		+ 50	5,499,999,992	-8	-0.0000001
BATT. ENDPOINT	3.45	+ 20	5,500,000,188	188	0.0000034

Table 7-26. 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

§15.407(g); RSS-Gen [6.11]

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)	5,745,000,075	75	0.0000013
100 %		- 30	5,744,999,892	-108	-0.0000019
100 %		- 20	5,745,000,256	256	0.0000045
100 %		- 10	5,745,000,067	67	0.0000012
100 %		0	5,745,000,048	48	0.0000008
100 %		+ 10	5,745,000,315	315	0.0000055
100 %		+ 20	5,744,999,980	-20	-0.0000003
100 %		+ 30	5,745,000,014	14	0.0000002
100 %		+ 40	5,745,000,166	166	0.0000029
100 %		+ 50	5,745,000,212	212	0.0000037
BATT. ENDPOINT	3.45	+ 20	5,744,999,890	-110	-0.0000019

Table 7-27. 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; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v01r04, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-28 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-28. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v01r04 – 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.

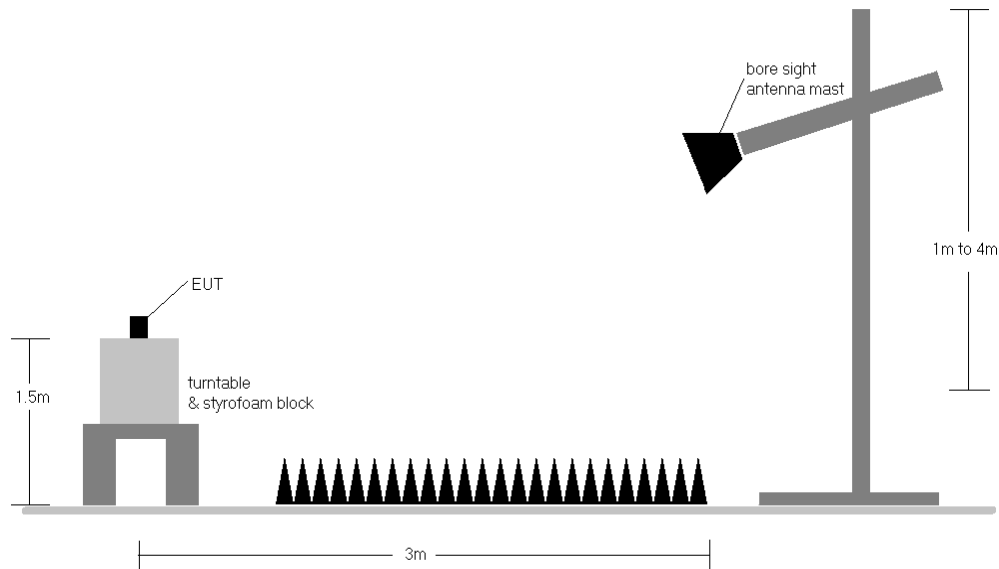


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-28.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-28. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. 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.
8. 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.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

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

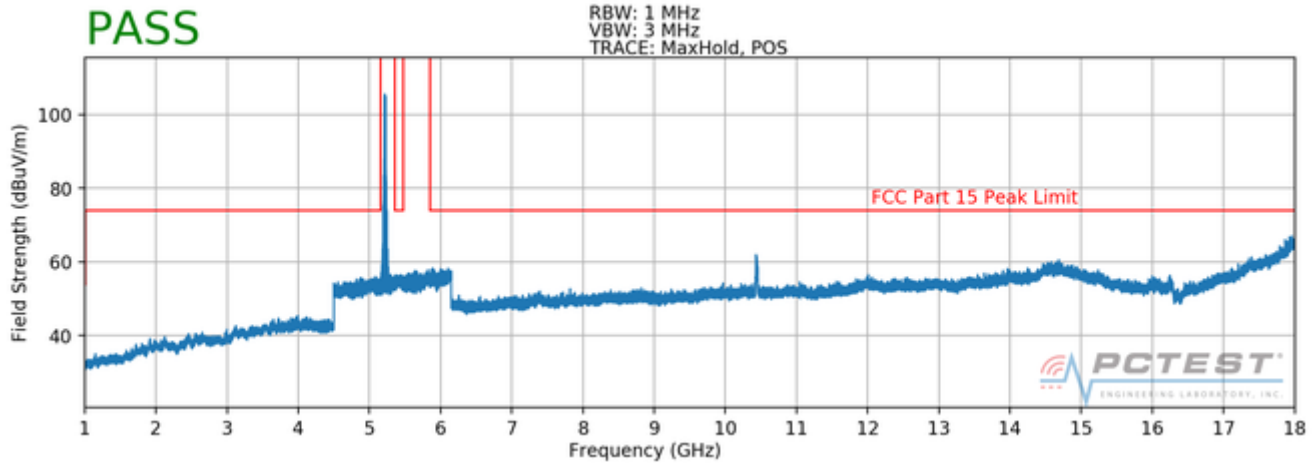
Radiated Band Edge Measurement Offset

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

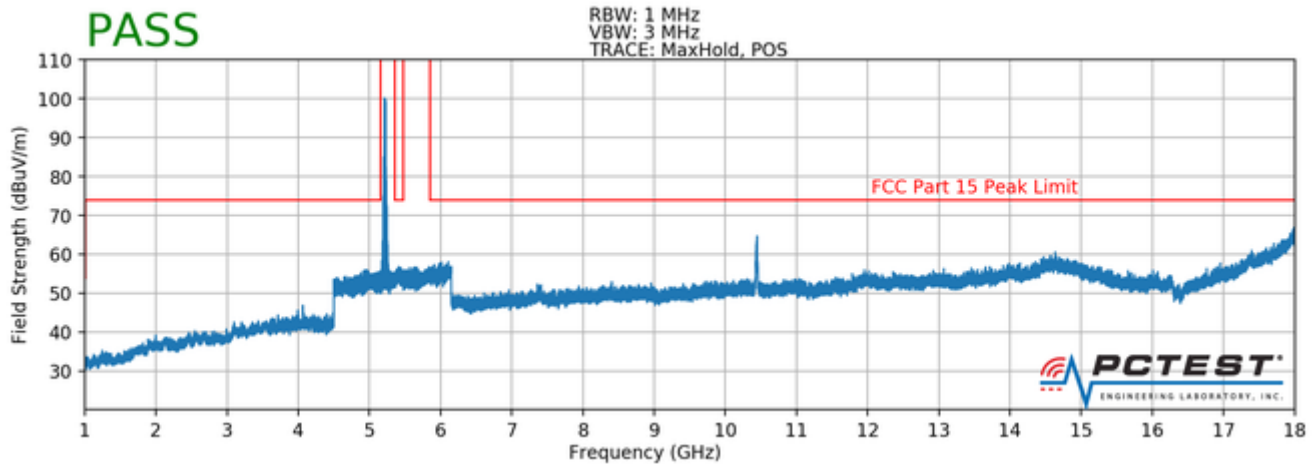
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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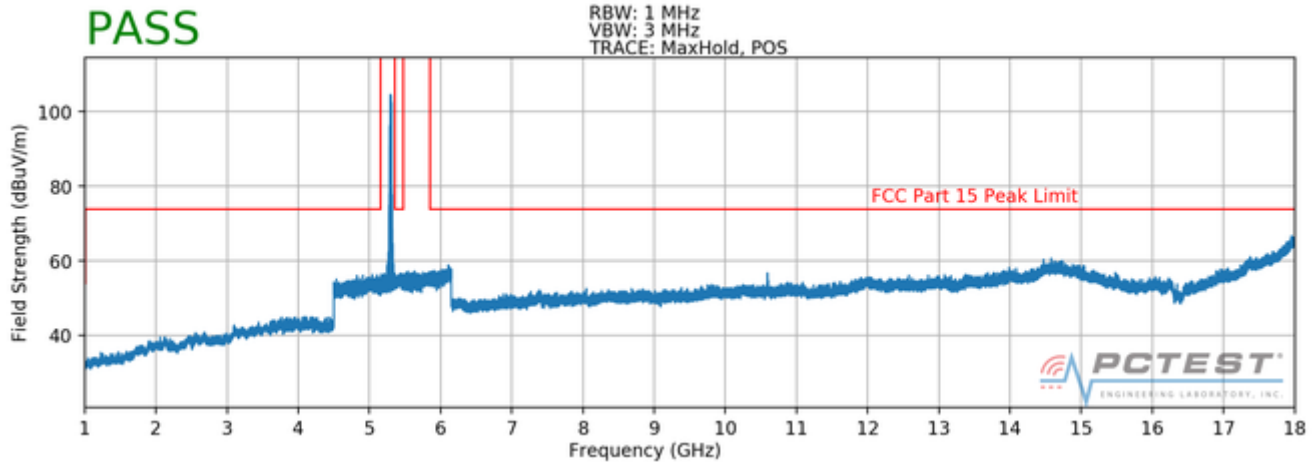
7.7.1 Antenna-1 Radiated Spurious Emission Measurements



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

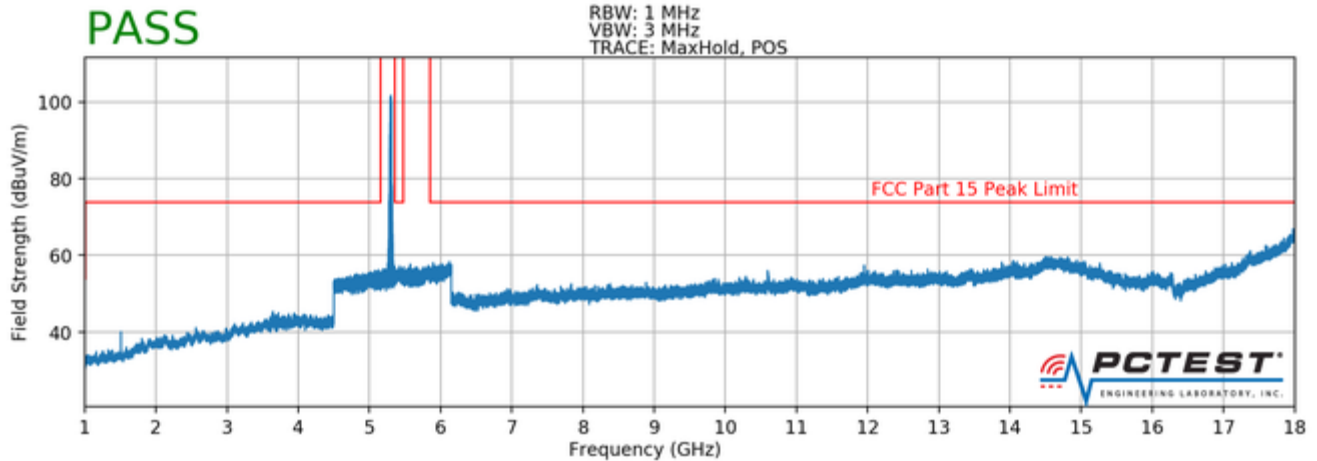


Plot 7-158. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. V)

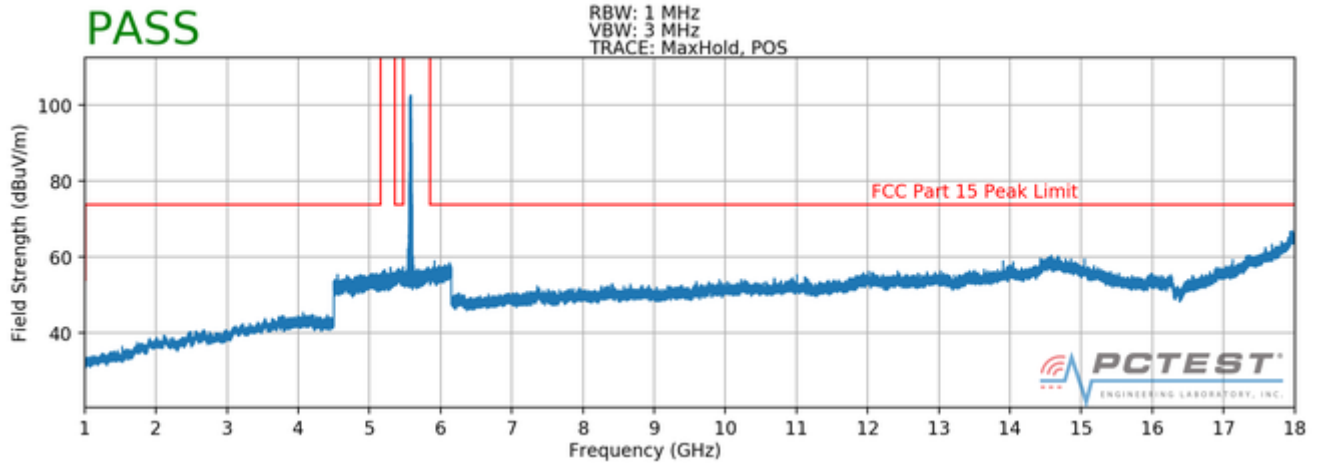


Plot 7-159. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

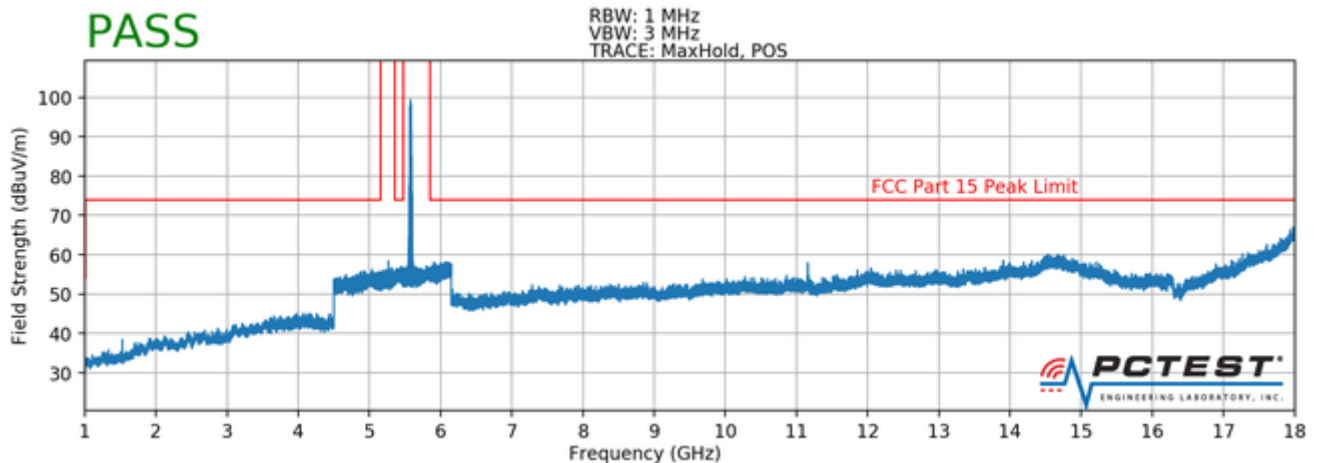
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Plot 7-160. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)

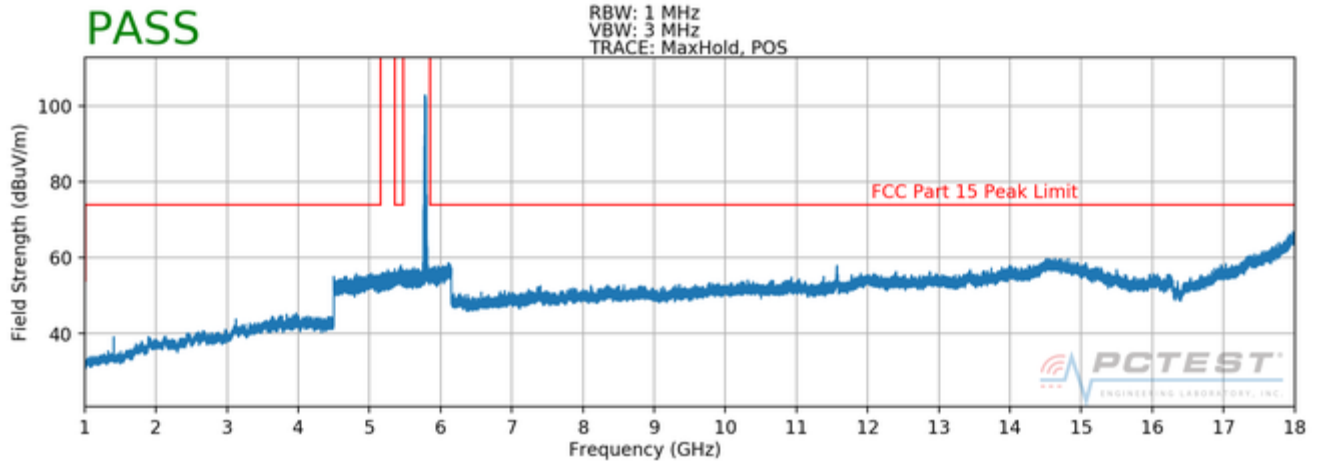


Plot 7-161. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)

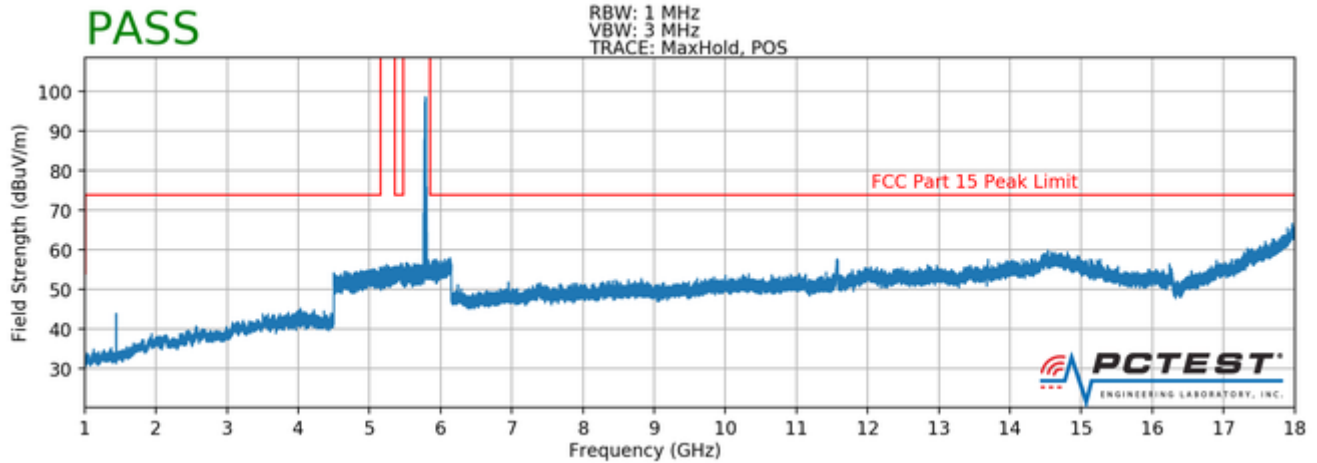


Plot 7-162. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

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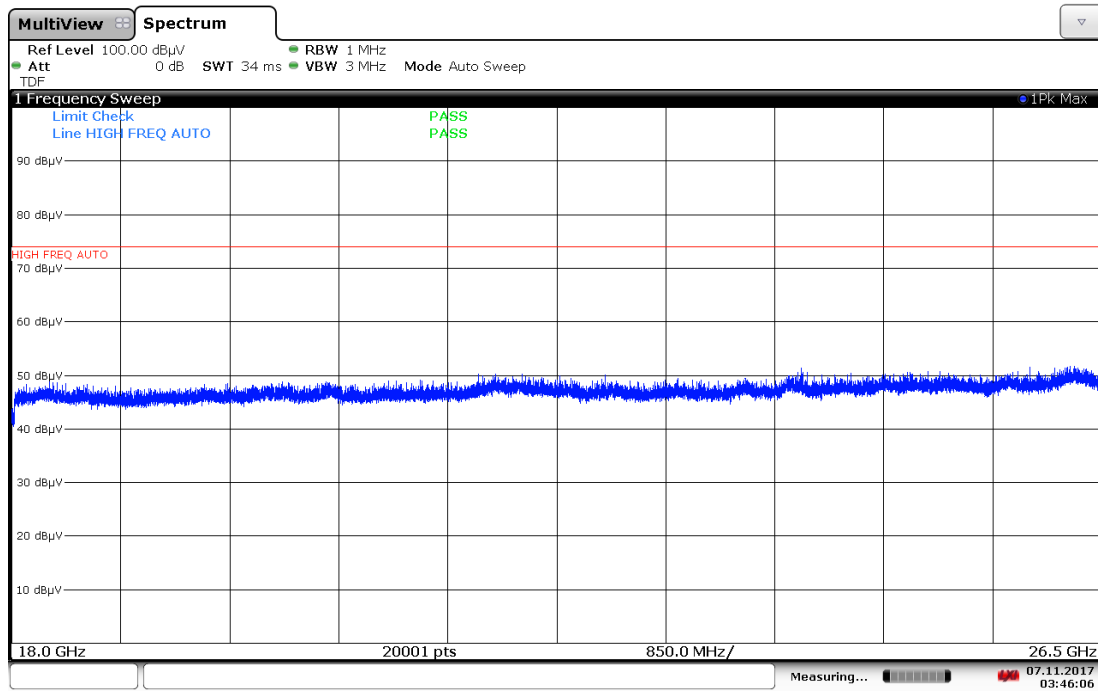
Plot 7-163. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)



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

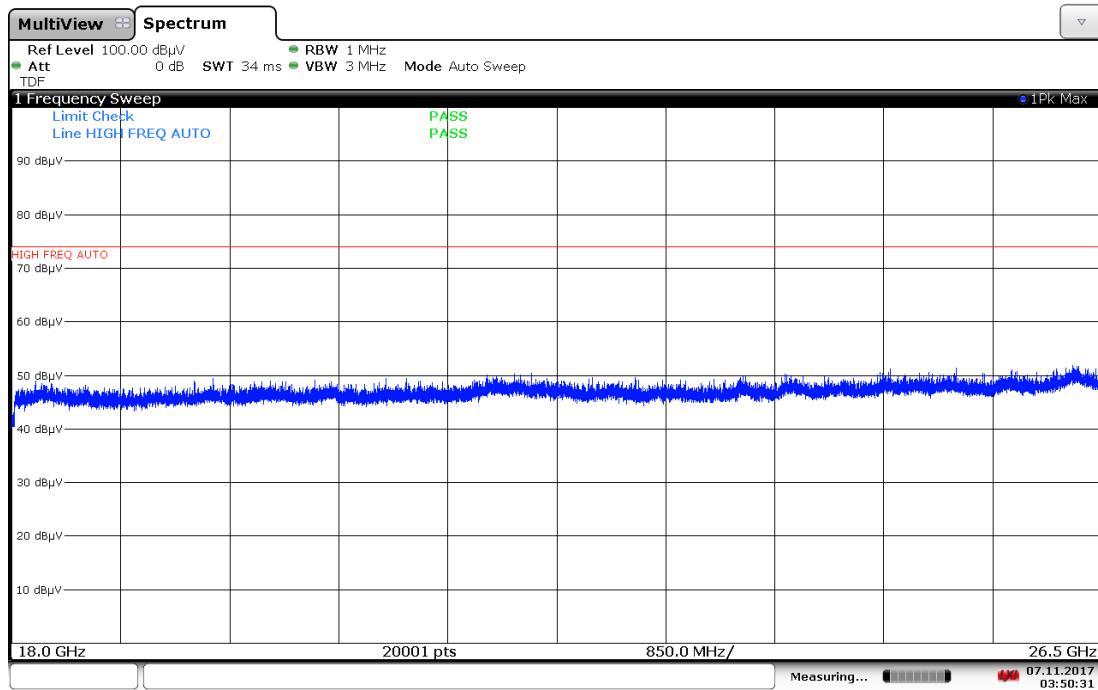
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Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



03:46:07 07.11.2017

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



03:50:31 07.11.2017

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

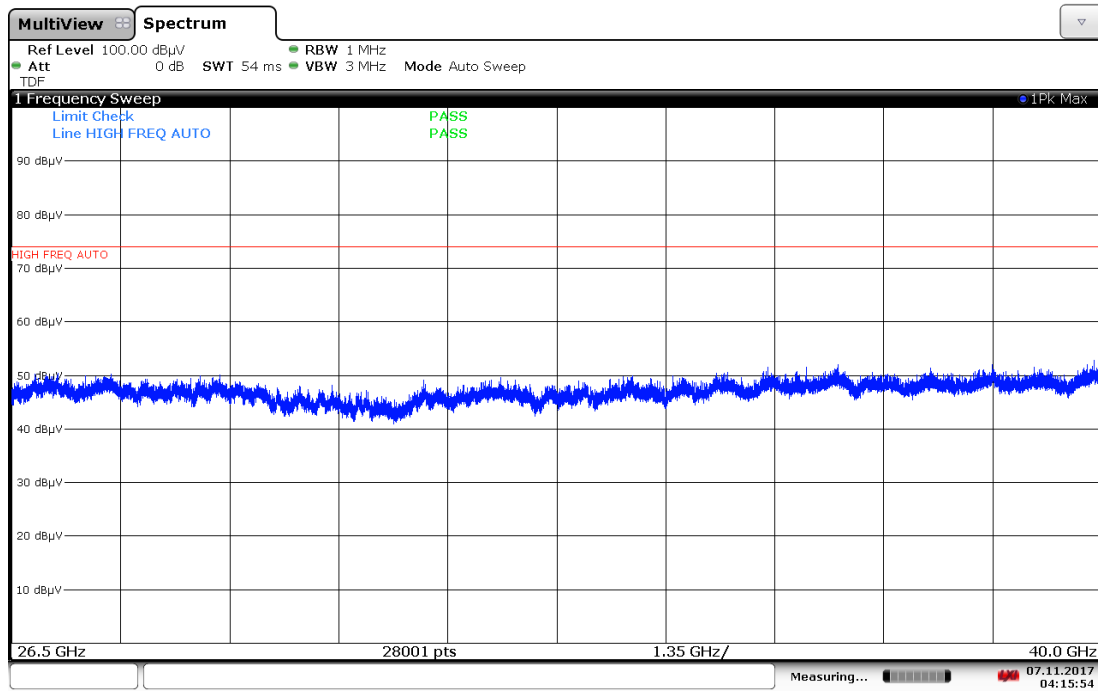
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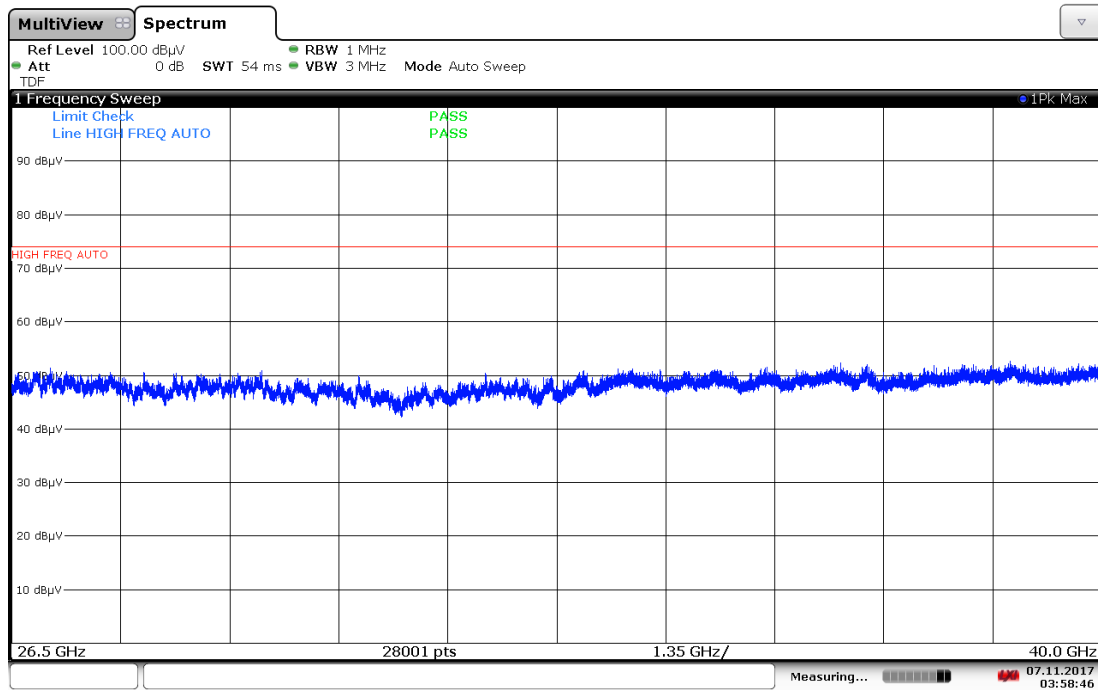
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Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



04:15:55 07.11.2017

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



03:58:47 07.11.2017

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

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Antenna-1 Radiated Spurious Emission Measurements

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

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	100	81	-50.01	12.13	-9.54	59.58	68.20	-8.62
* 15540.00	Average	H	100	118	-71.29	14.49	-9.54	40.66	53.98	-13.32
* 15540.00	Peak	H	100	118	-54.45	14.49	-9.54	57.50	73.98	-16.48
* 20720.00	Average	H	100	265	-70.39	7.94	-9.54	35.01	53.98	-18.97
* 20720.00	Peak	H	100	265	-58.88	7.94	-9.54	46.52	73.98	-27.46
25900.00	Peak	H	100	265	-58.86	8.46	-9.54	47.06	68.20	-21.14

Table 7-29. 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	100	320	-52.74	12.12	-9.54	56.84	68.20	-11.36
* 15600.00	Average	H	100	117	-71.24	14.31	-9.54	40.53	53.98	-13.45
* 15600.00	Peak	H	100	117	-56.73	14.31	-9.54	55.04	73.98	-18.94
* 20800.00	Average	H	-	-	-72.49	7.95	-9.54	32.92	53.98	-21.06
* 20800.00	Peak	H	-	-	-60.08	7.95	-9.54	45.33	73.98	-28.65
26000.00	Peak	H	-	-	-57.29	8.60	-9.54	48.77	68.20	-19.43

Table 7-30. Radiated Measurements

FCC ID: A3LSMG965F		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 123 of 207

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	100	321	-54.02	12.09	-9.54	55.53	68.20	-12.67
* 15720.00	Average	H	100	146	-71.89	14.02	-9.54	39.59	53.98	-14.39
* 15720.00	Peak	H	100	146	-58.25	14.02	-9.54	53.23	73.98	-20.75
* 20960.00	Average	H	-	-	-70.98	7.91	-9.54	34.39	53.98	-19.59
* 20960.00	Peak	H	-	-	-60.89	7.91	-9.54	44.48	73.98	-29.50
26200.00	Peak	H	-	-	-56.88	8.62	-9.54	49.20	68.20	-19.00

Table 7-31. Radiated Measurements

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	100	220	-54.81	12.13	-9.54	54.78	68.20	-13.42
* 15540.00	Average	H	-	-	-74.30	14.49	-9.54	37.65	53.98	-16.33
* 15540.00	Peak	H	-	-	-63.07	14.49	-9.54	48.88	73.98	-25.10
* 20720.00	Average	H	-	-	-71.26	7.94	-9.54	34.14	53.98	-19.84
* 20720.00	Peak	H	-	-	-60.71	7.94	-9.54	44.69	73.98	-29.29
25900.00	Peak	H	-	-	-58.08	8.46	-9.54	47.84	68.20	-20.36

Table 7-32. Radiated Measurements with WCP

FCC ID: A3LSMG965F	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 124 of 207

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	100	121	-55.51	12.16	-9.54	54.11	68.20	-14.09
* 15780.00	Average	H	100	137	-71.46	14.03	-9.54	40.03	53.98	-13.95
* 15780.00	Peak	H	100	137	-57.76	14.03	-9.54	53.73	73.98	-20.25
* 21040.00	Average	H	-	-	-70.68	7.92	-9.54	34.70	53.98	-19.28
* 21040.00	Peak	H	-	-	-60.03	7.92	-9.54	45.35	73.98	-28.63
26300.00	Peak	H	-	-	-55.85	8.73	-9.54	50.34	68.20	-17.86

Table 7-33. Radiated Measurements

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	100	119	-54.81	12.04	-9.54	54.69	68.20	-13.51
* 15840.00	Average	H	100	135	-71.45	14.25	-9.54	40.25	53.98	-13.73
* 15840.00	Peak	H	100	135	-59.15	14.25	-9.54	52.55	73.98	-21.43
* 21120.00	Average	H	-	-	-71.45	7.96	-9.54	33.97	53.98	-20.01
* 21120.00	Peak	H	-	-	-60.02	7.96	-9.54	45.40	73.98	-28.58
26400.00	Peak	H	-	-	-56.52	8.94	-9.54	49.88	68.20	-18.32

Table 7-34. Radiated Measurements

FCC ID: A3LSMG965F	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 125 of 207

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	100	117	-70.26	12.06	-9.54	39.26	53.98	-14.72
* 10640.00	Peak	H	100	117	-56.64	12.06	-9.54	52.88	73.98	-21.10
* 15960.00	Average	H	100	139	-72.27	14.55	-9.54	39.74	53.98	-14.24
* 15960.00	Peak	H	100	139	-59.44	14.55	-9.54	52.57	73.98	-21.41
* 21280.00	Average	H	-	-	-70.81	8.04	-9.54	34.69	53.98	-19.29
* 21280.00	Peak	H	-	-	-58.43	8.04	-9.54	47.07	73.98	-26.91
26600.00	Peak	H	-	-	-48.85	-8.30	-9.54	40.30	68.20	-27.90

Table 7-35. Radiated Measurements

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	100	68	-59.36	12.04	-9.54	50.14	68.20	-18.06
* 15840.00	Average	H	-	-	-73.61	14.25	-9.54	38.09	53.98	-15.89
* 15840.00	Peak	H	-	-	-62.21	14.25	-9.54	49.49	73.98	-24.49
* 21120.00	Average	H	-	-	-70.80	7.96	-9.54	34.62	53.98	-19.36
* 21120.00	Peak	H	-	-	-59.92	7.96	-9.54	45.50	73.98	-28.48
26400.00	Peak	H	-	-	-57.47	8.94	-9.54	48.93	68.20	-19.27

Table 7-36. Radiated Measurements with WCP

FCC ID: A3LSMG965F	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 126 of 207

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	100	51	-71.95	12.87	-9.54	38.38	53.98	-15.60
* 11000.00	Peak	H	100	51	-58.79	12.87	-9.54	51.54	73.98	-22.44
16500.00	Peak	H	100	340	-60.14	16.61	-9.54	53.93	68.20	-14.27
22000.00	Peak	H	-	-	-57.37	8.43	-9.54	48.51	68.20	-19.69
27500.00	Peak	H	-	-	-48.23	-8.80	-9.54	40.43	68.20	-27.77

Table 7-37. 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	100	61	-66.84	12.76	-9.54	43.38	53.98	-10.60
* 11200.00	Peak	H	100	61	-56.21	12.76	-9.54	54.01	73.98	-19.97
16800.00	Peak	H	-	-	-62.43	16.64	-9.54	51.67	68.20	-16.53
* 22400.00	Average	H	-	-	-71.29	8.11	-9.54	34.28	53.98	-19.70
* 22400.00	Peak	H	-	-	-59.31	8.11	-9.54	46.26	73.98	-27.72
28000.00	Peak	H	-	-	-48.10	-9.26	-9.54	40.10	68.20	-28.10

Table 7-38. Radiated Measurements

FCC ID: A3LSMG965F		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 127 of 207

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	100	344	-63.86	12.47	-9.54	46.07	53.98	-7.91
* 11440.00	Peak	H	100	344	-52.49	12.47	-9.54	57.44	73.98	-16.54
17160.00	Peak	H	-	-	-61.62	18.06	-9.54	53.90	68.20	-14.30
* 22880.00	Average	H	-	-	-70.65	8.37	-9.54	35.18	53.98	-18.80
* 22880.00	Peak	H	-	-	-58.78	8.37	-9.54	47.05	73.98	-26.93
28600.00	Peak	H	-	-	-48.26	-8.95	-9.54	40.25	68.20	-27.95

Table 7-39. Radiated Measurements

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	100	206	-71.17	12.47	-9.54	38.76	53.98	-15.22
* 11440.00	Peak	H	100	206	-59.79	12.47	-9.54	50.14	73.98	-23.84
17160.00	Peak	H	-	-	-60.93	18.06	-9.54	54.59	68.20	-13.61
22880.00	Average	H	-	-	-81.16	8.37	-9.54	24.67	53.98	-29.31
22880.00	Peak	H	-	-	-69.31	8.37	-9.54	36.52	73.98	-37.46
28600.00	Peak	H	-	-	-48.28	-8.95	-9.54	40.23	68.20	-27.97

Table 7-40. Radiated Measurements with WCP

FCC ID: A3LSMG965F		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 128 of 207

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	100	321	-63.29	12.43	-9.54	46.60	53.98	-7.38
* 11490.00	Peak	H	100	321	-51.57	12.43	-9.54	58.32	73.98	-15.66
17235.00	Peak	H	-	-	-61.68	18.61	-9.54	54.39	68.20	-13.81
* 22980.00	Average	H	-	-	-71.30	8.16	-9.54	34.32	53.98	-19.66
* 22980.00	Peak	H	-	-	-59.80	8.16	-9.54	45.82	73.98	-28.16
28725.00	Peak	H	-	-	-47.63	-9.24	-9.54	40.59	68.20	-27.61

Table 7-41. Radiated Measurements

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	100	321	-63.09	12.54	-9.54	46.91	53.98	-7.07
* 11570.00	Peak	H	100	321	-51.66	12.54	-9.54	58.34	73.98	-15.64
17355.00	Peak	H	-	-	-60.30	18.73	-9.54	55.89	68.20	-12.31
23140.00	Peak	H	-	-	-59.15	8.37	-9.54	46.68	68.20	-21.52
28925.00	Peak	H	-	-	-48.16	-9.65	-9.54	39.65	68.20	-28.55

Table 7-42. Radiated Measurements

FCC ID: A3LSMG965F	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 129 of 207

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	100	324	-64.63	12.99	-9.54	45.81	53.98	-8.17
* 11650.00	Peak	H	100	324	-52.82	12.99	-9.54	57.62	73.98	-16.36
17475.00	Peak	H	-	-	-60.54	19.25	-9.54	56.16	68.20	-12.04
23300.00	Peak	H	-	-	-59.39	8.50	-9.54	46.56	68.20	-21.64
29125.00	Peak	H	-	-	-47.34	-9.87	-9.54	40.25	68.20	-27.95

Table 7-43. Radiated Measurements

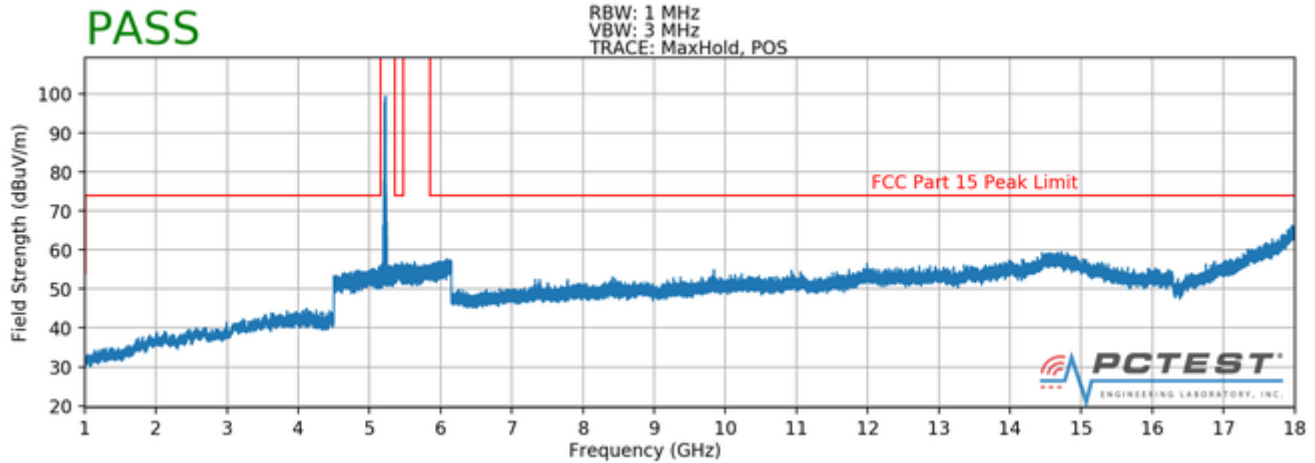
Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 mbps
Distance of Measurements: 1 Meter
Operating Frequency: 5785MHz
Channel: 157

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	100	130	-70.75	12.54	-9.54	39.25	53.98	-14.73
* 11570.00	Peak	H	100	130	-60.55	12.54	-9.54	49.45	73.98	-24.53
17355.00	Peak	H	-	-	-61.06	18.73	-9.54	55.13	68.20	-13.07
23140.00	Peak	H	-	-	-60.31	8.37	-9.54	45.52	68.20	-22.68
28925.00	Peak	H	-	-	-47.73	-9.65	-9.54	40.08	68.20	-28.12

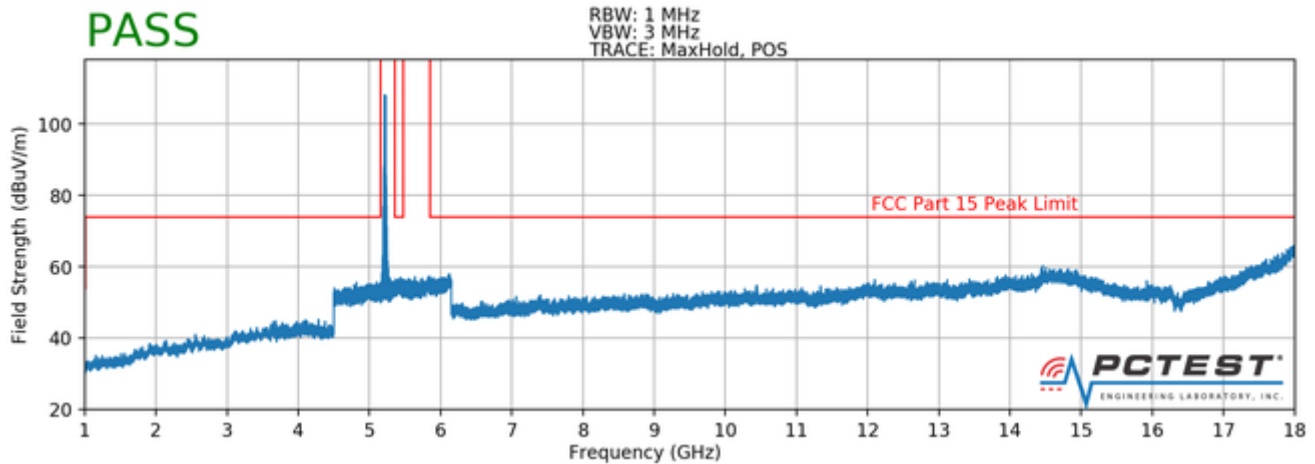
Table 7-44. Radiated Measurements with WCP

FCC ID: A3LSMG965F	 MEASUREMENT REPORT (CERTIFICATION) 		Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset	Page 130 of 207

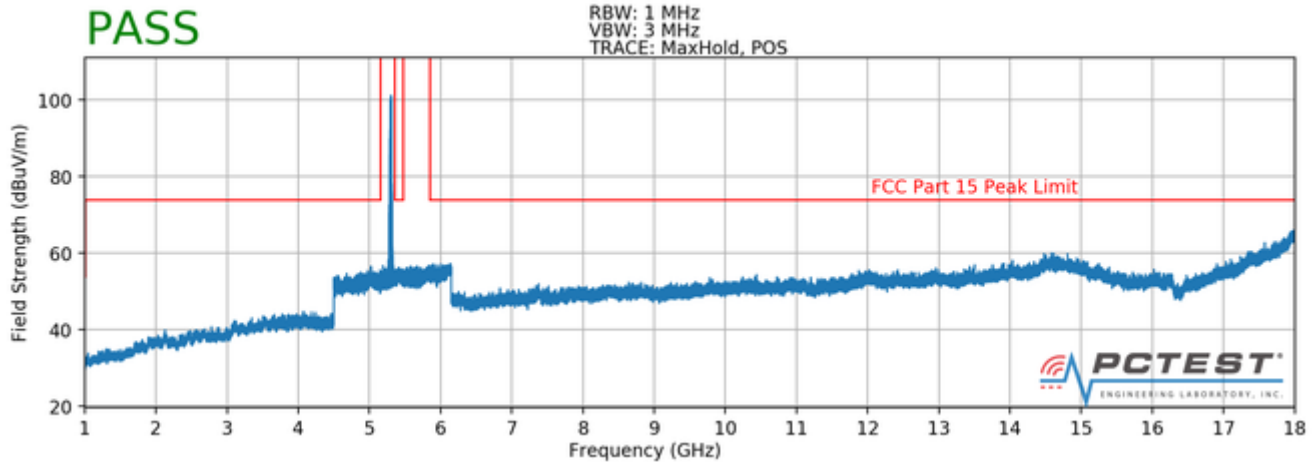
7.7.2 Antenna-2 Radiated Spurious Emission Measurements



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

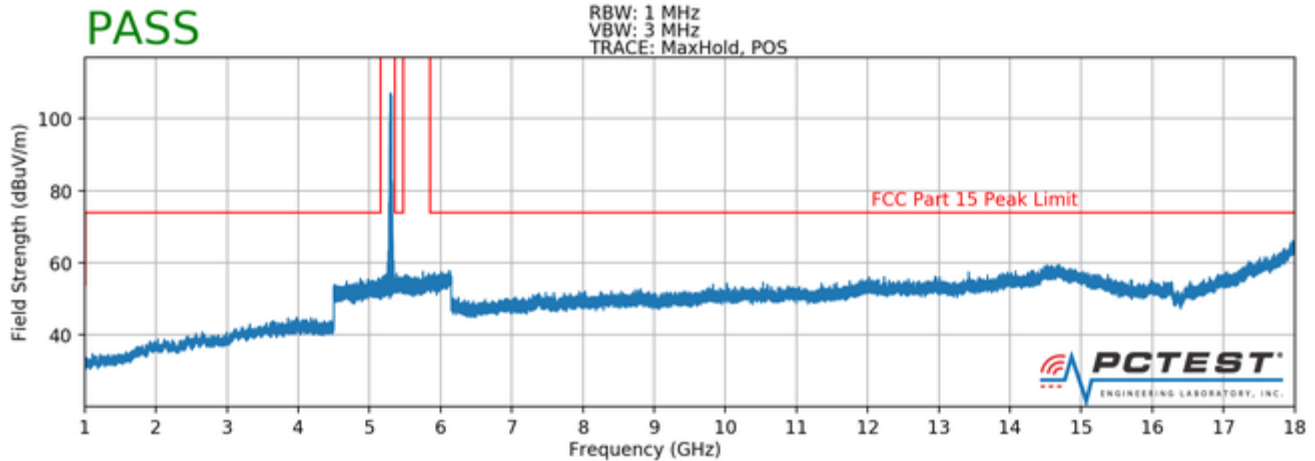


Plot 7-170. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. V)

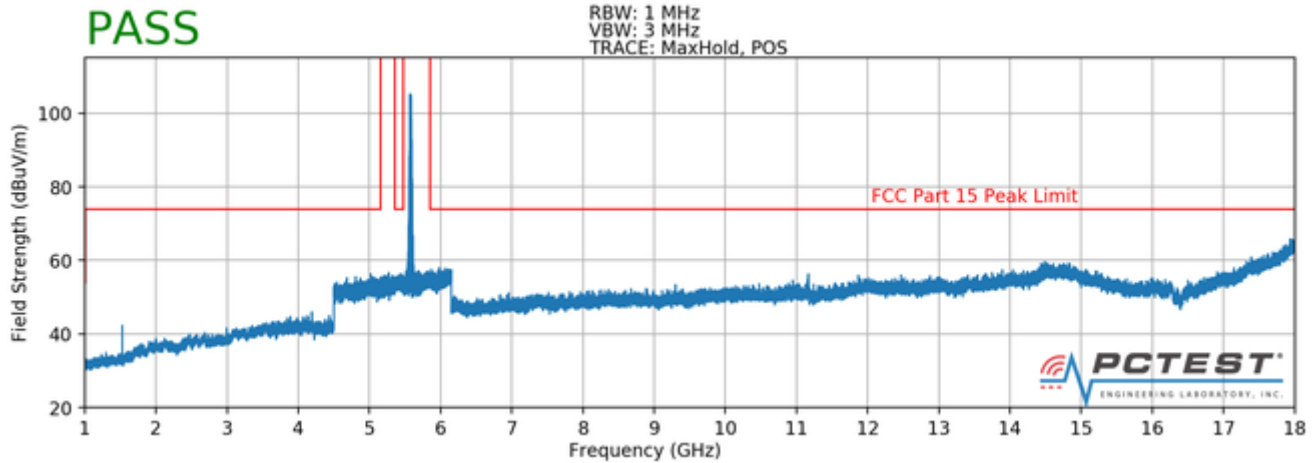


Plot 7-171. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

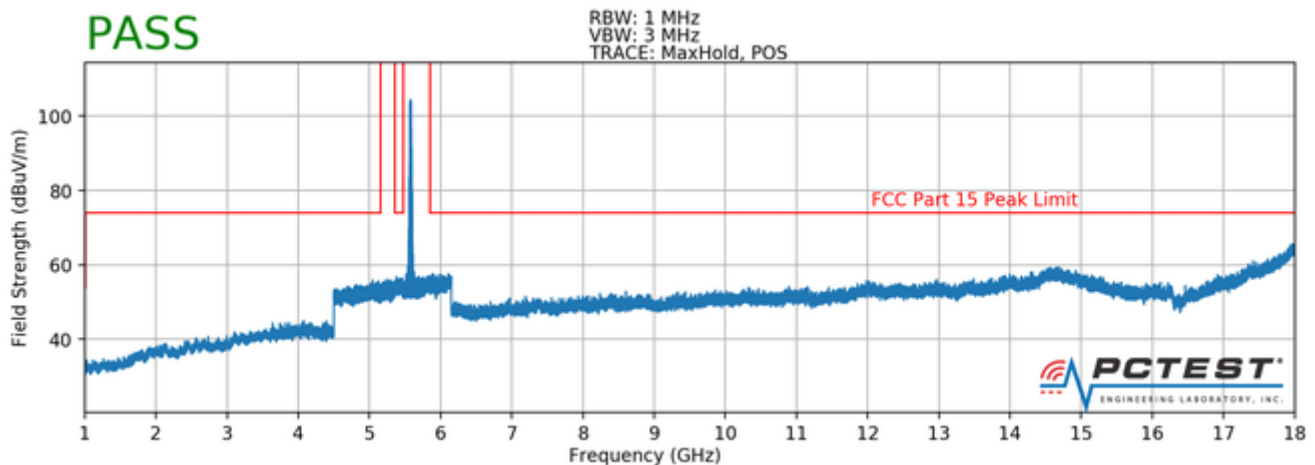
FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 131 of 207



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

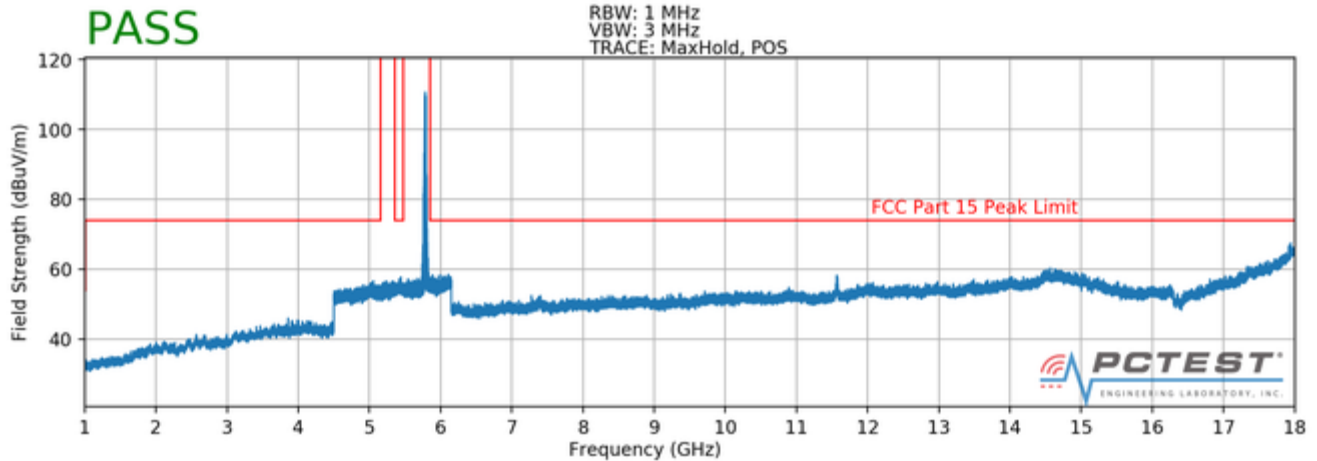


Plot 7-173. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. H)

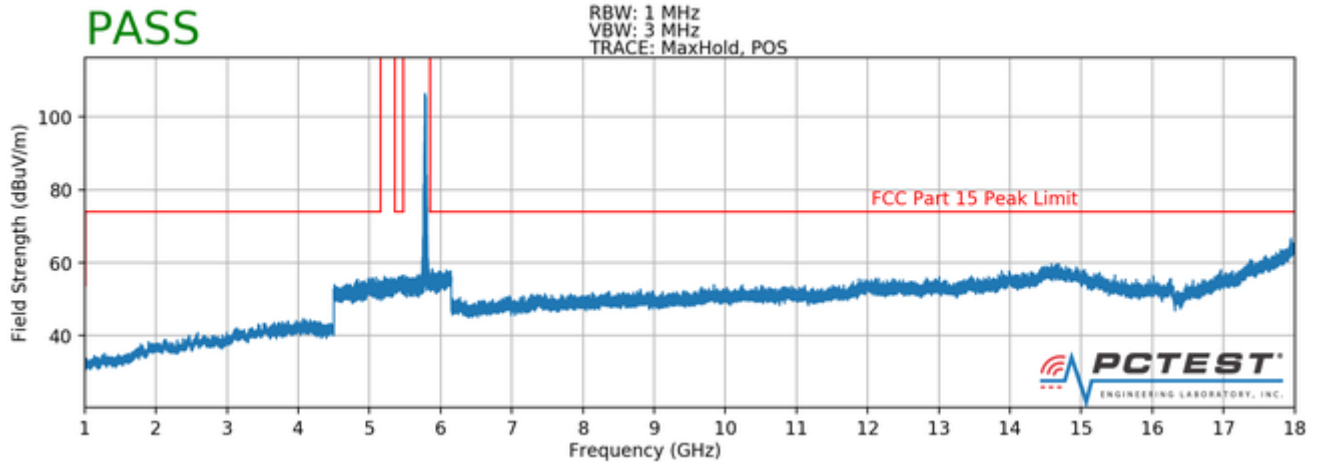


Plot 7-174. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 120, Ant. Pol. V)

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 132 of 207



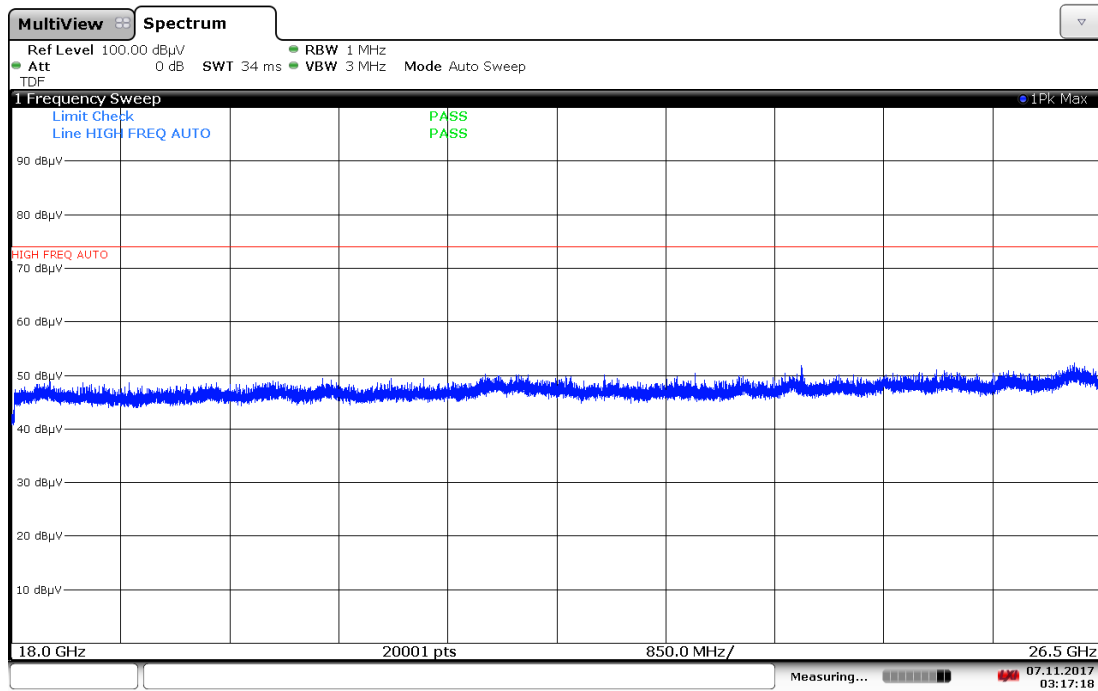
Plot 7-175. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)



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

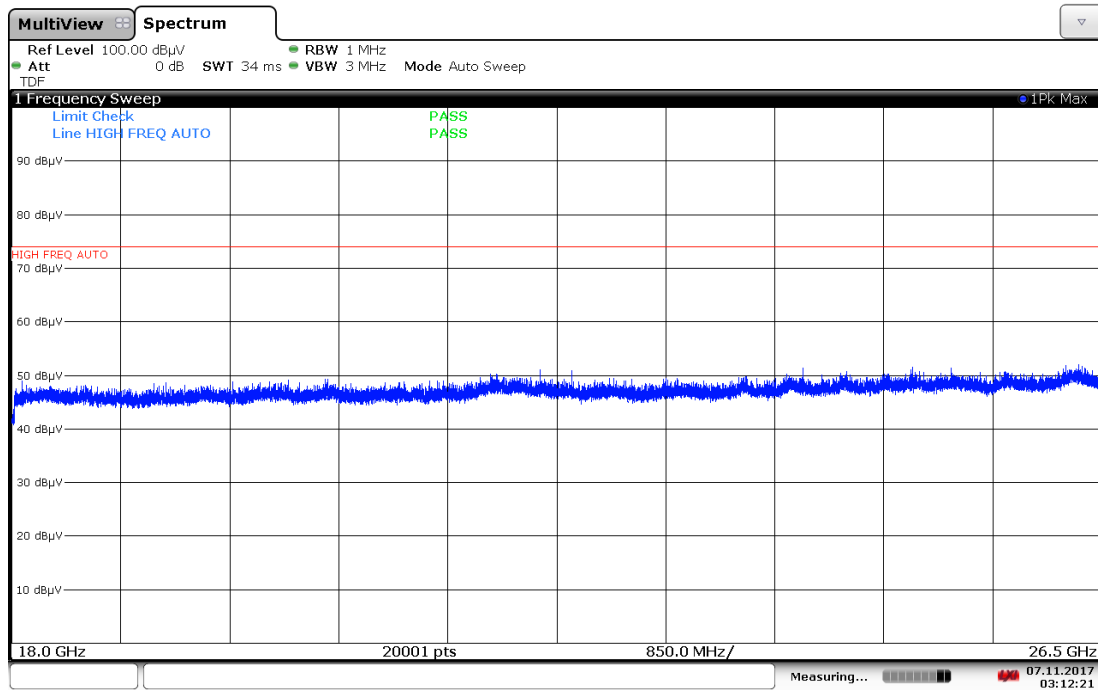
FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 133 of 207

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



03:17:19 07.11.2017

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

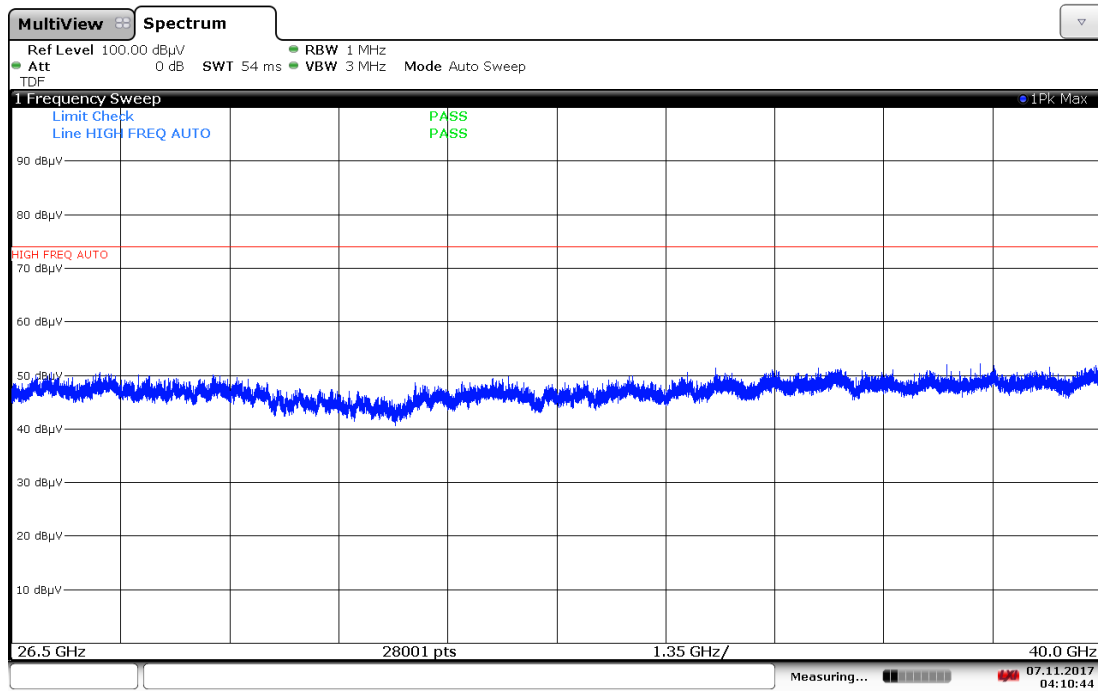


03:12:22 07.11.2017

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

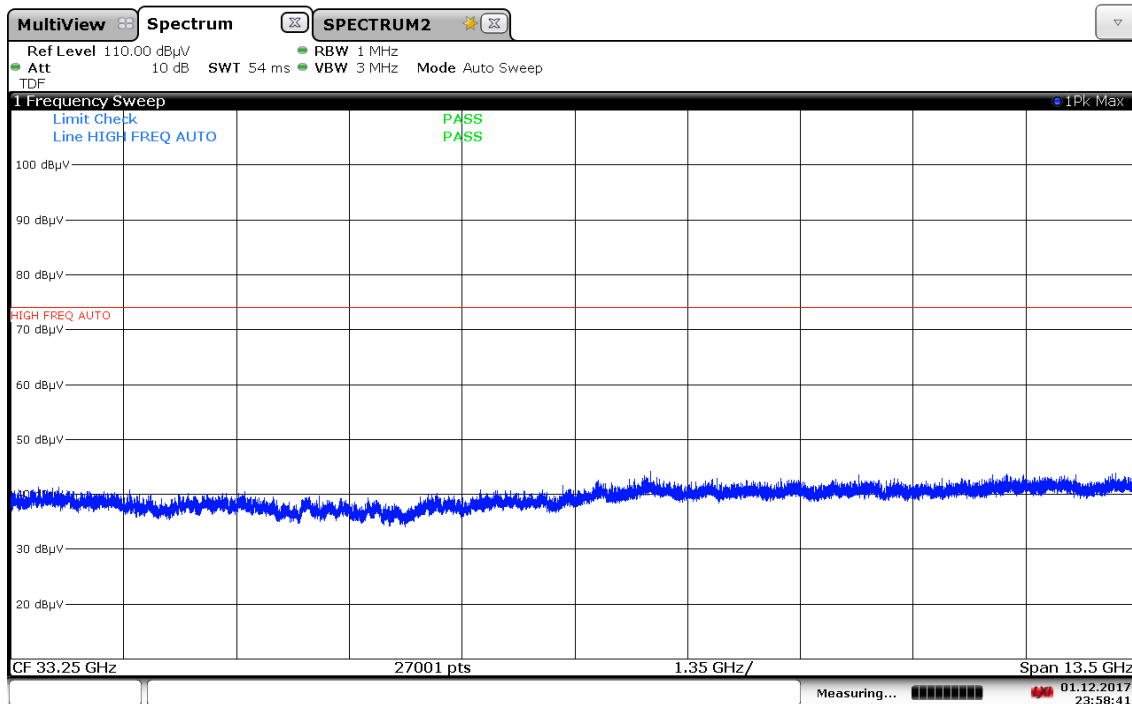
FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1710040265-06-R1.A3L	Test Dates: 10/4/2017-12/15/2017	EUT Type: Portable Handset		Page 134 of 207

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



04:10:44 07.11.2017

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



23:58:42 01.12.2017

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

FCC ID: A3LSMG965F	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Antenna-2 Radiated Spurious Emission Measurements

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

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	100	342	-55.29	12.13	-9.54	54.30	68.20	-13.90
* 15540.00	Average	H	100	30	-68.40	14.49	-9.54	43.55	53.98	-10.43
* 15540.00	Peak	H	100	30	-54.17	14.49	-9.54	57.78	73.98	-16.20
* 20720.00	Average	H	-	-	-71.14	7.94	-9.54	34.26	53.98	-19.72
* 20720.00	Peak	H	-	-	-60.13	7.94	-9.54	45.27	73.98	-28.71
25900.00	Peak	H	-	-	-70.21	8.46	-9.54	35.71	68.20	-32.49

Table 7-45. 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	100	339	-60.64	12.12	-9.54	48.94	68.20	-19.26
* 15600.00	Average	H	100	246	-71.02	14.31	-9.54	40.75	53.98	-13.23
* 15600.00	Peak	H	100	246	-57.40	14.31	-9.54	54.37	73.98	-19.61
* 20800.00	Average	H	-	-	-71.04	7.95	-9.54	34.37	53.98	-19.61
* 20800.00	Peak	H	-	-	-59.97	7.95	-9.54	45.44	73.98	-28.54
26000.00	Peak	H	-	-	-58.22	8.60	-9.54	47.84	68.20	-20.36

Table 7-46. Radiated Measurements

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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	100	345	-60.00	12.09	-9.54	49.55	68.20	-18.65
* 15720.00	Average	H	100	247	-71.38	14.02	-9.54	40.10	53.98	-13.88
* 15720.00	Peak	H	100	247	-57.92	14.02	-9.54	53.56	73.98	-20.42
* 20960.00	Average	H	-	-	-71.28	7.91	-9.54	34.09	53.98	-19.89
* 20960.00	Peak	H	-	-	-60.27	7.91	-9.54	45.10	73.98	-28.88
26200.00	Peak	H	-	-	-57.13	8.62	-9.54	48.95	68.20	-19.25

Table 7-47. Radiated Measurements

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	100	316	-59.78	12.13	-9.54	49.81	68.20	-18.39
* 15540.00	Average	H	-	-	-74.32	14.49	-9.54	37.63	53.98	-16.35
* 15540.00	Peak	H	-	-	-63.37	14.49	-9.54	48.58	73.98	-25.40
* 20720.00	Average	H	-	-	-71.21	7.94	-9.54	34.19	53.98	-19.79
* 20720.00	Peak	H	-	-	-60.74	7.94	-9.54	44.66	73.98	-29.32
25900.00	Peak	H	-	-	-57.39	8.46	-9.54	48.53	68.20	-19.67

Table 7-48. Radiated Measurements with WCP

FCC ID: A3LSMG965F	 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: 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	100	72	-60.06	12.16	-9.54	49.56	68.20	-18.64
* 15780.00	Average	H	100	244	-71.12	14.03	-9.54	40.37	53.98	-13.61
* 15780.00	Peak	H	100	244	-59.03	14.03	-9.54	52.46	73.98	-21.52
* 21040.00	Average	H	-	-	-70.77	7.92	-9.54	34.61	53.98	-19.37
* 21040.00	Peak	H	-	-	-59.79	7.92	-9.54	45.59	73.98	-28.39
26300.00	Peak	H	-	-	-56.99	8.73	-9.54	49.20	68.20	-19.00

Table 7-49. Radiated Measurements

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	100	224	-60.00	12.04	-9.54	49.50	68.20	-18.70
* 15840.00	Average	H	100	20	-72.11	14.25	-9.54	39.59	53.98	-14.39
* 15840.00	Peak	H	100	20	-59.39	14.25	-9.54	52.31	73.98	-21.67
* 21120.00	Average	H	-	-	-70.90	7.96	-9.54	34.52	53.98	-19.46
* 21120.00	Peak	H	-	-	-59.76	7.96	-9.54	45.66	73.98	-28.32
26400.00	Peak	H	-	-	-57.15	8.94	-9.54	49.25	68.20	-18.95

Table 7-50. Radiated Measurements

FCC ID: A3LSMG965F	 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: 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	100	228	-70.98	12.06	-9.54	38.54	53.98	-15.44
* 10640.00	Peak	H	100	228	-59.25	12.06	-9.54	50.27	73.98	-23.71
* 15960.00	Average	H	100	21	-72.03	14.55	-9.54	39.98	53.98	-14.00
* 15960.00	Peak	H	100	21	-60.94	14.55	-9.54	51.07	73.98	-22.91
* 21280.00	Average	H	-	-	-70.42	8.04	-9.54	35.08	53.98	-18.90
* 21280.00	Peak	H	-	-	-59.13	8.04	-9.54	46.37	73.98	-27.61
26600.00	Peak	H	-	-	-59.11	-8.30	-9.54	30.04	68.20	-38.16

Table 7-51. 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	100	41	-63.28	12.16	-9.54	46.34	68.20	-21.86
* 15780.00	Average	H	-	-	-73.97	14.03	-9.54	37.52	53.98	-16.46
* 15780.00	Peak	H	-	-	-63.58	14.03	-9.54	47.91	73.98	-26.07
* 21040.00	Average	H	-	-	-70.78	7.92	-9.54	34.60	53.98	-19.38
* 21040.00	Peak	H	-	-	-59.35	7.92	-9.54	46.03	73.98	-27.95
26300.00	Peak	H	-	-	-56.47	8.73	-9.54	49.72	68.20	-18.48

Table 7-52. Radiated Measurements with WCP

FCC ID: A3LSMG965F	 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	100	341	-69.14	12.87	-9.54	41.19	53.98	-12.79
* 11000.00	Peak	H	100	341	-57.74	12.87	-9.54	52.59	73.98	-21.39
16500.00	Peak	H	-	-	-60.60	16.61	-9.54	53.47	68.20	-14.73
22000.00	Peak	H	-	-	-58.09	8.43	-9.54	47.79	68.20	-20.41
27500.00	Peak	H	-	-	-47.69	-8.80	-9.54	40.97	68.20	-27.23

Table 7-53. 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	100	342	-66.07	12.76	-9.54	44.15	53.98	-9.83
* 11200.00	Peak	H	100	342	-55.24	12.76	-9.54	54.98	73.98	-19.00
16800.00	Peak	H	100	246	-60.20	16.64	-9.54	53.90	68.20	-14.30
* 22400.00	Average	H	-	-	-70.50	8.08	-9.54	35.04	53.98	-18.94
* 22400.00	Peak	H	-	-	-59.46	8.08	-9.54	46.08	73.98	-27.90
28000.00	Peak	H	-	-	-47.41	-9.08	-9.54	40.97	68.20	-27.23

Table 7-54. Radiated Measurements

FCC ID: A3LSMG965F		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	100	90	-63.68	12.47	-9.54	46.25	53.98	-7.73
* 11440.00	Peak	H	100	90	-52.67	12.47	-9.54	57.26	73.98	-16.72
17160.00	Peak	H	-	-	-61.80	18.06	-9.54	53.72	68.20	-14.48
* 22880.00	Average	H	-	-	-70.69	8.37	-9.54	35.14	53.98	-18.84
* 22880.00	Peak	H	-	-	-59.80	8.37	-9.54	46.03	73.98	-27.95
28600.00	Peak	H	-	-	-48.27	-8.95	-9.54	40.24	68.20	-27.96

Table 7-55. Radiated Measurements

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	100	165	-71.87	12.47	-9.54	38.06	53.98	-15.92
* 11440.00	Peak	H	100	165	-61.56	12.47	-9.54	48.37	73.98	-25.61
17160.00	Peak	H	-	-	-61.84	18.06	-9.54	53.68	68.20	-14.52
22880.00	Average	H	-	-	-70.54	8.37	-9.54	35.29	53.98	-18.69
22880.00	Peak	H	-	-	-60.40	8.37	-9.54	45.43	73.98	-28.55
28600.00	Peak	H	-	-	-47.80	-8.95	-9.54	40.71	68.20	-27.49

Table 7-56. Radiated Measurements with WCP

FCC ID: A3LSMG965F		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: 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	100	202	-65.73	12.43	-9.54	44.16	53.98	-9.82
* 11490.00	Peak	H	100	202	-54.71	12.43	-9.54	55.18	73.98	-18.80
17235.00	Peak	H	-	-	-61.47	18.61	-9.54	54.60	68.20	-13.60
* 22980.00	Average	H	-	-	-71.37	8.16	-9.54	34.25	53.98	-19.73
* 22980.00	Peak	H	-	-	-60.30	8.16	-9.54	45.32	73.98	-28.66
28725.00	Peak	H	-	-	-46.91	-9.24	-9.54	41.31	68.20	-26.89

Table 7-57. Radiated Measurements

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	100	203	-67.41	12.54	-9.54	42.59	53.98	-11.39
* 11570.00	Peak	H	100	203	-56.84	12.54	-9.54	53.16	73.98	-20.82
17355.00	Peak	H	-	-	-60.38	18.73	-9.54	55.81	68.20	-12.39
23140.00	Peak	H	100	293	-59.37	8.37	-9.54	46.46	68.20	-21.74
28925.00	Peak	H	-	-	-46.83	-9.65	-9.54	40.98	68.20	-27.22

Table 7-58. Radiated Measurements

FCC ID: A3LSMG965F	 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: 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	100	206	-70.18	12.99	-9.54	40.26	53.98	-13.72
* 11650.00	Peak	H	100	206	-59.30	12.99	-9.54	51.14	73.98	-22.84
17475.00	Peak	H	-	-	-61.11	19.25	-9.54	55.59	68.20	-12.61
23300.00	Peak	H	100	20	-60.07	8.50	-9.54	45.88	68.20	-22.32
29125.00	Peak	H	-	-	-46.74	-9.87	-9.54	40.85	68.20	-27.35

Table 7-59. 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	100	113	-70.46	12.43	-9.54	39.43	53.98	-14.55
* 11490.00	Peak	H	100	113	-60.05	12.43	-9.54	49.84	73.98	-24.14
17235.00	Peak	H	-	-	-61.83	18.61	-9.54	54.24	68.20	-13.96
22980.00	Average	H	-	-	-71.45	8.16	-9.54	34.17	53.98	-19.81
22980.00	Peak	H	-	-	-60.39	8.16	-9.54	45.23	73.98	-28.75
28725.00	Peak	H	-	-	-47.07	-9.24	-9.54	41.15	68.20	-27.05

Table 7-60. Radiated Measurements with WCP

FCC ID: A3LSMG965F		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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