

7 天線增益之要求

7.1 適用標準

依據NCC低功率射頻電機技術規範4.7.3節之要求，

4.7.3.1 使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

(C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

(C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用：

(C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

(C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

4.7.3.2 使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

(3) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

4.7.3.3 使用頻率於5.725 GHz~5.850 GHz 頻段

(3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

(4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

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7.2 天線增益

此裝置使用天線如下, 詳細規格請參考附件天線規格書。

天線型式	Supplier	Model No.	發射頻帶(MHz)	天線增益(dBi)
PCB	INPAQ	WA-P-LB-02-531	5250~5350	0.64
			5470~5725	1.19
PCB	INPAQ	WA-P-LB-02-534	5250~5350	-0.10
			5470~5725	0.24

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8 26DB & 6DB 頻寬之測試

8.1 適用標準

(1) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及 5.47 GHz~5.725 GHz 頻段，測試儀器之頻寬應設定為 1 MHz 頻寬或待測物之 26 dB 發射頻寬，兩者取較小者。

(2) 5.725 GHz~5.850 GHz 頻段，測試儀器之頻寬應設定為 500 kHz 或待測物之 26dB 發射頻寬，兩者取較小者。

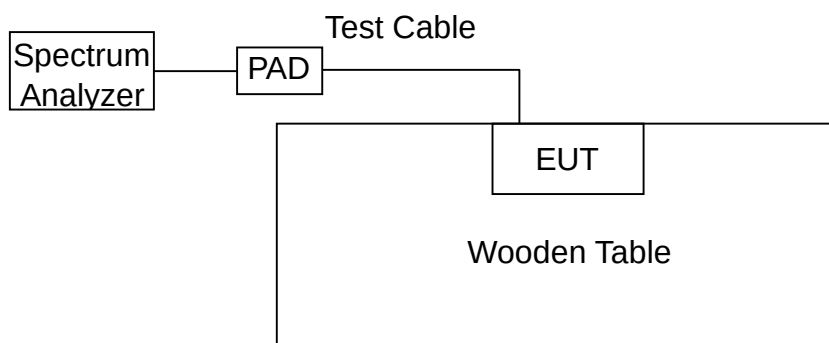
解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

8.2 量測方法

將發射機之天線埠經由適當之衰減直接連至測試儀器。

設定儀器之解析頻寬為 100KHz, 視訊頻寬 $\geq$ 解析頻寬, 頻率掃描範圍(span)大於解析頻寬

8.3 測試配置



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8.4 量測結果

802.11a_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5260	30	14.771
5300	30	14.771
5320	18.95	12.776
5500	18.84	12.751
5580	30	14.771
5700	19.58	12.918
5720	18.82	12.746

802.11a_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5260	30	14.771
5300	30	14.771
5320	25.3	14.031
5500	19.13	12.817
5580	24.09	13.818
5700	19.5	12.900
5720	18.7	12.718

802.11n_HT20_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5260	30	14.771
5300	30	14.771
5320	19.92	12.993
5500	19.68	12.940
5580	30	14.771
5700	19.7	12.945
5720	19.57	12.916

802.11n_HT20_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5260	30	14.771
5300	23.75	13.757
5320	20.04	13.019
5500	19.61	12.925
5580	23.24	13.662
5700	19.64	12.931
5720	19.73	12.951

802.11n_HT40_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5270	46.43	16.668
5310	42.32	16.265
5510	42.73	16.307
5550	50	16.990
5670	44.52	16.486
5710	40.17	16.039

802.11n_HT40_Ch1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5270	49.24	16.923
5310	40.79	16.106
5510	42.02	16.235
5550	41.06	16.134
5670	42.46	16.280
5710	40.74	16.100

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802.11ac_VHT80_Ch0

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5290	80.23	19.043
5530	80.56	19.061
5610	100	20.000
5690	80.1	19.036

802.11ac_VHT80_Ch1

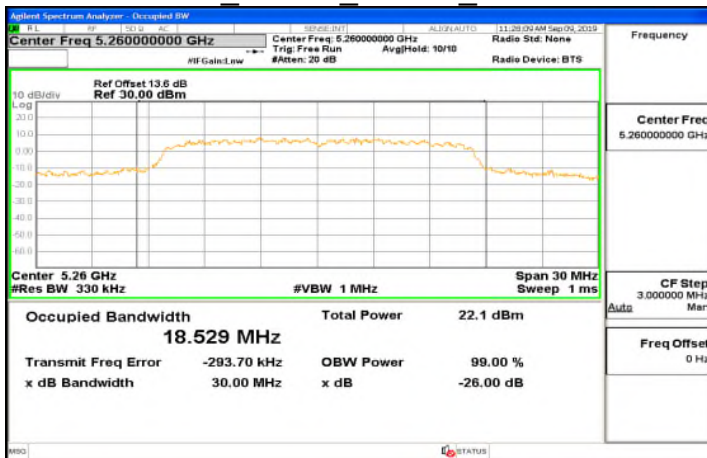
Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5290	82.65	19.172
5530	83.09	19.195
5610	84.53	19.270
5690	82.25	19.151

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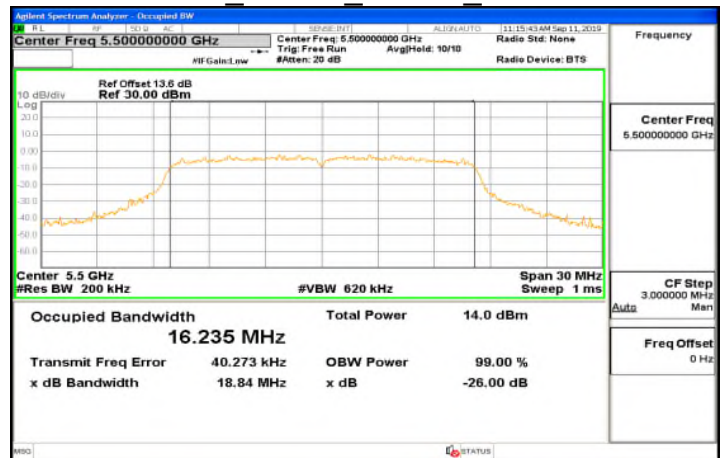
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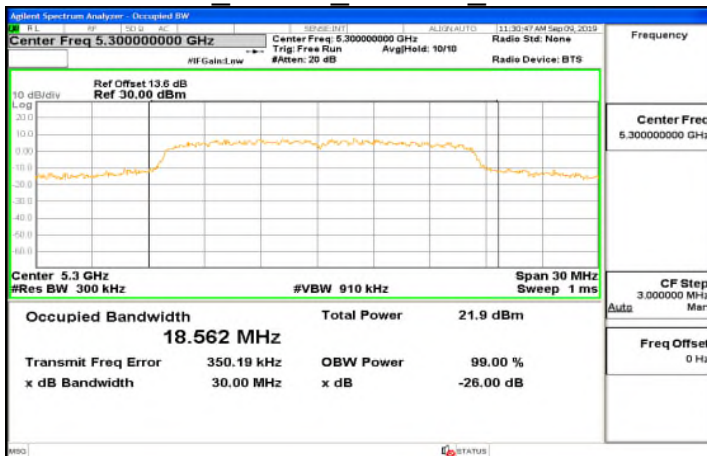
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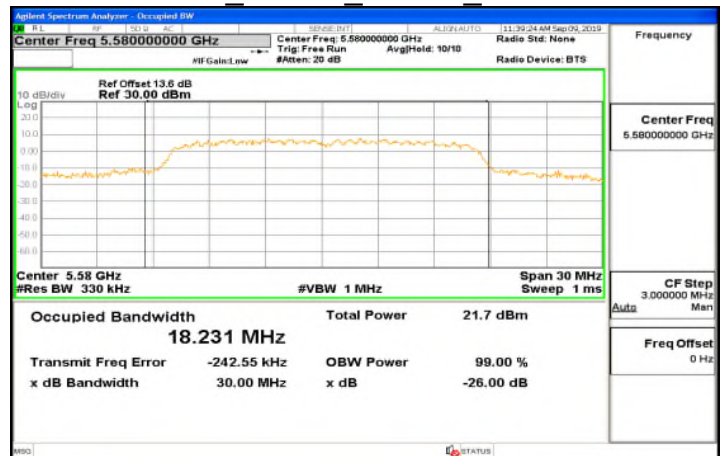
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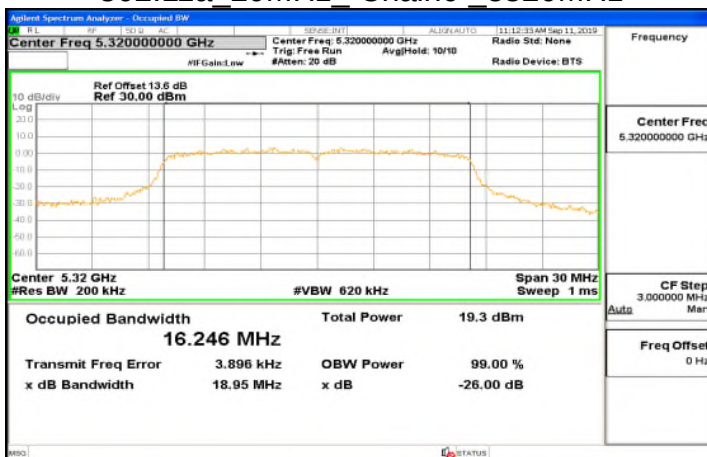
802.11a 20MHz Chain0 5300MHz



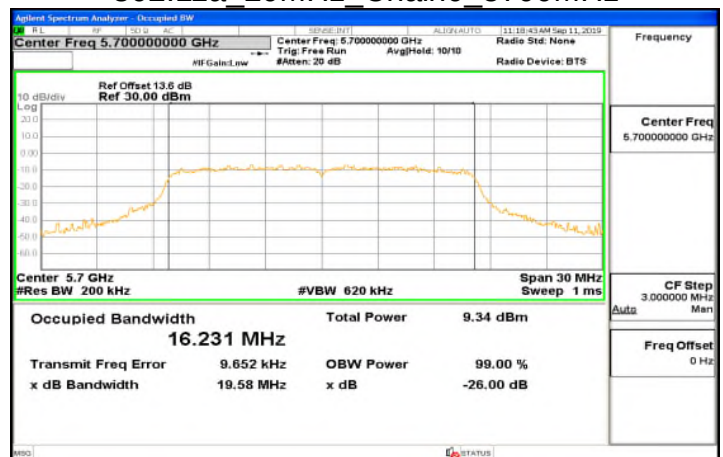
802.11a 20MHz Chain0 5580MHz



802.11a 20MHz Chain0 5320MHz



802.11a 20MHz Chain0 5700MHz



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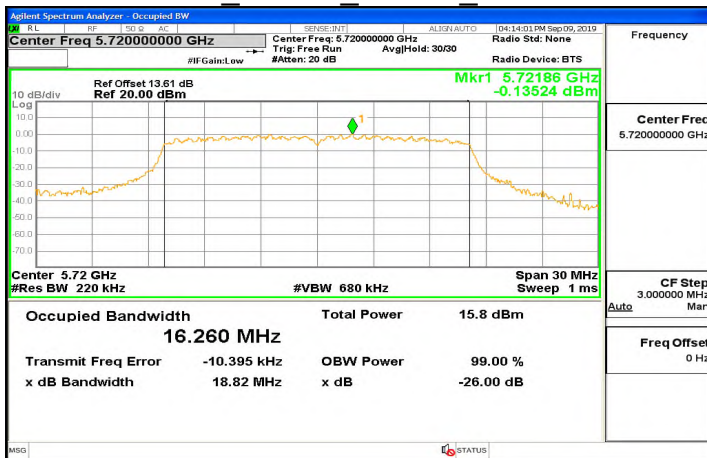
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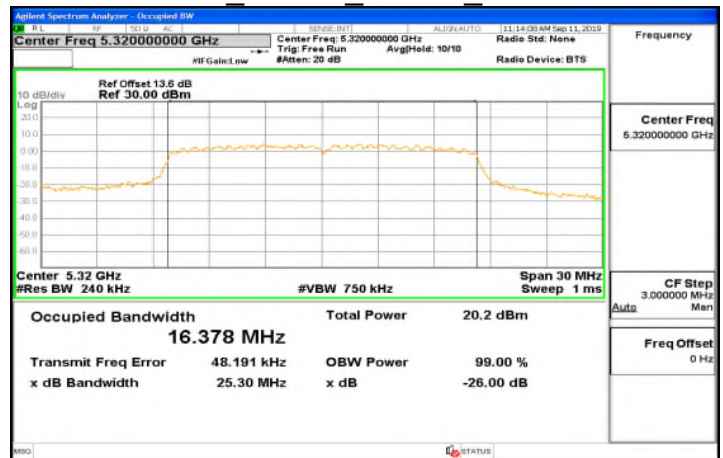
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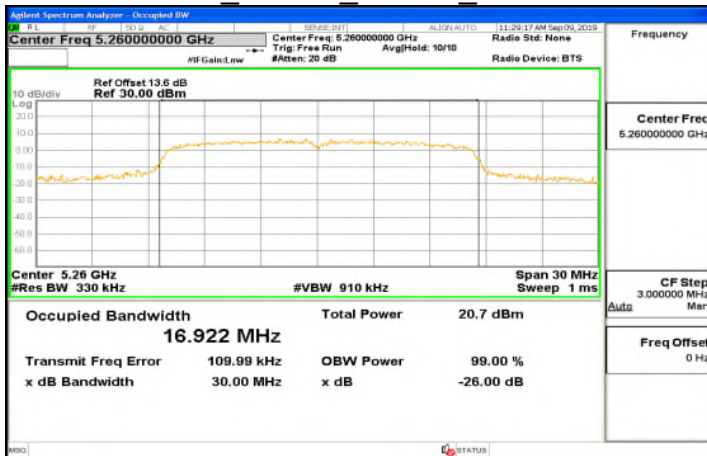
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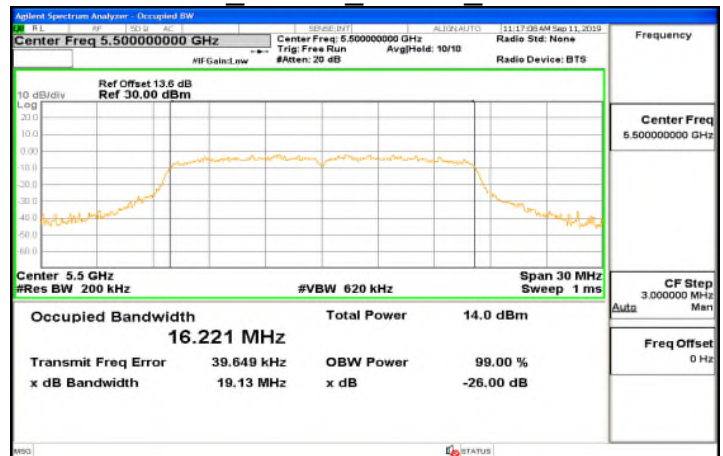
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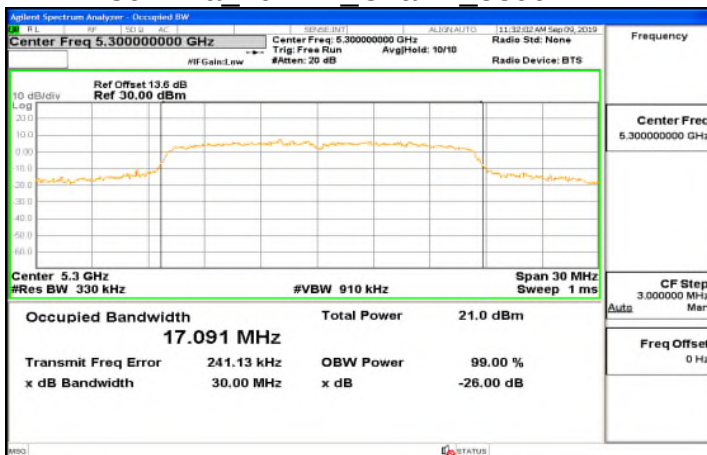
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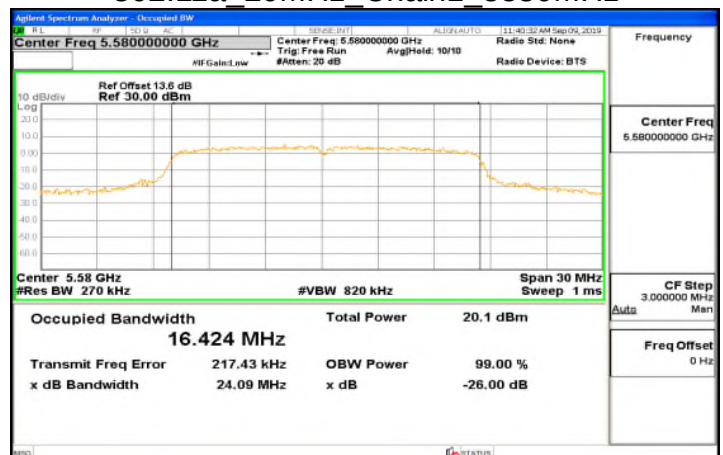
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802.11a 20MHz Chain1 5300MHz



802.11a 20MHz Chain1 5580MHz



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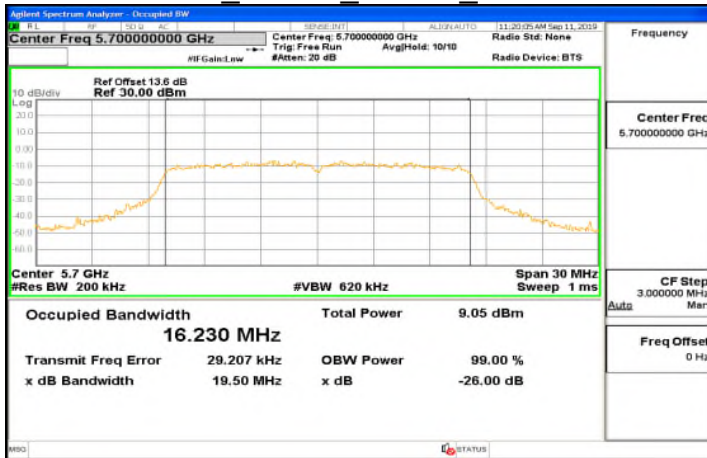
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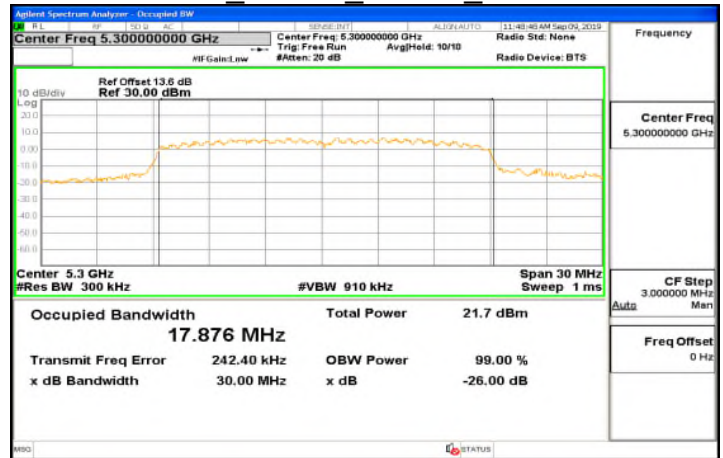
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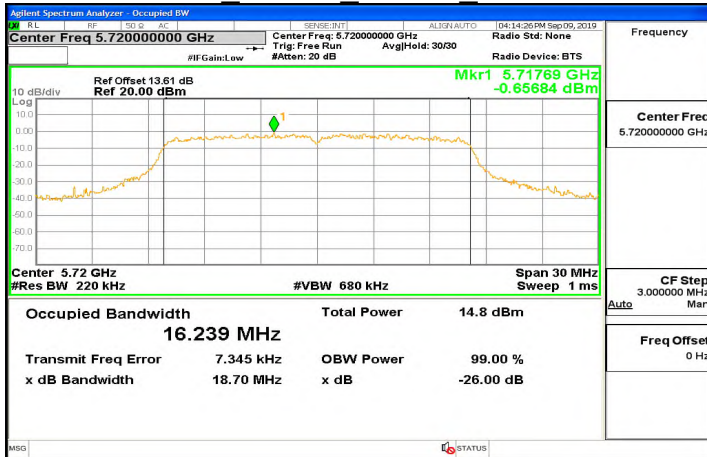
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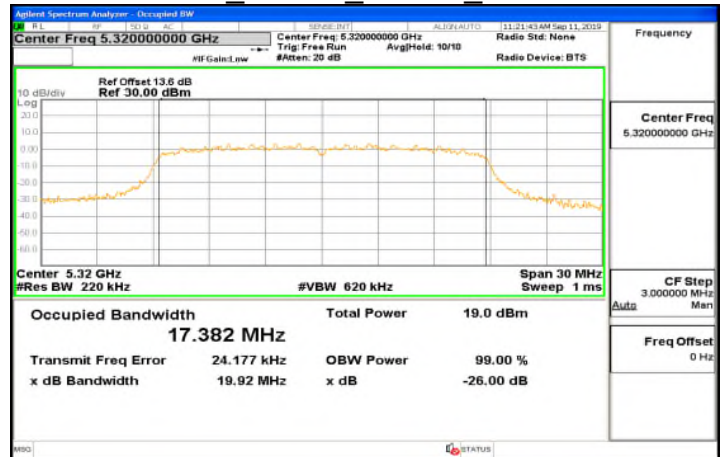
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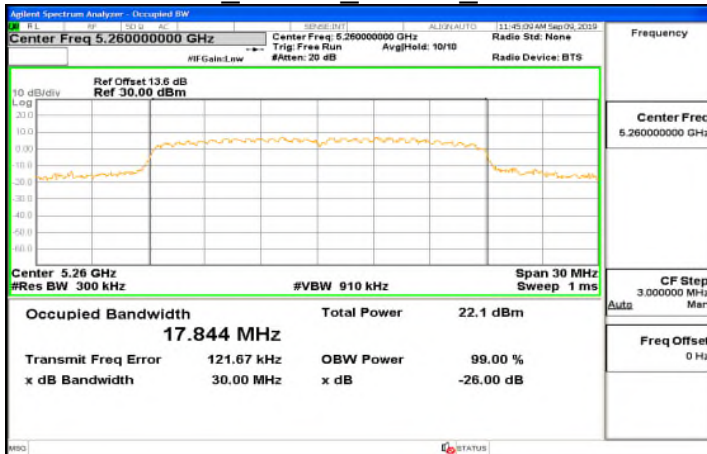
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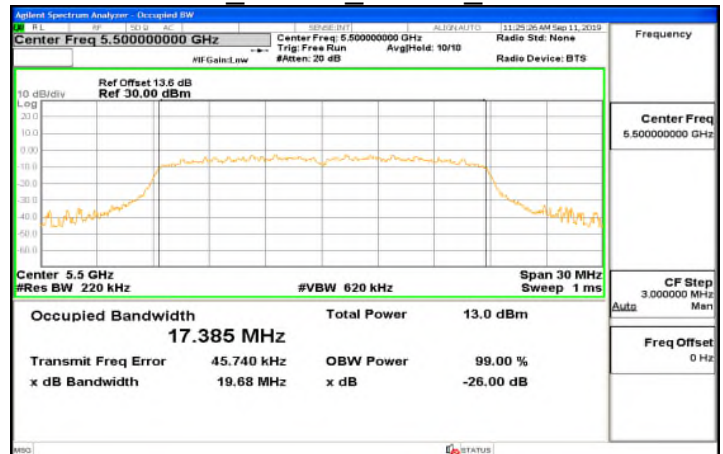
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802.11n 20MHz Chain0 5260MHz



802.11n 20MHz Chain0 5500MHz



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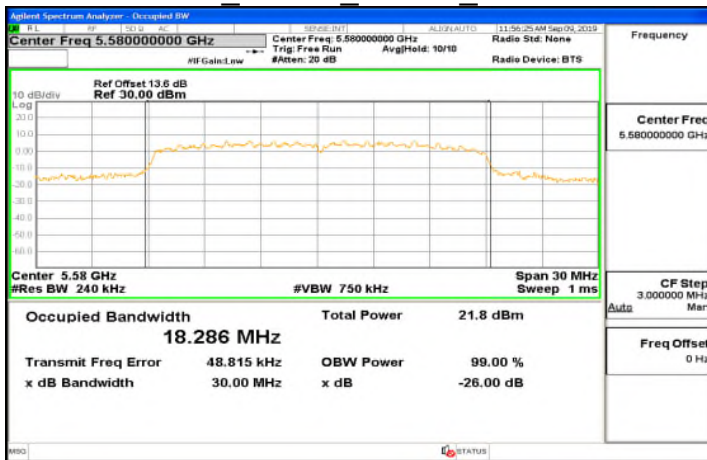
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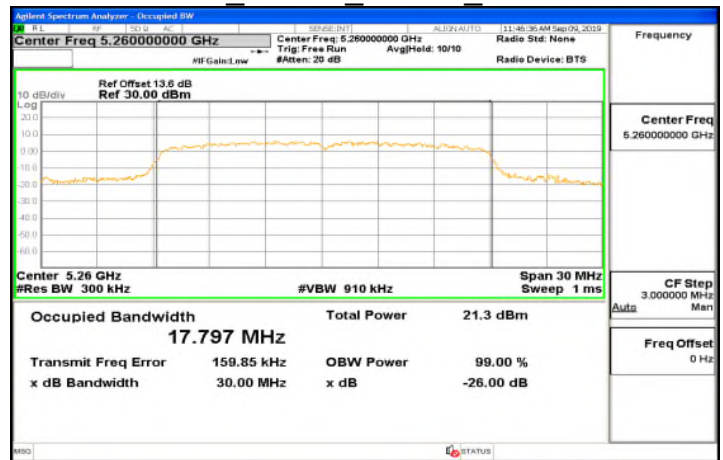
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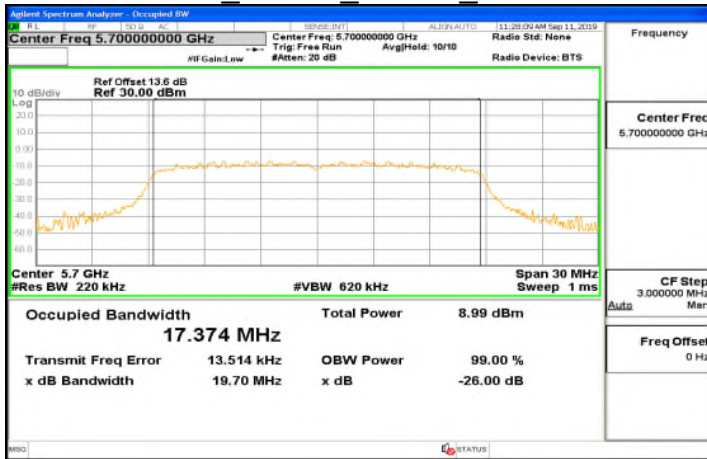
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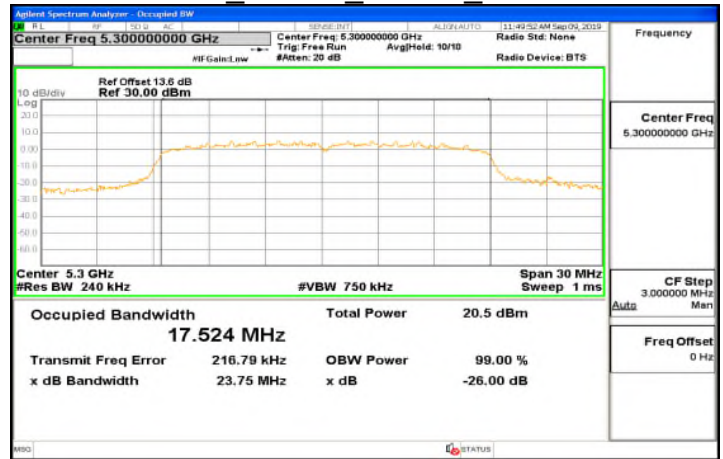
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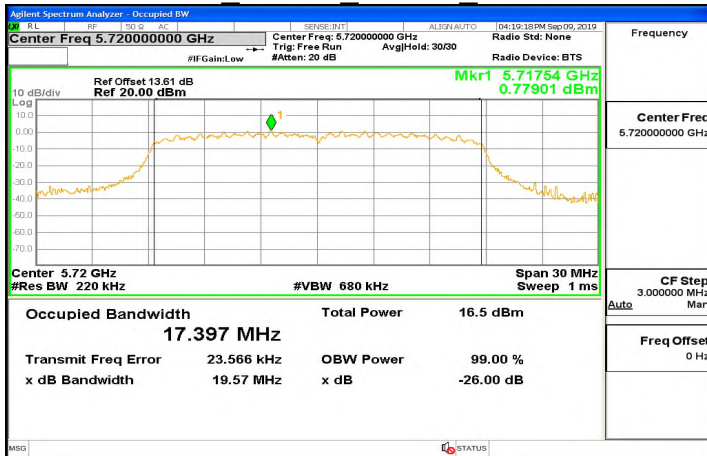
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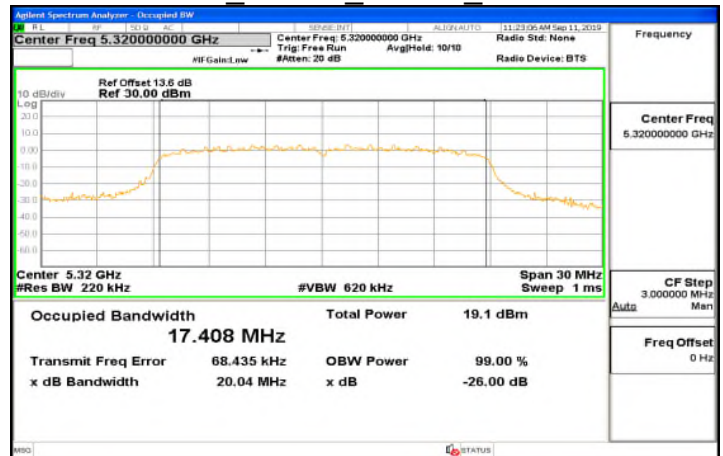
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802.11n 20MHz Chain1 5320MHz



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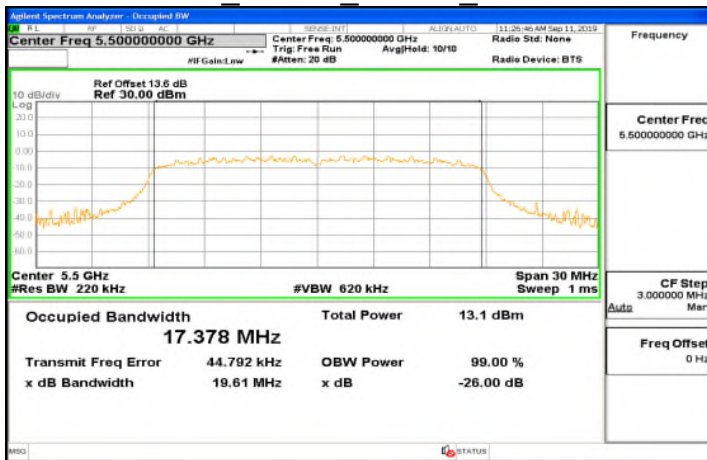
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f (886-2) 2298-0488

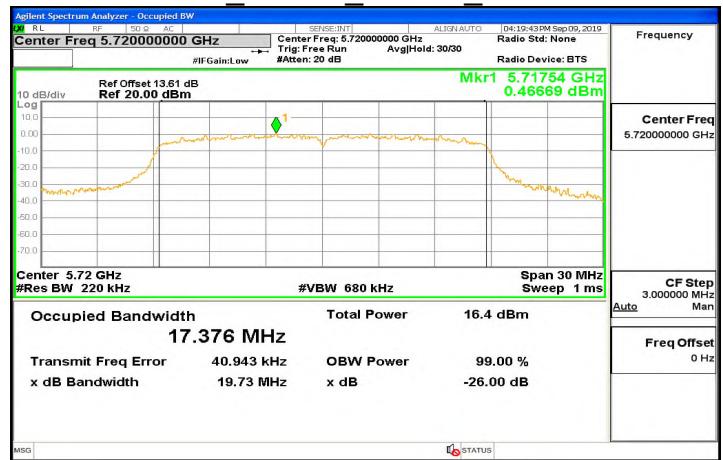
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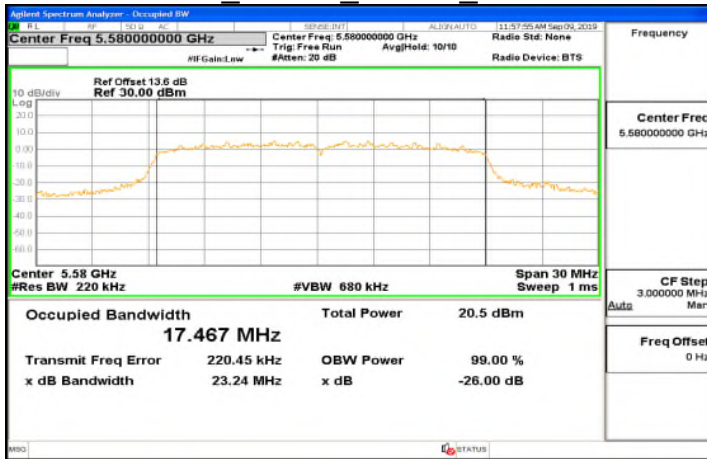
802.11n 20MHz Chain1 5500MHz



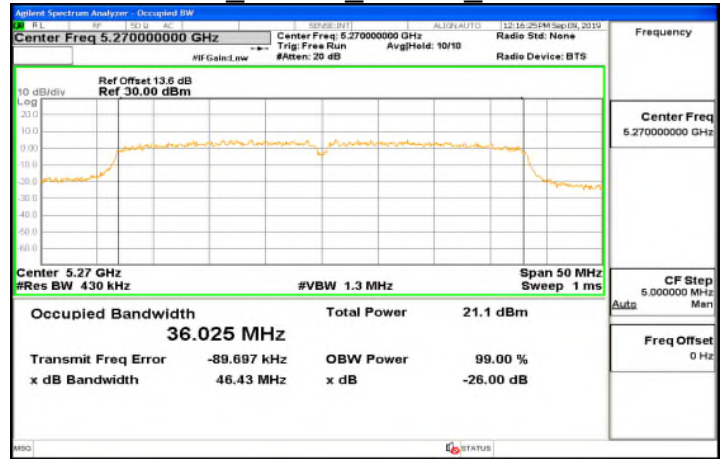
802.11n 20MHz Chain1 5720MHz



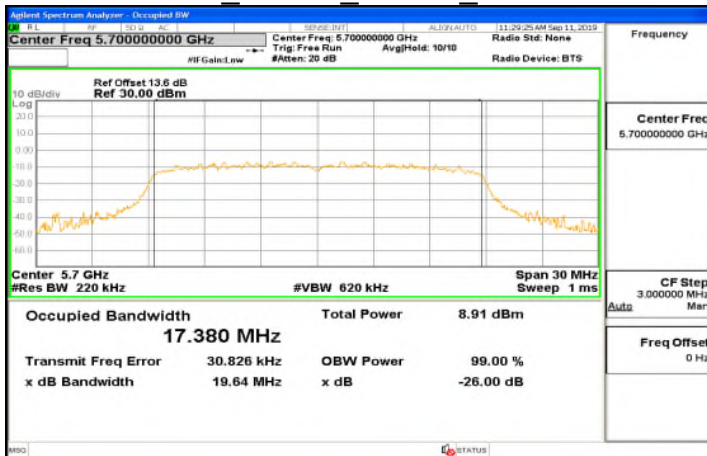
802.11n 20MHz Chain1 5580MHz



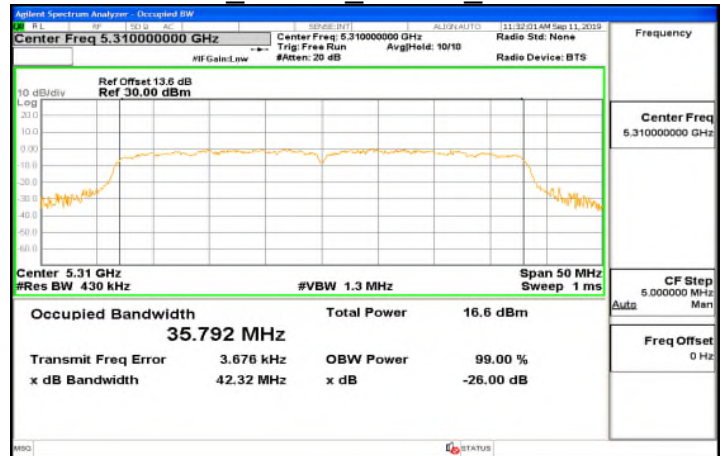
802.11n 40MHz Chain0 5270MHz



802.11n 20MHz Chain1 5700MHz



802.11n 40MHz Chain0 5310MHz



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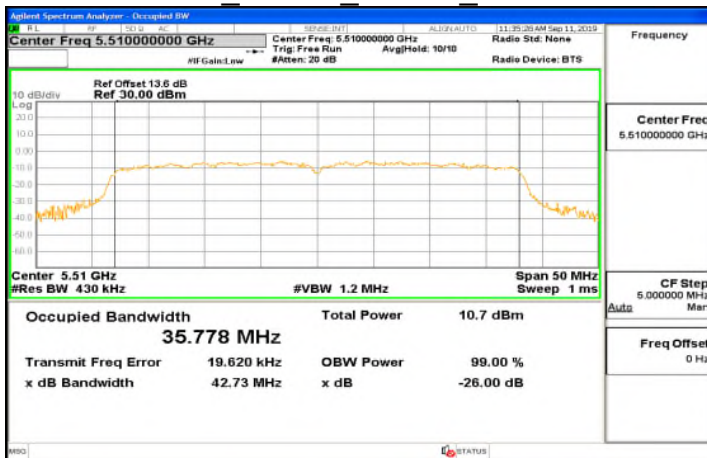
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f (886-2) 2298-0488

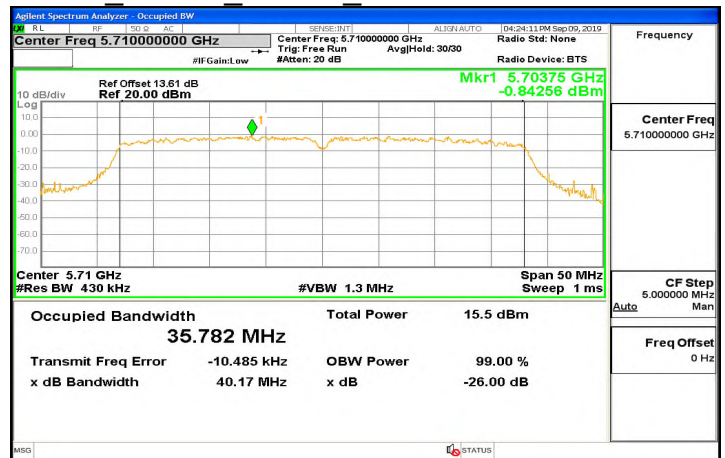
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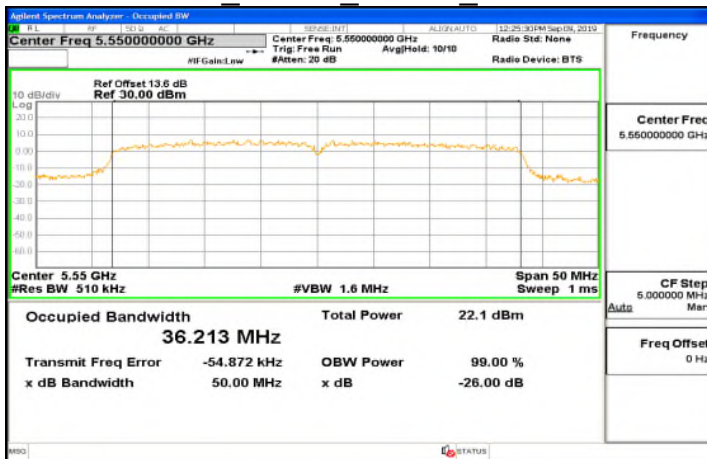
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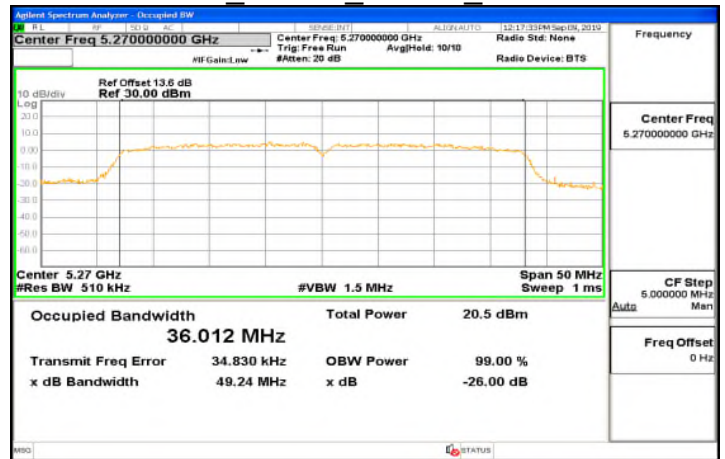
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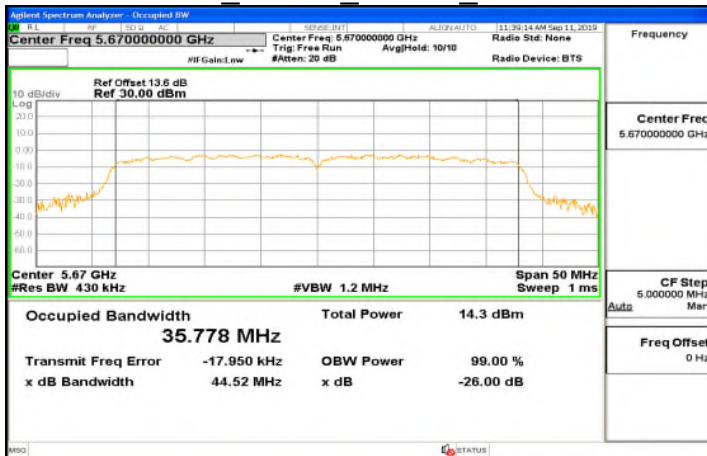
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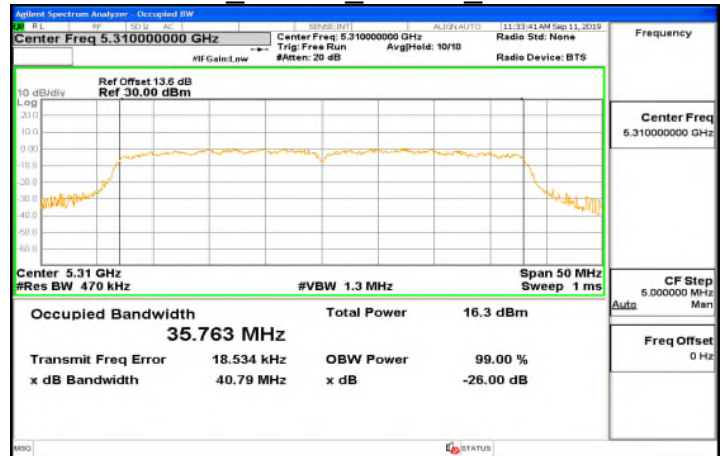
802.11n 40MHz Chain1 5270MHz



802.11n 40MHz Chain0 5670MHz



802.11n 40MHz Chain1 5310MHz



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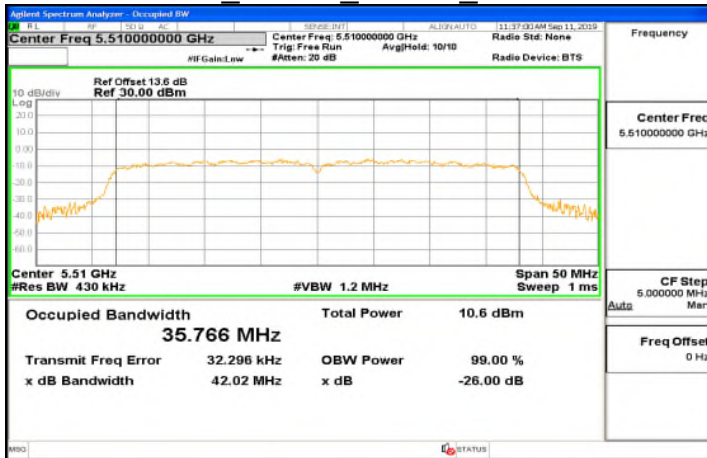
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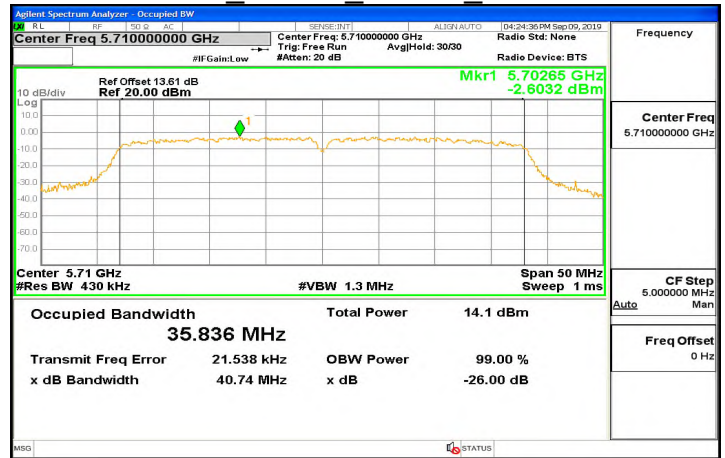
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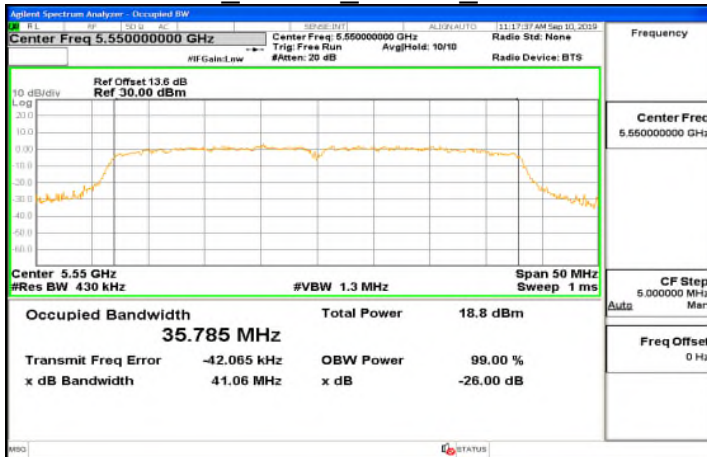
802.11n 40MHz Chain1 5510MHz



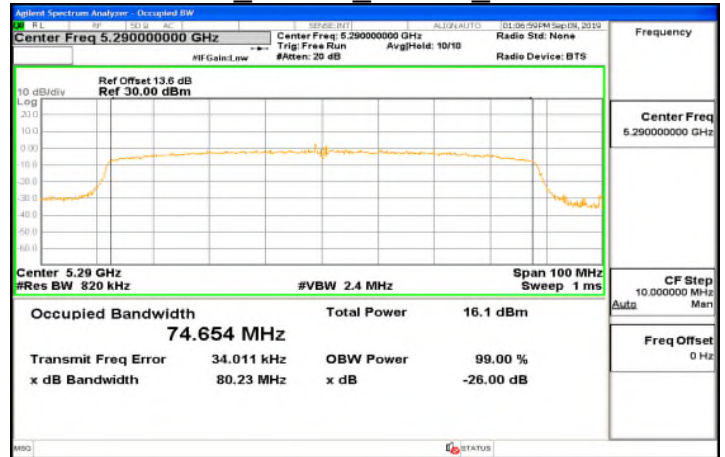
802.11n 40MHz Chain1 5710MHz



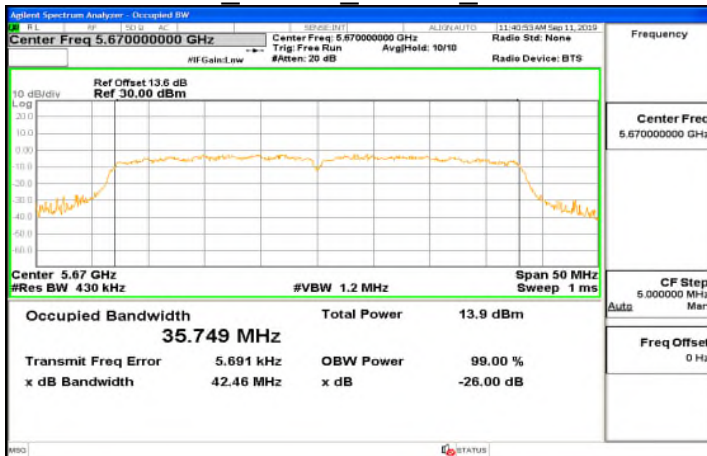
802.11n 40MHz Chain1 5550MHz



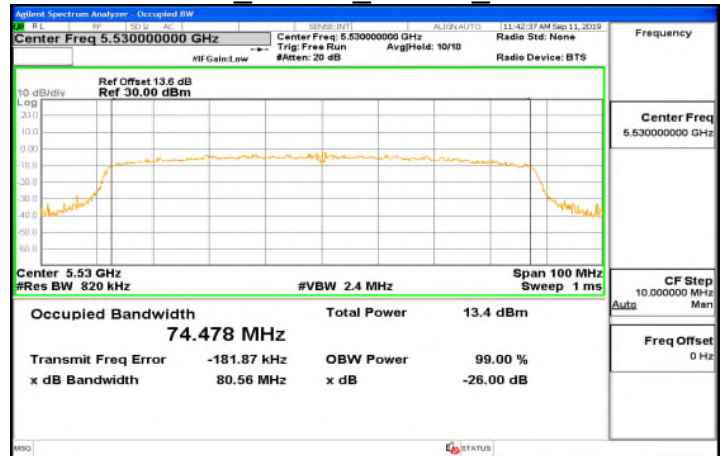
802.11ac 80MHz Chain0 5290MHz



802.11n 40MHz Chain1 5670MHz



802.11ac 80MHz Chain0 5530MHz



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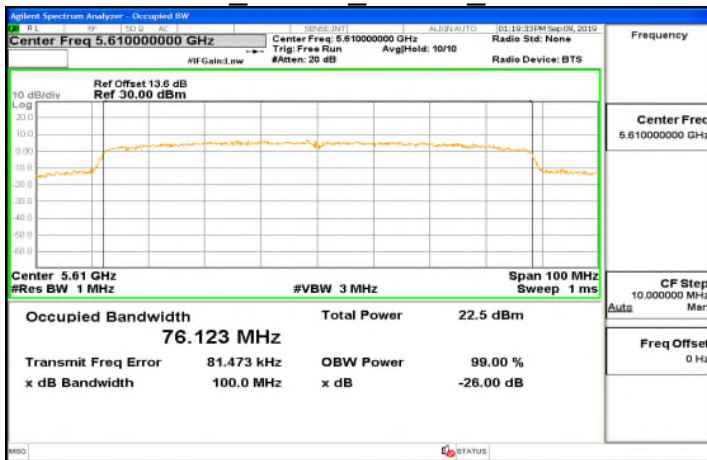
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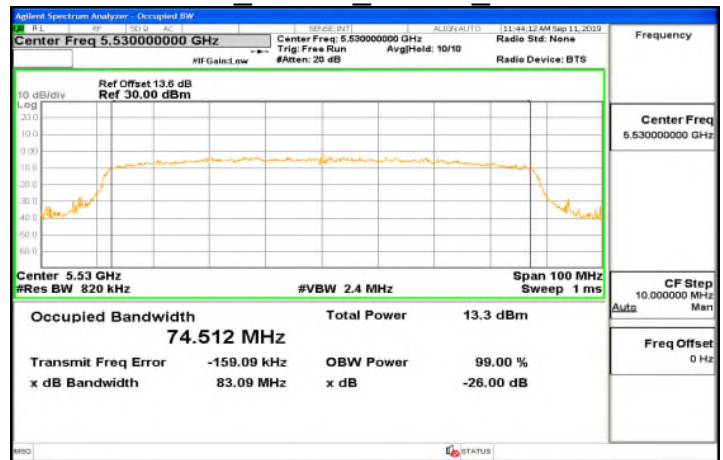
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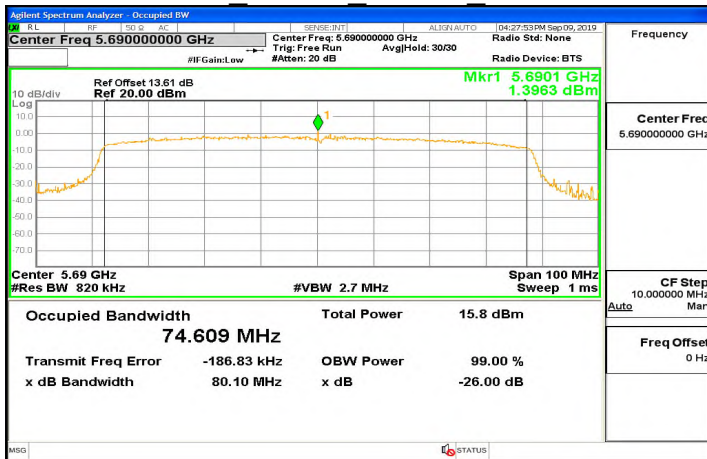
802.11ac 80MHz Chain0 5610MHz



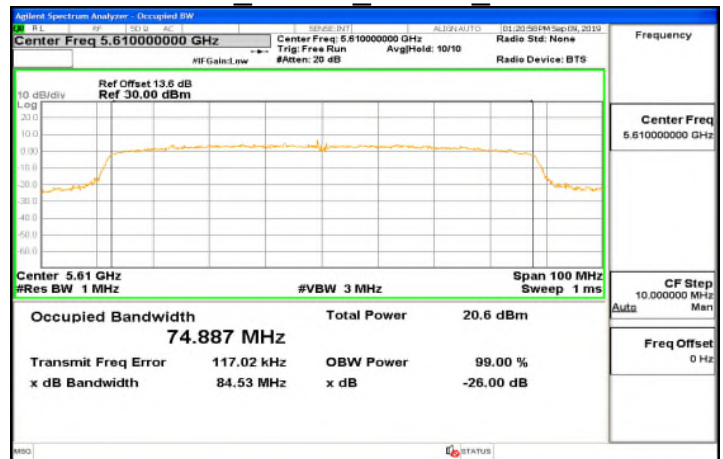
802.11ac 80MHz Chain1 5530MHz



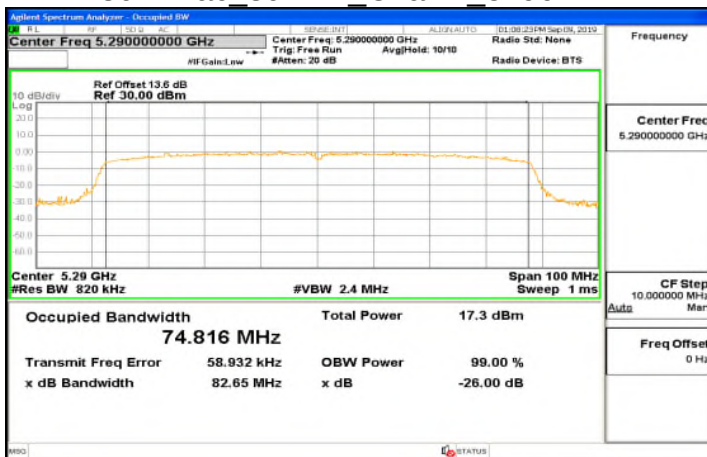
802.11ac 80MHz Chain0 5690MHz



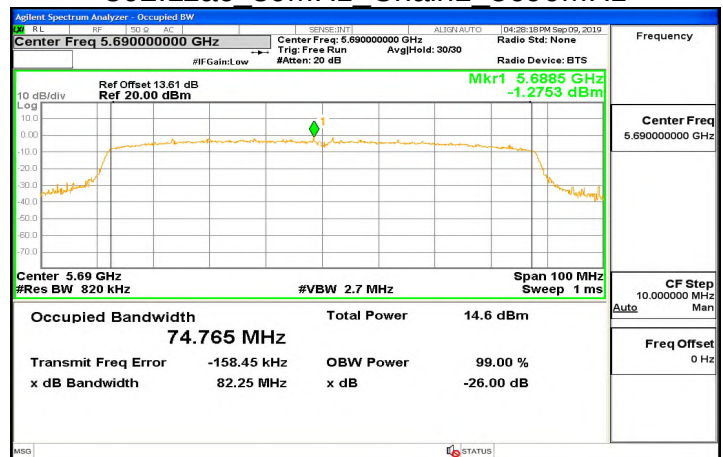
802.11ac 80MHz Chain1 5610MHz



802.11ac 80MHz Chain1 5290MHz



802.11ac 80MHz Chain1 5690MHz



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9 輸出峰值功率之量測

9.1 適用標準

依據NCC低功率射頻電機技術規範4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

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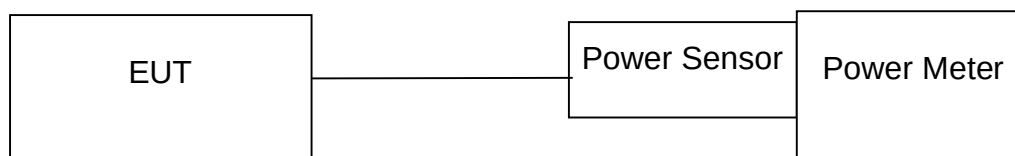
使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

9.2 測試方法

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10 \cdot \log(1/x)$ ($x=0.99$), 0.04 approximately
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 輸出功率之測試配置



9.4 量測儀器設備

同本報告 4.3 節傳導配置圖

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9.5 輸出功率之量測結果

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	6	14.64	29.108	23.98 or 11+10log(B) = 25.77	PASS
60	5300	6	14.76	29.923	23.98 or 11+10log(B) = 25.77	PASS
64	5320	6	13.94	24.775	23.98 or 11+10log(B) = 23.78	PASS
100	5500	6	12.96	19.770	23.98 or 11+10log(B) = 23.75	PASS
116	5580	6	14.73	29.717	23.98 or 11+10log(B) = 25.77	PASS
140	5700	6	13.55	22.647	23.98 or 11+10log(B) = 23.92	PASS
144	5720(U-NII 2C)	6	8.95	7.85	23.98 or 11+10log(B) = 23.75	PASS
144	5720 (U-NII 3)	6	3.81	2.40	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	6	14.22	26.424	23.98 or 11+10log(B) = 25.77	PASS
60	5300	6	14.55	28.511	23.98 or 11+10log(B) = 25.77	PASS
64	5320	6	13.55	22.647	23.98 or 11+10log(B) = 25.03	PASS
100	5500	6	13.65	23.174	23.98 or 11+10log(B) = 23.82	PASS
116	5580	6	15.04	31.916	23.98 or 11+10log(B) = 24.82	PASS
140	5700	6	14.00	25.119	23.98 or 11+10log(B) = 23.90	PASS
144	5720(U-NII 2C)	6	8.71	7.43	23.98 or 11+10log(B) = 23.72	PASS
144	5720 (U-NII 3)	6	3.53	2.25	30	PASS

802.11a_2Tx

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
52	5260	6	14.7	14.9	17.96	62.539	23.98 or 11+10log(B) = 25.77		PASS
60	5300	6	14.3	15.1	17.92	61.913	23.98 or 11+10log(B) = 25.77		PASS
64	5320	6	13.3	12.8	16.20	41.709	23.98 or 11+10log(B) = 23.78		PASS
100	5500	6	7.83	6.95	10.59	11.462	23.98 or 11+10log(B) = 23.75		PASS
116	5580	6	14.5	15.2	18.00	63.082	23.98 or 11+10log(B) = 24.82		PASS
140	5700	6	4.79	3.26	7.27	5.336	23.98 or 11+10log(B) = 23.90		PASS
144	5720(U-NII 2C)	6	8.23	9.38	12.02	15.915	23.98 or 11+10log(B) = 23.72		PASS
144	5720 (U-NII 3)	6	3.09	4.20	6.88	4.871	30		PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
52	5260	MCS0	15.05	31.993	23.98	or 11+10log(B) = 25.77	PASS
60	5300	MCS0	14.73	29.720	23.98	or 11+10log(B) = 25.77	PASS
64	5320	MCS0	14.06	25.471	23.98	or 11+10log(B) = 23.99	PASS
100	5500	MCS0	13.13	20.561	23.98	or 11+10log(B) = 23.94	PASS
116	5580	MCS0	15.33	34.123	23.98	or 11+10log(B) = 25.77	PASS
140	5700	MCS0	13.41	21.931	23.98	or 11+10log(B) = 23.94	PASS
144	5720(U-NII 2C)	MCS0	9.33	8.58	23.98	or 11+10log(B) = 23.92	PASS
144	5720 (U-NII 3)	MCS0	4.43	2.78	30		PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
52	5260	MCS0	14.99	31.554	23.98	or 11+10log(B) = 25.77	PASS
60	5300	MCS0	14.76	29.926	23.98	or 11+10log(B) = 24.76	PASS
64	5320	MCS0	14.24	26.549	23.98	or 11+10log(B) = 24.02	PASS
100	5500	MCS0	13.23	21.040	23.98	or 11+10log(B) = 23.92	PASS
116	5580	MCS0	15.45	35.079	23.98	or 11+10log(B) = 24.66	PASS
140	5700	MCS0	13.60	22.911	23.98	or 11+10log(B) = 23.93	PASS
144	5720(U-NII 2C)	MCS0	9.23	8.38	23.98	or 11+10log(B) = 23.95	PASS
144	5720 (U-NII 3)	MCS0	4.38	2.74	30		PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
52	5260	MCS8	14.9	15.1	18.19	65.947	23.98	or 11+10log(B) = 25.77	PASS
60	5300	MCS8	14.6	14.8	17.86	61.122	23.98	or 11+10log(B) = 24.76	PASS
64	5320	MCS8	13	12.2	15.80	37.989	23.98	or 11+10log(B) = 23.99	PASS
100	5500	MCS8	7.65	6.43	10.26	10.626	23.98	or 11+10log(B) = 23.92	PASS
116	5580	MCS8	14.7	15.4	18.24	66.641	23.98	or 11+10log(B) = 24.66	PASS
140	5700	MCS8	4.62	2.74	6.96	4.968	23.98	or 11+10log(B) = 23.93	PASS
144	5720(U-NII 2C)	MCS8	9.20	9.08	12.33	17.094	23.98	or 11+10log(B) = 23.92	PASS
144	5720 (U-NII 3)	MCS8	4.30	4.23	7.43	5.532	30		PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	MCS0	14.44	27.798	23.98 or 11+10log(B) = 27.67	PASS
62	5310	MCS0	11.61	14.488	23.98 or 11+10log(B) = 27.27	PASS
102	5510	MCS0	8.85	7.674	23.98 or 11+10log(B) = 27.31	PASS
110	5550	MCS0	14.26	26.670	23.98 or 11+10log(B) = 27.99	PASS
134	5670	MCS0	13.04	20.138	23.98 or 11+10log(B) = 27.49	PASS
142	5710(U-NII 2C)	MCS0	8.60	7.25	23.98 or 11+10log(B) = 27.04	PASS
142	5710 (U-NII 3)	MCS0	0.21	1.05	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	MCS0	14.44	27.798	23.98 or 11+10log(B) = 27.92	PASS
62	5310	MCS0	11.60	14.455	23.98 or 11+10log(B) = 27.11	PASS
102	5510	MCS0	9.58	9.079	23.98 or 11+10log(B) = 27.23	PASS
110	5550	MCS0	14.34	27.165	23.98 or 11+10log(B) = 27.13	PASS
134	5670	MCS0	13.57	22.752	23.98 or 11+10log(B) = 27.28	PASS
142	5710(U-NII 2C)	MCS0	8.77	7.53	23.98 or 11+10log(B) = 27.10	PASS
142	5710 (U-NII 3)	MCS0	0.58	1.14	23.98	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
54	5270	MCS8	13.9	13.8	17.25	53.099	23.98 or 11+10log(B) = 27.67	PASS
62	5310	MCS8	8.3	8.29	11.68	14.708	23.98 or 11+10log(B) = 27.11	PASS
102	5510	MCS8	3.86	3.02	6.84	4.831	23.98 or 11+10log(B) = 27.23	PASS
110	5550	MCS8	13.4	13.9	17.01	50.201	23.98 or 11+10log(B) = 27.13	PASS
134	5670	MCS8	7.67	6.41	10.47	11.133	23.98 or 11+10log(B) = 27.28	PASS
142	5710(U-NII 2C)	MCS8	8.32	8.27	11.69	14.749	23.98 or 11+10log(B) = 27.04	PASS
142	5720 (U-NII 3)	MCS8	-0.07	0.08	3.30	2.138	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	MCS0	9.86	9.685	23.98 or 11+10log(B) = 30.04	PASS
106	5530	MCS0	9.60	9.123	23.98 or 11+10log(B) = 30.06	PASS
122	5610	MCS0	13.56	22.705	23.98 or 11+10log(B) = 31.00	PASS
138	5690(U-NII 2C)	MCS0	7.76	5.97	23.98 or 11+10log(B) = 30.04	PASS
138	5690 (U-NII 3)	MCS0	-3.96	0.40	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	MCS0	9.90	9.775	23.98 or 11+10log(B) = 30.17	PASS
106	5530	MCS0	10.14	10.330	23.98 or 11+10log(B) = 30.20	PASS
122	5610	MCS0	13.80	23.995	23.98 or 11+10log(B) = 30.27	PASS
138	5690(U-NII 2C)	MCS0	7.83	6.06	23.98 or 11+10log(B) = 30.15	PASS
138	5690 (U-NII 3)	MCS0	-3.12	0.49	23.98	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
58	5290	MCS0	9.61	8.63	12.93	19.629	23.98 or 11+10log(B) = 30.04	PASS
106	5530	MCS0	5.31	4.74	8.82	7.613	23.98 or 11+10log(B) = 30.06	PASS
122	5610	MCS0	12.4	13.3	16.63	46.007	23.98 or 11+10log(B) = 30.27	PASS
138	5690(U-NII 2C)	MCS0	6.74	7.45	10.92	12.362	23.98 or 11+10log(B) = 30.04	PASS
138	5690 (U-NII 3)	MCS0	-4.98	-3.49	-0.80	0.832	30	PASS

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10 功率密度之限制

10.1 適用標準

依據NCC低功率射頻電機技術規範4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 dBi天線方向增益的dBi總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

10.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。找出發射峰值並擴展於通帶內，設定解析頻寬為 1 MHz，視訊頻寬大於解析頻寬，掃描時間為頻率掃描範圍除以 1 MHz。

10.3 測試配置

同本報告 8.3 節傳導配置圖

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10.4 功率密度量測結果

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5260.00	6.86	0.17	7.03	11.00	-3.97
5300.00	6.99	0.17	7.16	11.00	-3.84
5320.00	4.57	0.17	4.74	11.00	-6.26
5500.00	-0.78	0.17	-0.61	11.00	-11.61
5580.00	6.69	0.17	6.86	11.00	-4.14
5700.00	-5.68	0.17	-5.51	11.00	-16.51
5720 (U-NII 2C)	1.55	0.17	1.72	11.00	-9.28
5720 (U-NII 3)	-2.60	0.17	-2.43	30.00	-32.43

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5260	6.66	0.17	6.83	11	-4.17
5300	6.17	0.17	6.34	11	-4.66
5320	4.18	0.17	4.35	11	-6.65
5500	-1.85	0.17	-1.68	11	-12.68
5580	6.23	0.17	6.40	11	-4.60
5700	-5.93	0.17	-5.76	11	-16.76
5720 (U-NII 2C)	1.81	0.17	1.98	11	-9.02
5720 (U-NII 3)	-2.12	0.17	-1.95	30	-31.95

POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5270	2.11	0.37	2.48	11	-8.52
5310	-2.14	0.37	-1.77	11	-12.77
5510	-8.13	0.37	-7.76	11	-18.76
5550	2.85	0.37	3.22	11	-7.78
5670	-4.49	0.37	-4.12	11	-15.12
5710 (U-NII 2C)	-2.11	0.37	-1.73	11	-12.73
5710 (U-NII 3)	-8.03	0.37	-7.66	30	-37.66

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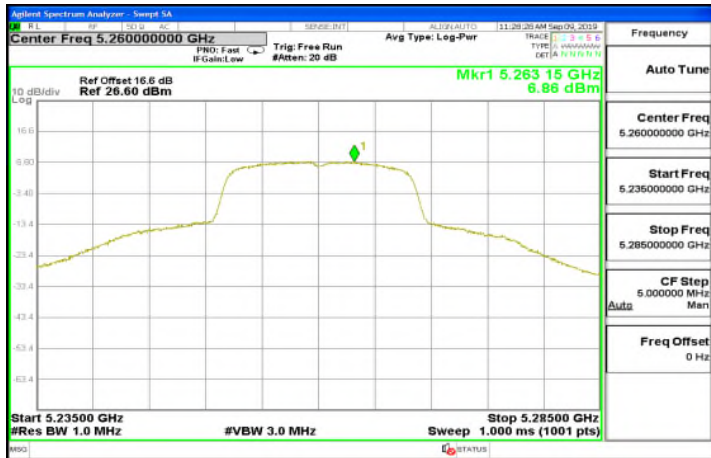
POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5290	-6.48	0.77	-5.71	11	-16.71
5530	-9.50	0.77	-8.73	11	-19.73
5610	-0.33	0.77	0.44	11	-10.56
5690 (U-NII 2C)	-6.38	0.77	-5.61	11	-16.61
5690 (U-NII 3)	-14.25	0.77	-13.48	30	-43.48

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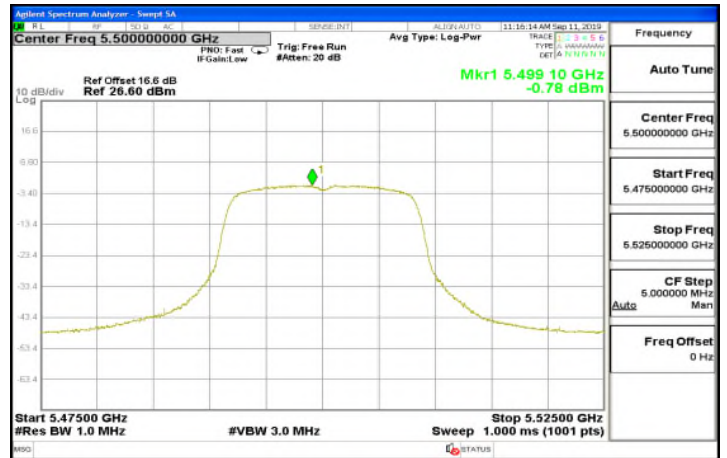
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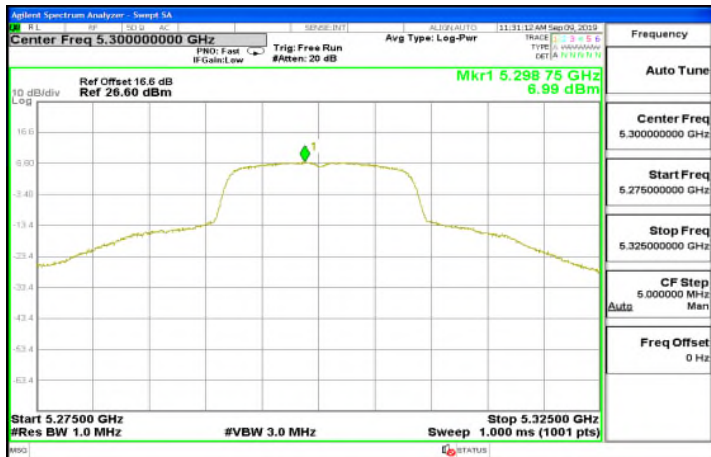
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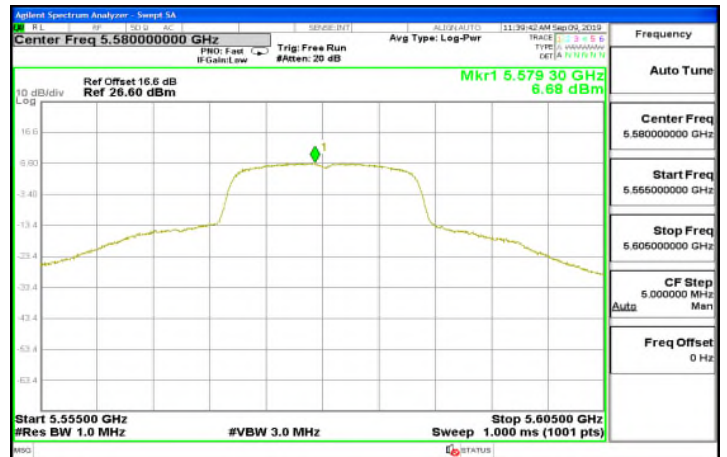
802.11a_20MHz_5500MHz



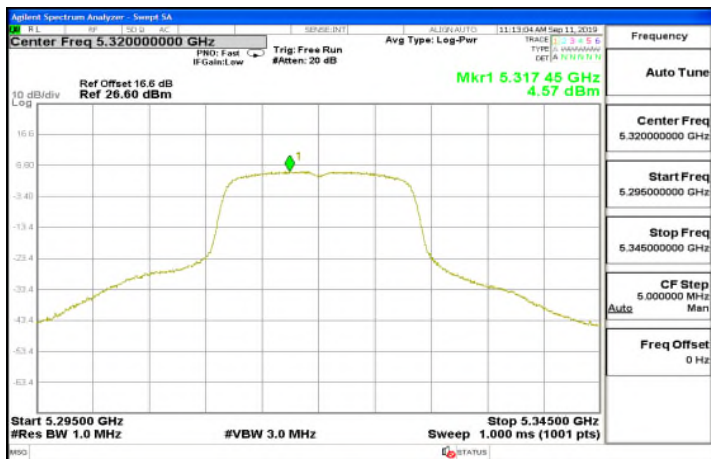
802.11a_20MHz_5300MHz



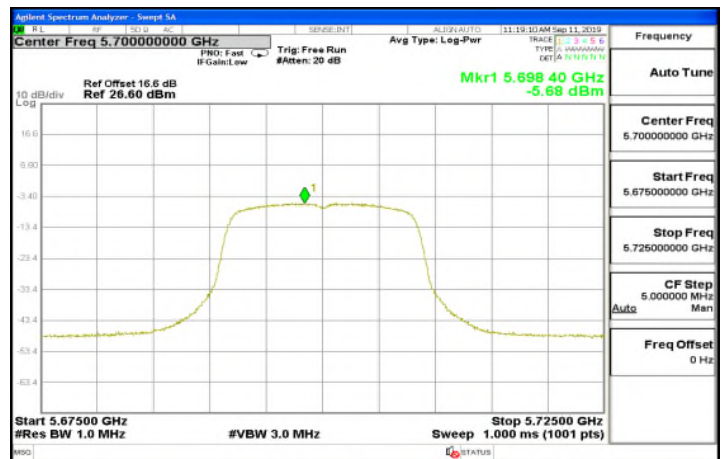
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802.11a_20MHz_5320MHz



802.11a_20MHz_5700MHz

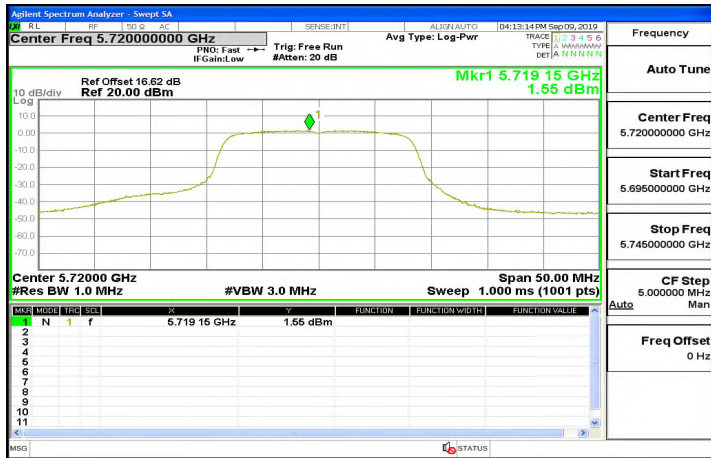


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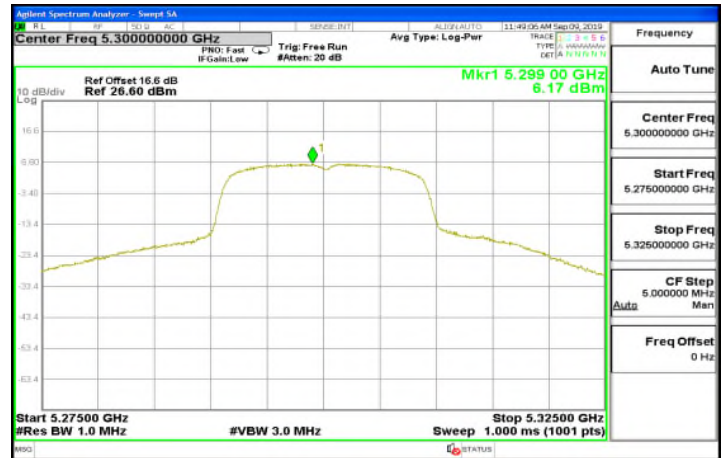
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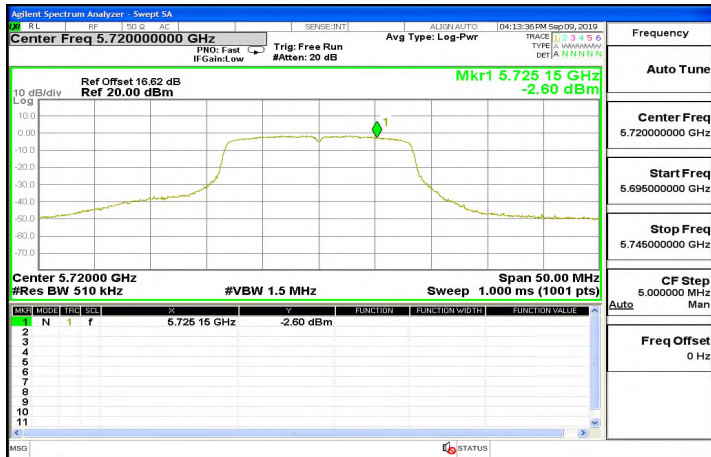
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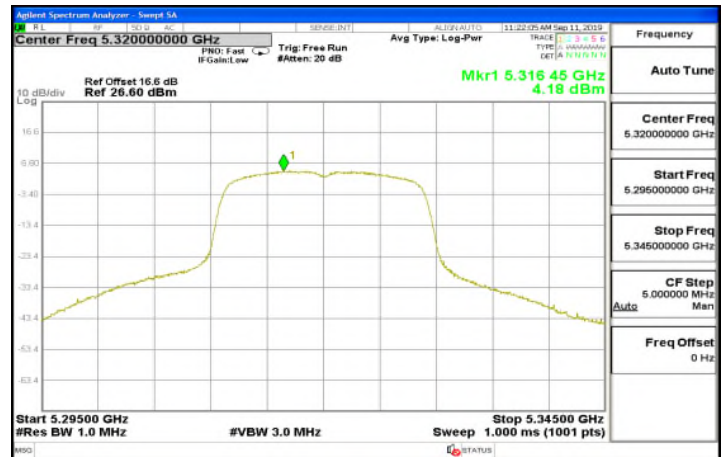
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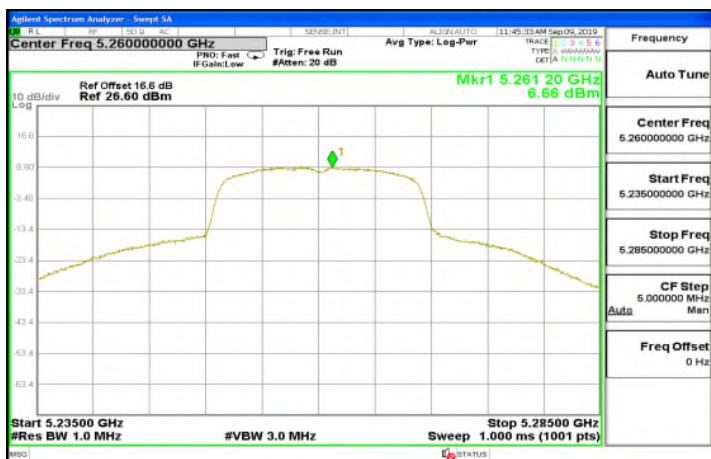
802.11a_20MHz_5720MHz_UNII 3



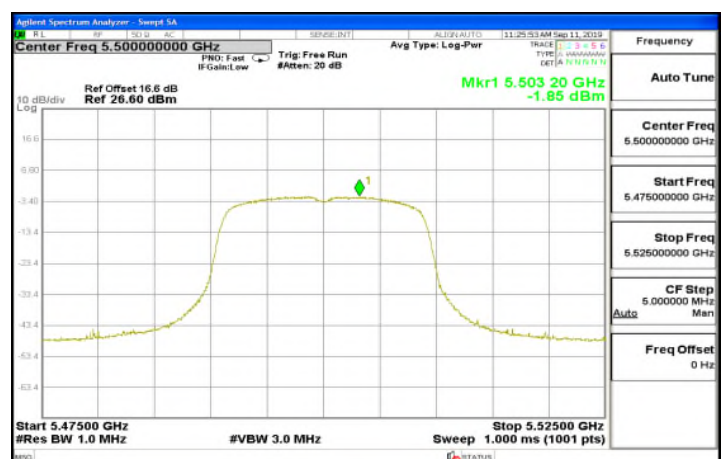
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802.11n_20MHz_5260MHz



802.11n_20MHz_5500MHz

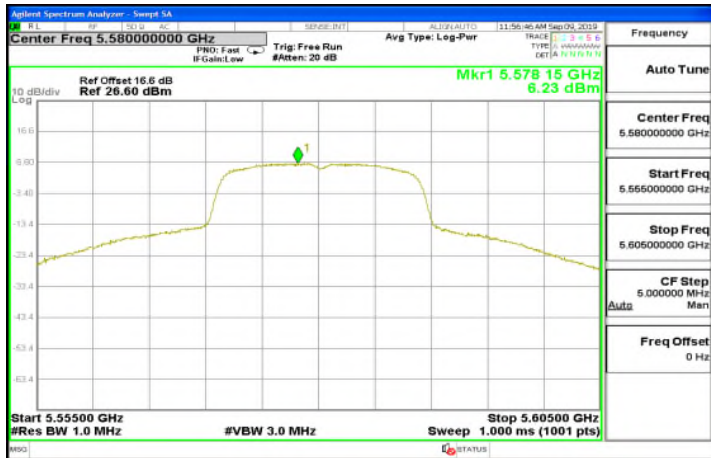


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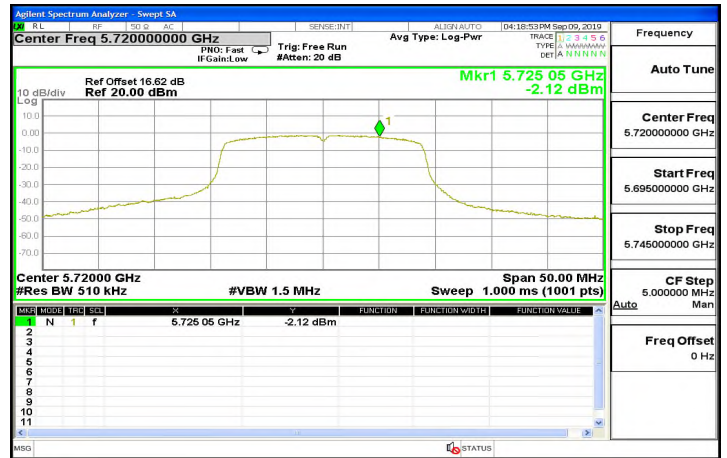
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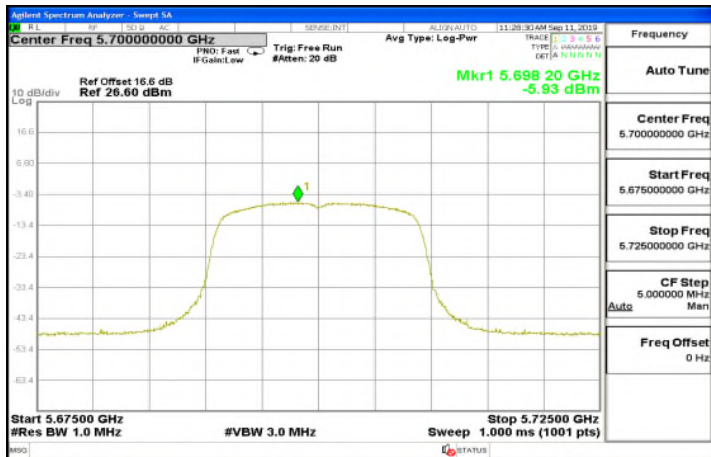
802.11n_20MHz_5580MHz



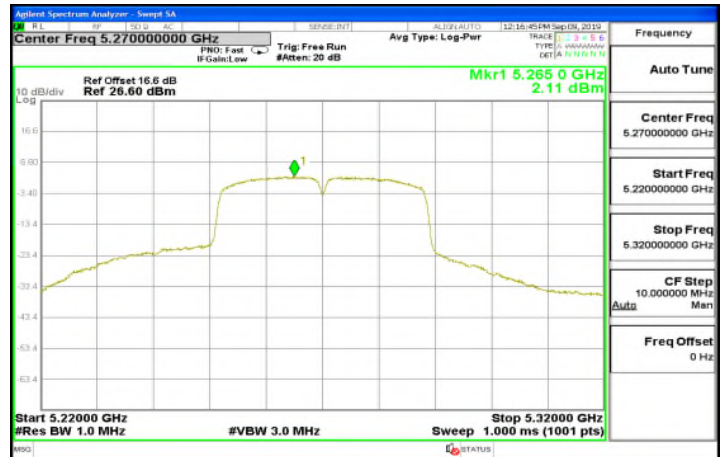
802.11n_20MHz_5720MHz_UNII 3



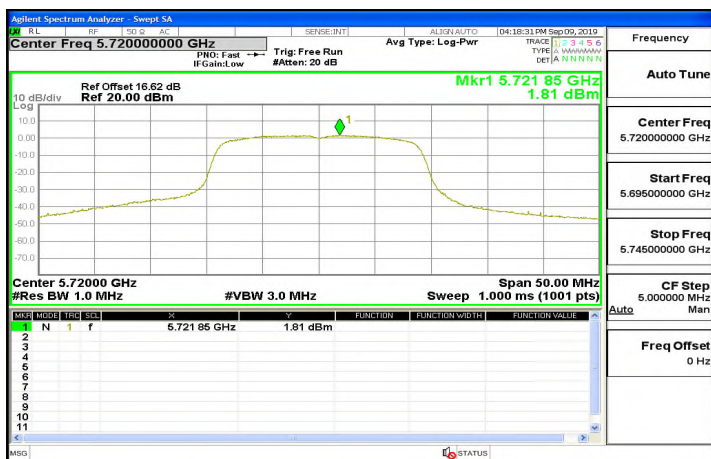
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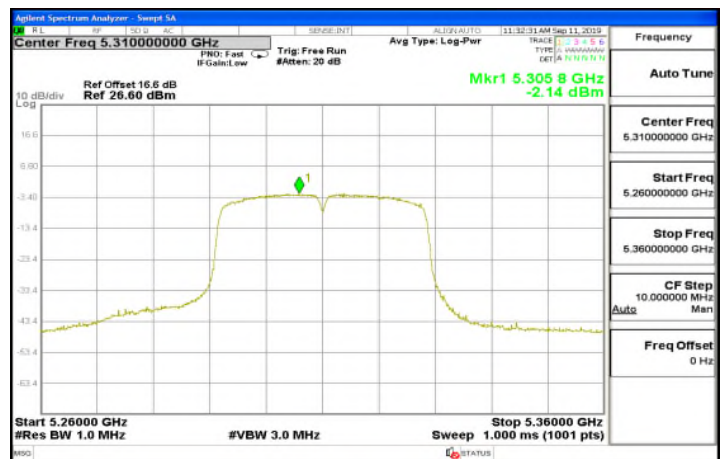
802.11n_40MHz_5270MHz



802.11n_20MHz_5720MHz_UNII 2C



802.11n_40MHz_5310MHz

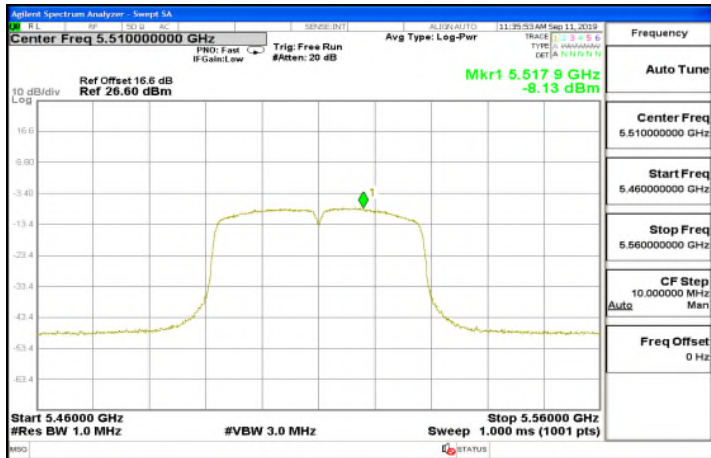


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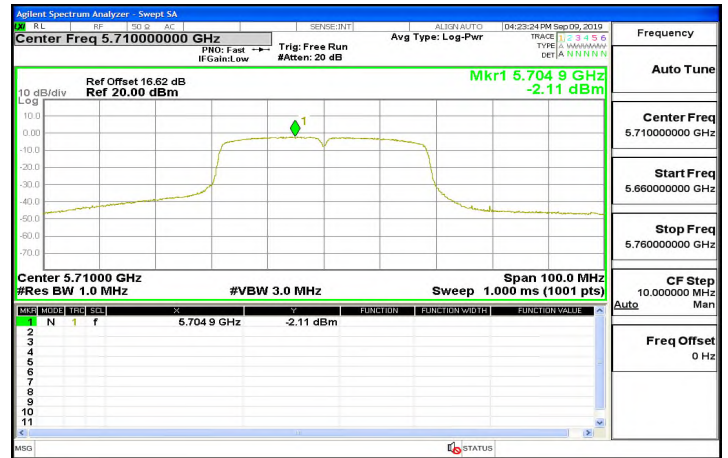
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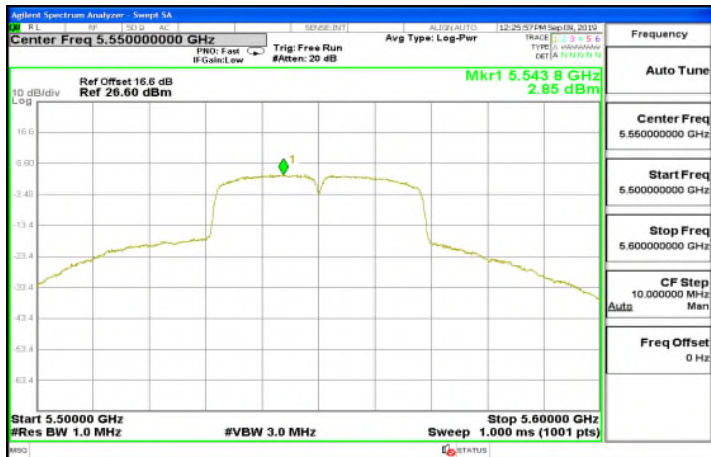
802.11n_40MHz_5510MHz



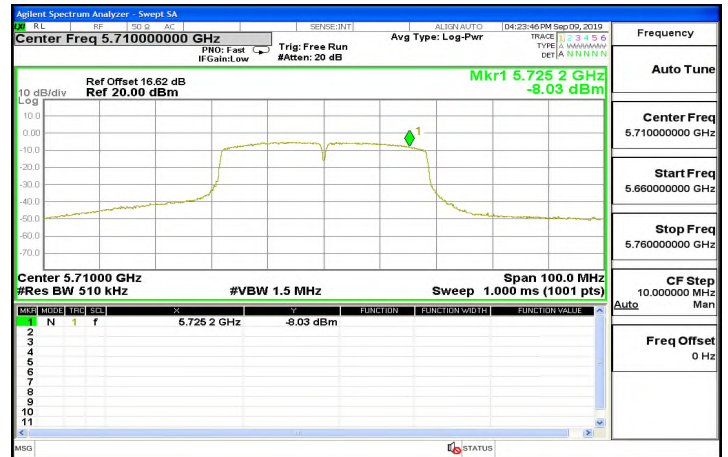
802.11n_40MHz_5710MHz_UNII 2C



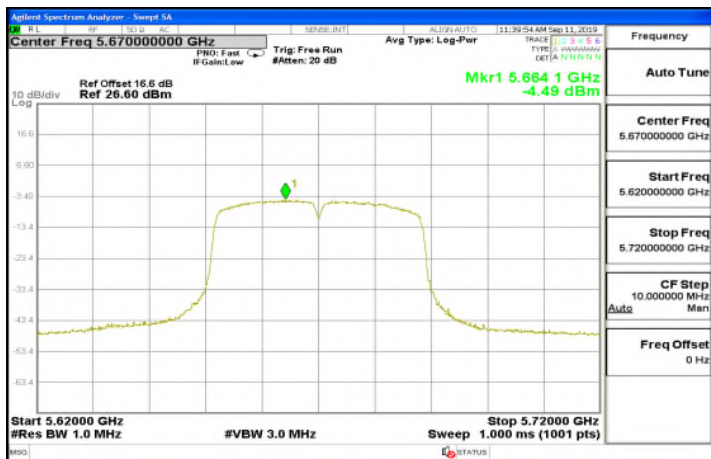
802.11n_40MHz_5550MHz



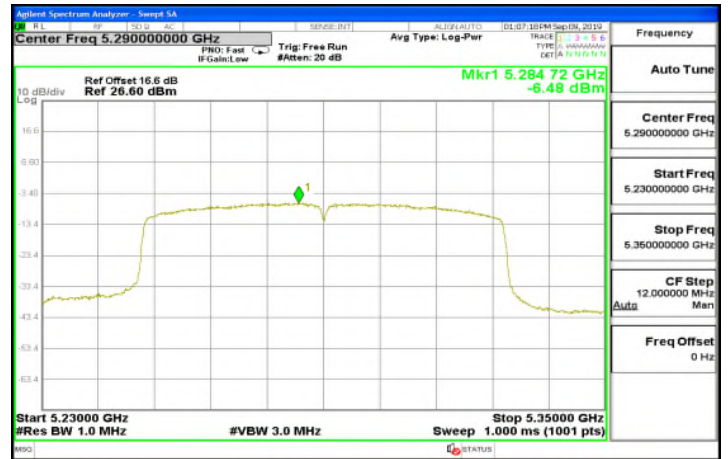
802.11n_40MHz_5710MHz_UNII 3



802.11n_40MHz_5670MHz



802.11ac_80MHz_5290MHz

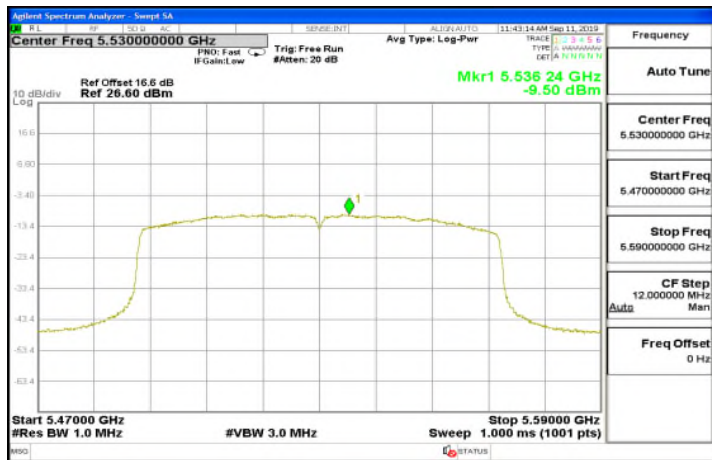


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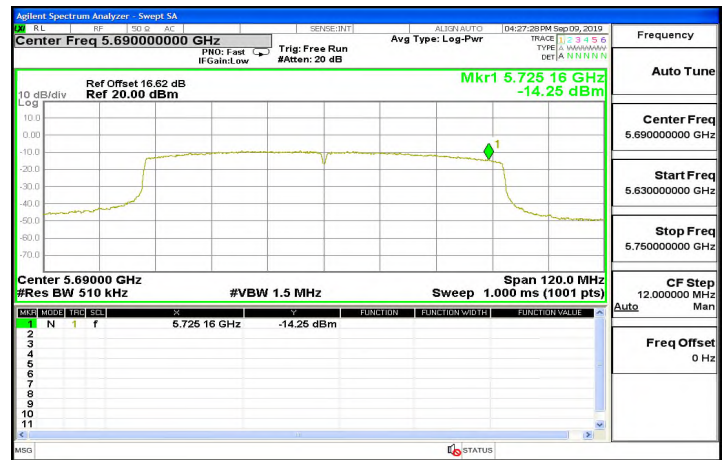
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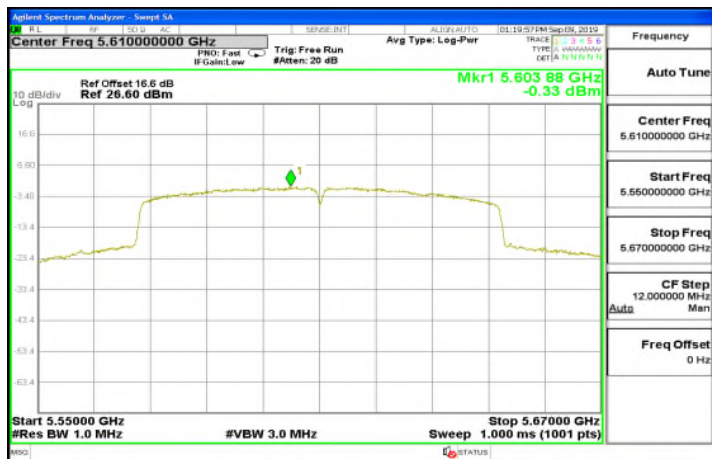
802.11ac_80MHz_5530MHz



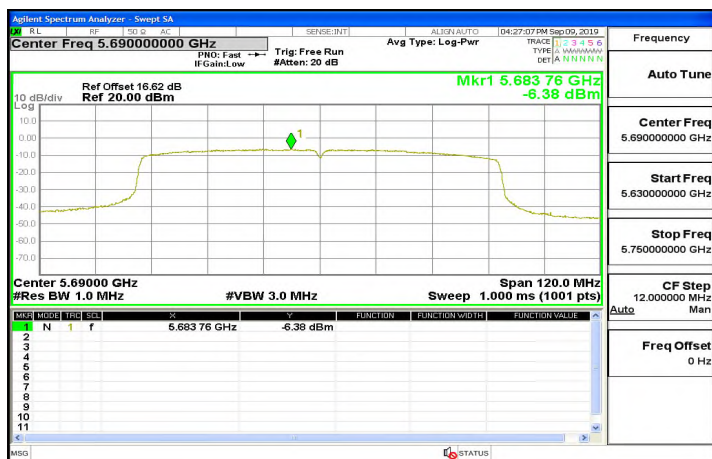
802.11ac_80MHz_5690MHz_UNII 3



802.11ac_80MHz_5610MHz



802.11ac_80MHz_5690MHz_UNII 2C



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~ End of Report ~

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