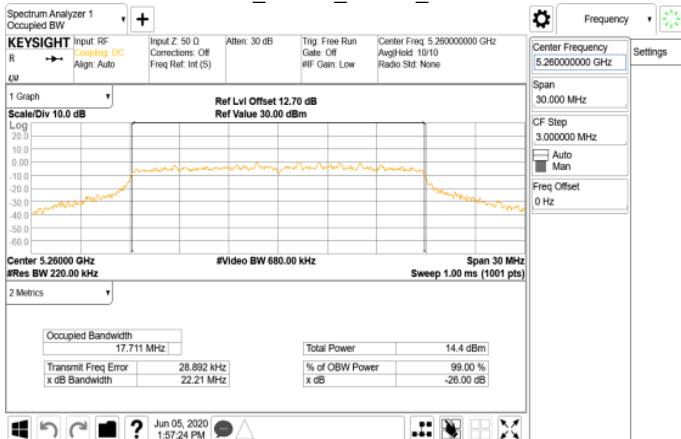
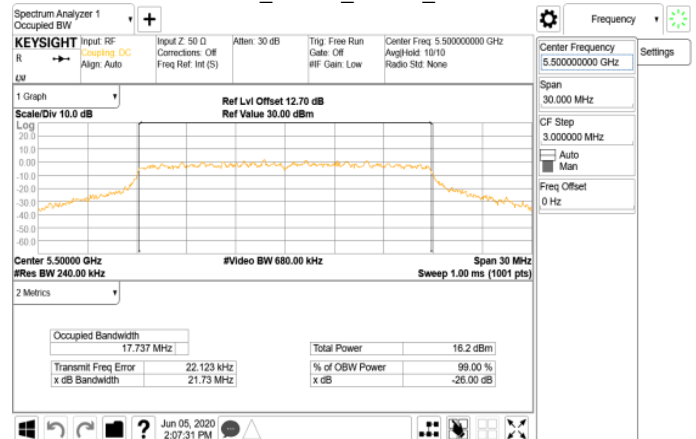


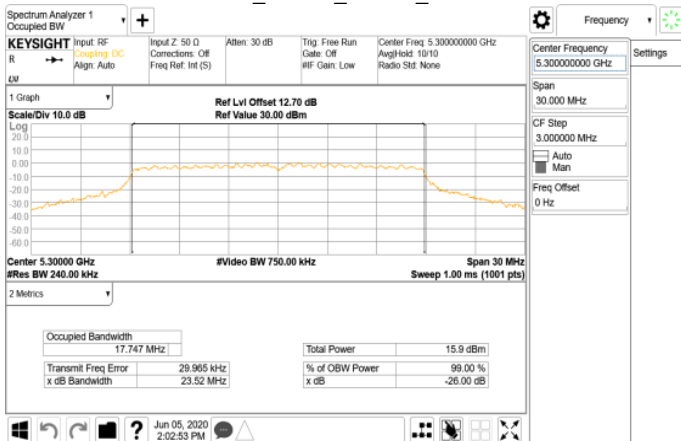
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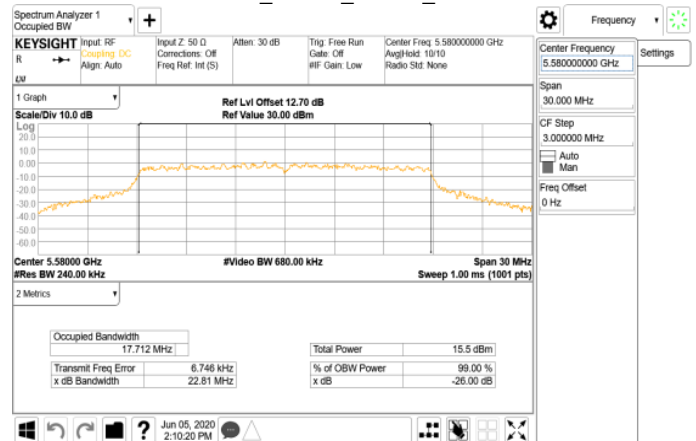
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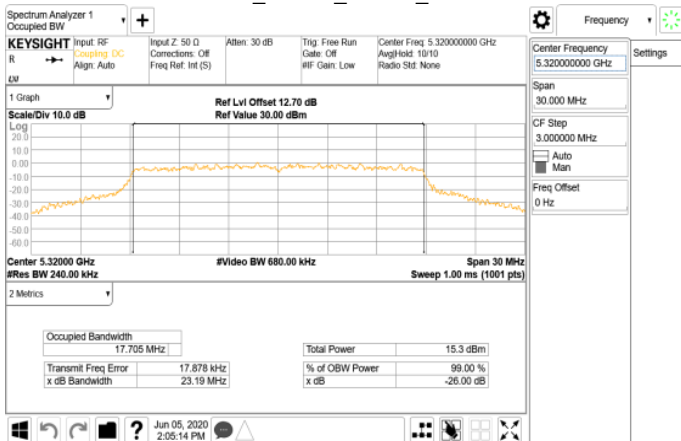
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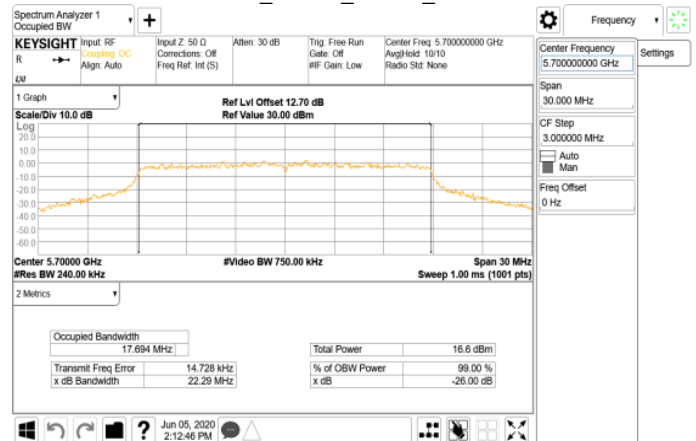
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz



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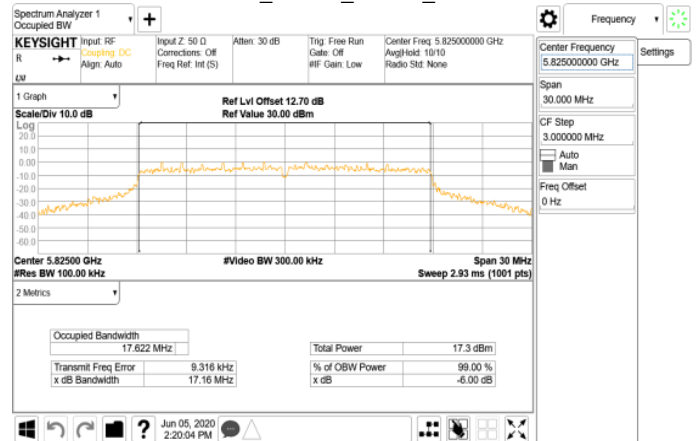
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802.11n_20MHz_Chain1_5720MHz



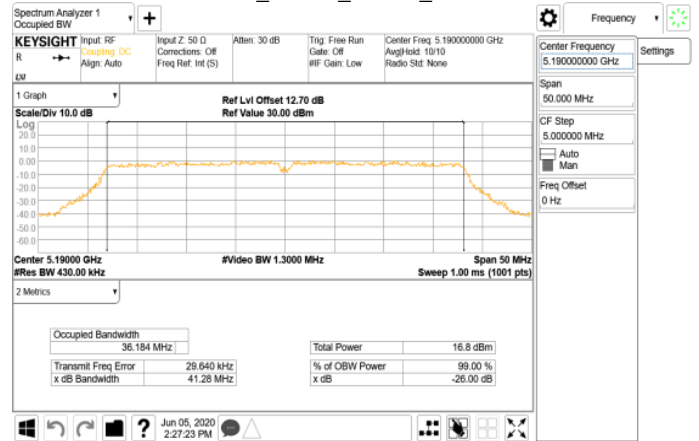
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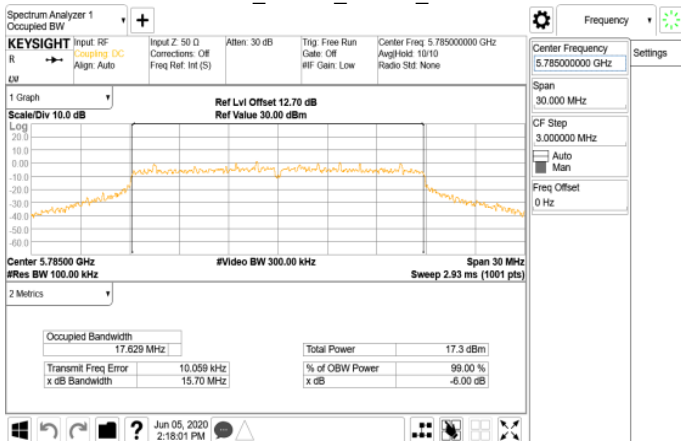
802.11n_20MHz_Chain1_5745MHz



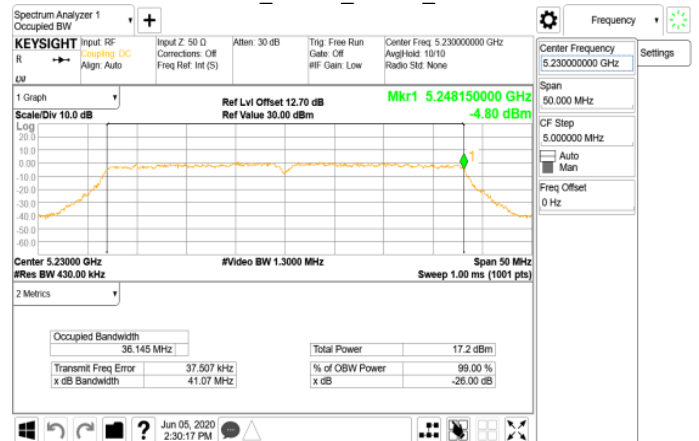
802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz

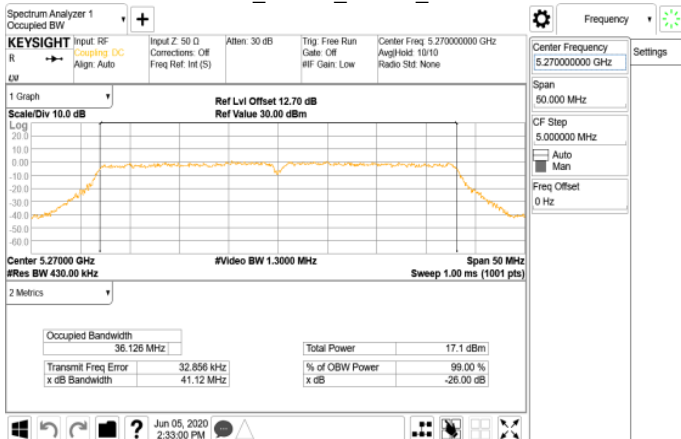


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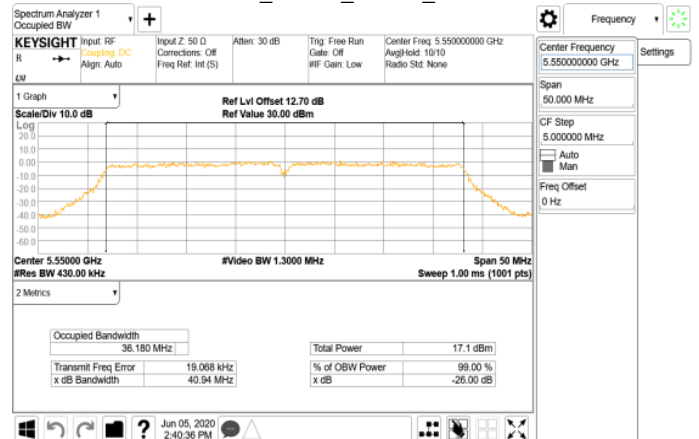
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802.11n_40MHz_Chain0_5270MHz



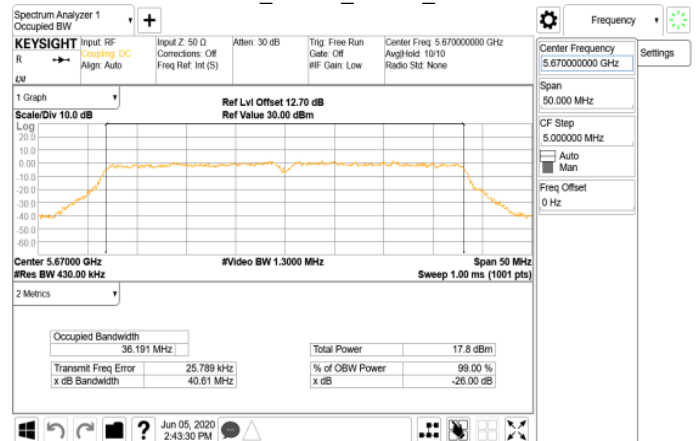
802.11n_40MHz_Chain0_5550MHz



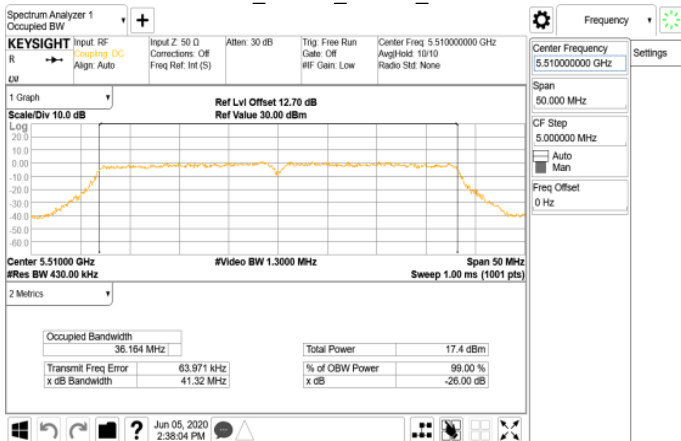
802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz

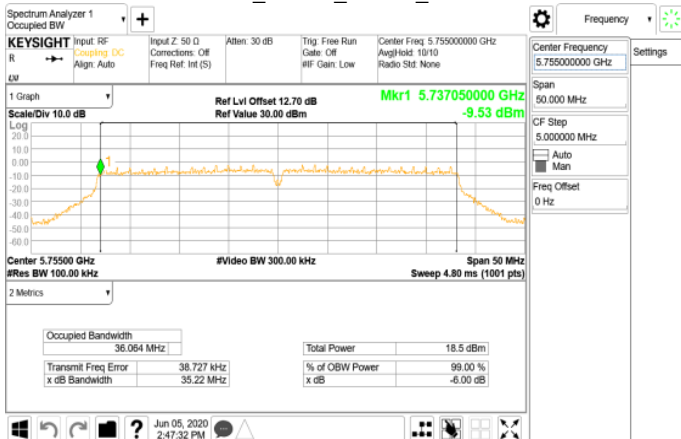


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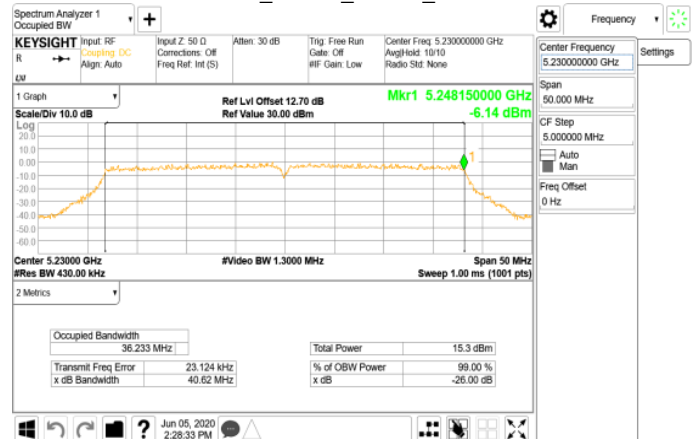
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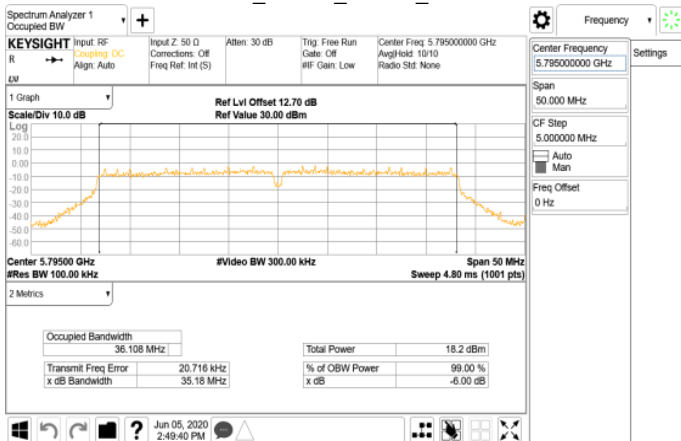
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



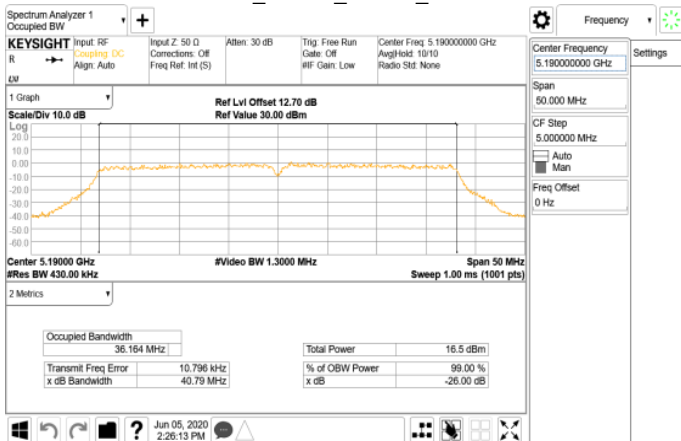
802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz

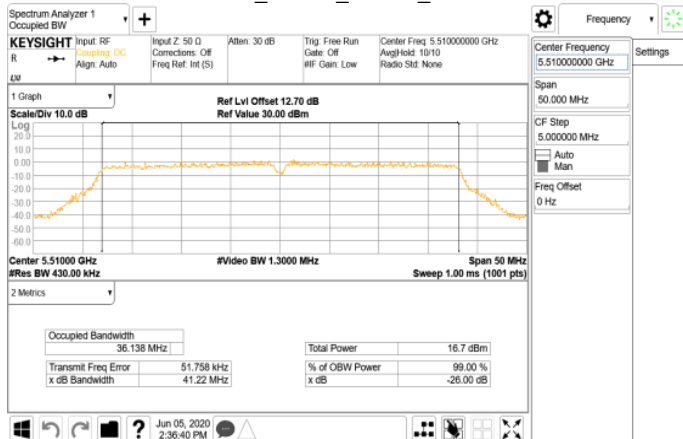


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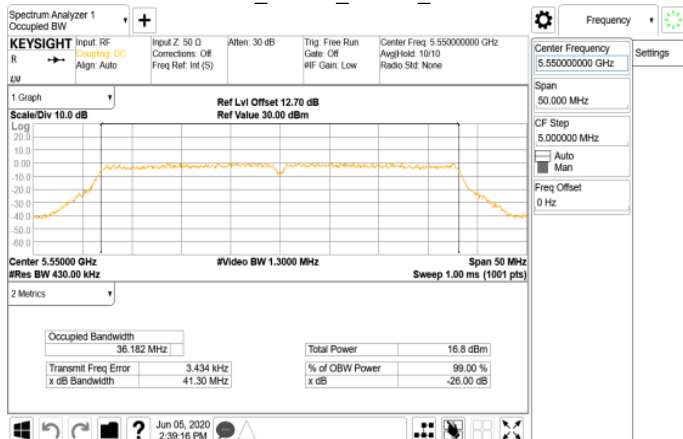
802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



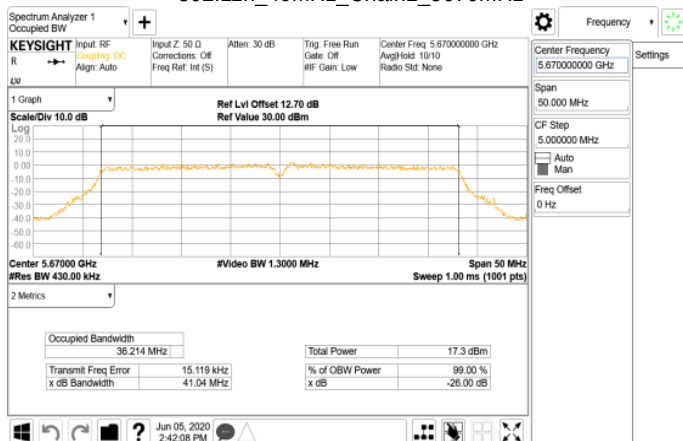
802.11n_40MHz_Chain1_5550MHz



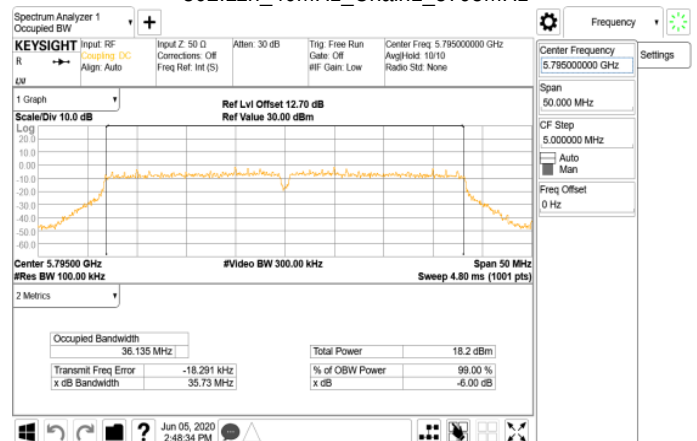
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz

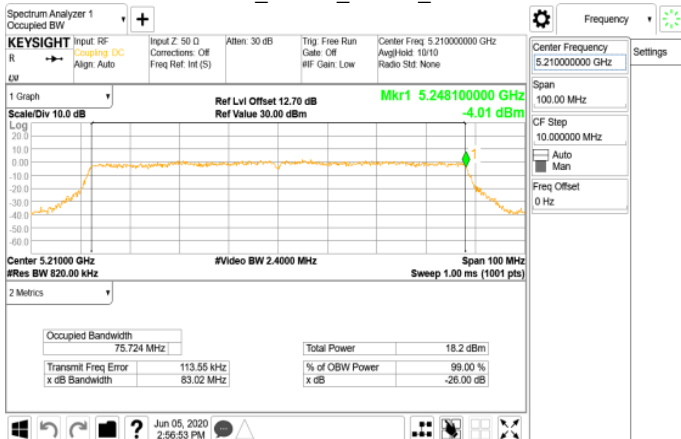


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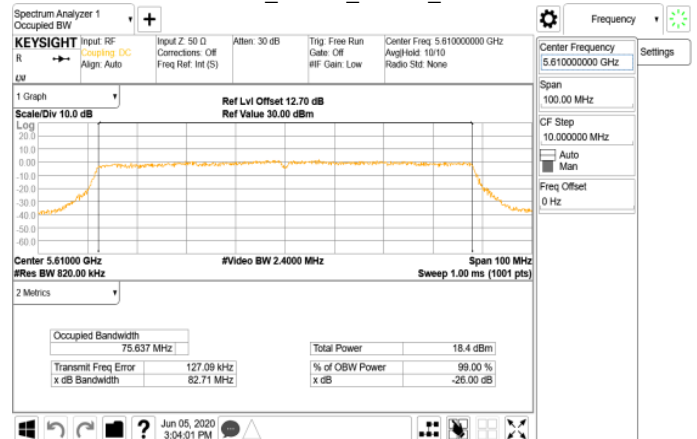
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802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



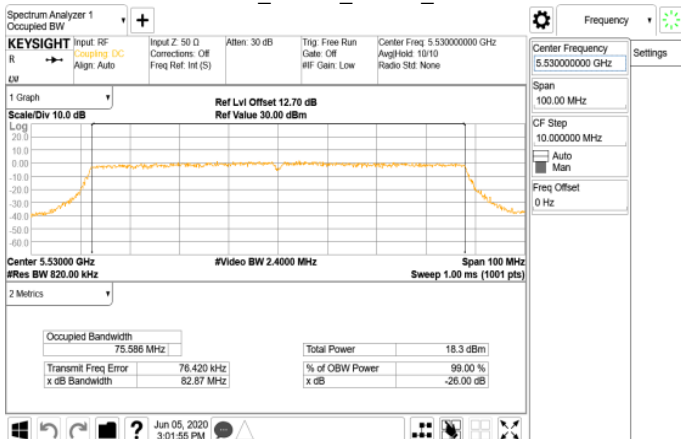
802.11ac_80MHz_Chain0_5290MHz



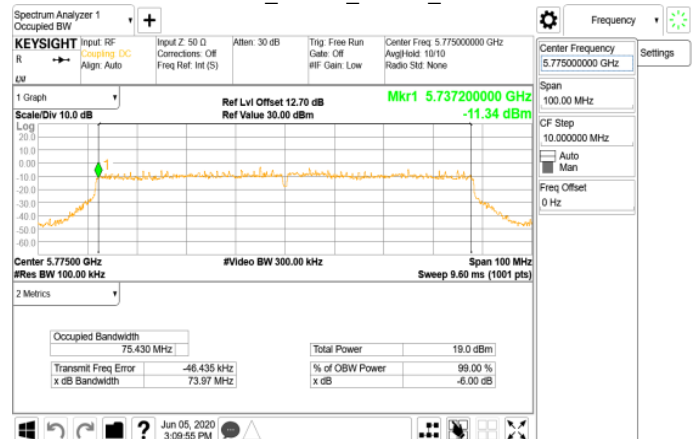
802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz

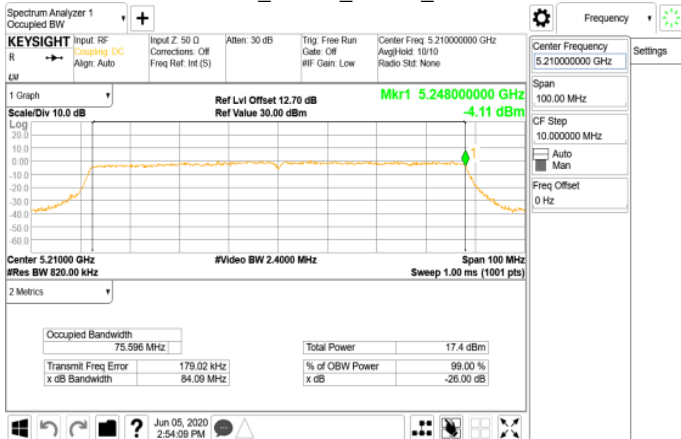


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802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



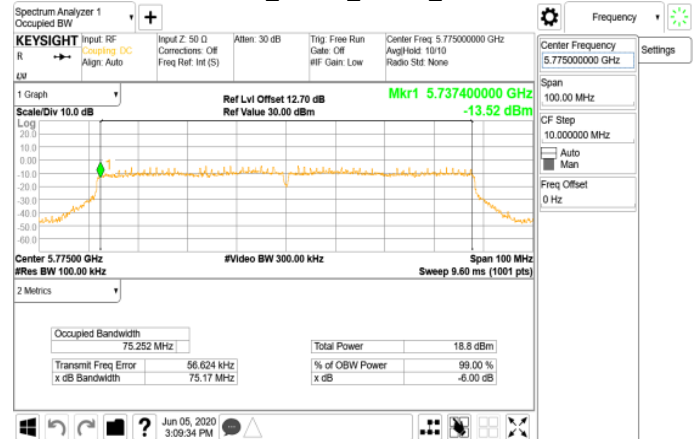
802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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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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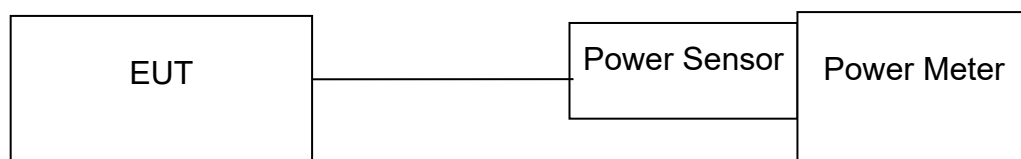
使用頻率於5.725 GHz~5.850 GHz 頻段

- (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_2Tx

CH	Freq. (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH0	CH1			
36	5180	6	12.9	12.51	15.84	23.98	PASS
44	5220	6	12.72	12.52	15.75	23.98	PASS
48	5240	6	12.67	12.41	15.68	23.98	PASS
52	5260	6	12.58	12.34	15.60	23.98 or $11+10\log(B) = 24.40$	PASS
60	5300	6	12.65	12.55	15.73	23.98 or $11+10\log(B) = 24.34$	PASS
64	5320	6	12.45	12.37	15.54	23.98 or $11+10\log(B) = 24.51$	PASS
100	5500	6	12.7	12.77	15.87	23.98 or $11+10\log(B) = 24.43$	PASS
116	5580	6	12.48	12.4	15.57	23.98 or $11+10\log(B) = 24.37$	PASS
140	5700	6	12.84	12.7	15.90	23.98 or $11+10\log(B) = 24.25$	PASS
144	5720(U-NII 2C)	6	11.30	11.10	14.30	23.98 or $11+10\log(B) = 24.42$	PASS
144	5720 (U-NII 3)	6	11.35	6.84	10.26	30	PASS
149	5745	6	12.83	12.4	15.75	30	PASS
157	5785	6	12.81	12.68	15.88	30	PASS
165	5825	6	12.71	12.69	15.83	30	PASS

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802.11n_HT20_MIMO

CH	Freq. (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH0	CH1			
36	5180	mcs 8	12.35	11.88	15.38	23.98	PASS
44	5220	mcs 8	12.39	11.45	15.20	23.98	PASS
48	5240	mcs 8	12.45	11.84	15.41	23.98	PASS
52	5260	mcs 8	12.13	12.11	15.37	23.98 or $11+10\log(B) = 24.47$	PASS
60	5300	mcs 8	12.12	11.83	15.23	23.98 or $11+10\log(B) = 24.34$	PASS
64	5320	mcs 8	12.12	11.79	15.21	23.98 or $11+10\log(B) = 24.65$	PASS
100	5500	mcs 8	12.22	11.73	15.24	23.98 or $11+10\log(B) = 24.34$	PASS
116	5580	mcs 8	12.41	11.48	15.22	23.98 or $11+10\log(B) = 24.51$	PASS
140	5700	mcs 8	12.39	11.87	15.39	23.98 or $11+10\log(B) = 24.48$	PASS
144	5720(U-NII 2C)	mcs 8	10.99	10.10	13.84	23.98 or $11+10\log(B) = 24.46$	PASS
144	5720 (U-NII 3)	mcs 8	6.77	6.02	9.62	30	PASS
149	5745	mcs 8	12.32	11.87	15.36	30	PASS
157	5785	mcs 8	12.32	11.97	15.40	30	PASS
165	5825	mcs 8	12.45	11.86	15.42	30	PASS

802.11n_HT40_MIMO

CH	Freq. (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH0	CH1			
38	5190	mcs 8	12.24	11.99	15.35	23.98	PASS
46	5230	mcs 8	12.28	12.2	15.47	23.98	PASS
54	5270	mcs 8	12.43	11.92	15.42	23.98 or $11+10\log(B) = 27.14$	PASS
62	5310	mcs 8	12.38	12.09	15.47	23.98 or $11+10\log(B) = 27.13$	PASS
102	5510	mcs 8	12.38	11.68	15.28	23.98 or $11+10\log(B) = 27.15$	PASS
110	5550	mcs 8	12.29	11.9	15.33	23.98 or $11+10\log(B) = 27.12$	PASS
134	5670	mcs 8	12.08	12.1	15.32	23.98 or $11+10\log(B) = 27.09$	PASS
142	5710(U-NII 2C)	mcs 8	11.54	11.36	14.67	23.98 or $11+10\log(B) = 27.09$	PASS
142	5710 (U-NII 3)	mcs 8	3.47	3.15	6.60	30	PASS
151	5755	mcs 8	12.08	11.92	15.23	30	PASS
159	5795	mcs 8	12.11	11.86	15.22	30	PASS

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802.11ac_VHT80_MIMO

CH	Freq. (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH0	CH1			
42	5210	MCS0	12.02	11.47	15.23	23.98	PASS
58	5290	MCS0	12.15	11.58	15.35	23.98 or $11+10\log(B) = 30.13$	PASS
106	5530	MCS0	12.3	11.07	15.21	23.98 or $11+10\log(B) = 30.17$	PASS
122	5610	MCS0	12.34	12.29	15.79	23.98 or $11+10\log(B) = 30.15$	PASS
138	5690(U-NII 2C)	MCS0	11.75	11.51	15.10	23.98 or $11+10\log(B) = 30.14$	PASS
138	5690 (U-NII 3)	MCS0	1.09	0.51	4.44	30	PASS
155	5775	MCS0	12.24	11.99	15.60	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 $11\text{dBm}+10\log B$ (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)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	4.526	0.12	4.65	11.00	-6.35
5220	3.662	0.12	3.78	11.00	-7.22
5240	4.092	0.12	4.21	11.00	-6.79
5260	4.095	0.12	4.22	11.00	-6.78
5300	3.507	0.12	3.63	11.00	-7.37
5320	3.458	0.12	3.58	11.00	-7.42
5500	4.568	0.12	4.69	11.00	-6.31
5580	5.042	0.12	5.16	11.00	-5.84
5700	6.211	0.12	6.33	11.00	-4.67
5720 (U-NII 2C)	5.835	0.12	5.96	11.00	-5.04
5720 (U-NII 3)	1.384	0.12	1.51	30.00	-28.49
5745	2.286	0.12	2.41	30.00	-27.59
5785	1.991	0.12	2.11	30.00	-27.89
5825	1.695	0.12	1.82	30.00	-28.18

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.609	0.24	3.85	11.00	-7.15
5220	1.062	0.24	1.31	11.00	-9.69
5240	1.267	0.24	1.51	11.00	-9.49
5260	1.133	0.24	1.38	11.00	-9.62
5300	1.296	0.24	1.54	11.00	-9.46
5320	1.848	0.24	2.09	11.00	-8.91
5500	2.583	0.24	2.83	11.00	-8.17
5580	2.236	0.24	2.48	11.00	-8.52
5700	3.687	0.24	3.93	11.00	-7.07
5720 (U-NII 2C)	4.556	0.24	4.80	11.00	-6.20
5720 (U-NII 3)	0.760	0.24	1.00	30.00	-29.00
5745	0.650	0.24	0.89	30.00	-29.11
5785	0.903	0.24	1.15	30.00	-28.85
5825	0.416	0.24	0.66	30.00	-29.34

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-1.877	0.22	-1.65	11.00	-12.65
5230	-2.047	0.22	-1.82	11.00	-12.82
5270	-1.748	0.22	-1.53	11.00	-12.53
5310	-1.123	0.22	-0.90	11.00	-11.90
5510	-0.128	0.22	0.09	11.00	-10.91
5550	-0.519	0.22	-0.30	11.00	-11.30
5670	0.413	0.22	0.64	11.00	-10.36
5710 (U-NII 2C)	1.931	0.22	2.15	11.00	-8.85
5710 (U-NII 3)	-2.336	0.22	-2.11	30.00	-32.11
5755	-1.869	0.22	-1.65	30.00	-31.65
5795	-1.432	0.22	-1.21	30.00	-31.21

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-4.368	0.47	-3.90	11.00	-14.90
5290	-4.212	0.47	-3.74	11.00	-14.74
5530	-2.998	0.47	-2.53	11.00	-13.53
5610	-3.072	0.47	-2.60	11.00	-13.60
5690 (U-NII 2C)	-0.341	0.47	0.13	11.00	-10.87
5690 (U-NII 3)	-5.875	0.47	-5.41	30.00	-35.41
5775	-4.611	0.47	-4.14	30.00	-34.14

Note:

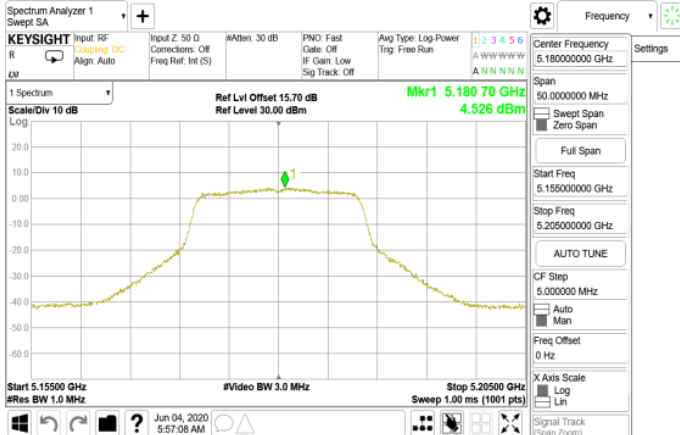
offset 12.70 dB
offset 15.70 dB

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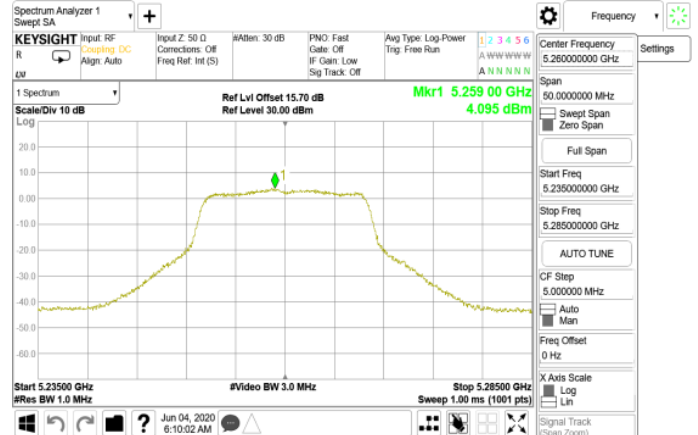
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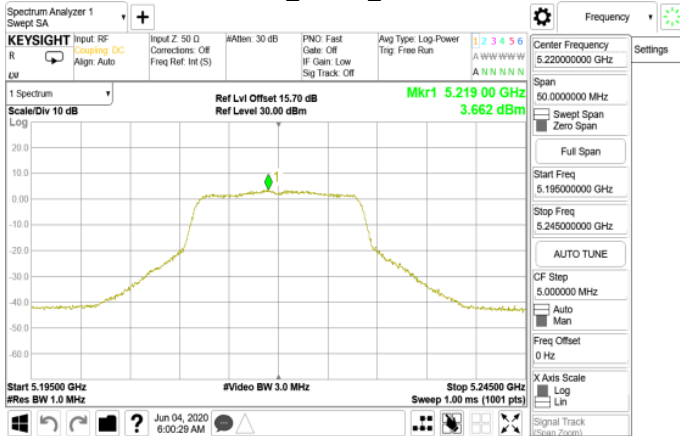
802.11a_20MHz_5180MHz



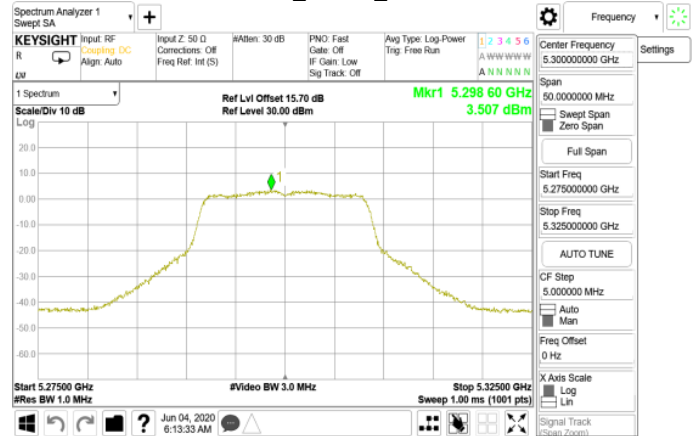
802.11a_20MHz_5260MHz



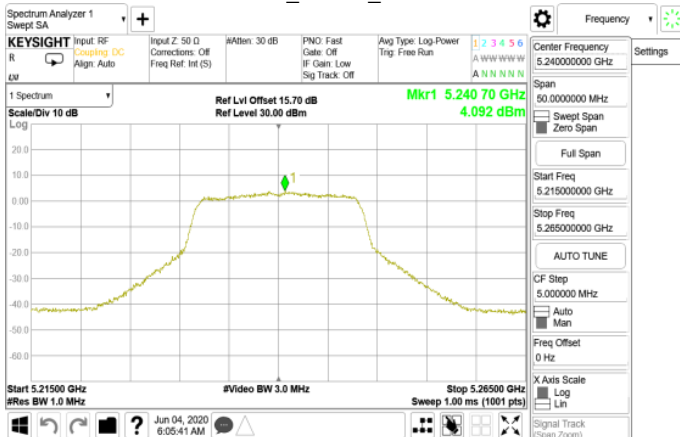
802.11a_20MHz_5220MHz



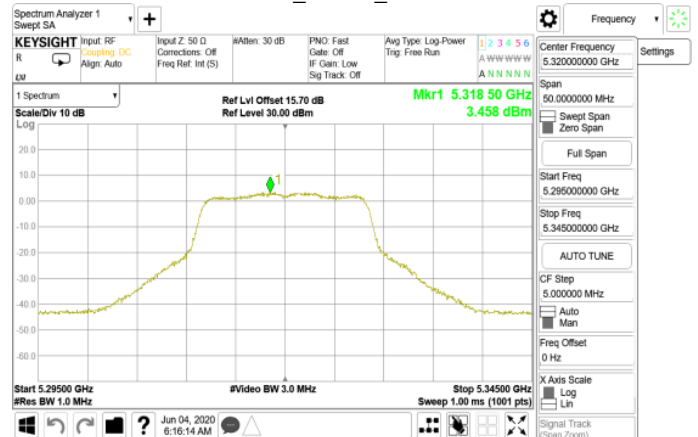
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz

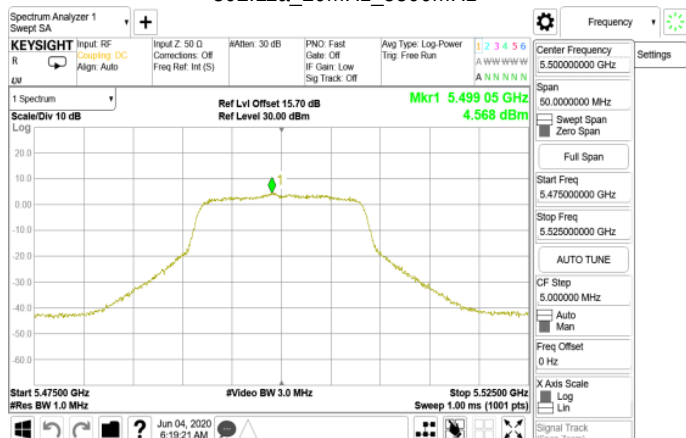


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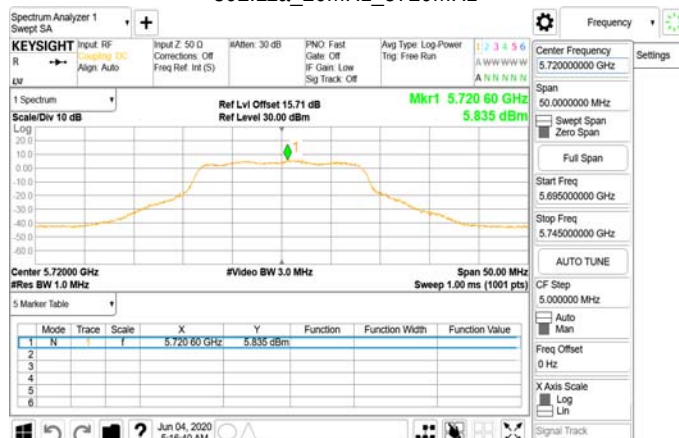
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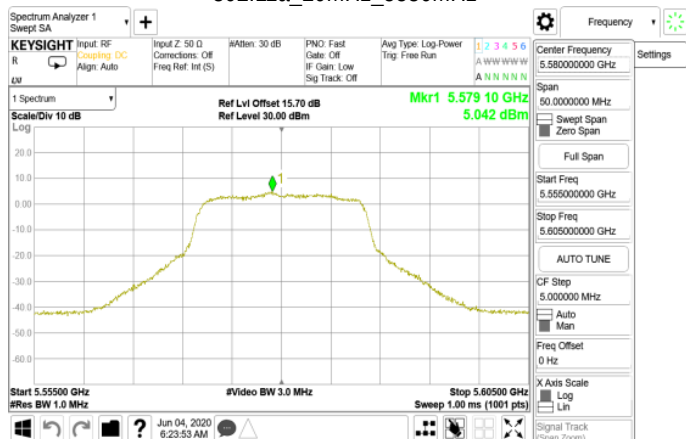
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802.11a_20MHz_5720MHz



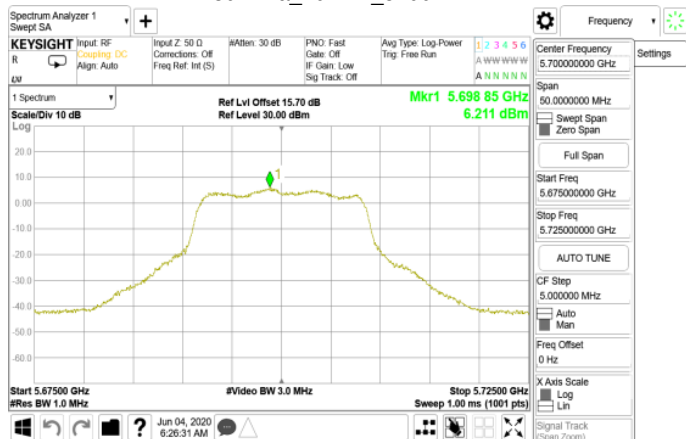
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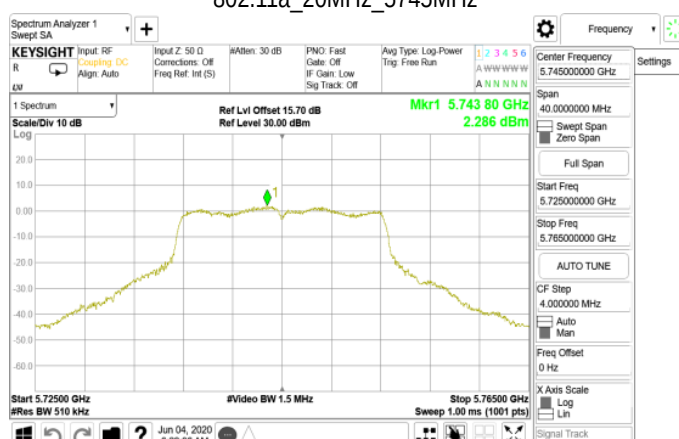
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802.11a_20MHz_5700MHz



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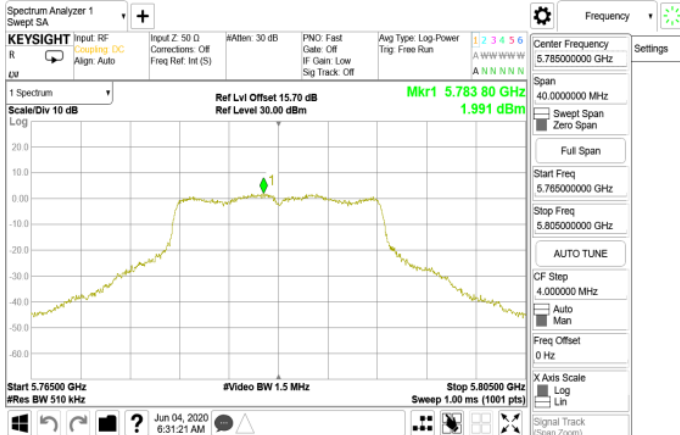


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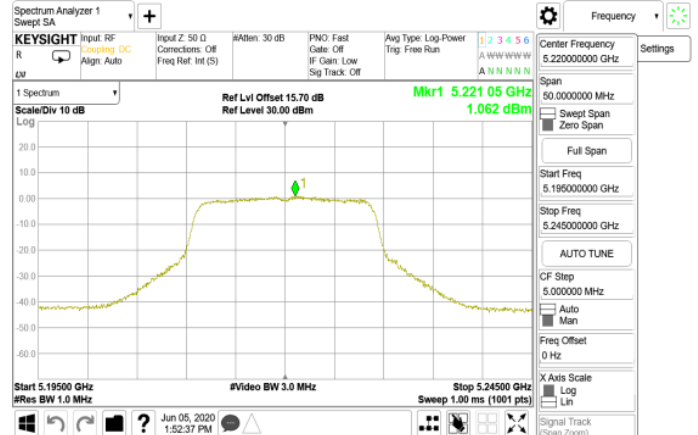
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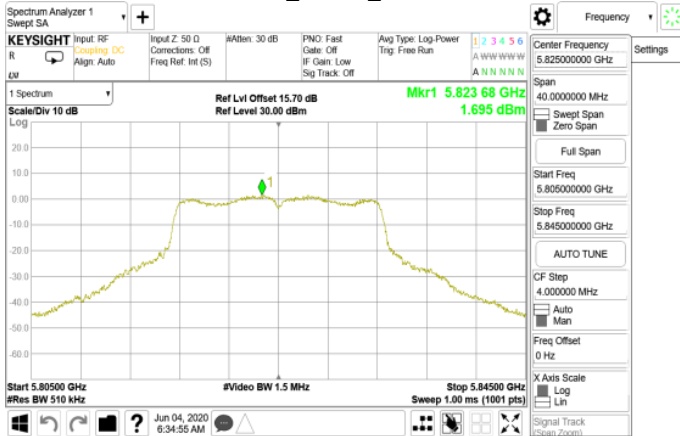
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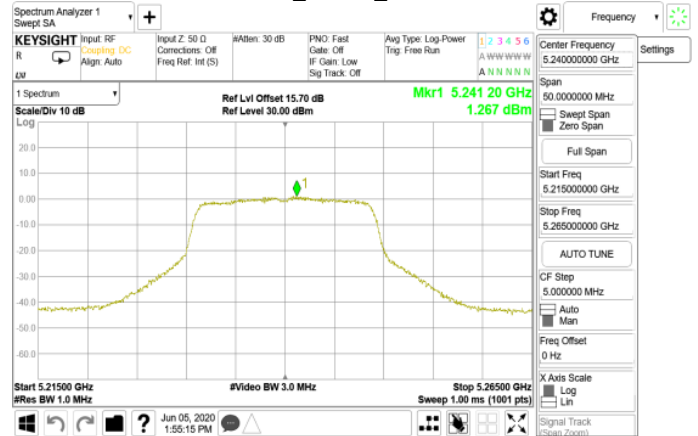
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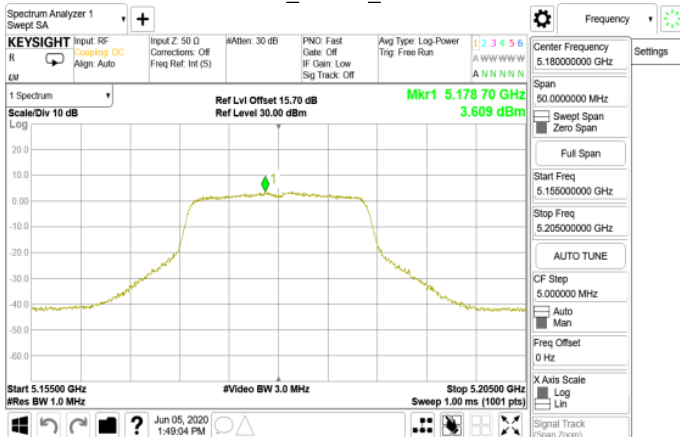
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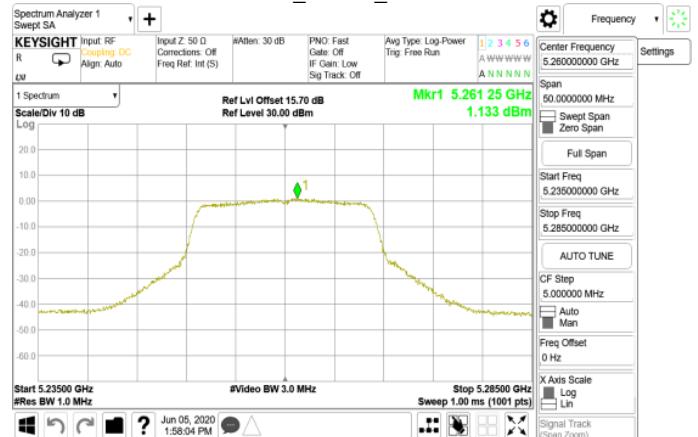
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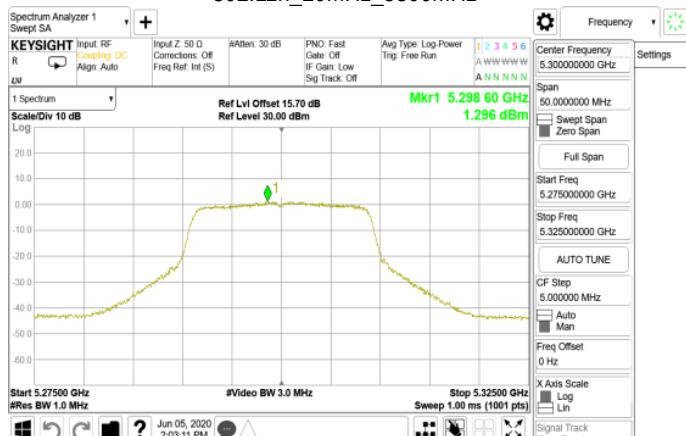


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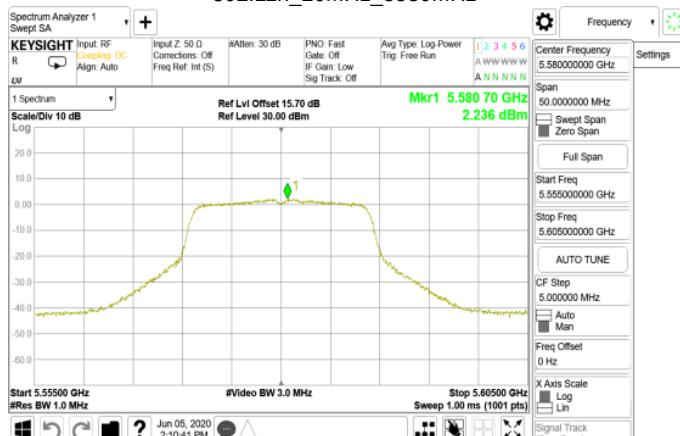
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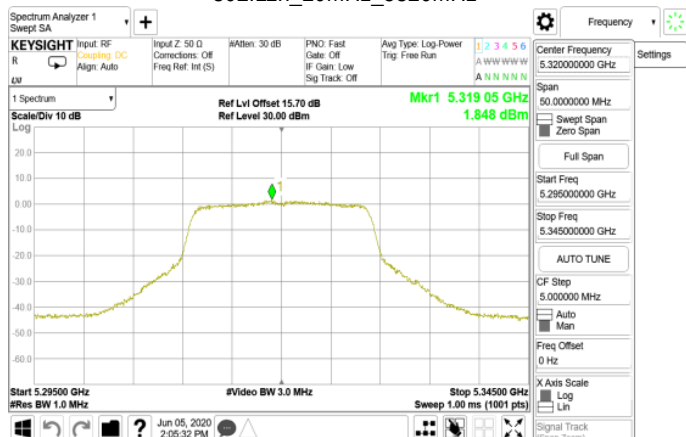
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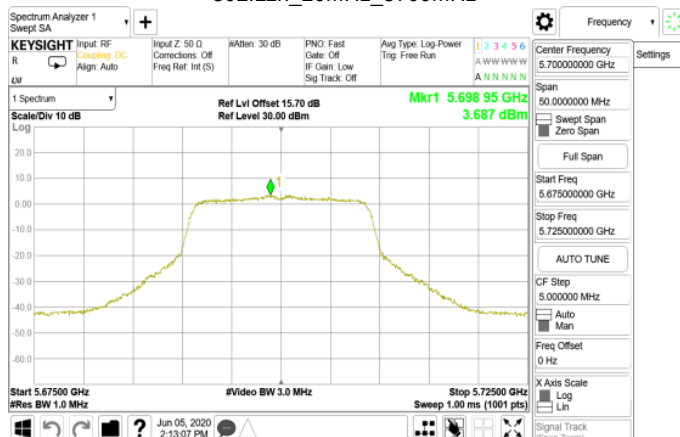
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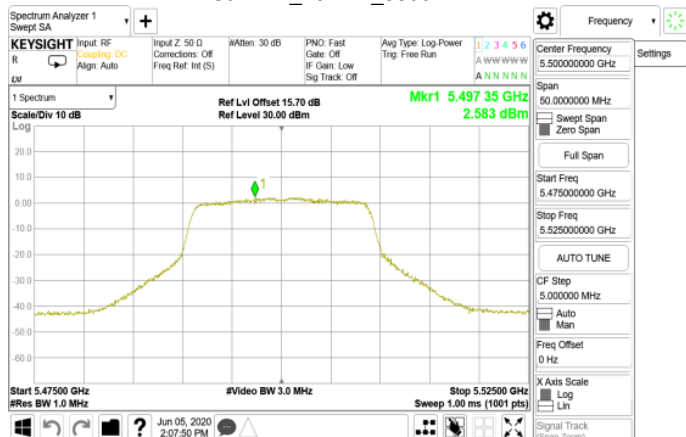
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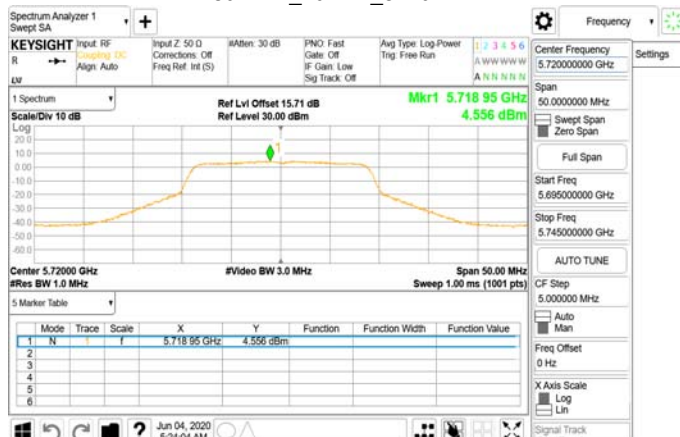
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802.11n_20MHz_5500MHz



802.11n_20MHz_5720MHz

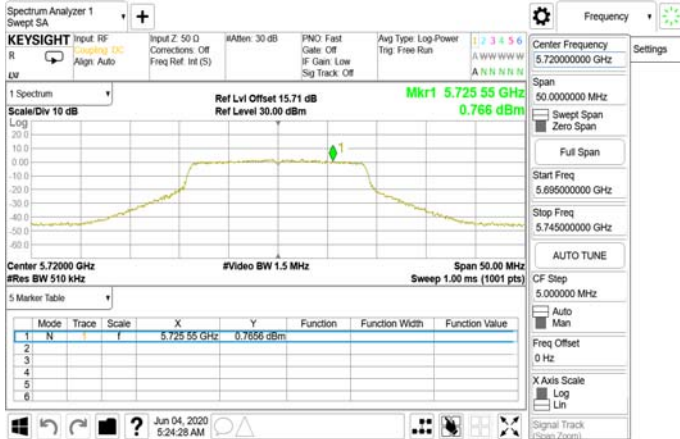


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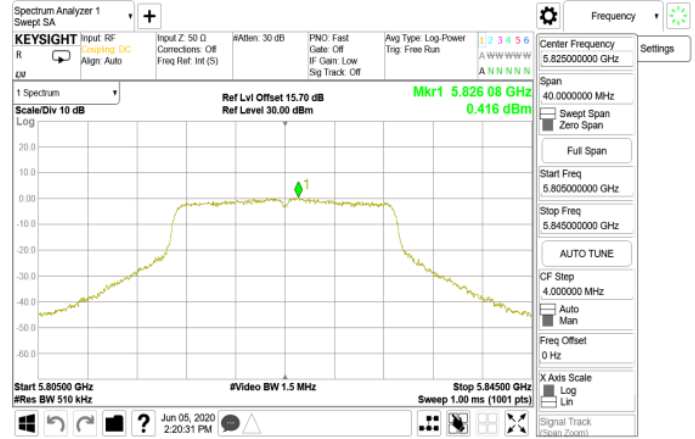
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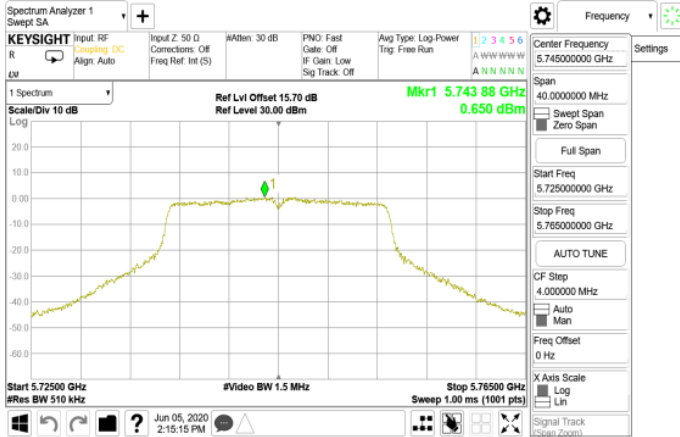
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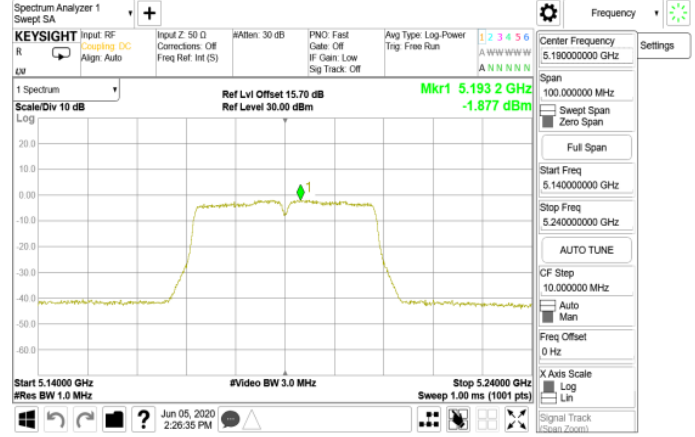
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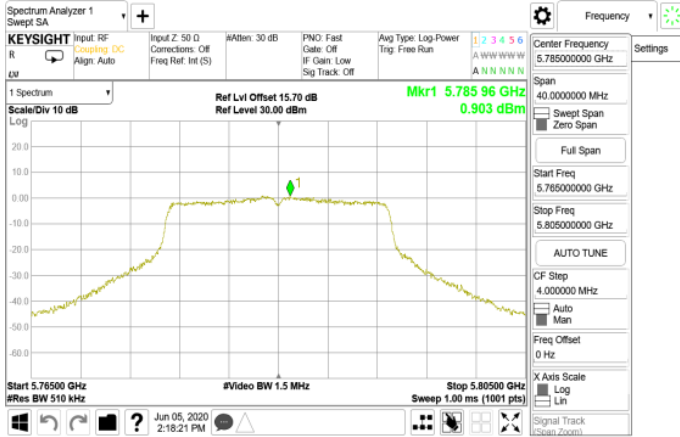
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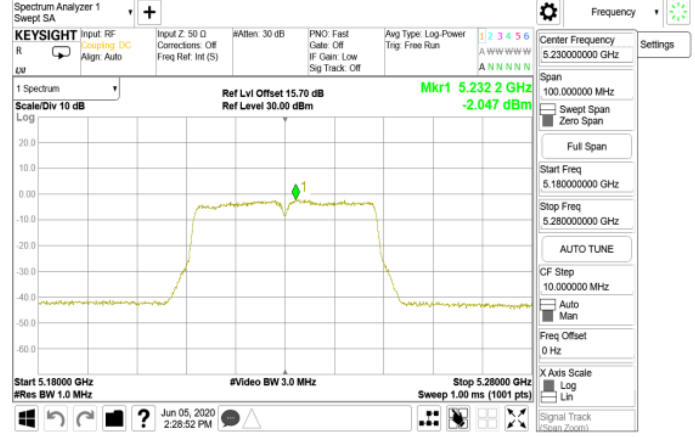
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802.11n_20MHz_5785MHz



802.11n_40MHz_5230MHz

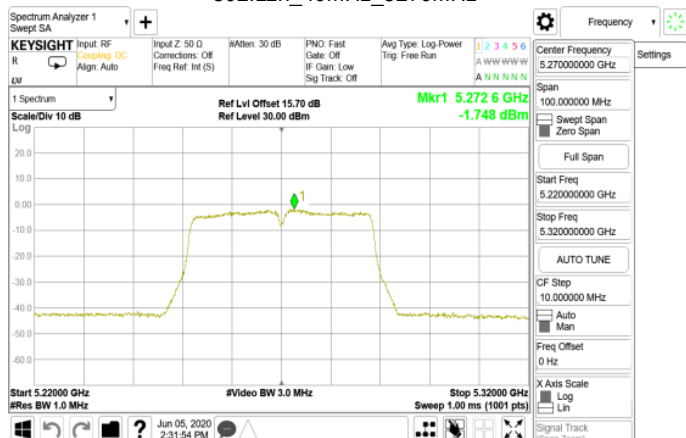


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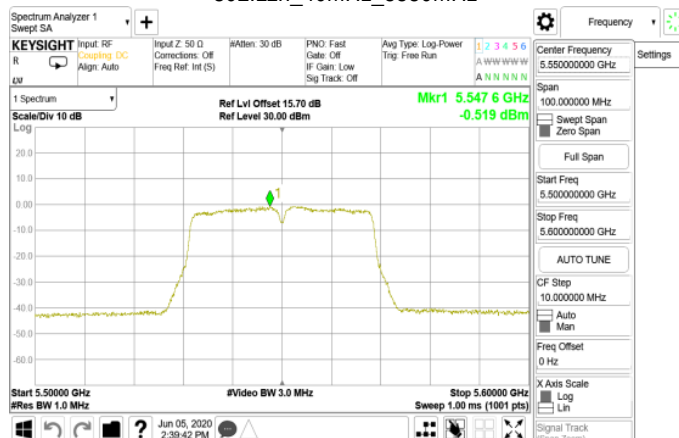
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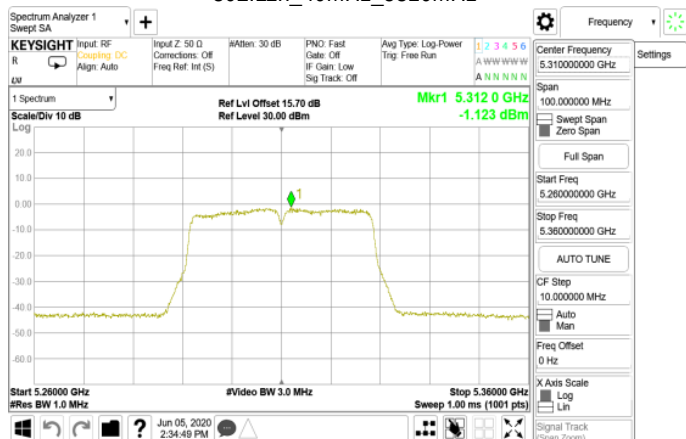
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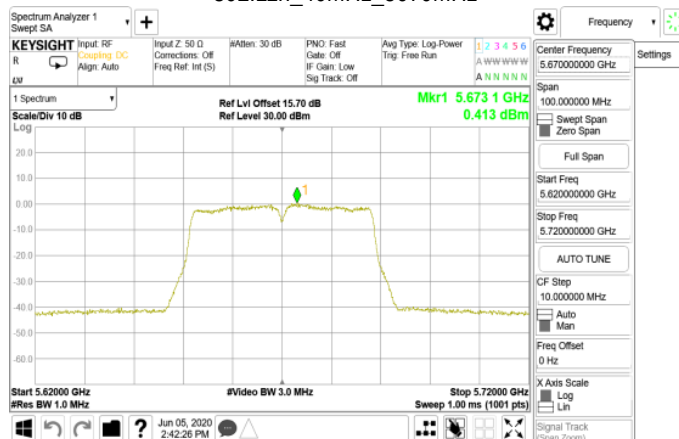
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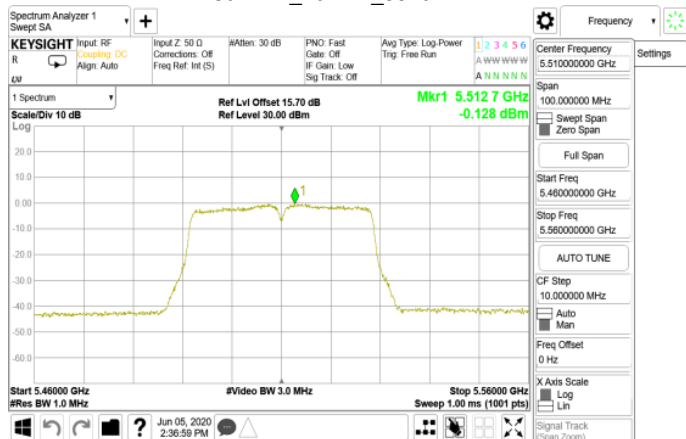
802.11n_40MHz_5310MHz



802.11n_40MHz_5670MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5710MHz



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