Figure Channel 12: (Chain A)

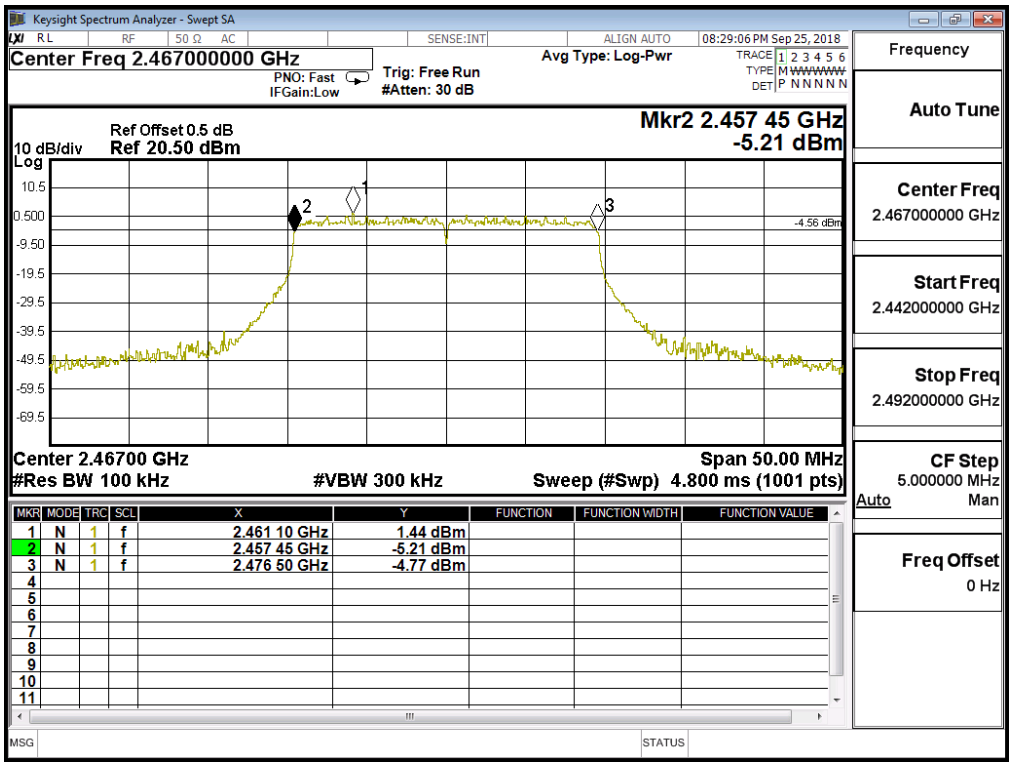


Figure Channel 12: (Chain B)

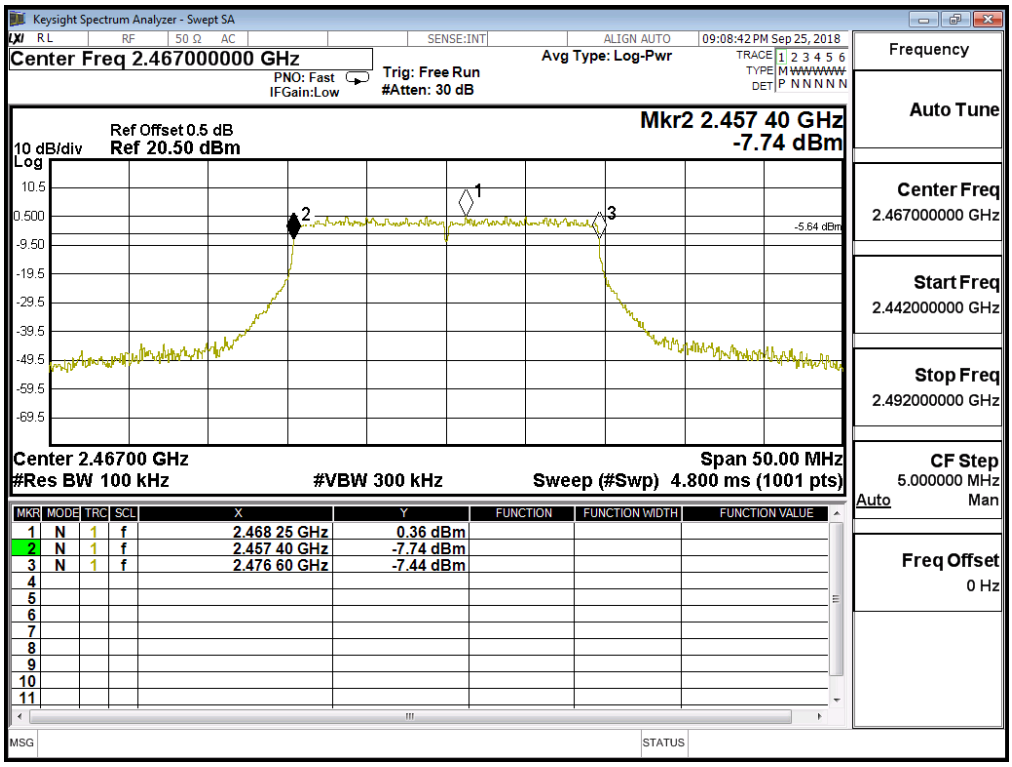


Figure Channel 13: (Chain A)

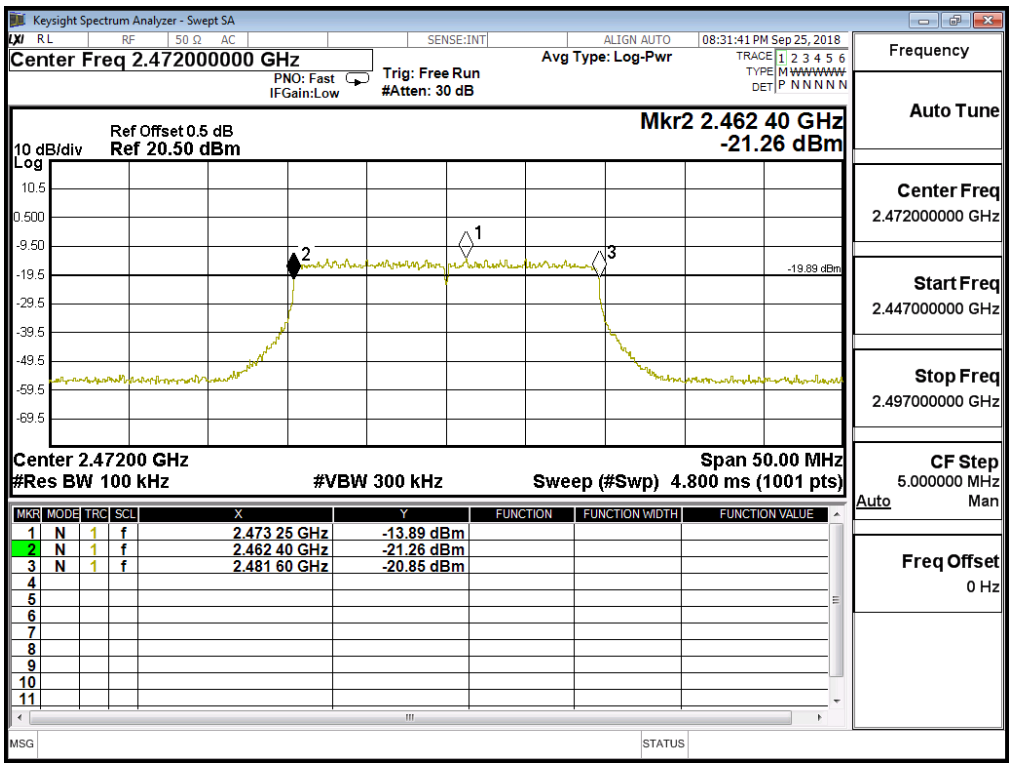
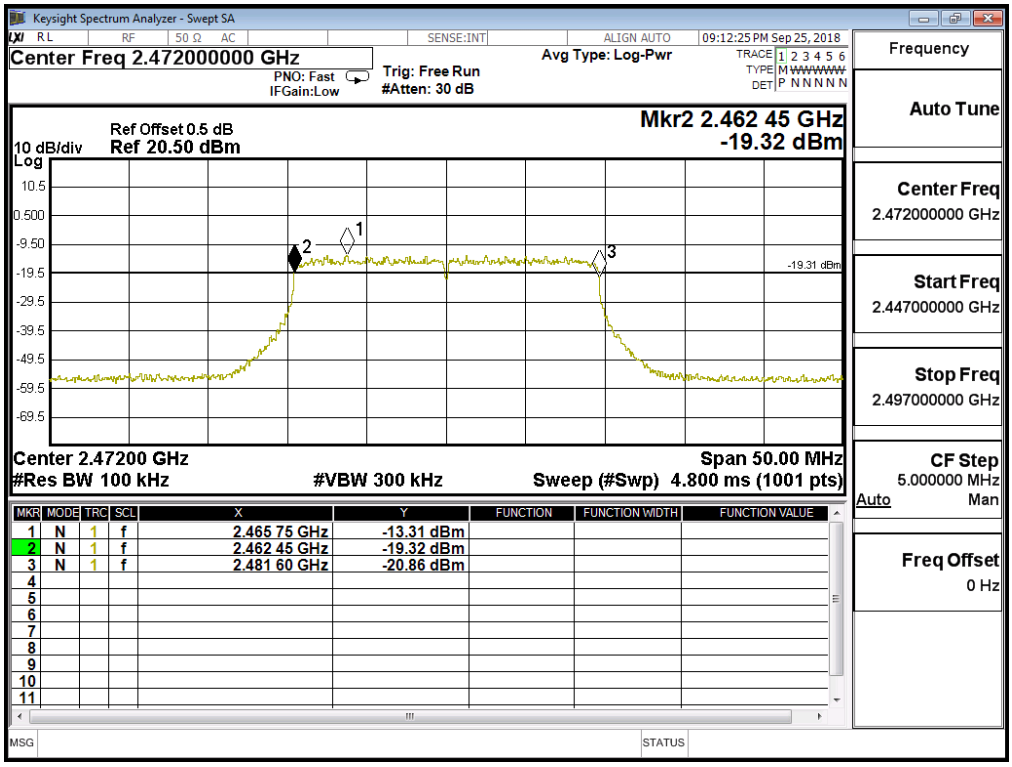


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW
測試項目：佔用頻帶寬度
測試頻道：- -
測試模式：Mode 16: MIMO: 發射器 802.11ax (40MHz)
6 dB 頻寬：100kHz
視頻頻寬：300kHz
量測天線：- -
測試距離：Conducted
檢測器：峰值
環境溫度：20 ℃
測試日期：107 年 09 月 21 日
環境濕度：52 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	A	38300	>500	Pass
07	2442	A	38300	>500	Pass
09	2452	A	38300	>500	Pass
10	2457	A	38300	>500	Pass
11	2462	A	38300	>500	Pass
03	2422	B	38200	>500	Pass
07	2442	B	38300	>500	Pass
09	2452	B	38200	>500	Pass
10	2457	B	38300	>500	Pass
11	2462	B	38200	>500	Pass

Figure Channel 03: (Chain A)

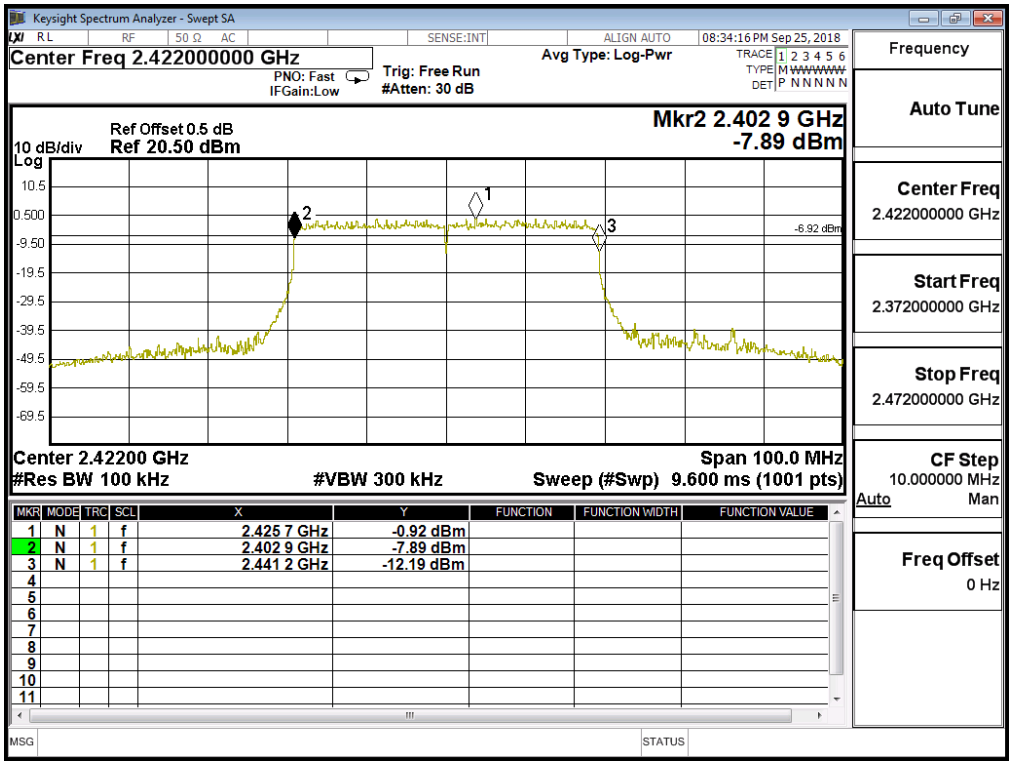


Figure Channel 03: (Chain B)

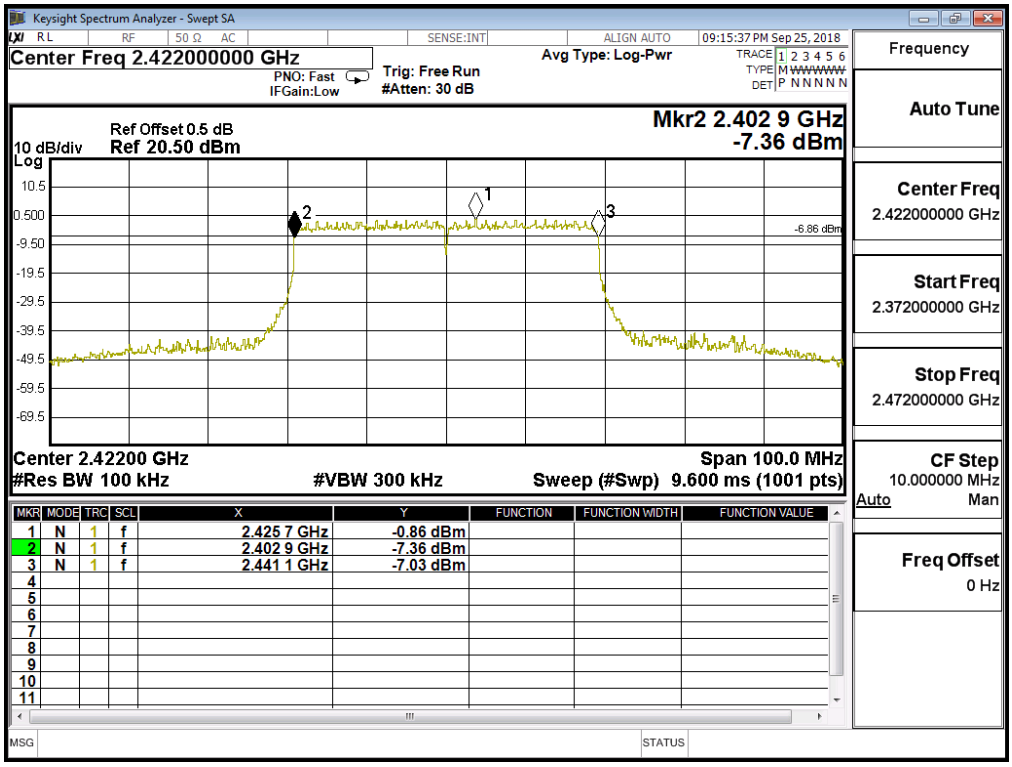


Figure Channel 07: (Chain A)

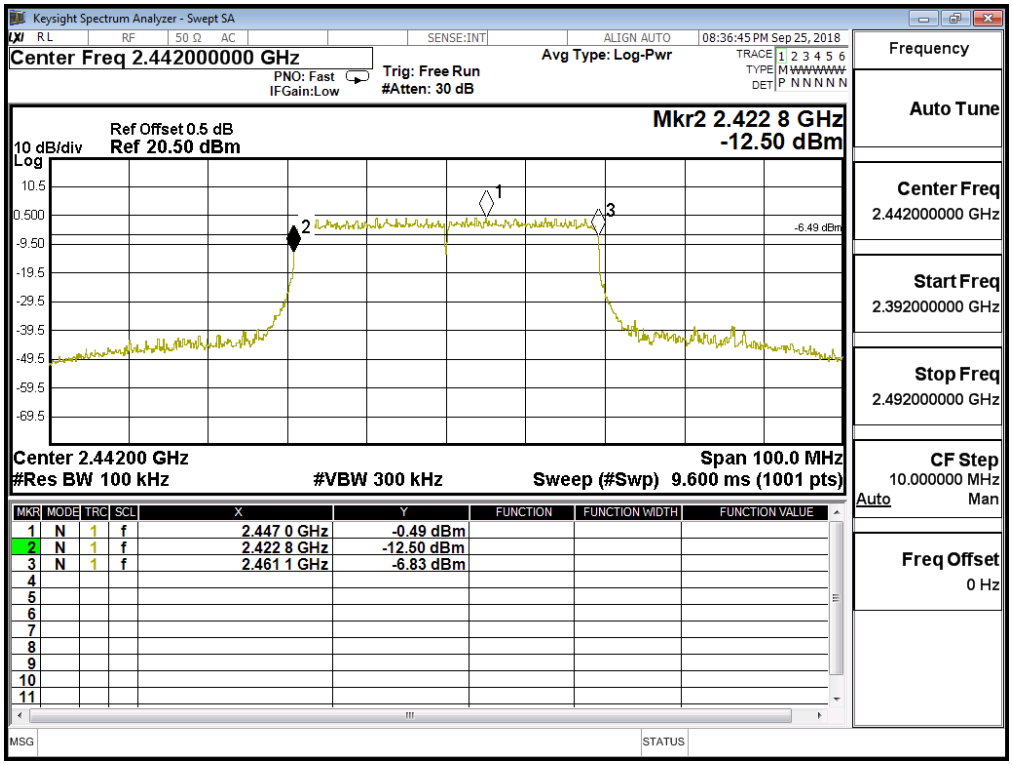


Figure Channel 07: (Chain B)

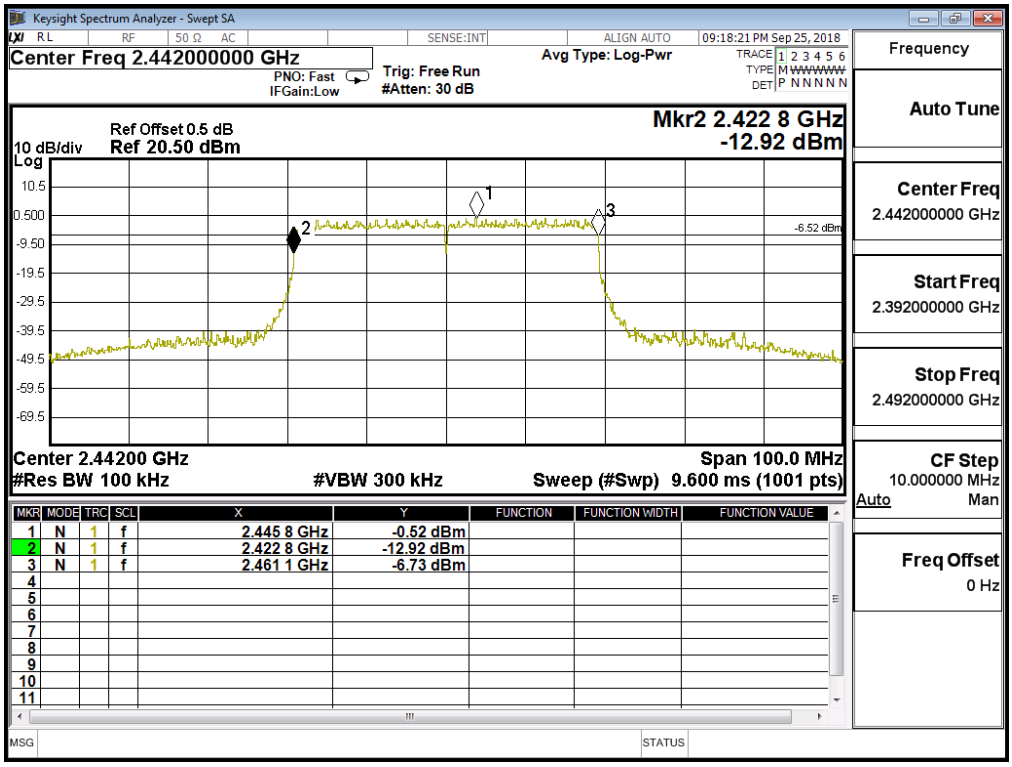


Figure Channel 09: (Chain A)

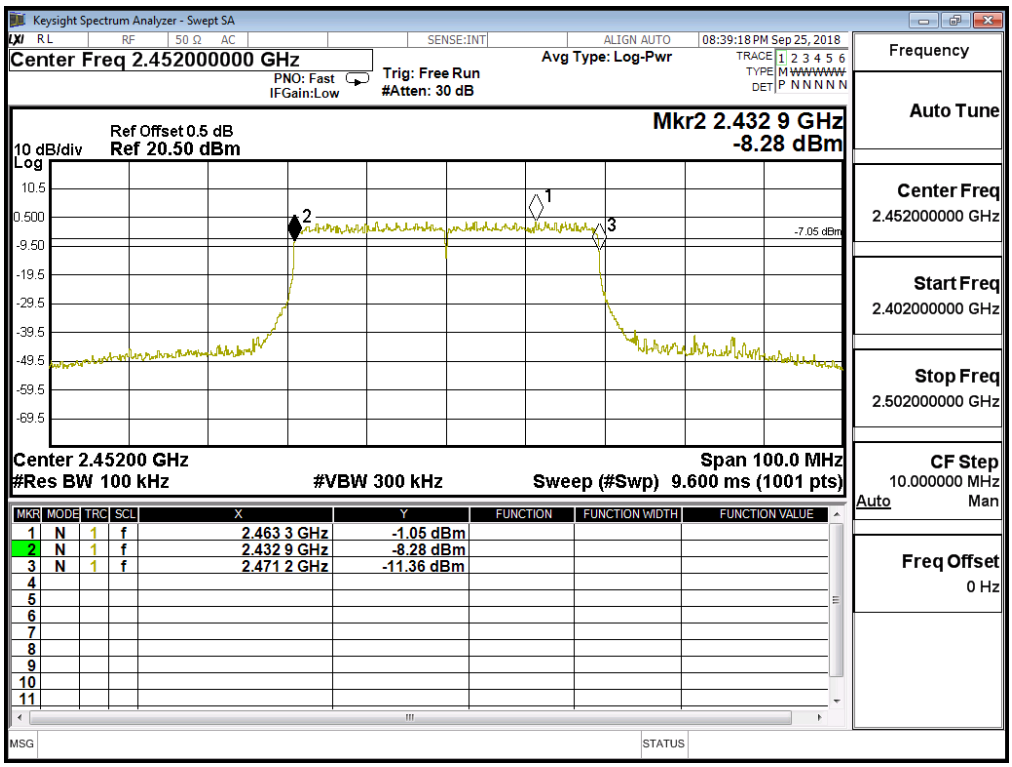


Figure Channel 09: (Chain B)

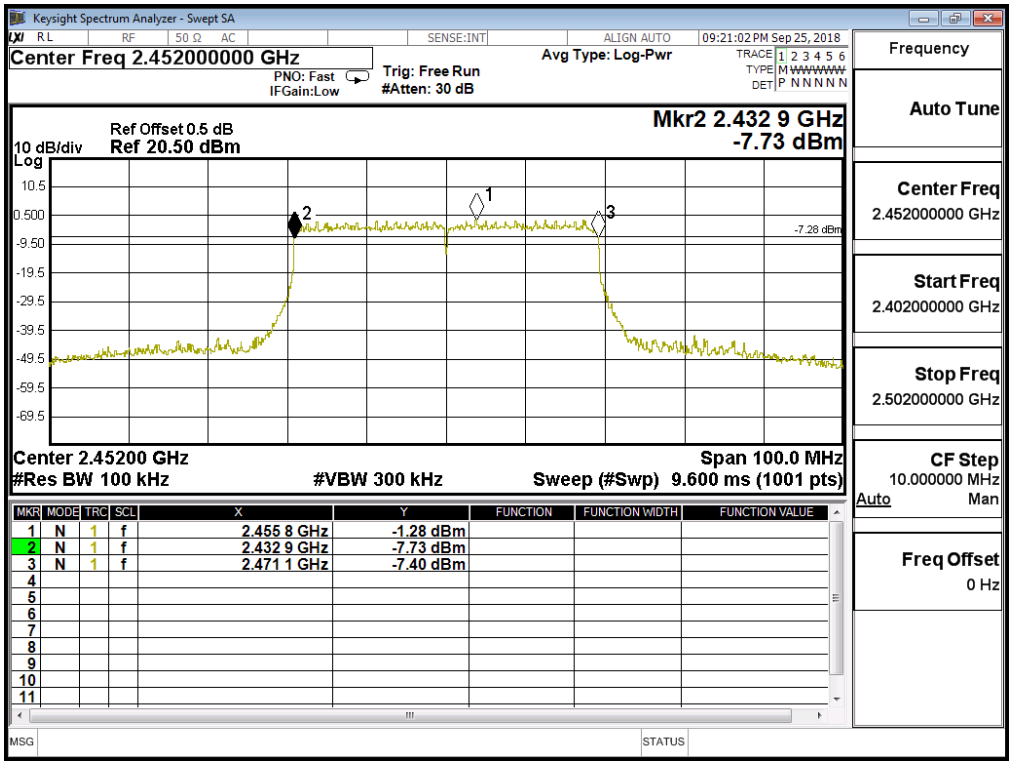


Figure Channel 10: (Chain A)

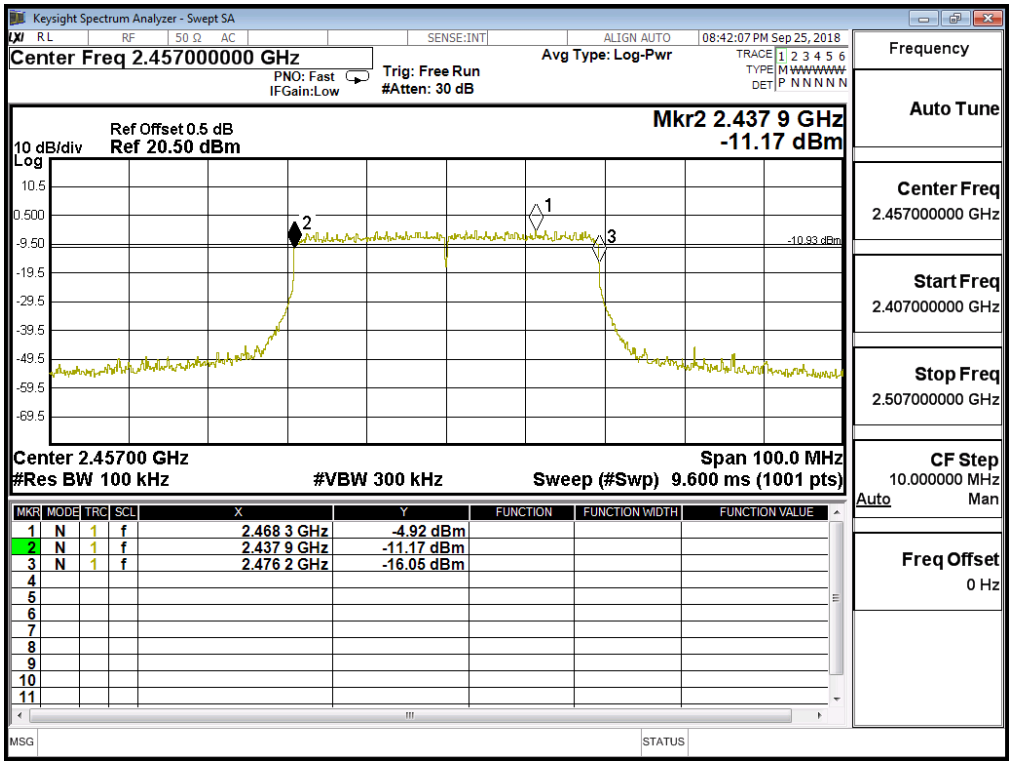


Figure Channel 10: (Chain B)

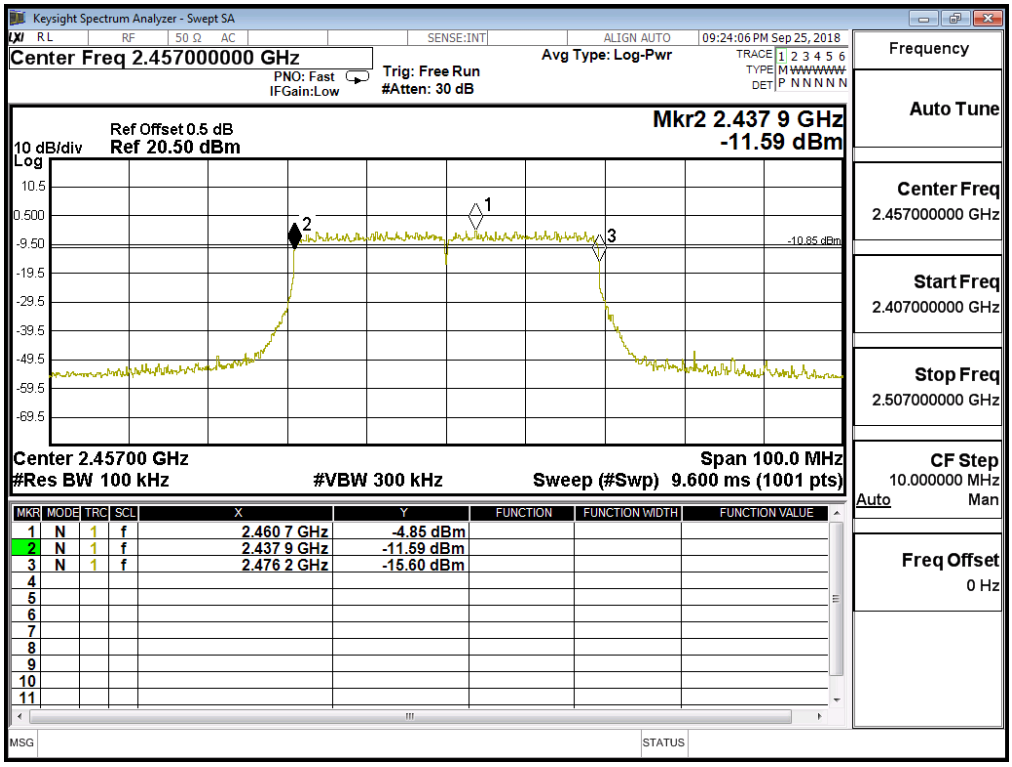


Figure Channel 11: (Chain A)

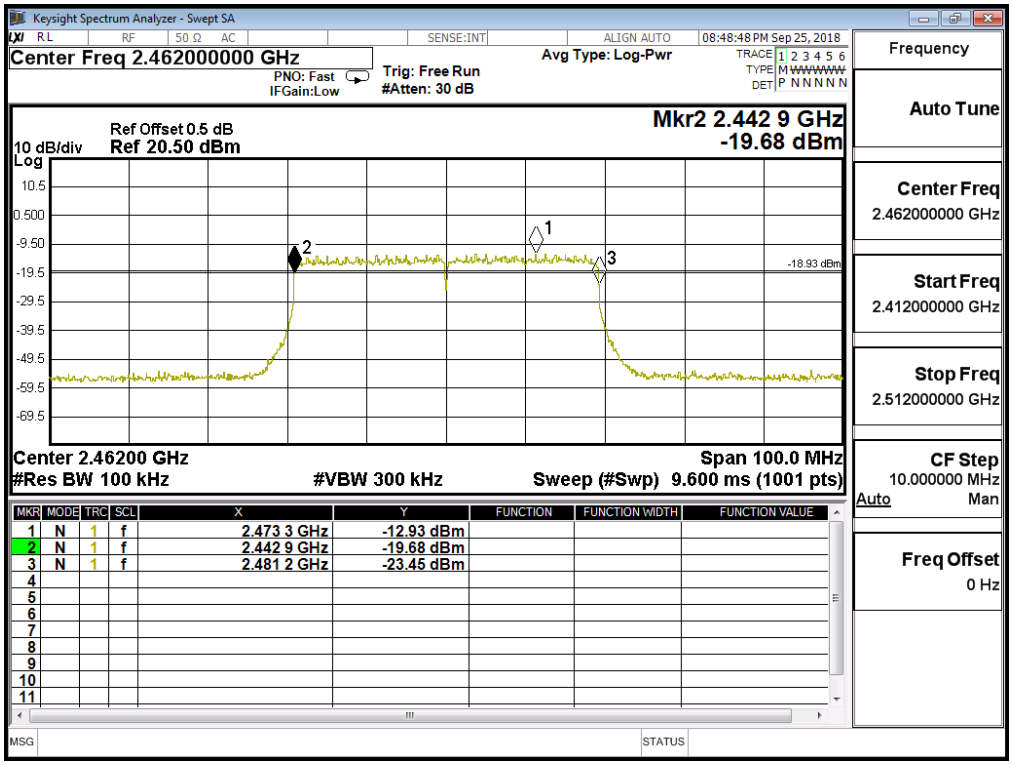
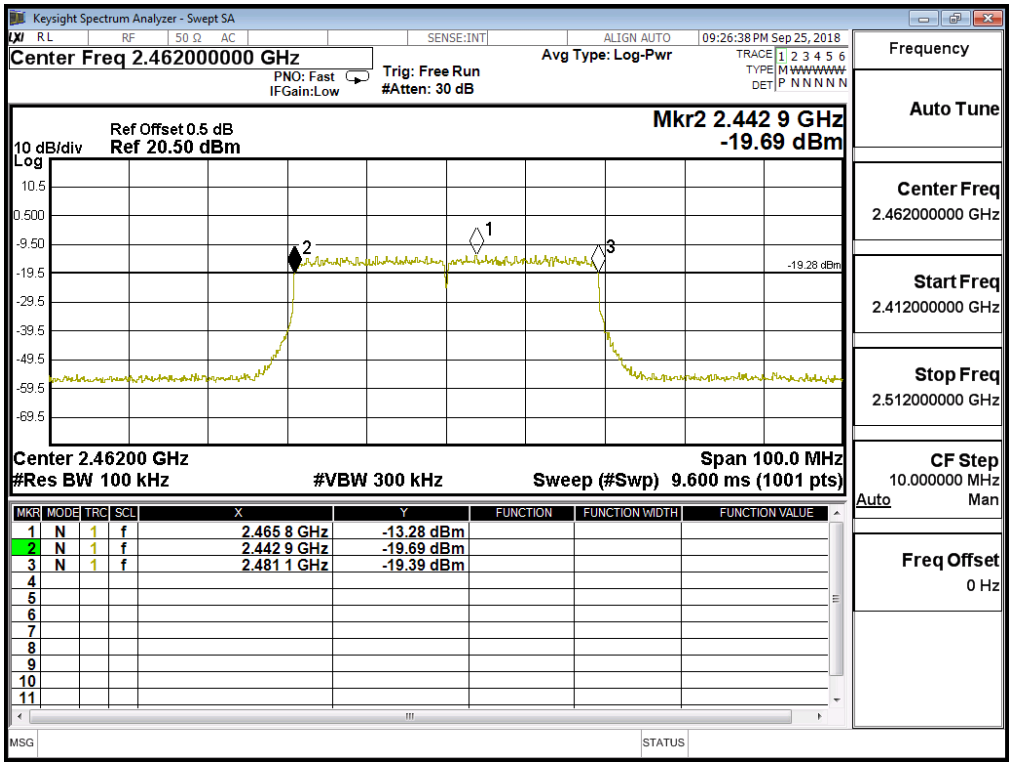


Figure Channel 11: (Chain B)



佔用頻道寬度測試結果:	**PASS**

10. 發射電功率密度

10.1. 適用標準

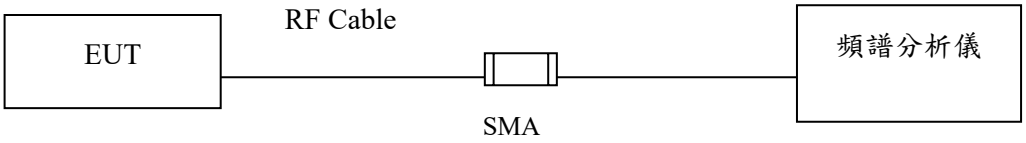
依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.6 節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm，且應依 3.10.1.3 之方式降低功率頻譜密度限制值。

10.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端。找出發射峰值並擴展於通帶內，設定頻譜分析儀之解析度頻寬為 3kHz，視訊頻寬大於解析度頻寬，掃瞄時間為頻率掃瞄範圍除以 3kHz。(SWEEP TIME＝SPAN/3kHz)。

待測物應在正常發射狀態下量測。

10.3. 測試架構圖



10.4. 量測不確定度

此項測試之量測不確定度為±1.23dB。

10.5. 功率密度量測結果

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW
測試頻道：- -
量測天線：- -
檢測器：峰值
測試日期：107 年 09 月 21 日
測試項目：功率密度
測試模式：Mode 1: SISO A: 發射器 802.11b
測試距離：Conducted
環境溫度：20 ℃
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.78	≦8dBm	Pass
07	2442	7.54	≦8dBm	Pass
11	2462	7.94	≦8dBm	Pass
12	2467	7.67	≦8dBm	Pass
13	2472	6.03	≦8dBm	Pass

Figure Channel 01:

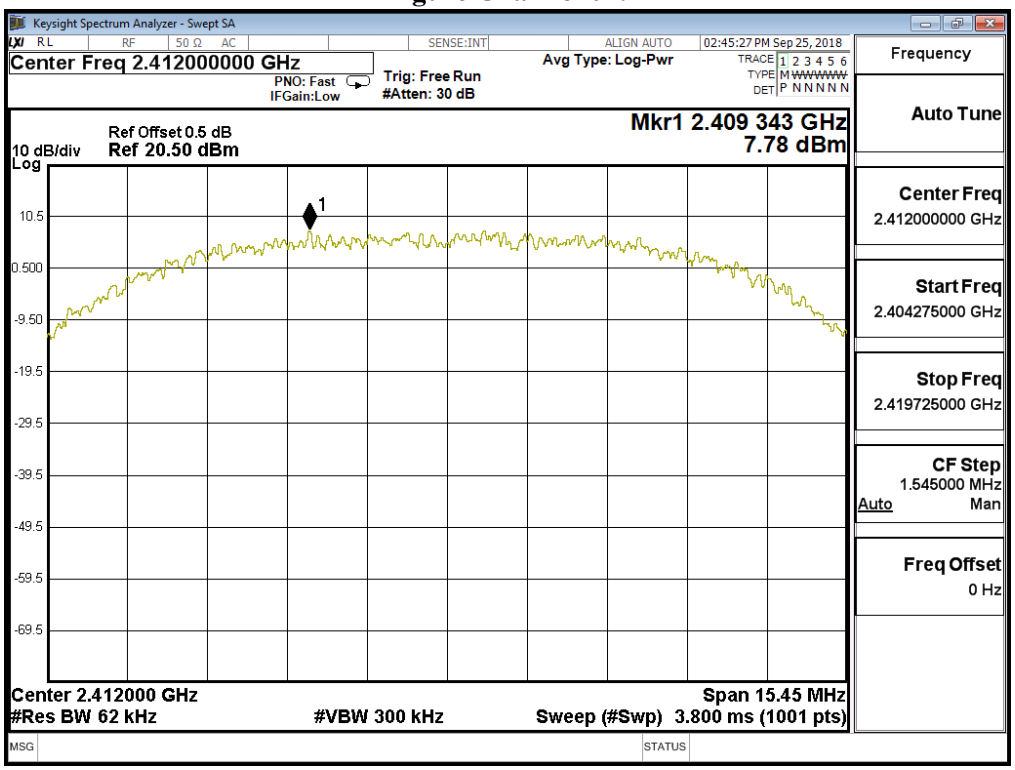


Figure Channel 07:

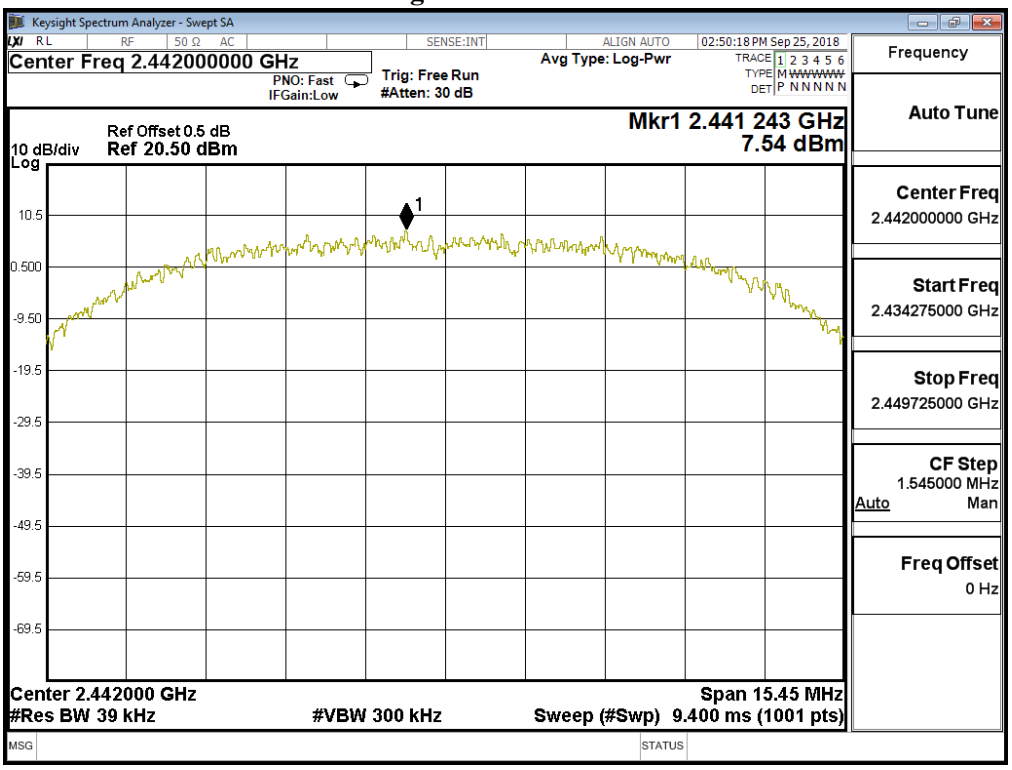


Figure Channel 11:

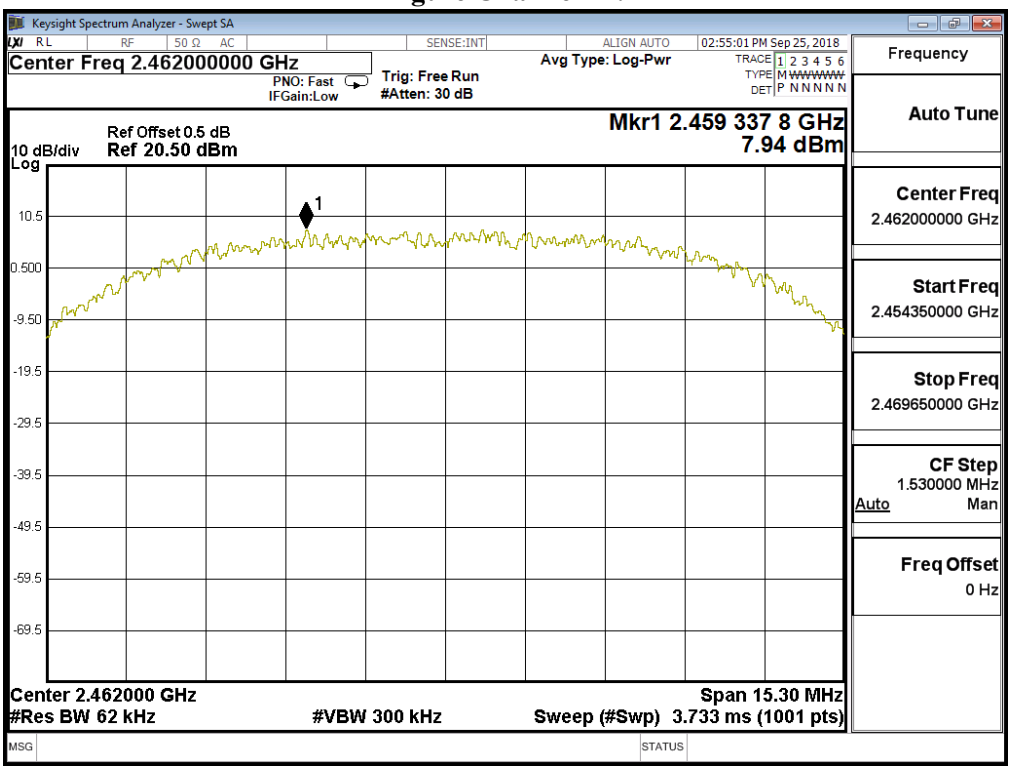


Figure Channel 12:

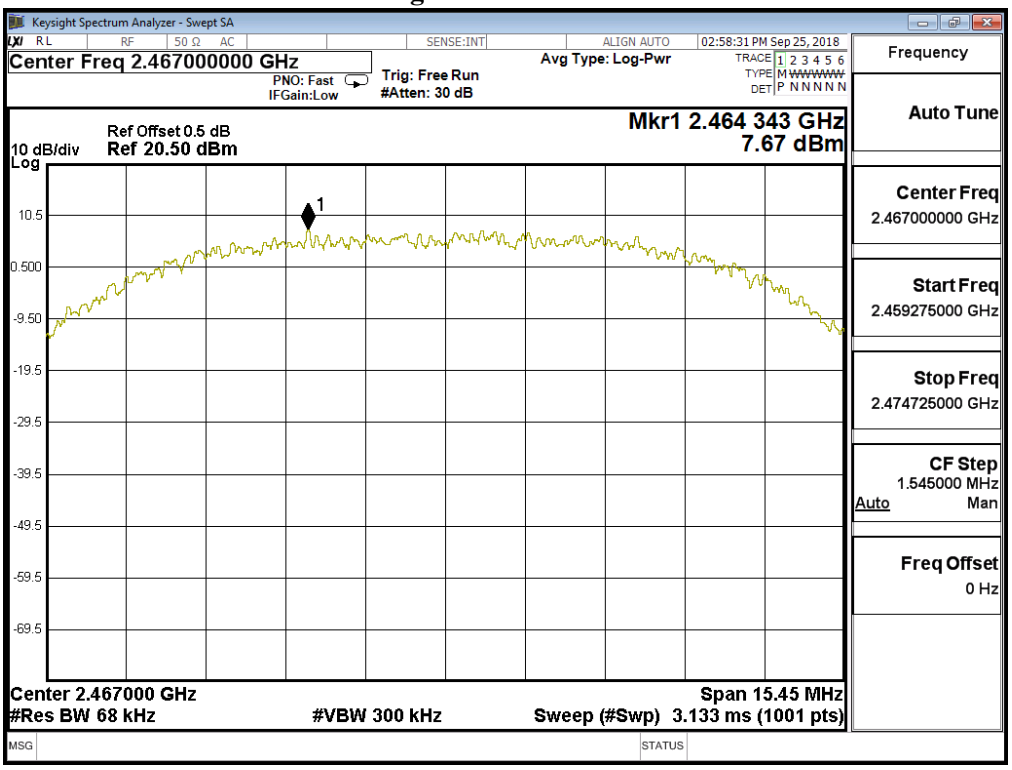
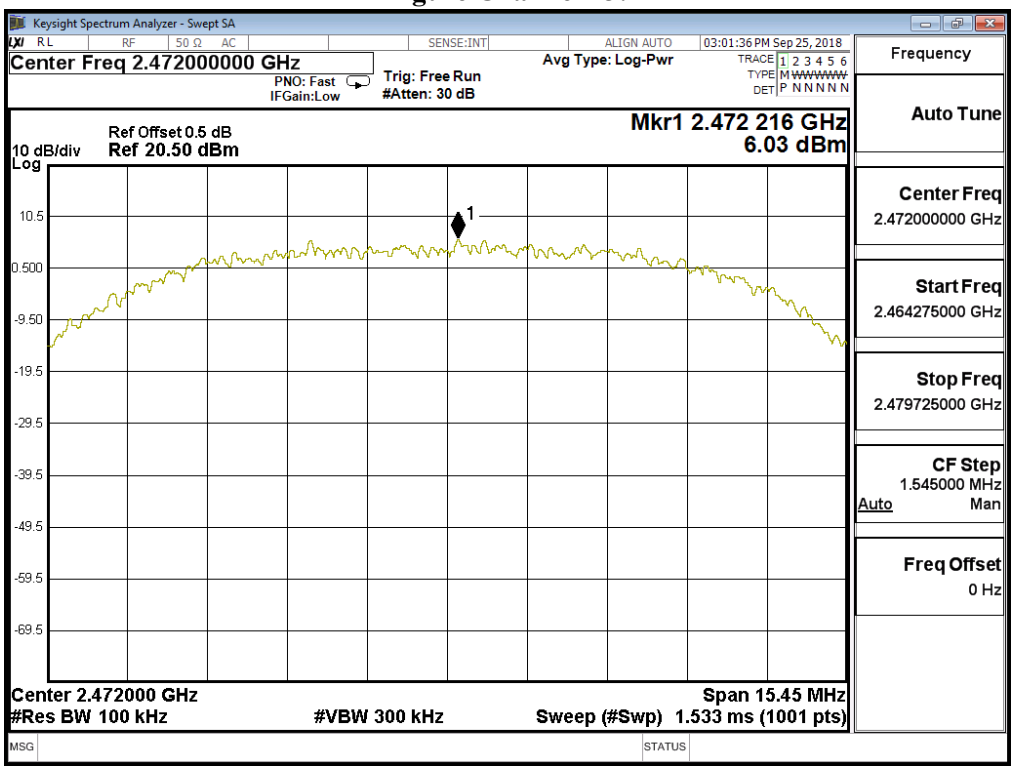


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：- -　　測試模式：Mode 2: SISO A: 發射器 802.11g
量測天線：- -　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.91	≦8dBm	Pass
07	2442	7.71	≦8dBm	Pass
11	2462	7.2	≦8dBm	Pass
12	2467	4.17	≦8dBm	Pass
13	2472	-9.51	≦8dBm	Pass

Figure Channel 01:

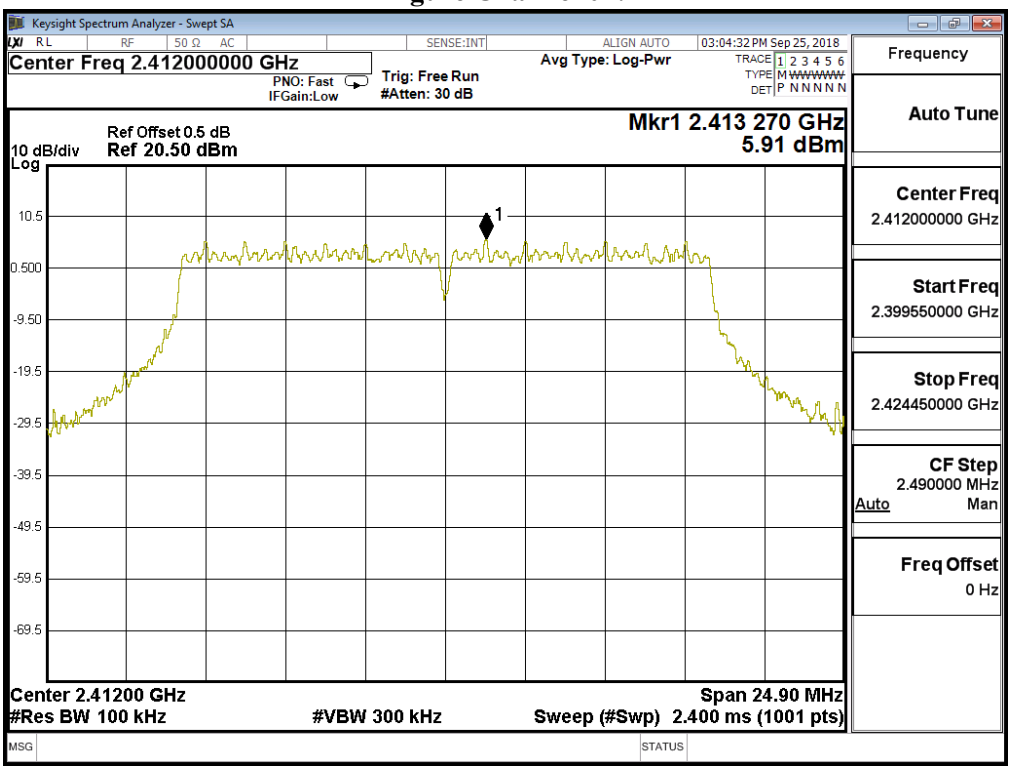


Figure Channel 07:

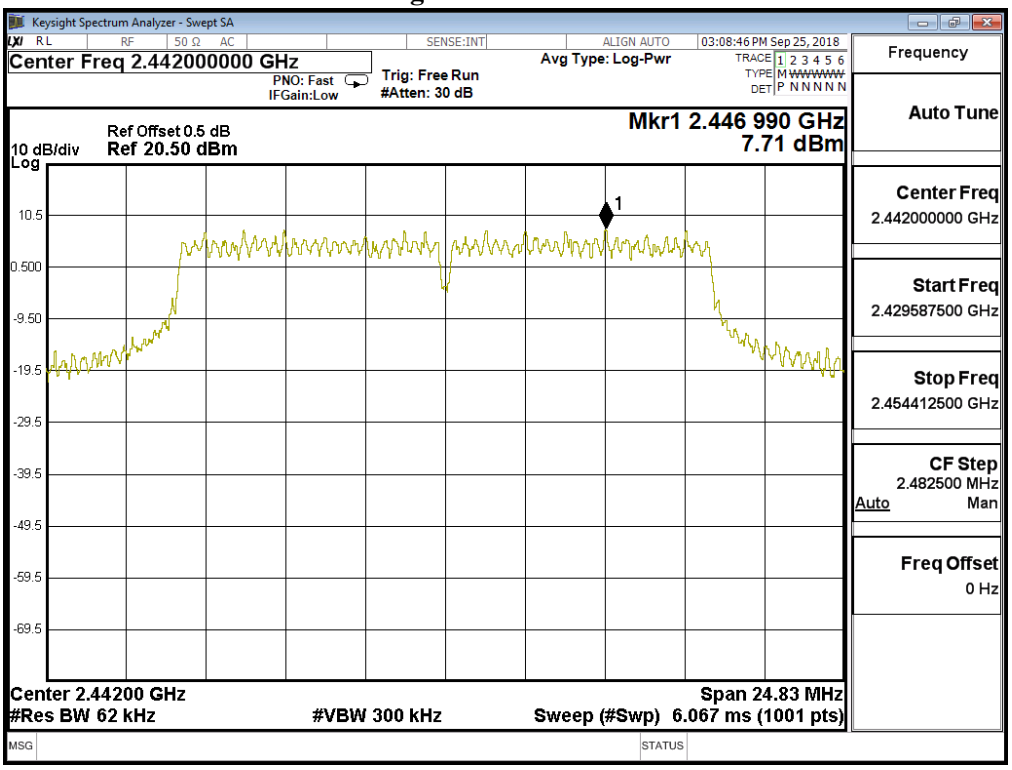


Figure Channel 11:

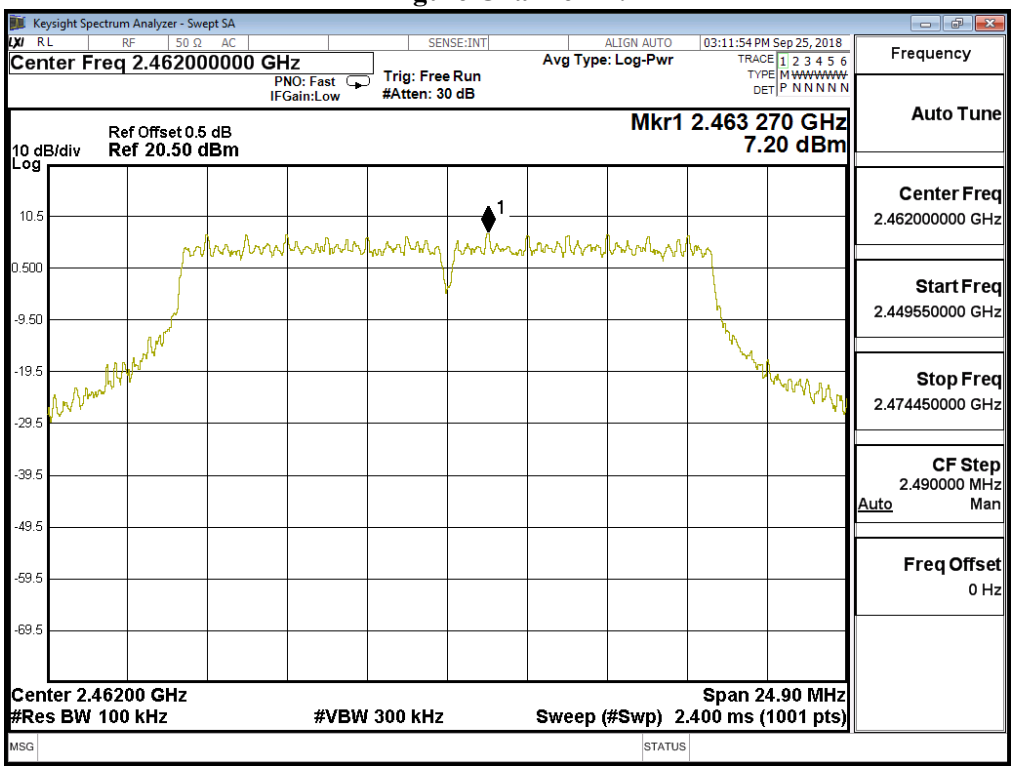


Figure Channel 12:

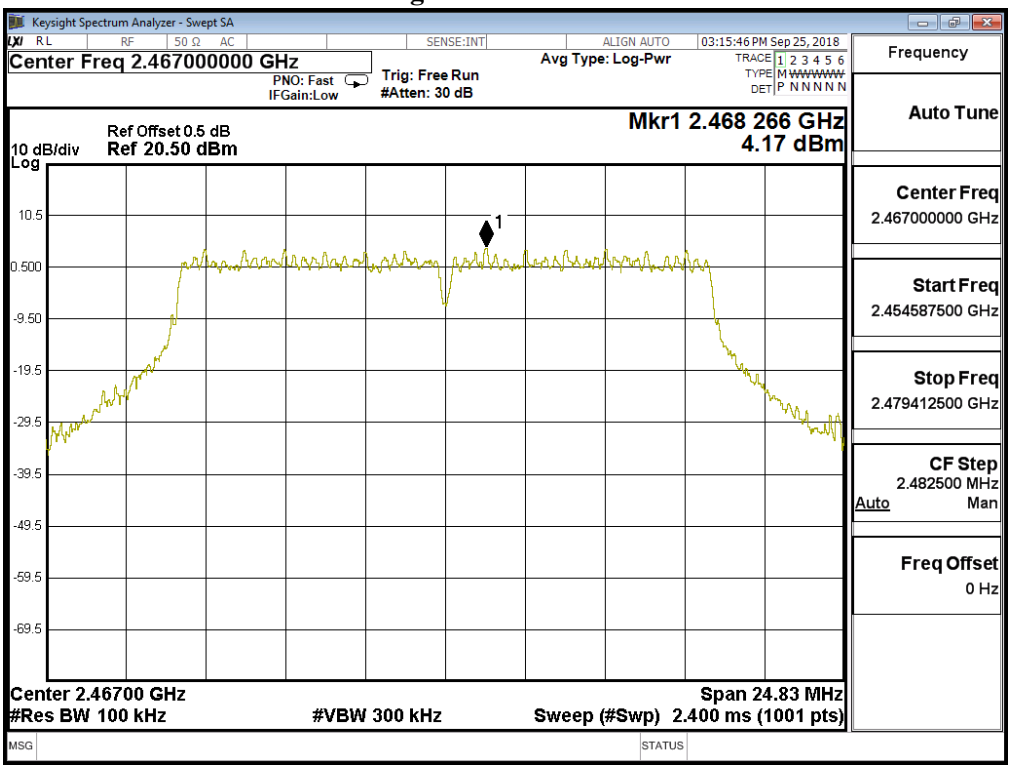
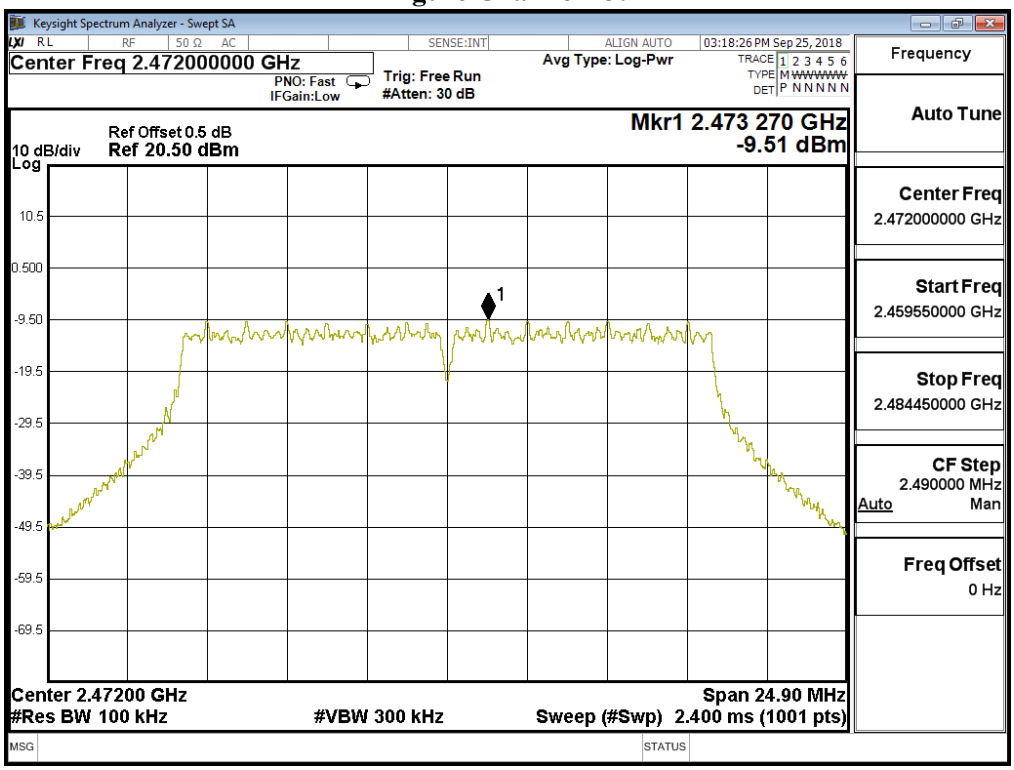


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：- -　　測試模式：Mode 3: SISO A: 發射器 802.11n (20MHz)
量測天線：- -　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	6.05	≦8dBm	Pass
07	2442	7.85	≦8dBm	Pass
11	2462	7.07	≦8dBm	Pass
12	2467	4.13	≦8dBm	Pass
13	2472	-9.94	≦8dBm	Pass

Figure Channel 01:

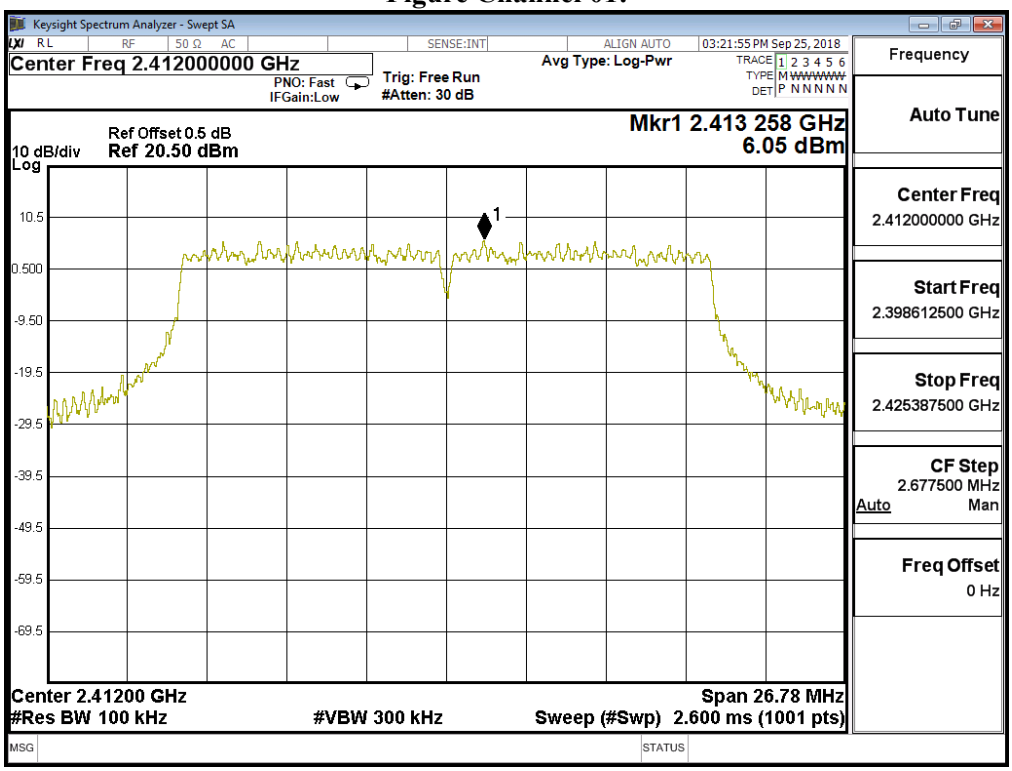


Figure Channel 07:

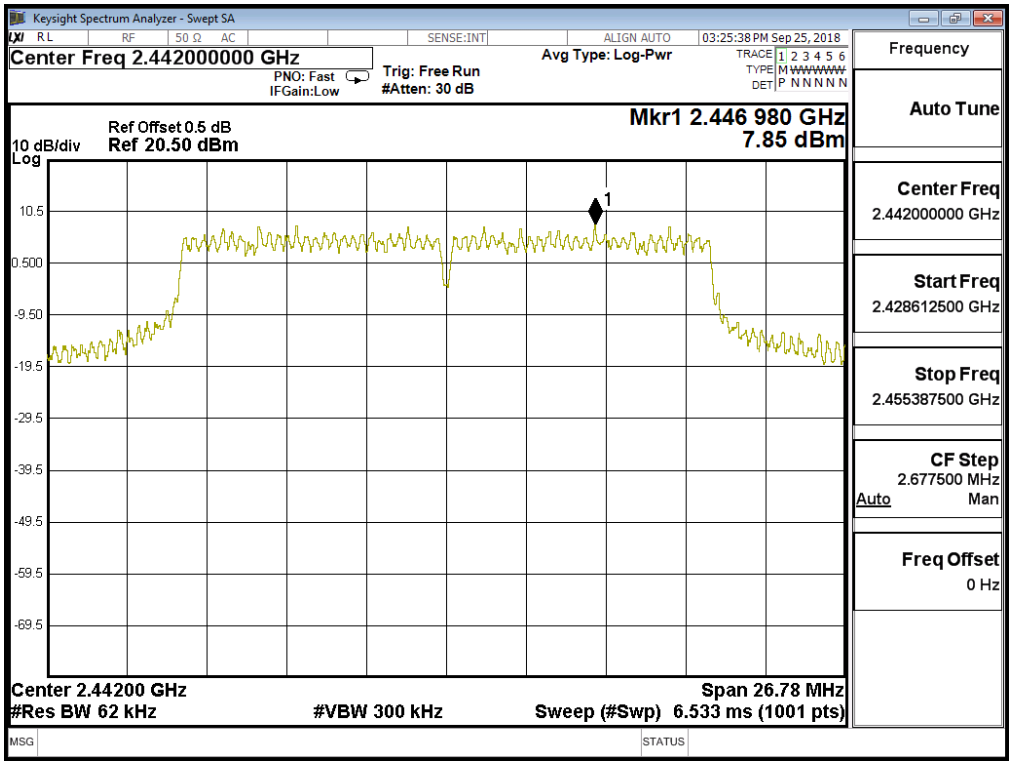


Figure Channel 11:

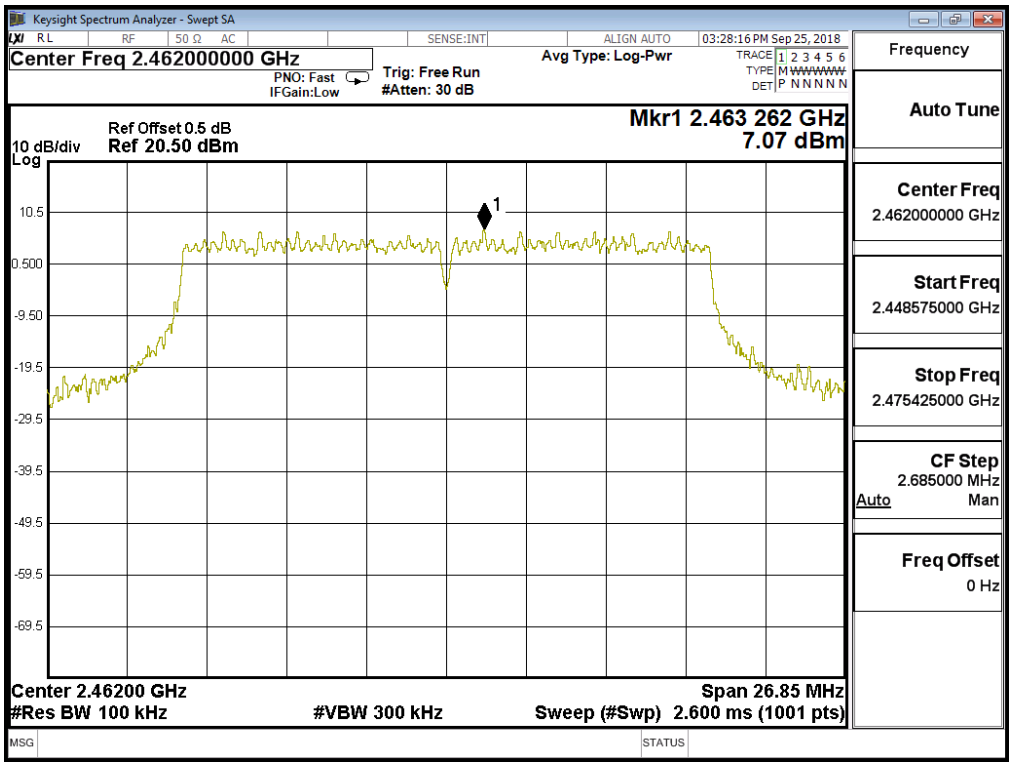


Figure Channel 12:

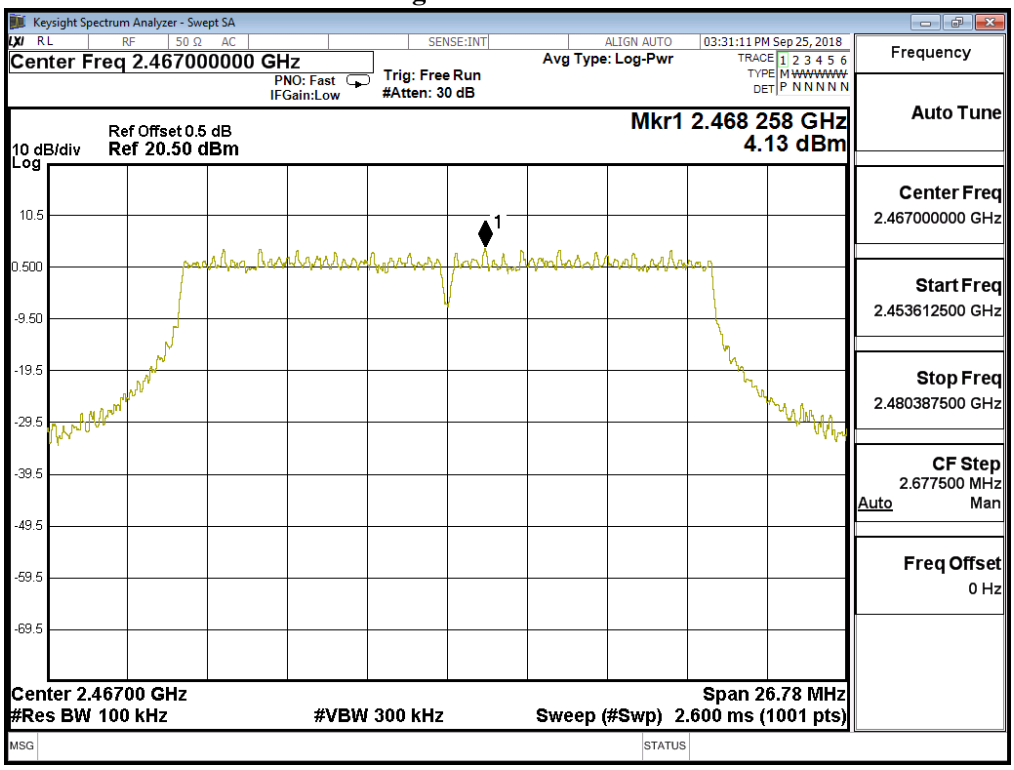
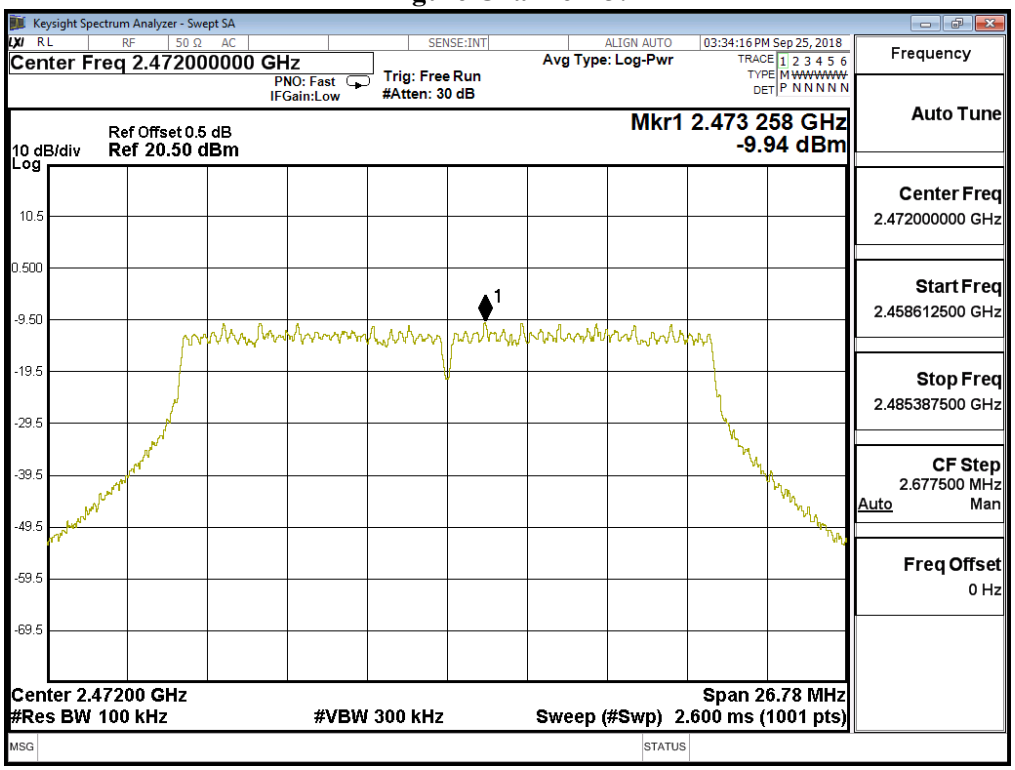


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 4: SISO A: 發射器 802.11n (40MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.42	≦8dBm	Pass
07	2442	2.79	≦8dBm	Pass
09	2452	2.02	≦8dBm	Pass
10	2457	-1.41	≦8dBm	Pass
11	2462	-9.13	≦8dBm	Pass

Figure Channel 03:

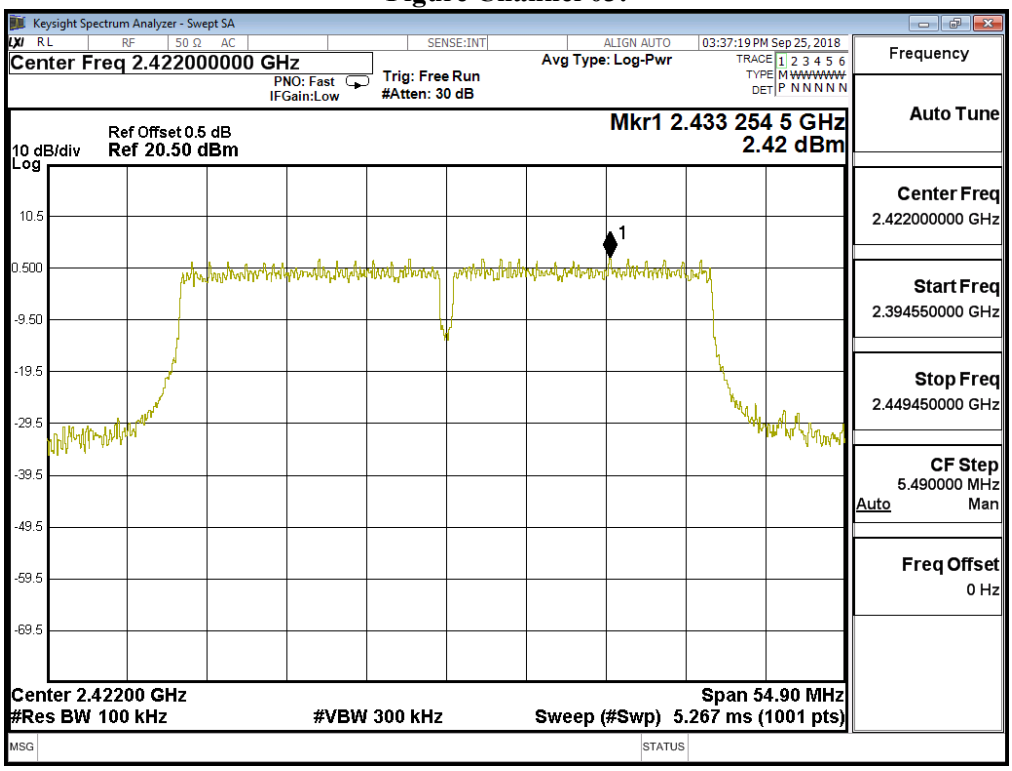


Figure Channel 07:

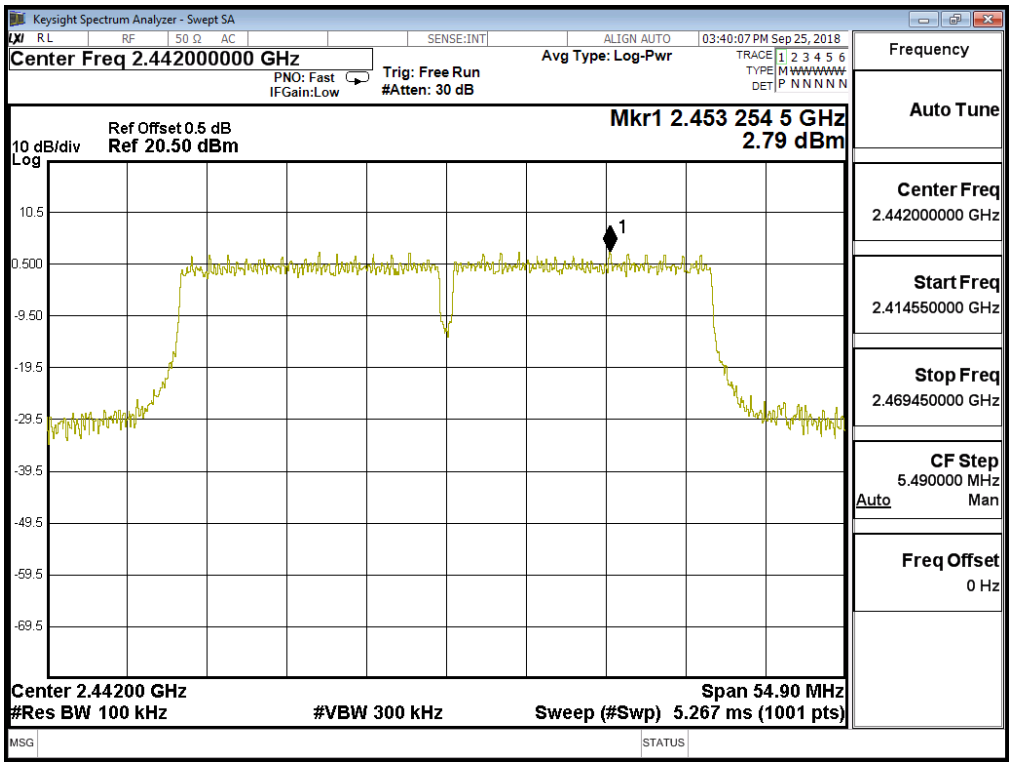


Figure Channel 09:

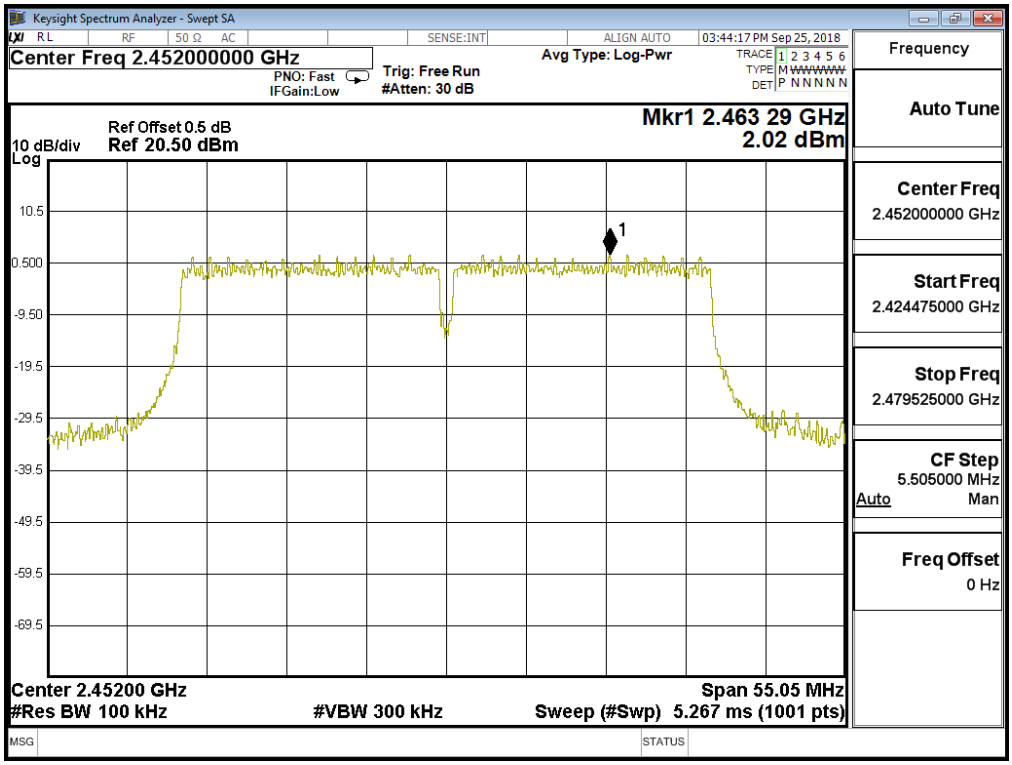


Figure Channel 10:

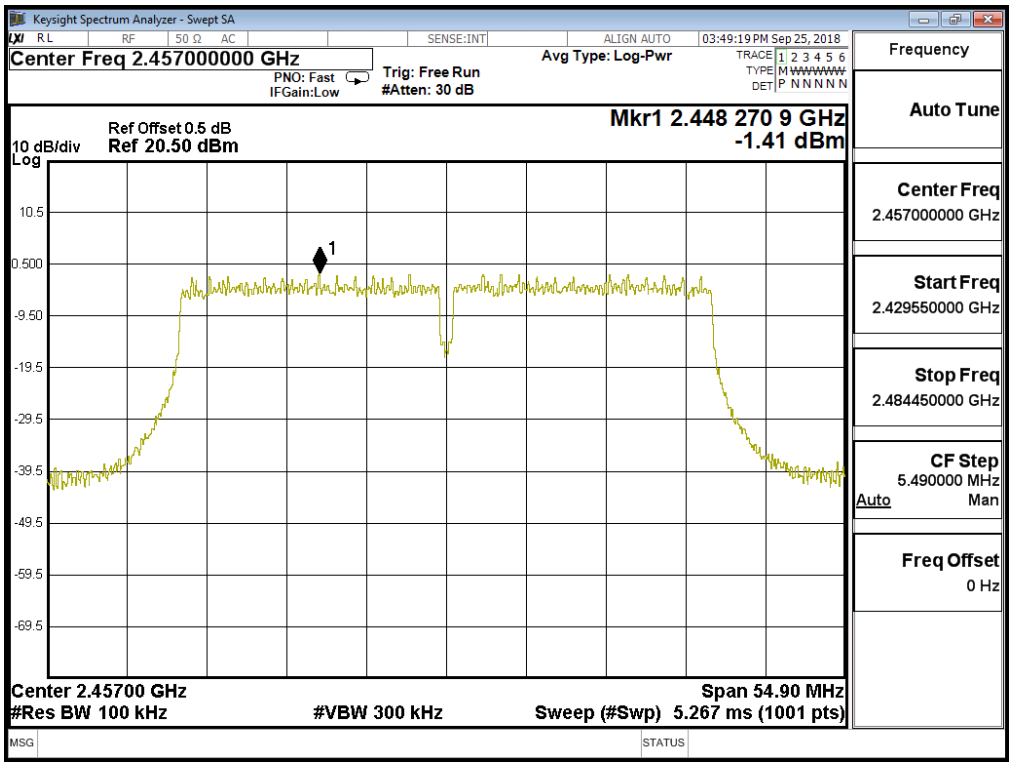
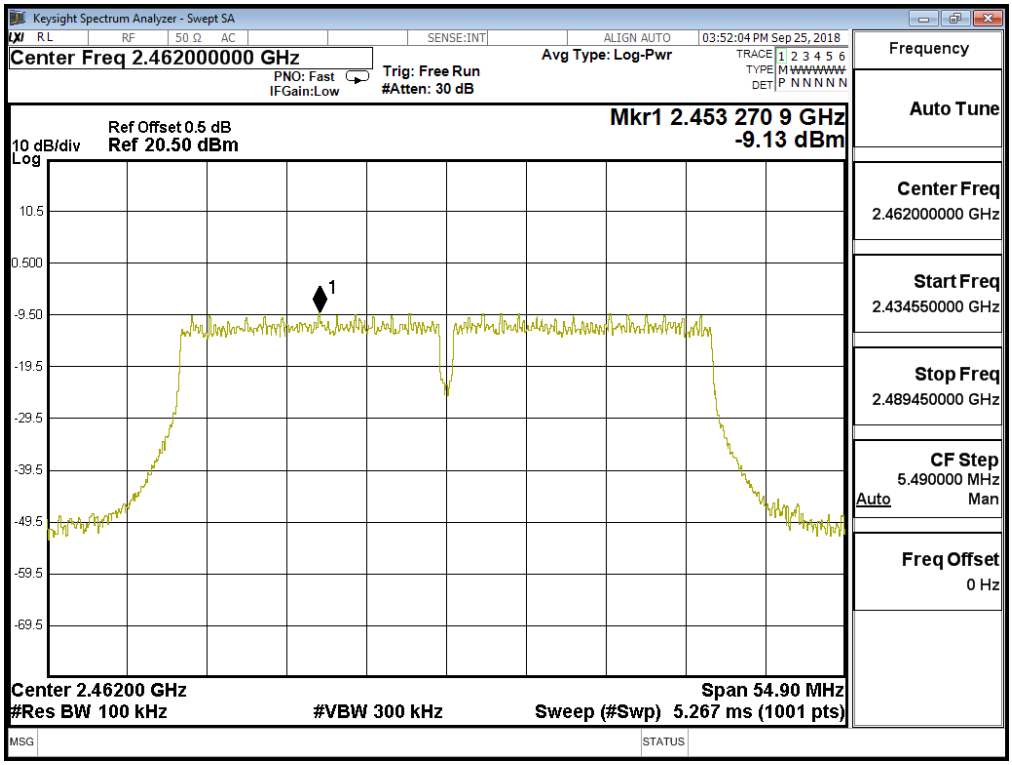


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW
測試頻道：- -
量測天線：- -
檢測器：峰值
測試日期：107 年 09 月 21 日
測試項目：功率密度
測試模式：Mode 7: SISO B: 發射器 802.11b
測試距離：Conducted
環境溫度：20 ℃
環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.90	≦8dBm	Pass
07	2442	7.82	≦8dBm	Pass
11	2462	7.21	≦8dBm	Pass
12	2467	7.64	≦8dBm	Pass
13	2472	5.97	≦8dBm	Pass

Figure Channel 01:

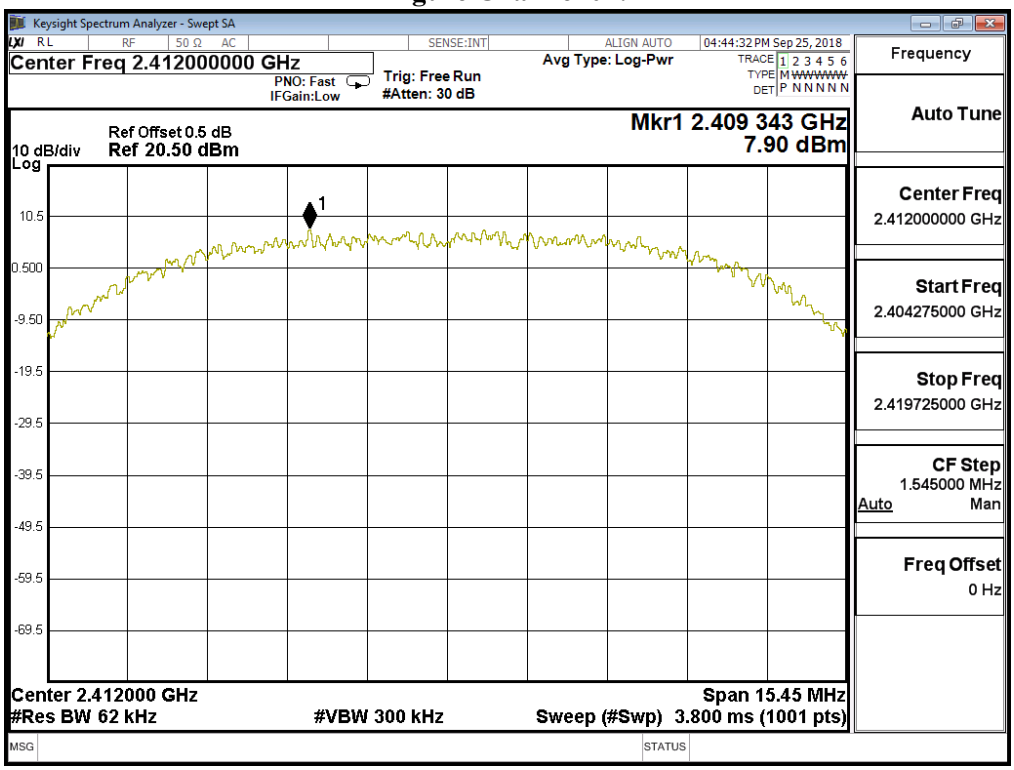


Figure Channel 07:

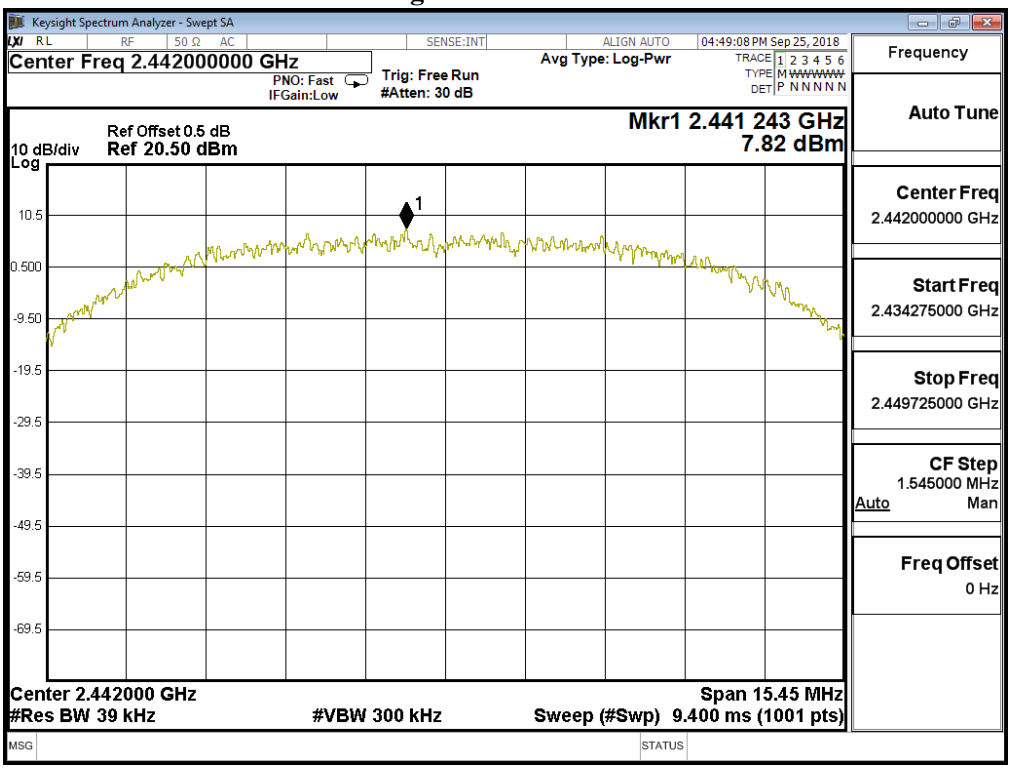


Figure Channel 11:

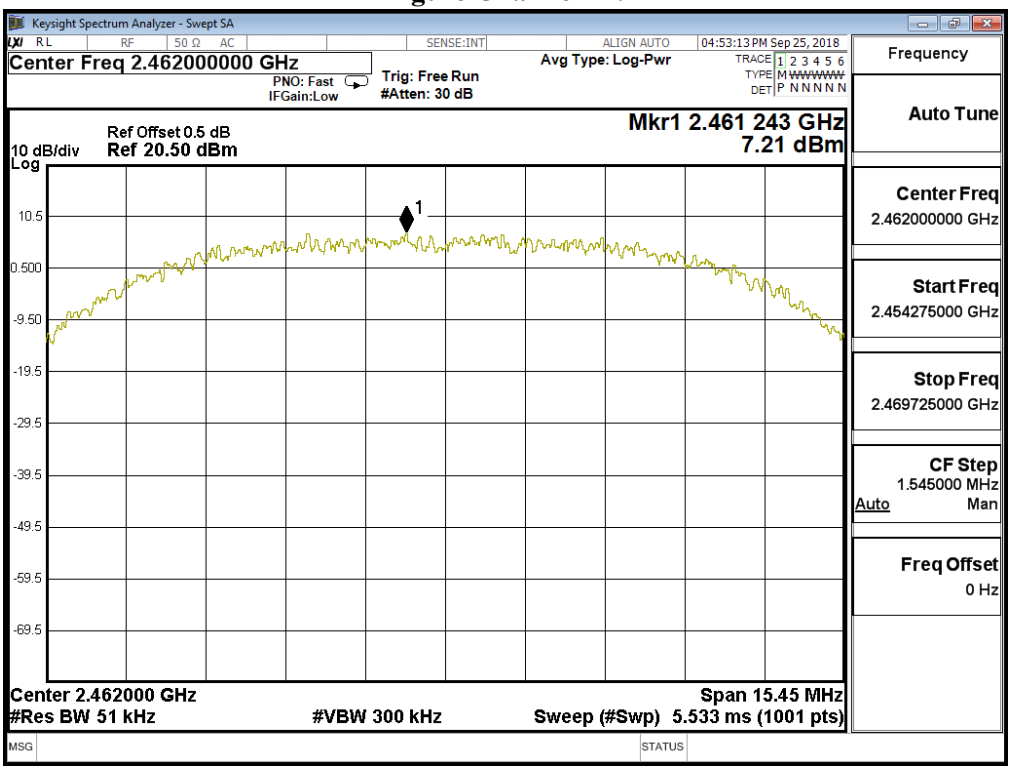


Figure Channel 12:

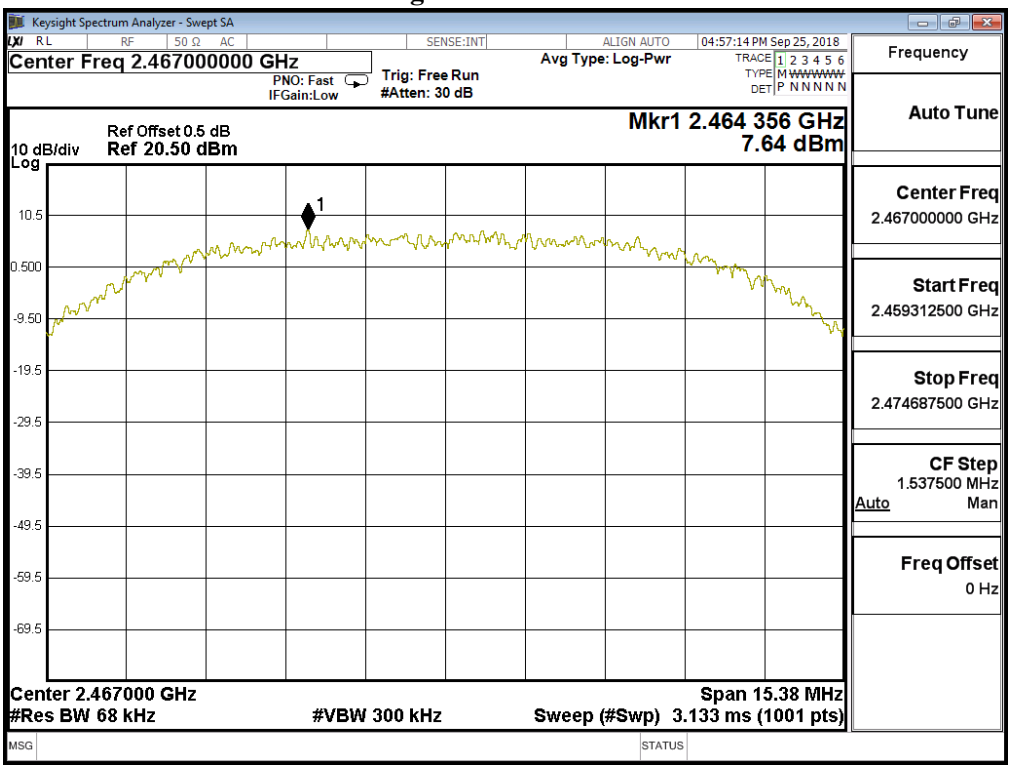
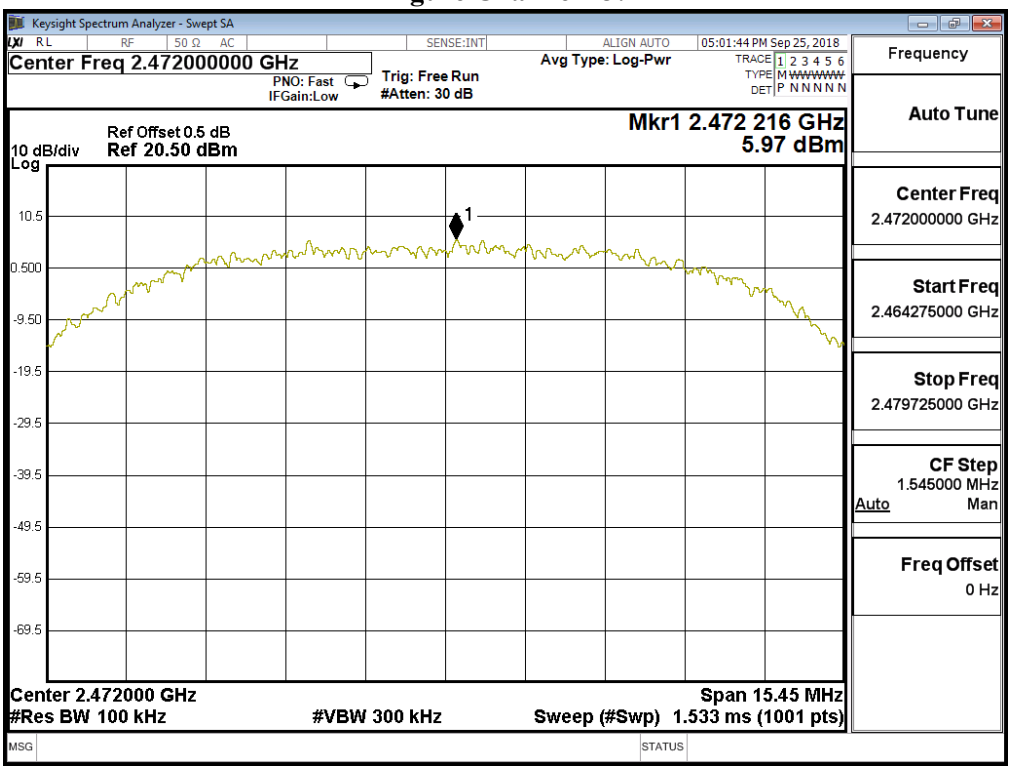


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：- -　　測試模式：Mode 8: SISO B: 發射器 802.11g
量測天線：- -　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.96	≦8dBm	Pass
07	2442	7.31	≦8dBm	Pass
11	2462	7.13	≦8dBm	Pass
12	2467	4.08	≦8dBm	Pass
13	2472	-10.9	≦8dBm	Pass

Figure Channel 01:

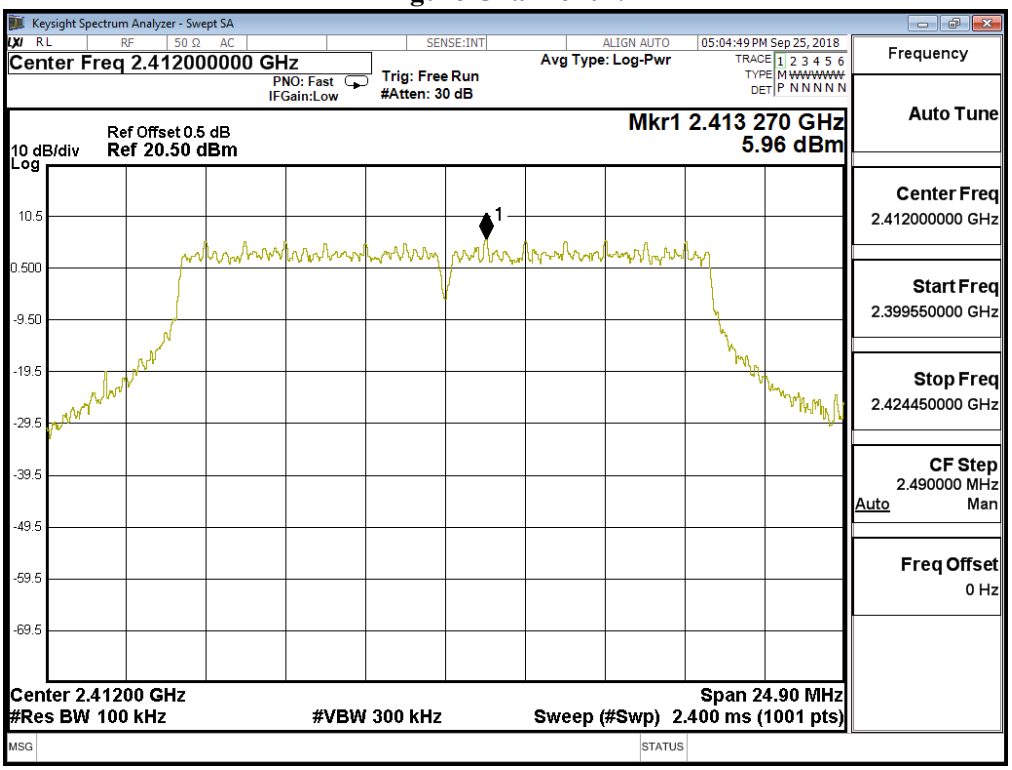


Figure Channel 07:

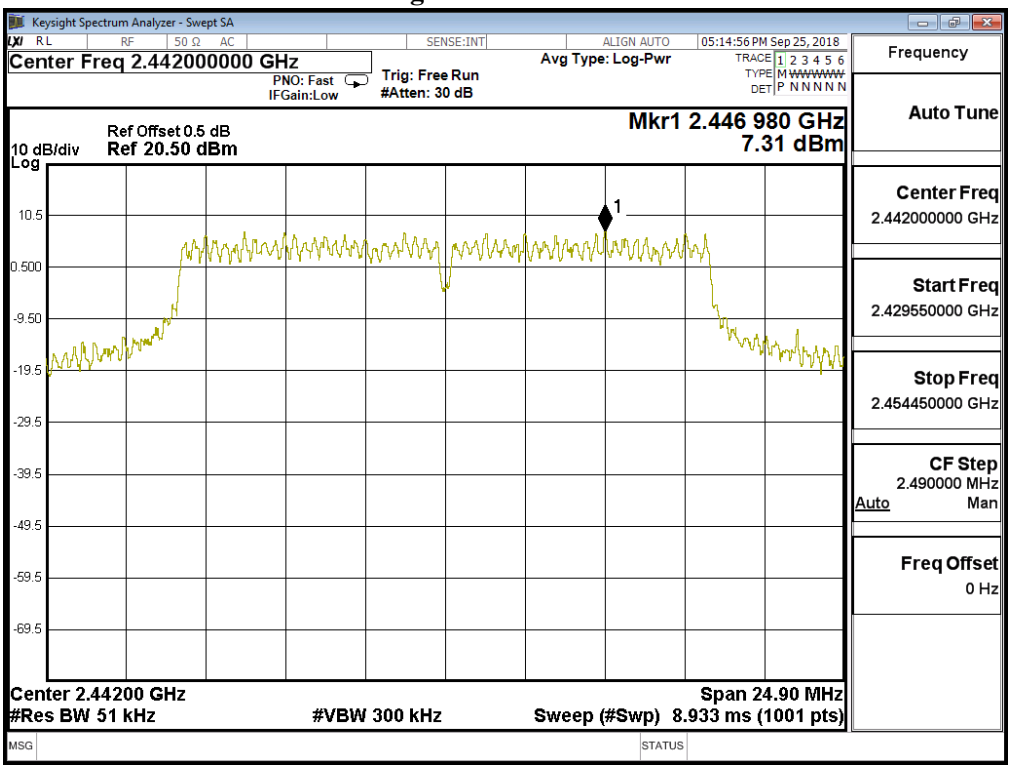


Figure Channel 11:

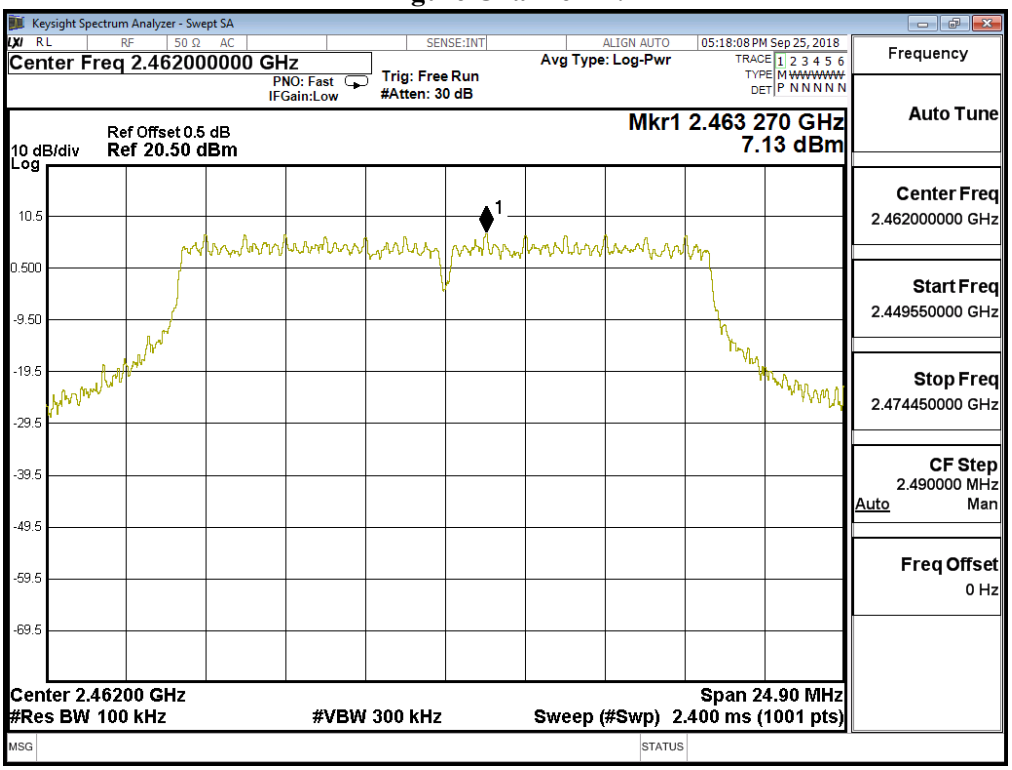


Figure Channel 12:

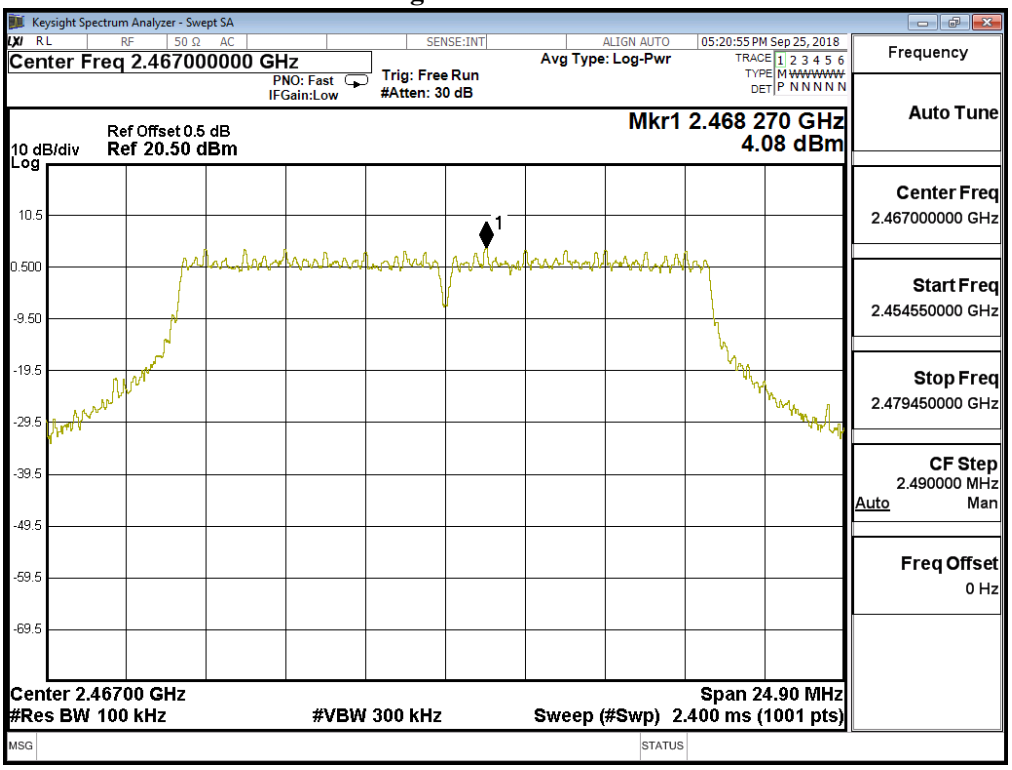
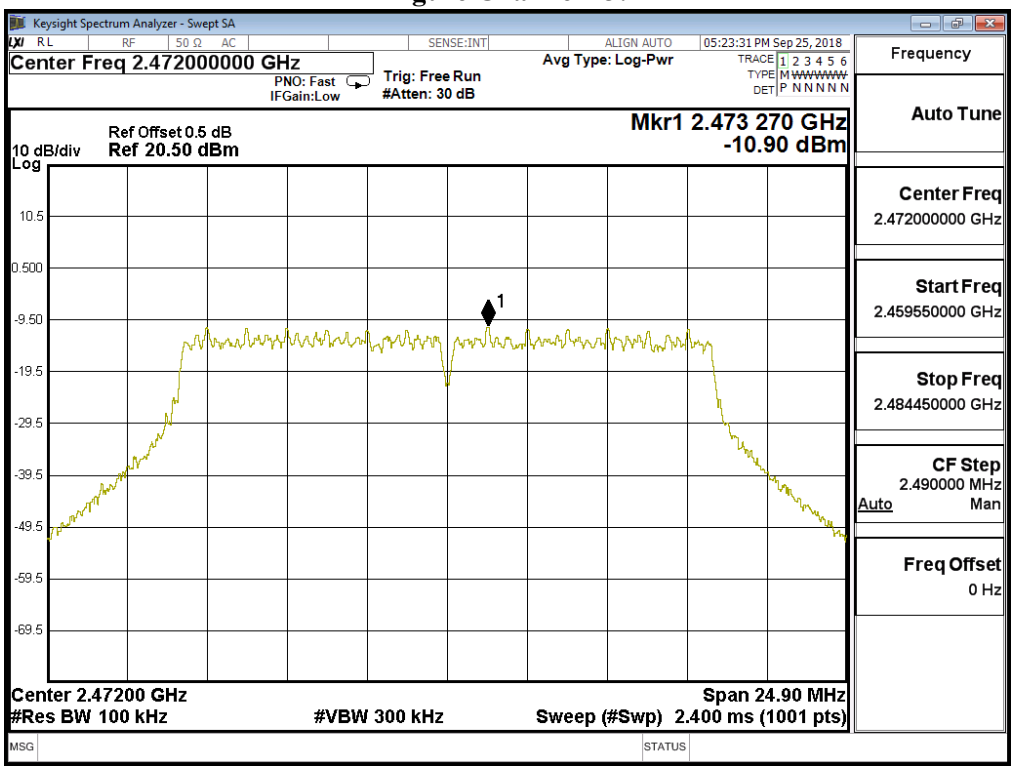


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：- -　　測試模式：Mode 9: SISO B: 發射器 802.11n (20MHz)
量測天線：- -　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.86	≦8dBm	Pass
07	2442	7.98	≦8dBm	Pass
11	2462	7.09	≦8dBm	Pass
12	2467	4.05	≦8dBm	Pass
13	2472	-11.01	≦8dBm	Pass

Figure Channel 01:

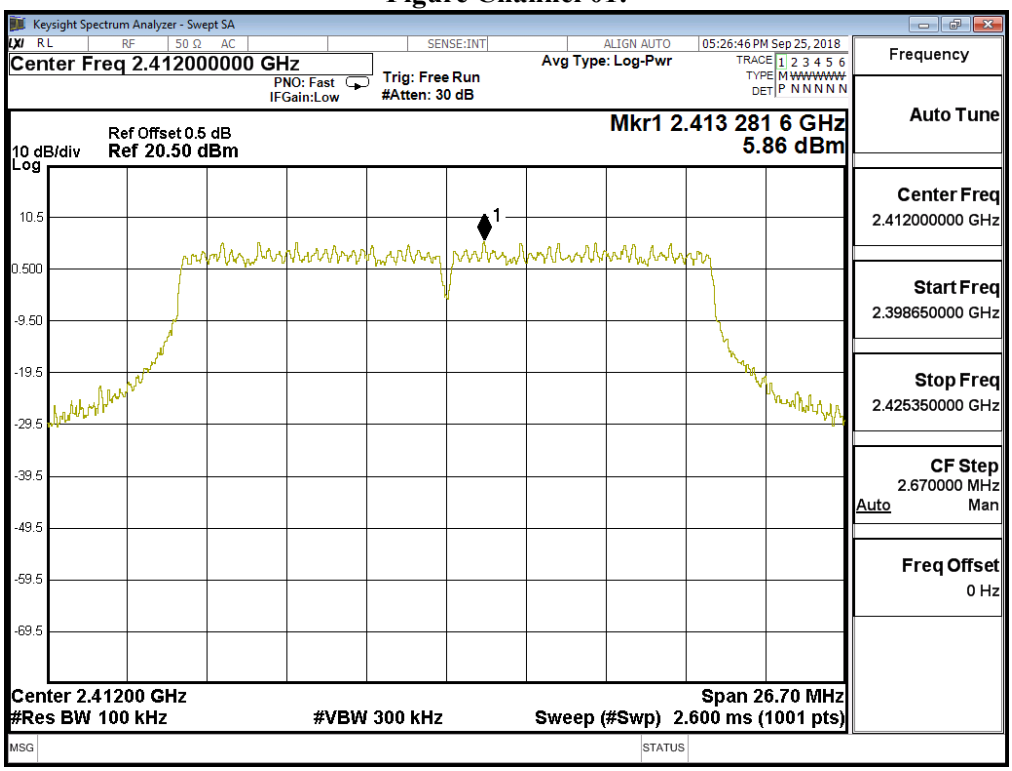


Figure Channel 07:

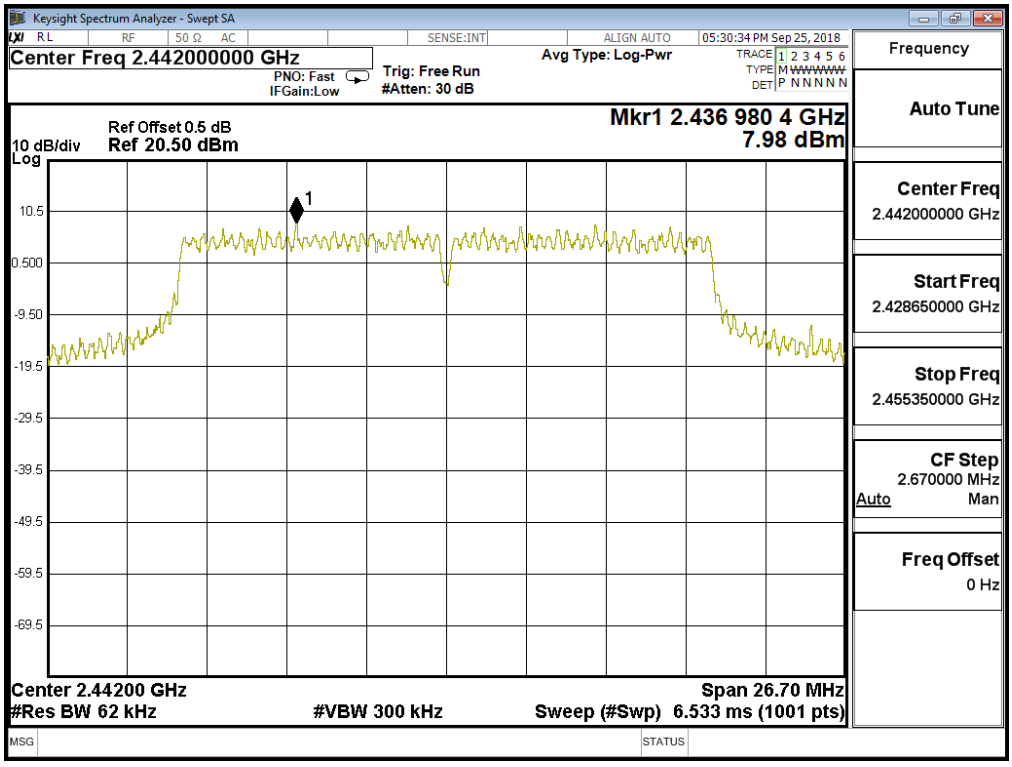


Figure Channel 11:

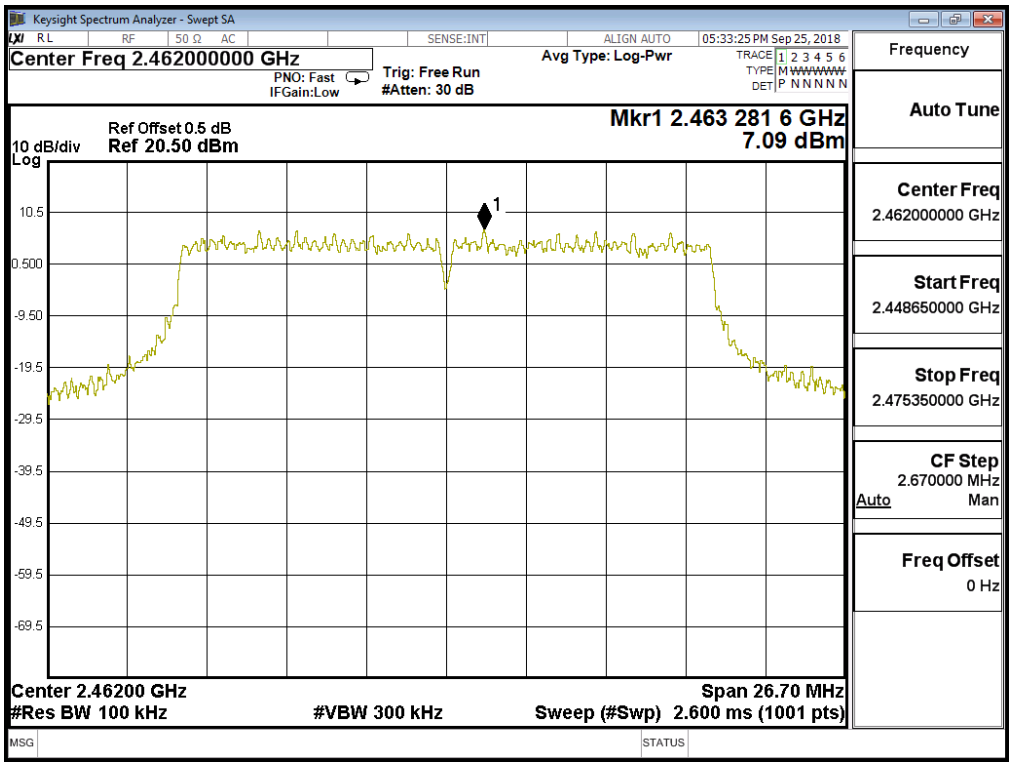


Figure Channel 12:

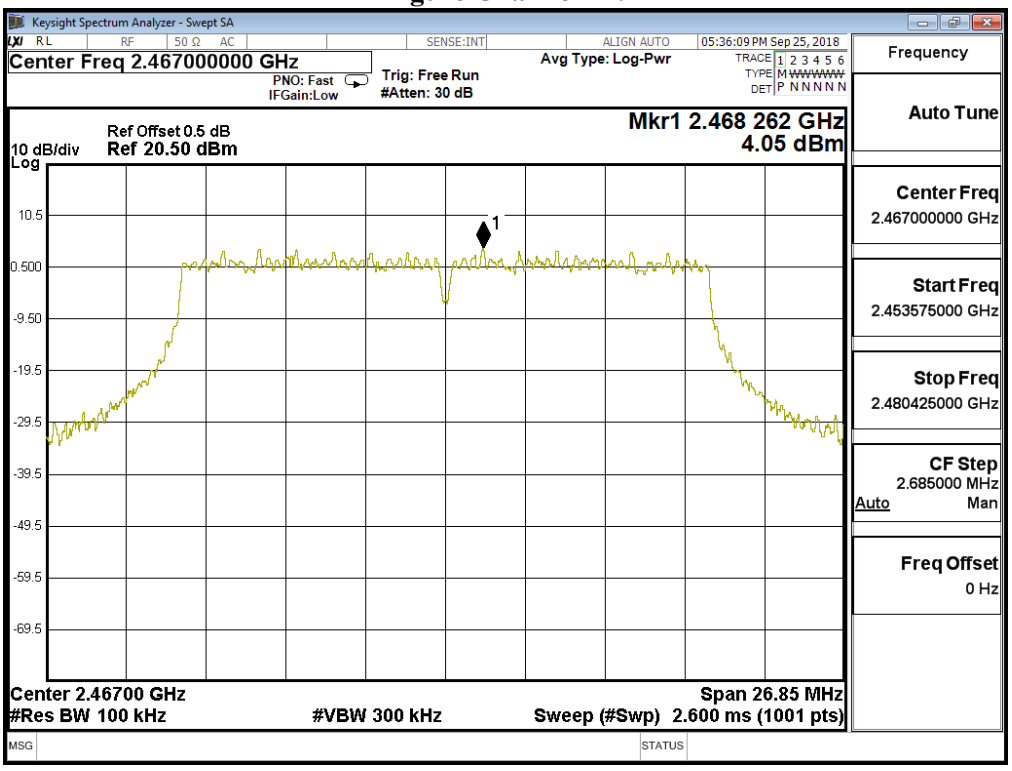
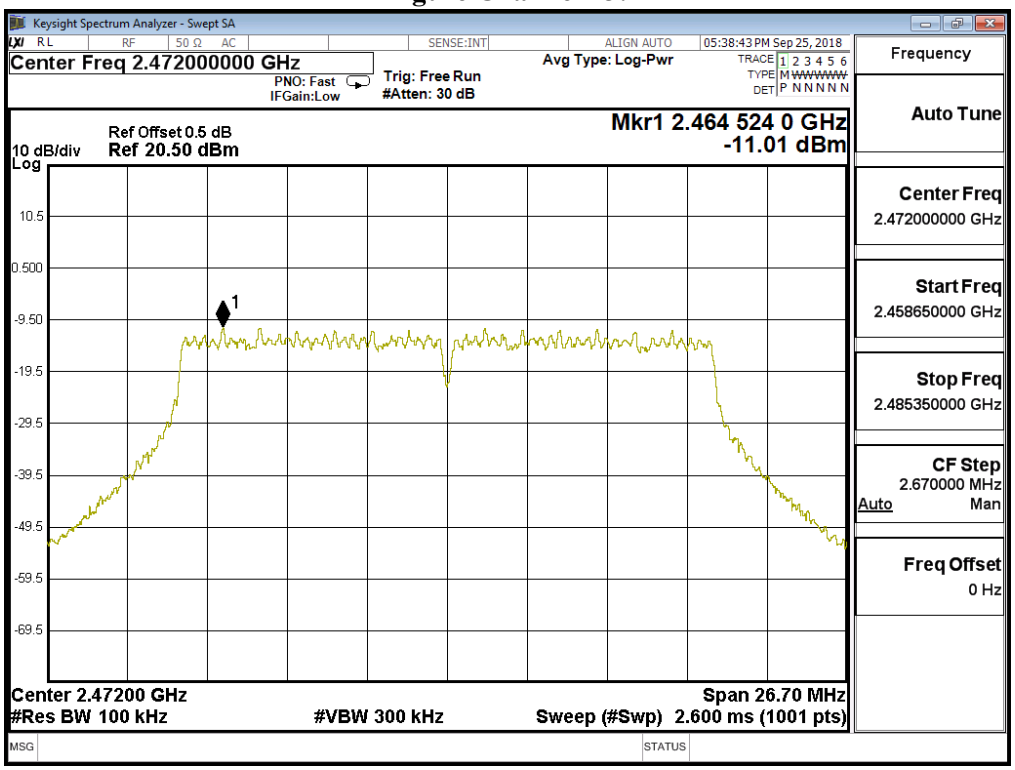


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 10: SISO B: 發射器 802.11n (40MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.30	≦8dBm	Pass
07	2442	2.86	≦8dBm	Pass
09	2452	2.02	≦8dBm	Pass
10	2457	-1.76	≦8dBm	Pass
11	2462	-9.37	≦8dBm	Pass

Figure Channel 03:

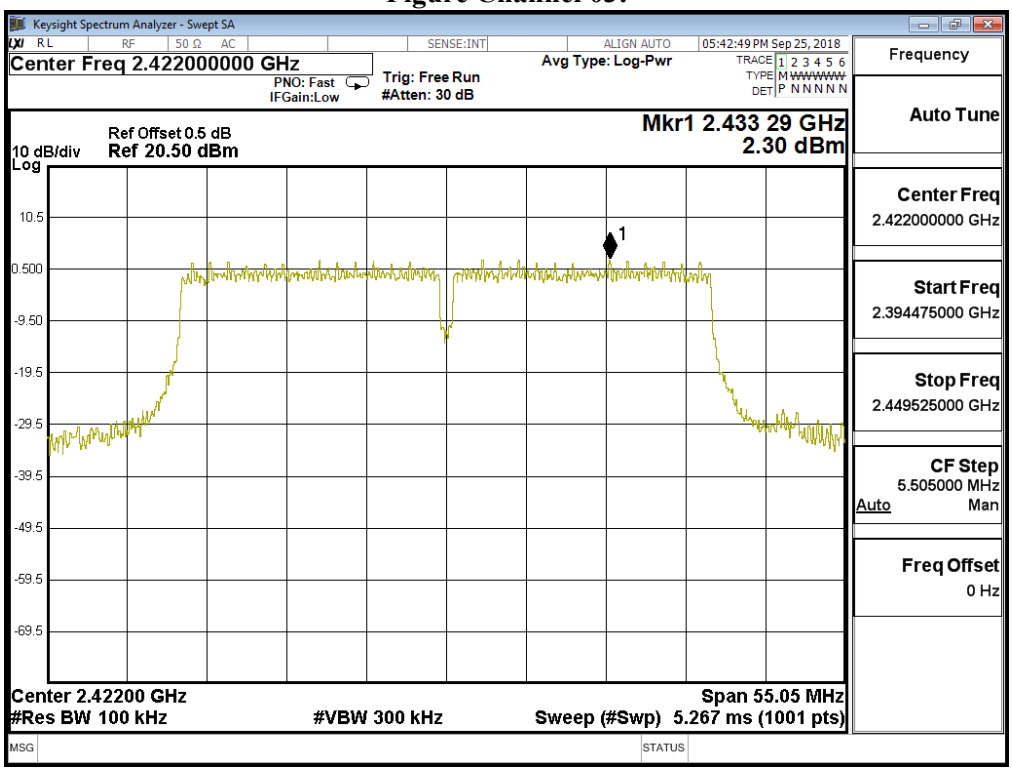


Figure Channel 07:

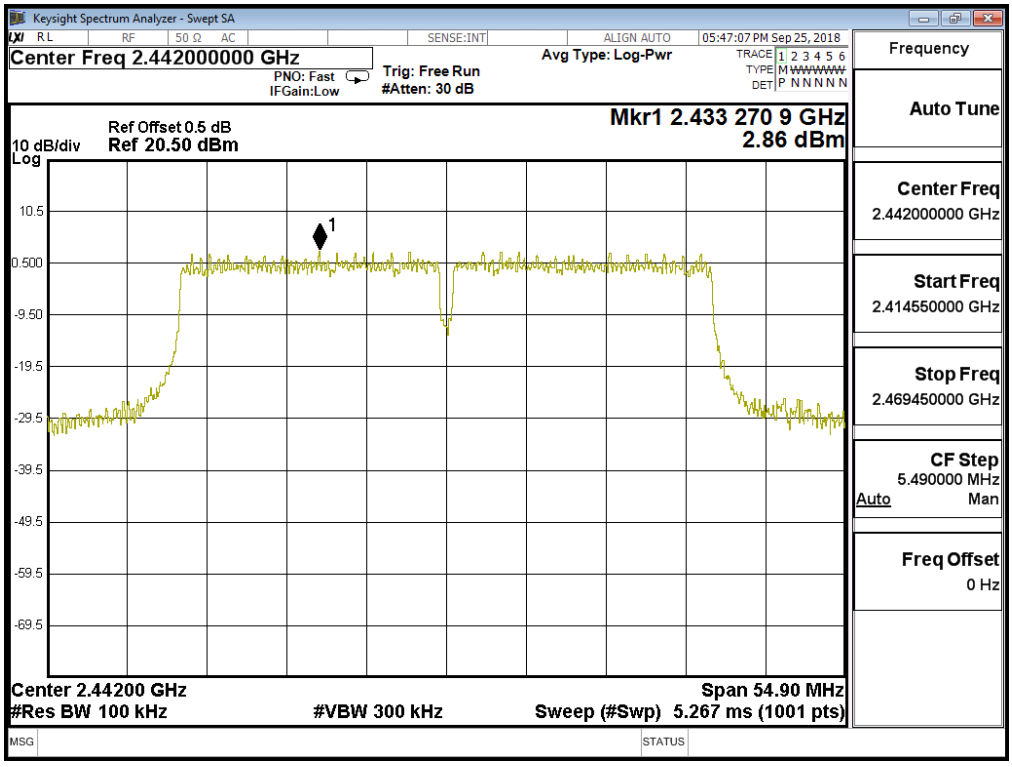


Figure Channel 09:

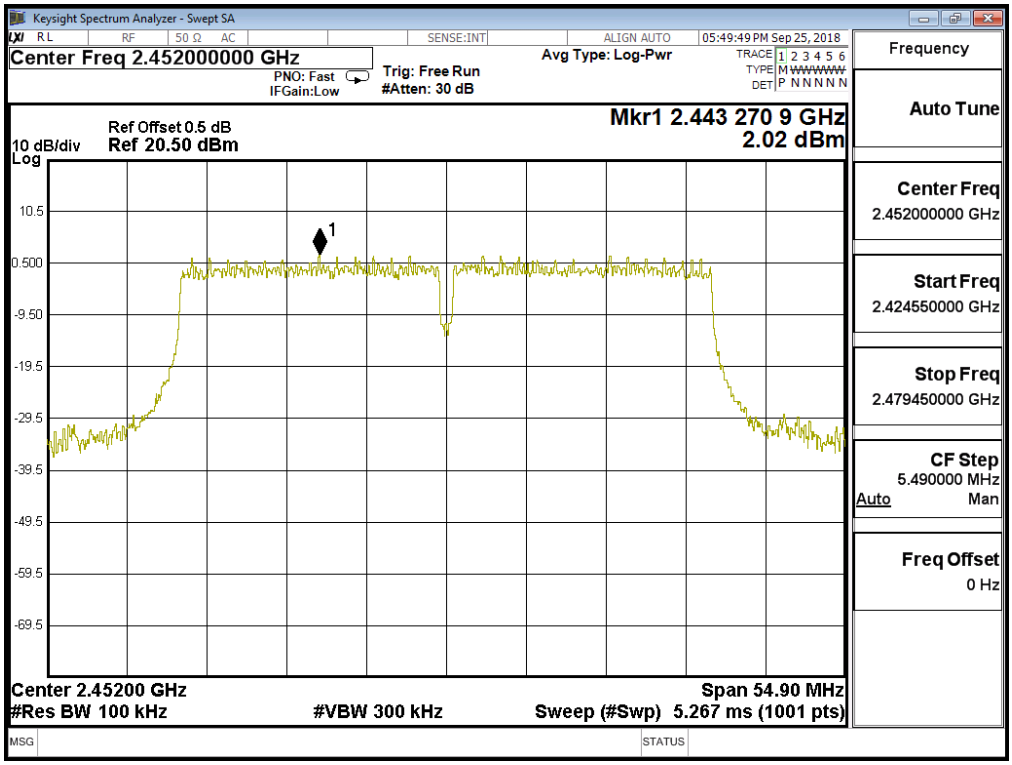


Figure Channel 10:

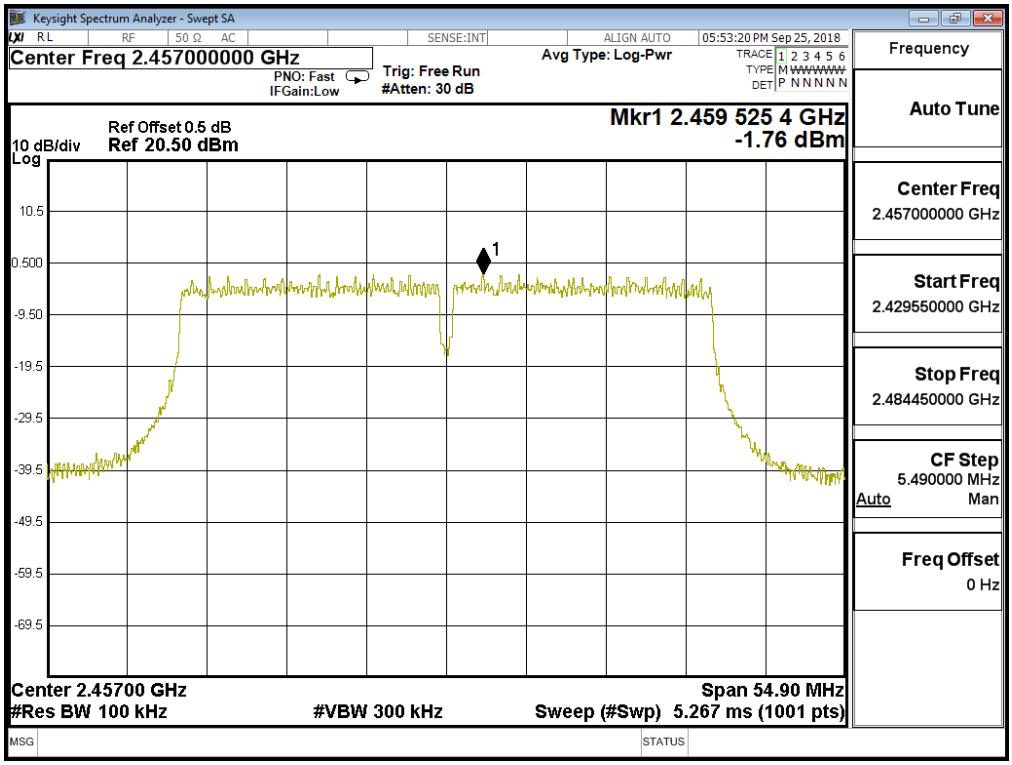
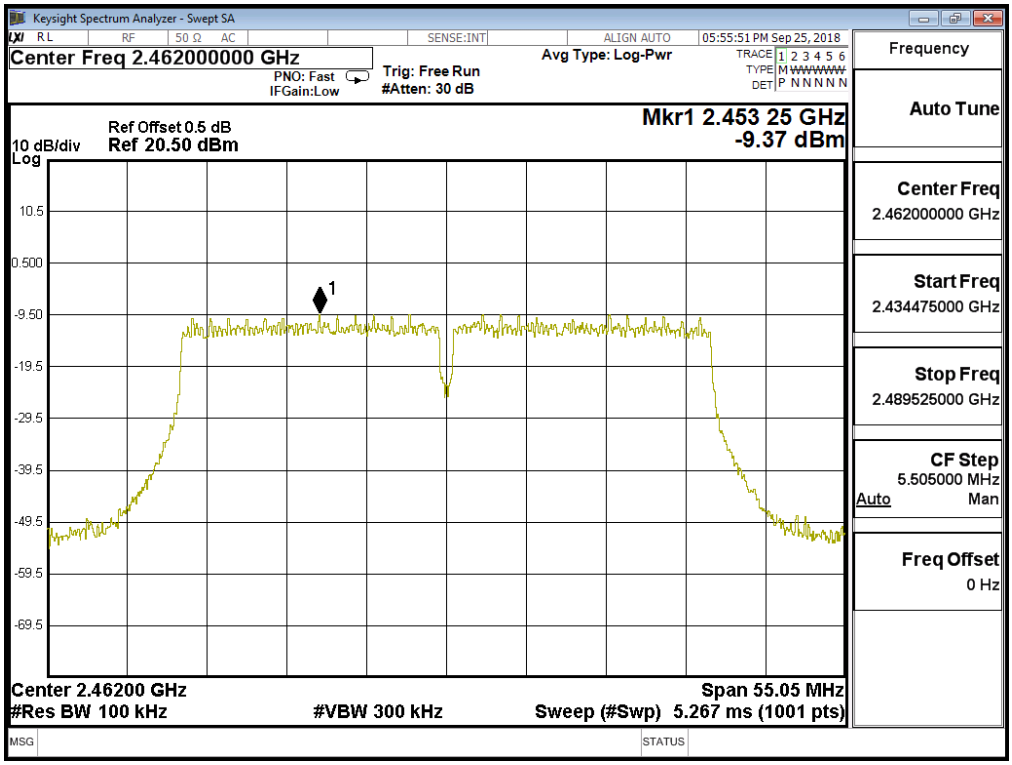


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 13: MIMO: 發射器 802.11n (20MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
01	2412.000	A	2.840	3.010	5.850	≦8dBm	Pass
		B	2.630	3.010	5.640	≦8dBm	Pass
07	2442.000	A	4.630	3.010	7.640	≦8dBm	Pass
		B	4.620	3.010	7.630	≦8dBm	Pass
11	2462.000	A	3.940	3.010	6.950	≦8dBm	Pass
		B	3.940	3.010	6.950	≦8dBm	Pass
12	2467.00	A	1.200	3.010	4.210	≦8dBm	Pass
		B	0.900	3.010	3.910	≦8dBm	Pass
13	2472.00	A	-13.750	3.010	-10.740	≦8dBm	Pass
		B	-13.010	3.010	-10.000	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 01: (Chain A)

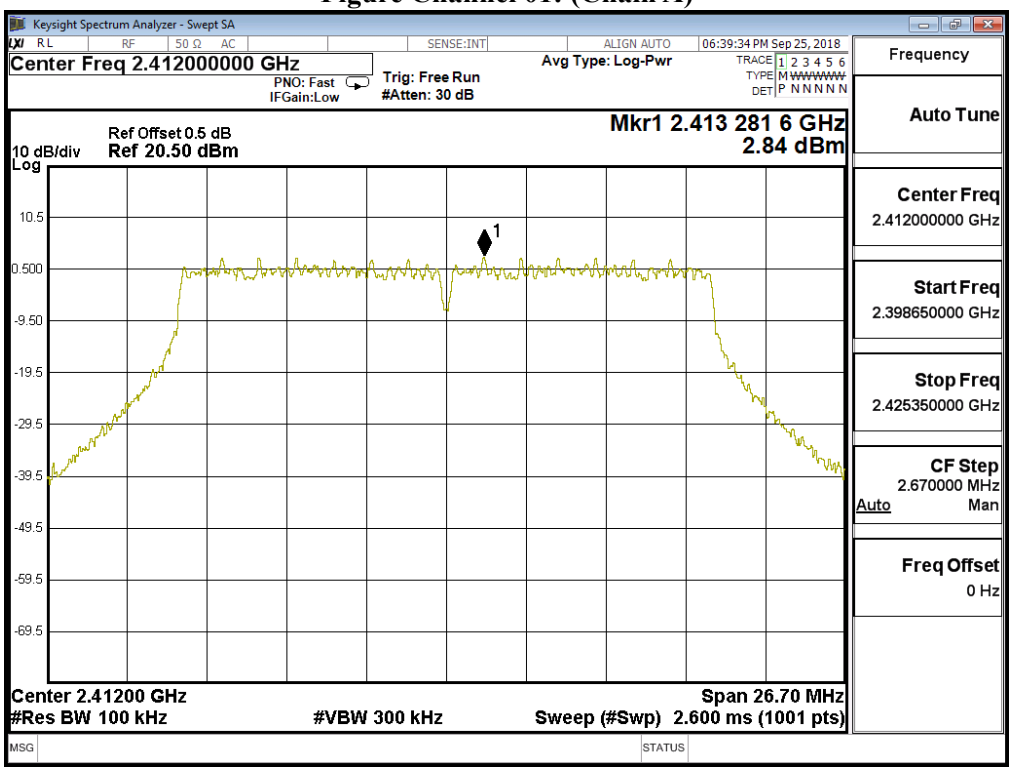


Figure Channel 01: (Chain B)

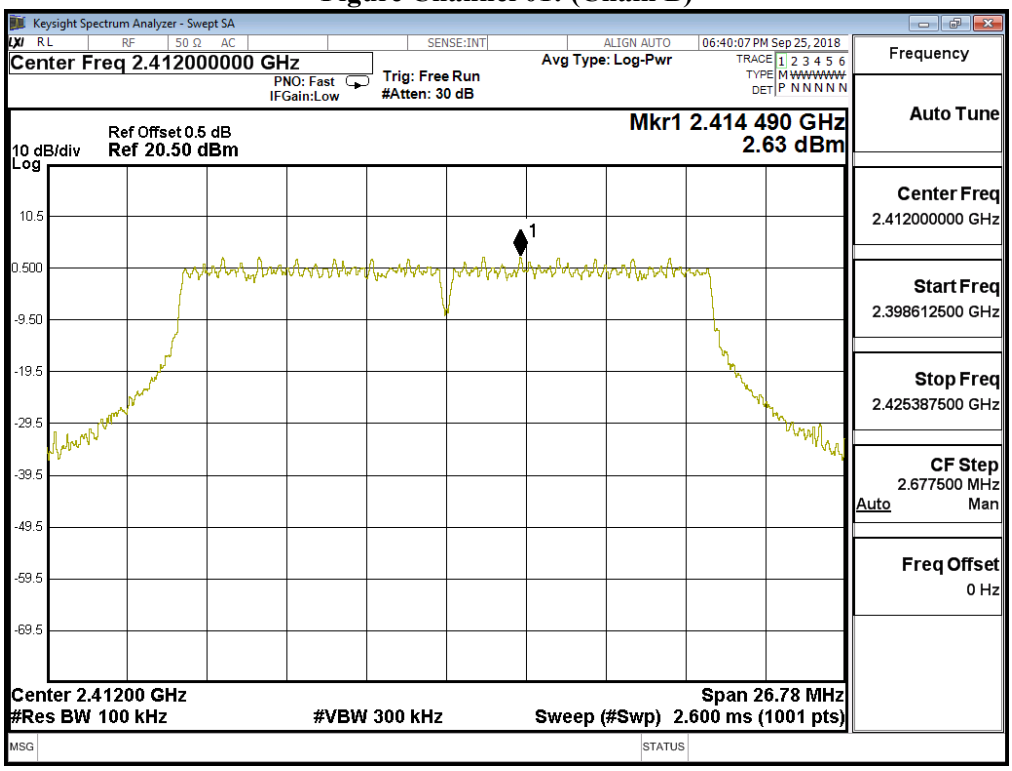


Figure Channel 07: (Chain A)

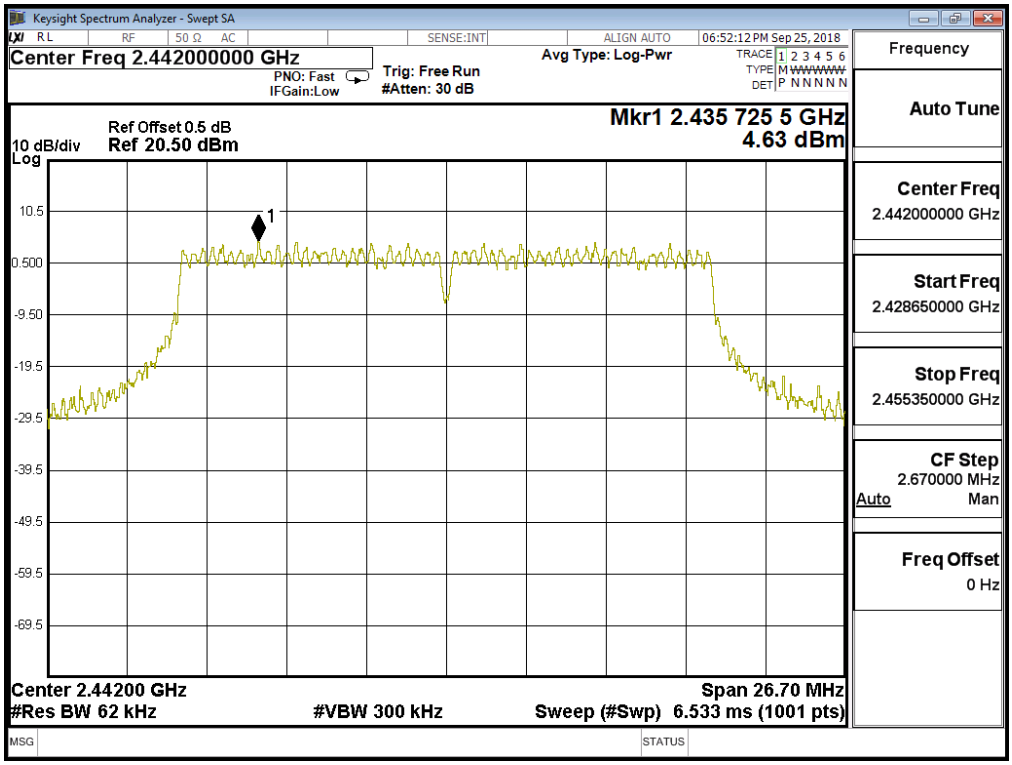


Figure Channel 07: (Chain B)

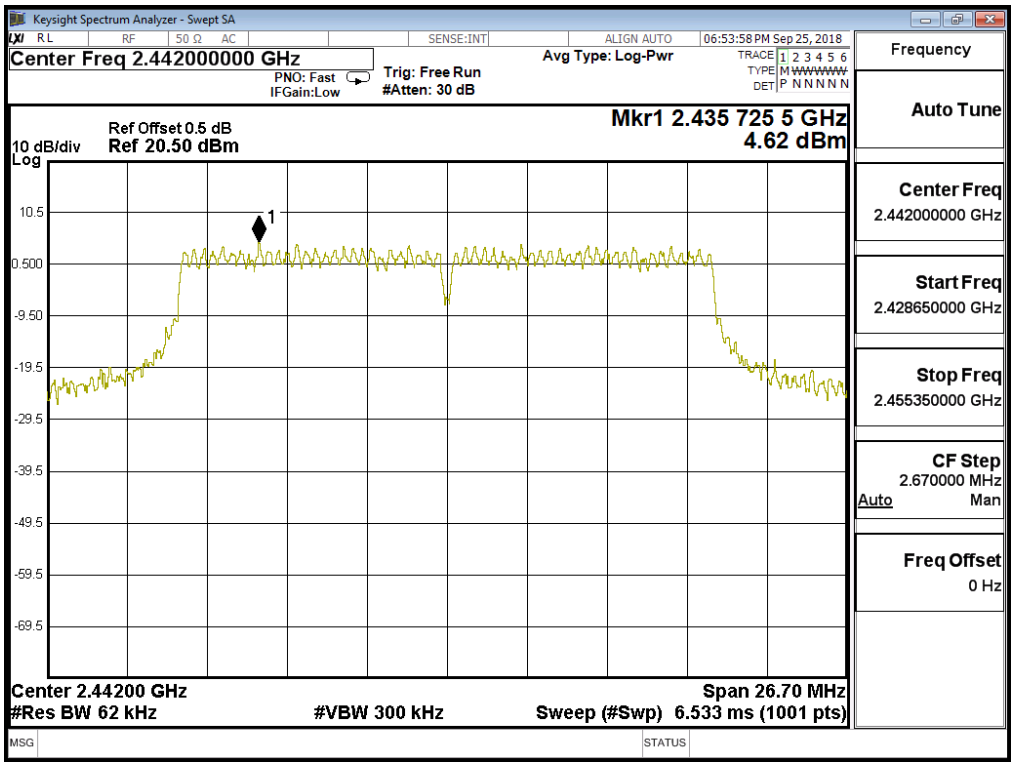


Figure Channel 11: (Chain A)

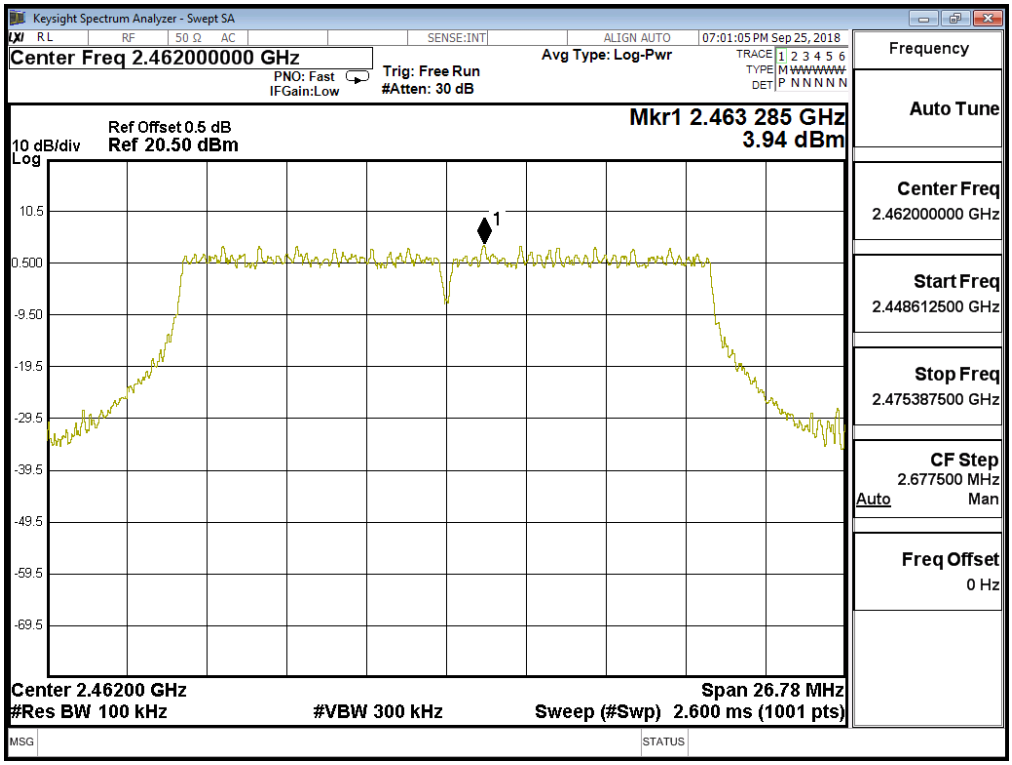


Figure Channel 11: (Chain B)

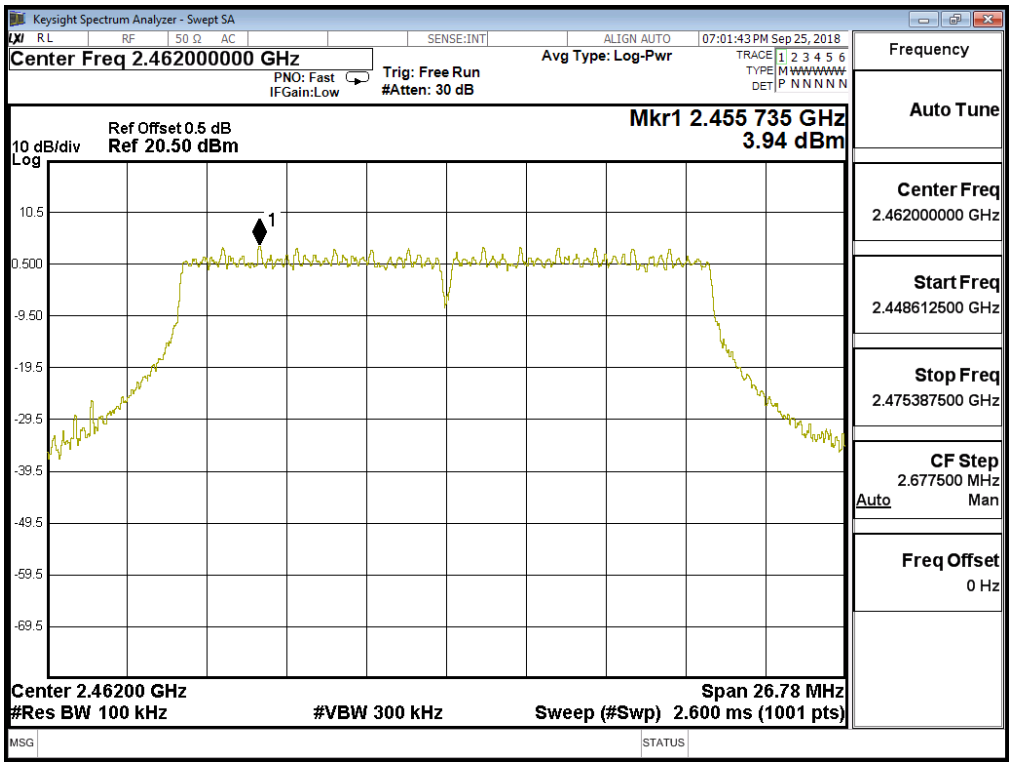


Figure Channel 12: (Chain A)

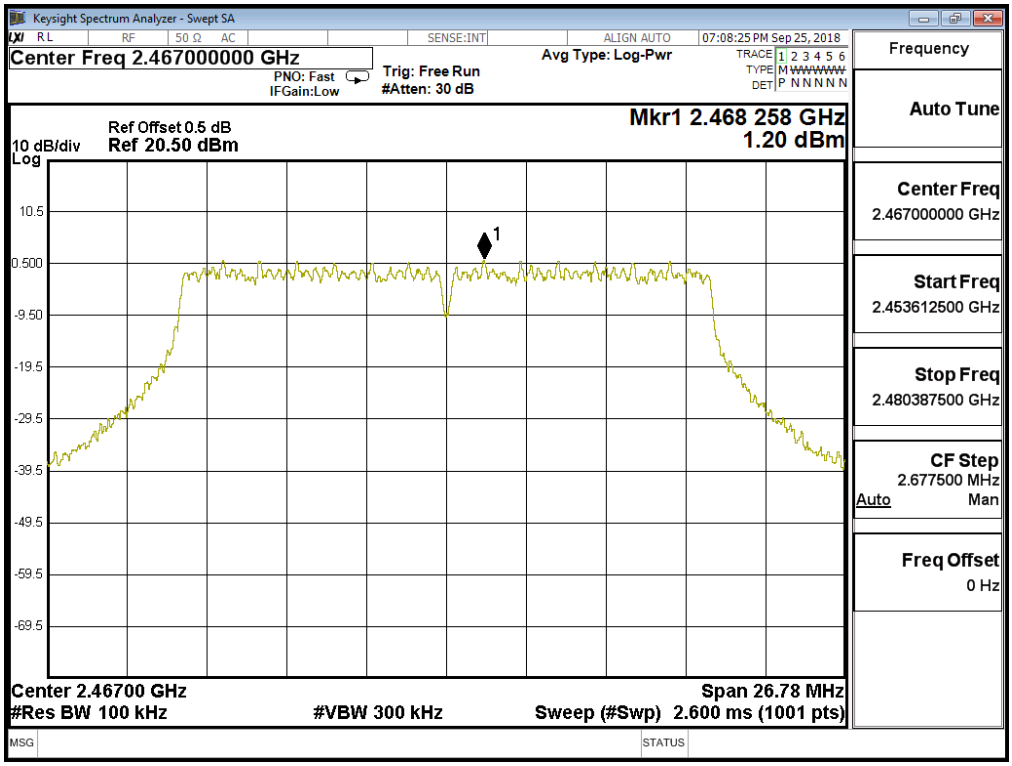


Figure Channel 12: (Chain B)

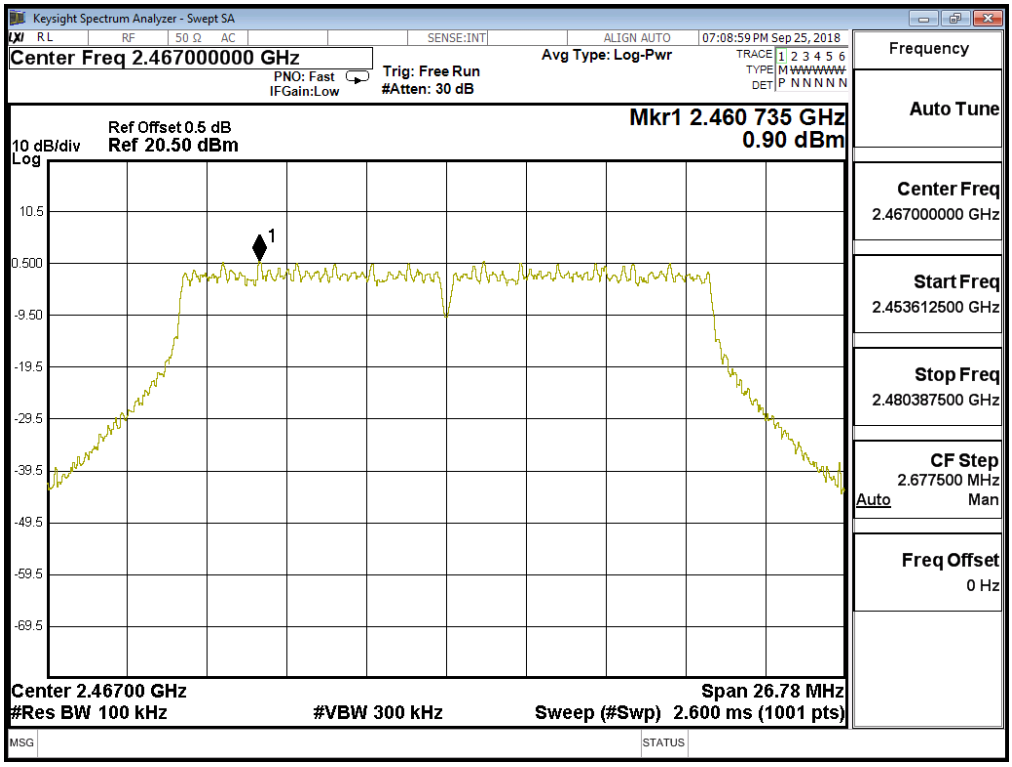


Figure Channel 13: (Chain A)

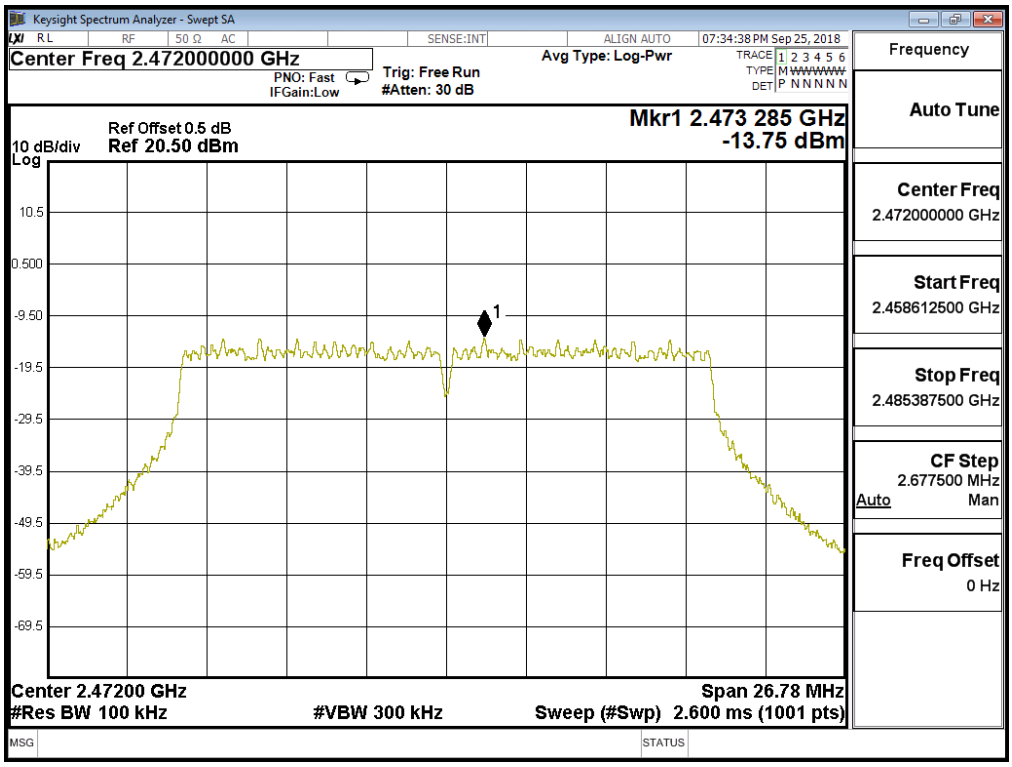
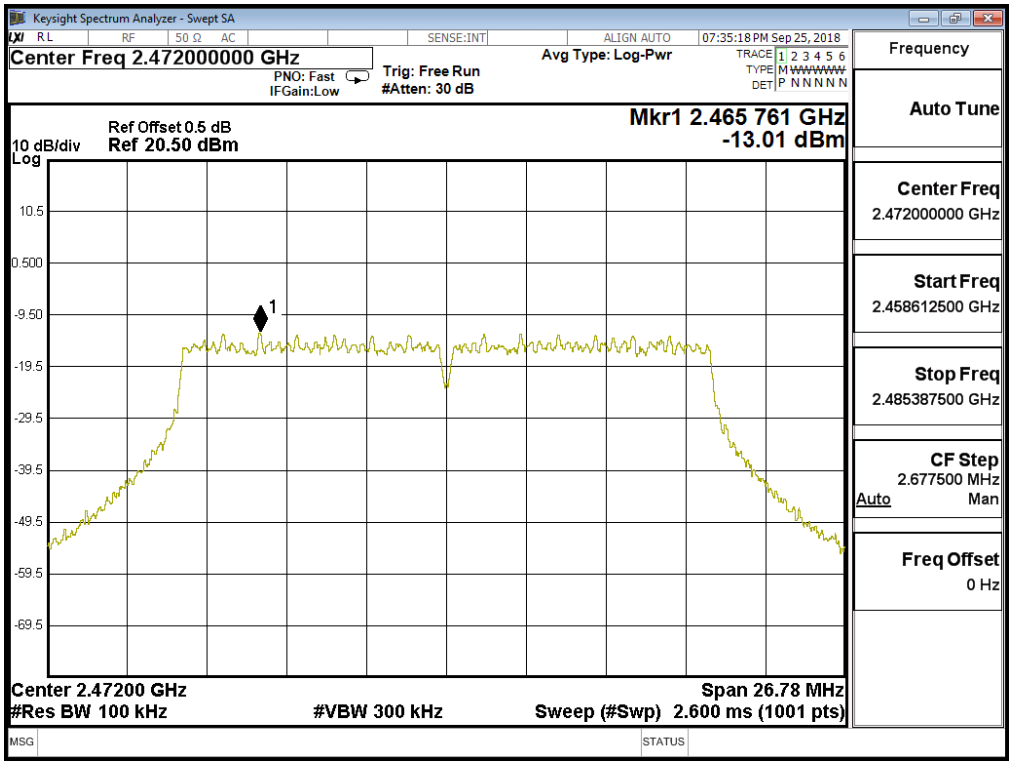


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 14: MIMO: 發射器 802.11n (40MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
03	2422.000	A	-0.520	3.010	2.490	≦8dBm	Pass
		B	0.030	3.010	3.040	≦8dBm	Pass
07	2442.000	A	1.230	3.010	4.240	≦8dBm	Pass
		B	-0.370	3.010	2.640	≦8dBm	Pass
09	2452.000	A	0.450	3.010	3.460	≦8dBm	Pass
		B	-1.140	3.010	1.870	≦8dBm	Pass
10	2457.00	A	-4.480	3.010	-1.470	≦8dBm	Pass
		B	-4.590	3.010	-1.580	≦8dBm	Pass
11	2462.00	A	-12.020	3.010	-9.010	≦8dBm	Pass
		B	-13.690	3.010	-10.680	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 03: (Chain A)

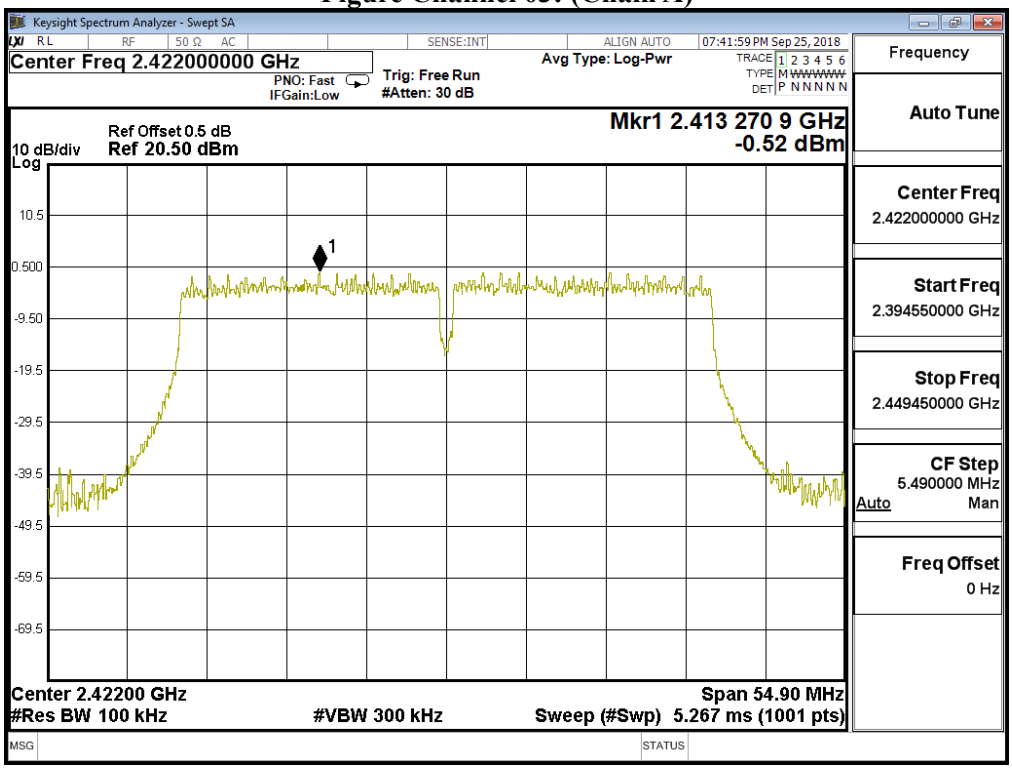


Figure Channel 03: (Chain B)

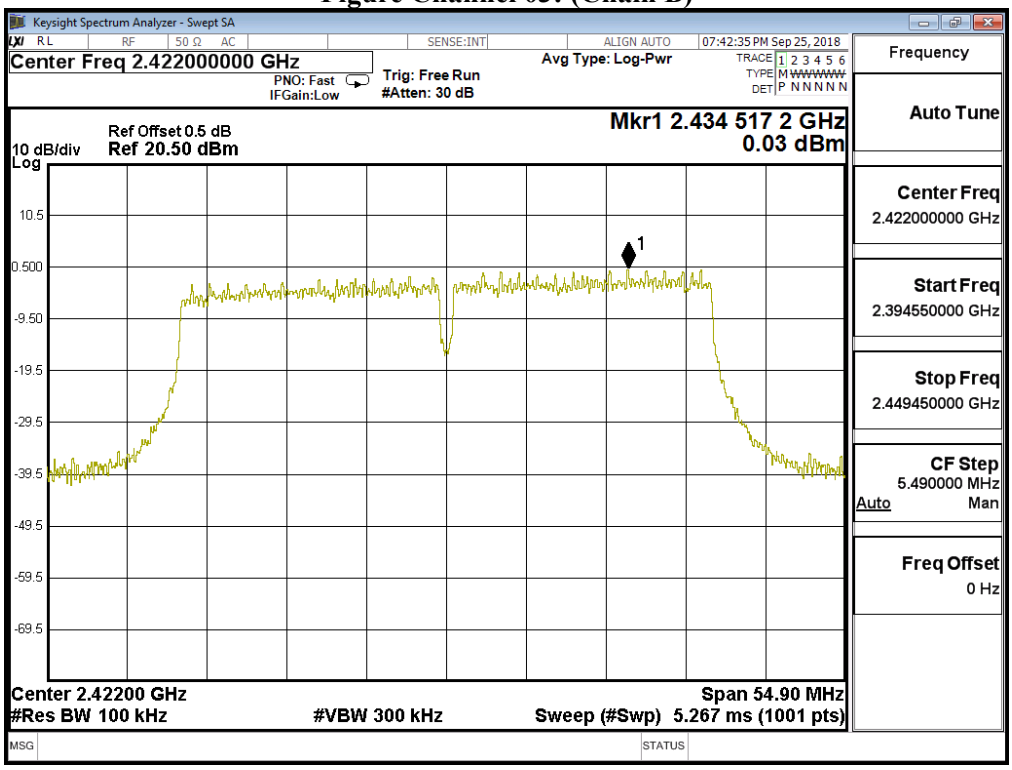


Figure Channel 07: (Chain A)

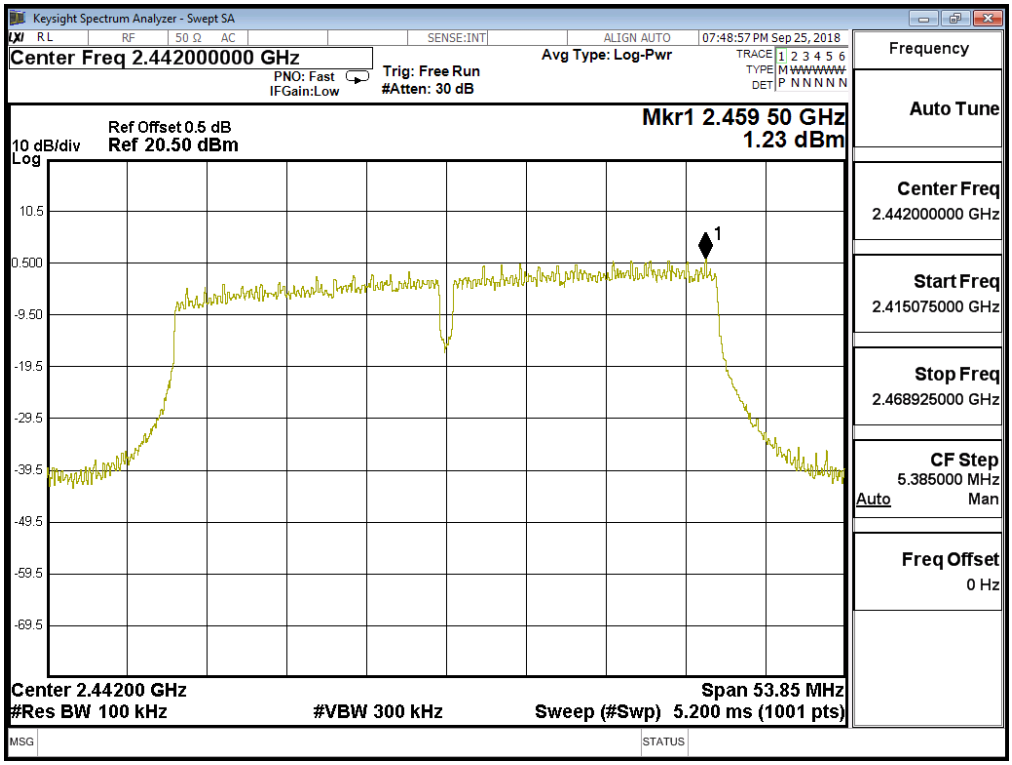


Figure Channel 07: (Chain B)

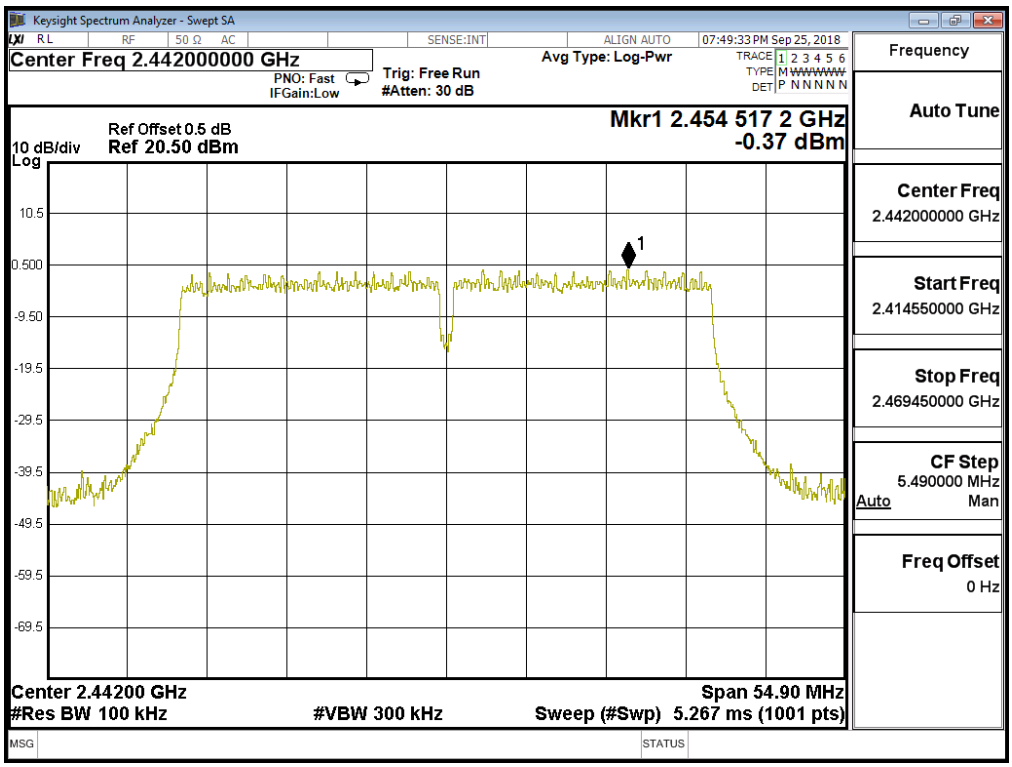


Figure Channel 09: (Chain A)

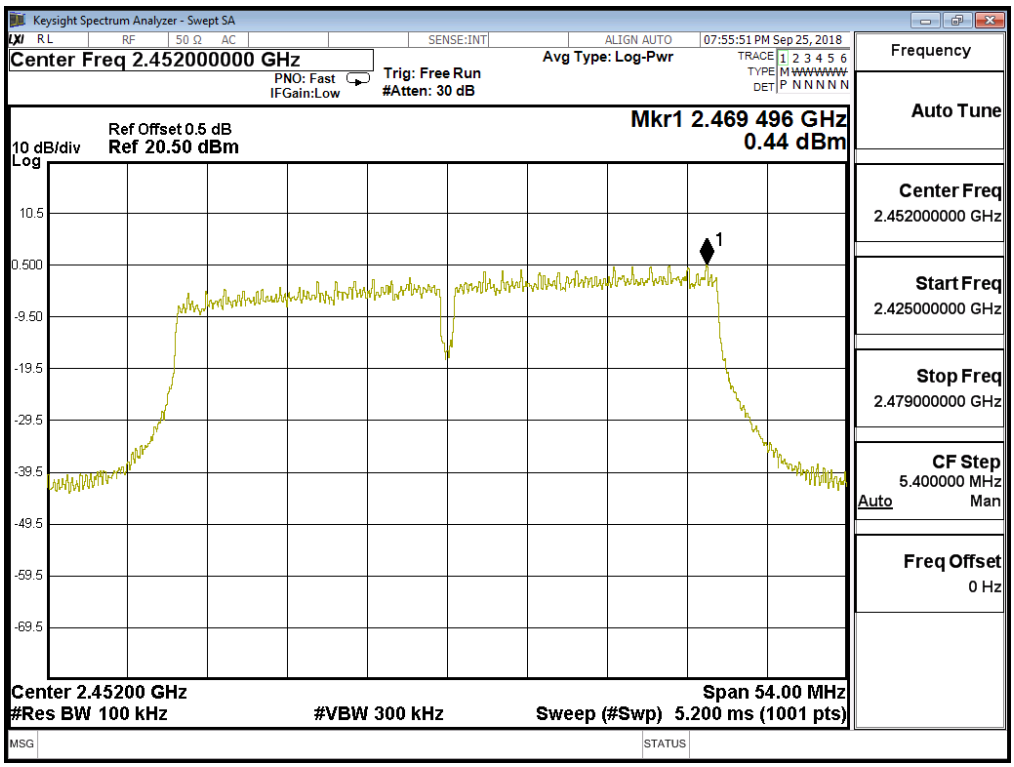


Figure Channel 09: (Chain B)

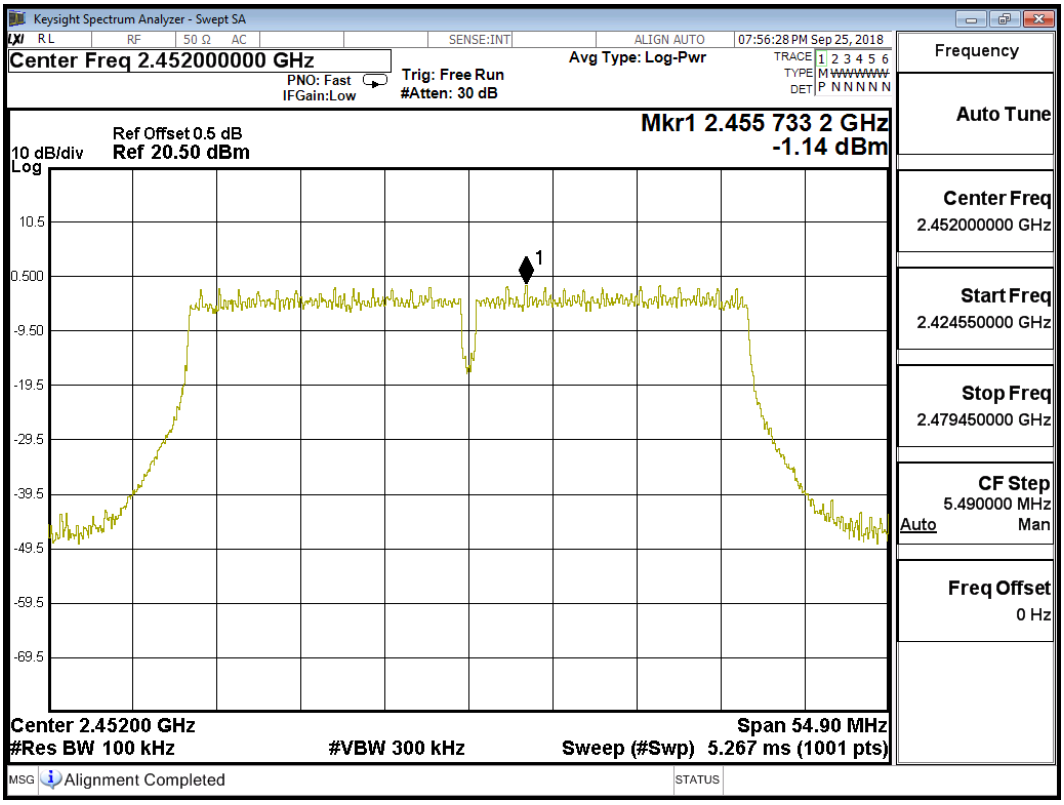


Figure Channel 10: (Chain A)

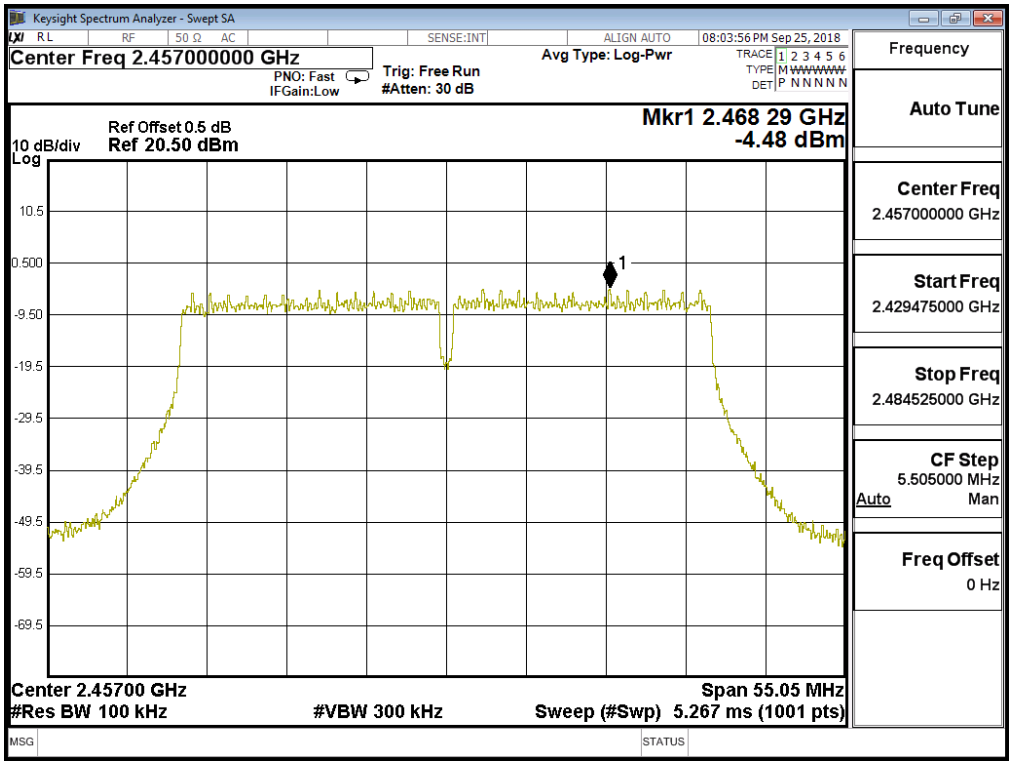


Figure Channel 10: (Chain B)

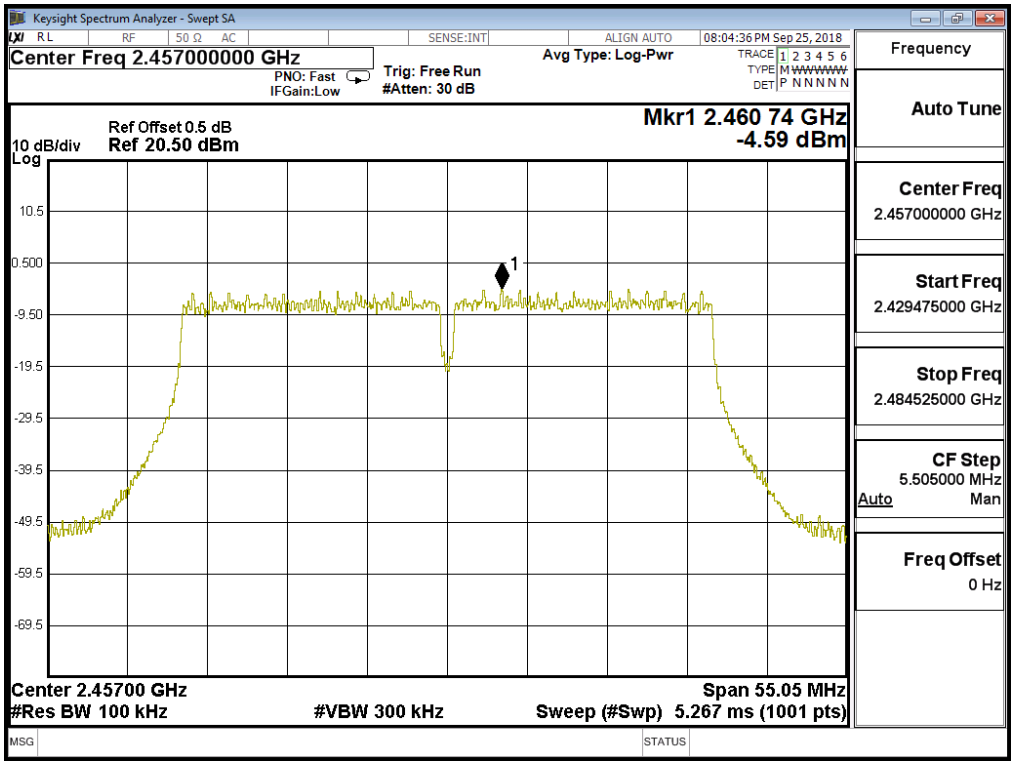


Figure Channel 11: (Chain A)

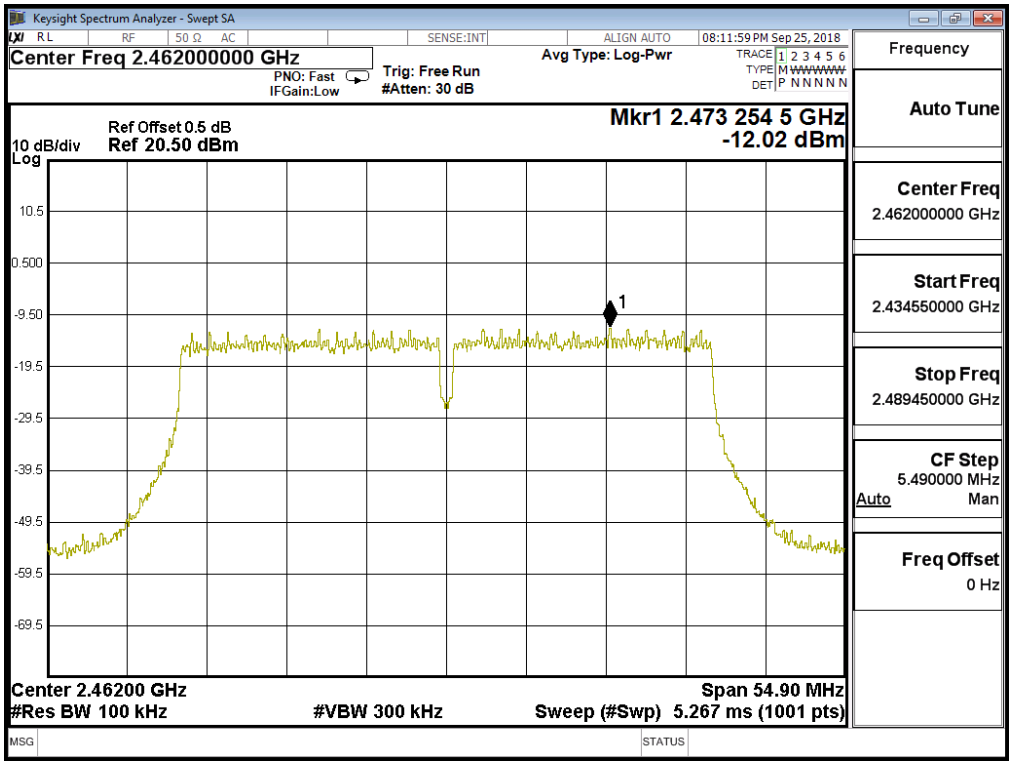
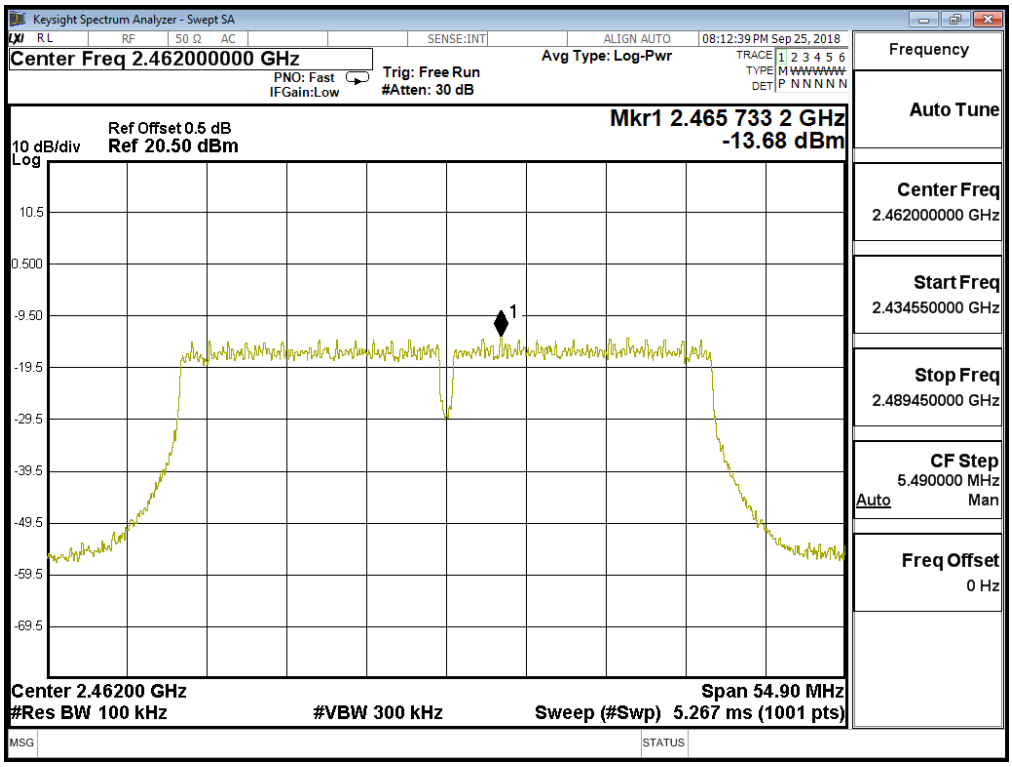


Figure Channel 11: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：- -　　測試模式：Mode 5: SISO A: 發射器 802.11ax (20MHz)
量測天線：- -　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.55	≦8dBm	Pass
07	2442	7.86	≦8dBm	Pass
11	2462	6.91	≦8dBm	Pass
12	2467	3.68	≦8dBm	Pass
13	2472	-10.99	≦8dBm	Pass

Figure Channel 01:

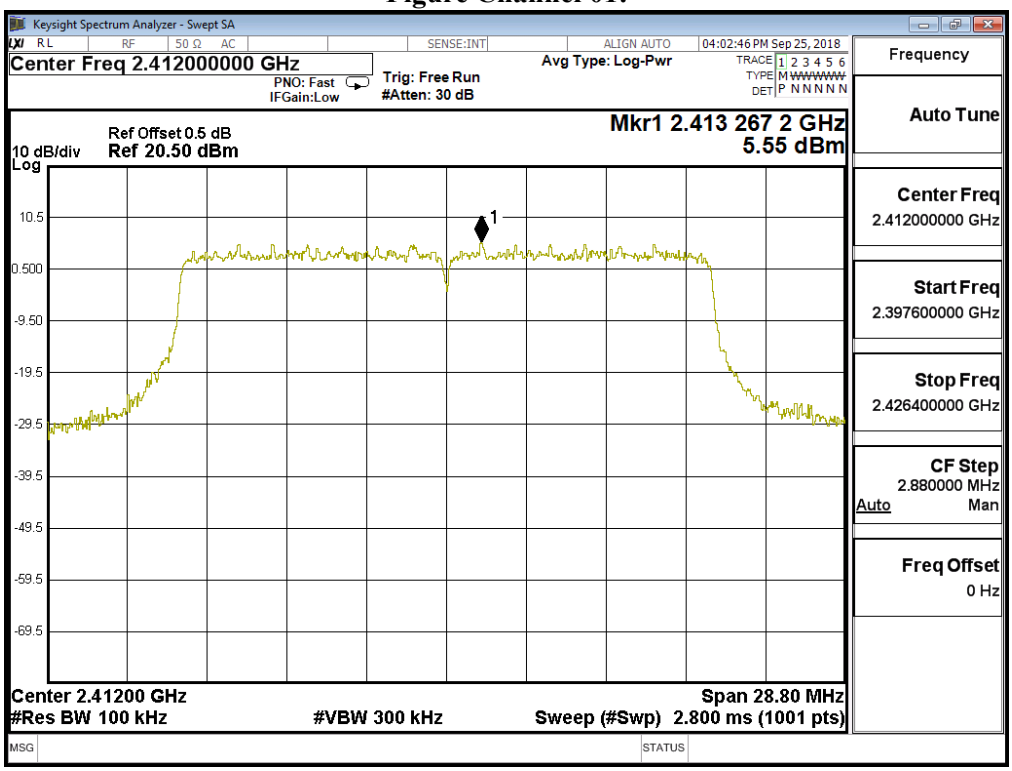


Figure Channel 07:

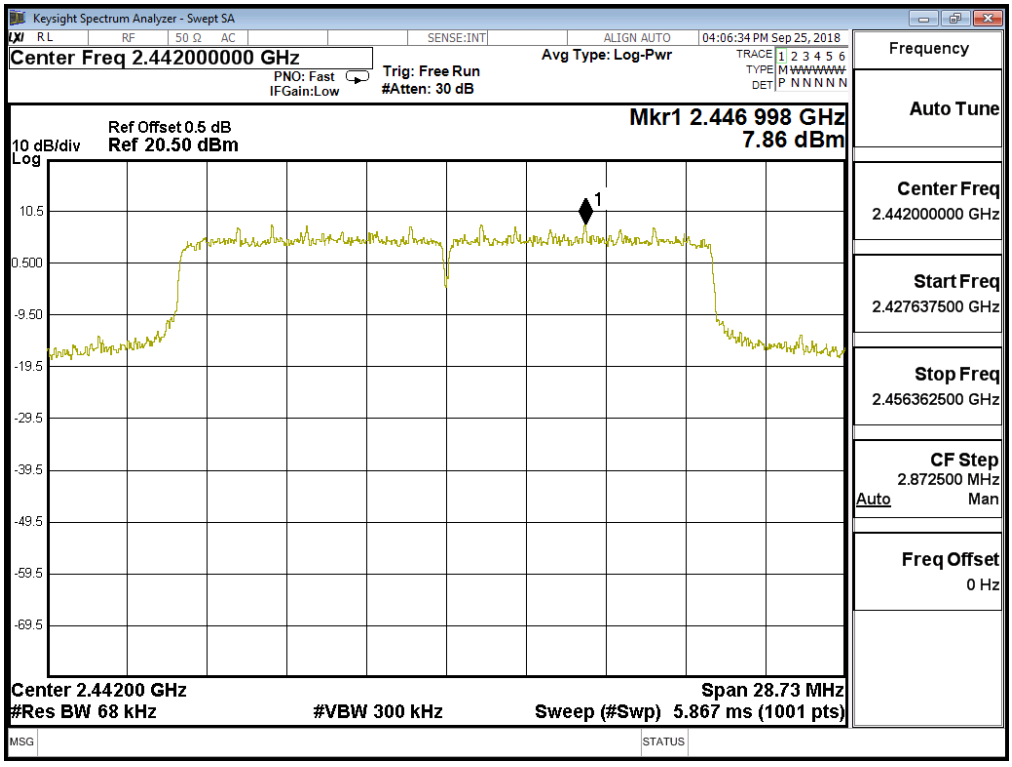


Figure Channel 11:

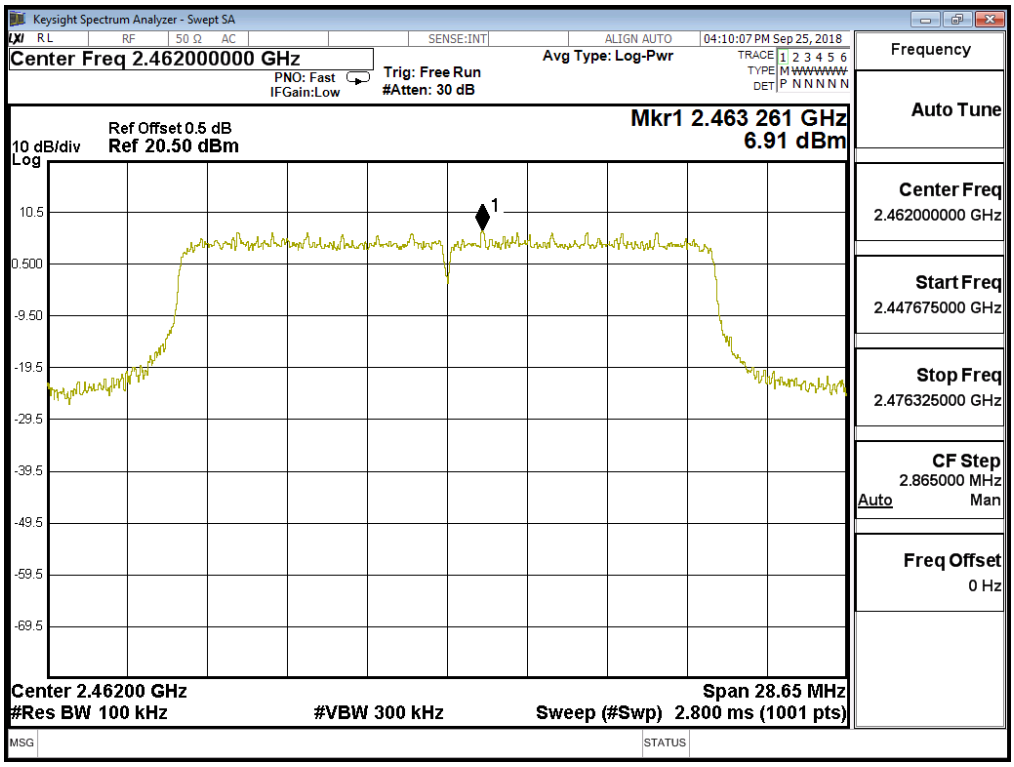


Figure Channel 12:

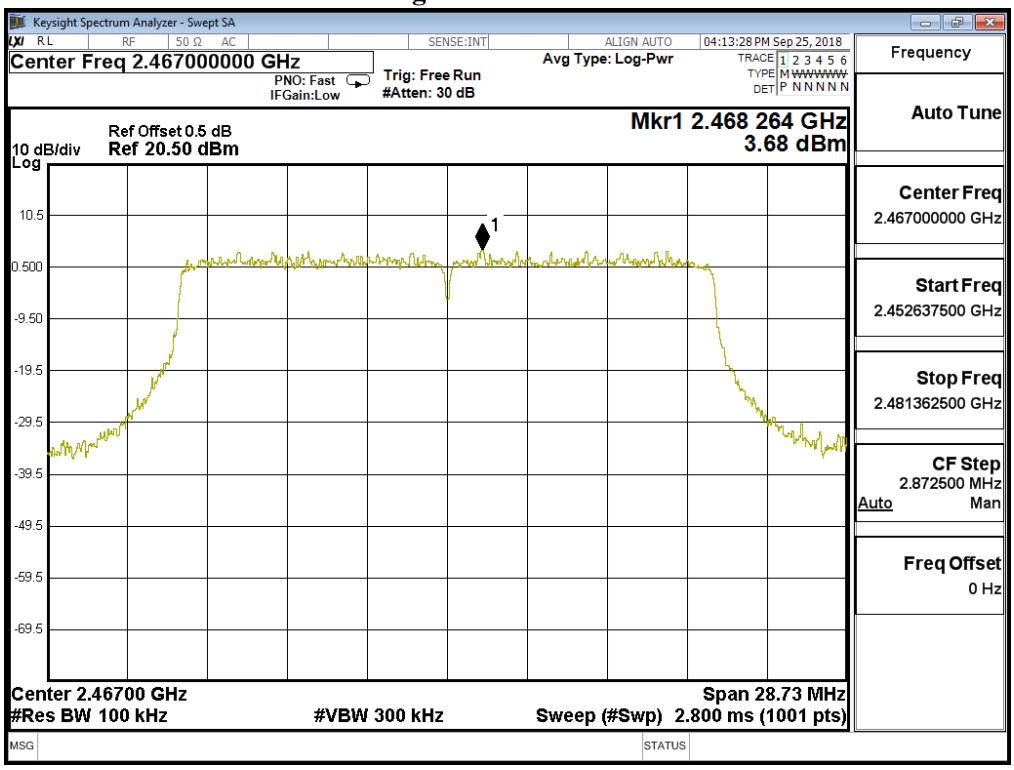
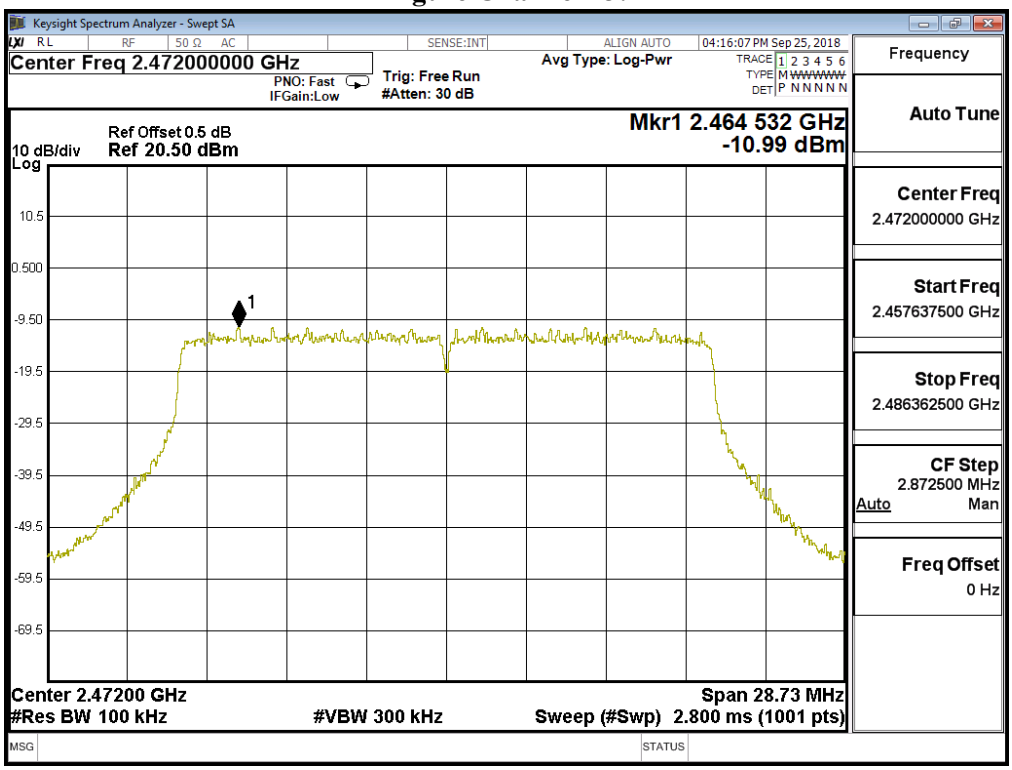


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 6: SISO A: 發射器 802.11ax (40MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.03	≦8dBm	Pass
07	2442	3.17	≦8dBm	Pass
09	2452	1.76	≦8dBm	Pass
10	2457	-1.77	≦8dBm	Pass
11	2462	-9.35	≦8dBm	Pass

Figure Channel 03:

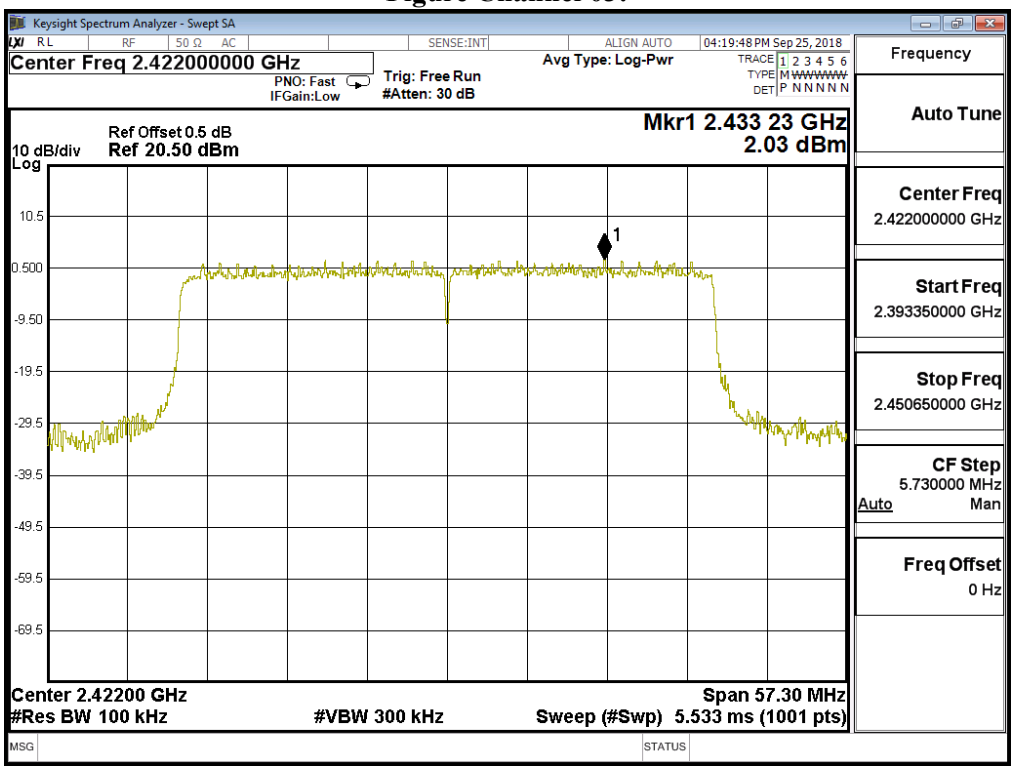


Figure Channel 07:

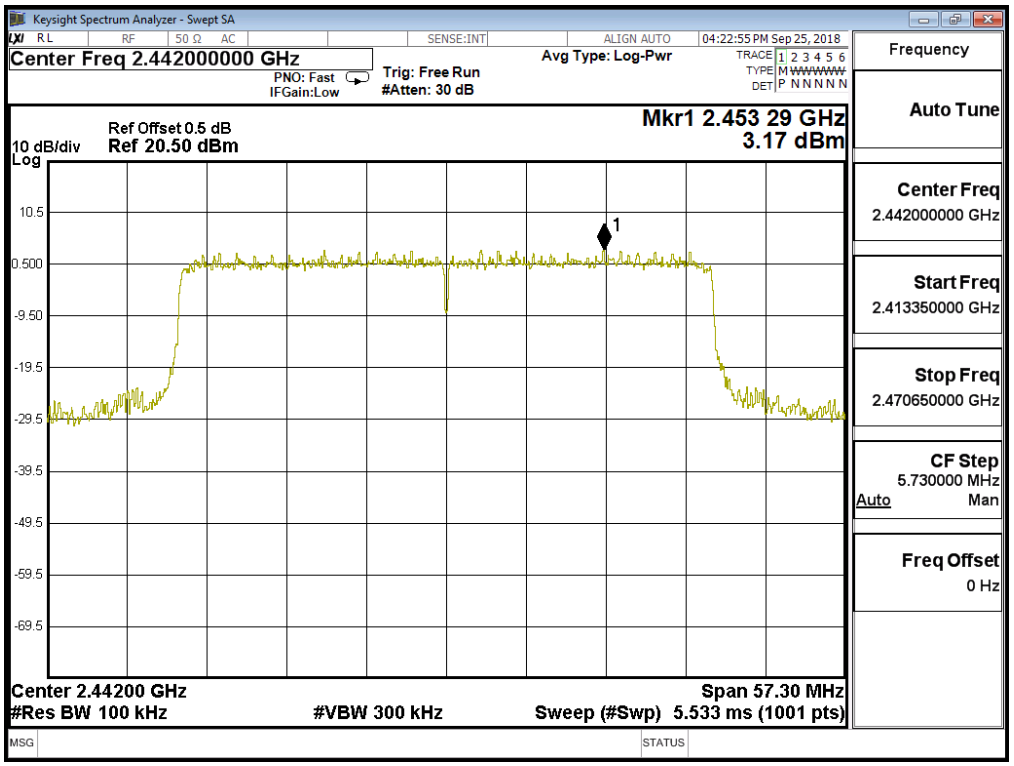


Figure Channel 09:

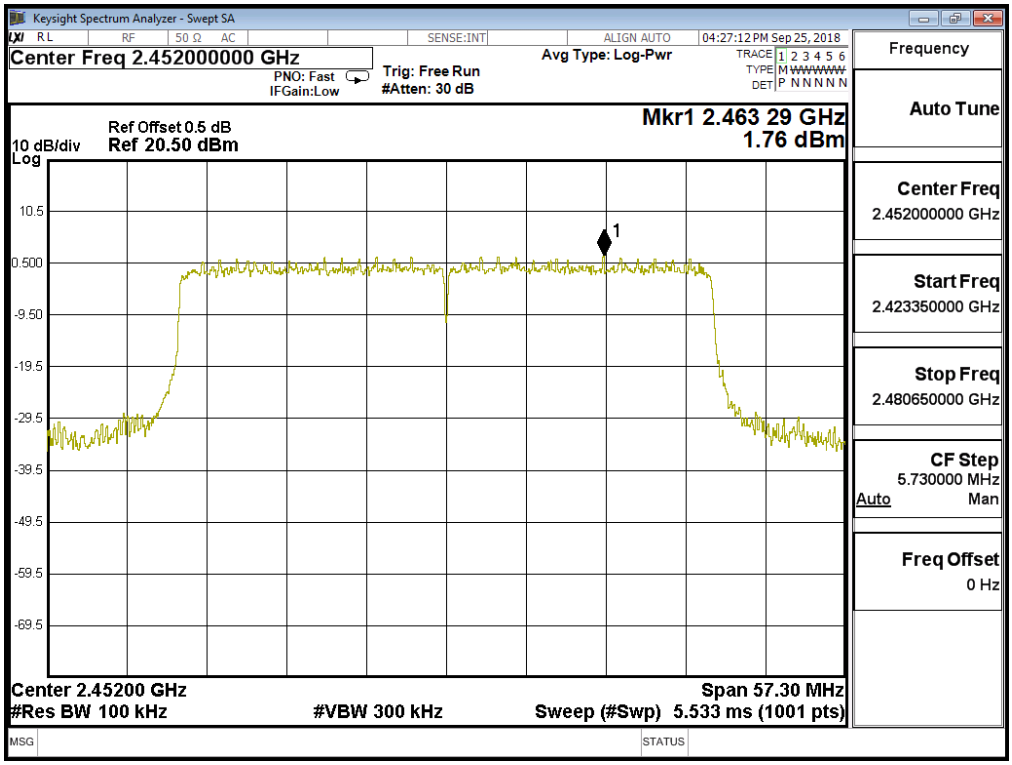


Figure Channel 10:

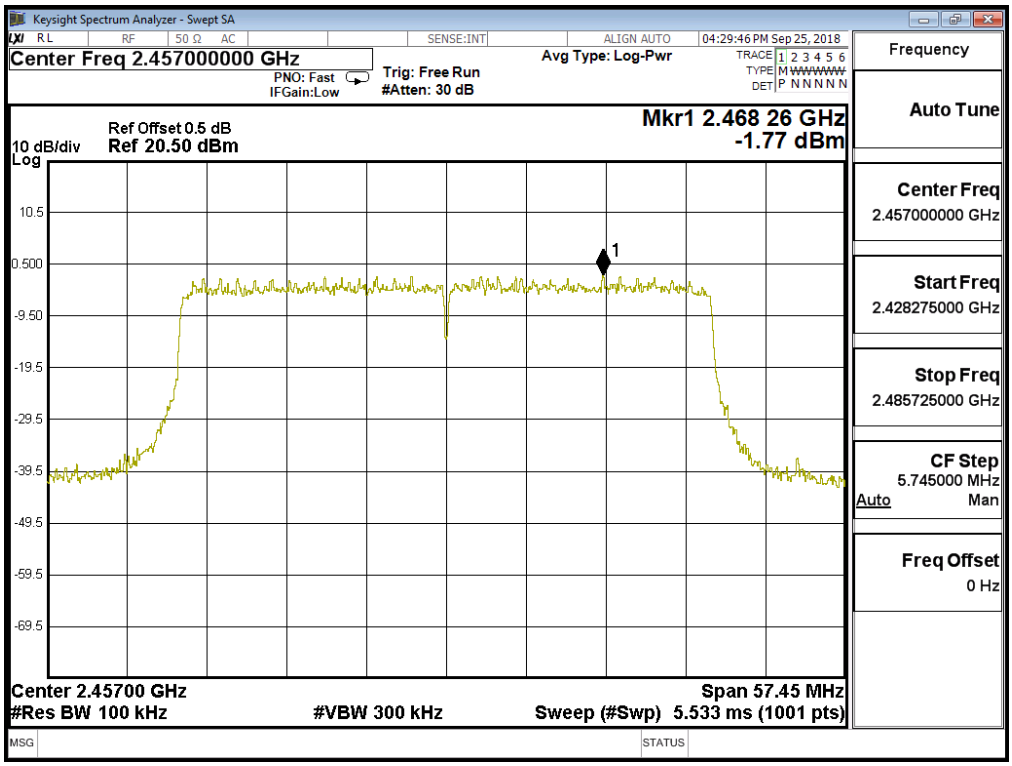
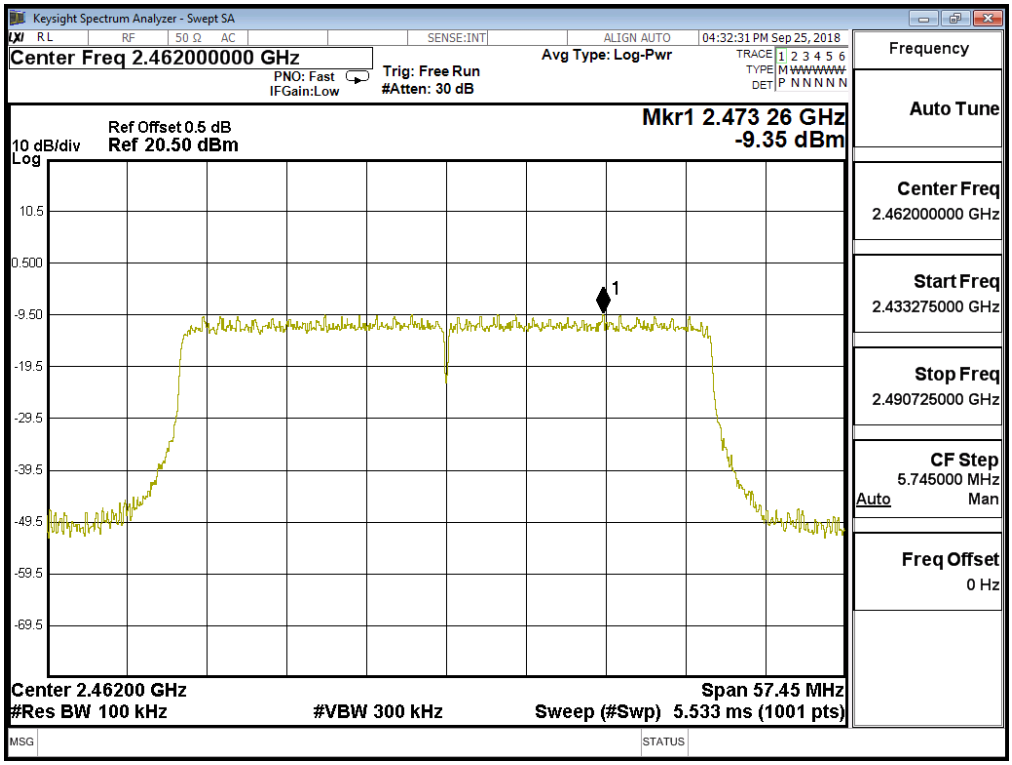


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 11: SISO B: 發射器 802.11ax (20MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.61	≦8dBm	Pass
07	2442	7.68	≦8dBm	Pass
11	2462	6.83	≦8dBm	Pass
12	2467	3.64	≦8dBm	Pass
13	2472	-9.73	≦8dBm	Pass

Figure Channel 01:

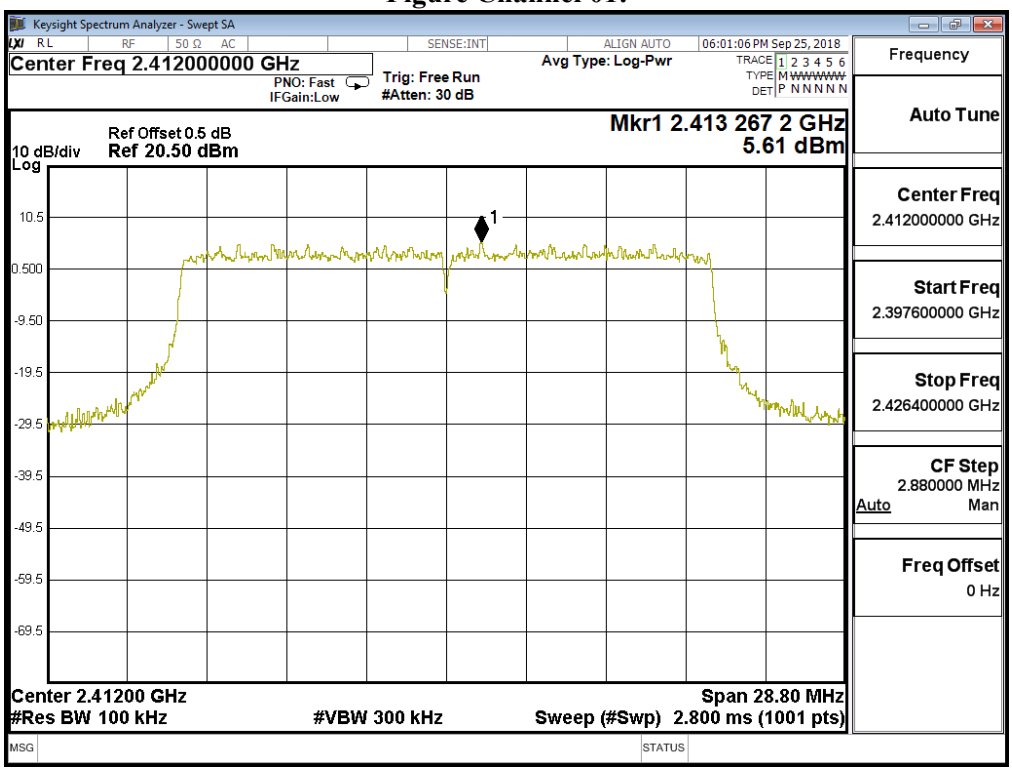


Figure Channel 07:

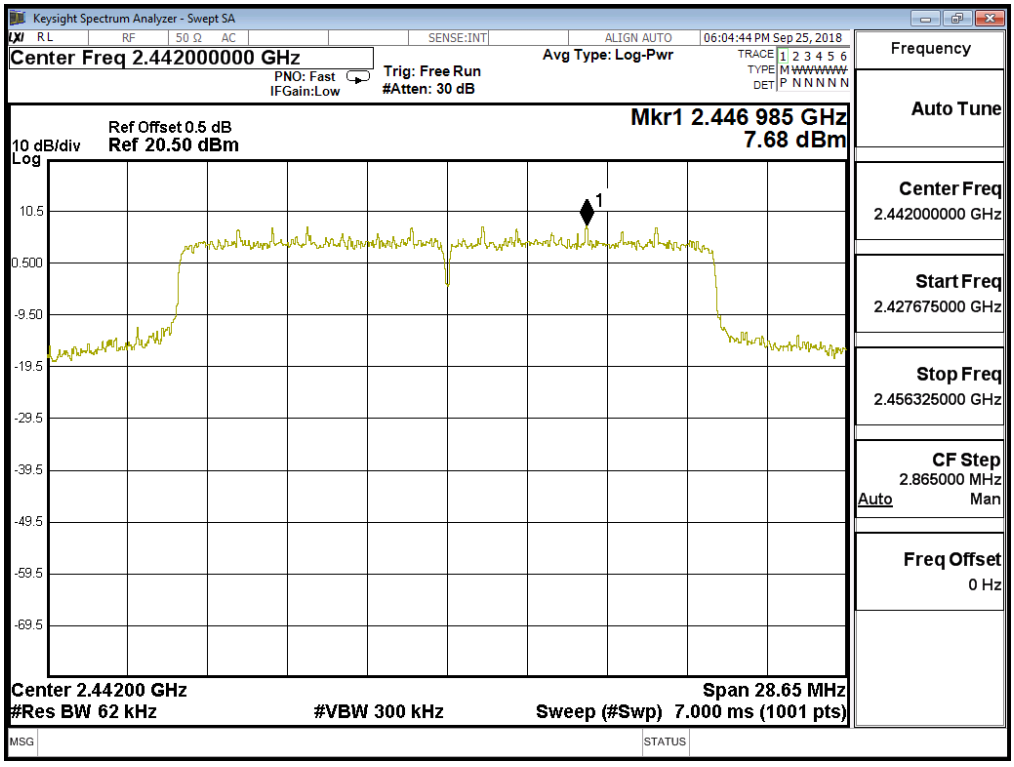


Figure Channel 11:

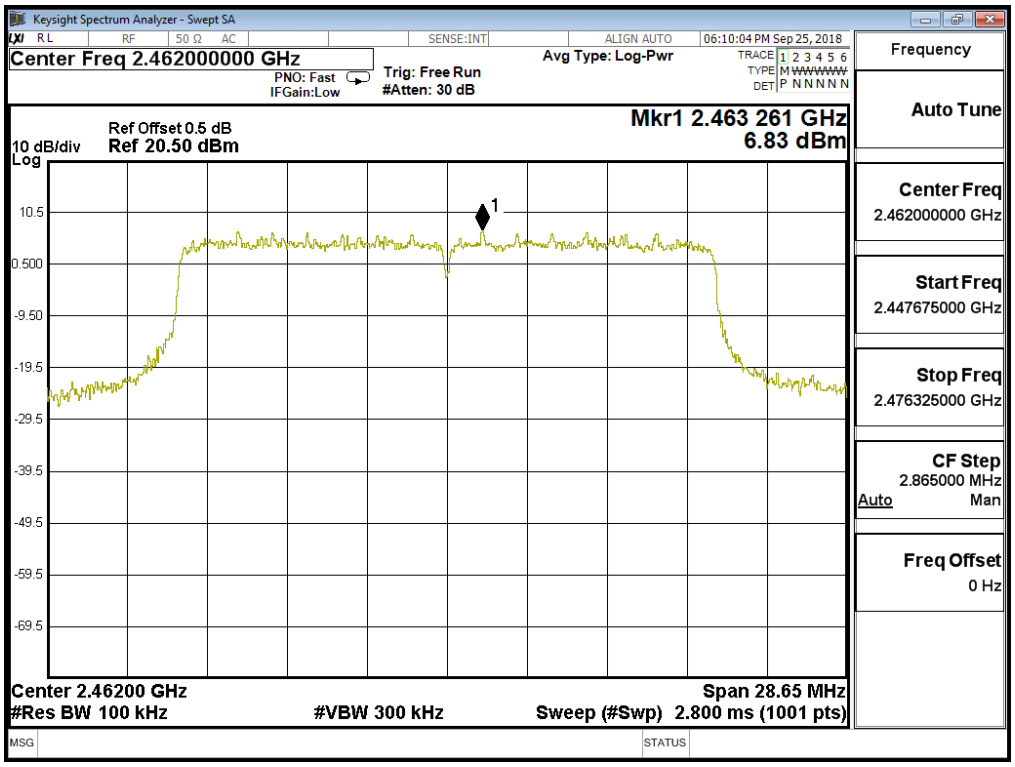


Figure Channel 12:

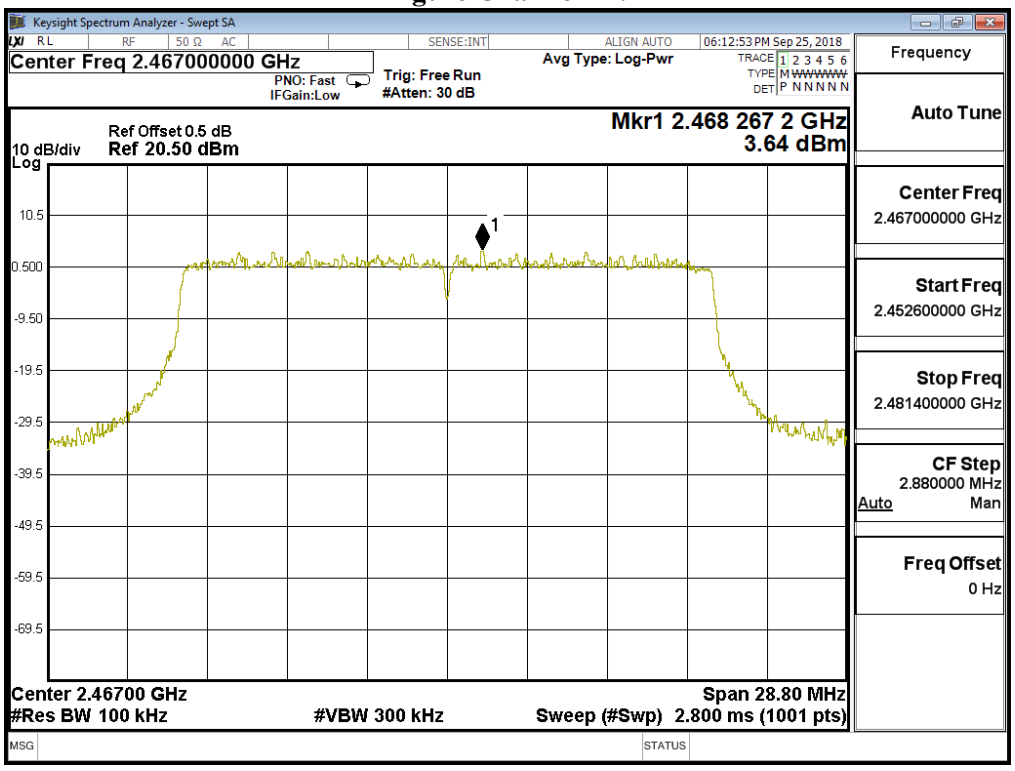
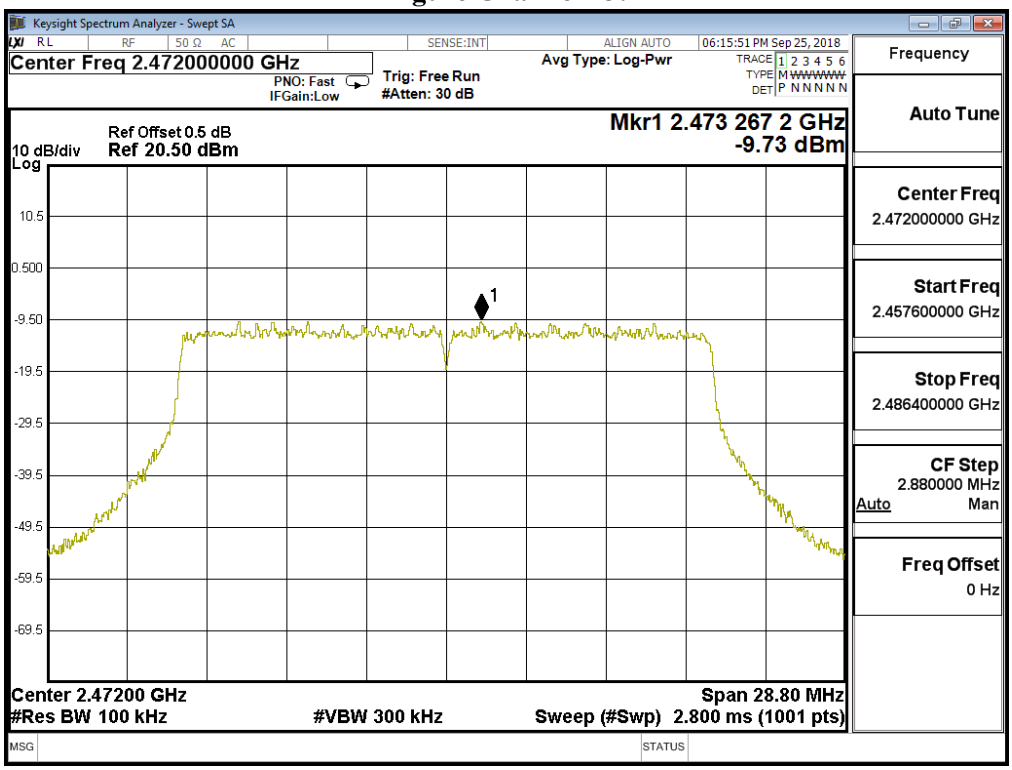


Figure Channel 13:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 12: SISO B: 發射器 802.11ax (40MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.01	≦8dBm	Pass
07	2442	3.28	≦8dBm	Pass
09	2452	1.54	≦8dBm	Pass
10	2457	-2.19	≦8dBm	Pass
11	2462	-10.31	≦8dBm	Pass

Figure Channel 03:

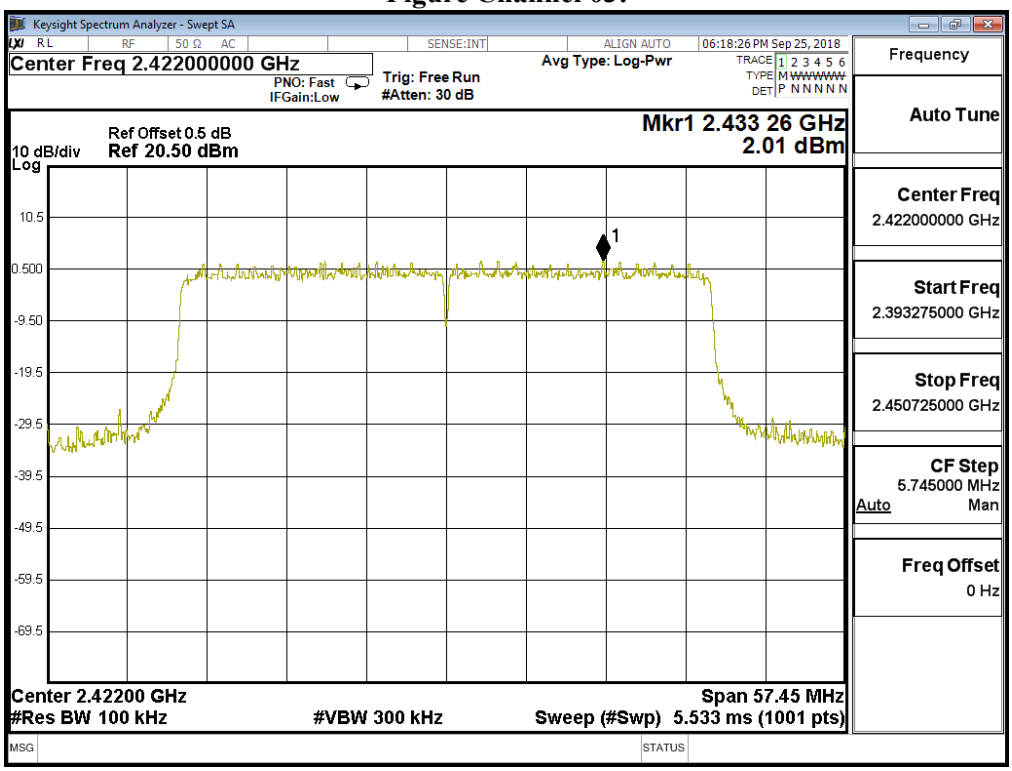


Figure Channel 07:

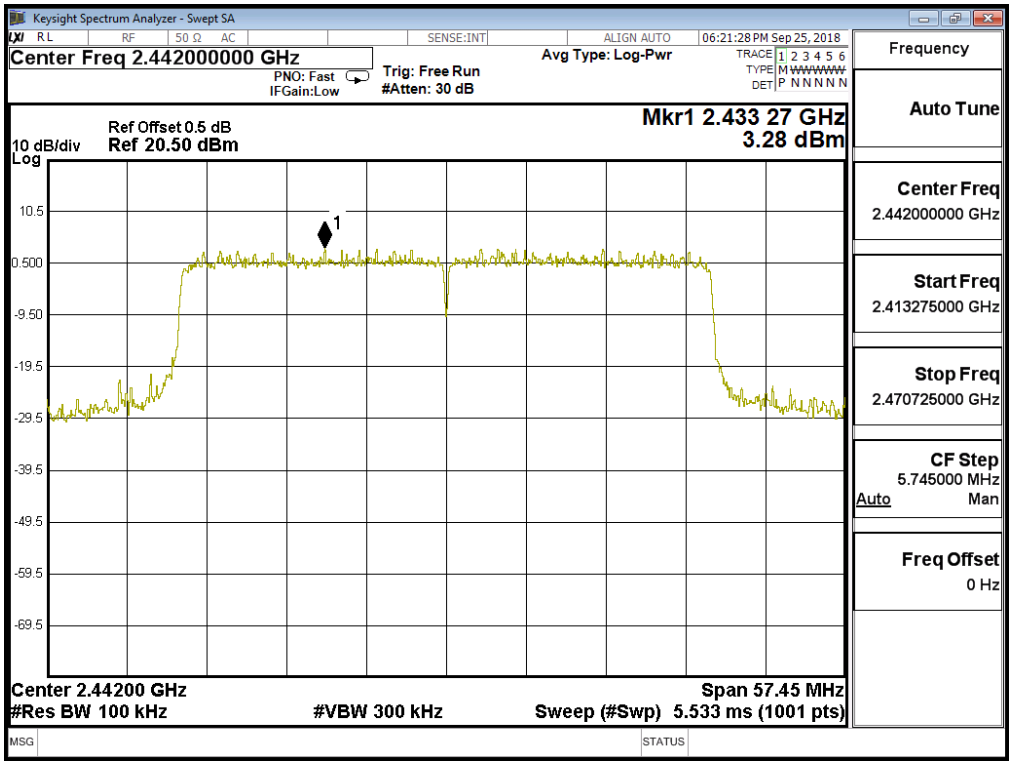


Figure Channel 09:

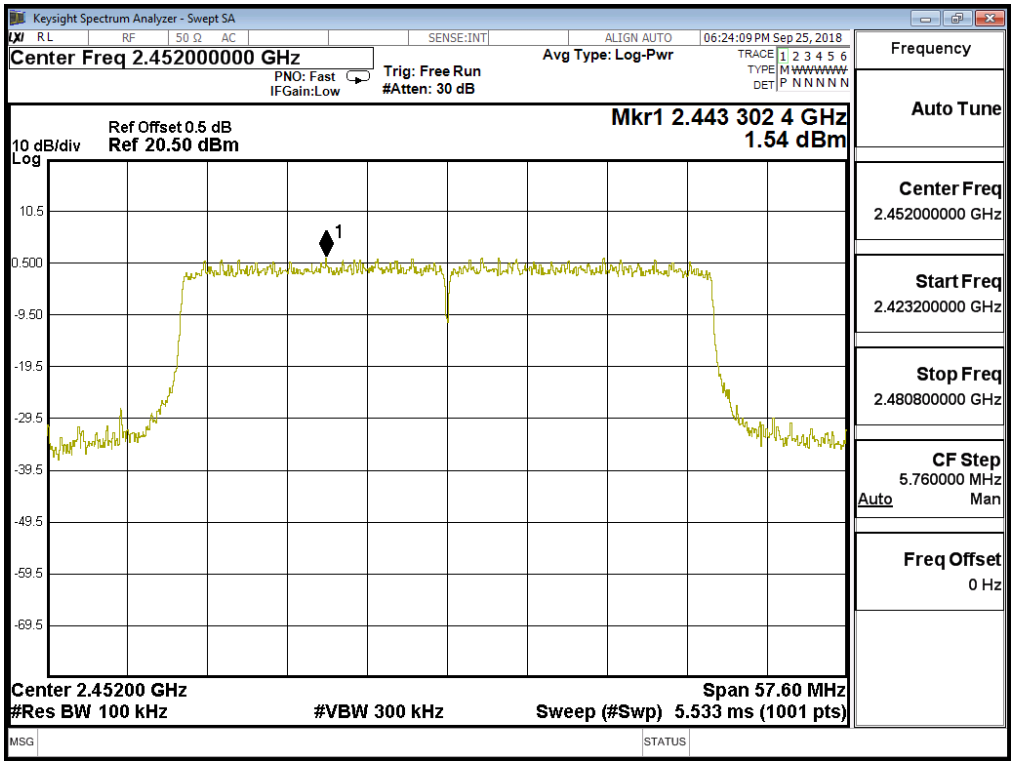


Figure Channel 10:

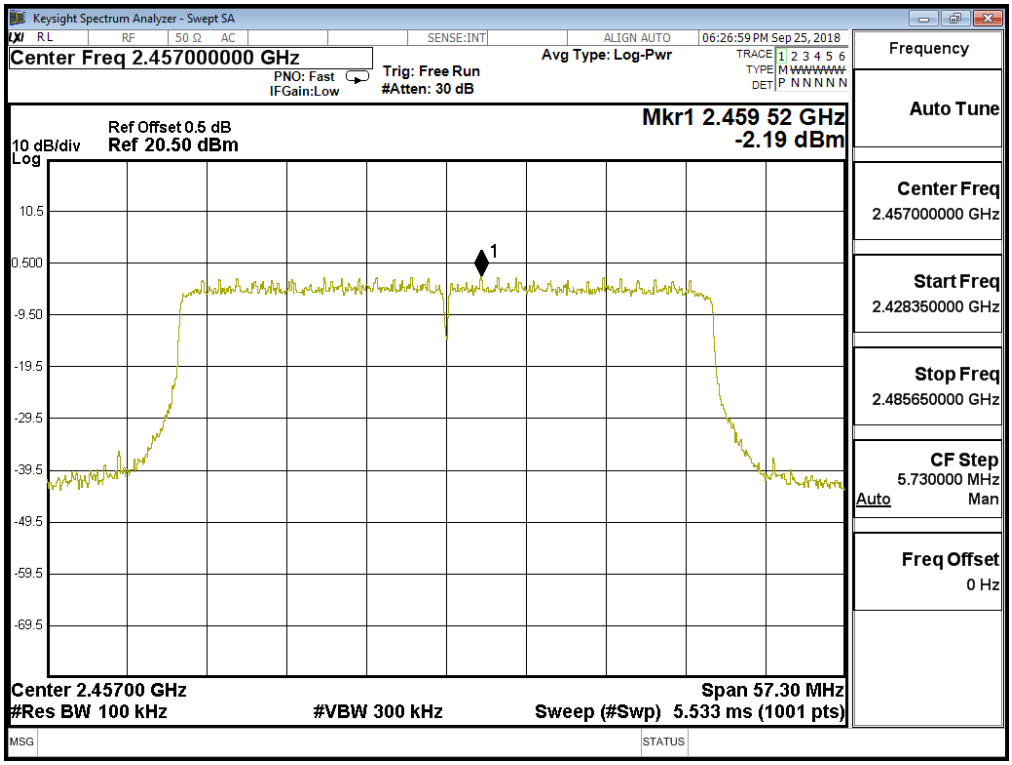
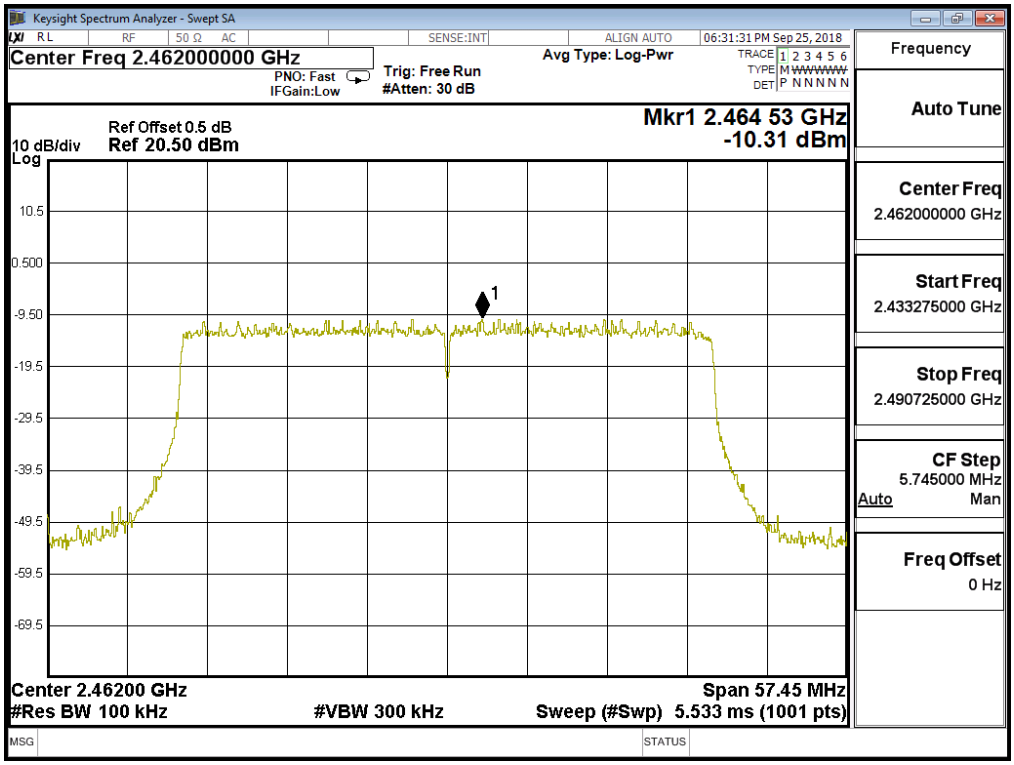


Figure Channel 11:



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 15: MIMO: 發射器 802.11ax (20MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
01	2412.000	A	2.670	3.010	5.680	≦8dBm	Pass
		B	2.460	3.010	5.470	≦8dBm	Pass
07	2442.000	A	4.870	3.010	7.880	≦8dBm	Pass
		B	4.600	3.010	7.610	≦8dBm	Pass
11	2462.000	A	3.780	3.010	6.790	≦8dBm	Pass
		B	3.640	3.010	6.650	≦8dBm	Pass
12	2467.00	A	0.670	3.010	3.680	≦8dBm	Pass
		B	0.430	3.010	3.440	≦8dBm	Pass
13	2472.00	A	-13.920	3.010	-10.910	≦8dBm	Pass
		B	-13.370	3.010	-10.360	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 01: (Chain A)

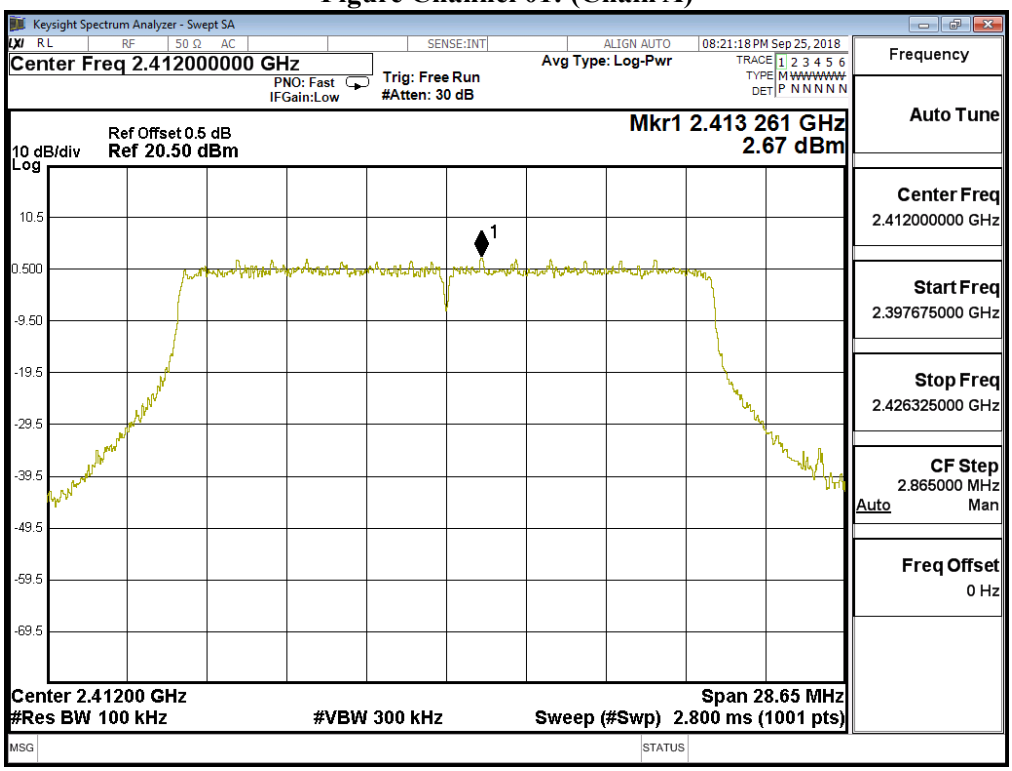


Figure Channel 01: (Chain B)

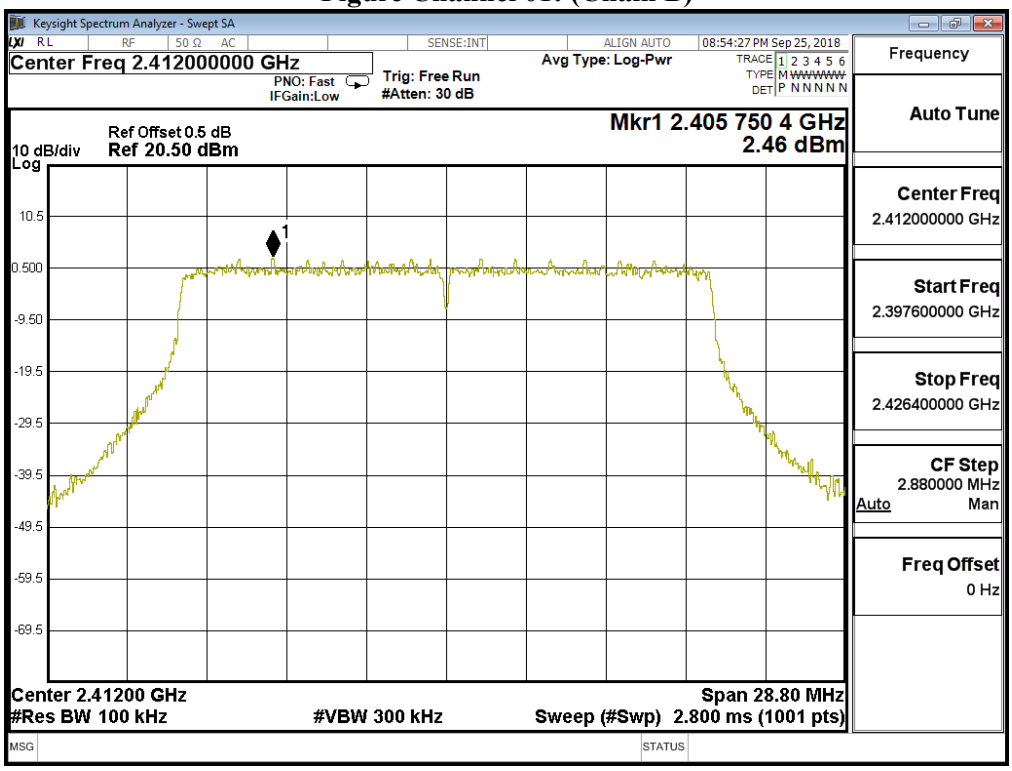


Figure Channel 07: (Chain A)

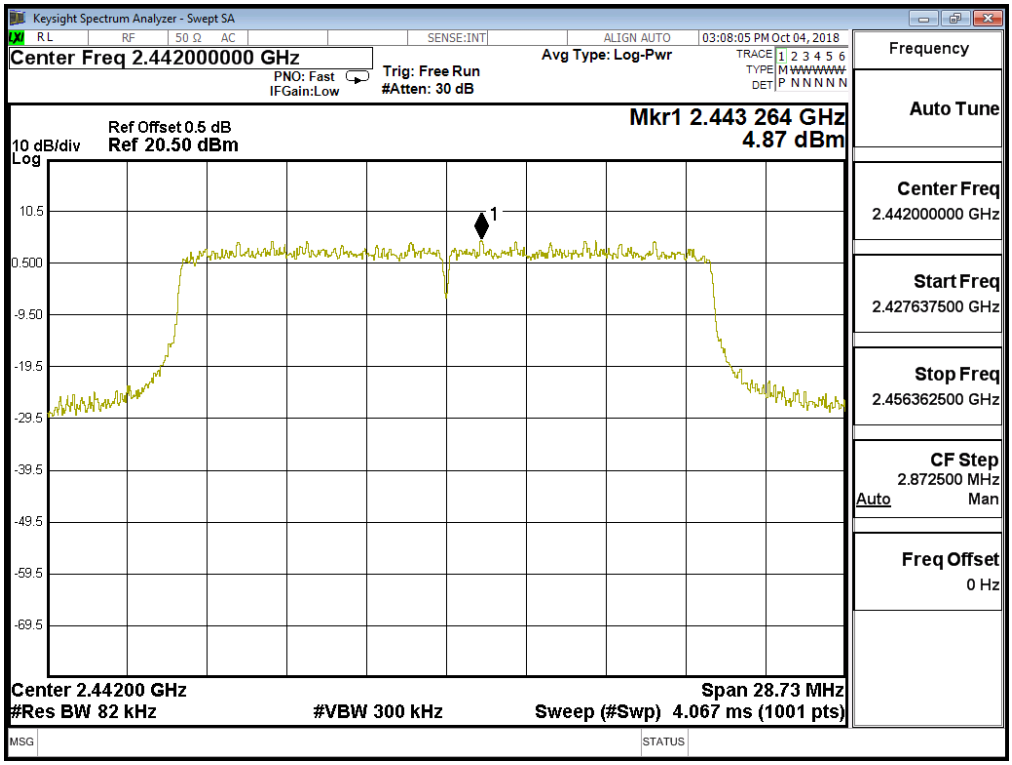


Figure Channel 07: (Chain B)

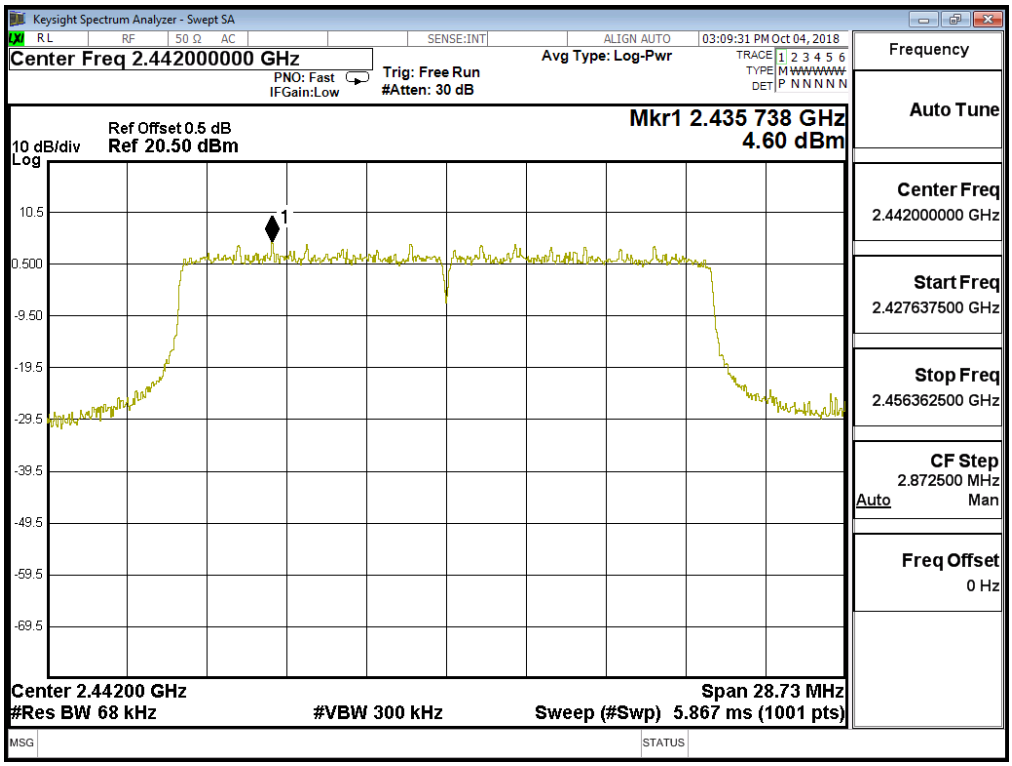


Figure Channel 11: (Chain A)

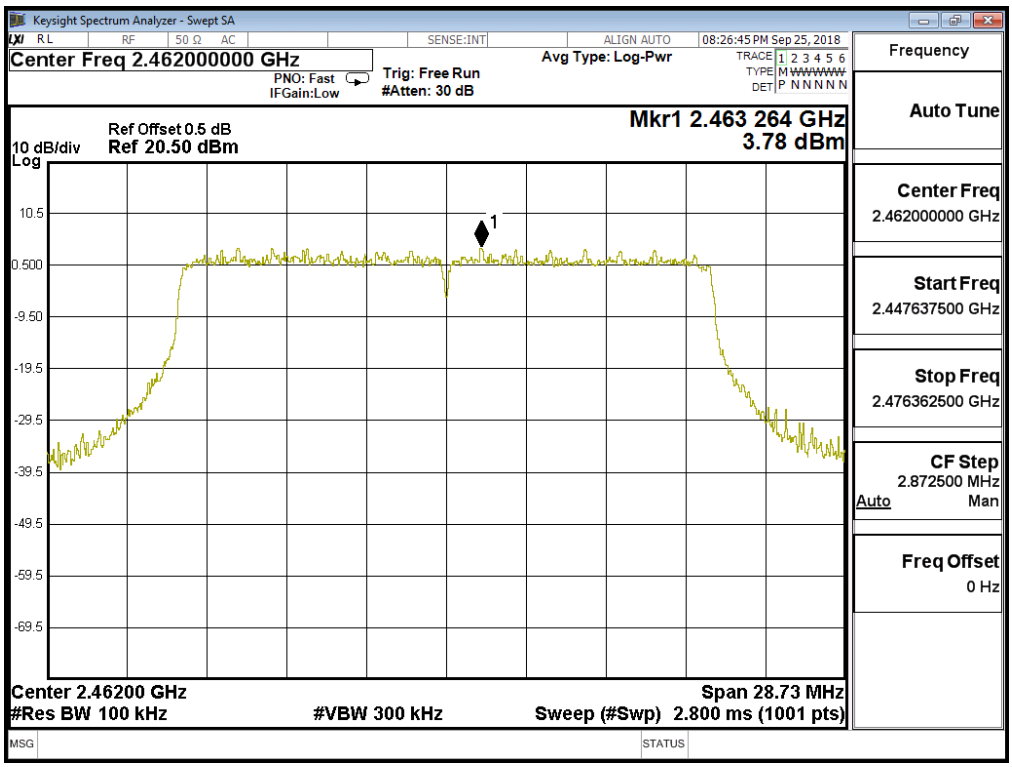


Figure Channel 11: (Chain B)

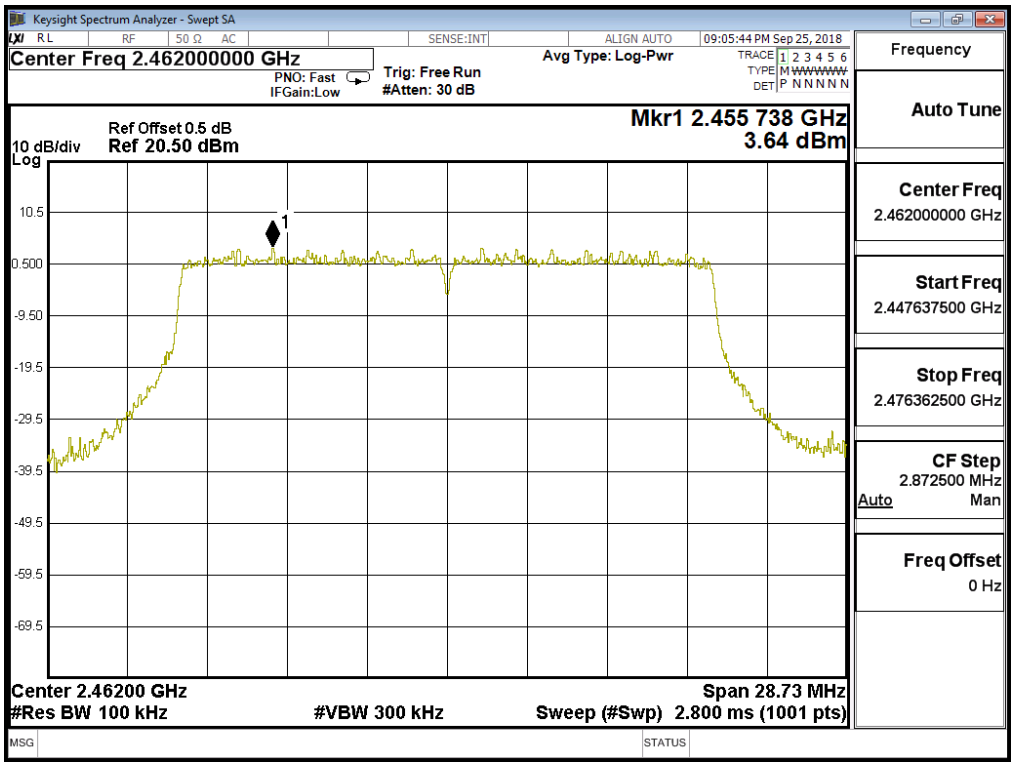


Figure Channel 12: (Chain A)

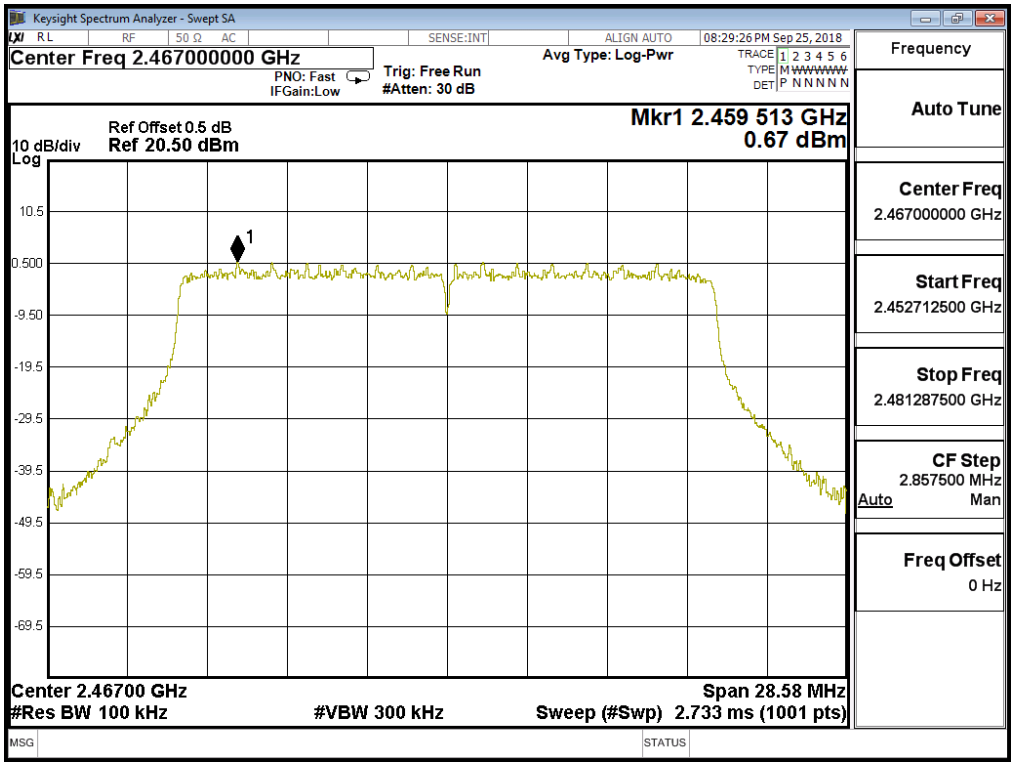


Figure Channel 12: (Chain B)

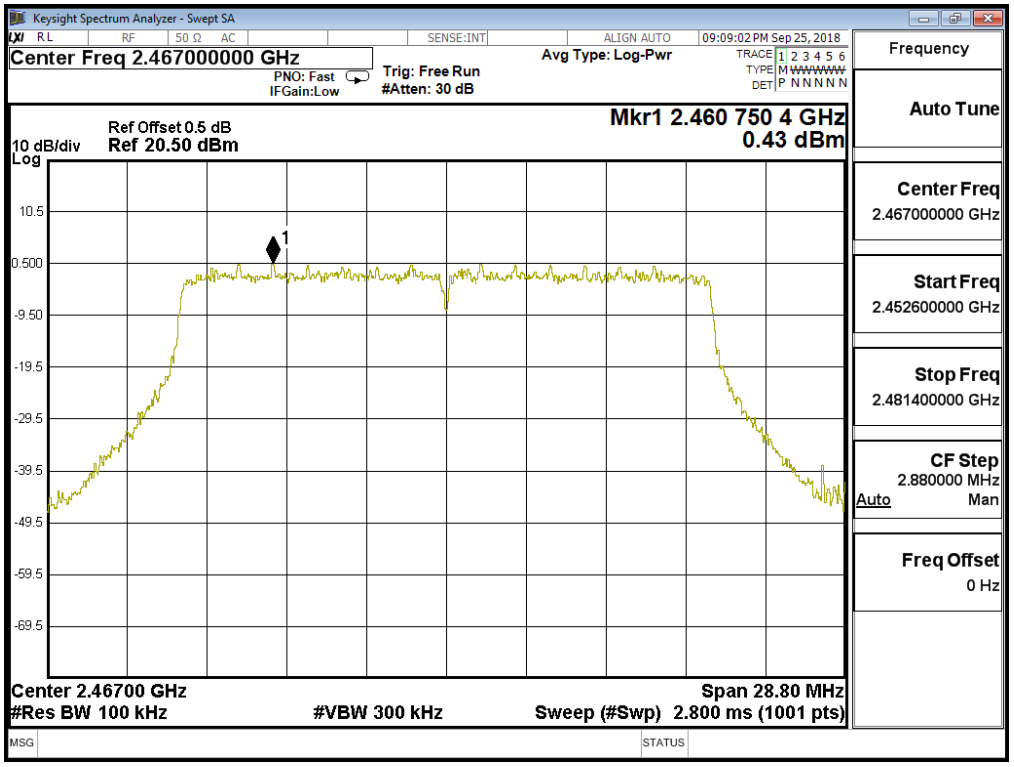


Figure Channel 13: (Chain A)

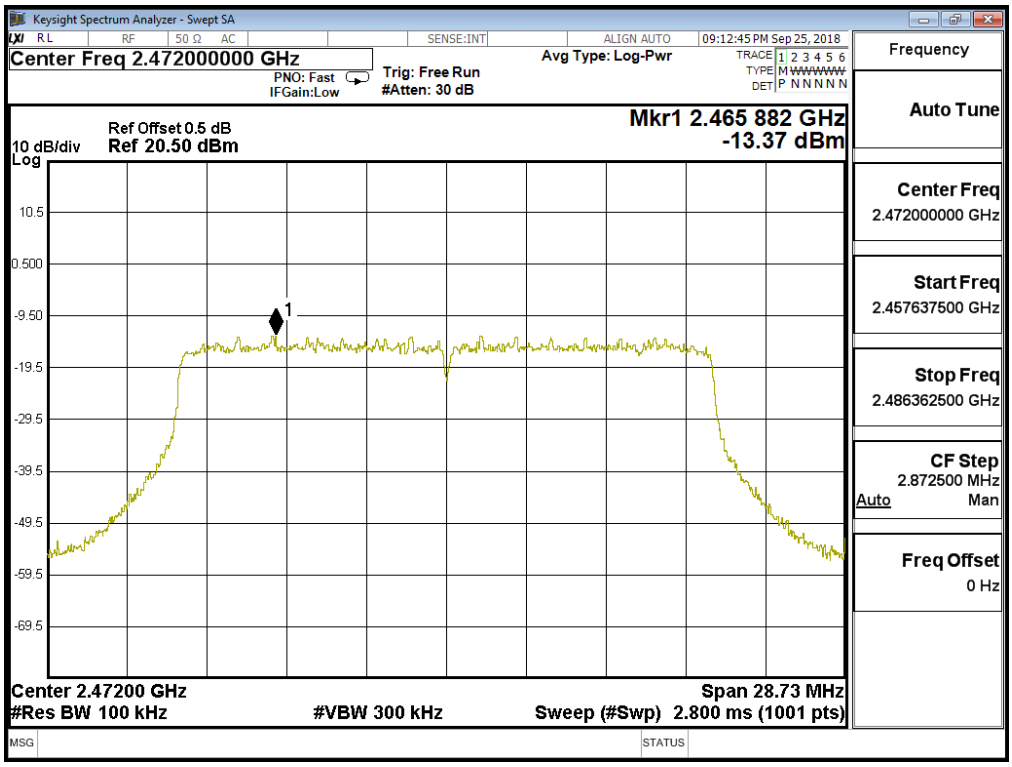
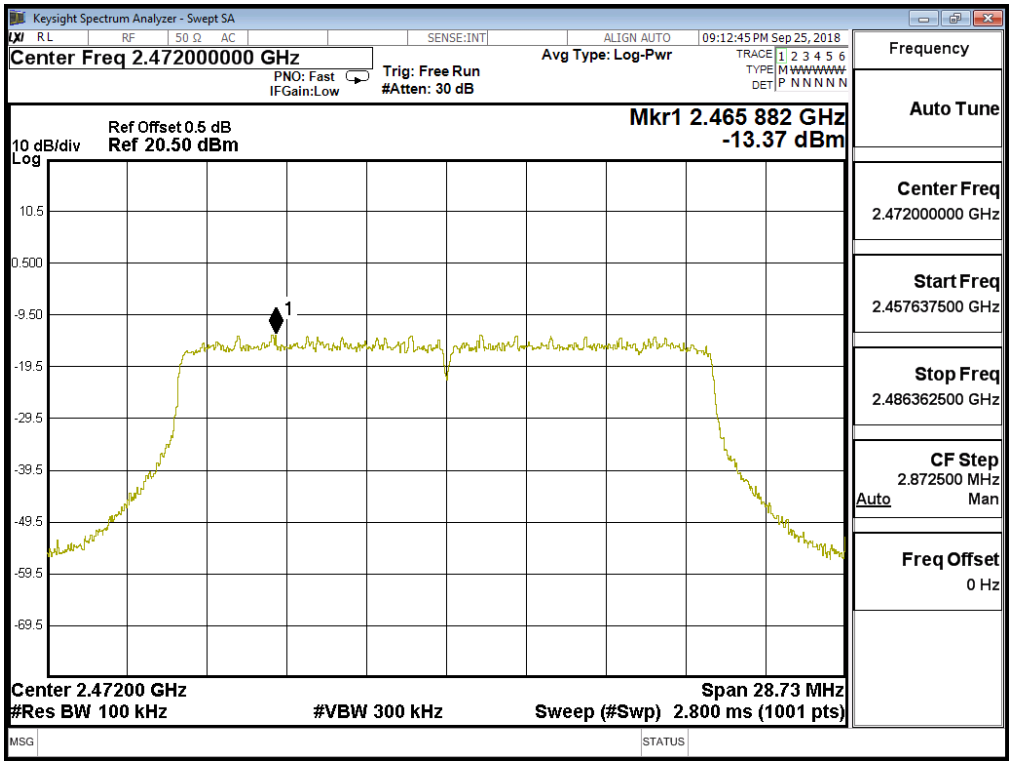


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201NGW　　測試項目：功率密度
測試頻道：--　　測試模式：Mode 16: MIMO: 發射器 802.11ax (40MHz)
量測天線：--　　測試距離：Conducted
檢測器：峰值　　環境溫度：20 ℃
測試日期：107 年 09 月 21 日　　環境濕度：50 %

Channel No.	Frequency (MHz)	Chain	PPSD/MHz (dBm)	10*log(2) (dB)	Measure Level (dBm)	Limit (dBm)	Result
03	2422.000	A	-0.900	3.010	2.110	≦8dBm	Pass
		B	-0.870	3.010	2.140	≦8dBm	Pass
07	2442.000	A	-0.450	3.010	2.560	≦8dBm	Pass
		B	-0.530	3.010	2.480	≦8dBm	Pass
09	2452.000	A	-1.050	3.010	1.960	≦8dBm	Pass
		B	-1.270	3.010	1.740	≦8dBm	Pass
10	2457.00	A	-4.920	3.010	-1.910	≦8dBm	Pass
		B	-4.840	3.010	-1.830	≦8dBm	Pass
11	2462.00	A	-13.040	3.010	-10.030	≦8dBm	Pass
		B	-13.270	3.010	-10.260	≦8dBm	Pass

Note:
The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 03: (Chain A)

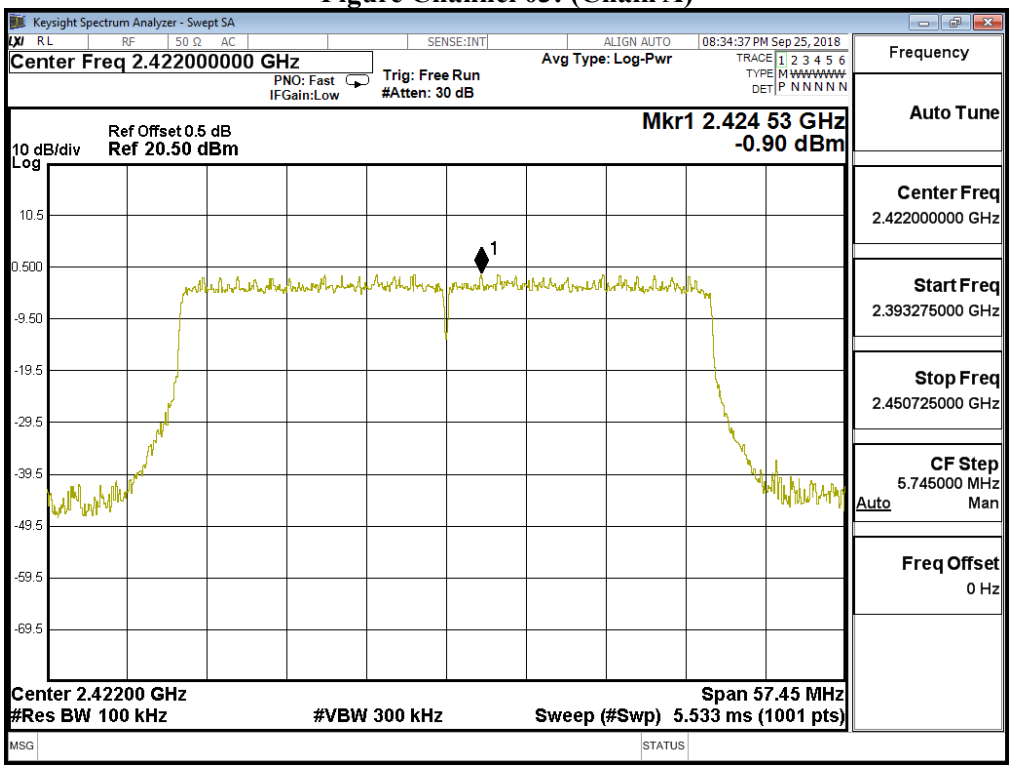


Figure Channel 03: (Chain B)

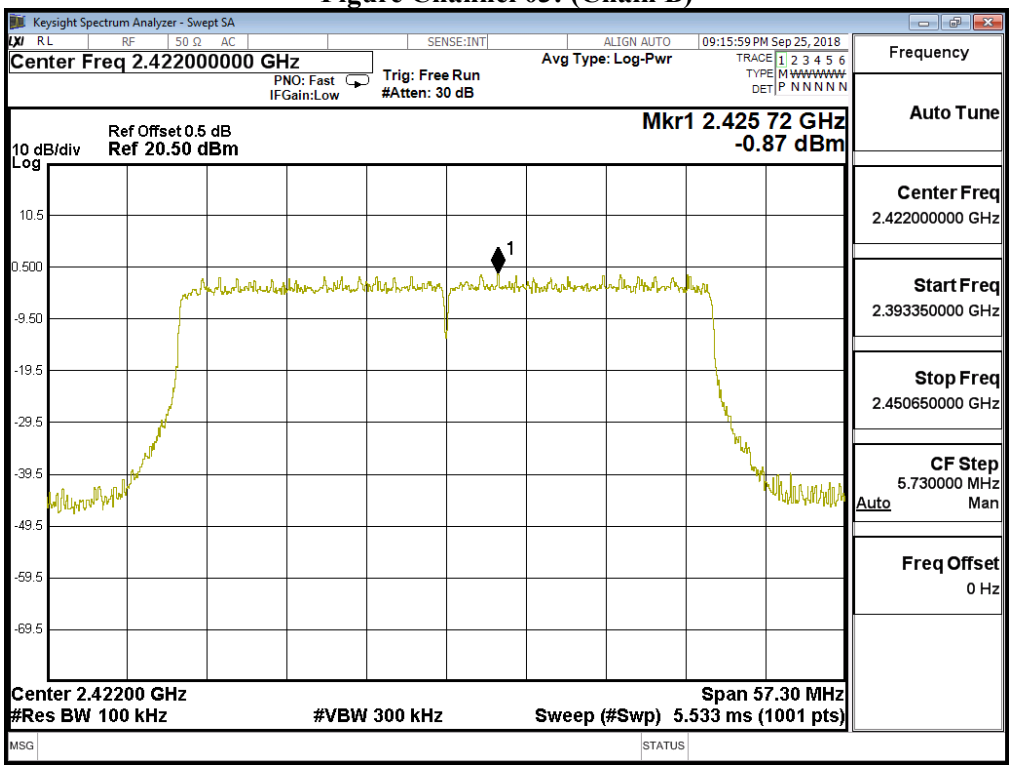


Figure Channel 07: (Chain A)

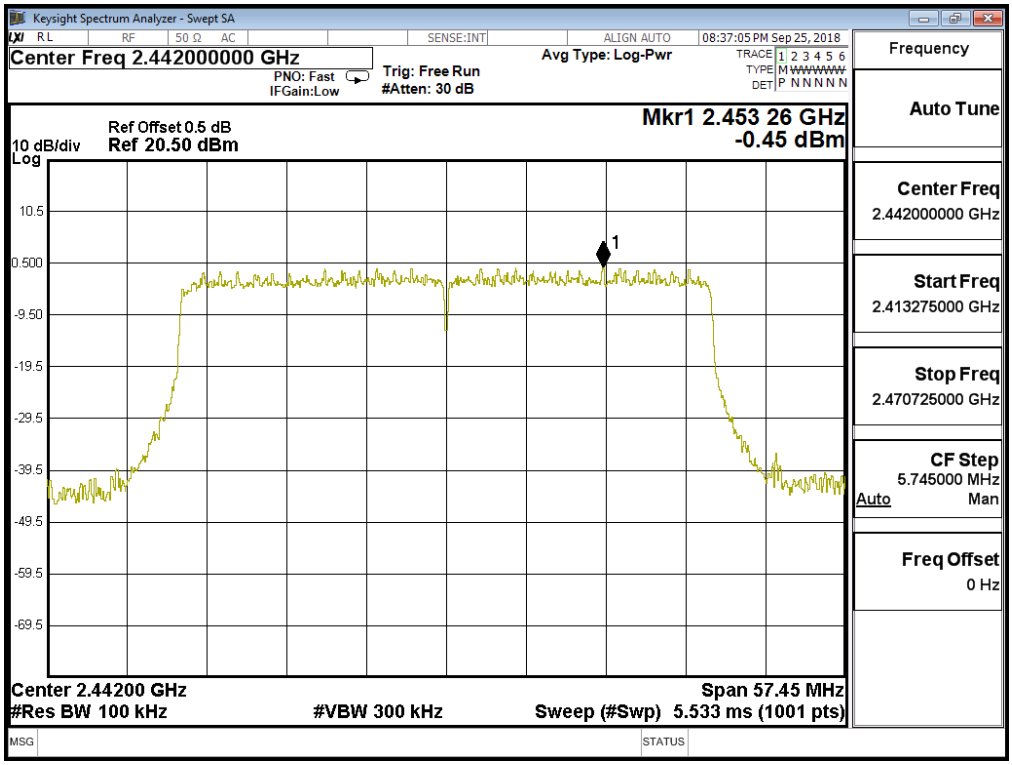


Figure Channel 07: (Chain B)

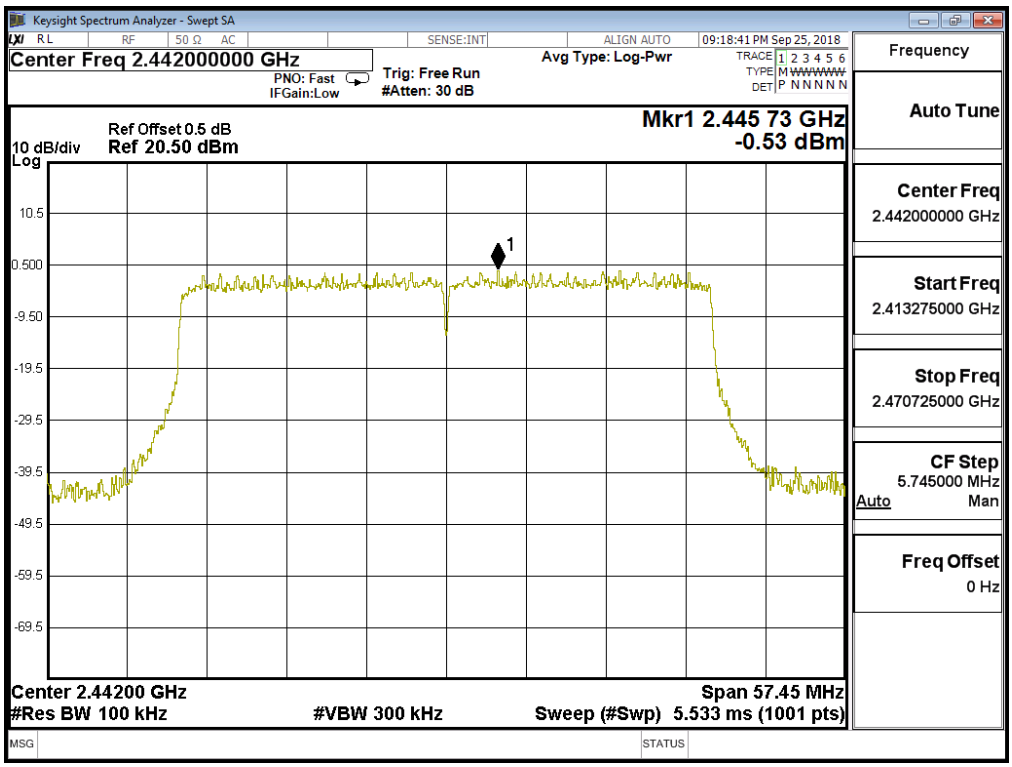


Figure Channel 09: (Chain A)

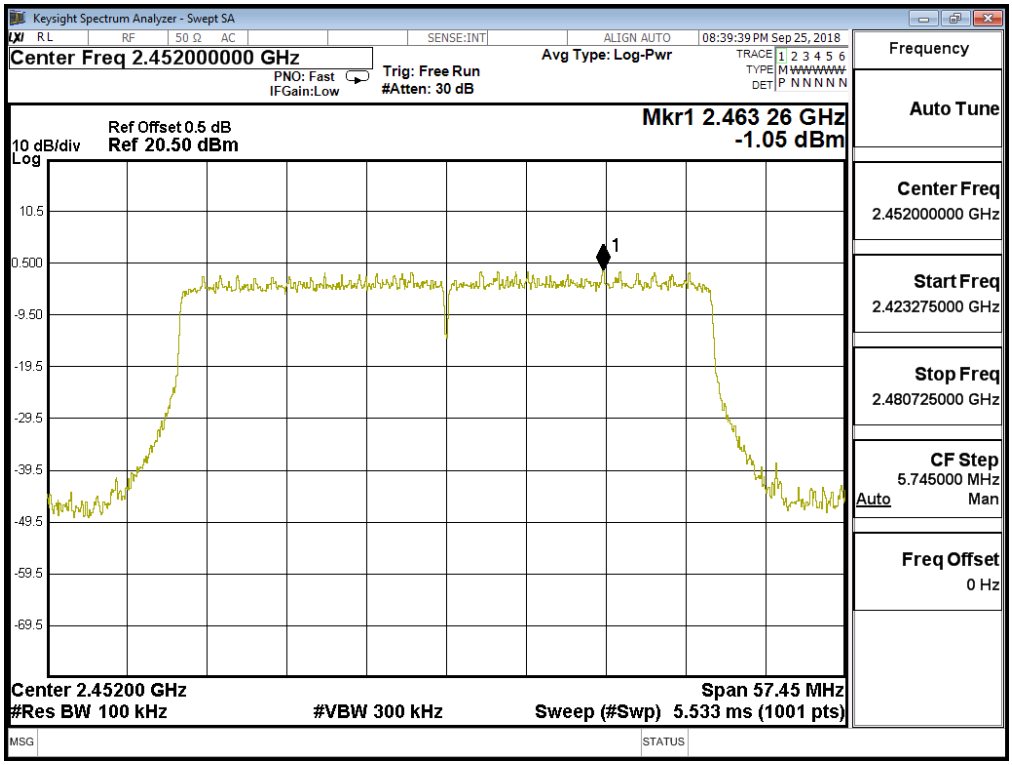


Figure Channel 09: (Chain B)

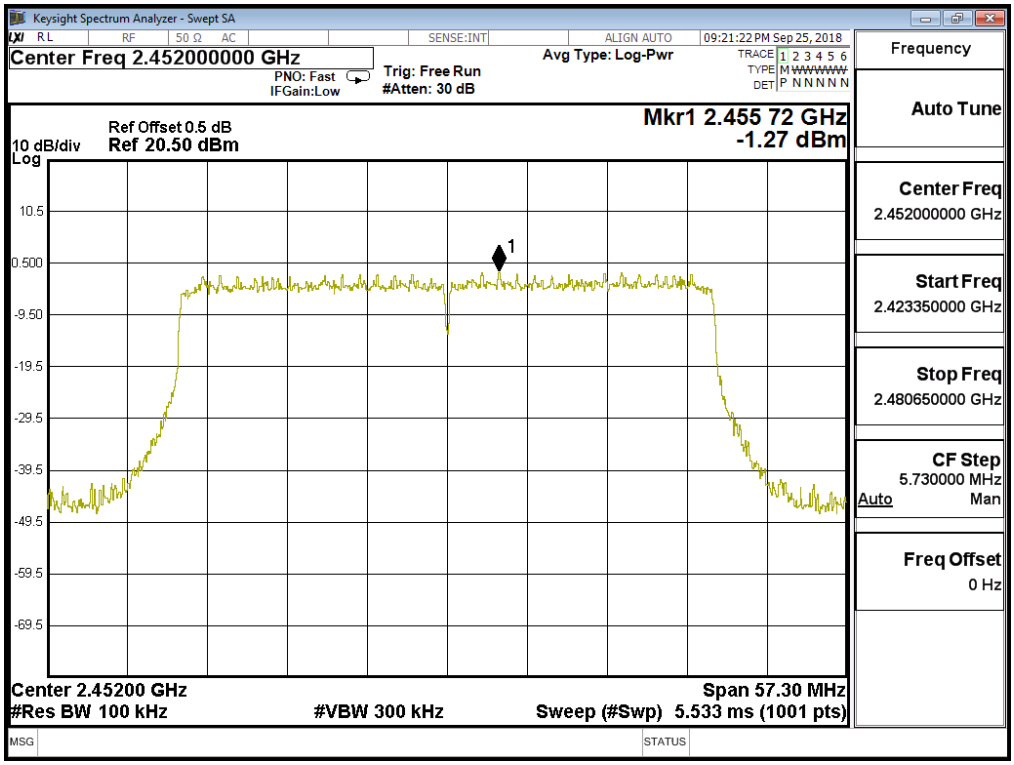


Figure Channel 10: (Chain A)

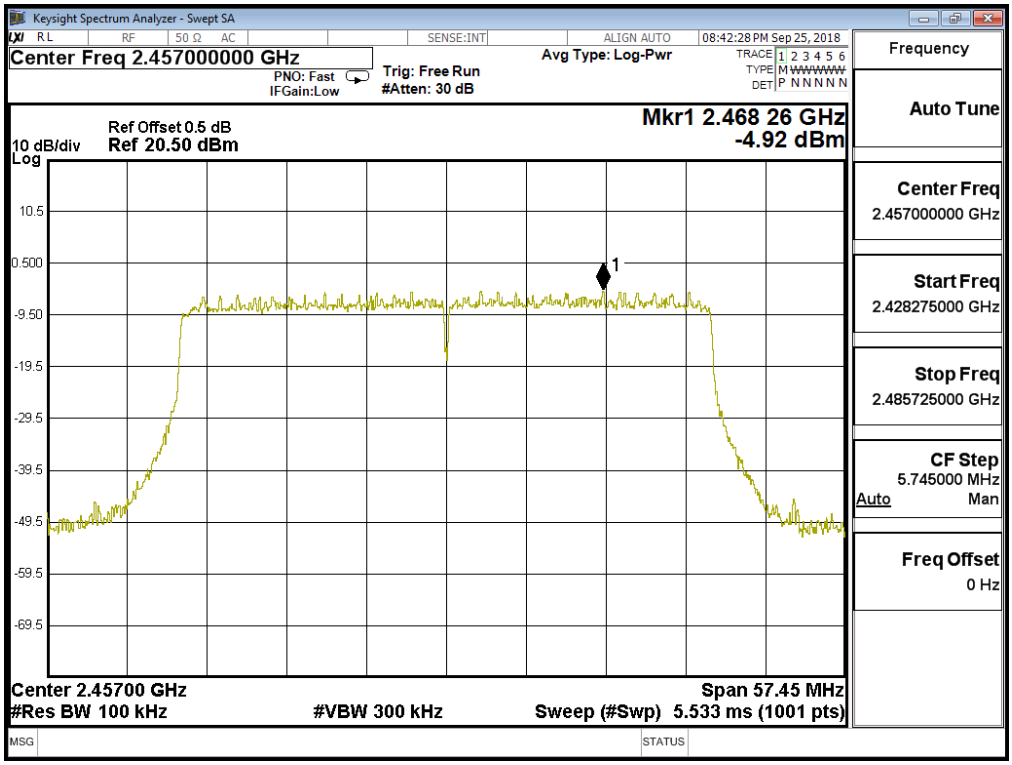
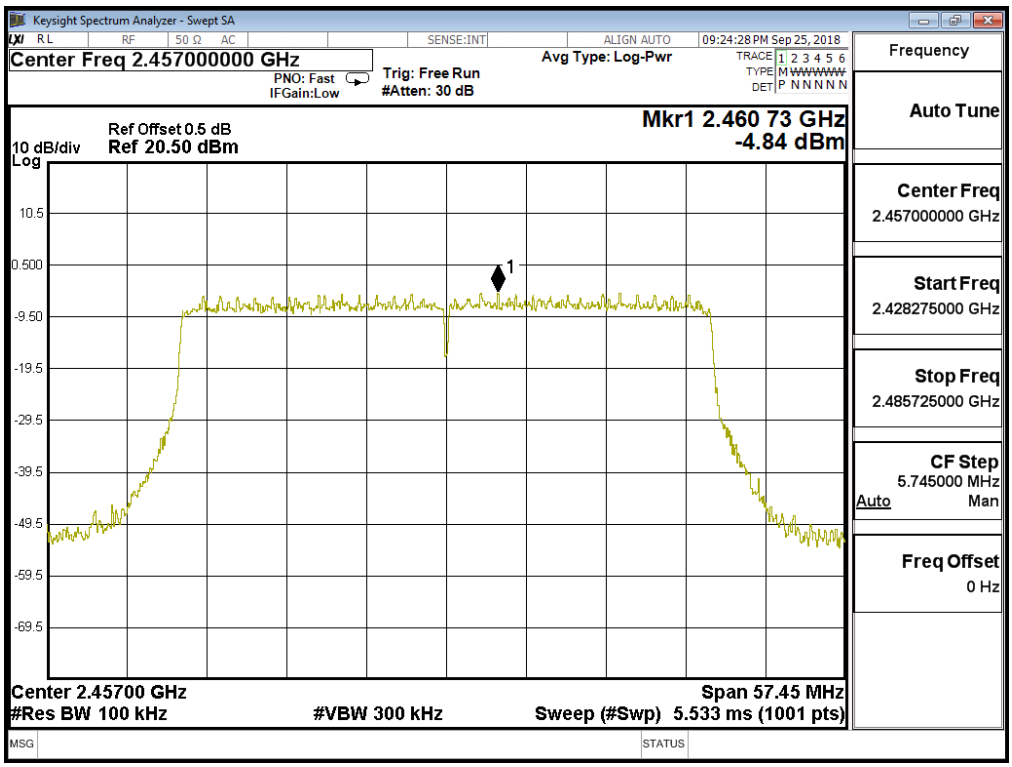



Figure Channel 10: (Chain B)