

Figure Channel 12: (Chain A)

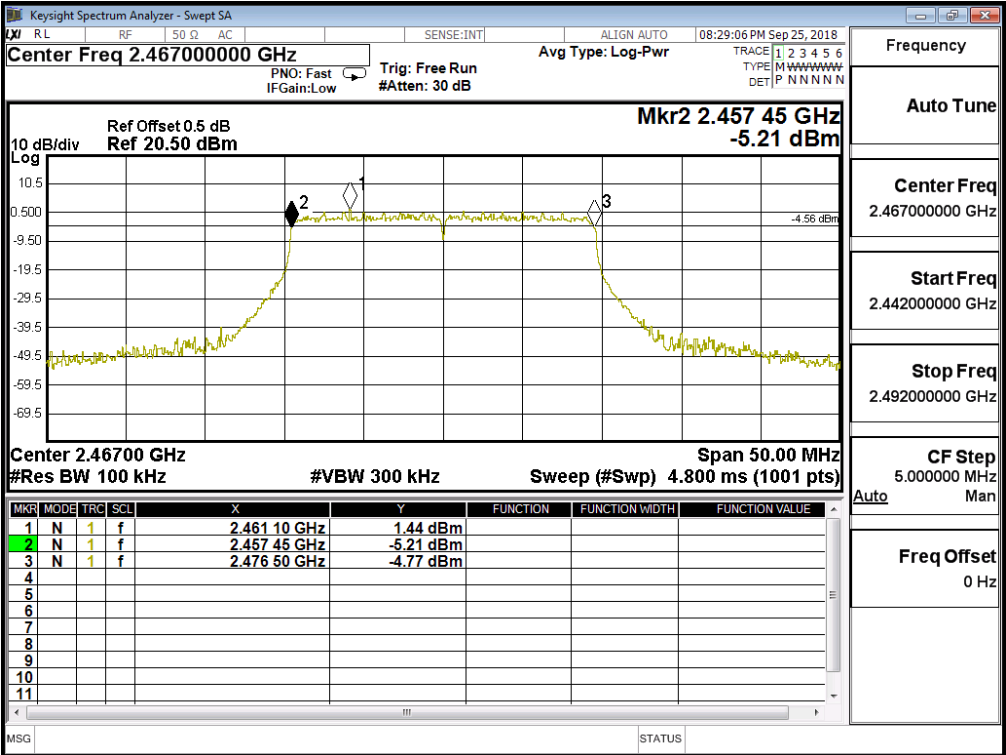


Figure Channel 12: (Chain B)

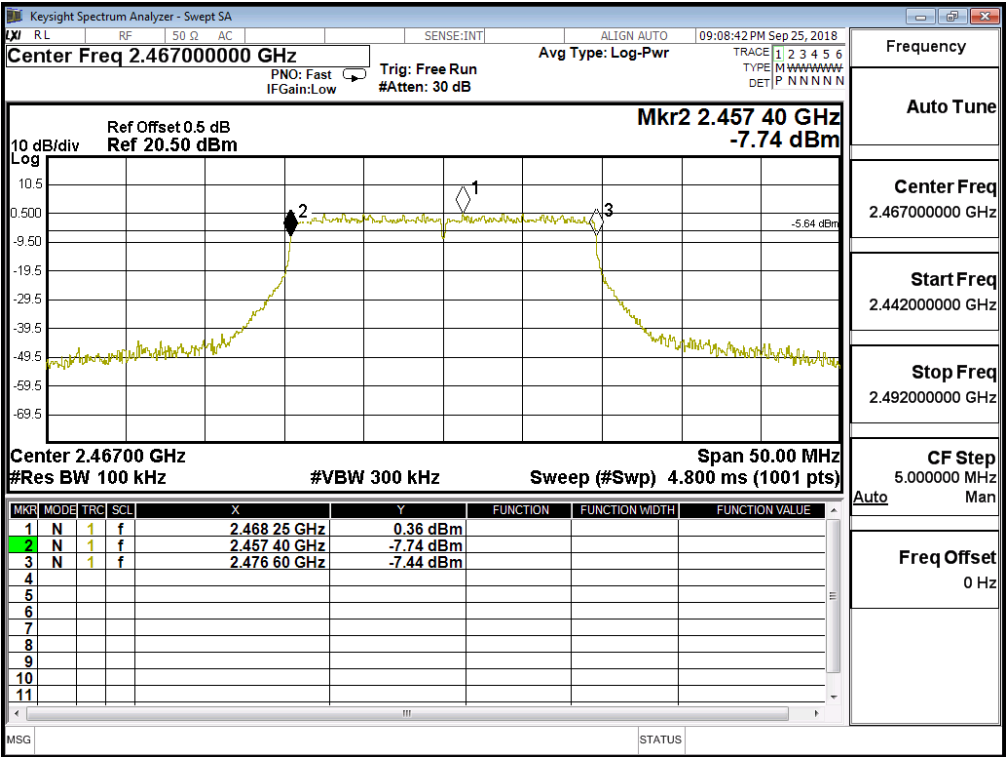


Figure Channel 13: (Chain A)

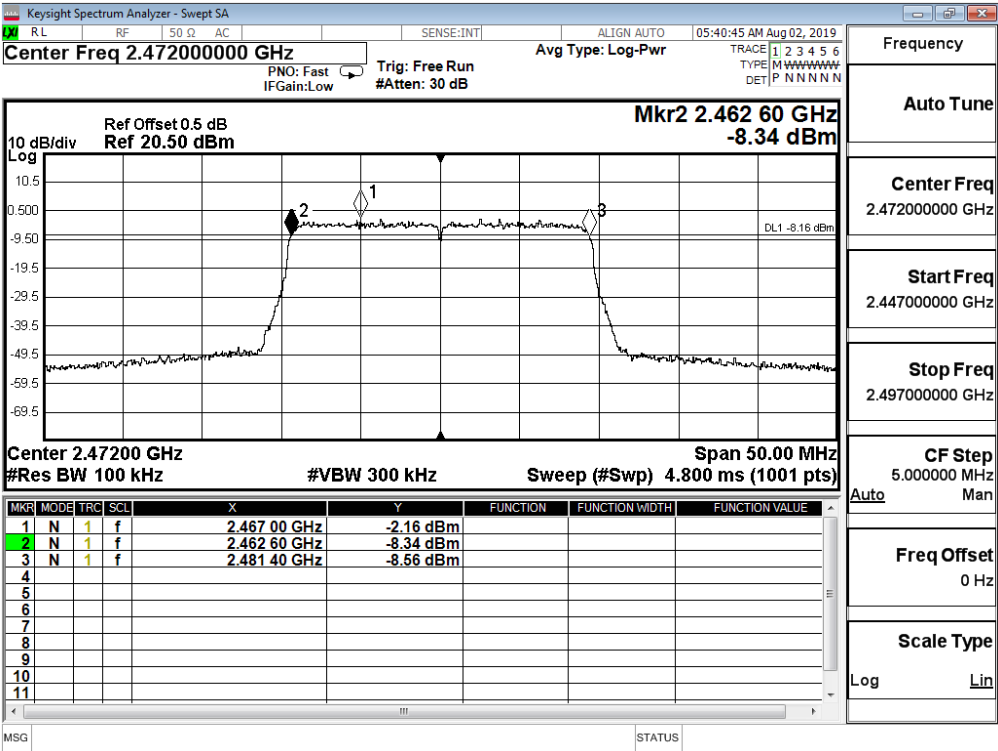
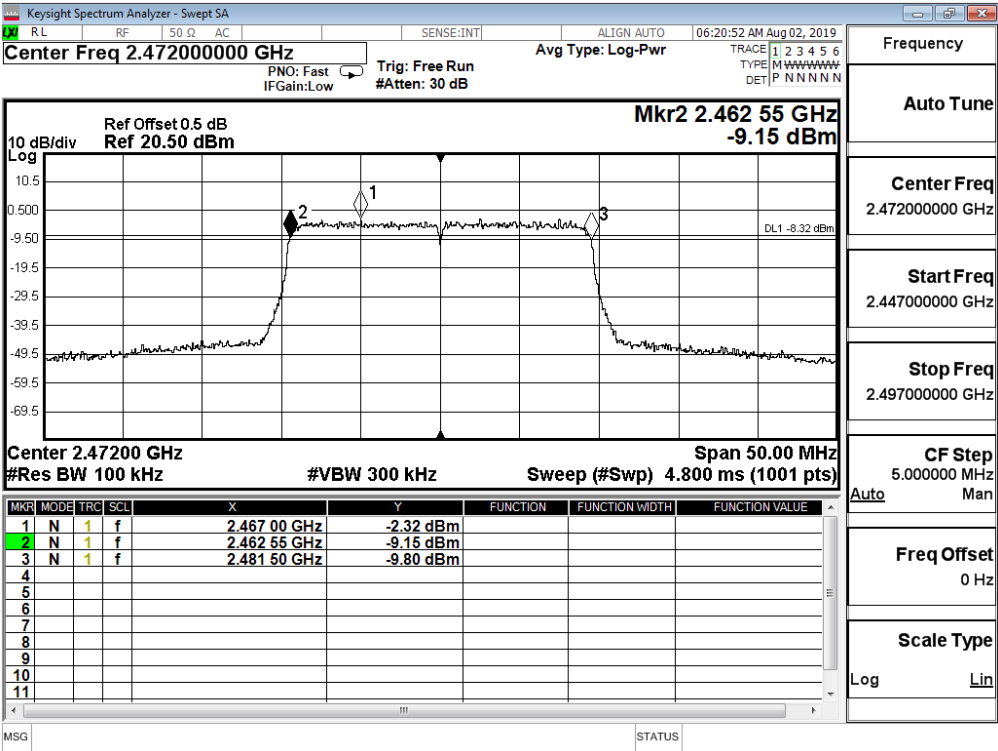


Figure Channel 13: (Chain B)



待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：107年09月21日

測試項目：佔用頻帶寬度

測試模式：Mode 3: MIMO: 發射器 802.11ax (40MHz)

視頻頻寬：300kHz

測試距離：Conducted

環境溫度：20 °C

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	38100	>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	37900	>500	Pass

Figure Channel 03: (Chain A)

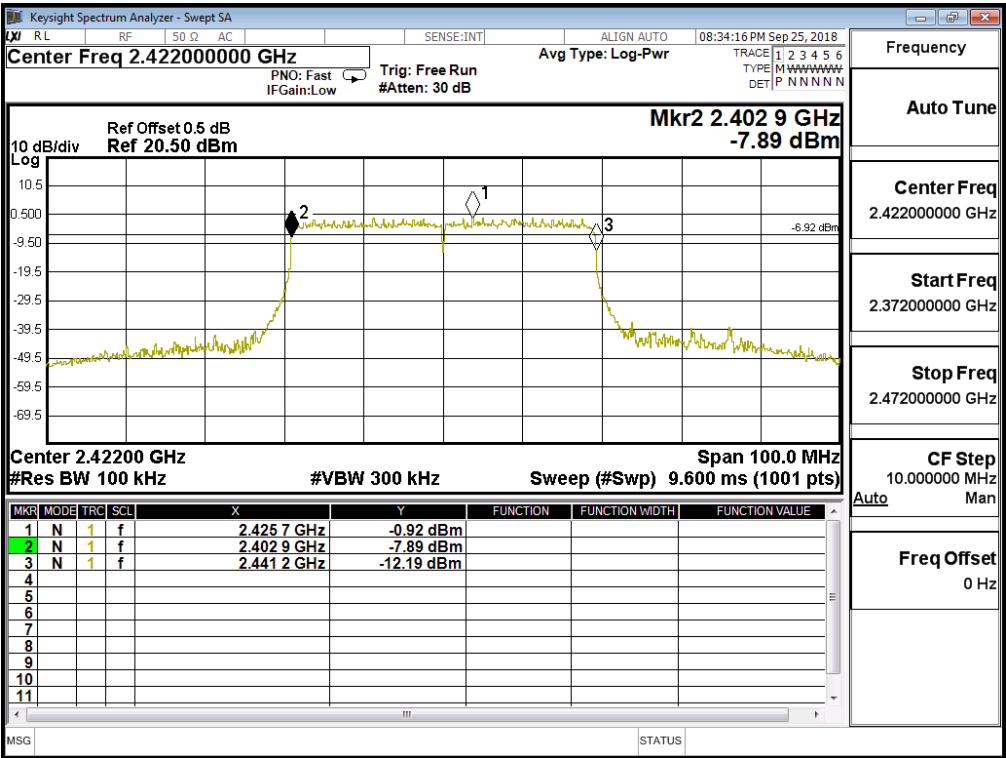


Figure Channel 03: (Chain B)

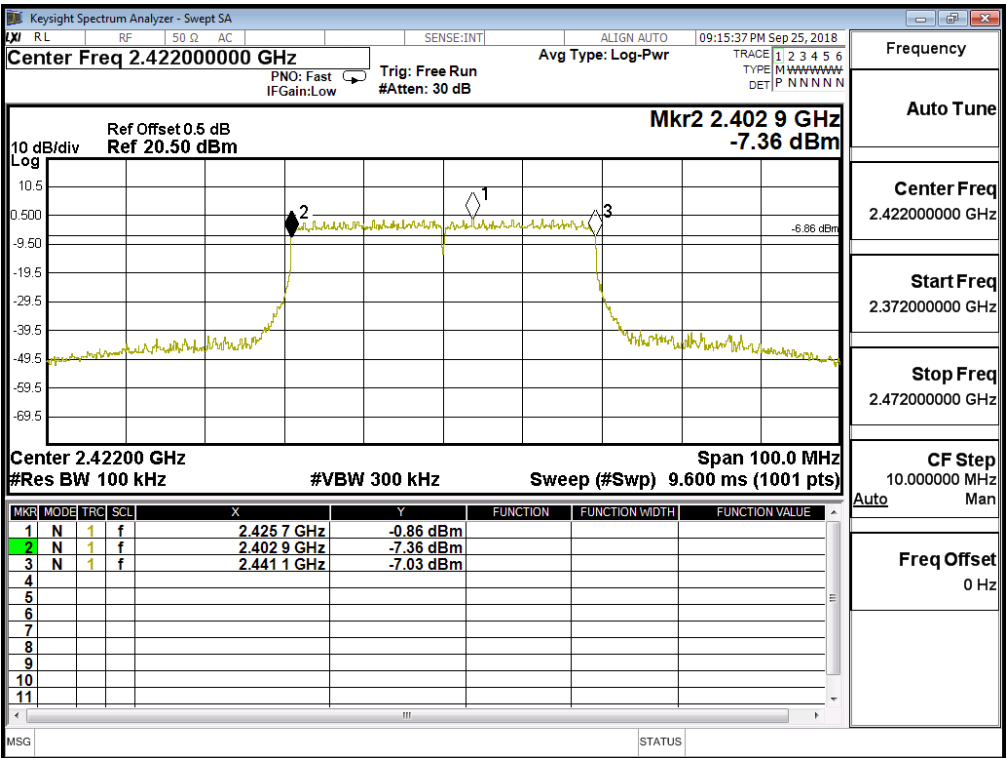


Figure Channel 07: (Chain A)

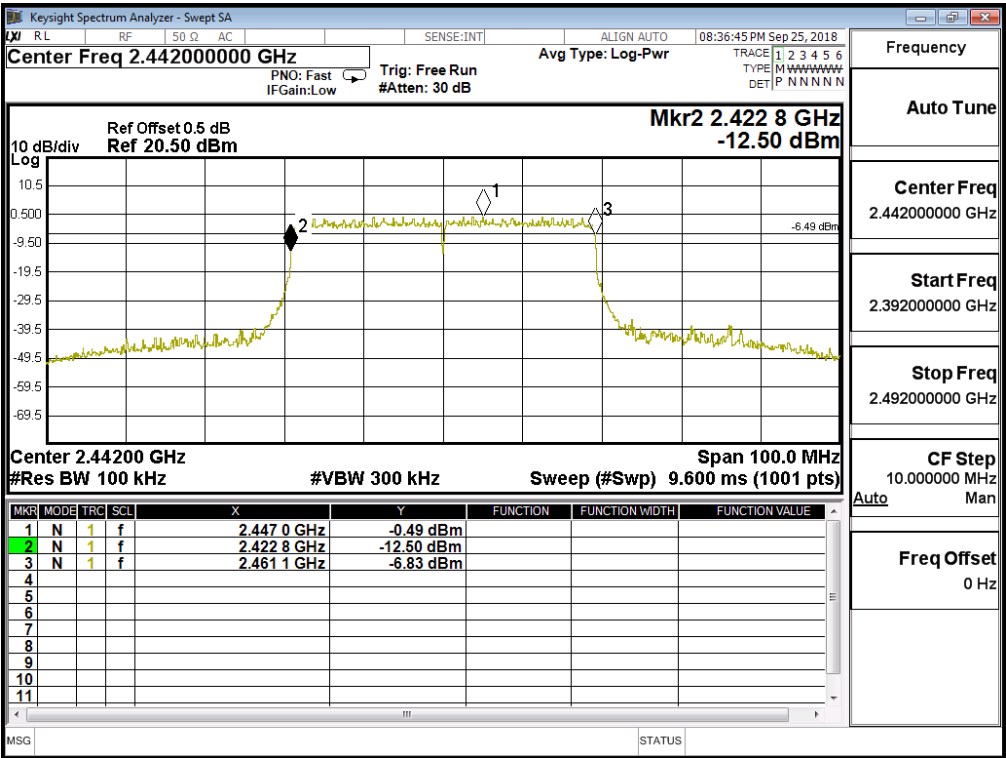


Figure Channel 07: (Chain B)

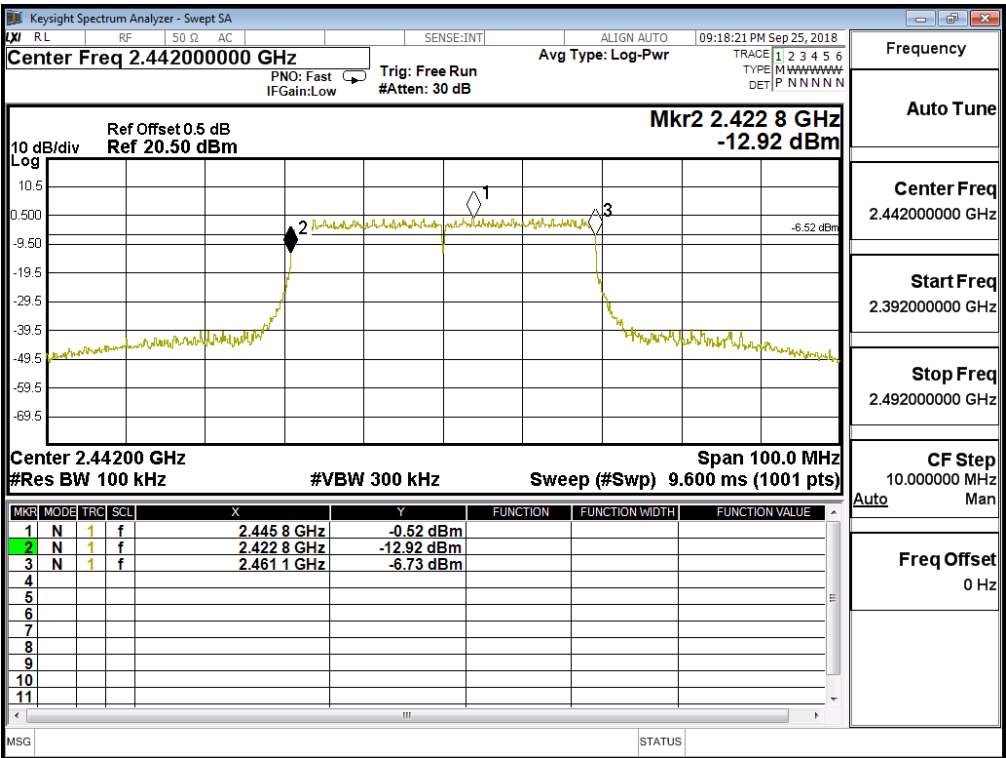


Figure Channel 09: (Chain A)

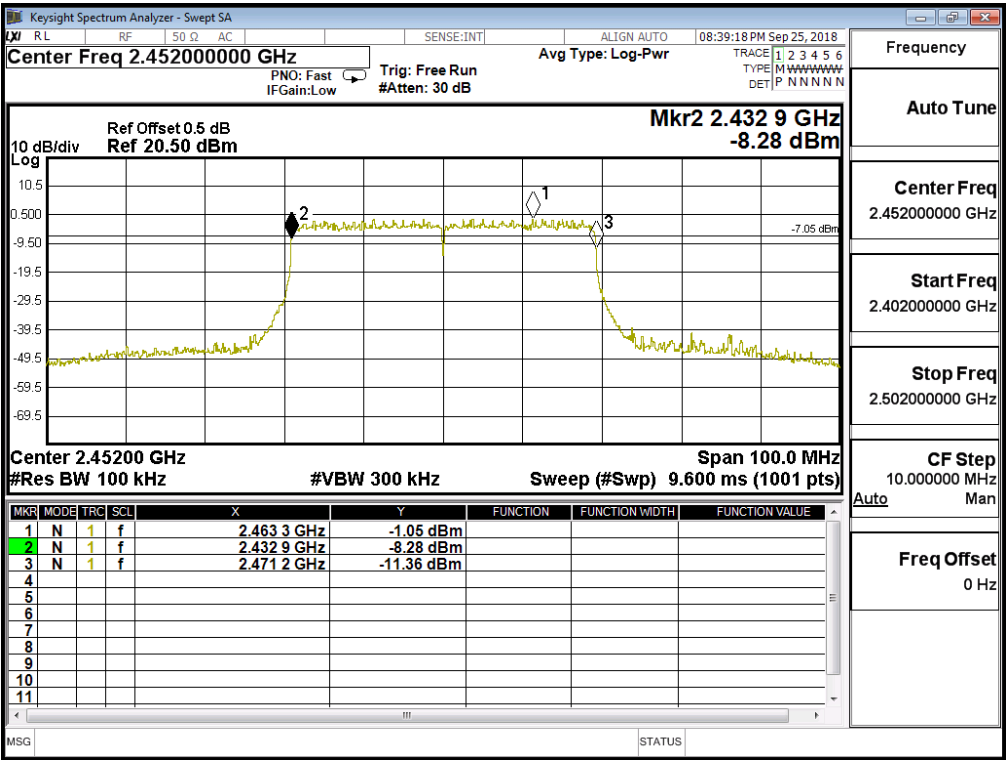


Figure Channel 09: (Chain B)

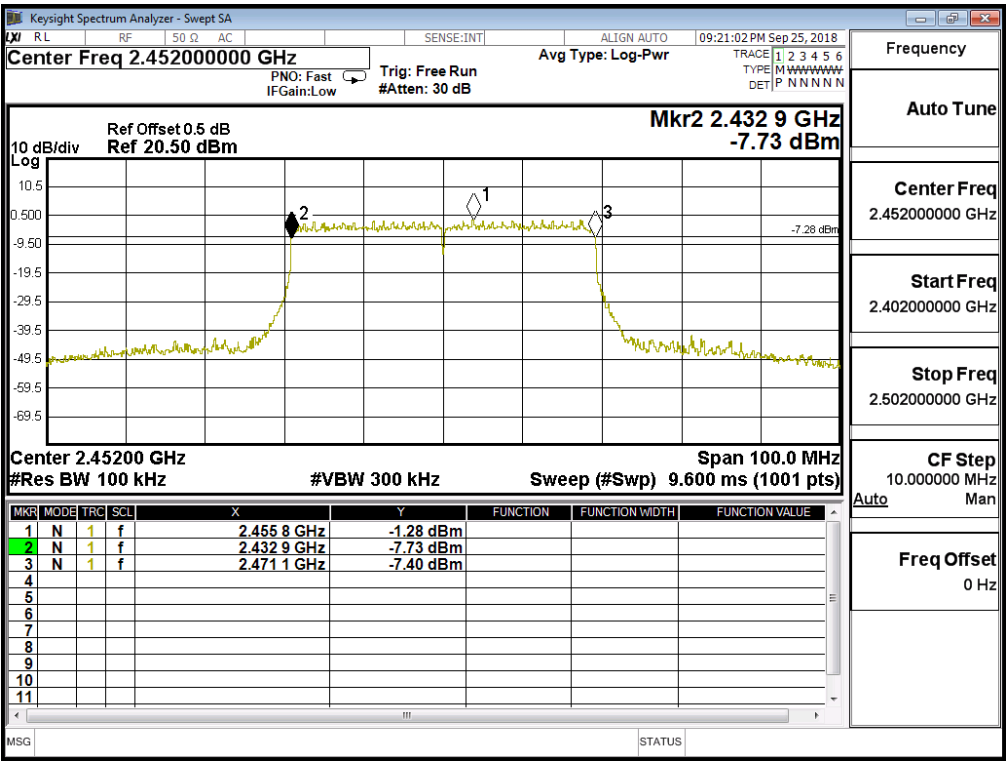


Figure Channel 10: (Chain A)

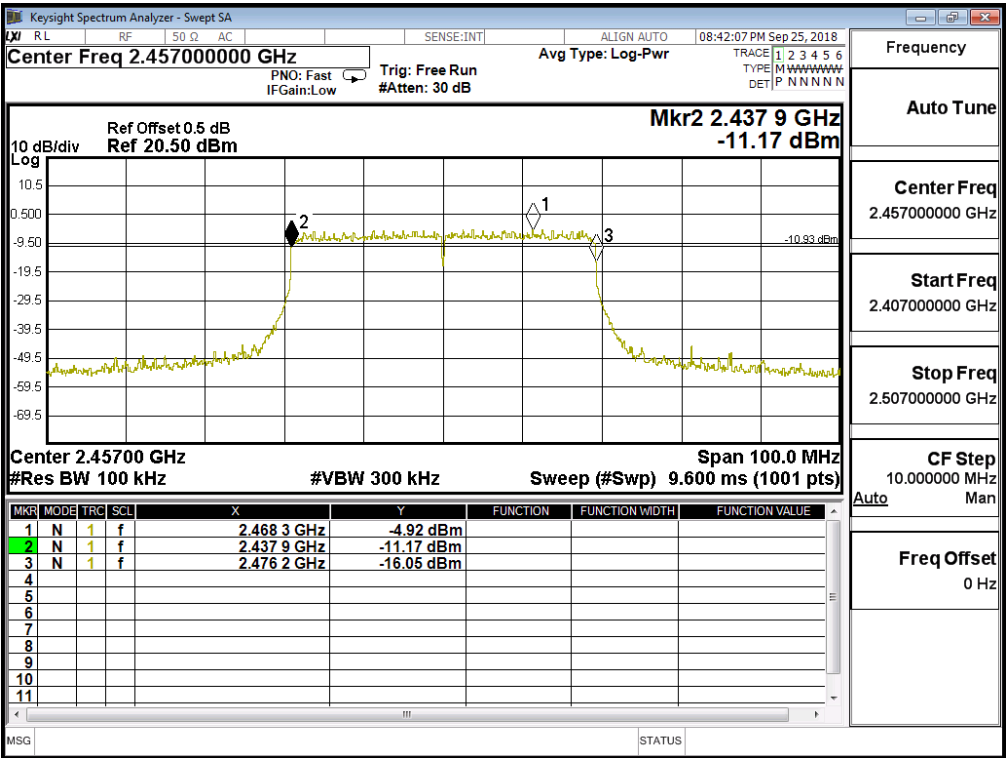


Figure Channel 10: (Chain B)

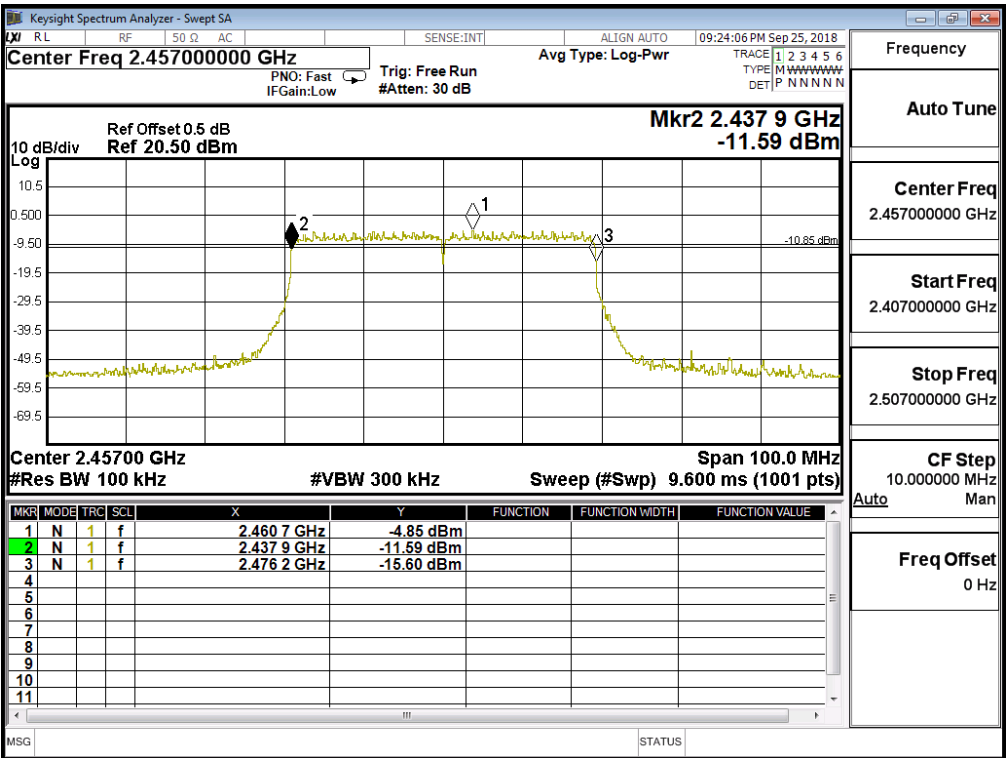


Figure Channel 11: (Chain A)

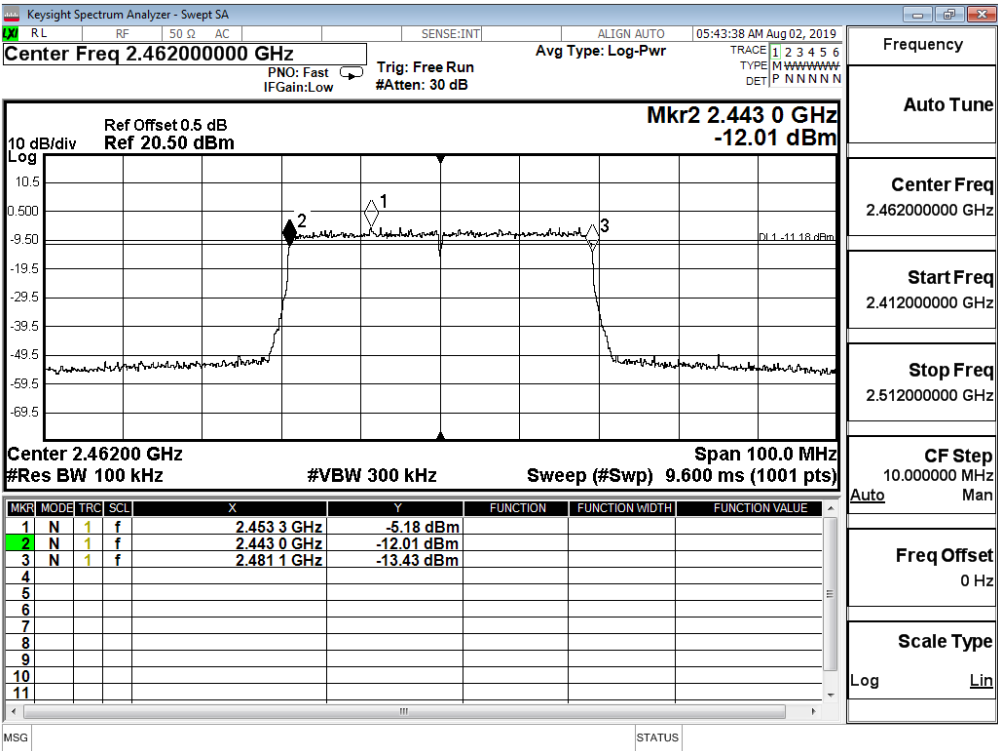
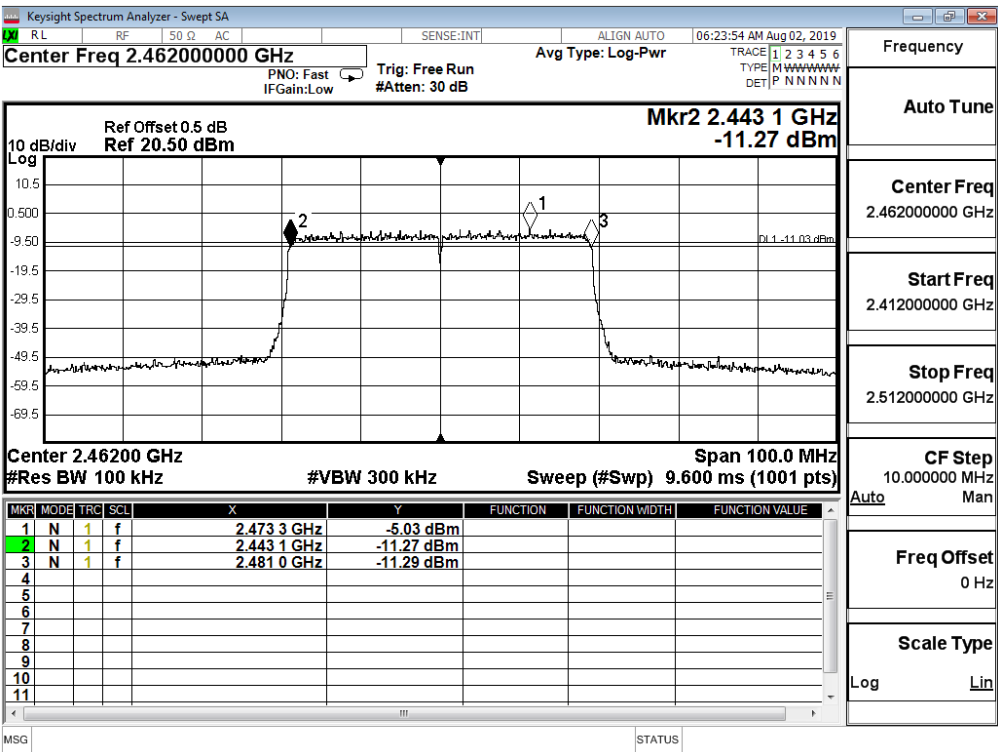


Figure Channel 11: (Chain B)



佔用頻道寬度測試結果:	PASS
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10. 發射電功率密度

10.1. 適用標準

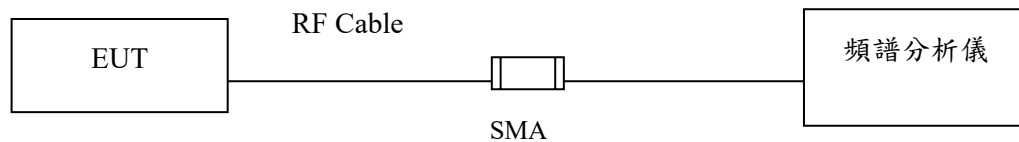
依據國家通訊傳播委員會低功率射頻器材技術規範之第 4.10.1.6 節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm，且應依 4.10.1.3 之方式降低功率頻譜密度限制值。

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 $\pm 1.23\text{dB}$ 。

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 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.78	$\leq 8\text{dBm}$	Pass
07	2442	7.54	$\leq 8\text{dBm}$	Pass
11	2462	7.94	$\leq 8\text{dBm}$	Pass
12	2467	7.67	$\leq 8\text{dBm}$	Pass
13	2472	6.64	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

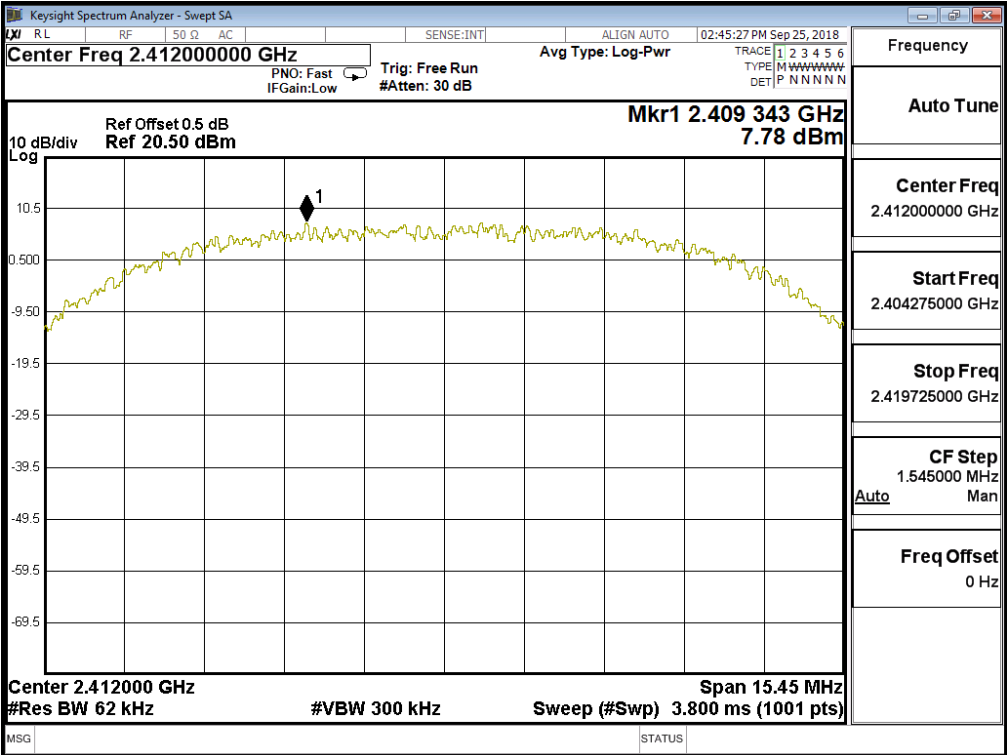


Figure Channel 07:

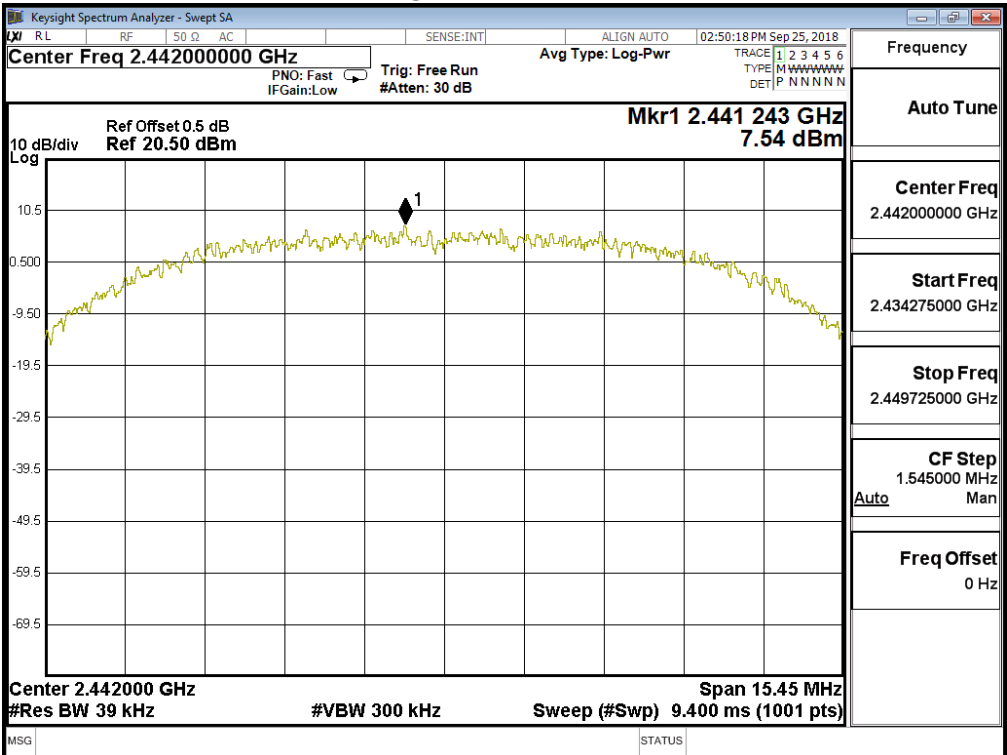


Figure Channel 11:

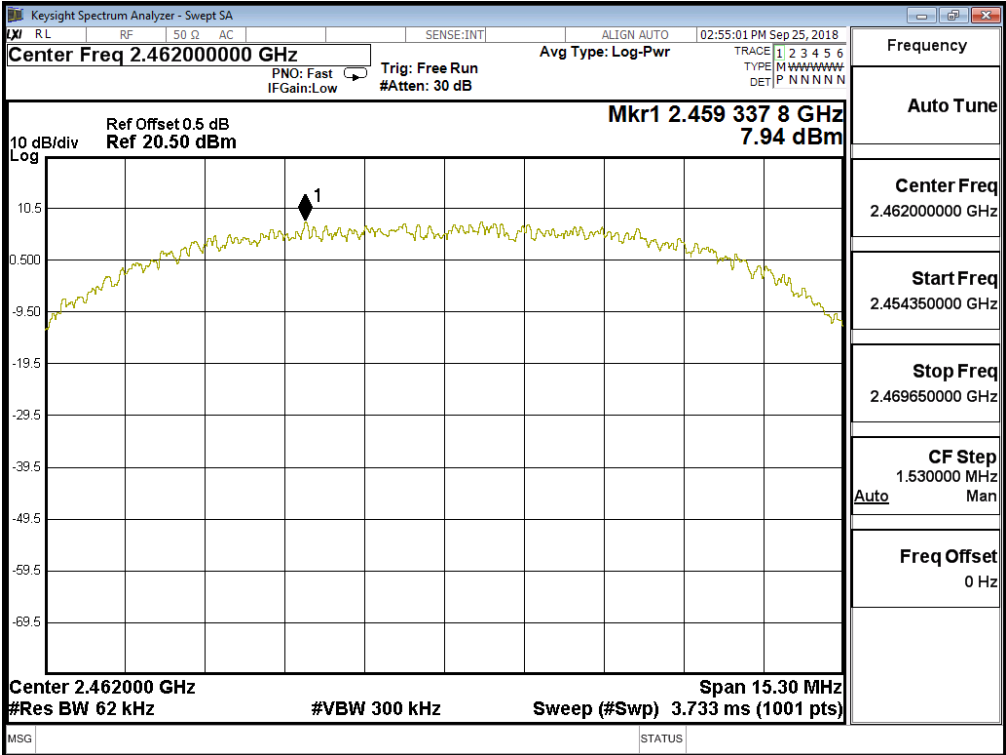


Figure Channel 12:

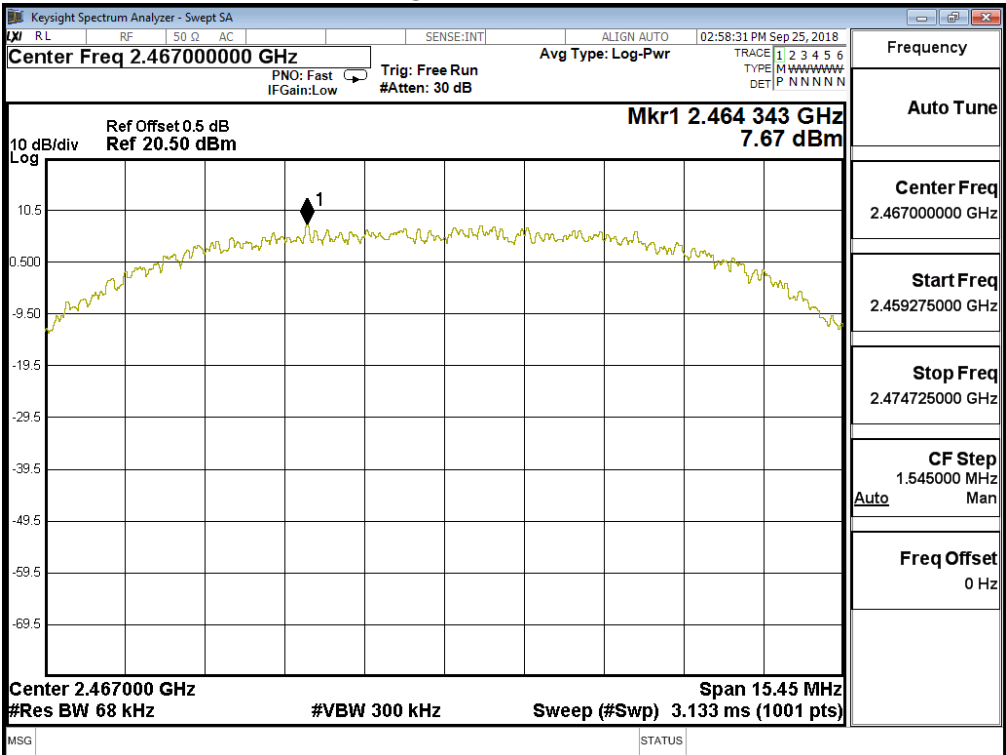
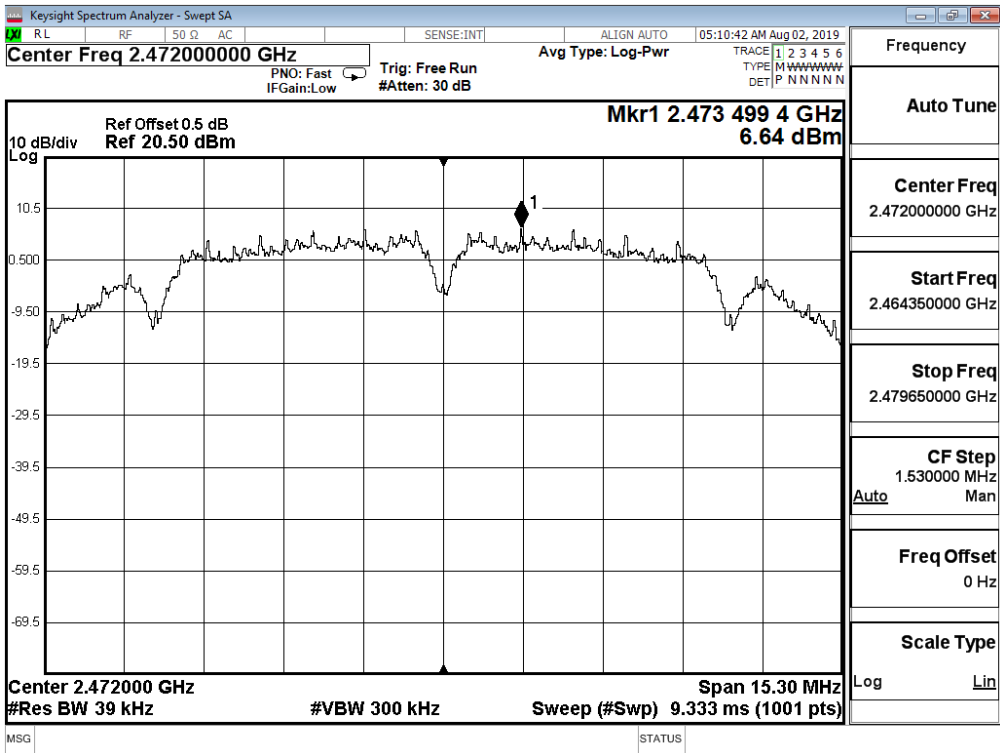


Figure Channel 13:



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 802.11g

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.91	$\leq 8\text{dBm}$	Pass
07	2442	7.71	$\leq 8\text{dBm}$	Pass
11	2462	7.2	$\leq 8\text{dBm}$	Pass
12	2467	4.17	$\leq 8\text{dBm}$	Pass
13	2472	0.15	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

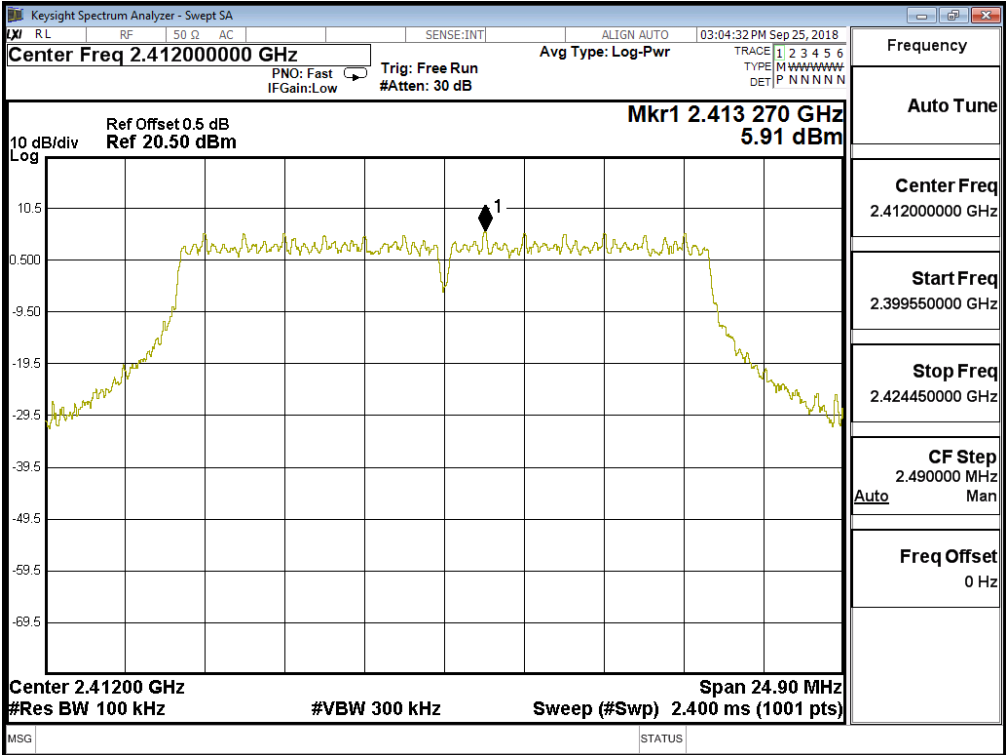


Figure Channel 07:

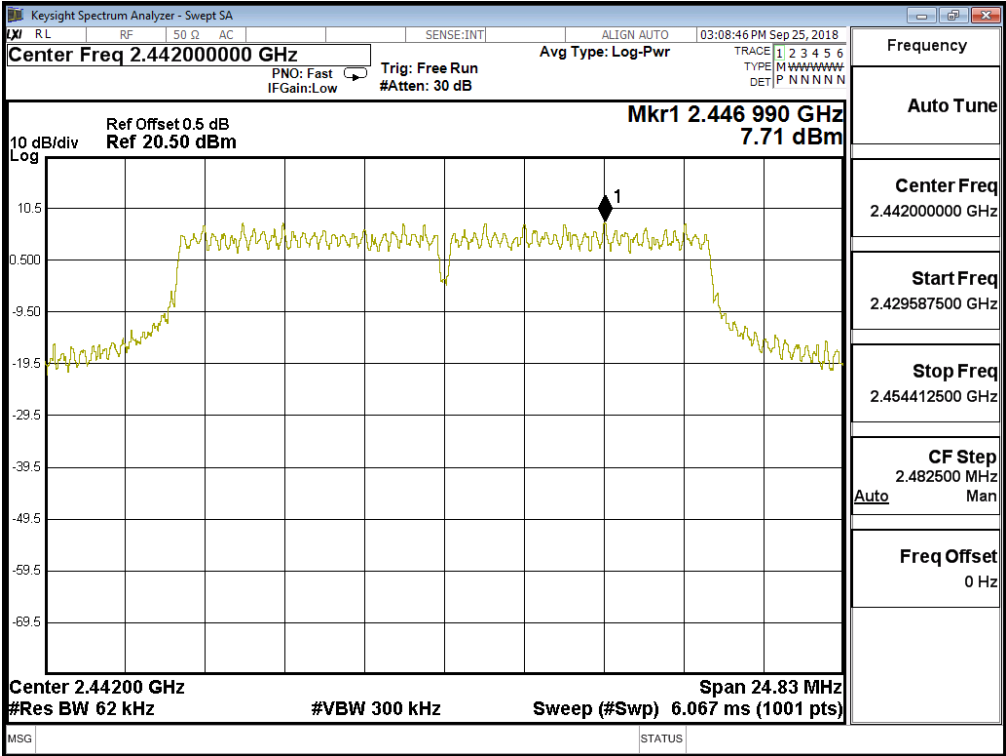


Figure Channel 11:

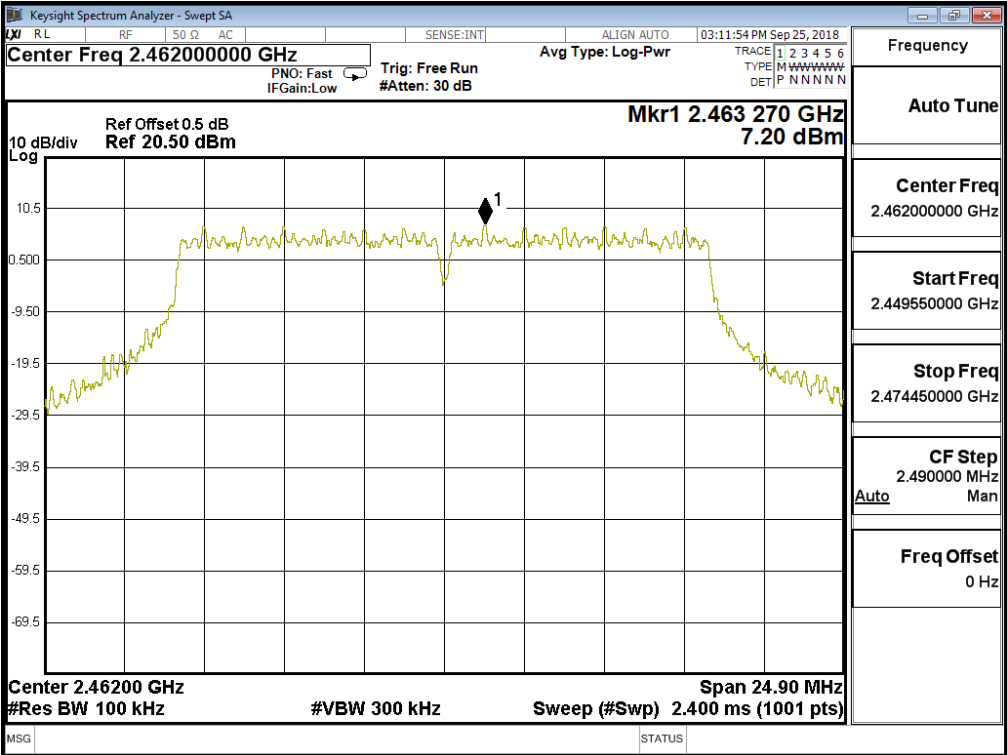


Figure Channel 12:

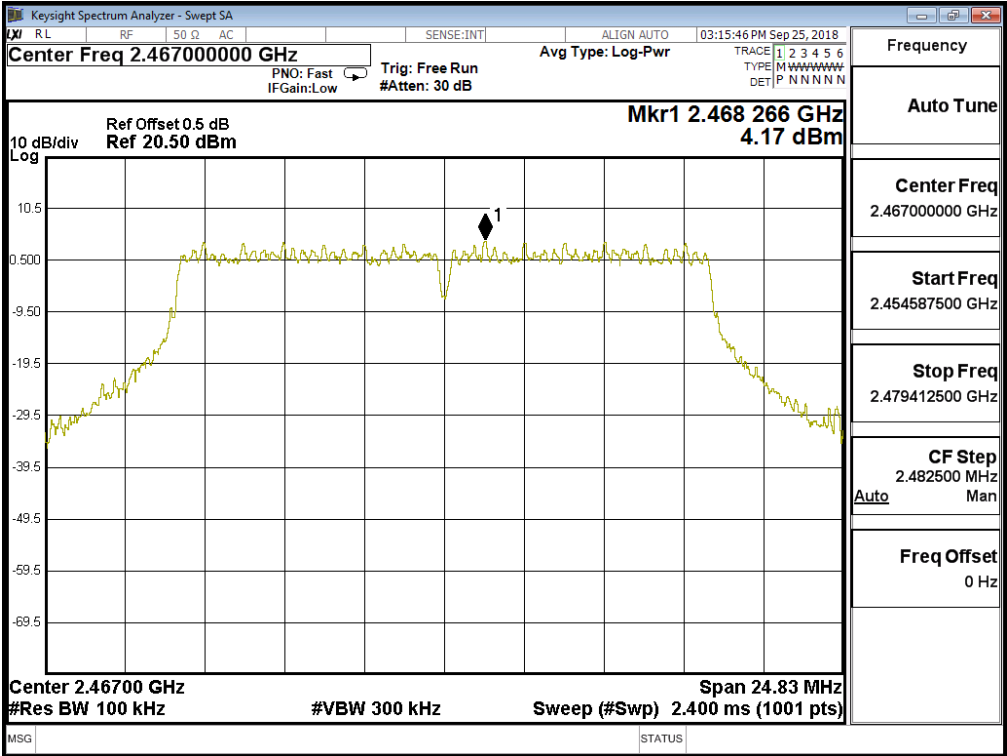
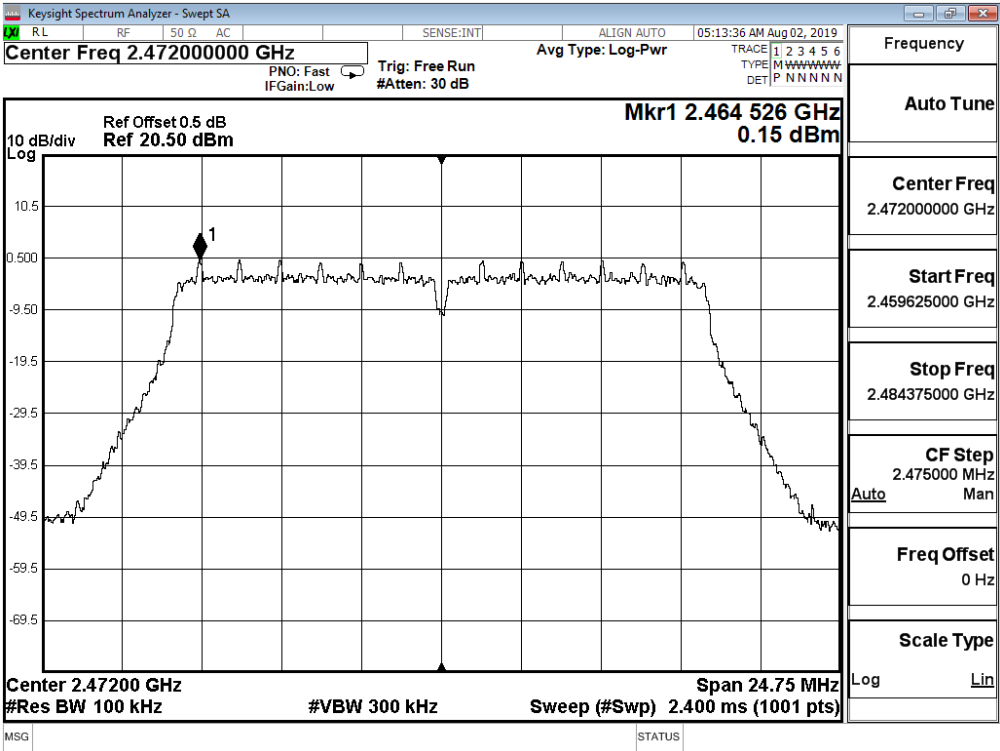


Figure Channel 13:



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 802.11n (20MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	6.05	$\leq 8\text{dBm}$	Pass
07	2442	7.85	$\leq 8\text{dBm}$	Pass
11	2462	7.07	$\leq 8\text{dBm}$	Pass
12	2467	4.13	$\leq 8\text{dBm}$	Pass
13	2472	0.02	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

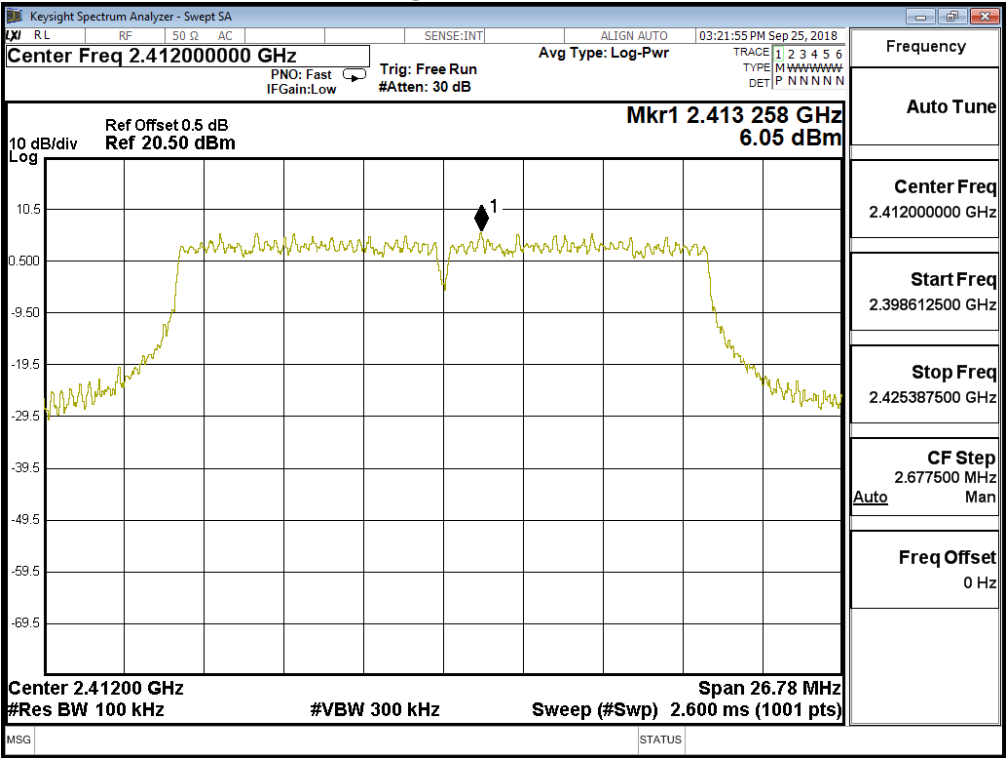


Figure Channel 07:

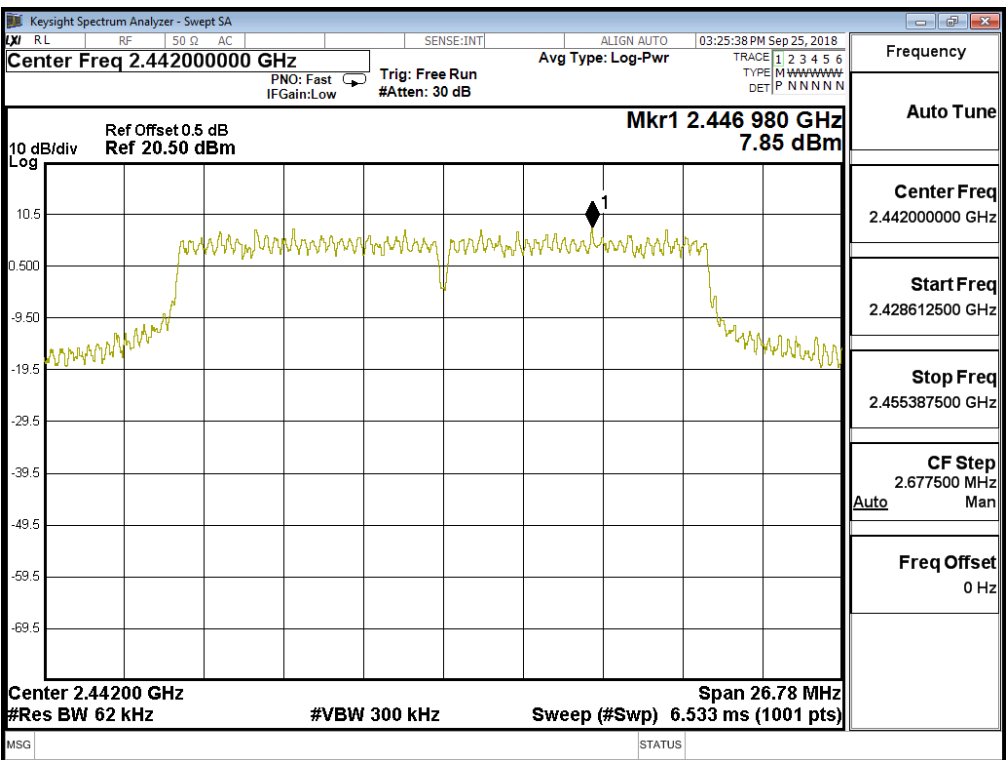


Figure Channel 11:

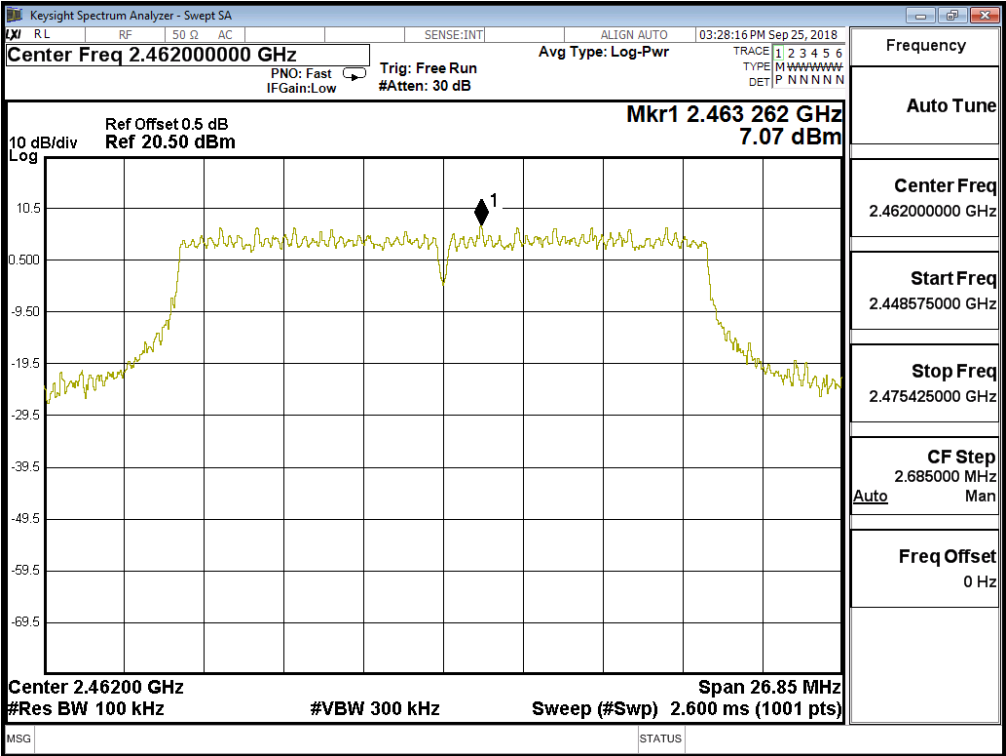


Figure Channel 12:

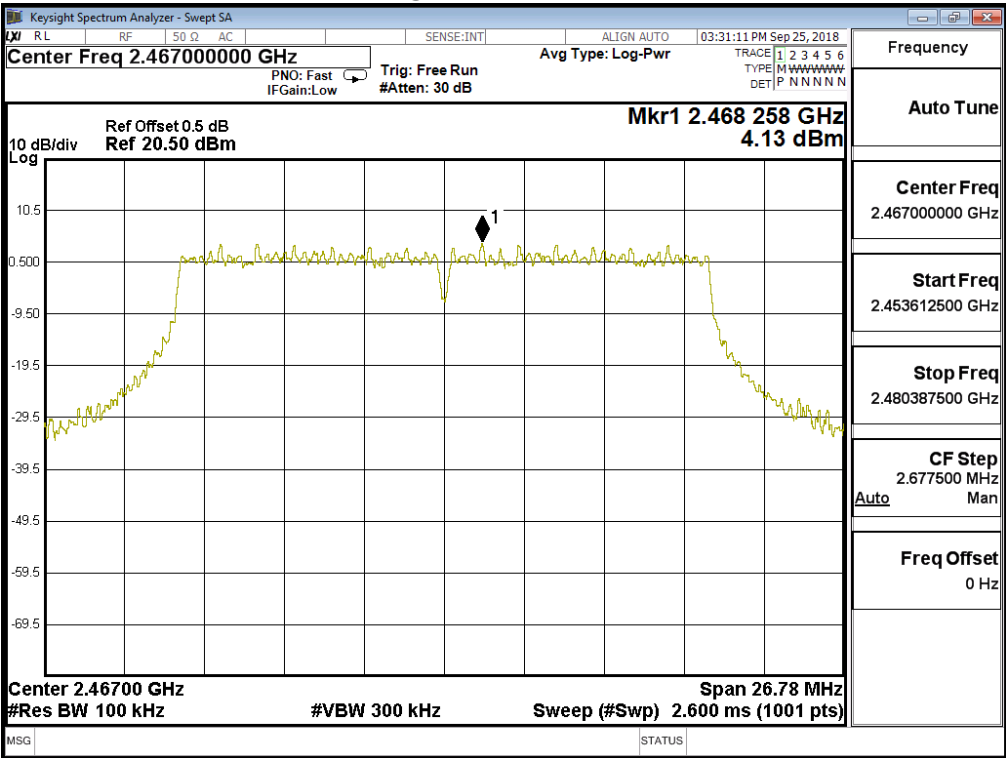
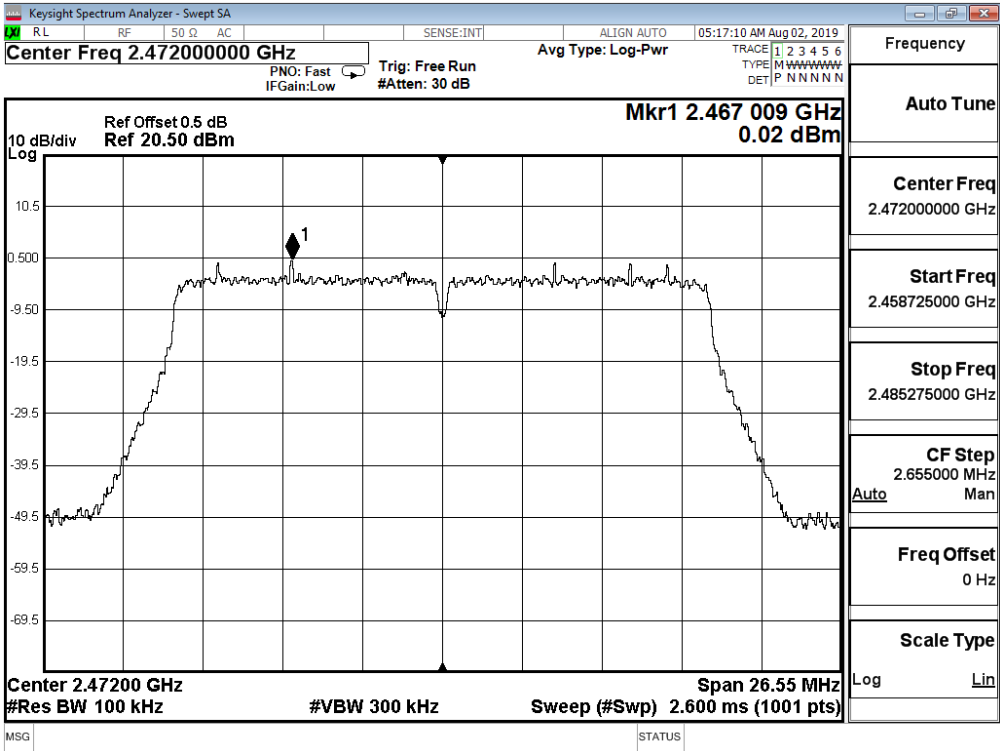


Figure Channel 13:



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 802.11n (40MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.42	$\leq 8\text{dBm}$	Pass
07	2442	2.79	$\leq 8\text{dBm}$	Pass
09	2452	2.02	$\leq 8\text{dBm}$	Pass
10	2457	-1.41	$\leq 8\text{dBm}$	Pass
11	2462	-3.12	$\leq 8\text{dBm}$	Pass

Figure Channel 03:

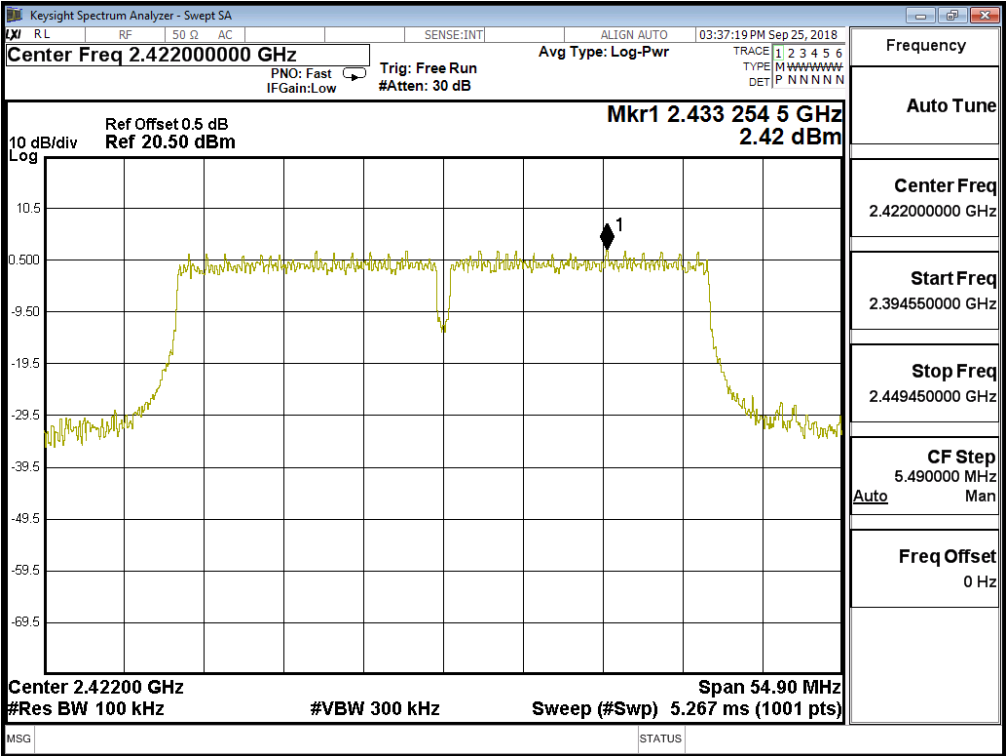


Figure Channel 07:

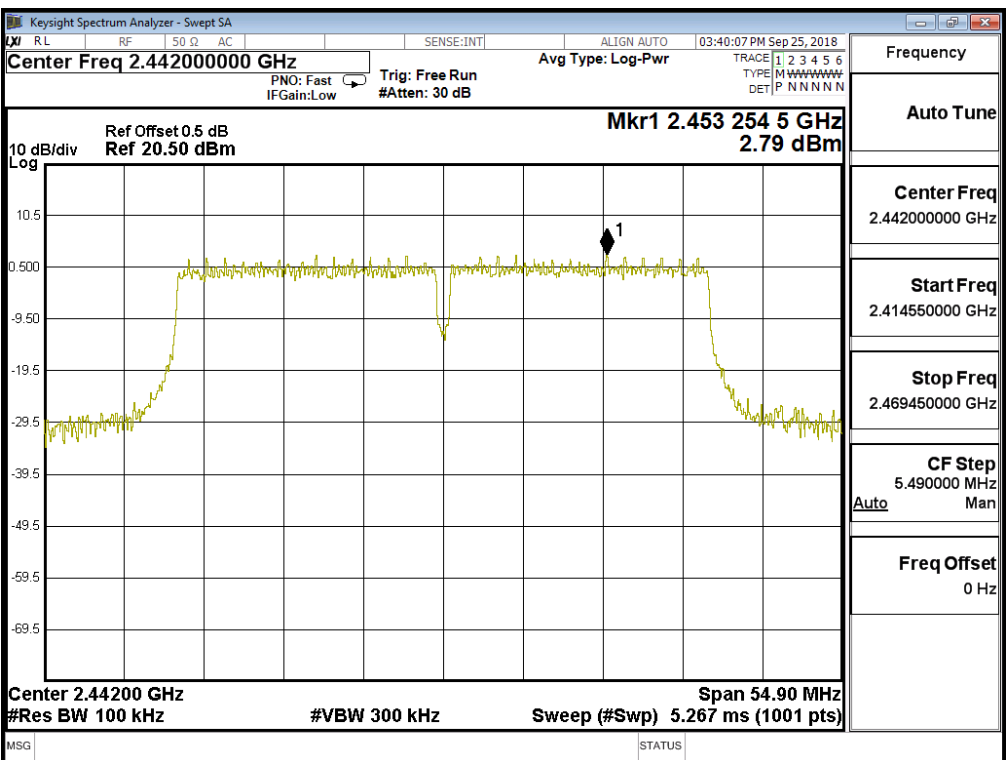


Figure Channel 09:

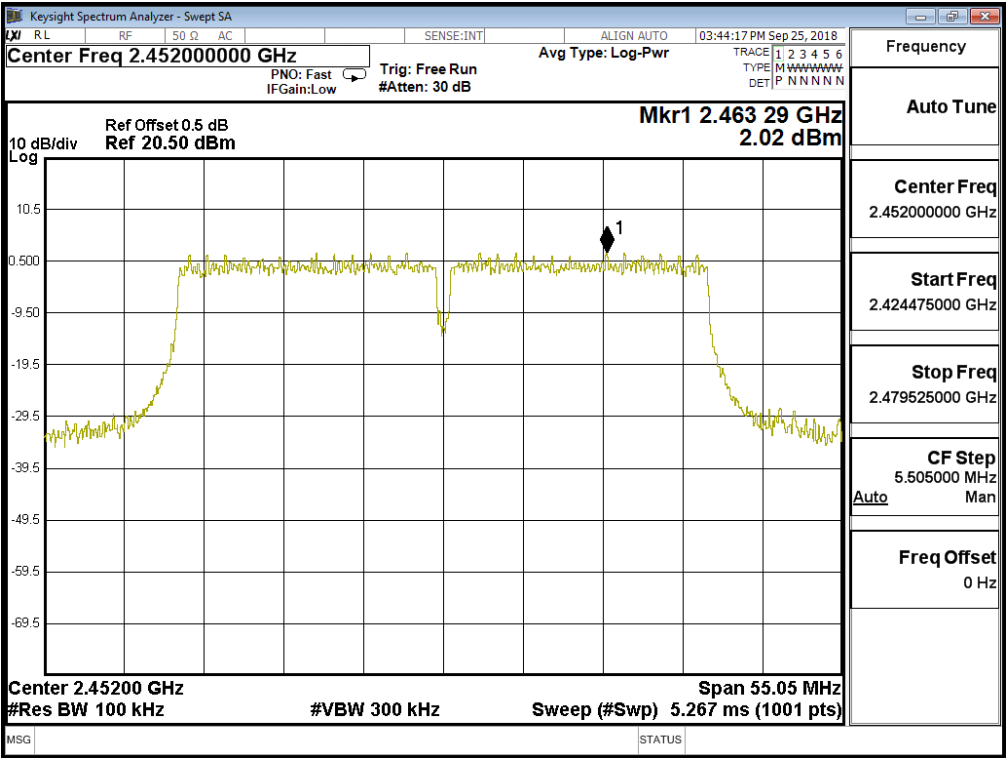


Figure Channel 10:

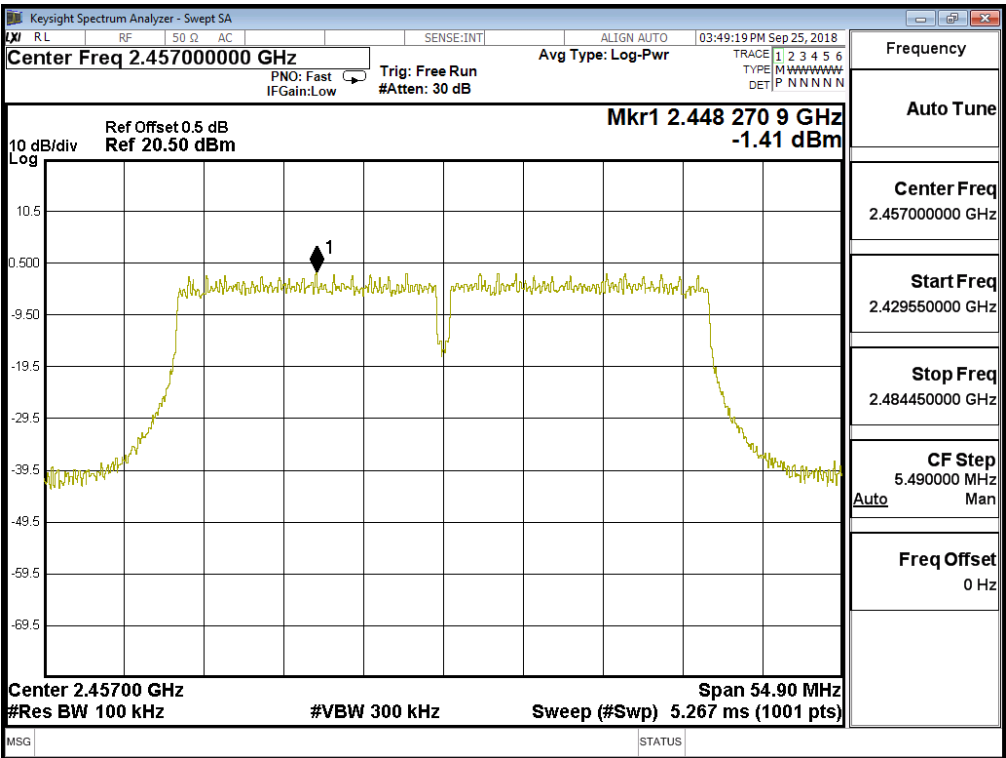
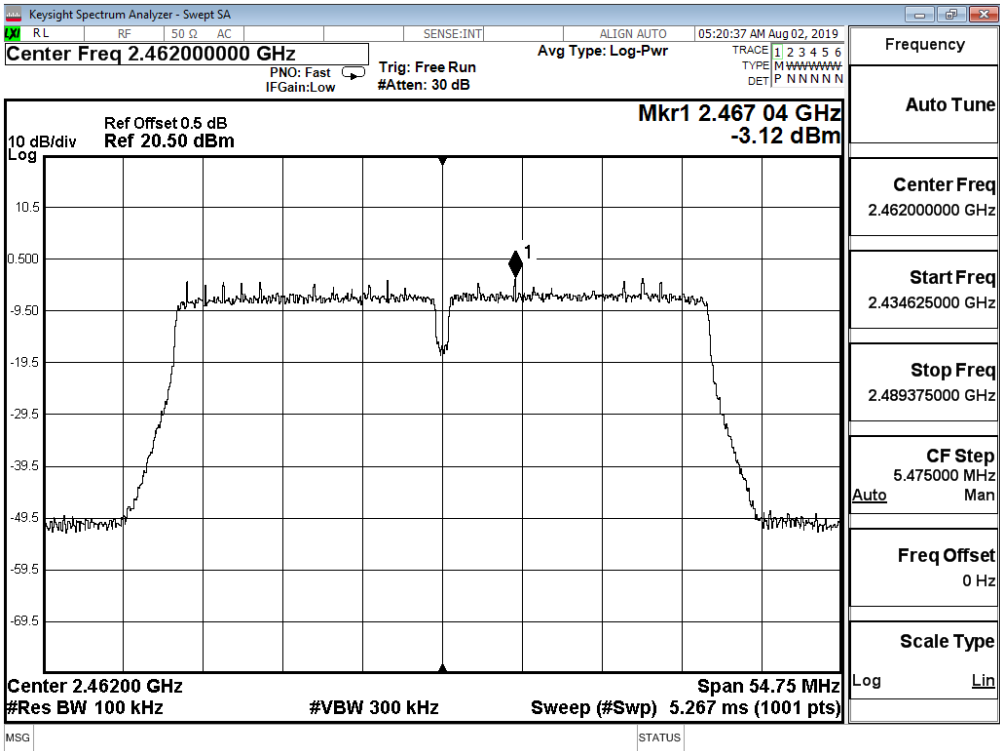


Figure Channel 11:



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 2: SISO B: 發射器 802.11b

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	7.90	$\leq 8\text{dBm}$	Pass
07	2442	7.82	$\leq 8\text{dBm}$	Pass
11	2462	7.21	$\leq 8\text{dBm}$	Pass
12	2467	7.64	$\leq 8\text{dBm}$	Pass
13	2472	7.47	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

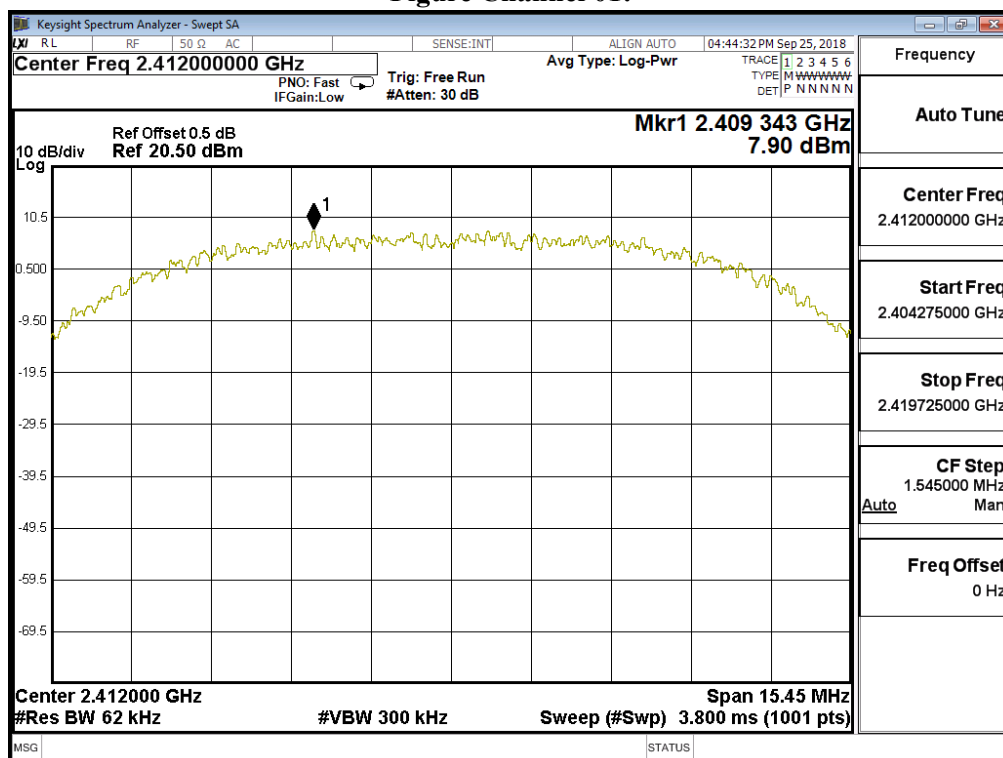


Figure Channel 07:

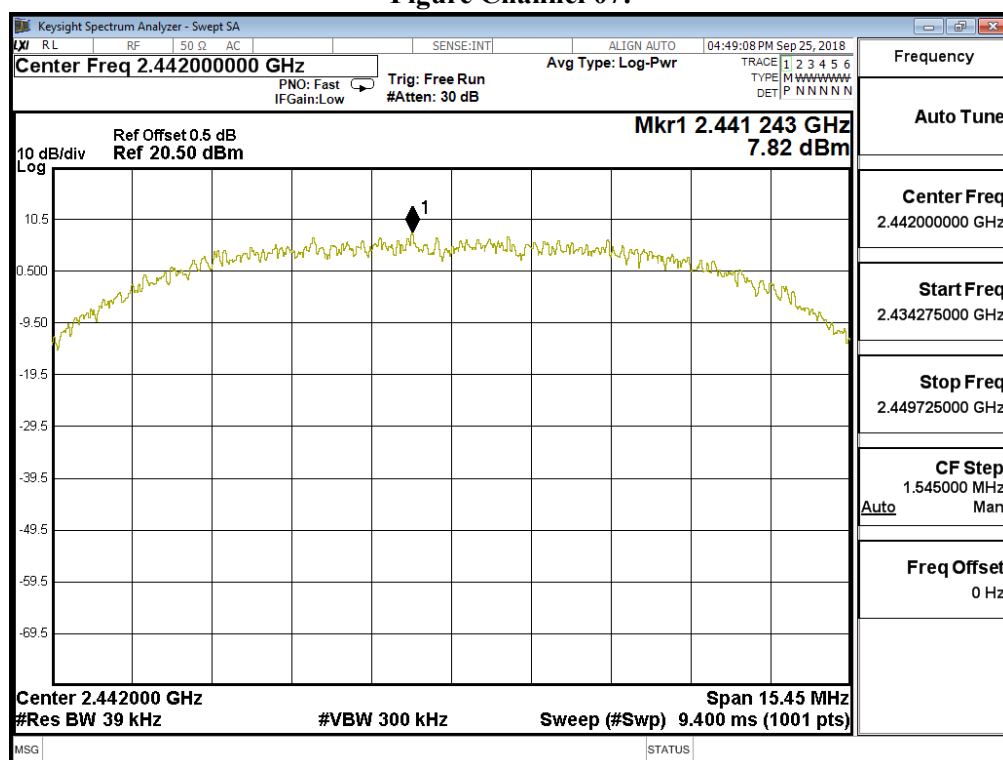


Figure Channel 11:

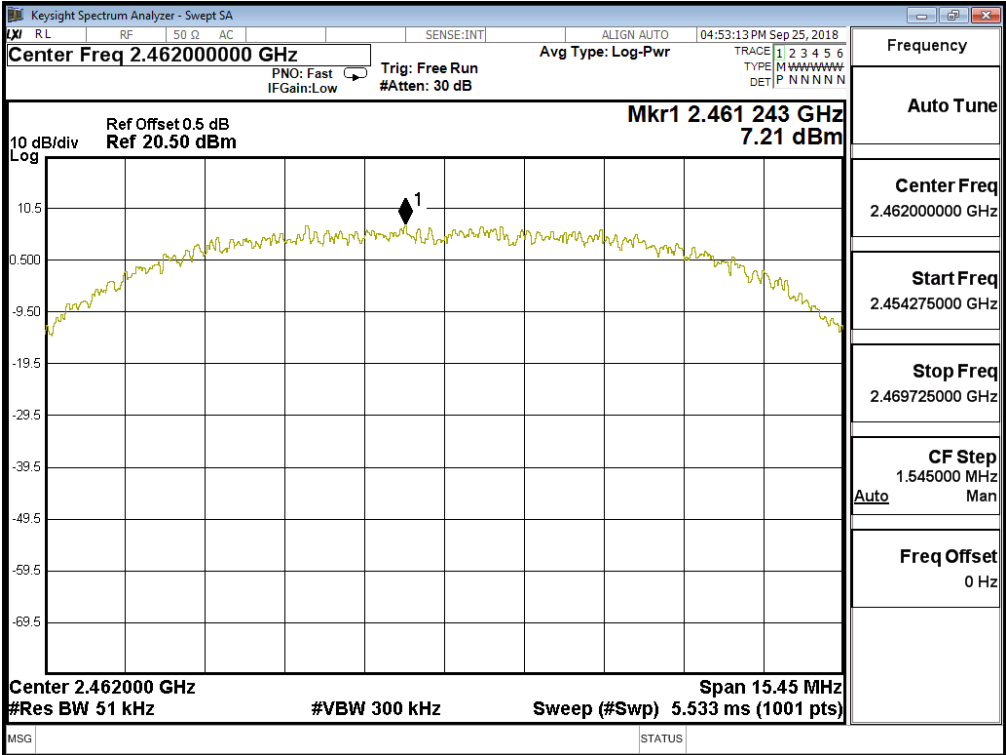


Figure Channel 12:

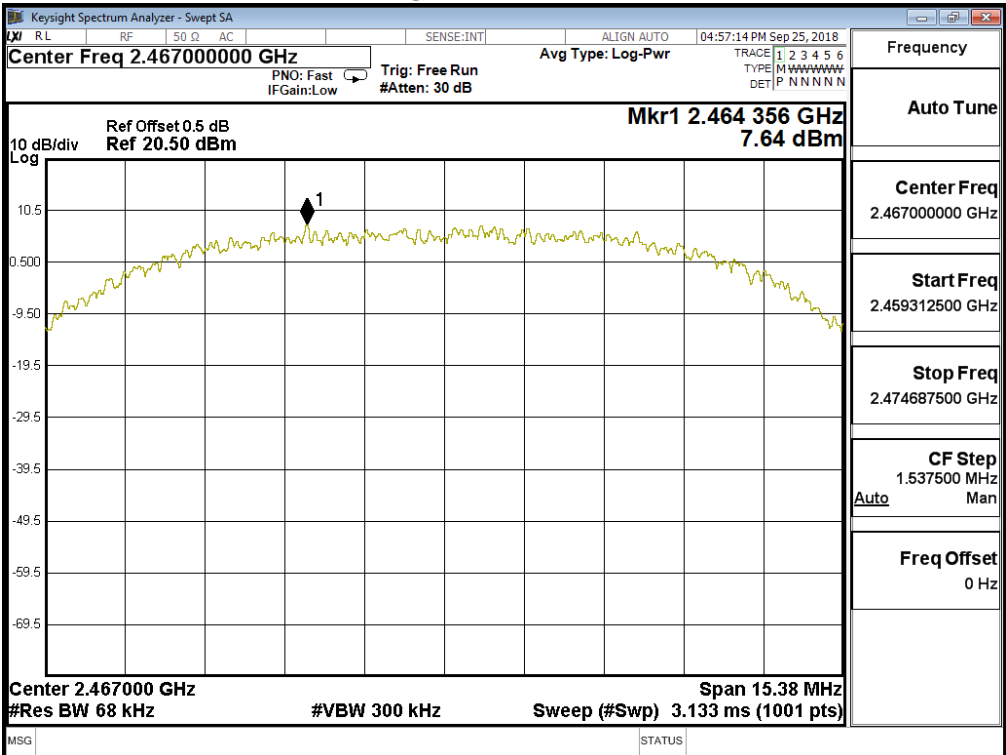
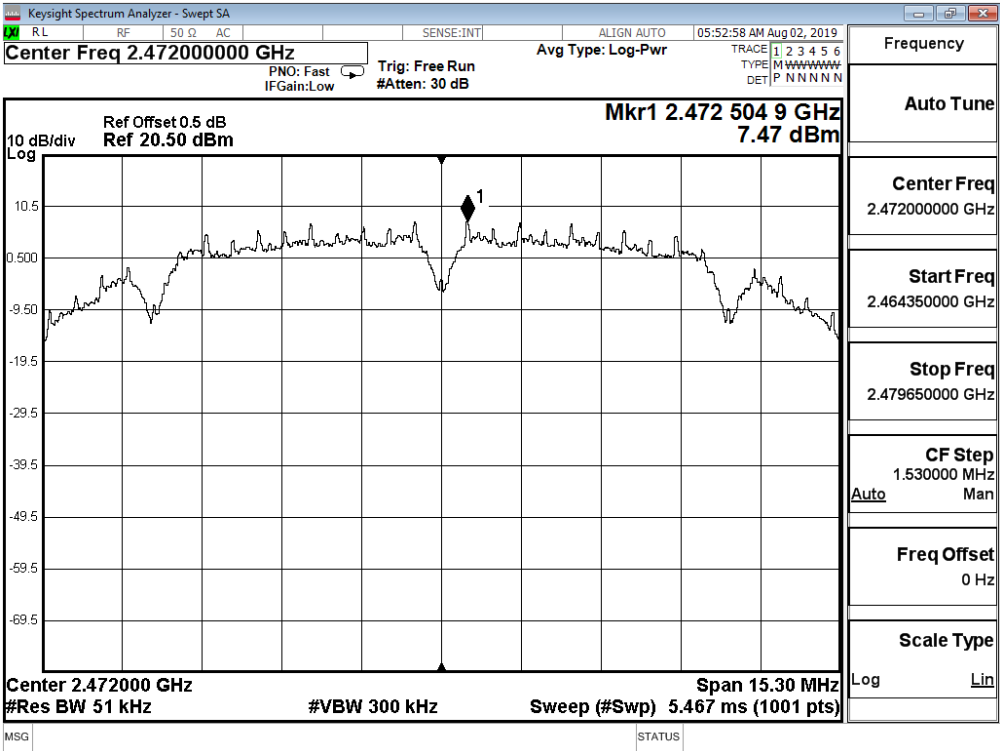


Figure Channel 13:



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 2: SISO B: 發射器 802.11g

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.96	$\leq 8\text{dBm}$	Pass
07	2442	7.31	$\leq 8\text{dBm}$	Pass
11	2462	7.13	$\leq 8\text{dBm}$	Pass
12	2467	4.08	$\leq 8\text{dBm}$	Pass
13	2472	0.49	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

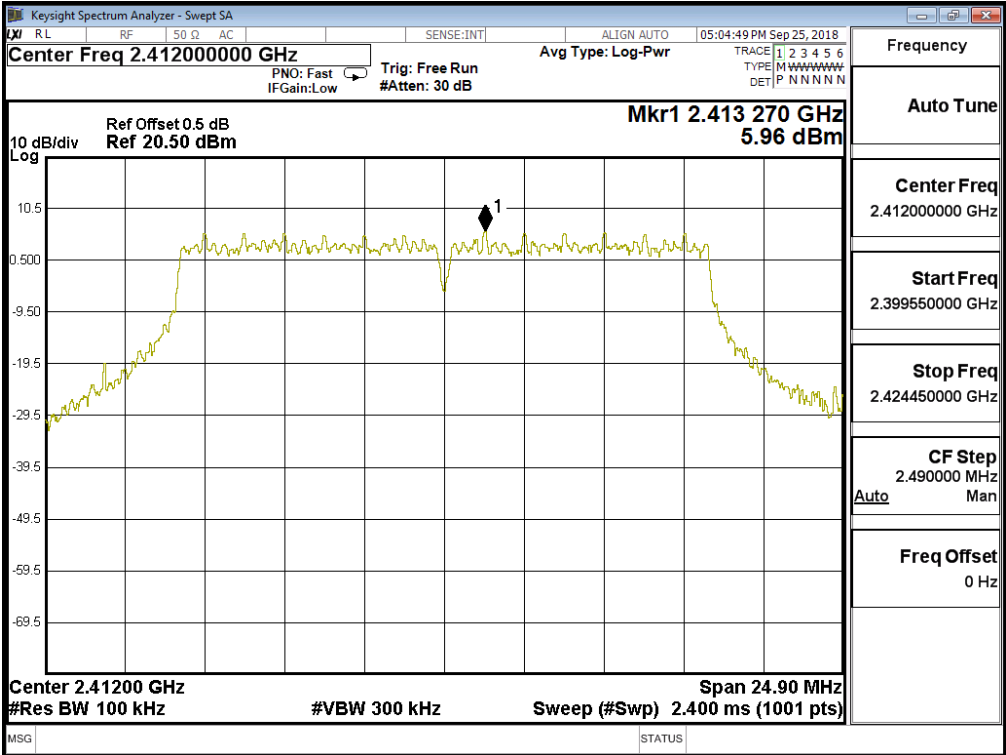


Figure Channel 07:

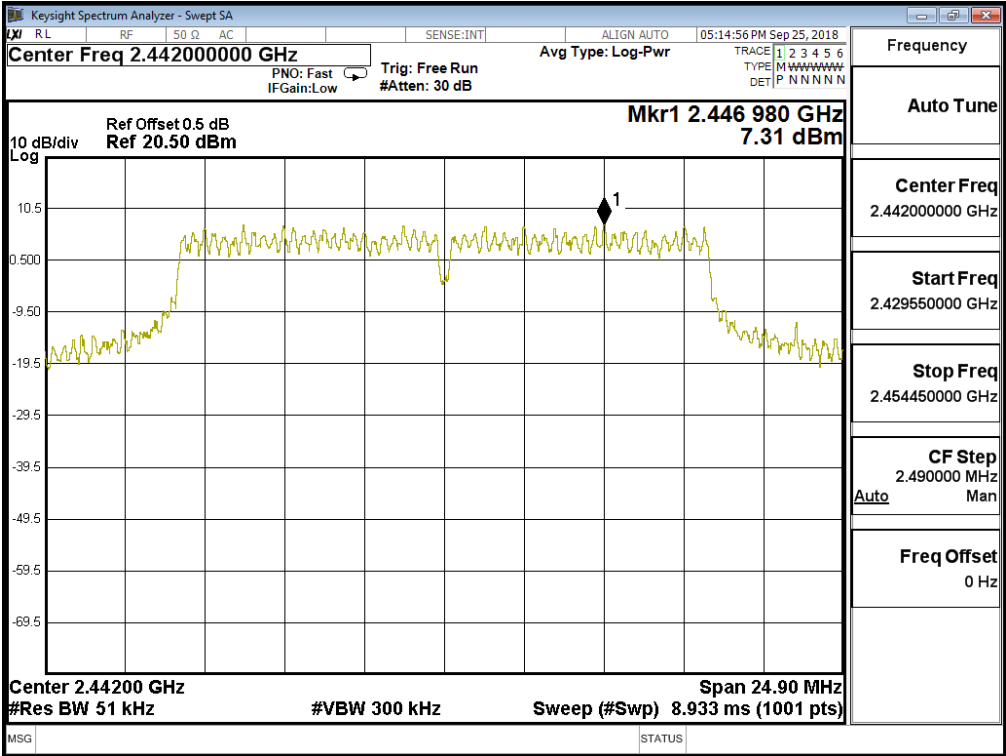


Figure Channel 11:

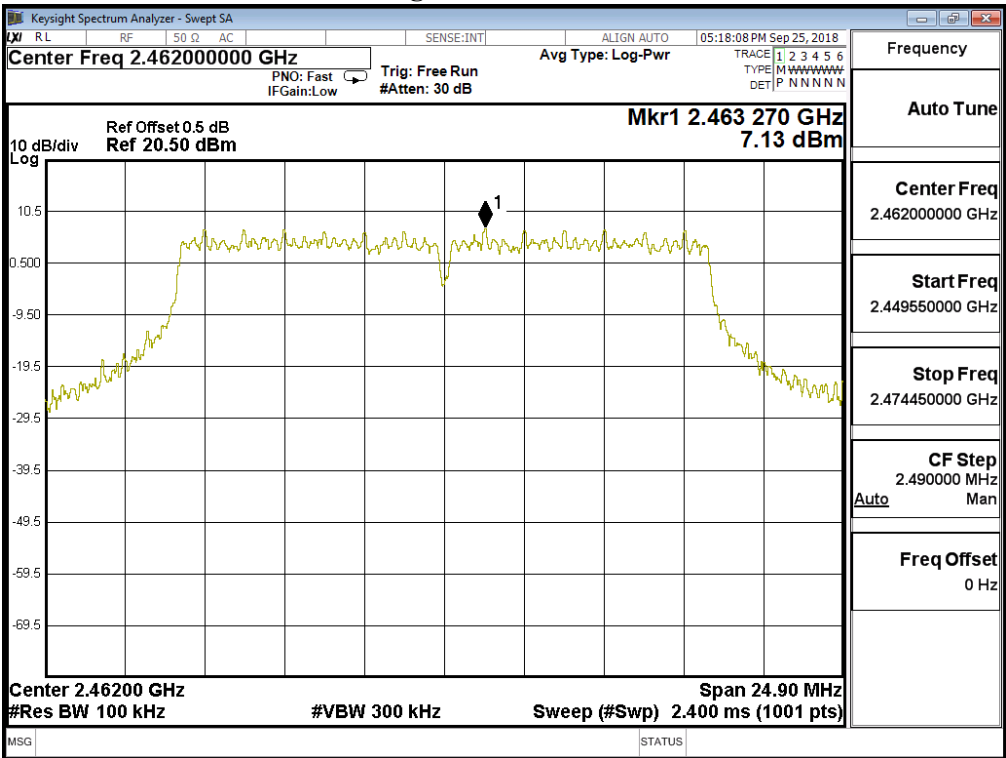


Figure Channel 12:

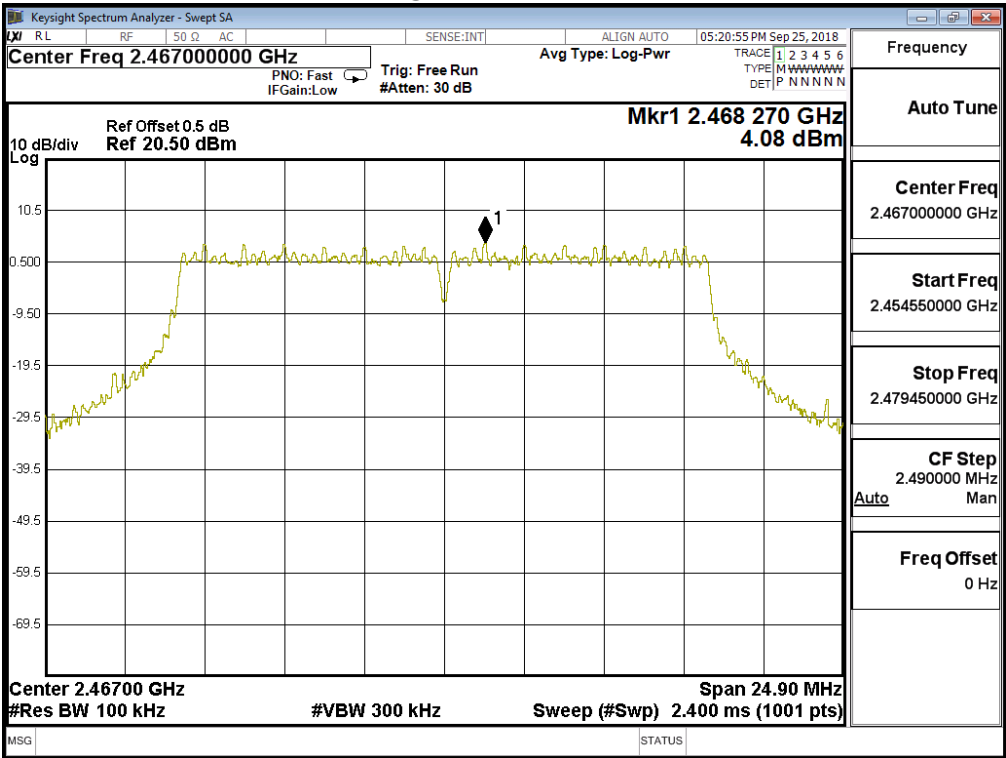
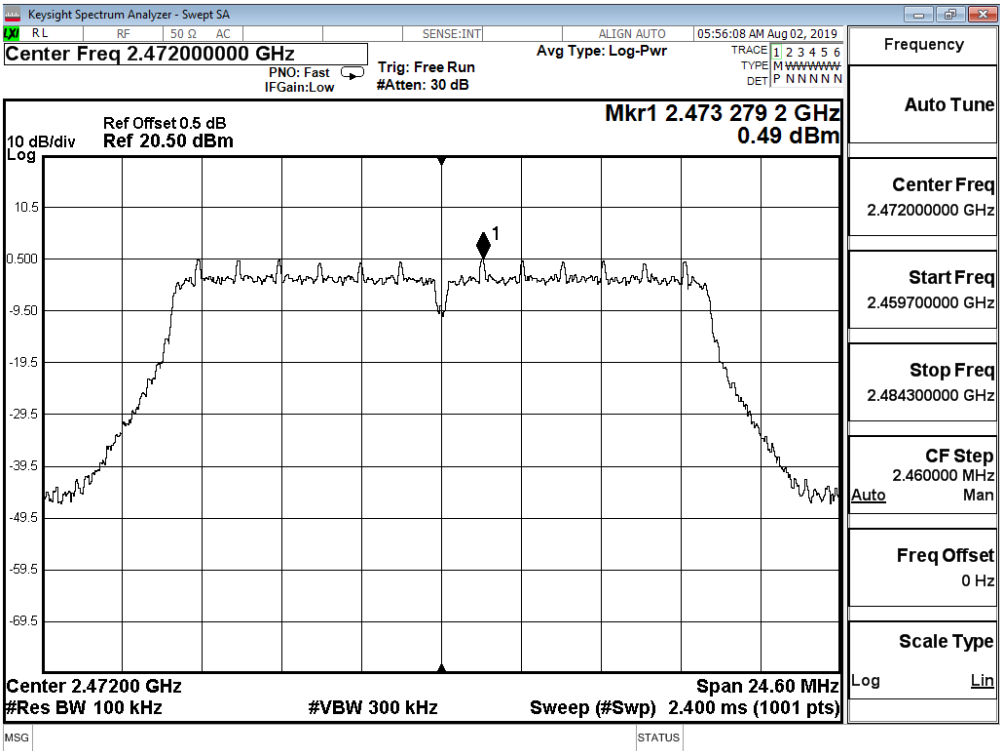


Figure Channel 13:



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 2: SISO B: 發射器 802.11n (20MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.86	$\leq 8\text{dBm}$	Pass
07	2442	7.98	$\leq 8\text{dBm}$	Pass
11	2462	7.09	$\leq 8\text{dBm}$	Pass
12	2467	4.05	$\leq 8\text{dBm}$	Pass
13	2472	-0.23	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

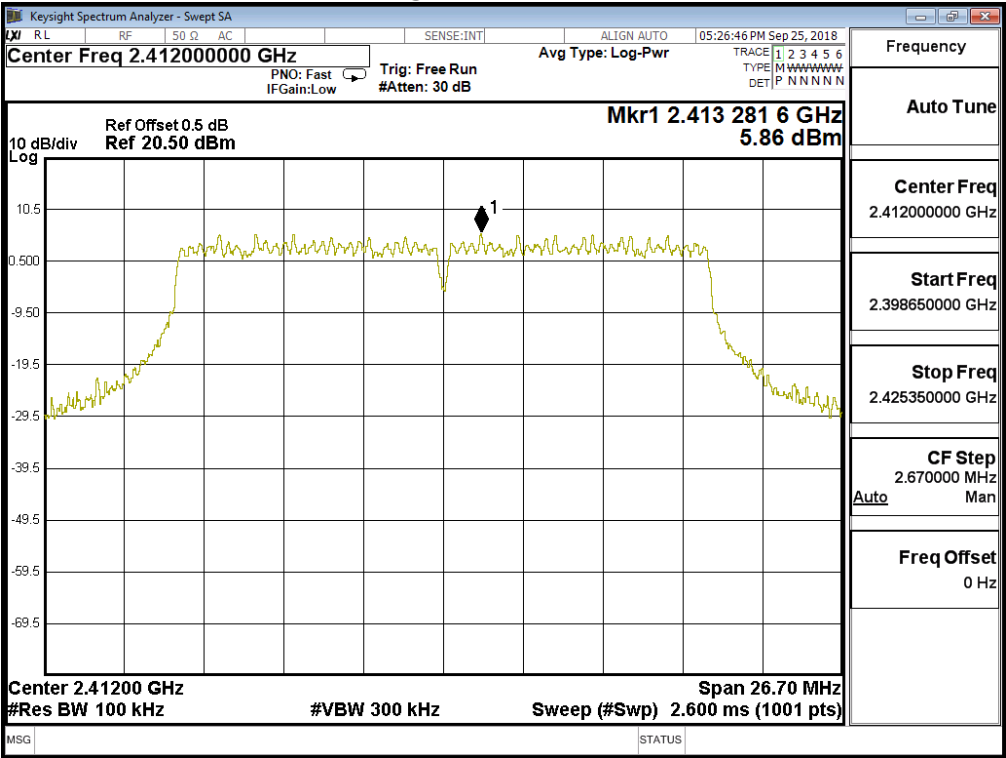


Figure Channel 07:

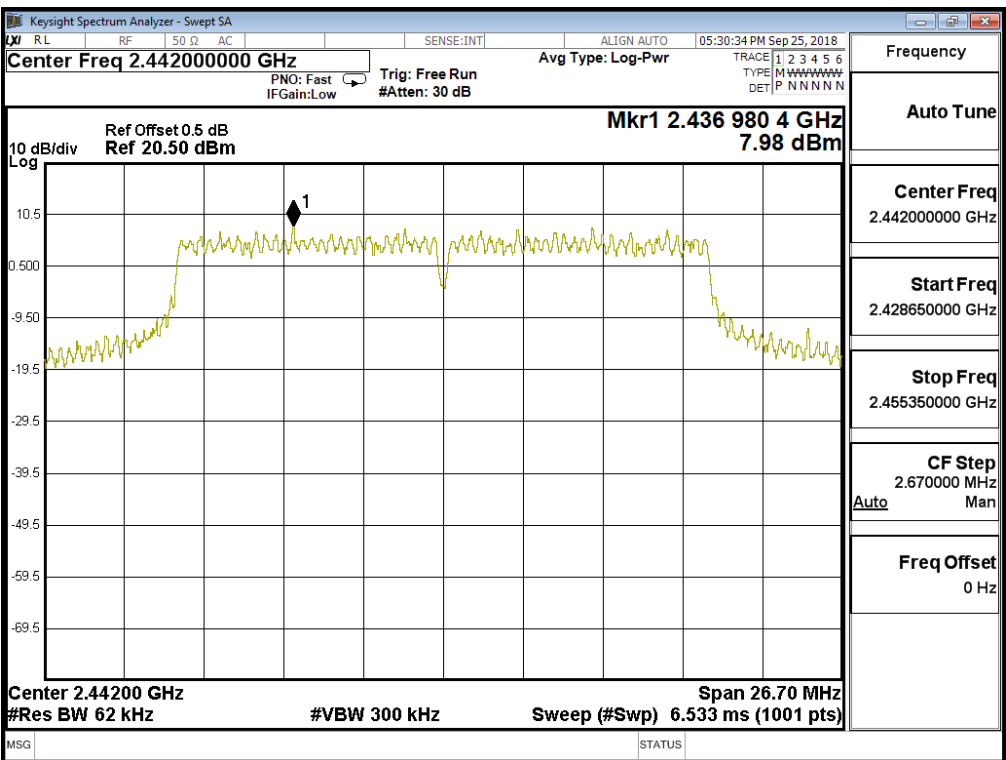


Figure Channel 11:

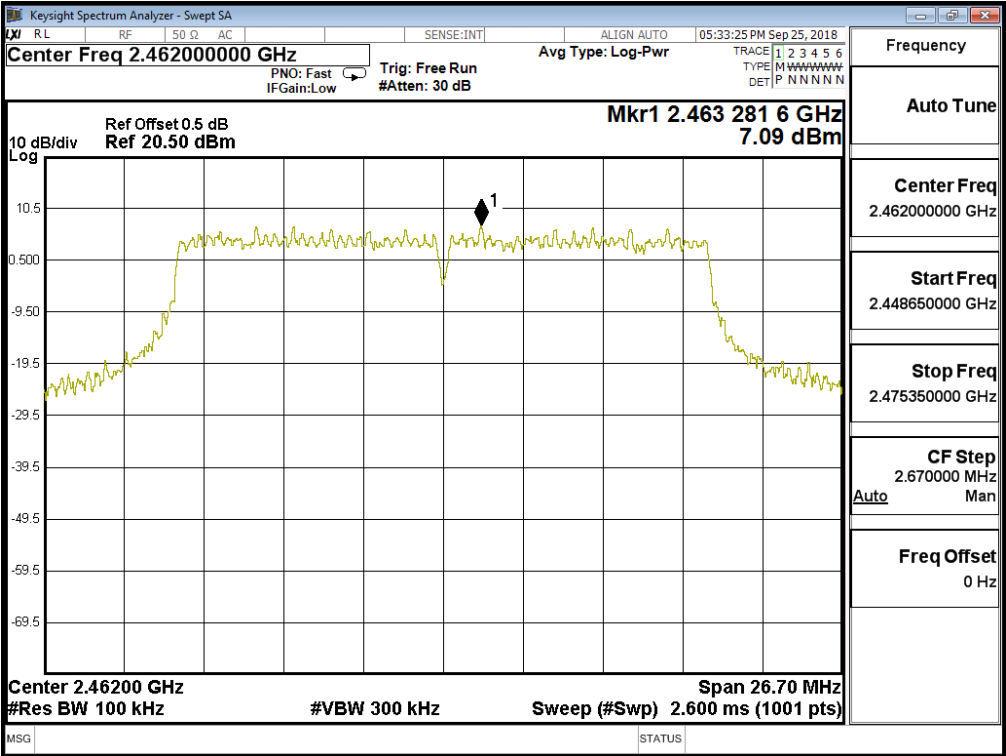


Figure Channel 12:

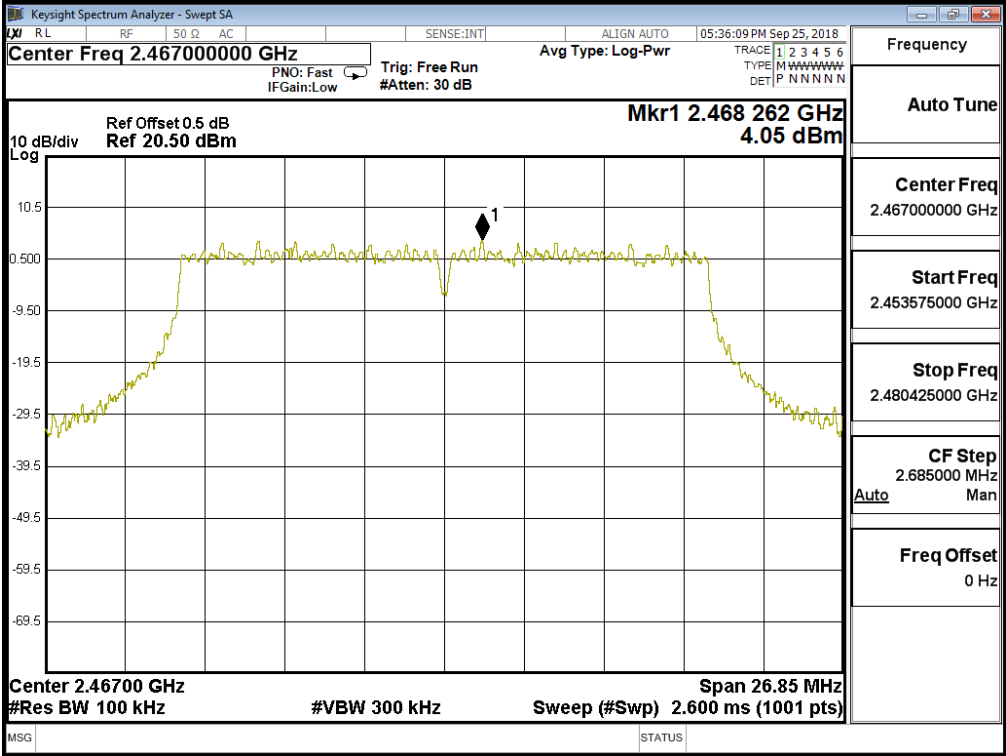
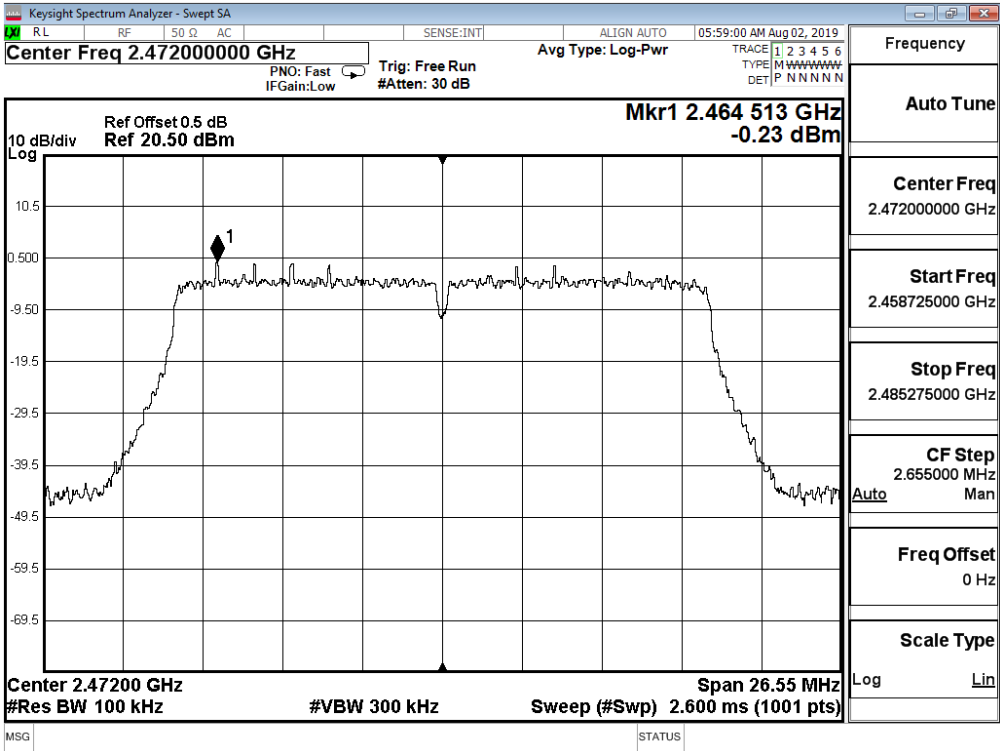


Figure Channel 13:



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 2: SISO B: 發射器 802.11n (40MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.30	$\leq 8\text{dBm}$	Pass
07	2442	2.86	$\leq 8\text{dBm}$	Pass
09	2452	2.02	$\leq 8\text{dBm}$	Pass
10	2457	-1.76	$\leq 8\text{dBm}$	Pass
11	2462	-2.22	$\leq 8\text{dBm}$	Pass

Figure Channel 03:

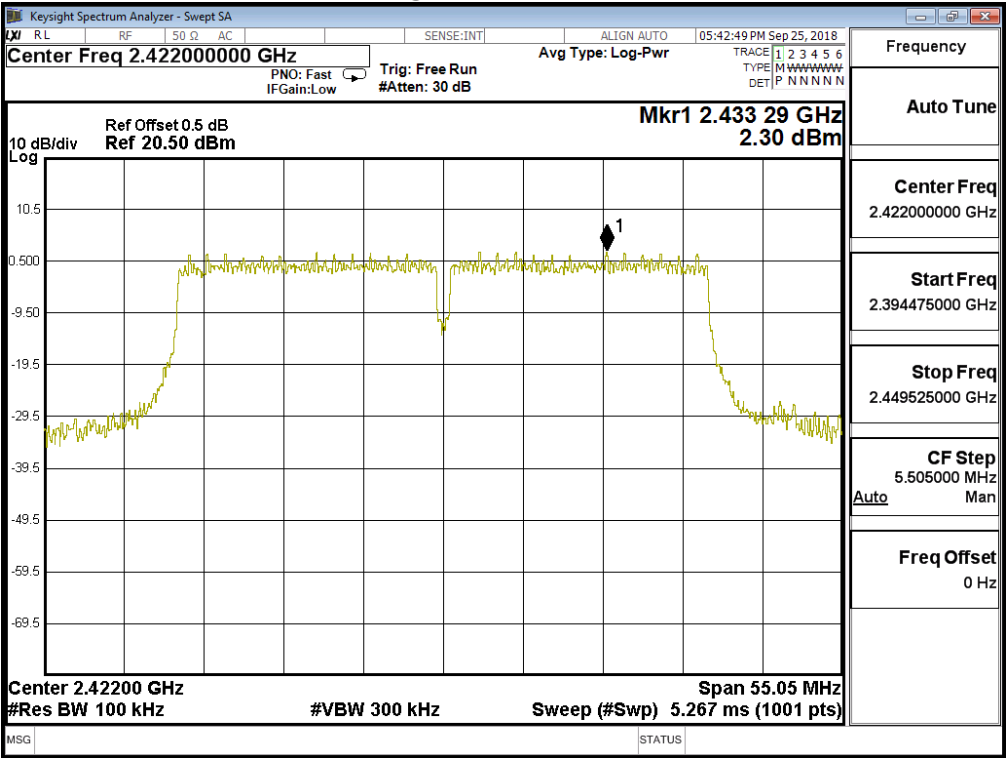


Figure Channel 07:

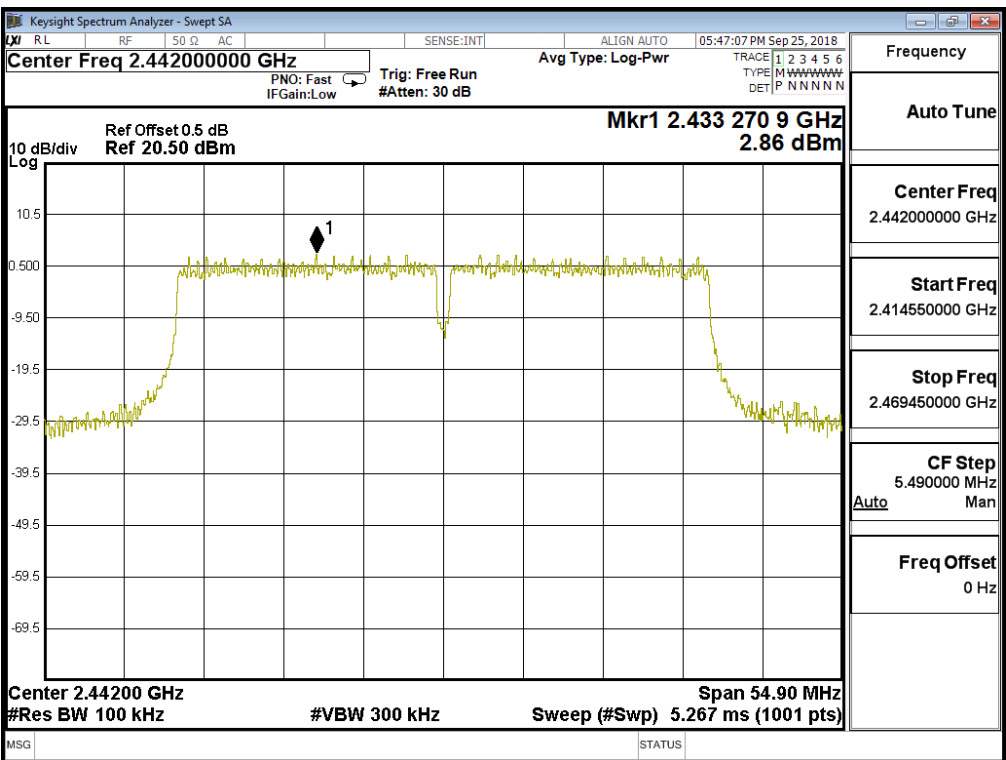


Figure Channel 09:

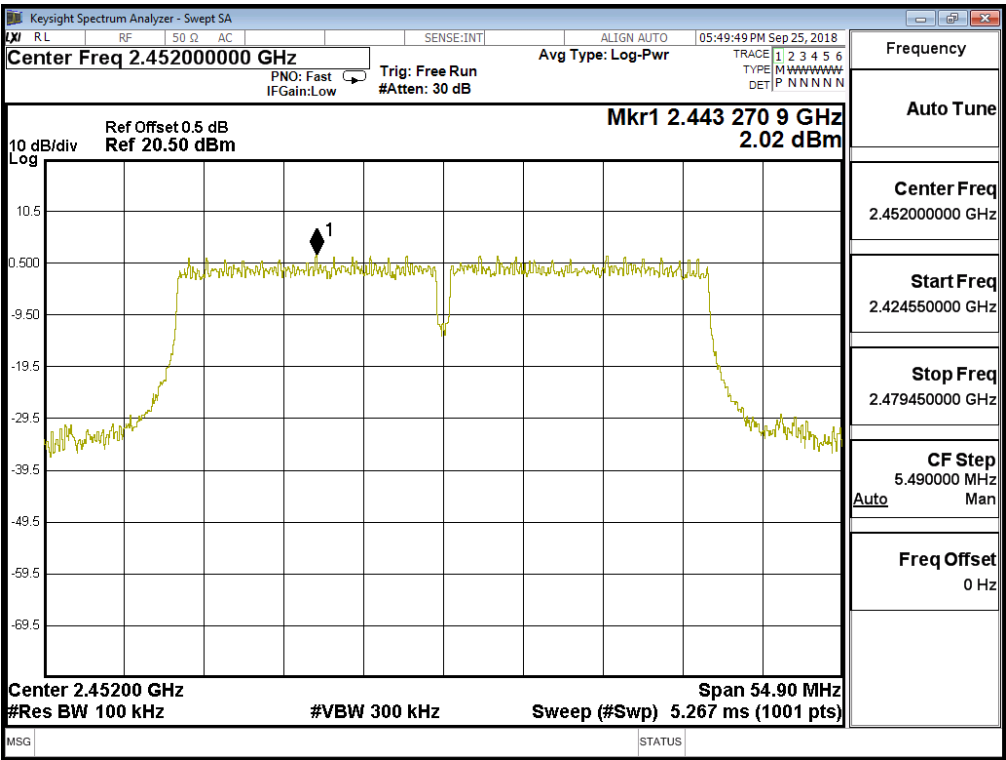


Figure Channel 10:

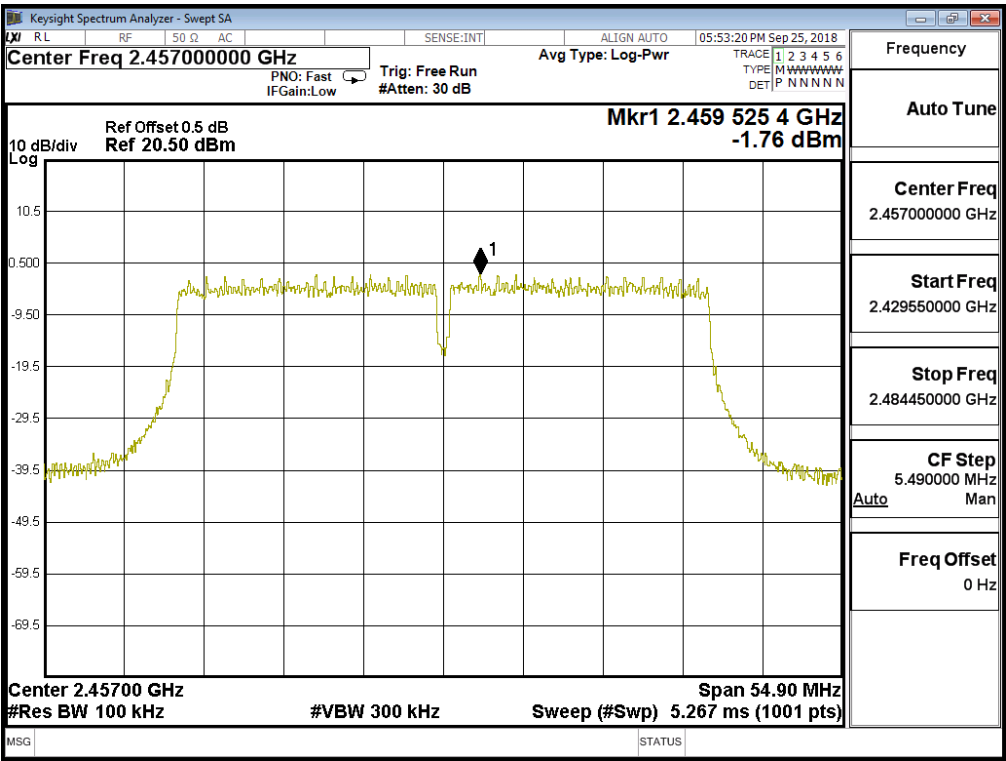
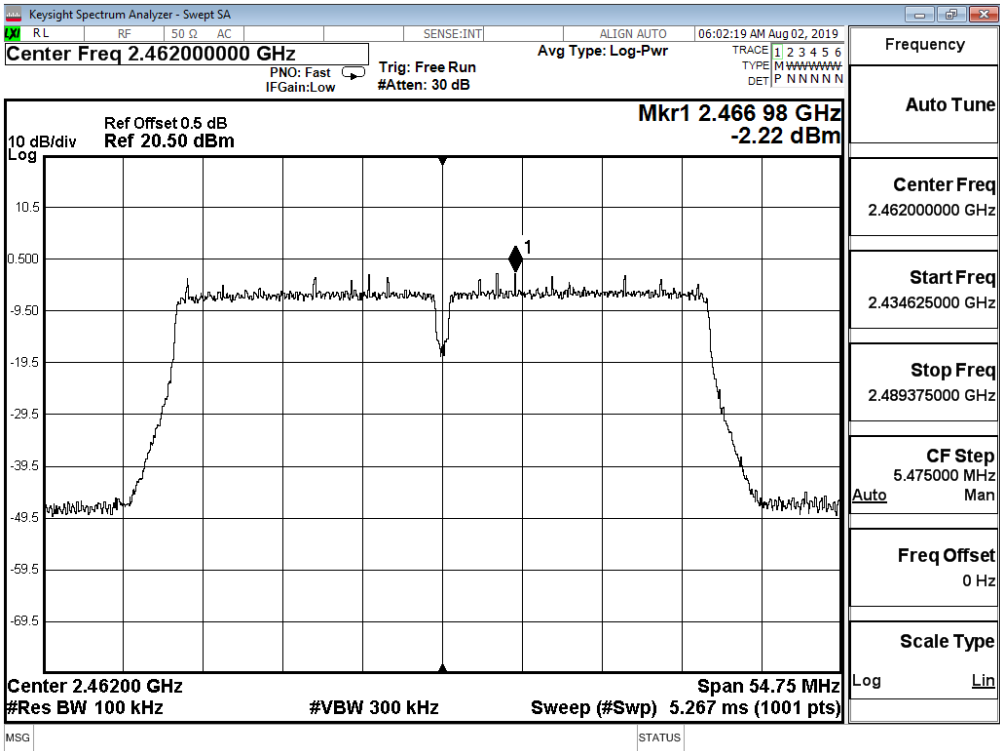


Figure Channel 11:



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 3: 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 °C

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	-0.770	3.010	2.240	≤ 8dBm	Pass
		B	-5.070	3.010	-2.060	≤ 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)

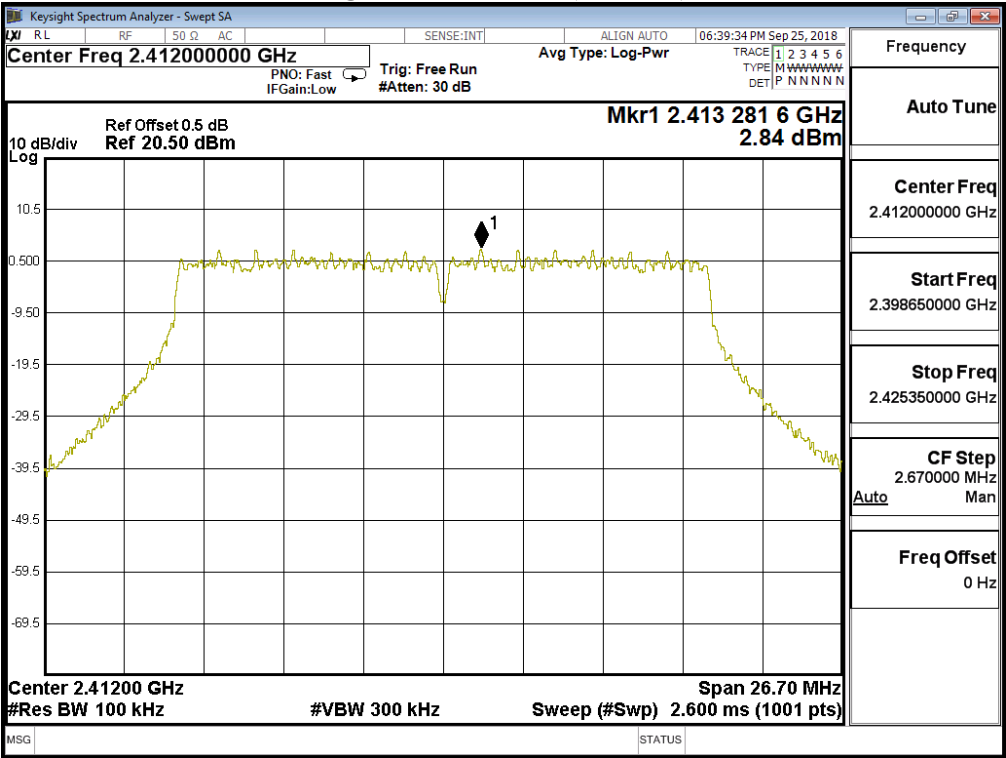


Figure Channel 01: (Chain B)

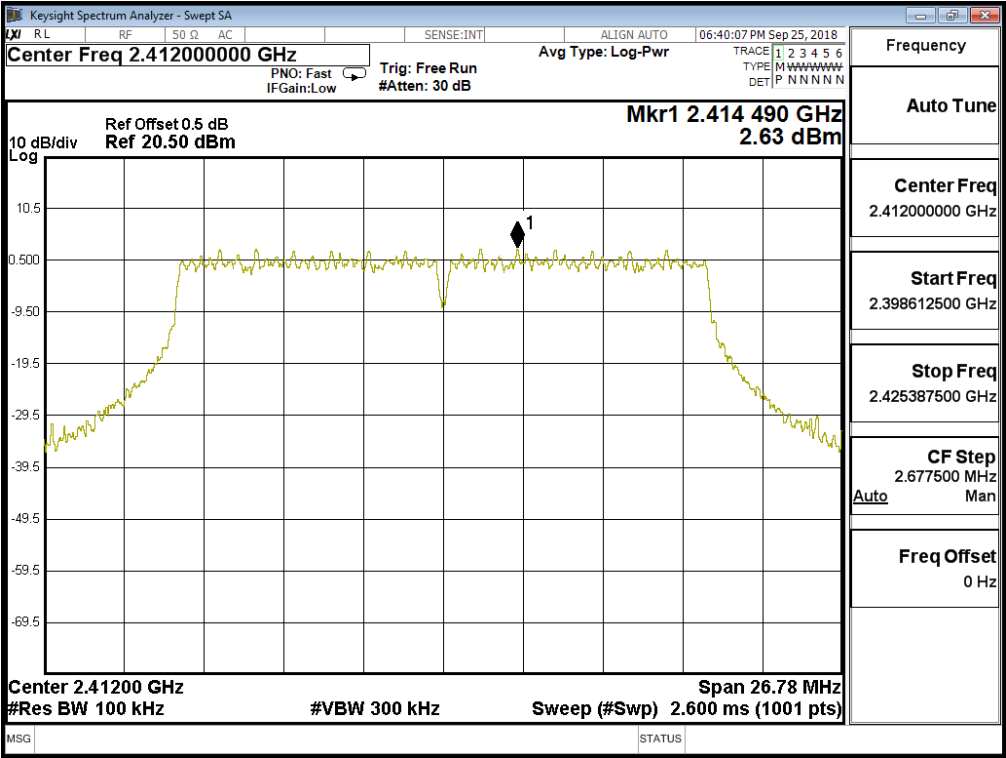


Figure Channel 07: (Chain A)

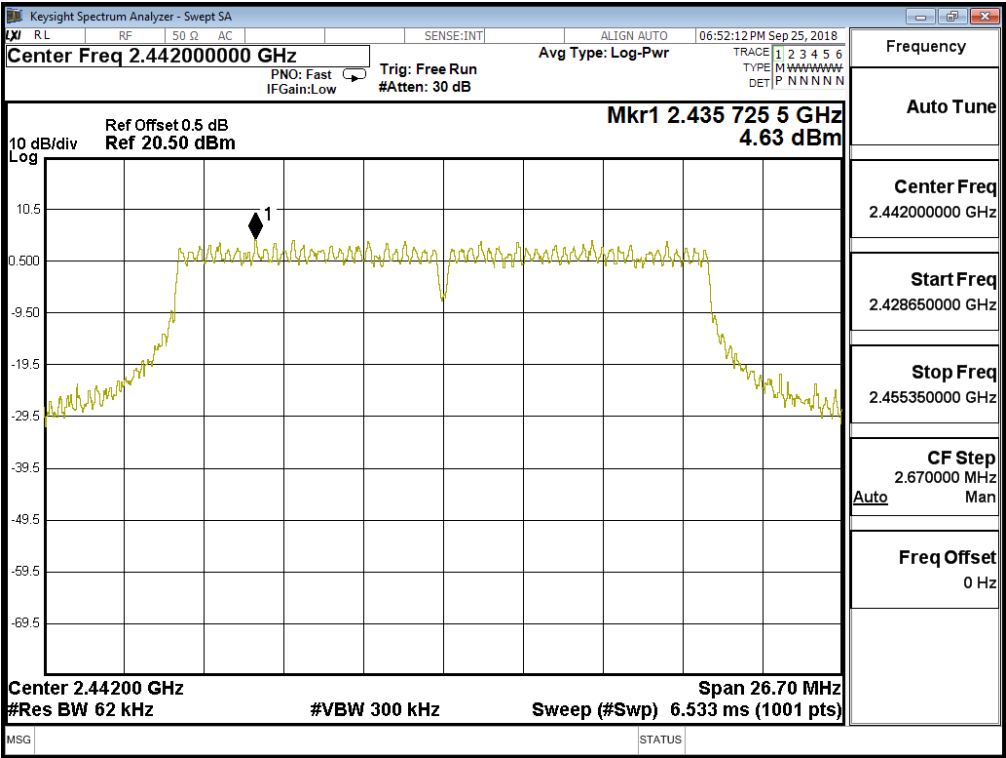


Figure Channel 07: (Chain B)

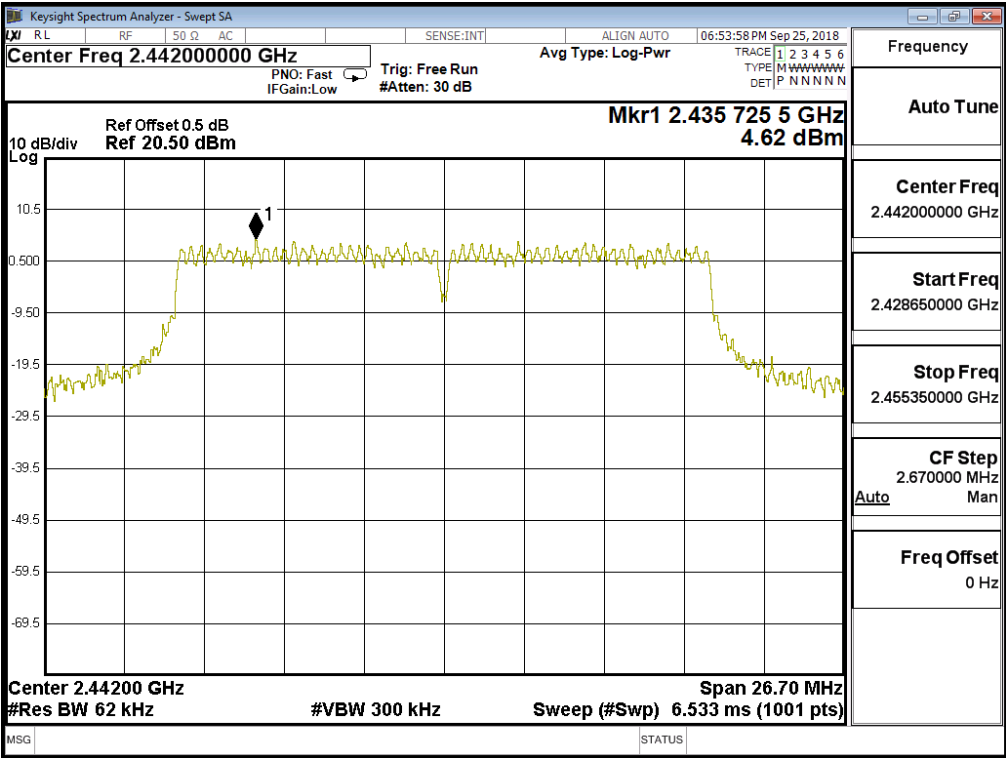


Figure Channel 11: (Chain A)

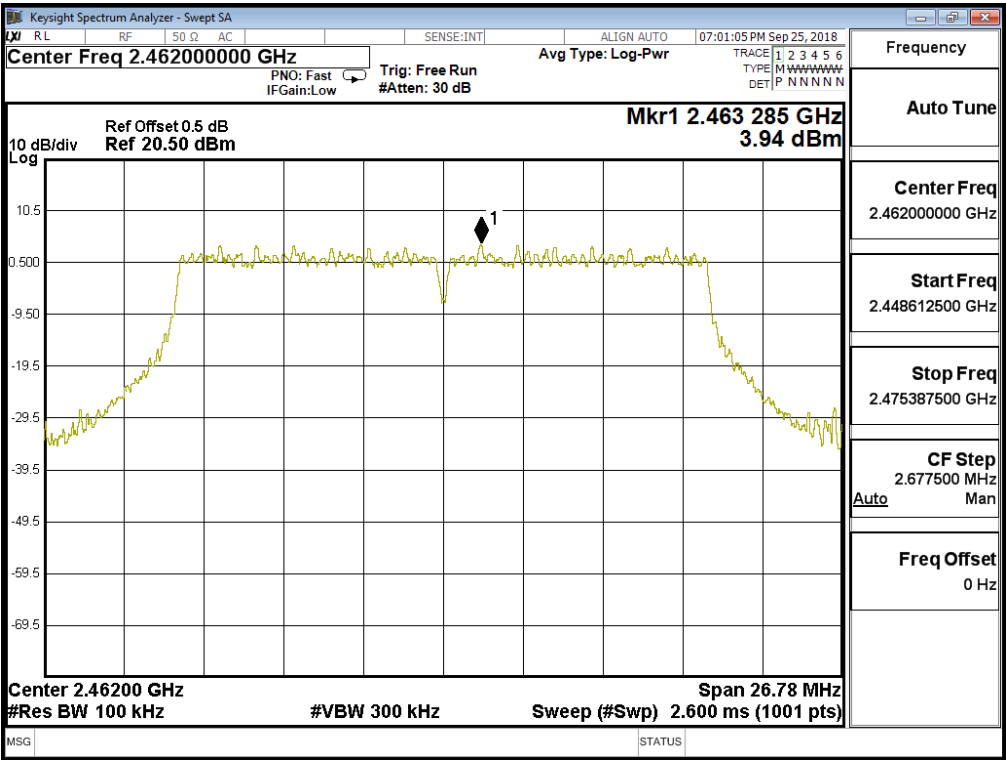


Figure Channel 11: (Chain B)

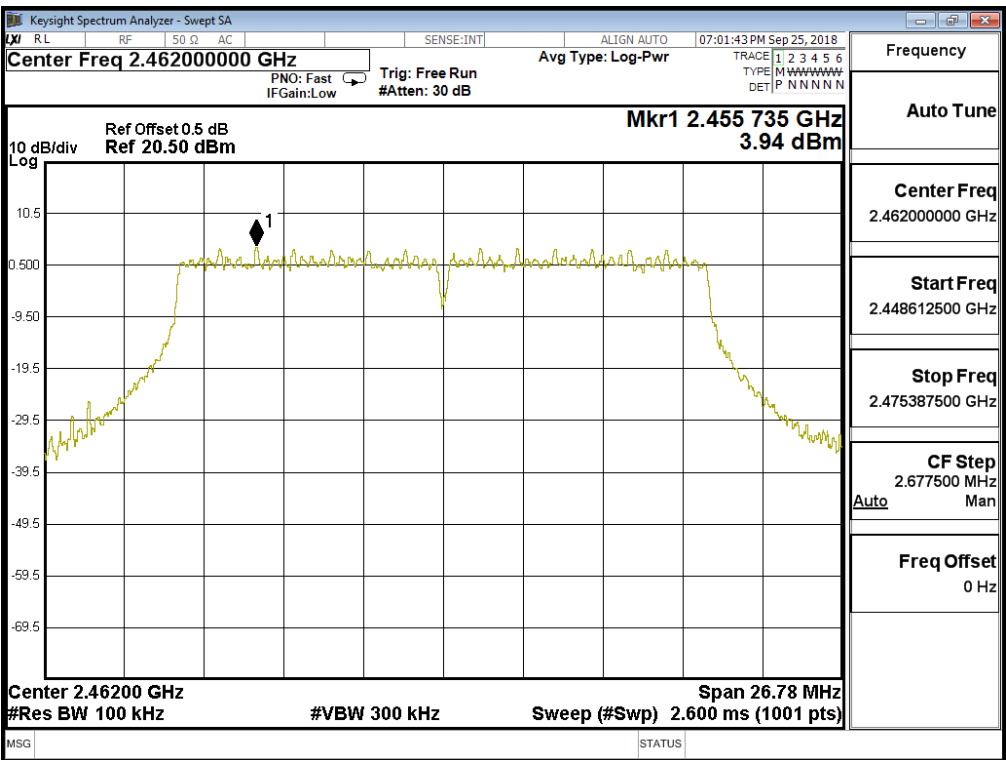


Figure Channel 12: (Chain A)

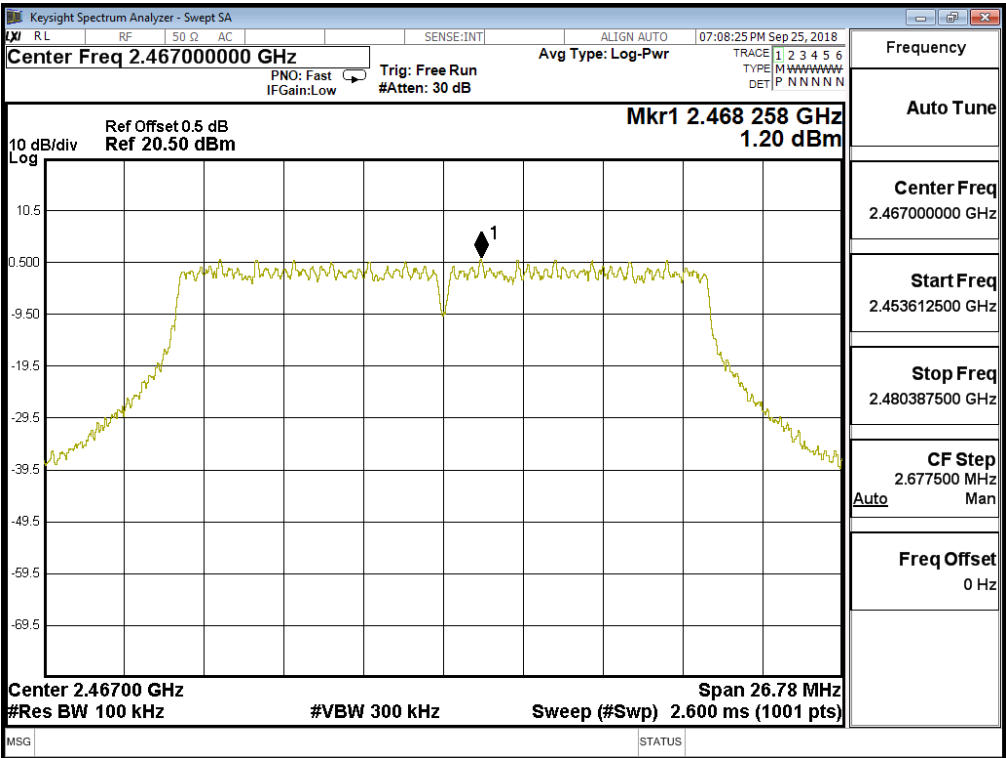


Figure Channel 12: (Chain B)

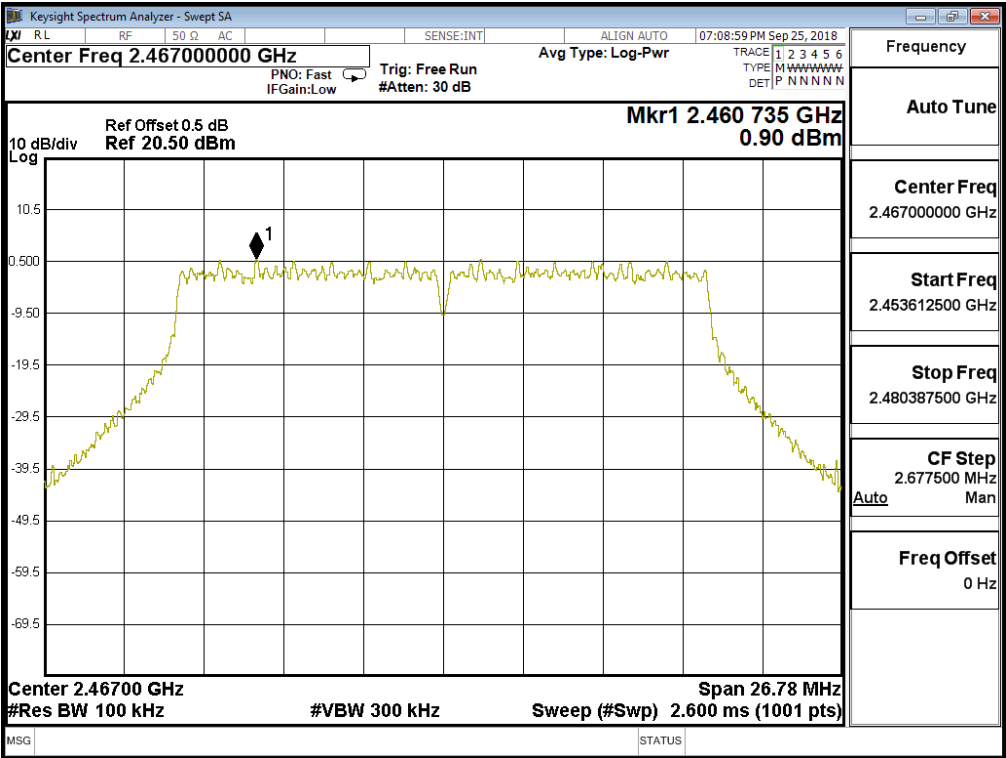


Figure Channel 13: (Chain A)

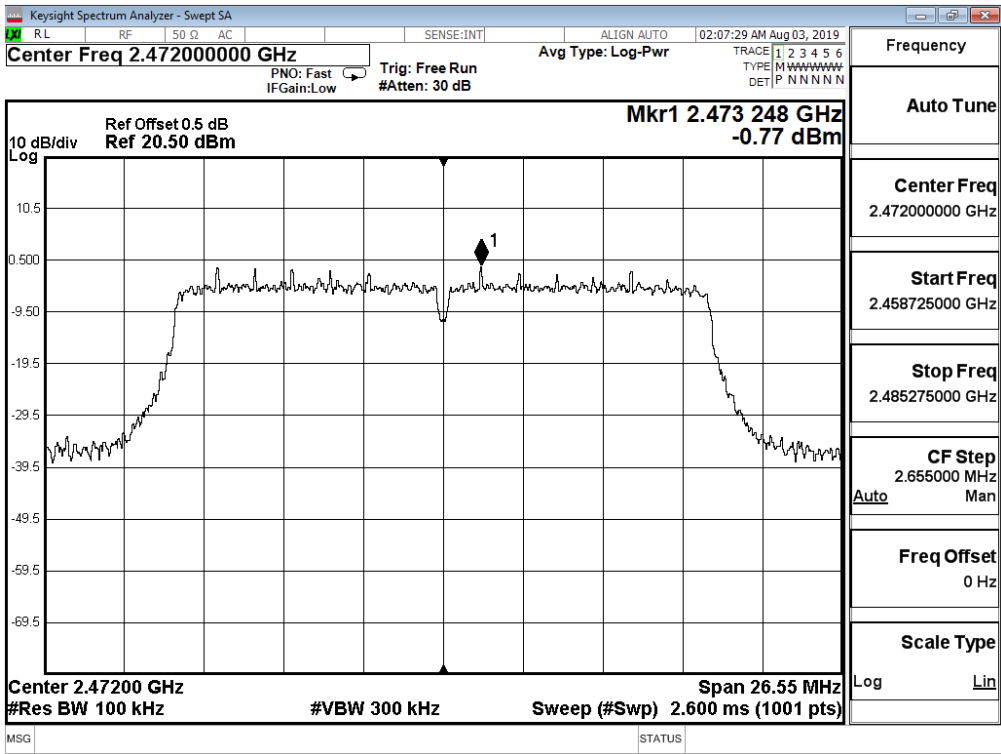
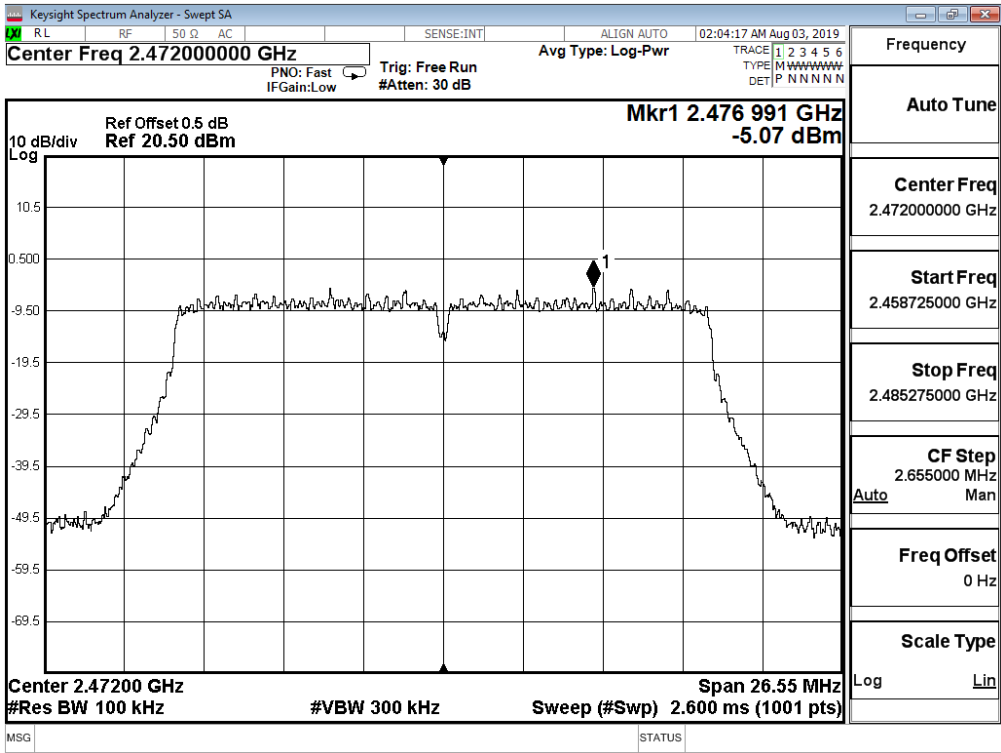


Figure Channel 13: (Chain B)



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 3: 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 °C

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	-3.570	3.010	-0.560	≤ 8dBm	Pass
		B	-3.200	3.010	-0.190	≤ 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)

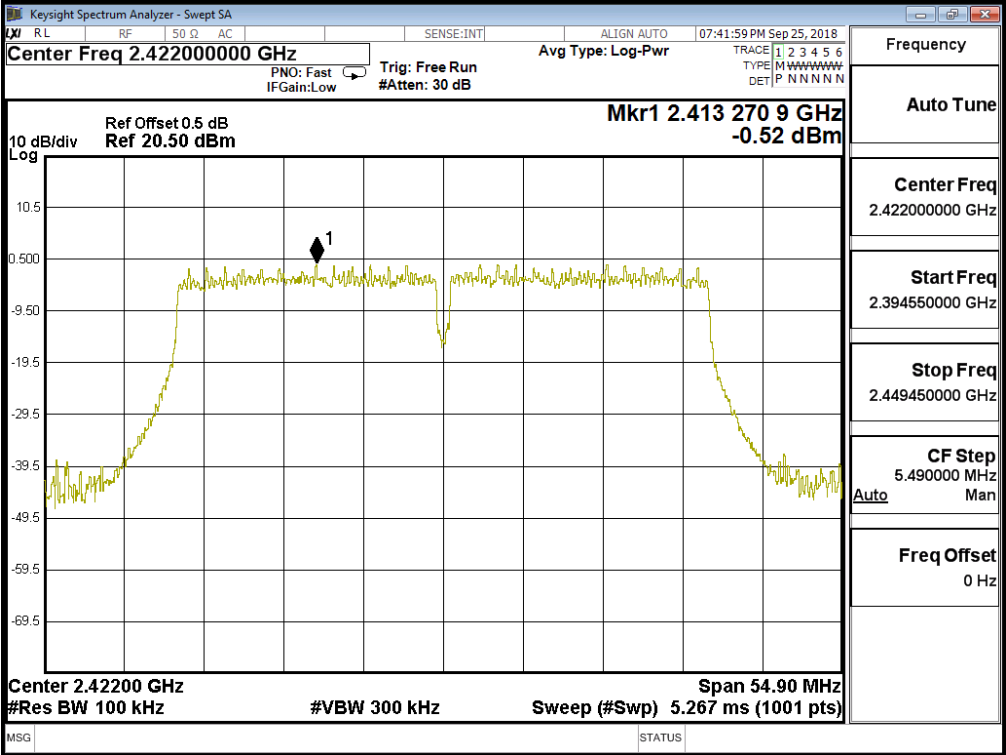


Figure Channel 03: (Chain B)

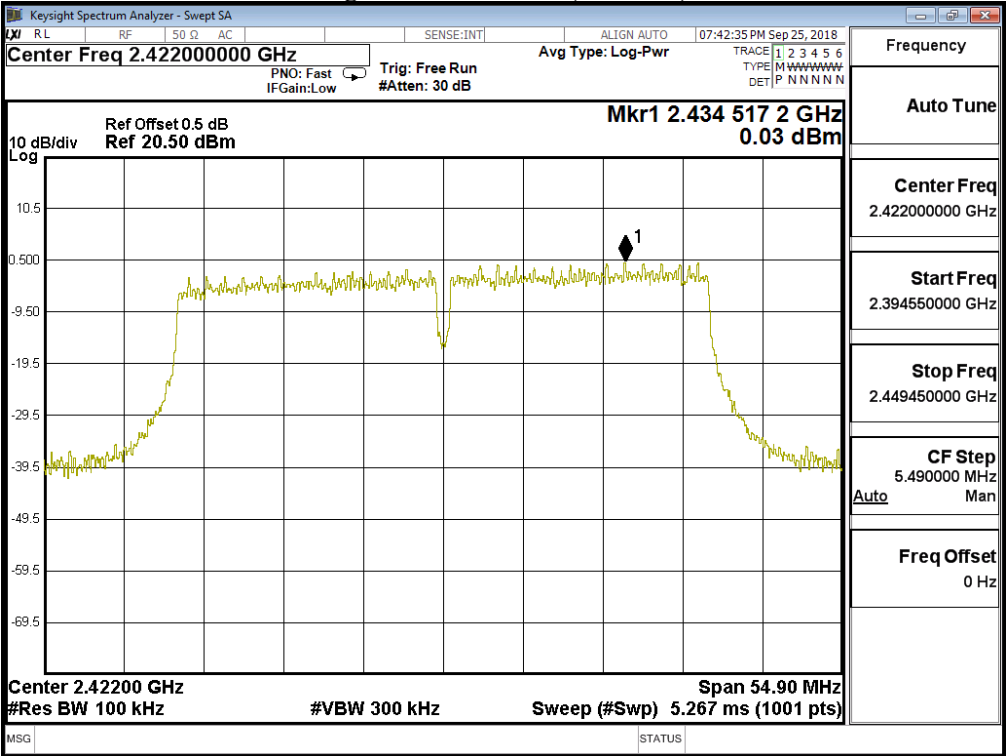


Figure Channel 07: (Chain A)

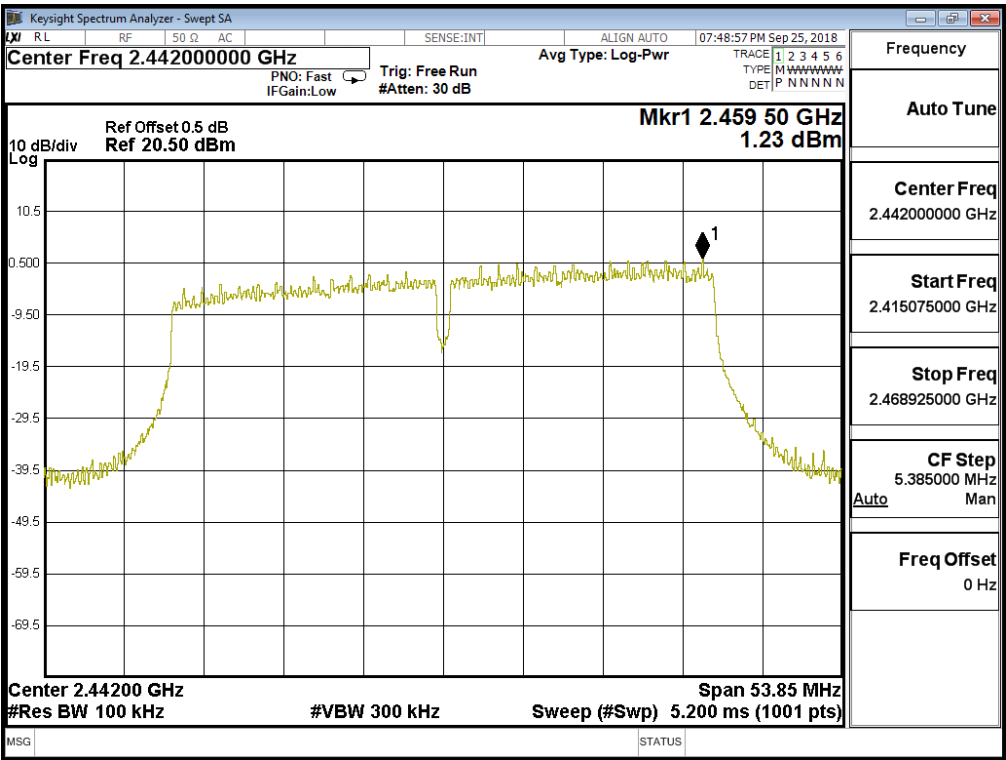


Figure Channel 07: (Chain B)

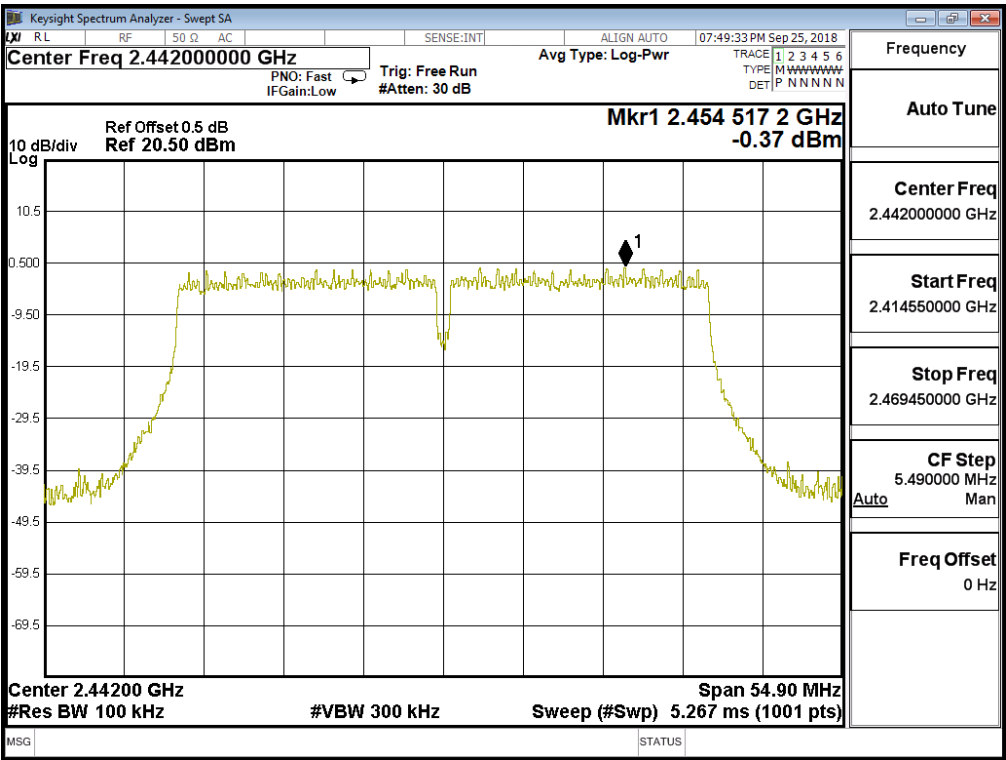


Figure Channel 09: (Chain A)

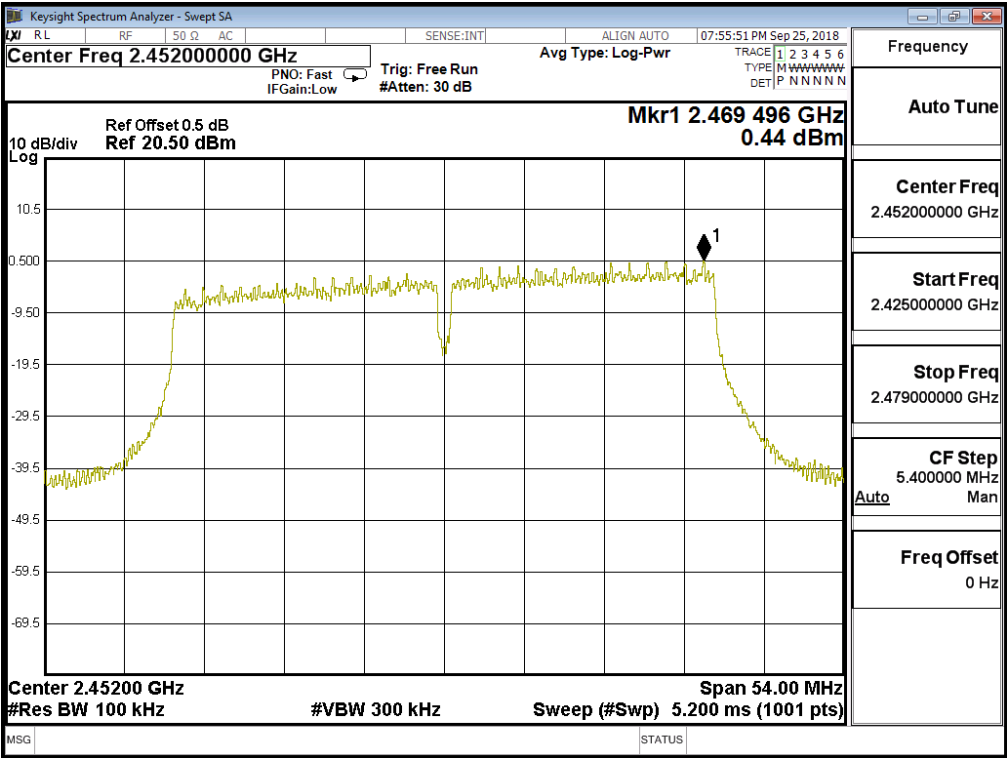


Figure Channel 09: (Chain B)

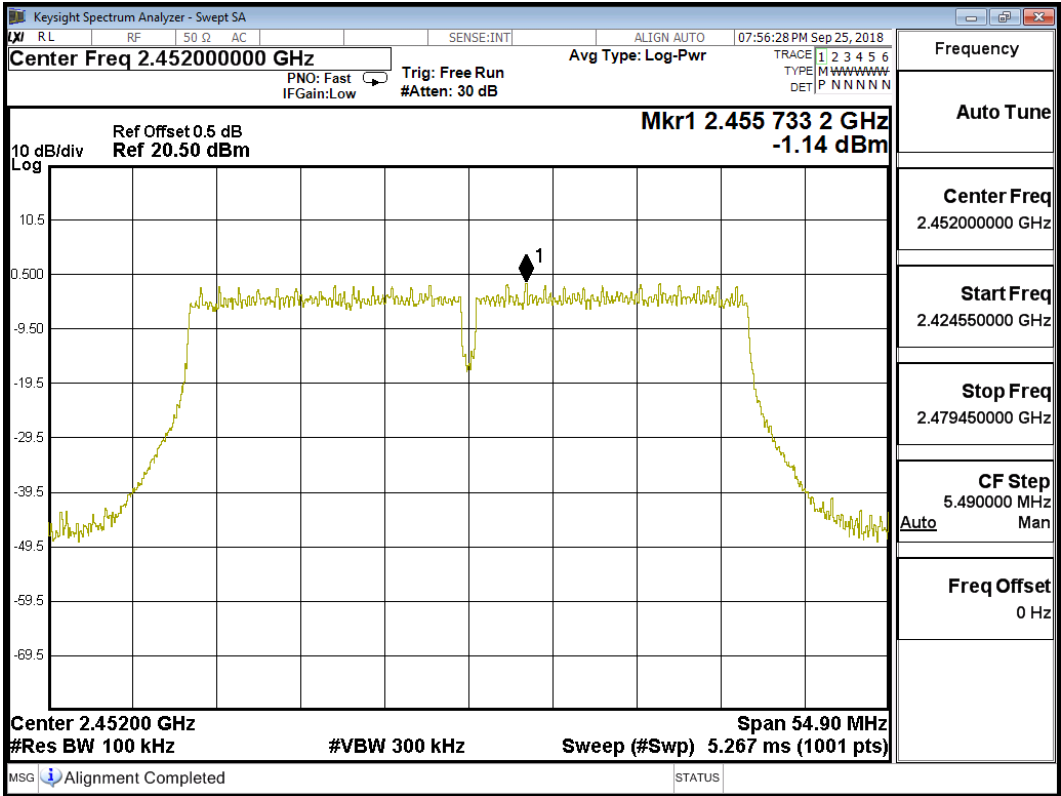


Figure Channel 10: (Chain A)

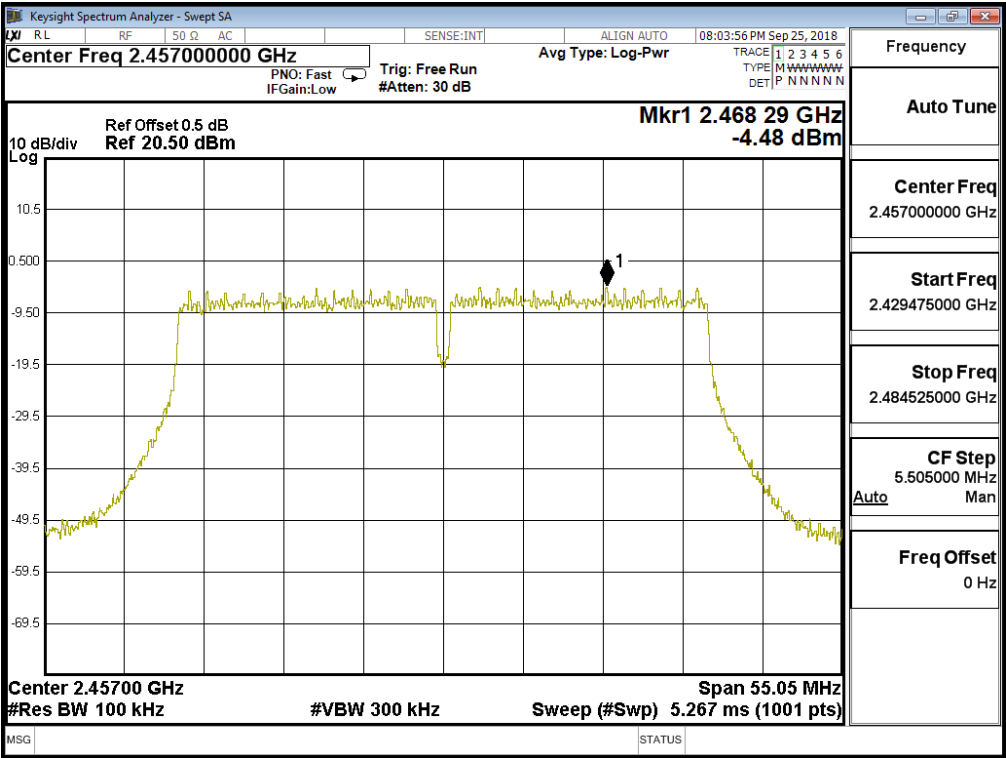


Figure Channel 10: (Chain B)

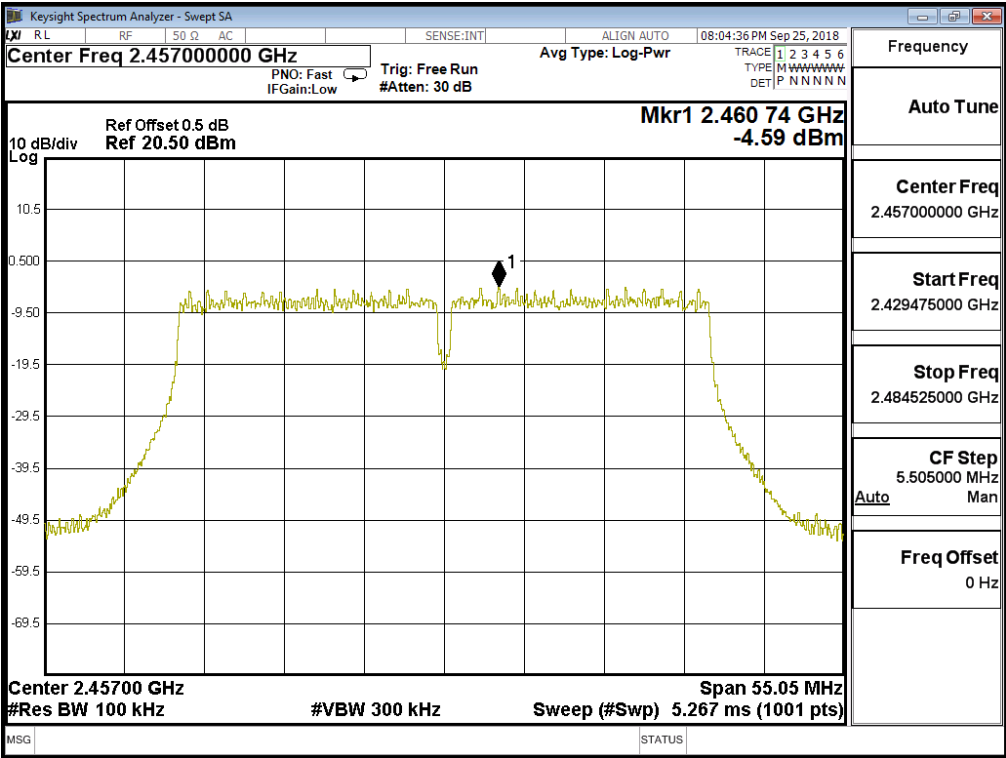


Figure Channel 11: (Chain A)

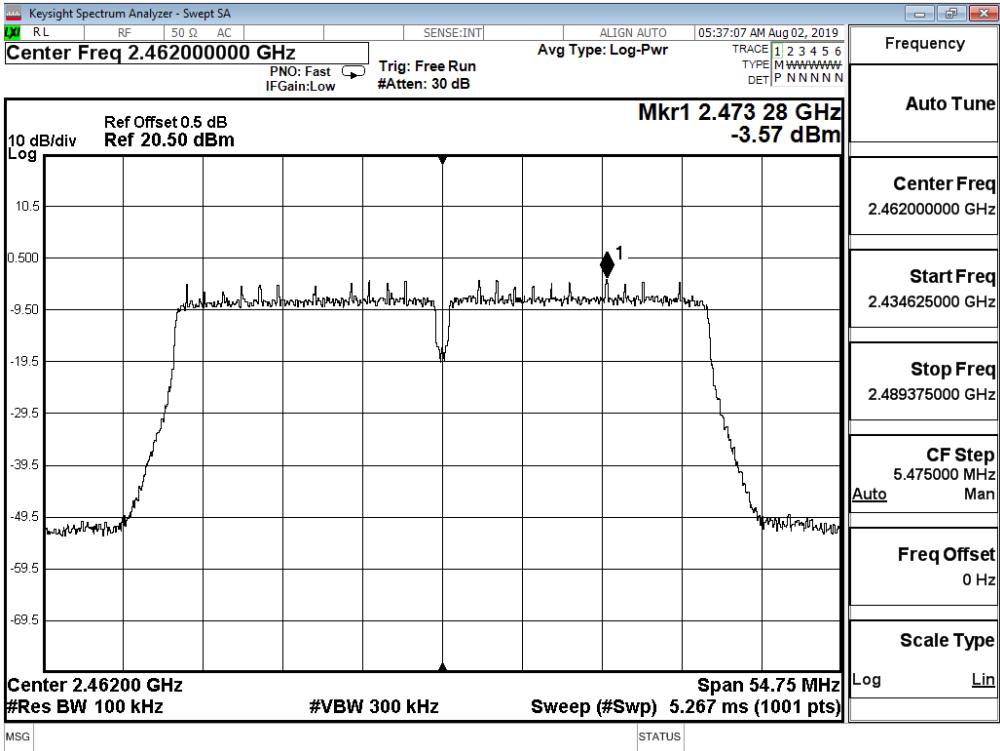
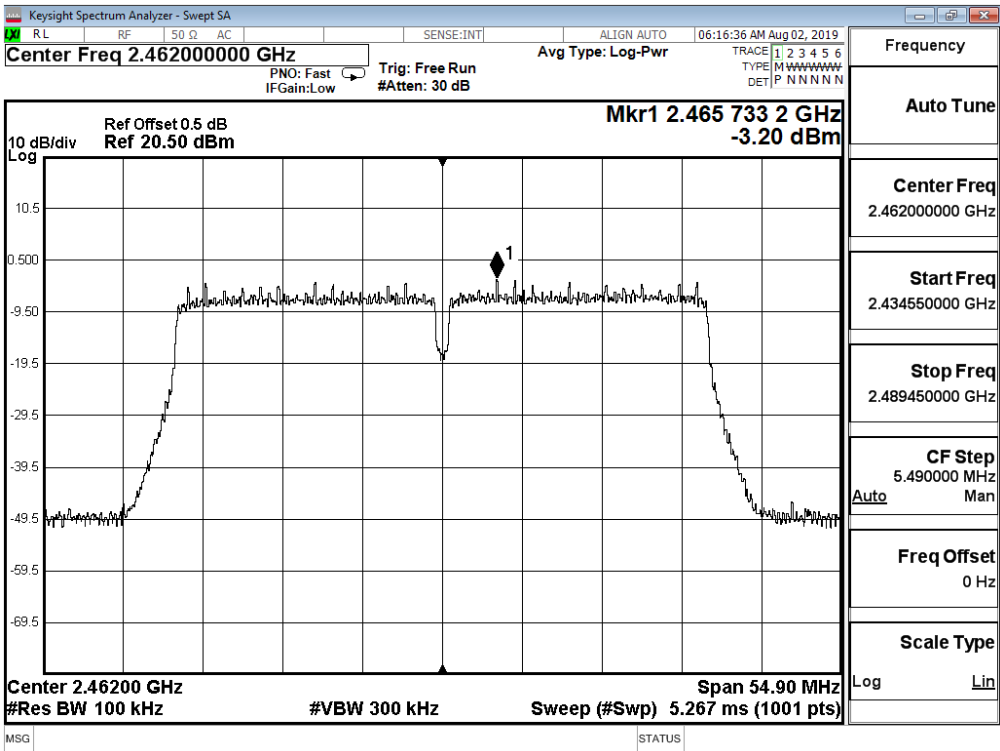


Figure Channel 11: (Chain B)



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 802.11ax (20MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.55	$\leq 8\text{dBm}$	Pass
07	2442	7.86	$\leq 8\text{dBm}$	Pass
11	2462	6.91	$\leq 8\text{dBm}$	Pass
12	2467	3.68	$\leq 8\text{dBm}$	Pass
13	2472	-0.57	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

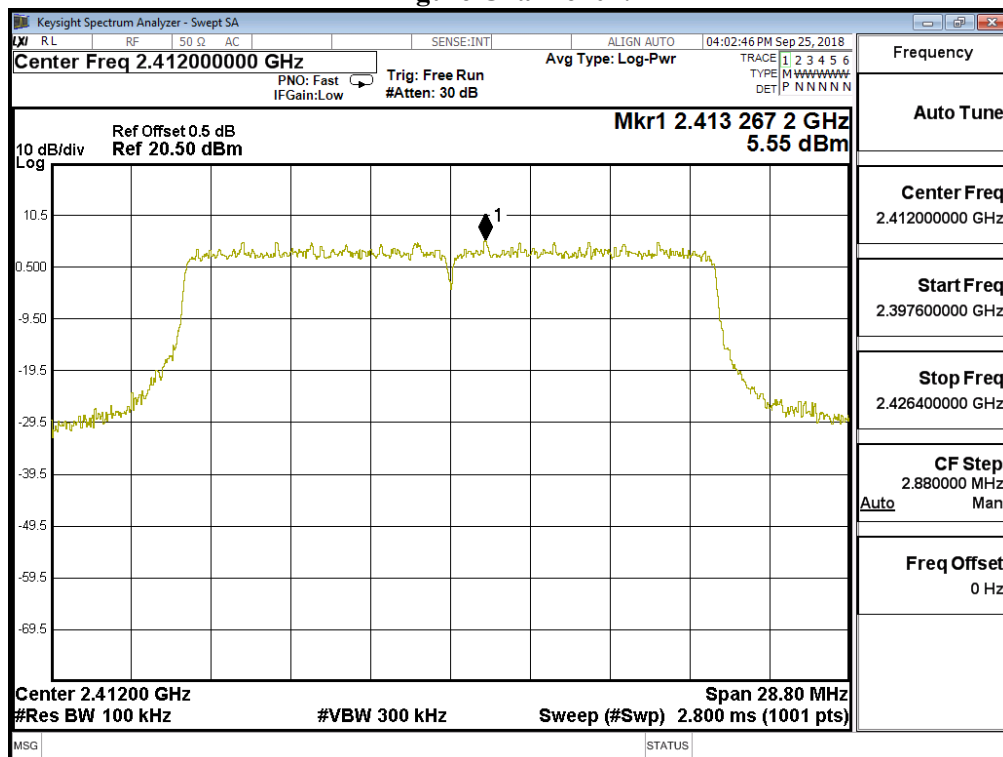


Figure Channel 07:

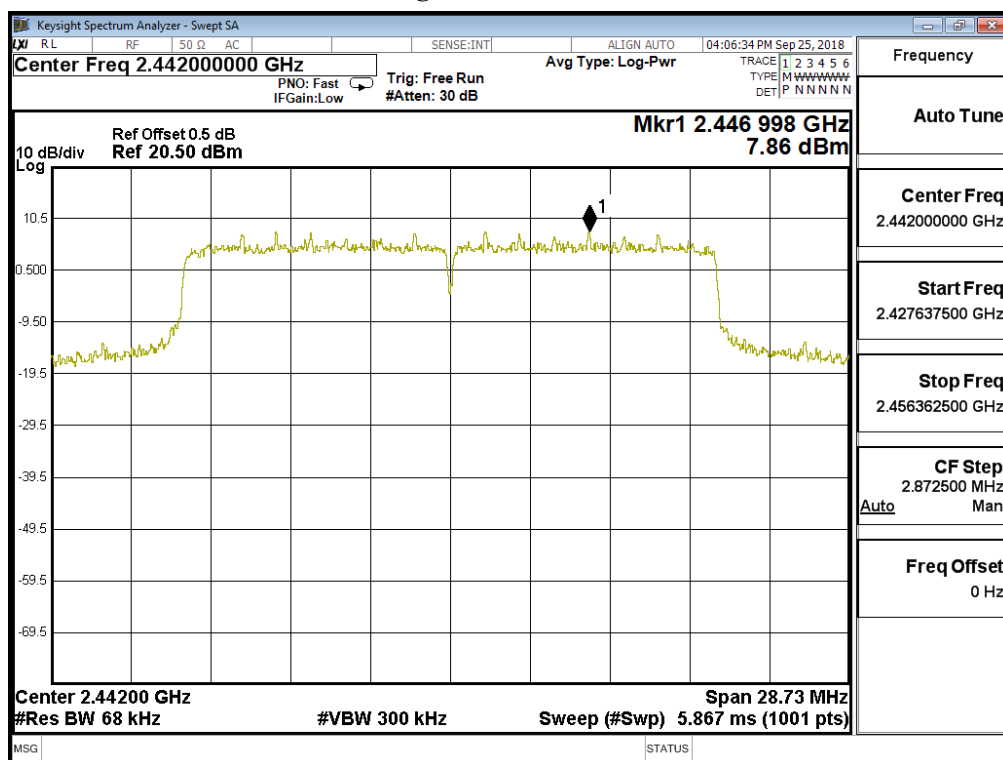


Figure Channel 11:

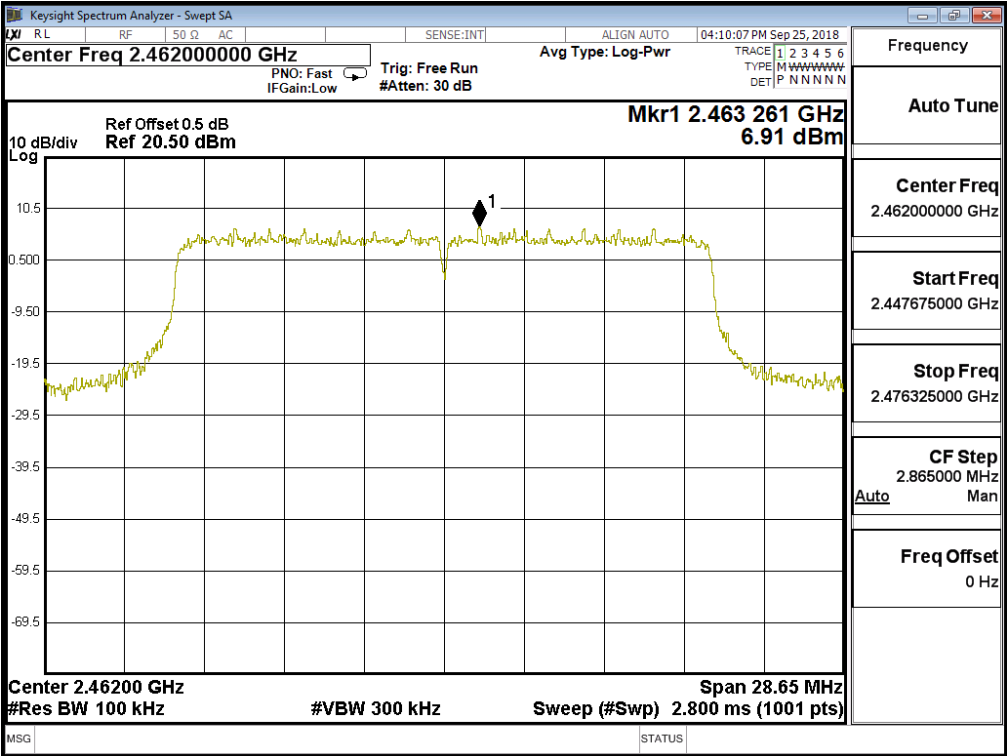


Figure Channel 12:

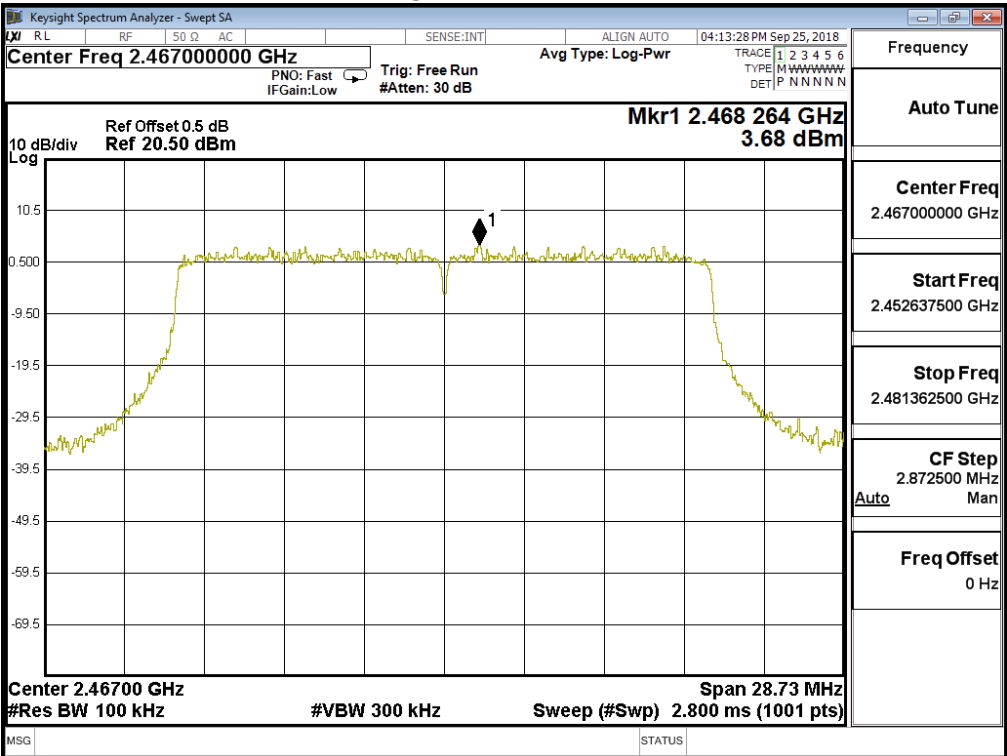
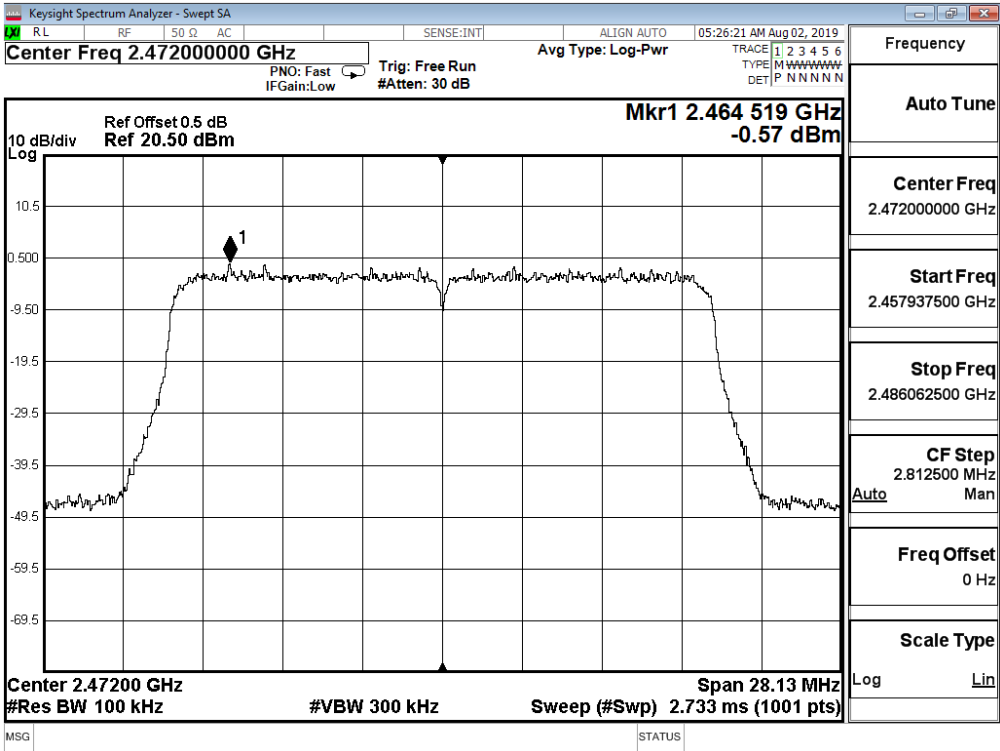


Figure Channel 13:



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 802.11ax (40MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.04	$\leq 8\text{dBm}$	Pass
07	2442	3.17	$\leq 8\text{dBm}$	Pass
09	2452	1.76	$\leq 8\text{dBm}$	Pass
10	2457	-1.77	$\leq 8\text{dBm}$	Pass
11	2462	-3.32	$\leq 8\text{dBm}$	Pass

Figure Channel 03:

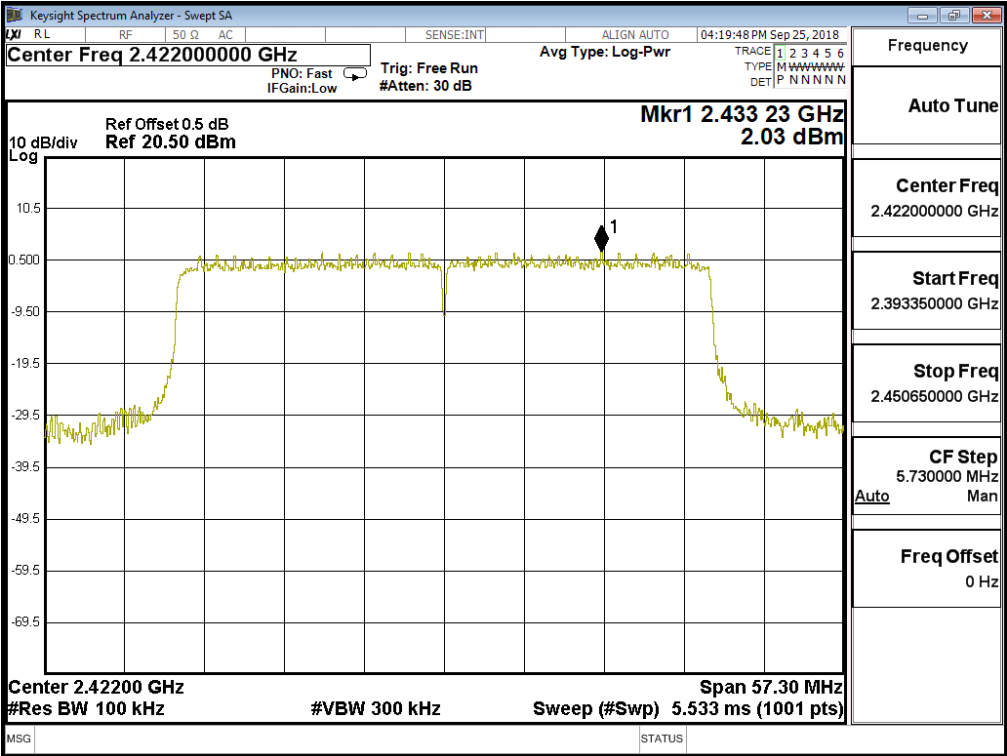


Figure Channel 07:

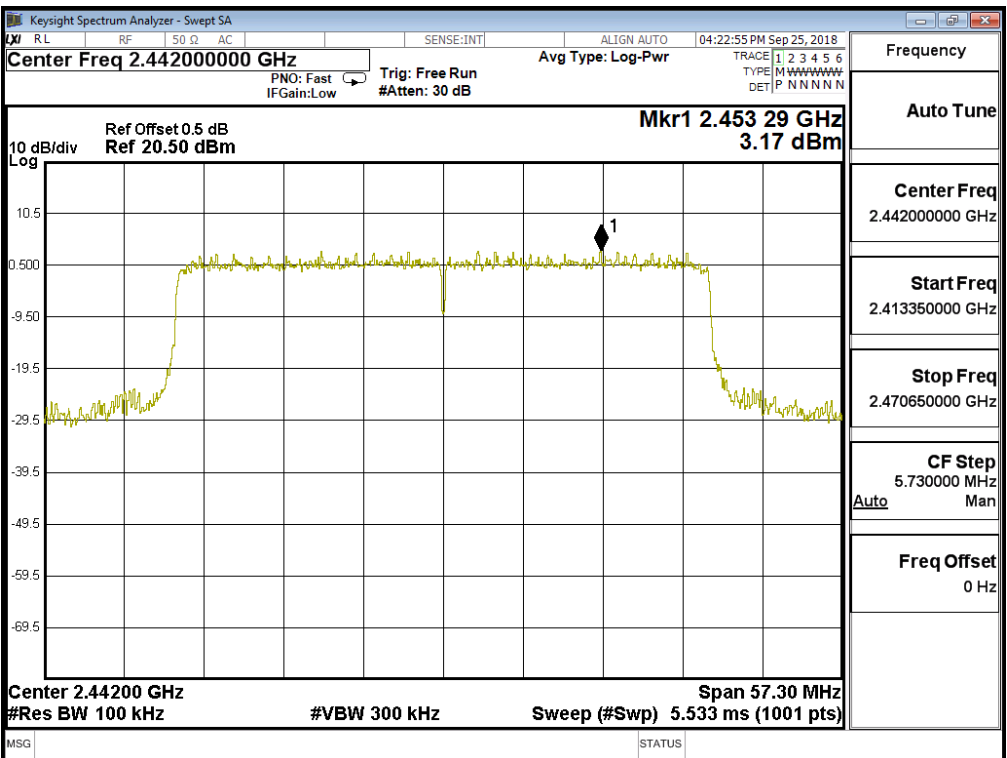


Figure Channel 09:

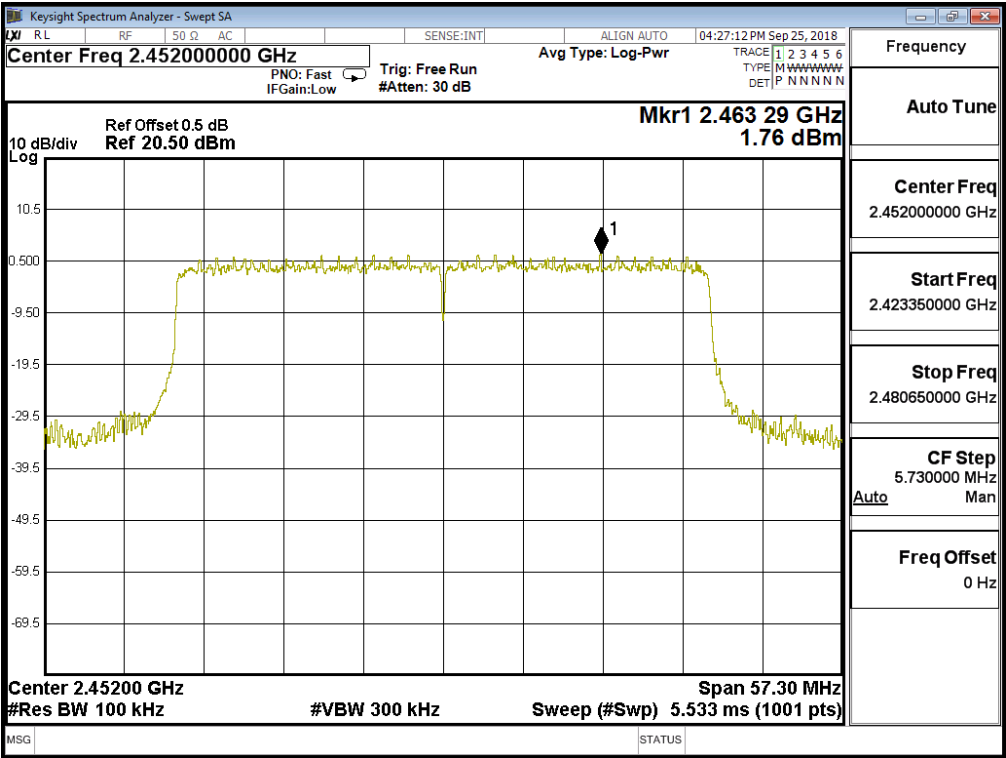


Figure Channel 10:

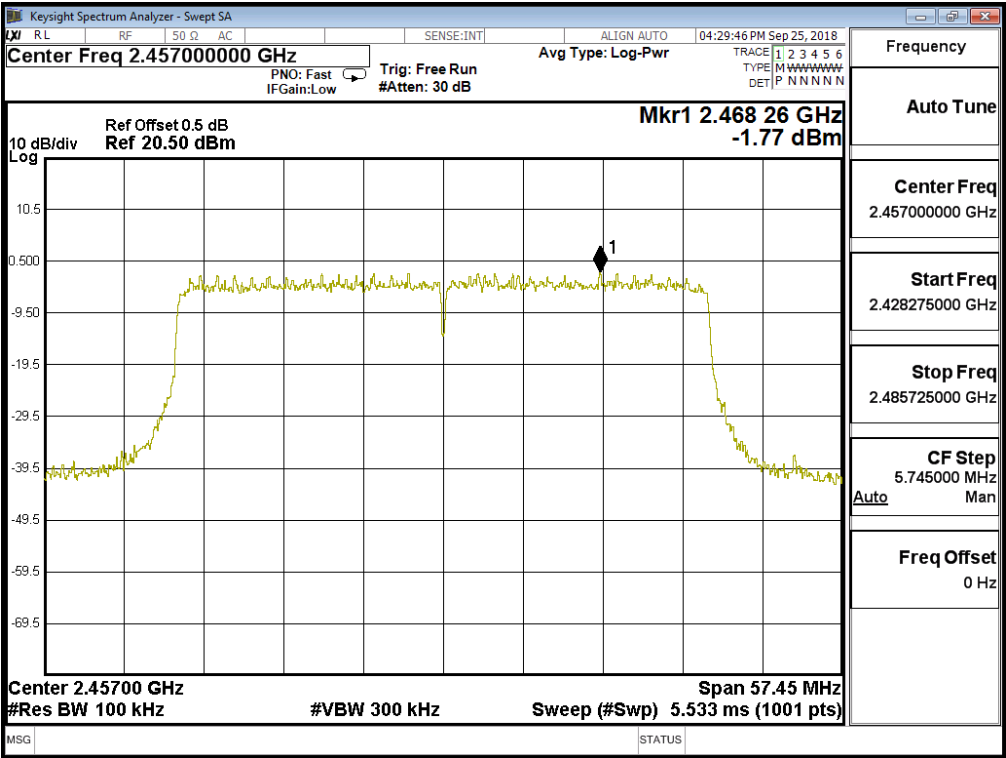
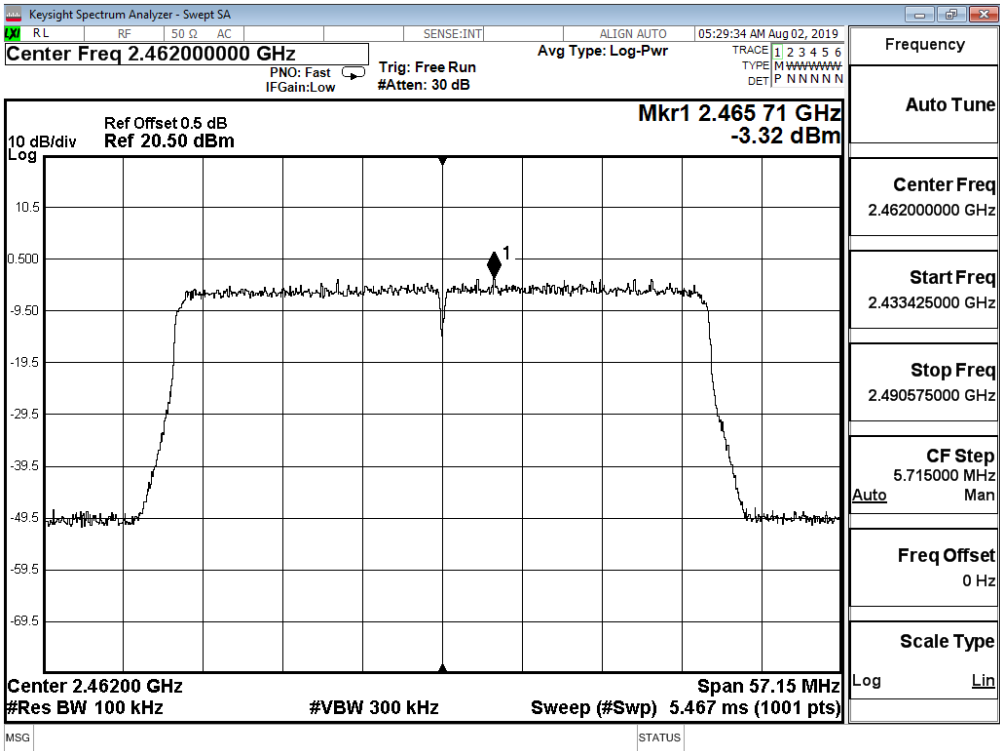


Figure Channel 11:



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 2: SISO B: 發射器 802.11ax (20MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	5.61	$\leq 8\text{dBm}$	Pass
07	2442	7.68	$\leq 8\text{dBm}$	Pass
11	2462	6.83	$\leq 8\text{dBm}$	Pass
12	2467	3.64	$\leq 8\text{dBm}$	Pass
13	2472	-1.82	$\leq 8\text{dBm}$	Pass

Figure Channel 01:

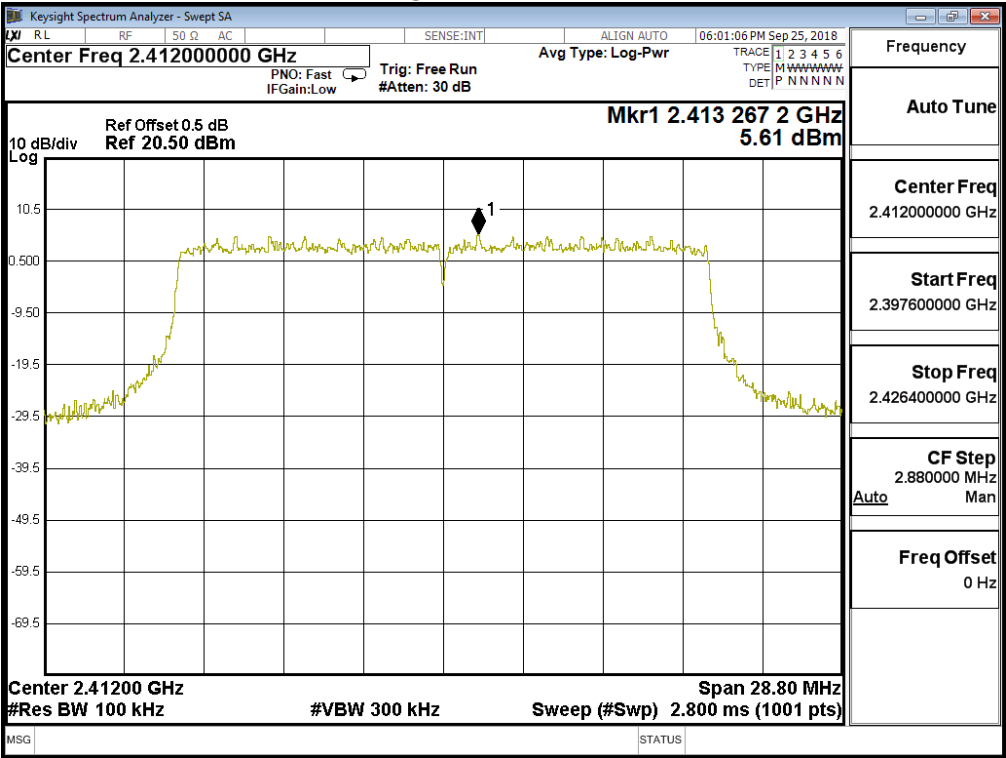


Figure Channel 07:

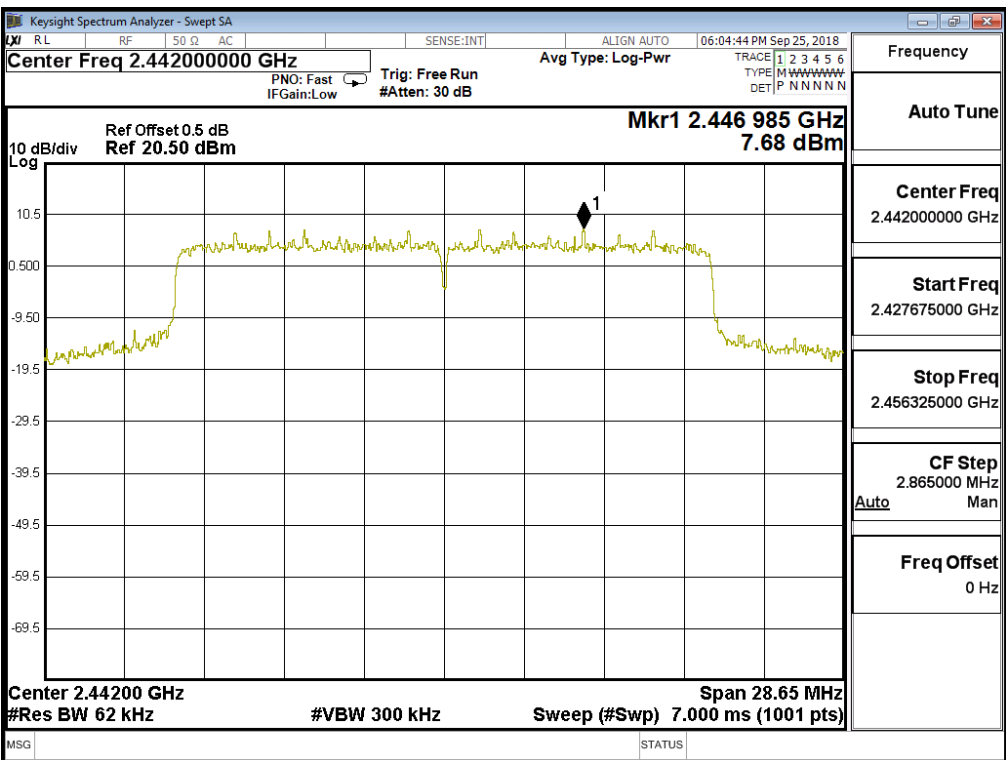


Figure Channel 11:

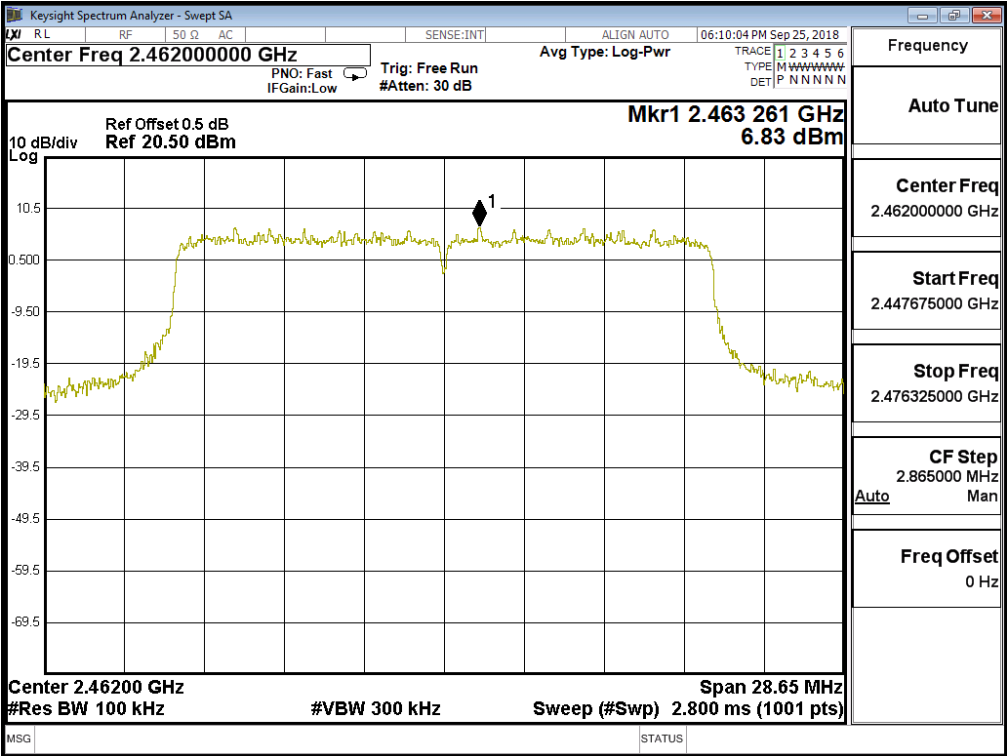


Figure Channel 12:

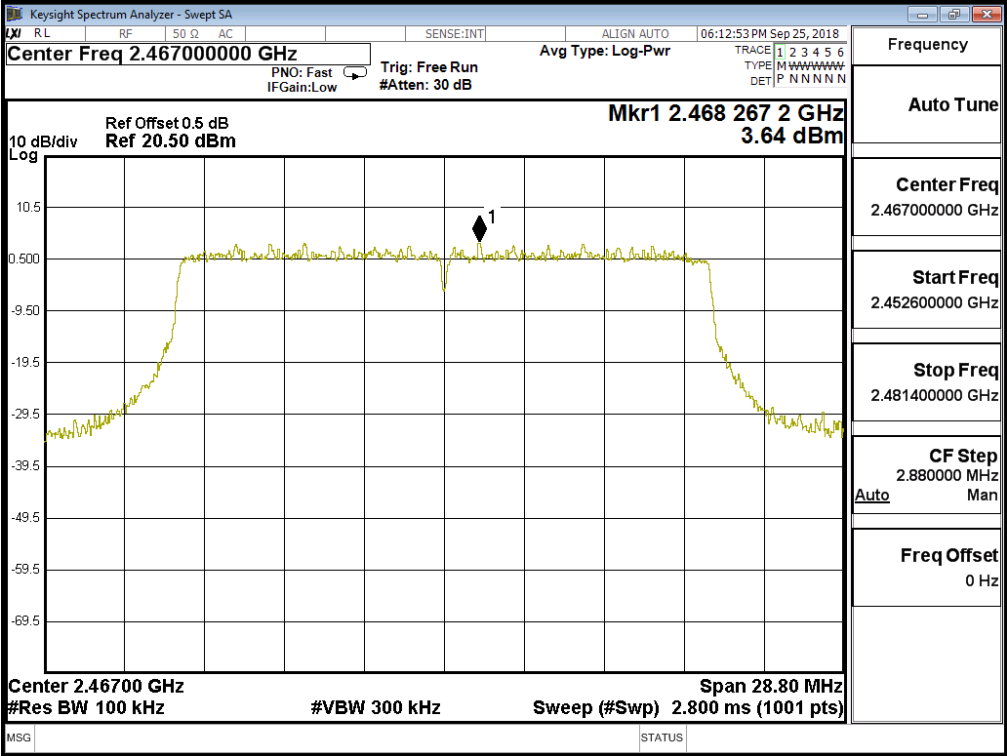
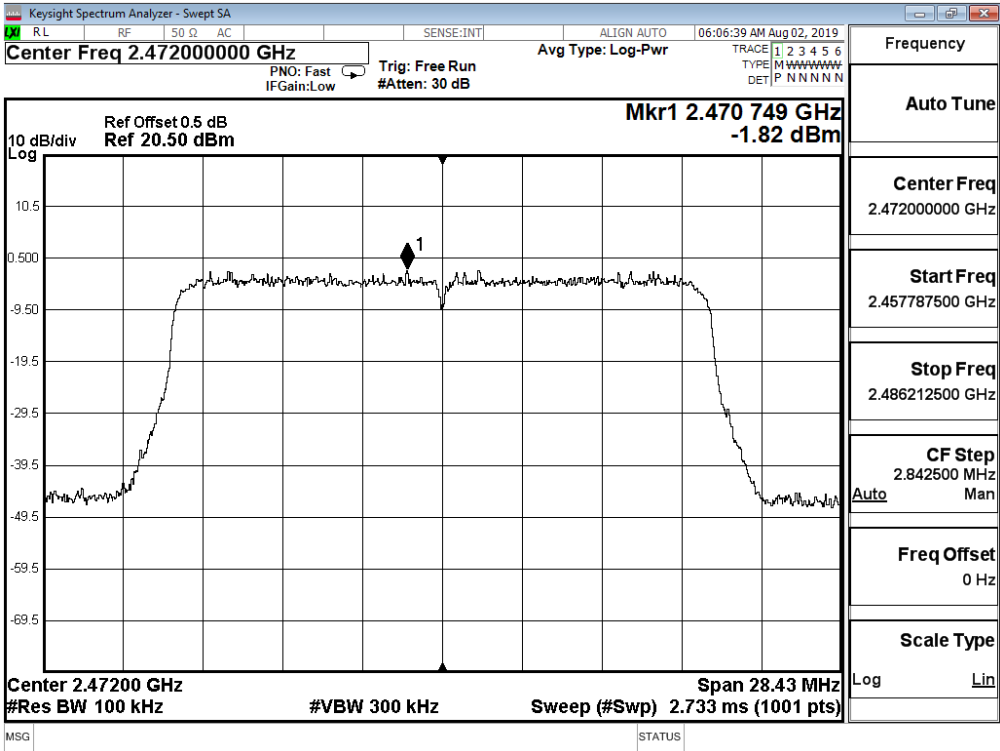


Figure Channel 13:



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 2: SISO B: 發射器 802.11ax (40MHz)

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	2.01	$\leq 8\text{dBm}$	Pass
07	2442	3.28	$\leq 8\text{dBm}$	Pass
09	2452	1.54	$\leq 8\text{dBm}$	Pass
10	2457	-2.19	$\leq 8\text{dBm}$	Pass
11	2462	-3.73	$\leq 8\text{dBm}$	Pass

Figure Channel 03:

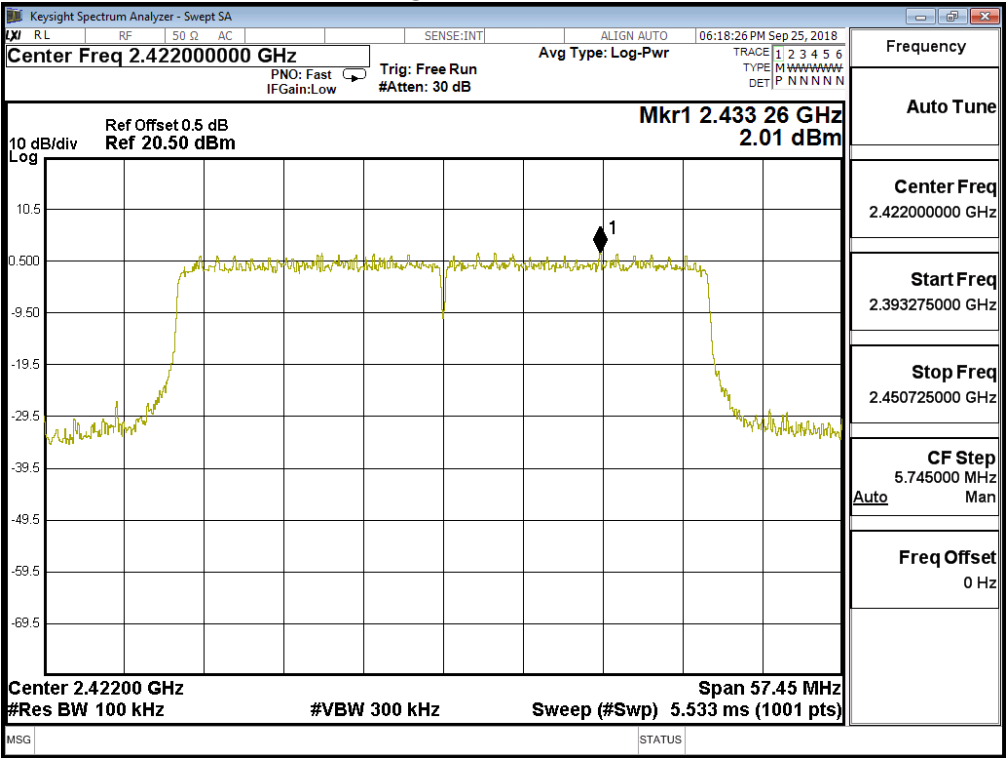


Figure Channel 07:

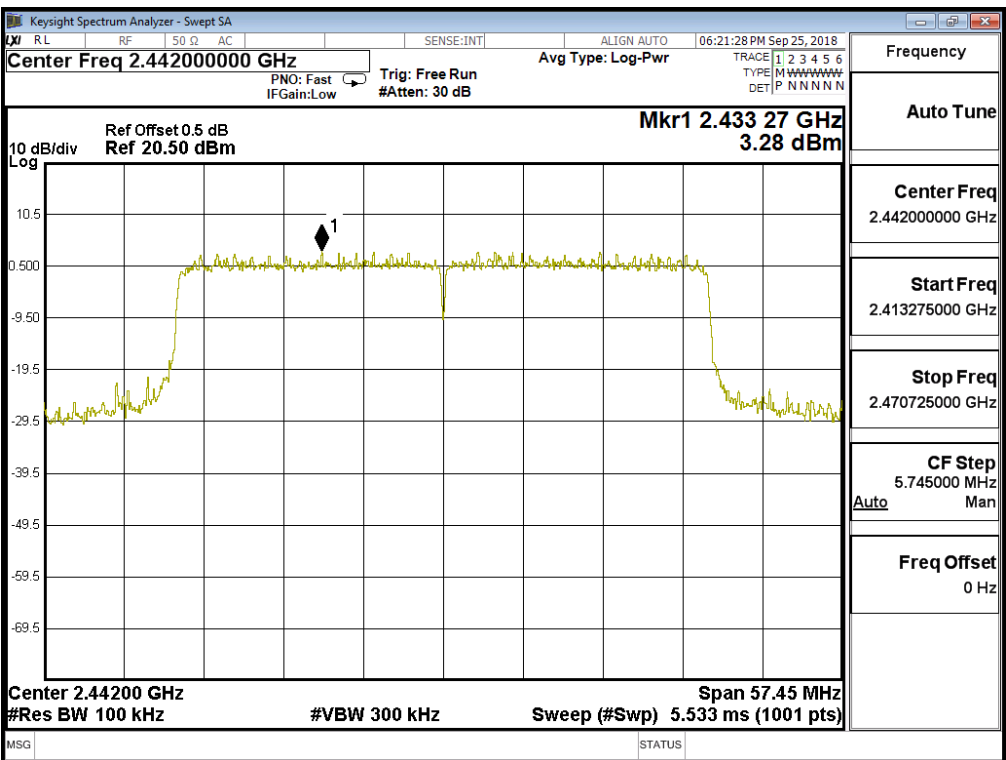


Figure Channel 09:

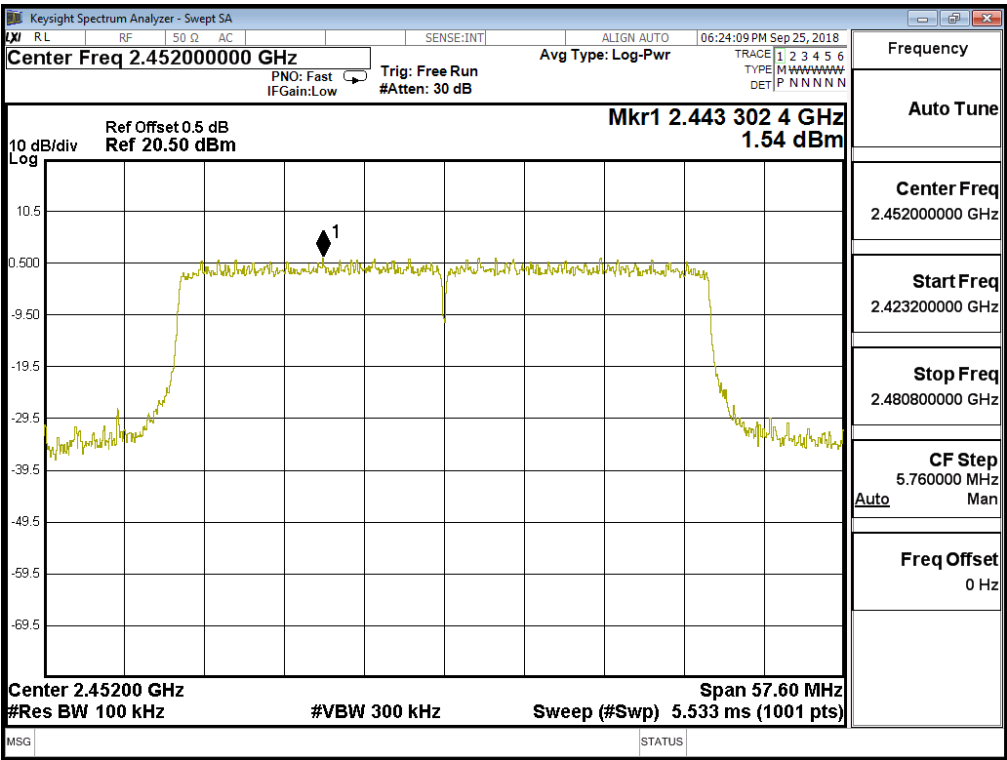


Figure Channel 10:

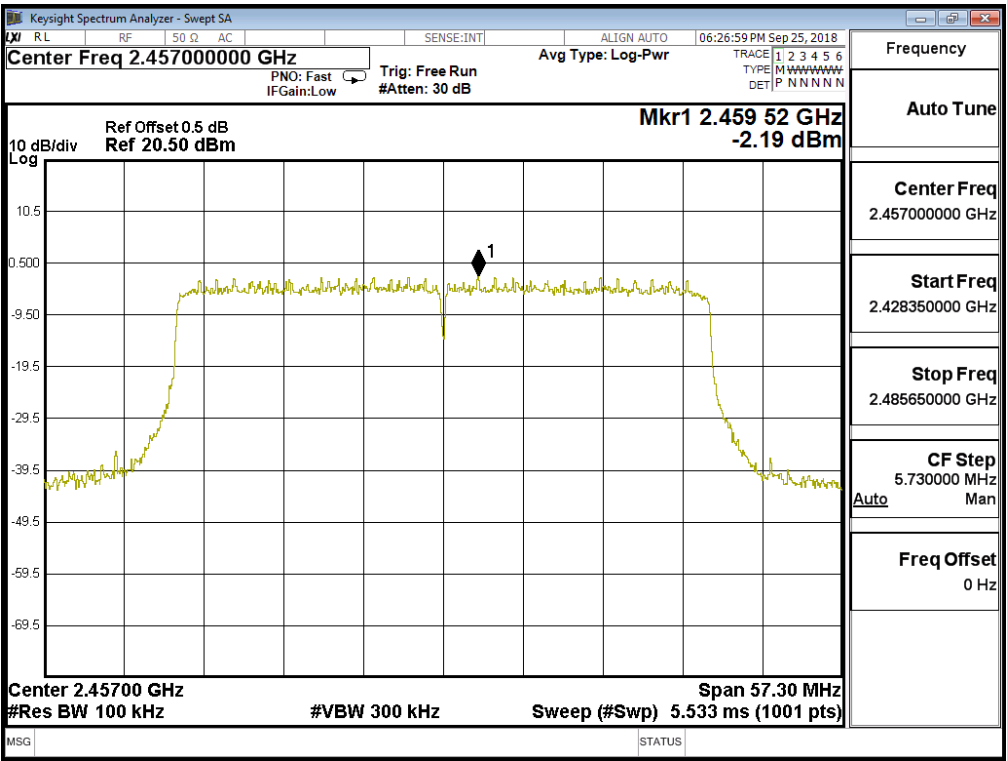
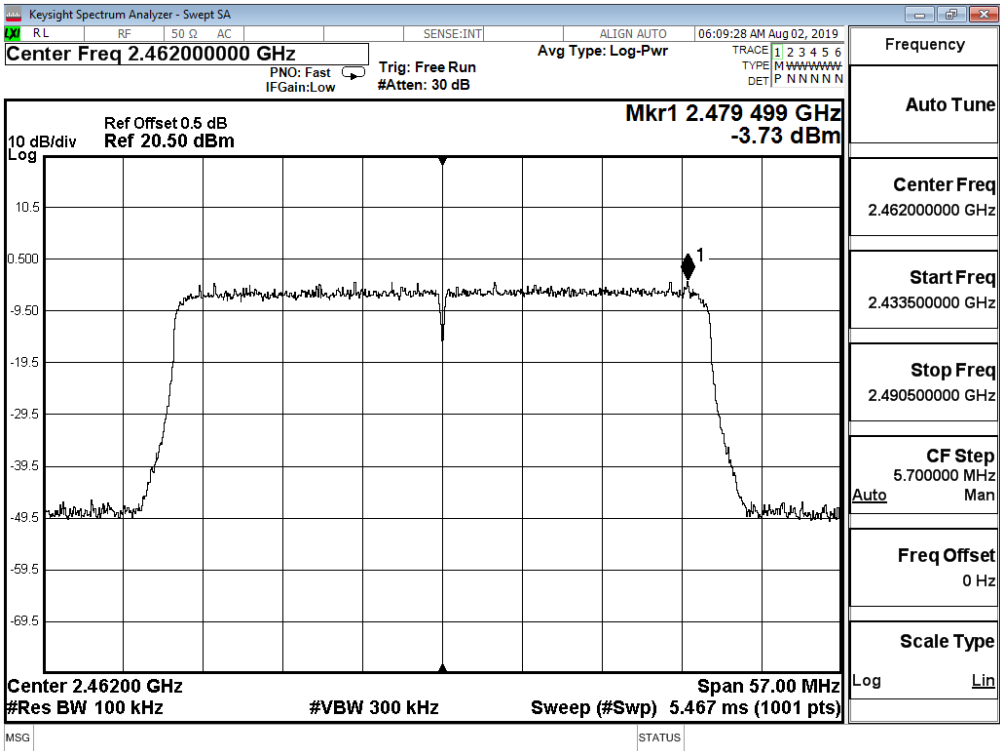


Figure Channel 11:



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 3: 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 °C

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	-2.380	3.010	0.630	≤ 8dBm	Pass
		B	-2.210	3.010	0.800	≤ 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)

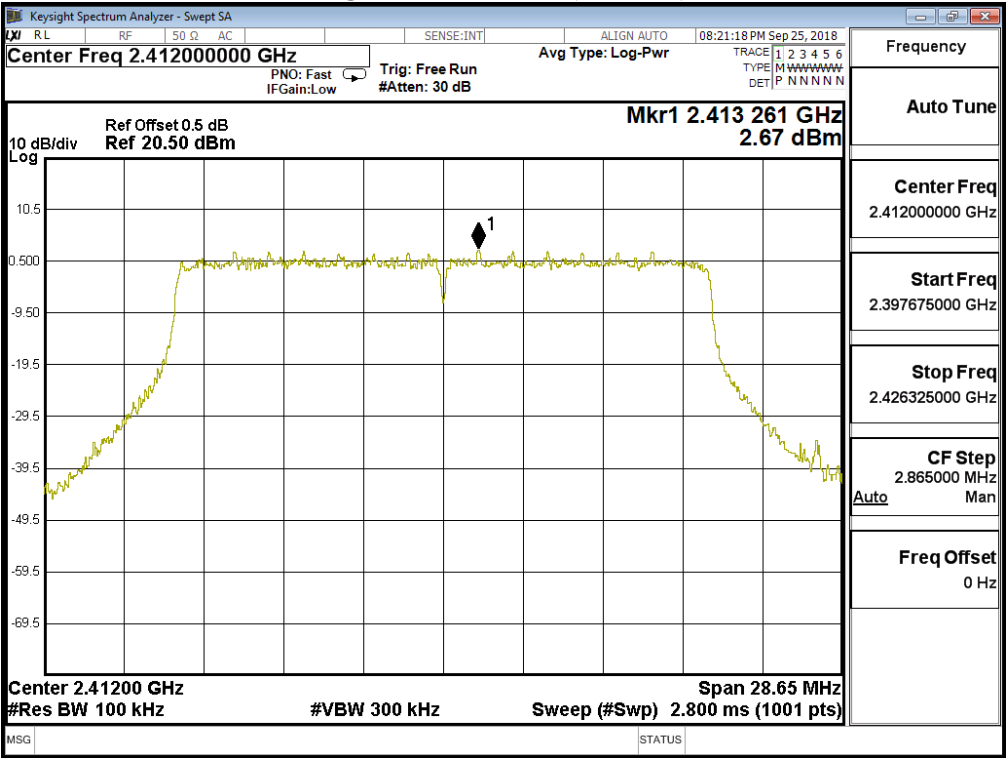


Figure Channel 01: (Chain B)

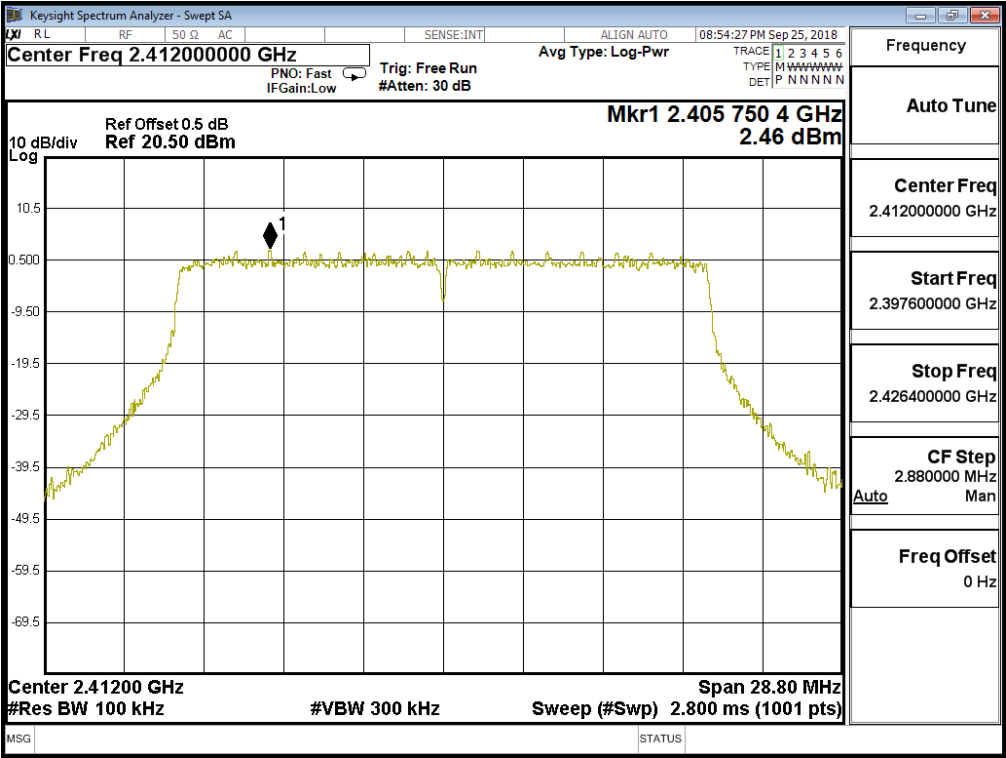


Figure Channel 07: (Chain A)

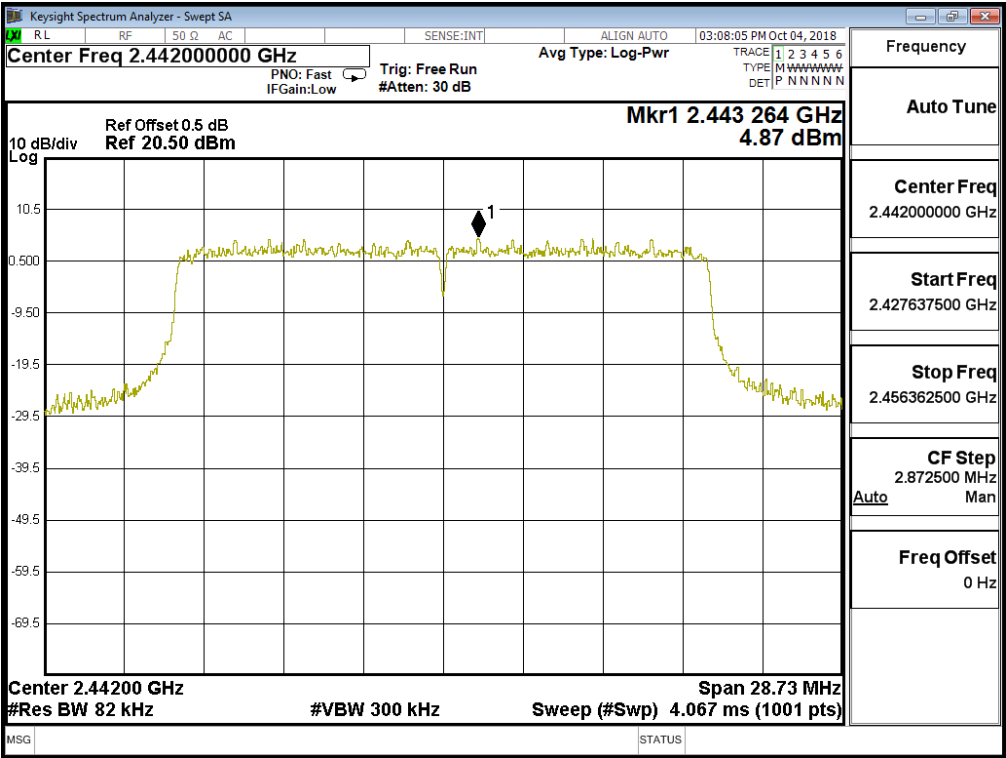


Figure Channel 07: (Chain B)

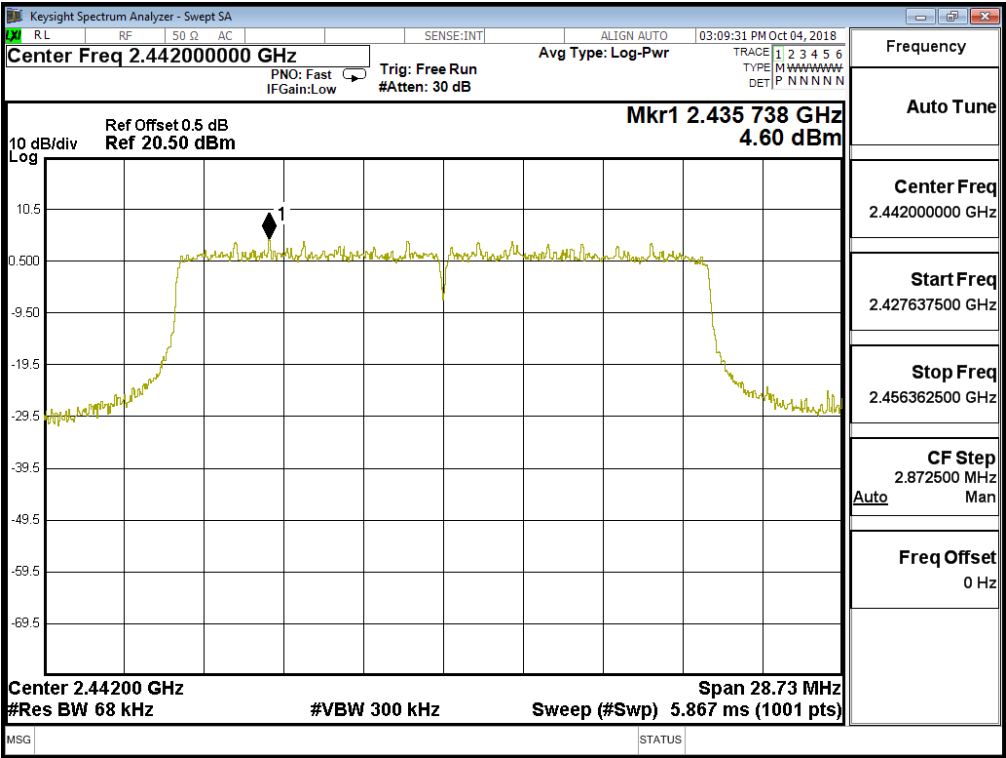


Figure Channel 11: (Chain A)

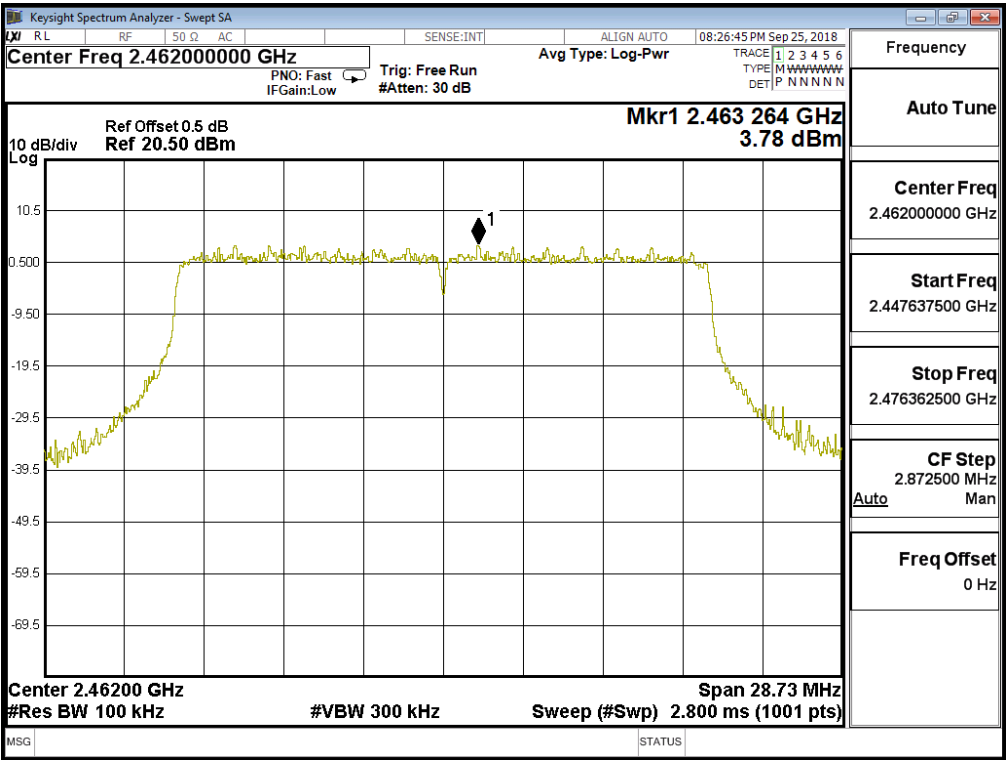


Figure Channel 11: (Chain B)

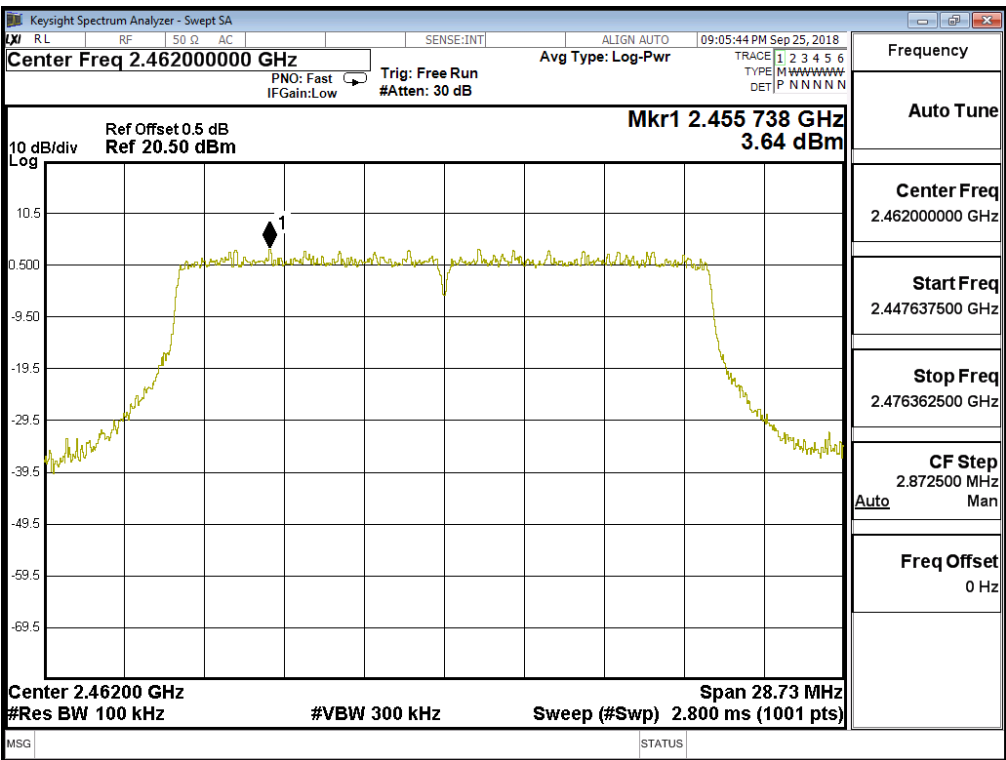


Figure Channel 12: (Chain A)

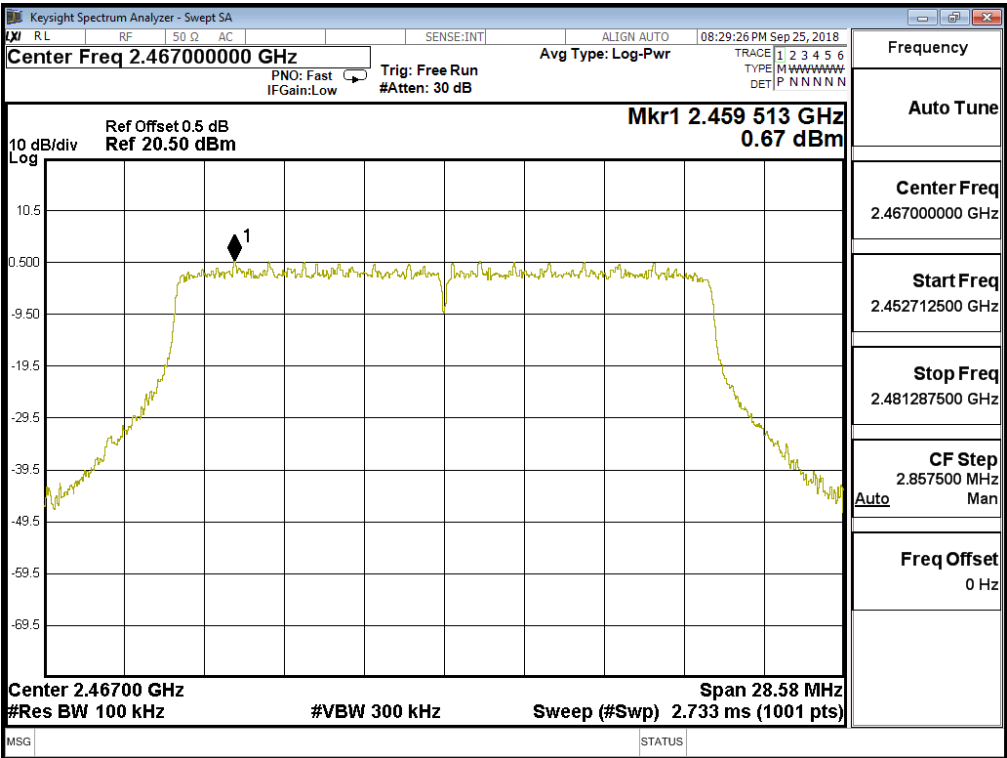


Figure Channel 12: (Chain B)

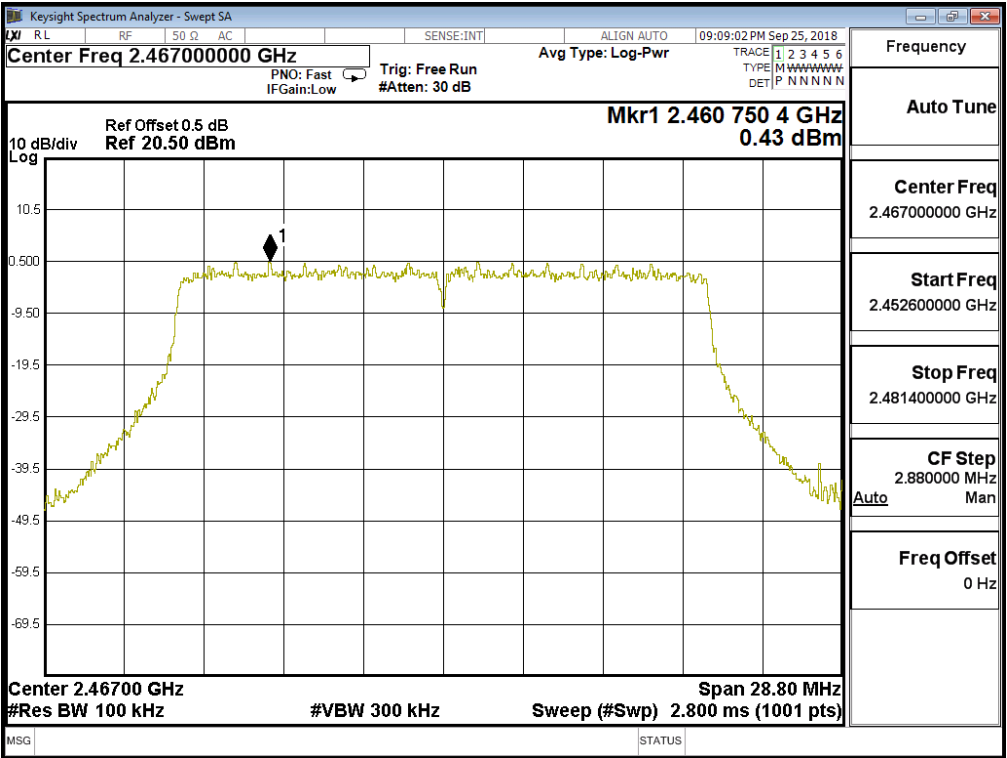


Figure Channel 13: (Chain A)

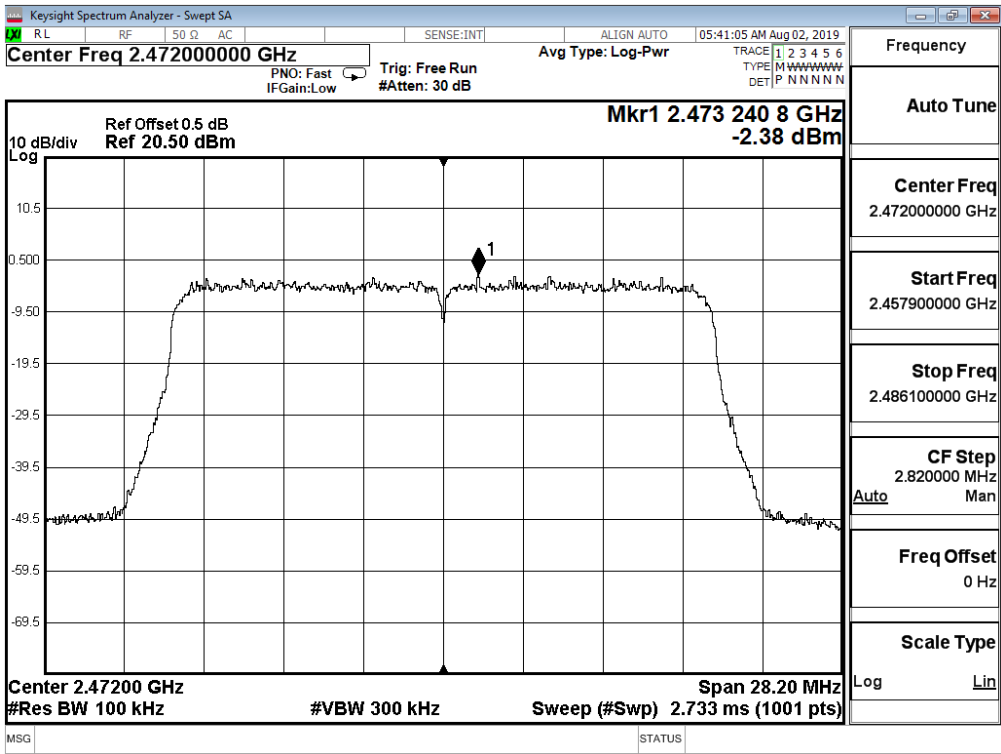
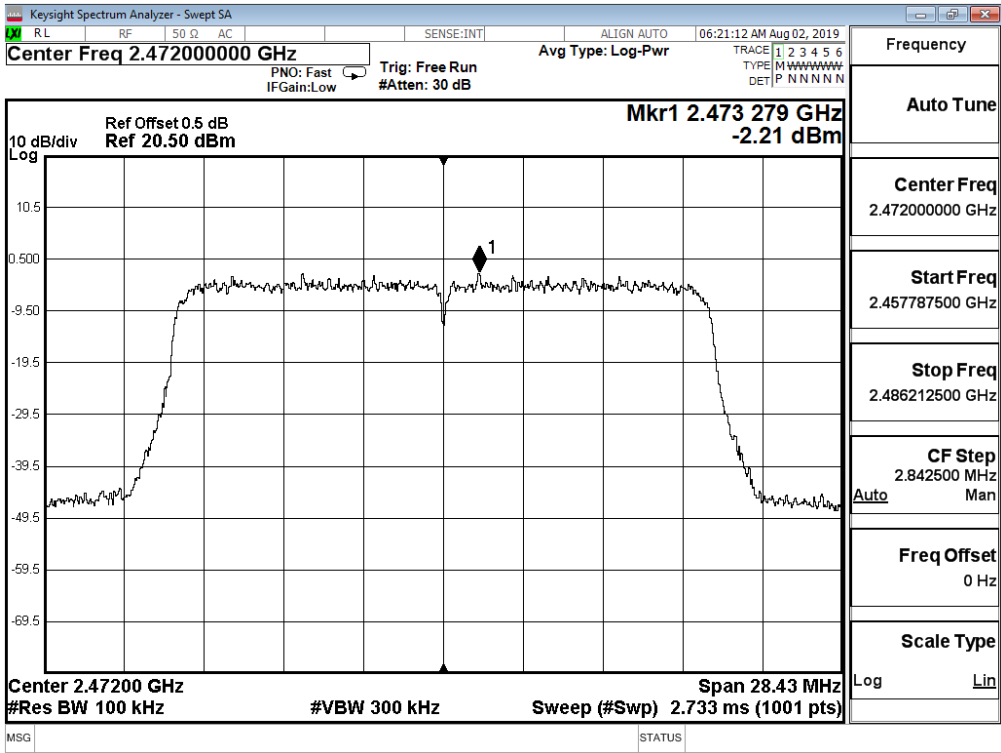


Figure Channel 13: (Chain B)



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 3: 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 °C

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	-5.050	3.010	-2.040	≤ 8dBm	Pass
		B	-5.100	3.010	-2.090	≤ 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)

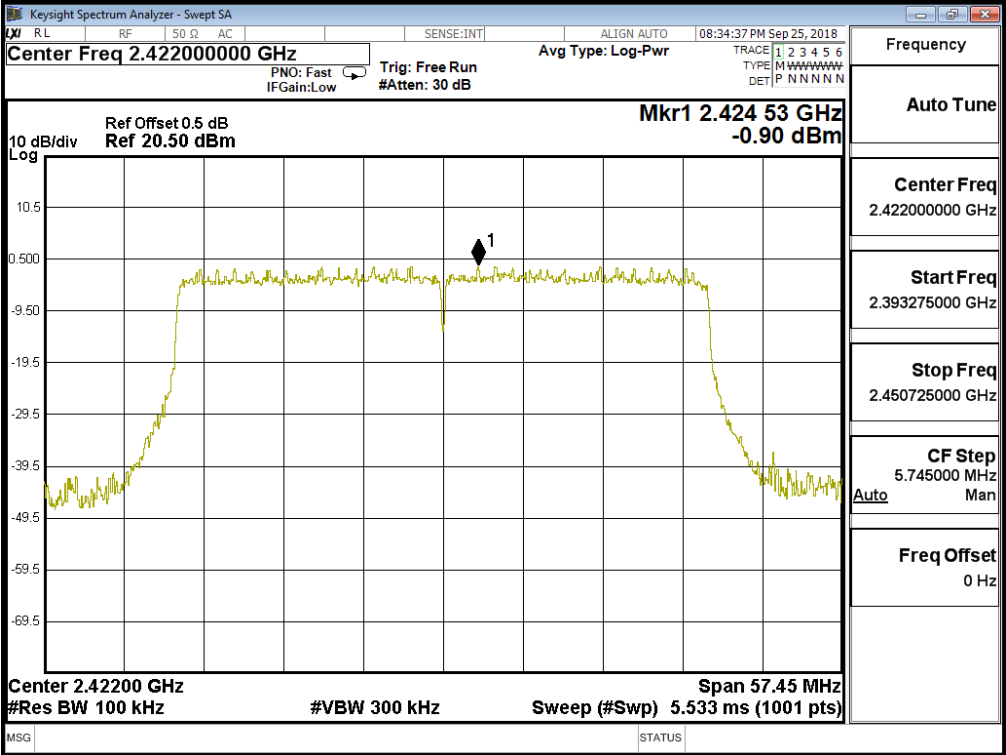


Figure Channel 03: (Chain B)

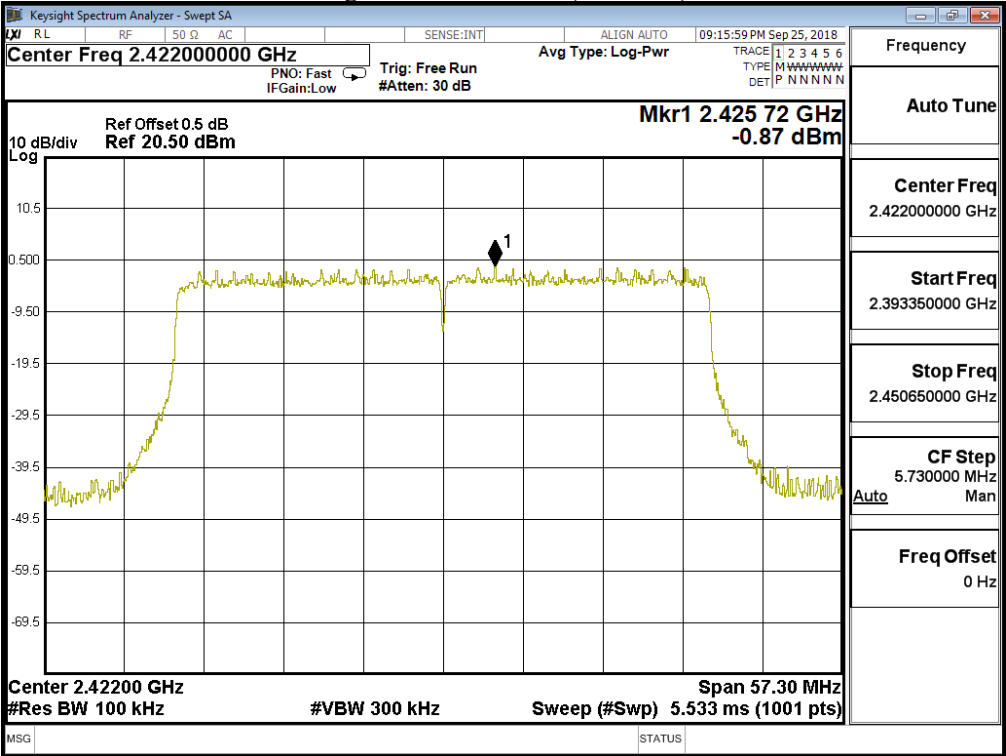


Figure Channel 07: (Chain A)

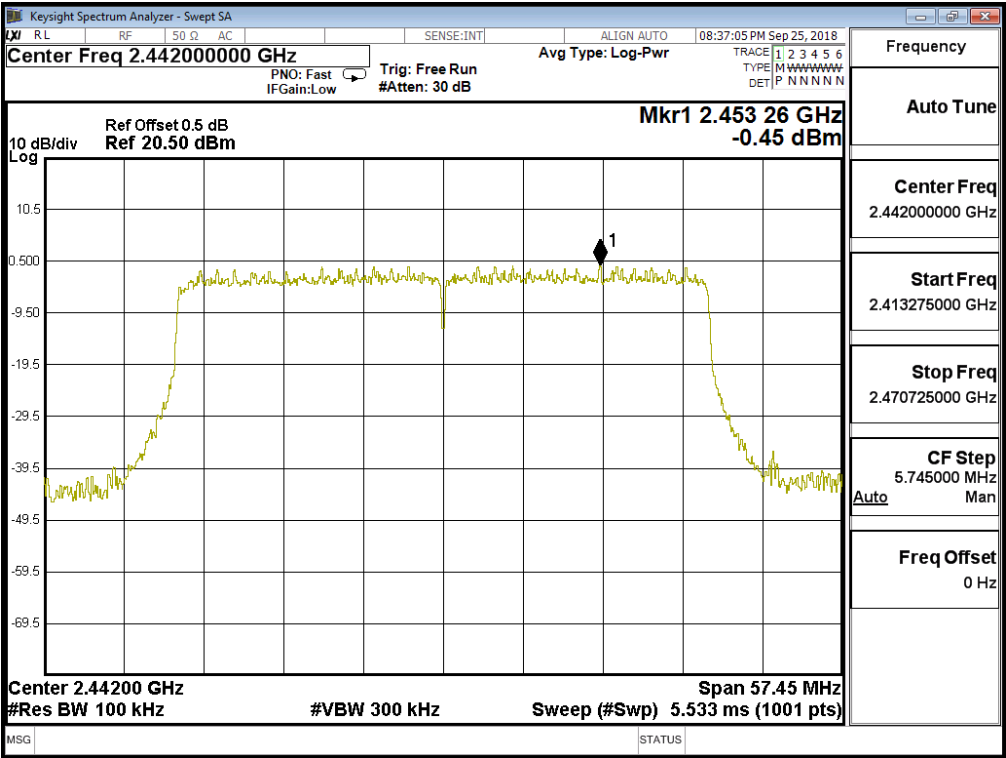


Figure Channel 07: (Chain B)

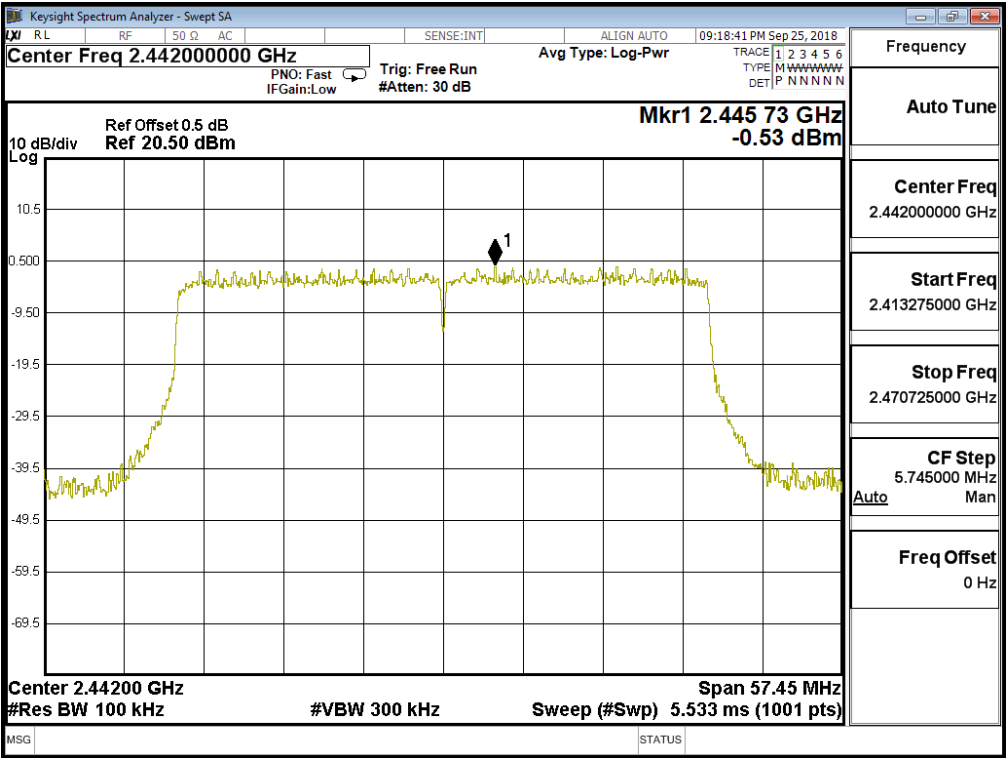


Figure Channel 09: (Chain A)

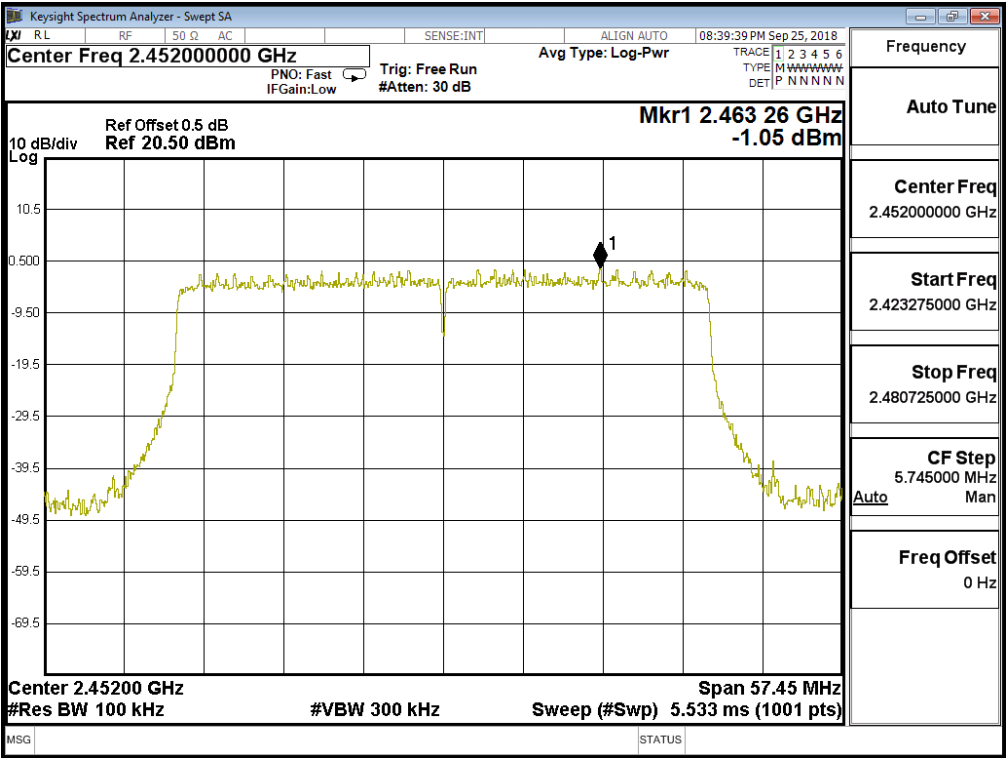


Figure Channel 09: (Chain B)

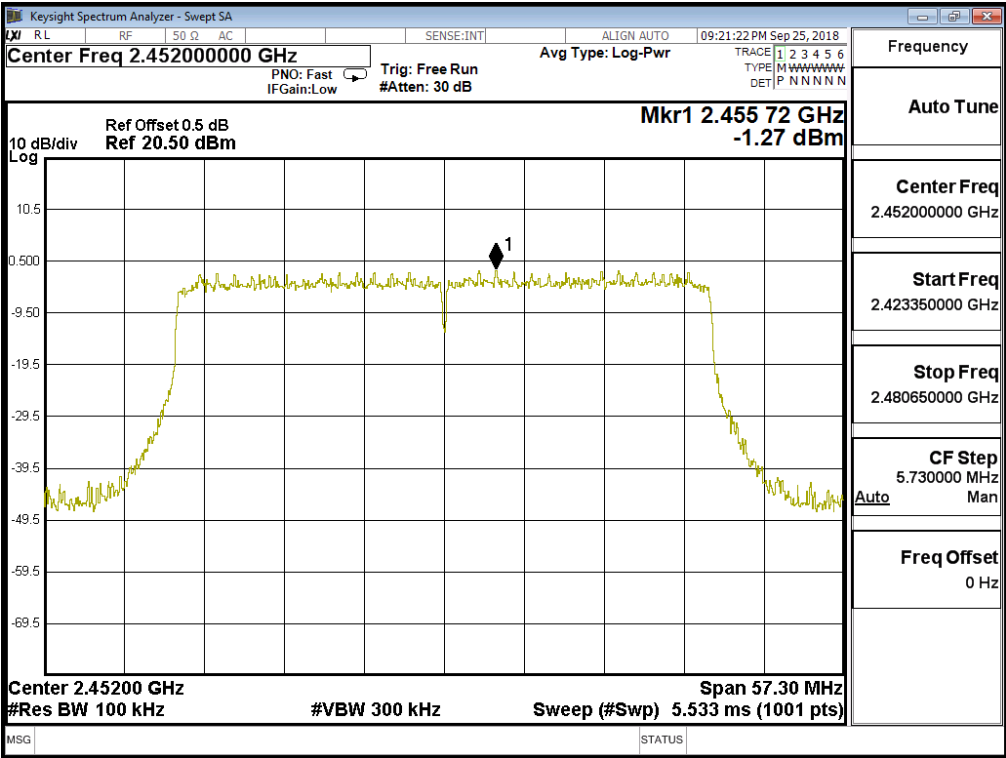


Figure Channel 10: (Chain A)

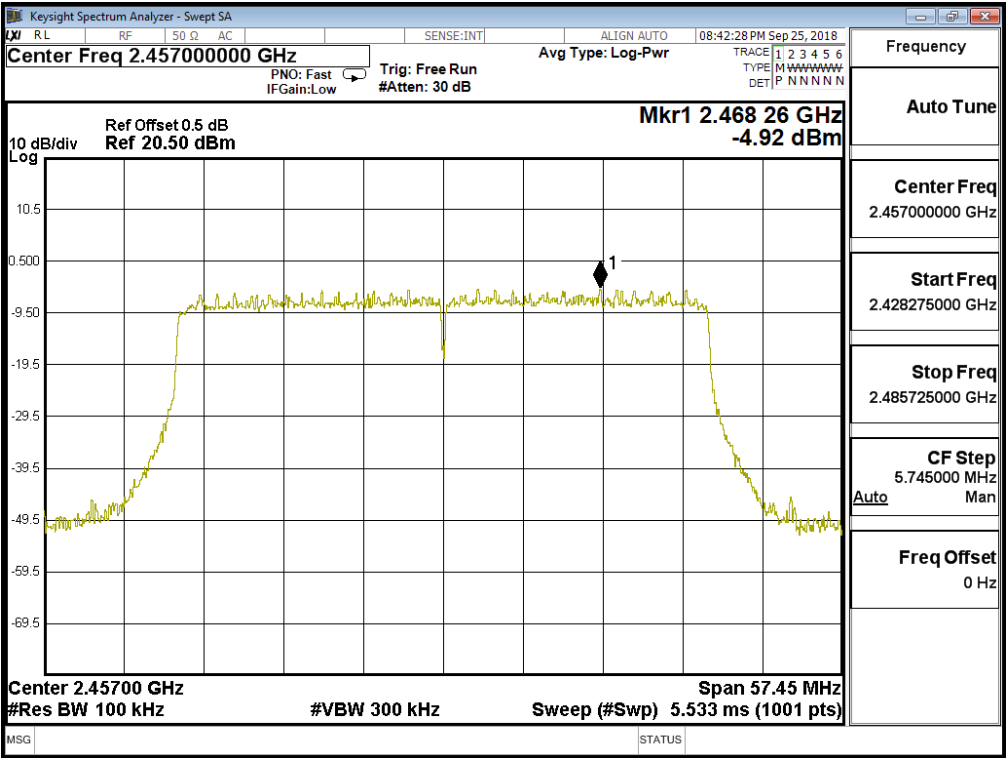


Figure Channel 10: (Chain B)

