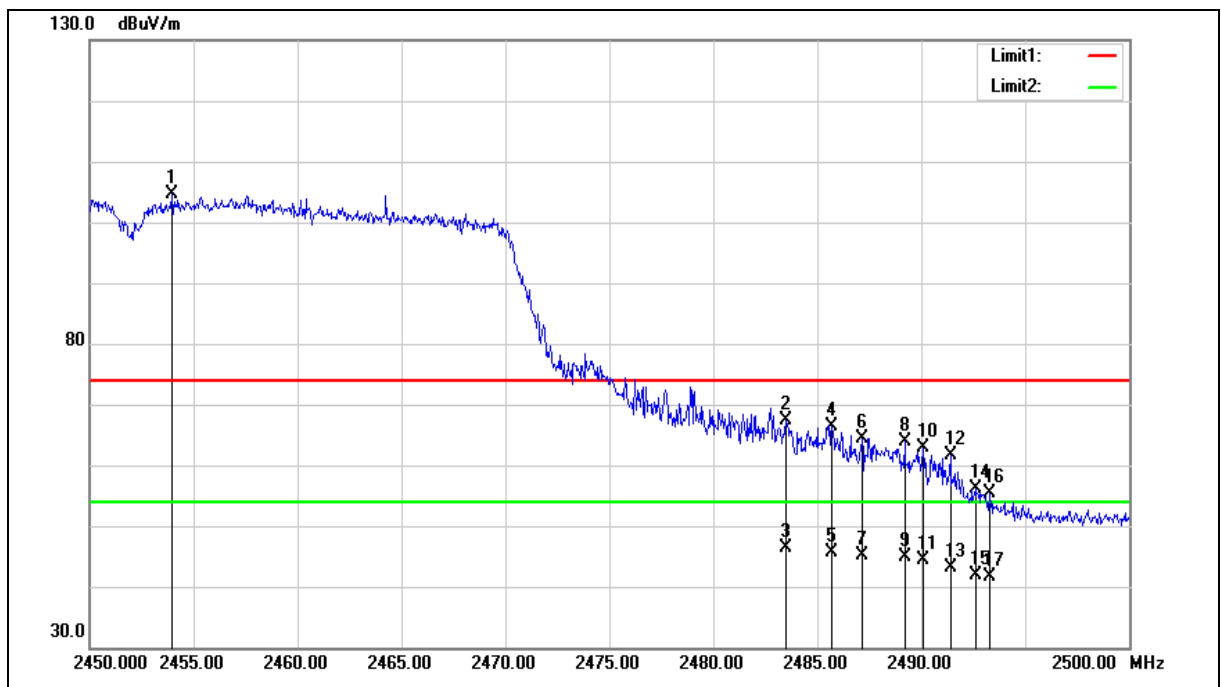


Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2452 MHz	Temp.(°C)/Hum. (%RH):	26(°C)/60 %RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2453.950	101.04	3.69	104.73	--	--	peak
2	2483.500	63.50	3.76	67.26	74.00	-6.74	peak
3	2483.500	42.66	3.76	46.42	54.00	-7.58	AVG
4	2485.700	62.67	3.77	66.44	74.00	-7.56	peak
5	2485.700	41.80	3.77	45.57	54.00	-8.43	AVG
6	2487.150	60.68	3.77	64.45	74.00	-9.55	peak
7	2487.150	41.45	3.77	45.22	54.00	-8.78	AVG
8	2489.200	60.01	3.78	63.79	74.00	-10.21	peak
9	2489.200	41.06	3.78	44.84	54.00	-9.16	AVG
10	2490.100	59.02	3.78	62.80	74.00	-11.20	peak
11	2490.100	40.64	3.78	44.42	54.00	-9.58	AVG
12	2491.400	57.79	3.78	61.57	74.00	-12.43	peak
13	2491.400	39.43	3.78	43.21	54.00	-10.79	AVG
14	2492.600	52.45	3.78	56.23	74.00	-17.77	peak
15	2492.600	38.21	3.78	41.99	54.00	-12.01	AVG
16	2493.300	51.60	3.79	55.39	74.00	-18.61	peak
17	2493.300	37.94	3.79	41.73	54.00	-12.27	AVG

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

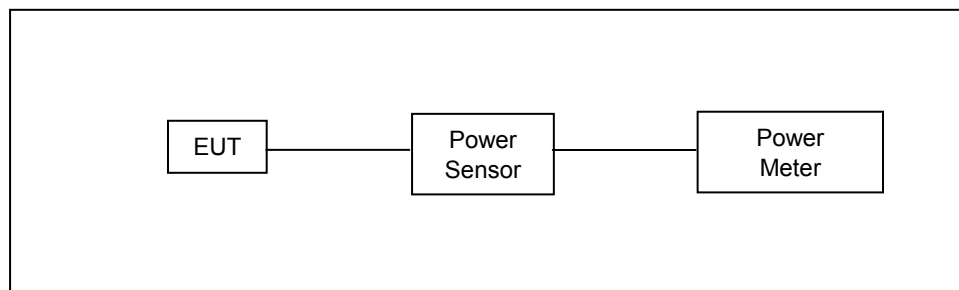
3. When the peak results are less than average limit, so not need to evaluate the average.

4.2.2 峰值傳導輸出功率之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.2(1)(C)節之要求，操作於 2400-2483.5 兆赫(MHz)數位調變技術系統：1 瓦(W)(含)以下

測試架構圖：



測試結果:

操作模式：Mode 2 / Mode 3 / Mode 4 / Mode 5							
操作模式	Data Rate (Mbps)	頻道 CH	輸出功率(Average)		輸出功率(Peak)		Limit (dBm)
			dBm	W	dBm	W	
Mode 2	1	01	21.51	0.142	25.15	0.327	30.00
		06	22.22	0.167	25.88	0.387	30.00
		11	20.11	0.103	23.66	0.232	30.00
Mode 3	6	01	18.24	0.067	26.37	0.434	30.00
		06	21.12	0.129	27.78	0.600	30.00
		11	15.03	0.032	24.30	0.269	30.00
Mode 4	6.5	01	19.60	0.091	27.22	0.527	30.00
		06	21.29	0.135	27.95	0.624	30.00
		11	15.27	0.034	24.31	0.270	30.00
Mode 5	13.5	03	19.88	0.097	27.61	0.577	30.00
		06	20.05	0.101	27.80	0.603	30.00
		09	16.15	0.041	25.20	0.331	30.00

4.2.3 天線規格之要求

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.3(3)節之要求,除 3.10.1.3(1)及 3.10.1.3(2)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限制值。

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.4 節之要求,天線之規格不受第 2.2 節規定之限制

判定結果:

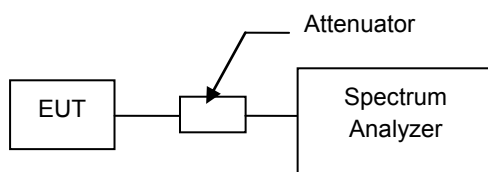
符合,本產品 2.4 GHz 使用全向天線(製造商:上海日安天線有限公司,型號: C15N17Z100IX),最大增益值 2 dBi。

4.2.4 非必要頻帶之量測

合格標準:

發射限制： 使用頻帶範圍外之任意 100 千赫 (kHz)內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz)內的射頻功率，須衰減 20 分貝(dB)，以射頻傳導或輻射方式測量。

測試架構圖：



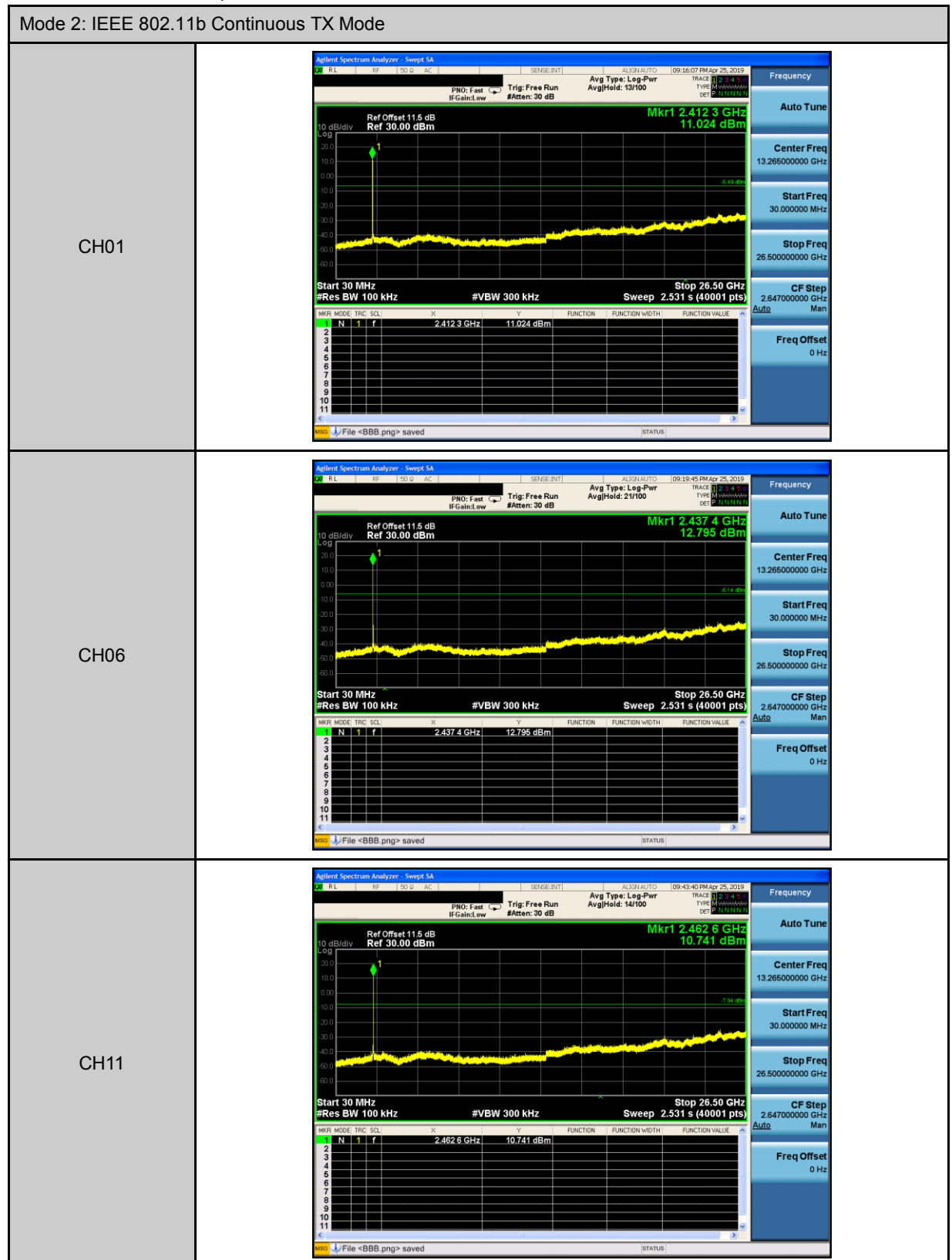
測試結果:

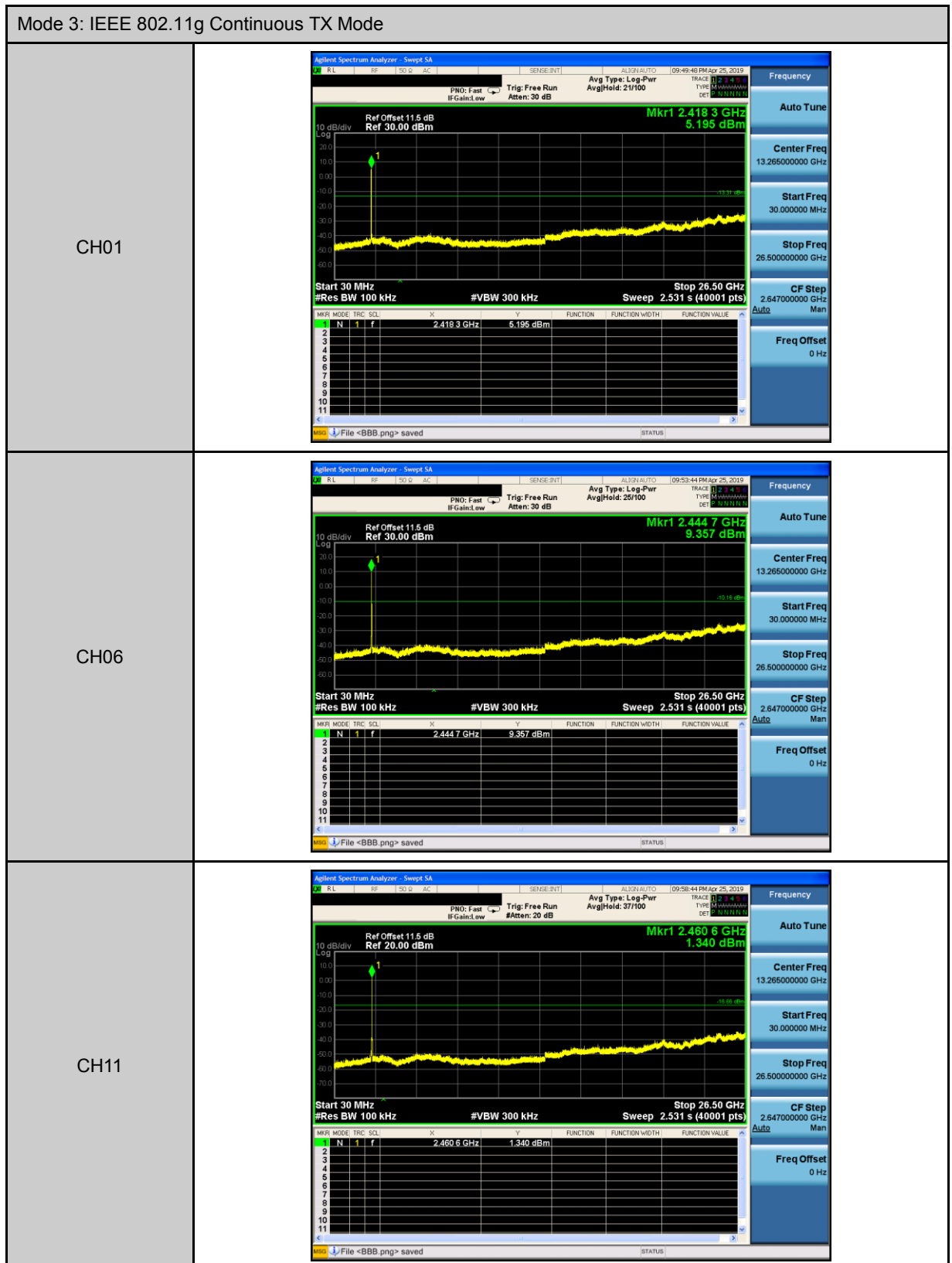
操作模式	: Mode 2 / Mode 3 / Mode 4 / Mode 5
測試結果	: 合格
量測之結果掃圖如下頁所示	

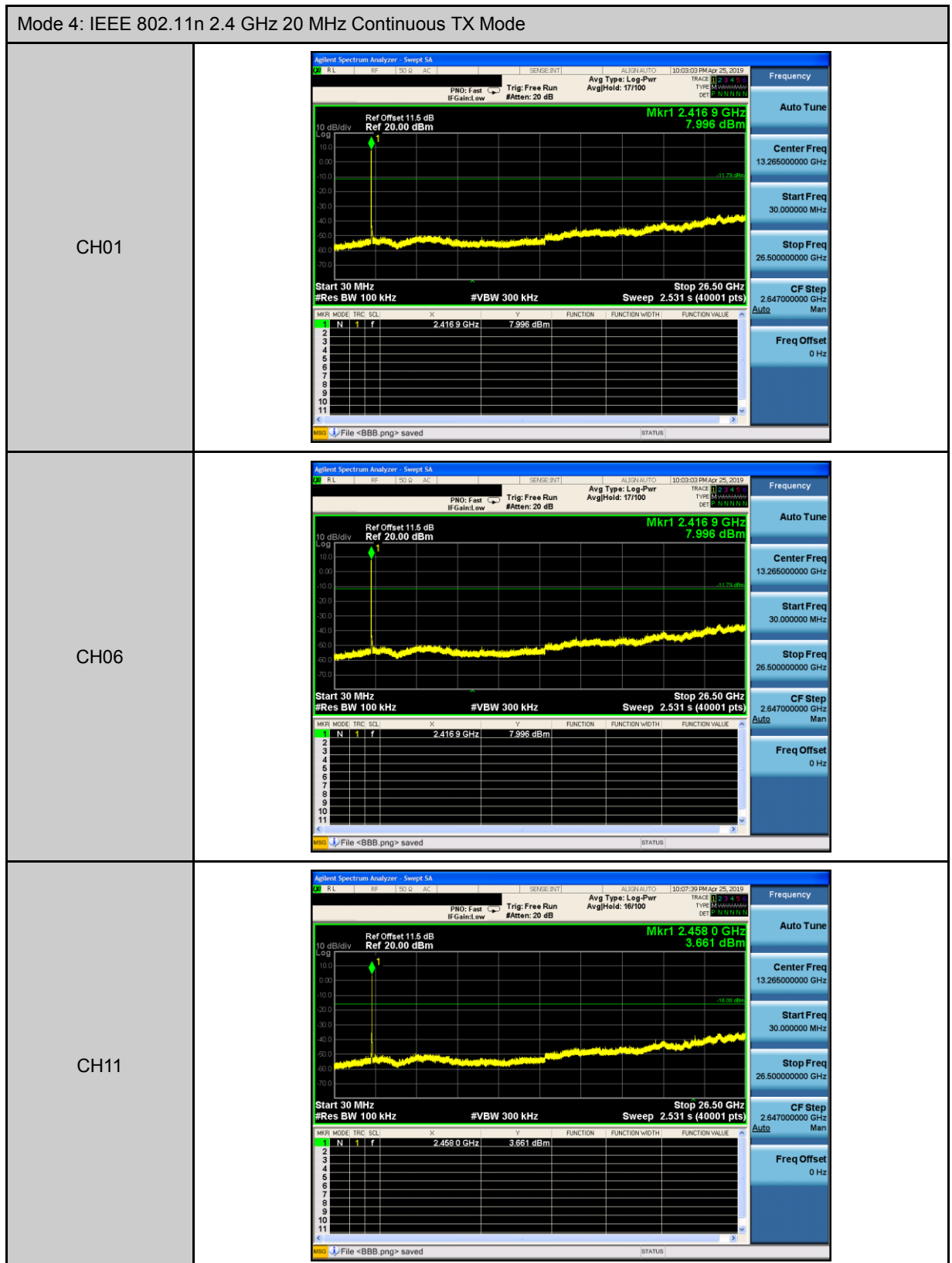
附註 1: 於使用頻帶範圍之任意 100 千赫 (kHz)內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz)內的射頻功率，衰減 20 分貝(dB)以上，符合規定。

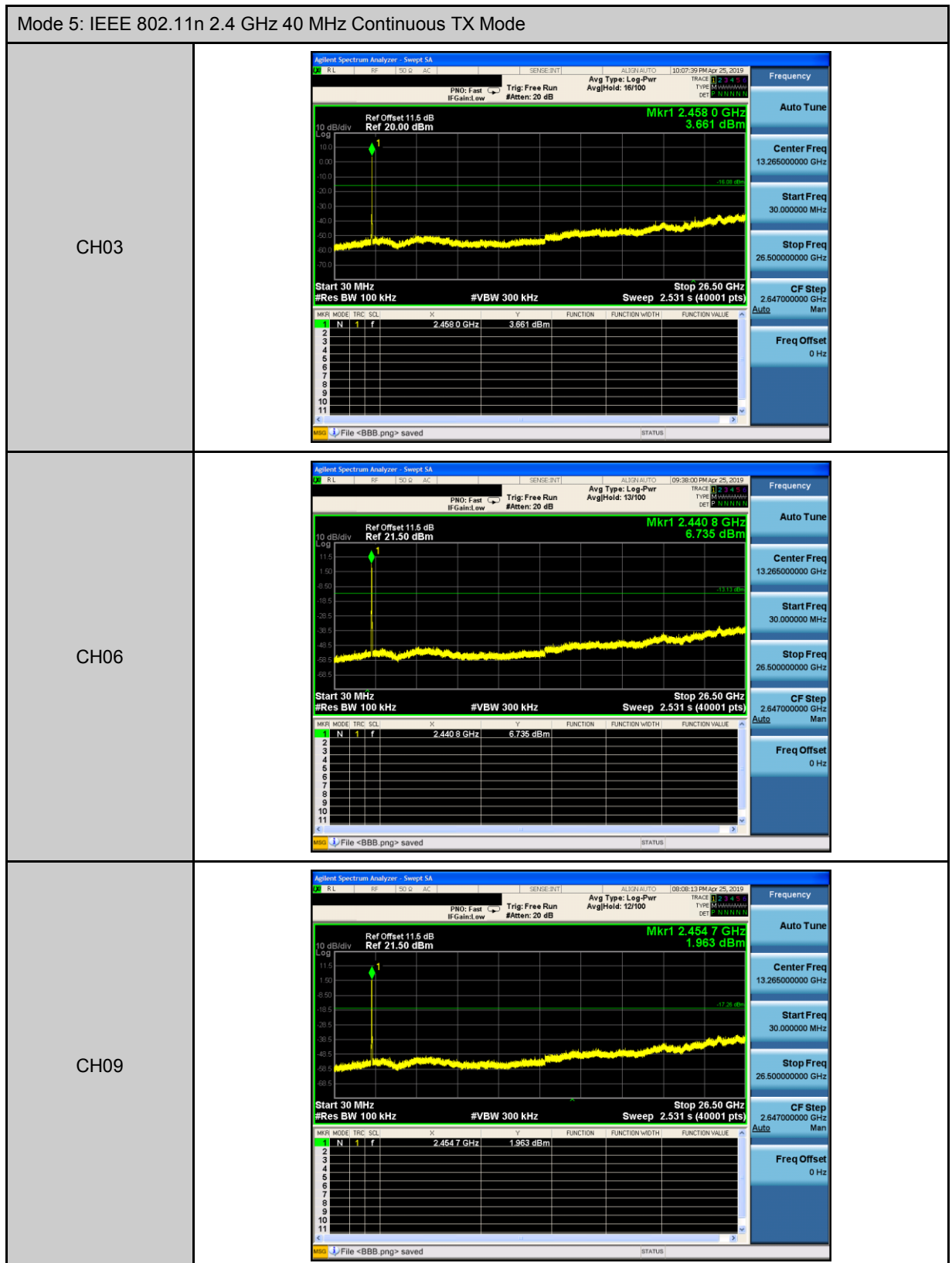
附註 2: 測試結果頻帶外之輻射雜訊皆小於主頻 TX 20 dB。

Out of Band Conducted Spurious Emission



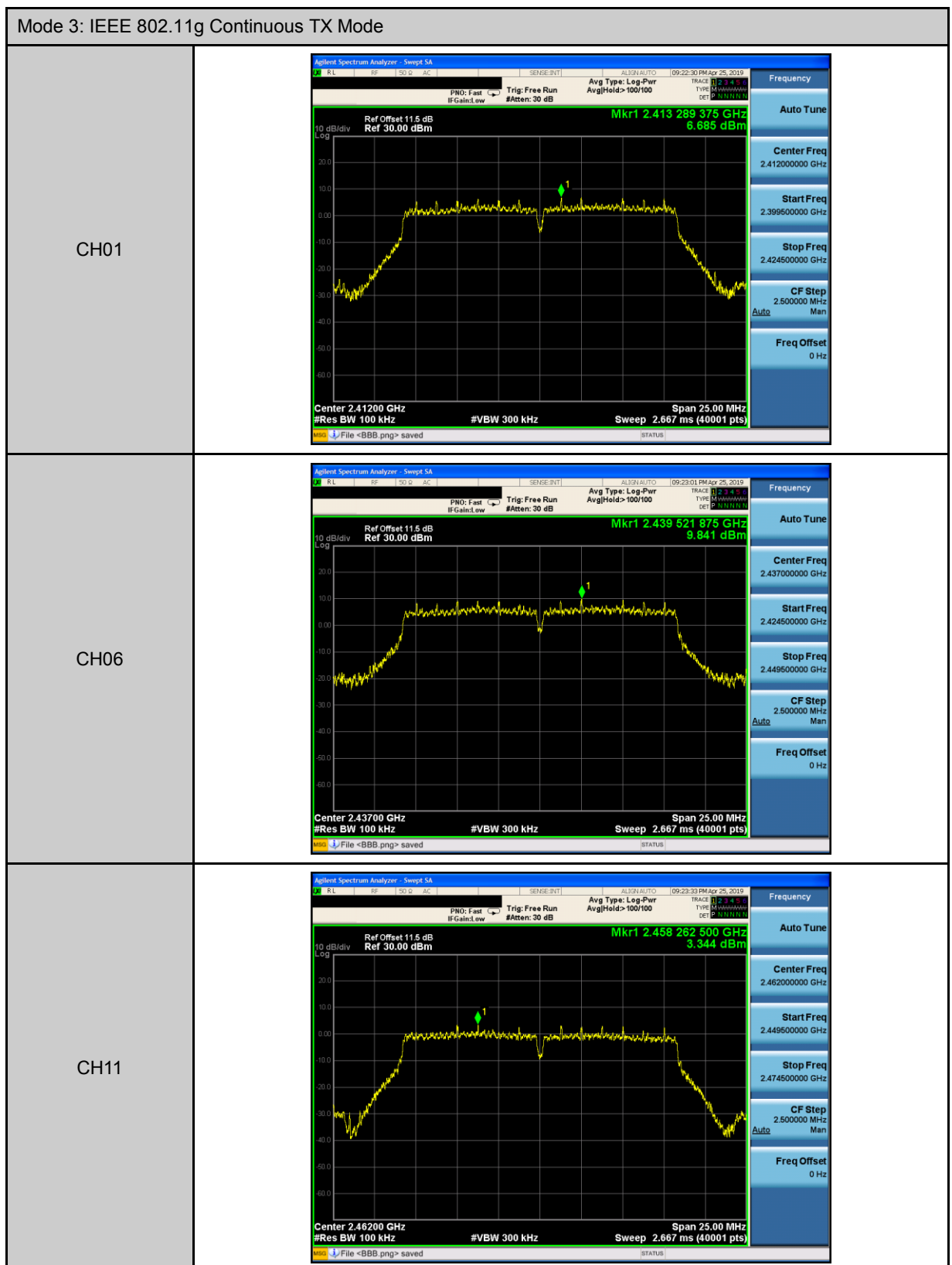


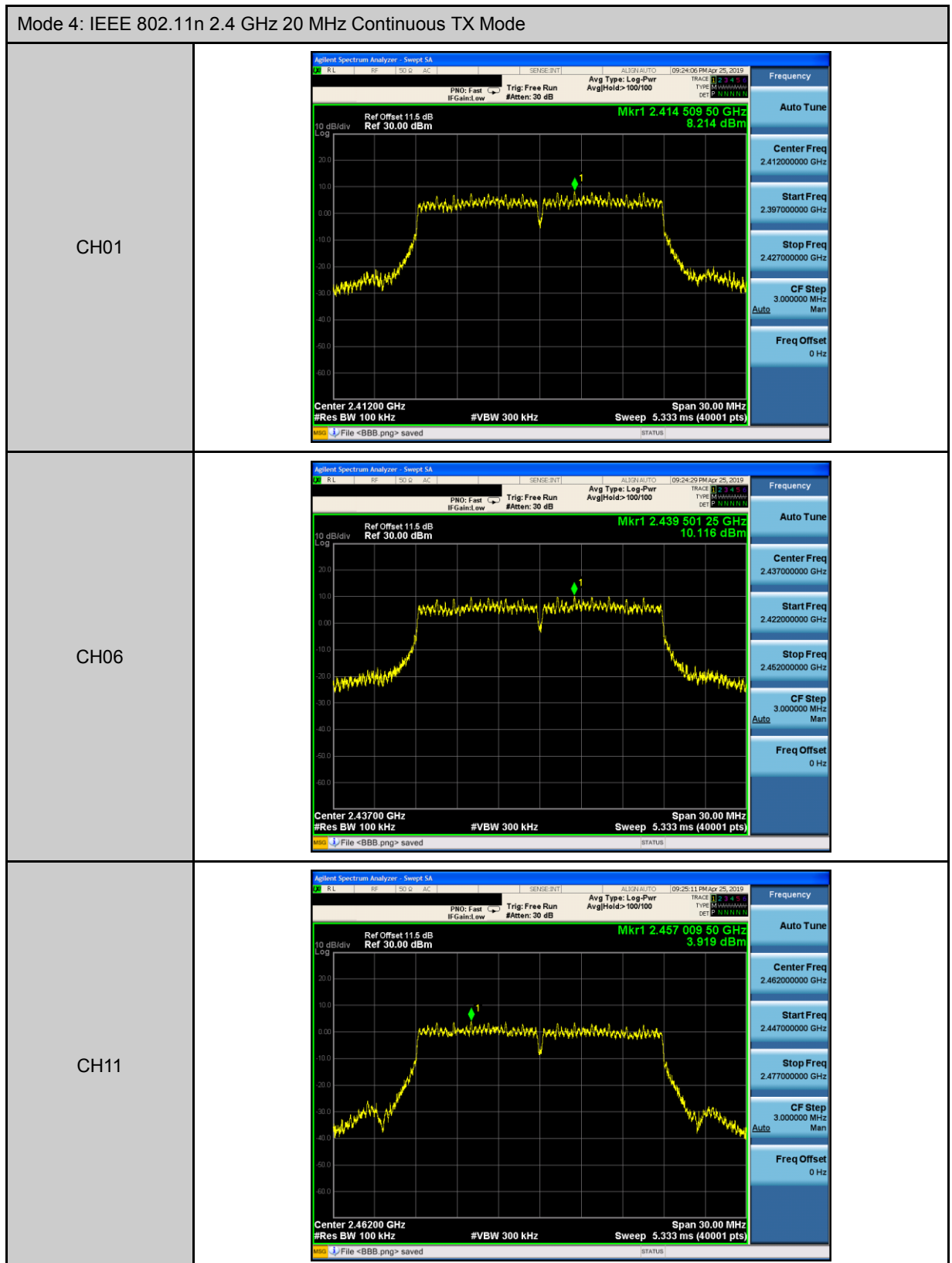


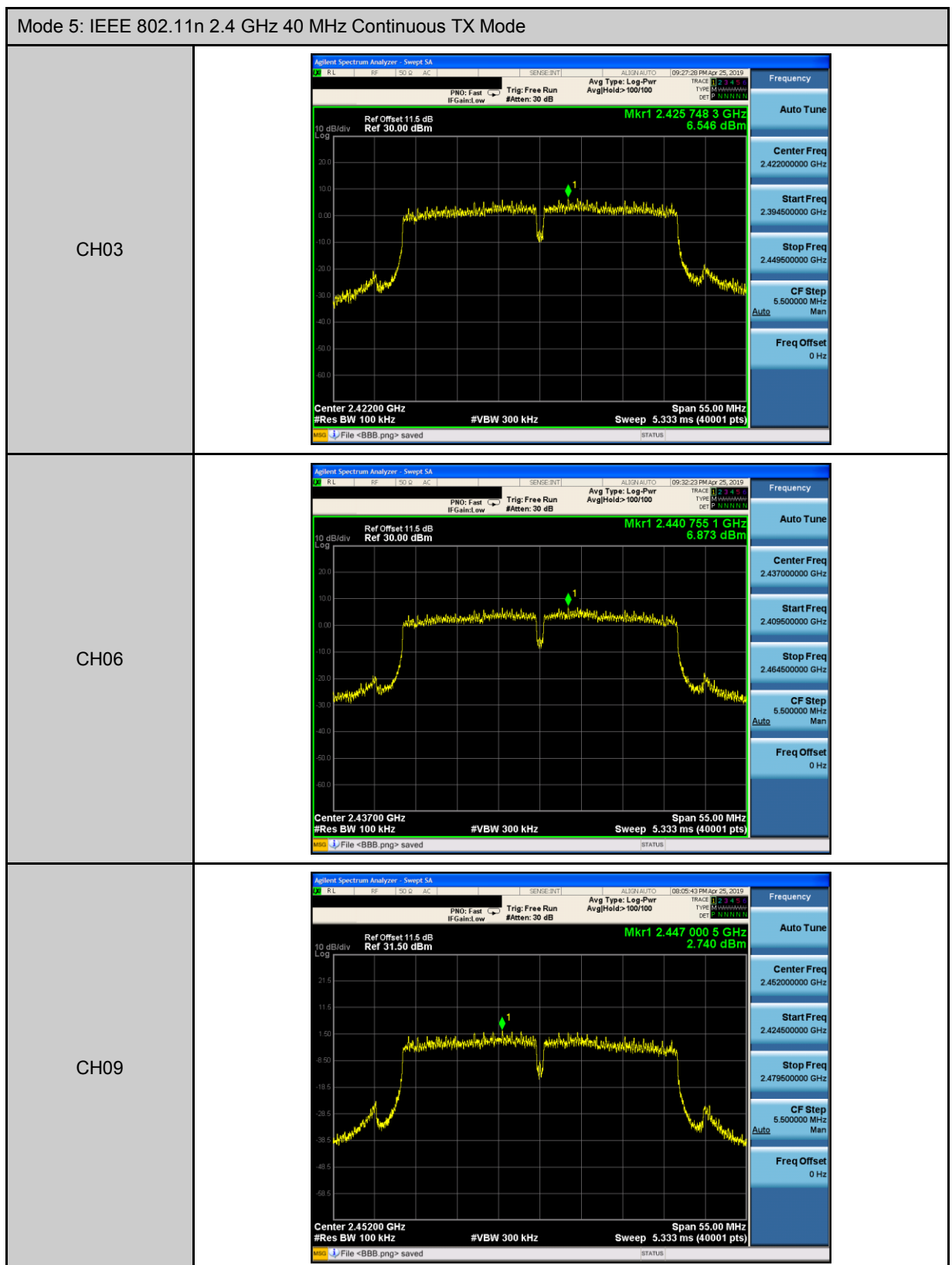


Reference level

Mode 2: IEEE 802.11b Continuous TX Mode	
CH01	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset: 11.5 dB Ref: 30.00 dBm</p> <p>Mkr1 2.412 507 6 GHz 13.506 dBm</p> <p>Center 2.412000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Span 16.00 MHz</p> <p>File <BBB.png> saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.412000000 GHz</p> <p>Start Freq 2.404000000 GHz</p> <p>Stop Freq 2.420000000 GHz</p> <p>CF Step 1.600000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
CH06	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset: 11.5 dB Ref: 30.00 dBm</p> <p>Mkr1 2.436 498 4 GHz 13.861 dBm</p> <p>Center 2.437000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Span 16.00 MHz</p> <p>File <BBB.png> saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.437000000 GHz</p> <p>Start Freq 2.429000000 GHz</p> <p>Stop Freq 2.445000000 GHz</p> <p>CF Step 1.600000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
CH11	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Ref Offset: 11.5 dB Ref: 30.00 dBm</p> <p>Mkr1 2.461 508 8 GHz 12.058 dBm</p> <p>Center 2.462000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.667 ms (40001 pts)</p> <p>Span 16.00 MHz</p> <p>File <BBB.png> saved</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.462000000 GHz</p> <p>Start Freq 2.454000000 GHz</p> <p>Stop Freq 2.470000000 GHz</p> <p>CF Step 1.600000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>



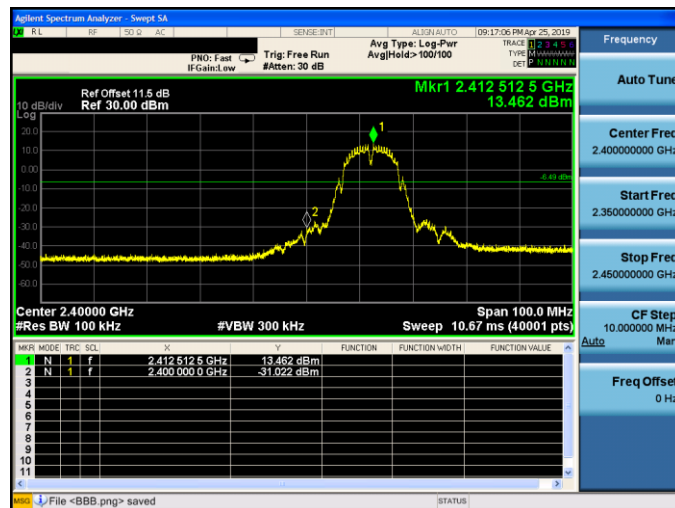




Conducted Band Edge

Mode 2: IEEE 802.11b Continuous TX Mode

CH01



CH11

