

6. 佔用頻道寬度 (99% & 26dB & DTS)

6.1. 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4.7.3.4節之要求，最大功率頻譜密度檢驗規定：

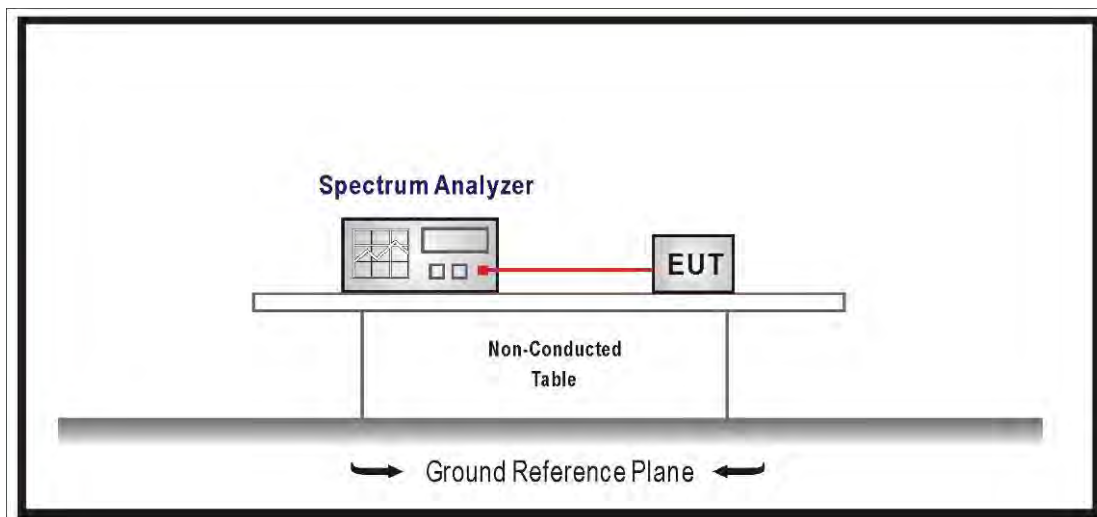
- (A) 應將測試儀器直接連接待測物，以傳導方式執行。
- (B) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及5.47 GHz~5.725 GHz 頻段，測試儀器之頻寬應設定為1 MHz 頻寬或待測物之26 dB發射頻寬，兩者取較小者。
- (C) 5.725 GHz~5.850 GHz 頻段，測試儀器之頻寬應設定為500 kHz 或待測物之26 dB發射頻寬，兩者取較小者。
- (D) 解析頻寬小於(B)或(C)時，應以補償方式計算總功率頻譜密度。

依據國家通訊傳播委員會低功率射頻電機技術規範之第4.7.3.3節之要求，在5.725 GHz~5.850 GHz 頻段操作之設備，其6 dB頻寬至少應有500 kHz。

6.2. 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，設定頻譜分析儀之解析度頻寬約為 1%宣告頻寬，視訊頻寬不小於解析度頻寬，頻率掃瞄範圍(SPAN)遠大於解析度頻寬。待測物應在正常發射狀態下量測。

6.3. 測試架構圖

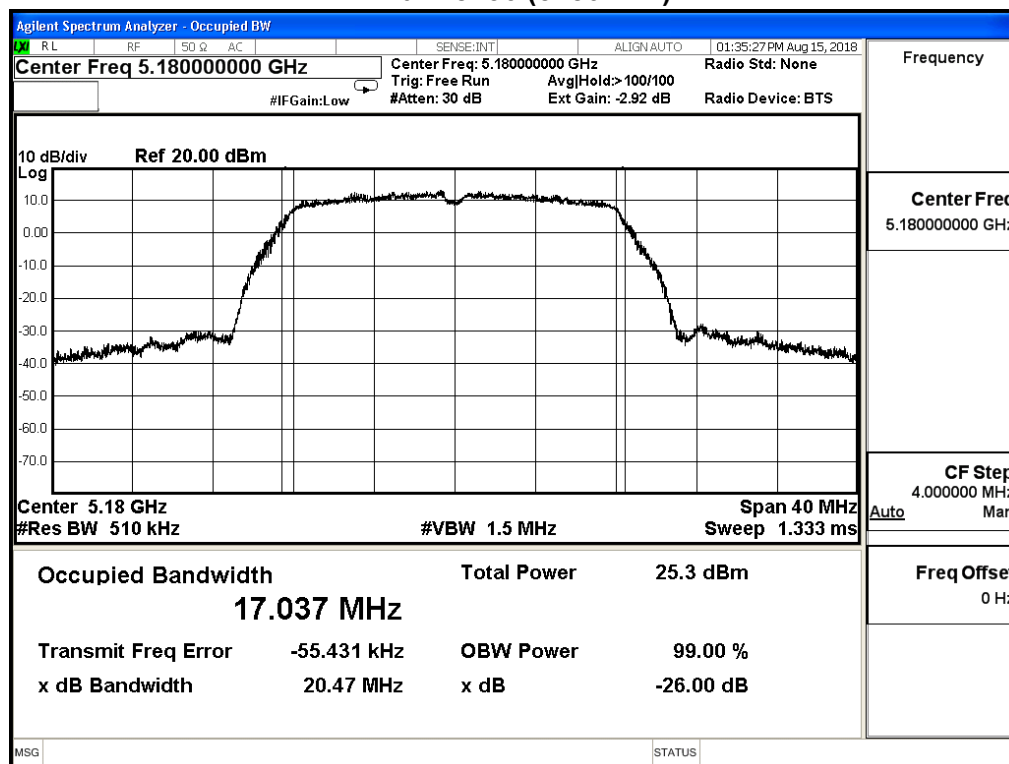


6.4. 測試結果

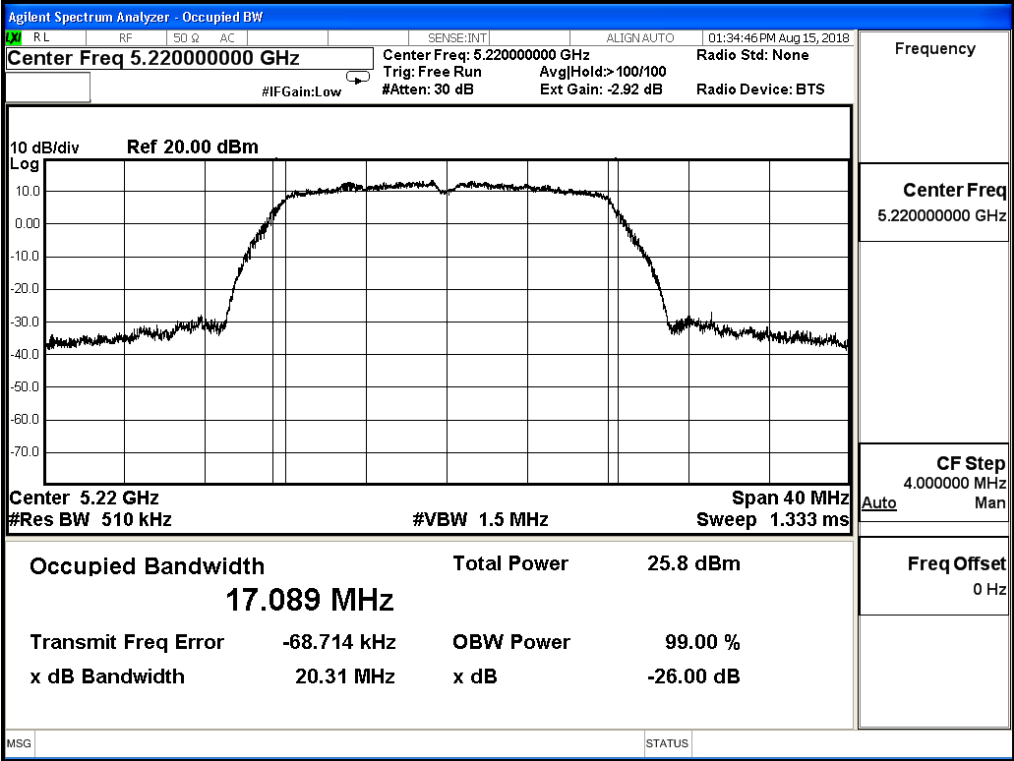
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.470	17.037	--
44	5220	20.310	17.089	--
48	5240	20.350	17.064	--

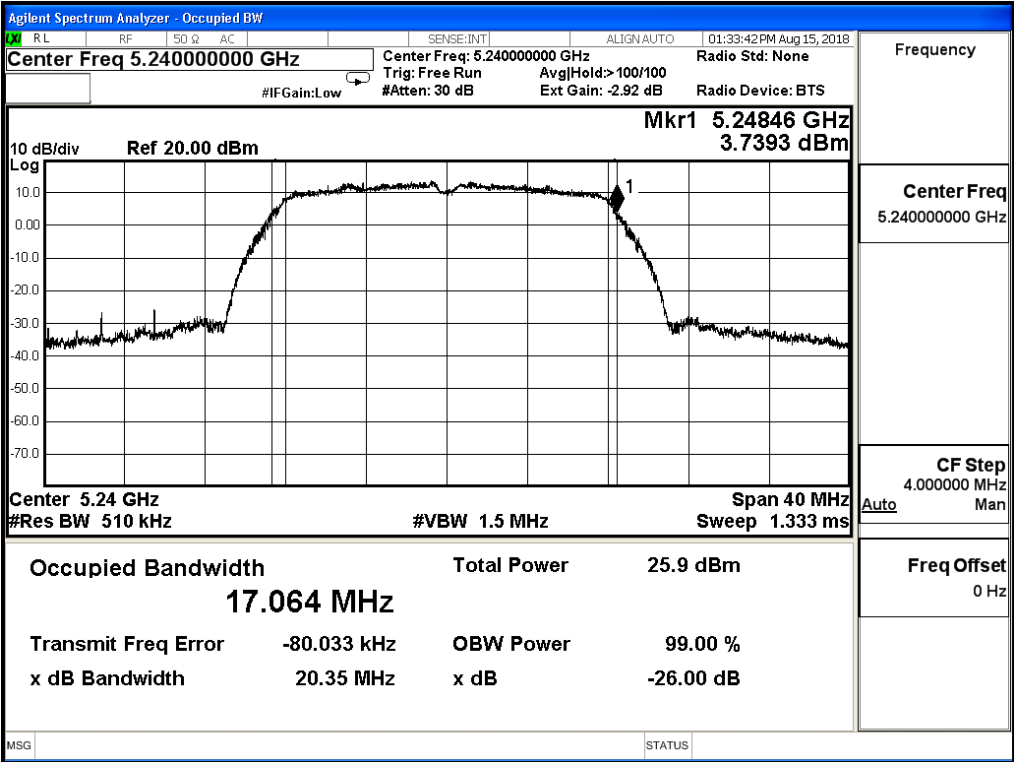
Channel 36 (5180MHz)



Channel 44 (5220MHz)



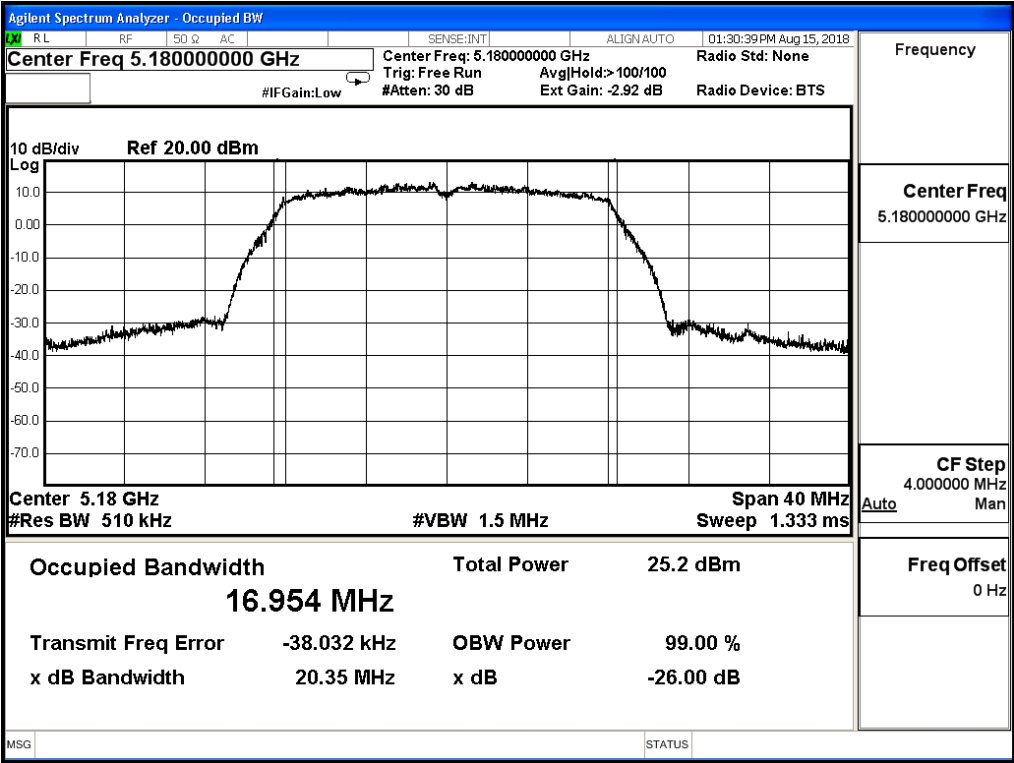
Channel 48 (5240MHz)



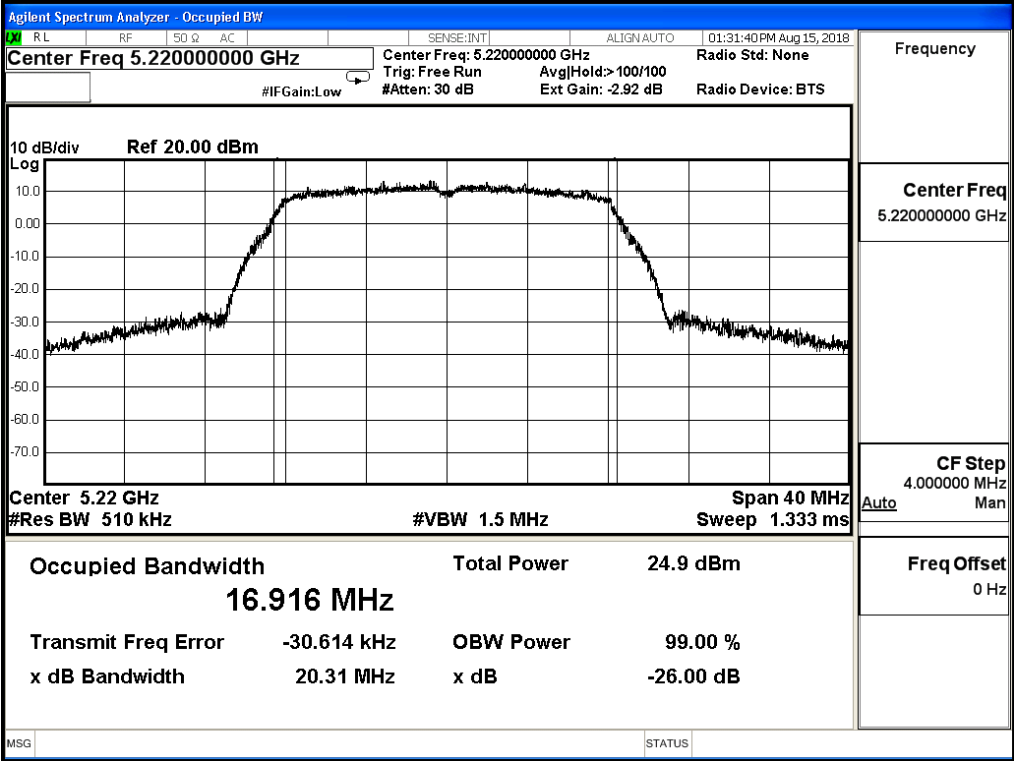
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.350	16.954	--
44	5220	20.310	16.916	--
48	5240	20.250	16.976	--

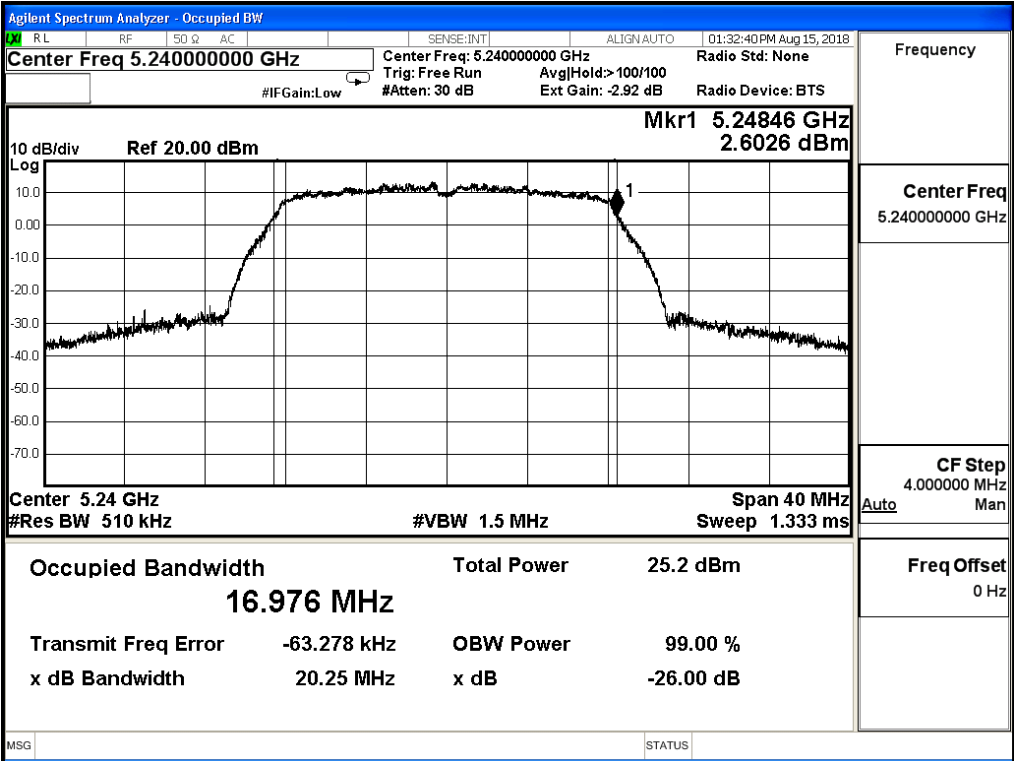
Channel 36 (5180MHz)



Channel 44 (5220MHz)



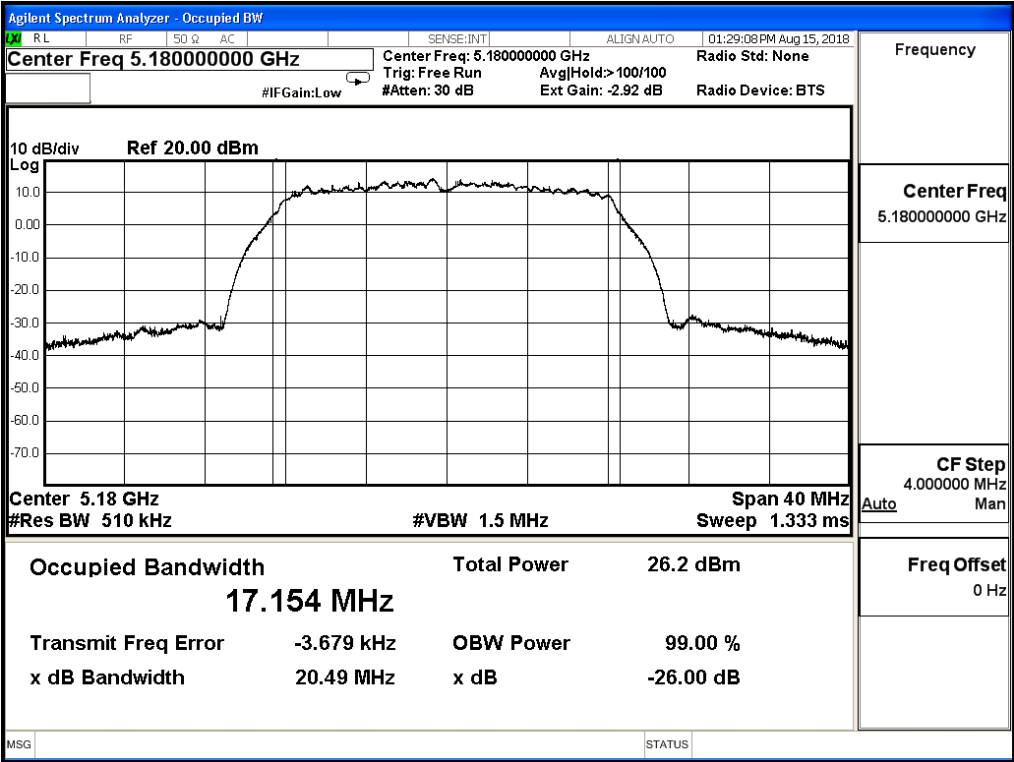
Channel 48 (5240MHz)



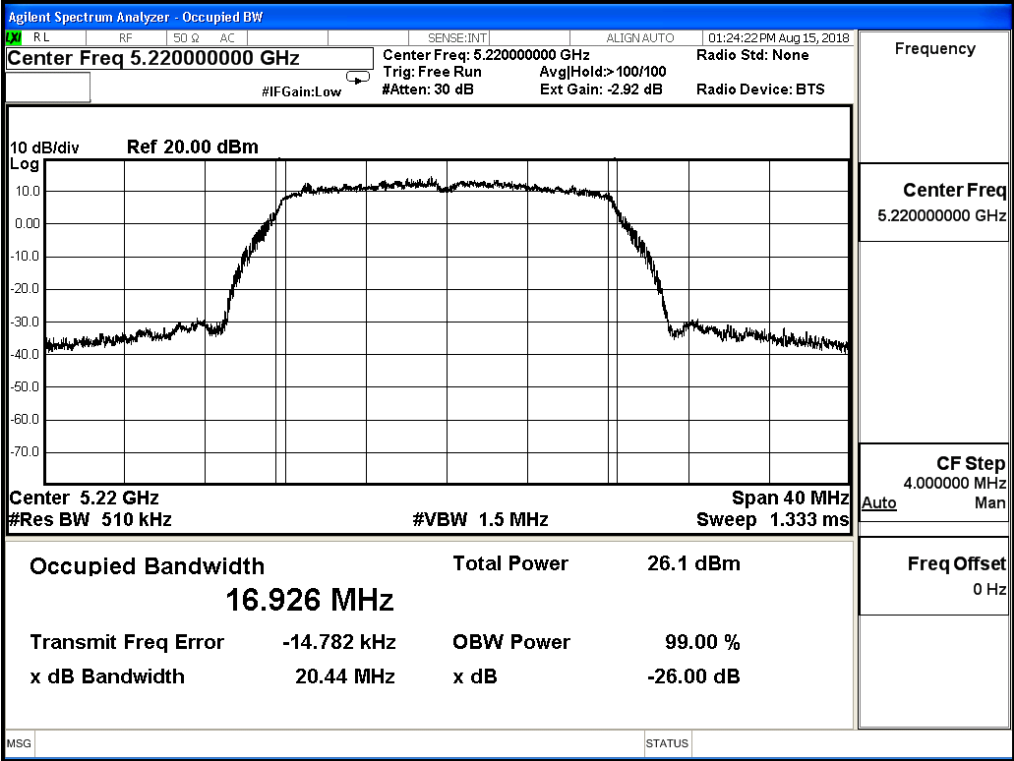
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.490	17.154	--
44	5220	20.440	16.926	--
48	5240	20.490	16.997	--

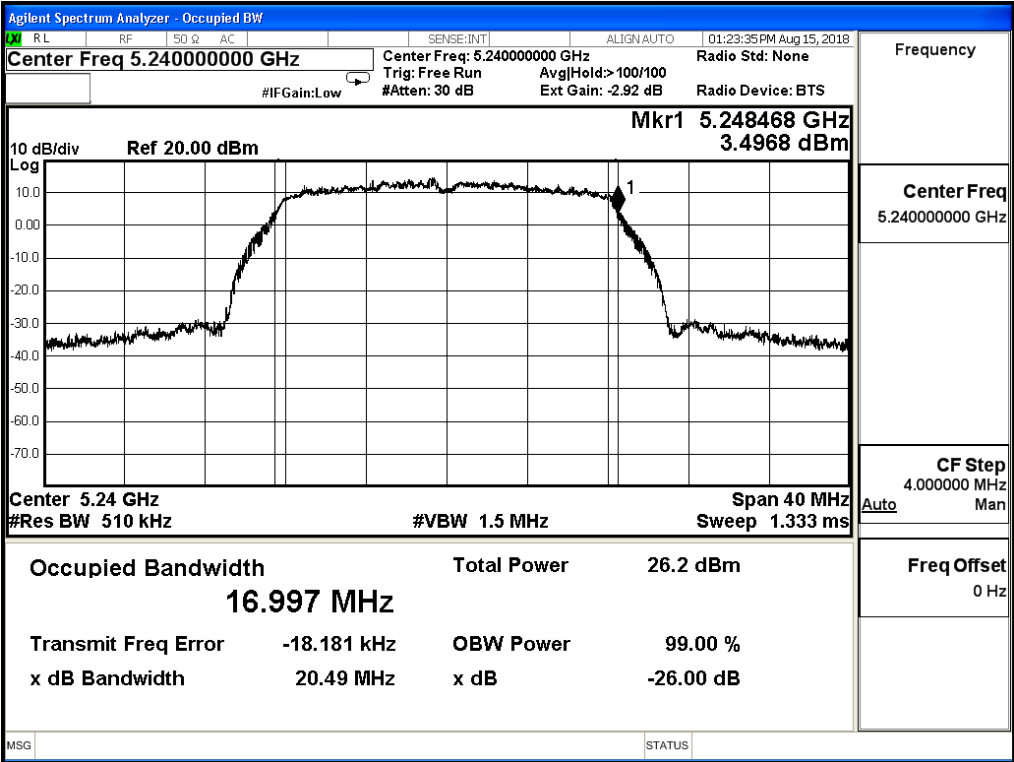
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

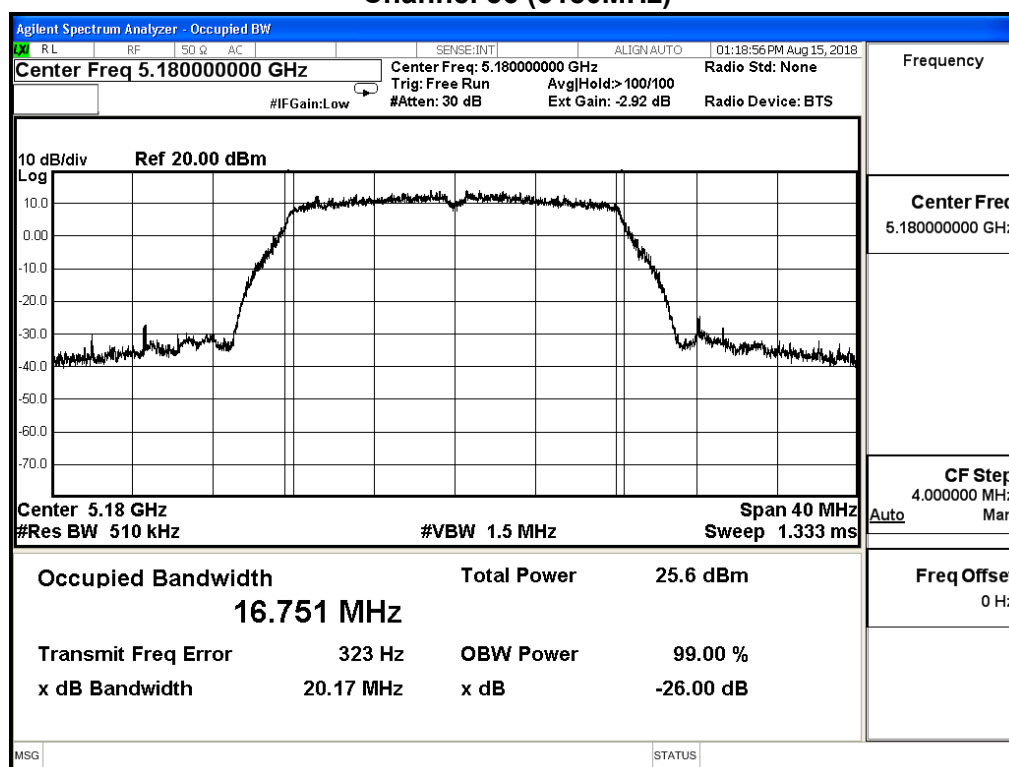


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

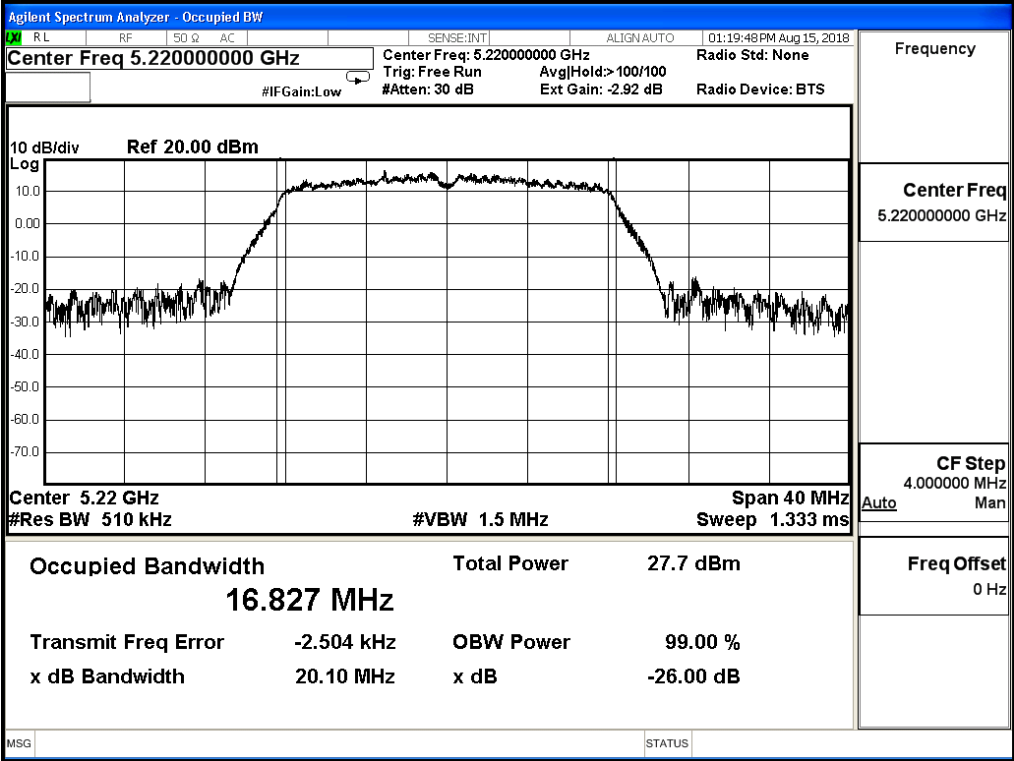
IEEE 802.11a (ANT 3)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.170	16.751	--
44	5220	20.100	16.827	--
48	5240	20.190	16.835	--

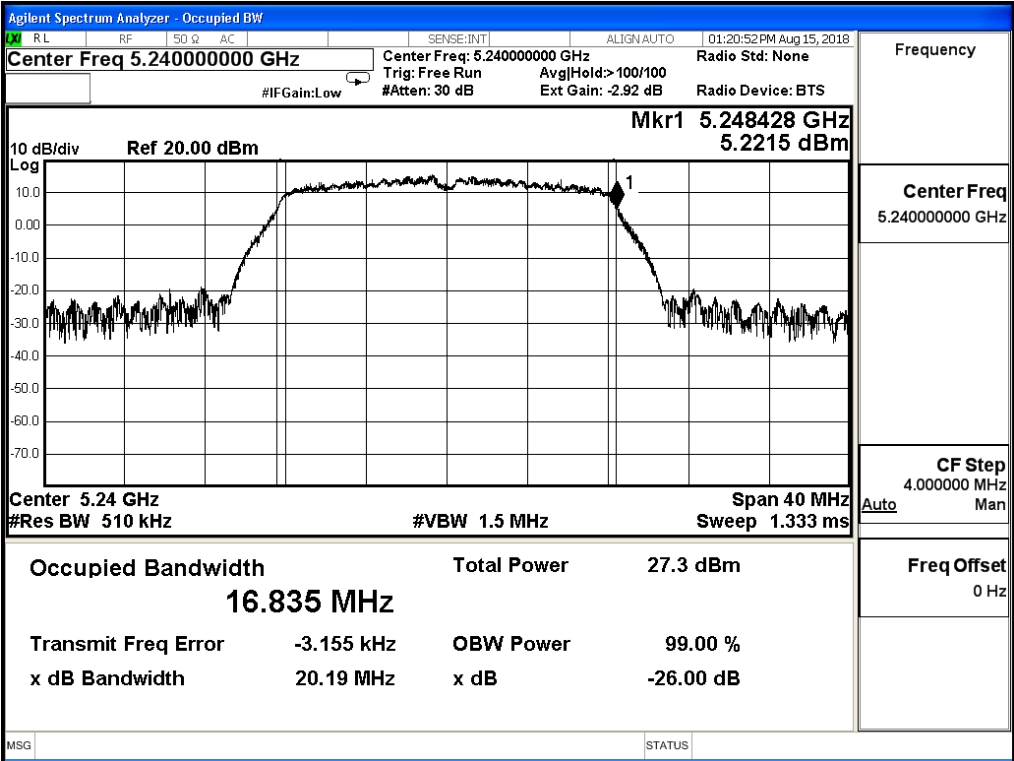
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

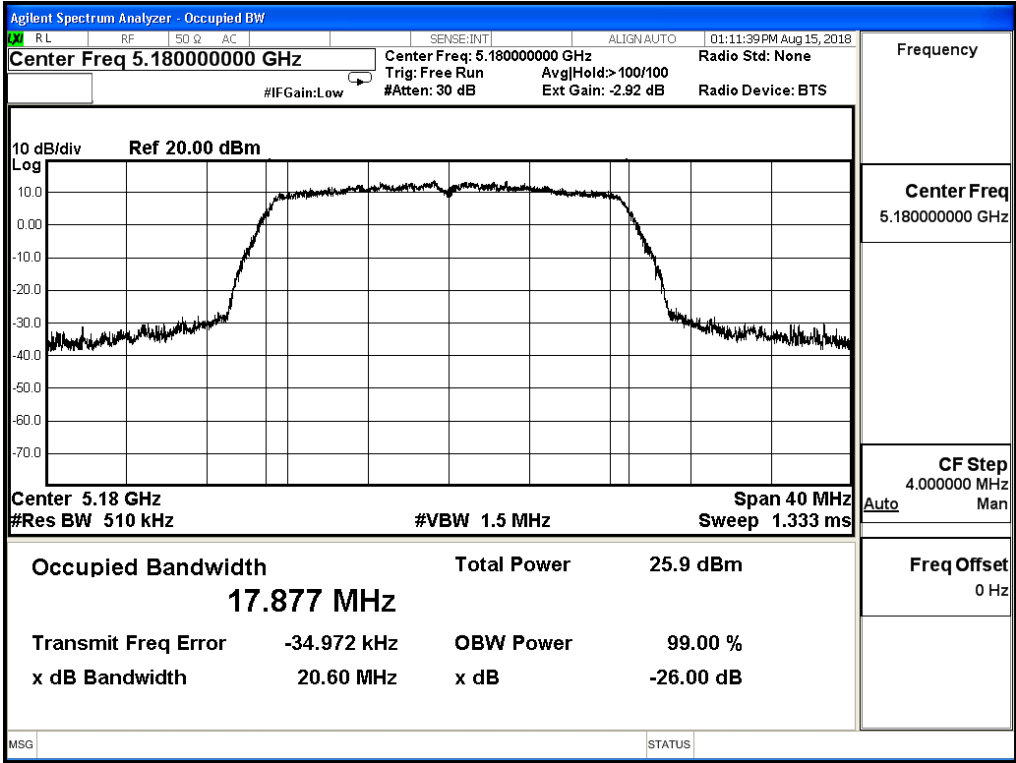


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

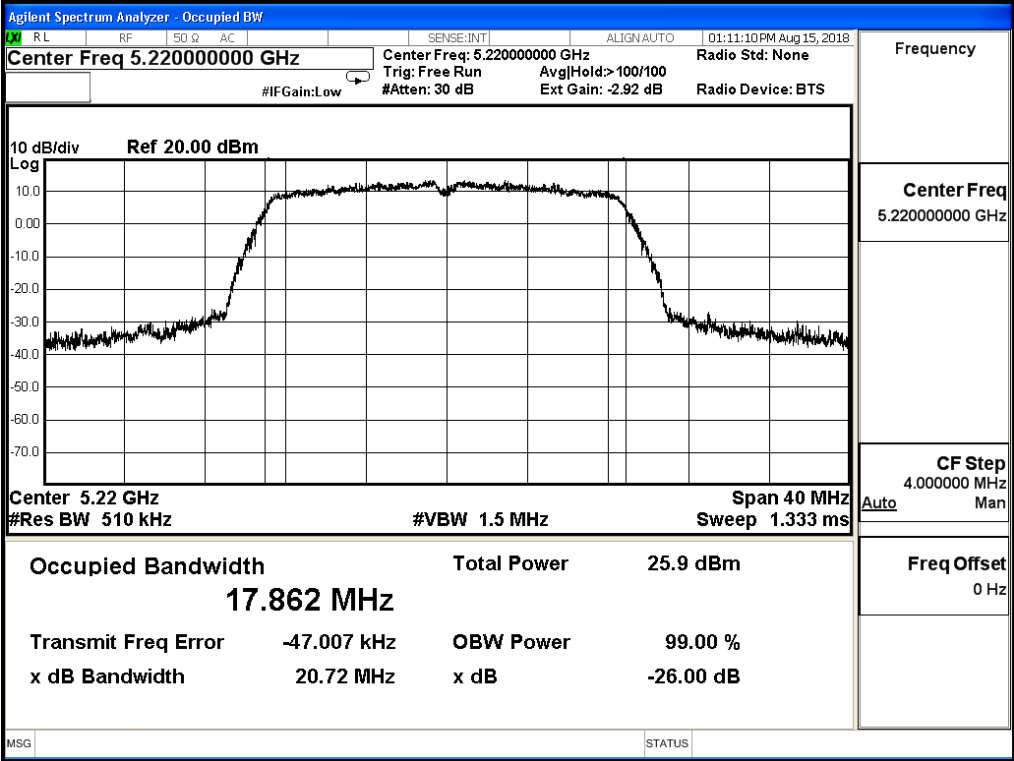
IEEE 802.11n_20M(ANT 0)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.600	17.877	--
44	5220	20.720	17.862	--
48	5240	20.780	17.879	--

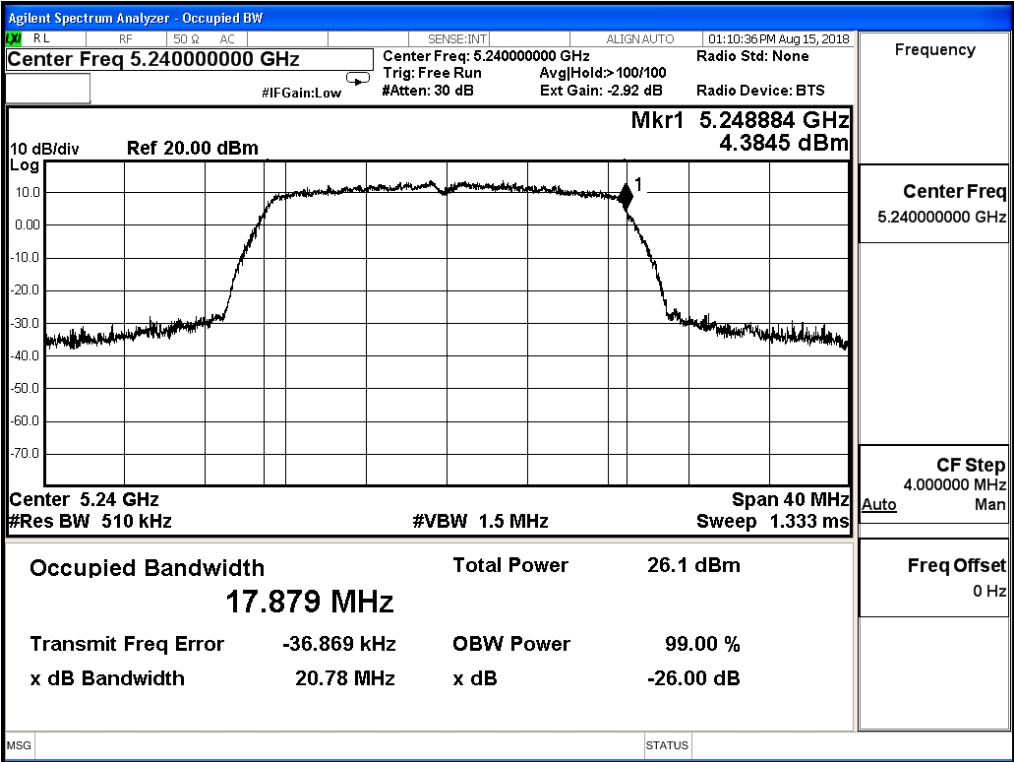
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

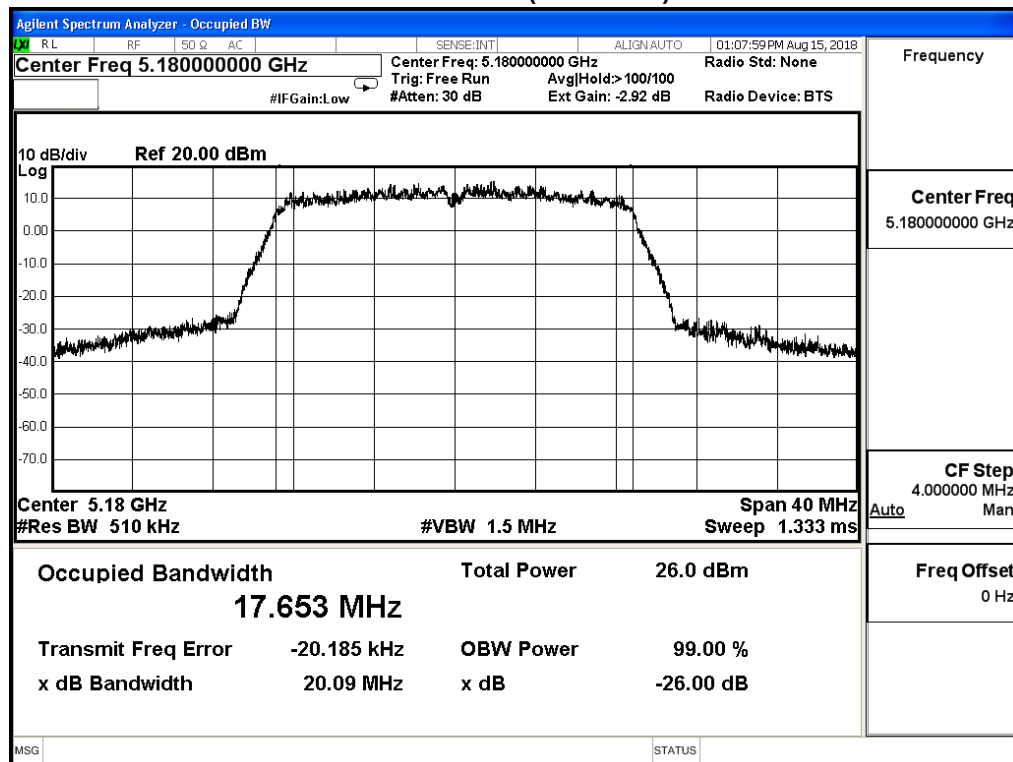


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

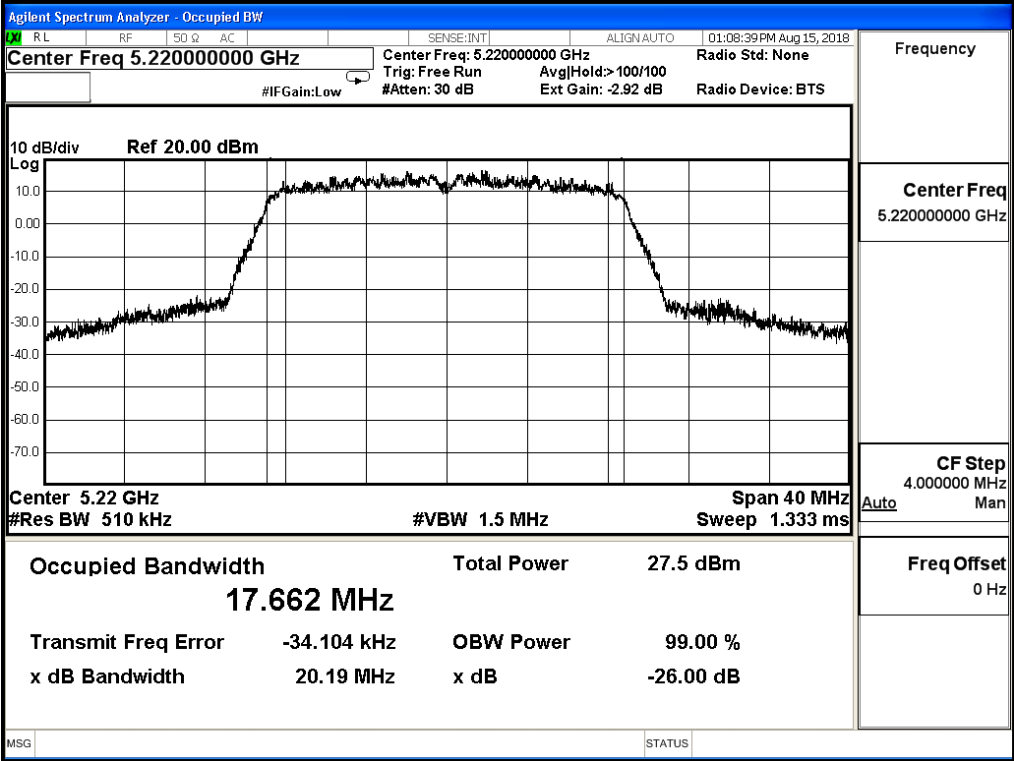
IEEE 802.11n_20M(ANT 1)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.090	17.653	--
44	5220	20.190	17.662	--
48	5240	20.220	17.649	--

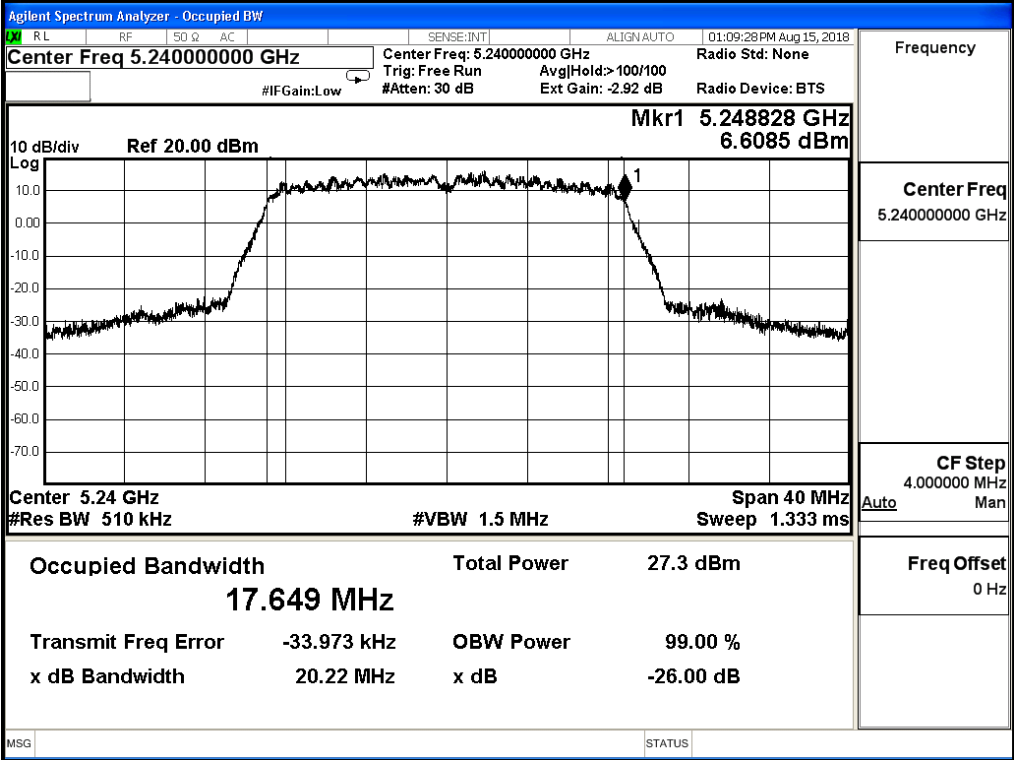
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)

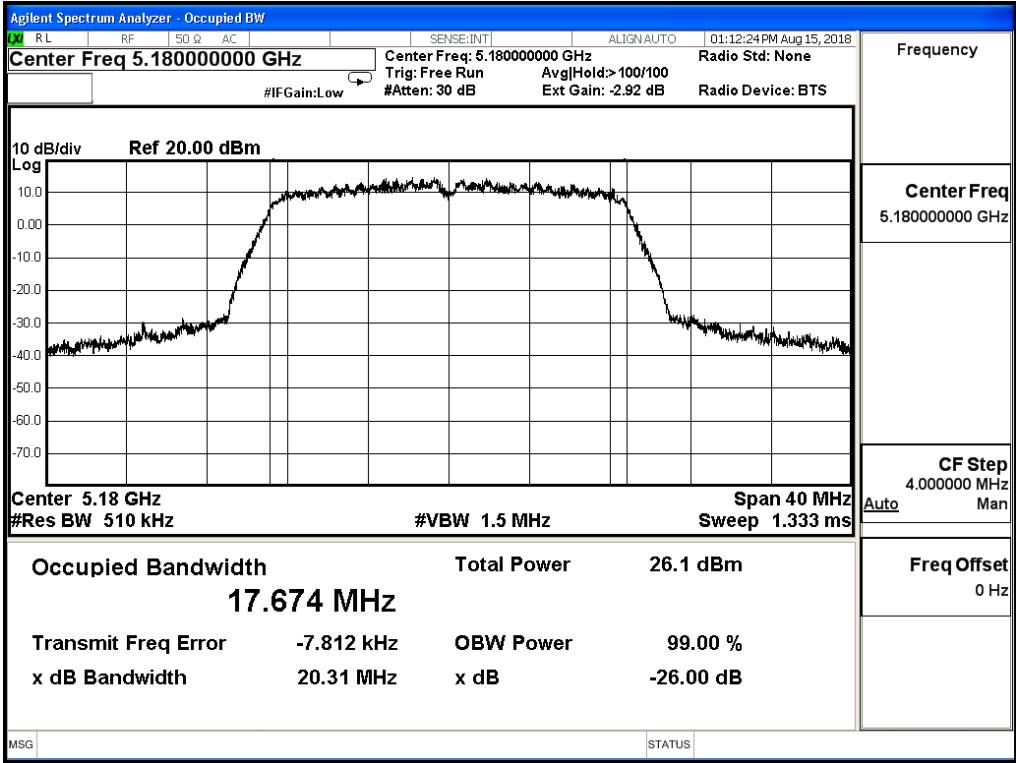


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

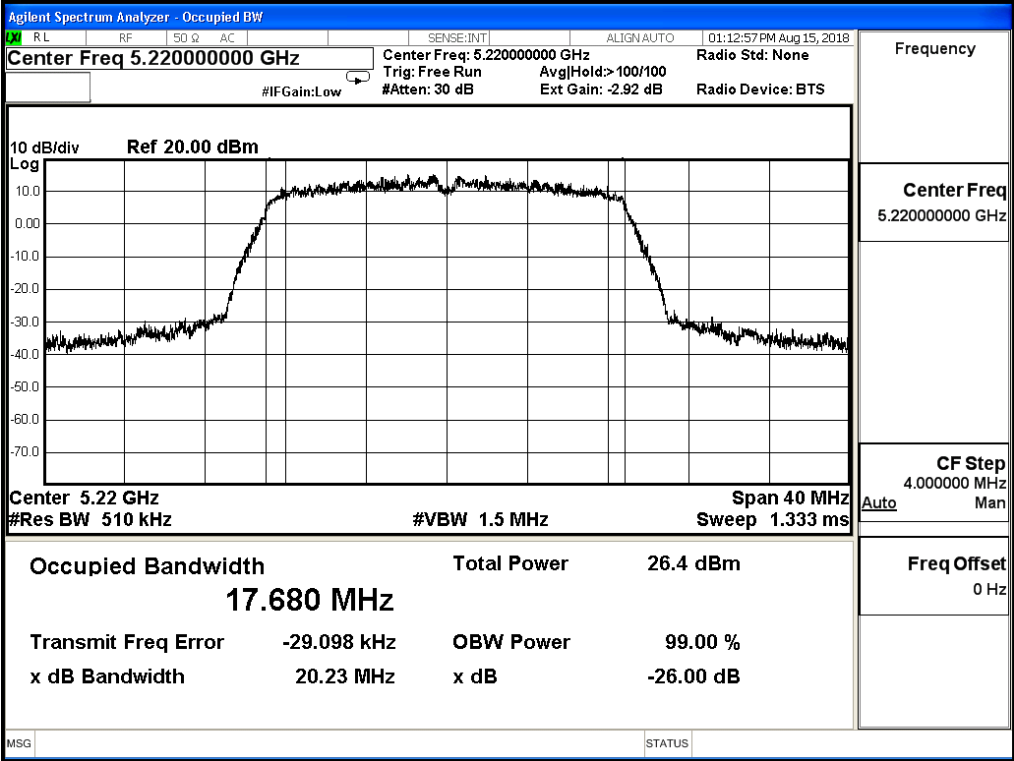
IEEE 802.11n_20M(ANT 2)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.310	17.674	--
44	5220	20.230	17.680	--
48	5240	20.320	17.674	--

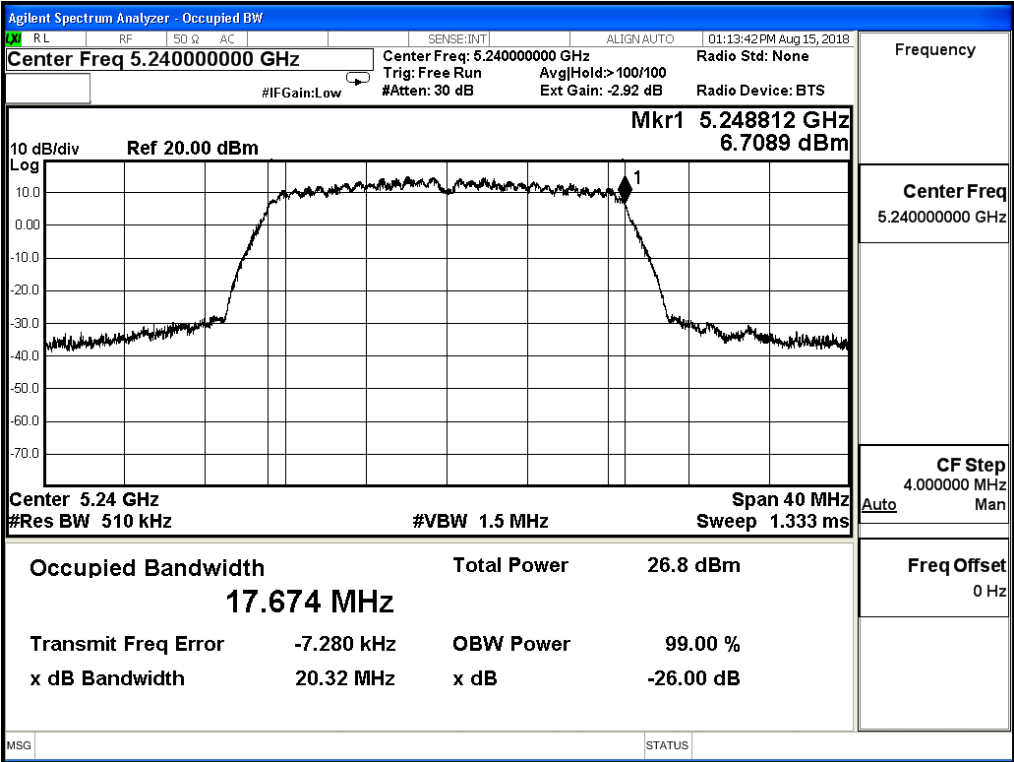
Channel 36 (5180MHz)



Channel 44 (5220MHz)



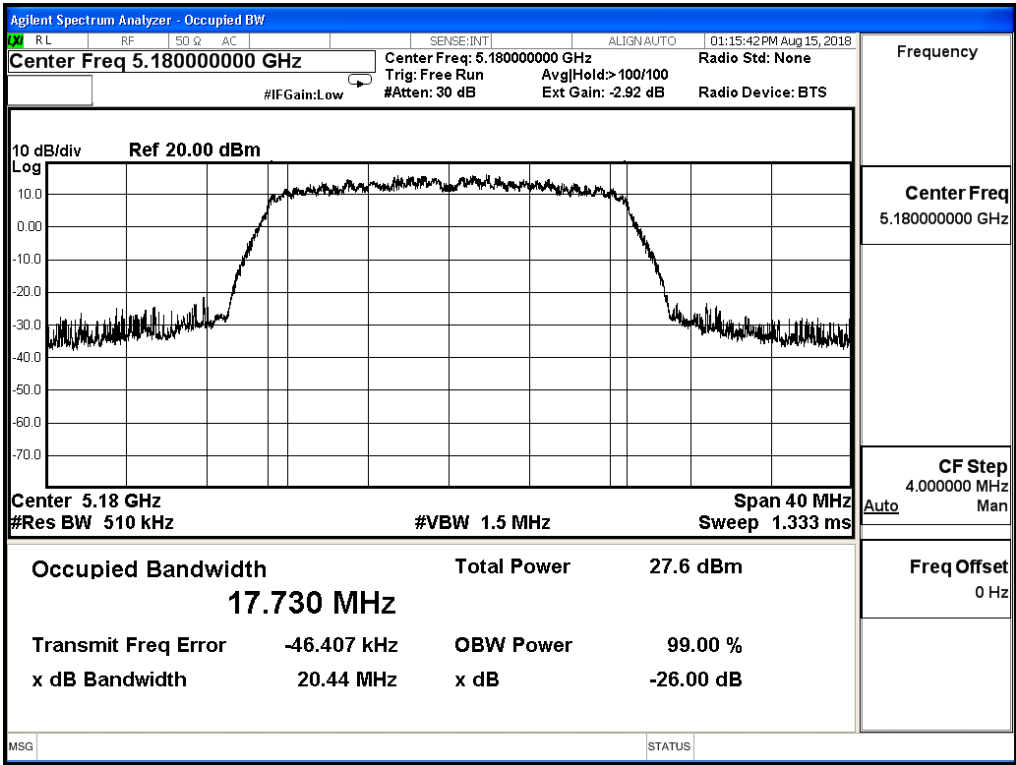
Channel 48 (5240MHz)



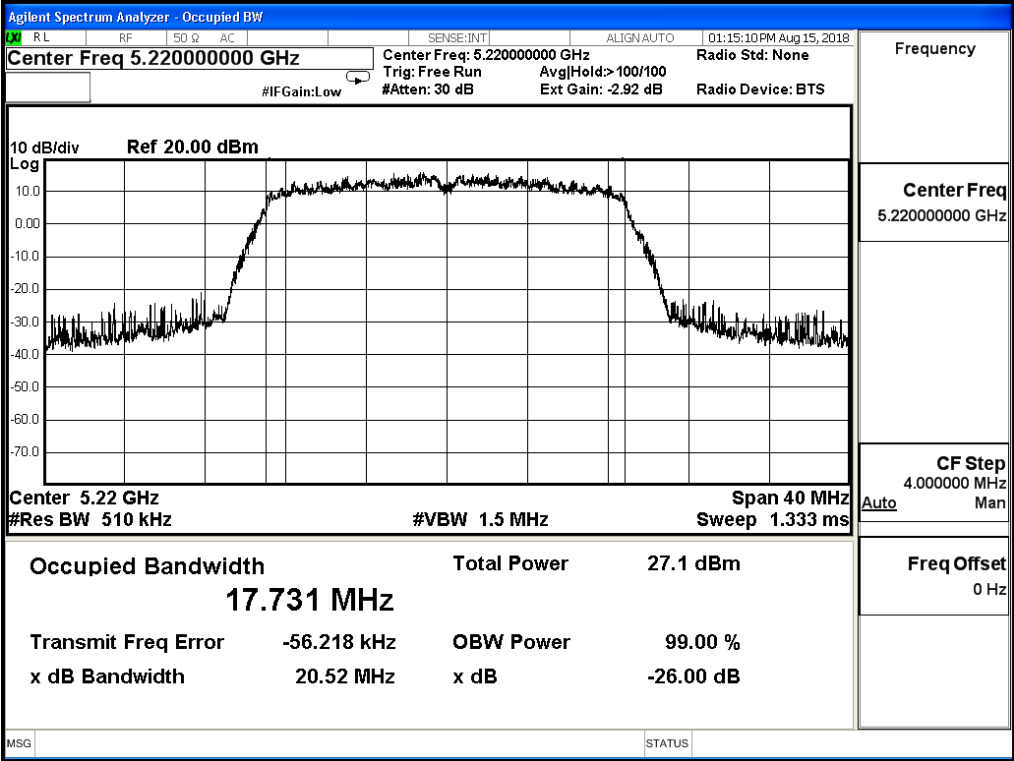
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_20M(ANT 3)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
36	5180	20.440	17.730	--
44	5220	20.520	17.731	--
48	5240	20.360	17.754	--

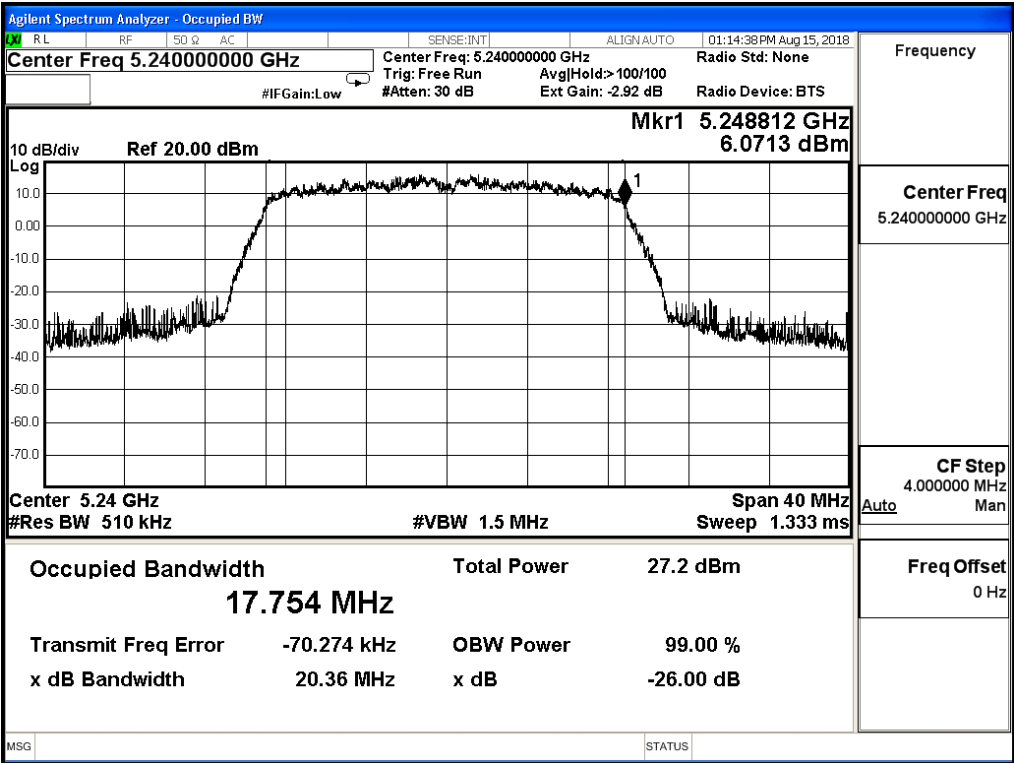
Channel 36 (5180MHz)



Channel 44 (5220MHz)



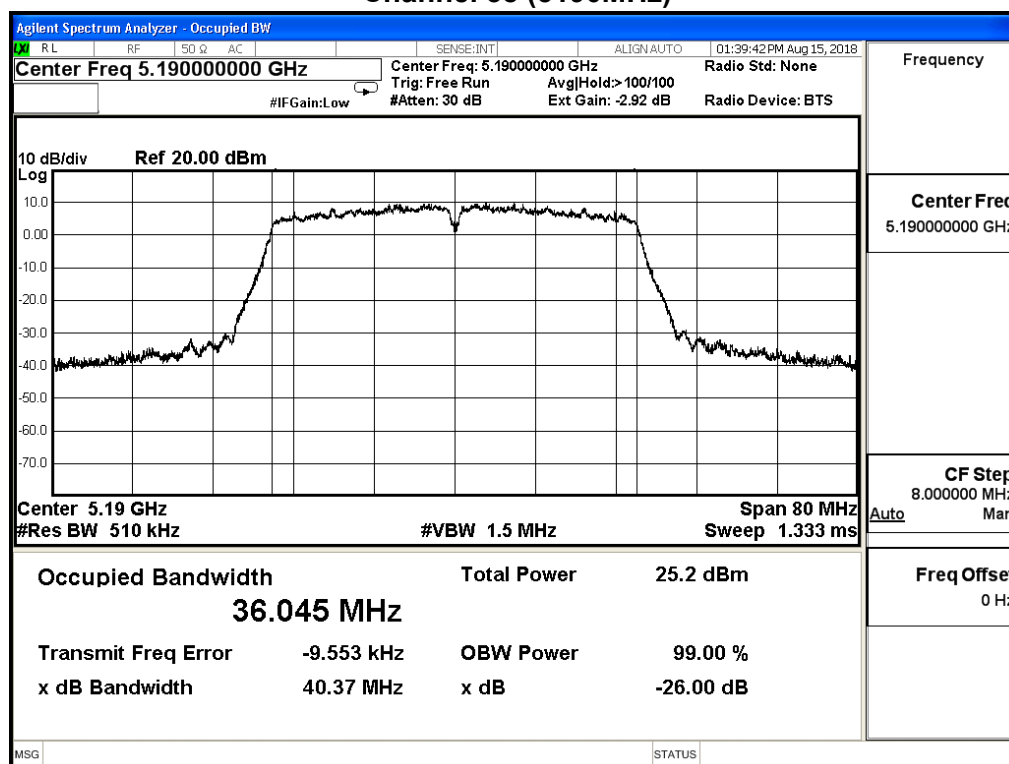
Channel 48 (5240MHz)



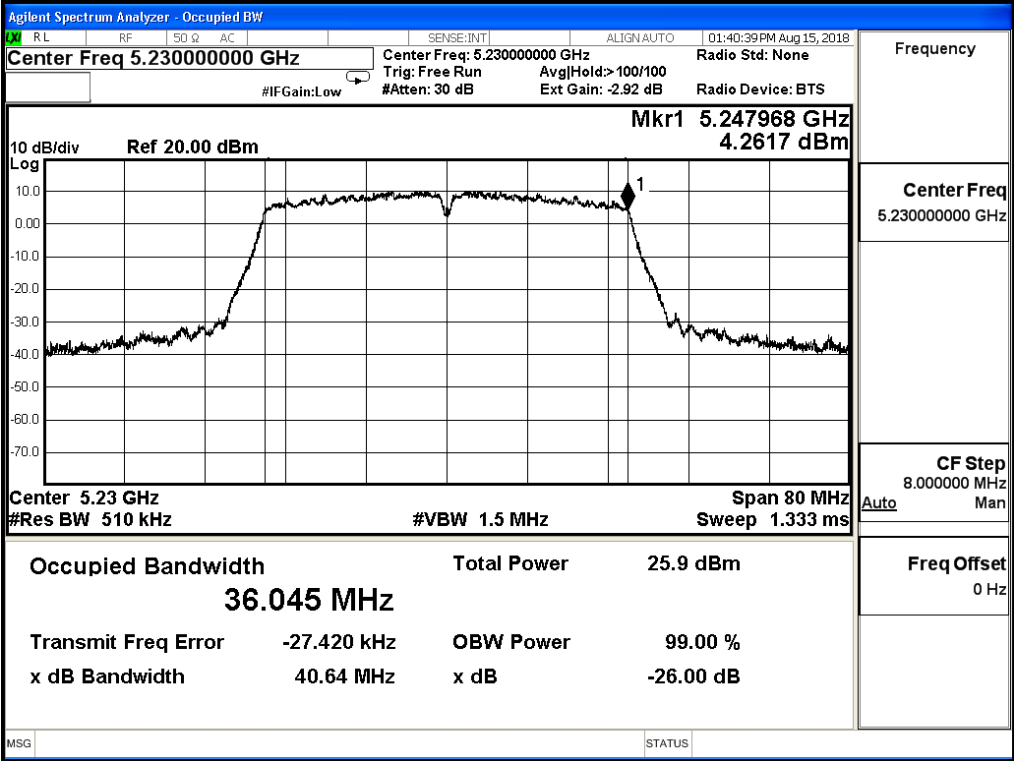
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M(ANT 0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	40.370	36.045	--
46	5230	40.640	36.045	--

Channel 38 (5190MHz)



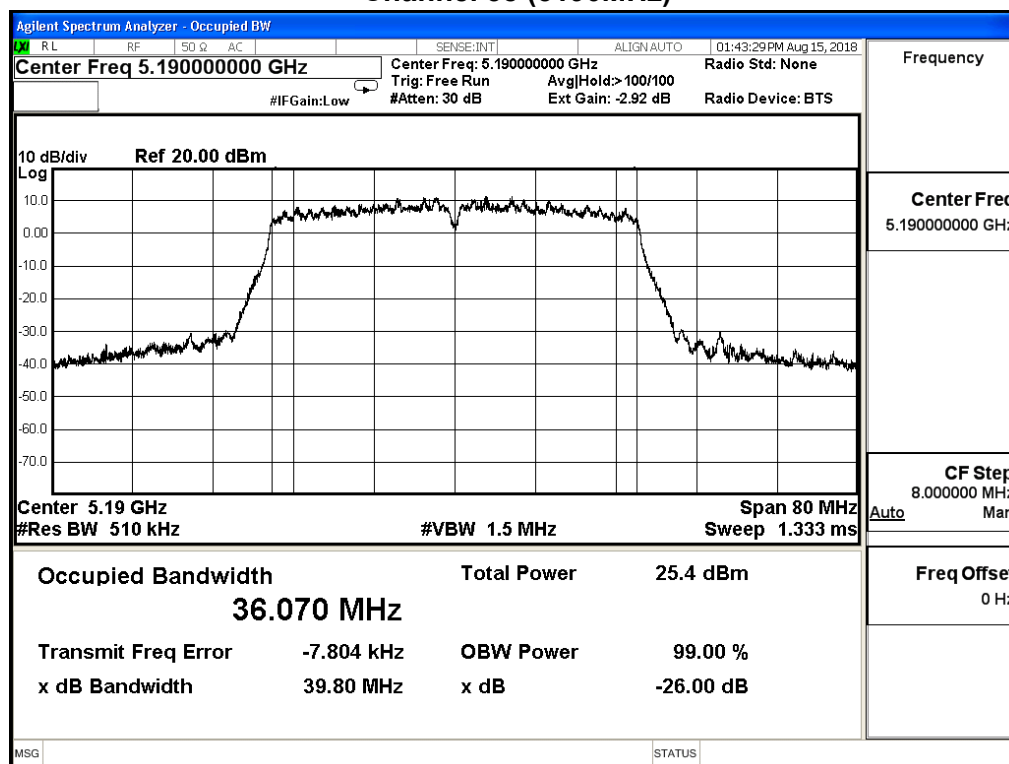
Channel 46 (5230MHz)



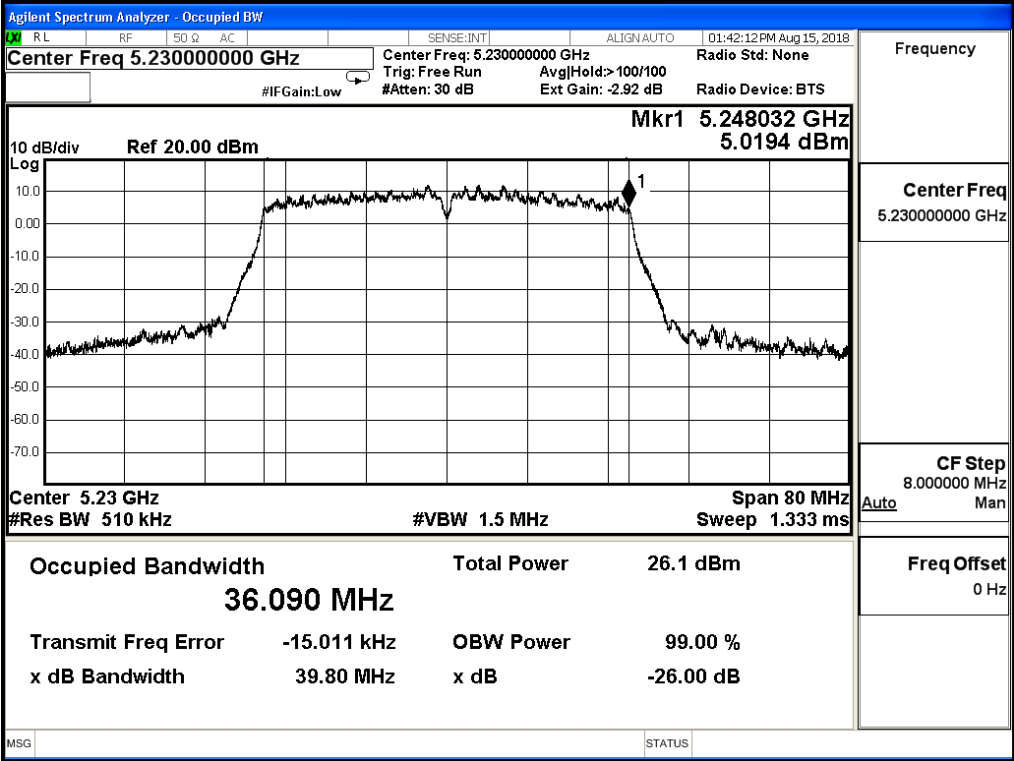
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M(ANT 1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	39.800	36.070	--
46	5230	39.800	36.090	--

Channel 38 (5190MHz)



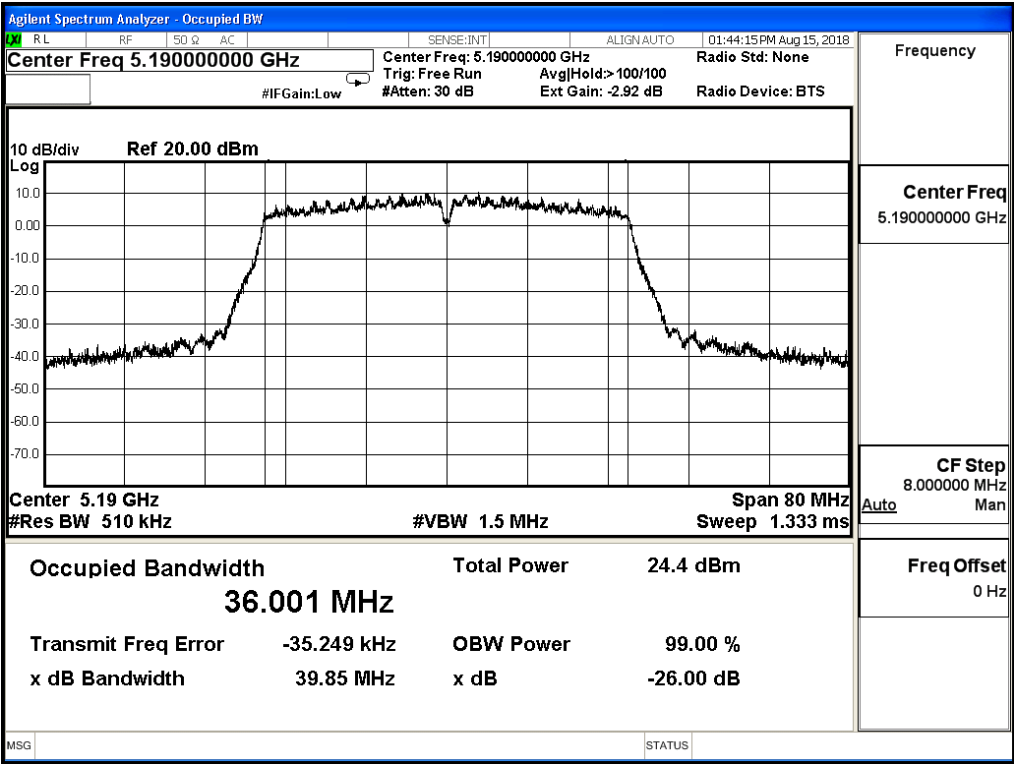
Channel 46 (5230MHz)



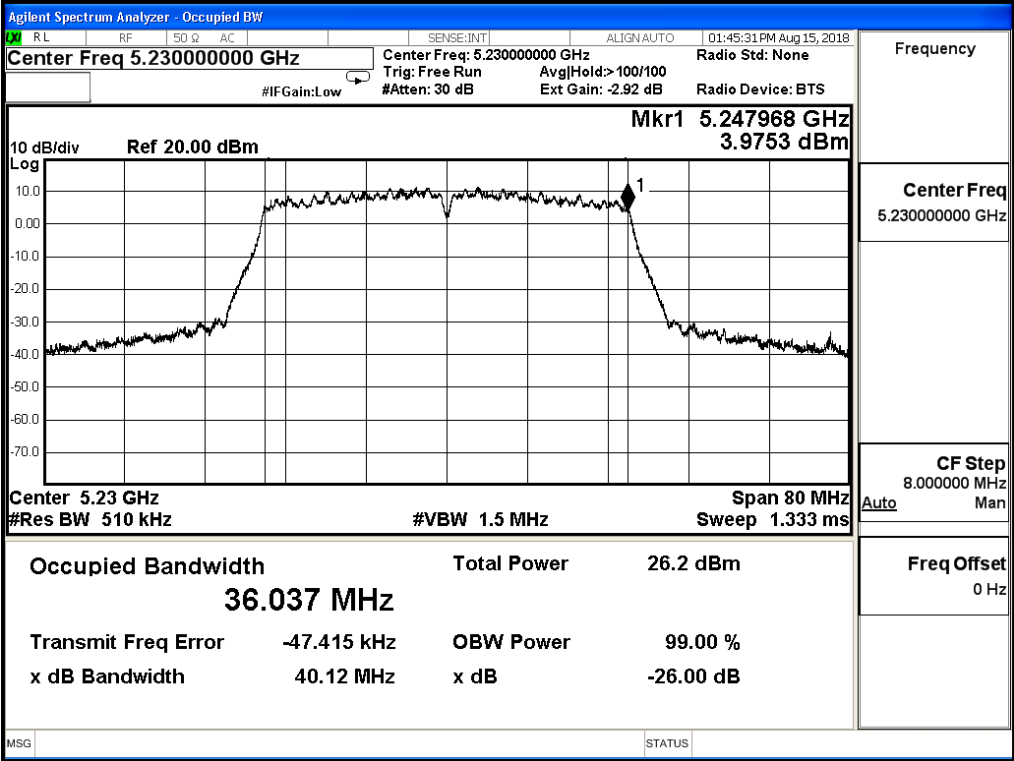
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M(ANT 2)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	39.850	36.001	--
46	5230	40.120	36.037	--

Channel 38 (5190MHz)



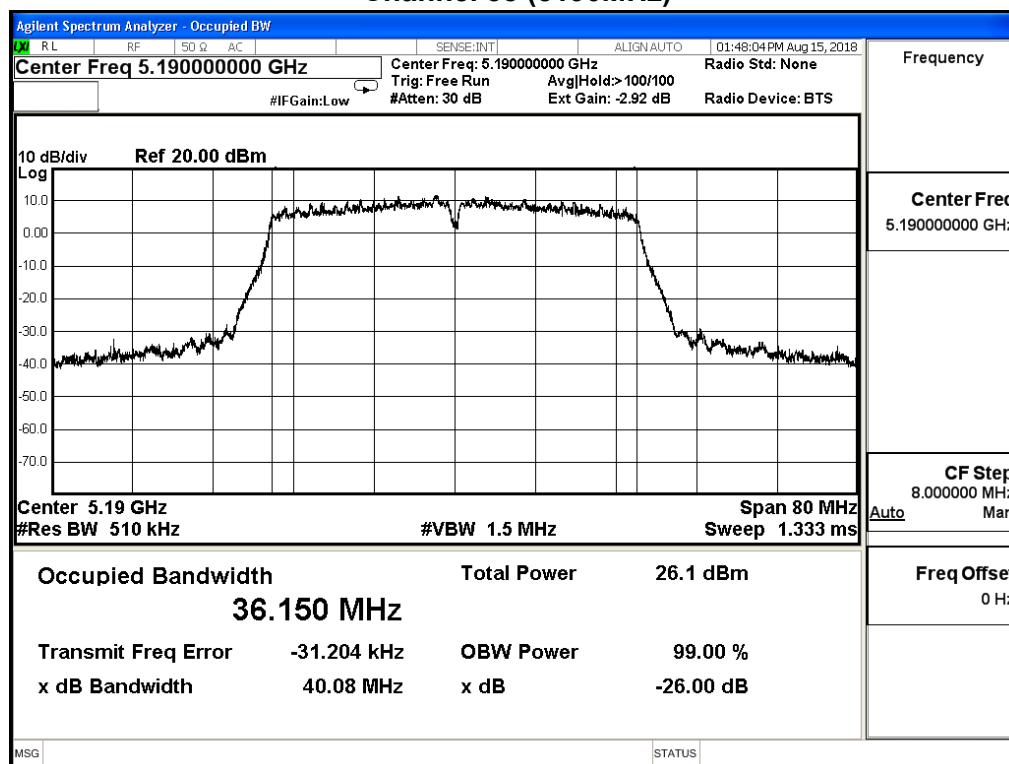
Channel 46 (5230MHz)



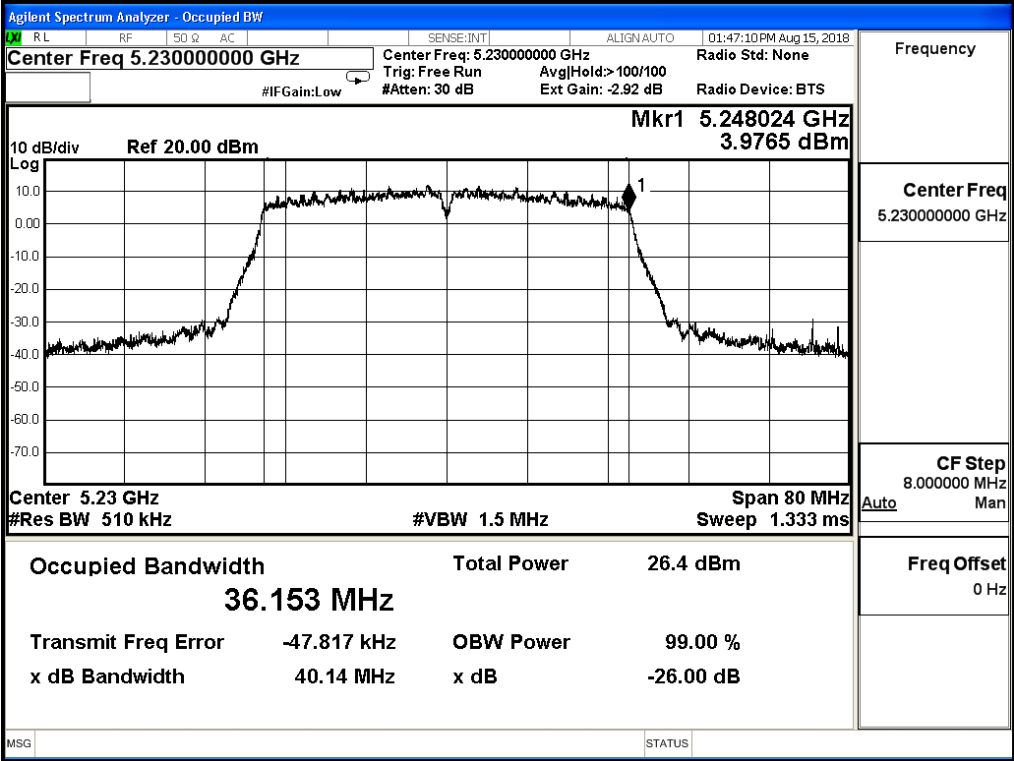
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M(ANT 3)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
38	5190	40.080	36.150	--
46	5230	40.140	36.153	--

Channel 38 (5190MHz)



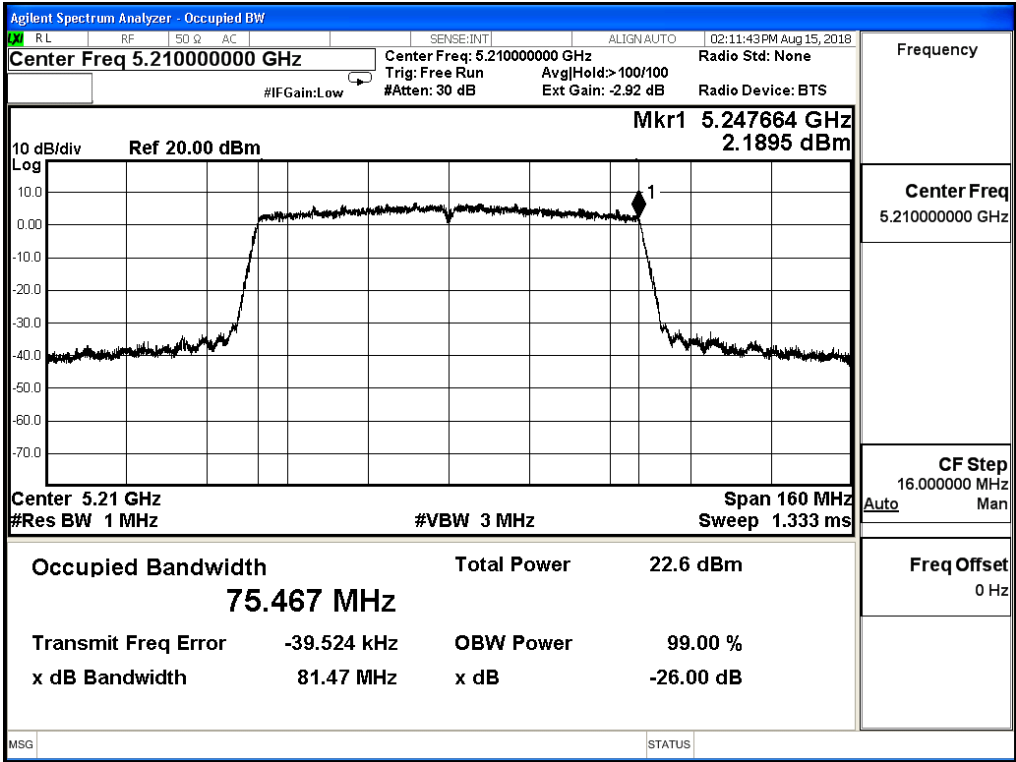
Channel 46 (5230MHz)



產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M(ANT 0)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	81.470	75.647	--

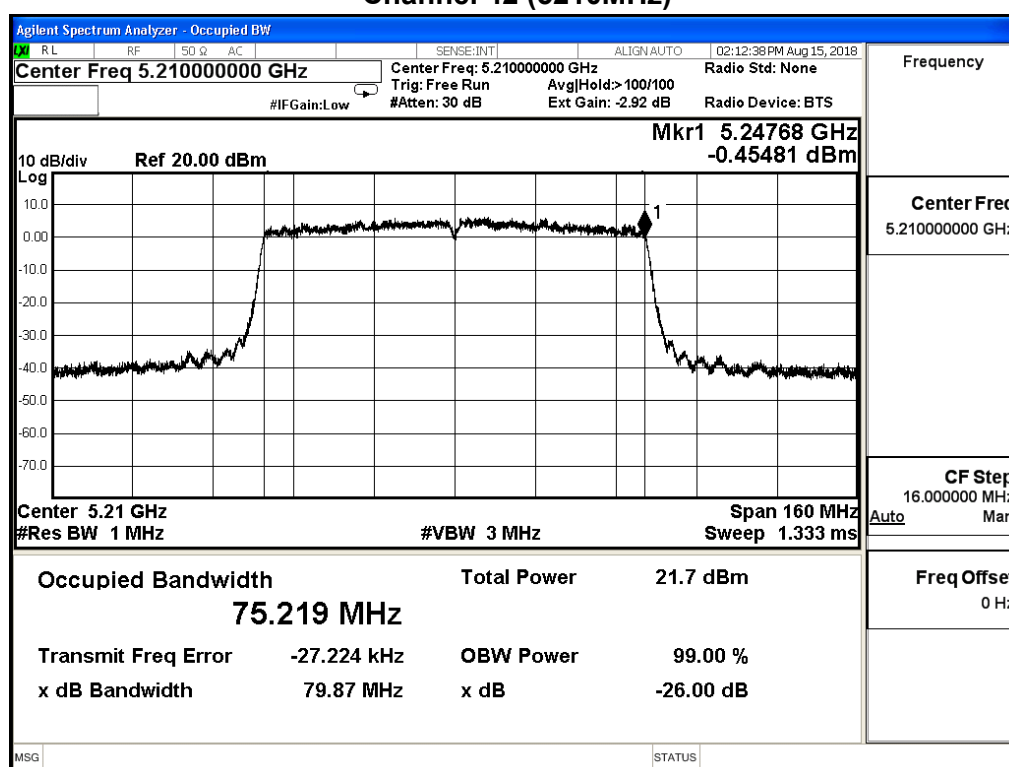
Channel 42 (5210MHz)



產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

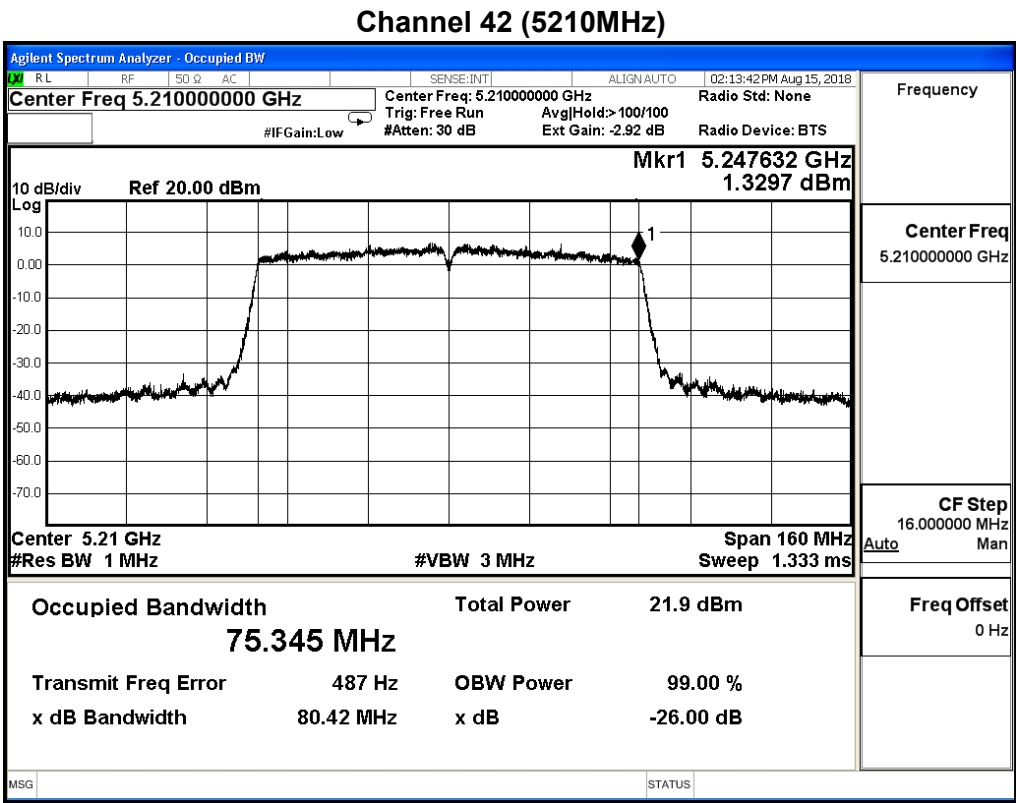
IEEE 802.11ac_80M(ANT 1)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	79.870	75.219	--

Channel 42 (5210MHz)



產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M(ANT 2)				
Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	80.420	75.345	--

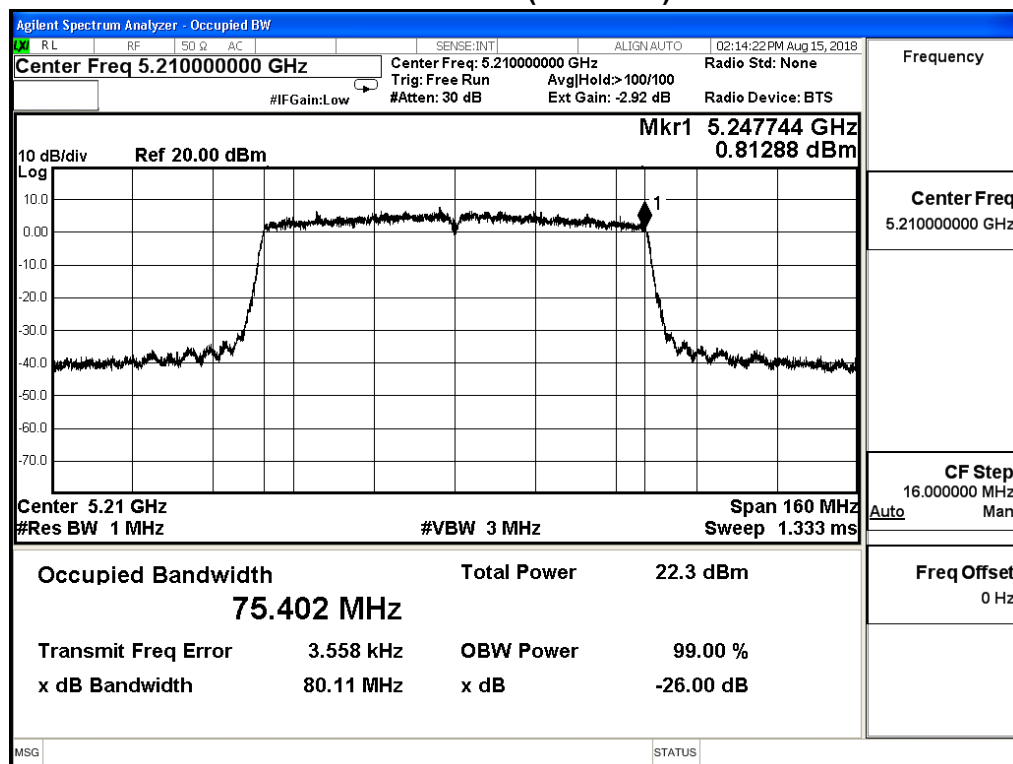


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(26dB & 99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

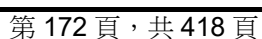
IEEE 802.11ac_80M(ANT 3)

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
42	5210	80.110	75.402	--

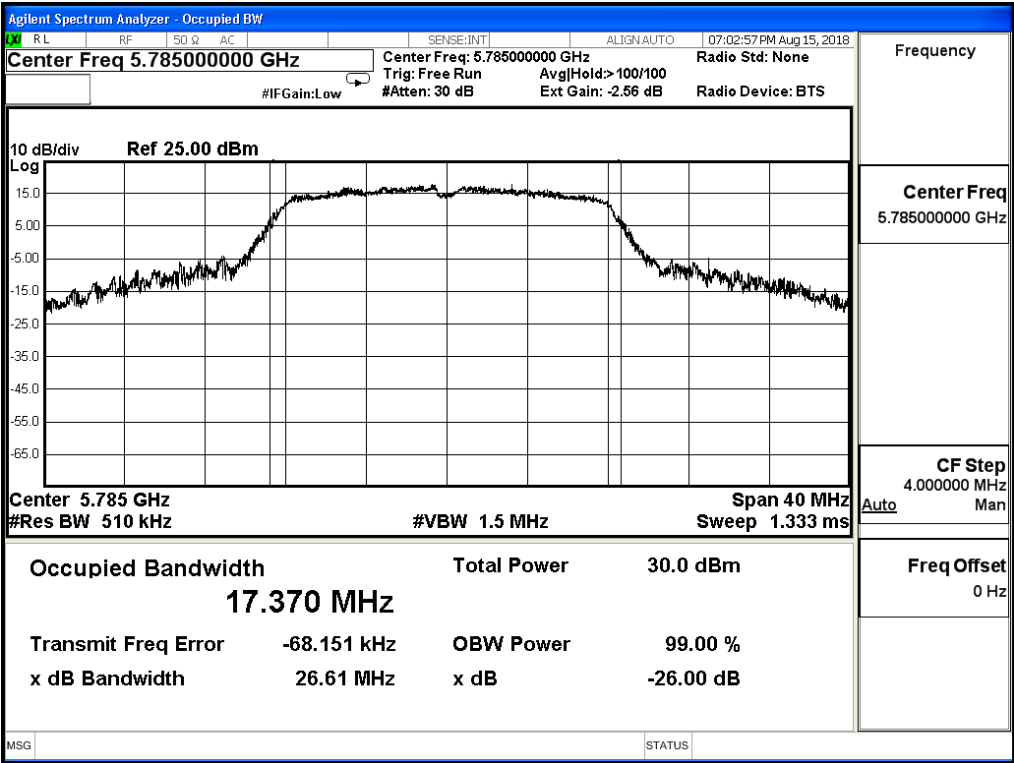
Channel 42 (5210MHz)



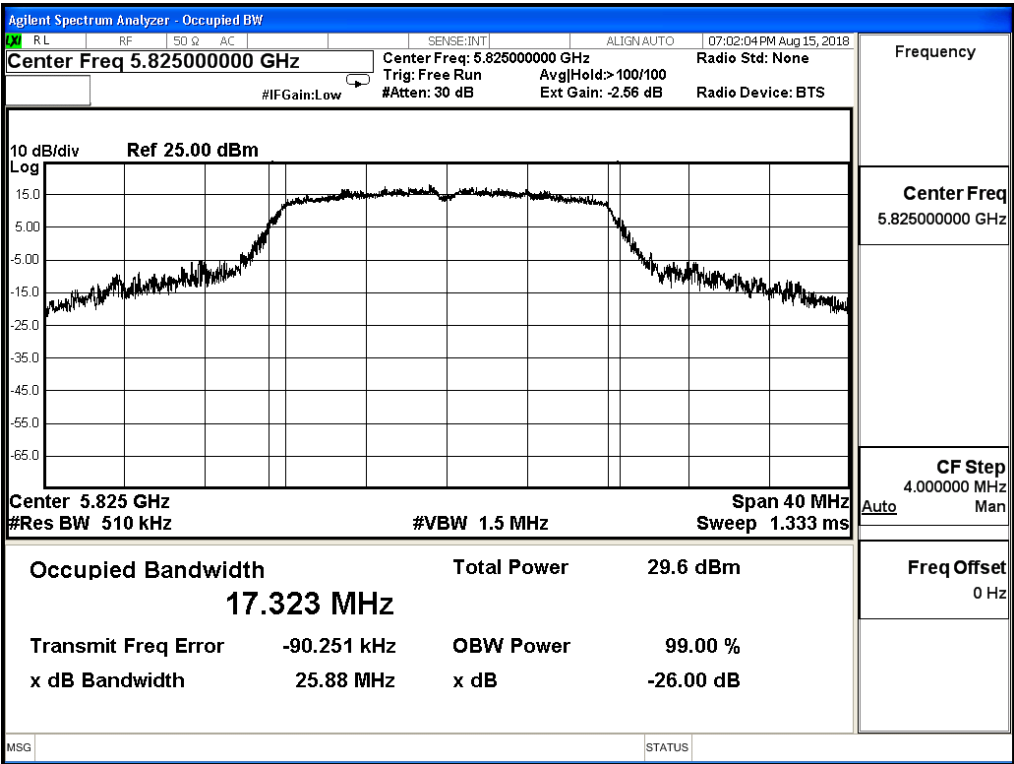
IEEE 802.11a (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	17.255	---
157	5785	17.370	---
165	5825	17.323	---



Channel 157 (5785MHz)



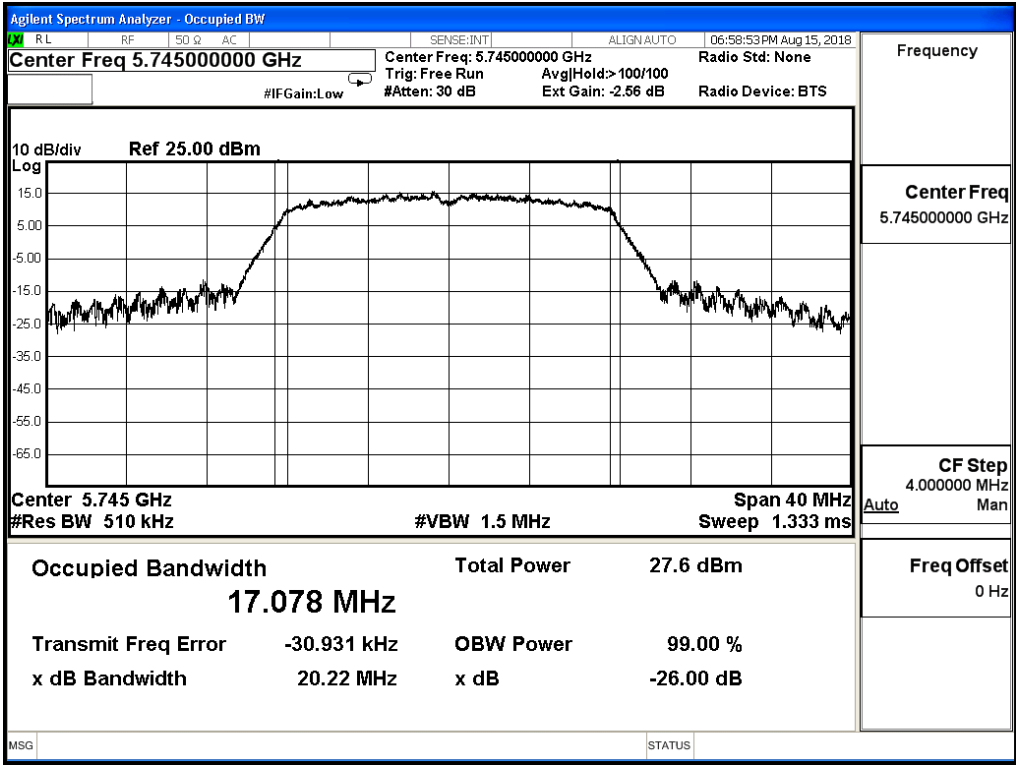
Channel 165 (5825MHz)



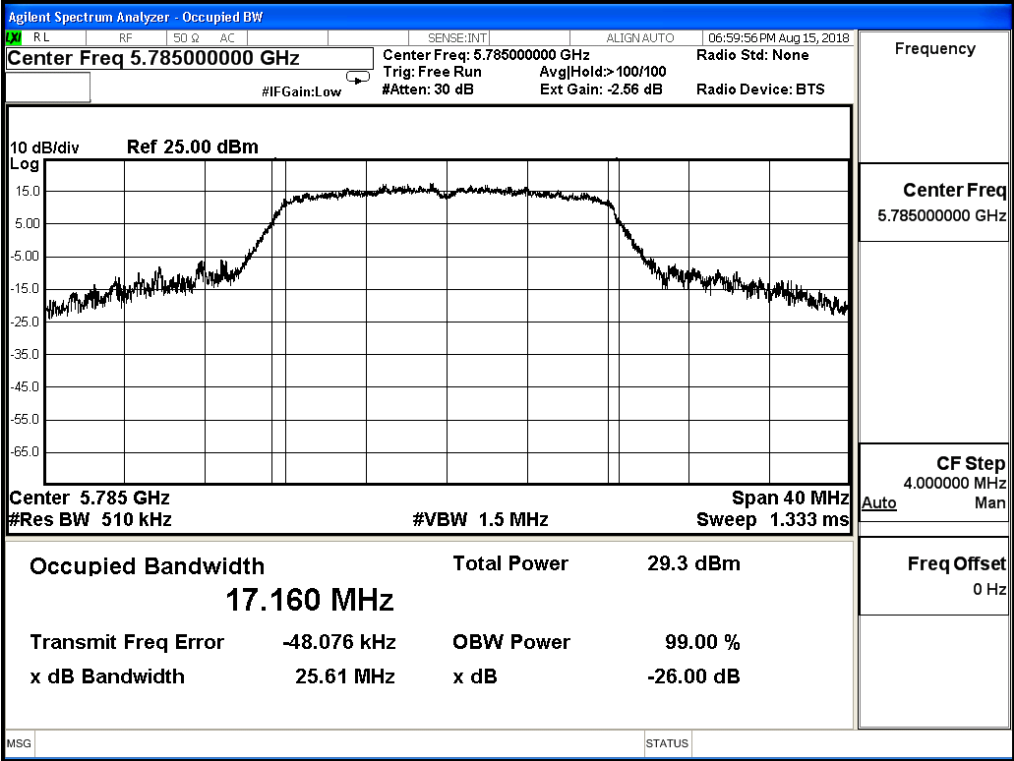
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	17.078	---
157	5785	17.160	---
165	5825	17.403	---

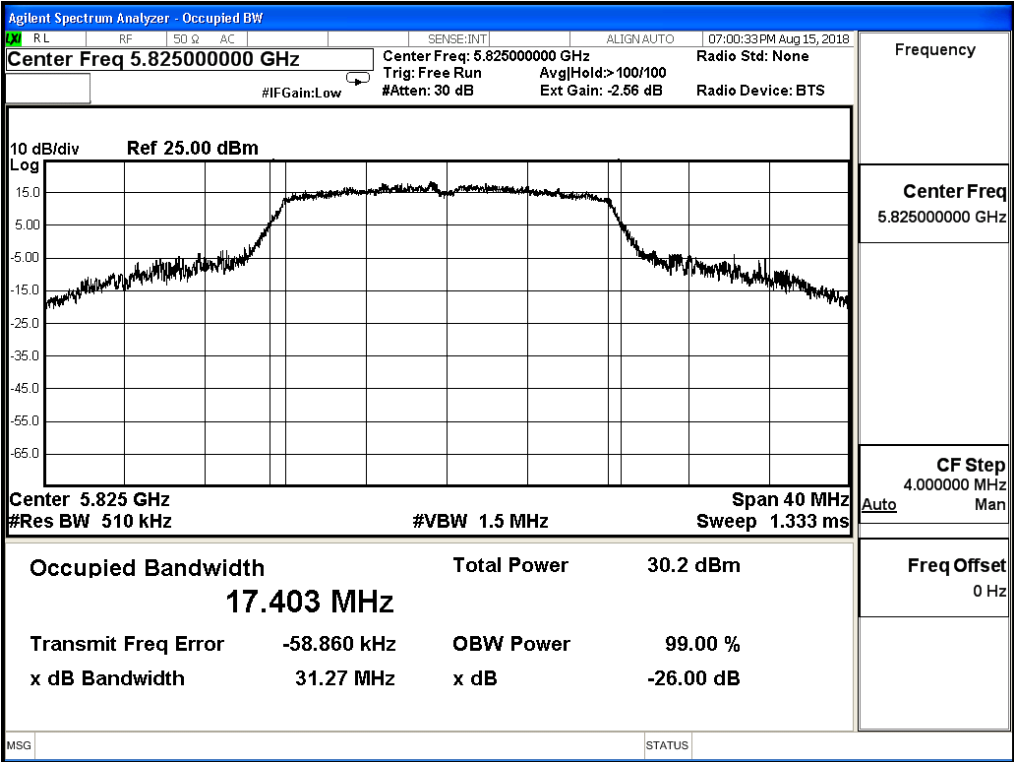
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

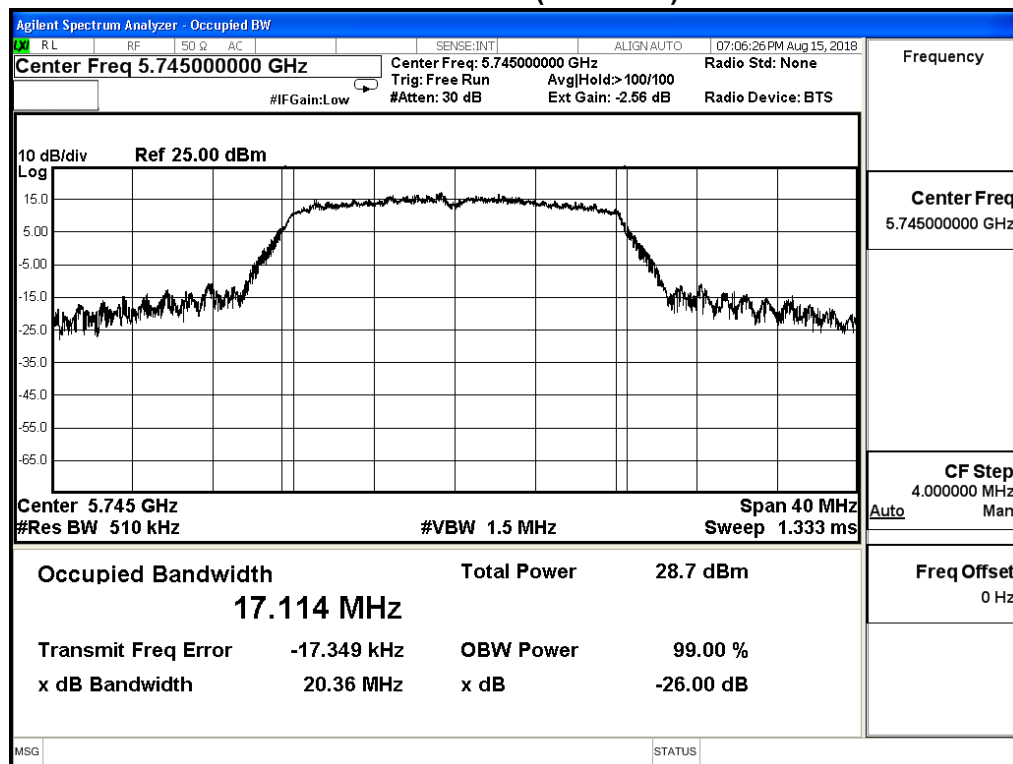


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

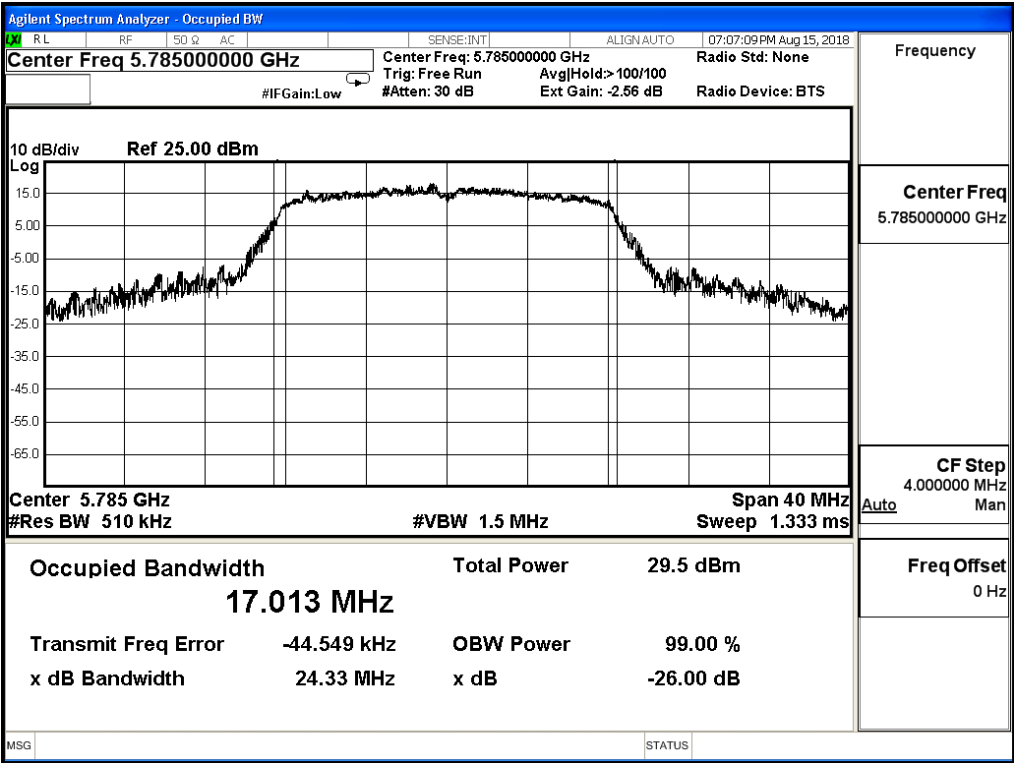
IEEE 802.11a (ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	17.114	---
157	5785	17.013	---
165	5825	17.210	---

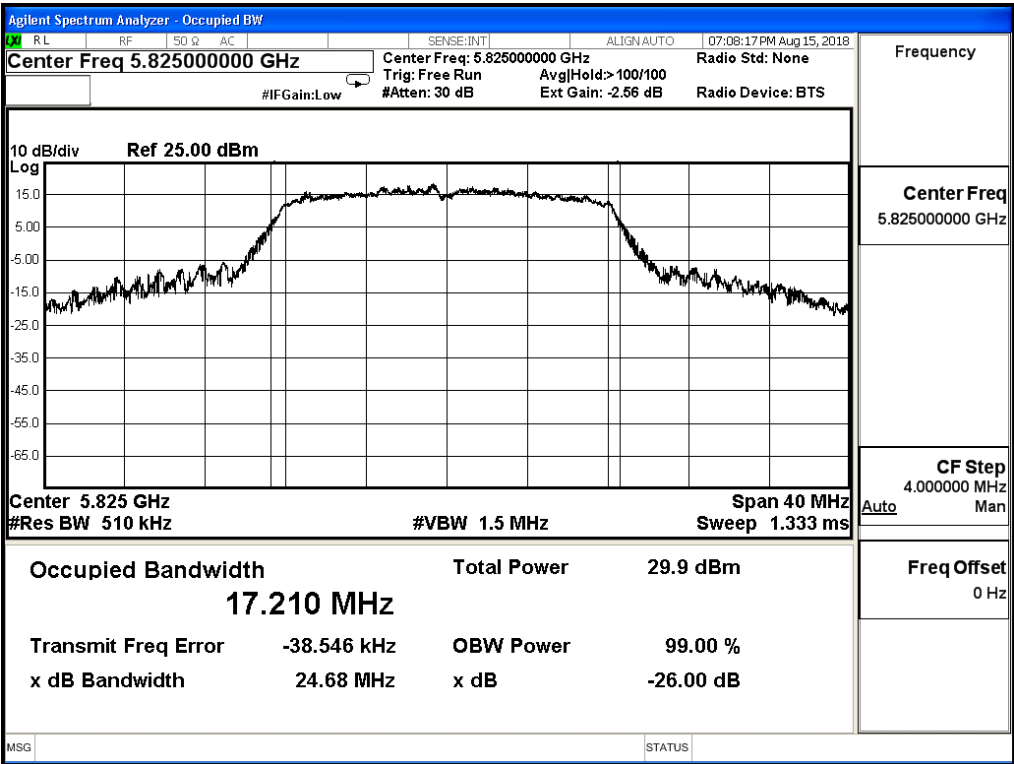
Channel 149 (5745MHz)



Channel 157 (5785MHz)



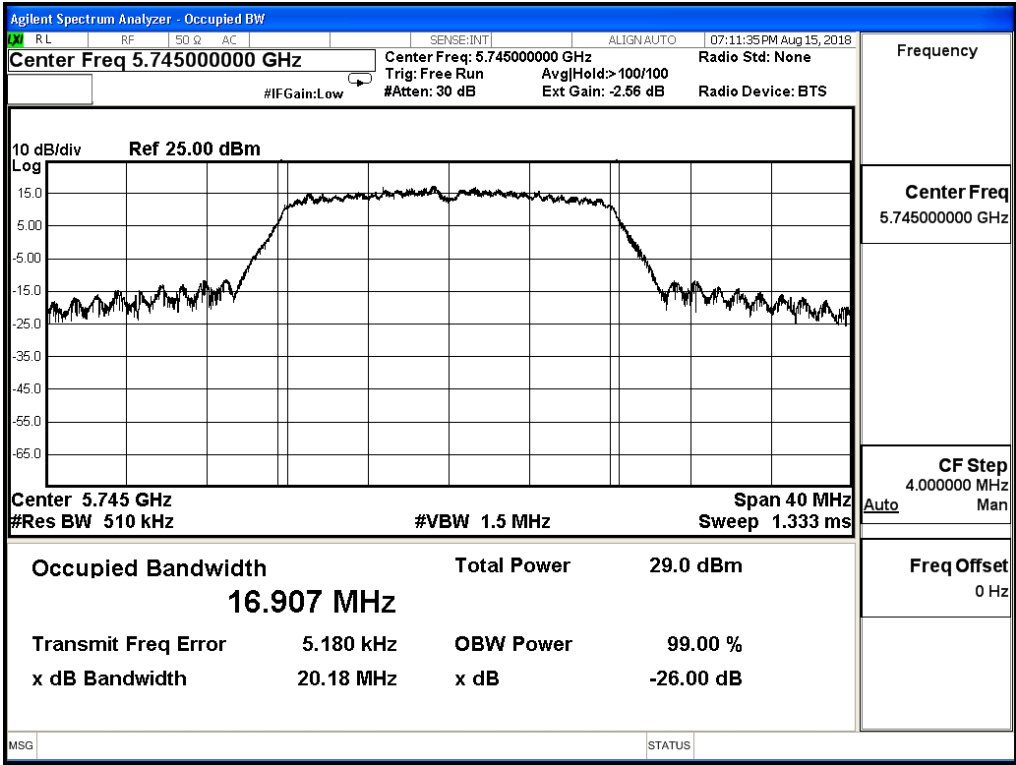
Channel 165 (5825MHz)



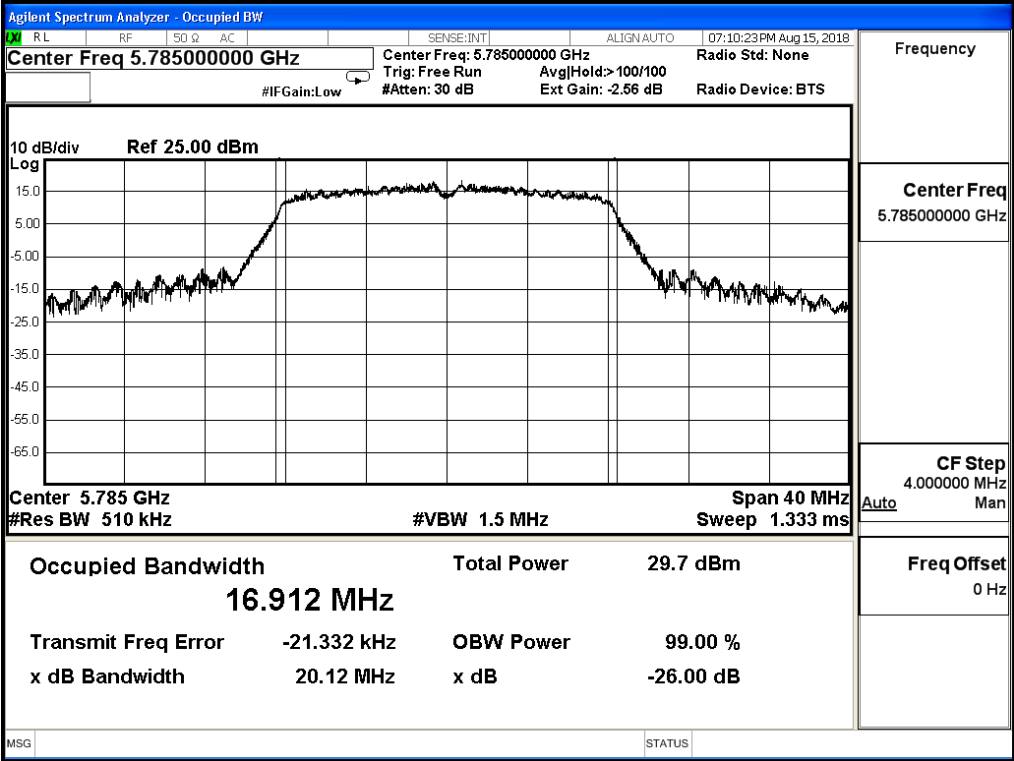
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a (ANT 3)			
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	16.907	---
157	5785	16.912	---
165	5825	17.004	---

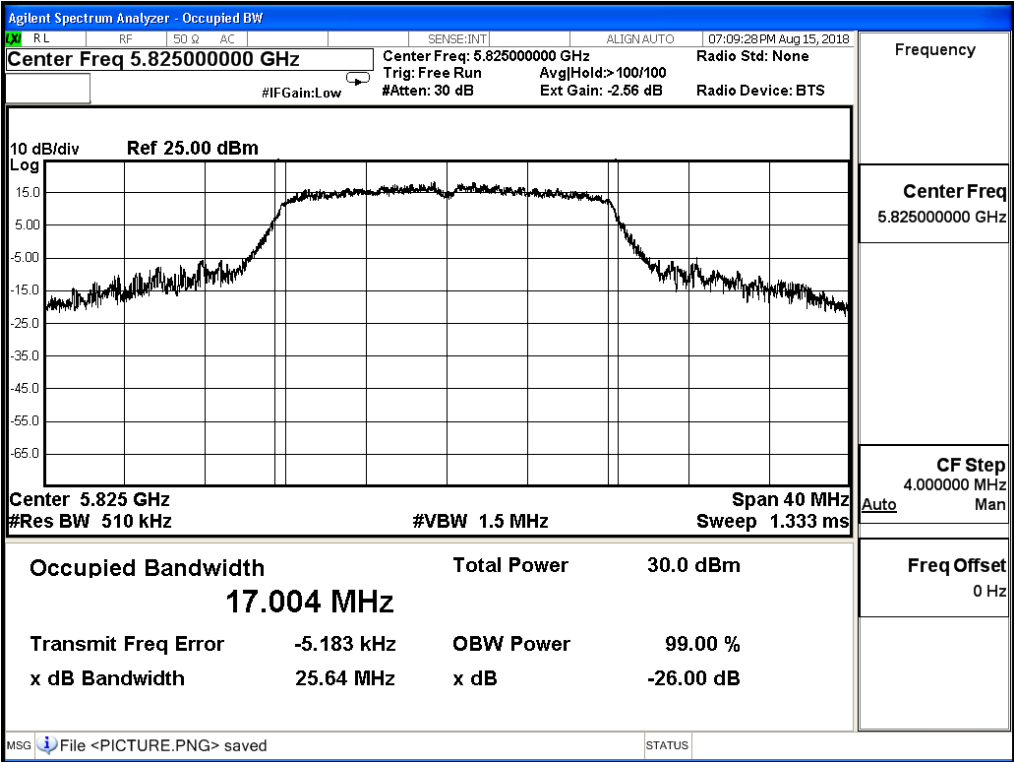
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

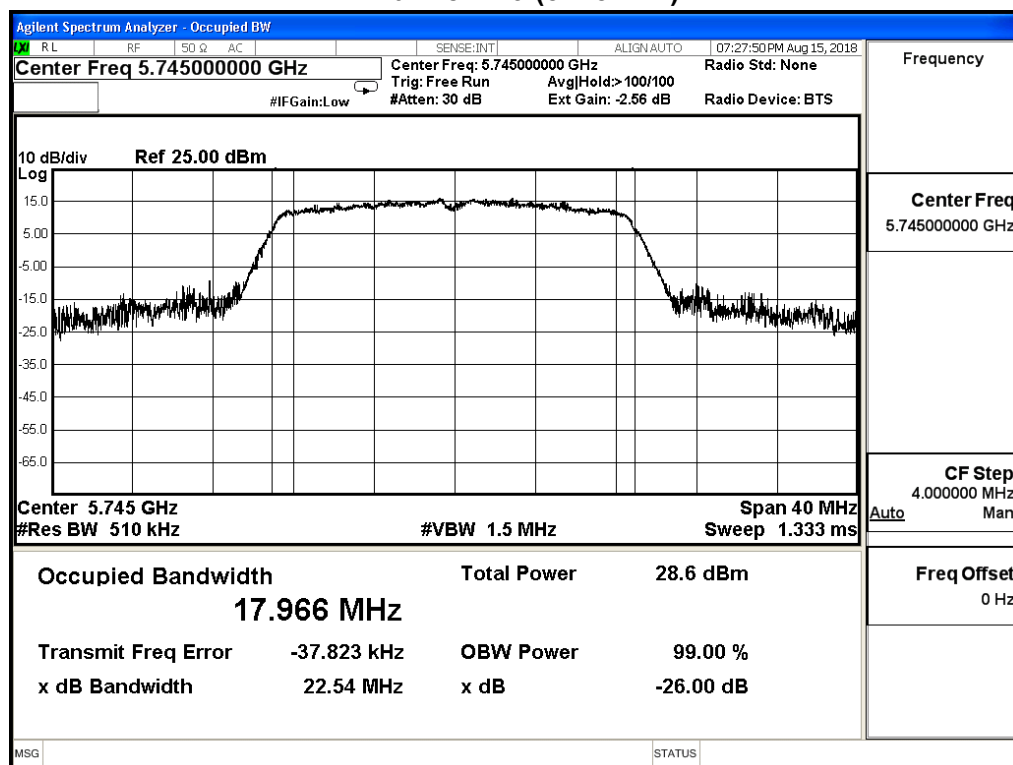


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

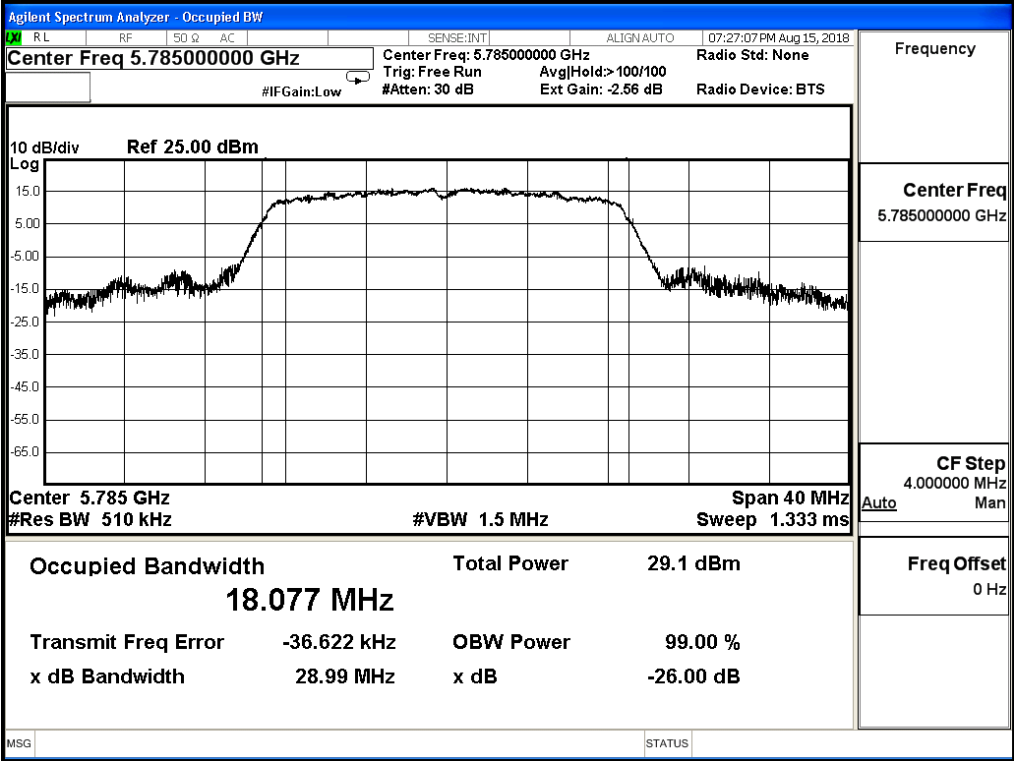
IEEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	17.966	---
157	5785	18.077	---
165	5825	18.056	---

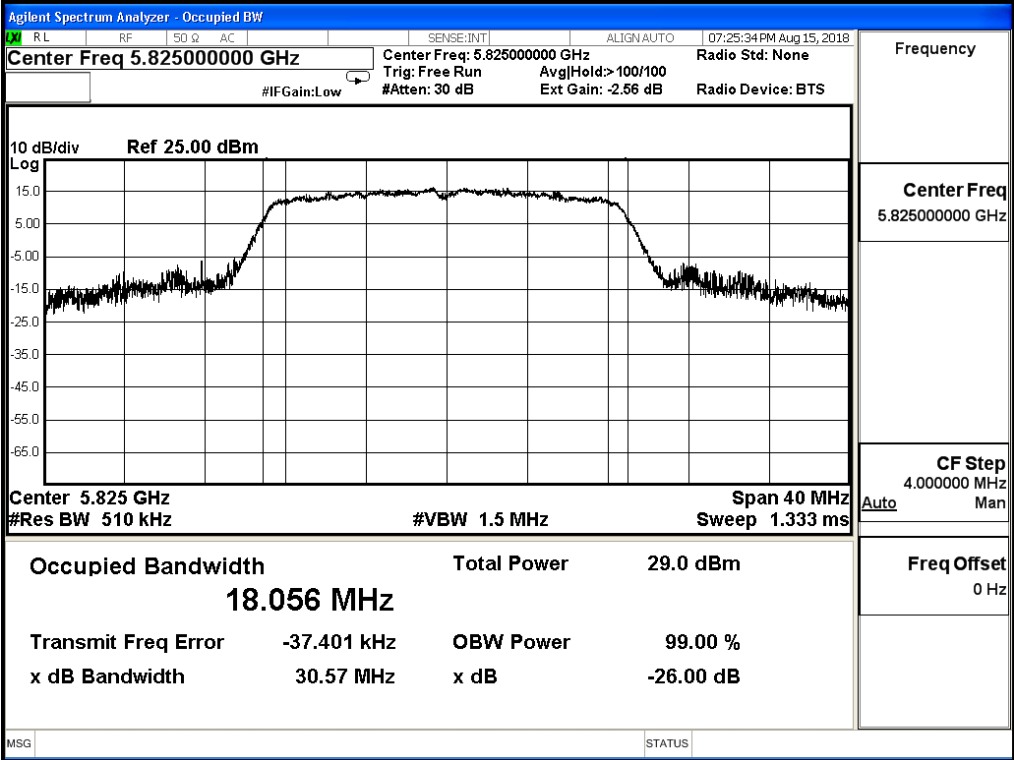
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

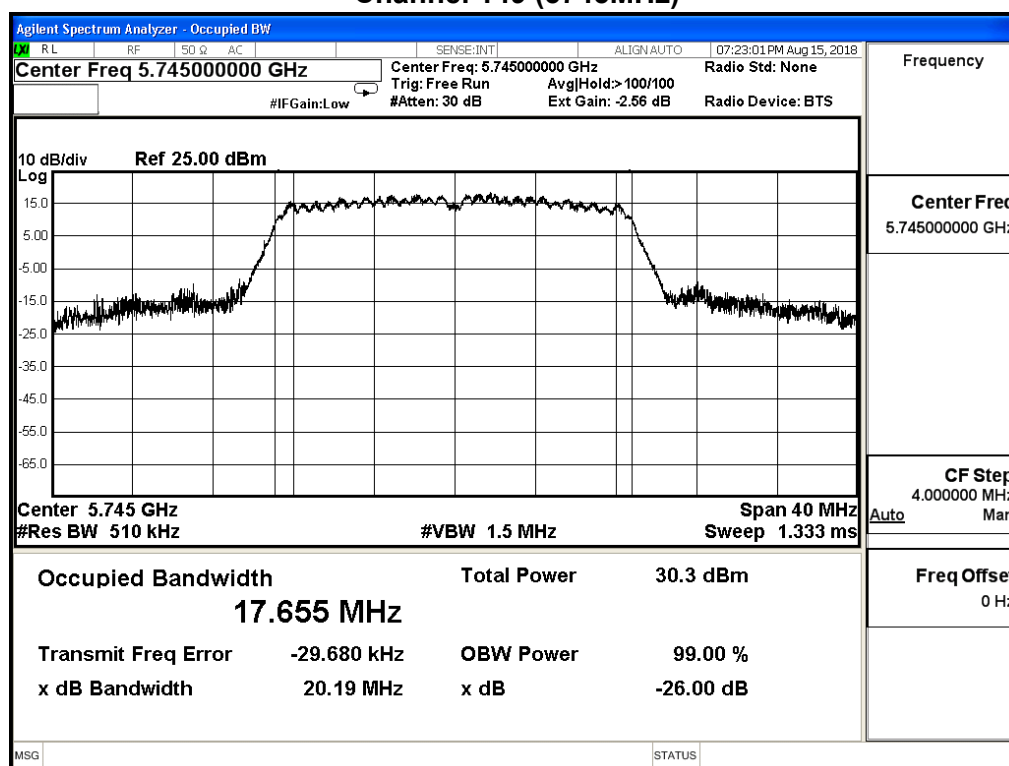


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

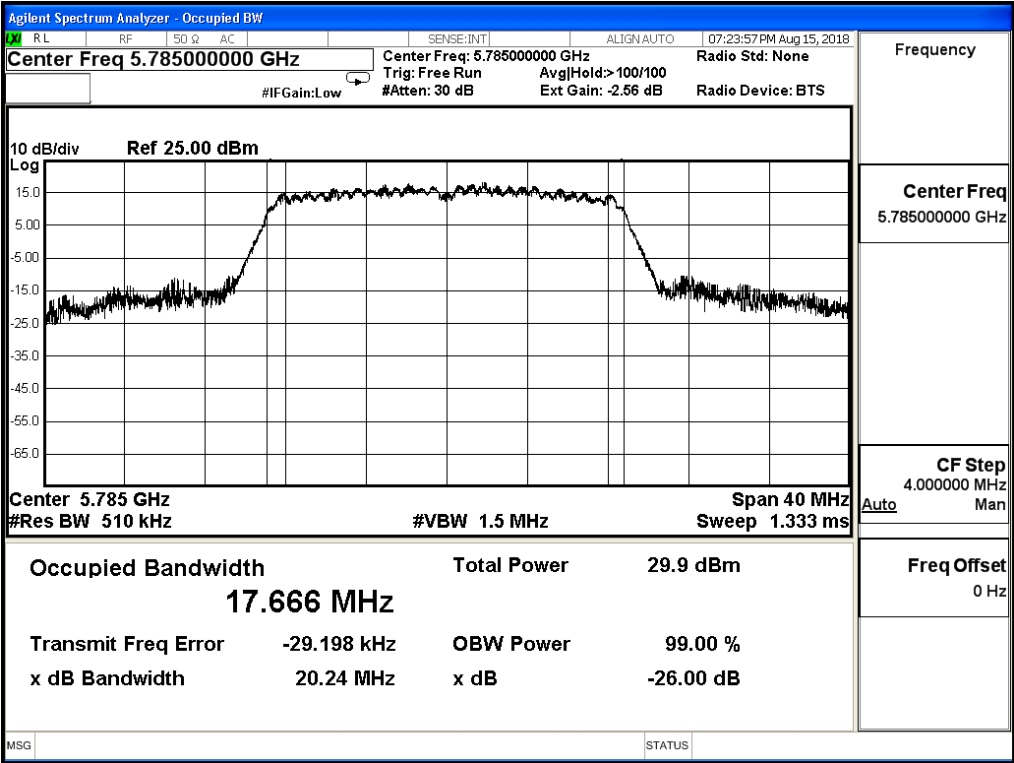
IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	17.655	---
157	5785	17.666	---
165	5825	17.744	---

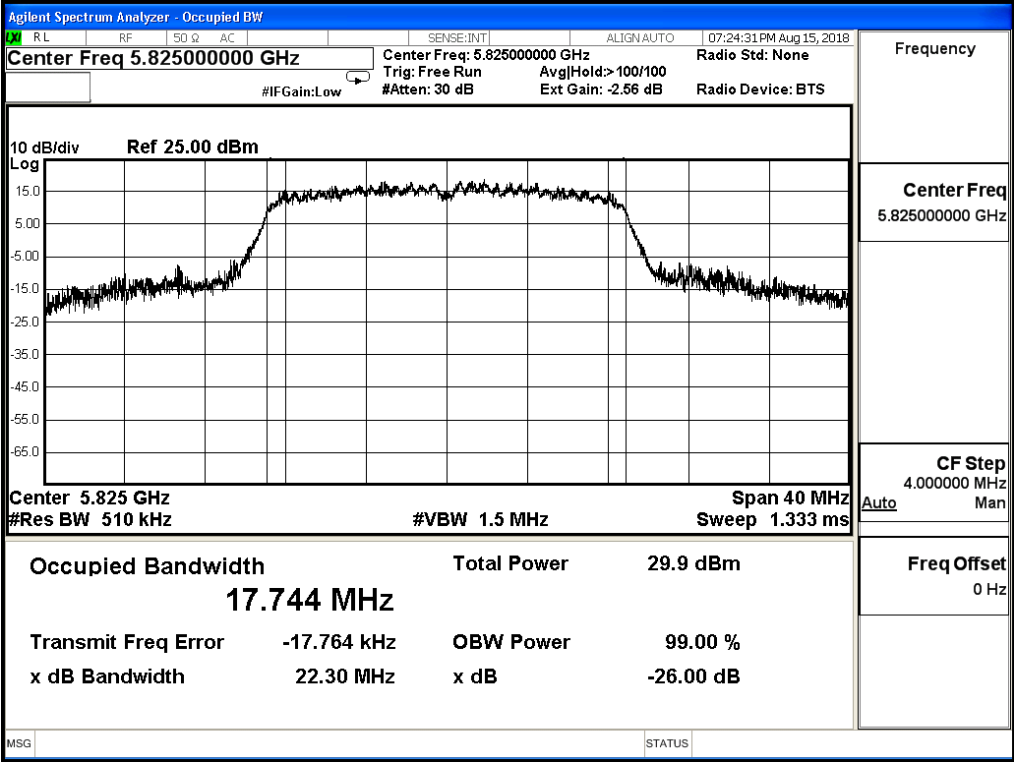
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

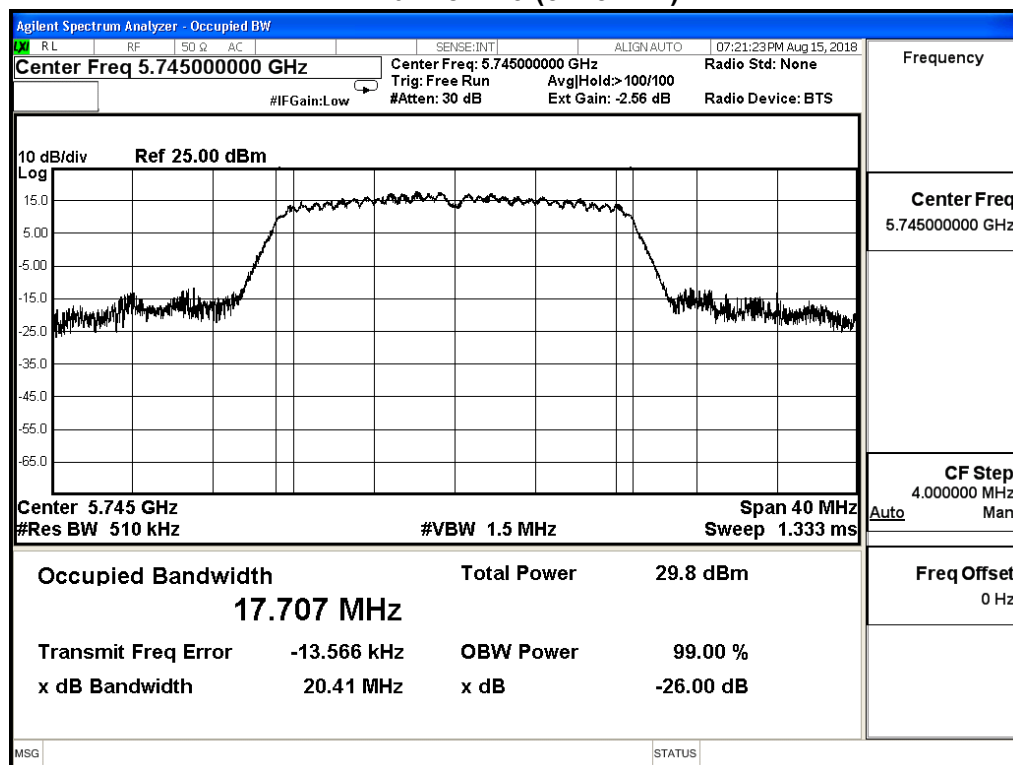


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

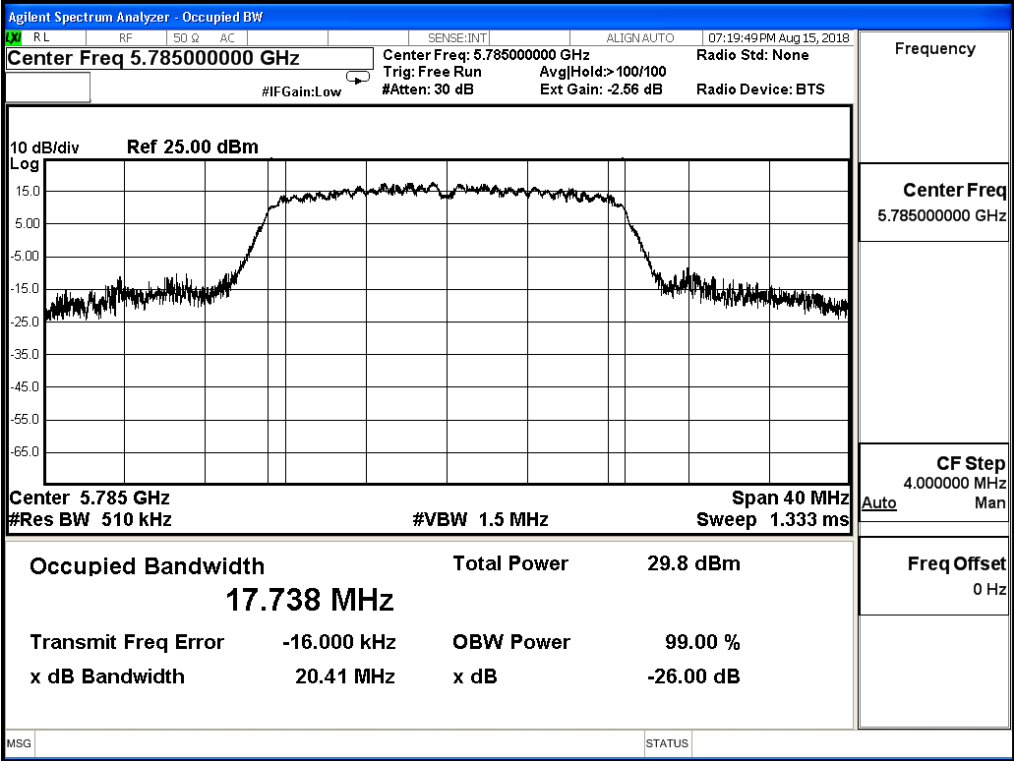
IEEE 802.11n_20M (ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	17.707	---
157	5785	17.738	---
165	5825	17.732	---

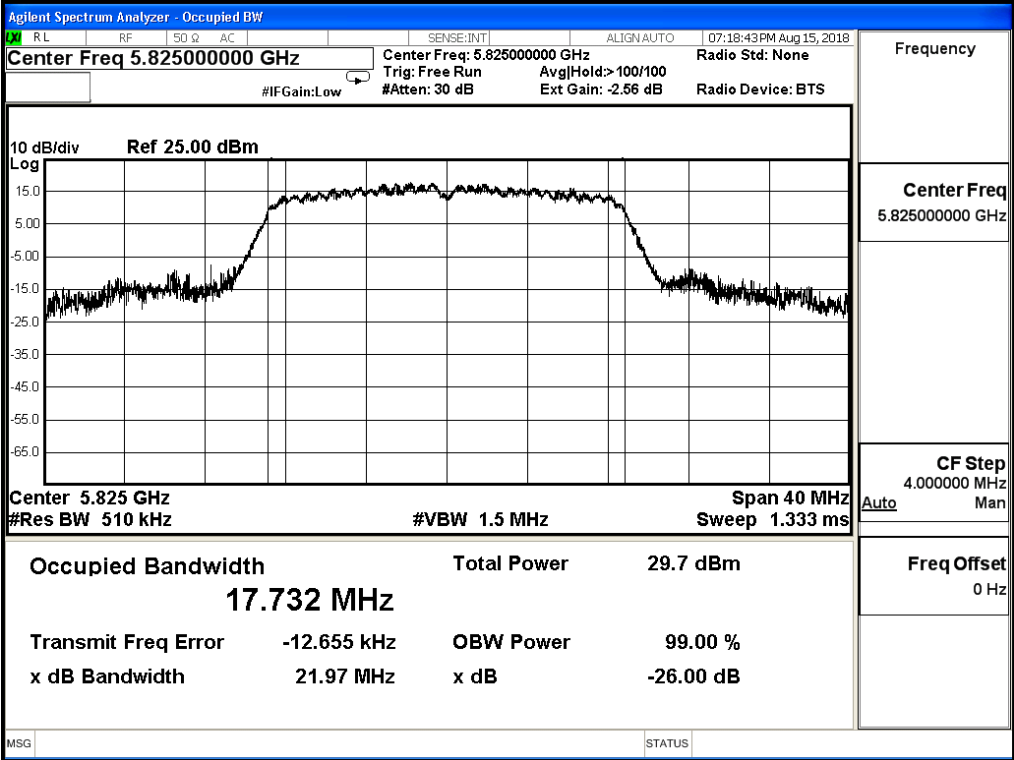
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

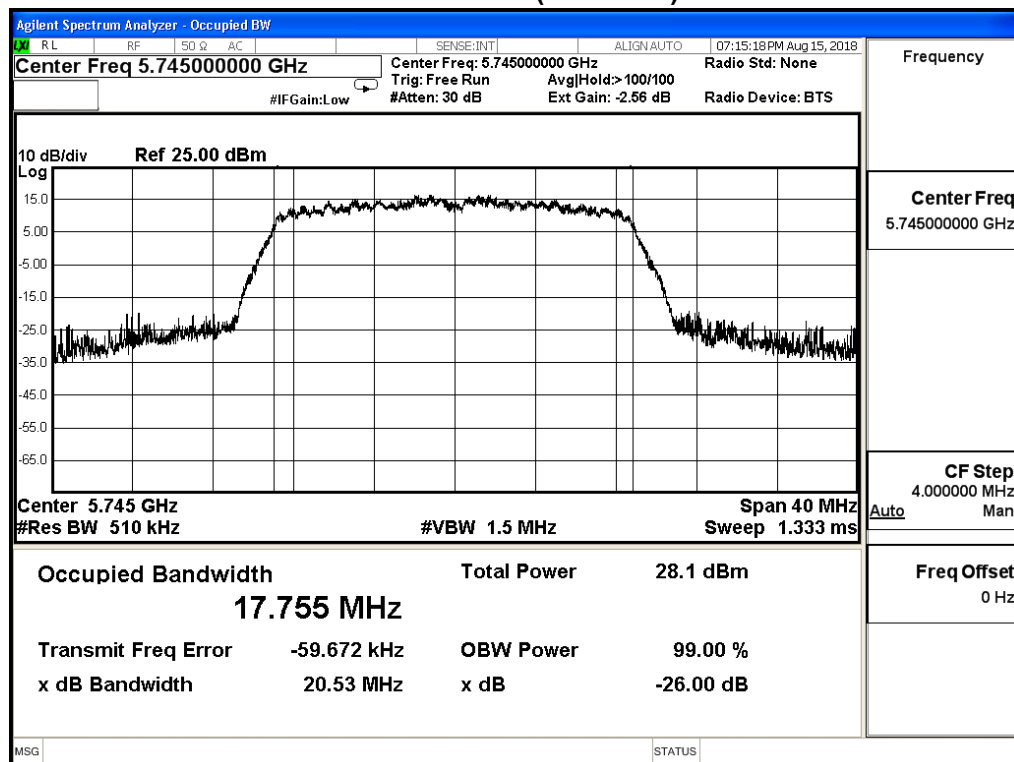


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

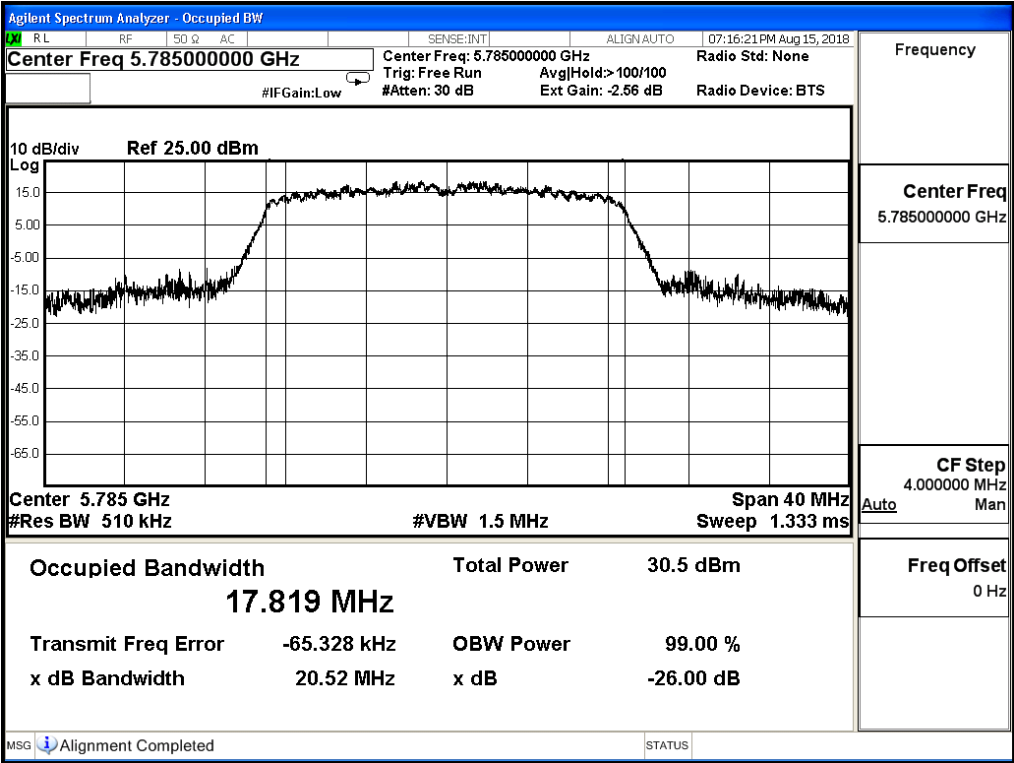
IEEE 802.11n_20M (ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
149	5745	17.755	---
157	5785	17.819	---
165	5825	17.776	---

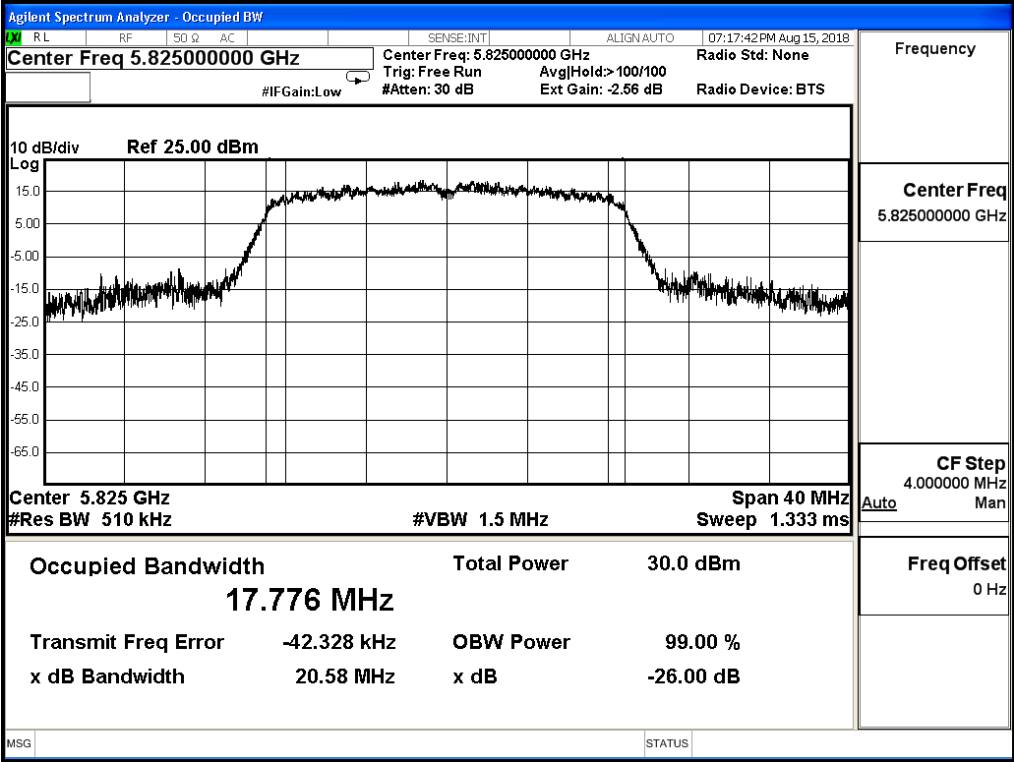
Channel 149 (5745MHz)



Channel 157 (5785MHz)



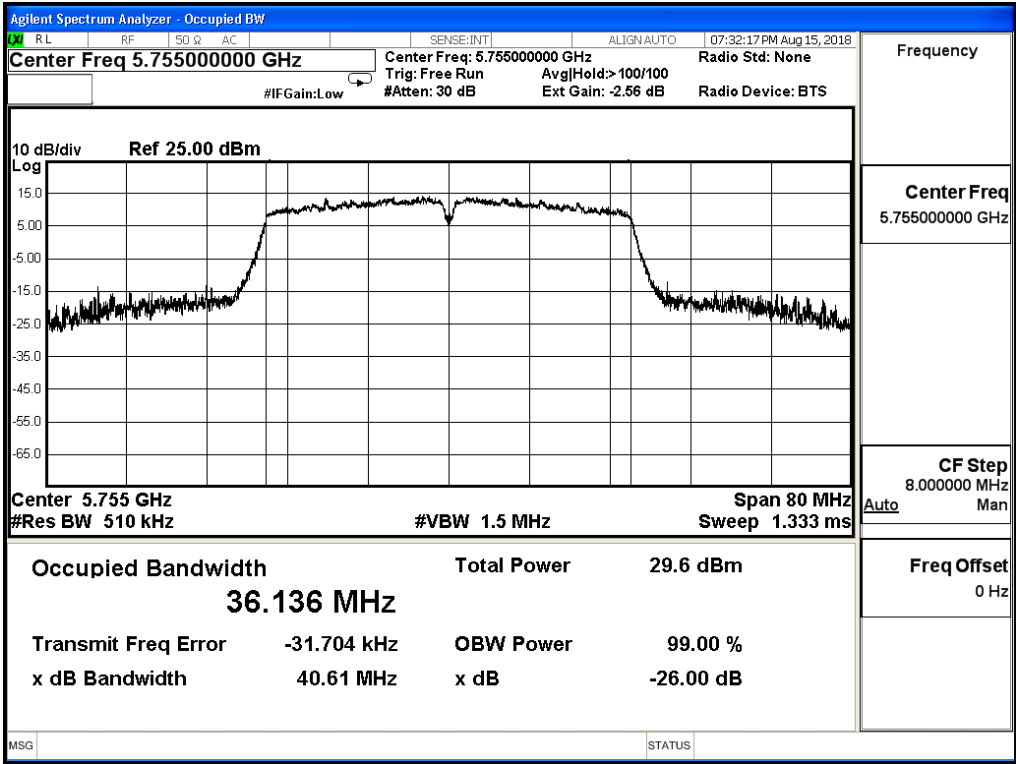
Channel 165 (5825MHz)



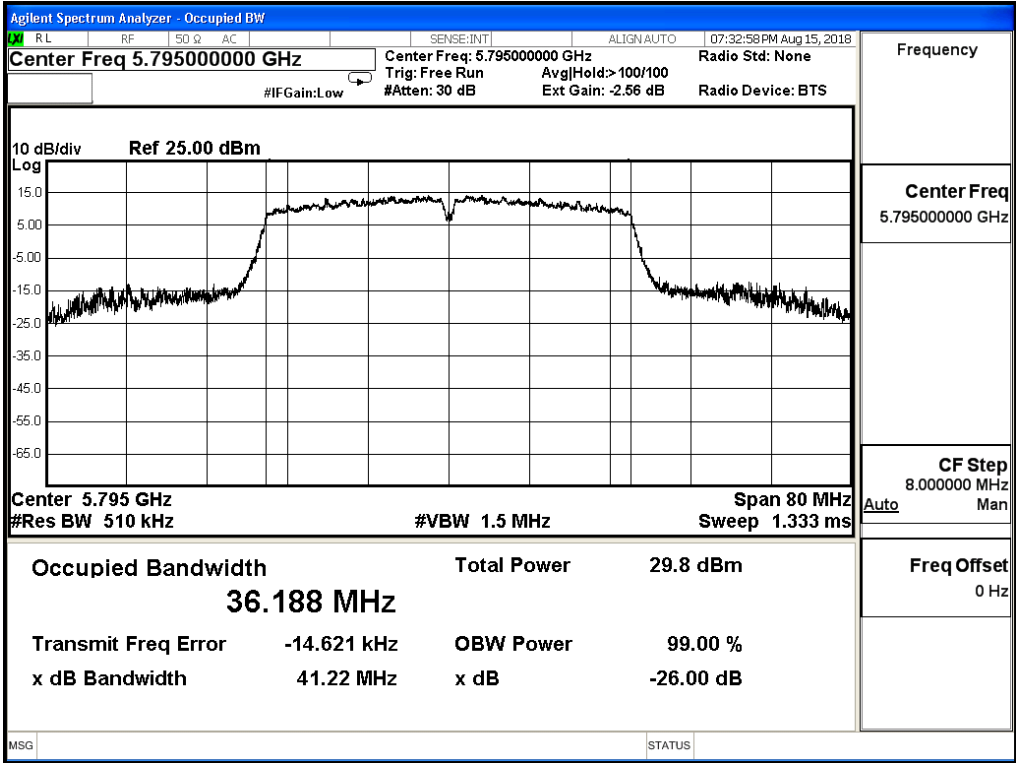
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M (ANT 0)			
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
151	5755	36.136	---
159	5795	36.188	---

Channel 151 (5755MHz)



Channel 159 (5795MHz)



IEEE 802.11n_40M (ANT 1)			
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
151	5755	36.125	---
159	5795	36.157	---

Agilent Spectrum Analyzer - Occupied BW

☒ R.L. RF 50 Ω AC SENSE:INT ALIGN: AUTO 07:35:06 PM Aug 15, 2018

Center Freq 5.75500000 GHz Center Freq: 5.755000000 GHz Radio Std: None
 Trig: Free Run Avg/Hold: > 100/100
 #IF Gain: Low #Atten: 30 dB Ext Gain: -2.56 dB Radio Device: BTS

Frequency

Center Freq 5.75500000 GHz

10 dB/div Ref 25.00 dBm
 Log

Center 5.755 GHz Span 80 MHz
 #Res BW 510 kHz #VBW 1.5 MHz Sweep 1.333 ms

Occupied Bandwidth 36.125 MHz Total Power 30.5 dBm

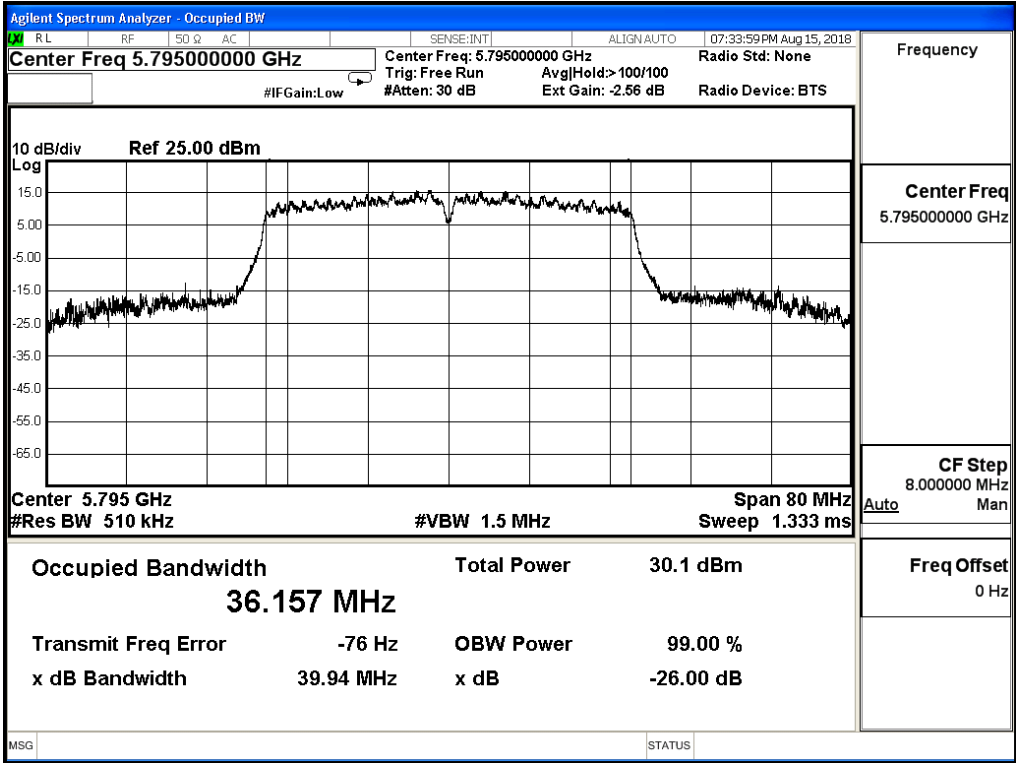
Transmit Freq Error -23.439 kHz OBW Power 99.00 %
 x dB Bandwidth 39.99 MHz x dB -26.00 dB

CF Step 8.000000 MHz
 Auto Man

Freq Offset 0 Hz

MSG STATUS

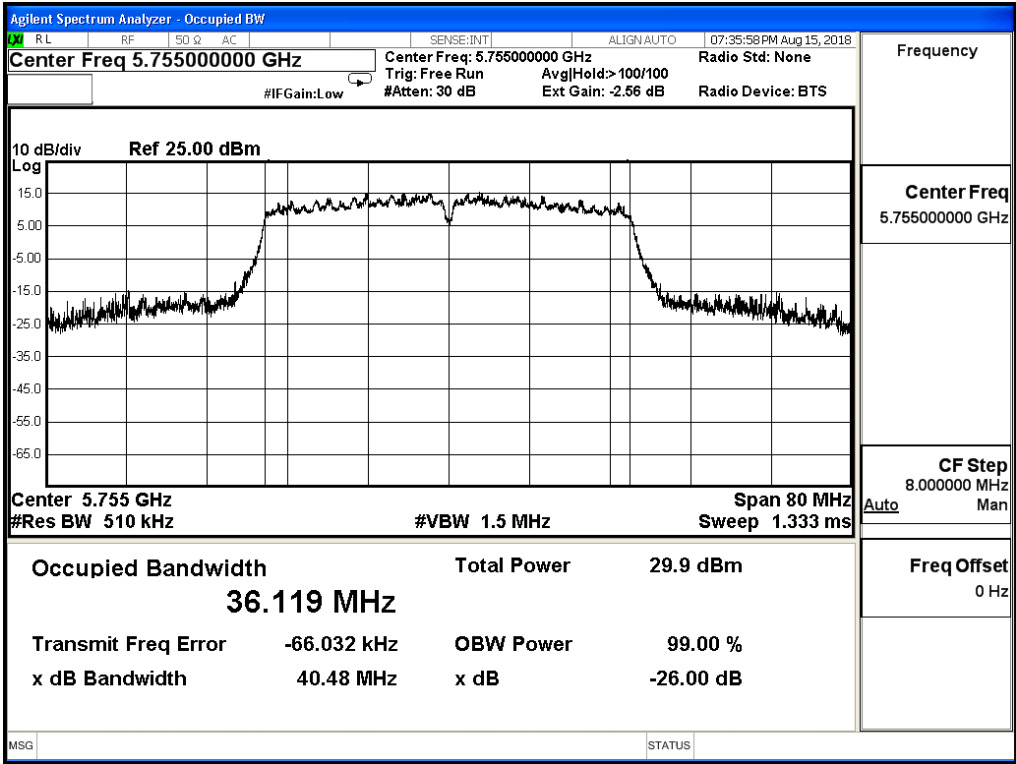
Channel 159 (5795MHz)



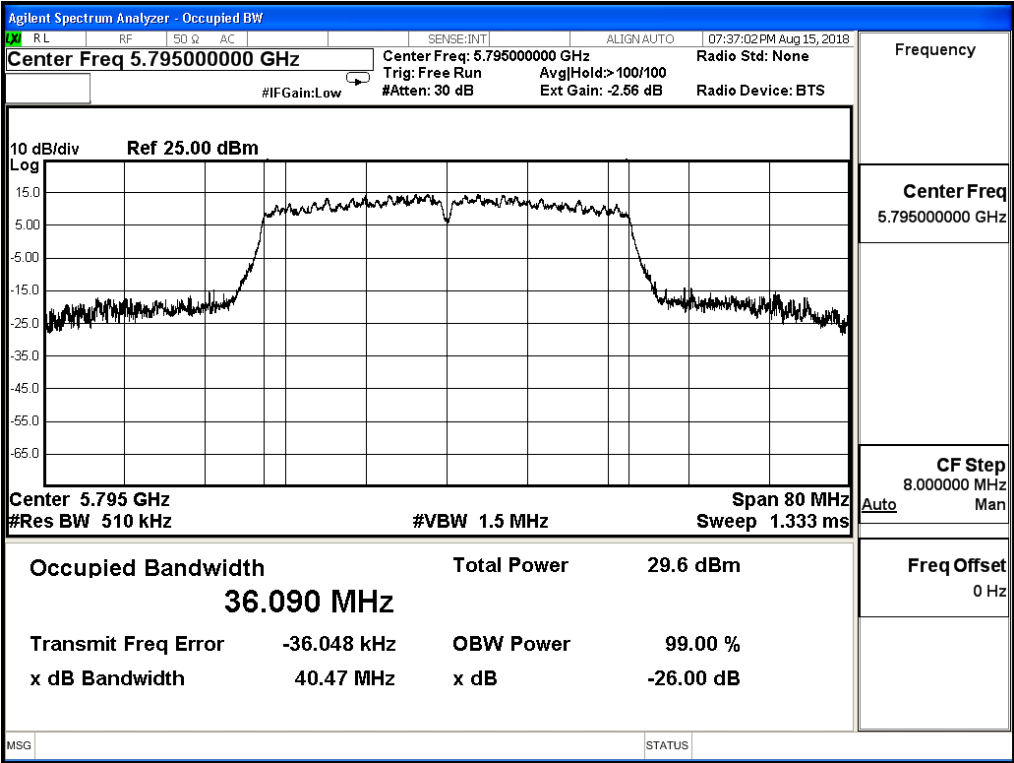
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M (ANT 2)			
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
151	5755	36.119	---
159	5795	36.090	---

Channel 151 (5755MHz)



Channel 159 (5795MHz)

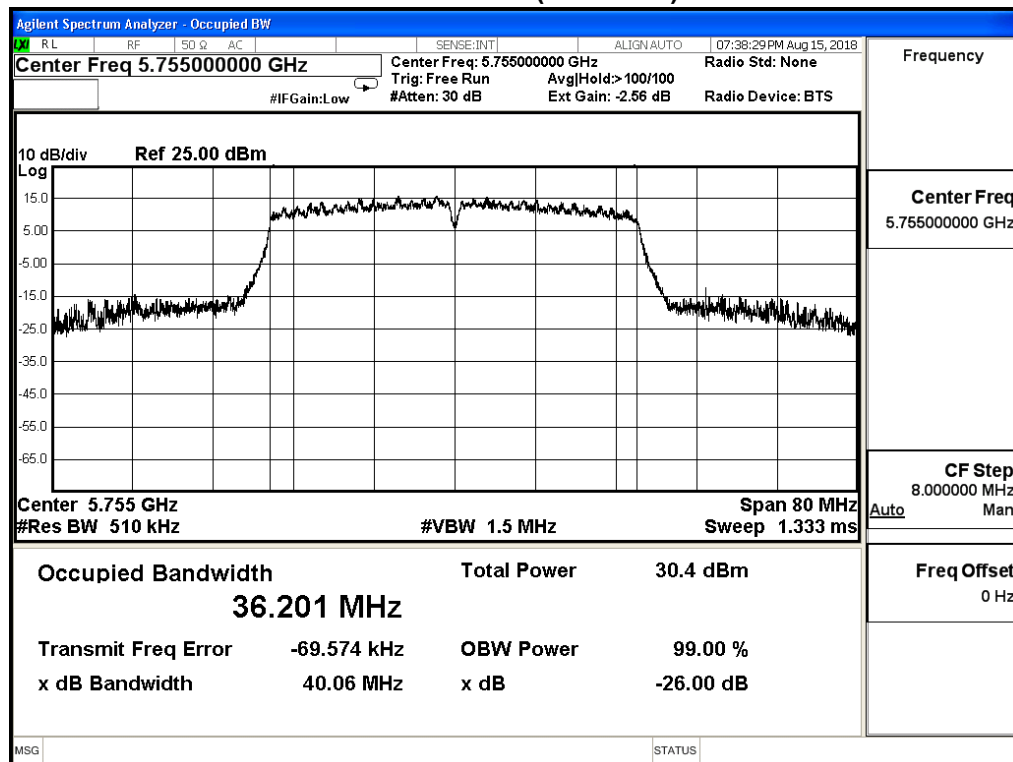


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

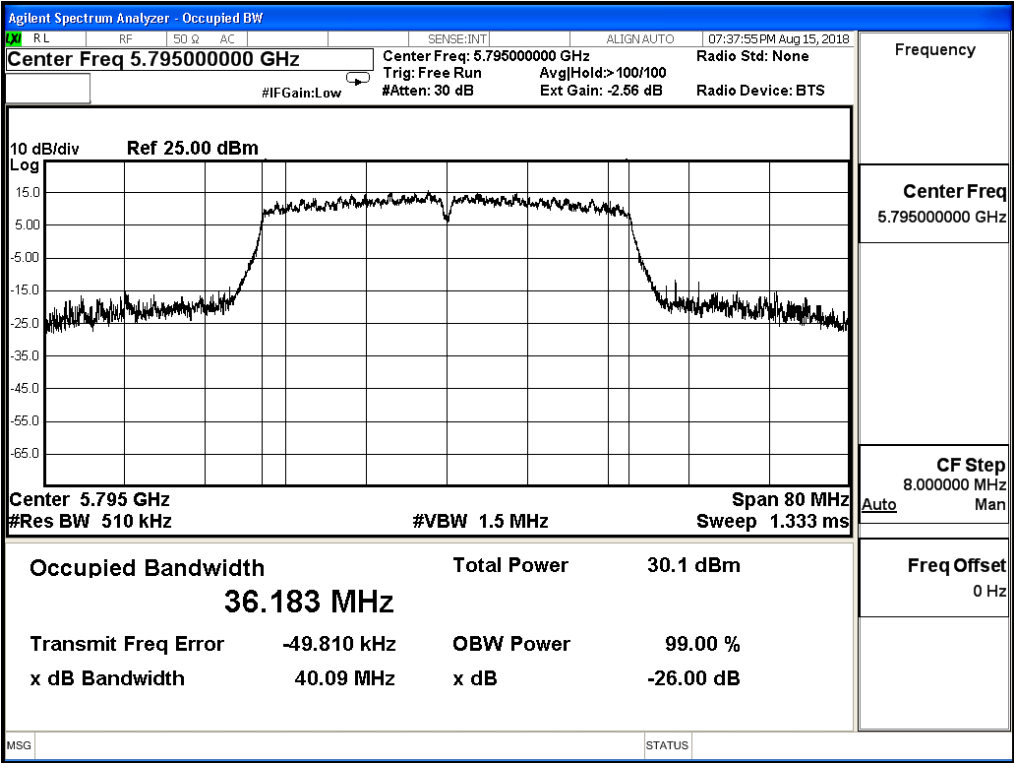
IEEE 802.11n_40M (ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
151	5755	36.201	---
159	5795	36.183	---

Channel 151 (5755MHz)



Channel 159 (5795MHz)

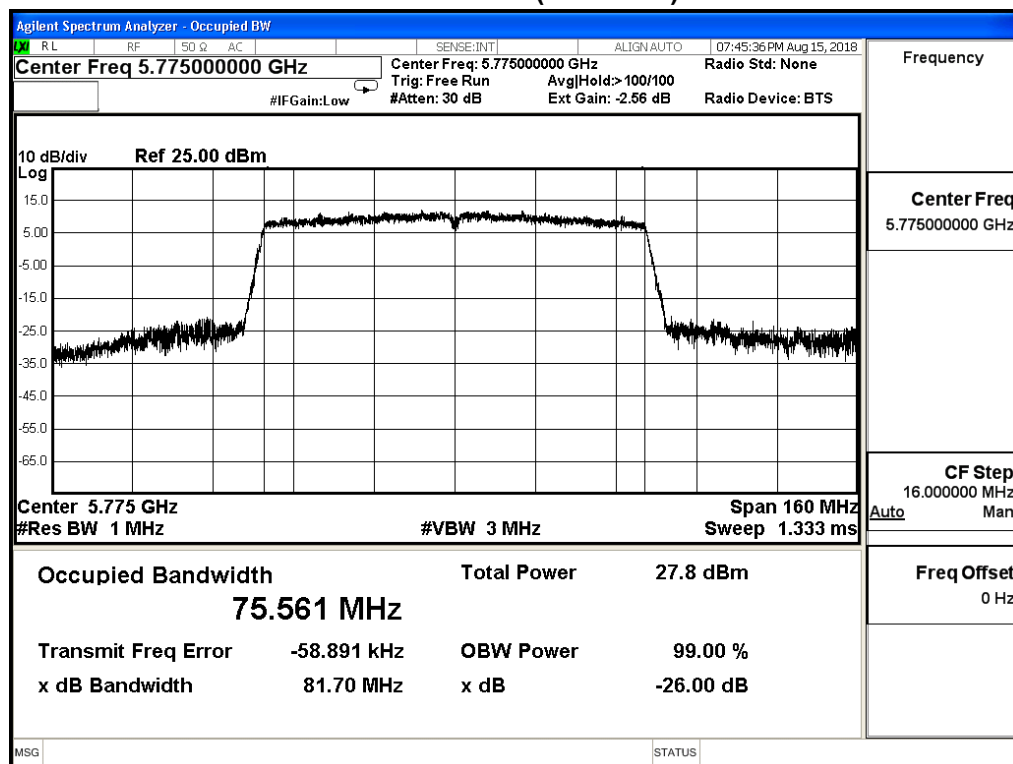


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M (ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
155	5775	75.561	---

Channel 155 (5775MHz)

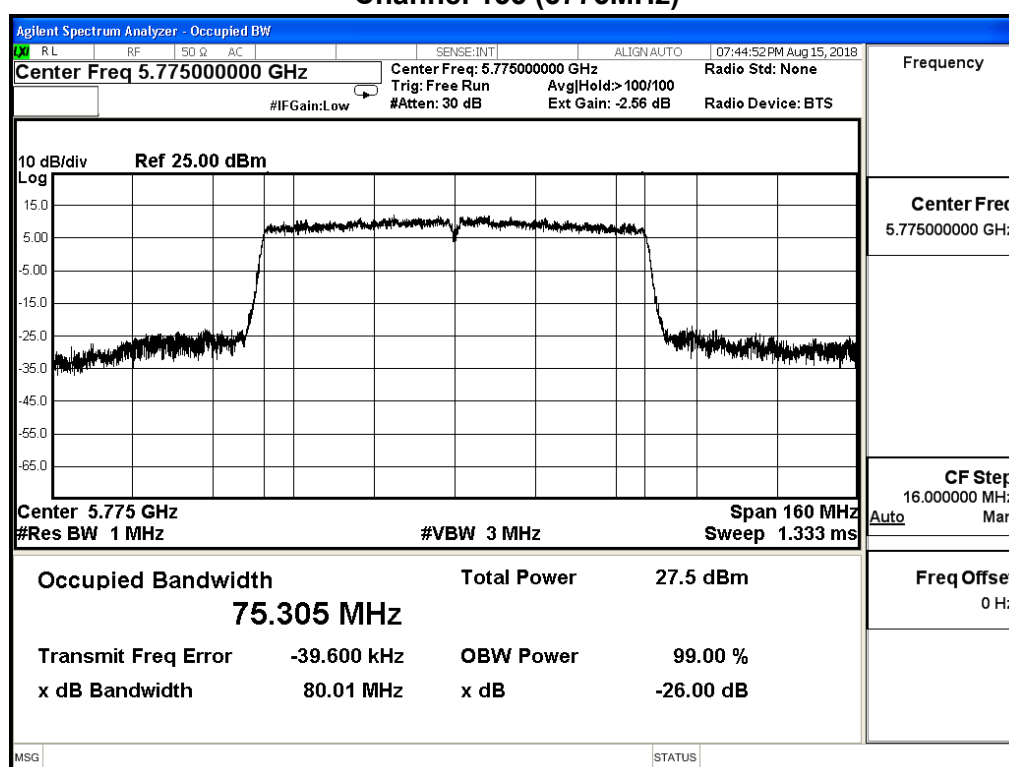


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M (ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
155	5775	75.305	---

Channel 155 (5775MHz)

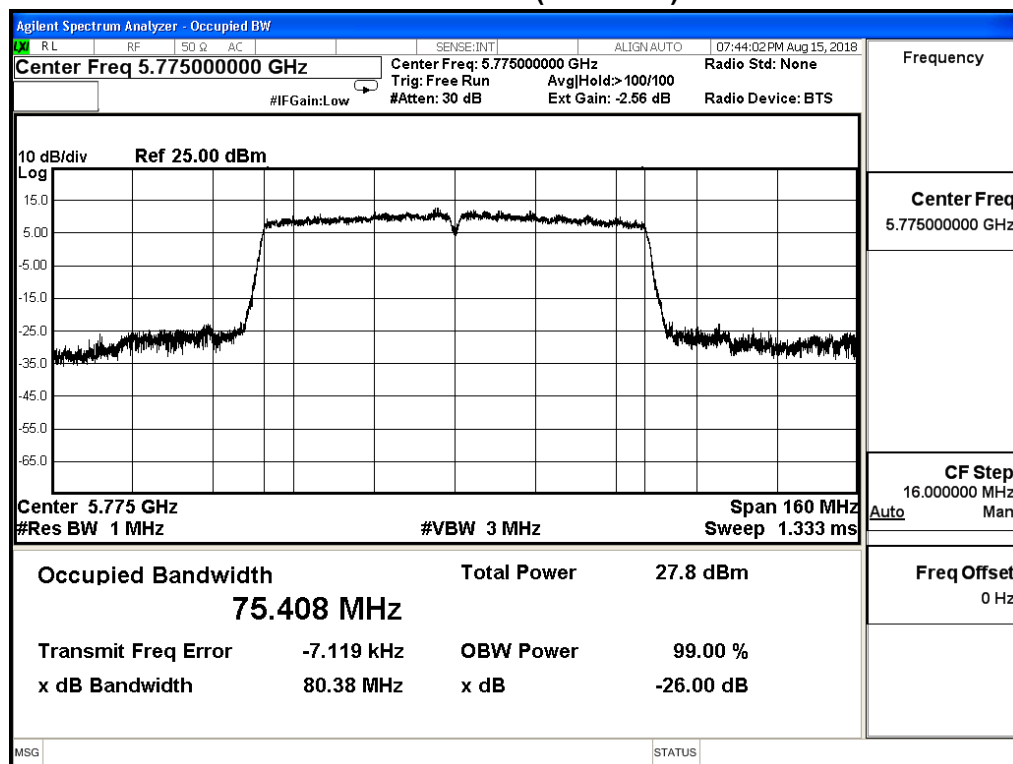


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M (ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
155	5775	75.408	---

Channel 155 (5775MHz)

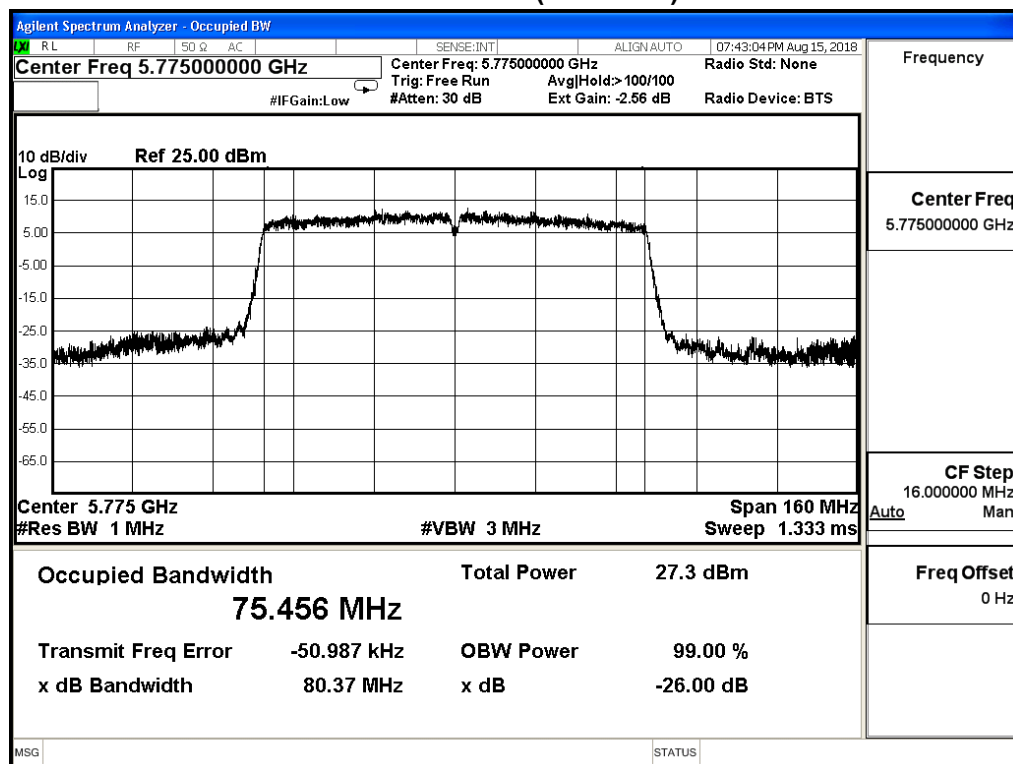


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(99%)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M (ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)
155	5775	75.456	---

Channel 155 (5775MHz)

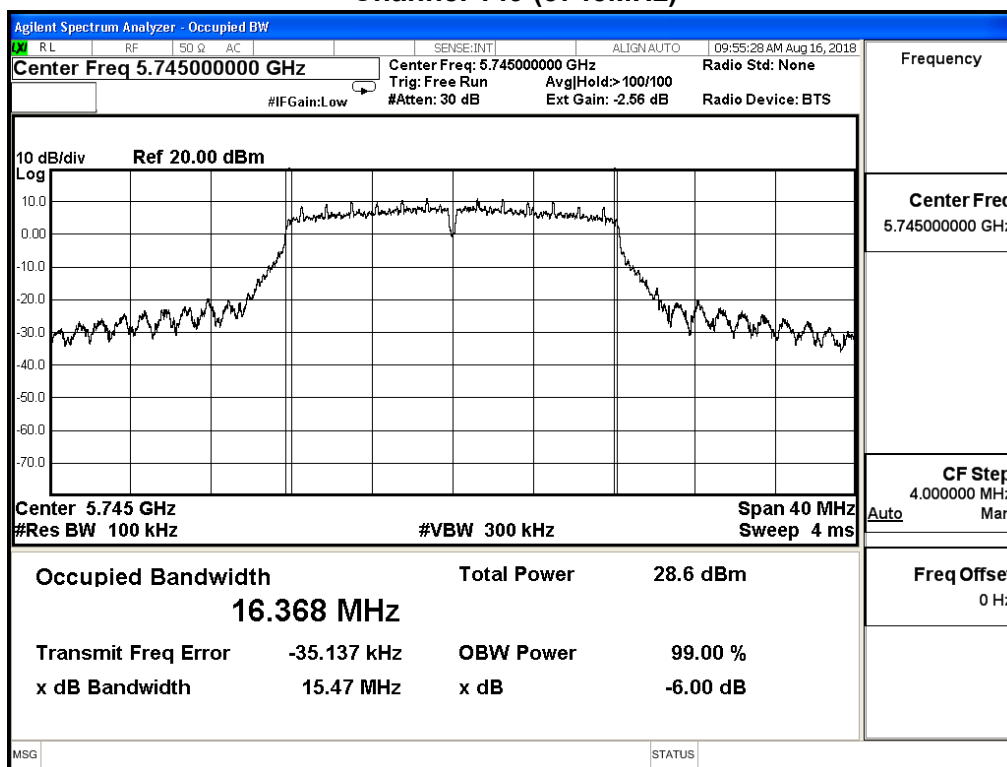


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

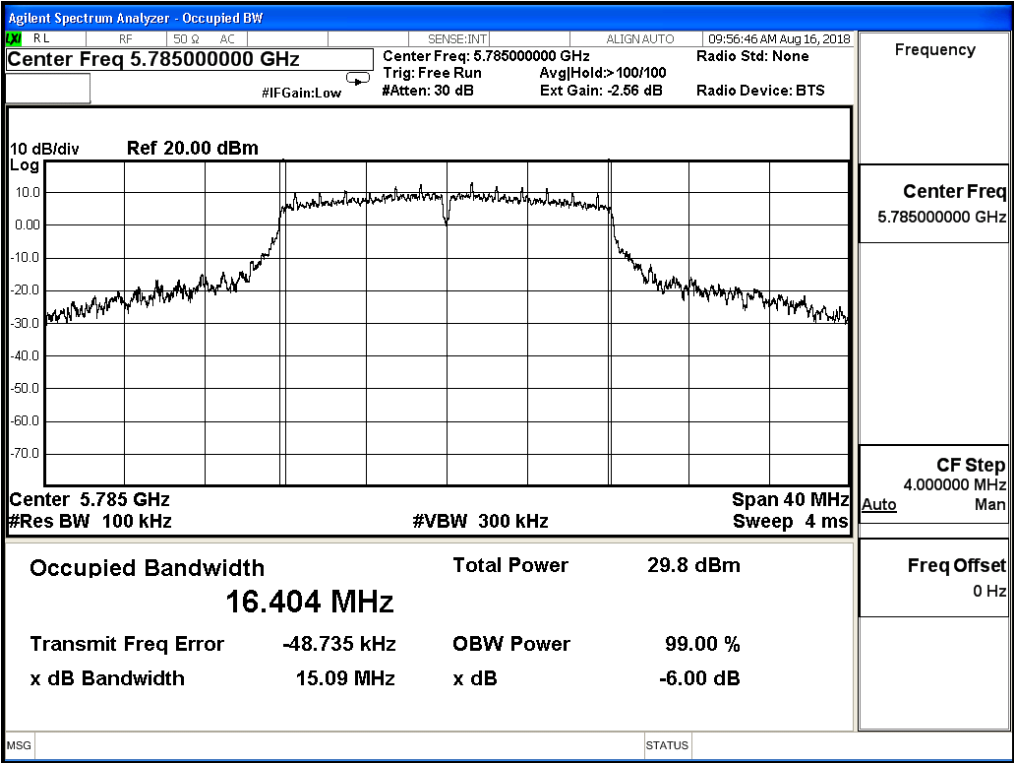
IEEE 802.11a(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	15.470	≥ 0.5	Pass
157	5785	15.090	≥ 0.5	Pass
165	5825	15.120	≥ 0.5	Pass

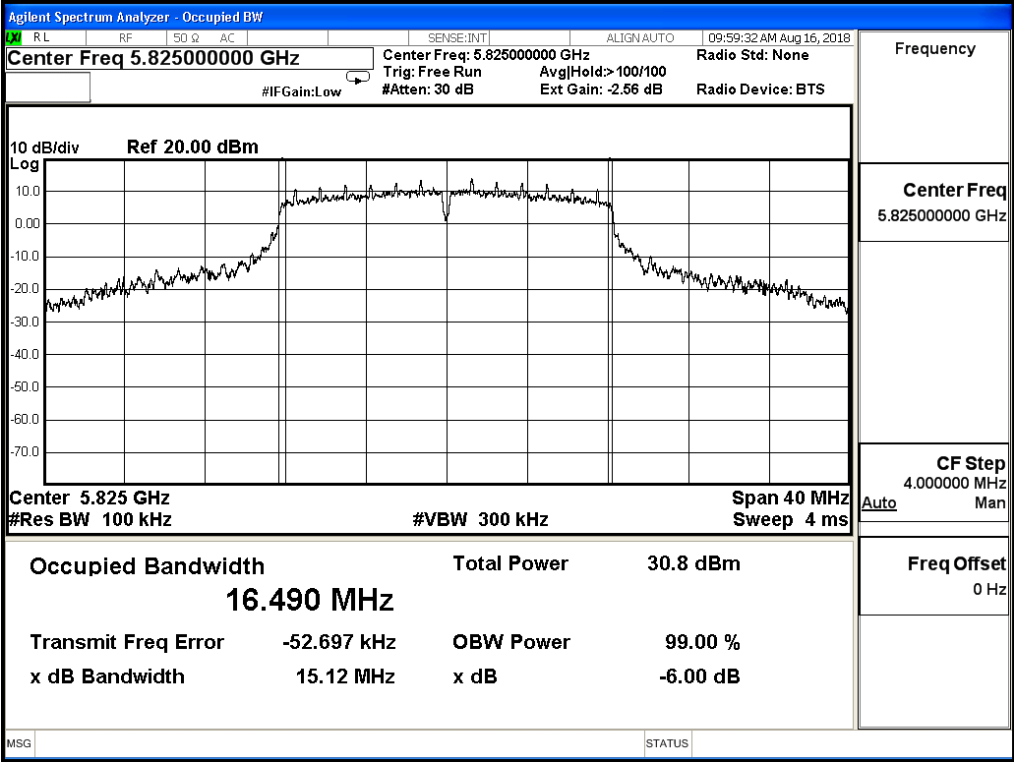
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

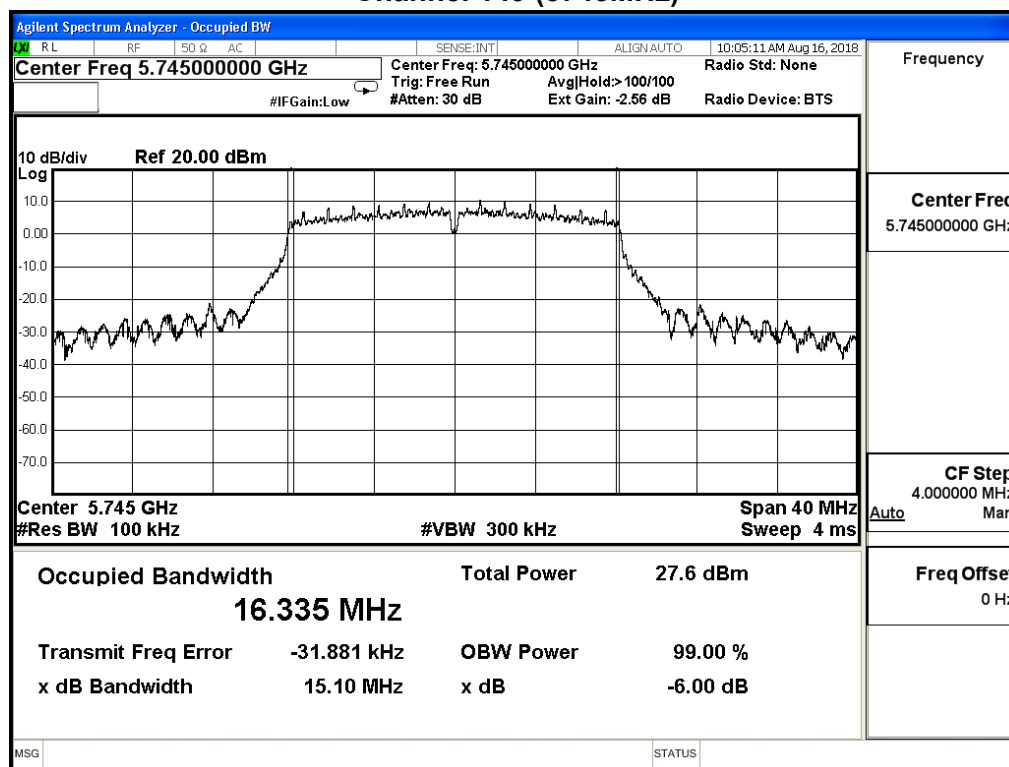


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

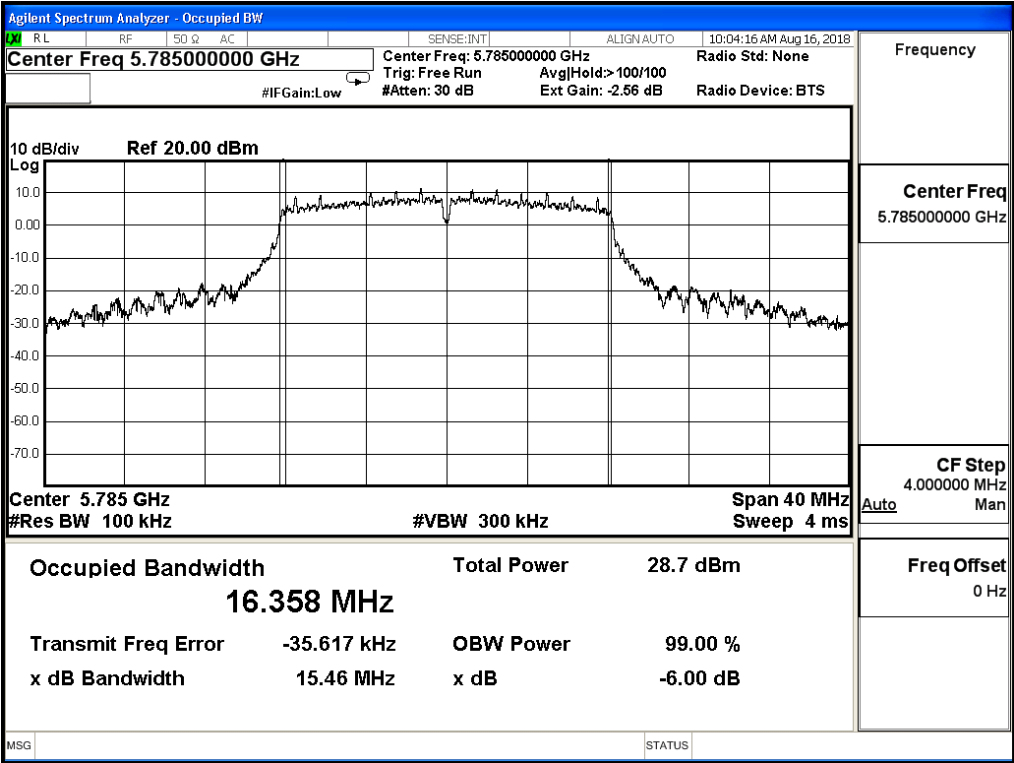
IEEE 802.11a(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	15.100	≥ 0.5	Pass
157	5785	15.460	≥ 0.5	Pass
165	5825	15.130	≥ 0.5	Pass

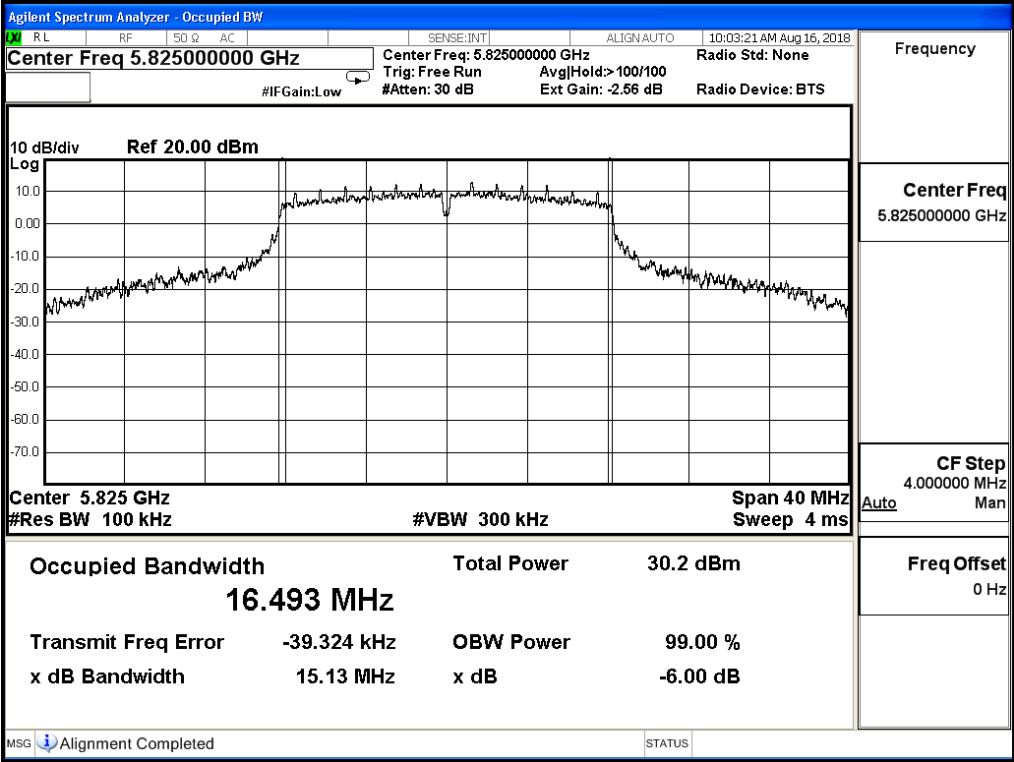
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

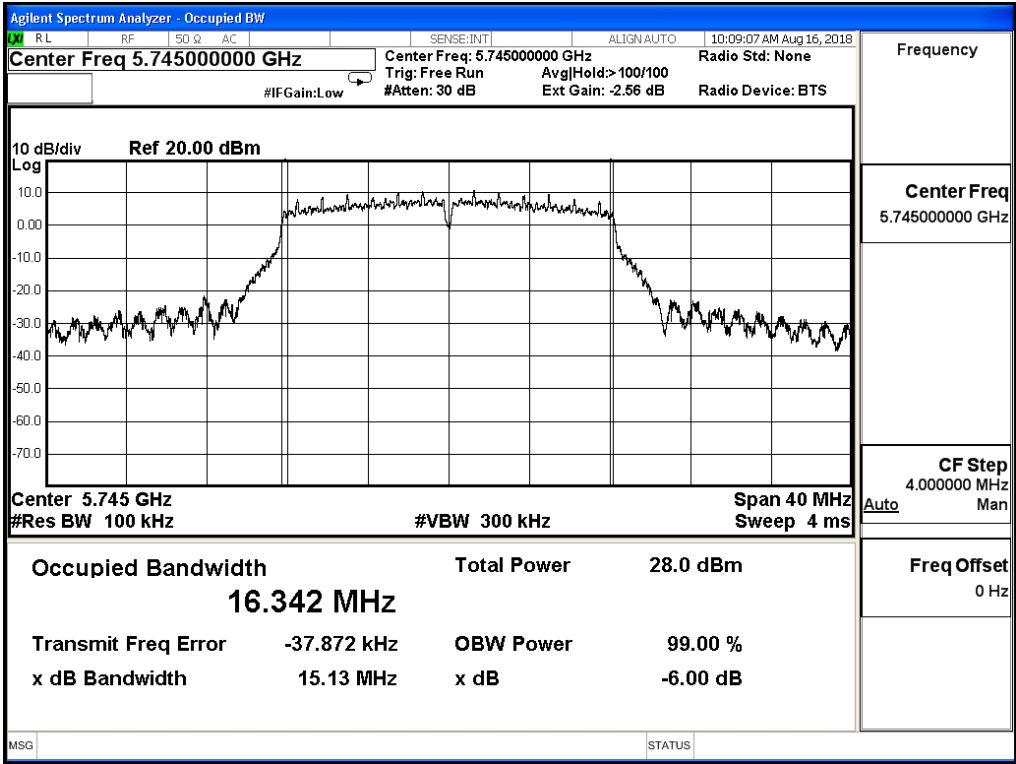


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

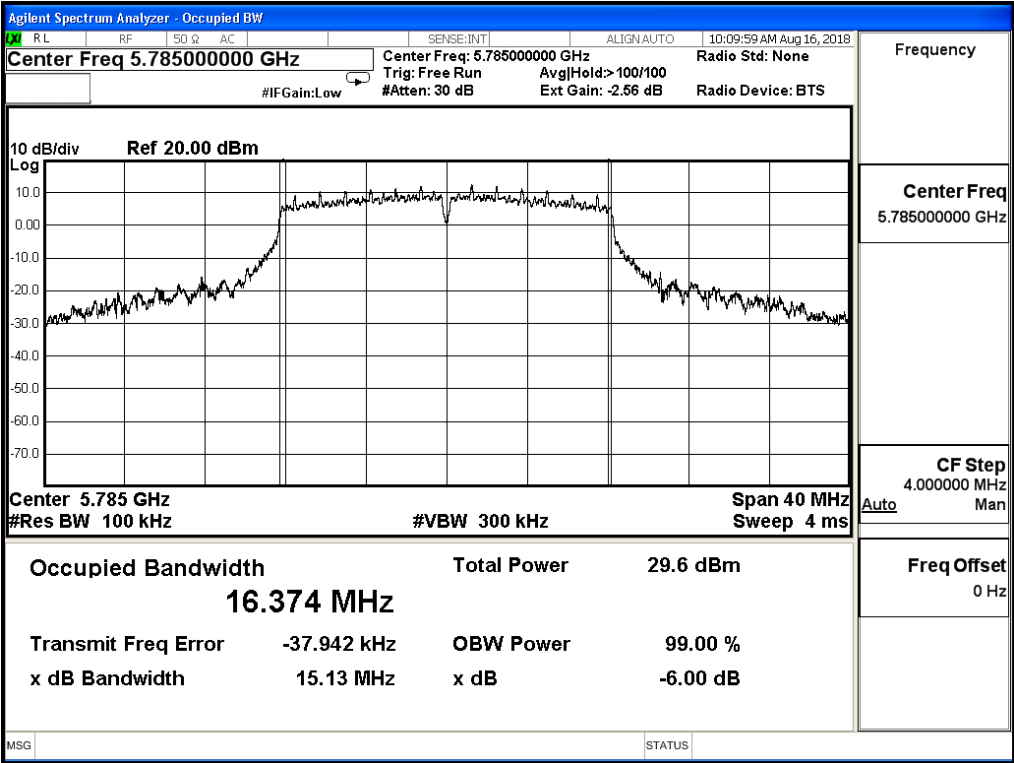
IEEE 802.11a(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	15.130	≥ 0.5	Pass
157	5785	15.130	≥ 0.5	Pass
165	5825	15.130	≥ 0.5	Pass

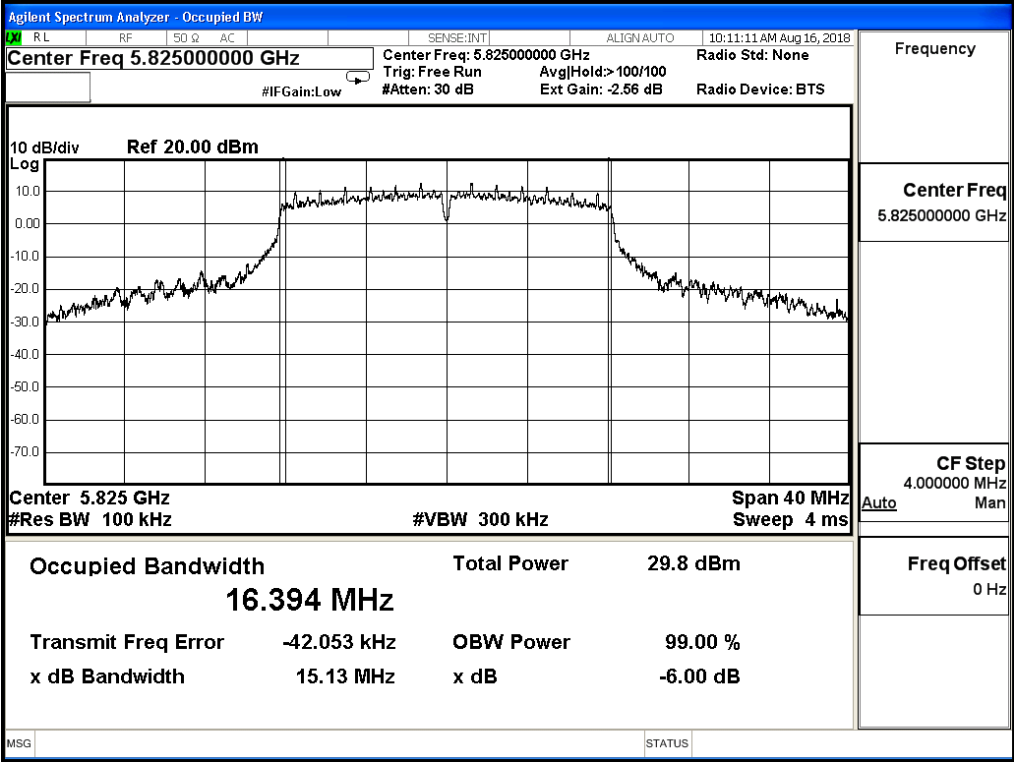
Channel 149 (5745MHz)



Channel 157 (5785MHz)



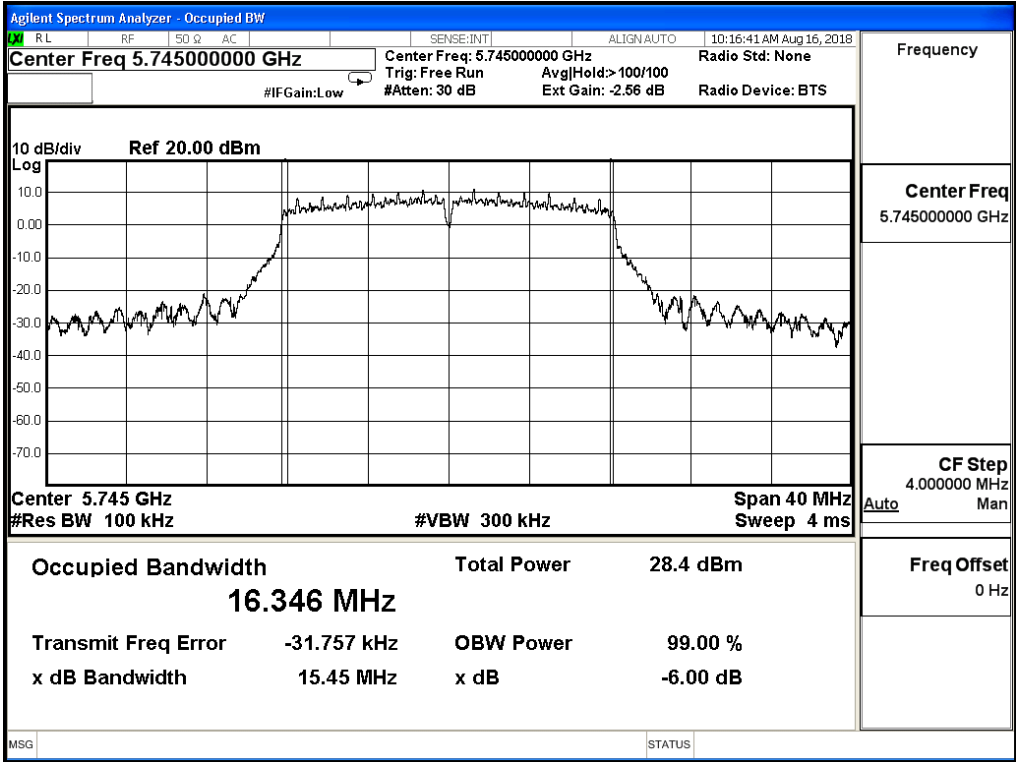
Channel 165 (5825MHz)



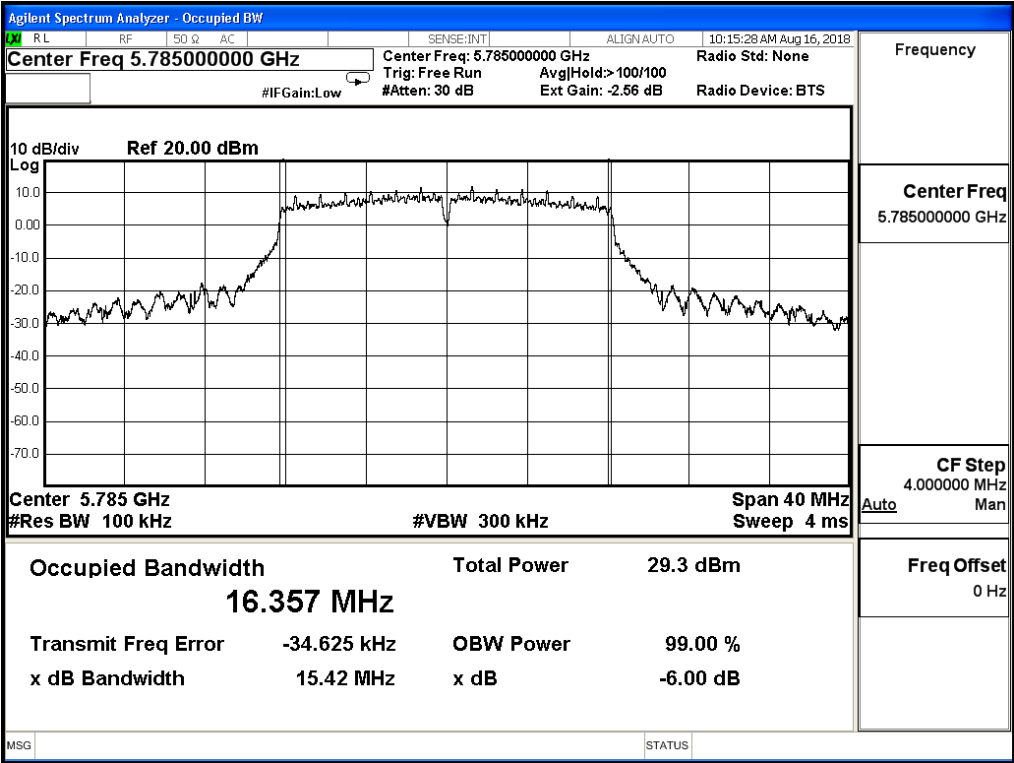
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	15.450	≥ 0.5	Pass
157	5785	15.420	≥ 0.5	Pass
165	5825	15.130	≥ 0.5	Pass

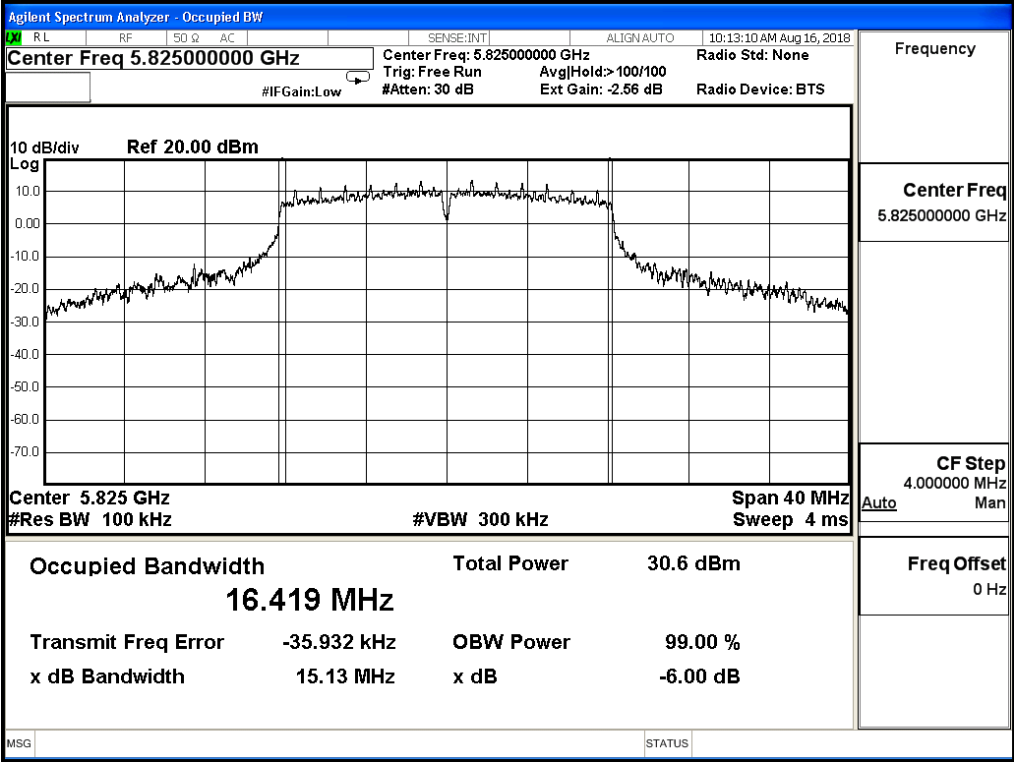
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

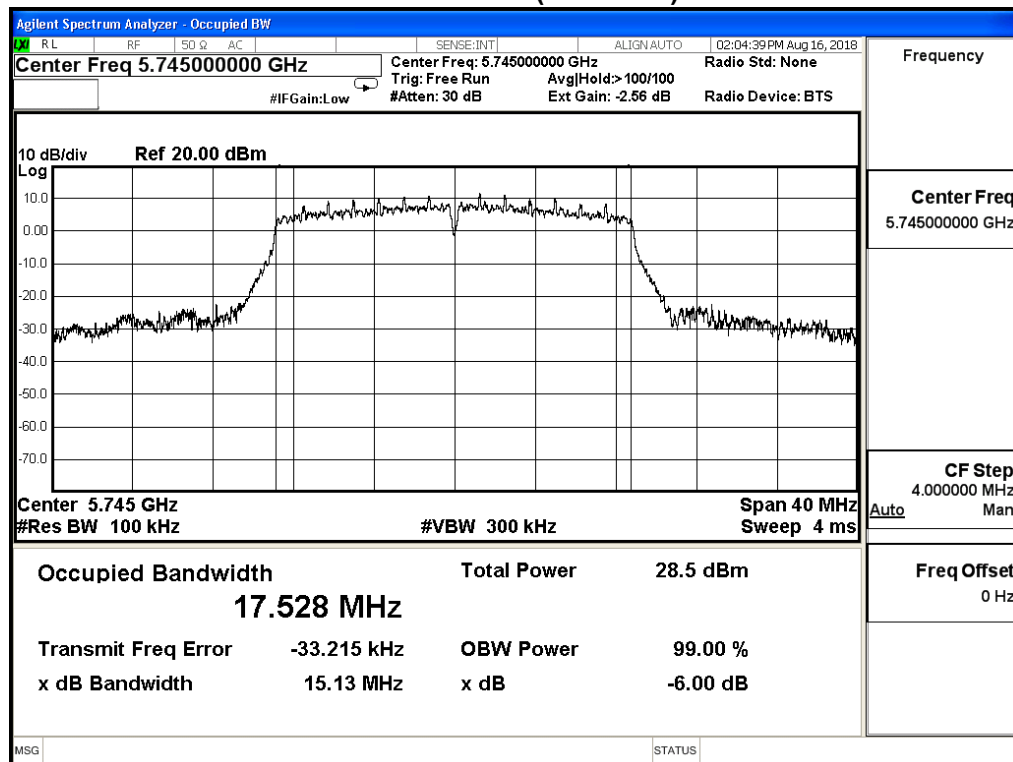


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

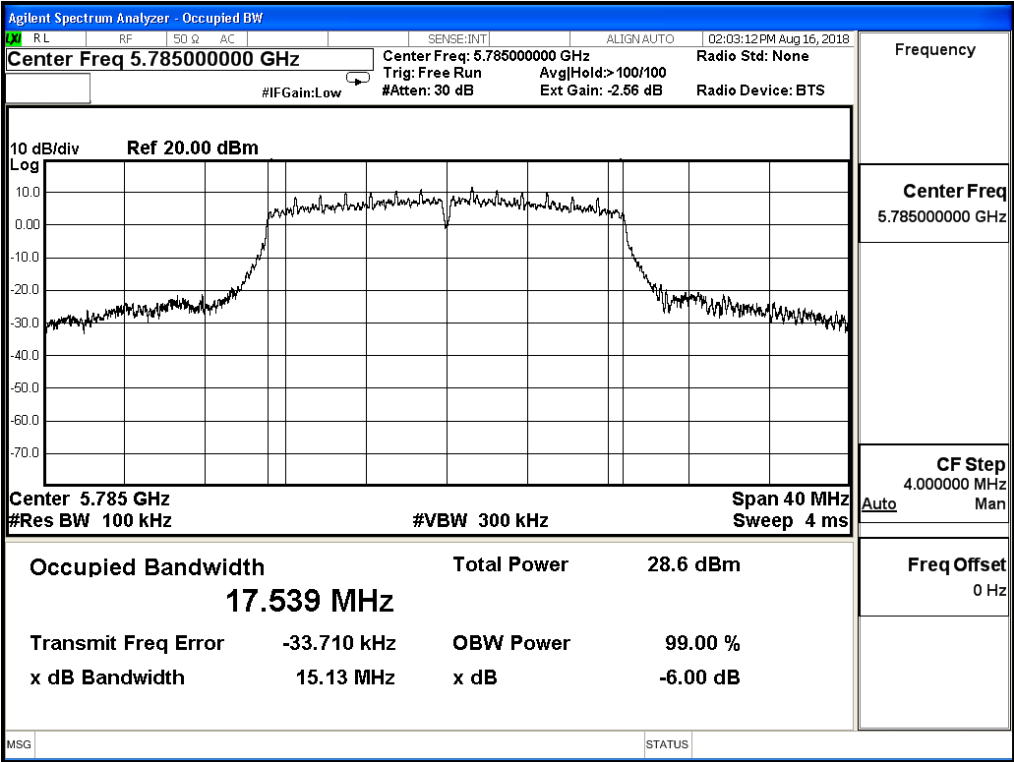
IEEE 802.11n_20M(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	15.130	≥ 0.5	Pass
157	5785	15.130	≥ 0.5	Pass
165	5825	15.120	≥ 0.5	Pass

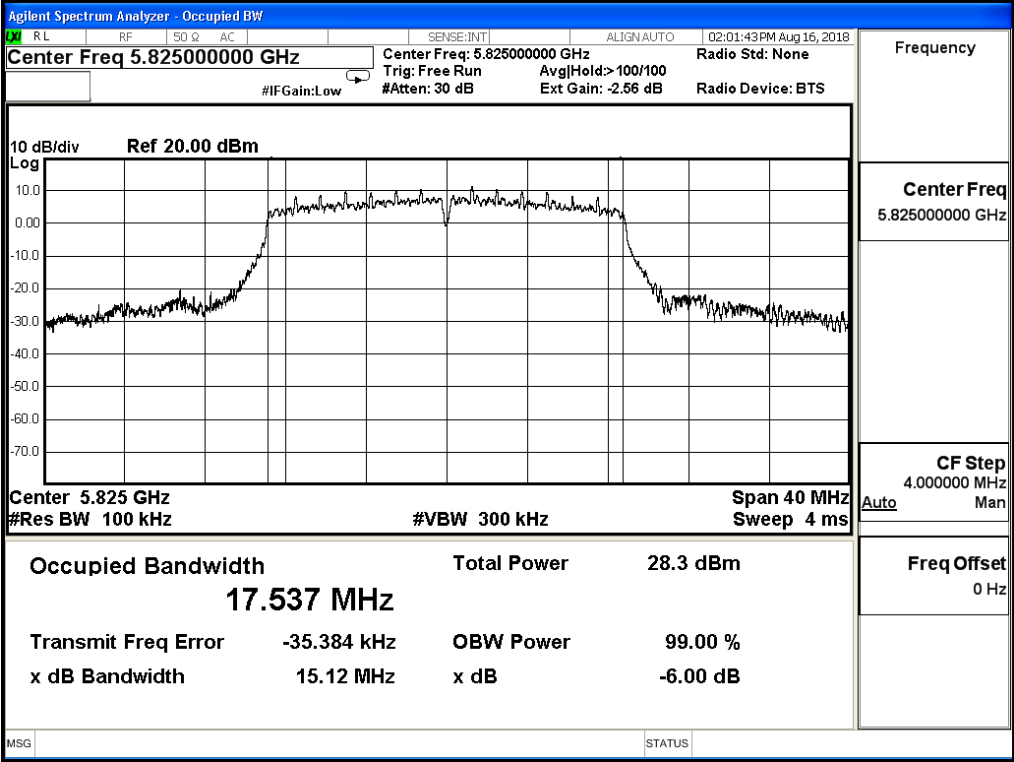
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

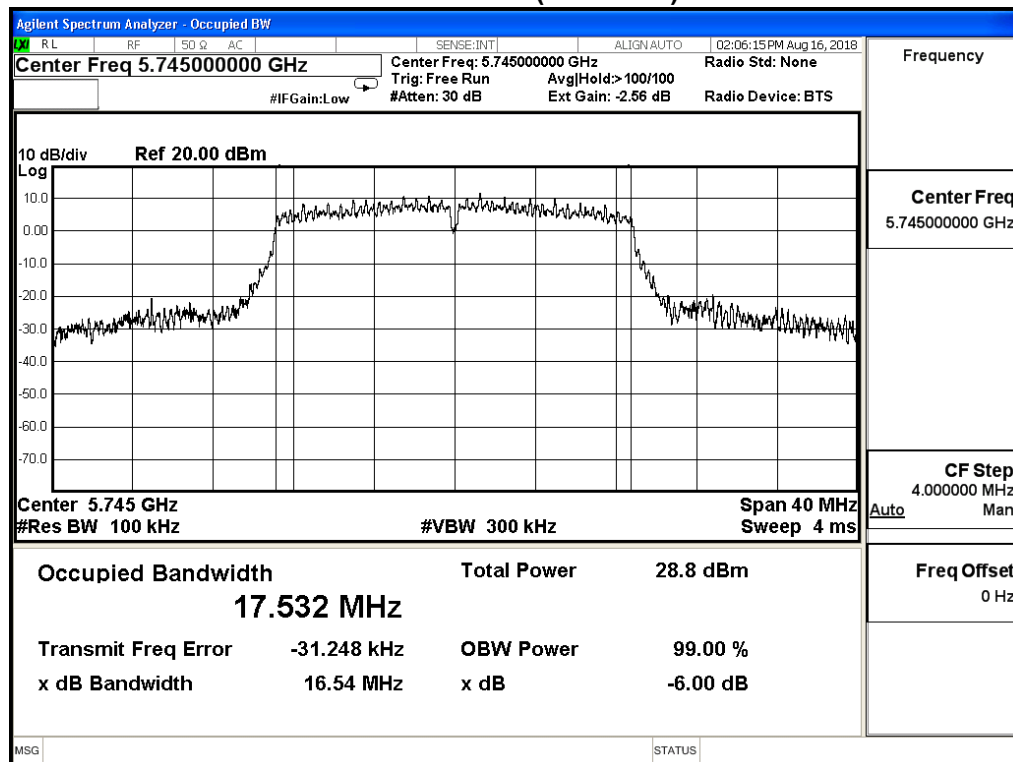


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

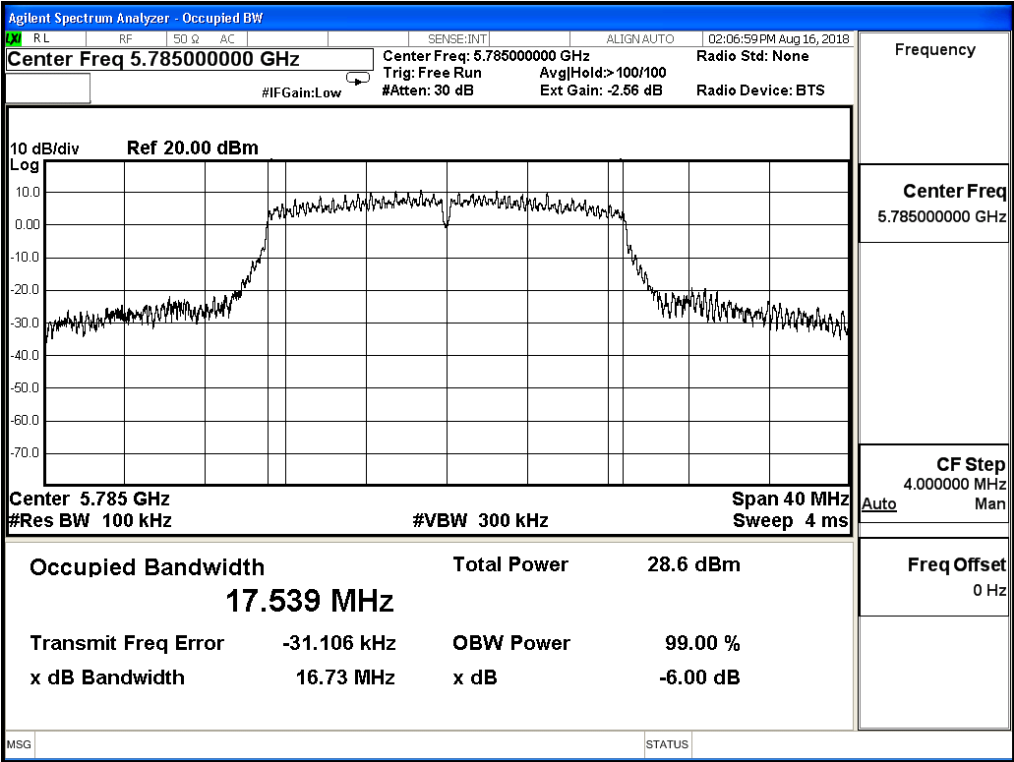
IEEE 802.11n_20M(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.540	≥ 0.5	Pass
157	5785	16.730	≥ 0.5	Pass
165	5825	16.330	≥ 0.5	Pass

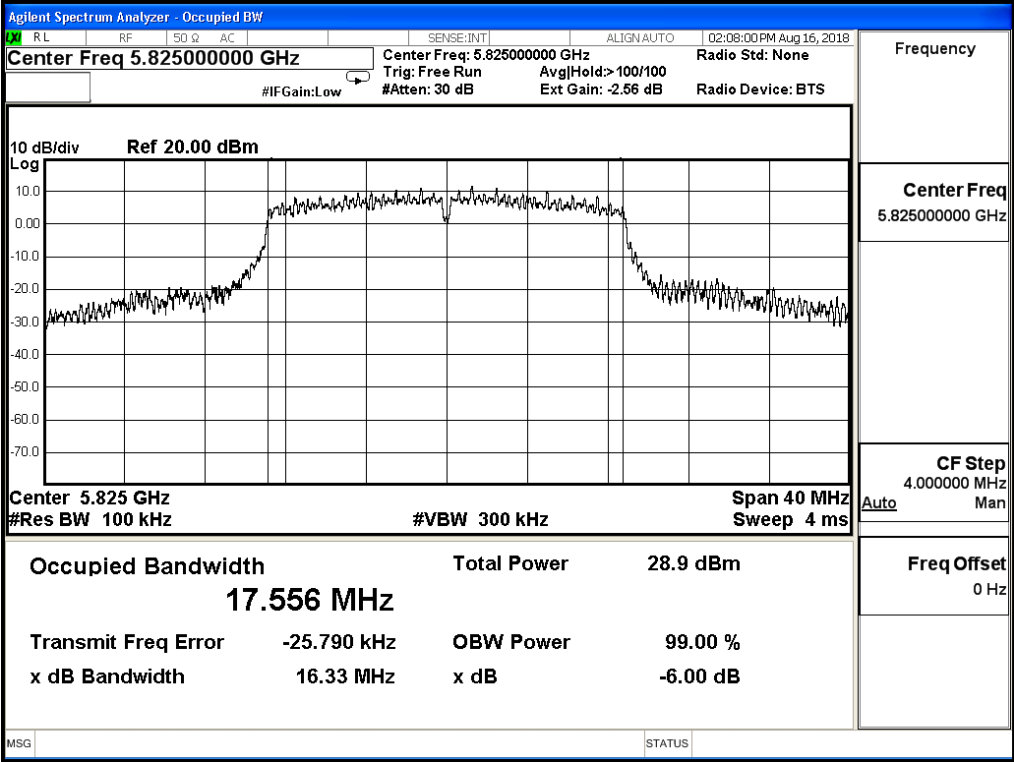
Channel 149 (5745MHz)



Channel 157 (5785MHz)



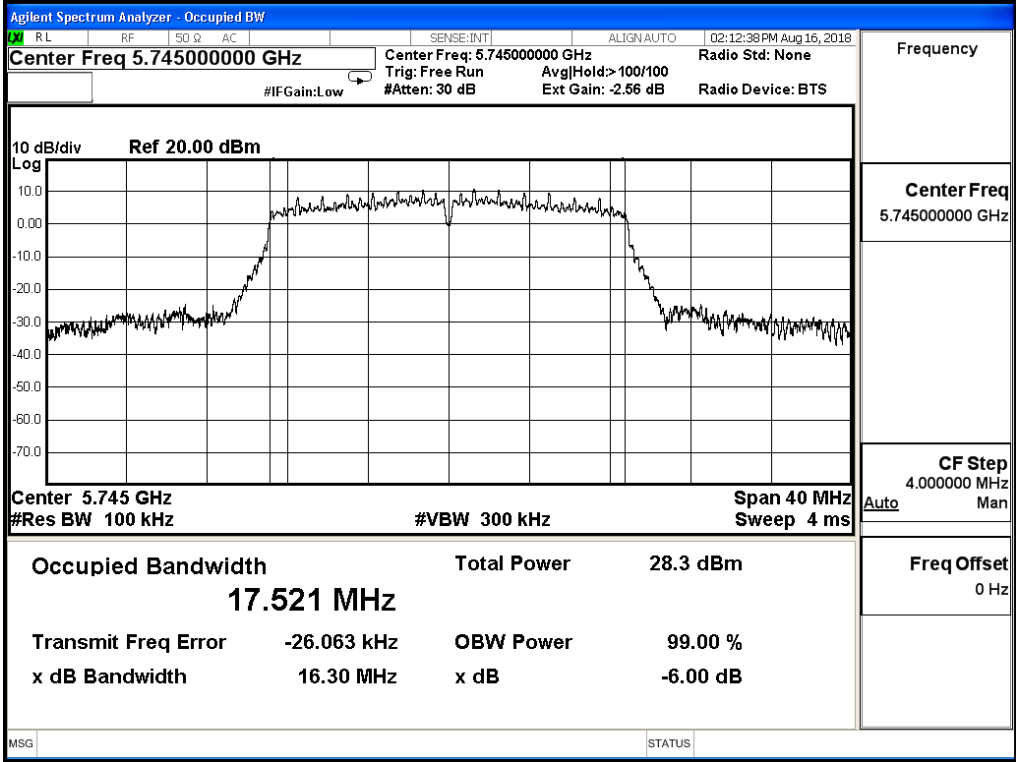
Channel 165 (5825MHz)



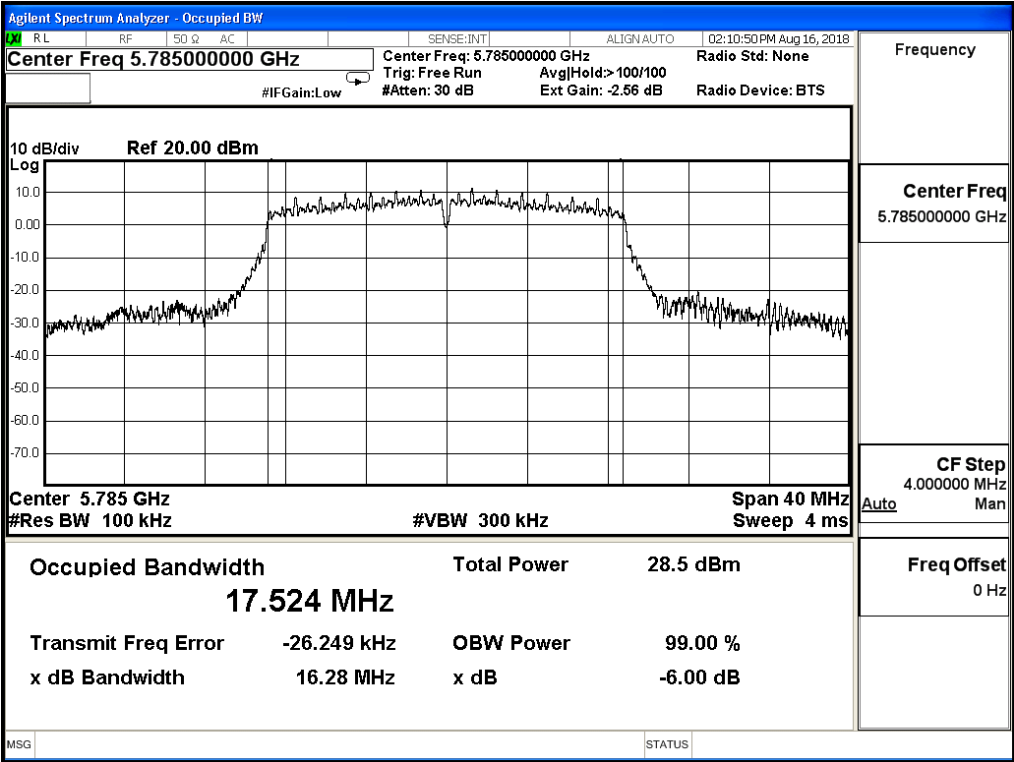
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_20M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	16.300	≥ 0.5	Pass
157	5785	16.280	≥ 0.5	Pass
165	5825	16.310	≥ 0.5	Pass

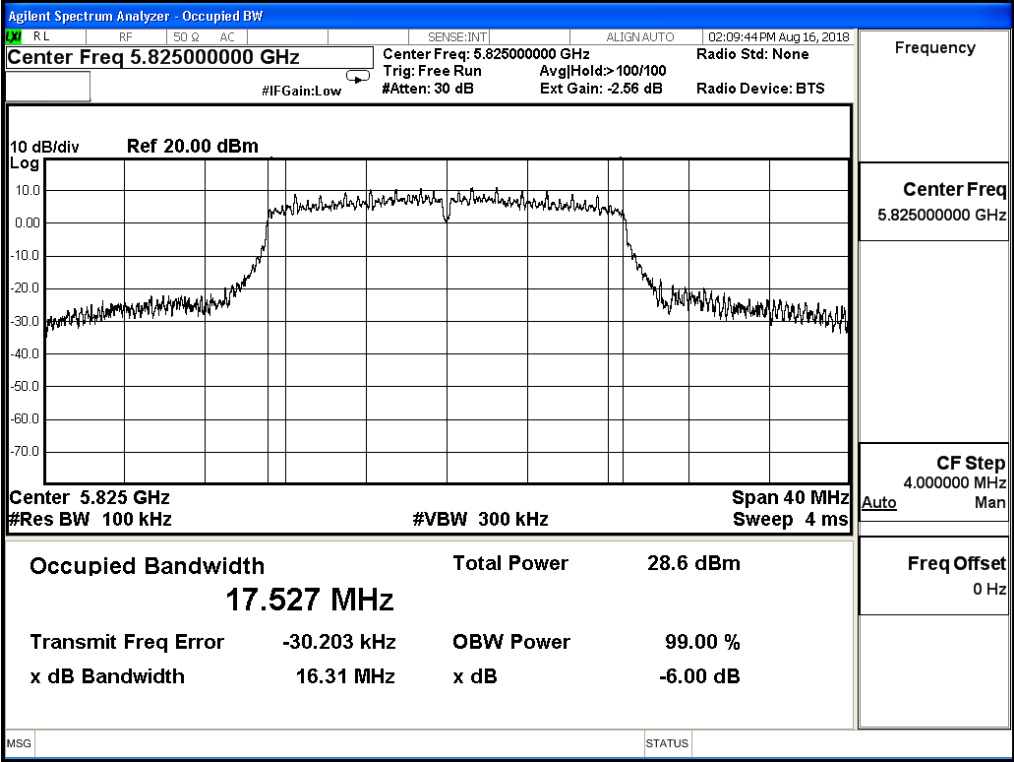
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

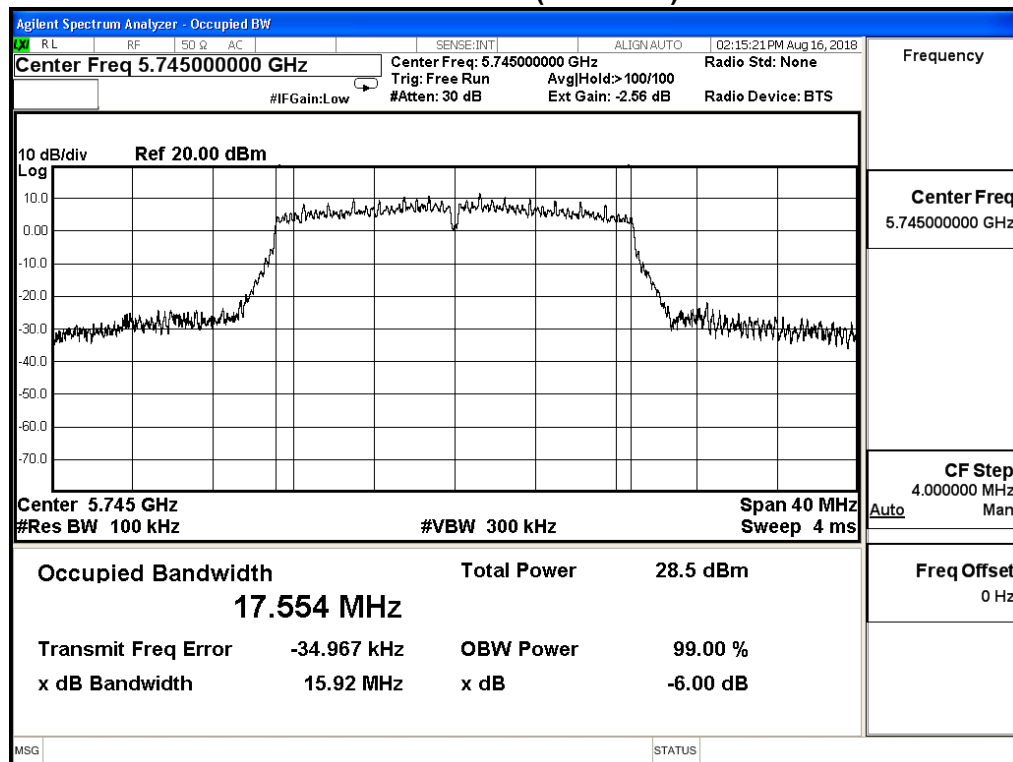


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

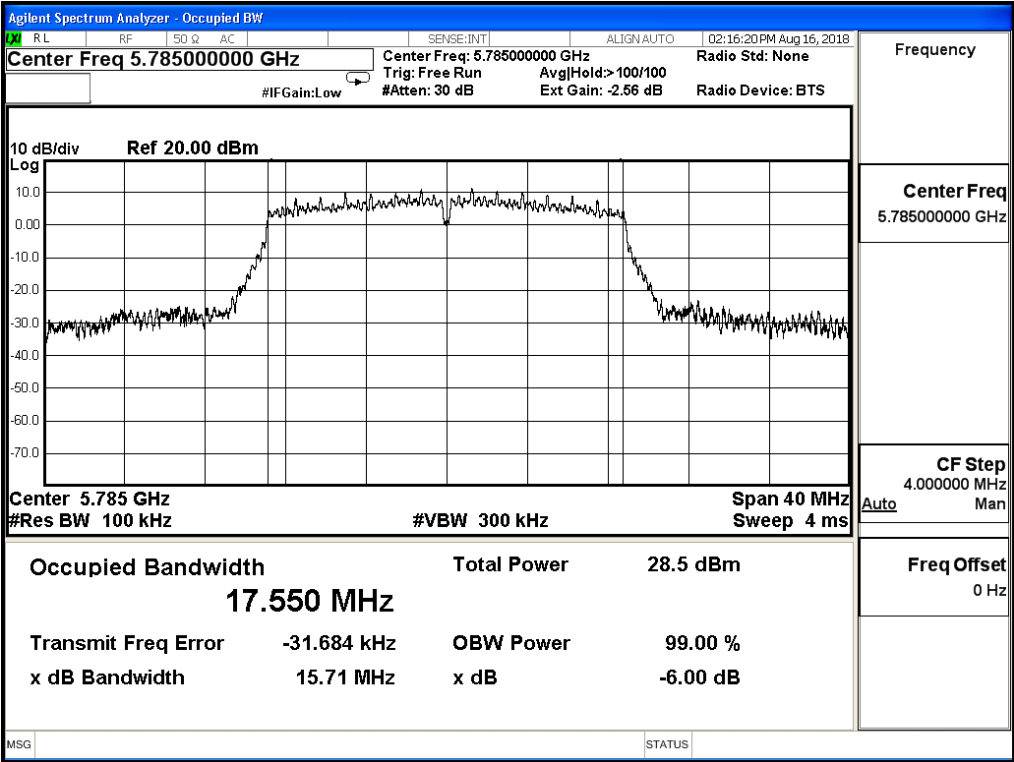
IEEE 802.11n_20M(ANT 3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
149	5745	15.920	≥ 0.5	Pass
157	5785	15.710	≥ 0.5	Pass
165	5825	16.270	≥ 0.5	Pass

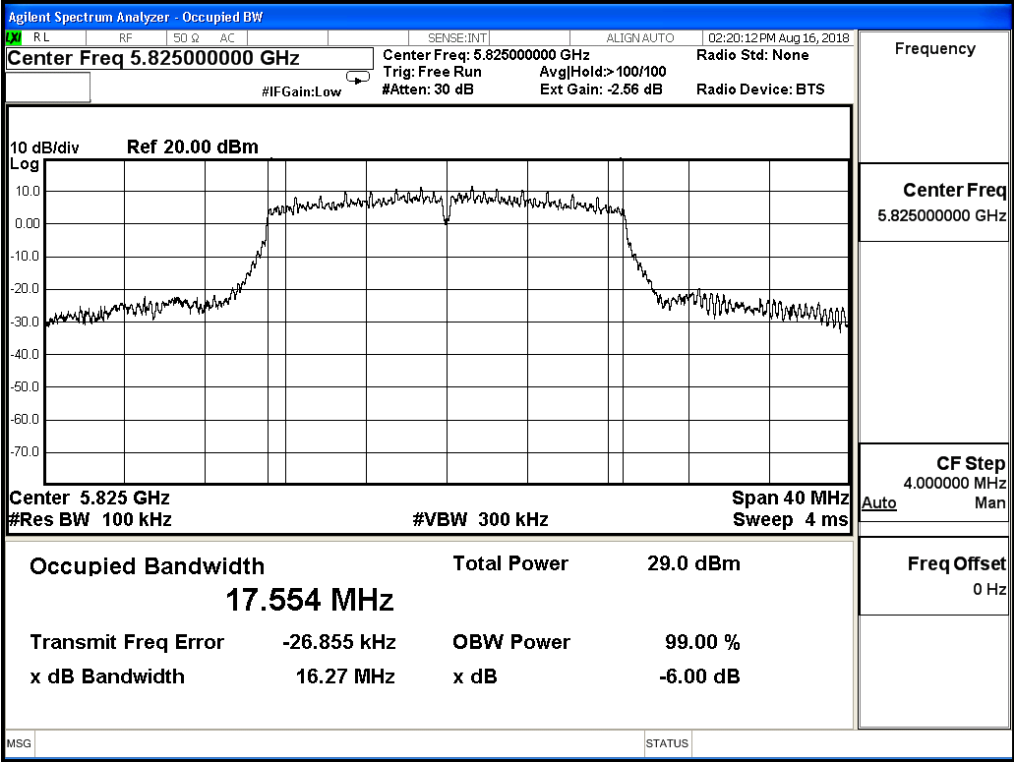
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

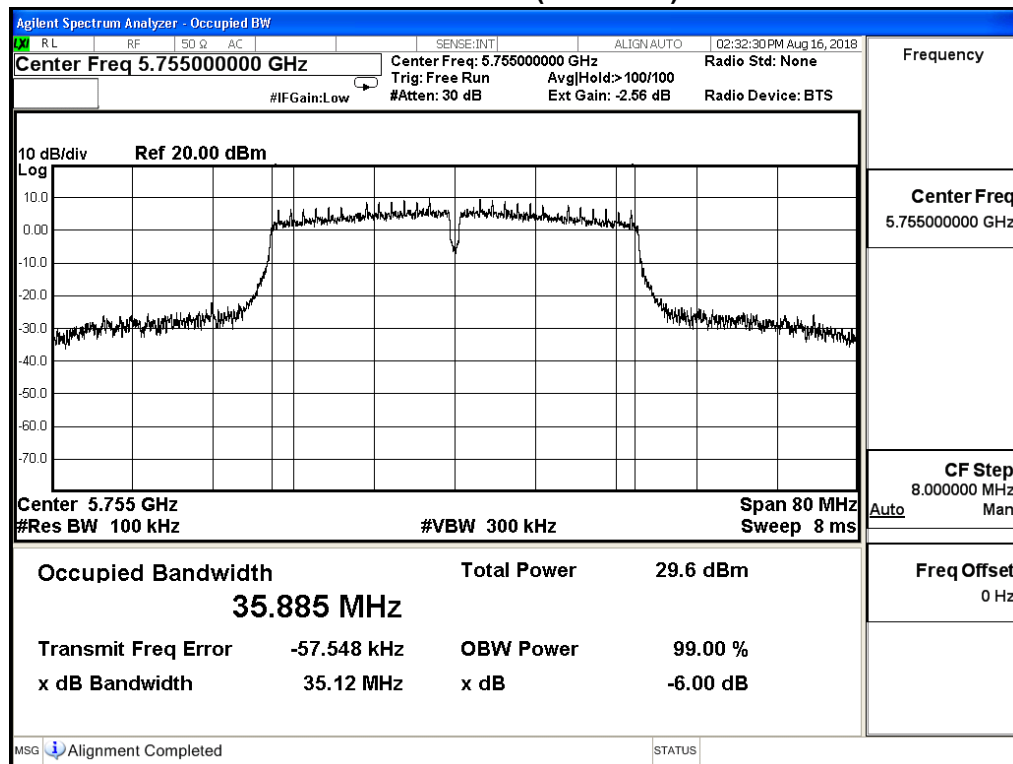


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

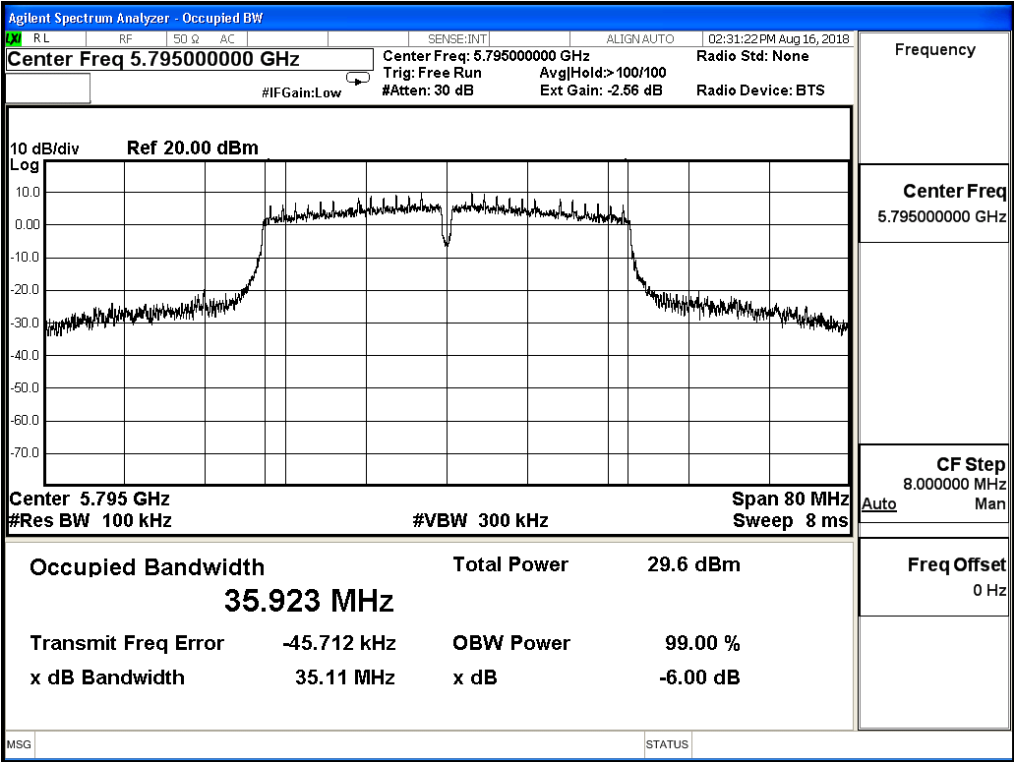
IEEE 802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.120	≥ 0.5	Pass
159	5795	35.110	≥ 0.5	Pass

Channel 151 (5755MHz)



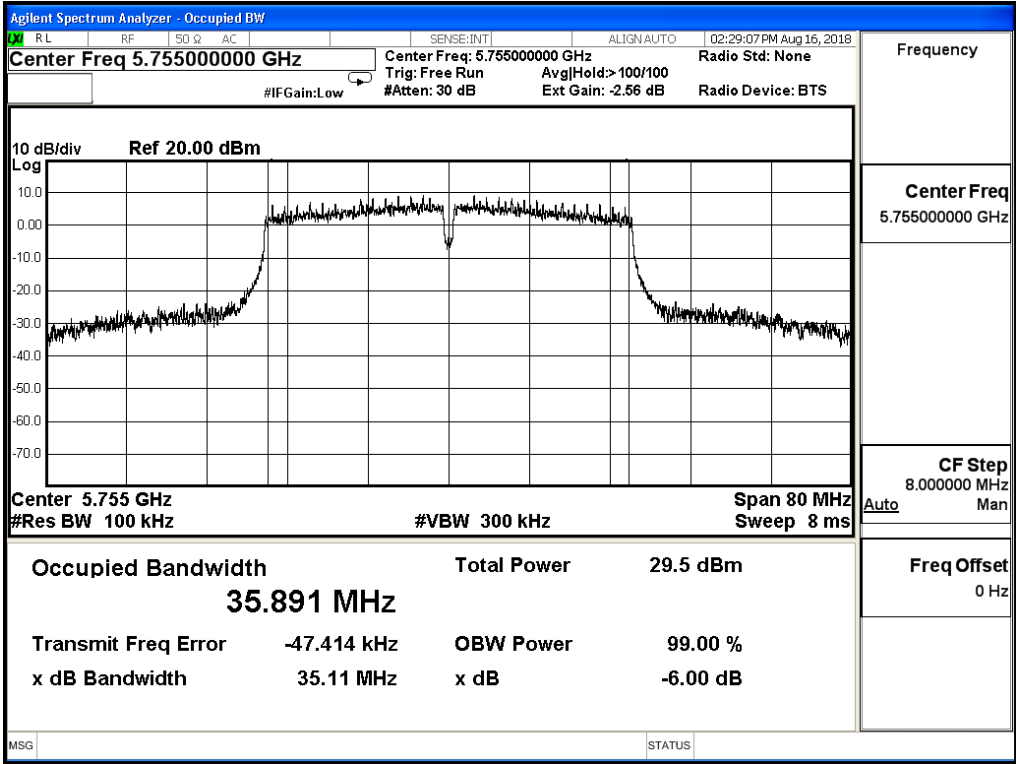
Channel 159 (5795MHz)



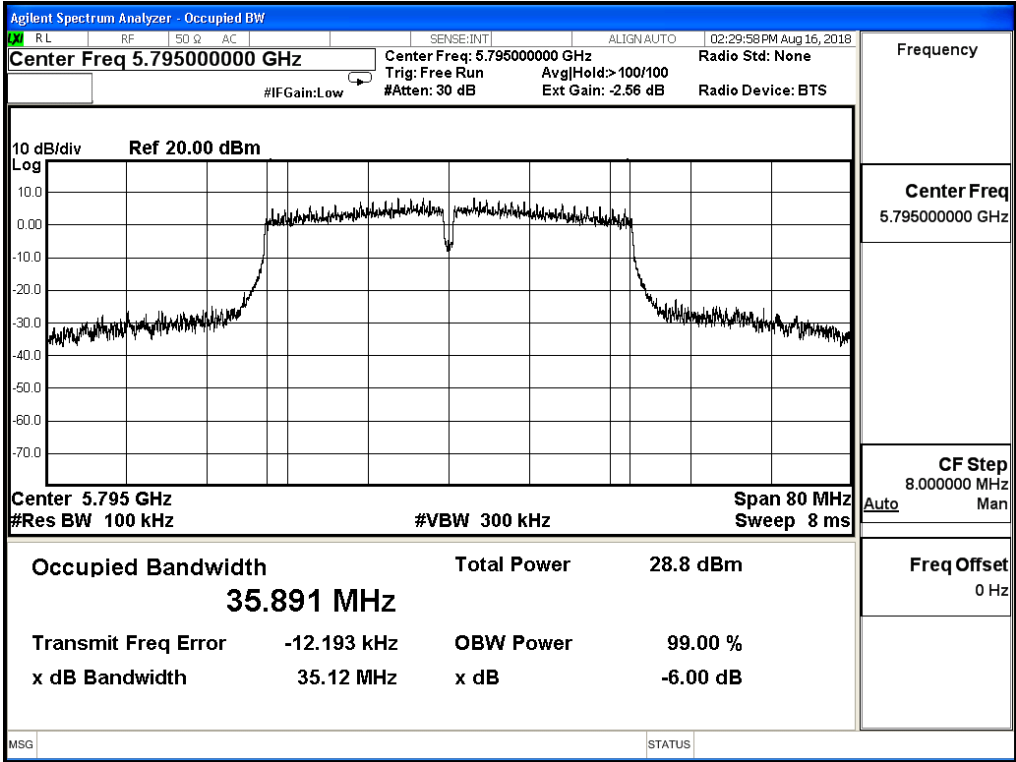
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.110	≥ 0.5	Pass
159	5795	35.120	≥ 0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

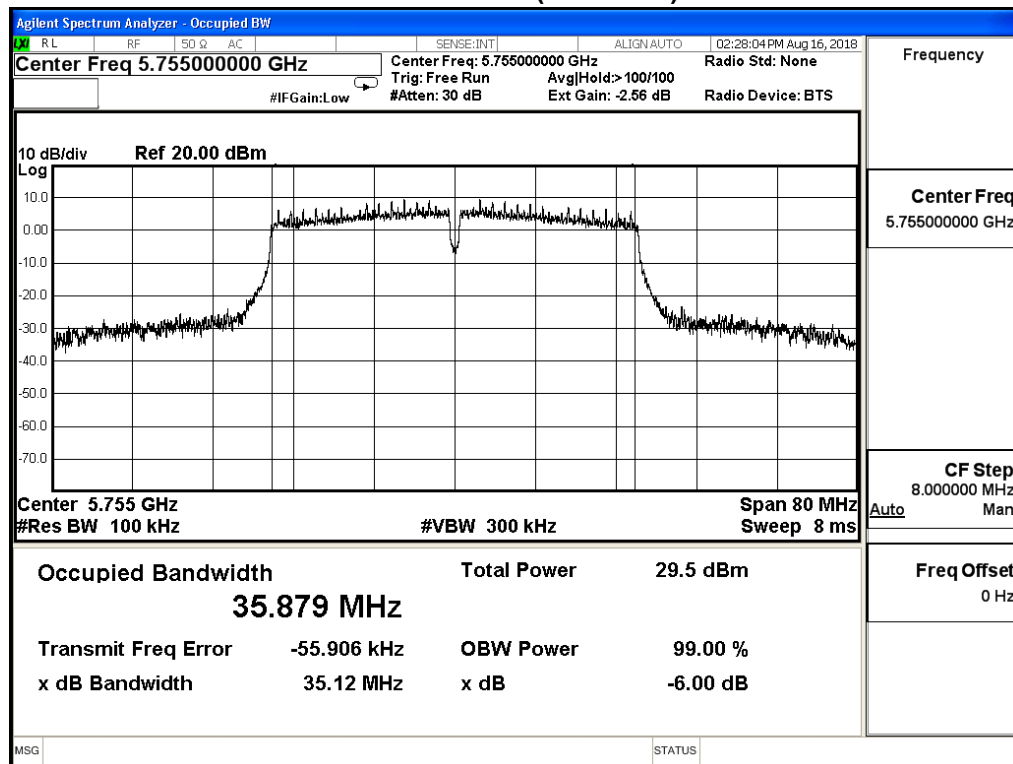


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

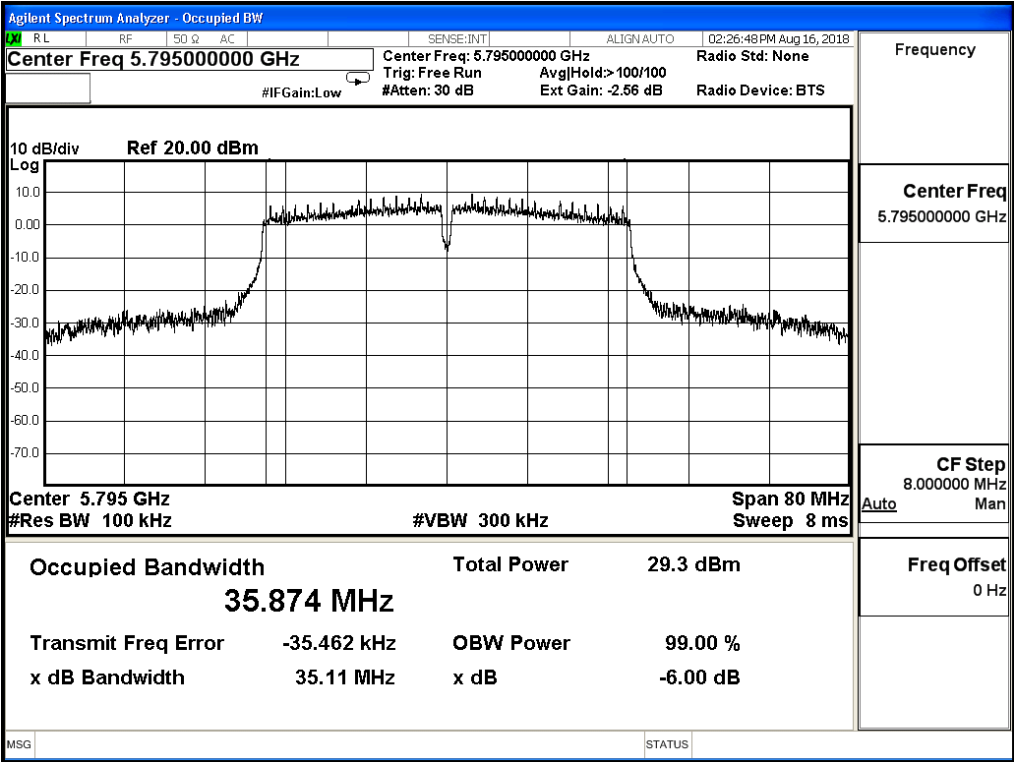
IEEE 802.11n_40M(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.120	≥ 0.5	Pass
159	5795	35.110	≥ 0.5	Pass

Channel 151 (5755MHz)



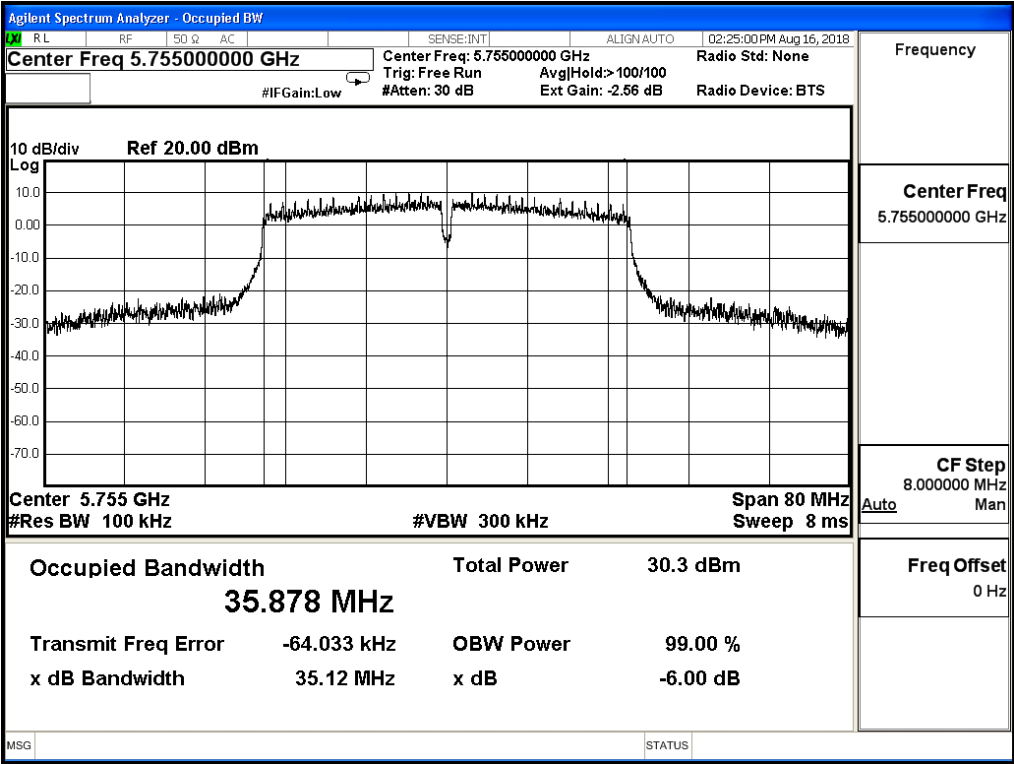
Channel 159 (5795MHz)



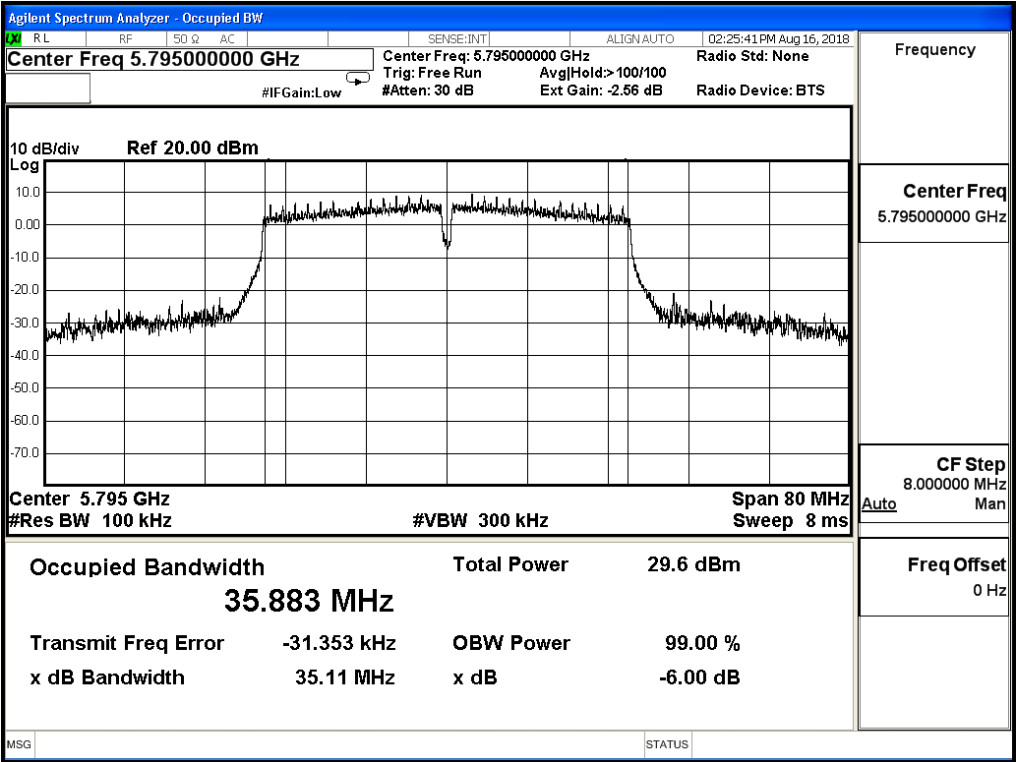
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n_40M(ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
151	5755	35.120	≥ 0.5	Pass
159	5795	35.110	≥ 0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

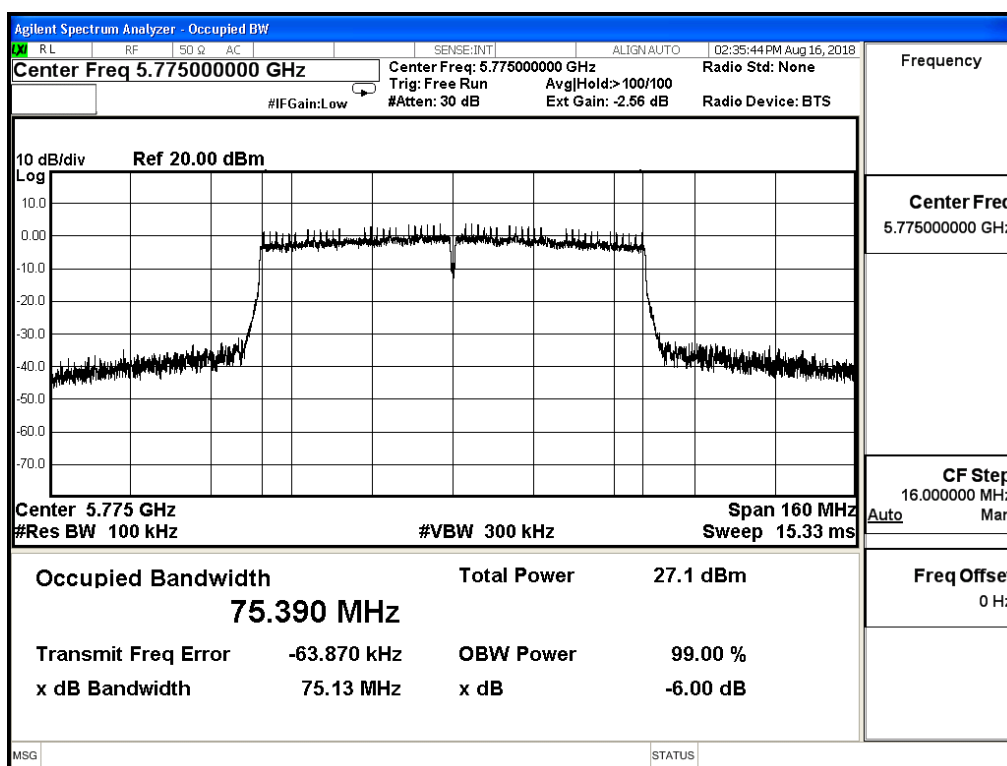


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.130	≥ 0.5	Pass

Channel 155 (5775MHz)

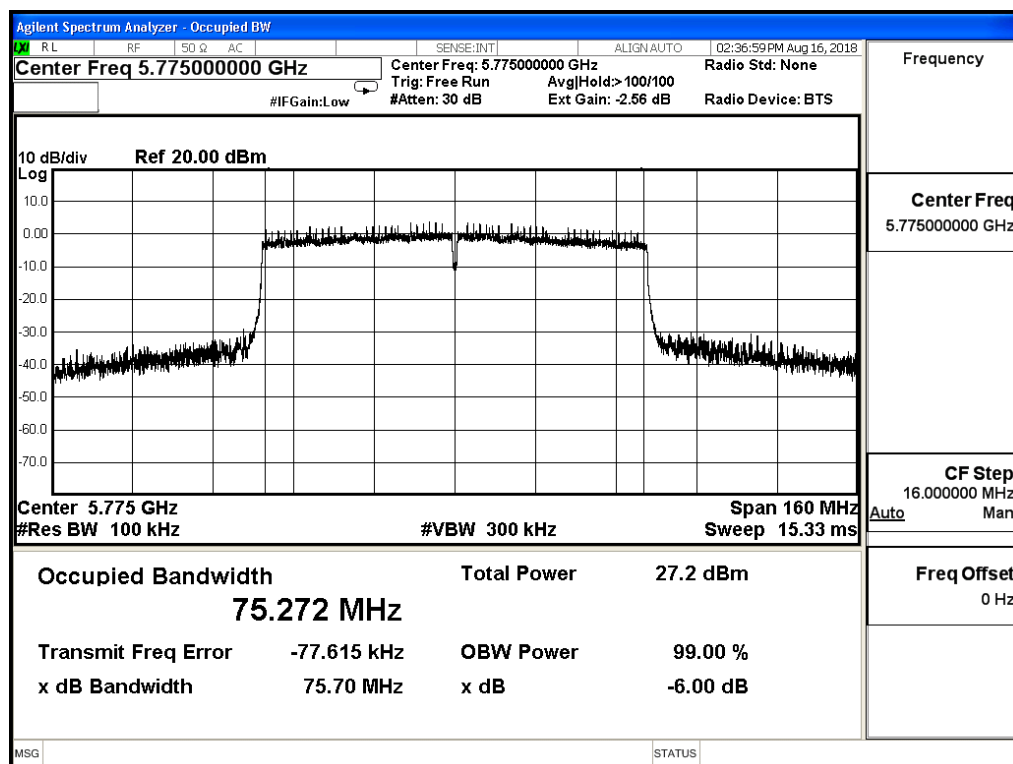


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.700	≥ 0.5	Pass

Channel 155 (5775MHz)

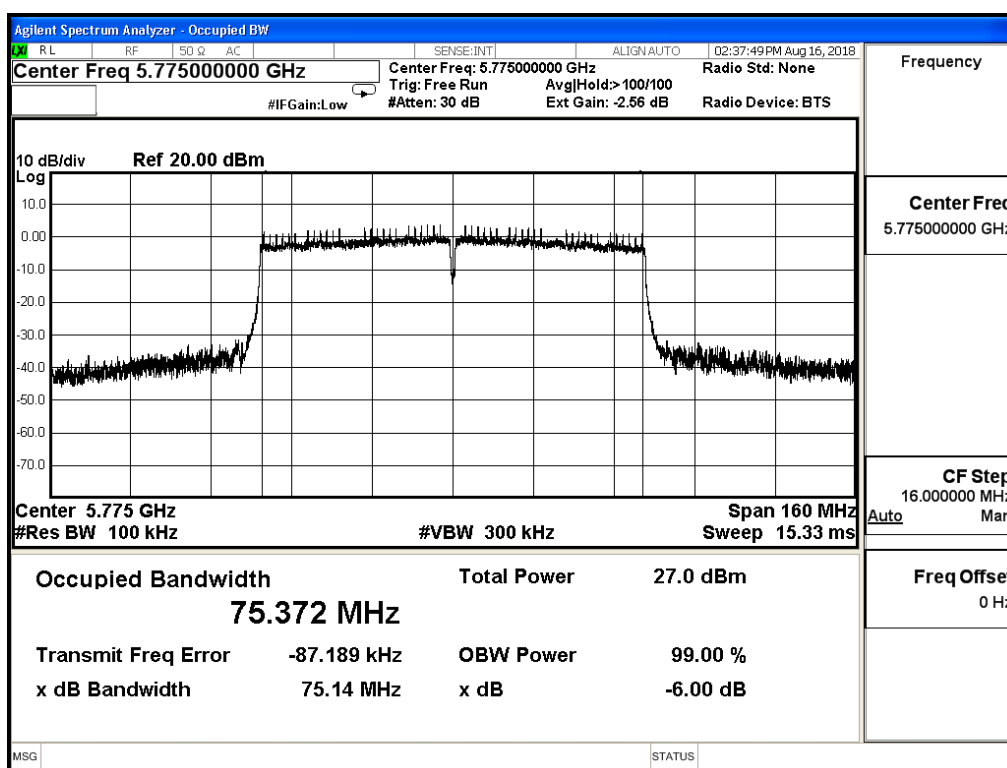


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M(ANT 2)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.140	≥ 0.5	Pass

Channel 155 (5775MHz)

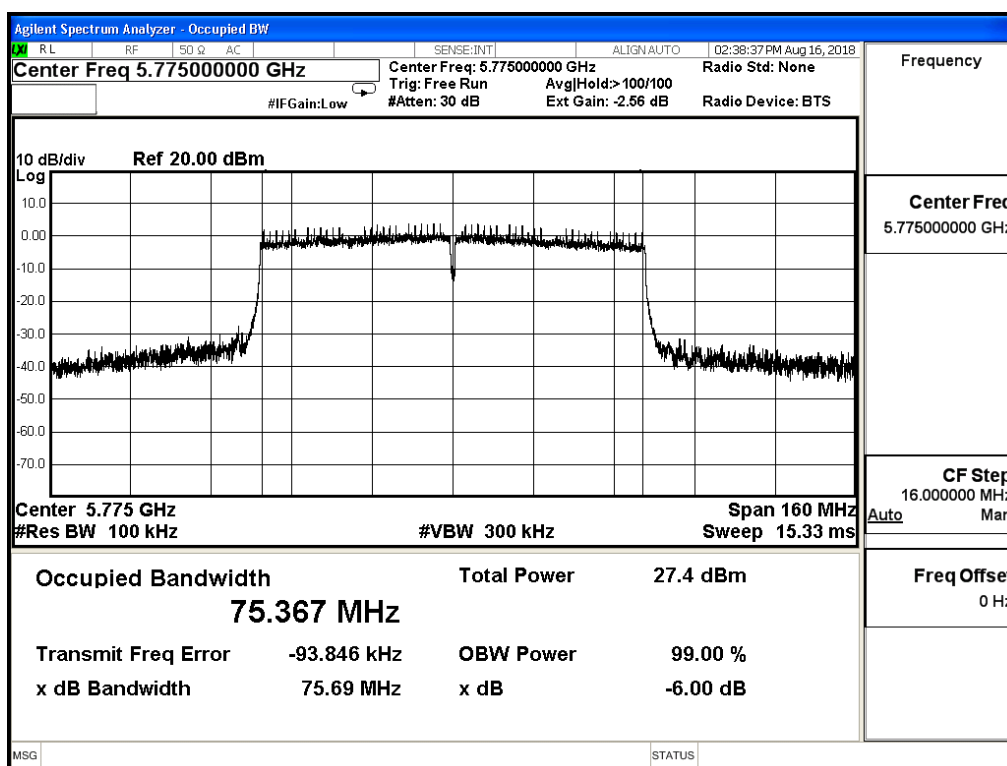


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	佔用頻帶寬度(DTS)		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac_80M(ANT 3)

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
155	5775	75.690	≥ 0.5	Pass

Channel 155 (5775MHz)



7. 峰值功率頻譜密度

7.1. 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 4.7.3 節
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。

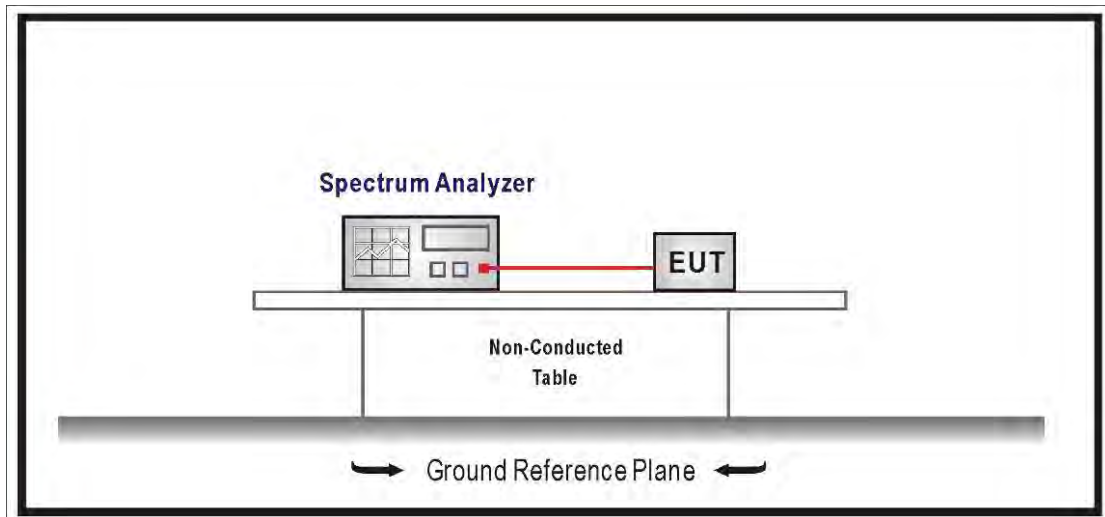
使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (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。

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。

7.2. 測試架構圖



7.3. 測試結果

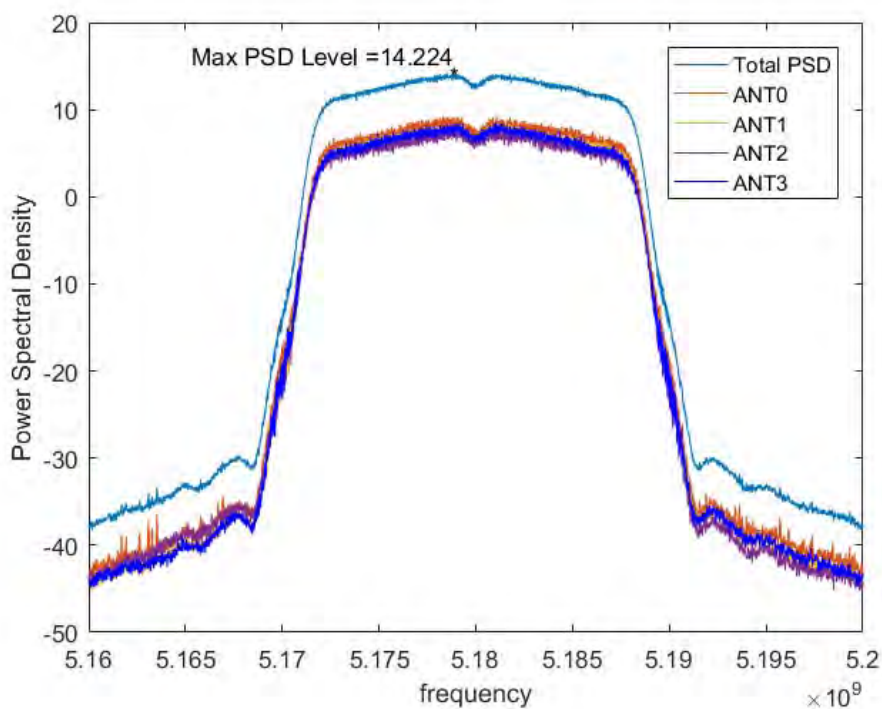
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a (ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	14.224	≤ 14.749	Pass
44	5220	14.424	≤ 14.749	Pass
48	5240	14.674	≤ 14.749	Pass

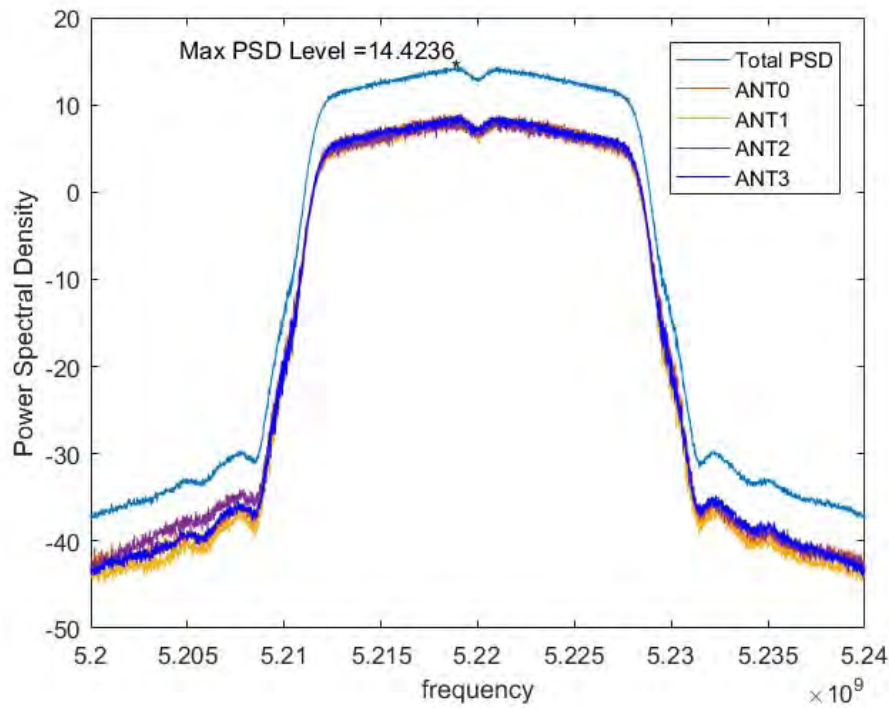
Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

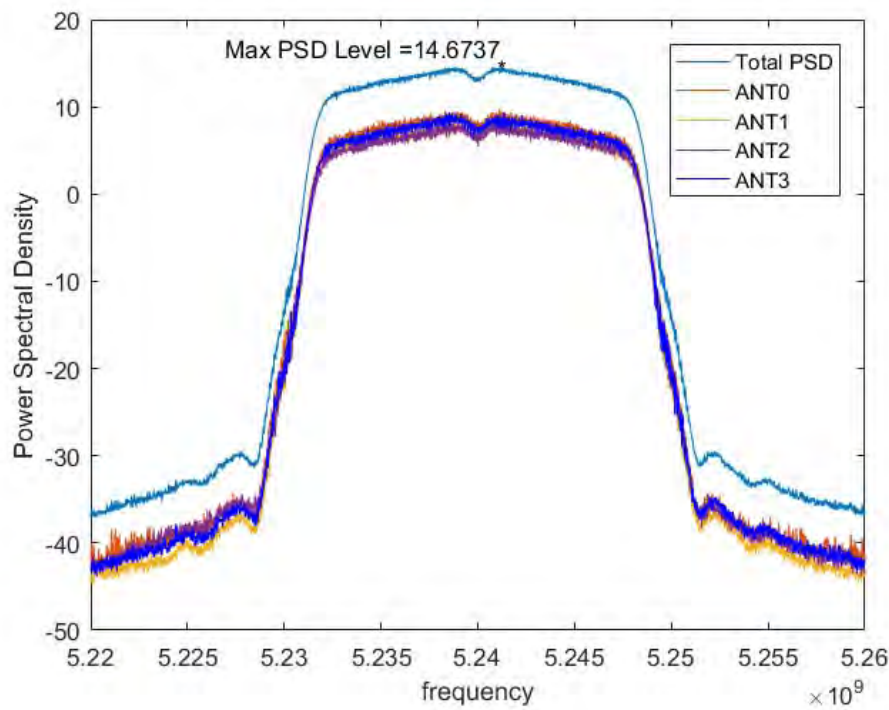
Channel 36



Channel 44



Channel 48



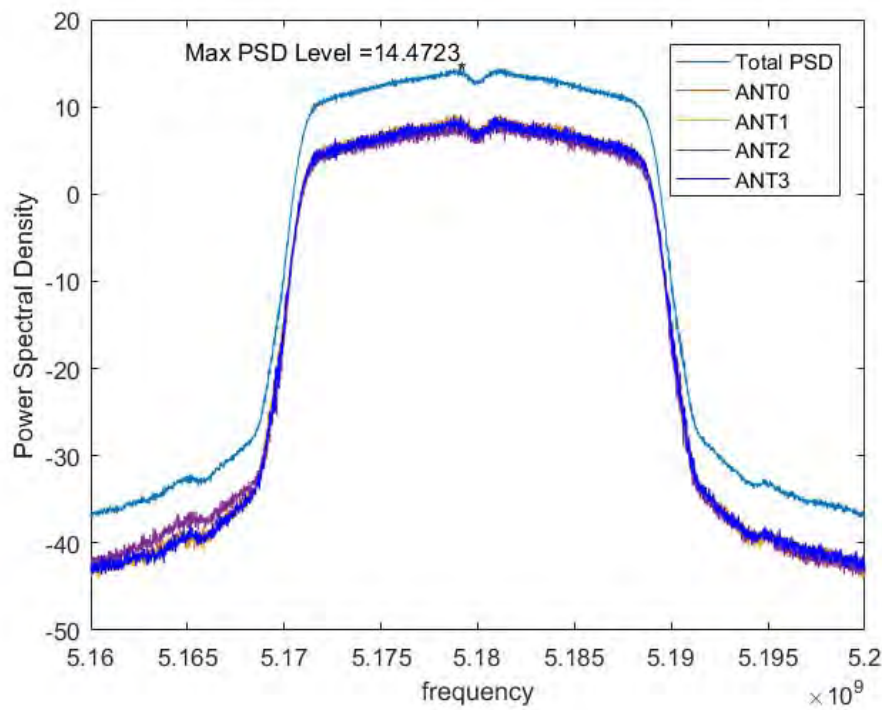
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n(20MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	14.472	≤ 14.749	Pass
44	5220	14.711	≤ 14.749	Pass
48	5240	14.624	≤ 14.749	Pass

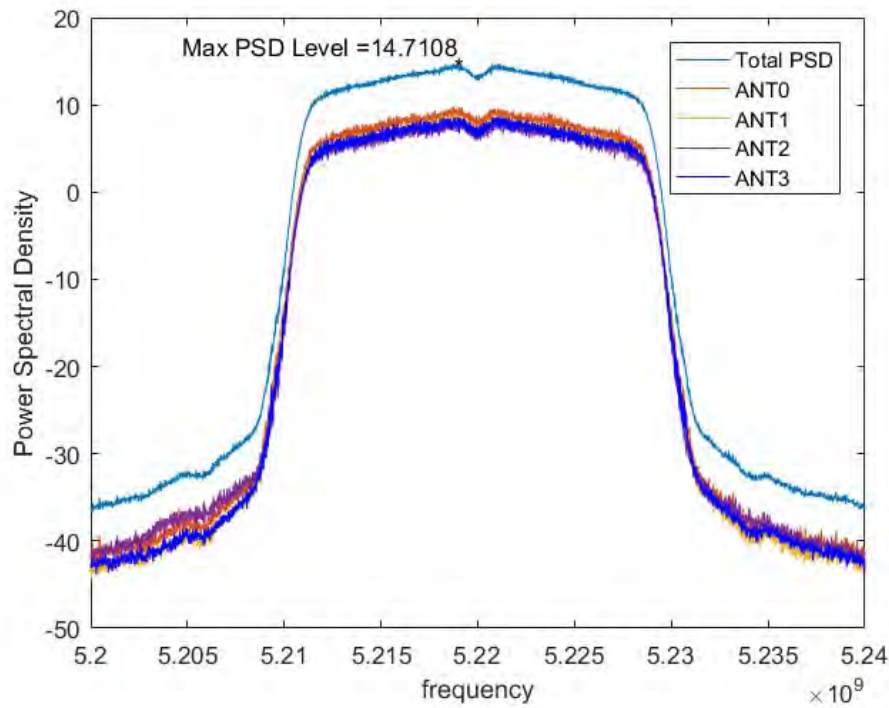
Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

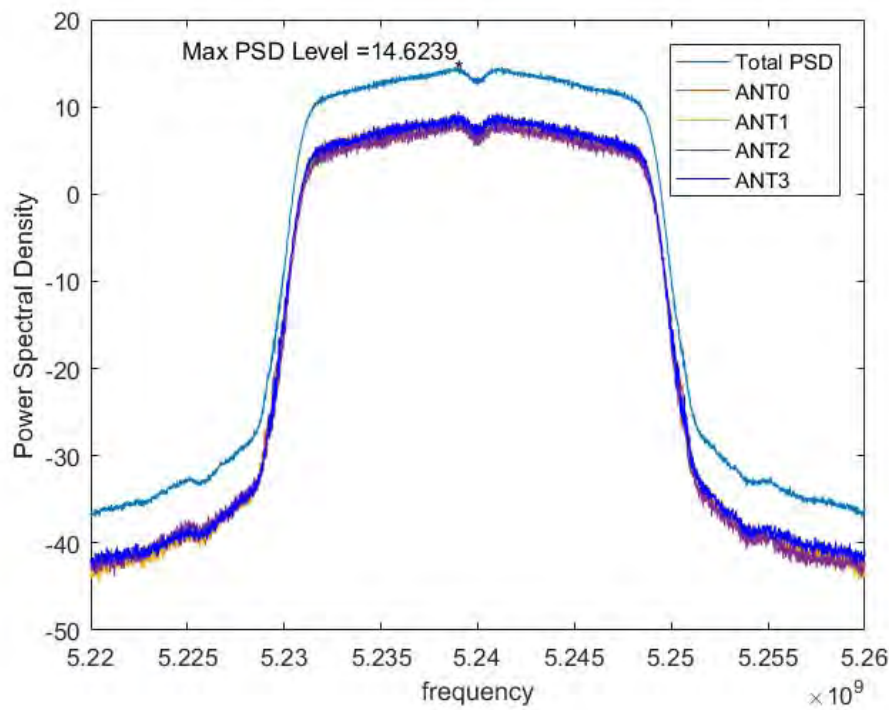
Channel 36



Channel 44



Channel 48



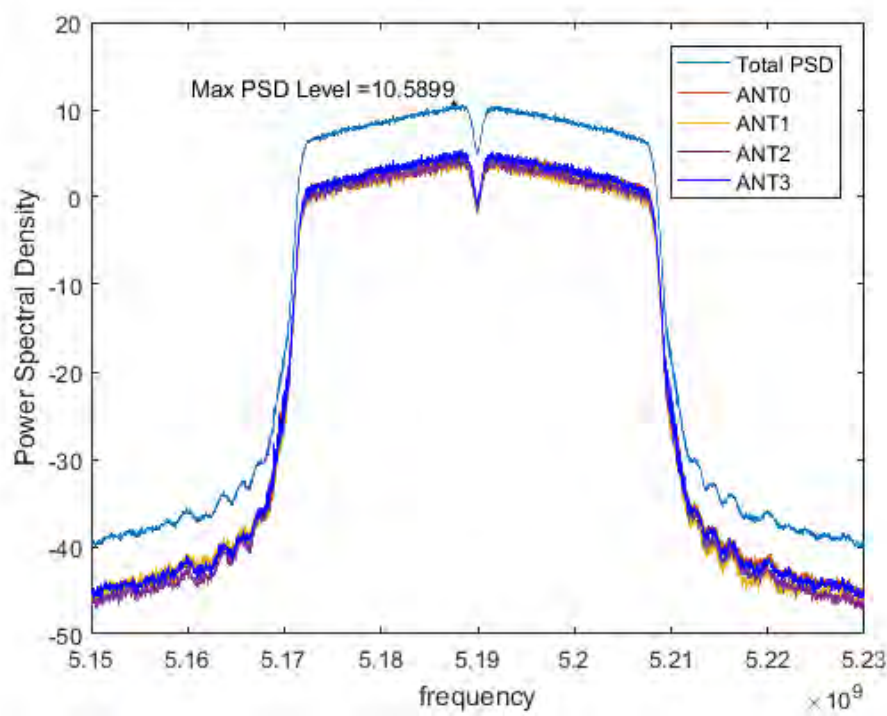
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n(40MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	10.590	≤ 14.749	Pass
46	5230	10.892	≤ 14.749	Pass

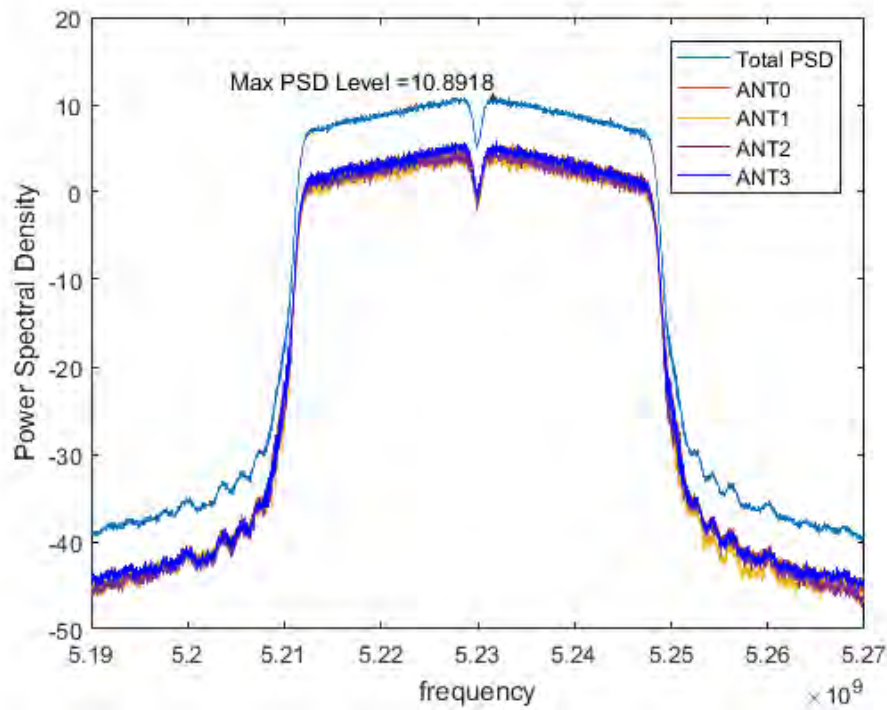
Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

Channel 38



Channel 46



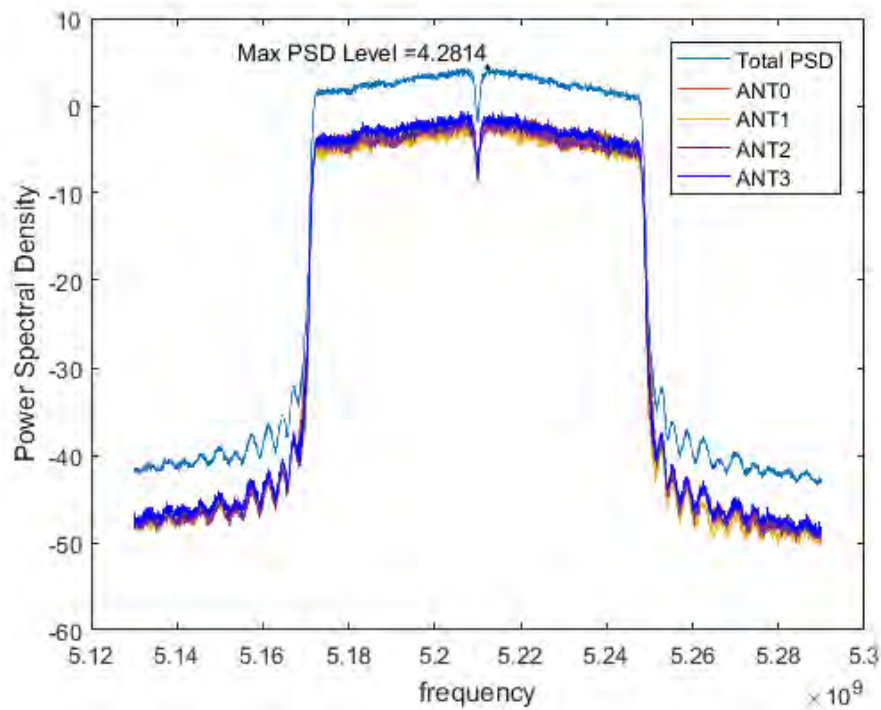
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac(80MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	4.281	≤ 14.749	Pass

Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

Channel 42



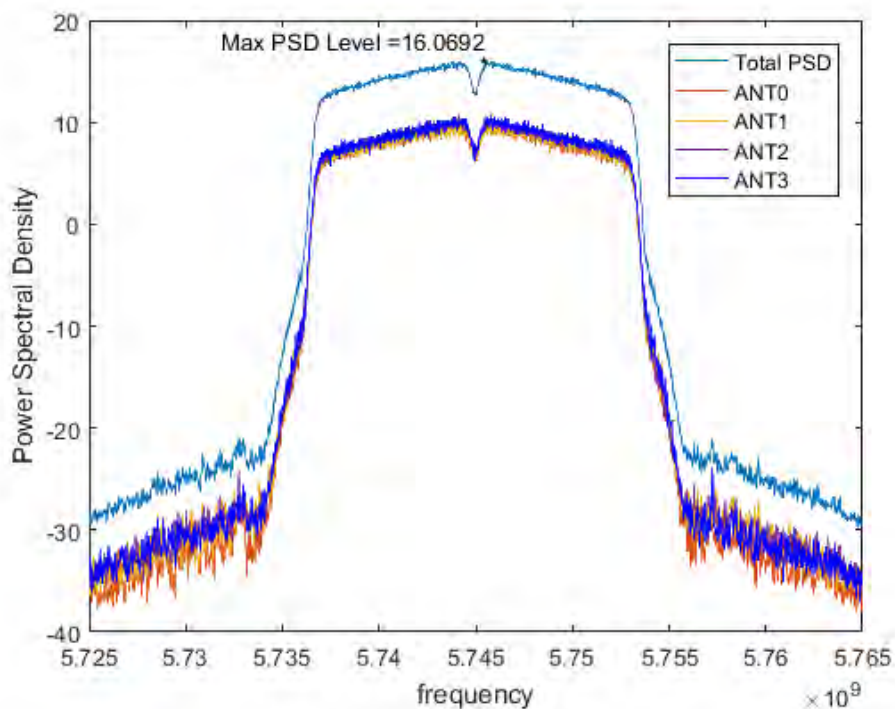
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11a (ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	16.069	≤ 27.75	Pass
157	5785	16.876	≤ 27.75	Pass
165	5825	17.174	≤ 27.75	Pass

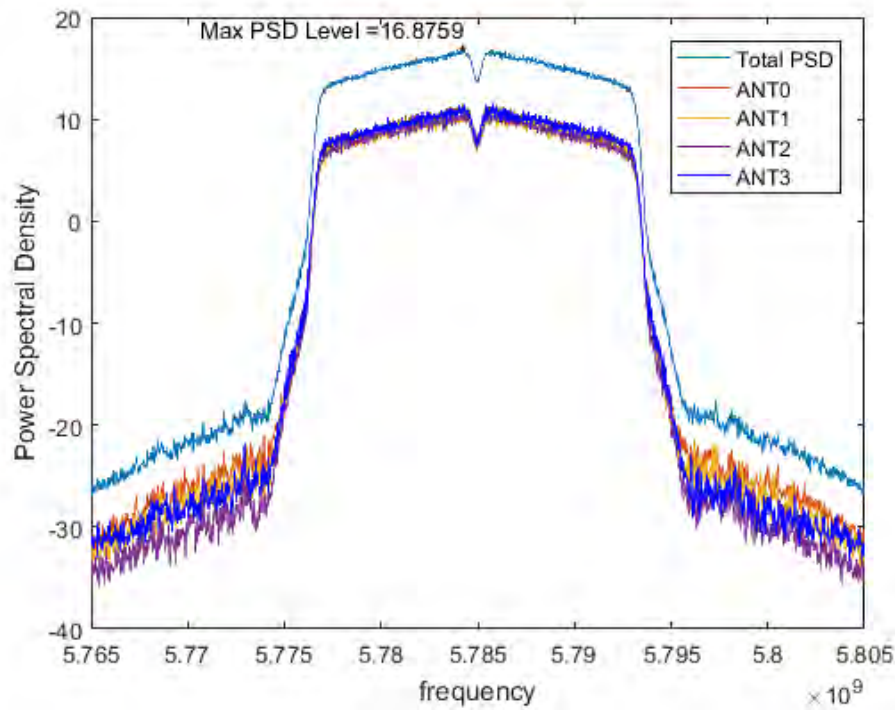
Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

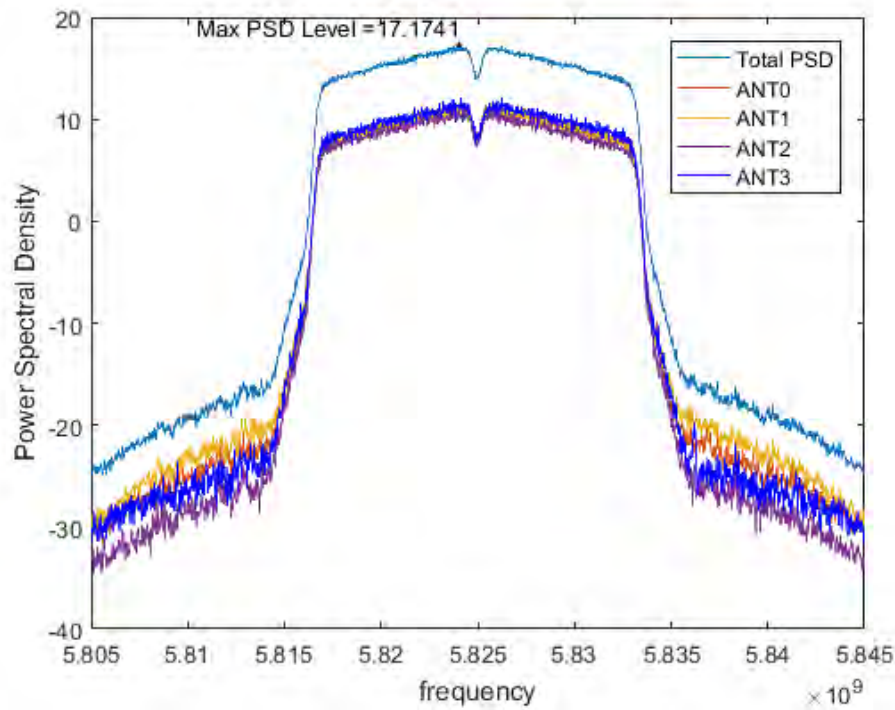
Channel 149



Channel 157



Channel 165



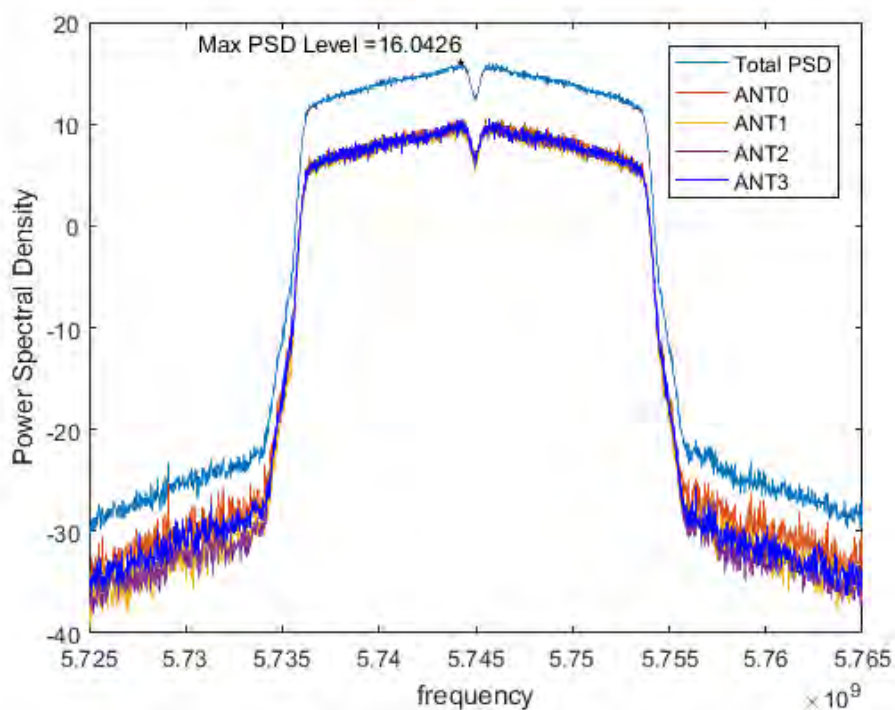
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n(20MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	16.043	≤ 27.75	Pass
157	5785	16.416	≤ 27.75	Pass
165	5825	16.687	≤ 27.75	Pass

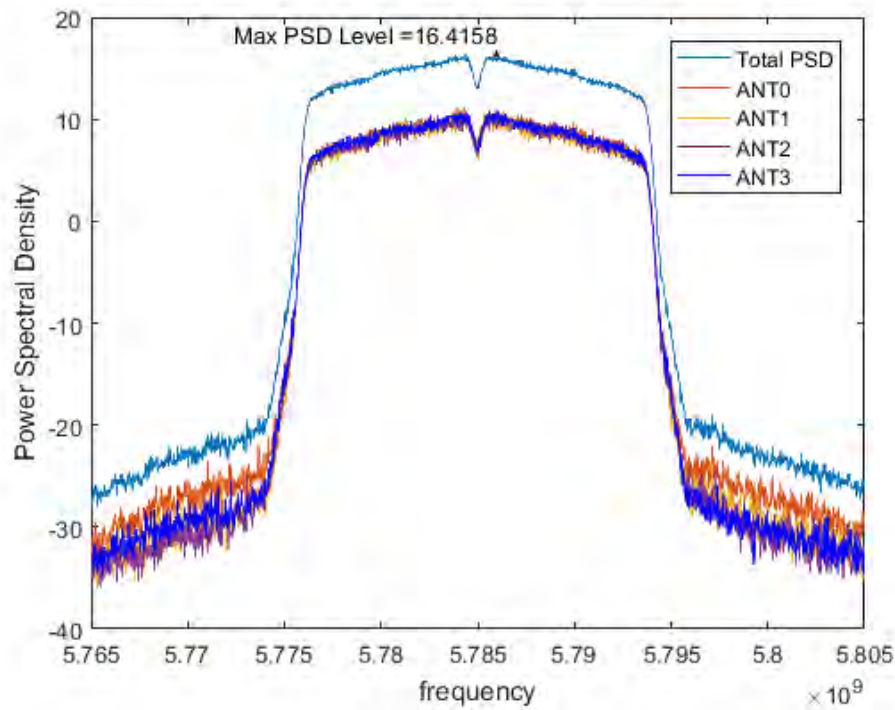
Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

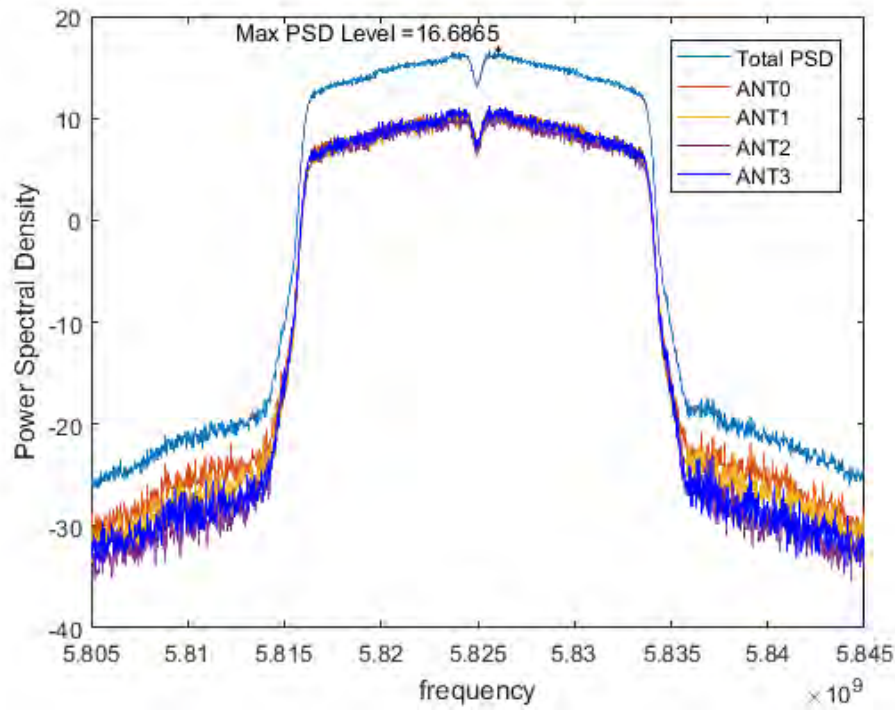
Channel 149



Channel 157



Channel 165



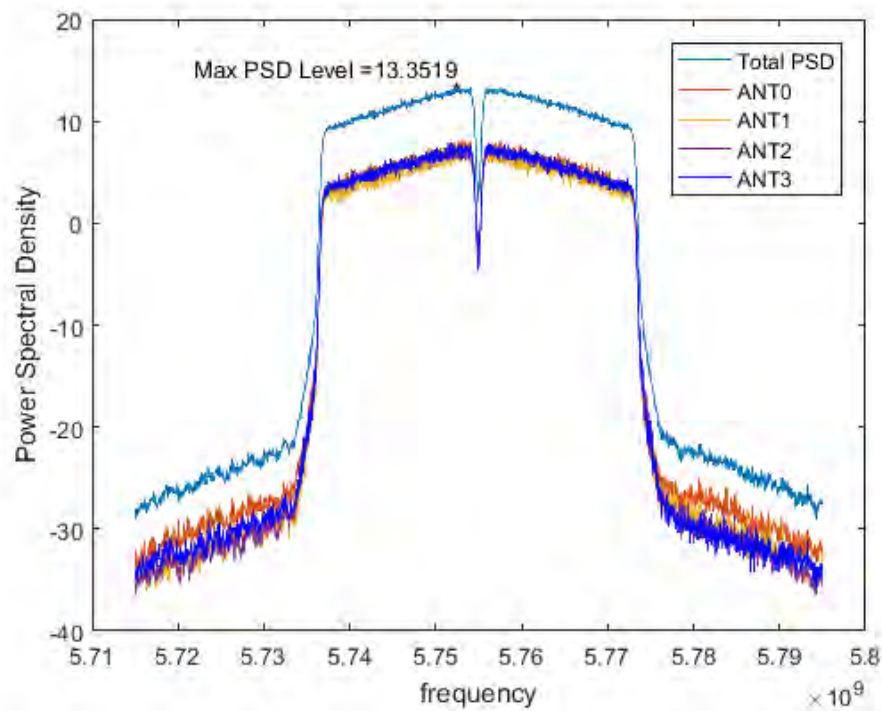
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11n(40MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	13.352	≤ 27.75	Pass
159	5795	13.301	≤ 27.75	Pass

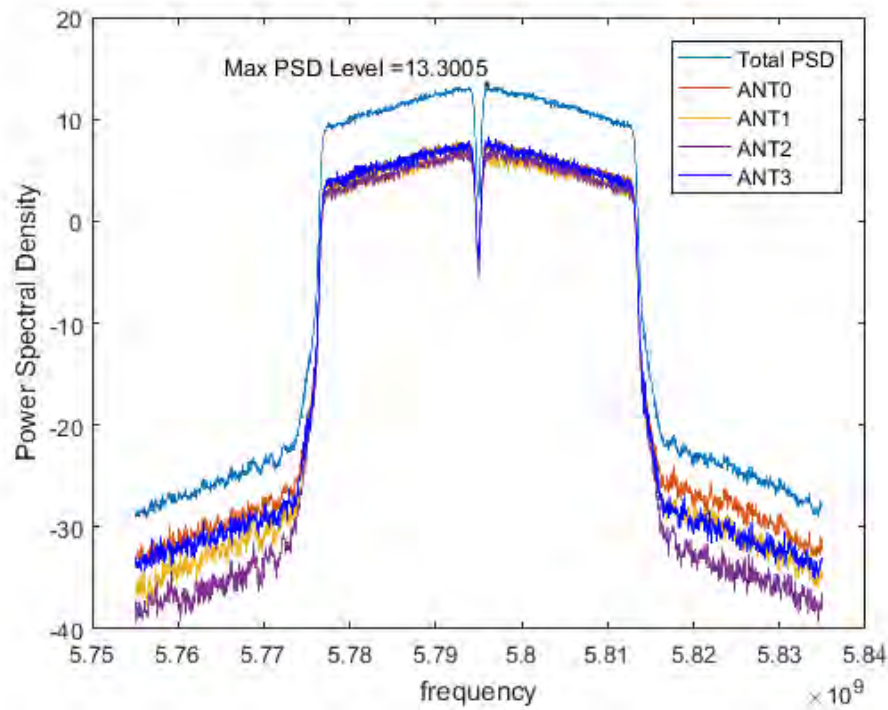
Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

Channel 151



Channel 159



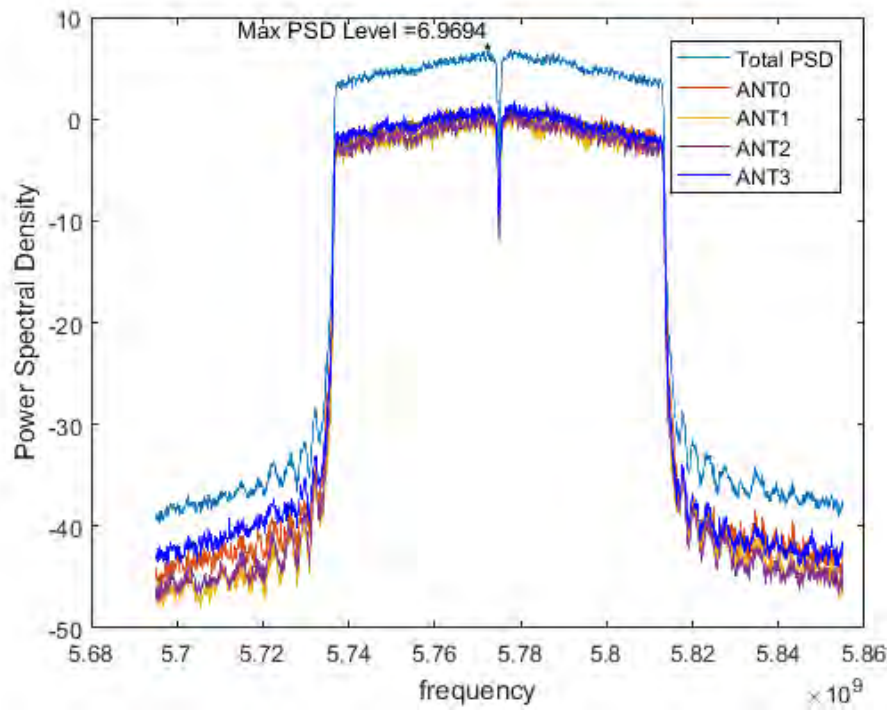
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 1: Transmit Mode_CDD_WA-30P12FU		
測試日期	2018/08/15	測試場地	SR10-H

IEEE 802.11ac(80MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	6.969	≤ 27.75	Pass

Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

Channel 155

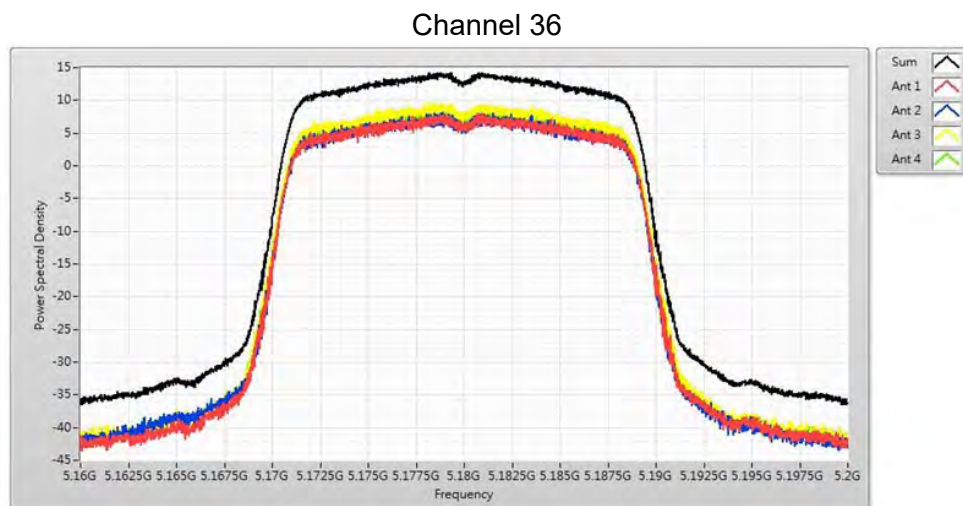


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 2: Transmit Mode_BF_WA-30P12FU		
測試日期	2018/10/23	測試場地	SR10-H

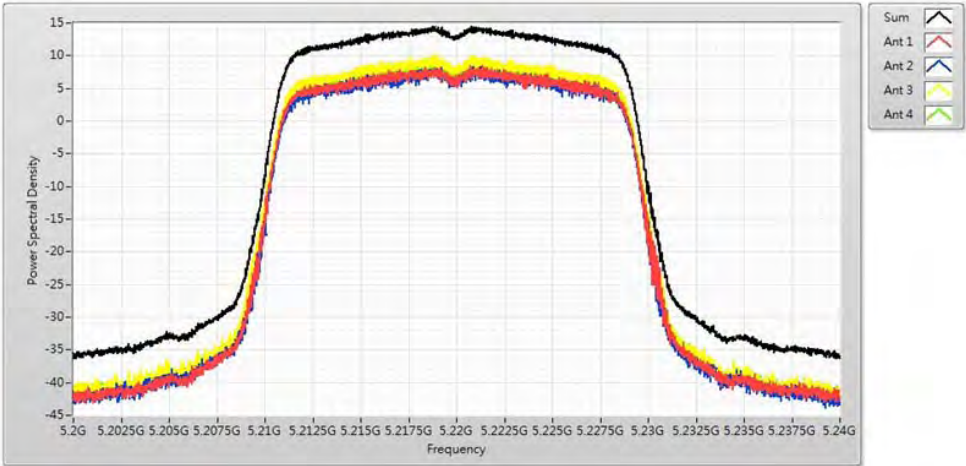
IEEE 802.11n(20MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	14.250	≤ 14.749	Pass
44	5220	14.530	≤ 14.749	Pass
48	5240	14.430	≤ 14.749	Pass

Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

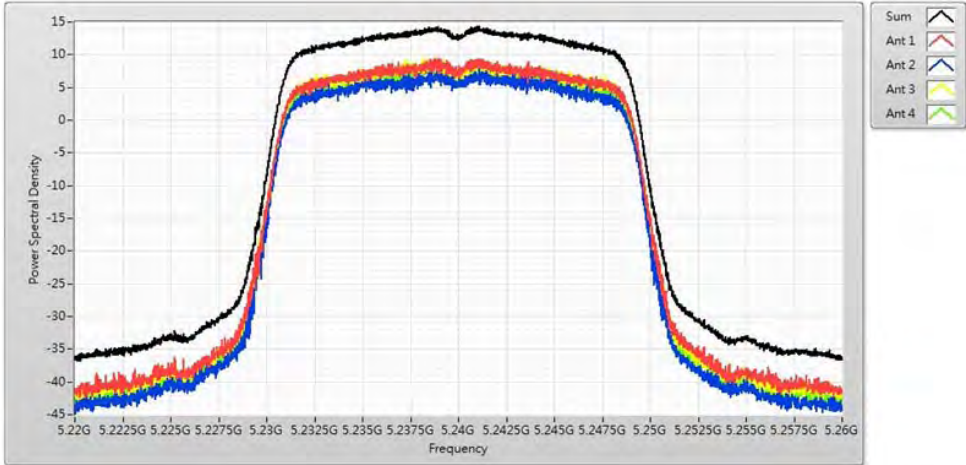
Limit =17dBm-(8.251dBi-6dBi)=14.749dBm



Channel 44



Channel 48



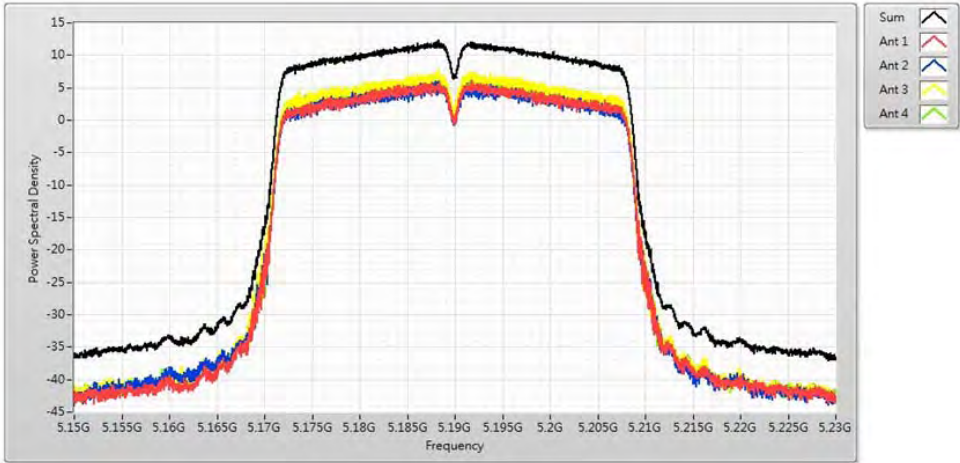
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 2: Transmit Mode _BF_ WA-30P12FU		
測試日期	2018/10/23	測試場地	SR10-H

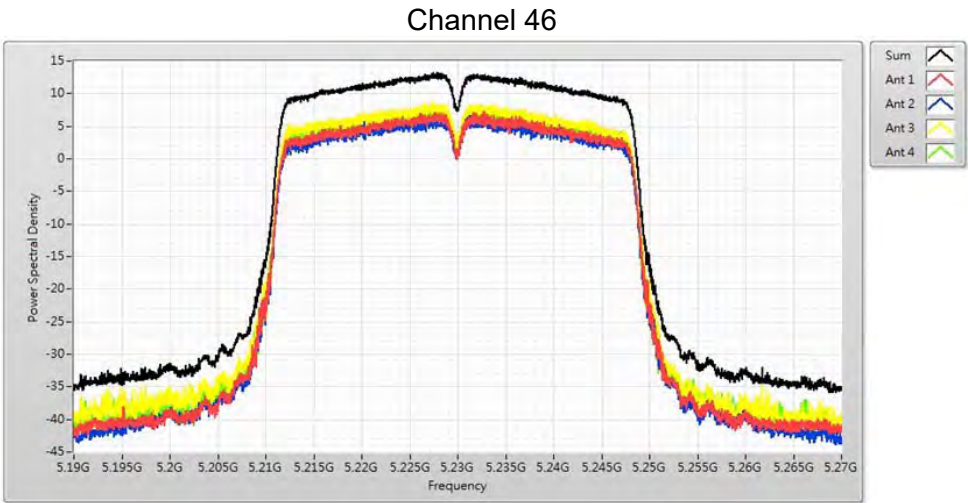
IEEE 802.11n(40MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	12.360	≤ 14.749	Pass
46	5230	13.230	≤ 14.749	Pass

Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

Channel 38





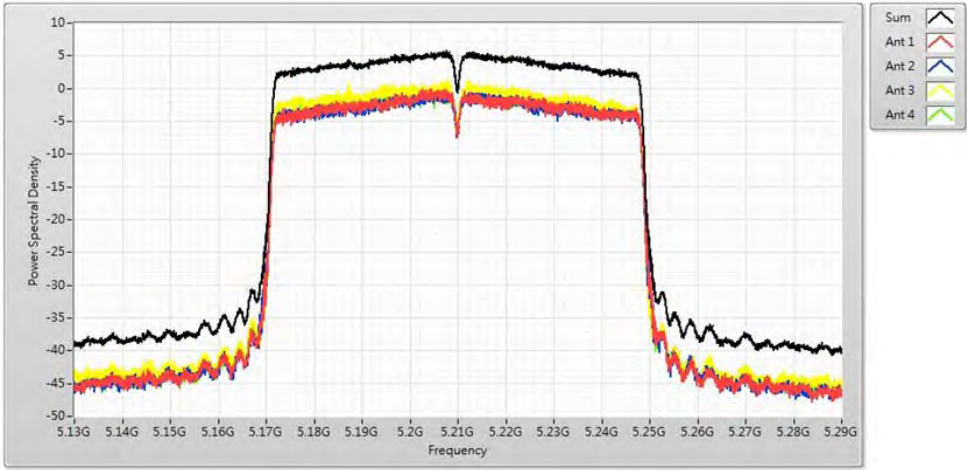
產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 2: Transmit Mode_BF_WA-30P12FU		
測試日期	2018/10/23	測試場地	SR10-H

IEEE 802.11ac(80MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	5.790	≤ 14.749	Pass

Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

Channel 42



產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 2: Transmit Mode_BF_WA-30P12FU		
測試日期	2018/10/23	測試場地	SR10-H

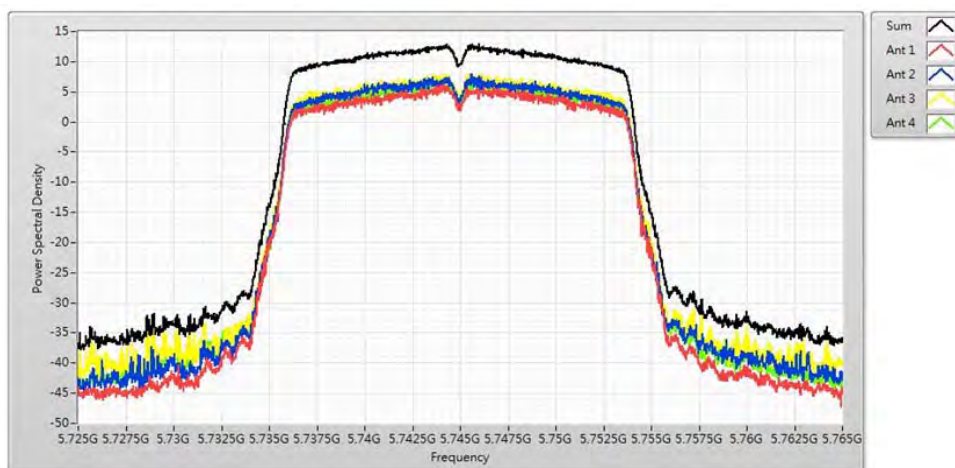
IEEE 802.11n(20MHz)(ANT0+1+2+3)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	12.910	≤ 27.75	Pass
157	5785	14.740	≤ 27.75	Pass
165	5825	14.800	≤ 27.75	Pass

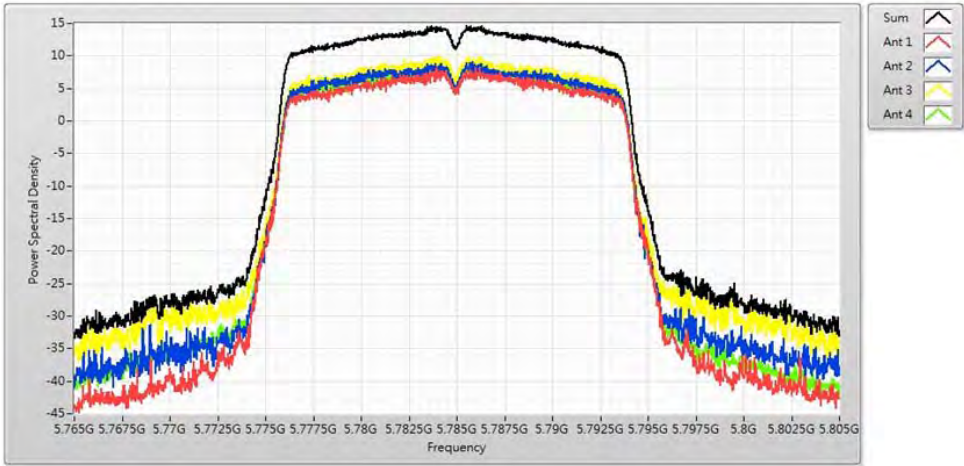
Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

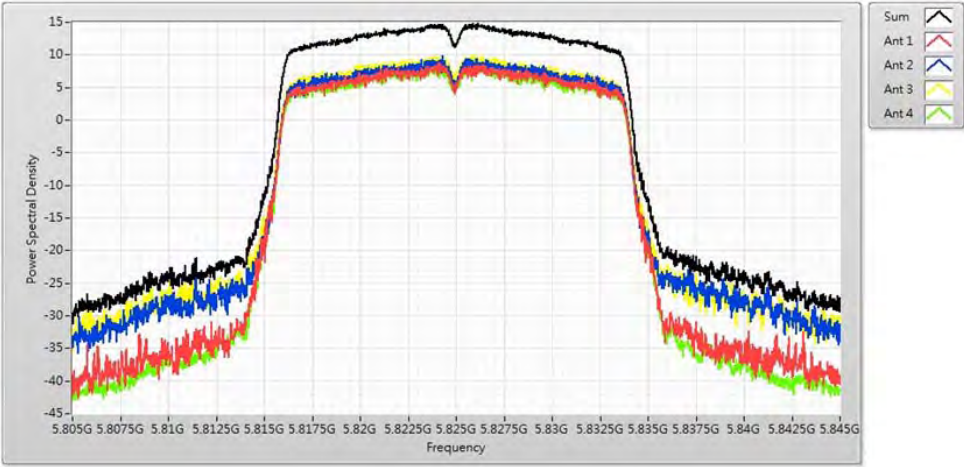
Channel 149



Channel 157



Channel 165

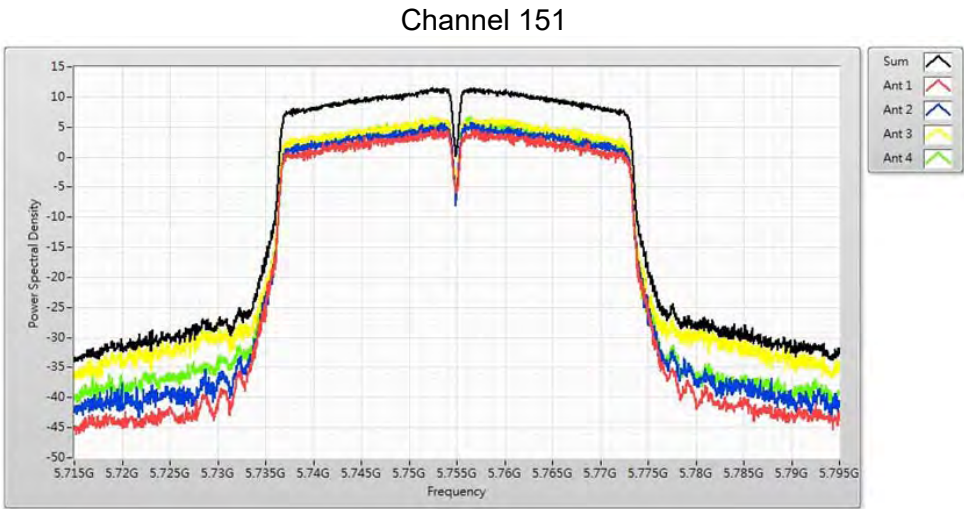


產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 2: Transmit Mode_BF_WA-30P12FU		
測試日期	2018/10/23	測試場地	SR10-H

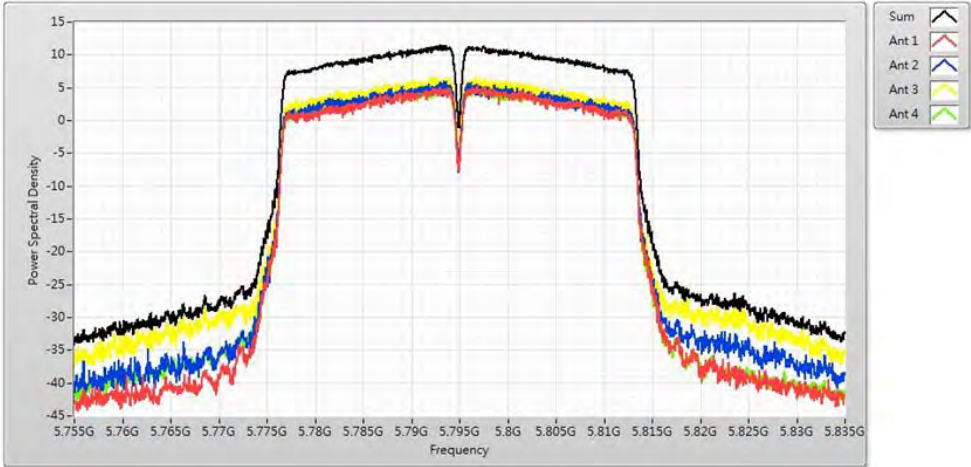
IEEE 802.11n(40MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	11.430	≤ 27.75	Pass
159	5795	11.420	≤ 27.75	Pass

Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm



Channel 159



產品名稱	Wireless-AC2400 同步雙頻無線分享器		
測試項目	峰值功率頻譜密度		
測試模式	Mode 2: Transmit Mode_BF_WA-30P12FU		
測試日期	2018/10/23	測試場地	SR10-H

IEEE 802.11ac(80MHz)(ANT0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	7.080	≤ 27.75	Pass

Directional gain=10log(ANT N)+Gain=4.77+3.481=8.251

Limit =17dBm-(8.251dBi-6dBi)=14.749dBm

Channel 155

