

附錄一

受測裝置之測試結果

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1. 場強輻射之量測

對受測物裝置之其他不必要之發射(測至 40GHz)依下列測試模式分別於電波暗室內進行量測，選擇低、中、高頻率來進行量測，並將下列測試模式之測試數據隨案件所附。所得讀值資料請見章節 1.1 ~1.2：

Normal 模式

此測試項目已於報告號碼(EM-NC190270)附錄一章節 1 進行評估，故不另行量測。

支援 IEEE 802.11a/n/ac，依測試要求評估低、中、高頻率，並檢附三頻率之最差模式於此測試報告中。

模式	動作狀態	基本頻率		量測頻率範圍
802.11a	發射	UNII Band I	5180MHz(CH36)	1000-40000MHz
		UNII Band II	5260MHz(CH52)	
		UNII Band III	5700MHz(CH140)	
		UNII Band IV	5825MHz(CH165)	
802.11n-HT20	發射	UNII Band I	5200MHz(CH40)	1000-40000MHz
		UNII Band II	5260MHz(CH52)	1000-40000MHz
		UNII Band III	5700MHz(CH140)	1000-40000MHz
		UNII Band IV	5825MHz(CH165)*	30-1000MHz 1000-40000MHz
802.11n-HT40	發射	UNII Band I	5190MHz(CH38)	1000-40000MHz
		UNII Band II	5270MHz (CH54)	
		UNII Band III	5670MHz(CH134)	
		UNII Band IV	5795MHz(CH159)	
802.11ac-VHT80	發射	UNII Band I	5210MHz(CH42)	1000-40000MHz
		UNII Band II	5290MHz (CH58)	
		UNII Band III	5610MHz(CH122)	
		UNII Band IV	5775MHz(CH155)	
---	接收	UNII Band III	5700MHz(CH140)	30-1000MHz
				1000-40000MHz

註: *: 經評估後，以最差頻率進行 30-1000MHz 量測。

對受測物裝置落於技術規範第 2.7 章節的禁用頻帶之混附發射以下列測試模式依規定分別進行量測，所得量測資料請見章節 1.3。

模式	動作狀態	基本頻率		量測頻率範圍
802.11a	發射	UNII Band I	5180MHz (CH36)	5100-5200MHz
		UNII Band II	5320MHz (CH64)	5300-5400MHz
		UNII Band III	5500MHz (CH100)	5420-5520MHz
			5700MHz (CH140)	5660-5760MHz
802.11n-HT20	發射	UNII Band I	5180MHz (CH36)	5100-5200MHz
		UNII Band II	5320MHz (CH64)	5300-5400MHz
		UNII Band III	5500MHz (CH100)	5420-5520MHz
			5700MHz (CH140)	5660-5760MHz
802.11n-HT40	發射	UNII Band I	5190MHz (CH38)	5100-5210MHz
		UNII Band II	5310MHz (CH62)	5290-5400MHz
		UNII Band III	5510MHz (CH102)	5420-5530MHz
			5670MHz (CH134)	5650-5760MHz
802.11ac-VHT80	發射	UNII Band I	5210MHz (CH42)	5100-5250MHz
		UNII Band II	5290MHz (CH58)	5250-5400MHz
		UNII Band III	5530MHz (CH106)	5420-5570MHz

測試日期	2019/10/31 ~ 11/04	環境溫/濕度	23°C/48%
測試電壓	DC 12V (經 DC 電源供應器供電)	測試人員	Kuper Hsu

1.1. 30-1000MHz 頻率範圍，其他不必要發射量測

Mode	802.11n-HT20	UNII Band	IV
		Frequency	TX 5825MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.91	23.73	1.25	0.65	25.63	40.00	14.37	Peak
196.84	16.12	3.39	14.20	33.71	43.50	9.79	Peak
237.58	18.22	3.82	22.66	44.70	46.00	1.30	Peak
482.99	23.49	6.61	3.70	33.80	46.00	12.20	Peak
874.87	27.11	8.32	5.37	40.80	46.00	5.20	Peak
997.09	28.04	9.02	4.53	41.59	54.00	12.41	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
47.46	15.90	1.52	14.55	31.97	40.00	8.03	Peak
167.74	16.05	3.10	9.33	28.48	43.50	15.02	Peak
240.49	18.38	3.85	11.27	33.50	46.00	12.50	Peak
643.04	25.07	7.10	4.26	36.43	46.00	9.57	Peak
903.00	27.34	8.47	2.04	37.85	46.00	8.15	Peak
998.06	28.04	9.03	5.16	42.23	54.00	11.77	Peak

Mode	---	Frequency	RX 5700MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.94	24.34	1.23	1.02	26.59	40.00	13.41	Peak
196.84	16.12	3.39	14.98	34.49	43.50	9.01	Peak
240.49	18.38	3.85	21.85	44.08	46.00	1.92	Peak
480.08	23.47	6.59	3.80	33.86	46.00	12.14	Peak
874.87	27.11	8.32	5.44	40.87	46.00	5.13	Peak
964.11	27.82	8.84	4.73	41.39	54.00	12.61	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
47.46	15.90	1.52	14.11	31.53	40.00	8.47	Peak
167.74	16.05	3.10	8.79	27.94	43.50	15.56	Peak
236.61	18.18	3.81	11.36	33.35	46.00	12.65	Peak
702.21	25.47	7.37	3.00	35.84	46.00	10.16	Peak
831.22	26.75	8.08	4.07	38.90	46.00	7.10	Peak
998.06	28.04	9.03	6.00	43.07	54.00	10.93	Peak

1.2. 1000MHz 以上頻率範圍，其他不必要發射量測

頻率範圍量測至 40GHz，其他未列在報告上乃因訊號太小無法量測。

Mode	802.11a	Frequency	TX 5180MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10360.00	38.30	11.75	0.99	51.04	54.00	2.96	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10360.00	38.30	11.75	2.85	52.90	54.00	1.10	Peak

Mode	802.11a	Frequency	TX 5260MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10520.00	38.40	11.84	0.02	50.26	54.00	3.74	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10520.00	38.40	11.84	2.51	52.75	54.00	1.25	Peak

Mode	802.11a	Frequency	TX 5700MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10380.00	38.30	11.76	0.62	50.68	54.00	3.32	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10380.00	38.30	11.76	2.61	52.67	54.00	1.33	Peak

Mode	802.11a	Frequency	TX 5825MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10680.00	38.48	11.92	-1.04	49.36	54.00	4.64	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10680.00	38.48	11.92	1.26	51.66	54.00	2.34	Peak

Mode	802.11n-HT20	Frequency	TX 5200MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10400.00	38.30	11.77	-0.09	49.98	54.00	4.02	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10400.00	38.30	11.77	1.57	51.64	54.00	2.36	Peak

Mode	802.11n-HT20	Frequency	TX 5260MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10520.00	38.40	11.84	0.26	50.50	54.00	3.50	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10520.00	38.40	11.84	1.66	51.90	54.00	2.10	Peak

Mode	802.11n-HT20	Frequency	TX 5700MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11400.00	39.80	12.63	-2.03	50.40	54.00	3.60	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11400.00	39.80	12.63	-0.99	51.44	54.00	2.56	Peak

Mode	802.11n-HT20	Frequency	TX 5825MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11650.00	40.20	12.96	-2.45	50.71	54.00	3.29	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11650.00	40.20	12.96	-1.58	51.58	54.00	2.42	Peak

Mode	802.11n-HT40	Frequency	TX 5190MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10380.00	38.30	11.76	0.77	50.83	54.00	3.17	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10380.00	38.30	11.76	1.87	51.93	54.00	2.07	Peak

Mode	802.11n-HT40	Frequency	TX 5270MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10540.00	38.40	11.85	0.00	50.25	54.00	3.75	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10540.00	38.40	11.85	1.64	51.89	54.00	2.11	Peak

Mode	802.11n-HT40	Frequency	TX 5670MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11340.00	39.62	12.55	-0.76	51.41	54.00	2.59	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11340.00	39.62	12.55	0.09	52.26	54.00	1.74	Peak

Mode	802.11n-HT40	Frequency	TX 5795MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11590.00	40.19	12.88	-2.15	50.92	54.00	3.08	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11590.00	40.19	12.88	-1.84	51.23	54.00	2.77	Peak

Mode	802.11ac-VHT80	Frequency	TX 5210MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10420.00	38.32	11.78	0.99	51.09	54.00	2.91	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10420.00	38.32	11.78	0.51	50.61	54.00	3.39	Peak

Mode	802.11ac-VHT80	Frequency	TX 5290MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10580.00	38.40	11.87	-0.29	49.98	54.00	4.02	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10580.00	38.40	11.87	0.53	50.80	54.00	3.20	Peak

Mode	802.11ac-VHT80	Frequency	TX 5610MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11220.00	39.42	12.38	0.08	51.88	54.00	2.12	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11220.00	39.42	12.38	0.89	52.69	54.00	1.31	Peak

Mode	802.11ac-VHT80	Frequency	TX 5775MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11550.00	40.15	12.83	-2.13	50.85	54.00	3.15	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11550.00	40.15	12.83	-0.87	52.11	54.00	1.89	Peak

Mode	---	Frequency	RX 5700MHz
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Antenna at Horizontal Polarization

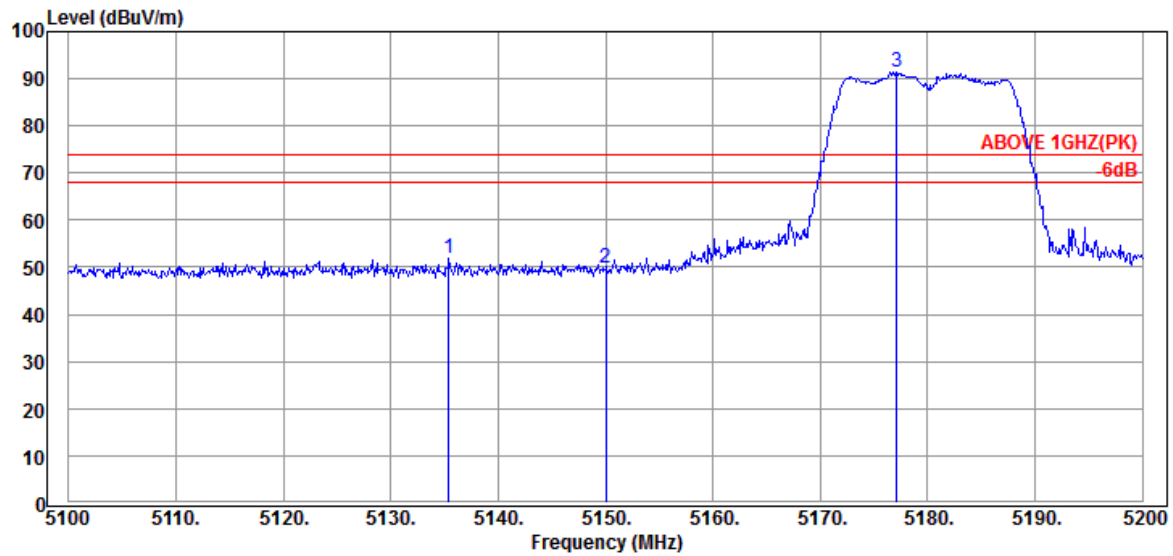
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11400.00	39.80	12.63	-1.56	50.87	54.00	3.13	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11400.00	39.80	12.63	-0.73	51.70	54.00	2.30	Peak

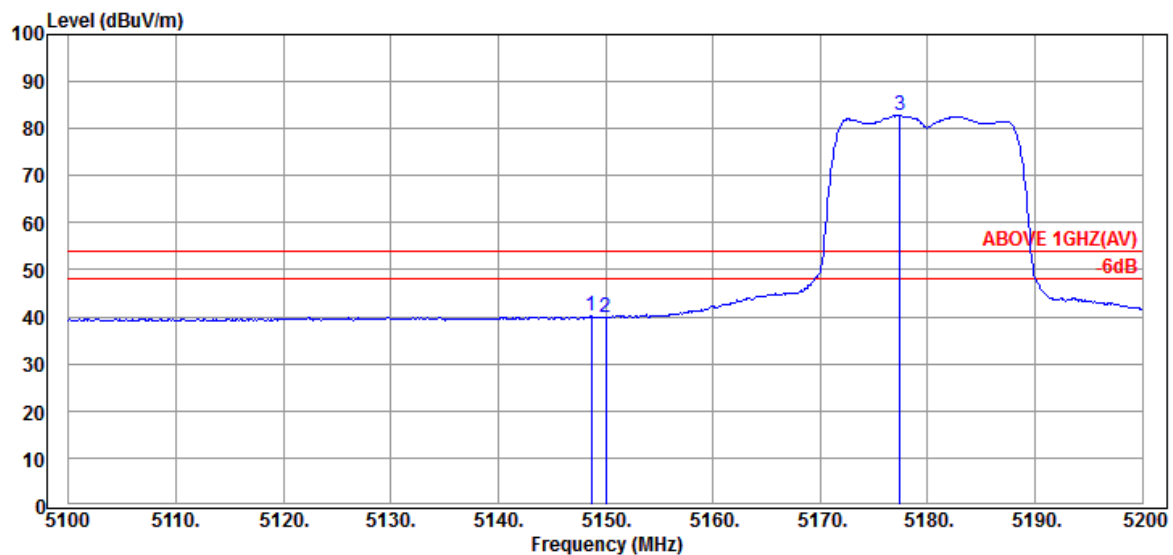
1.3. 禁用頻帶量測結果 (其他不必要發射)

Mode	802.11a	Frequency	TX 5180MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5135.40	33.87	8.72	9.47	52.06	74.00	21.94	Peak
5150.00	33.90	8.73	7.23	49.86	74.00	24.14	Peak
@ 5177.10	34.01	8.74	48.60	91.35	---	---	Peak

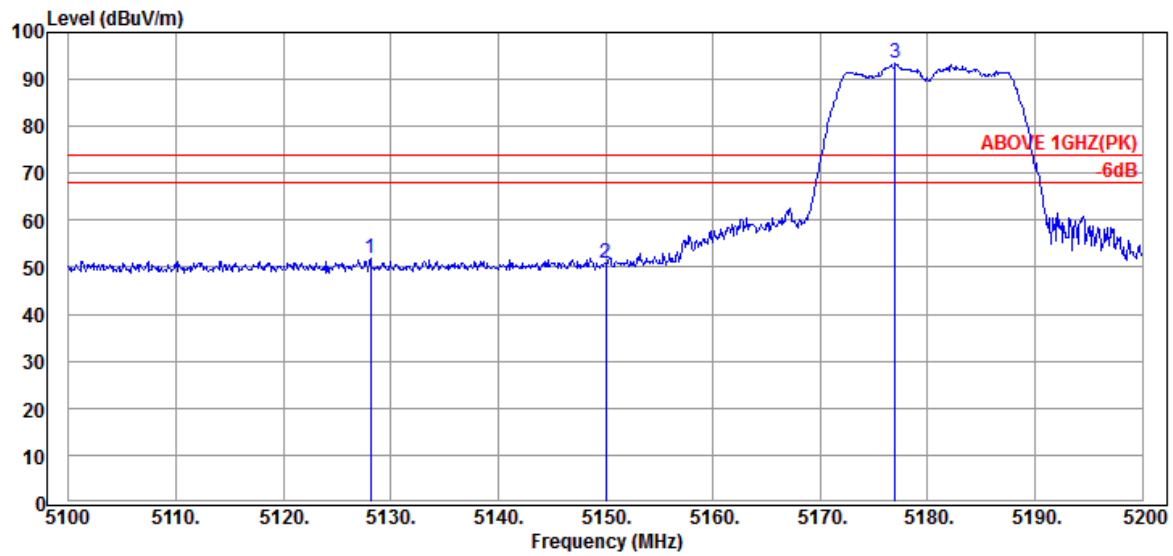


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5148.70	33.90	8.73	-2.41	40.22	54.00	13.78	Average
5150.00	33.90	8.73	-2.75	39.88	54.00	14.12	Average
@ 5177.40	34.01	8.74	40.16	82.91	---	---	Average

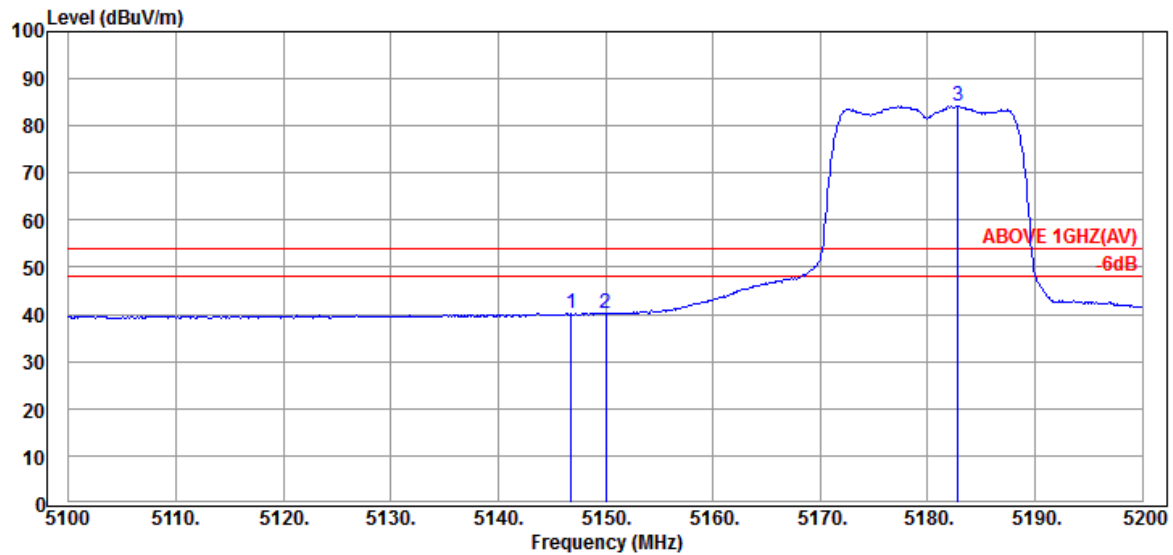
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11a	Frequency	TX 5180MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5128.10	33.86	8.71	9.40	51.97	74.00	22.03	Peak
5150.00	33.90	8.73	8.16	50.79	74.00	23.21	Peak
@ 5177.00	34.01	8.74	50.66	93.41	---	---	Peak

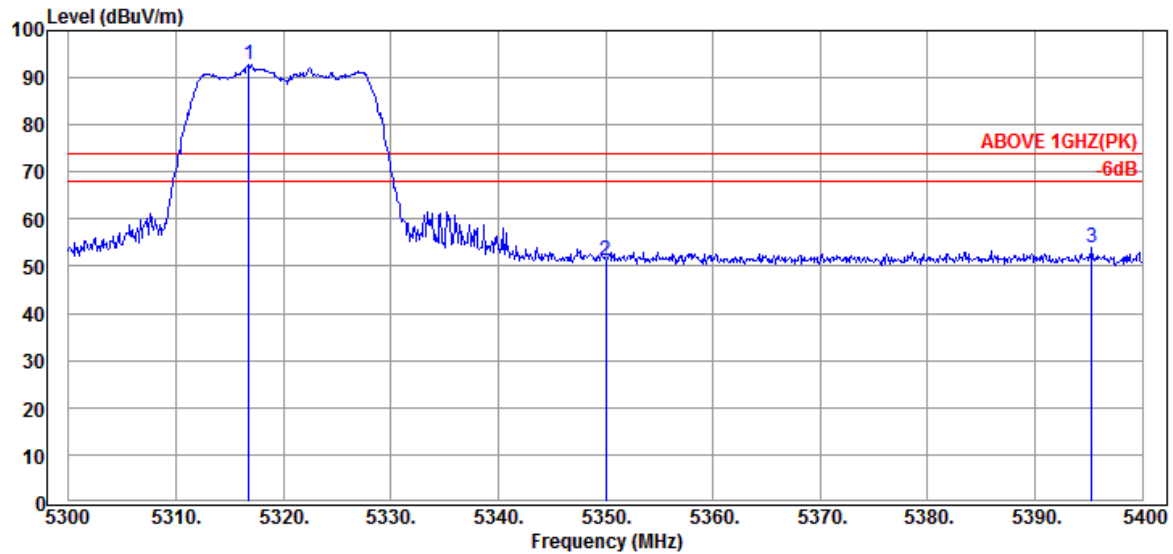


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5146.80	33.89	8.73	-2.36	40.26	54.00	13.74	Average
5150.00	33.90	8.73	-2.35	40.28	54.00	13.72	Average
@ 5182.80	34.03	8.75	41.38	84.16	---	---	Average

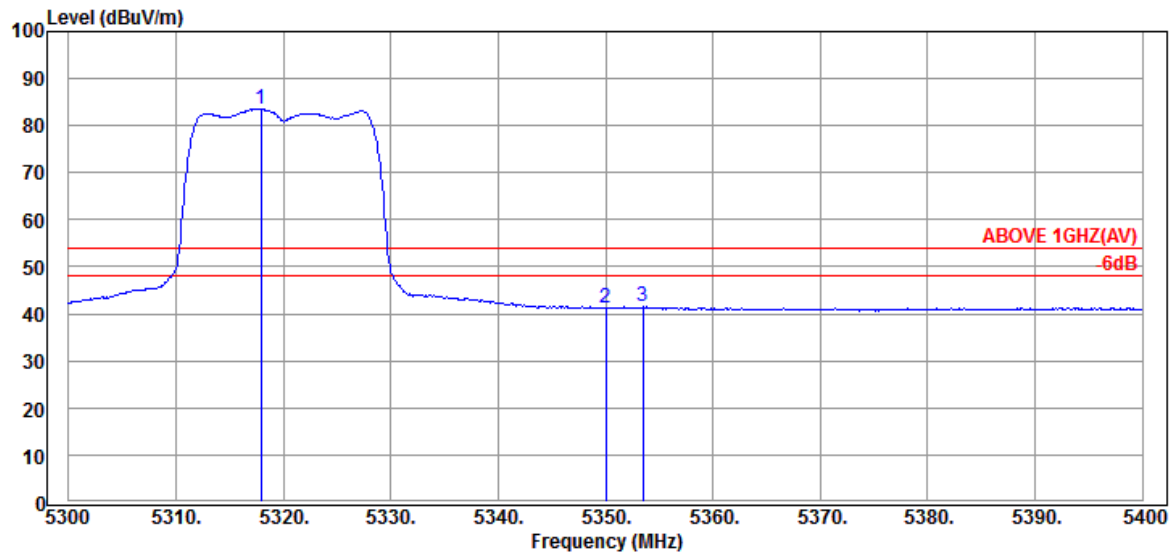
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11a	Frequency	TX 5320MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5316.80	34.50	8.82	49.52	92.84	---	---	Peak
	5350.00	34.50	8.84	7.73	51.07	74.00	22.93	Peak
	5395.30	34.50	8.87	10.45	53.82	74.00	20.18	Peak

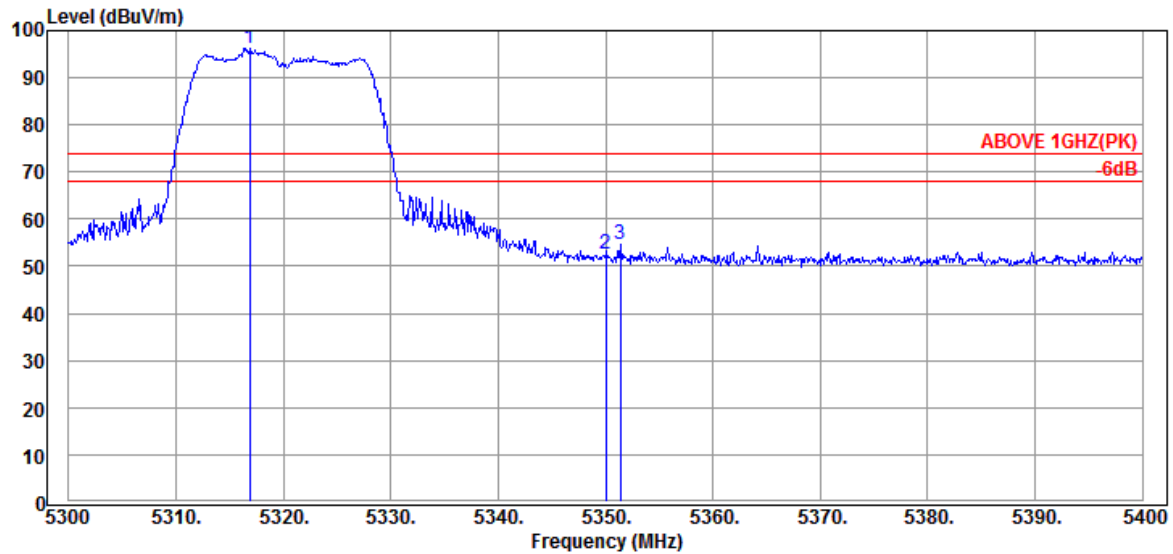


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5317.90	34.50	8.82	40.24	83.56	---	---	Average
	5350.00	34.50	8.84	-1.98	41.36	54.00	12.64	Average
	5353.50	34.50	8.84	-1.78	41.56	54.00	12.44	Average

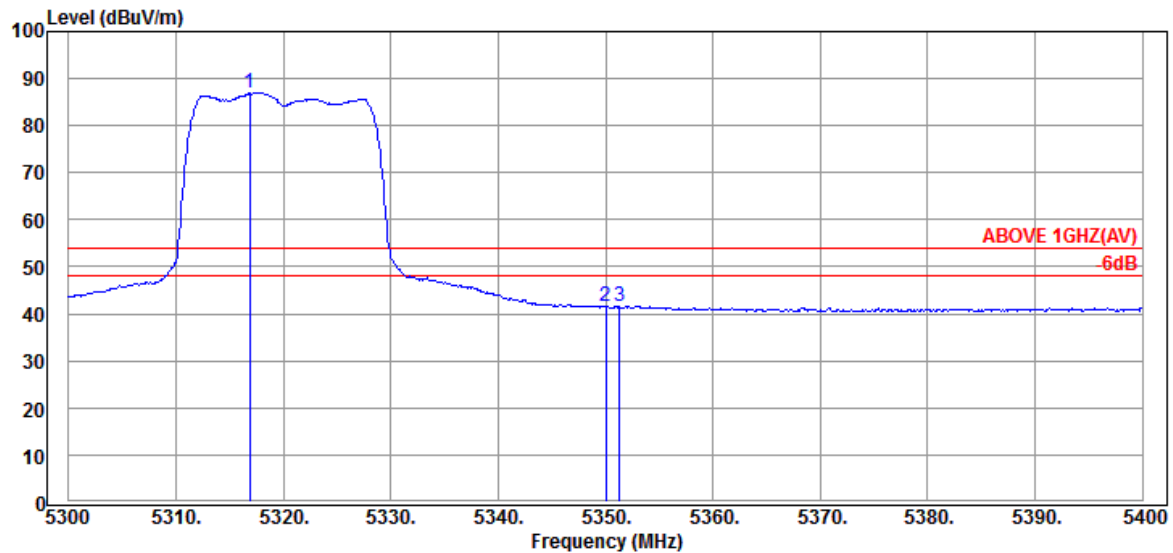
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11a	Frequency	TX 5320MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5316.90	34.50	8.82	52.86	96.18	---	---	Peak
	5350.00	34.50	8.84	9.21	52.55	74.00	21.45	Peak
	5351.40	34.50	8.84	11.16	54.50	74.00	19.50	Peak

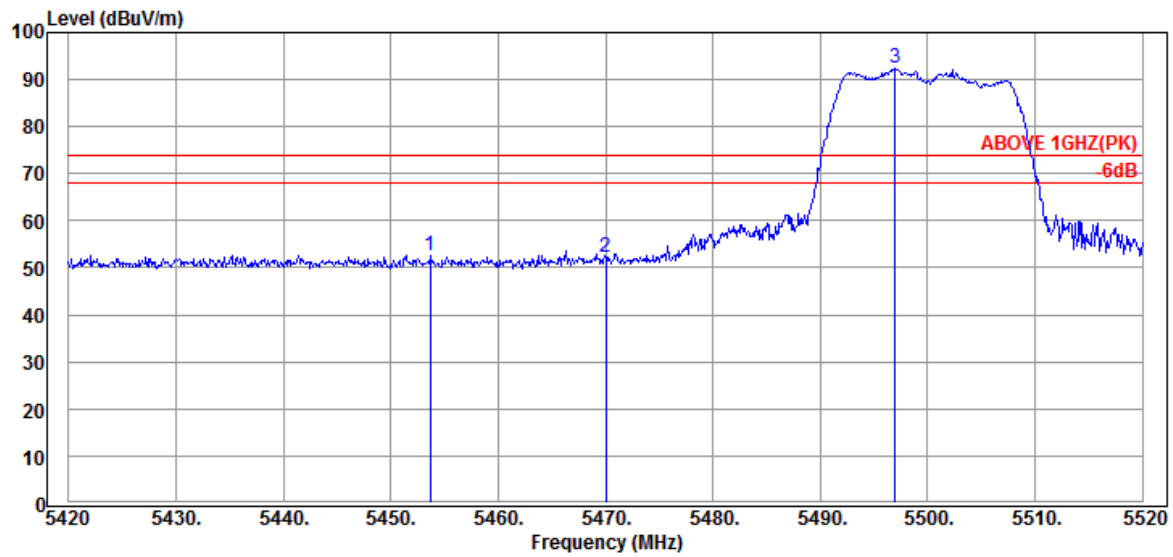


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5316.90	34.50	8.82	43.71	87.03	---	---	Average
	5350.00	34.50	8.84	-1.76	41.58	54.00	12.42	Average
	5351.30	34.50	8.84	-1.67	41.67	54.00	12.33	Average

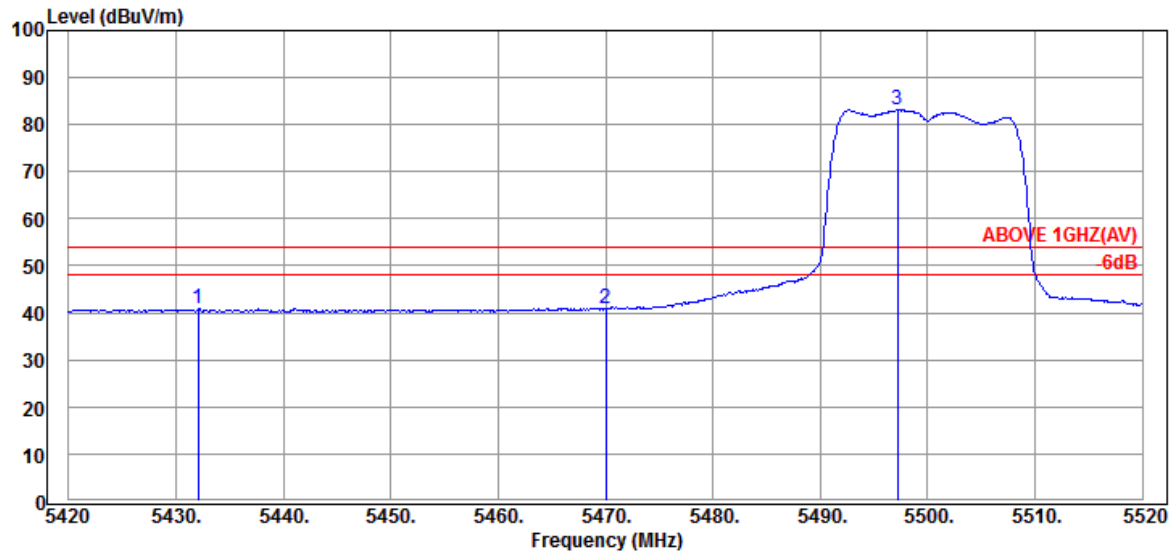
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11a	Frequency	TX 5500MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5453.70	34.50	8.90	9.28	52.68	74.00	21.32	Peak
5470.00	34.50	8.91	8.98	52.39	74.00	21.61	Peak
@ 5497.00	34.50	8.92	49.08	92.50	---	---	Peak

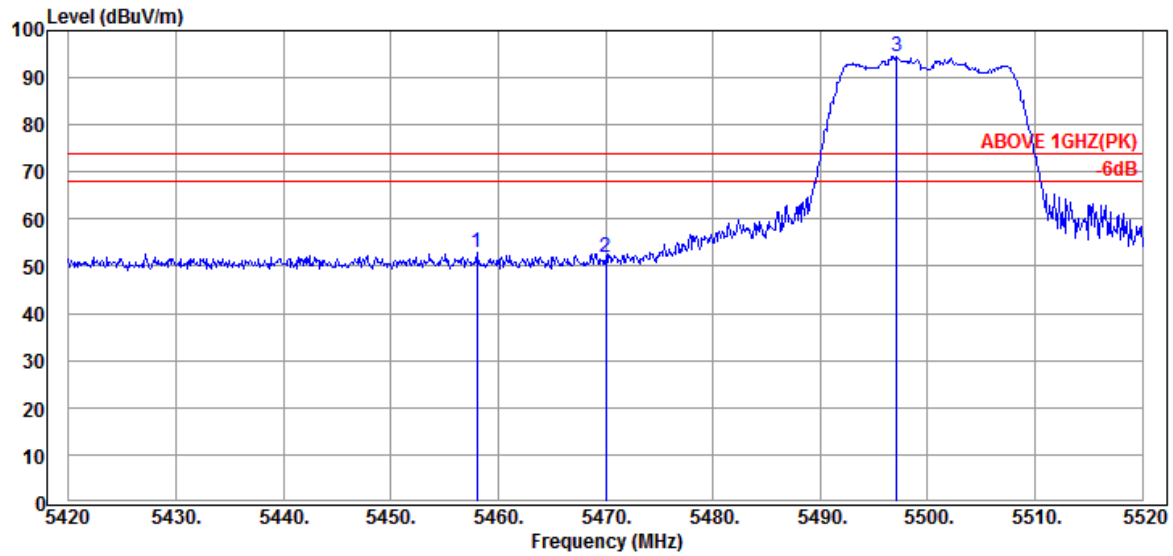


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5432.10	34.50	8.89	-2.47	40.92	54.00	13.08	Average
5470.00	34.50	8.91	-2.64	40.77	54.00	13.23	Average
@ 5497.20	34.50	8.92	39.66	83.08	---	---	Average

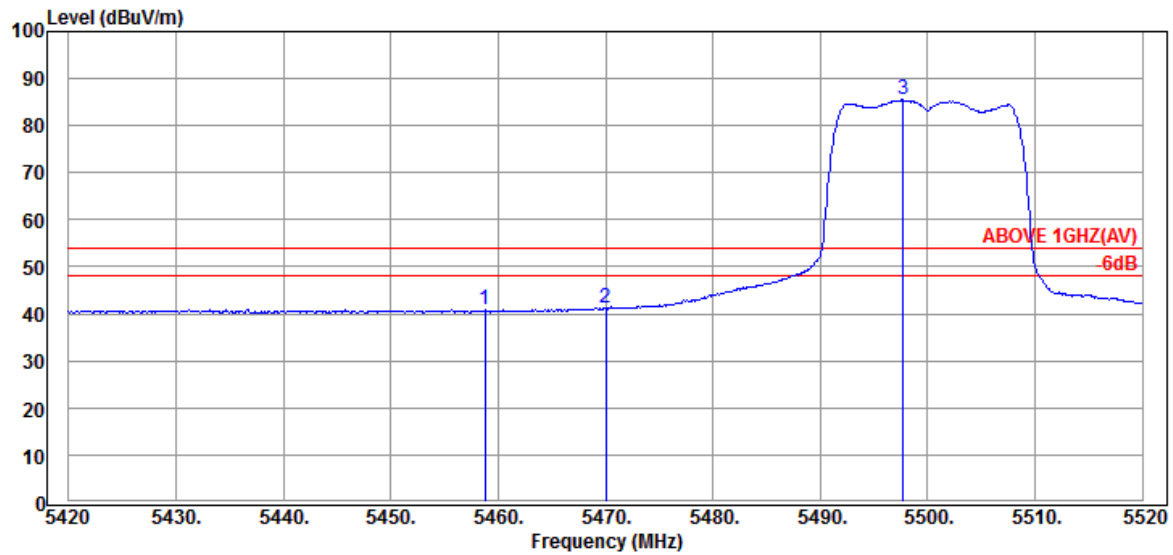
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11a	Frequency	TX 5500MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5458.00	34.50	8.90	9.43	52.83	74.00	21.17	Peak
5470.00	34.50	8.91	8.47	51.88	74.00	22.12	Peak
@ 5497.10	34.50	8.92	51.11	94.53	---	---	Peak

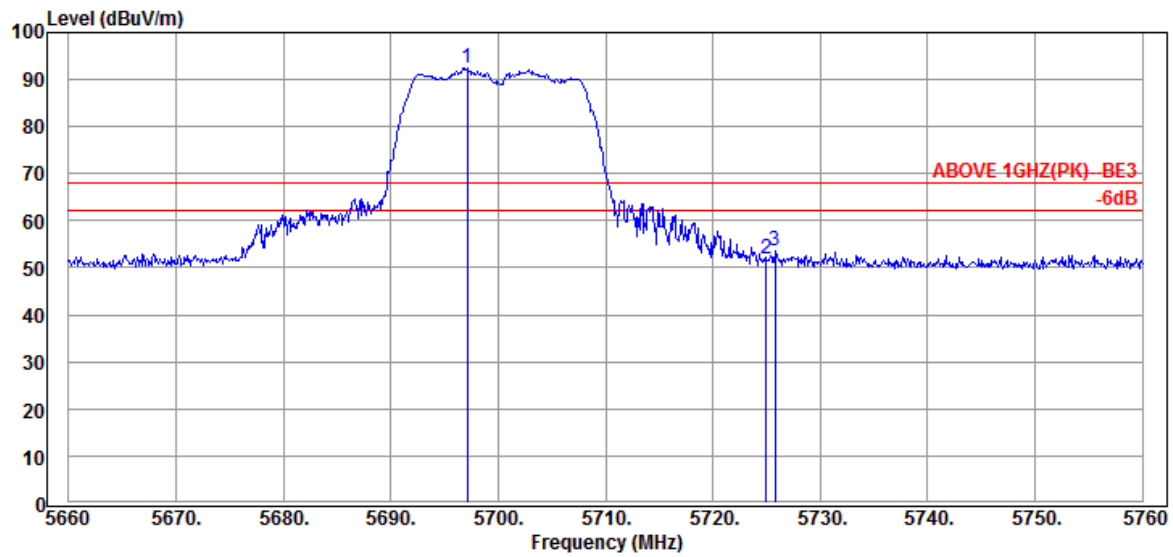


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5458.80	34.50	8.90	-2.58	40.82	54.00	13.18	Average
5470.00	34.50	8.91	-2.24	41.17	54.00	12.83	Average
@ 5497.70	34.50	8.92	42.02	85.44	---	---	Average

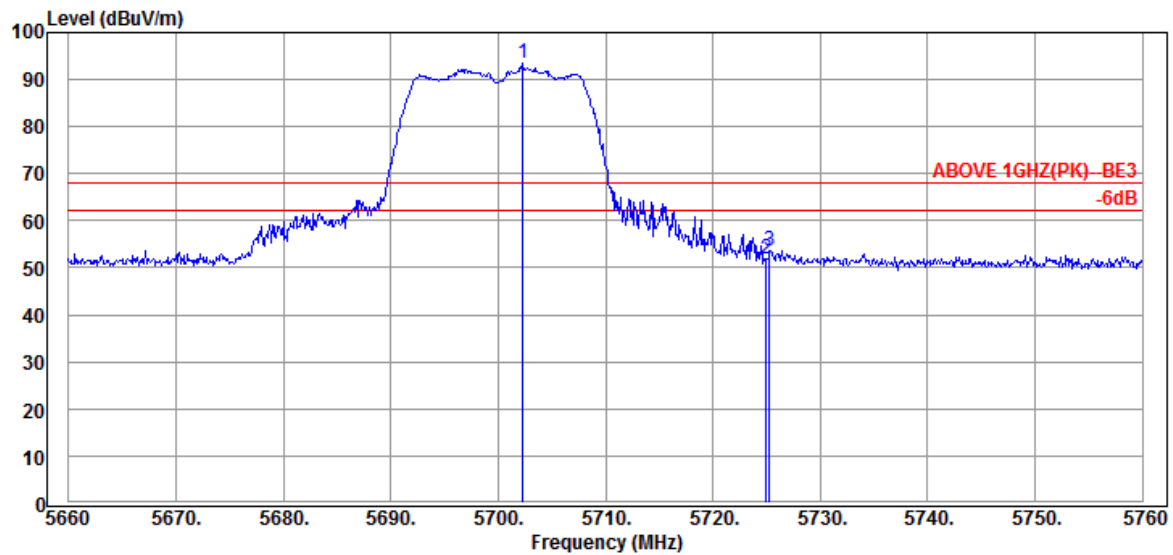
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11a	Frequency	TX 5700MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5697.10	34.41	9.03	49.08	92.52	68.20	---	Peak
	5725.00	34.40	9.04	8.28	51.72	68.20	16.48	Peak
	5725.80	34.40	9.04	10.00	53.44	68.20	14.76	Peak

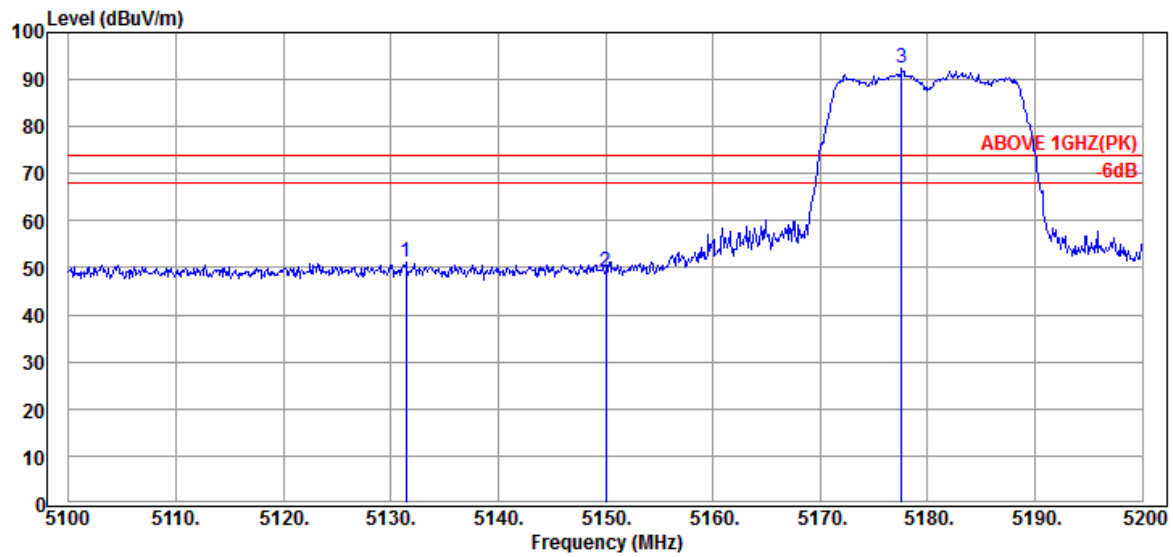


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5702.30	34.40	9.03	50.01	93.44	68.20	---	Peak
	5725.00	34.40	9.04	8.62	52.06	68.20	16.14	Peak
	5725.30	34.40	9.04	10.34	53.78	68.20	14.42	Peak

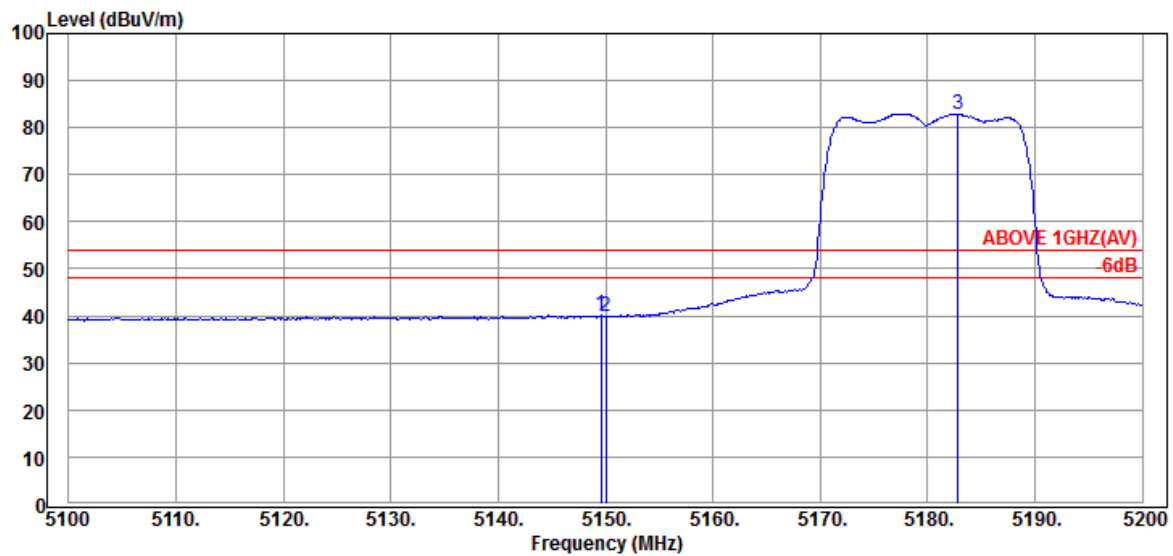
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 5180MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5131.40	33.86	8.72	8.64	51.22	74.00	22.78	Peak
5150.00	33.90	8.73	6.61	49.24	74.00	24.76	Peak
@ 5177.60	34.01	8.74	49.74	92.49	---	---	Peak



Antenna at Horizontal Polarization

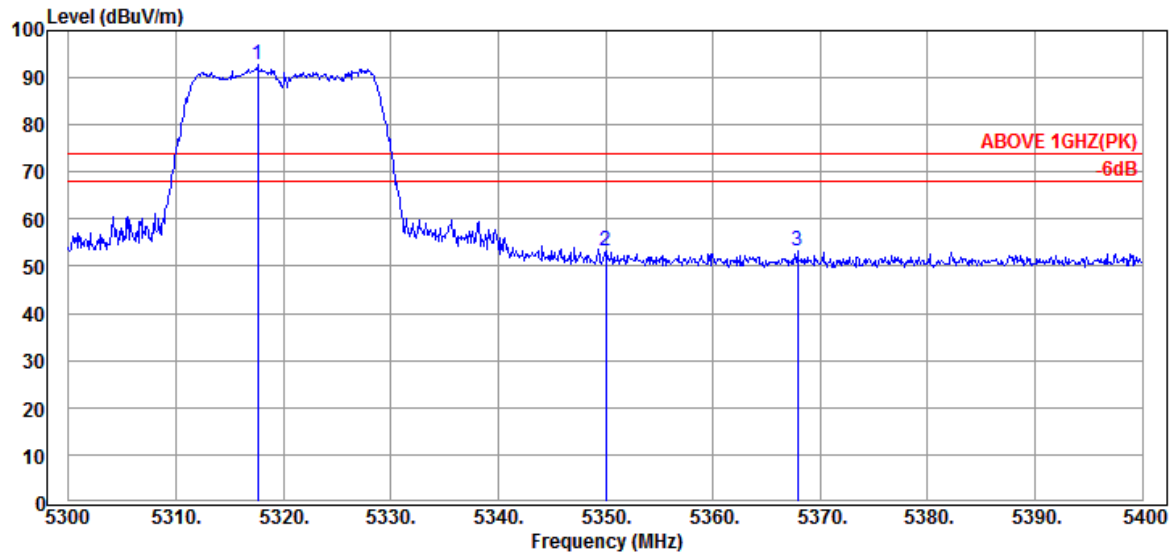
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.60	33.90	8.73	-2.48	40.15	54.00	13.85	Average
5150.00	33.90	8.73	-2.61	40.02	54.00	13.98	Average
@ 5182.80	34.03	8.75	40.21	82.99	---	---	Average

備註：“@”為主波，在此章節是不予以判定。



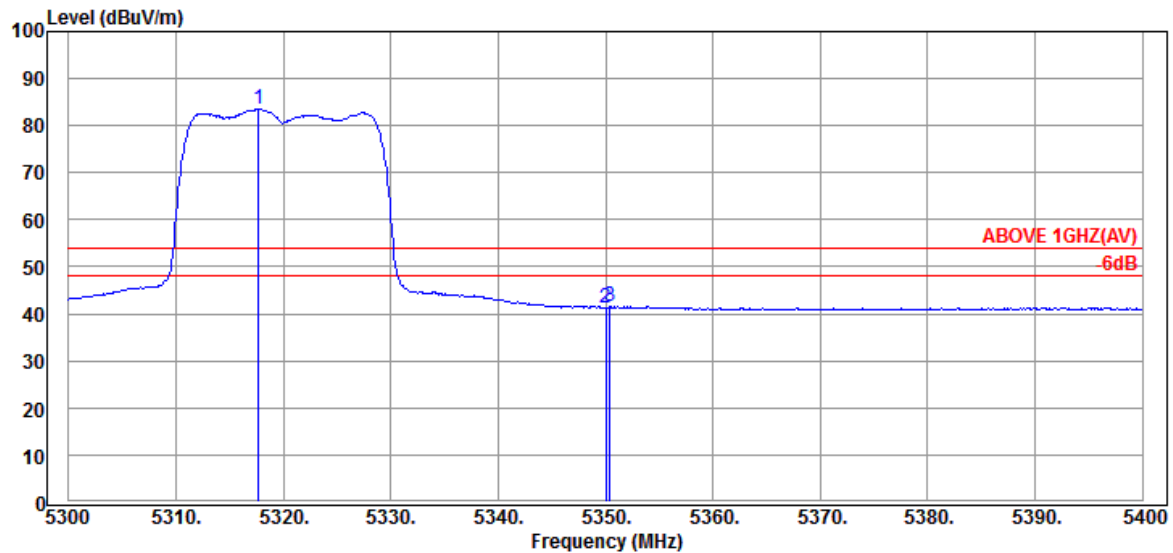
敦吉檢測科技股份有限公司案件編號:C1M1910132 報告號碼:EM-NC190272

Mode	802.11n-HT20	Frequency	TX 5320MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	5317.60	34.50	8.82	49.36	92.68	---	---	Peak
	5350.00	34.50	8.84	9.80	53.14	74.00	20.86	Peak
	5367.90	34.50	8.85	9.97	53.32	74.00	20.68	Peak

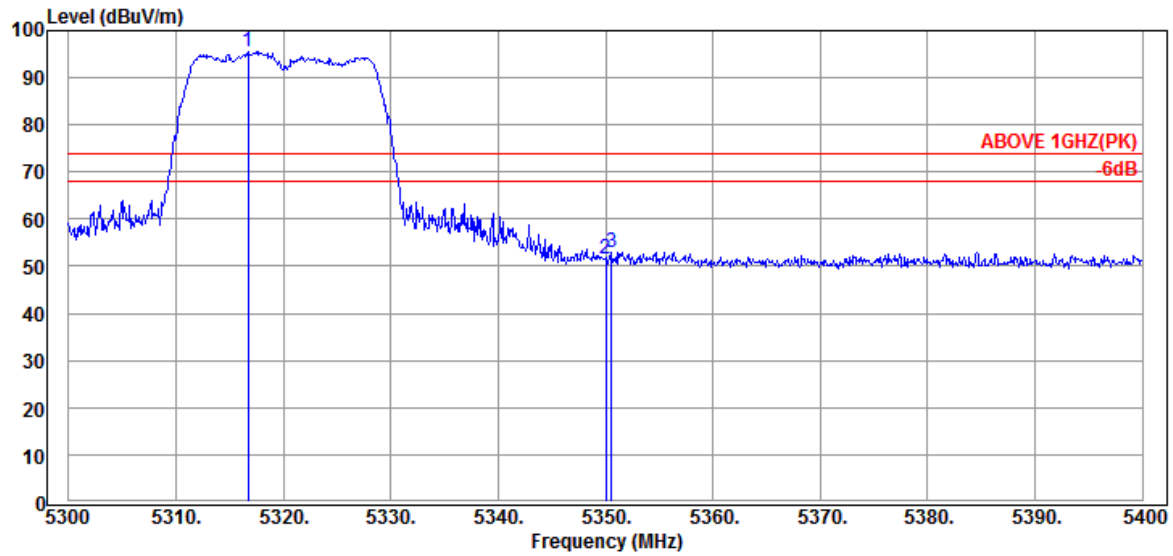


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	5317.70	34.50	8.82	40.14	83.46	---	---	Average
	5350.00	34.50	8.84	-1.97	41.37	54.00	12.63	Average
	5350.40	34.50	8.84	-1.84	41.50	54.00	12.50	Average

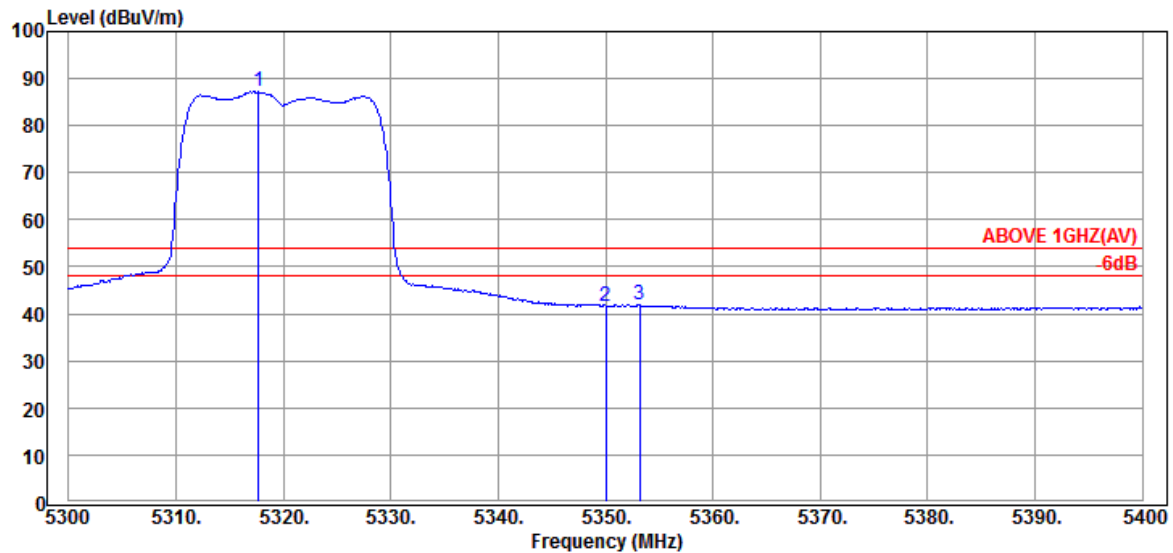
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 5320MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	5316.70	34.50	8.82	52.26	95.58	---	---	Peak
	5350.00	34.50	8.84	8.29	51.63	74.00	22.37	Peak
	5350.60	34.50	8.84	9.71	53.05	74.00	20.95	Peak

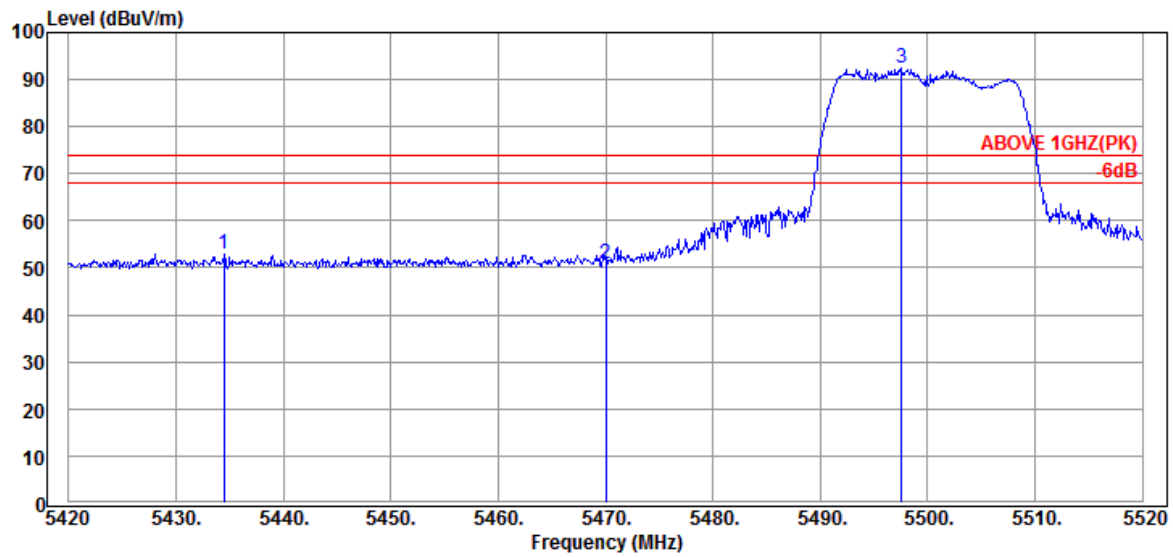


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	5317.70	34.50	8.82	43.88	87.20	---	---	Average
	5350.00	34.50	8.84	-1.66	41.68	54.00	12.32	Average
	5353.20	34.50	8.84	-1.38	41.96	54.00	12.04	Average

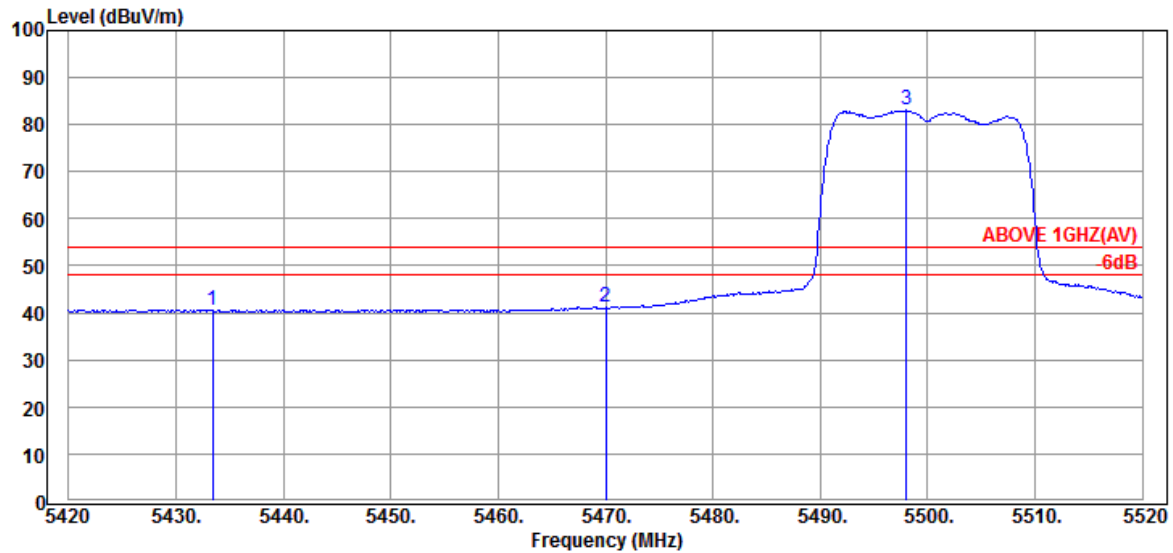
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 5500MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5434.50	34.50	8.89	9.41	52.80	74.00	21.20	Peak
5470.00	34.50	8.91	7.28	50.69	74.00	23.31	Peak
@ 5497.60	34.50	8.92	48.99	92.41	---	---	Peak

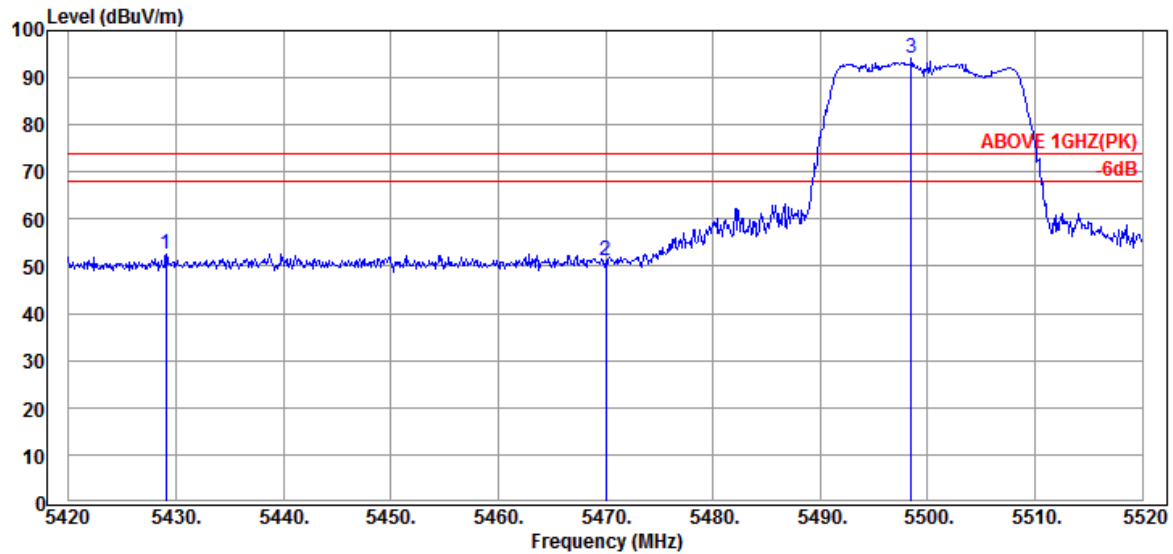


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5433.40	34.50	8.89	-2.68	40.71	54.00	13.29	Average
5470.00	34.50	8.91	-2.24	41.17	54.00	12.83	Average
@ 5498.00	34.50	8.92	39.61	83.03	---	---	Average

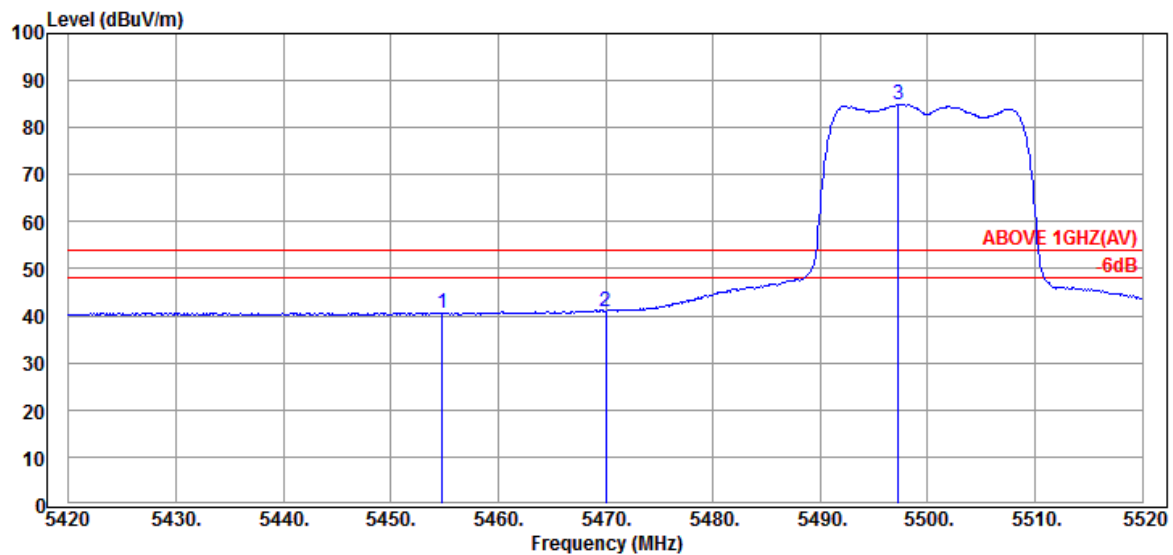
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 5500MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5429.10	34.50	8.88	9.32	52.70	74.00	21.30	Peak
5470.00	34.50	8.91	7.90	51.31	74.00	22.69	Peak
@ 5498.50	34.50	8.92	50.57	93.99	---	---	Peak

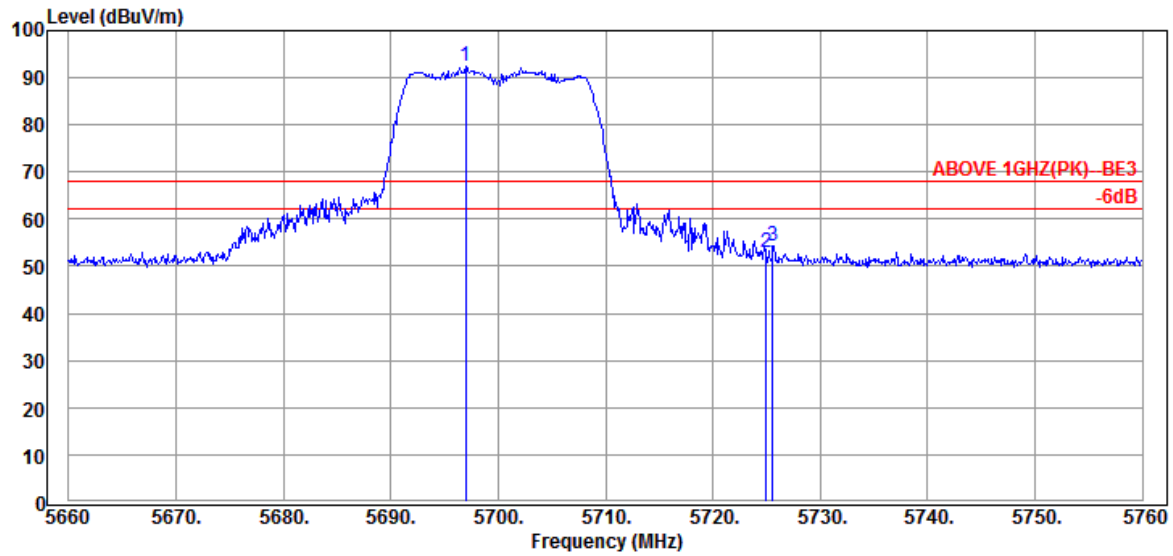


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5454.80	34.50	8.90	-2.77	40.63	54.00	13.37	Average
5470.00	34.50	8.91	-2.47	40.94	54.00	13.06	Average
@ 5497.30	34.50	8.92	41.43	84.85	---	---	Average

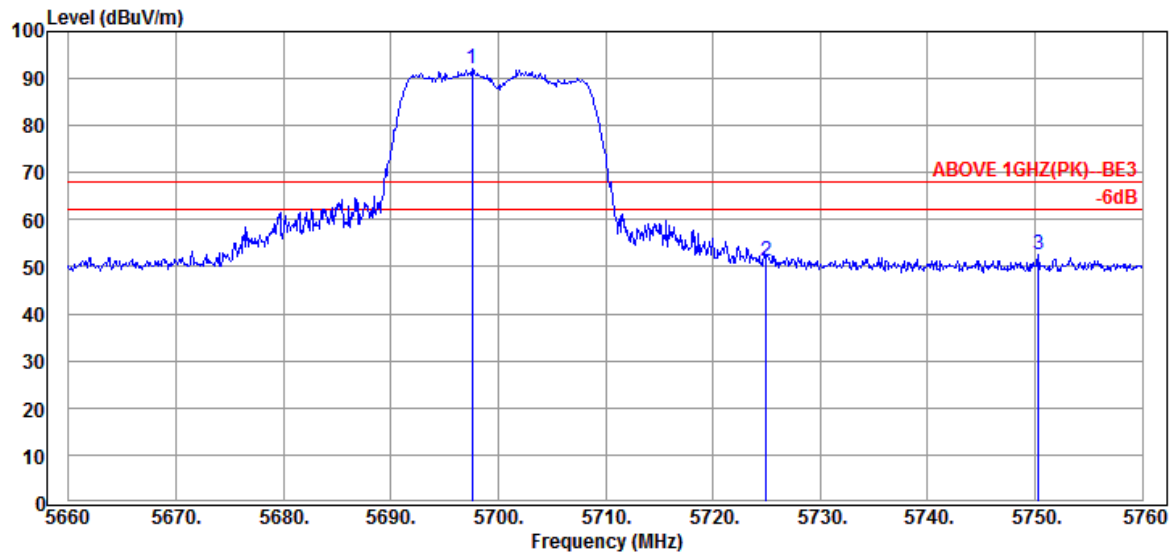
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT20	Frequency	TX 5700MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5697.00	34.41	9.03	48.95	92.39	---	---	Peak
	5725.00	34.40	9.04	9.45	52.89	68.20	15.31	Peak
	5725.60	34.40	9.04	10.94	54.38	68.20	13.82	Peak

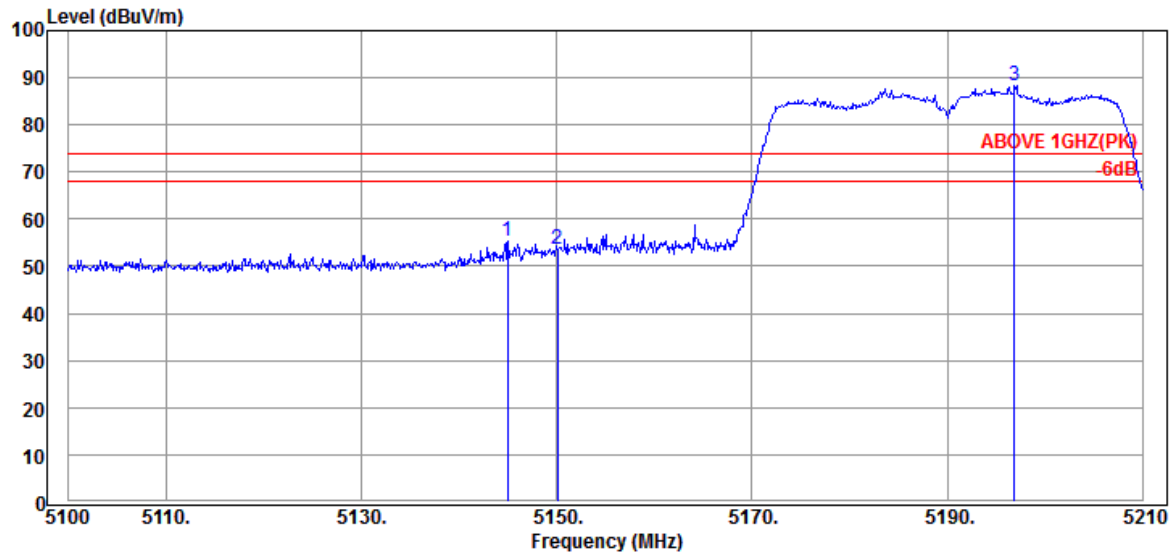


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5697.60	34.41	9.03	48.63	92.07	---	---	Peak
	5725.00	34.40	9.04	7.92	51.36	68.20	16.84	Peak
	5750.30	34.40	9.05	9.00	52.45	68.20	15.75	Peak

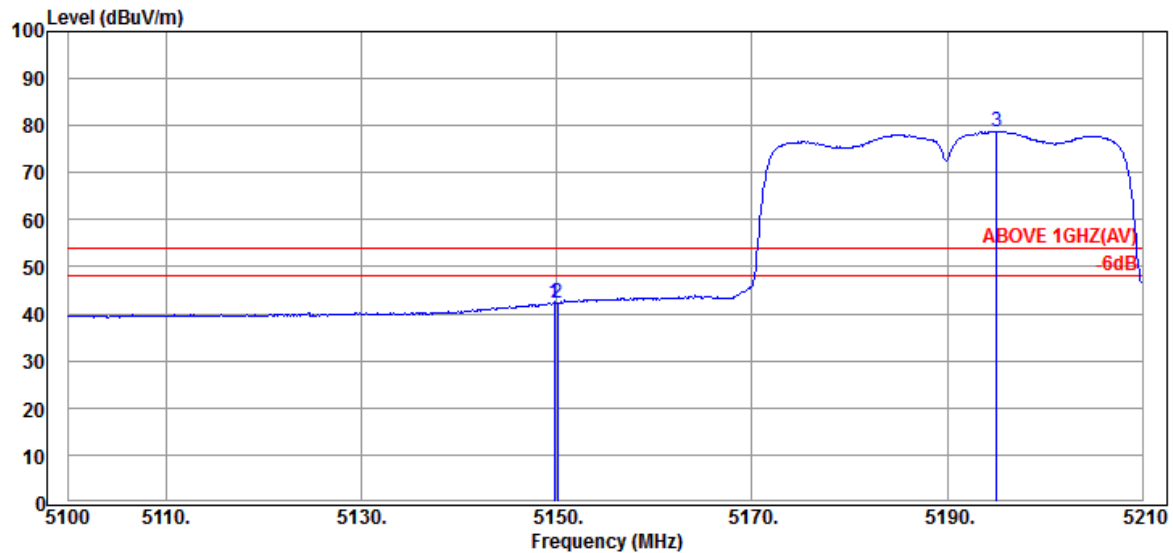
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 5190MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5144.99	33.89	8.72	12.87	55.48	74.00	18.52	Peak
5150.05	33.90	8.73	11.04	53.67	74.00	20.33	Peak
@ 5196.91	34.09	8.75	45.36	88.20	---	---	Peak

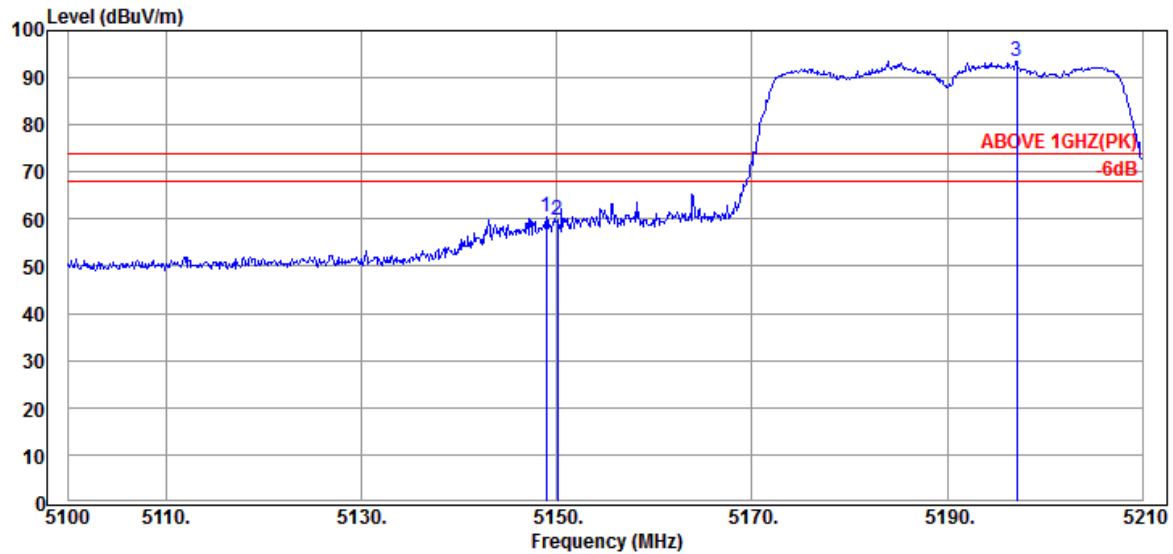


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5149.72	33.90	8.73	-0.39	42.24	54.00	11.76	Average
5150.05	33.90	8.73	-0.39	42.24	54.00	11.76	Average
@ 5195.04	34.08	8.75	35.83	78.66	---	---	Average

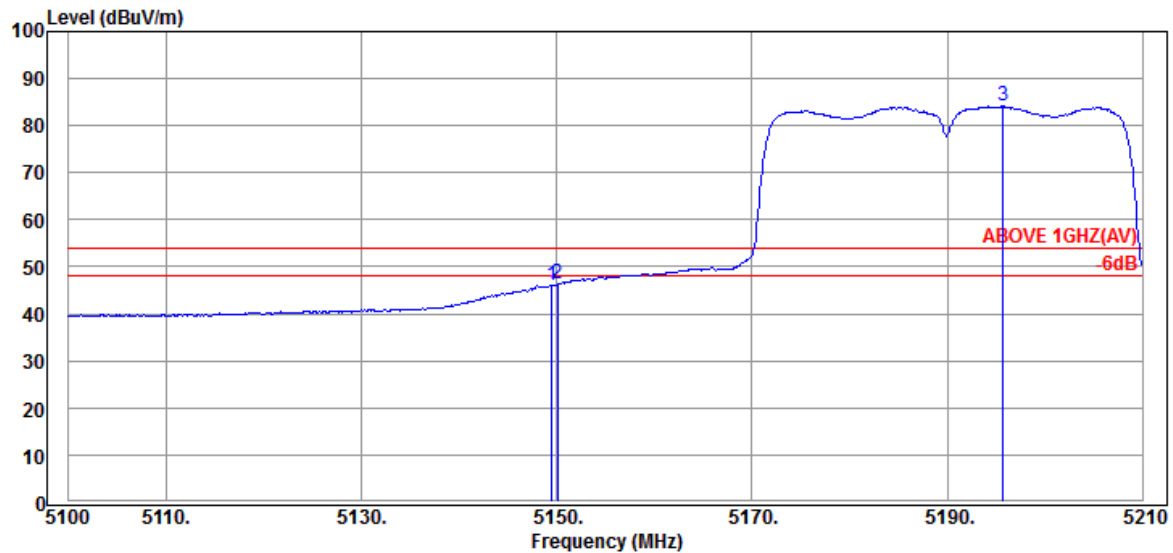
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 5190MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5148.95	33.90	8.73	17.70	60.33	74.00	13.67	Peak
5150.05	33.90	8.73	17.07	59.70	74.00	14.30	Peak
@ 5197.13	34.09	8.75	50.75	93.59	---	---	Peak

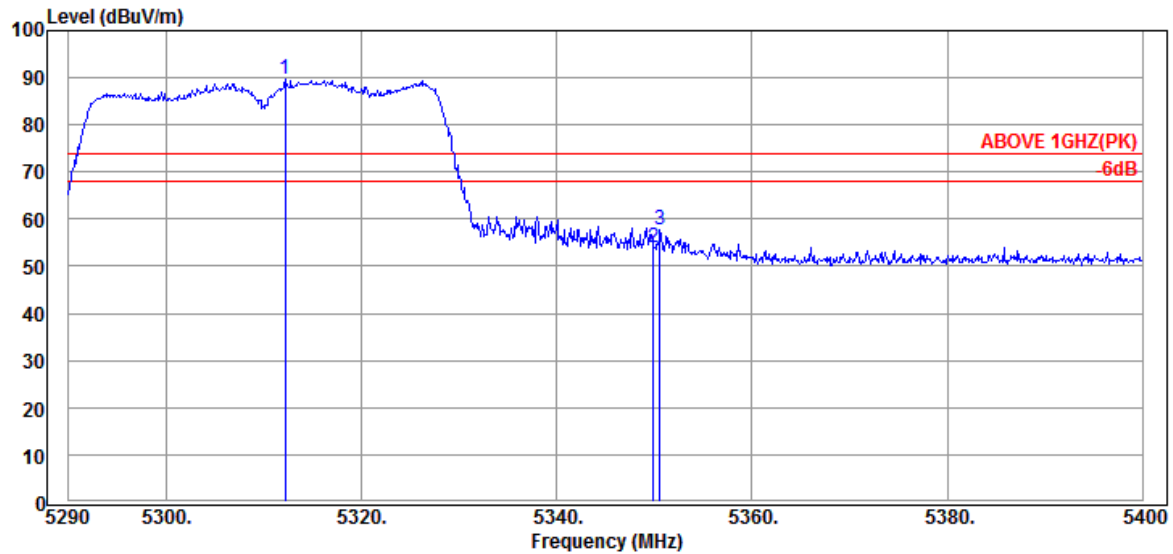


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5149.50	33.90	8.73	3.54	46.17	54.00	7.83	Average
5150.05	33.90	8.73	3.63	46.26	54.00	7.74	Average
@ 5195.70	34.08	8.75	41.24	84.07	---	---	Average

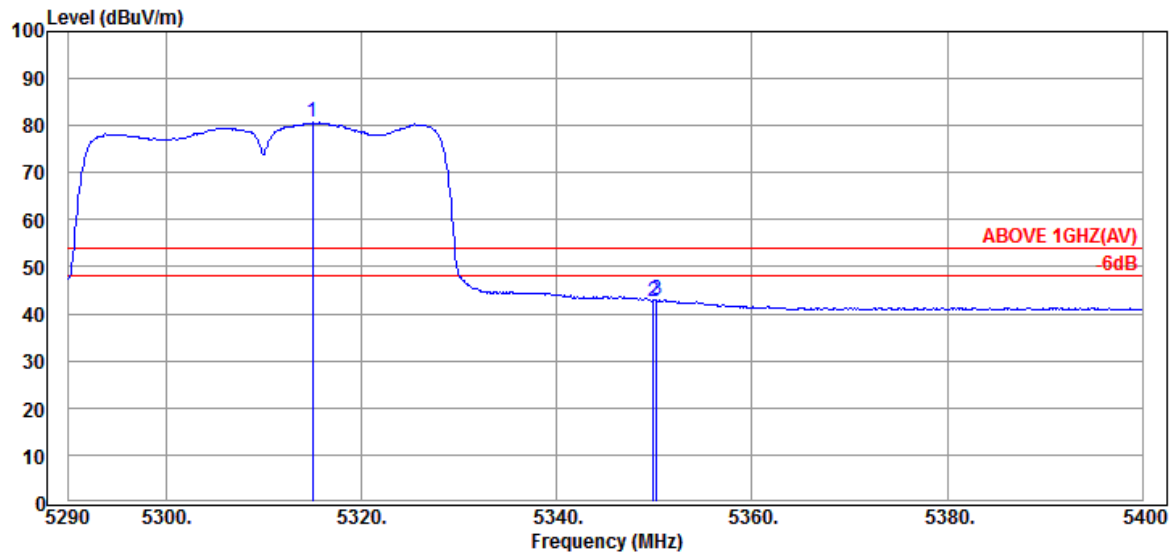
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 5310MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5312.22	34.50	8.82	46.40	89.72	---	---	Peak
	5349.95	34.50	8.84	10.70	54.04	74.00	19.96	Peak
	5350.61	34.50	8.84	14.33	57.67	74.00	16.33	Peak

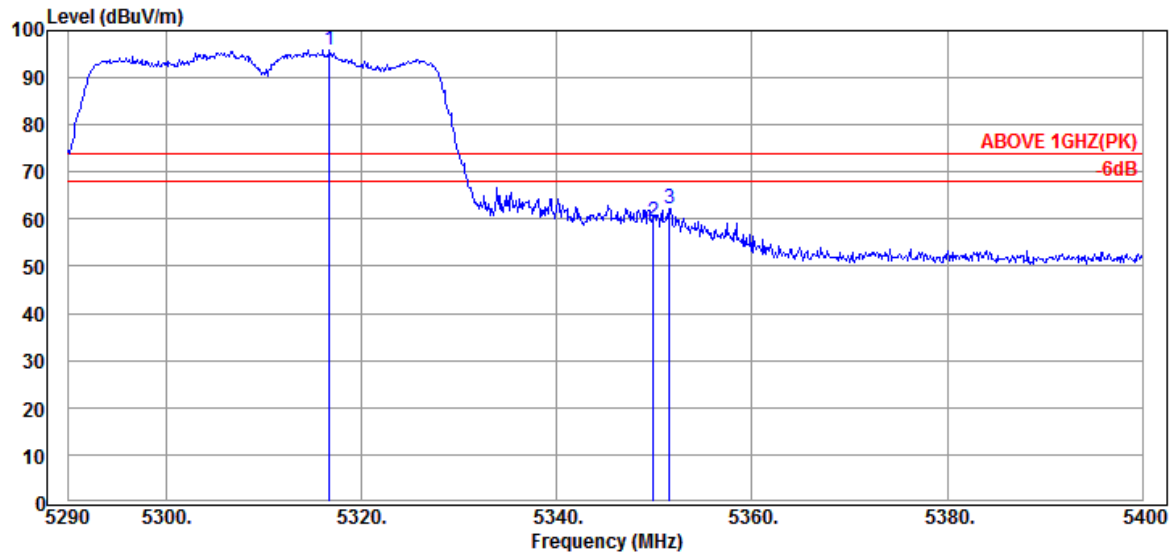


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5314.97	34.50	8.82	37.32	80.64	---	---	Average
	5349.95	34.50	8.84	-0.68	42.66	54.00	11.34	Average
	5350.28	34.50	8.84	-0.40	42.94	54.00	11.06	Average

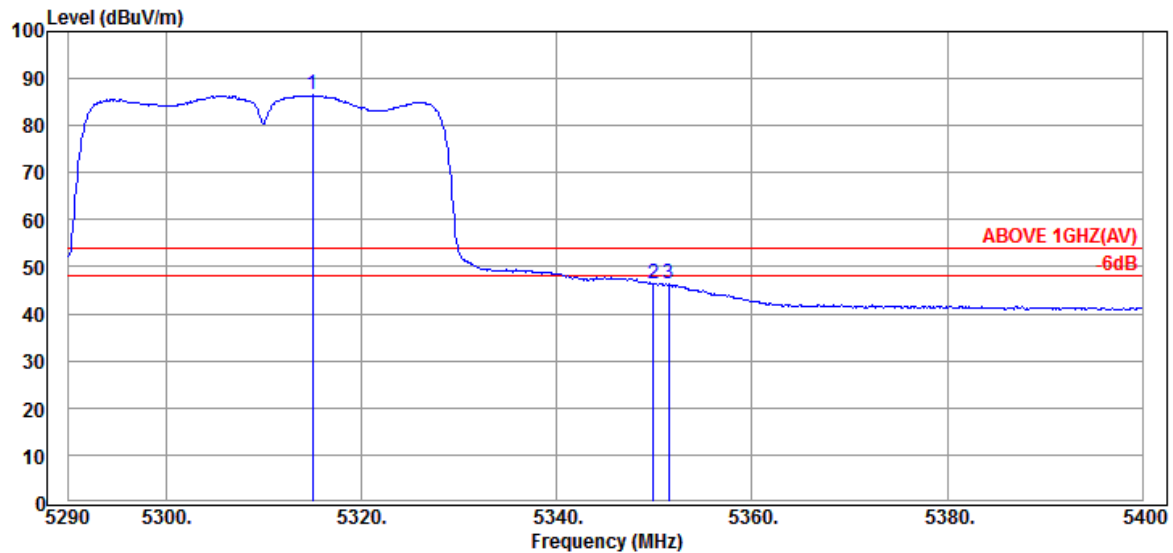
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 5310MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 5316.73	34.50	8.82	52.45	95.77	---	---	Peak
5349.95	34.50	8.84	16.22	59.56	74.00	14.44	Peak
5351.60	34.50	8.84	18.85	62.19	74.00	11.81	Peak

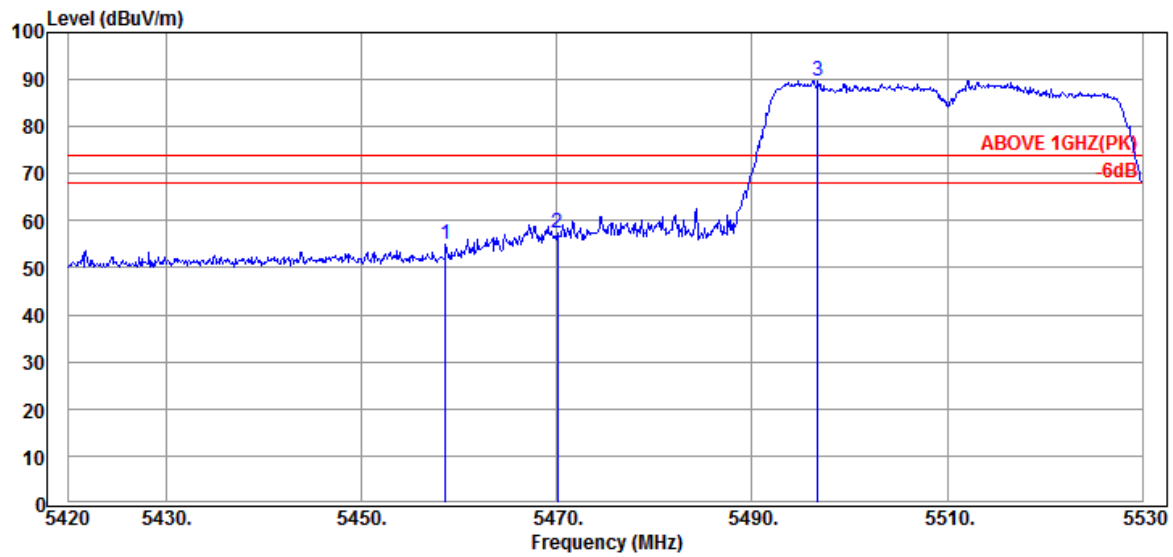


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 5314.97	34.50	8.82	43.16	86.48	---	---	Average
5349.95	34.50	8.84	3.07	46.41	54.00	7.59	Average
5351.49	34.50	8.84	2.94	46.28	54.00	7.72	Average

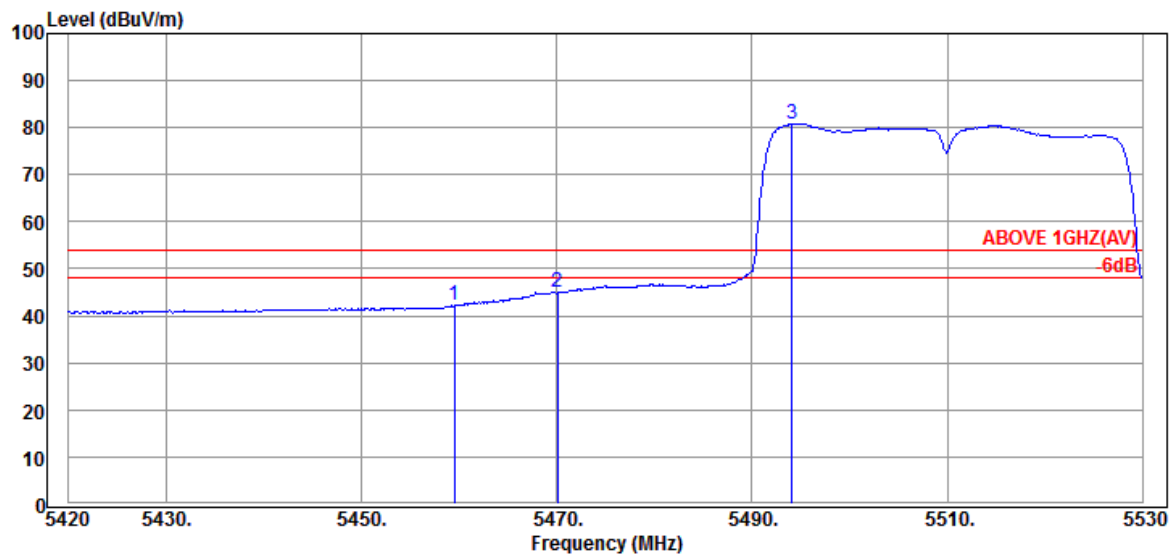
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 5510MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5458.61	34.50	8.90	11.51	54.91	74.00	19.09	Peak
5470.05	34.50	8.91	13.96	57.37	74.00	16.63	Peak
@ 5496.78	34.50	8.92	46.22	89.64	---	---	Peak

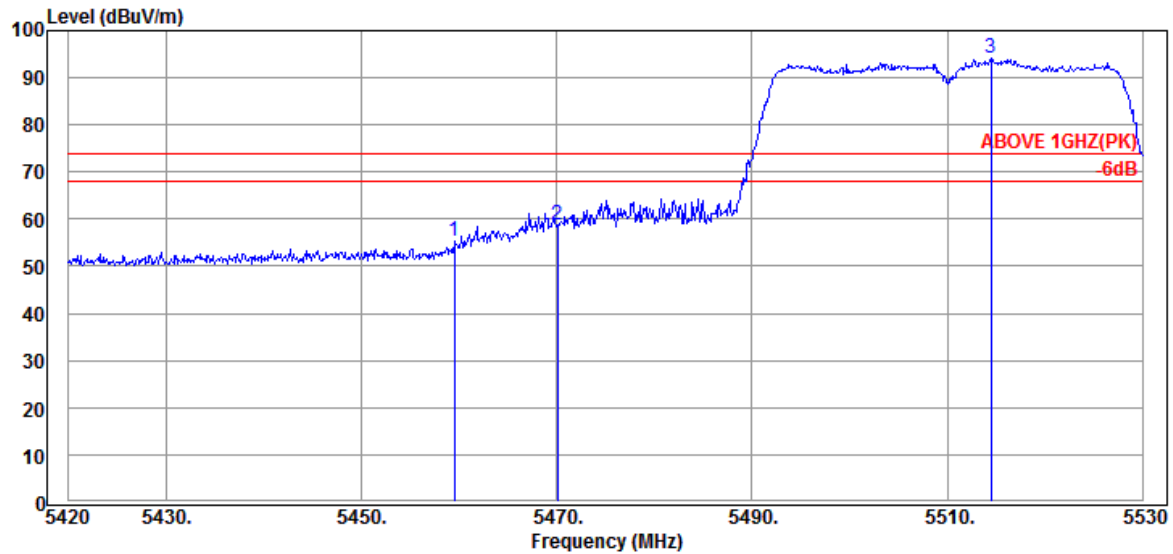


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.49	34.50	8.90	-1.19	42.21	54.00	11.79	Average
5470.05	34.50	8.91	1.52	44.93	54.00	9.07	Average
@ 5494.14	34.50	8.92	37.39	80.81	---	---	Average

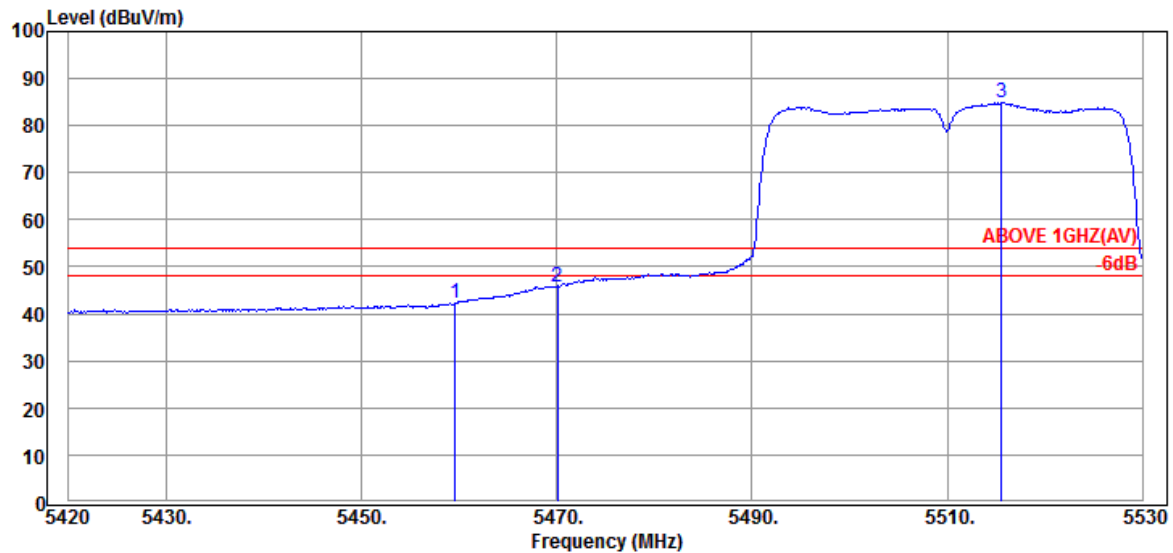
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 5510MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5459.49	34.50	8.90	11.88	55.28	74.00	18.72	Peak
5470.05	34.50	8.91	15.34	58.75	74.00	15.25	Peak
@ 5514.49	34.53	8.93	50.78	94.24	---	---	Peak

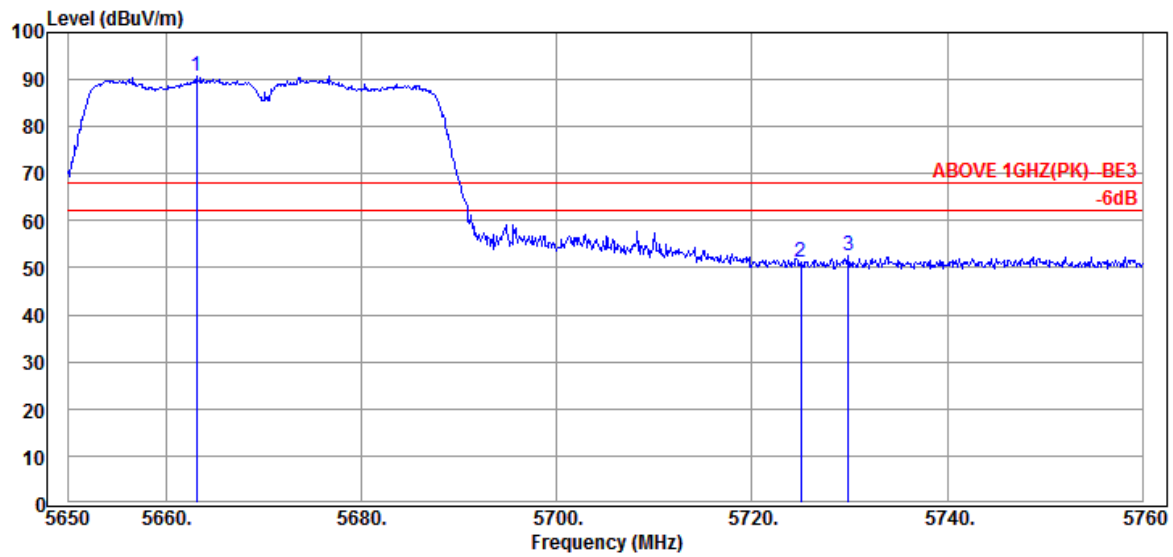


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5459.60	34.50	8.90	-1.05	42.35	54.00	11.65	Average
5470.05	34.50	8.91	2.41	45.82	54.00	8.18	Average
@ 5515.59	34.53	8.93	41.32	84.78	---	---	Average

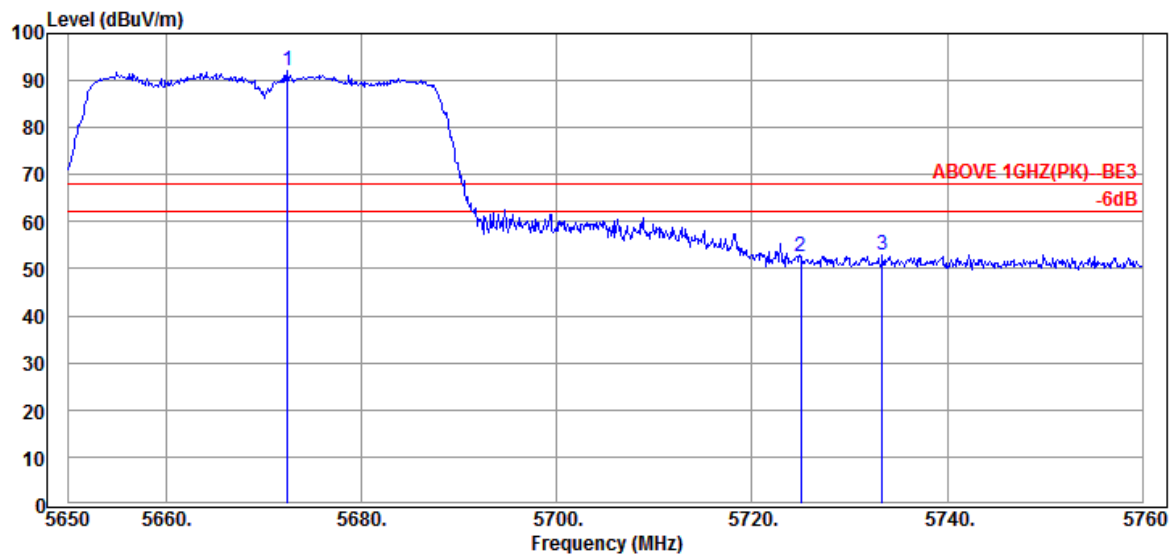
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11n-HT40	Frequency	TX 5670MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5663.09	34.55	9.01	47.33	90.89	---	---	Peak
	5725.02	34.40	9.04	7.85	51.29	68.20	16.91	Peak
	5729.86	34.40	9.04	9.05	52.49	68.20	15.71	Peak

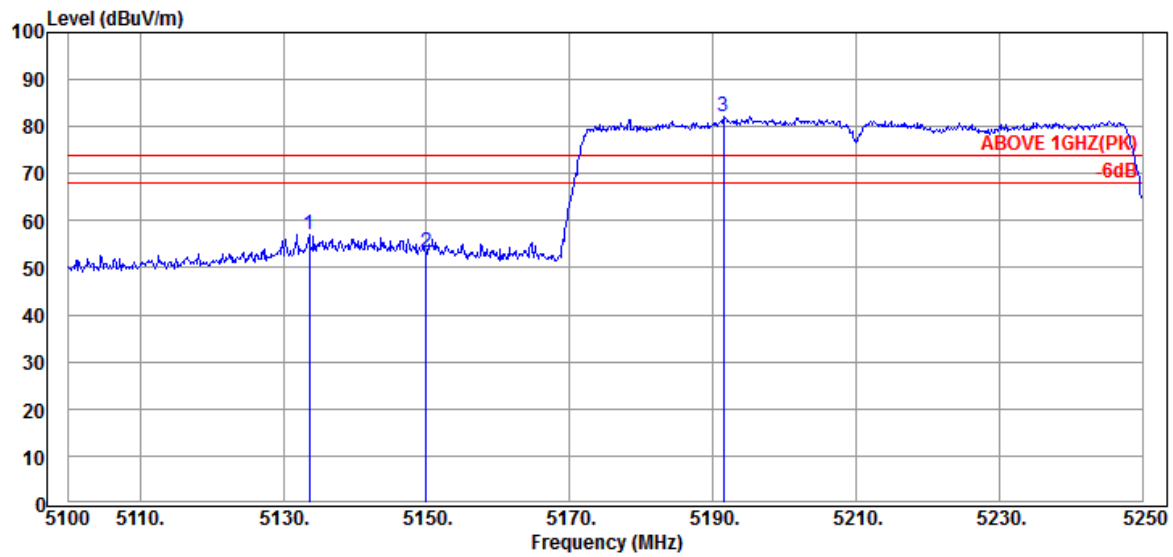


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5672.44	34.51	9.01	48.50	92.02	---	---	Peak
	5725.02	34.40	9.04	8.99	52.43	68.20	15.77	Peak
	5733.38	34.40	9.05	9.62	53.07	68.20	15.13	Peak

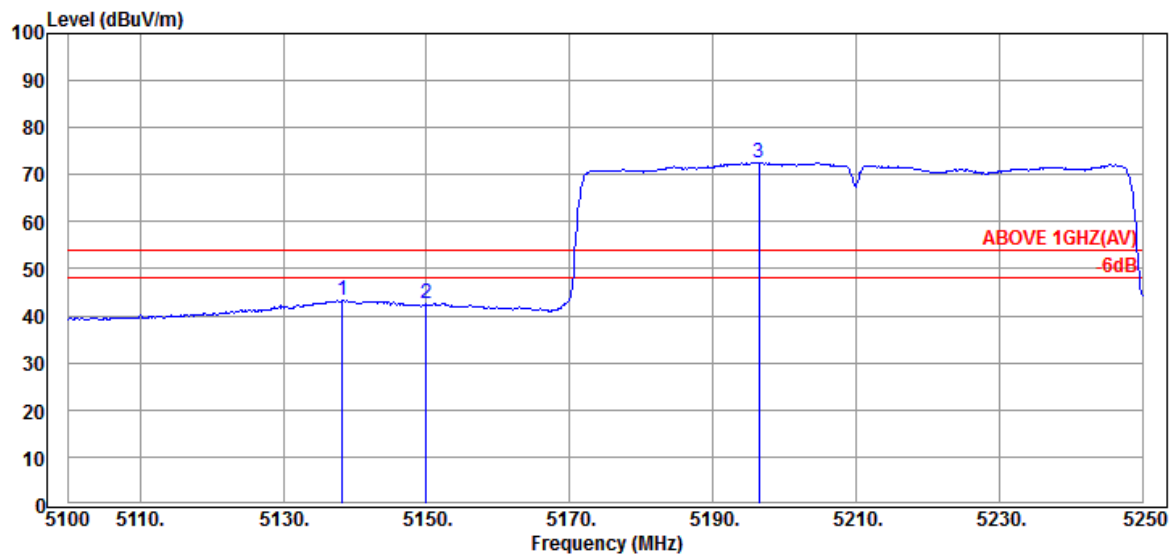
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11ac-VHT80	Frequency	TX 5210MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5133.60	33.87	8.72	14.44	57.03	74.00	16.97	Peak
5149.95	33.90	8.73	10.56	53.19	74.00	20.81	Peak
@ 5191.50	34.07	8.75	39.39	82.21	---	---	Peak

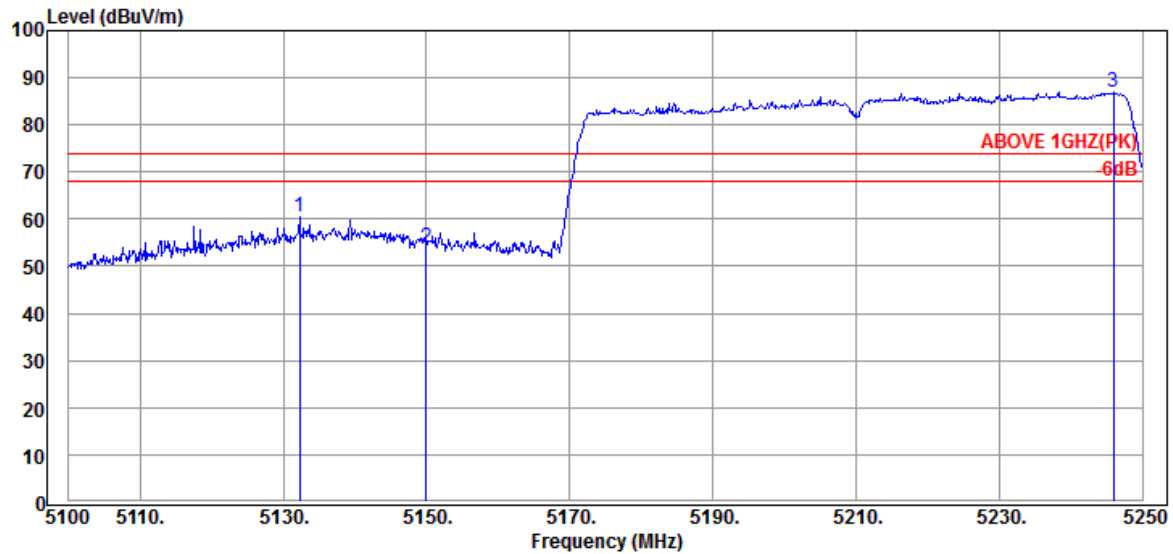


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5138.25	33.88	8.72	0.78	43.38	54.00	10.62	Average
5149.95	33.90	8.73	-0.12	42.51	54.00	11.49	Average
@ 5196.45	34.09	8.75	29.67	72.51	---	---	Average

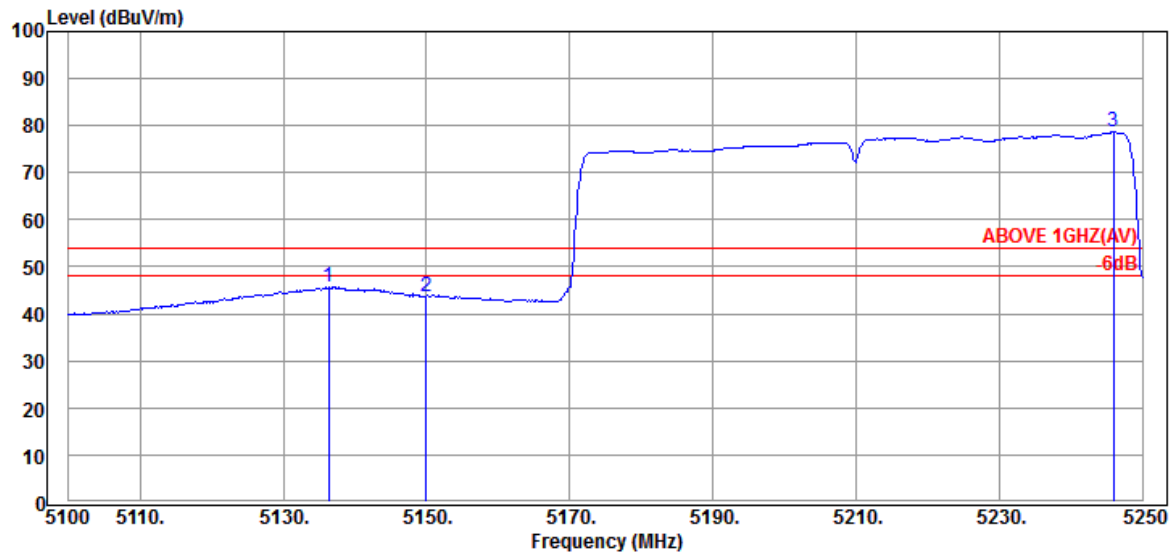
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11ac-VHT80	Frequency	TX 5210MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5132.25	33.86	8.72	17.95	60.53	74.00	13.47	Peak
5149.95	33.90	8.73	11.16	53.79	74.00	20.21	Peak
@ 5245.95	34.38	8.78	43.83	86.99	---	---	Peak

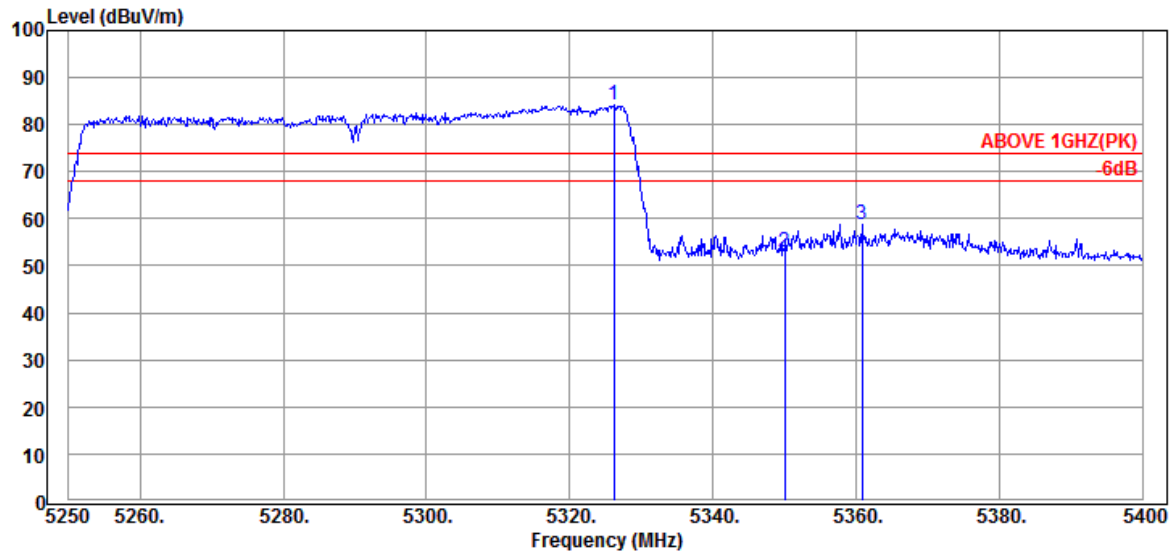


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5136.30	33.87	8.72	3.06	45.65	54.00	8.35	Average
5149.95	33.90	8.73	1.12	43.75	54.00	10.25	Average
@ 5245.95	34.38	8.78	35.40	78.56	---	---	Average

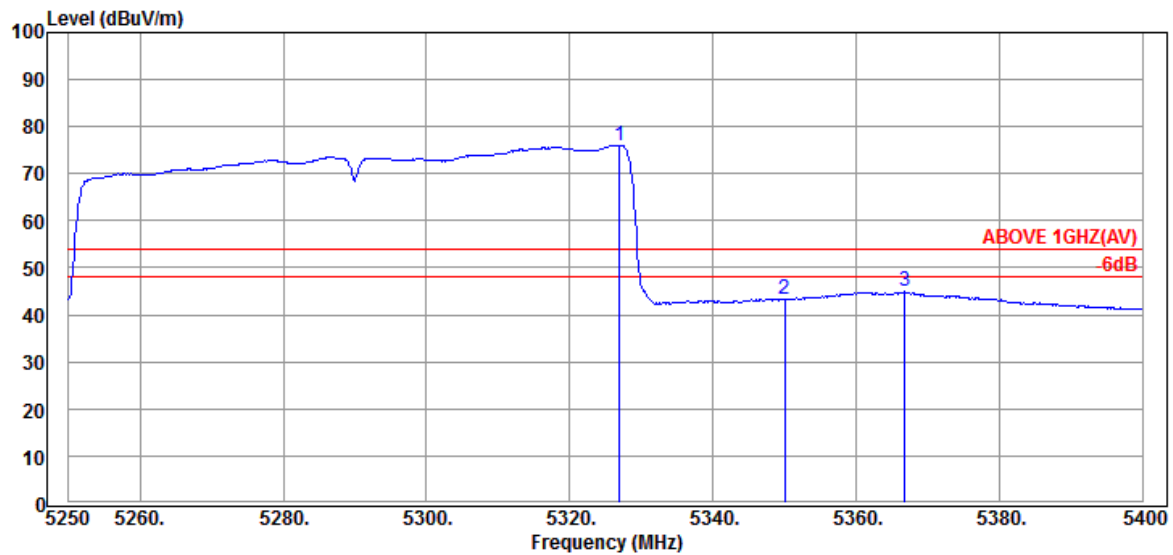
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11ac-VHT80	Frequency	TX 5290MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5326.20	34.50	8.83	40.90	84.23	---	---	Peak
	5350.05	34.50	8.84	9.69	53.03	74.00	20.97	Peak
	5360.85	34.50	8.85	15.49	58.84	74.00	15.16	Peak

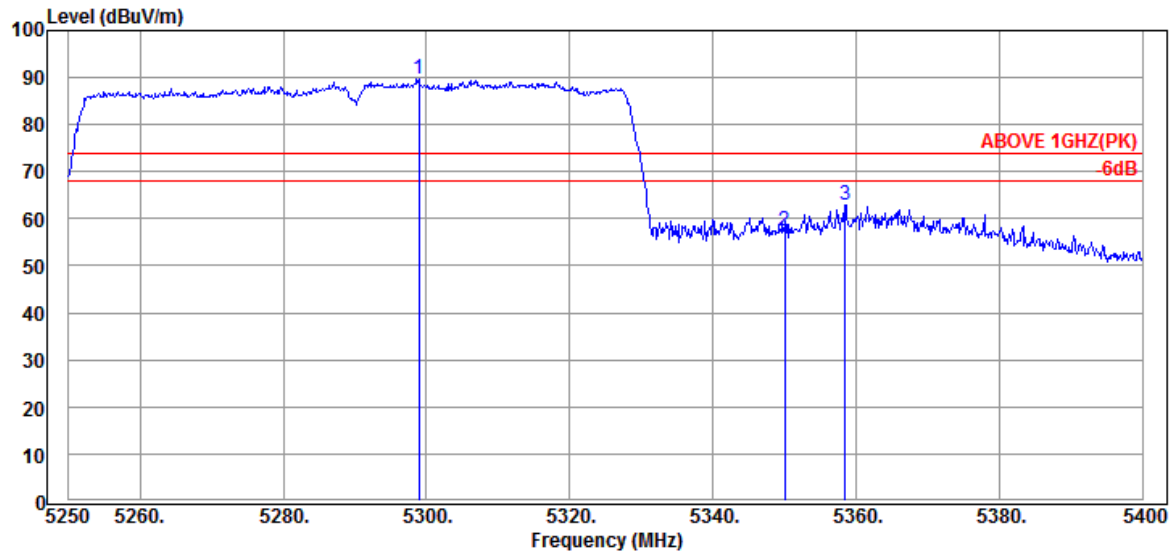


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5326.95	34.50	8.83	32.78	76.11	---	---	Average
	5350.05	34.50	8.84	-0.09	43.25	54.00	10.75	Average
	5366.85	34.50	8.85	1.53	44.88	54.00	9.12	Average

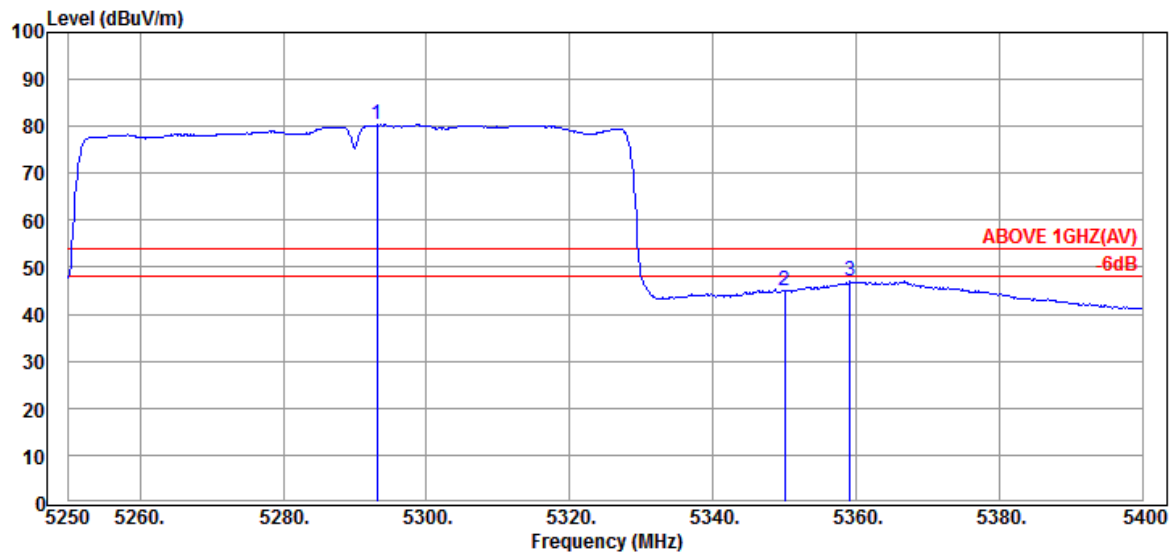
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11ac-VHT80	Frequency	TX 5290MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5298.90	34.50	8.81	46.47	89.78	---	---	Peak
	5350.05	34.50	8.84	14.18	57.52	74.00	16.48	Peak
	5358.45	34.50	8.85	19.45	62.80	74.00	11.20	Peak

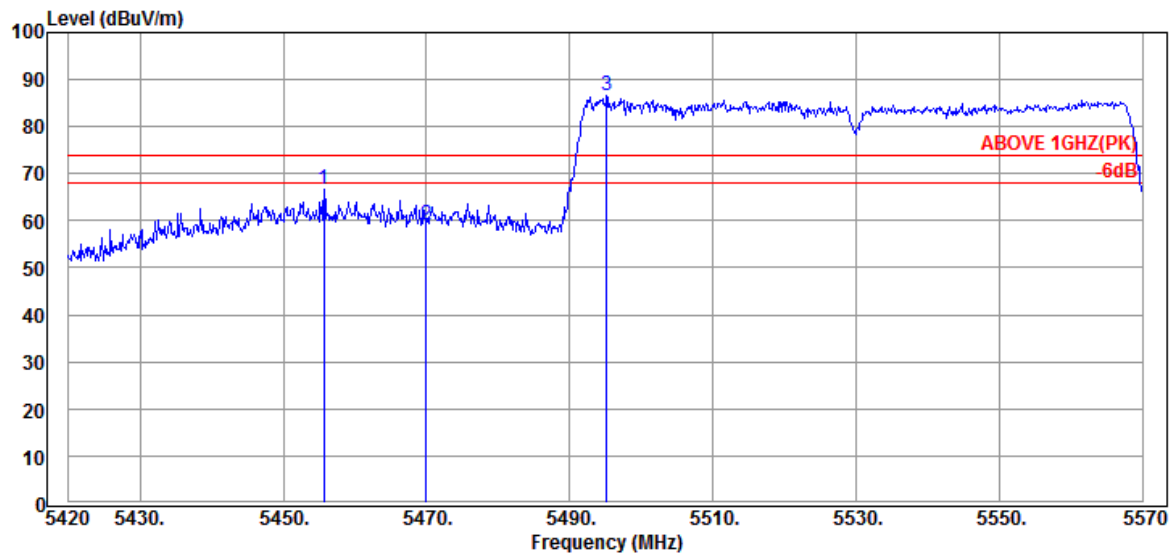


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	5293.05	34.49	8.81	37.04	80.34	---	---	Average
	5350.05	34.50	8.84	1.58	44.92	54.00	9.08	Average
	5359.20	34.50	8.85	3.61	46.96	54.00	7.04	Average

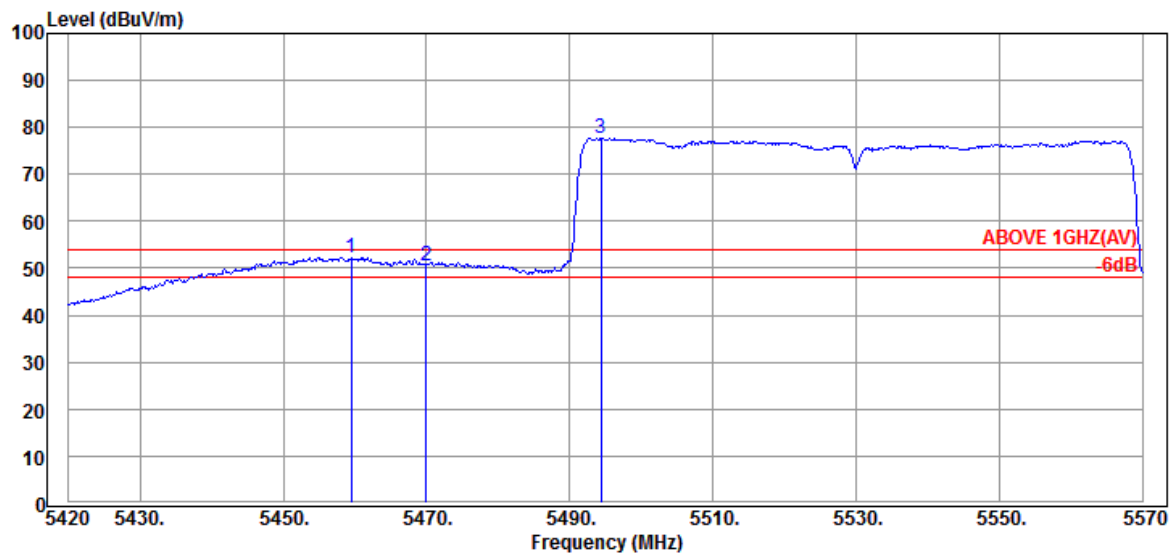
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11ac-VHT80	Frequency	TX 5530MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5455.70	34.50	8.90	23.20	66.60	74.00	7.40	Peak
5469.95	34.50	8.91	15.55	58.96	74.00	15.04	Peak
@ 5495.15	34.50	8.92	43.17	86.59	---	---	Peak

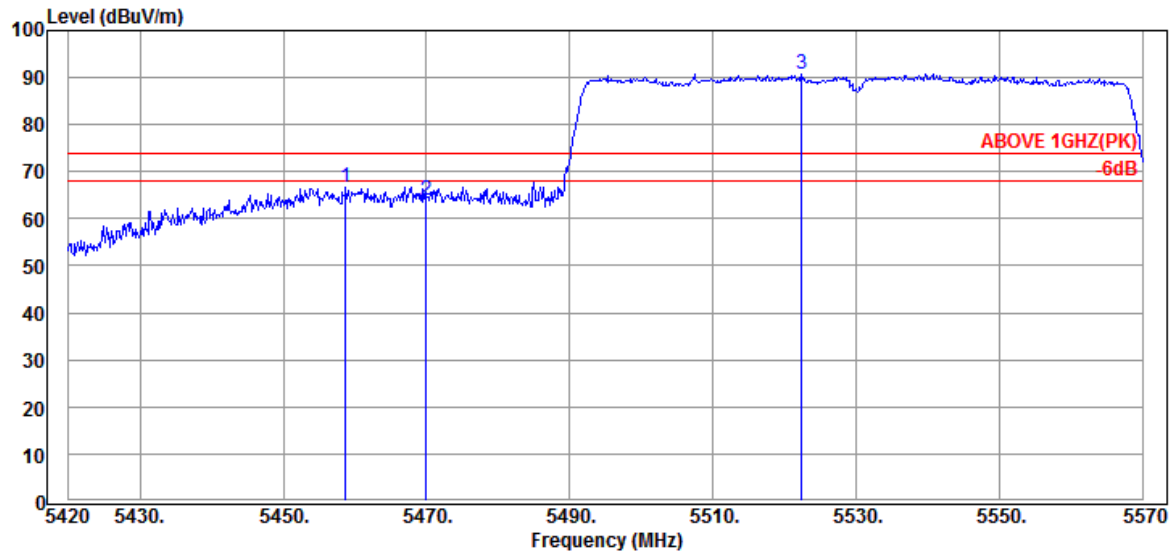


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.45	34.50	8.90	8.91	52.31	54.00	1.69	Average
5469.95	34.50	8.91	7.26	50.67	54.00	3.33	Average
@ 5494.40	34.50	8.92	34.27	77.69	---	---	Average

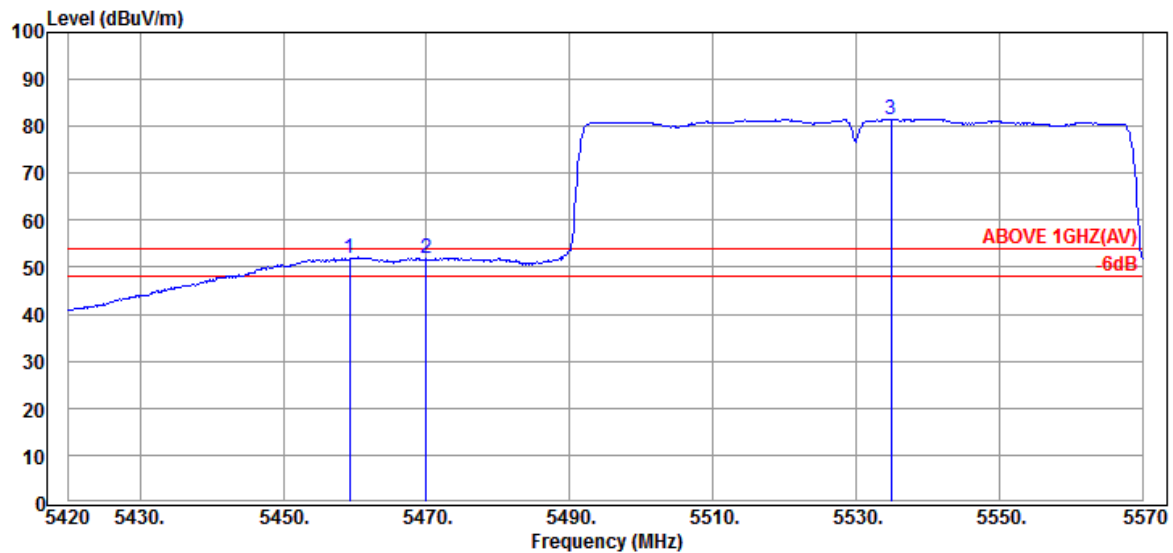
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11ac-VHT80	Frequency	TX 5530MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5458.70	34.50	8.90	23.25	66.65	74.00	7.35	Peak
5469.95	34.50	8.91	20.41	63.82	74.00	10.18	Peak
@ 5522.45	34.54	8.93	47.41	90.88	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
5459.30	34.50	8.90	8.47	51.87	54.00	2.13	Average
5469.95	34.50	8.91	8.31	51.72	54.00	2.28	Average
@ 5534.90	34.57	8.94	37.99	81.50	---	---	Average

備註：“@”為主波，在此章節是不予以判定。

2. 最大輸出功率及 26dB/6dB 頻寬之量測

測試日期	2019/10/30	環境溫/濕度	23°C/53%
電纜損失	1.5dB	測試電壓	DC 12V (經 DC 電源供應器供電)
Duty Cycle Factor	0	測試人員	Kuper Hsu

2.1. 最大輸出功率及 26dB/6dB 頻寬

模式 802.11a	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	26dB	99%					
UNII Band I	5180	19.26	16.529	8.50	0	8.50	24	N/A
	5200	19.63	16.536	8.38		8.38		
	5240	19.19	16.531	8.45		8.45		
UNII Band II	5260	19.35	16.558	8.18		8.18		23.87
	5300	19.45	16.500	8.05		8.05		23.89
	5320	19.40	16.564	7.88		7.88		23.88
UNII Band III	5500	19.13	16.563	10.49		10.49		23.82
	5580	19.29	16.572	12.24		12.24		23.85
	5700	19.53	16.572	12.86		12.86		23.91
模式 802.11a	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average 輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	6dB	99%					
UNII Band IV	5745	16.56	16.474	13.65	0	13.65	30	N/A
	5785	16.51	16.465	13.86		13.86		
	5825	16.60	16.494	14.05		14.05		

註: 當Duty cycle<98%, 最大輸出功率必需要加上duty cycle factor $10\log(1/x)$ 。
(x=duty cycle, B=26dB發射頻寬)

模式 802.11n-HT20	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	26dB	99%					
UNII Band I	5180	19.72	17.619	8.32	0	8.32	24	N/A
	5200	20.04	17.620	8.34		8.34		
	5240	19.94	17.634	8.18		8.18		
UNII Band II	5260	19.88	17.621	8.09		8.09		23.98
	5300	19.99	17.639	8.06		8.06		24.01
	5320	19.75	17.616	8.03		8.03		23.96
UNII Band III	5500	19.98	17.628	10.51		10.51		24.01
	5580	19.89	17.642	12.26		12.26		23.99
	5700	19.71	17.640	12.95		12.95		23.95
模式 802.11n-HT20	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average 輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	6dB	99%					
UNII Band IV	5745	17.71	17.601	13.59	0	13.59	30	N/A
	5785	17.67	17.606	13.89		13.89		
	5825	17.70	17.609	14.13		14.13		

註: 當Duty cycle<98%, 最大輸出功率必需要加上duty cycle factor 10log(1/x)。
(x=duty cycle, B=26dB發射頻寬)

模式 802.11n-HT40	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	26dB	99%					
UNII Band I	5190	39.78	36.064	7.66	0	7.66	24	N/A
	5230	39.94	36.113	6.54		6.54		
UNII Band II	5270	40.50	36.061	7.40		7.40		27.07
	5310	40.39	36.132	5.58		5.58		27.06
UNII Band III	5510	39.95	36.127	9.98		9.98		27.02
	5550	40.50	36.137	11.06		11.06		27.07
	5670	40.17	36.156	12.48		12.48		27.04
模式 802.11n-HT40	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average 輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	6dB	99%					
UNII Band IV	5755	36.46	36.118	13.02	0	13.02	30	N/A
	5795	36.46	36.105	13.42		13.42		
註: 當Duty cycle<98%, 最大輸出功率必需要加上duty cycle factor 10log(1/x)。								
(x=duty cycle, B=26dB發射頻寬)								

模式 802.11ac- VHT80	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	26dB	99%					
UNII Band I	5210	81.45	76.100	6.51	0	6.51	24	N/A
UNII Band II	5290	81.46	76.162	6.23		6.23		30.11
UNII Band III	5530	81.07	76.093	12.53		12.53		30.09
	5610	81.05	76.046	12.79		12.79		30.09
模式 802.11ac- VHT80	測試頻率	發射頻寬(MHz)		Average輸出功率 (dBm)	10 log (1/X)	Average輸出功率 (dBm)	限制值 (dBm)	限制值 (11dBm+10 log B)
	(MHz)	6dB	99%					
UNII Band IV	5775	76.69	76.459	13.97	0	13.97	30	N/A

註: 當Duty cycle<98%, 最大輸出功率必需要加上duty cycle factor 10log(1/x)。

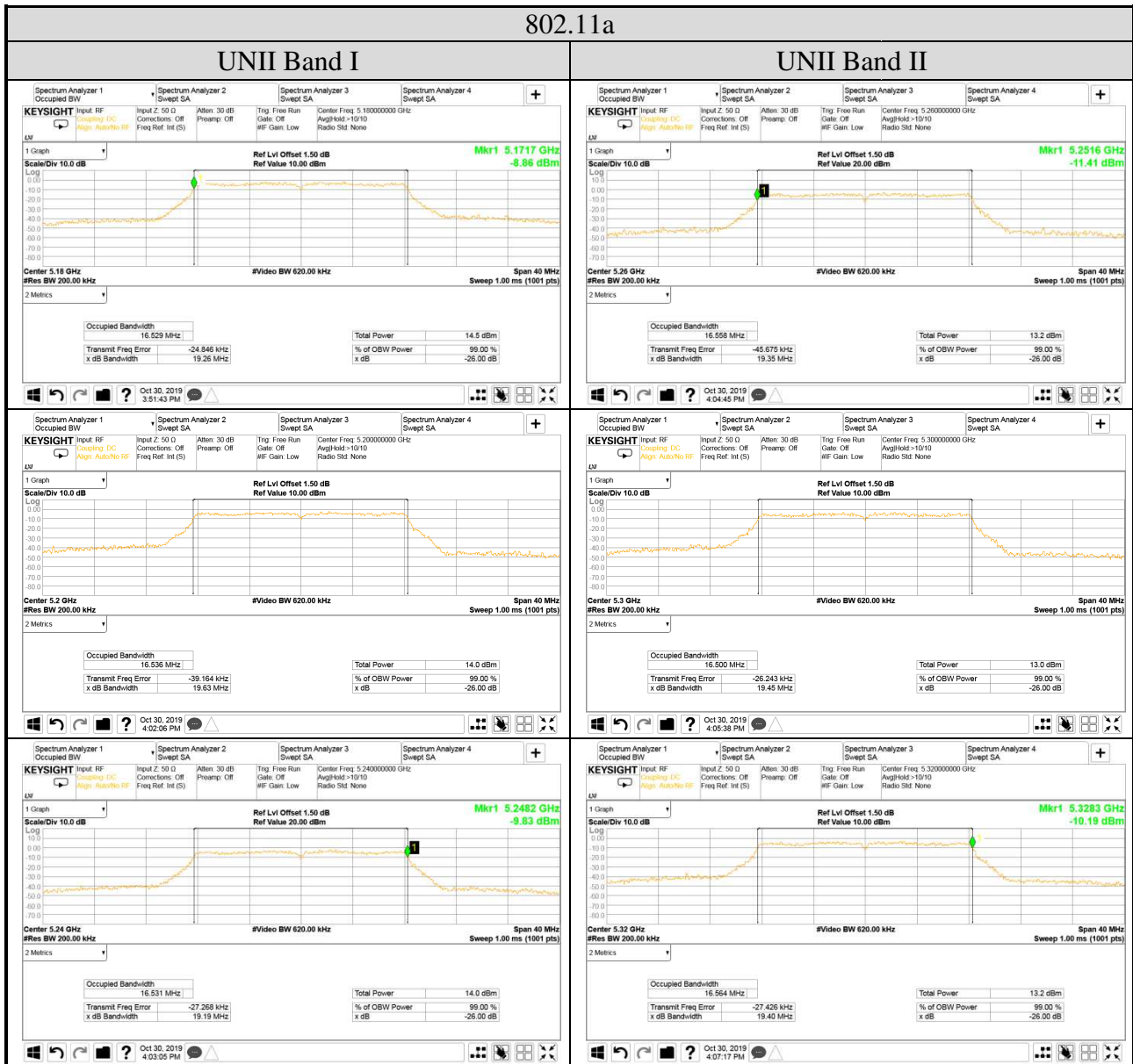
2.2. 最大輸出功率及 26dB/6dB 頻寬之量測圖

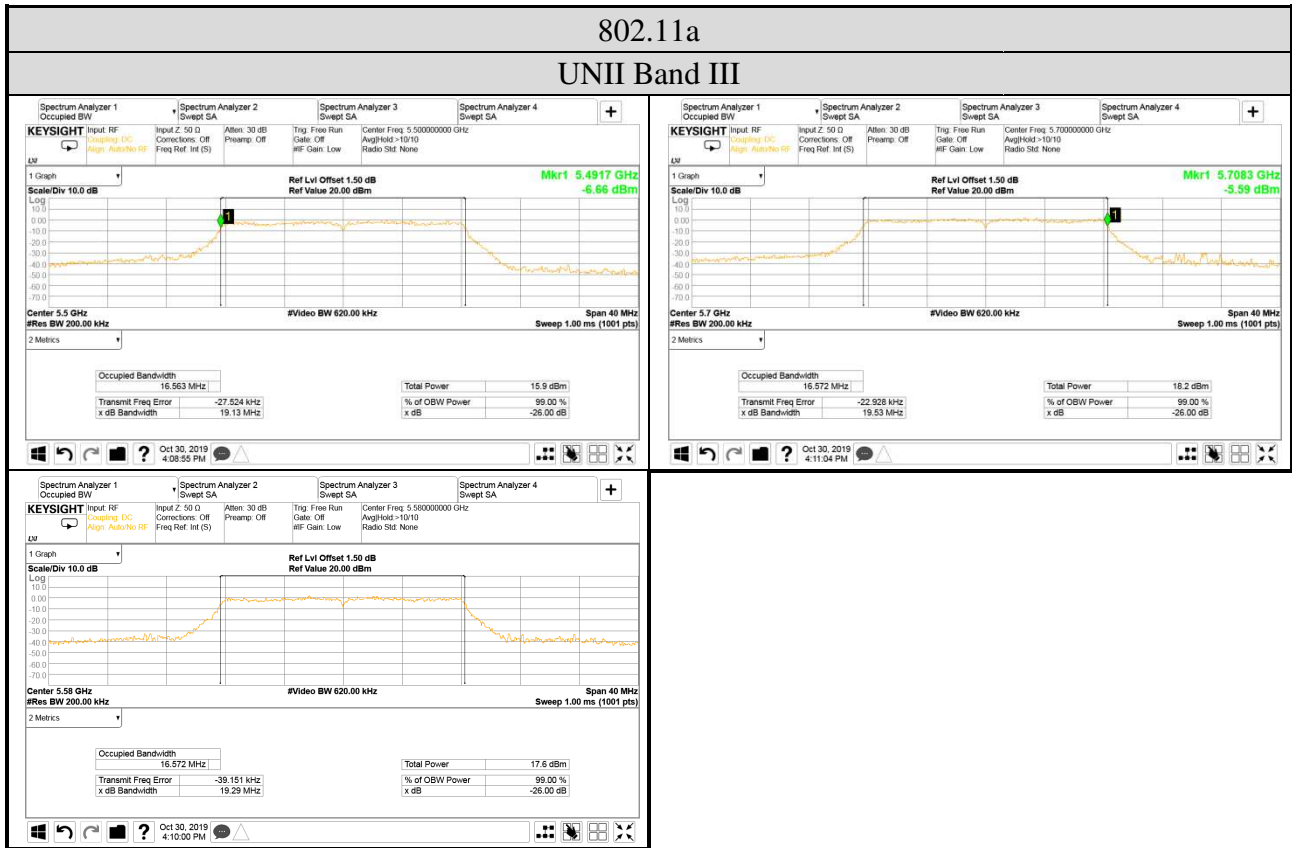
● 最大輸出功率(平均值)

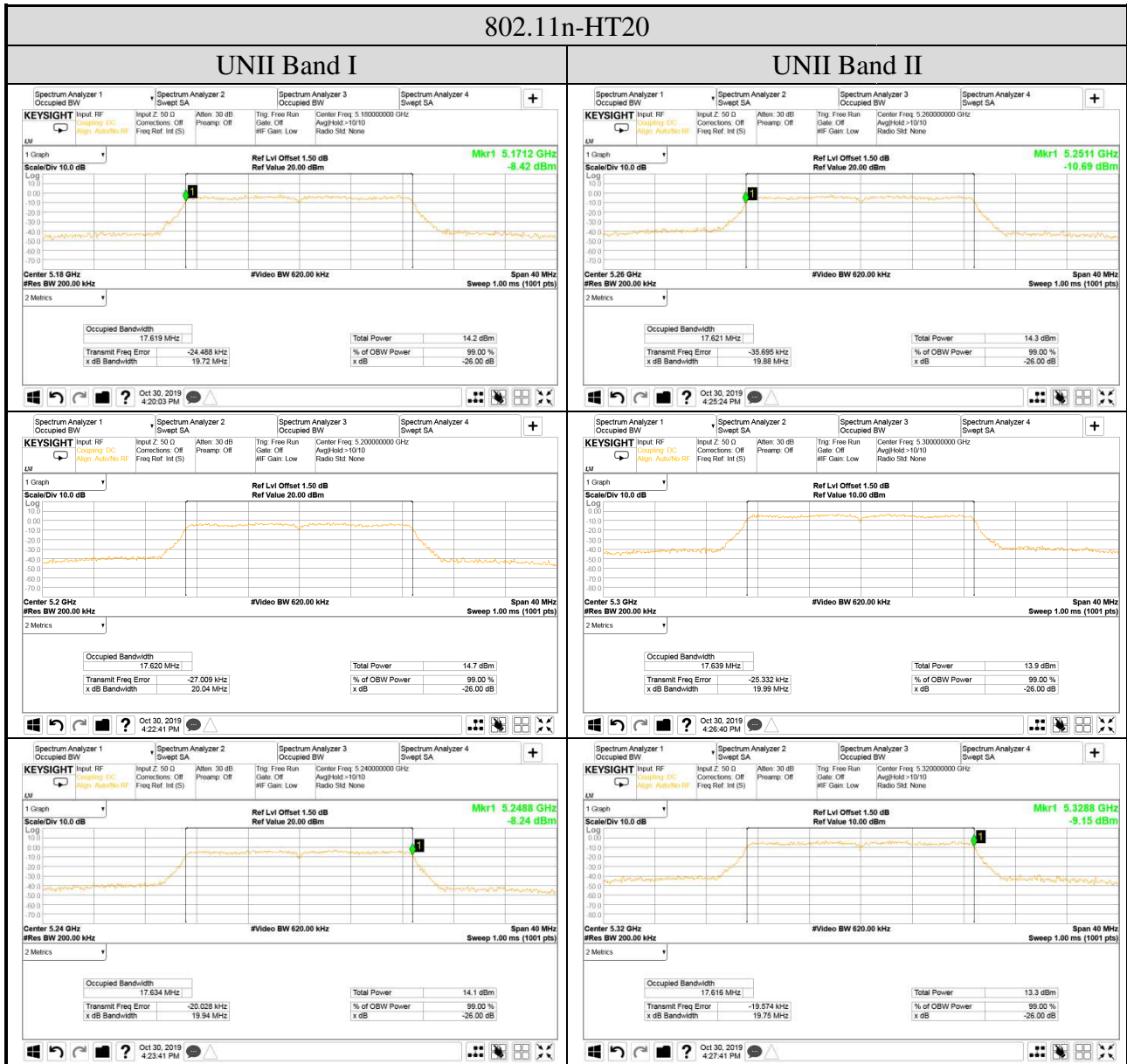


● 26dB 頻寬 (UNII Band I~III)

802.11a







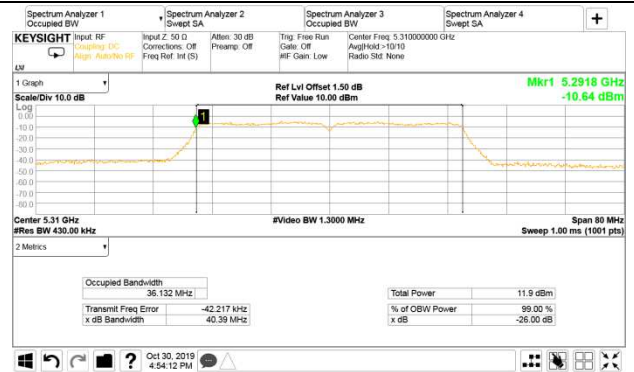
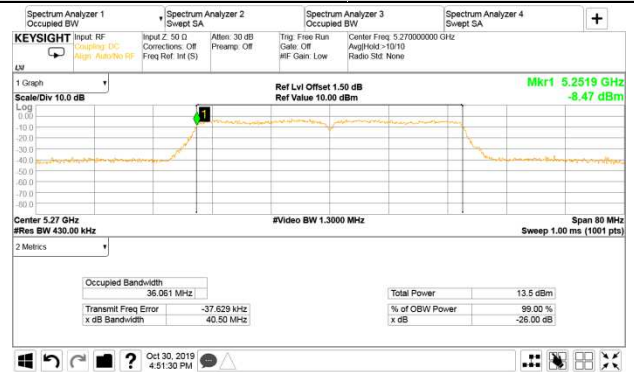


802.11n-HT40

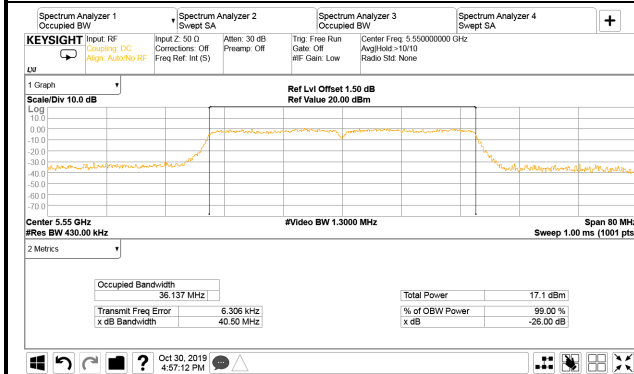
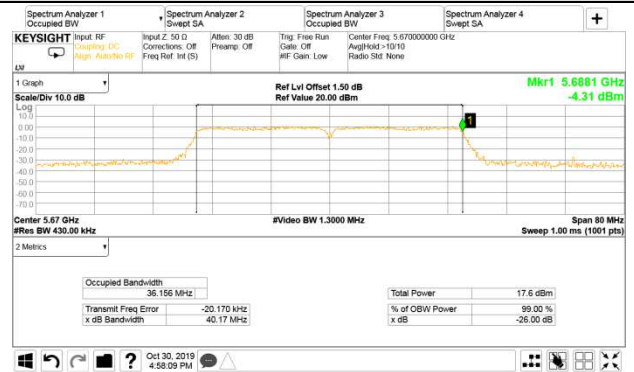
UNII Band I

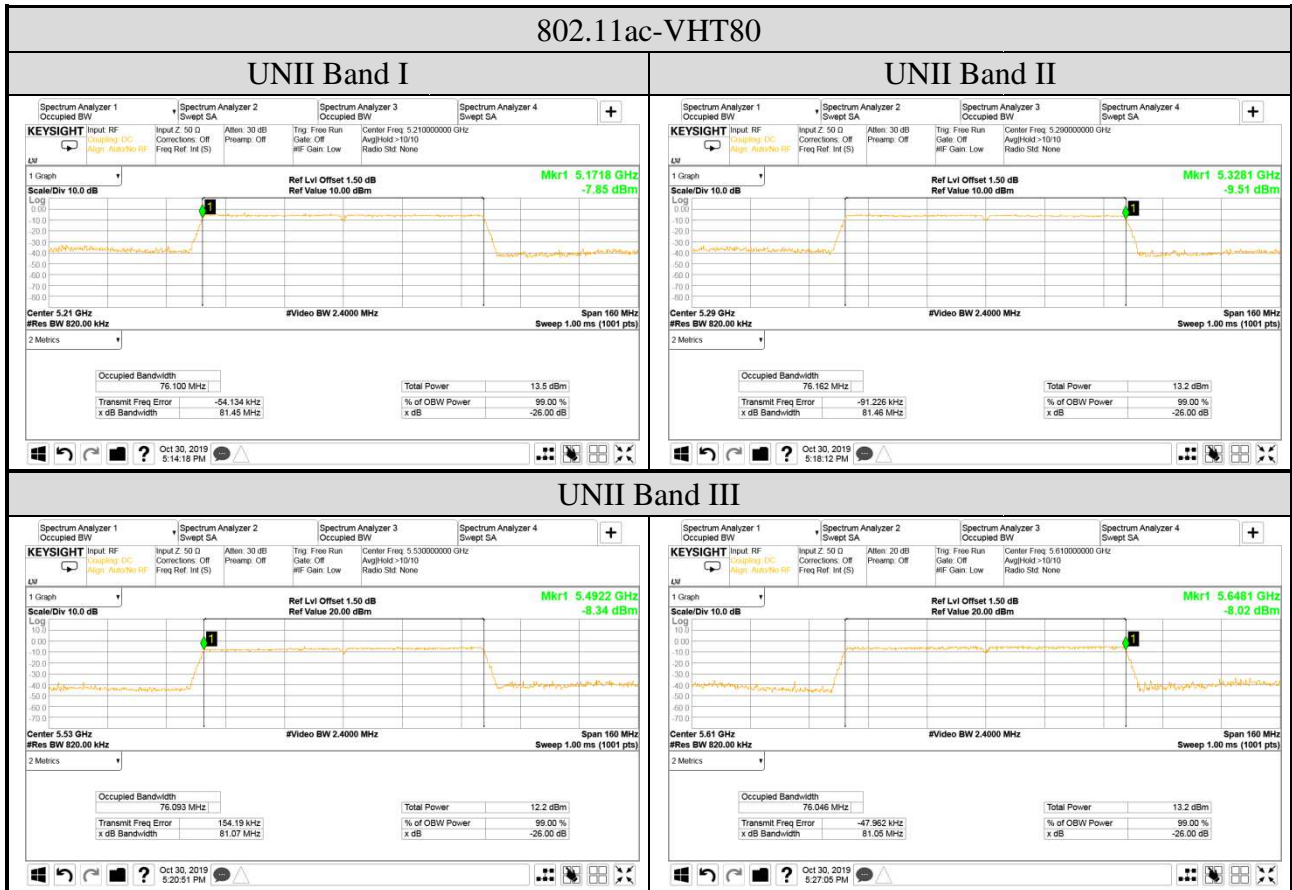


UNII Band II

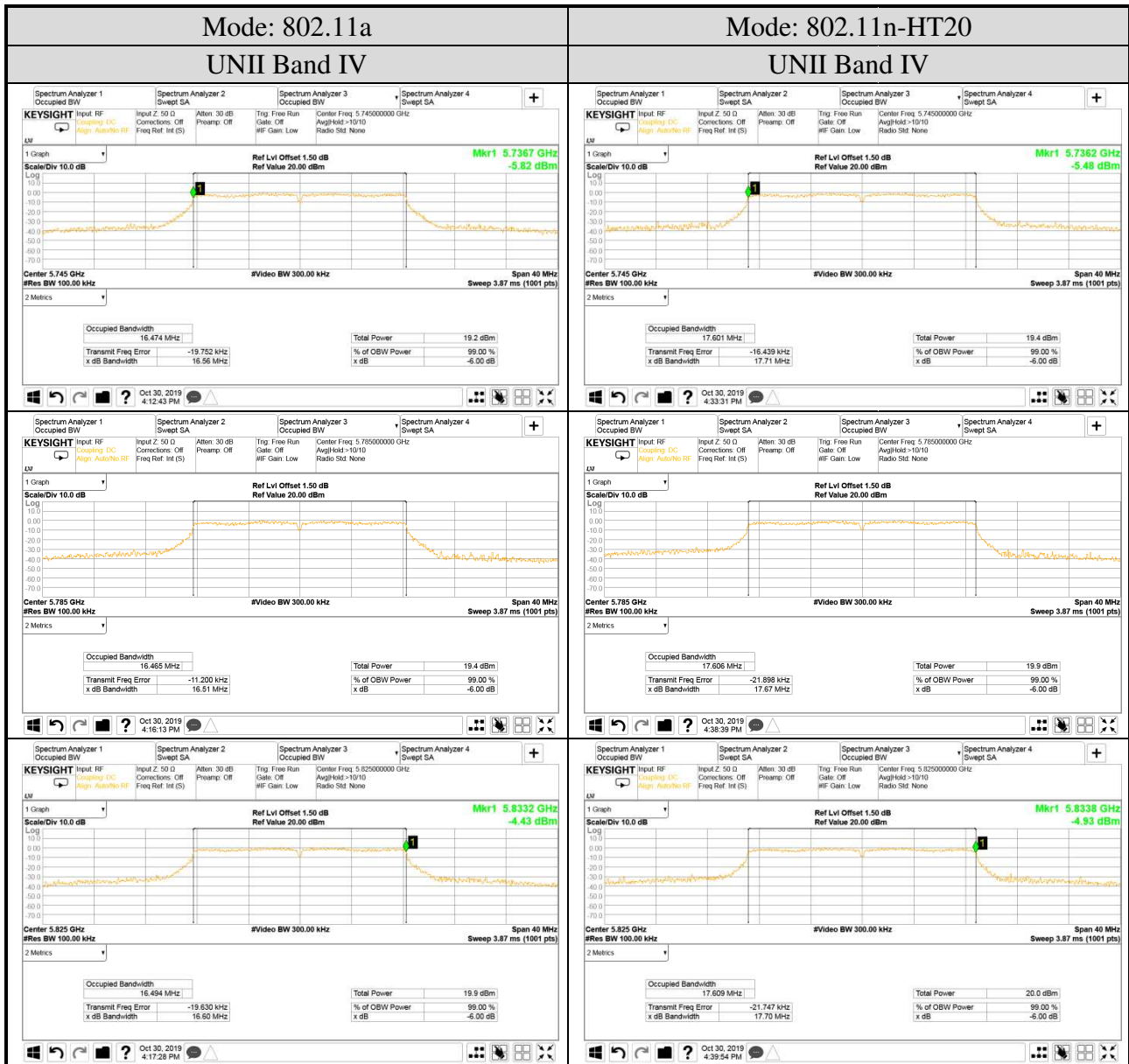


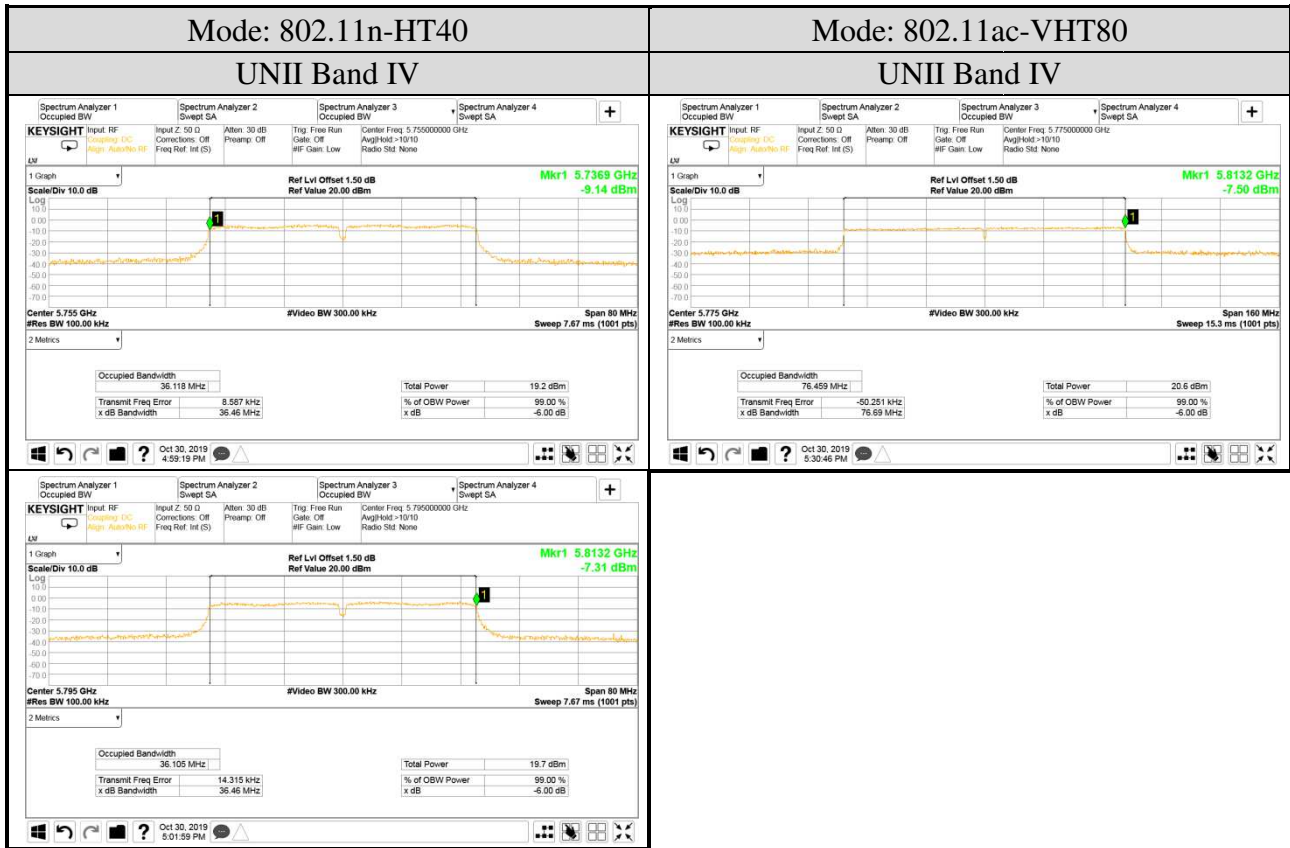
UNII Band III





● 6dB 頻寬





3. 峰值功率頻譜密度之量測

測試日期	2019/10/30	環境溫/濕度	23°C/53%
電纜損失	1.5dB	測試電壓	DC 12V (經 DC 電源供應器供電)
Duty Cycle Factor	0	測試人員	Kuper Hsu
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			0

3.1. 峰值功率頻譜密度

模式	UNII Band	測試頻率(MHz)	峰值功率頻譜密度		限制值
			(dBm/1MHz)	(dBm/500kHz)	
802.11a	I	5180	-1.992	--	11dBm/MHz
		5200	-2.097	--	
		5240	-2.322	--	
	II	5260	-2.503	--	
		5300	-2.831	--	
		5320	-3.003	--	
	III	5500	-0.062	--	
		5580	1.496	--	
		5700	1.776	--	
	IV ^{Note2}	5745	--	0.498	30dBm/500kHz
		5785	--	0.758	
		5825	--	1.140	
802.11n- HT20	I	5180	-2.195	--	11dBm/MHz
		5200	-2.472	--	
		5240	-2.414	--	
	II	5260	-2.602	--	
		5300	-3.123	--	
		5320	-3.233	--	
	III	5500	-0.650	--	
		5580	1.416	--	
		5700	1.602	--	
	IV ^{Note2}	5745	--	0.311	30dBm/500kHz
		5785	--	0.881	
		5825	--	1.110	

Note 1: All results have been included cable loss and Simultaneous Factor and correct duty factor.

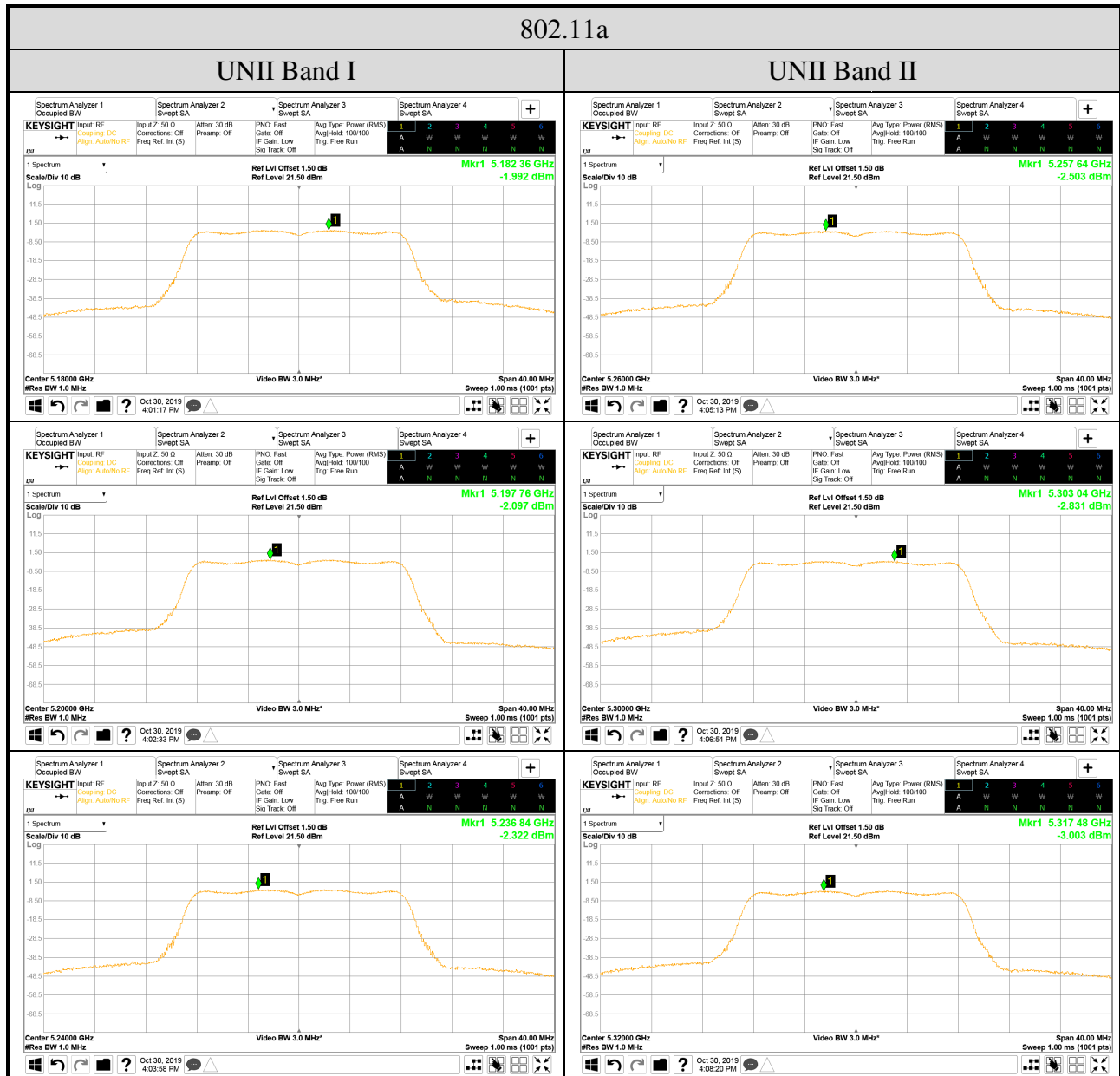
Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

模式	UNII Band	測試頻率(MHz)	峰值功率頻譜密度		限制值
			(dBm/1MHz)	(dBm/500kHz)	
802.11n- HT40	I	5190	-6.129	--	11dBm/MHz
		5230	-7.312	--	
	II	5270	-6.599	--	
		5310	-8.854	--	
	III	5510	-3.901	--	
		5550	-3.110	--	
		5670	-1.948	--	
	IV ^{Note2}	5755	--	-3.129	30dBm/500kHz
		5795	--	-2.764	
802.11ac- VHT80	I	5210	-11.136	--	11dBm/MHz
	II	5290	-11.599	--	
	III	5530	-4.920	--	
		5610	-4.714	--	
	IV ^{Note2}	5775	---	-6.498	30dBm/500kHz

Note 1: All results have been included cable loss and Simultaneous Factor and correct duty factor.

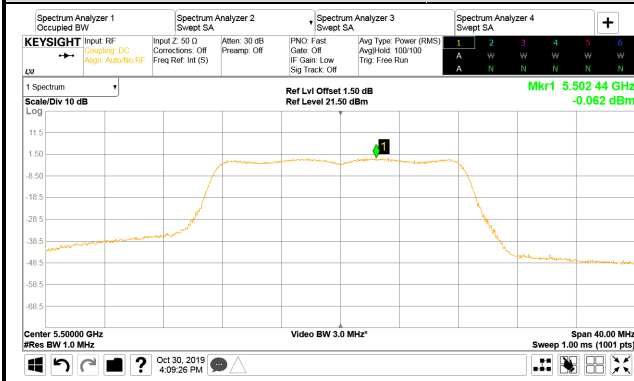
Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

3.2. 峰值功率頻譜密度之量測圖

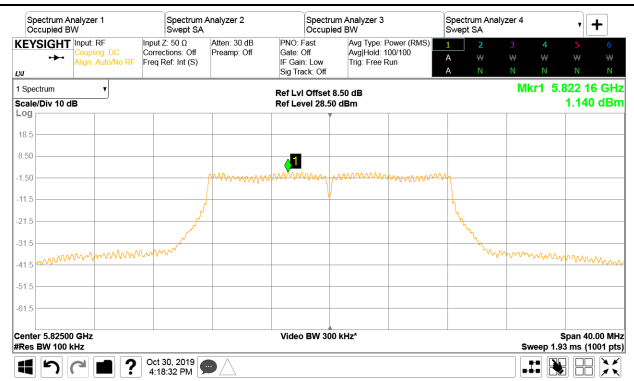
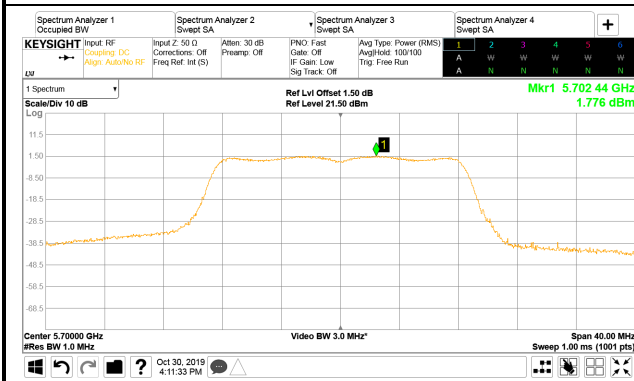
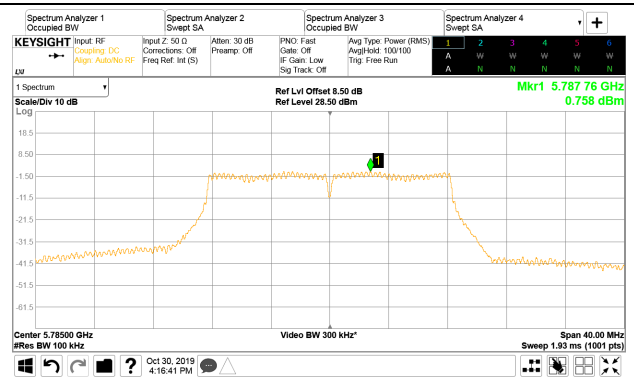
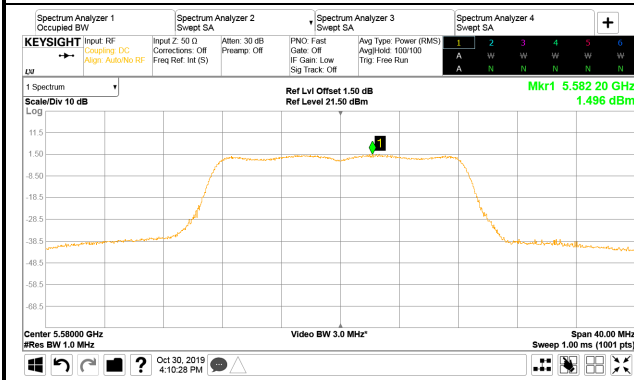
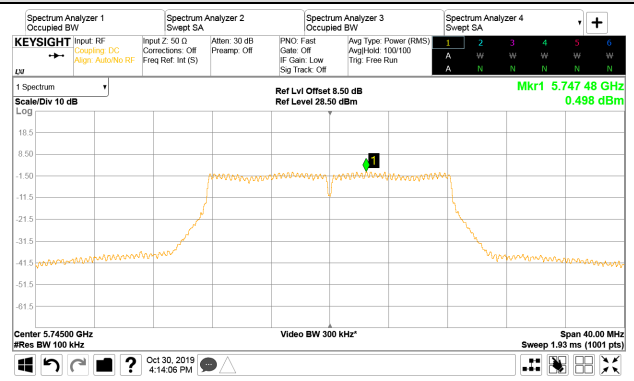


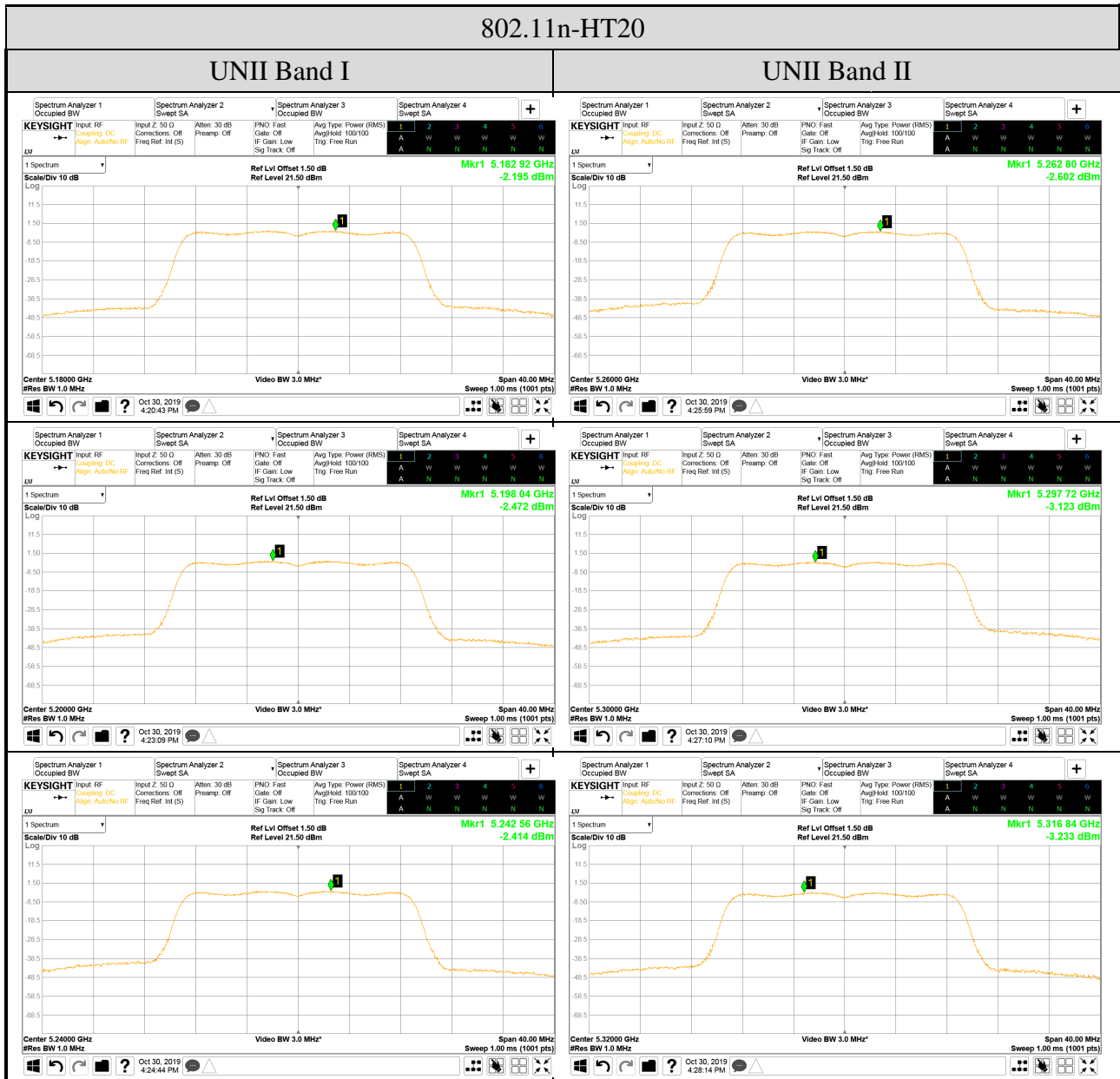
802.11a

UNII Band III



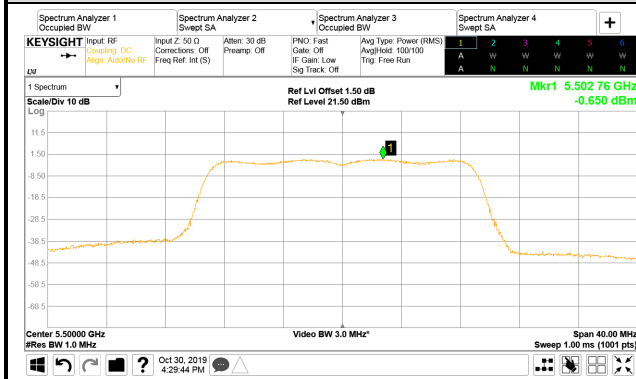
UNII Band IV



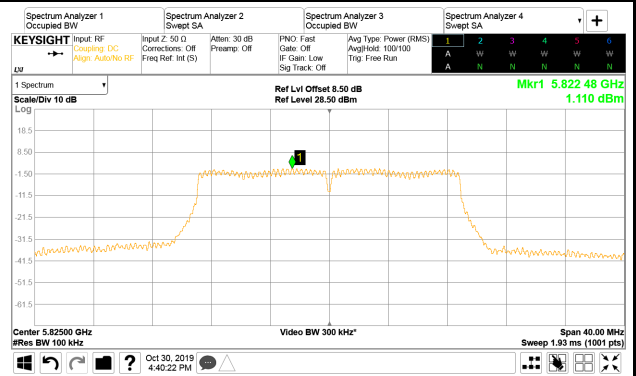
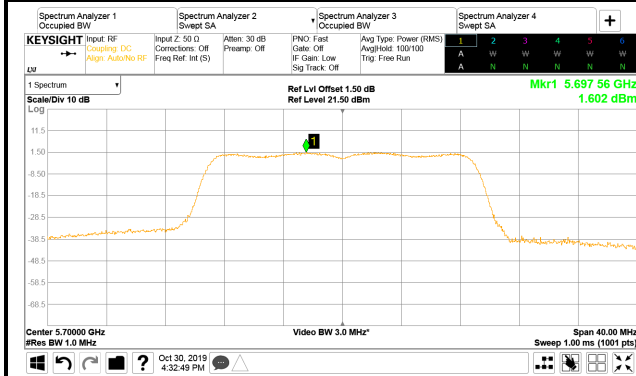
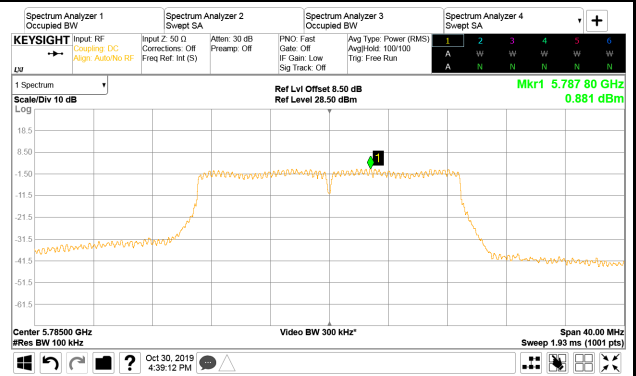
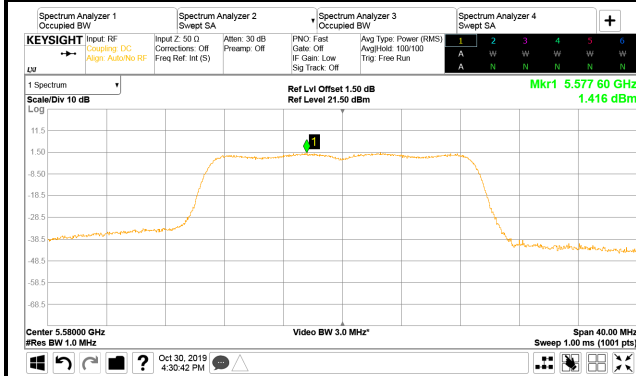
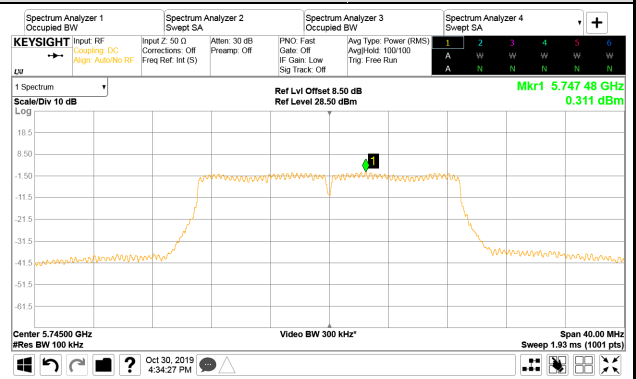


802.11n-HT20

UNII Band III

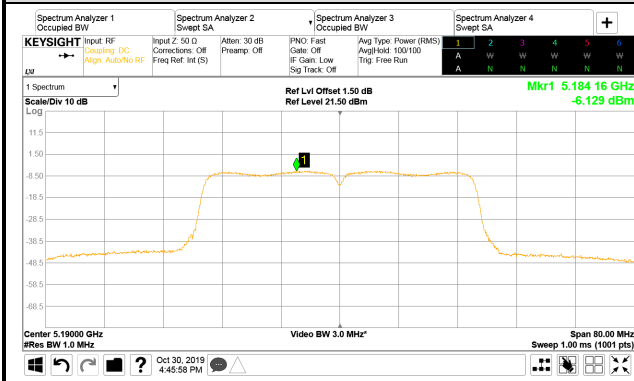


UNII Band IV

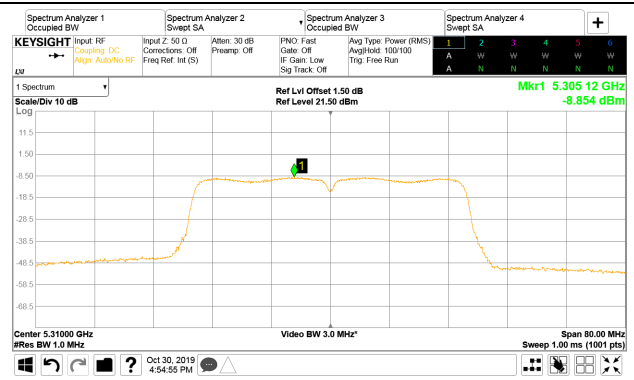
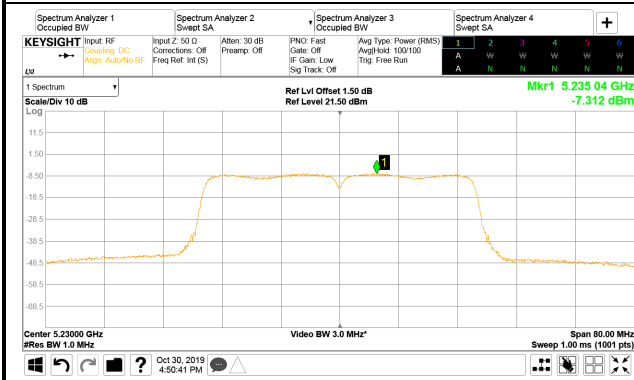
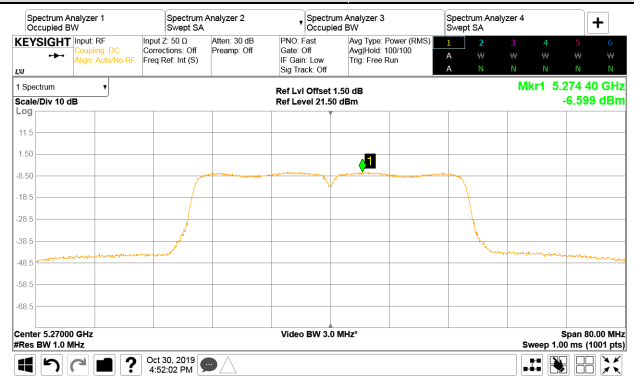


802.11n-HT40

UNII Band I

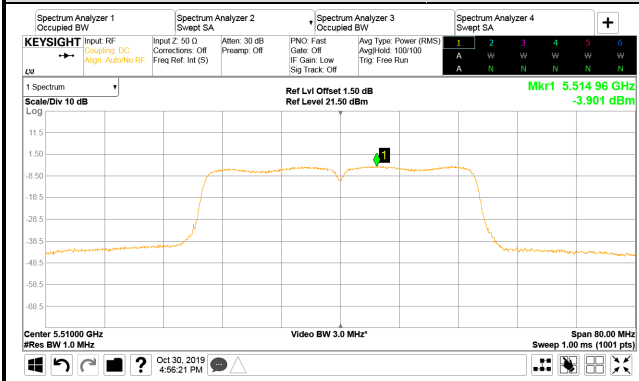


UNII Band II

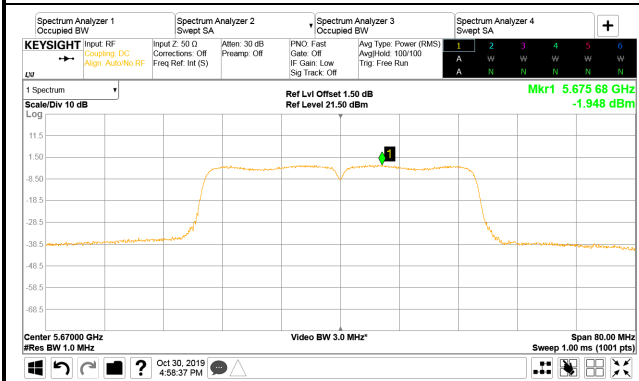
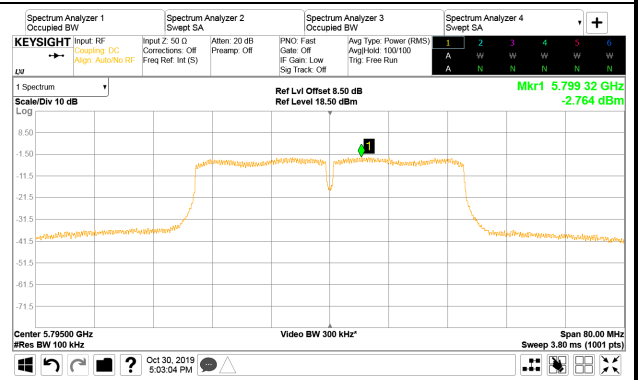
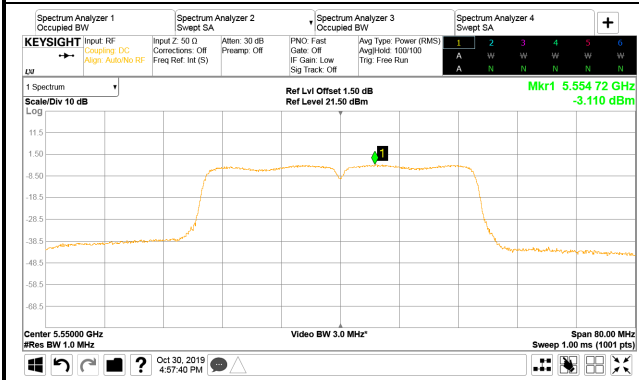
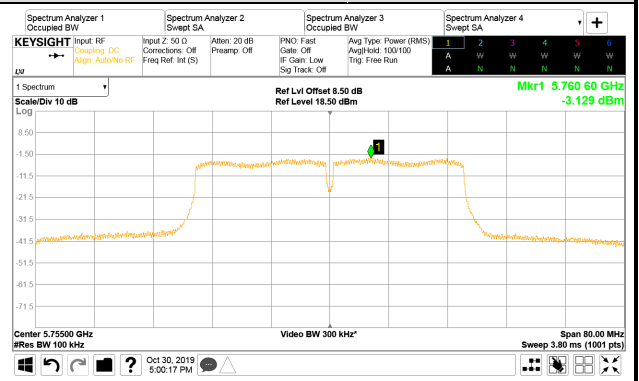


802.11n-HT40

UNII Band III

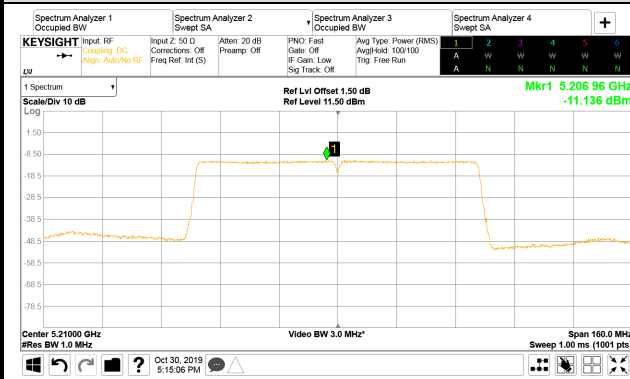


UNII Band IV

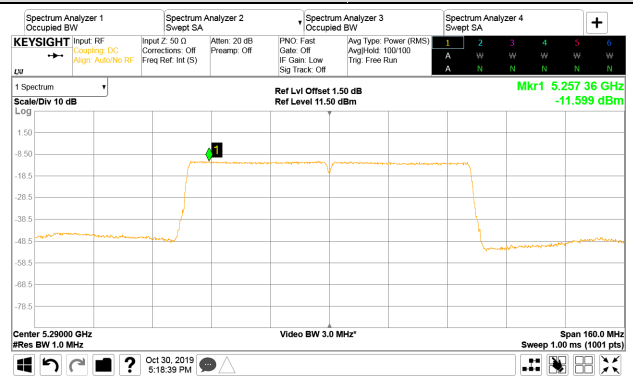


802.11ac-VHT80

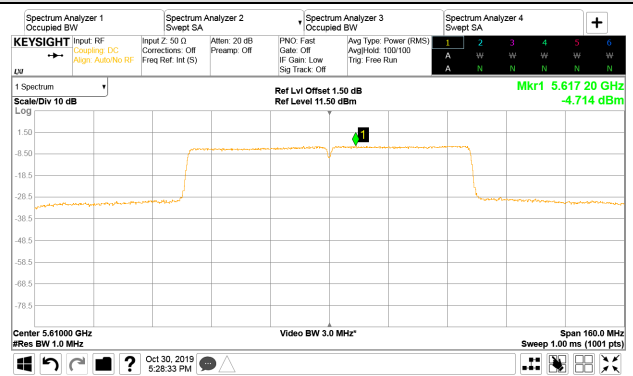
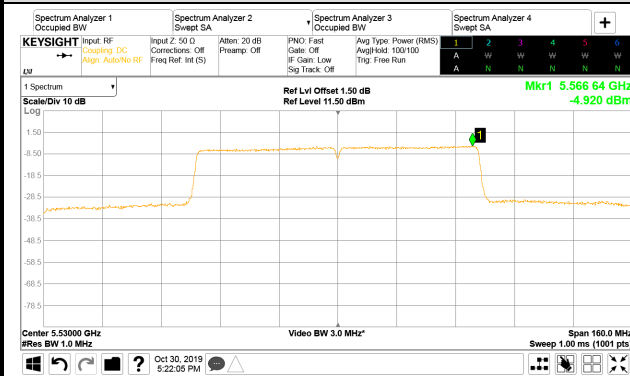
UNII Band I



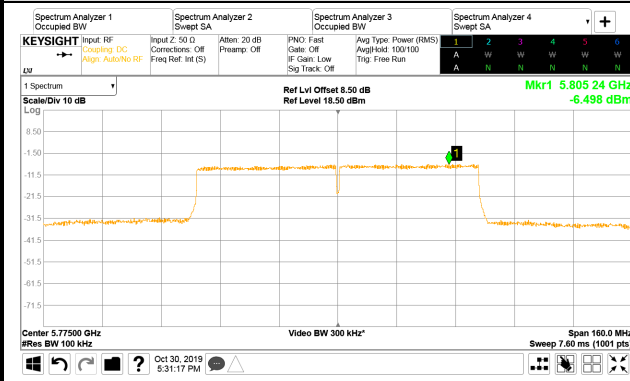
UNII Band II



UNII Band III

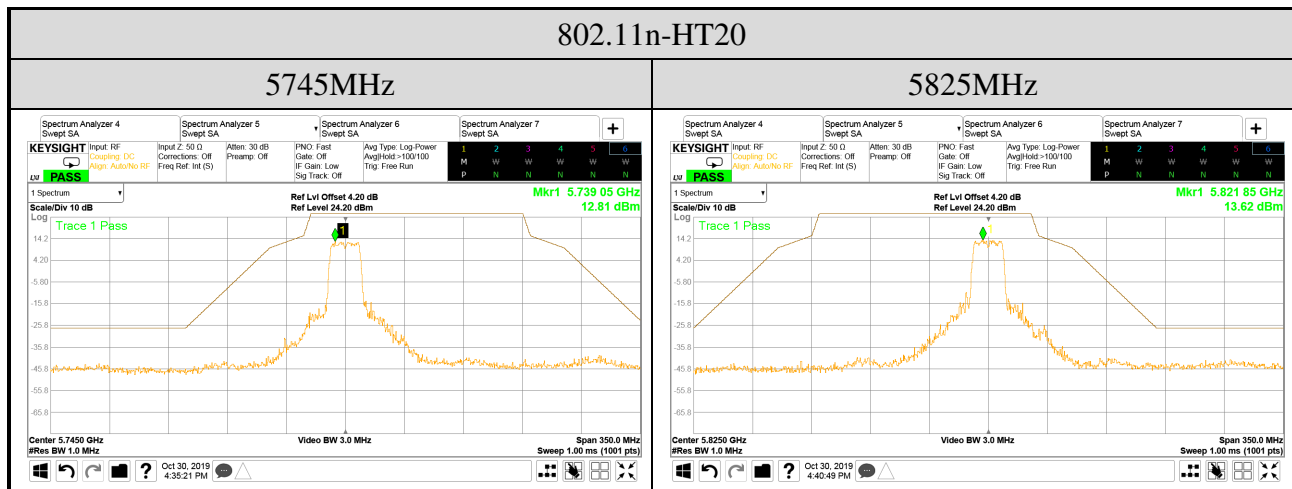
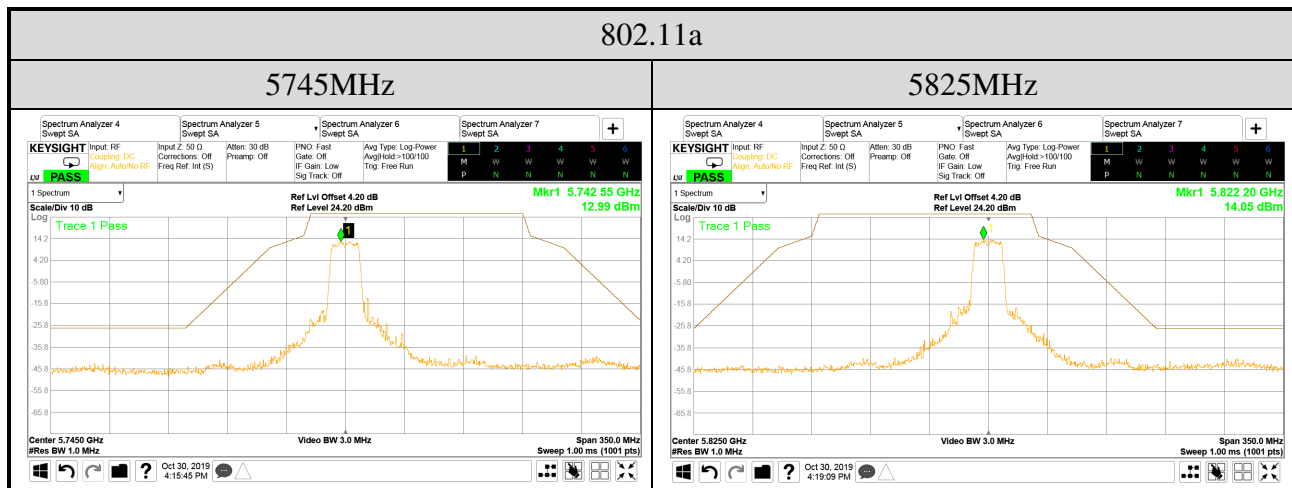


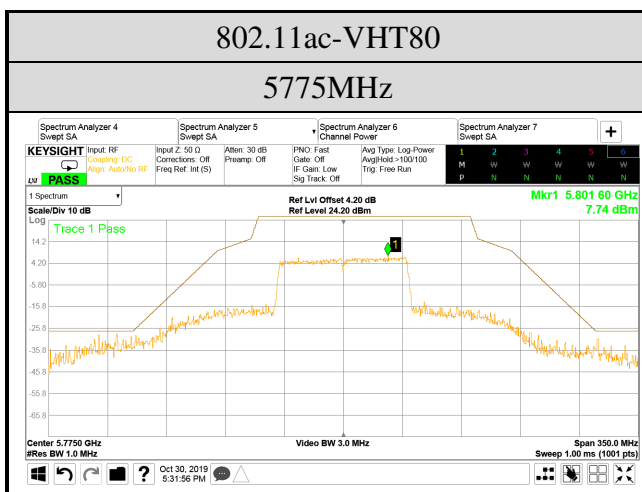
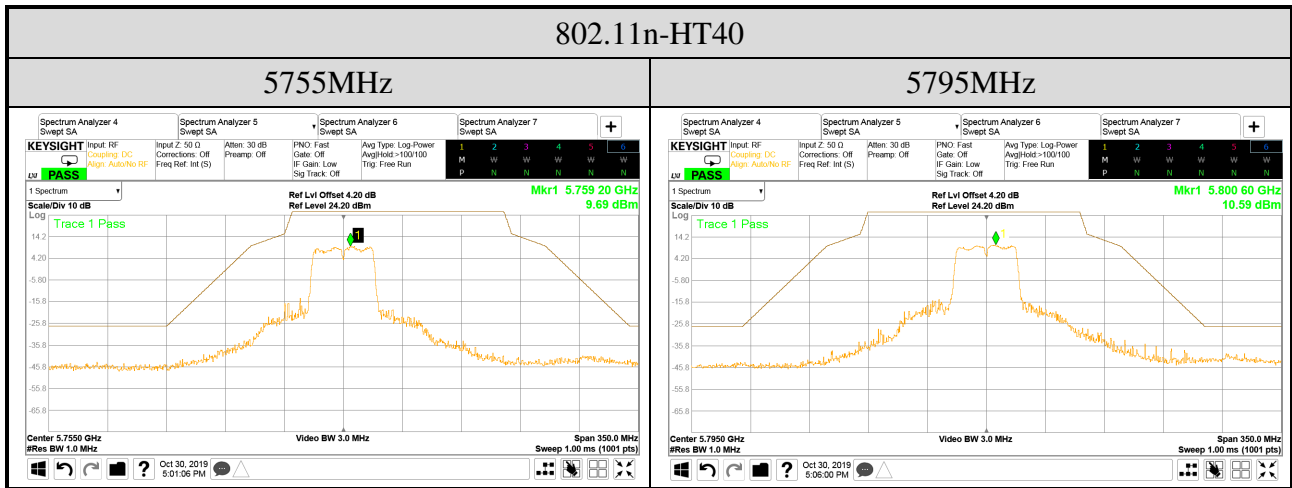
UNII Band IV



4. 頻帶邊緣之 RF 傳導發射之量測

測試日期	2019/10/30	環境溫/濕度	23°C/53%
電纜損失	1.5dB	測試電壓	DC 12V (經 DC 電源供應器供電)
Duty Cycle Factor	0	測試人員	Kuper Hsu
Simultaneous Factor10 log(n) (Note: "n" is antenna number)	0		





5. 電波暴露量之量測

測試日期	2019/10/30	環境溫/濕度	23°C/53%
測試電壓	DC 12V (經 DC 電源供應器供電)	測試人員	Kuper Hsu

距離人體(r):	20	cm	
最大發射功率(P):	14.13	dBm	= 25.882 mW
最大天線增益(G):	6.3	dBd	= 4.266 Numerical
MPE (S) = (P*G) / (4* π *r ²) =	0.0220		mW/cm ²
註：1. 最大發射功率系指5GHz各模式/頻道中最大之發射功率功率。 2. 電磁波曝露量MPE標準值1mW/cm ² ，送測產品實測值為：0.0220mW/cm ²			