

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(測至本地振盪頻率之 10 次諧波)依下列測試模式分別於電波暗室內進行量測，實驗室先將發射機分別以三種不同的擺設方式(站立、平放、側立)進行量試評估，最後選取最大場強值的擺設方式(平放)以低、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。最後，選擇較差模式進行讀值之測量，所得讀值資料請見章節 1.1 ~1.2：

支援 802.11a/n，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	5200MHz(CH40)*	30-1000MHz
				1000-40000MHz
		U-NII Band III	5825MHz(CH165)	1000-40000MHz
802.11n-HT20	發射	UNII Band I	5180MHz(CH36)	1000-40000MHz
		U-NII Band III	5825MHz(CH165)	
802.11n-HT40	發射	UNII Band I	5190MHz(CH38)	1000-40000MHz
		U-NII Band III	5795MHz(CH159)	1000-40000MHz
---	接收	UNII Band I	5745MHz(CH149)	30-1000MHz
		U-NII Band III		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
802.11n-HT20	發射	UNII Band I	5180MHz (CH36)	5100-5200MHz
802.11n-HT40	發射	UNII Band I	5190MHz (CH38)	5100-5210MHz

測試日期	2022/01/04	環境溫/濕度	19°C/61%
測試電壓	DC 3.7V (經鋰電池供電)	測試人員	Sam Chang

1.1. 30-1000MHz 頻率範圍，其他不必要發射量測

Mode	802.11a	UNII Band	I
		Frequency	TX 5200MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.82	19.36	0.58	32.66	42.04	29.32	40.00	10.68	Peak
68.80	18.77	0.75	32.61	42.49	29.40	40.00	10.60	Peak
110.51	16.44	0.93	32.55	45.43	30.25	43.50	13.25	Peak
158.04	20.03	1.08	32.49	47.15	35.77	43.50	7.73	Peak
527.61	24.82	2.28	32.44	44.09	38.75	46.00	7.25	Peak
576.11	25.92	2.39	32.47	41.43	37.27	46.00	8.73	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.85	19.22	0.57	32.66	45.82	32.95	40.00	7.05	Peak
45.52	20.32	0.65	32.65	45.21	33.53	40.00	6.47	Peak
67.83	18.91	0.74	32.61	46.59	33.63	40.00	6.37	Peak
265.71	18.82	1.43	32.47	44.00	31.78	46.00	14.22	Peak
527.61	24.82	2.28	32.44	39.93	34.59	46.00	11.41	Peak
576.11	25.92	2.39	32.47	36.97	32.81	46.00	13.19	Peak

Mode	---	Frequency	RX 5745MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.85	19.22	0.57	32.66	43.40	30.53	40.00	9.47	Peak
158.04	20.03	1.08	32.49	47.15	35.77	43.50	7.73	Peak
384.05	22.07	1.82	32.45	43.41	34.85	46.00	11.15	Peak
480.08	23.82	2.15	32.43	42.05	35.59	46.00	10.41	Peak
527.61	24.82	2.28	32.44	44.17	38.83	46.00	7.17	Peak
576.11	25.92	2.39	32.47	41.68	37.52	46.00	8.48	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.85	19.22	0.57	32.66	46.32	33.45	40.00	6.55	Peak
46.49	20.33	0.66	32.65	44.72	33.06	40.00	6.94	Peak
67.83	18.91	0.74	32.61	45.11	32.15	40.00	7.85	Peak
265.71	18.82	1.43	32.47	44.57	32.35	46.00	13.65	Peak
527.61	24.82	2.28	32.44	40.48	35.14	46.00	10.86	Peak
576.11	25.92	2.39	32.47	37.61	33.45	46.00	12.55	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 5200MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10400.00	38.50	14.06	33.38	28.74	47.92	54.00	6.08	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10400.00	38.50	14.06	33.38	26.90	46.08	54.00	7.92	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)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11650.00	39.07	14.68	33.59	27.88	48.04	54.00	5.96	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11650.00	39.07	14.68	33.59	29.37	49.53	54.00	4.47	Peak

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)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10360.00	38.43	14.03	33.32	28.89	48.03	54.00	5.97	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10360.00	38.43	14.03	33.32	27.99	47.13	54.00	6.87	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)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11650.00	39.07	14.68	33.59	27.13	47.29	54.00	6.71	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11650.00	39.07	14.68	33.59	26.93	47.09	54.00	6.91	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)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10380.00	38.50	14.05	33.35	28.06	47.26	54.00	6.74	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
10380.00	38.50	14.05	33.35	29.34	48.54	54.00	5.46	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)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11590.00	39.10	14.67	33.60	27.18	47.35	54.00	6.65	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11590.00	39.10	14.67	33.60	28.16	48.33	54.00	5.67	Peak

Mode	---	Frequency	RX 5745MHz
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Antenna at Horizontal Polarization

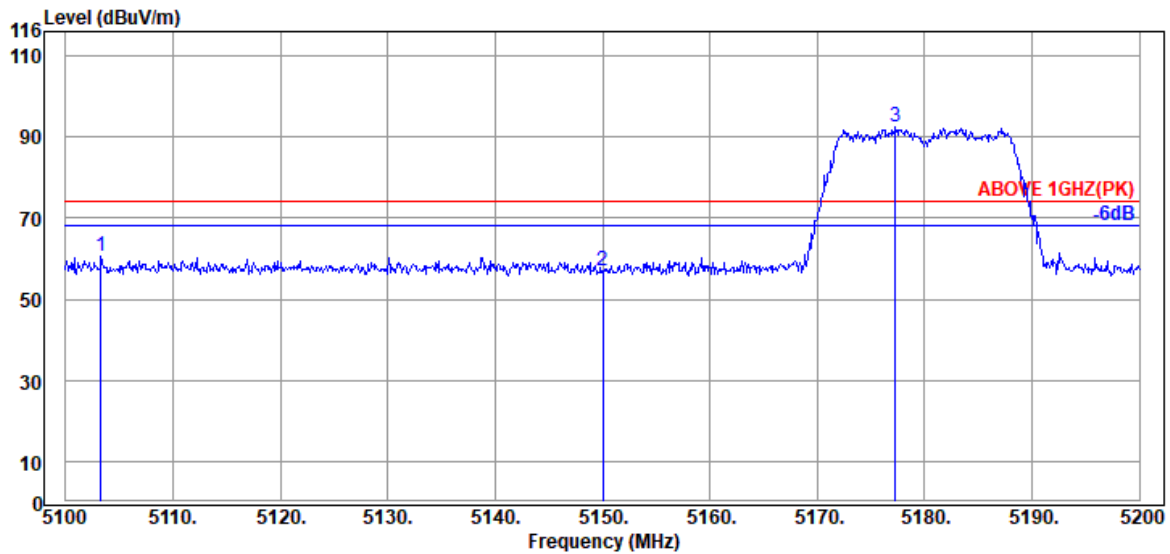
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11490.00	39.00	14.64	33.63	27.40	47.41	54.00	6.59	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
11490.00	39.00	14.64	33.63	26.94	46.95	54.00	7.05	Peak

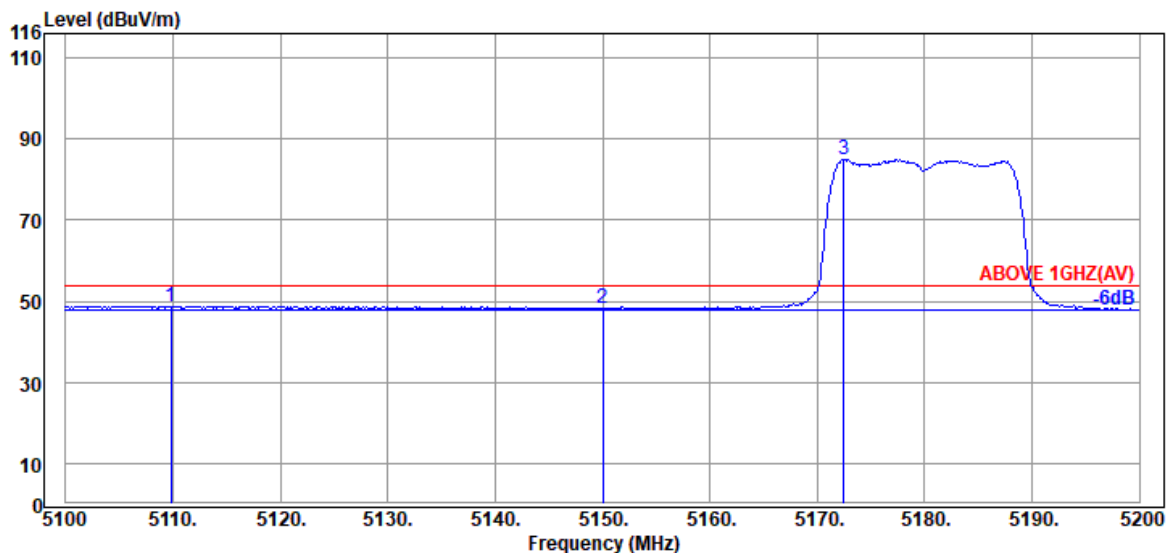
1.3. 禁用頻帶量測結果 (其他不必要發射)

Mode	802.11a	Frequency	TX 5180MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5103.30	33.00	9.12	31.63	49.96	60.45	74.00	13.55	Peak
5150.00	33.10	9.16	31.63	46.39	57.02	74.00	16.98	Peak
@ 5177.30	33.17	9.19	31.63	81.72	92.45	---	---	Peak

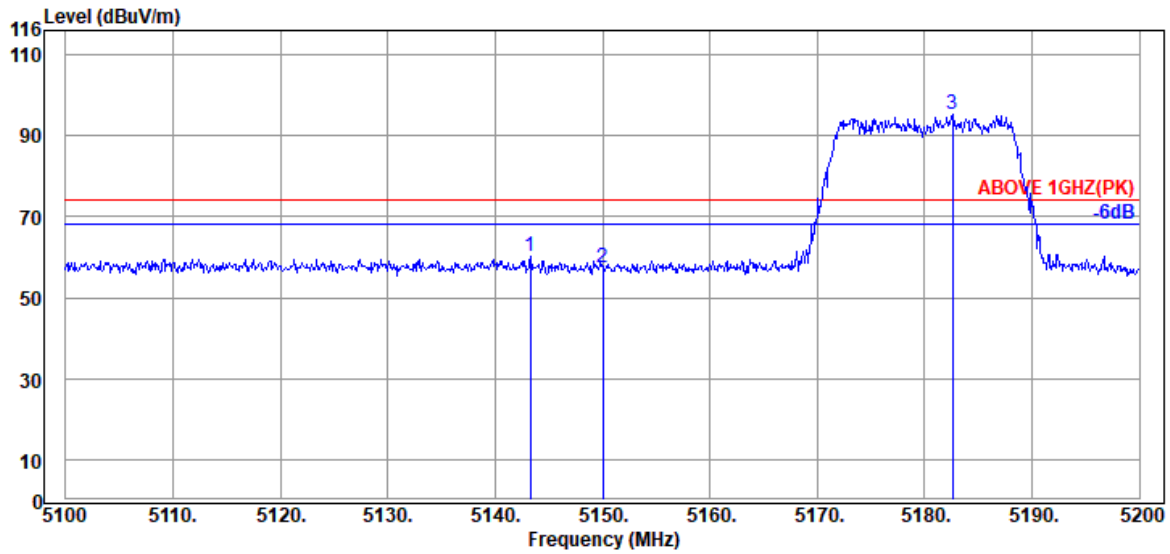


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5109.80	33.00	9.13	31.63	38.30	48.80	54.00	5.20	Average
5150.00	33.10	9.16	31.63	37.63	48.26	54.00	5.74	Average
@ 5172.50	33.17	9.18	31.63	74.21	84.93	---	---	Average

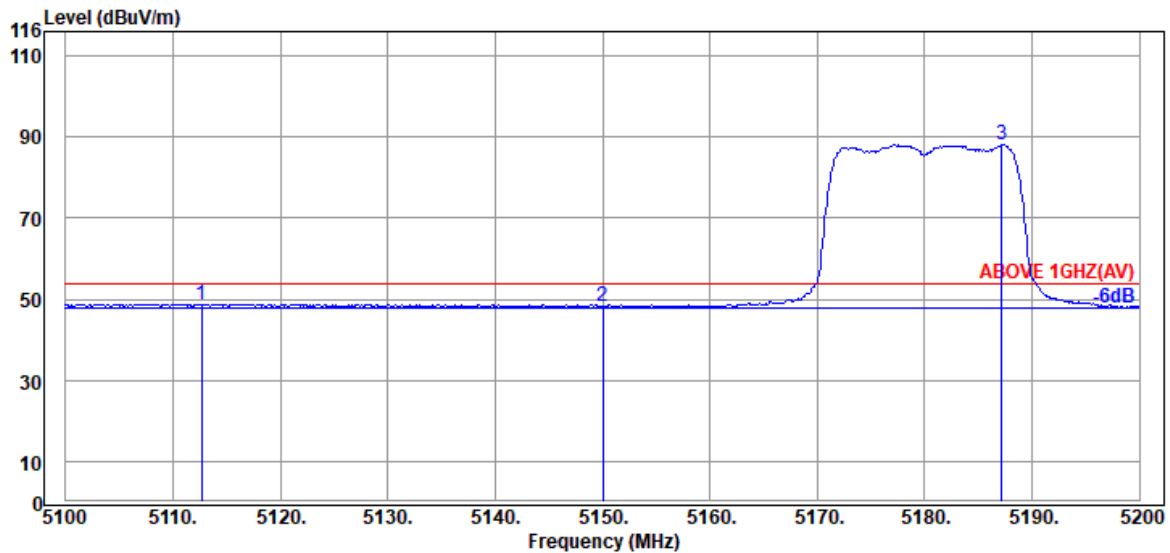
備註：“@”為主波，在此章節是不予以判定。

Mode	802.11a	Frequency	TX 5180MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5143.30	33.10	9.16	31.63	49.38	60.01	74.00	13.99	Peak
5150.00	33.10	9.16	31.63	46.87	57.50	74.00	16.50	Peak
@ 5182.60	33.17	9.19	31.63	84.61	95.34	---	---	Peak

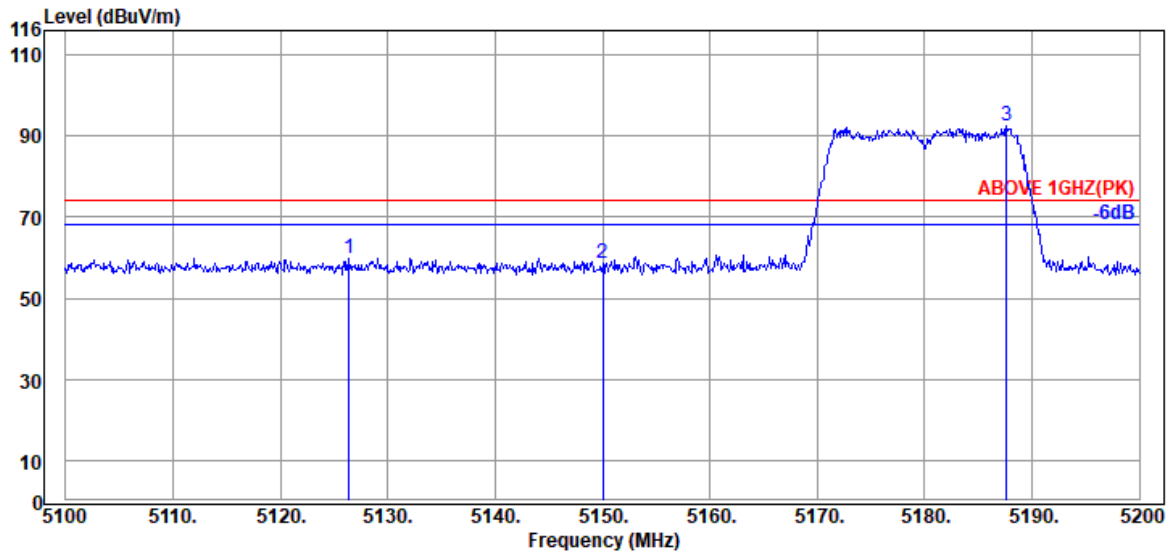


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5112.70	33.03	9.13	31.63	38.23	48.76	54.00	5.24	Average
5150.00	33.10	9.16	31.63	37.64	48.27	54.00	5.73	Average
@ 5187.20	33.20	9.19	31.63	77.39	88.15	---	---	Average

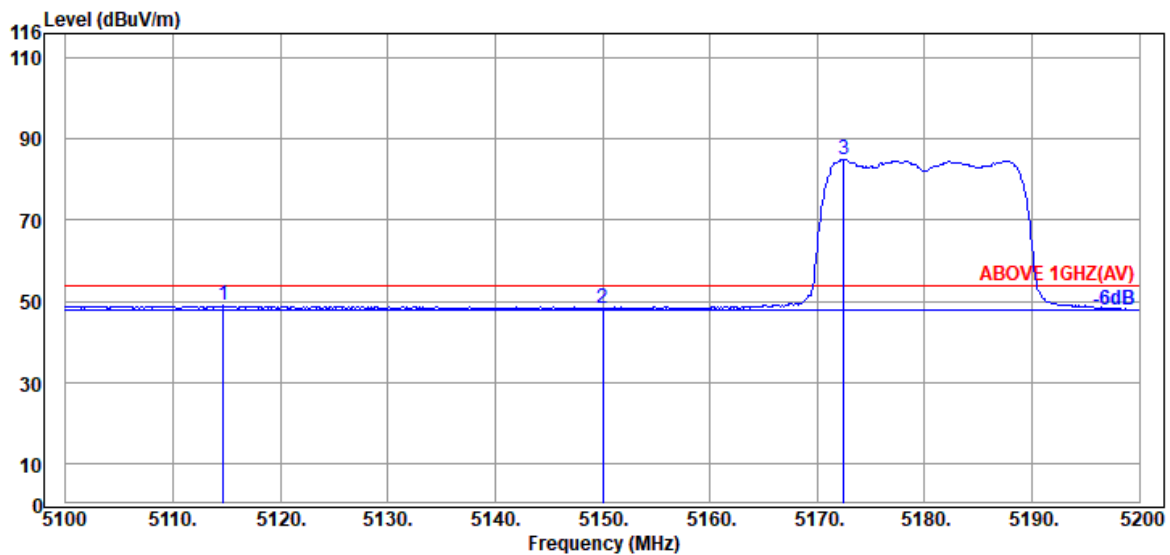
備註：“@”為主波，在此章節是不予以判定。

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)	Preamp Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5126.40	33.03	9.15	31.63	49.44	59.99	74.00	14.01	Peak
5150.00	33.10	9.16	31.63	47.85	58.48	74.00	15.52	Peak
@ 5187.60	33.20	9.19	31.63	81.69	92.45	---	---	Peak

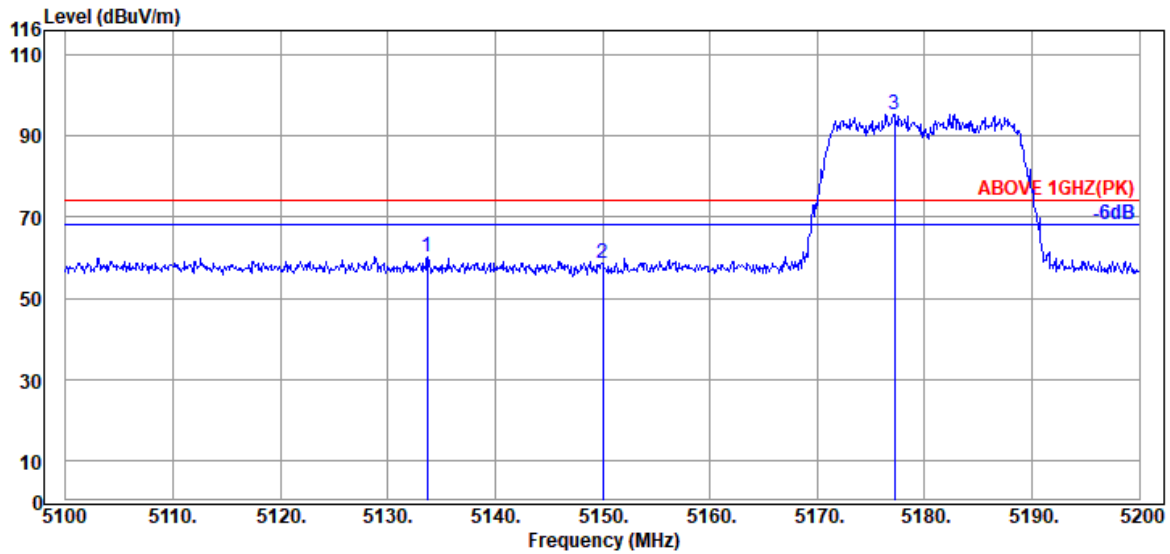


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5114.70	33.03	9.13	31.63	38.31	48.84	54.00	5.16	Average
5150.00	33.10	9.16	31.63	37.72	48.35	54.00	5.65	Average
@ 5172.50	33.17	9.18	31.63	74.16	84.88	---	---	Average

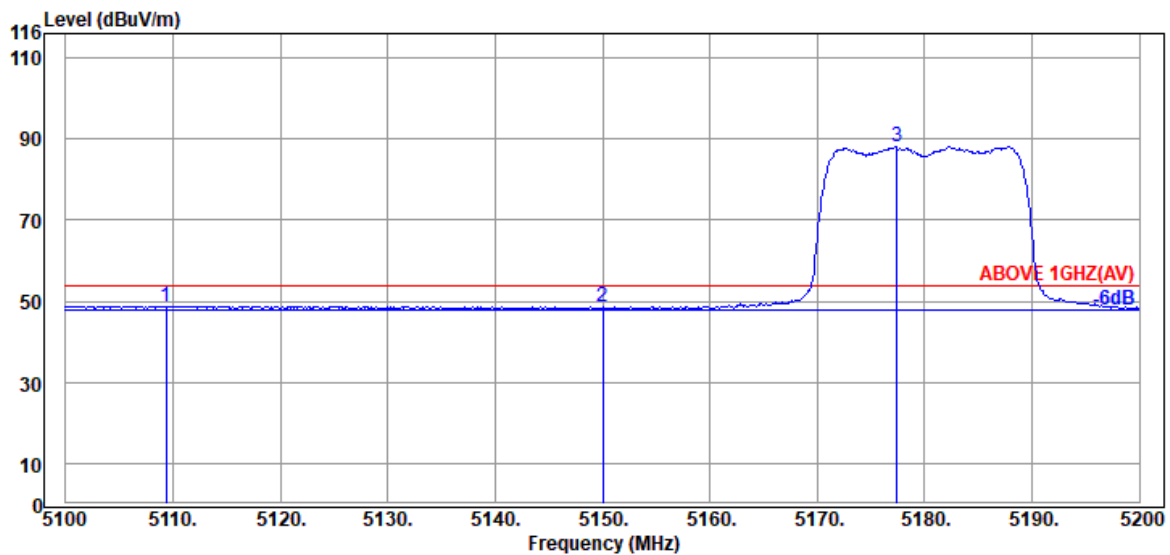
備註：“@”為主波，在此章節是不予以判定。

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5133.70	33.07	9.15	31.63	49.48	60.07	74.00	13.93	Peak
5150.00	33.10	9.16	31.63	48.14	58.77	74.00	15.23	Peak
@ 5177.20	33.17	9.19	31.63	84.57	95.30	---	---	Peak

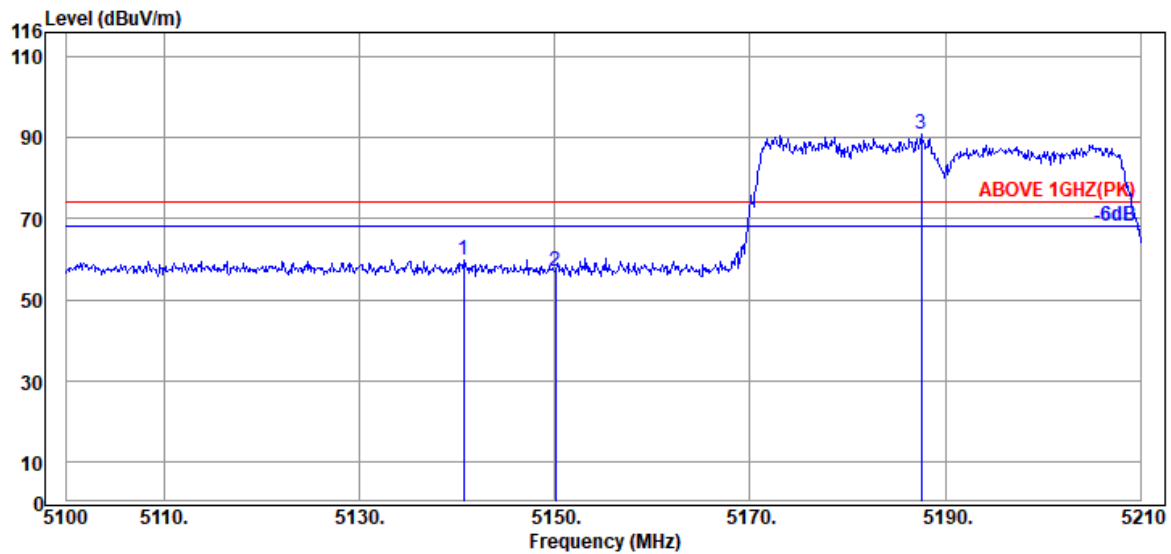


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5109.40	33.00	9.13	31.63	38.31	48.81	54.00	5.19	Average
5150.00	33.10	9.16	31.63	37.93	48.56	54.00	5.44	Average
@ 5177.40	33.17	9.19	31.63	77.40	88.13	---	---	Average

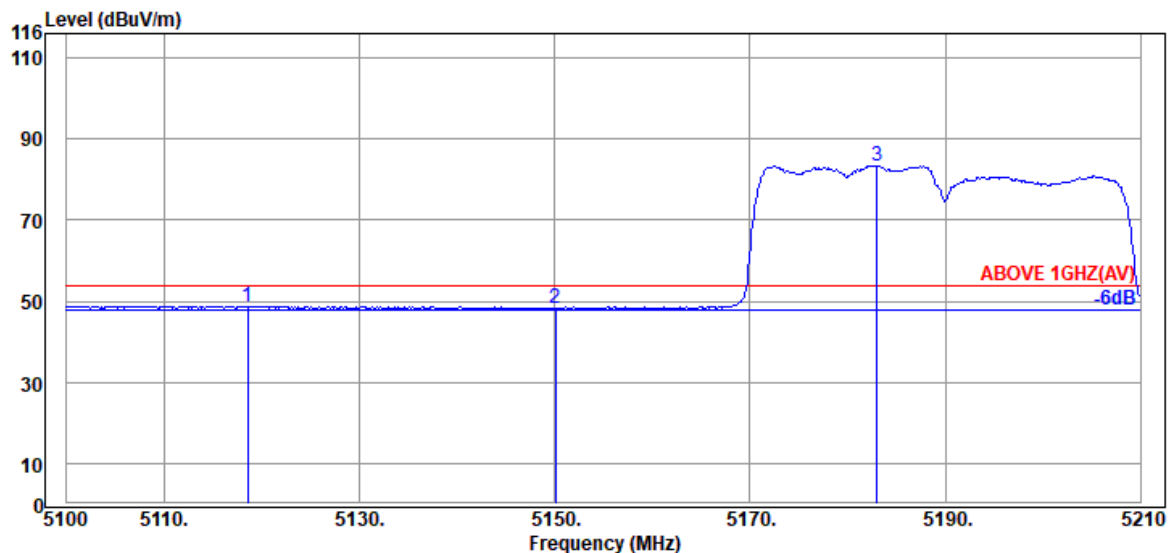
備註：“@”為主波，在此章節是不予以判定。

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5140.70	33.07	9.16	31.63	49.14	59.74	74.00	14.26	Peak
5150.05	33.10	9.16	31.63	46.49	57.12	74.00	16.88	Peak
@ 5187.56	33.20	9.19	31.63	80.12	90.88	---	---	Peak

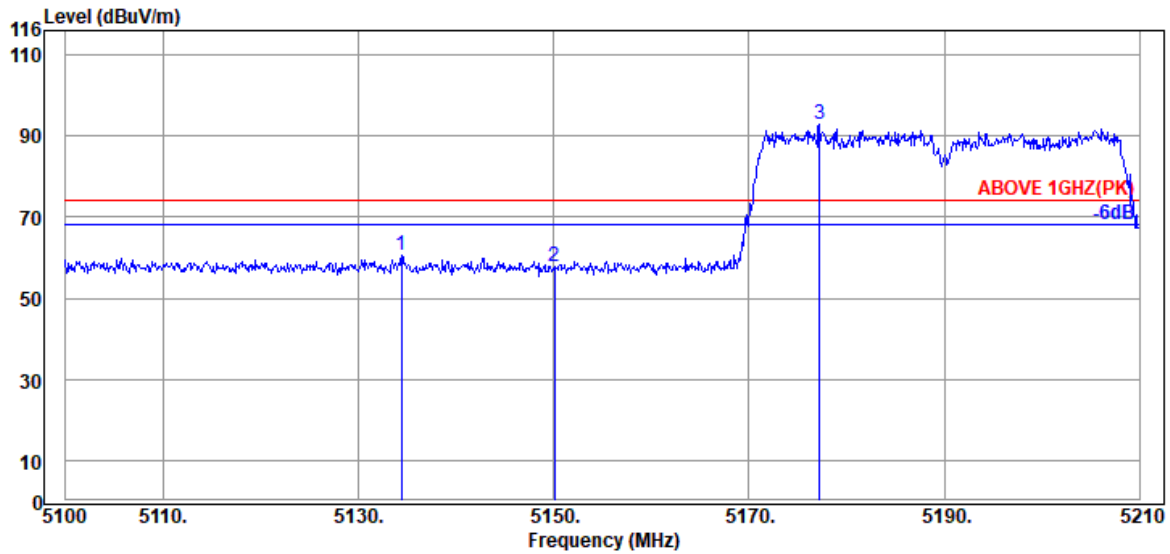


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5118.59	33.03	9.13	31.63	38.24	48.77	54.00	5.23	Average
5150.05	33.10	9.16	31.63	37.53	48.16	54.00	5.84	Average
@ 5183.05	33.17	9.19	31.63	72.62	83.35	---	---	Average

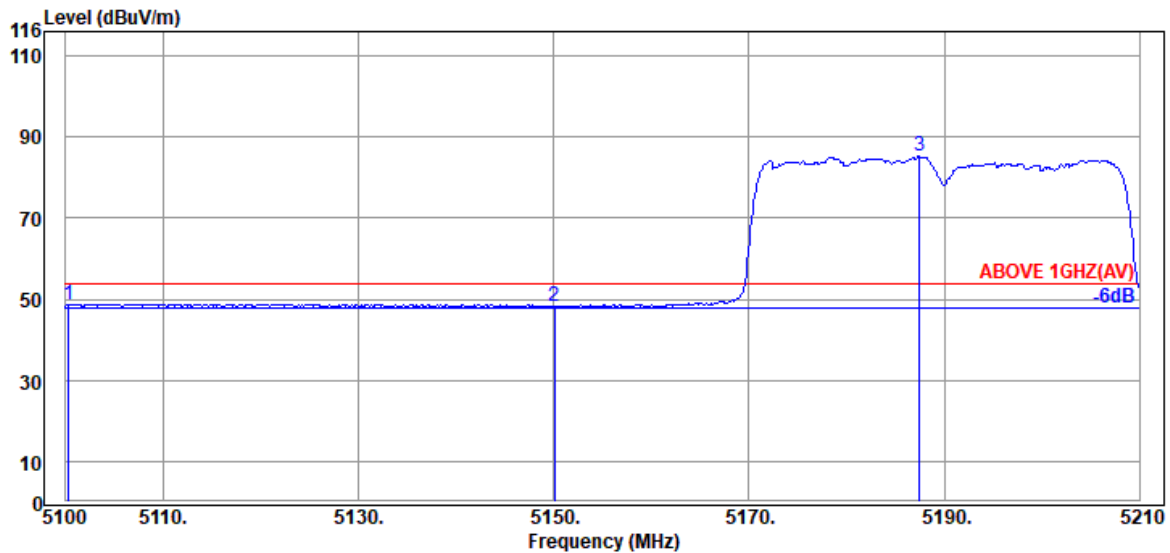
備註：“@”為主波，在此章節是不予以判定。

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)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5134.43	33.07	9.15	31.63	49.81	60.40	74.00	13.60	Peak
5150.05	33.10	9.16	31.63	46.99	57.62	74.00	16.38	Peak
@ 5177.22	33.17	9.19	31.63	82.24	92.97	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
5100.33	33.00	9.12	31.63	38.28	48.77	54.00	5.23	Average
5150.05	33.10	9.16	31.63	37.65	48.28	54.00	5.72	Average
@ 5187.45	33.20	9.19	31.63	74.36	85.12	---	---	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	2022/01/08	環境溫/濕度	17°C/65%
電纜損失	1.00dB	測試人員	Sam Chang
測試電壓	DC 3.7V (經鋰電池供電)	Duty Cycle	802.1a: 0.994 802.11n-HT20: 0.994 802.11n-HT40: 0.987

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	19.23	16.576	9.46	N/A	9.46	30	N/A
	5200	29.37	16.735	9.98		9.98		
	5240	19.93	16.609	9.34		9.34		
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 III	5745	16.38	16.477	4.74	N/A	4.74	30	N/A
	5785	16.43	16.469	4.92		4.92		
	5825	16.48	16.482	5.03		5.03		

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	20.19	17.642	9.65	N/A	9.65	30	N/A
	5200	23.22	17.724	9.63		9.63		
	5240	20.06	17.647	9.43		9.43		
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 III	5745	17.62	17.615	4.86	N/A	4.86	30	N/A
	5785	17.60	17.602	5.04		5.04		
	5825	17.60	17.618	5.16		5.16		

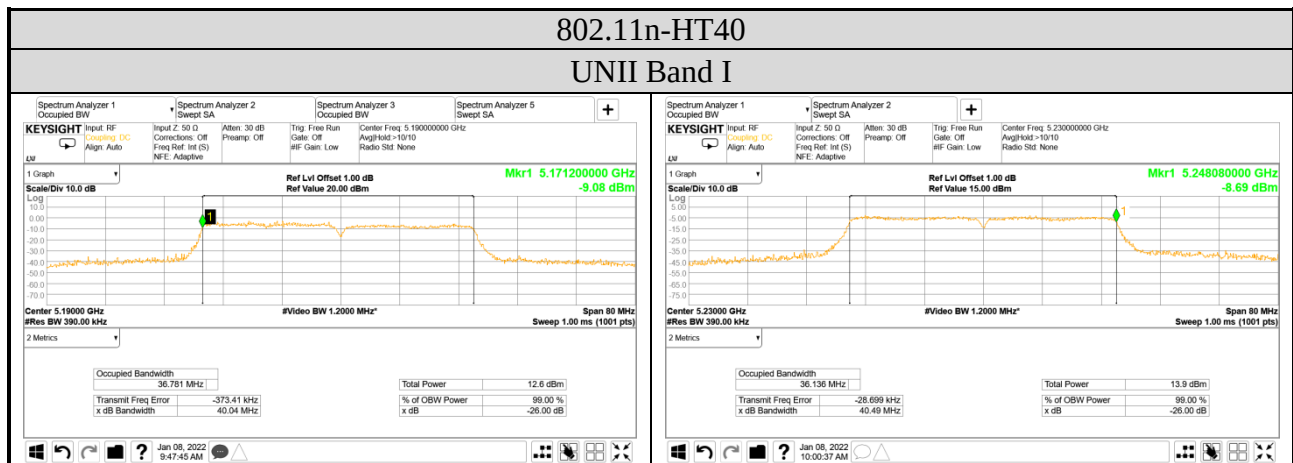
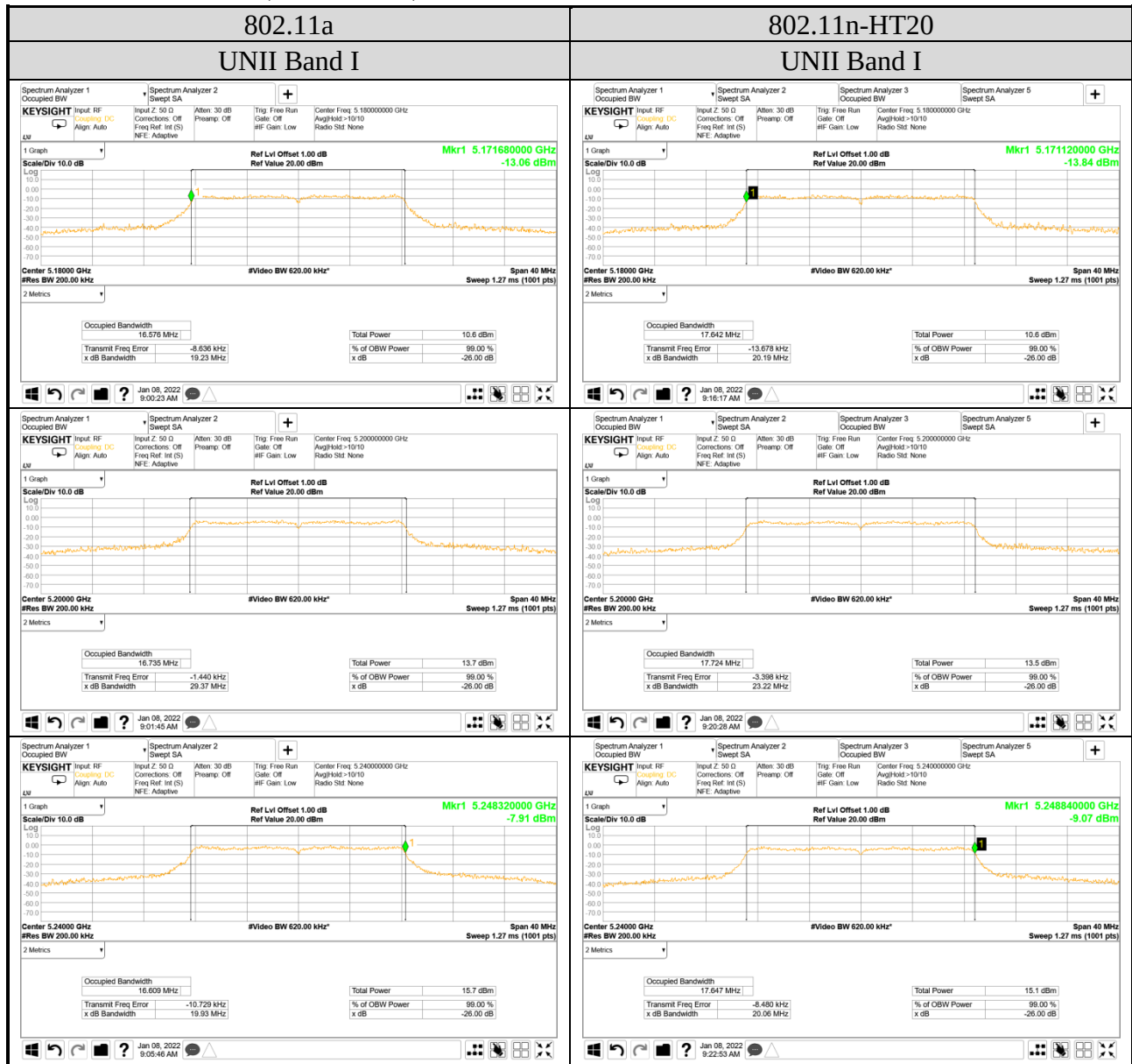
註：當 Duty cycle<98%，最大輸出功率必需要加上 duty cycle factor $10\log(1/x)$ 。(x=duty cycle, B=26dB 發射頻寬)

模式 802.11n-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	40.04	36.781	8.58	N/A	8.58	30	N/A
	5230	40.49	36.136	8.44		8.44		
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 III	5755	36.03	36.114	3.89	N/A	3.89	30	N/A
	5795	36.01	36.060	4.02		4.02		

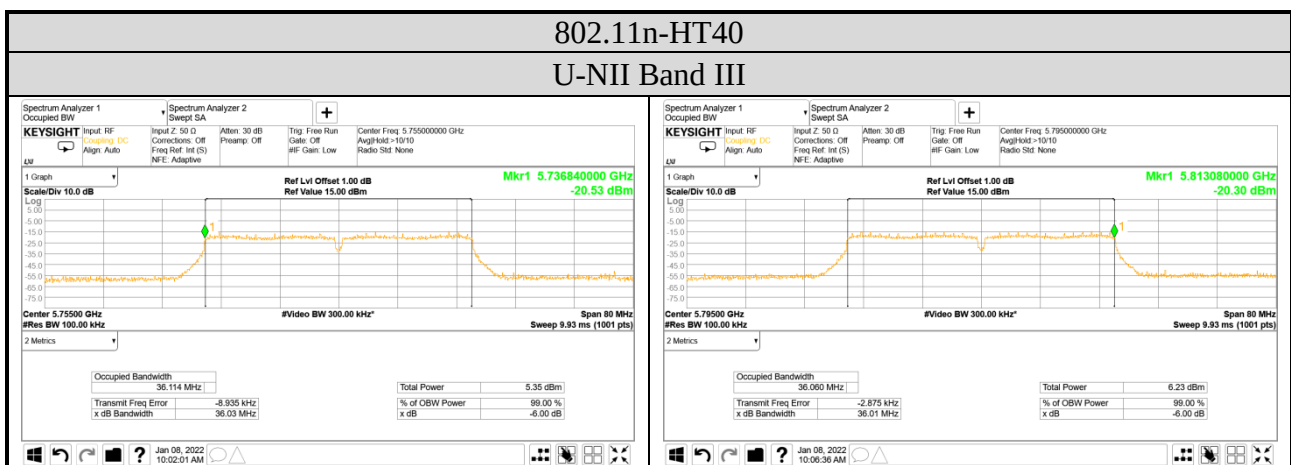
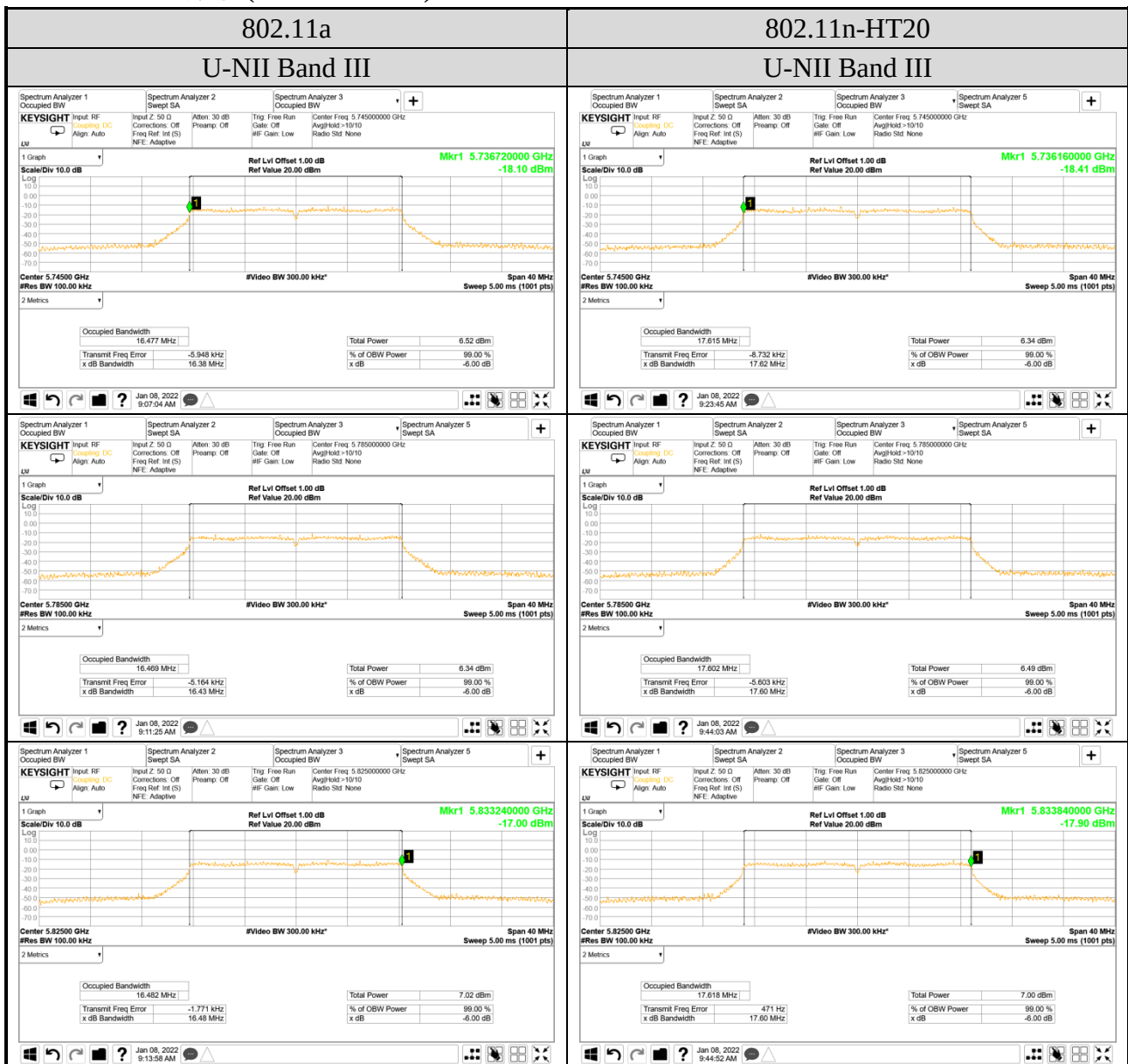
註:當 Duty cycle<98%, 最大輸出功率必需要加上 duty cycle factor $10\log(1/x)$ 。(x=duty cycle, B=26dB 發射頻寬)

2.2. 26dB/6dB 頻寬之量測圖

● 26dB 頻寬 (UNII Band I)



● 6dB 頻寬 (U-NII Band III)



3. 峰值功率頻譜密度之量測

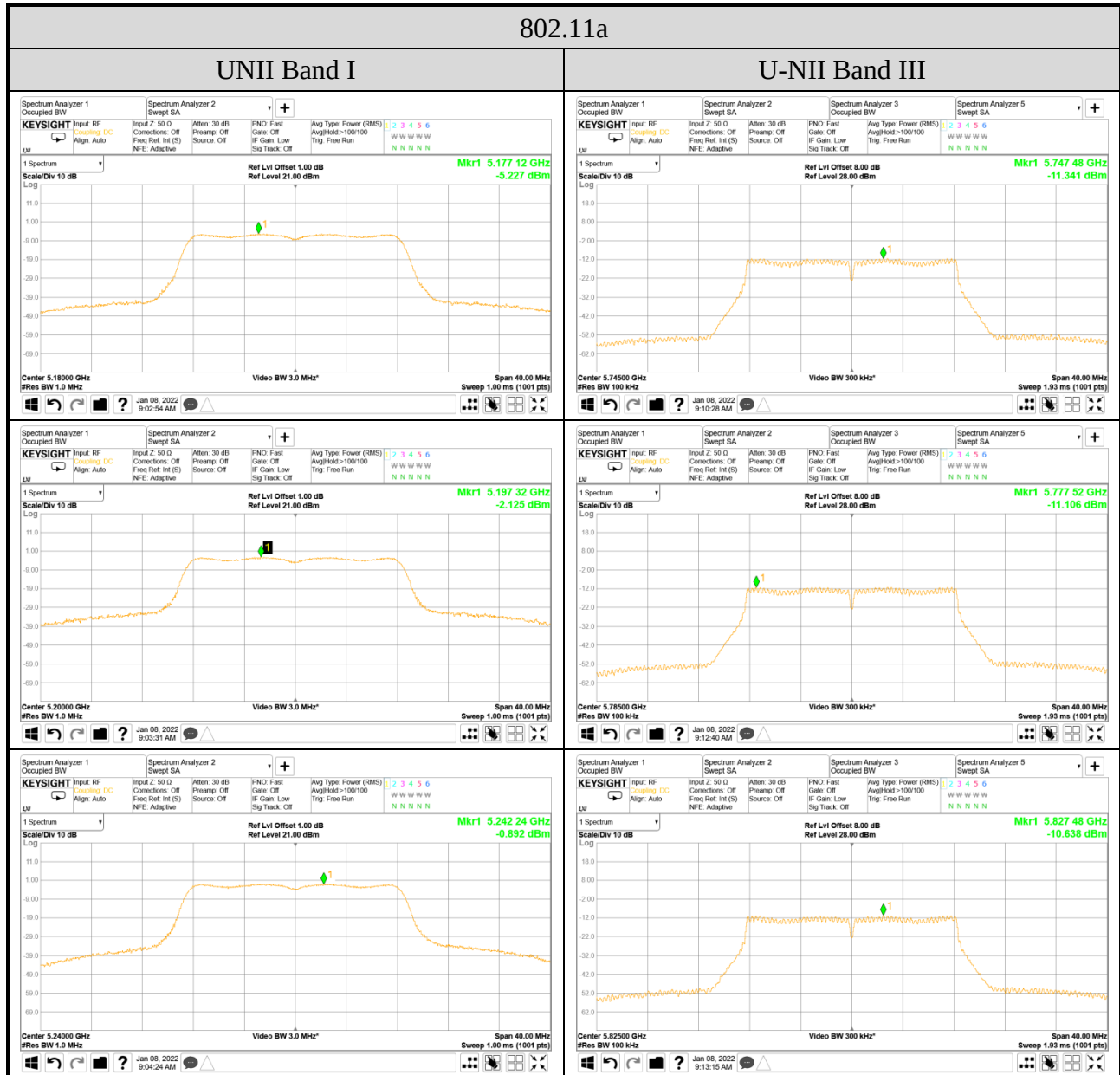
測試日期	2022/01/08	環境溫/濕度	17°C/65%
電纜損失	1.00dB	測試人員	Sam Chang
測試電壓	DC 3.7V (經鋰電池供電)	Duty Cycle	802.1a: 0.994 802.11n-HT20: 0.994 802.11n-HT40: 0.987
Simultaneous Factor10 log(n) (Note: “n” is antenna number)			0dB

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	-5.227	--	11 dBm/MHz
		5200	-2.125	--	
		5240	-0.892	--	
	III ^{Note}	5745	--	-11.341	30dBm/500 kHz
		5785	--	-11.106	
		5825	--	-10.638	
802.11n-HT20	I	5180	-5.334	--	11 dBm/MHz
		5200	-3.243	--	
		5240	-4.019	--	
	III ^{Note}	5745	--	-11.172	30dBm/500 kHz
		5785	--	-11.199	
		5825	--	-10.834	
802.11n-HT40	I	5190	-8.835	--	11 dBm/MHz
		5230	-5.466	--	
	III ^{Note}	5755	--	-15.493	30dBm/500 kHz
		5795	--	-15.061	

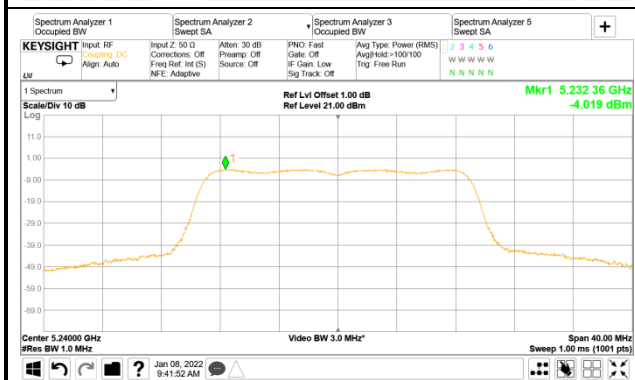
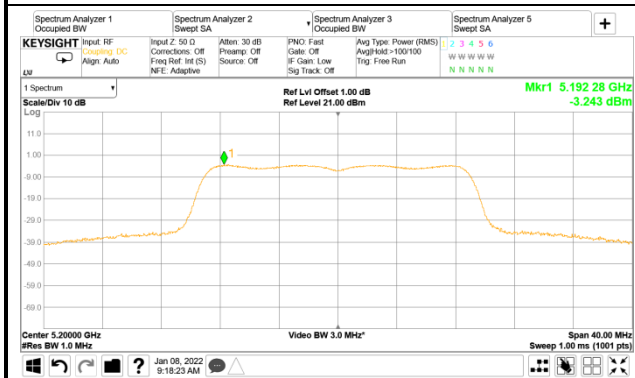
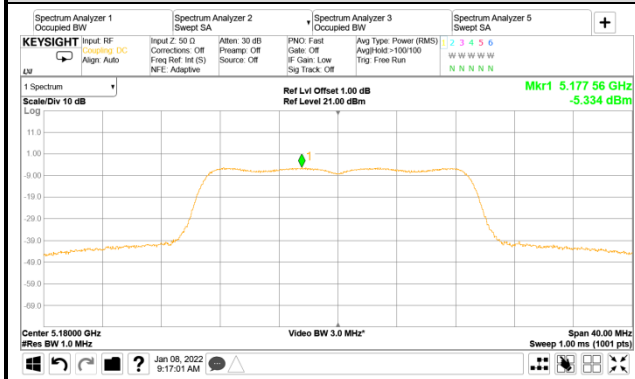
Note: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

3.2. 峰值功率頻譜密度之量測圖

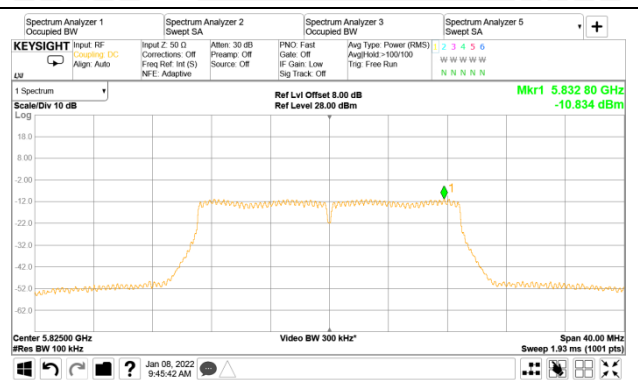
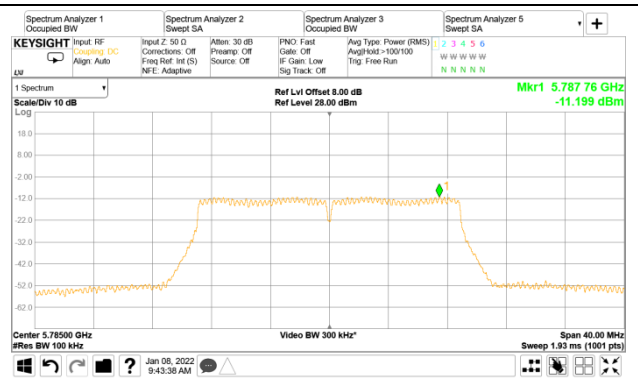
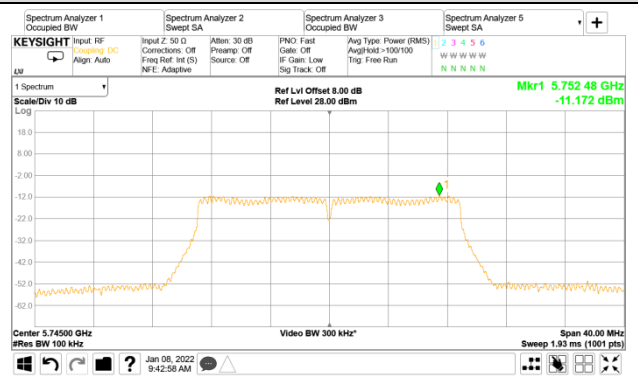


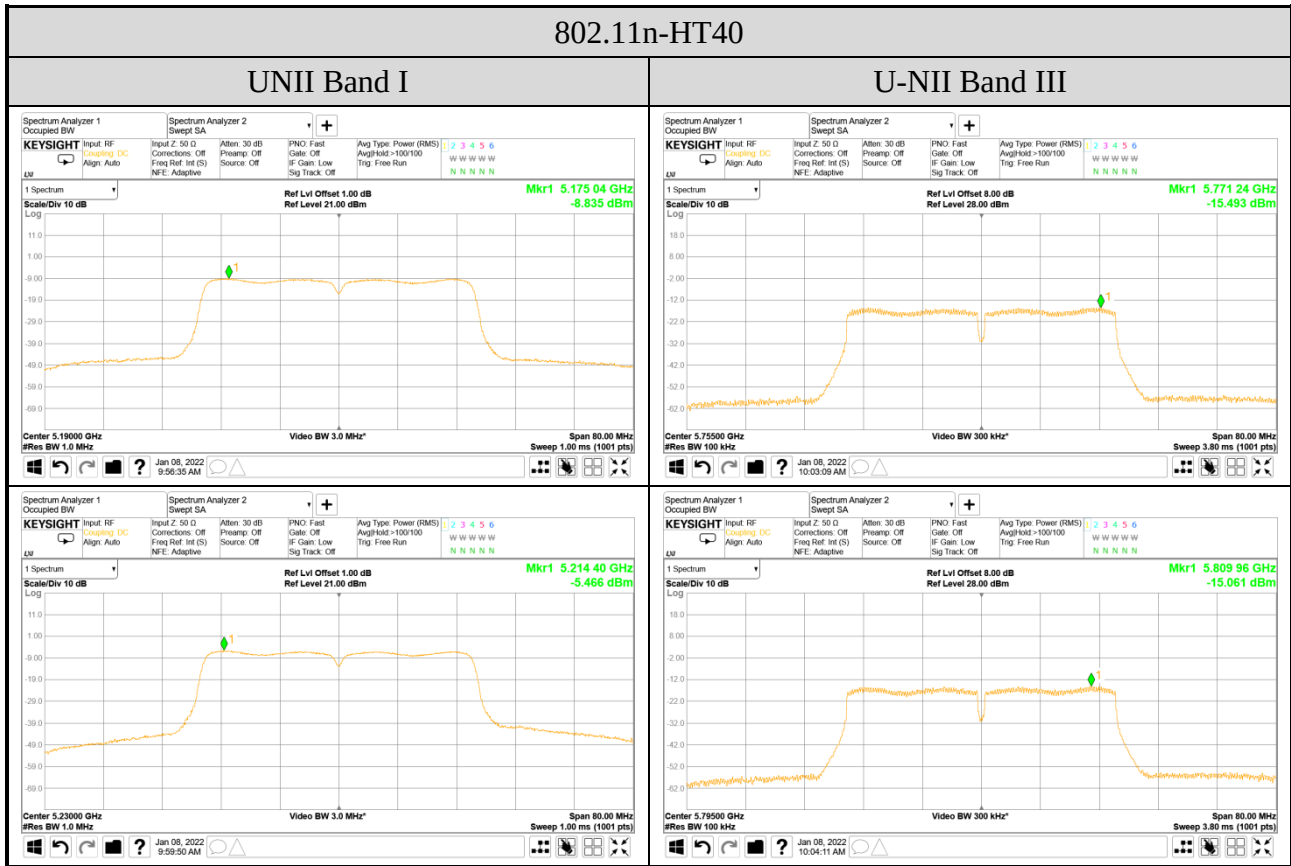
802.11n-HT20

UNII Band I



U-NII Band III





4. 頻帶邊緣之 RF 發射之量測

測試日期	2022/01/04	環境溫/濕度	19°C/61%
電纜損失	---	測試人員	Sam Chang
測試電壓	DC 3.7V (經鋰電池供電)		

