

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掃頻圖檢附於附錄中。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：

模式	動作狀態	基本頻率	量測頻率範圍
1	發射	2447MHz*	30-1000MHz
2			1000-3000MHz
3			3000-5000MHz
4			5000-8000MHz
5			8000-18000MHz
6			18000-25000MHz
7		2457MHz	1000-3000MHz
8			3000-5000MHz
9			5000-8000MHz
10			8000-18000MHz
11			18000-25000MHz
12	接收	2447MHz	30-1000MHz
13			1000-3000MHz
14			3000-5000MHz
15			5000-8000MHz
16			8000-18000MHz
17			18000-25000MHz

註：1.以上所有模式之掃頻圖是檢附於附錄中。

2.*: 經評估後，以最差頻率進行 30-1000MHz 量測。

對受測物裝置之主波發射強度依下列測試模式分別於電波暗室內進行量測，所得量測資料請見章節 1.3：

模式	動作狀態	基本頻率
1	發射	2447MHz
2		2457MHz

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 1.4。

模式	動作狀態	基本頻率	量測頻率範圍
1	發射	2447MHz	2310-2450MHz
2		2457MHz	2450-2530MHz

測試日期	2018/09/26	環境溫/濕度	23°C/50%
測試電壓	DC 3.0V(經電池供電)		

1.1. 30-1000MHz 頻率範圍，其他不必要發射量測

Mode	ANT+	Frequency	TX 2447MHz
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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
42.6100	18.17	1.44	2.33	21.94	40.00	18.06	Peak
107.6000	18.02	2.36	6.23	26.61	43.50	16.89	Peak
427.7000	22.39	5.82	2.81	31.02	46.00	14.98	Peak
712.8800	25.01	7.15	2.50	34.66	46.00	11.34	Peak
908.8200	26.91	8.24	2.32	37.47	46.00	8.53	Peak
970.9000	27.56	8.65	2.84	39.05	54.00	14.95	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
36.7900	21.33	1.34	2.18	24.85	40.00	15.15	Peak
115.3600	18.53	2.45	3.72	24.70	43.50	18.80	Peak
251.1600	19.17	3.82	3.85	26.84	46.00	19.16	Peak
322.9400	20.15	4.63	4.83	29.61	46.00	16.39	Peak
709.9700	24.98	7.13	3.14	35.25	46.00	10.75	Peak
977.6900	27.63	8.70	1.93	38.26	54.00	15.74	Peak

Mode	ANT+	Frequency	RX 2447MHz
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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
31.9400	23.76	1.25	2.29	27.30	40.00	12.70	Peak
101.7800	17.60	2.29	4.77	24.66	43.50	18.84	Peak
282.2000	19.38	4.14	2.38	25.90	46.00	20.10	Peak
499.4800	23.14	6.42	2.30	31.86	46.00	14.14	Peak
749.7400	25.42	7.35	2.84	35.61	46.00	10.39	Peak
980.6000	27.63	8.70	1.50	37.83	54.00	16.17	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
58.1300	12.92	1.70	4.55	19.17	40.00	20.83	Peak
116.3300	18.59	2.46	4.93	25.98	43.50	17.52	Peak
327.7900	20.28	4.69	4.24	29.21	46.00	16.79	Peak
496.5700	23.11	6.39	2.87	32.37	46.00	13.63	Peak
816.6700	26.07	7.70	2.58	36.35	46.00	9.65	Peak
977.6900	27.63	8.70	2.65	38.98	54.00	15.02	Peak

1.2. 1000MHz 以上頻率範圍，其他不必要發射量測

Mode	ANT+	Frequency	TX 2447MHz
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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
4894.0000	34.26	9.57	-1.39	42.44	54.00	11.56	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
4894.0000	34.26	9.57	-2.04	41.79	54.00	12.21	Peak

Mode	ANT+	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

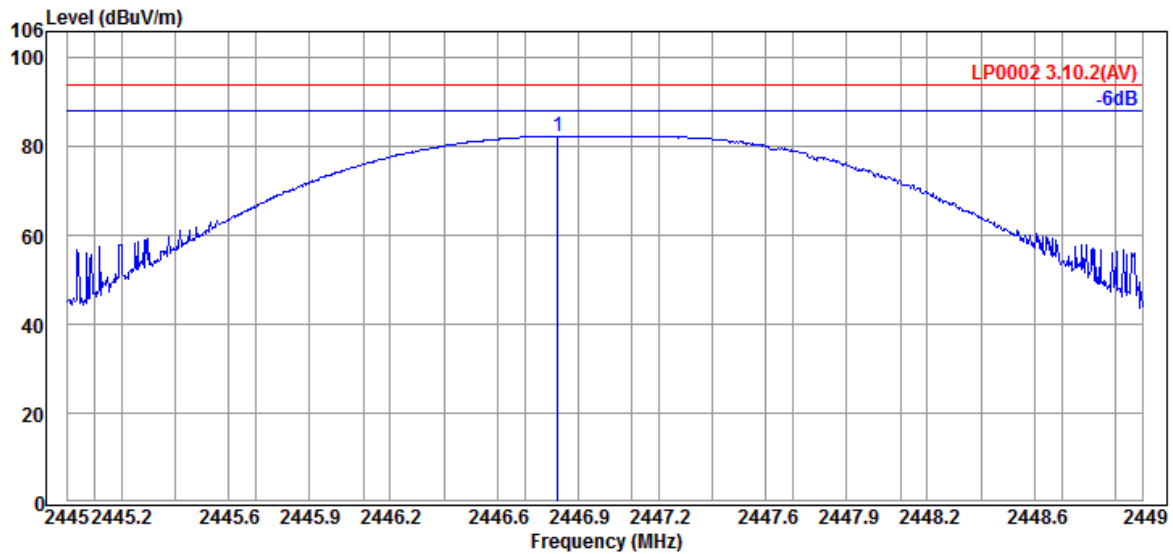
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4914.0000	34.27	9.58	-2.59	41.26	54.00	12.74	Peak

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
4914.0000	34.27	9.58	-0.01	43.84	54.00	10.16	Peak

1.3. 主波發射強度量測

Mode	ANT+	Frequency	TX 2447MHz
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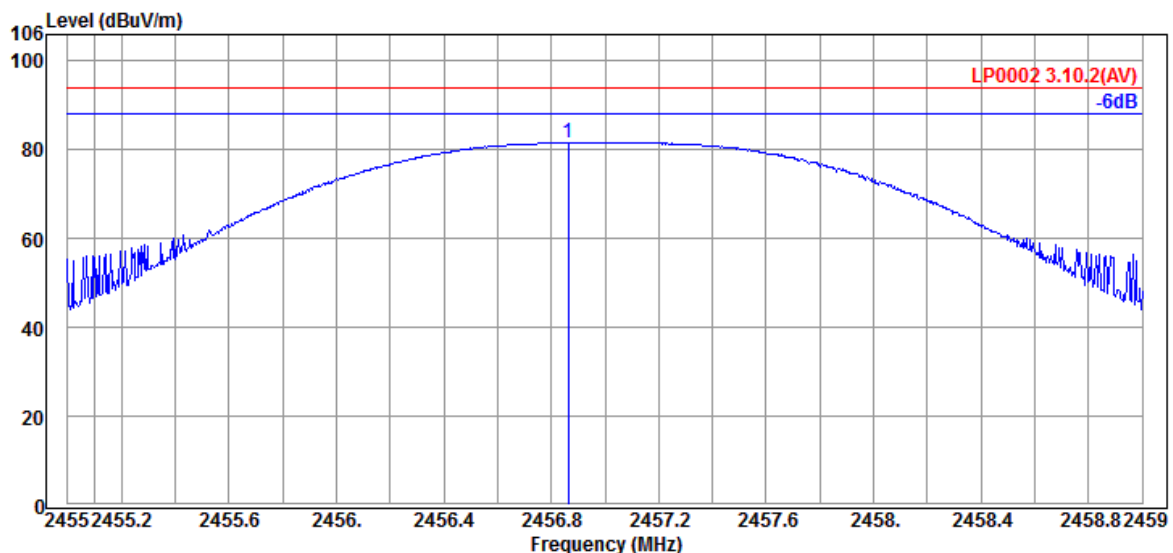
Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2446.8240	32.23	6.63	43.55	82.41	94.00	11.59	Peak

備註: 1. Antenna at horizontal polarization is the worst.

2. 峰值之讀值小於平均值之限制值，故不再對平均值進行讀值。

Mode	ANT+	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

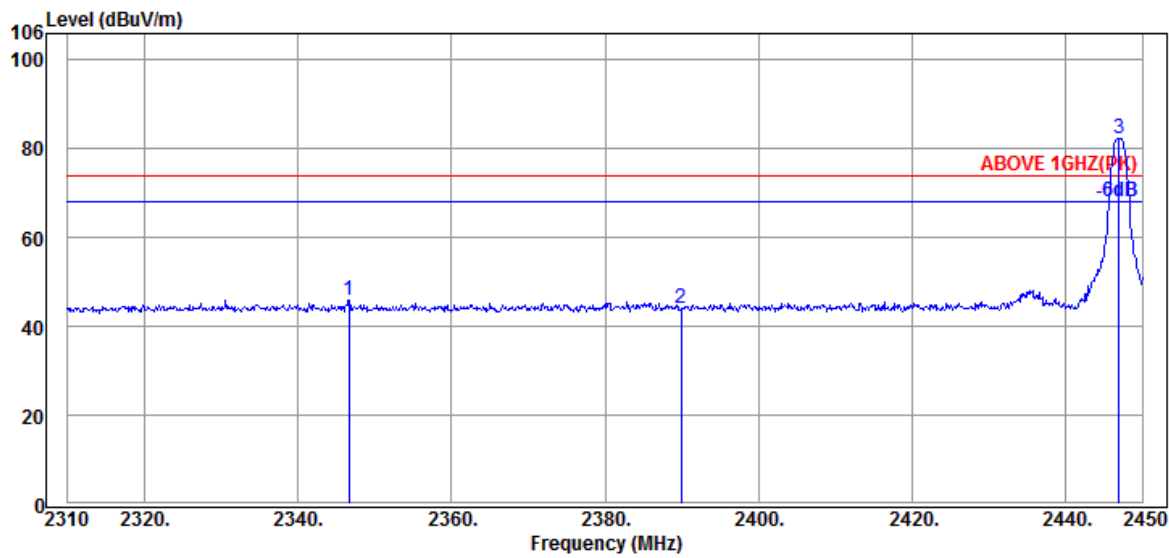
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.8640	32.25	6.65	42.63	81.53	94.00	12.47	Peak

備註: 1. Antenna at horizontal polarization is the worst.

2. 峰值之讀值小於平均值之限制值，故不再對平均值進行讀值。

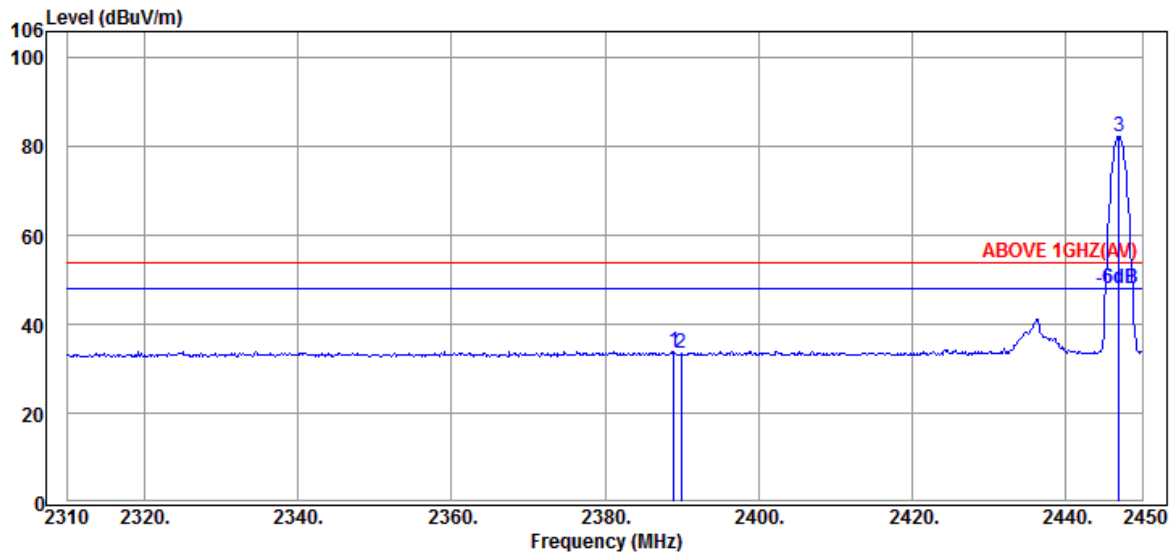
1.4. 禁用頻帶量測結果

Mode	ANT+	Frequency	TX 2447MHz
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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
2346.6800	32.08	6.51	7.20	45.79	74.00	28.21	Peak
2389.9400	32.16	6.57	5.38	44.11	74.00	29.89	Peak
@ 2446.9200	32.23	6.63	43.56	82.42	---	---	Peak

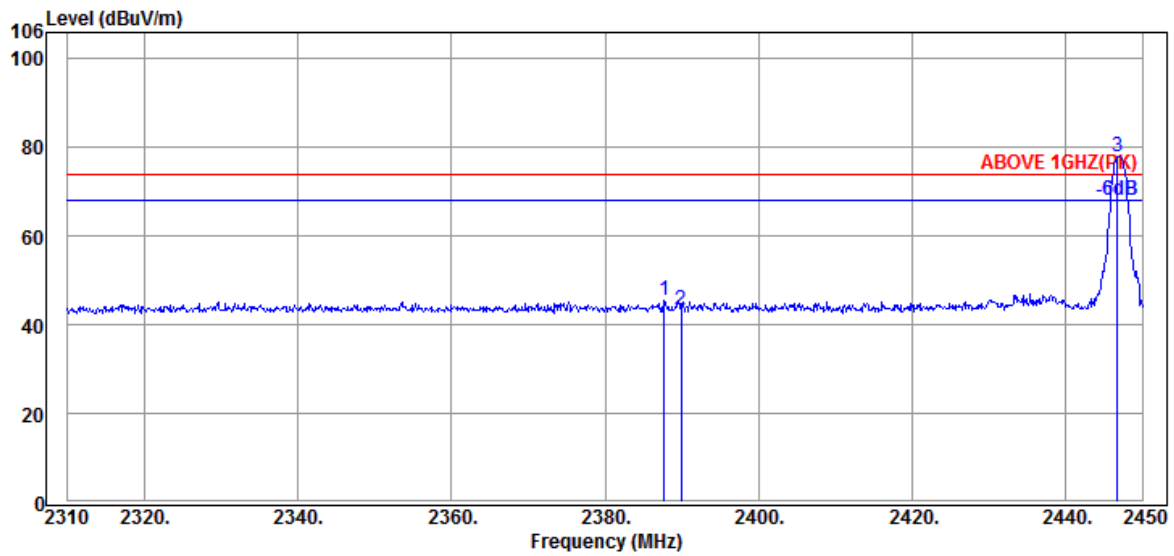


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.9600	32.16	6.57	-4.73	34.00	54.00	20.00	Average
2389.9400	32.16	6.57	-5.38	33.35	54.00	20.65	Average
@ 2446.9200	32.23	6.63	43.55	82.41	---	---	Average

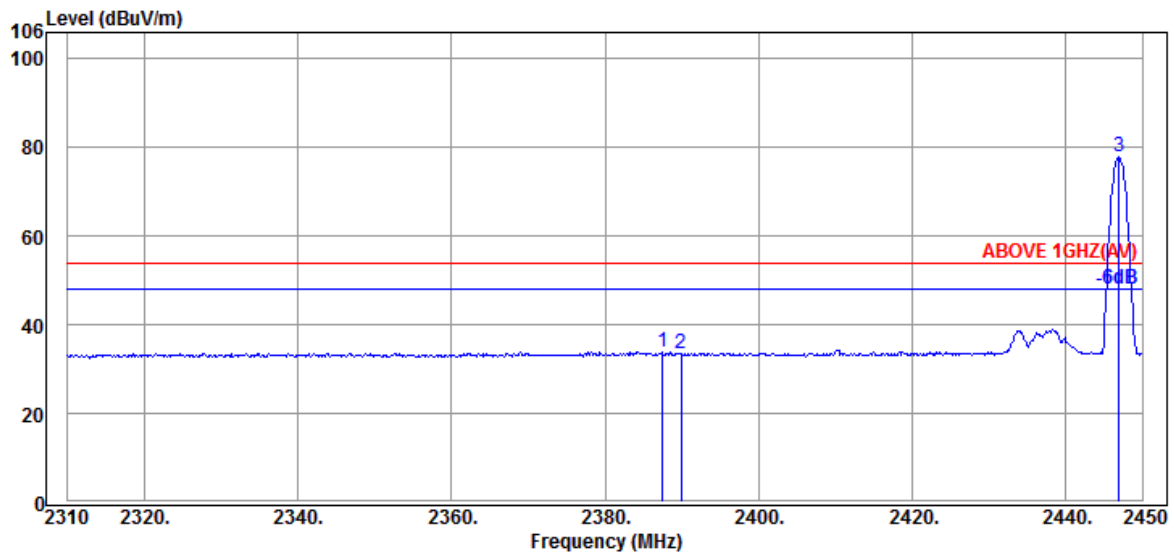
備註：“@”為主波，在此章節是不予以判定。

Mode	ANT+	Frequency	TX 2447MHz
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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
2387.7000	32.16	6.57	6.70	45.43	74.00	28.57	Peak
2389.9400	32.16	6.57	4.58	43.31	74.00	30.69	Peak
@ 2446.7800	32.23	6.63	39.04	77.90	---	---	Peak

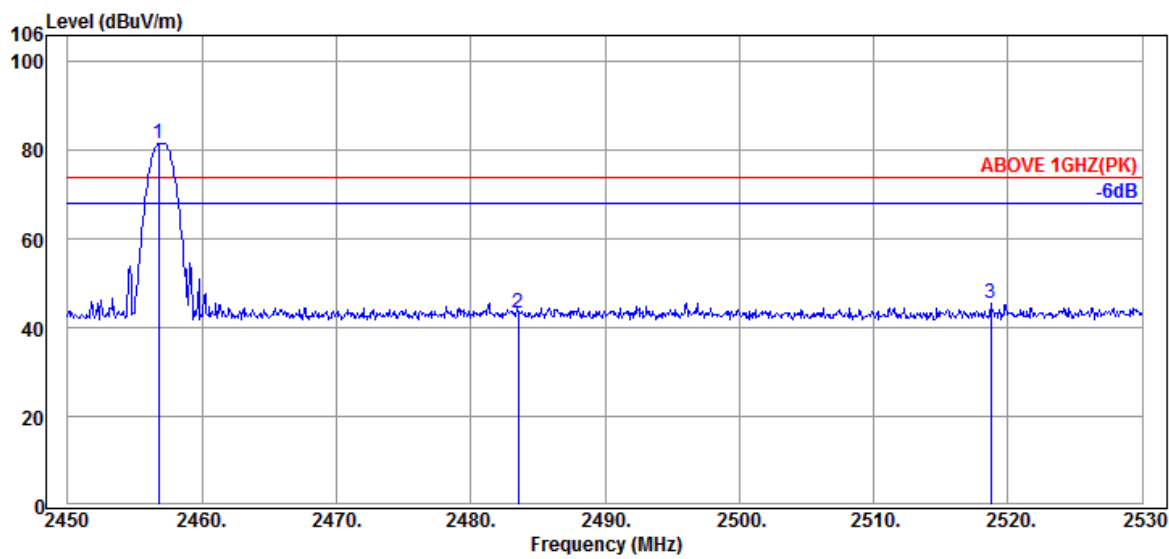


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.5600	32.16	6.57	-4.75	33.98	54.00	20.02	Average
2389.9400	32.16	6.57	-5.36	33.37	54.00	20.63	Average
@ 2446.9200	32.23	6.63	38.91	77.77	---	---	Average

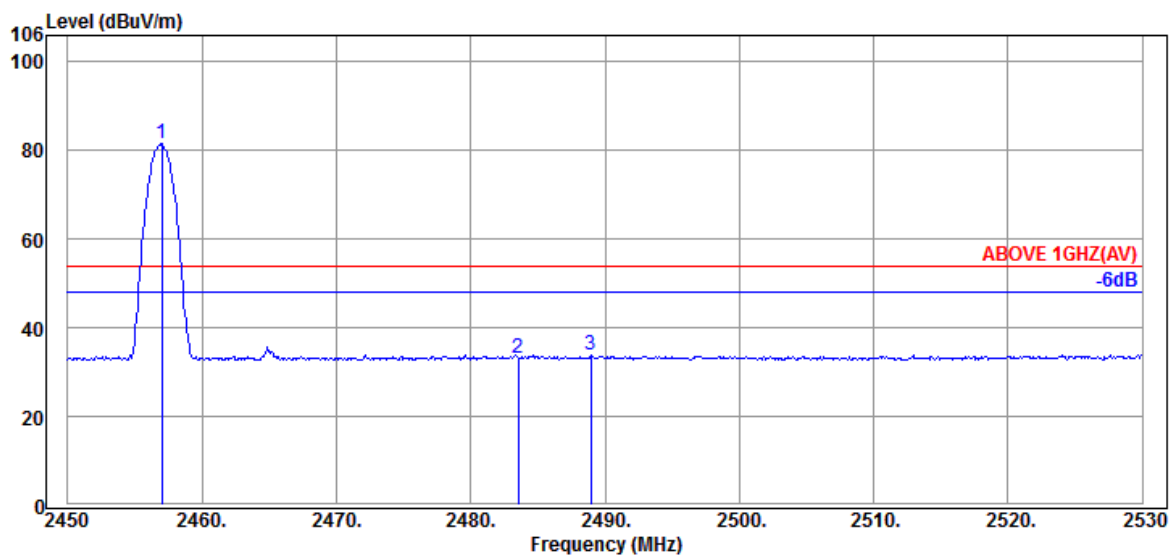
備註：“@”為主波，在此章節是不予以判定。

Mode	ANT+	Frequency	TX 2457MHz
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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
@	2456.8000	32.25	6.65	42.63	81.53	---	---	Peak
	2483.5200	32.28	6.67	4.51	43.46	74.00	30.54	Peak
	2518.7200	32.32	6.72	6.51	45.55	74.00	28.45	Peak

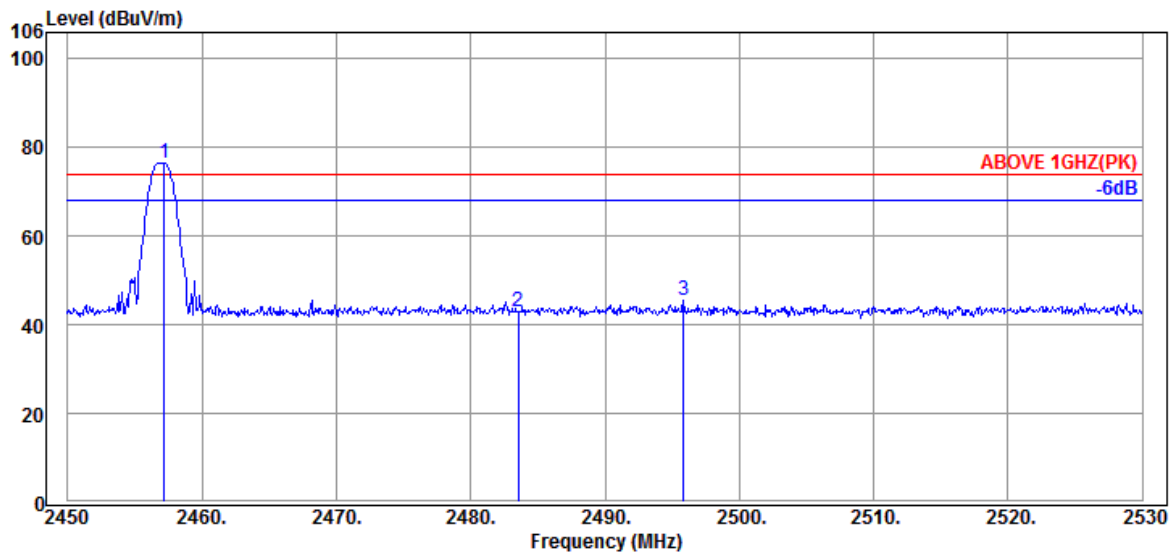


Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2457.0400	32.25	6.65	42.63	81.53	---	---	Average
	2483.5200	32.28	6.67	-5.87	33.08	54.00	20.92	Average
	2488.9600	32.30	6.69	-5.19	33.80	54.00	20.20	Average

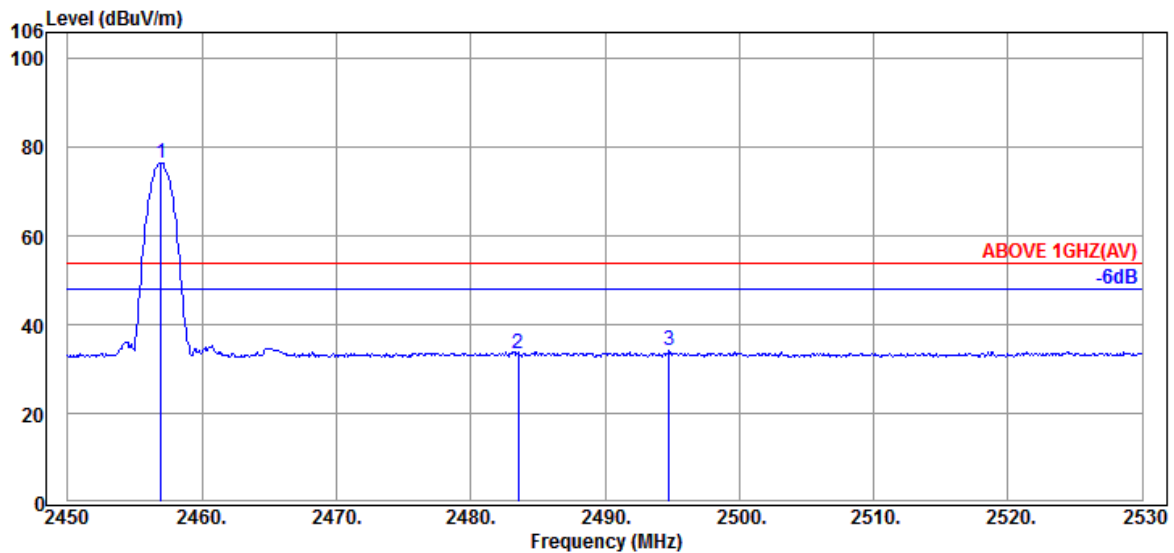
備註：“@”為主波，在此章節是不予以判定。

Mode	ANT+	Frequency	TX 2457MHz
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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
@ 2457.2000	32.25	6.65	37.77	76.67	---	---	Peak
2483.5200	32.28	6.67	3.89	42.84	74.00	31.16	Peak
2495.8400	32.30	6.69	6.60	45.59	74.00	28.41	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
@ 2456.9600	32.25	6.65	37.74	76.64	---	---	Average
2483.5200	32.28	6.67	-5.44	33.51	54.00	20.49	Average
2494.8000	32.30	6.69	-4.86	34.13	54.00	19.87	Average

備註：“@”為主波，在此章節是不予以判定。

2. 發射頻寬之量測

測試日期	2018/10/04	環境溫/濕度	24°C/53%
測試電壓	DC 3.0V(經電池供電)		

2.1. 發射頻寬

測試頻率	頻寬(MHz)
2447MHz	1.0109
2457MHz	1.0061

2.2. 發射頻寬之量測圖

