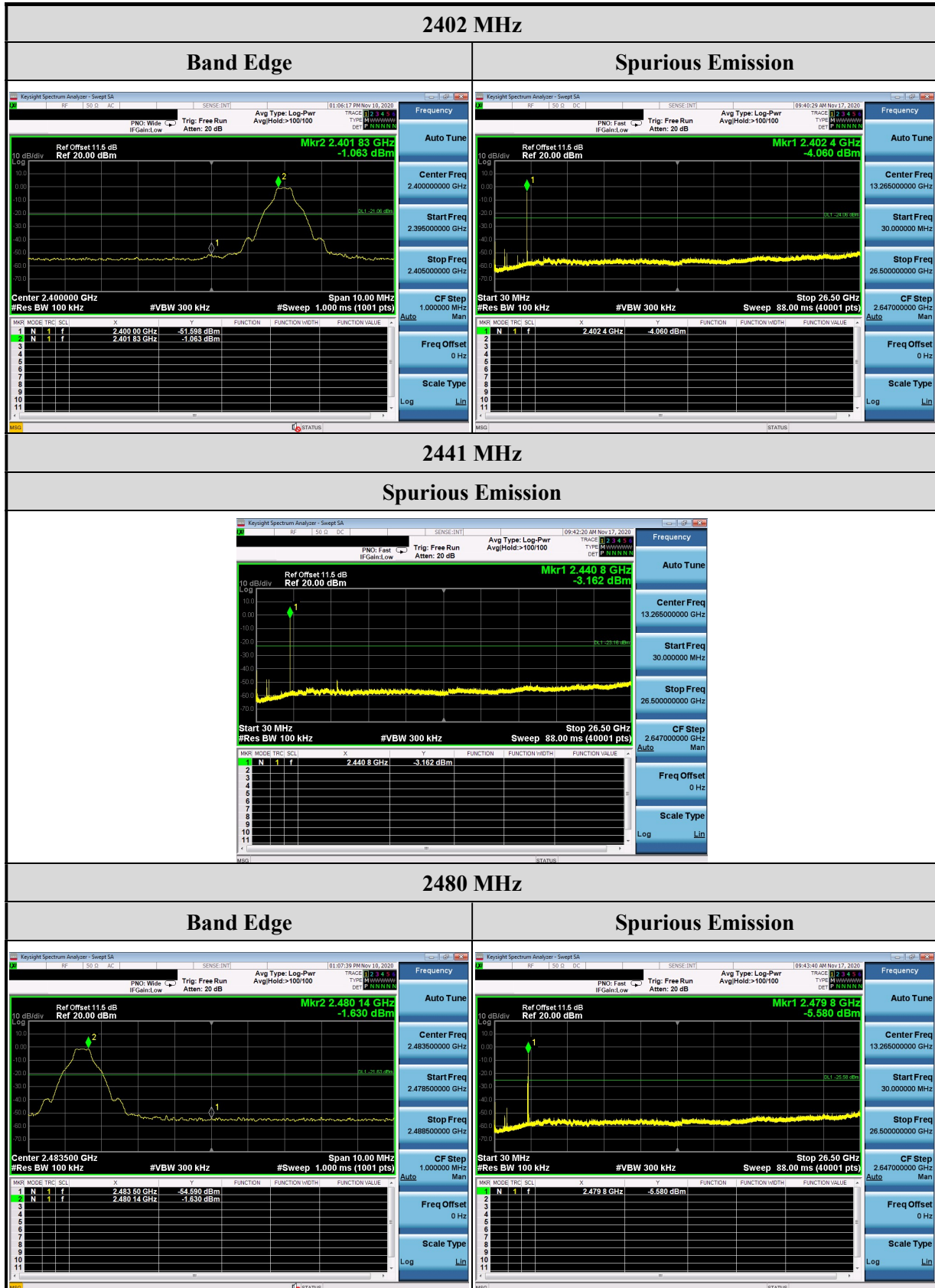
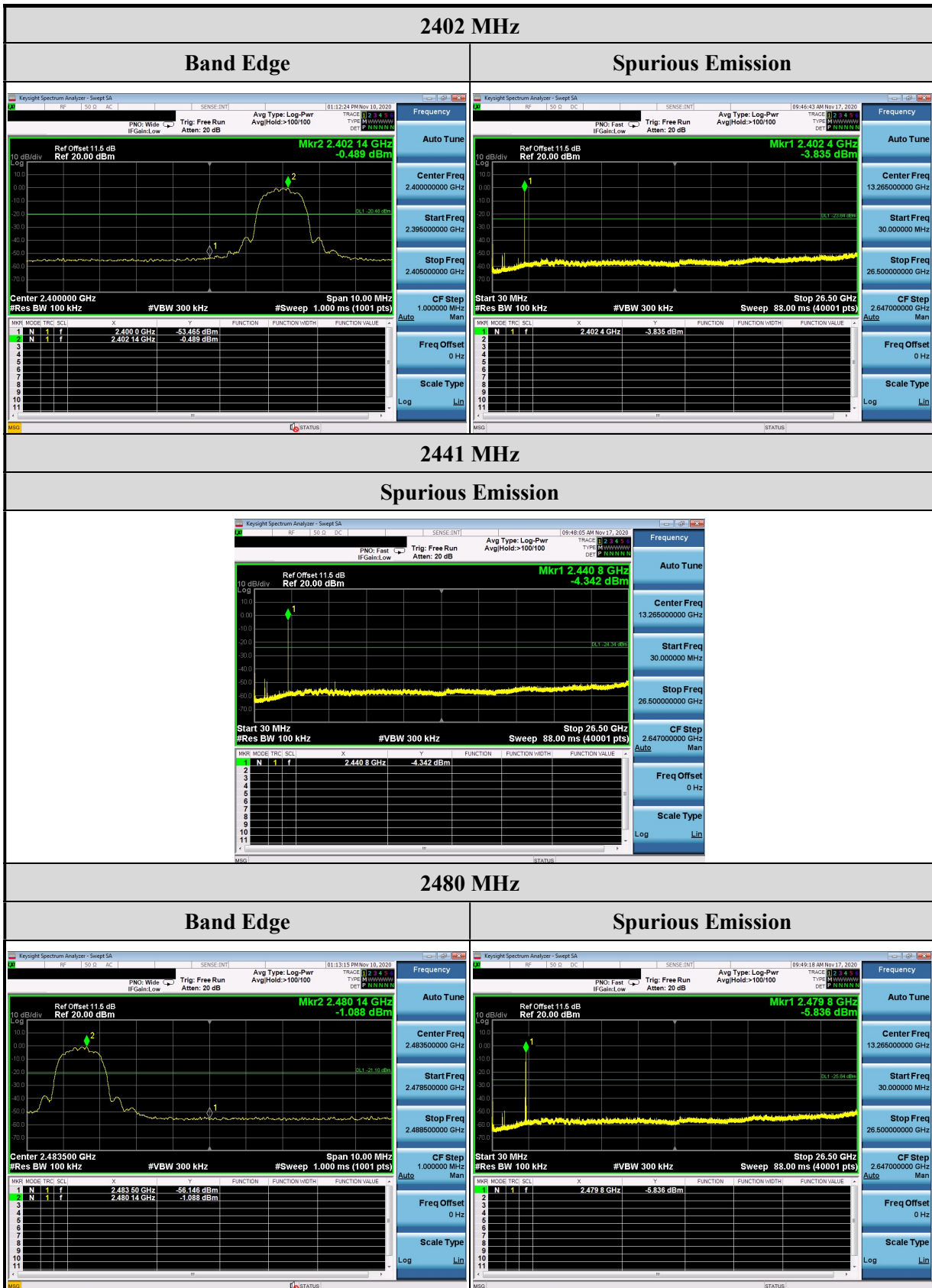


2.7.4 測試結果

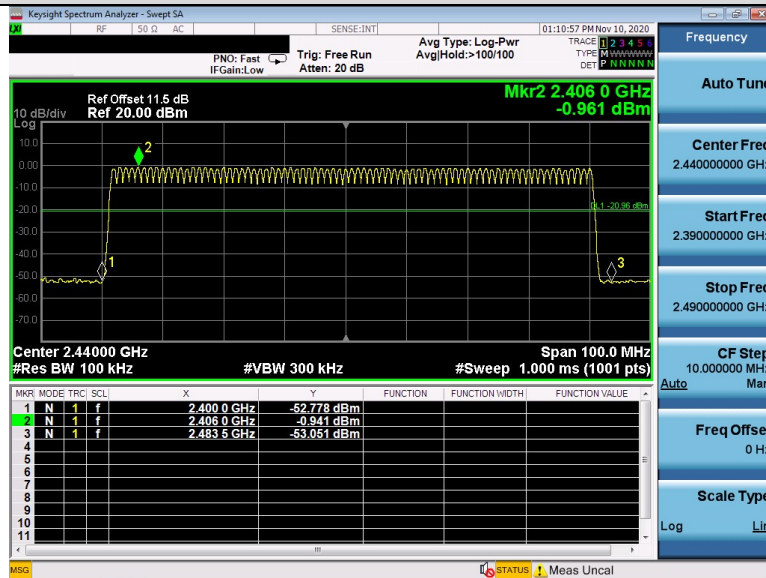
1 Mbps-DH5



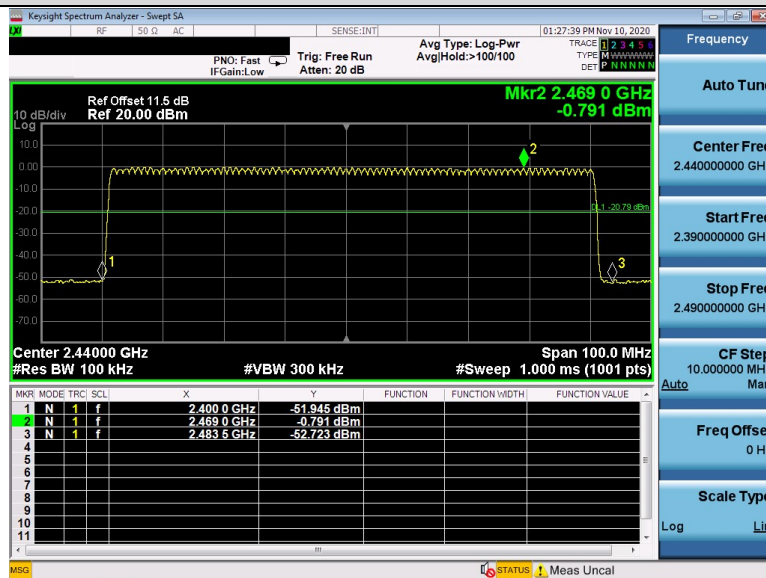
3 Mbps-DH5



1 Mbps-DH5 Hopping Band Edge



3 Mbps-DH5 Hopping Band Edge



2.8 不必要之發射

2.8.1 限制值

- 操作頻帶範圍外之任意 100 kHz 內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 kHz 內的射頻功率，其衰減值限制如下：
 - 輸出功率以附件二之峰值輸出功率方式測量者，至少須衰減 20 dB，可使用射頻傳導或輻射方式測量。
 - 輸出功率以 3.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少須衰減 30 dB。
- 依據 NCC 低功率射頻電機技術規範第 2.8 節之規定，除本規範各章節另有放寬規定者外，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

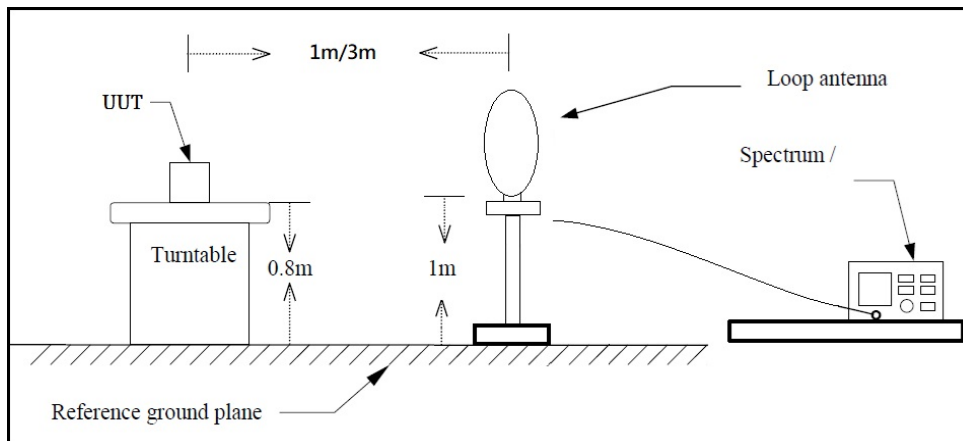
頻率(f) (MHz)	電場強度 (微伏特/公尺, $\mu\text{V/m}$)	量測距離 (公尺)
0.009 ~ 0.490	2400 / f(kHz)	300
0.490 ~ 1.705	24000 / f(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

備註：

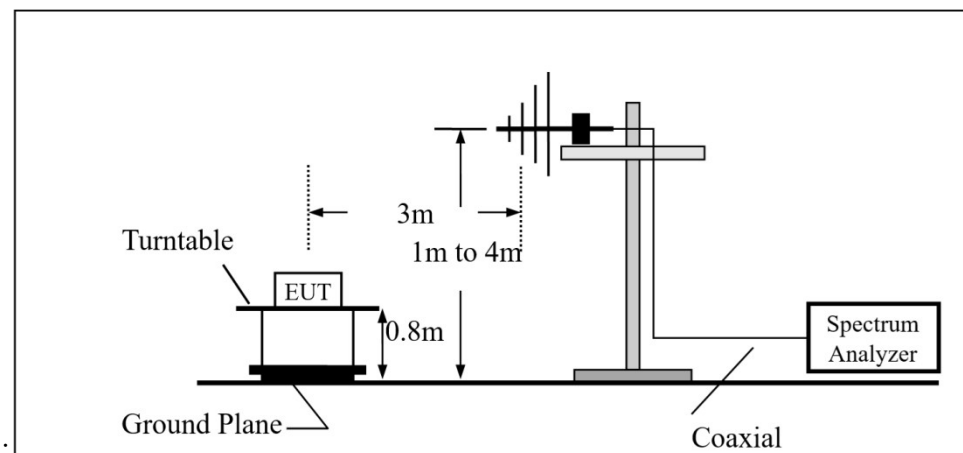
- 電場強度 ($\text{dB}\mu\text{V/m}$) = $20 \log$ 電場強度($\mu\text{V/m}$)。
- 距離是指測量儀器天線與設備之間的距離。
- 上表規定之電場強度，發射頻率在 9 kHz~90 kHz、110 kHz~490 kHz 及 1000 MHz 以上者，其量測應以平均值檢波器為基準，且應符合 NCC 低功率射頻電機技術規範第 5.15.2 節之規定；其他發射頻率，應以國際無線電干擾特別委員會 (INTERNATIONAL SPECIAL COMMITTEE ON RADIO INTERFERENCE, CISPR) 準峰值檢波器(quasi-peak detector)測量；非以上表所指定之距離測量時，應符合 NCC 低功率射頻電機技術規範第 5.5 節之規定，輻射發射之量測頻率範圍應符合 NCC 低功率射頻電機技術規範第 5.14 節之規定。

2.8.2 測試架構

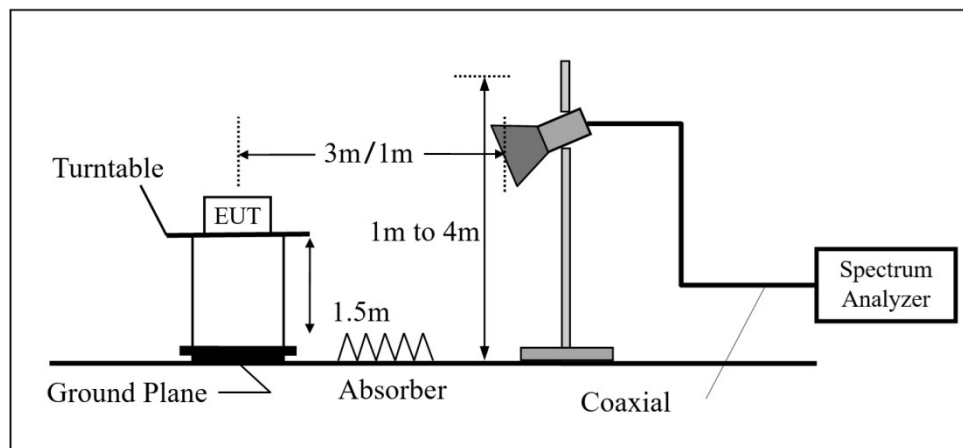
Below 30 MHz:



30 MHz ~ 1 GHz:



Above 1GHz:



2.8.3 測試流程

低於 30MHz 的輻射發射

- (1) 將 EUT 放置在距離地面 0.8 米的非導體桌面的 3 米室內。將桌子旋轉 360 度以確定最高輻射的位置。
- (2) EUT 設置在離接收天線 3 米遠處，干擾接收天線安裝在可變高度天線塔的頂部。
- (3) 設置天線的平行、垂直方向以進行測量。
- (4) 將測試接收機系統設置為準峰值檢測功能和具有最大保持模式的指定帶寬。

30MHz 以上的輻射發射

- (1) 將 EUT 放置在距離地面 0.8 米（低於 1GHz）/1.5 米（高於 1GHz）的非導體桌面的 3 米室內。將桌子旋轉 360 度以確定最高輻射的位置。
- (2) EUT 設置在離接收天線 3 米處，天線的高度在離地面 1 米到 4 米之間變化，以確定場強的最大值。
- (3) 設置天線的平行、垂直方向以進行測量。
- (4) 當測試頻率低於 1GHz 時，測試接收機系統被設置為準峰值檢測功能和具有最大保持模式的指定帶寬。
- (5) 當測試頻率高於 1 GHz 時，測試接收機系統設置為峰值和平均檢測功能以及具有最大保持模式的指定帶寬。如果峰值讀數值也滿足平均限值，則不需要使用平均值檢測器進行測量。

2.8.4 工作週期

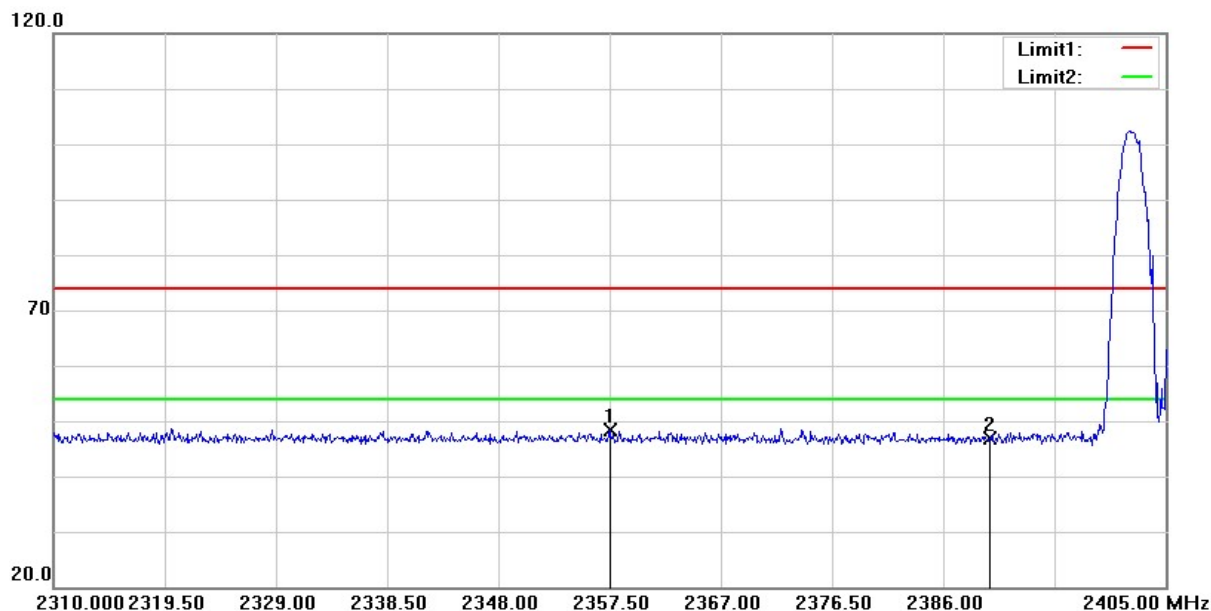
Mode	Data Rate (Mbps)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
BT	1	2.900	4.990	0.581	2.357	0.345
	3	2.900	5.000	0.580	2.366	0.345

2.8.5 輻射頻帶邊緣測試

下表為輻射測量，在X、Y、Z三個軸向中預掃描。本報告中記錄了最差情況（X軸向）。

Test Frequency	
RF	BT 1 Mbps / 3 Mbps
Tx	CH00 (2402 MHz)
	CH78 (2480 MHz)

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

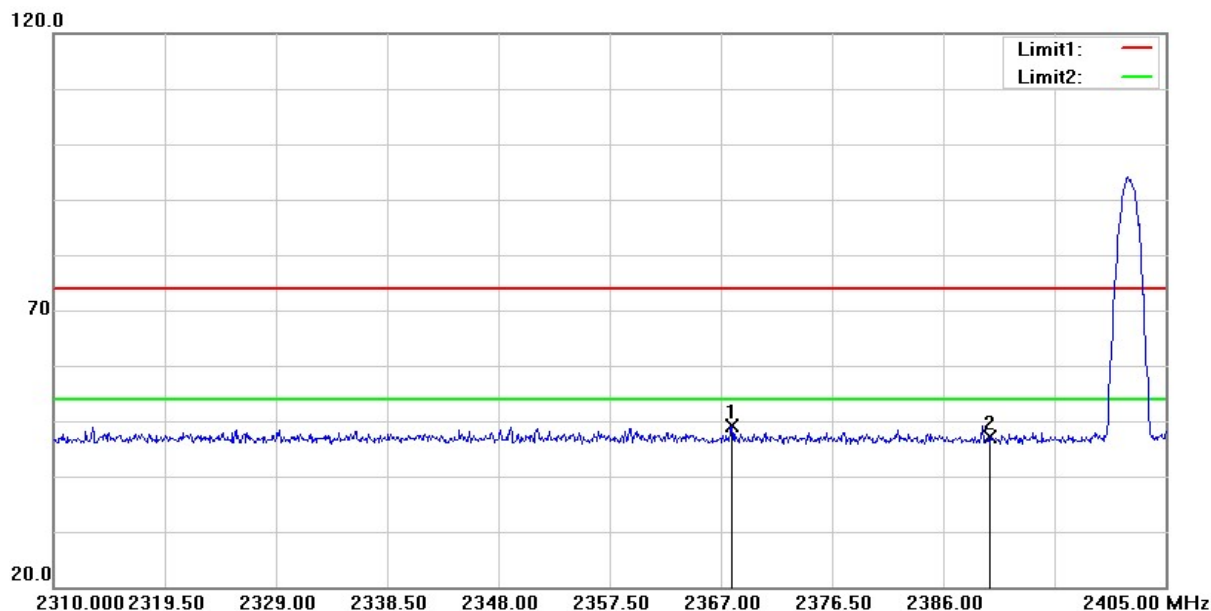


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2357.500	53.73	-5.43	48.30	74.00	-25.70	peak
2	2390.000	52.45	-5.55	46.90	74.00	-27.10	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

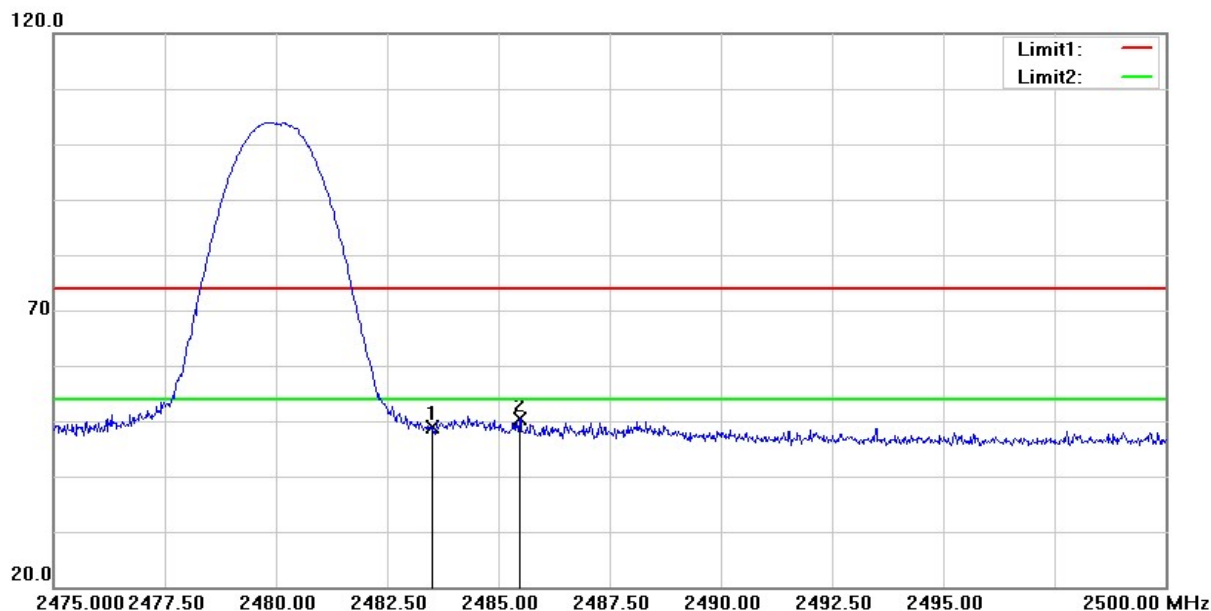


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2367.950	54.49	-5.47	49.02	74.00	-24.98	peak
2	2390.000	52.65	-5.55	47.10	74.00	-26.90	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

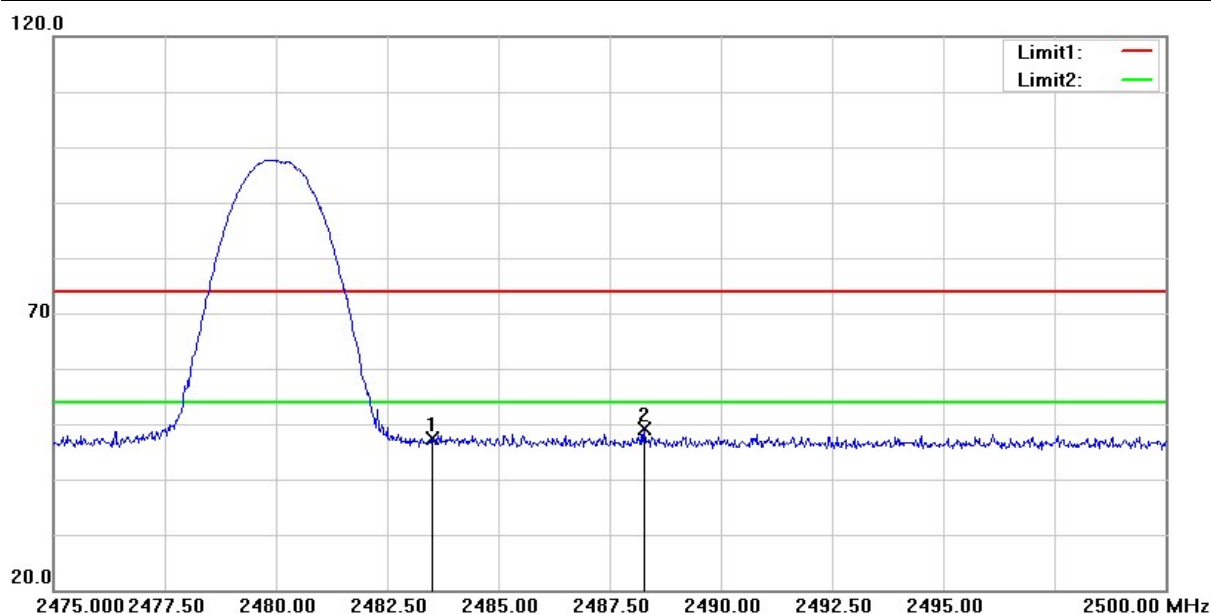


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	54.46	-5.66	48.80	74.00	-25.20	peak
2	2485.475	55.93	-5.64	50.29	74.00	-23.71	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

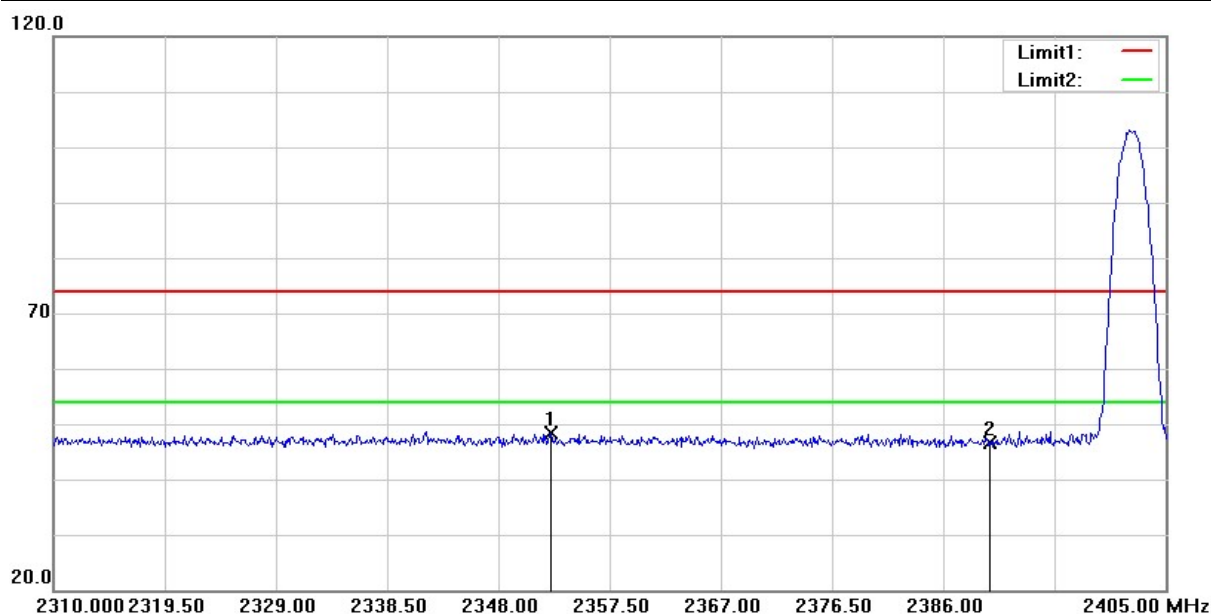


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	53.06	-5.66	47.40	74.00	-26.60	peak
2	2488.275	54.86	-5.65	49.21	74.00	-24.79	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

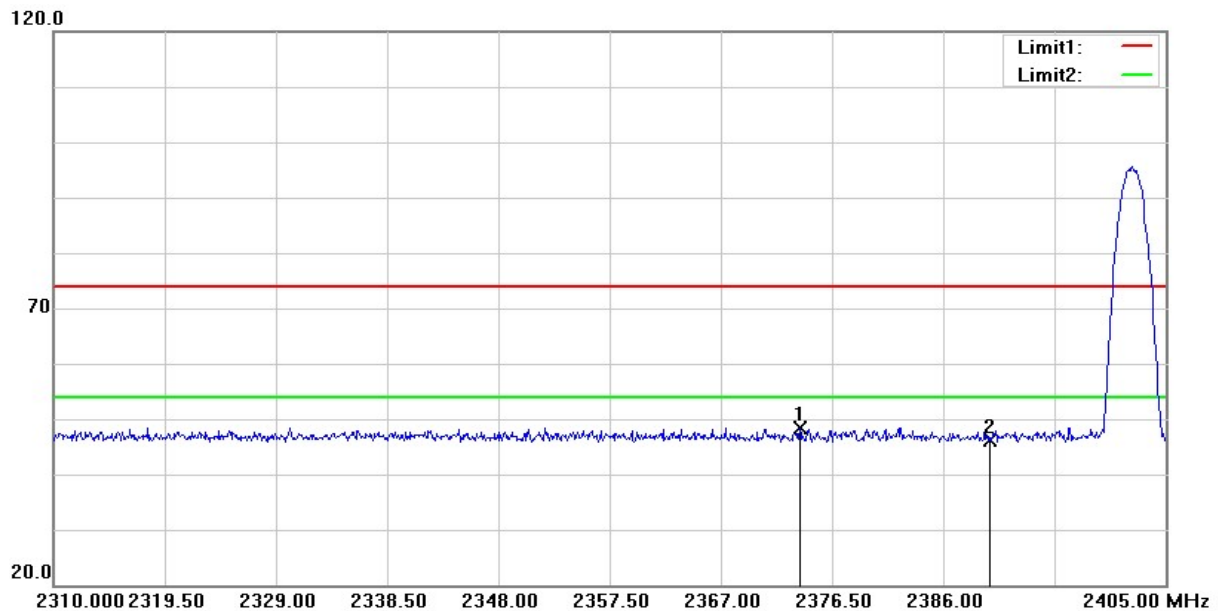


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2352.465	53.85	-5.42	48.43	74.00	-25.57	peak
2	2390.000	52.17	-5.55	46.62	74.00	-27.38	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

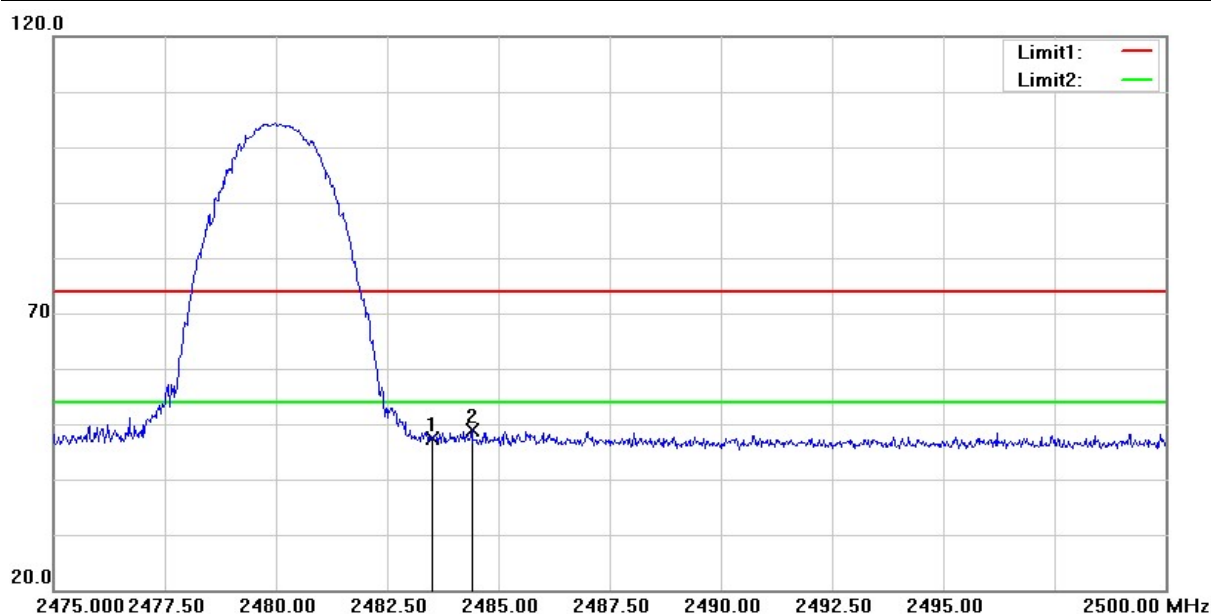


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2373.745	53.99	-5.49	48.50	74.00	-25.50	peak
2	2390.000	51.76	-5.55	46.21	74.00	-27.79	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

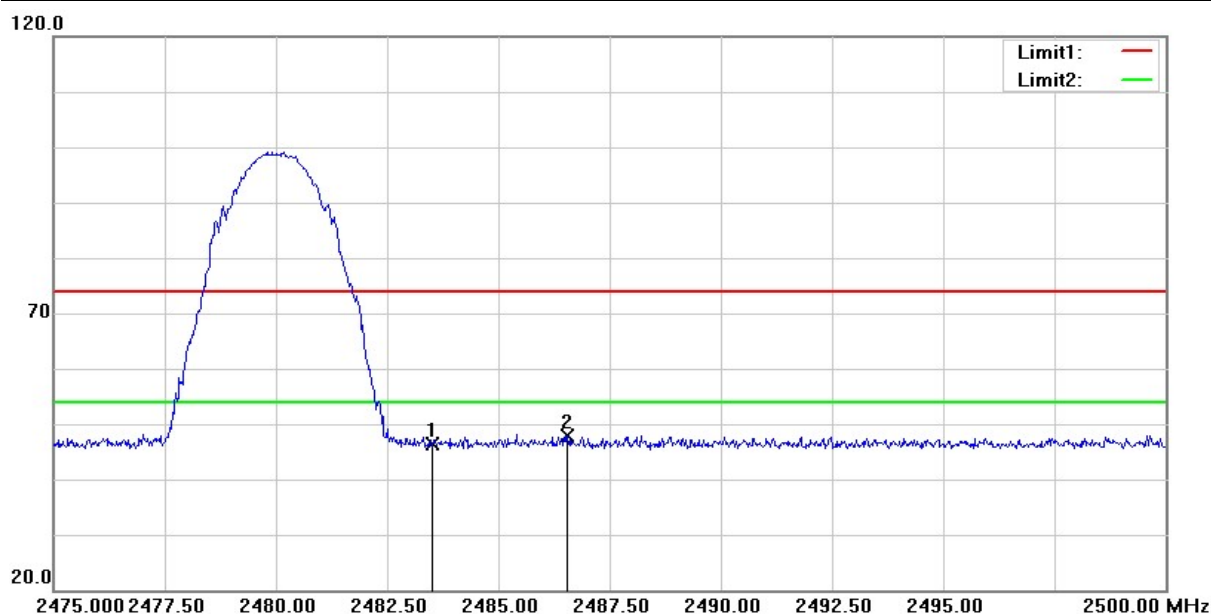


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	53.02	-5.66	47.36	74.00	-26.64	peak
2	2484.400	54.64	-5.64	49.00	74.00	-25.00	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	52.03	-5.66	46.37	74.00	-27.63	peak
2	2486.550	53.49	-5.64	47.85	74.00	-26.15	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

2.8.6 輻射雜散發射測試

- (1) 輻射量測頻率 9kHz ~ 30MHz，此頻率範圍之干擾值低於限制值 20dB 以下，被考量為背景雜訊值並不予紀錄。
- (2) 下表為輻射測量頻率 30MHz ~ 26.5GHz，在 X、Y、Z 三個軸向中預掃描。本報告中記錄了最壞情況（X 軸向）。

Test Frequency	
RF	BT
Tx	CH00 (2402 MHz)
	CH39 (2441 MHz)
	CH78 (2480 MHz)
Rx	CH39 (2441 MHz)

Above 1GHz Data

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

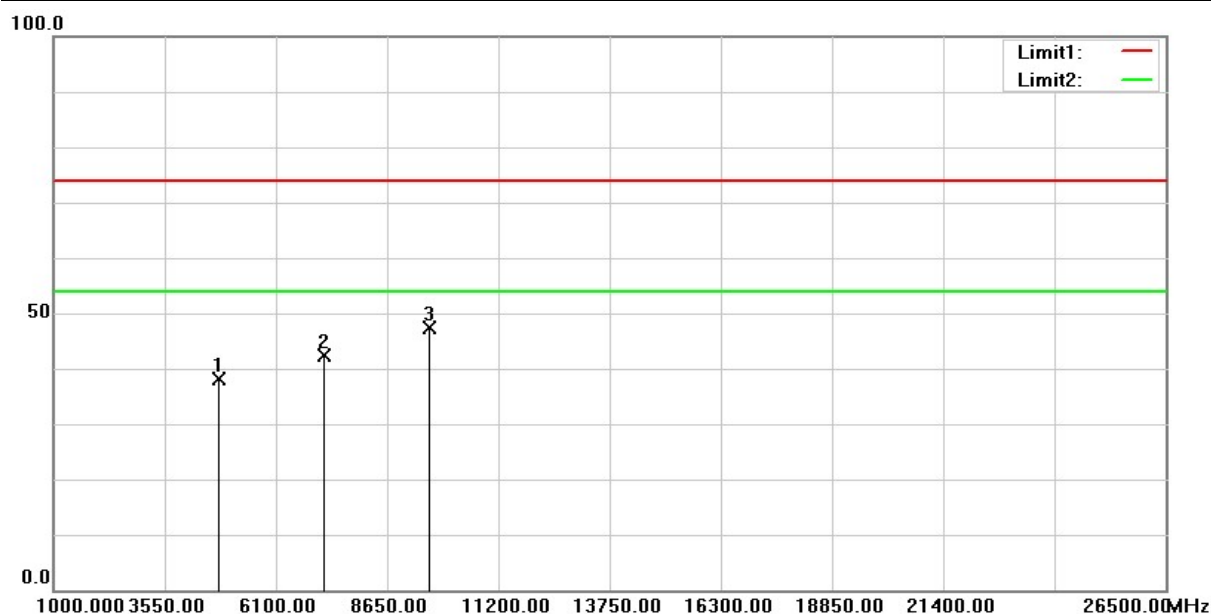


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.95	-19.28	38.67	74.00	-35.33	peak
2	7206.000	55.99	-12.92	43.07	74.00	-30.93	peak
3	9608.000	55.45	-8.52	46.93	74.00	-27.07	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

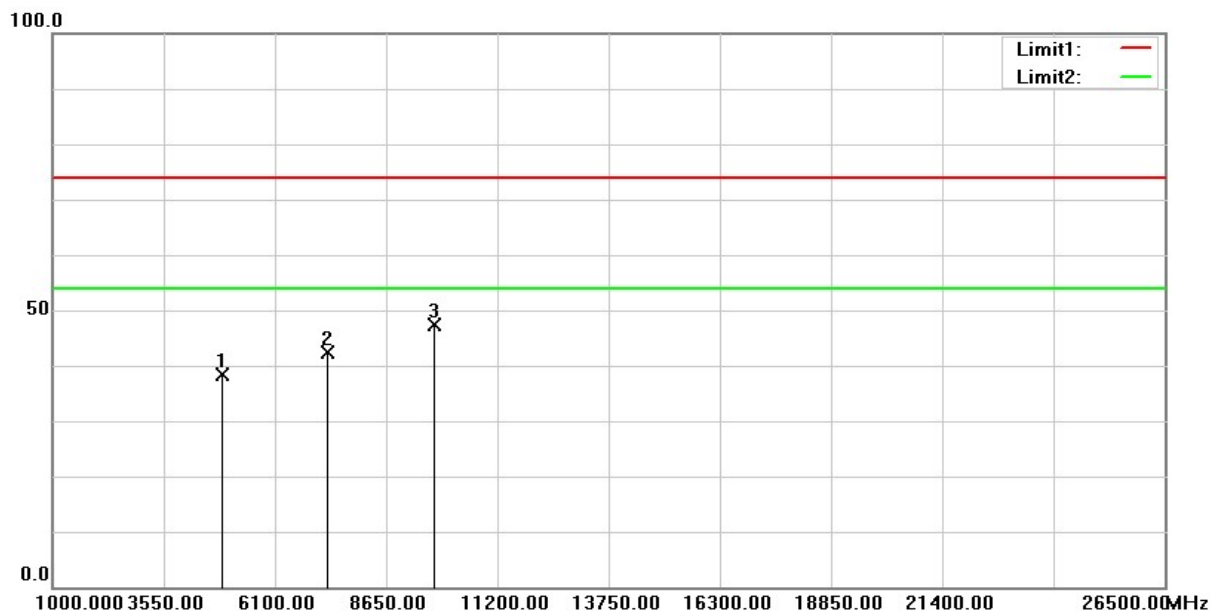


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.37	-19.28	38.09	74.00	-35.91	peak
2	7206.000	55.38	-12.92	42.46	74.00	-31.54	peak
3	9608.000	56.02	-8.52	47.50	74.00	-26.50	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

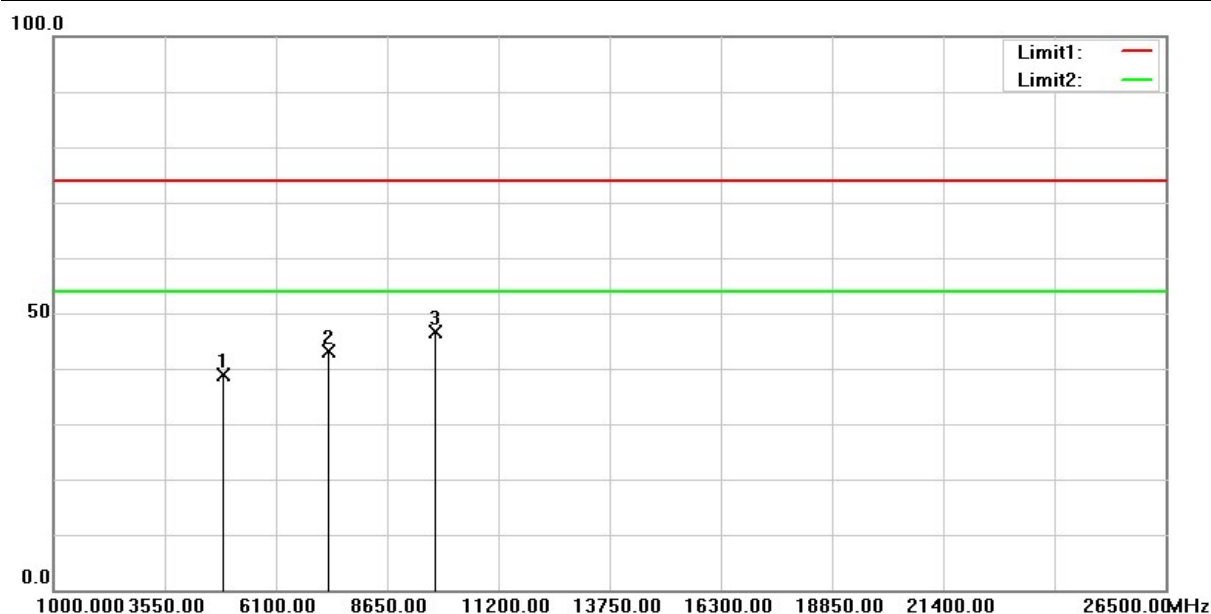


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	57.51	-19.23	38.28	74.00	-35.72	peak
2	7323.000	54.80	-12.51	42.29	74.00	-31.71	peak
3	9764.000	55.73	-8.24	47.49	74.00	-26.51	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	58.04	-19.23	38.81	74.00	-35.19	peak
2	7323.000	55.72	-12.51	43.21	74.00	-30.79	peak
3	9764.000	54.92	-8.24	46.68	74.00	-27.32	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

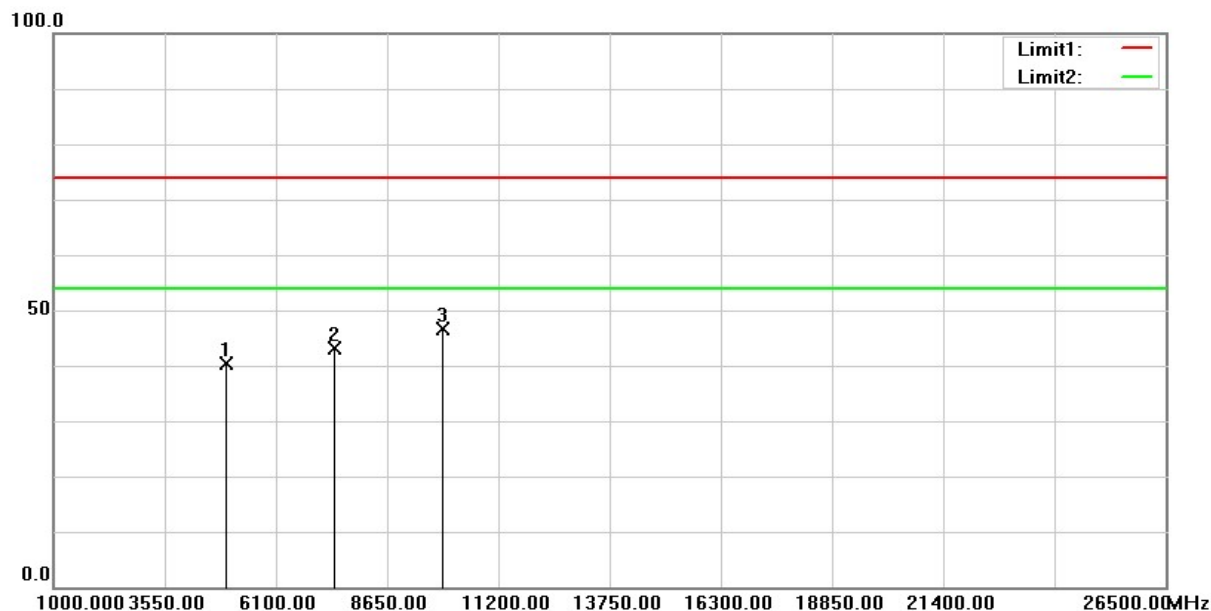


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	57.24	-19.01	38.23	74.00	-35.77	peak
2	7440.000	55.20	-12.14	43.06	74.00	-30.94	peak
3	9920.000	54.73	-8.32	46.41	74.00	-27.59	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	59.42	-19.01	40.41	74.00	-33.59	peak
2	7440.000	55.32	-12.14	43.18	74.00	-30.82	peak
3	9920.000	55.05	-8.32	46.73	74.00	-27.27	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	57.76	-19.28	38.48	74.00	-35.52	peak
2	7206.000	55.56	-12.92	42.64	74.00	-31.36	peak
3	9608.000	55.91	-8.52	47.39	74.00	-26.61	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH00 (2402 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

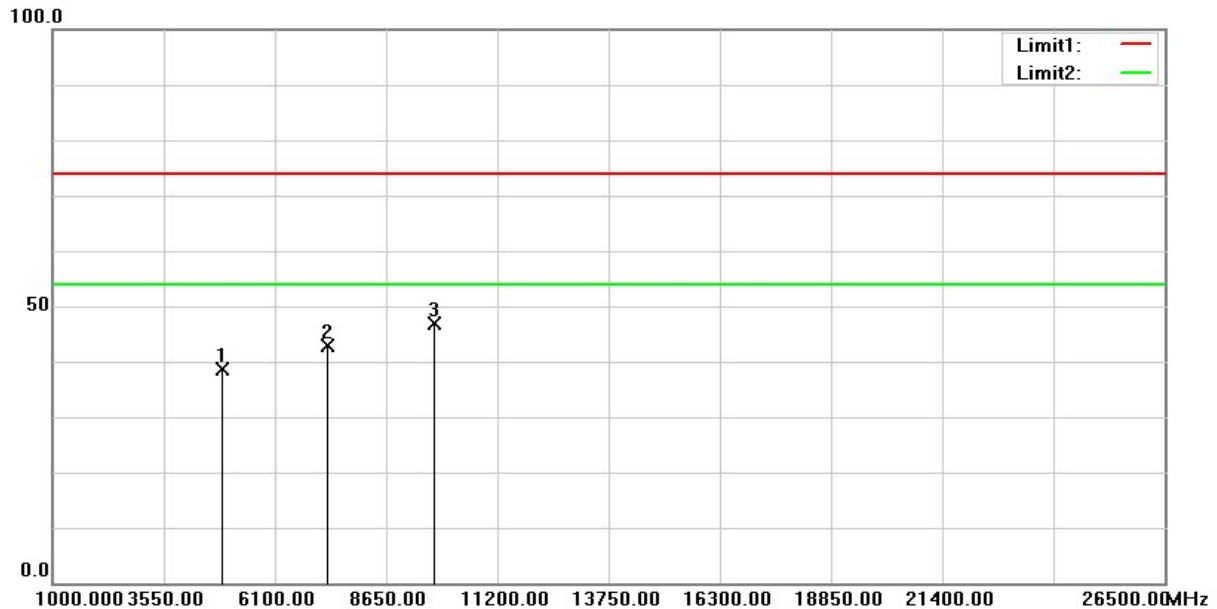


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	58.71	-19.28	39.43	74.00	-34.57	peak
2	7206.000	56.56	-12.92	43.64	74.00	-30.36	peak
3	9608.000	54.75	-8.52	46.23	74.00	-27.77	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

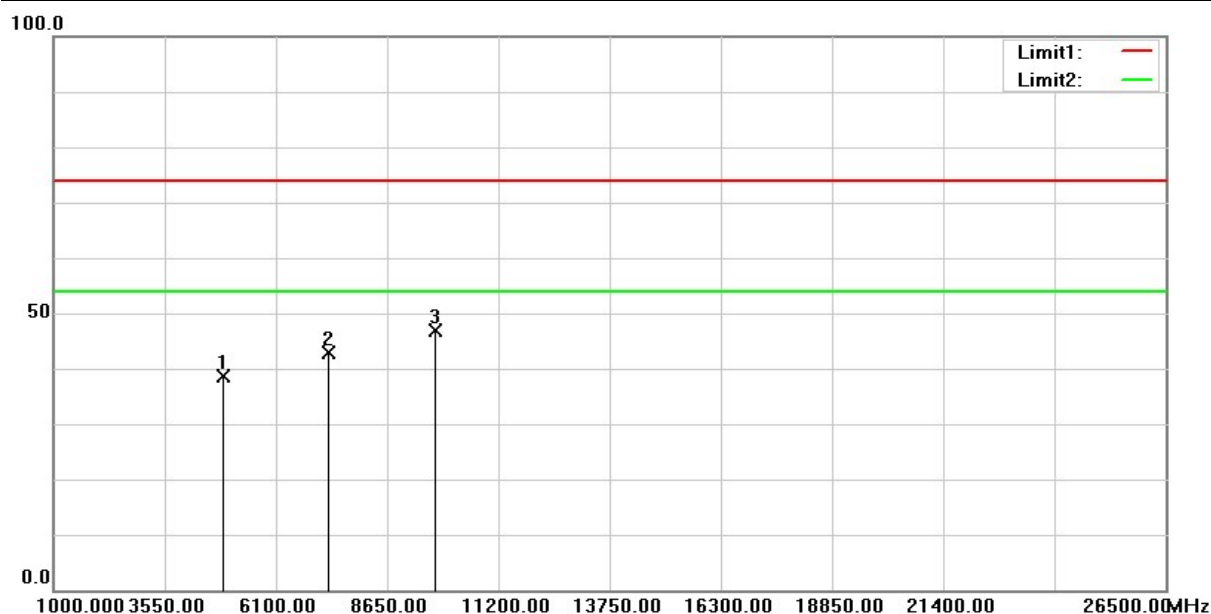


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	57.90	-19.23	38.67	74.00	-35.33	peak
2	7323.000	55.49	-12.51	42.98	74.00	-31.02	peak
3	9764.000	55.01	-8.24	46.77	74.00	-27.23	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

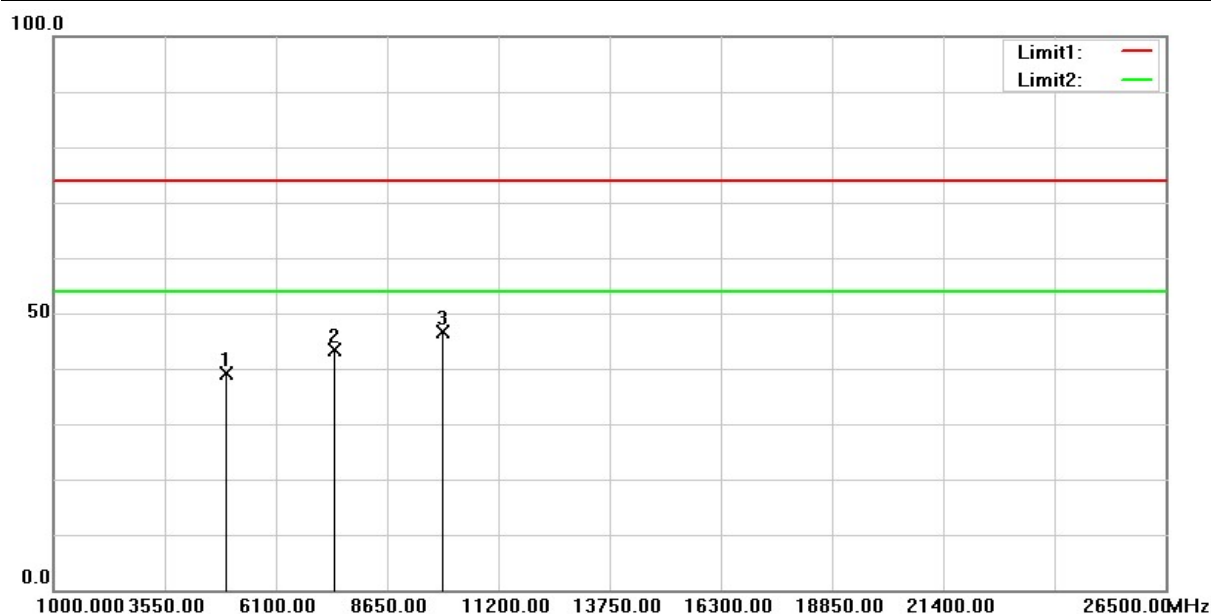


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	57.92	-19.23	38.69	74.00	-35.31	peak
2	7323.000	55.50	-12.51	42.99	74.00	-31.01	peak
3	9764.000	55.07	-8.24	46.83	74.00	-27.17	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	58.09	-19.01	39.08	74.00	-34.92	peak
2	7440.000	55.44	-12.14	43.30	74.00	-30.70	peak
3	9920.000	54.85	-8.32	46.53	74.00	-27.47	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 ; Transmit BT-EDR(3Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH78 (2480 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

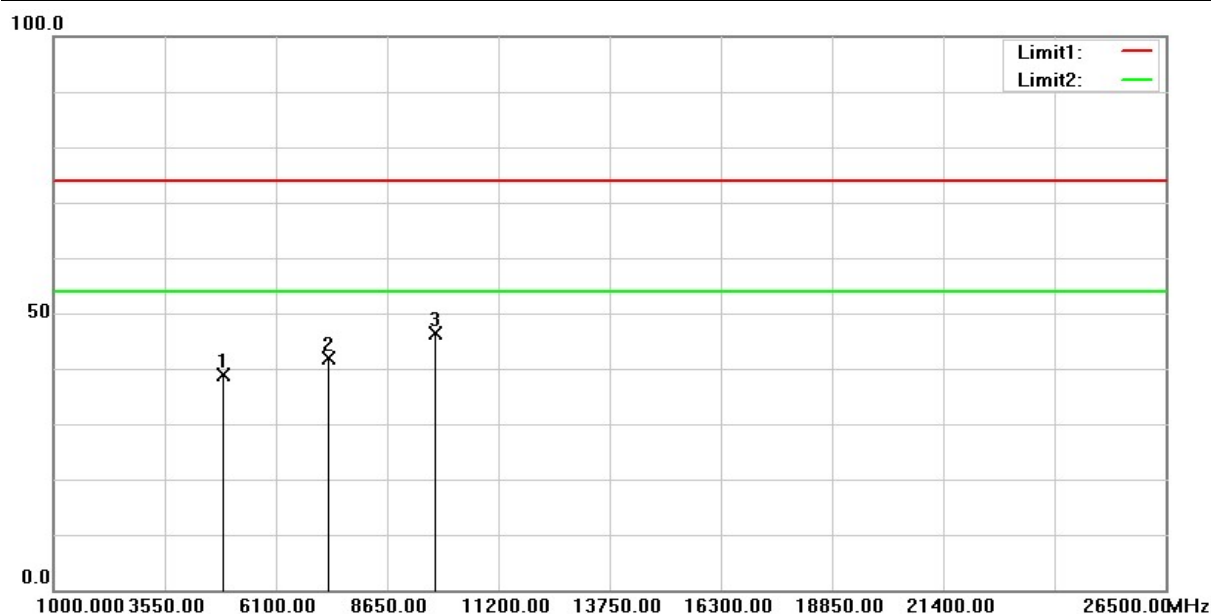


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	60.14	-19.01	41.13	74.00	-32.87	peak
2	7440.000	55.33	-12.14	43.19	74.00	-30.81	peak
3	9920.000	54.66	-8.32	46.34	74.00	-27.66	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 ; Receiver BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

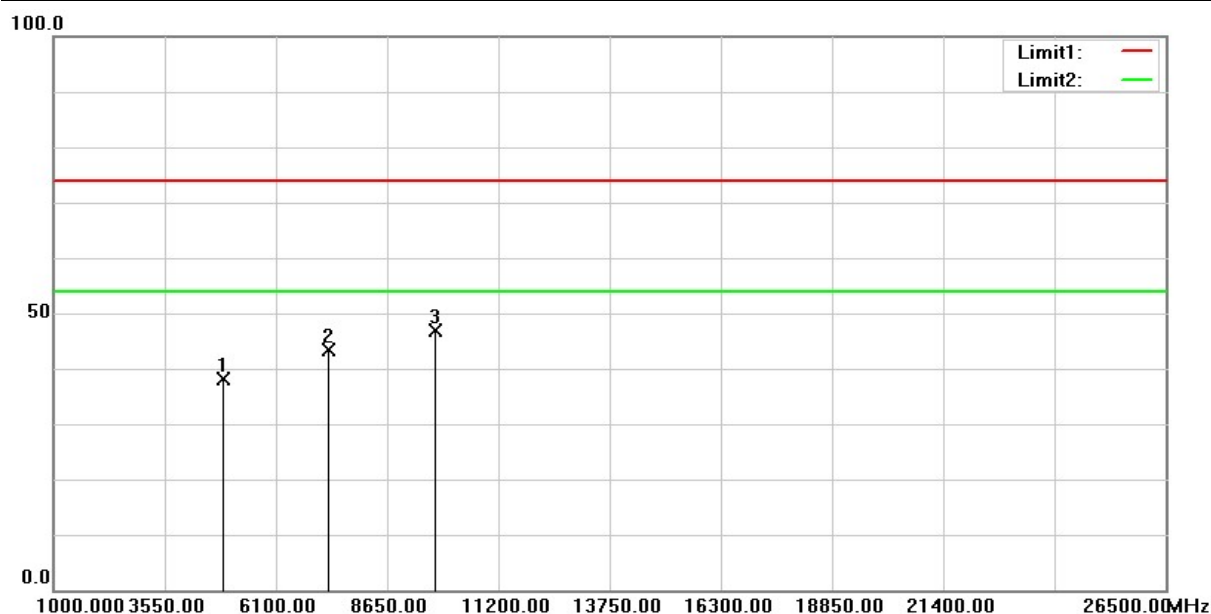


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	58.06	-19.23	38.83	74.00	-35.17	peak
2	7323.000	54.40	-12.51	41.89	74.00	-32.11	peak
3	9764.000	54.67	-8.24	46.43	74.00	-27.57	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 ; Receiver BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



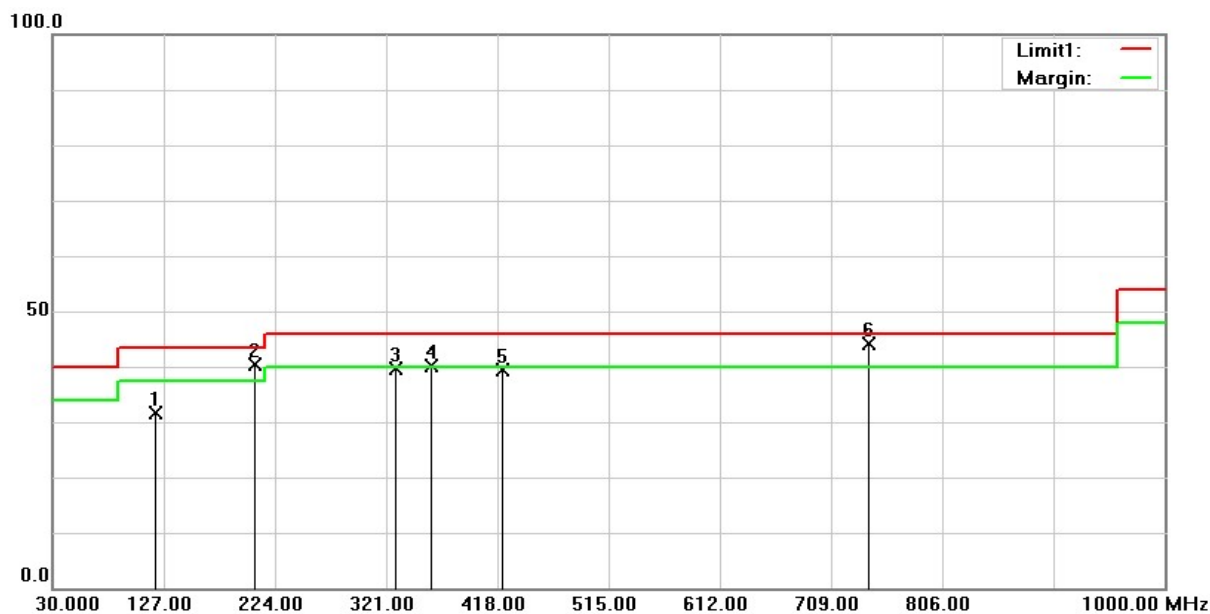
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	57.35	-19.23	38.12	74.00	-35.88	peak
2	7323.000	55.80	-12.51	43.29	74.00	-30.71	peak
3	9764.000	55.18	-8.24	46.94	74.00	-27.06	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Below 1GHz Data

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.2100	43.22	-11.54	31.68	43.50	-11.82	QP
2	206.7800	51.25	-10.98	40.27	43.50	-3.23	QP
3	329.7890	47.05	-7.43	39.62	46.00	-6.38	QP
4	359.9570	47.04	-6.93	40.11	46.00	-5.89	QP
5	421.8800	44.87	-5.48	39.39	46.00	-6.61	QP
6	742.5160	43.65	0.48	44.13	46.00	-1.87	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 ; Transmit BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.2100	47.10	-11.54	35.56	43.50	-7.94	QP
2	164.8300	46.06	-8.70	37.36	43.50	-6.14	QP
3	421.8800	43.31	-5.48	37.83	46.00	-8.17	QP
4	562.5300	40.42	-2.72	37.70	46.00	-8.30	QP
5	742.9500	39.98	0.48	40.46	46.00	-5.54	QP
6	934.0400	33.72	3.86	37.58	46.00	-8.42	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 ; Receiver BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	208.4800	52.57	-10.90	41.67	43.50	-1.83	QP
2	331.6700	48.78	-7.42	41.36	46.00	-4.64	QP
3	359.8000	47.78	-6.94	40.84	46.00	-5.16	QP
4	418.9700	45.12	-5.61	39.51	46.00	-6.49	QP
5	742.4950	43.09	0.34	43.43	46.00	-2.57	QP
6	933.0700	38.04	0.00	38.04	46.00	-7.96	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 ; Receiver BT-BR(1Mbps)	Test Data :	109 年 11 月 05 日
Test Channel	CH39 (2441 MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	49.17	-10.18	38.99	40.00	-1.01	QP
2	42.6100	46.15	-9.18	36.97	40.00	-3.03	QP
3	62.0100	41.82	-10.77	31.05	40.00	-8.95	QP
4	162.8900	46.09	-8.71	37.38	43.50	-6.12	QP
5	422.8500	42.73	-5.45	37.28	46.00	-8.72	QP
6	742.9500	40.38	0.48	40.86	46.00	-5.14	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

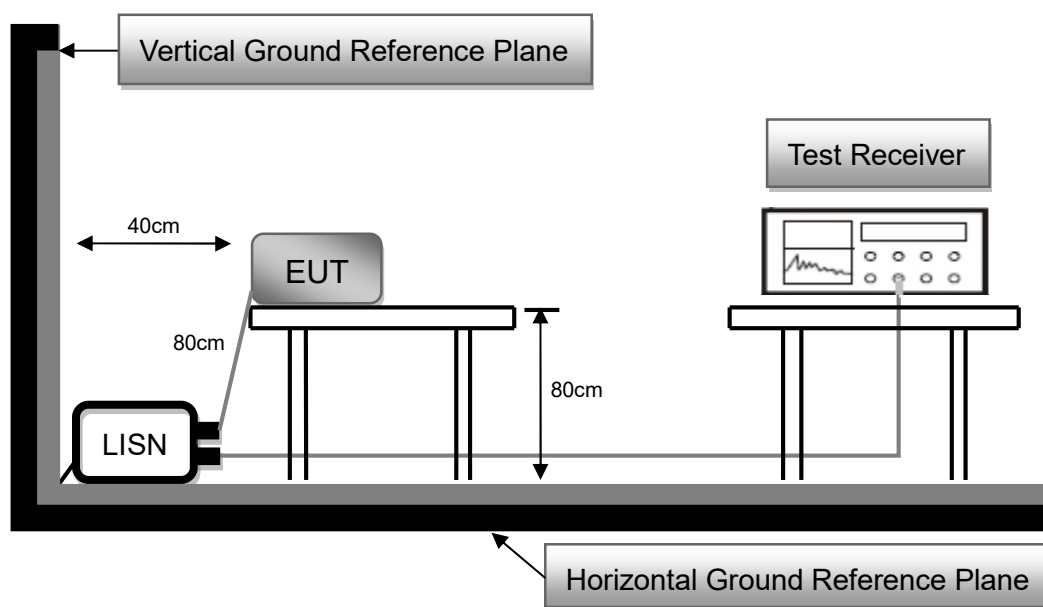
2.9 電源線傳導干擾

2.9.1 限制值

Frequency (MHz)	NCC LP0002 2.3 Limit	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.50 to 5.0	56	46
5.0 to 30.0	60	50

*隨頻率之對數遞減

2.9.2 測試架構

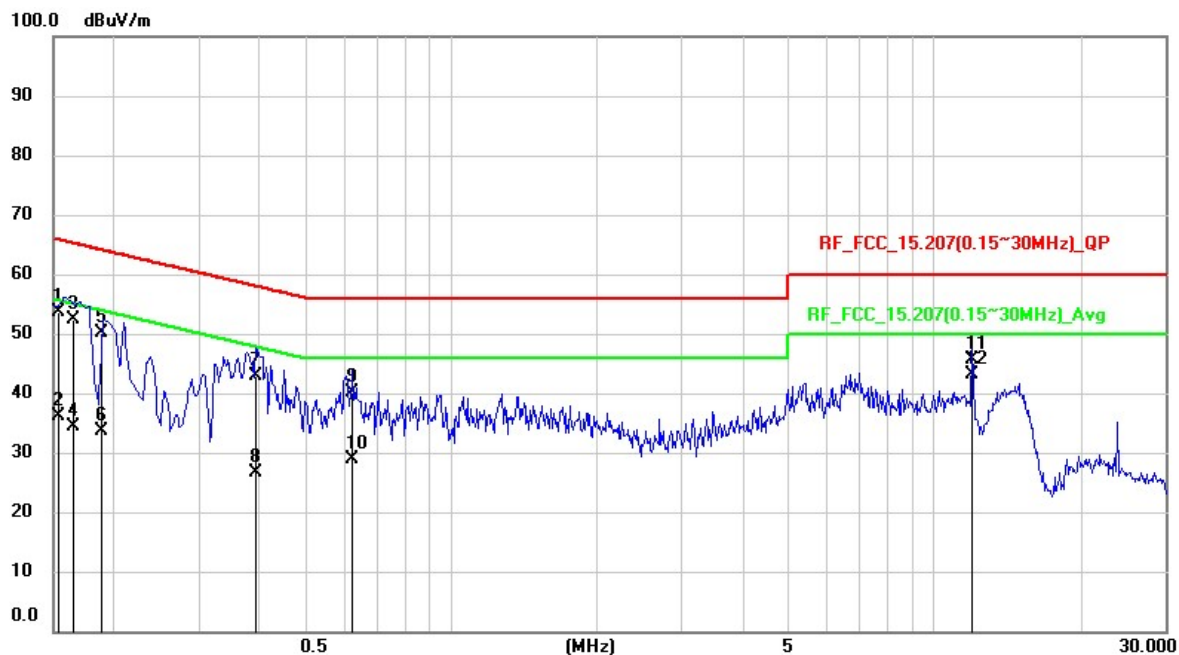


2.9.3 測試流程

1. 待測物從水平地平面放置 0.8 米高的木桌，待測物通過線路阻抗穩定網絡（LISN）連接到電源。LISN 距離最近的待測物底盤至少 80 厘米。
2. 線路阻抗穩定網絡（LISN）為測量儀器提供 50 歐姆/ 50uH 的耦合阻抗。其他設備均由額外的 LISN 提供動力。
3. 懸掛在離地平面 40 厘米以內的相互關聯的電纜應在中心前後折疊形成一束。所有未連接到外圍設備的 I/O 電纜應在中心捆綁。如果需要，可以使用正確的終端阻抗終止電纜的末端。總長度不得超過 1 米。
4. EMI 測試接收器連接到 LISN 為待測物供電。實際測試配置請參考待測物測試照片。
5. 接收器在 150kHz 至 30MHz 範圍內掃描每種測試模式的發射。掃描兩條電源線，Line 和 Neutral，記錄至少六個最高排放。
6. 記錄上述最高排放水平的待測物和電纜配置。記錄了最差情況的測試數據。

2.9.4 測試結果

Test Voltage :	110Vac, 60Hz	Frequency Range:	0.15-30 MHz
Test Mode :	Mode 5 ; Normal Link	6dB Bandwidth :	9 kHz
Test Data :	109年11月03日	Phase :	L
Temperature :	25°C	Humidity :	65 %

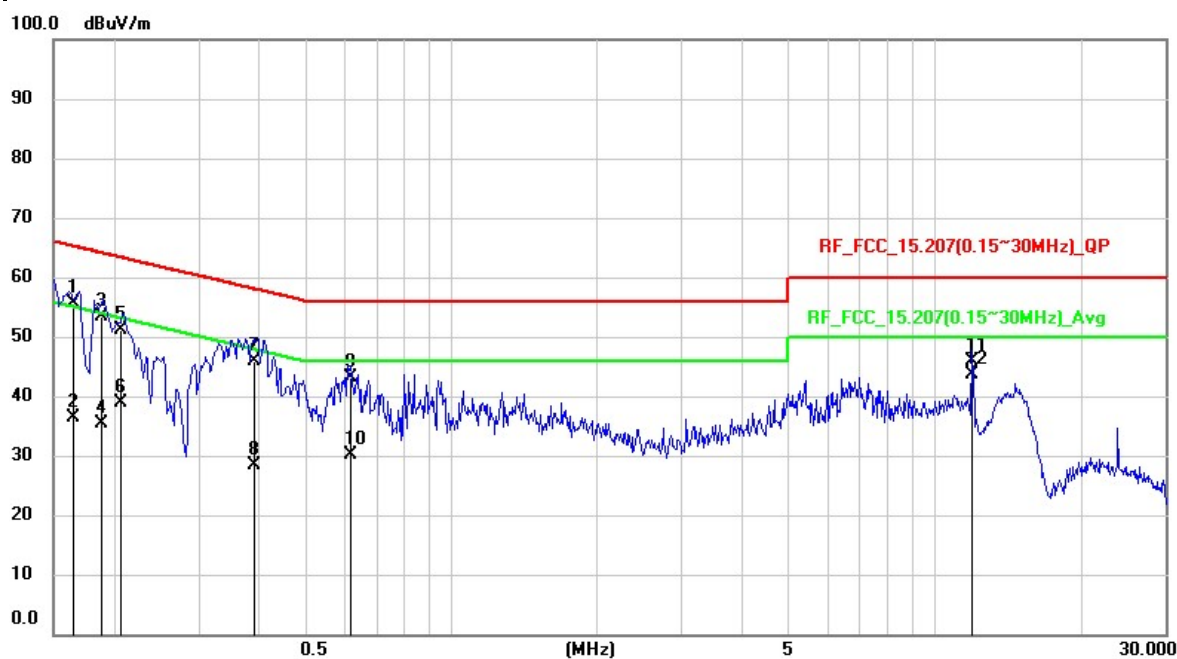


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	43.77	9.94	53.71	65.79	-12.08	QP
2	0.1539	26.13	9.94	36.07	55.79	-19.72	AVG
3	0.1655	42.47	9.94	52.41	65.18	-12.77	QP
4	0.1655	24.45	9.94	34.39	55.18	-20.79	AVG
5	0.1879	40.09	9.94	50.03	64.13	-14.1	QP
6	0.1879	23.69	9.94	33.63	54.13	-20.5	AVG
7	0.393	32.97	9.95	42.92	58	-15.08	QP
8	0.393	16.73	9.95	26.68	48	-21.32	AVG
9	0.6269	30.15	9.95	40.1	56	-15.9	QP
10	0.6269	18.98	9.95	28.93	46	-17.07	AVG
11	11.9907	35.36	10.25	45.61	60	-14.39	QP
12	11.9907	32.91	10.25	43.16	50	-6.84	AVG

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

Test Voltage :	110Vac, 60Hz	Frequency Range:	0.15-30 MHz
Test Mode :	Mode 5 ; Normal Link	6dB Bandwidth :	9 kHz
Test Data :	109年11月03日	Phase :	N
Temperature :	25°C	Humidity :	65 %



No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1655	45.72	9.97	55.69	65.18	-9.49	QP
2	0.1655	26.3	9.97	36.27	55.18	-18.91	AVG
3	0.1883	43.45	9.97	53.42	64.11	-10.69	QP
4	0.1883	25.38	9.97	35.35	54.11	-18.76	AVG
5	0.206	41.27	9.97	51.24	63.37	-12.13	QP
6	0.206	28.91	9.97	38.88	53.37	-14.49	AVG
7	0.3904	35.86	9.97	45.83	58.06	-12.23	QP
8	0.3904	18.44	9.97	28.41	48.06	-19.65	AVG
9	0.6159	33.15	9.98	43.13	56	-12.87	QP
10	0.6159	20.2	9.98	30.18	46	-15.82	AVG
11	11.9916	35.58	10.26	45.84	60	-14.16	QP
12	11.9916	33.35	10.26	43.61	50	-6.39	AVG

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

--- END ---