

附錄一

受測裝置之測試結果

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1. 場強輻射之量測

【經實驗室評估量測後，以最差之調變方式 GFSK 進行本章節之測試】

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，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：

測試機型：內建擴大器功能機型

模式	動作狀態	基本頻率	量測頻率範圍
BT (GFSK)	發射	2402MHz	1000-25000MHz
	發射	2441MHz	1000-25000MHz
	發射	2480MHz*	30-1000MHz
			1000-25000MHz
	接收	2441MHz	30-1000MHz
			1000-25000MHz

測試機型：外接擴大器功能機型

模式	動作狀態	基本頻率	量測頻率範圍
BT (GFSK)	發射	2402MHz	1000-25000MHz
	發射	2441MHz	1000-25000MHz
	發射	2480MHz*	30-1000MHz
			1000-25000MHz
	接收	2441MHz	30-1000MHz
			1000-25000MHz

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 章節的禁用頻率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 1.1。

測試機型：內建擴大器功能機型

模式	動作狀態	基本頻率	量測頻率範圍
BT (GFSK)	發射	2402MHz	2310-2430MHz
		2480MHz	2450-2900MHz
BT (8-DPSK)	發射	2402MHz	2310-2430MHz
		2480MHz	2450-2900MHz

測試機型：外接擴大器功能機型

模式	動作狀態	基本頻率	量測頻率範圍
BT (GFSK)	發射	2402MHz	2310-2430MHz
		2480MHz	2430-2900MHz
BT (8-DPSK)	發射	2402MHz	2310-2430MHz
		2480MHz	2430-2900MHz

測試日期	2020/04/21~29	環境溫/濕度	22~23℃/46~62%
測試電壓	DC 12V (經直流電源供應器電)	測試人員	Sam Chang

1.1. 30-1000MHz 頻率範圍，其他不必要發射量測

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	內建擴大器功能機型		

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
189.080	15.10	3.43	25.91	39.31	31.93	43.50	11.57	Peak
258.920	18.81	4.11	25.76	41.86	39.02	46.00	6.98	Peak
480.080	23.20	6.75	27.10	34.72	37.57	46.00	8.43	Peak
597.450	24.77	7.03	27.48	31.48	35.80	46.00	10.20	Peak
776.900	25.86	8.01	27.43	30.03	36.47	46.00	9.53	Peak
916.580	26.92	8.79	27.09	29.37	37.99	46.00	8.01	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
50.370	14.52	1.65	26.50	48.20	37.87	40.00	2.13	Peak
76.560	12.92	2.12	26.39	39.40	28.05	40.00	11.95	Peak
256.010	18.77	4.08	25.77	33.33	30.41	46.00	15.59	Peak
480.080	23.20	6.75	27.10	33.22	36.07	46.00	9.93	Peak
597.450	24.77	7.03	27.48	32.92	37.24	46.00	8.76	Peak
974.780	27.26	9.05	26.90	28.35	37.76	54.00	16.24	Peak

Mode	BT	Frequency	RX 2441MHz
測試機型	內建擴大器功能機型		

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
190.050	15.11	3.44	25.90	38.75	31.40	43.50	12.10	Peak
254.070	18.74	4.06	25.77	43.20	40.23	46.00	5.77	Peak
480.080	23.20	6.75	27.10	34.10	36.95	46.00	9.05	Peak
597.450	24.77	7.03	27.48	30.35	34.67	46.00	11.33	Peak
759.440	25.69	7.92	27.45	29.96	36.12	46.00	9.88	Peak
972.840	27.25	9.04	26.92	29.14	38.51	54.00	15.49	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
50.370	14.52	1.65	26.50	47.84	37.51	40.00	2.49	Peak
75.590	12.87	2.11	26.39	39.84	28.43	40.00	11.57	Peak
256.980	18.79	4.09	25.76	33.77	30.89	46.00	15.11	Peak
480.080	23.20	6.75	27.10	33.10	35.95	46.00	10.05	Peak
597.450	24.77	7.03	27.48	33.52	37.84	46.00	8.16	Peak
944.710	27.09	8.92	27.01	29.14	38.14	46.00	7.86	Peak

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	外接擴大器功能機型		

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
190.050	15.11	3.44	25.90	40.44	33.09	43.50	10.41	Peak
246.310	18.44	3.98	25.78	47.47	44.11	46.00	1.89	Peak
431.580	22.39	6.31	26.78	32.46	34.38	46.00	11.62	Peak
597.450	24.77	7.03	27.48	30.20	34.52	46.00	11.48	Peak
822.490	26.27	8.26	27.34	29.43	36.62	46.00	9.38	Peak
937.920	27.05	8.89	27.01	28.68	37.61	46.00	8.39	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
49.400	14.82	1.64	26.50	44.65	34.61	40.00	5.39	Peak
94.990	15.74	2.37	26.33	35.78	27.56	43.50	15.94	Peak
248.250	18.59	4.00	25.78	37.01	33.82	46.00	12.18	Peak
432.550	22.42	6.32	26.78	31.12	33.08	46.00	12.92	Peak
600.360	24.80	7.03	27.48	30.90	35.25	46.00	10.75	Peak
930.160	26.99	8.85	27.04	31.32	40.12	46.00	5.88	Peak

Mode	BT	Frequency	RX 2441MHz
測試機型	外接擴大器功能機型		

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
120.210	18.71	2.68	26.20	30.94	26.13	43.50	17.37	Peak
195.870	15.24	3.51	25.88	39.80	32.67	43.50	10.83	Peak
248.250	18.59	4.00	25.78	46.83	43.64	46.00	2.36	Peak
431.580	22.39	6.31	26.78	31.71	33.63	46.00	12.37	Peak
676.020	24.94	7.48	27.50	30.04	34.96	46.00	11.04	Peak
945.680	27.09	8.92	27.01	28.64	37.64	46.00	8.36	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
49.400	14.82	1.64	26.50	45.58	35.54	40.00	4.46	Peak
76.560	12.92	2.12	26.39	39.69	28.34	40.00	11.66	Peak
250.190	18.70	4.02	25.78	37.61	34.55	46.00	11.45	Peak
431.580	22.39	6.31	26.78	31.42	33.34	46.00	12.66	Peak
597.450	24.77	7.03	27.48	31.26	35.58	46.00	10.42	Peak
940.830	27.07	8.90	27.01	29.88	38.84	46.00	7.16	Peak

1.2. 1000MHz 以上頻率範圍，其他不必要發射量測

頻率範圍量測至主波發射的 10 倍諧波，其他未列在報告上乃因訊號太小無法量測。

Mode	BT (GFSK)	Frequency	TX 2402MHz
測試機型	內建擴大器功能機型		

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
4804.000	33.90	10.22	34.47	32.64	42.29	54.00	11.71	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
4804.000	33.90	10.22	34.47	31.10	40.75	54.00	13.25	Peak

Mode	BT (GFSK)	Frequency	TX 2441MHz
測試機型	內建擴大器功能機型		

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
4882.000	34.37	10.24	34.45	30.88	41.04	54.00	12.96	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
4882.000	34.37	10.24	34.45	30.12	40.28	54.00	13.72	Peak

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	內建擴大器功能機型		

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
4960.000	34.27	10.27	34.44	30.89	40.99	54.00	13.01	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
4960.000	34.27	10.27	34.44	29.15	39.25	54.00	14.75	Peak

Mode	BT	Frequency	RX 2441MHz
測試機型	內建擴大器功能機型		

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
4882.000	34.37	10.24	34.45	30.38	40.54	54.00	13.46	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
4882.000	34.37	10.24	34.45	30.51	40.67	54.00	13.33	Peak

Mode	BT (GFSK)	Frequency	TX 2402MHz
測試機型	外接擴大器功能機型		

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
4804.000	33.90	10.22	34.47	32.22	41.87	54.00	12.13	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
4804.000	33.90	10.22	34.47	31.37	41.02	54.00	12.98	Peak

Mode	BT (GFSK)	Frequency	TX 2441MHz
測試機型	外接擴大器功能機型		

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
4882.000	34.37	10.24	34.45	30.65	40.81	54.00	13.19	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
4882.000	34.37	10.24	34.45	30.60	40.76	54.00	13.24	Peak

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	外接擴大器功能機型		

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
4960.000	34.27	10.27	34.44	29.80	39.90	54.00	14.10	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
4960.000	34.27	10.27	34.44	30.02	40.12	54.00	13.88	Peak

Mode	BT	Frequency	RX 2441MHz
測試機型	外接擴大器功能機型		

Antenna at Horizontal Polarization

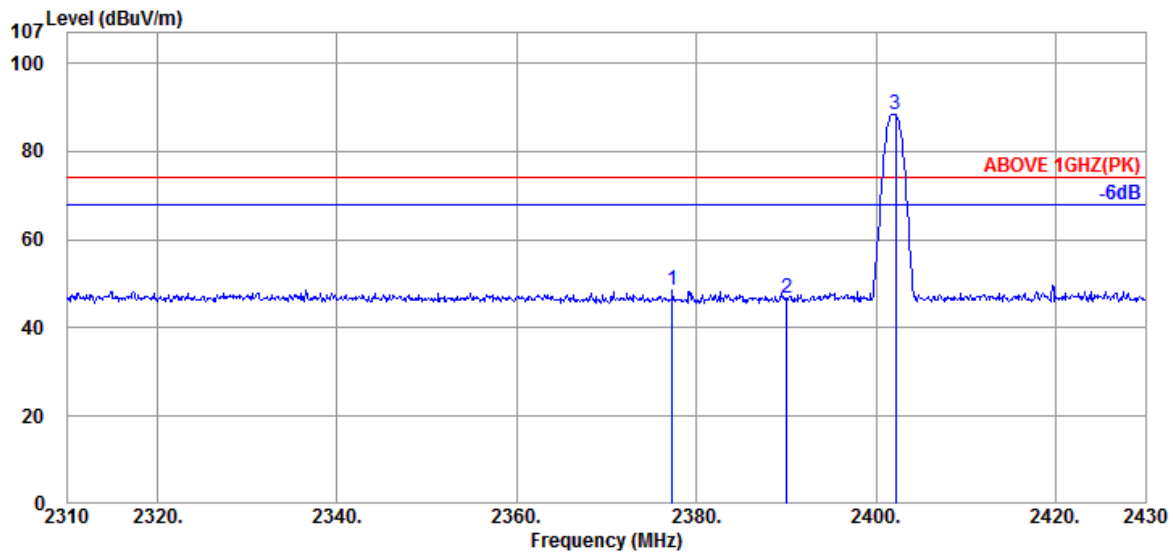
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	34.37	10.24	34.45	30.97	41.13	54.00	12.87	Peak

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
4882.000	34.37	10.24	34.45	30.05	40.21	54.00	13.79	Peak

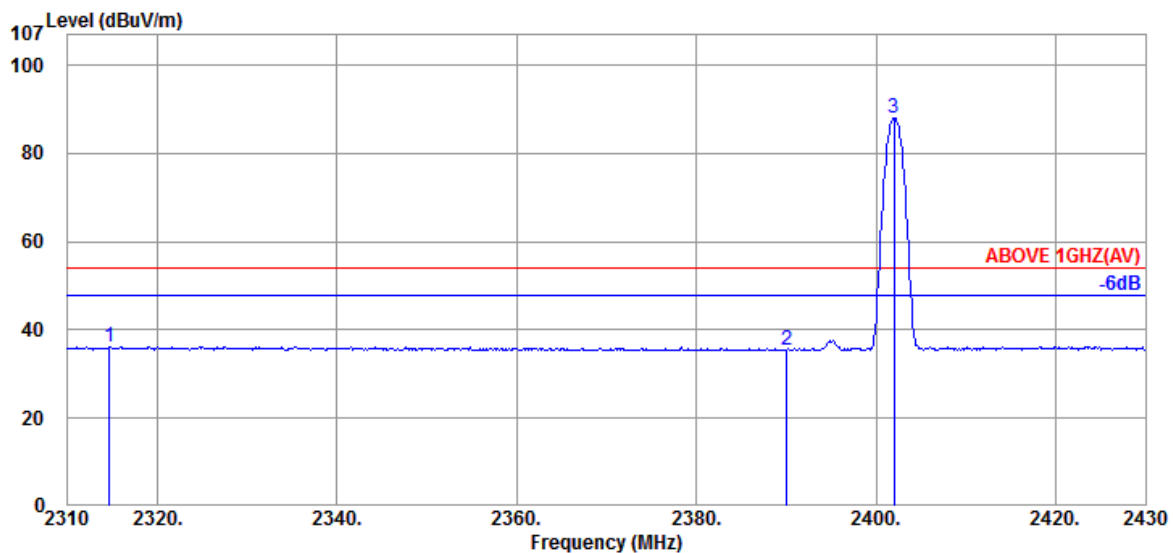
1.3. 禁用頻帶量測結果 (其他不必要發射)

Mode	BT (GFSK)	Frequency	TX 2402MHz
測試機型	內建擴大器功能機型		



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
2377.320	32.00	8.51	34.58	42.67	48.60	74.00	25.40	Peak
2390.040	32.00	8.52	34.58	40.81	46.75	74.00	27.25	Peak
@ 2402.160	32.00	8.52	34.59	82.40	88.33	---	---	Peak

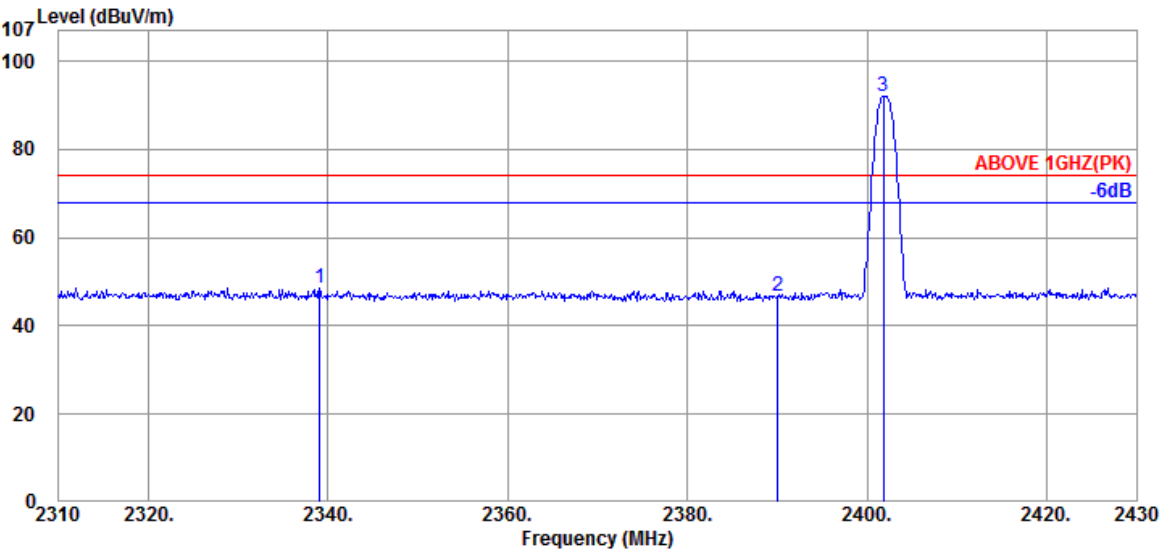


Antenna at Horizontal Polarization

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
2314.680	32.00	8.46	34.56	30.34	36.24	54.00	17.76	Average
2390.040	32.00	8.52	34.58	29.51	35.45	54.00	18.55	Average
@ 2402.040	32.00	8.52	34.59	82.22	88.15	---	---	Average

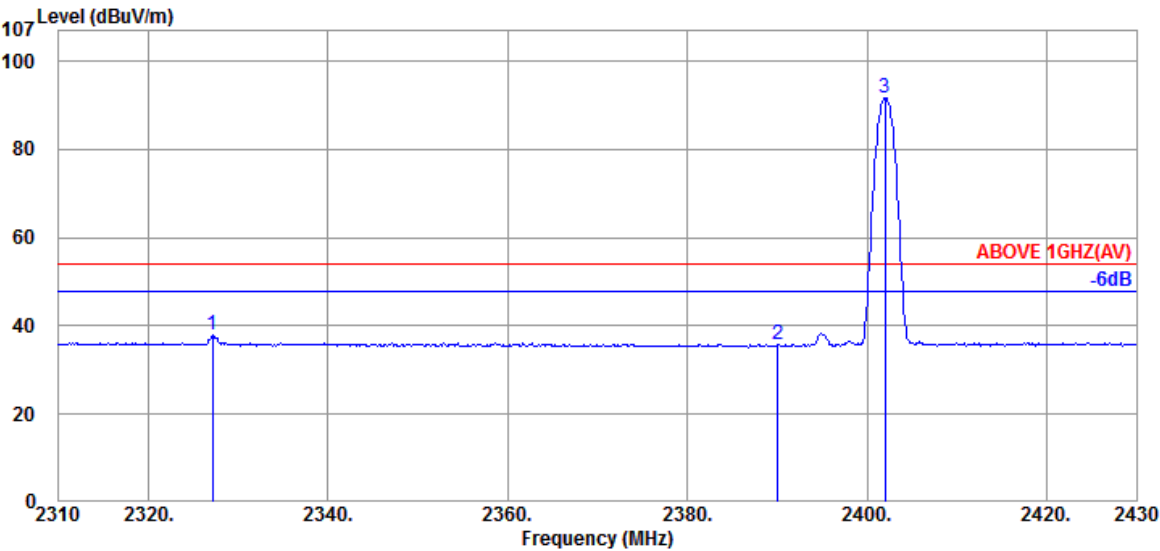
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (GFSK)	Frequency	TX 2402MHz
測試機型	內建擴大器功能機型		



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
2339.040	32.00	8.48	34.57	42.61	48.52	74.00	25.48	Peak
2390.040	32.00	8.52	34.58	40.95	46.89	74.00	27.11	Peak
@ 2401.800	32.00	8.52	34.59	86.08	92.01	---	---	Peak

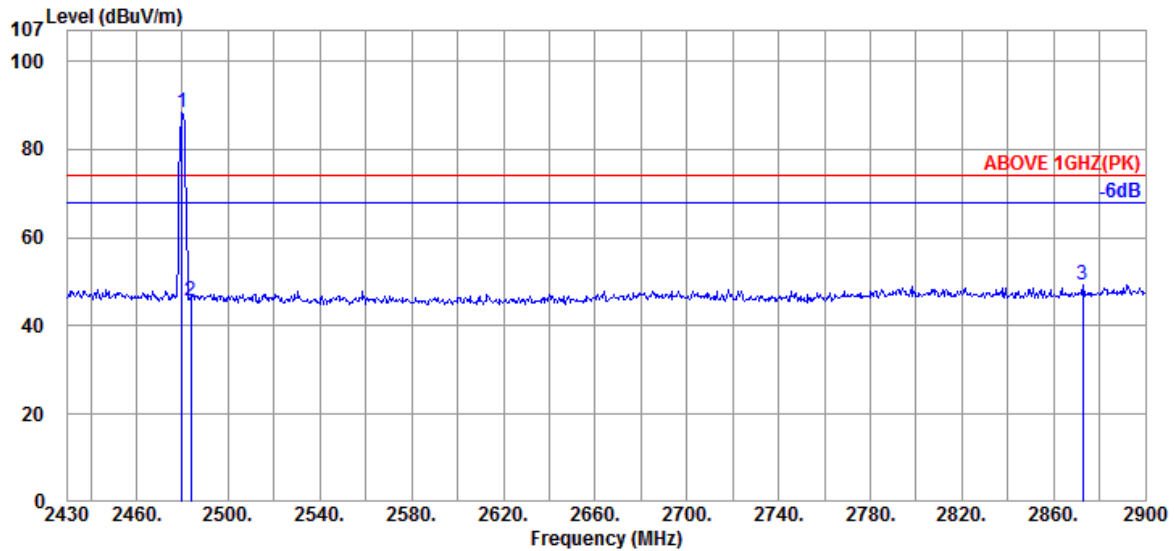


Antenna at Vertical Polarization

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
2327.160	32.00	8.47	34.57	32.06	37.96	54.00	16.04	Average
2390.040	32.00	8.52	34.58	29.75	35.69	54.00	18.31	Average
@ 2402.040	32.00	8.52	34.59	85.81	91.74	---	---	Average

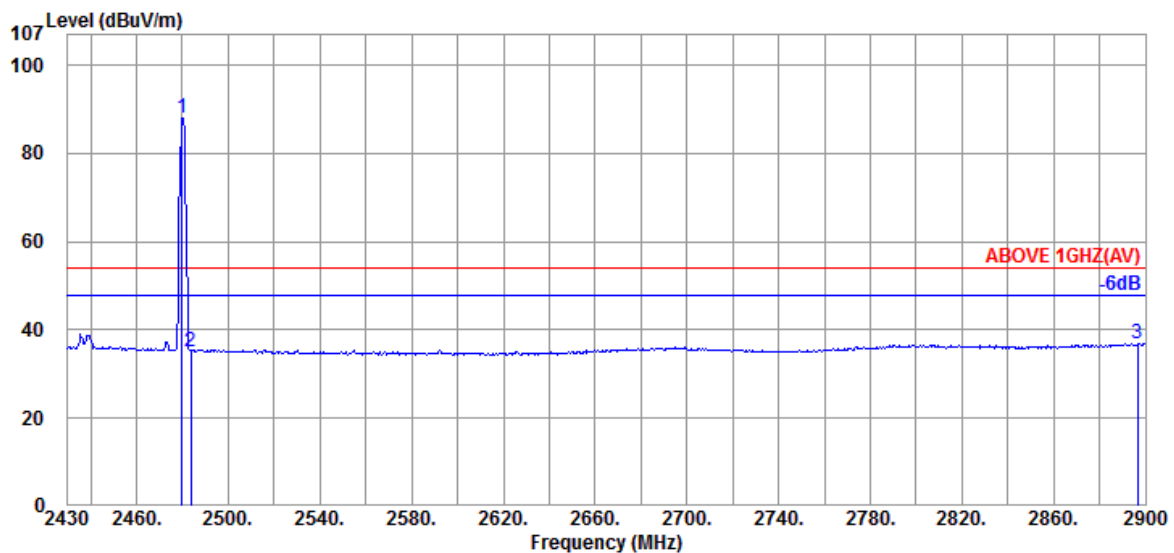
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	內建擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	81.66	88.21	---	---	Peak
	2483.580	32.57	8.58	34.61	38.98	45.52	74.00	28.48	Peak
	2872.740	32.80	8.68	34.68	42.49	49.29	74.00	24.71	Peak

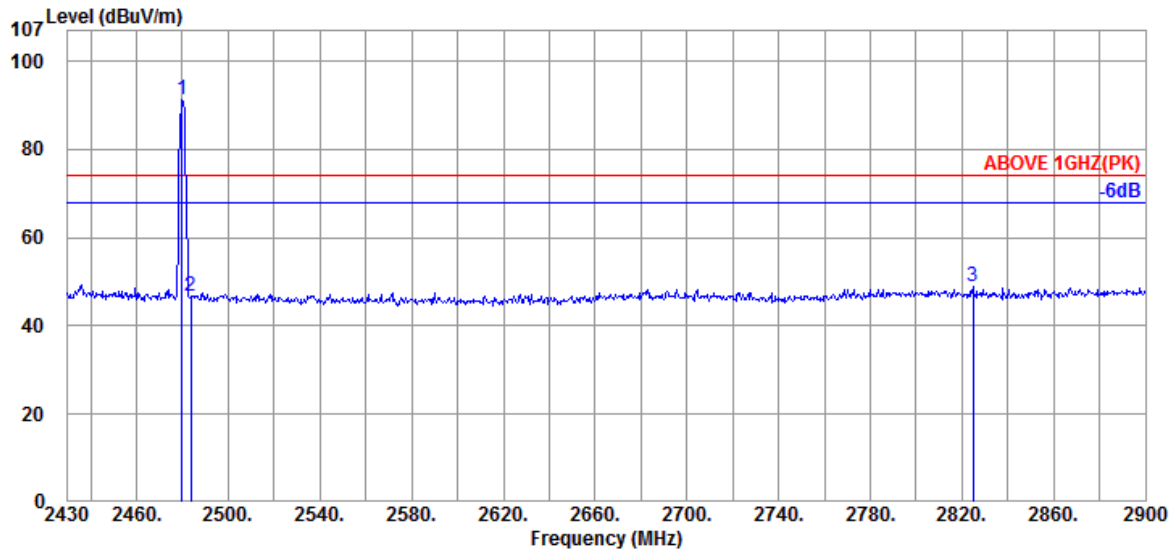


Antenna at Horizontal Polarization

	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
@	2479.820	32.57	8.58	34.60	81.39	87.94	---	---	Average
	2483.580	32.57	8.58	34.61	28.66	35.20	54.00	18.80	Average
	2896.710	33.00	8.69	34.68	29.90	36.91	54.00	17.09	Average

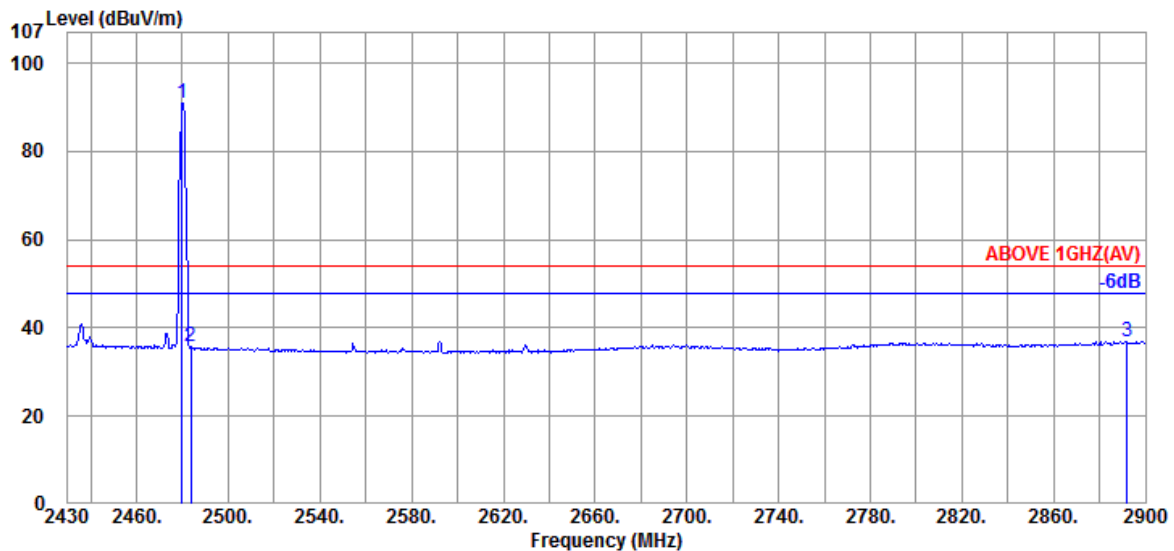
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	內建擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	84.57	91.12	---	---	Peak
	2483.580	32.57	8.58	34.61	40.03	46.57	74.00	27.43	Peak
	2824.800	32.83	8.67	34.67	42.19	49.02	74.00	24.98	Peak

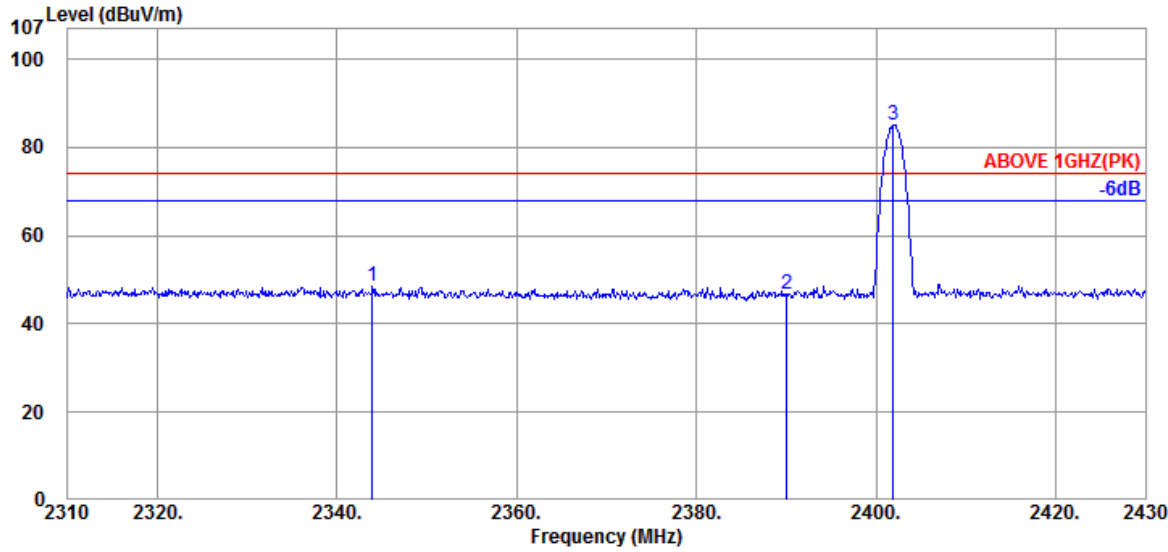


Antenna at Vertical Polarization

	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
@	2479.820	32.57	8.58	34.60	84.30	90.85	---	---	Average
	2483.580	32.57	8.58	34.61	29.35	35.89	54.00	18.11	Average
	2892.010	32.90	8.68	34.68	30.16	37.06	54.00	16.94	Average

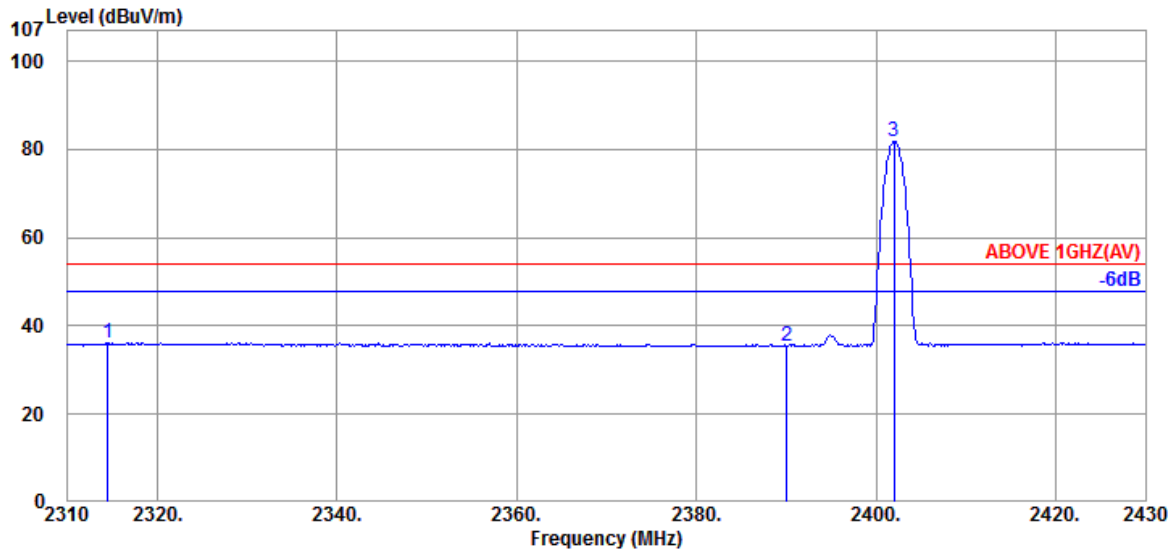
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2402MHz
測試機型	內建擴大器功能機型		



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
2343.960	32.00	8.48	34.57	42.57	48.48	74.00	25.52	Peak
2390.040	32.00	8.52	34.58	40.89	46.83	74.00	27.17	Peak
@ 2401.920	32.00	8.52	34.59	79.14	85.07	---	---	Peak

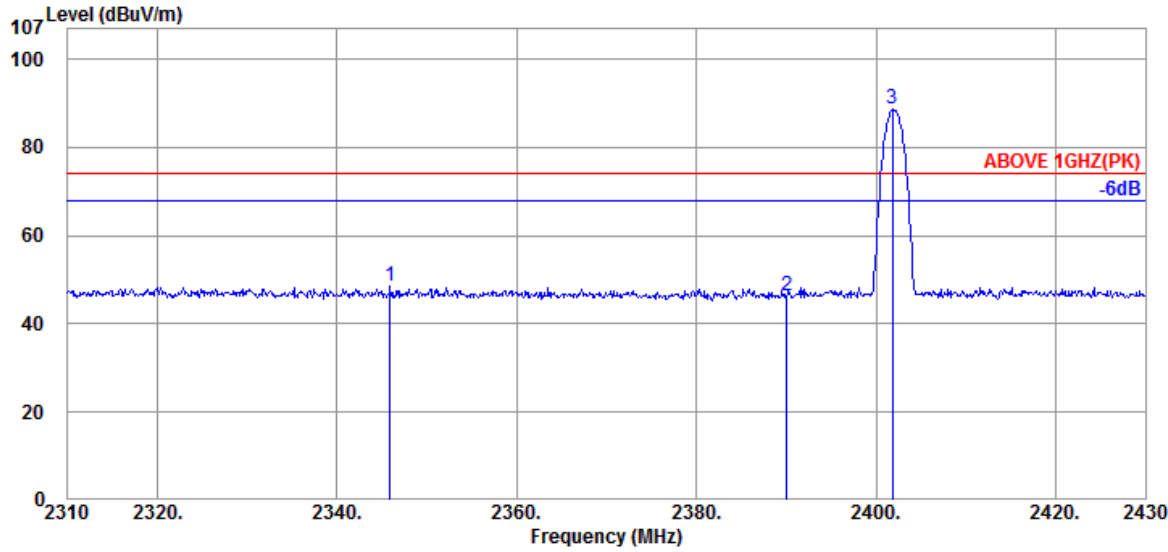


Antenna at Horizontal Polarization

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
2314.440	32.00	8.46	34.56	30.29	36.19	54.00	17.81	Average
2390.040	32.00	8.52	34.58	29.55	35.49	54.00	18.51	Average
@ 2402.040	32.00	8.52	34.59	75.82	81.75	---	---	Average

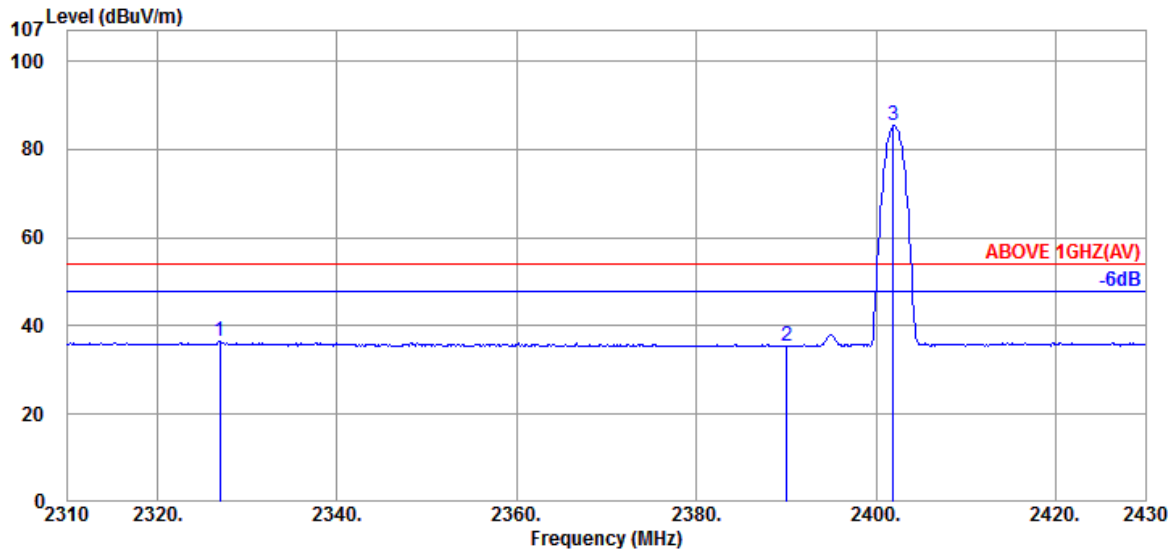
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2402MHz
測試機型	內建擴大器功能機型		



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
2345.880	32.00	8.48	34.57	42.60	48.51	74.00	25.49	Peak
2390.040	32.00	8.52	34.58	40.29	46.23	74.00	27.77	Peak
@ 2401.800	32.00	8.52	34.59	82.67	88.60	---	---	Peak

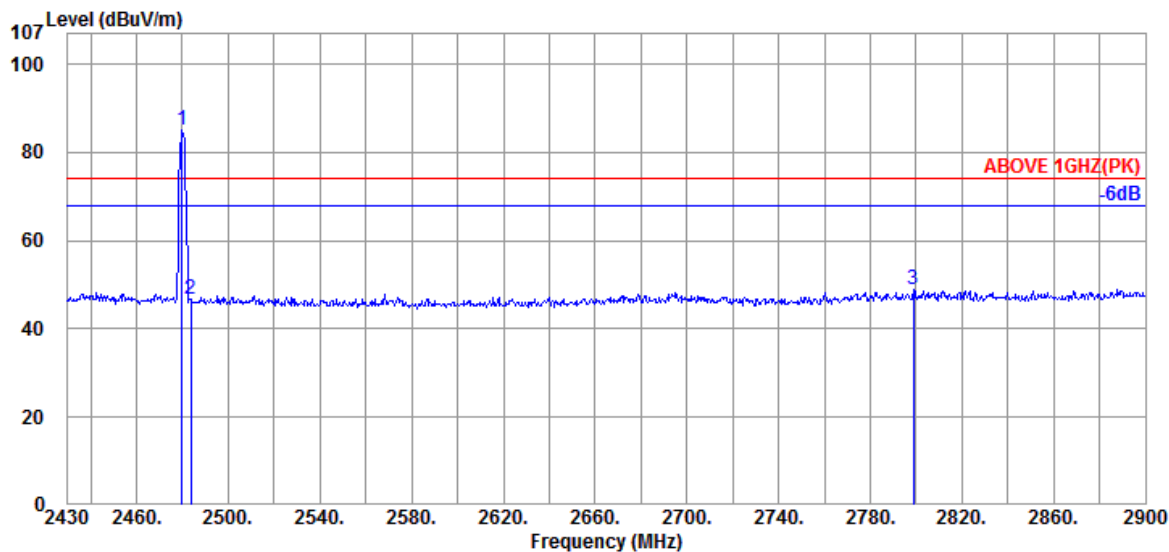


Antenna at Vertical Polarization

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
2326.920	32.00	8.47	34.57	30.61	36.51	54.00	17.49	Average
2390.040	32.00	8.52	34.58	29.44	35.38	54.00	18.62	Average
@ 2401.920	32.00	8.52	34.59	79.36	85.29	---	---	Average

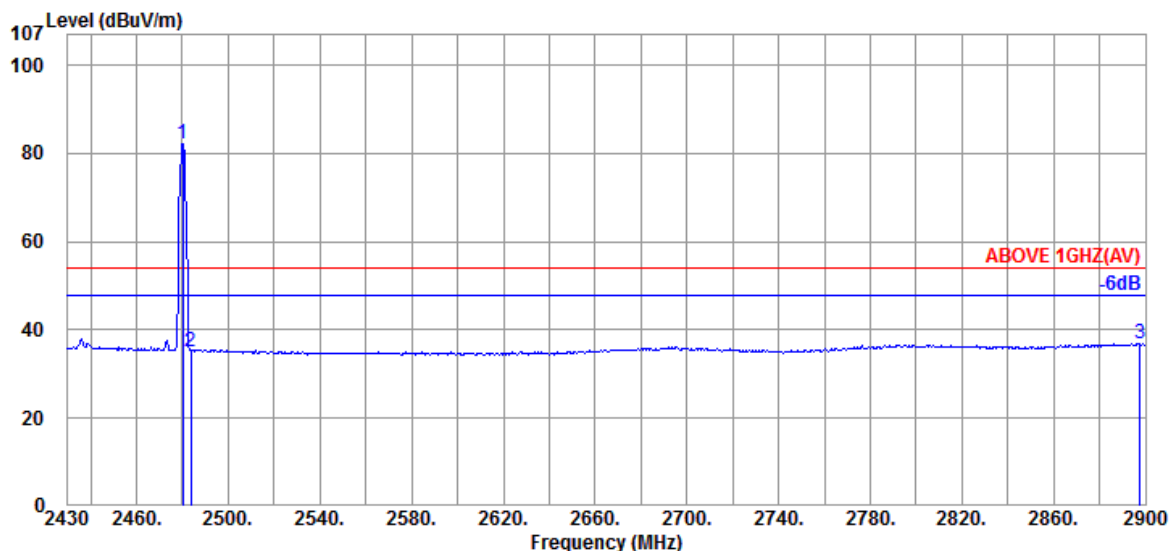
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2480MHz
測試機型	內建擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	78.38	84.93	---	---	Peak
	2483.580	32.57	8.58	34.61	40.35	46.89	74.00	27.11	Peak
	2798.950	32.90	8.66	34.67	42.22	49.11	74.00	24.89	Peak

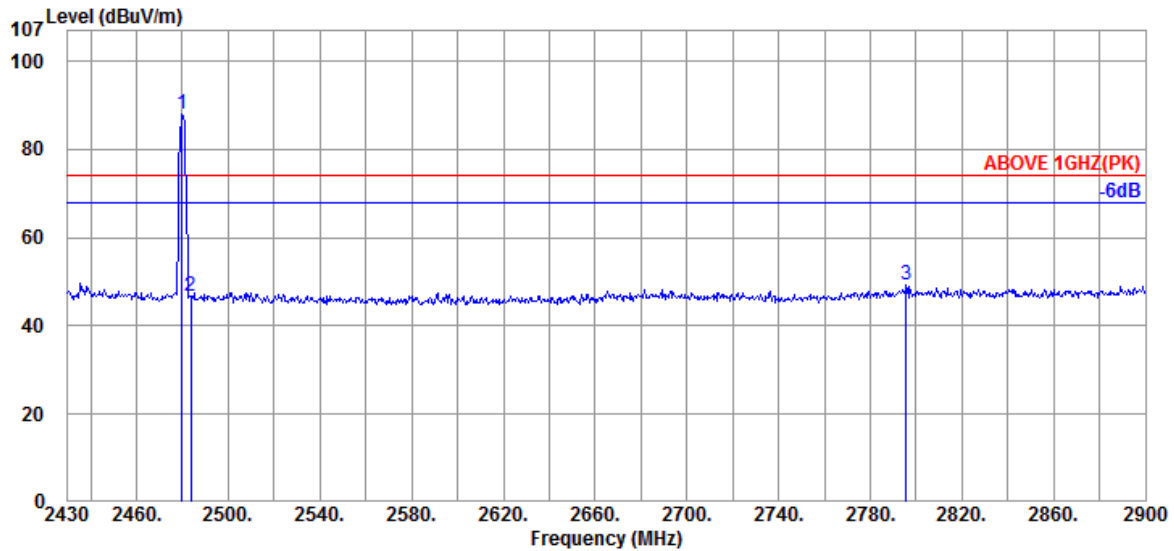


Antenna at Horizontal Polarization

	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
@	2480.290	32.57	8.58	34.60	75.60	82.15	---	---	Average
	2483.580	32.57	8.58	34.61	28.65	35.19	54.00	18.81	Average
	2897.650	33.00	8.69	34.68	29.98	36.99	54.00	17.01	Average

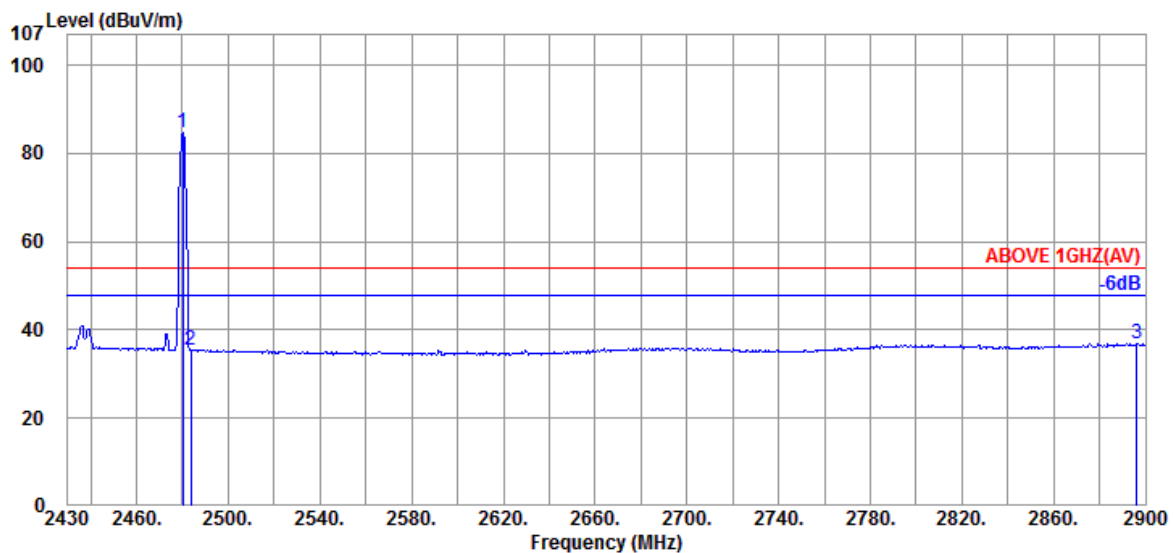
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2480MHz
測試機型	內建擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	81.48	88.03	---	---	Peak
	2483.580	32.57	8.58	34.61	40.06	46.60	74.00	27.40	Peak
	2795.660	32.90	8.66	34.67	42.27	49.16	74.00	24.84	Peak

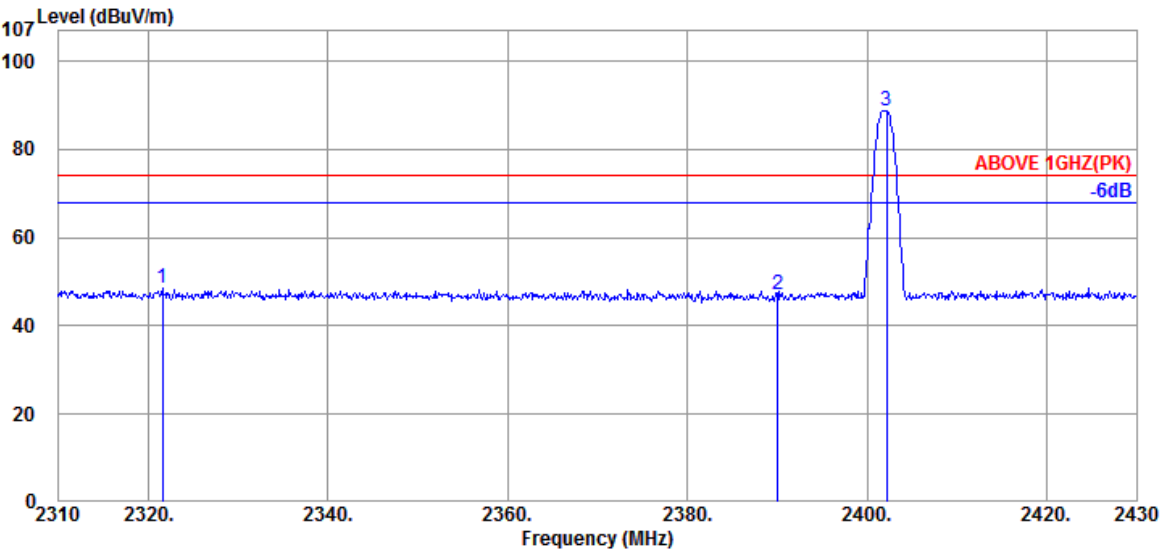


Antenna at Vertical Polarization

	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
@	2480.290	32.57	8.58	34.60	78.00	84.55	---	---	Average
	2483.580	32.57	8.58	34.61	28.75	35.29	54.00	18.71	Average
	2896.240	33.00	8.69	34.68	29.96	36.97	54.00	17.03	Average

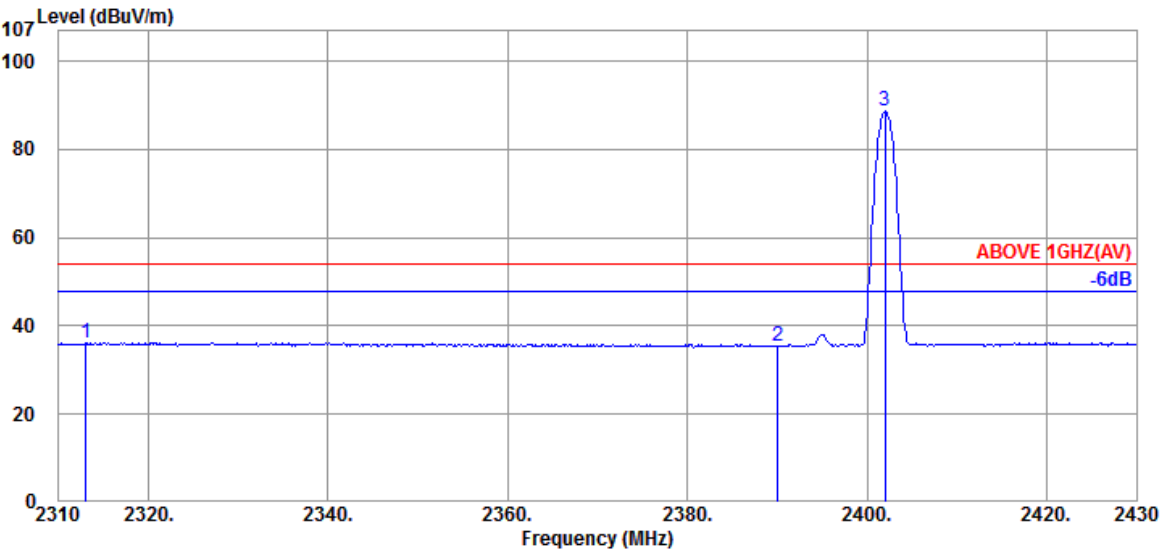
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (GFSK)	Frequency	TX 2402MHz
測試機型	外接擴大器功能機型		



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBMV)	Emission Level (dBMV/m)	Limits (dBMV/m)	Margin (dB)	Detector
2321.520	32.00	8.47	34.57	42.82	48.72	74.00	25.28	Peak
2390.040	32.00	8.52	34.58	41.22	47.16	74.00	26.84	Peak
@ 2402.160	32.00	8.52	34.59	82.92	88.85	---	---	Peak

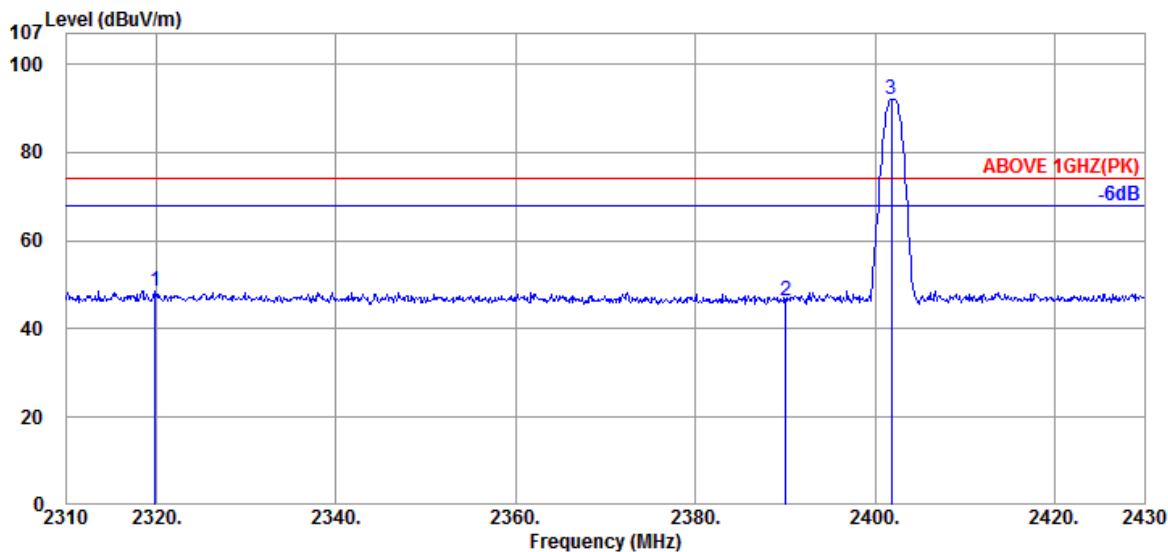


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBMV)	Emission Level (dBMV/m)	Limits (dBMV/m)	Margin (dB)	Detector
2313.000	32.00	8.46	34.56	30.30	36.20	54.00	17.80	Average
2390.040	32.00	8.52	34.58	29.60	35.54	54.00	18.46	Average
@ 2402.040	32.00	8.52	34.59	82.68	88.61	---	---	Average

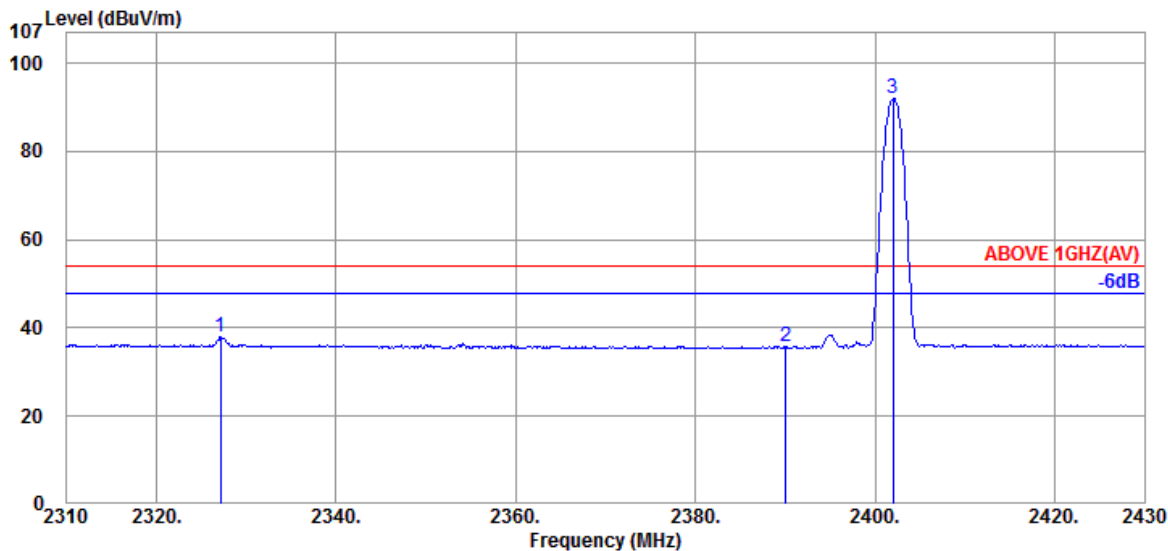
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (GFSK)	Frequency	TX 2402MHz
測試機型	外接擴大器功能機型		



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
2319.840	32.00	8.47	34.57	42.79	48.69	74.00	25.31	Peak
2390.040	32.00	8.52	34.58	40.35	46.29	74.00	27.71	Peak
@ 2401.800	32.00	8.52	34.59	86.27	92.20	---	---	Peak

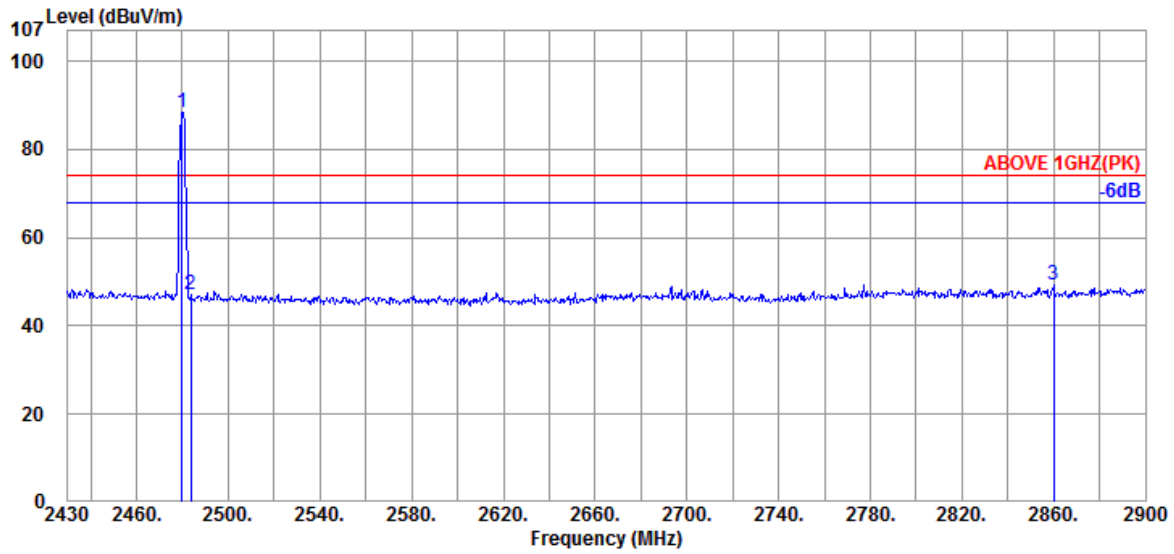


Antenna at Vertical Polarization

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
2327.160	32.00	8.47	34.57	32.02	37.92	54.00	16.08	Average
2390.040	32.00	8.52	34.58	29.83	35.77	54.00	18.23	Average
@ 2402.040	32.00	8.52	34.59	85.97	91.90	---	---	Average

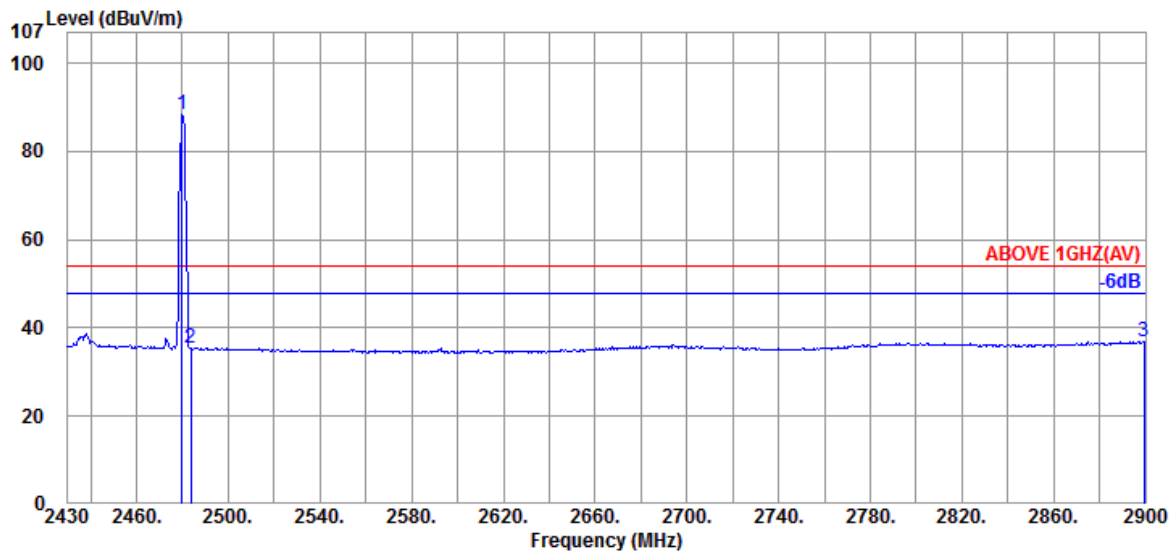
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	外接擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	81.98	88.53	---	---	Peak
	2483.580	32.57	8.58	34.61	40.69	47.23	74.00	26.77	Peak
	2860.050	32.70	8.67	34.68	42.70	49.39	74.00	24.61	Peak

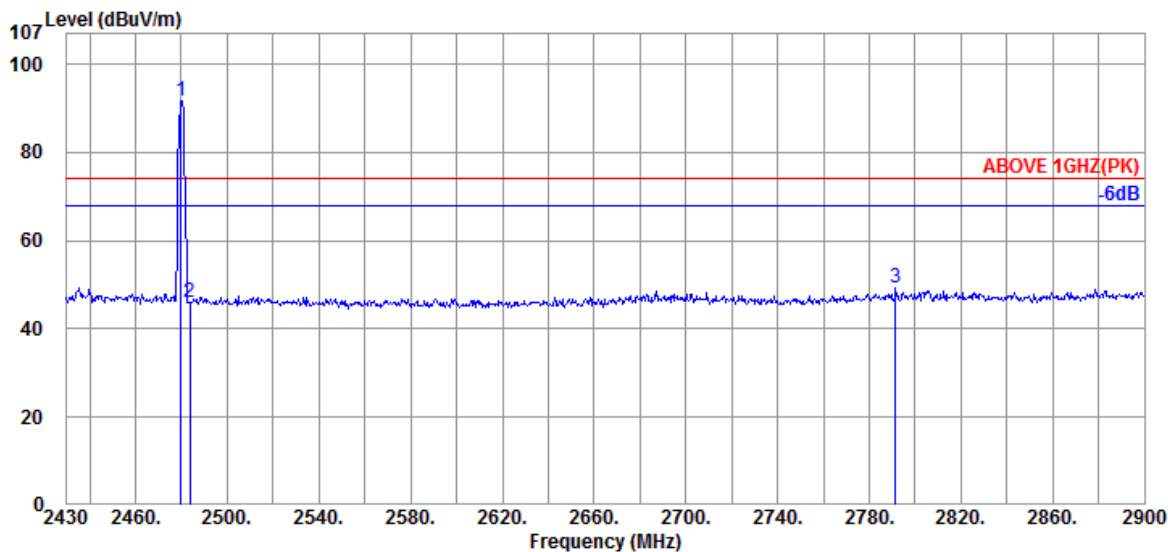


Antenna at Horizontal Polarization

	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
@	2479.820	32.57	8.58	34.60	81.65	88.20	---	---	Average
	2483.580	32.57	8.58	34.61	28.74	35.28	54.00	18.72	Average
	2899.530	33.00	8.69	34.68	29.87	36.88	54.00	17.12	Average

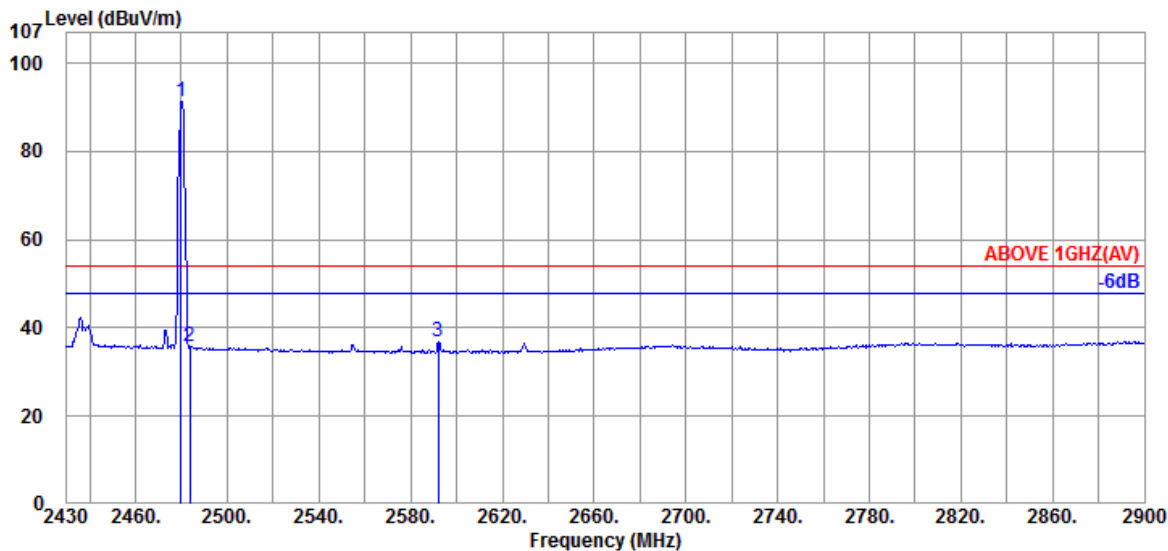
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (GFSK)	Frequency	TX 2480MHz
測試機型	外接擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	84.99	91.54	---	---	Peak
	2483.580	32.57	8.58	34.61	39.40	45.94	74.00	28.06	Peak
	2791.430	32.67	8.66	34.66	42.63	49.30	74.00	24.70	Peak

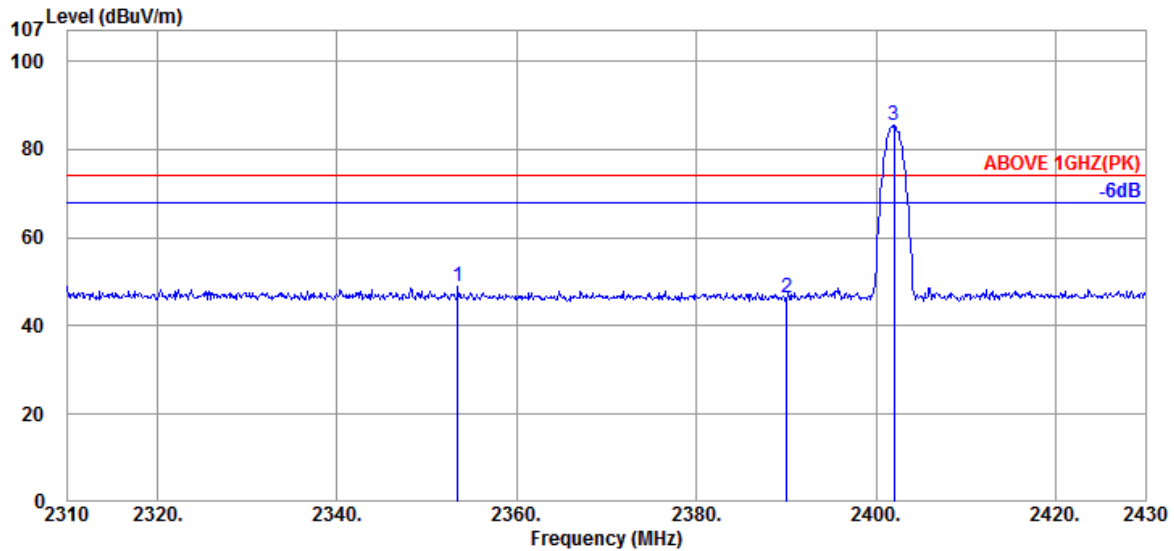


Antenna at Vertical Polarization

	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
@	2479.820	32.57	8.58	34.60	84.71	91.26	---	---	Average
	2483.580	32.57	8.58	34.61	29.24	35.78	54.00	18.22	Average
	2592.150	32.10	8.61	34.63	30.77	36.85	54.00	17.15	Average

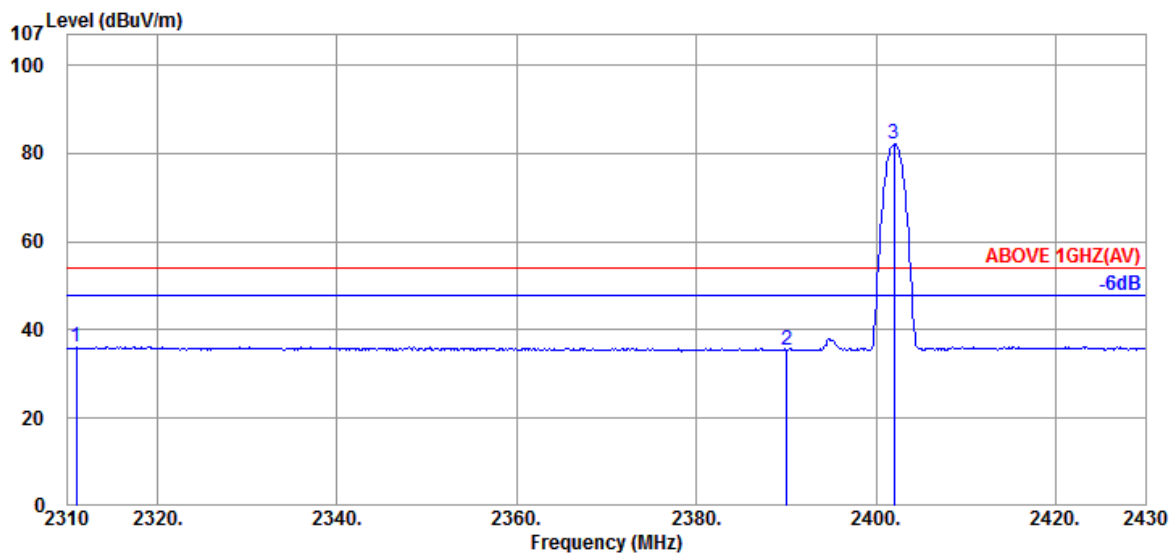
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2402MHz
測試機型	外接擴大器功能機型		



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
2353.440	32.00	8.49	34.57	43.00	48.92	74.00	25.08	Peak
2390.040	32.00	8.52	34.58	40.55	46.49	74.00	27.51	Peak
@ 2402.040	32.00	8.52	34.59	79.43	85.36	---	---	Peak

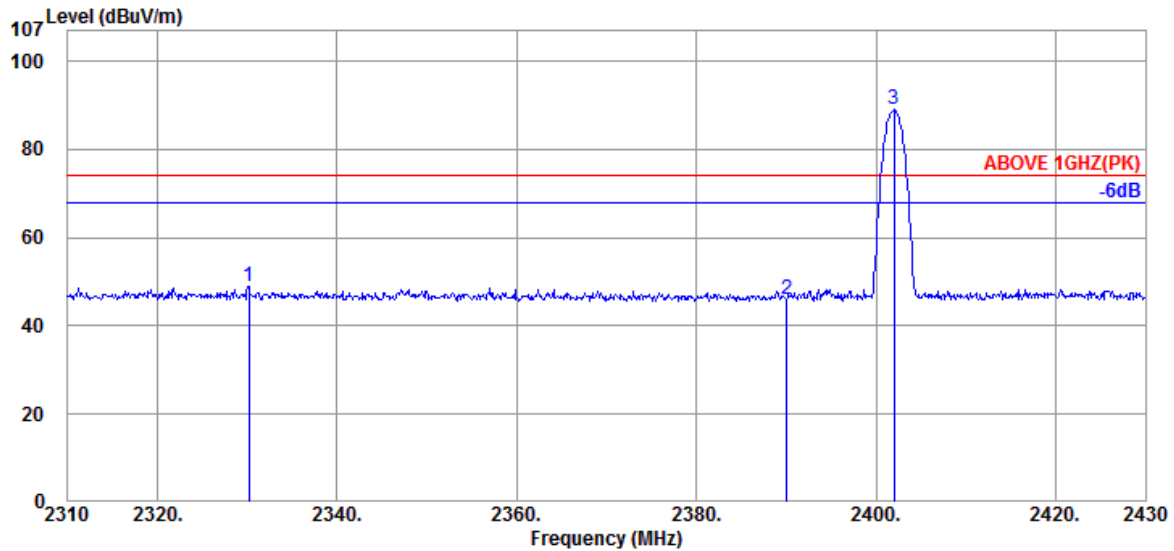


Antenna at Horizontal Polarization

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
2310.960	32.00	8.46	34.56	30.33	36.23	54.00	17.77	Average
2390.040	32.00	8.52	34.58	29.48	35.42	54.00	18.58	Average
@ 2402.040	32.00	8.52	34.59	76.09	82.02	---	---	Average

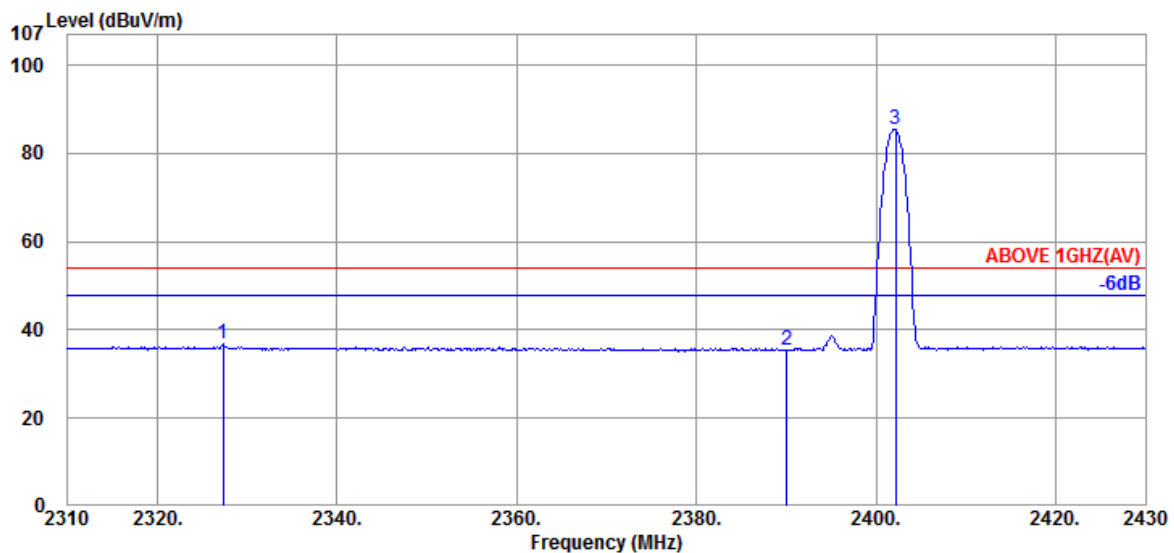
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2402MHz
測試機型	外接擴大器功能機型		



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
2330.160	32.00	8.47	34.57	43.05	48.95	74.00	25.05	Peak
2390.040	32.00	8.52	34.58	40.24	46.18	74.00	27.82	Peak
@ 2402.040	32.00	8.52	34.59	83.08	89.01	---	---	Peak

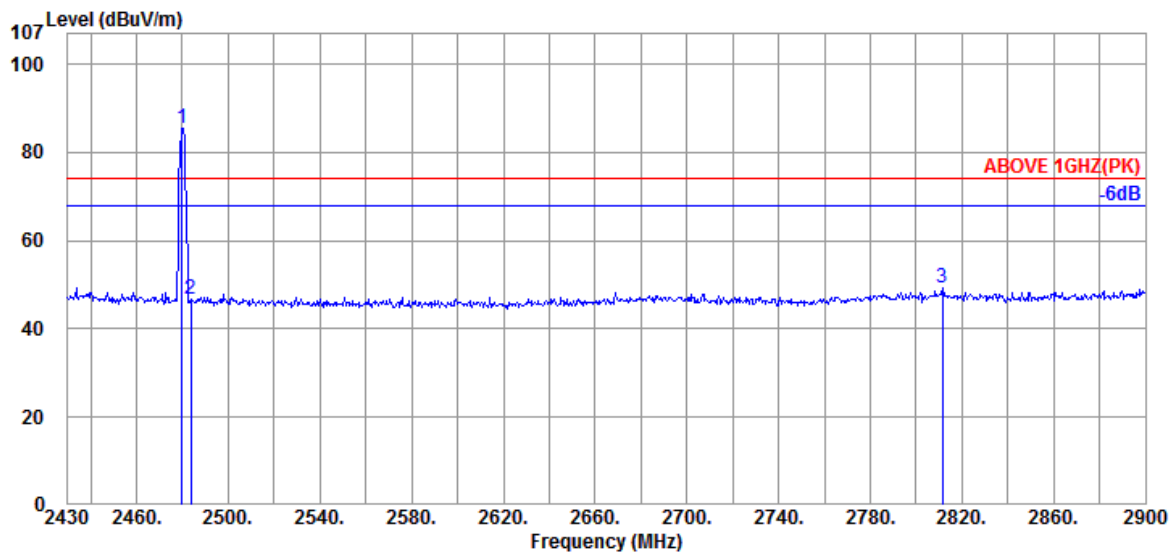


Antenna at Vertical Polarization

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
2327.280	32.00	8.47	34.57	30.97	36.87	54.00	17.13	Average
2390.040	32.00	8.52	34.58	29.44	35.38	54.00	18.62	Average
@ 2402.160	32.00	8.52	34.59	79.46	85.39	---	---	Average

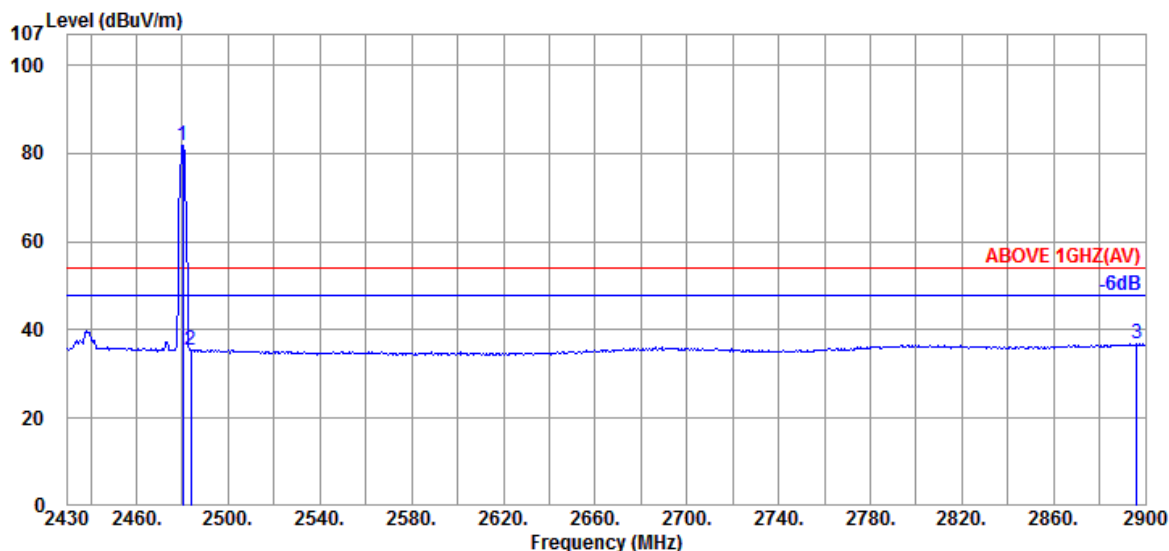
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2480MHz
測試機型	外接擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	78.99	85.54	---	---	Peak
	2483.580	32.57	8.58	34.61	40.07	46.61	74.00	27.39	Peak
	2811.640	32.83	8.67	34.67	42.39	49.22	74.00	24.78	Peak

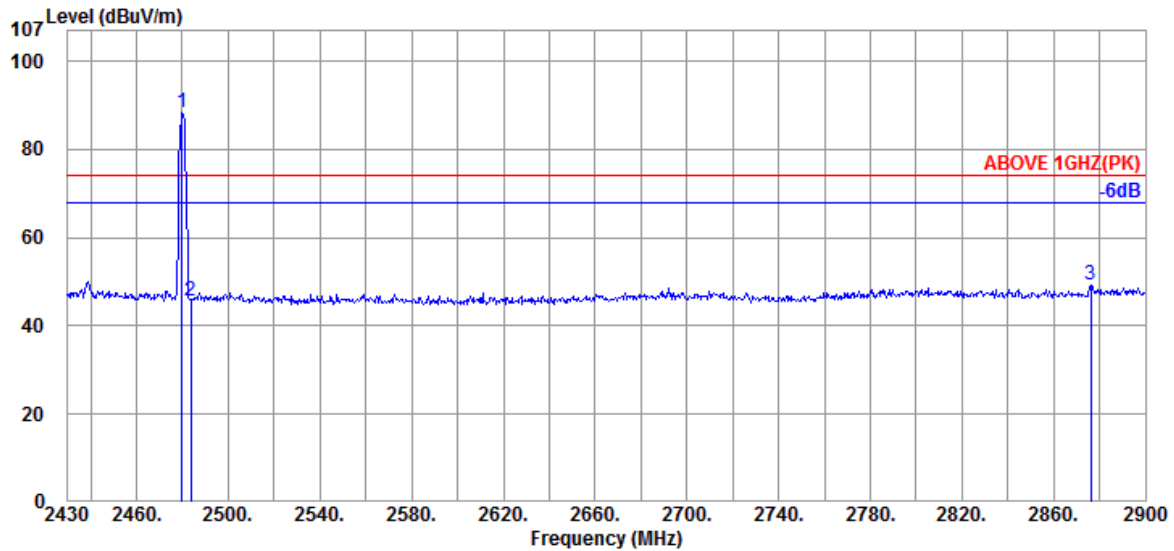


Antenna at Horizontal Polarization

	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
@	2480.290	32.57	8.58	34.60	75.28	81.83	---	---	Average
	2483.580	32.57	8.58	34.61	28.86	35.40	54.00	18.60	Average
	2896.240	33.00	8.69	34.68	29.82	36.83	54.00	17.17	Average

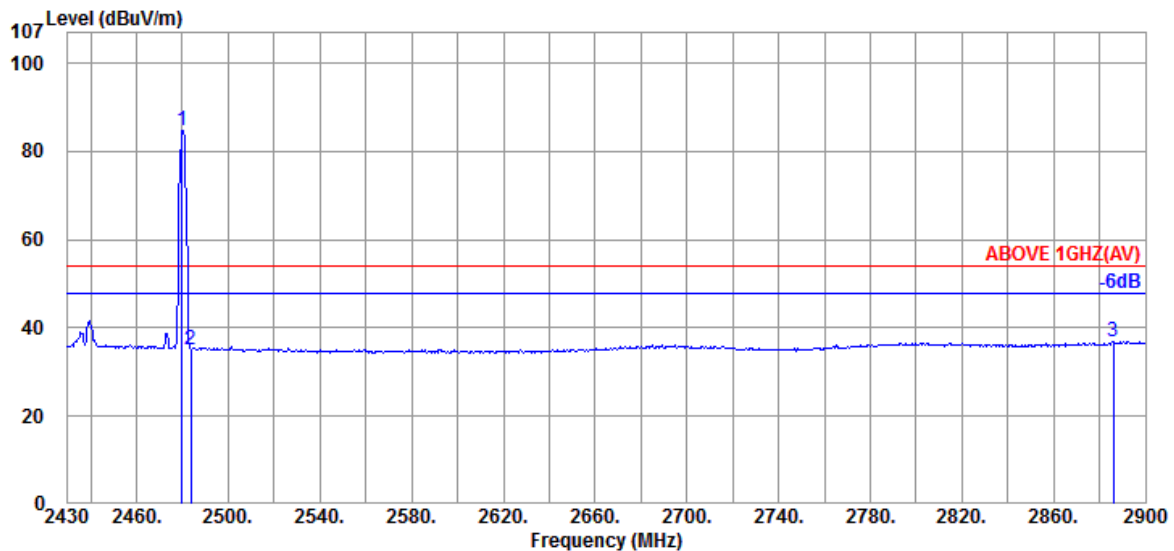
備註：“@”為主波，在此章節是不予以判定。

Mode	BT (8-DPSK)	Frequency	TX 2480MHz
測試機型	外接擴大器功能機型		



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
@	2479.820	32.57	8.58	34.60	81.85	88.40	---	---	Peak
	2483.580	32.57	8.58	34.61	39.28	45.82	74.00	28.18	Peak
	2876.030	32.80	8.68	34.68	42.54	49.34	74.00	24.66	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
@	2479.820	32.57	8.58	34.60	78.18	84.73	---	---	Average
	2483.580	32.57	8.58	34.61	28.68	35.22	54.00	18.78	Average
	2885.900	32.90	8.68	34.68	30.05	36.95	54.00	17.05	Average

備註：“@”為主波，在此章節是不予以判定。

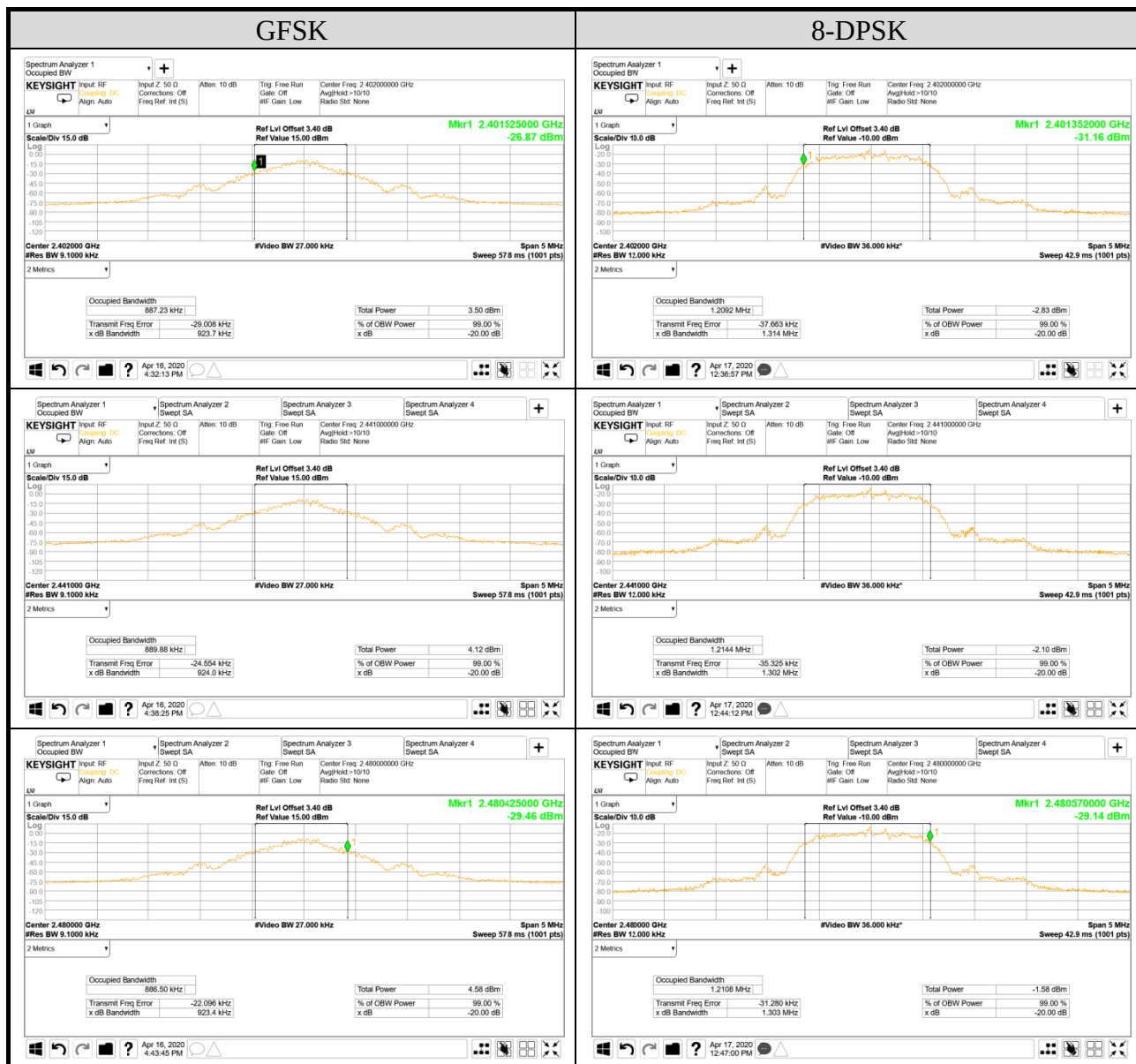
2. 20dB 頻寬之量測

測試日期	2020/04/16 ~ 17	環境溫/濕度	23°C/46~52%
測試電壓	DC 12V (經電源供應器電)	電纜損失	3.40dB
測試機型	內建擴大器功能機型	測試人員	Sam Chang

2.1. 20dB 頻寬

模式	測試頻率 (MHz)	20dB 頻寬 (MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK	2402	0.9237	0.616
	2441	0.9240	0.616
	2480	0.9234	0.616
8-DPSK	2402	1.314	0.876
	2441	1.302	0.868
	2480	1.303	0.869

2.2. 20dB 頻寬之量測圖



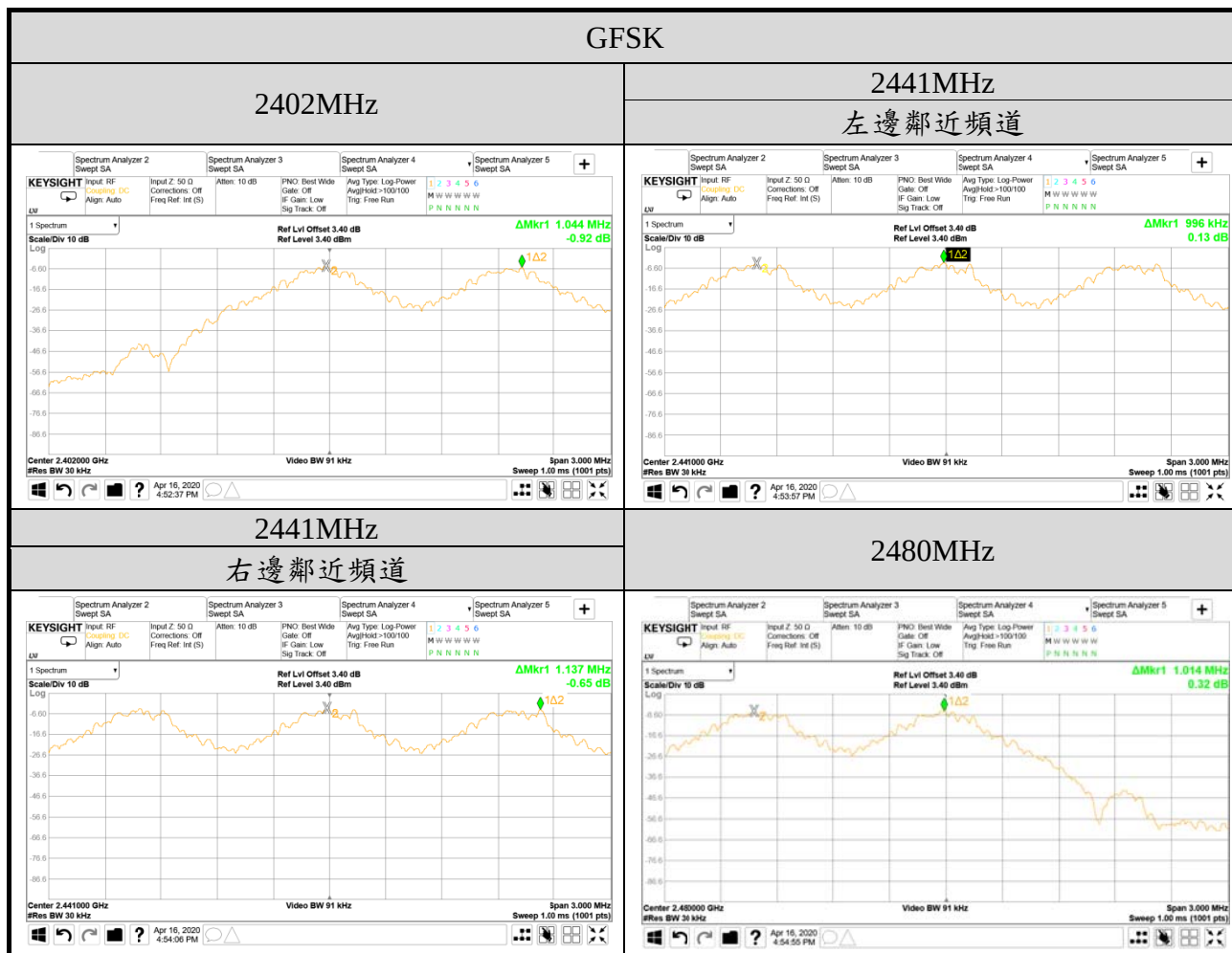
3. 載波頻率間隔之量測

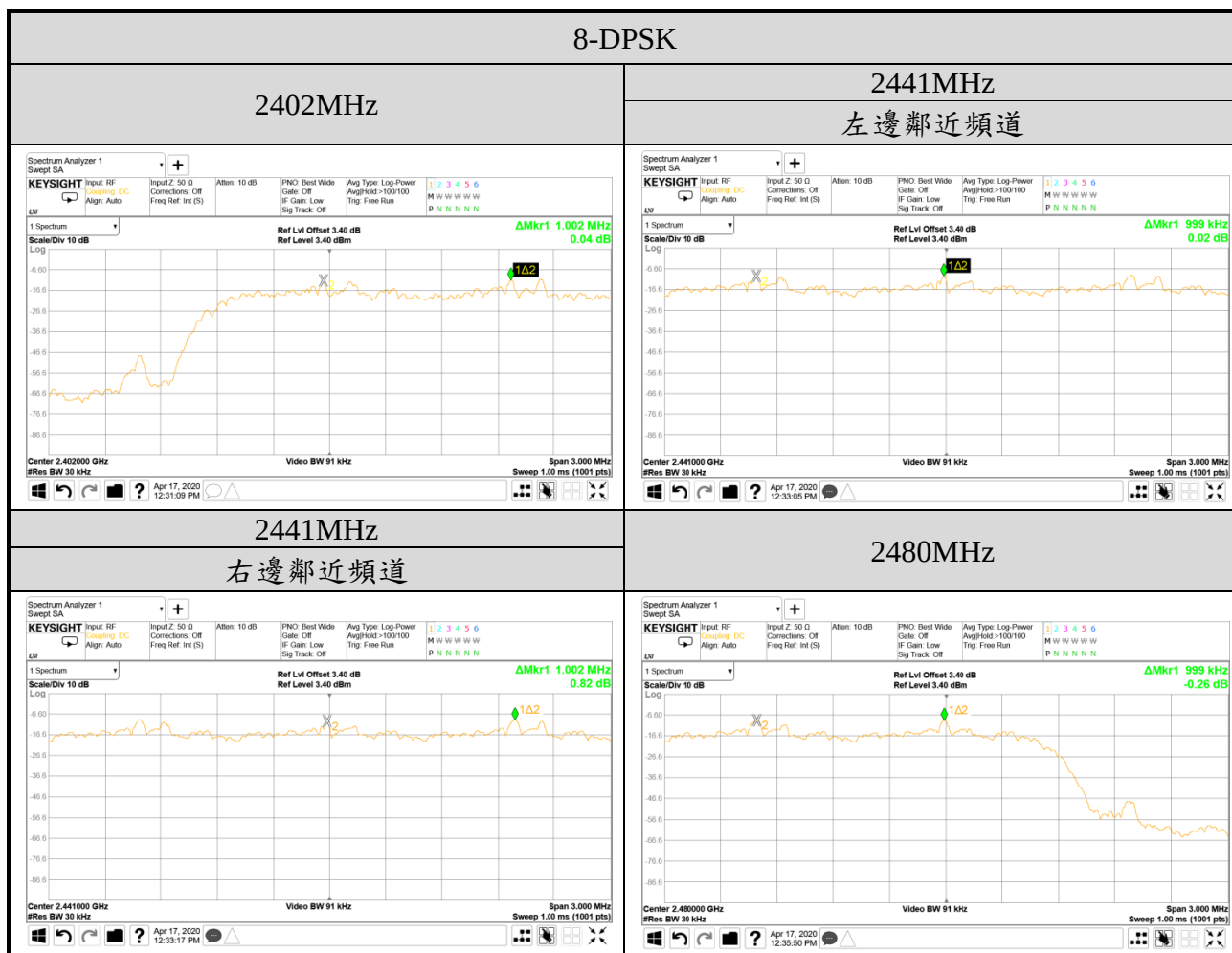
測試日期	2020/04/16 ~ 17	環境溫/濕度	23°C/46~52%
測試電壓	DC 12V (經電源供應器電)	電纜損失	3.40dB
測試機型	內建擴大器功能機型	測試人員	Sam Chang

3.1. 載波頻率間隔

模式 (Mode)	測試頻率 (MHz)	頻道間隔(MHz)	頻道間隔參考限制值 2/3 (20dB 頻寬) (MHz)
GFSK	2402	1.044	> 0.616
	2441 (左邊鄰近頻道)	0.996	
	2441 (右邊鄰近頻道)	1.137	
	2480	1.014	
8-DPSK	2402	1.002	> 0.876
	2441 (左邊鄰近頻道)	0.999	
	2441 (右邊鄰近頻道)	1.002	
	2480	0.999	

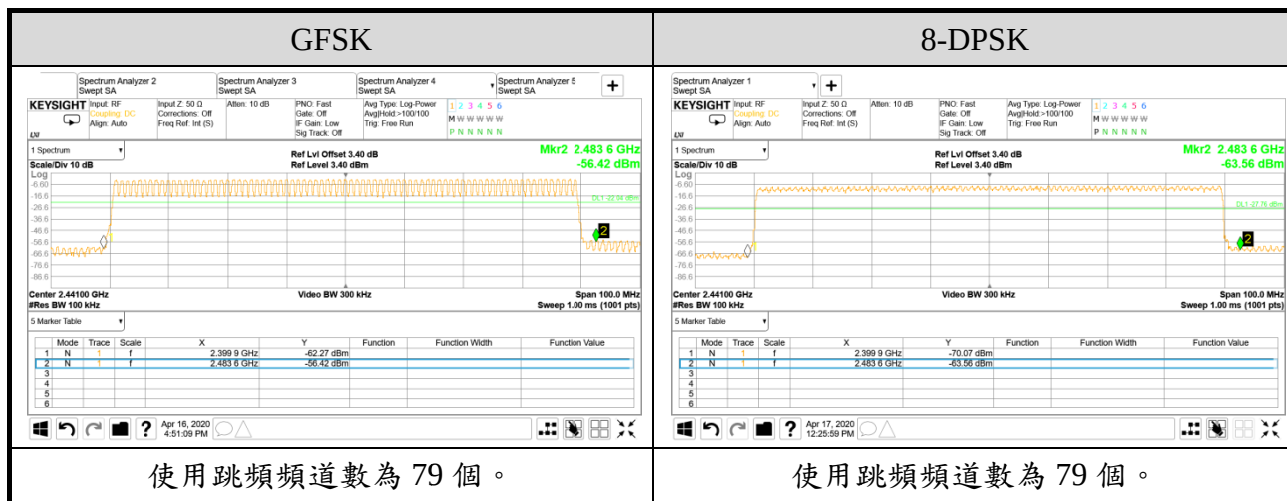
3.2. 載波頻率間隔之量測圖





4. 跳頻頻率數目之量測

測試日期	2020/04/16 ~ 17	環境溫/濕度	23°C/46~52%
測試電壓	DC 12V (經電源供應器電)	電纜損失	3.40dB
測試機型	內建擴大器功能機型	測試人員	Sam Chang



5. 佔用時間(停留時間)之量測

測試日期	2020/04/16 ~ 17	環境溫/濕度	23°C/46~52%
測試電壓	DC 12V (經電源供應器電)	電纜損失	3.40dB
測試機型	內建擴大器功能機型	測試人員	Sam Chang

5.1. 佔用時間(停留時間)

模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK	2402	DH1	10	0.420	132.720	<400
		DH3	6	1.675	317.580	<400
		DH5	3	2.930	277.764	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.420 \text{ ms} = 132.720 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 6 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$6 \text{ 頻道數} * 31.6 \text{ 秒} * 1.675 \text{ ms} = 317.580 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

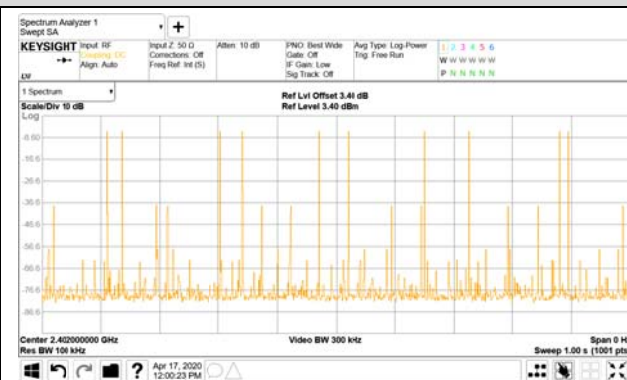
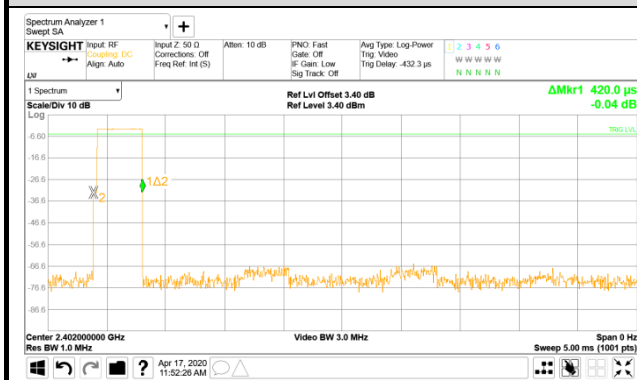
$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.930 \text{ ms} = 277.764 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

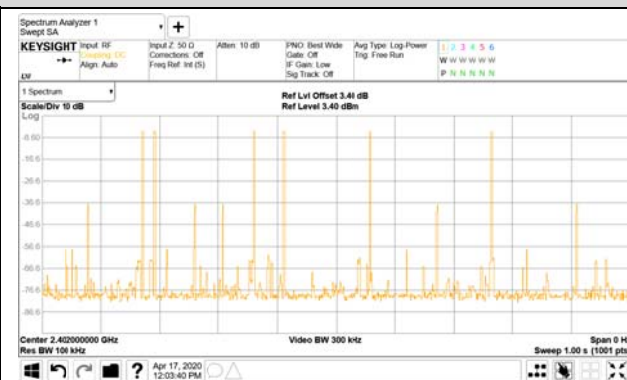
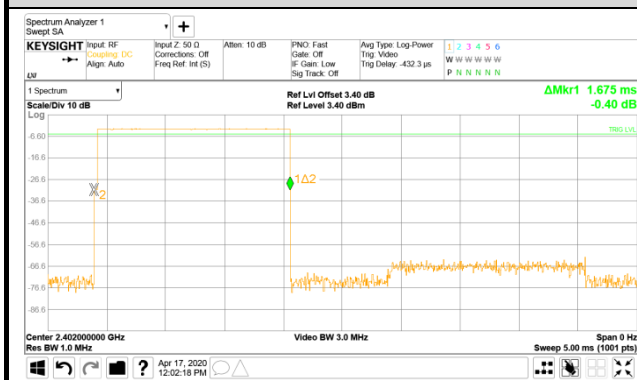
GFSK

2402MHz

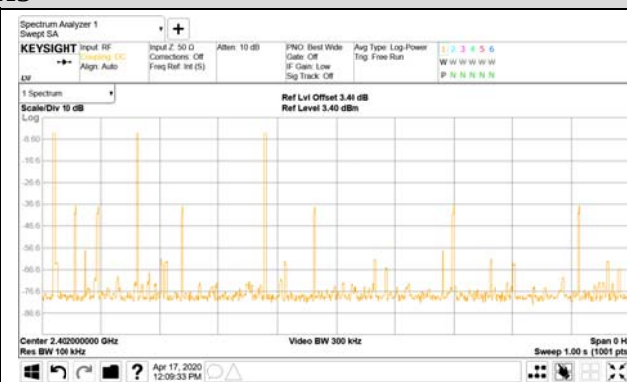
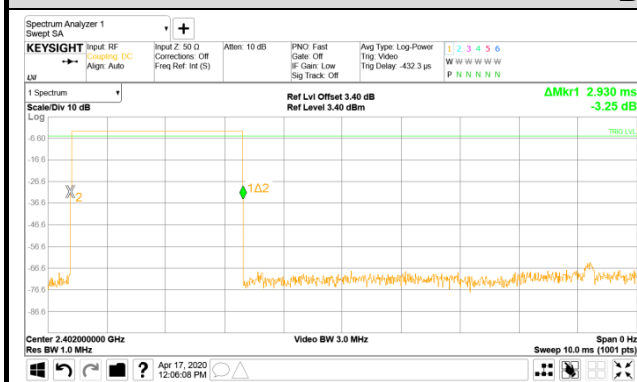
DH1



DH3



DH5



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK	2441	DH1	10	0.420	132.720	<400
		DH3	6	1.675	317.580	<400
		DH5	3	2.930	277.764	<400

週期之計算: 79 頻道數 * 0.4 秒 = 31.6 秒

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.420 \text{ ms} = 132.720 \text{ ms} (<400\text{ms})$$

封包模式: DH3

以每1秒出現 6 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$6 \text{ 頻道數} * 31.6 \text{ 秒} * 1.675 \text{ ms} = 317.580 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.930 \text{ ms} = 277.764 \text{ ms} (<400\text{ms})$$

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模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
GFSK	2480	DH1	10	0.420	132.720	<400
		DH3	6	1.675	317.580	<400
		DH5	3	2.930	277.764	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.420 \text{ ms} = 132.720 \text{ ms} (<400\text{ms})$$

封包模式: DH3

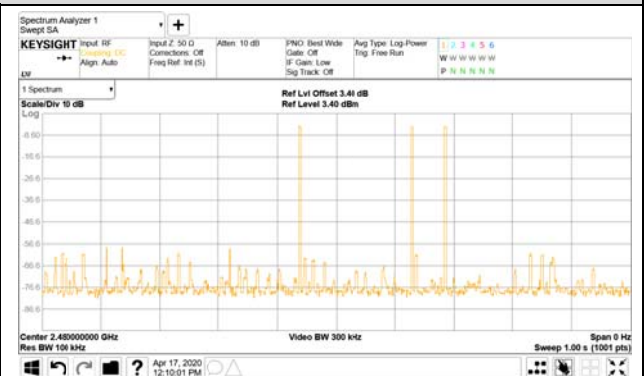
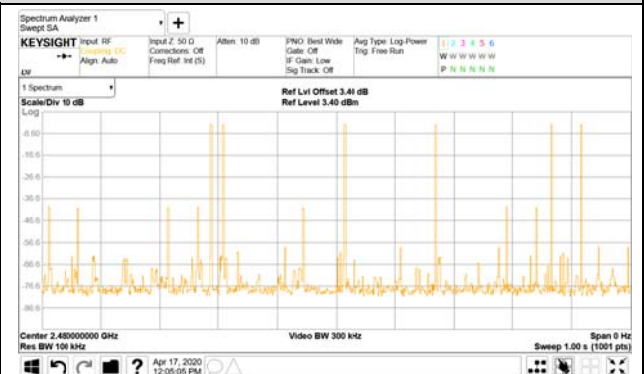
以每1秒出現 6 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$6 \text{ 頻道數} * 31.6 \text{ 秒} * 1.675 \text{ ms} = 317.580 \text{ ms} (<400\text{ms})$$

封包模式: DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.930 \text{ ms} = 277.764 \text{ ms} (<400\text{ms})$$



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK	2402	3DH1	10	0.420	132.720	<400
		3DH3	6	1.675	317.580	<400
		3DH5	3	2.930	277.764	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.420 \text{ ms} = 132.720 \text{ ms} (<400\text{ms})$$

封包模式: 3DH3

以每1秒出現 6 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$6 \text{ 頻道數} * 31.6 \text{ 秒} * 1.675 \text{ ms} = 317.580 \text{ ms} (<400\text{ms})$$

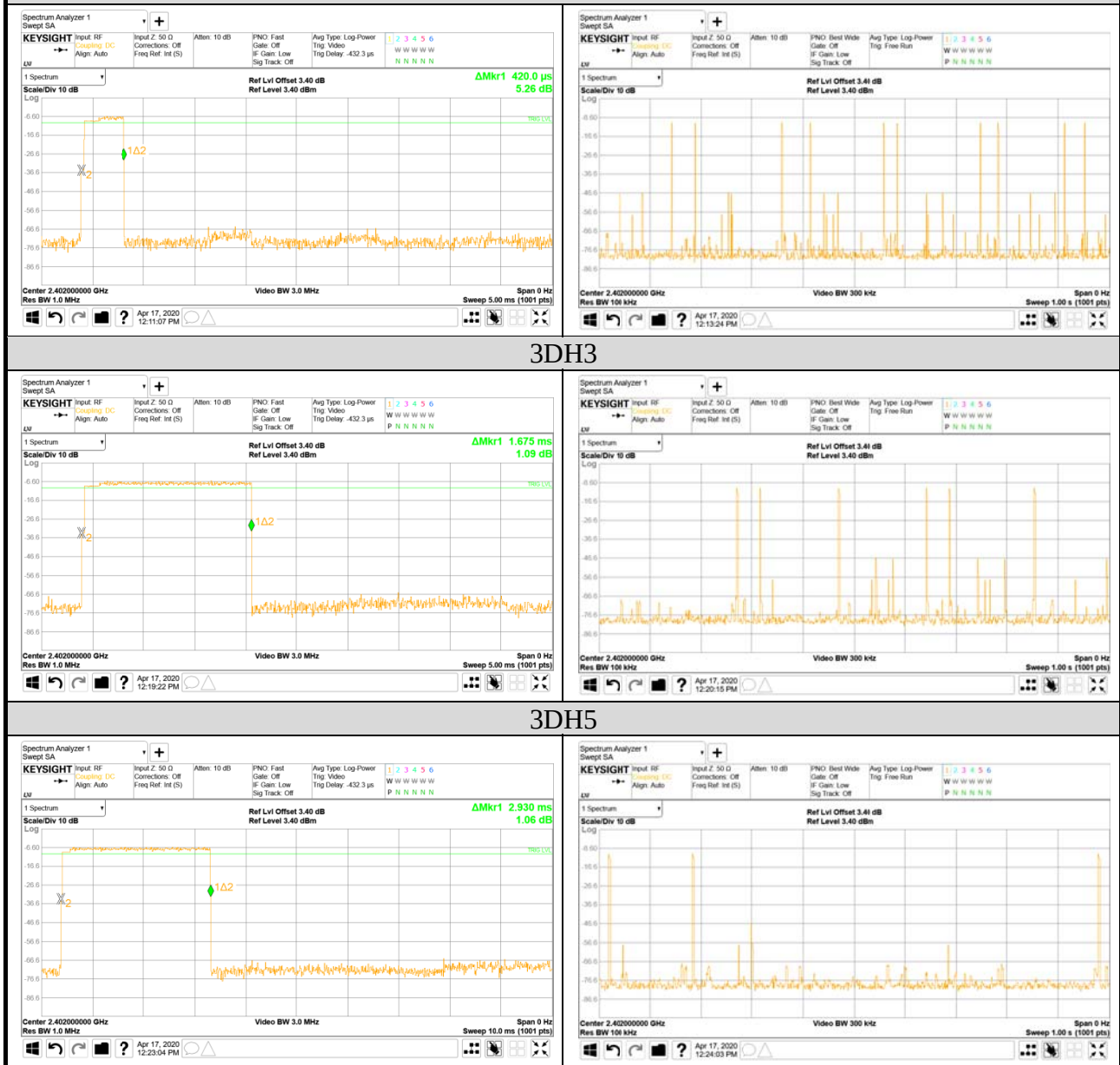
封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.930 \text{ ms} = 277.764 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

8-DPSK
2402MHz
3DH1



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK	2441	3DH1	10	0.420	132.720	<400
		3DH3	6	1.675	317.580	<400
		3DH5	3	2.930	277.764	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.420 \text{ ms} = 132.720 \text{ ms} (<400\text{ms})$$

封包模式: 3DH3

以每1秒出現 6 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$6 \text{ 頻道數} * 31.6 \text{ 秒} * 1.675 \text{ ms} = 317.580 \text{ ms} (<400\text{ms})$$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

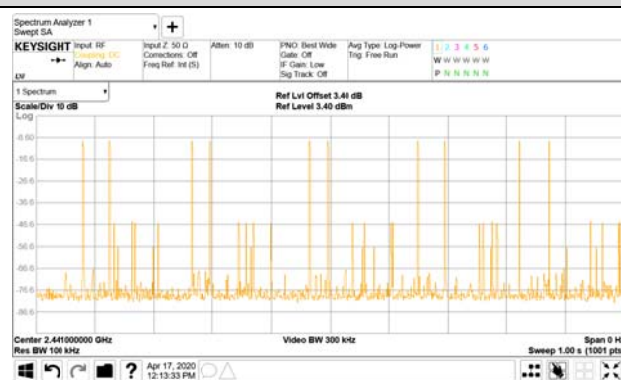
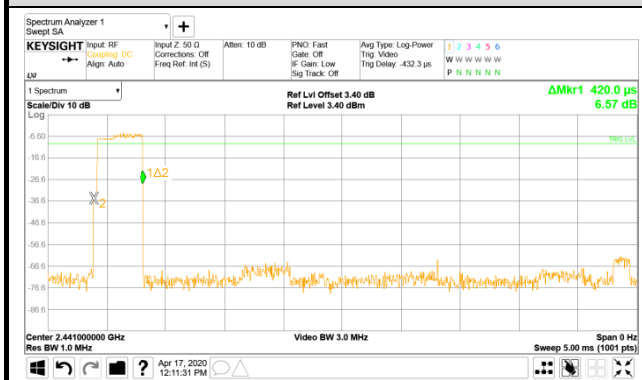
$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.930 \text{ ms} = 277.764 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

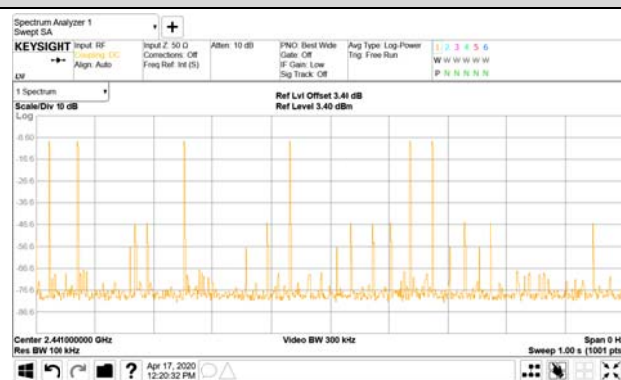
8-DPSK

2441MHz

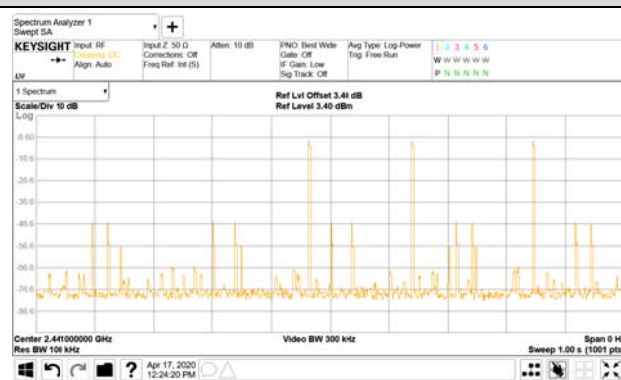
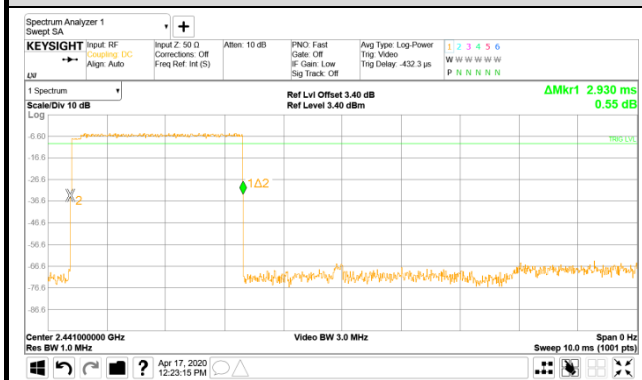
3DH1



3DH3



3DH5



模式	測試頻率 (MHz)	封包	每秒出現 頻道數	佔用時間 (ms)	佔用時間加總 (ms)	限制值 (ms)
8-DPSK	2480	3DH1	10	0.420	132.720	<400
		3DH3	6	1.675	317.580	<400
		3DH5	3	2.930	277.764	<400

週期之計算: $79 \text{ 頻道數} * 0.4 \text{ 秒} = 31.6 \text{ 秒}$

封包模式: 3DH1

以每1秒出現 10 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$10 \text{ 頻道數} * 31.6 \text{ 秒} * 0.420 \text{ ms} = 132.720 \text{ ms} (<400\text{ms})$$

封包模式: 3DH3

以每1秒出現 6 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

$$6 \text{ 頻道數} * 31.6 \text{ 秒} * 1.675 \text{ ms} = 317.580 \text{ ms} (<400\text{ms})$$

封包模式: 3DH5

以每1秒出現 3 個頻道數為例, 每 31.6 秒內之最長佔用時間為:

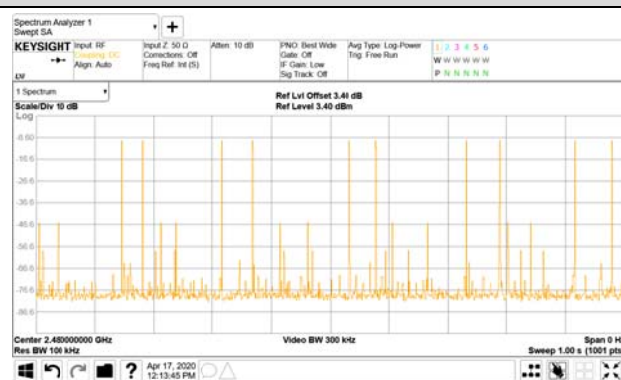
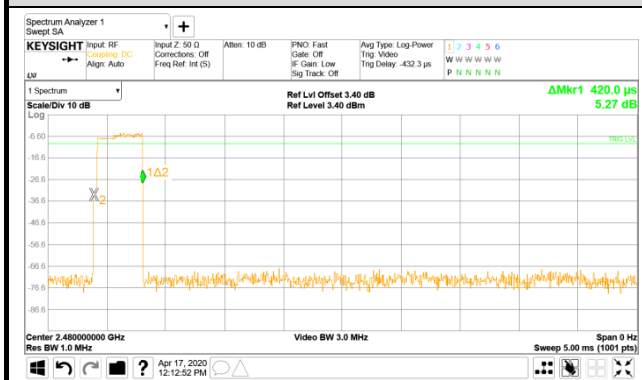
$$3 \text{ 頻道數} * 31.6 \text{ 秒} * 2.930 \text{ ms} = 277.764 \text{ ms} (<400\text{ms})$$

● 佔用時間(停留時間)之量測圖

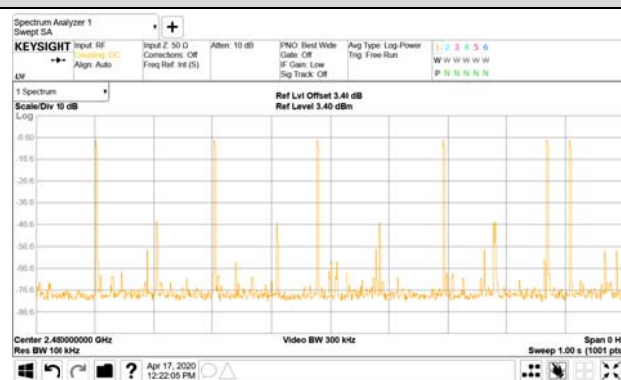
8-DPSK

2480MHz

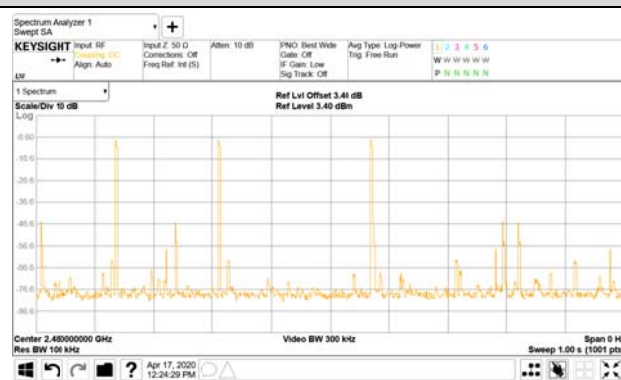
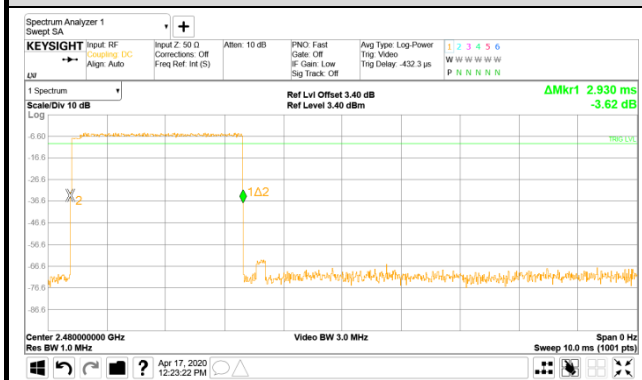
3DH1



3DH3



3DH5



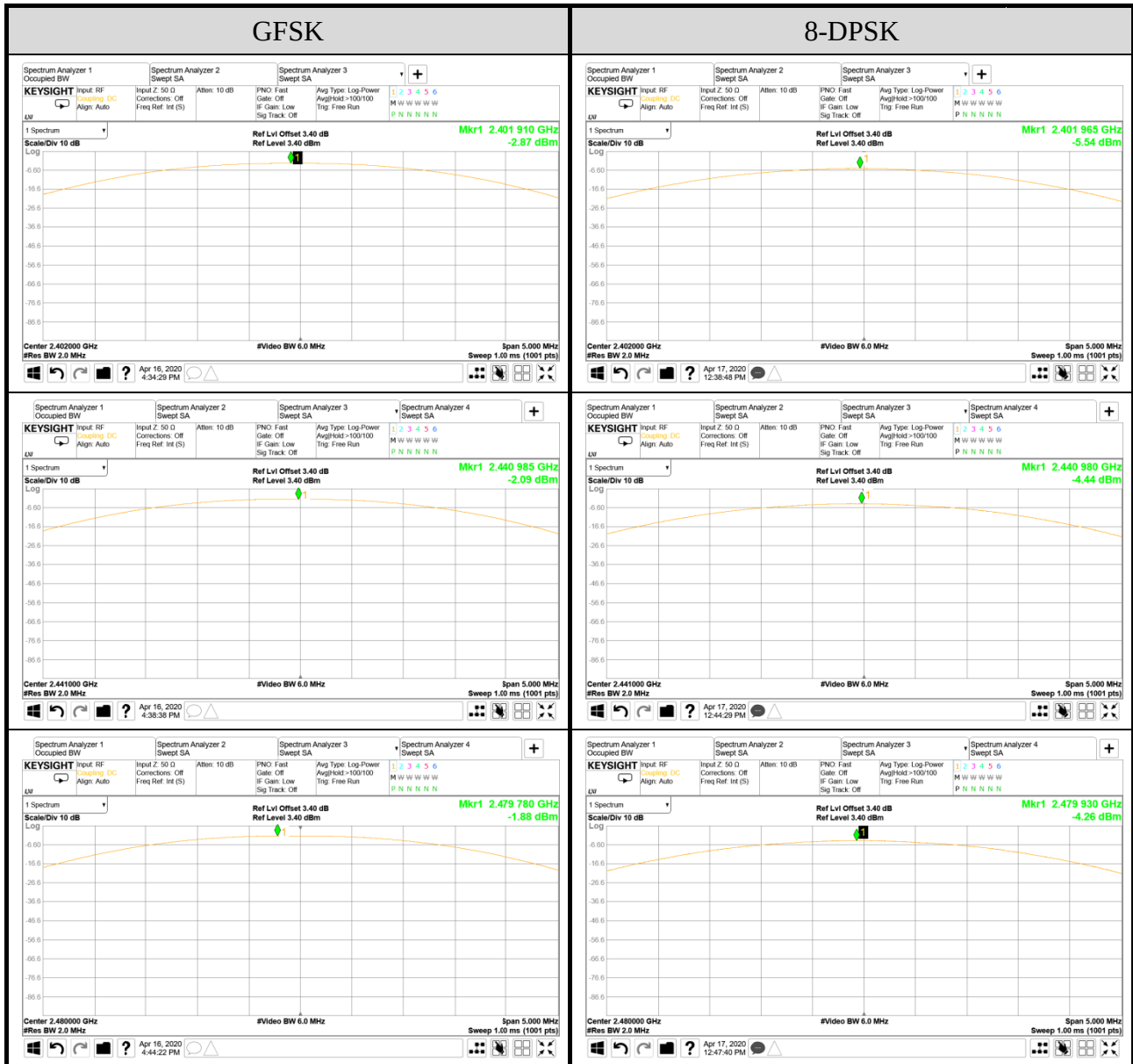
6. 峰值輸出功率之量測

測試日期	2020/04/16 ~ 17	環境溫/濕度	23°C/46~52%
測試電壓	DC 12V (經電源供應器電)	電纜損失	3.40dB
測試機型	內建擴大器功能機型	測試人員	Sam Chang

6.1. 峰值輸出功率

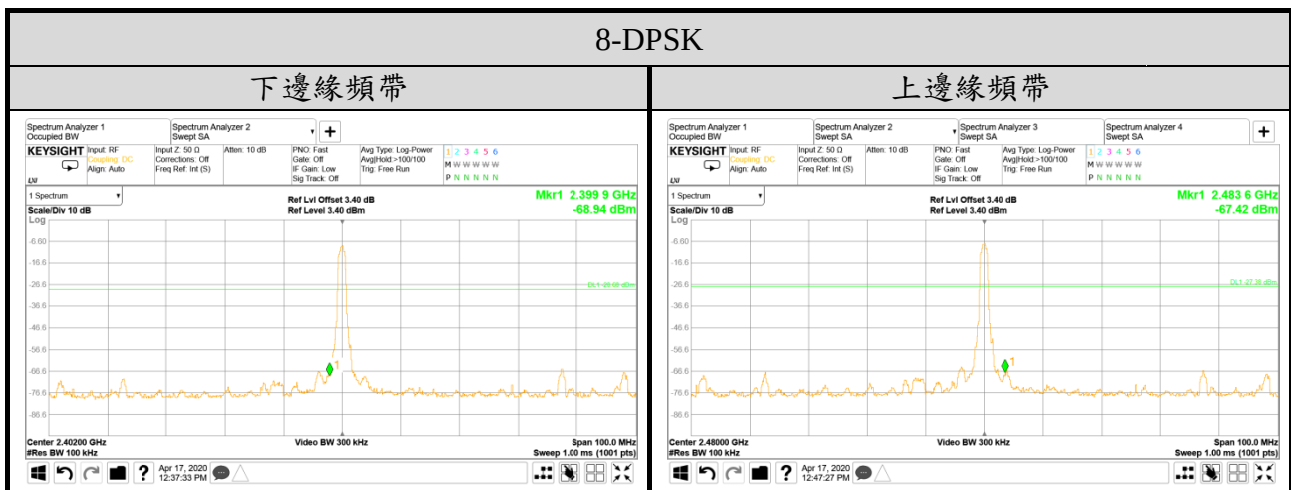
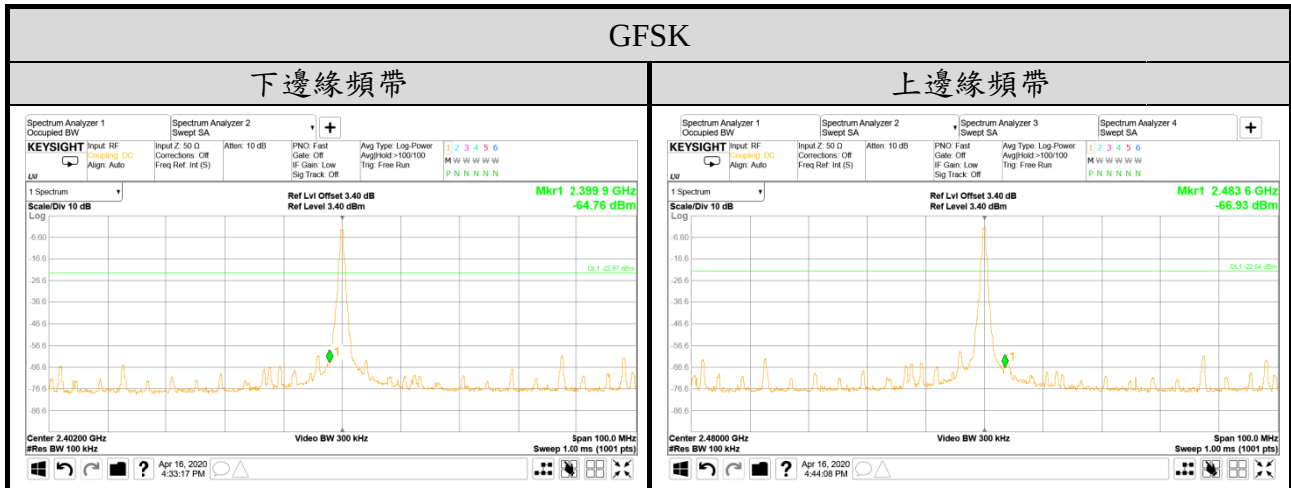
模式	測試頻率 (MHz)	峰值輸出功率(dBm)
GFSK	2402	-2.87
	2441	-2.09
	2480	-1.88
8-DPSK	2402	-5.54
	2441	-4.44
	2480	-4.26

6.2. 峰值輸出功率之量測圖



7. 頻帶邊緣之 RF 傳導發射之量測

測試日期	2020/04/16 ~ 17	環境溫/濕度	23°C/46~52%
測試電壓	DC 12V (經電源供應器電)	電纜損失	3.40dB
測試機型	內建擴大器功能機型	測試人員	Sam Chang



8. 混附發射之 RF 傳導發射之量測

測試日期	2020/04/16 ~ 17	環境溫/濕度	23°C/46~52%
測試電壓	DC 12V (經電源供應器電)	電纜損失	3.40dB
測試機型	內建擴大器功能機型	測試人員	Sam Chang



