



低功率射頻器材測試報告

申請廠商	: 雙全國際股份有限公司
地址	: 新北市汐止區新台五路一段 77 號 10 樓之 4
工廠	: 瑞伸通智能科技(深圳)有限公司
地址	: 深圳市寶安區新安街道靈芝園社區 22 區 中糧紫雲大廈 2103
產品名稱	: 諾基亞真無線藍牙耳機
產品型號	: E3103 (右耳)
廠牌	: NOKIA
受理日期	: 110 年 11 月 19 日
完成日期	: 110 年 12 月 23 日

實驗室名稱：世騰電子科技股份有限公司測試實驗室

實驗室地址：桃園市蘆竹區聯福街 2 巷 10 號

實驗室認可證書有效期限：112 年 07 月 08 日

實驗室認可編號及範圍：1439 (9 kHz to 40 GHz)

實驗室認證資格





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修訂記錄

報告號碼.	發行日期	描述
21110156-TRNCC02	Dec. 23, 2021	Original



證 明 書

申請廠商	: 雙全國際股份有限公司
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產品型號	: E3103 (右耳)
廠牌	: NOKIA
該產品樣品試驗 依據之試驗標準	: 國家通訊傳播委員會低功率射頻器材技術規範(LP0002)。 規範修訂日期 109 年 07 月 01 日。
發射功率 (電場強度)	: 1.21 dBm (Average)

茲在此鄭重聲明：

本試驗報告所列之待測設備樣品已於民國 110 年 12 月 17 日在本公司的標準測試場地完成詳細及完整之量測。本試驗報告所列之量測皆依據低功率射頻器材技術規範之規定來執行。並判斷此待測設備樣品確實符合低功率射頻器材技術規範規定。

備註：本測試報告僅對受測之樣品負責。非經本公司同意，測試報告不得摘錄複印使用。(全部複製除外)。

項次	測試項目	低功率射頻器材技術 規範	量測設備	測試結果	結果判定
1	天線增益之要求	4.10.1.3 節	---	請參閱 3.2 節	合格
2	電源線傳導干擾之要求	3.3 節	請參閱 2 章	請參閱 4.4 節	合格
3	場強輻射之要求	4.10.1.5 節	請參閱 2 章	請參閱 5.4 節 及 5.5 節	合格
4	發射頻寬之要求	4.10.1.6 節(2).(A)	請參閱 2 章	請參閱 6.4 節	合格
5	最大傳導輸出功率之要求	4.10.1.2 節(1)(C)	請參閱 2 章	請參閱 7.4 節	合格
6	混附波發射限制之要求	4.10.1.5 節	請參閱 2 章	請參閱 8.4 節	合格
7	功率密度之要求	4.10.1.6 節(2)(B)	請參閱 2 章	請參閱 9.4 節	合格

本實驗室已依據合約內的標準，降低儀器、環境、人員等不確定因素。因此測試結果將直接依照標準要求判定之。

報告簽署人：



1. 一般描述

1.1. 產品規格

Operation Frequency Range	2400-2483.5MHz
Center Frequency Range	2402MHz-2480MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK BLE: GFSK
Modulation Technology	FHSS, DTS
Data Rate	BT: GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps BLE: GFSK: 1Mbps GFSK: 2Mbps GFSK: 125Kbps GFSK: 500Kbps
Antenna Type	Chip Antenna
Antenna Gain	1.24dBi
USB 充電線	Brand: 新銳拓 Model: XRT-0028
充電盒	Brand: NOKIA Model: E3103
充電盒電池	Brand: TMB Model: 751435 Rating: 3.7V, 320mAh, 1.18Wh
耳機電池	Brand: TMB Model: 451012 Rating: 3.7V, 37mAh, 0.14Wh
諾基亞真無線藍牙耳機	Brand: NOKIA Model: E3103 (左耳)

Note: For more details, please refer to the User's manual of the EUT.

1.2. 差異說明

無。



1.3. 無線界面規格及頻道對應頻率

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
*00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	*19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	*39	2480
12	2426	26	2454	--	--
13	2428	27	2456	--	--

*為量測之頻率



1.4. 測試模式之描述

- 電源傳導及輻射測試之測試軟體如下:
 1. 將量測系統之全部電源打開。
 2. 於測試進行的同時，在 Windows OS system 作業系統下，待測物執行” FCC Assist ver.1.0.1.2” 傳送及接收訊號。
 3. 待測物使用 testfixture (廠牌: YD-TECH /型號: MCS-73-LV)搭配進行評估與測試。
- 執行以下測試模式如下：

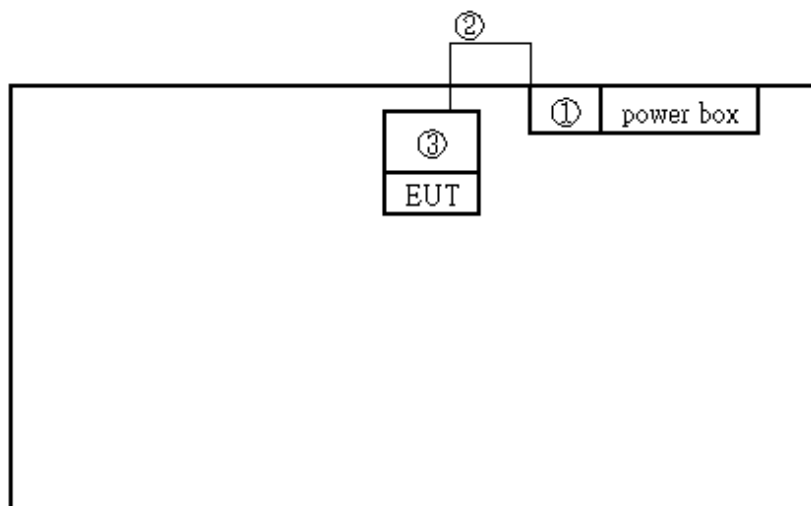
Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	Charge Mode
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	GFSK (1Mbps) , Transmitter Mode
2	GFSK (2Mbps) , Transmitter Mode
3	GFSK (125Kbps) , Transmitter Mode
4	GFSK (500Kbps) , Transmitter Mode
5	GFSK (1Mbps) , Receiver Mode
6	GFSK (2Mbps) , Receiver Mode
7	GFSK (125Kbps) , Receiver Mode
8	GFSK (500Kbps) , Receiver Mode
9	Charge Mode
caused “Test Mode 2, 6, 9” generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	GFSK (1Mbps) , Transmitter Mode
2	GFSK (2Mbps) , Transmitter Mode
3	GFSK (125Kbps) , Transmitter Mode
4	GFSK (500Kbps) , Transmitter Mode
5	GFSK (1Mbps) , Receiver Mode
6	GFSK (2Mbps) , Receiver Mode
7	GFSK (125Kbps) , Receiver Mode
8	GFSK (500Kbps) , Receiver Mode
caused “Test Mode 1~4, 6” generated the worst case, it was reported as the final data.	

Modulation Type	TX CONFIGURATION
GFSK (1Mbps)	1TX
GFSK (2Mbps)	1TX
GFSK (125Kbps)	1TX
GFSK (500Kbps)	1TX



1.5. 受測裝置之系統說明

傳導干擾: (Charge Mode):



Under Table

Remote Site

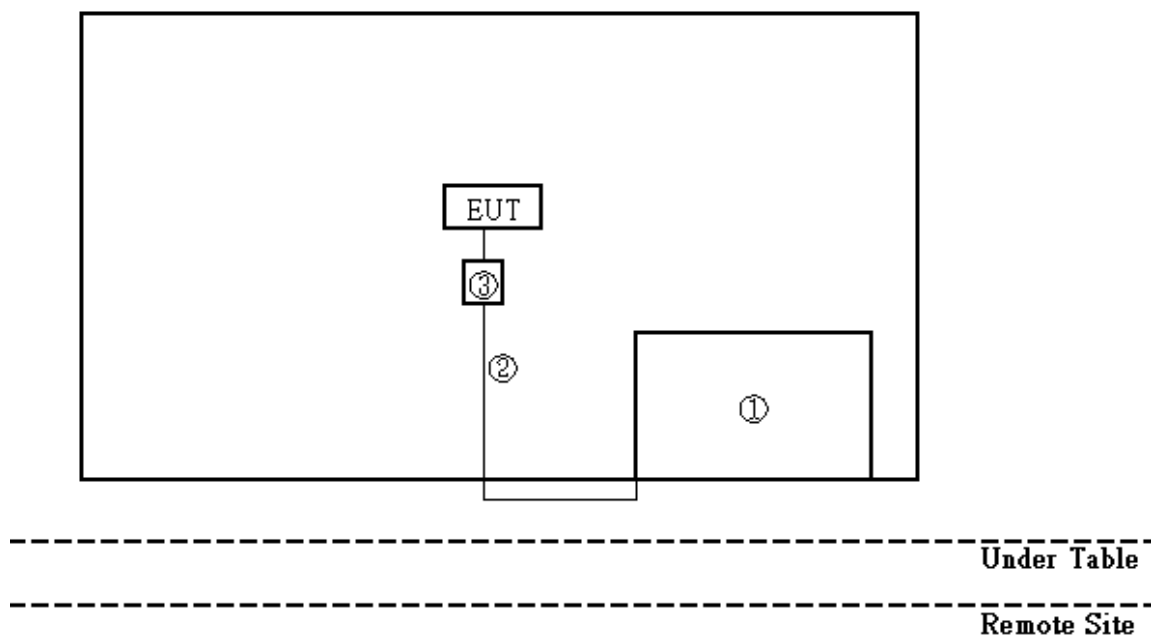
①power adapter

②USB充電線 (隨貨配件)

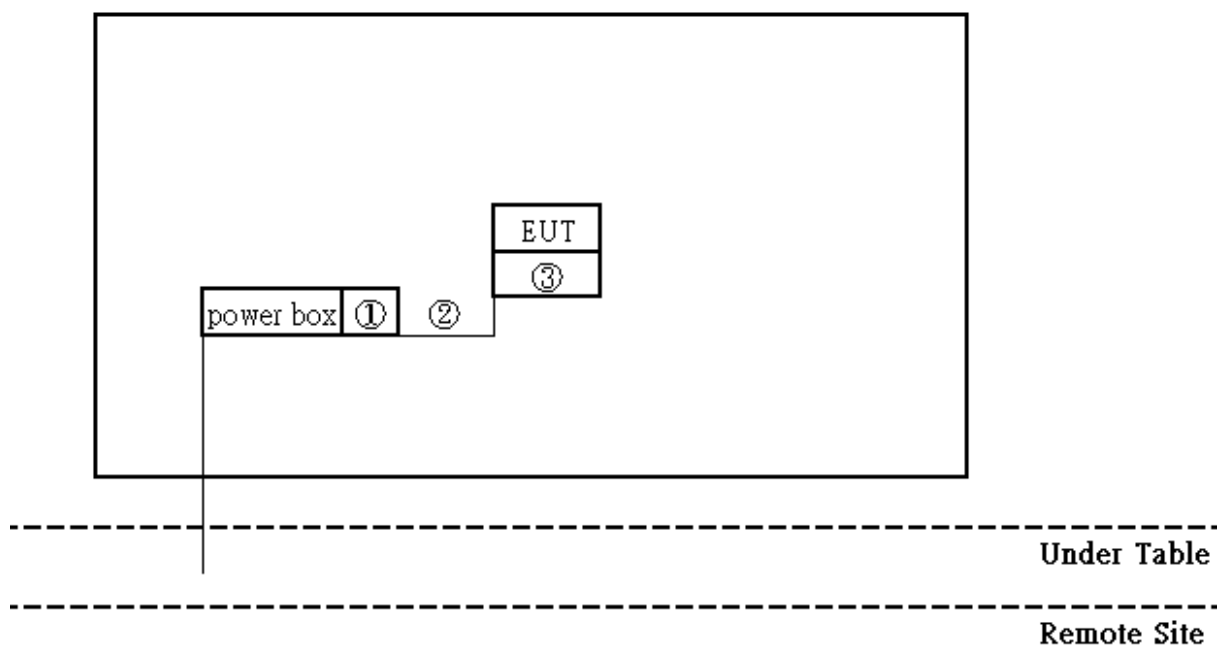
③充電盒 (隨貨配件)



輻射干擾:



輻射干擾(Charge Mode):



- ① power adapter
- ② USB充電線 (隨貨配件)
- ③ 充電盒 (隨貨配件)



「本案隨貨配件與實驗室提供配件併同檢驗」，其實驗室提供配件廠牌型號資訊如下：

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
testfixture	YD-TECH	MCS-73-LV	N/A	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
power adapter	hoda	TC-03	N/A	N/A
USB Cable	YD-teah	A-B	0.8m / NS	N/A
testfixture	YD-TECH	MCS-73-LV	N/A	N/A
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
power adapter	hoda	TC-03	N/A	N/A
USB Cable	YD-teah	A-B	0.8m / NS	N/A
testfixture	YD-TECH	MCS-73-LV	N/A	N/A



1.6. 測試場地

測試場地：	世騰電子科技股份有限公司測試實驗室 338 桃園市蘆竹區聯福街 2 巷 10 號
測試電壓：	DC 3.7V, AC 110V / 60Hz
適用規範：	本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻器材技術規範以及參考 ANSI、FCC/47CFR/2.1046、2.1047、2.1049、2.1051、2.1053 及 2.1055 之檢驗法。
測試頻率：	電源傳導：從 150 kHz 到 30 MHz。 場強輻射：從 30 MHz 到 25000 MHz。
測試天線的距離：	場強輻射之測試距離為 3 M。

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2021/12/16	26°C / 48%	Dian Chen
Radiated Emissions	3M03-NK	2021/12/16~2021/12/17	21~23°C / 48~53%	Leon Huang
AC Power Line Conducted Emission	CON01-NK	2021/12/16	21°C / 56%	Dian Chen

1.7. 量測不確定度

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.6dB
Radiated Spurious Emission(1GHz~25GHz)	±6.6dB
Conducted Spurious Emission	±1.8dB
6dB Bandwidth	±4.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±1.2%
Power Spectral Density	±1.8dB
Duty Cycle	±1.2%



2. 測試儀器

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Sunol	JB1	A080713	2021/11/05	2022/11/04
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	EMCO	3115	31589	2021/04/09	2022/04/08
Horn Antenna	EMCO	3116	31970	2021/03/29	2022/03/28
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100219	2021/08/06	2022/08/05
Preamplifier	EM Electronics corp.	EM01G18G	60831	2021/06/25	2022/06/24
Amplifier	EM Electronics corp.	EM330	60820	2021/07/25	2022/07/24
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
Cable-1m(30M-1G)	HUBER SUHNER	RG-214	00419M	2021/06/29	2022/06/28
Cable-1.5m(30M-1G)	HUBER SUHNER	RG-214	00420M	2021/06/29	2022/06/28
Cable-9m(30M-1G)	HUBER SUHNER	RG-214	00430M	2021/06/29	2022/06/28
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2021/09/22	2022/09/21
Cable-1.5m(1G-26.5G)	EMEC	EM104-SMSM-1.5M	EM104-SMSM-1.5M	2021/06/29	2022/06/28
Cable-9m(1G-26.5G)	EMEC	EM104-SMSM-9M	EM104-SMSM-9M	2021/06/29	2022/06/28
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2021/04/03	2022/04/02
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2021/04/09	2022/04/08
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2021/04/21	2022/04/20
Attenuator	KEYSIGHT	8491B	MY39250703	2021/04/09	2022/04/08
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2021/08/27	2022/08/26
Cable-0.5m(1G-26.5G)	HUBER SUHNER	SUCOFLEX 102	28422/2	2021/04/08	2022/04/07
Power Meter	Anritsu	ML2495A	1224005	2021/04/14	2022/04/13
Power Sensor	Anritsu	MA2411B	1207295	2021/04/14	2022/04/13
Switch Box	Theda	1-4	TW5451159	NA	NA
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2021/06/30	2022/06/29



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	101200	2021/08/30	2022/08/29
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2021/06/02	2022/06/01
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2021/03/10	2022/03/09
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2021/03/15	2022/03/14
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



3. 天線增益之要求

天線規格不受國家通訊傳播委員會低功率射頻器材技術規範(3.2)節規定之限制，其發射天線之方向性增益超過 6dBi 時，應依其所超過之 dB 數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情形之一：

操作於 2400-2483.5 兆赫(MHz)者，其發射天線之方向性增益超過 6dBi，應於每超過 3dB 降低 1dB 之峰值輸出功率。

操作於 5725-5850 兆赫(MHz)者，其發射天線之方向性增益超過 6dBi，不需降低峰值輸出功率。

3.1. 天線型式及其增益

1.1 Brand :	飛特爾
1.2 Model :	3216C0X
1.3 Antenna type :	Chip Antenna
1.4 Frequency Rang :	2402-2480MHz
1.5 Gain(peak) :	1.24 dBi
(參照天線規格資料)	

3.2. 結果判定

其發射天線之方向性增益低於 6dBi，因此無需降低峰值輸出功率。

4. 電源線傳導干擾之量測規定

4.1. 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範之 3.3 節，電源傳導干擾之限制要求如下：

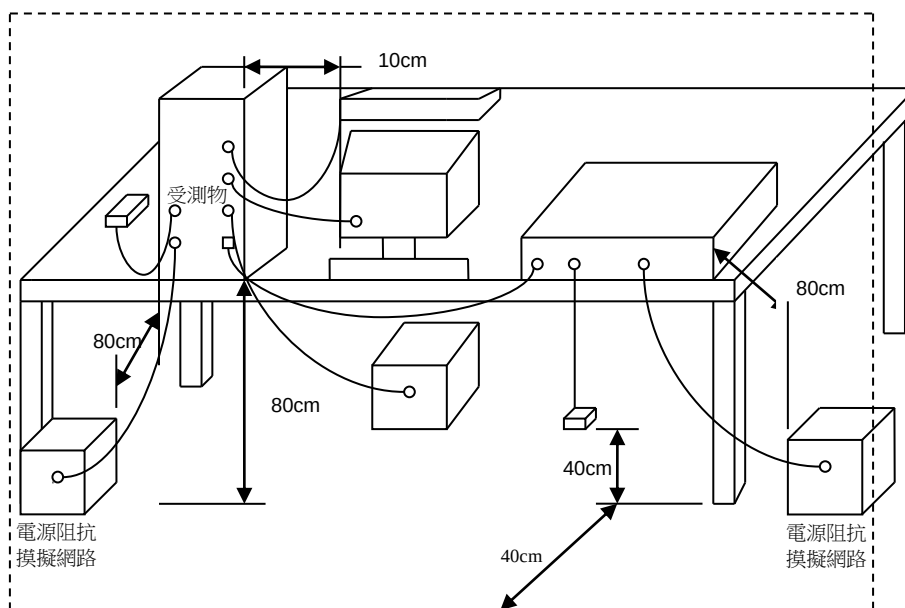
頻率範圍(MHz)	傳導限制值 (dB μ V)	
	準峰值(Quasi-peak)	平均值(Average)
0.15 ~ 0.5	66-56 (註)	56-46 (註)
0.5 ~ 5	56	46
5 ~ 30	60	50

註：隨頻率之對數遞減

4.2. 測試方法

將待測物置於 0.8 米高的非金屬桌面，使其在工作狀態，待測物電源線接至電源線接至電源阻抗穩定網路上，從測試接收機記錄頻率由 0.15MHz 至 30MHz 之間之電源線導放射強度。

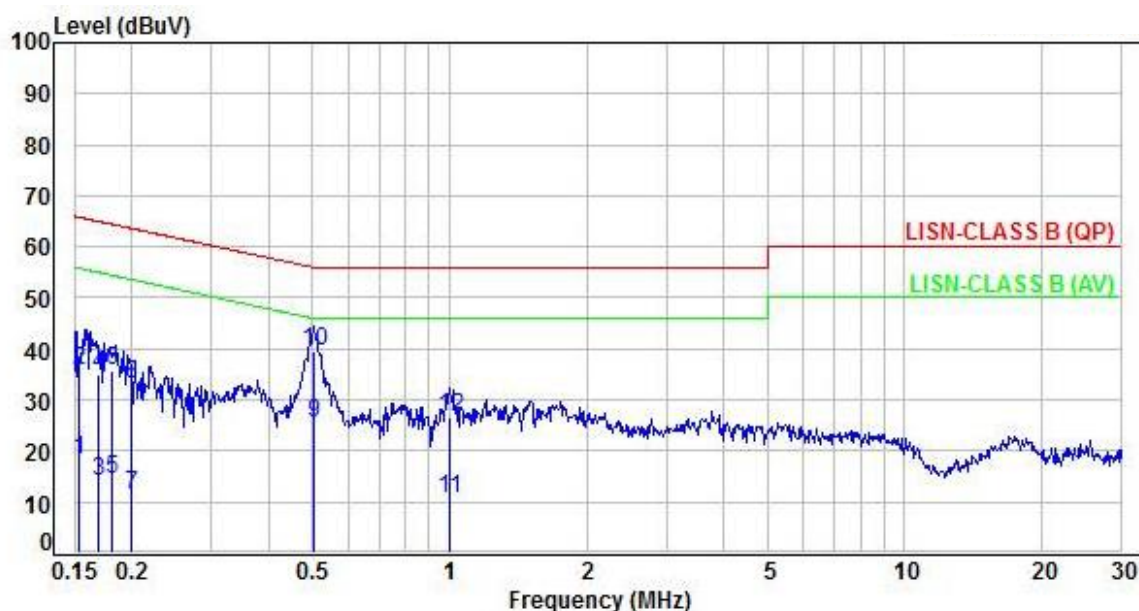
4.3. 傳導干擾之擺設





4.4. 傳導干擾之測試結果及數據

Power	: AC 110V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.97	8.17	18.14	55.80	-37.66	Average	P
2	0.15	9.97	25.61	35.58	65.80	-30.22	QP	P
3	0.17	9.97	4.23	14.20	54.98	-40.78	Average	P
4	0.17	9.97	25.05	35.02	64.98	-29.96	QP	P
5	0.18	9.97	4.47	14.44	54.43	-39.99	Average	P
6	0.18	9.97	25.64	35.61	64.43	-28.82	QP	P
7	0.20	9.97	1.51	11.48	53.60	-42.12	Average	P
8	0.20	9.97	23.20	33.17	63.60	-30.43	QP	P
9	0.50	9.99	15.63	25.62	46.00	-20.38	Average	P
10	0.50	9.99	29.39	39.38	56.00	-16.62	QP	P
11	1.00	10.05	0.78	10.83	46.00	-35.17	Average	P
12	1.00	10.05	16.61	26.66	56.00	-29.34	QP	P

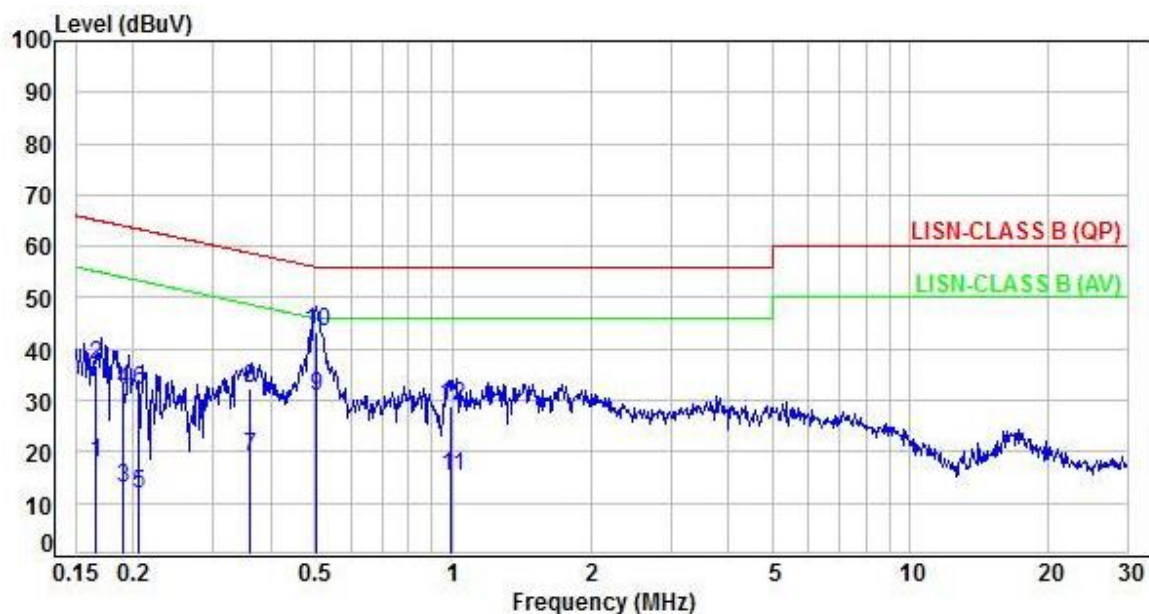
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 110V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.17	9.97	7.90	17.87	55.16	-37.29	Average	P
2	0.17	9.97	26.93	36.90	65.16	-28.26	QP	P
3	0.19	9.97	2.83	12.80	54.05	-41.25	Average	P
4	0.19	9.97	22.00	31.97	64.05	-32.08	QP	P
5	0.21	9.97	1.81	11.78	53.40	-41.62	Average	P
6	0.21	9.97	21.84	31.81	63.40	-31.59	QP	P
7	0.36	9.98	9.15	19.13	48.72	-29.59	Average	P
8	0.36	9.98	22.29	32.27	58.72	-26.45	QP	P
9	0.50	9.98	20.94	30.92	46.00	-15.08	Average	P
10	0.50	9.98	33.47	43.45	56.00	-12.55	QP	P
11	0.99	10.03	5.00	15.03	46.00	-30.97	Average	P
12	0.99	10.03	18.80	28.83	56.00	-27.17	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



5. 輻射之量測規定

5.1. 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範 4.10.1.5 節之要求，落於 3.5 節禁用頻段之輻射干擾需符合 3.6 節之一般限制要求：

頻率(MHz)	測試距離(m)	限制值(dB μ V)	限制值(μ V/m)
0.009 – 0.490 (含)	300	67.6 / f(kHz)	2400 / f(kHz)
0.490 (不含) – 1.705 (含)	30	87.6 / f(kHz)	24000 / f(kHz)
1.705(不含) – 30(不含)	30	29.5	30
30 (含) – 88 (含)	3	40.0	100
88(不含) – 216 (含)	3	43.5	150
216(不含) – 960 (含)	3	46.0	200
960(不含)以上	3	54.0	500

5.2. 測試方法

將待測物置於 0.8 米(Below 1G) & 1.5 米(Above 1G)高的非金屬桌面，使其在測試模式狀態，且設定為高、中、低各頻道產生最高峰值輸出功率的傳輸速率，接收天線置於 3 米外，且桌面要 360 度旋轉，另外接收天線也要從 1 米至 4 米升降變化，接收天線置於水平、垂直極向各執行測試一次。如待測物可以三軸相放置，並分別測試以找出最大輻射電場強度(最差的結果為 Z 軸)。

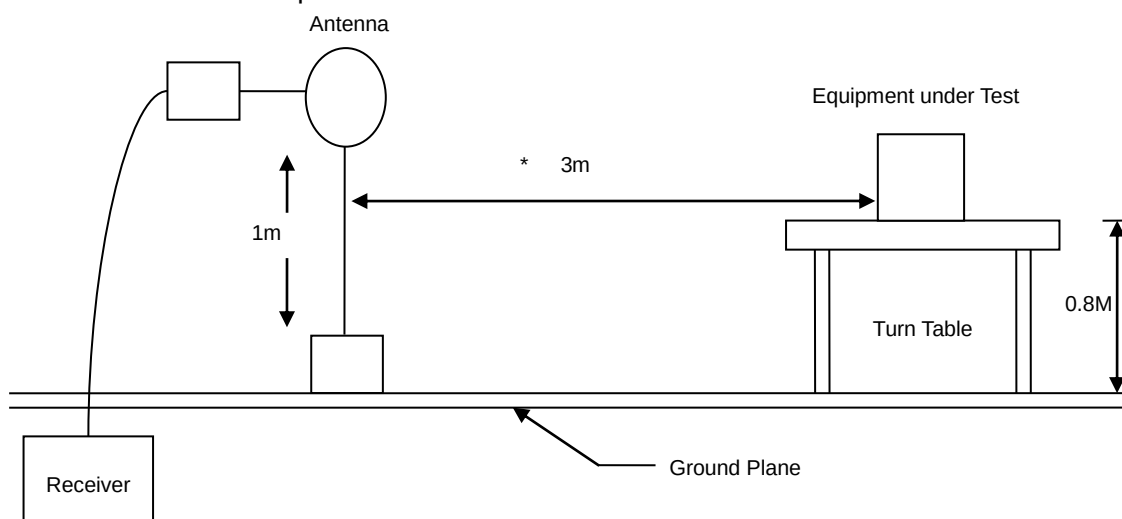
備註：

1.For Below 1G 若待測物之輻射峰值低於限制值 3dB 以上，則將終止測試，並以峰值之讀值作為報告之記錄;反之，若無 3dB 餘裕範圍之輻射，則每一訊號皆以準峰值之測試方法量測，並記錄於報告之中

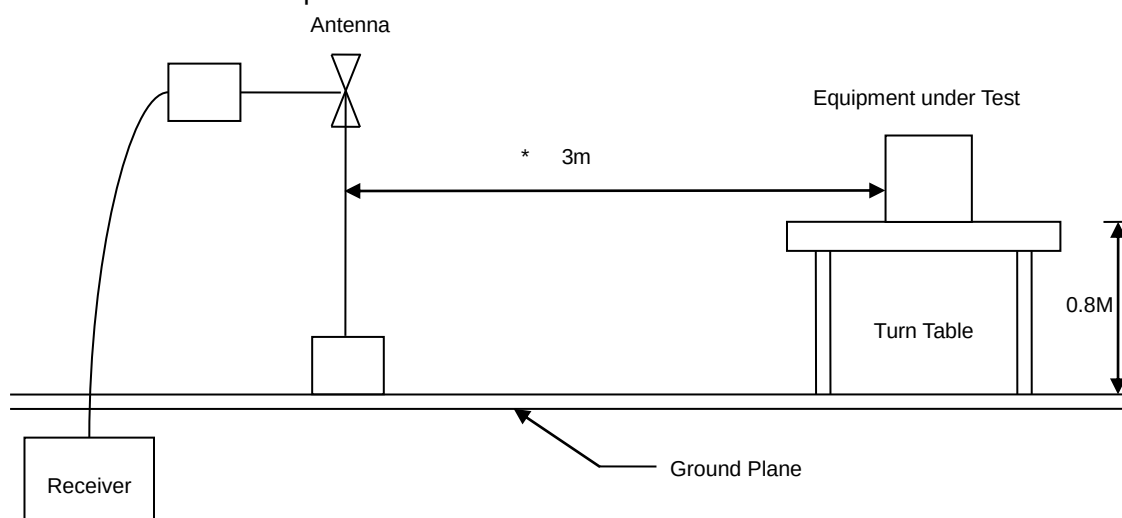
2.Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.

5.3. 輻射場地之擺設

Below 30MHz test setup

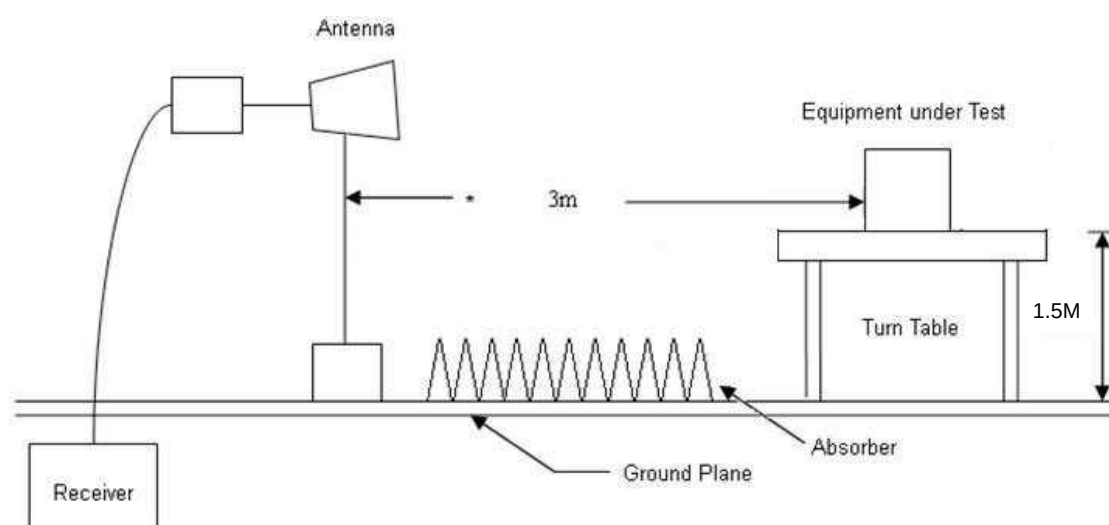


30MHz- 1GHz Test Setup





Above 1GHz Test Setup



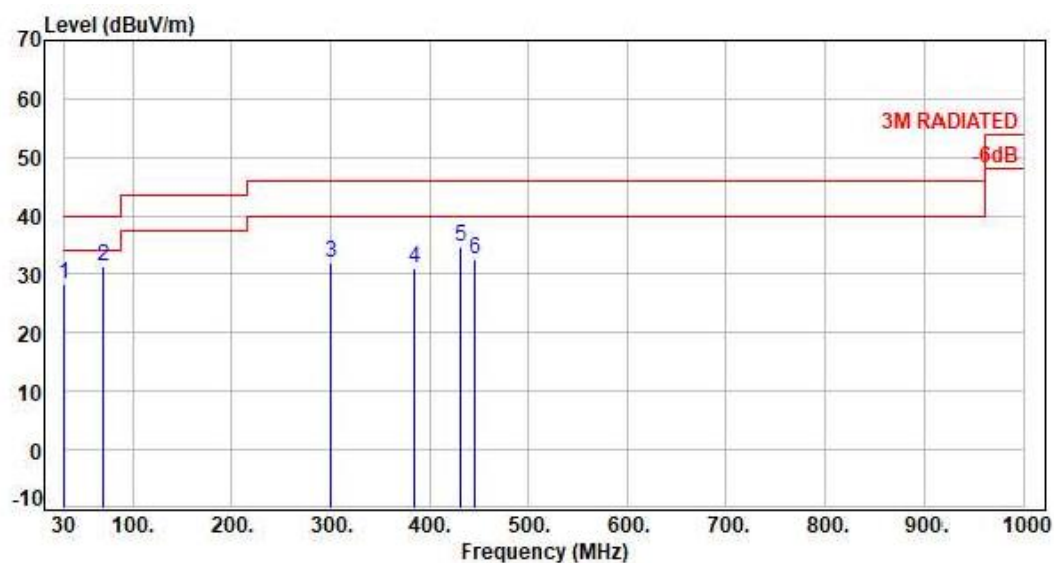


5.4. 輻射之測試結果及數據 (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

5.5. 輻射之測試結果及數據 (30MHz ~ 1GHz)

Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.62	31.99	28.37	40.00	-11.63	Peak	400	360	P
2	70.74	-17.17	48.45	31.28	40.00	-8.72	Peak	400	360	P
3	299.66	-10.48	42.49	32.01	46.00	-13.99	Peak	400	360	P
4	384.05	-8.42	39.57	31.15	46.00	-14.85	Peak	400	360	P
5	431.58	-6.97	41.63	34.66	46.00	-11.34	Peak	400	360	P
6	445.16	-7.08	39.74	32.66	46.00	-13.34	Peak	400	360	P

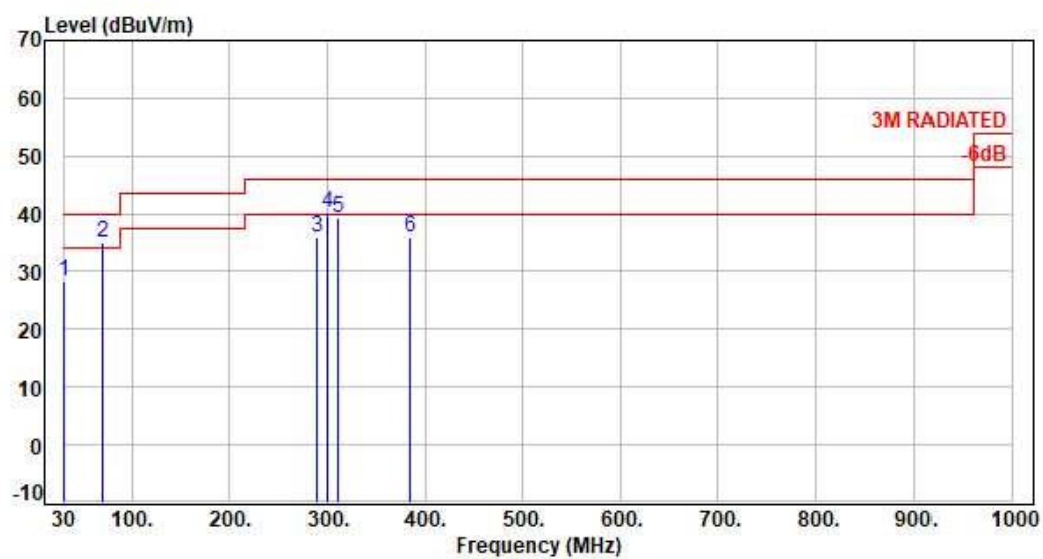
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.62	31.89	28.27	40.00	-11.73	Peak	400	360	P
2	70.74	-17.17	52.11	34.94	40.00	-5.06	Peak	400	360	P
3	288.99	-10.72	46.71	35.99	46.00	-10.01	Peak	400	360	P
4	299.66	-10.48	50.58	40.10	46.00	-5.90	Peak	400	360	P
5	311.30	-10.20	49.37	39.17	46.00	-6.83	Peak	400	360	P
6	384.05	-8.42	44.26	35.84	46.00	-10.16	Peak	400	360	P

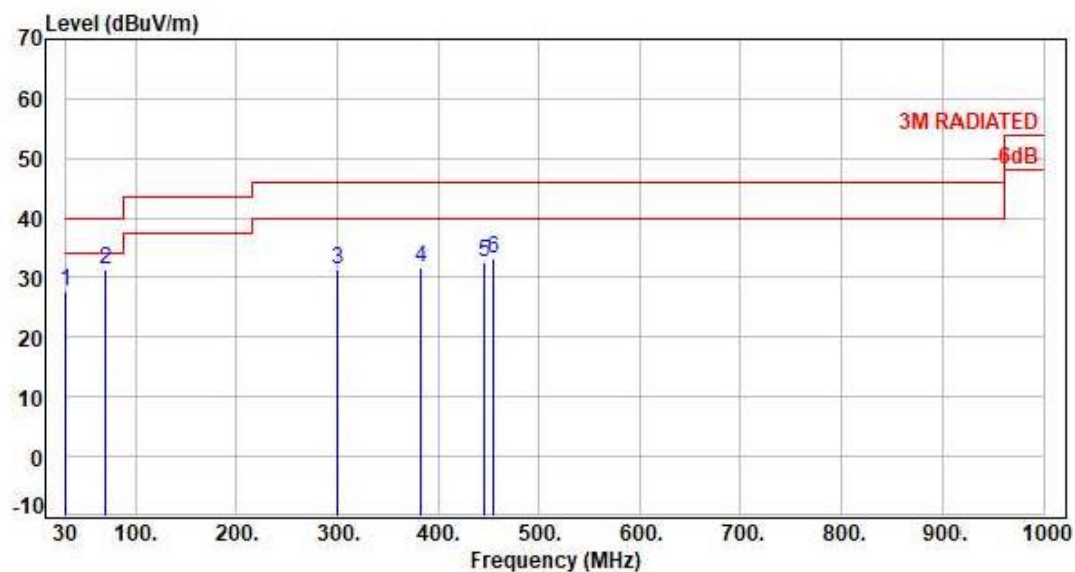
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.62	31.48	27.86	40.00	-12.14	Peak	400	360	P
2	70.74	-17.17	48.62	31.45	40.00	-8.55	Peak	400	360	P
3	299.66	-10.48	41.84	31.36	46.00	-14.64	Peak	400	360	P
4	383.08	-8.42	40.11	31.69	46.00	-14.31	Peak	400	360	P
5	445.16	-7.08	39.65	32.57	46.00	-13.43	Peak	400	360	P
6	454.86	-6.67	39.86	33.19	46.00	-12.81	Peak	400	360	P

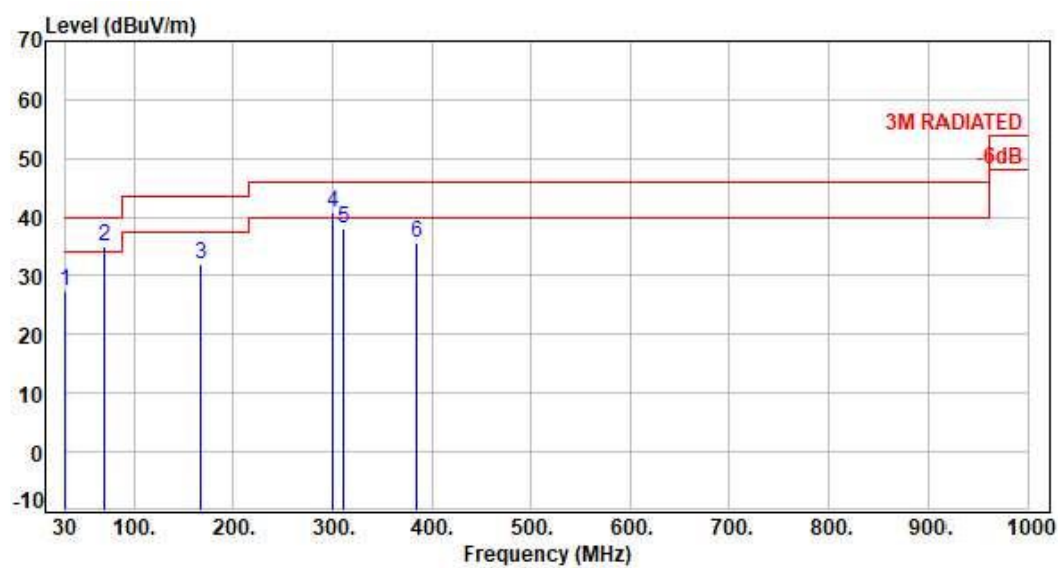
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.62	30.93	27.31	40.00	-12.69	Peak	400	360	P
2	70.74	-17.17	52.25	35.08	40.00	-4.92	Peak	400	360	P
3	167.74	-12.78	44.80	32.02	43.50	-11.48	Peak	400	360	P
4	299.66	-10.48	51.14	40.66	46.00	-5.34	Peak	400	360	P
5	311.30	-10.20	48.27	38.07	46.00	-7.93	Peak	400	360	P
6	384.05	-8.42	43.90	35.48	46.00	-10.52	Peak	400	360	P

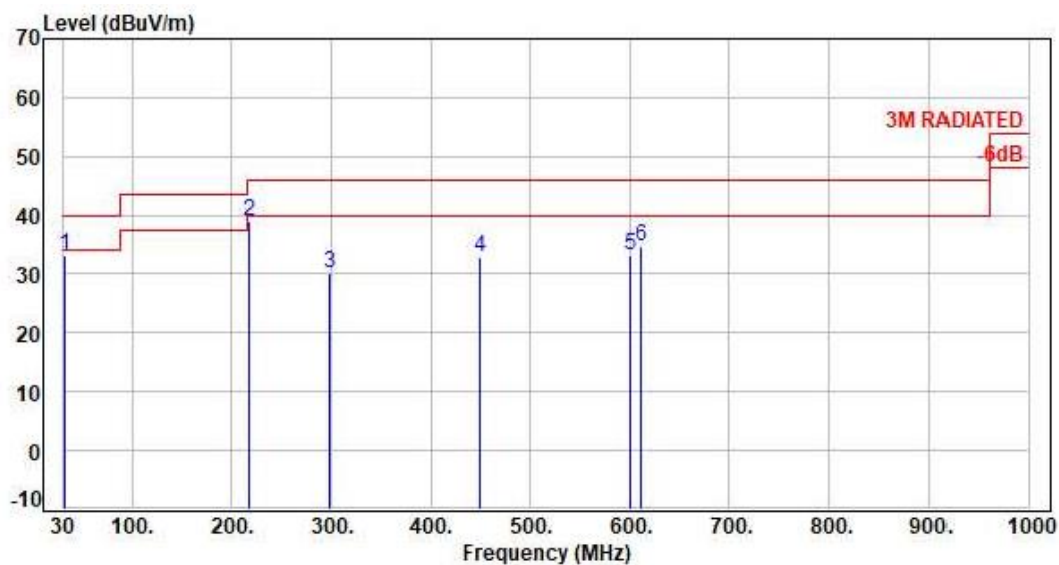
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 9		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	32.91	-5.82	38.91	33.09	40.00	-6.91	Peak	400	360	P
2	218.18	-13.50	52.58	39.08	46.00	-6.92	Peak	400	360	P
3	298.69	-10.50	40.72	30.22	46.00	-15.78	Peak	400	360	P
4	450.01	-6.78	39.53	32.75	46.00	-13.25	Peak	400	360	P
5	600.36	-4.30	37.40	33.10	46.00	-12.90	Peak	400	360	P
6	612.00	-4.03	38.87	34.84	46.00	-11.16	Peak	400	360	P

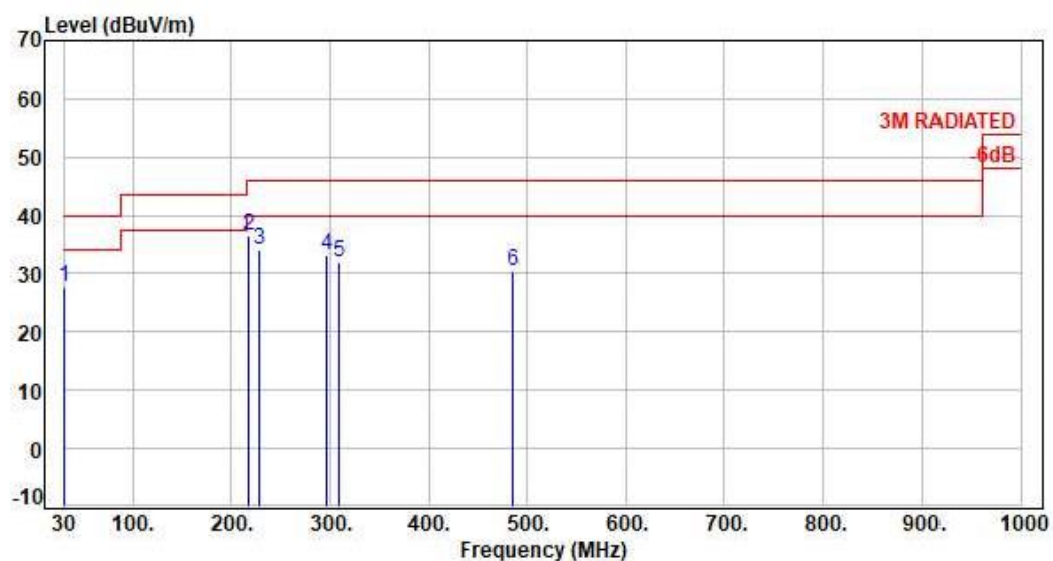
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 9		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.62	31.25	27.63	40.00	-12.37	Peak	400	360	P
2	218.18	-13.50	50.13	36.63	46.00	-9.37	Peak	400	360	P
3	227.88	-13.15	47.37	34.22	46.00	-11.78	Peak	400	360	P
4	295.78	-10.57	43.78	33.21	46.00	-12.79	Peak	400	360	P
5	308.39	-10.26	42.21	31.95	46.00	-14.05	Peak	400	360	P
6	485.90	-5.77	36.33	30.56	46.00	-15.44	Peak	400	360	P

Note: Level=Reading+Factor

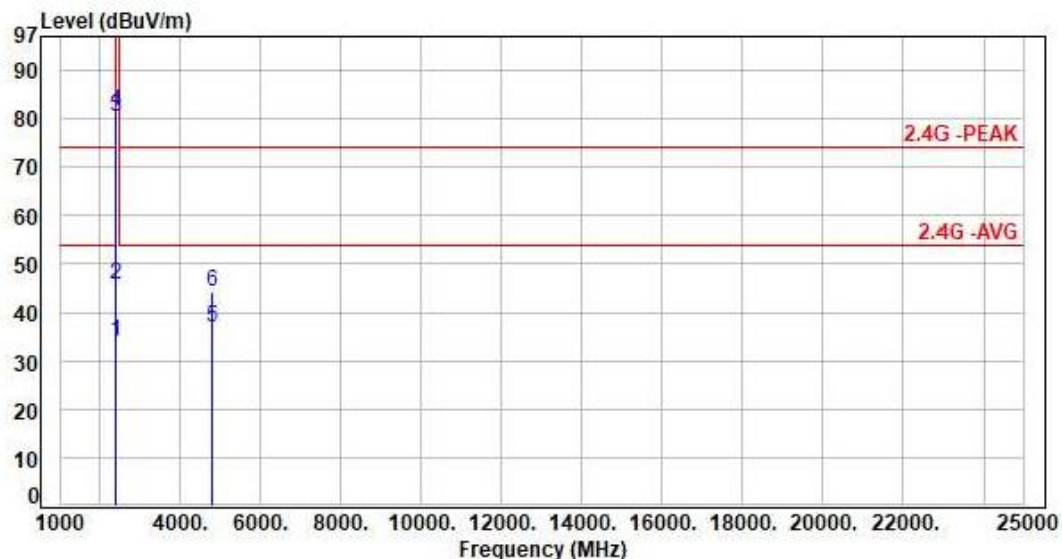
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



5.6. 輻射之測試結果及數據 (1GHz ~ 25GHz)

Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	48.01	34.10	54.00	-19.90	Average	100	300	P
2	2390.00	-13.91	59.61	45.70	74.00	-28.30	Peak	100	300	P
3	2402.00	-13.92	94.17	80.25	200.00	-119.75	Average	100	300	P
4	2402.00	-13.92	95.45	81.53	200.00	-118.47	Peak	100	300	P
5	4804.00	-6.60	43.44	36.84	54.00	-17.16	Average	106	102	P
6	4804.00	-6.60	50.68	44.08	74.00	-29.92	Peak	106	102	P

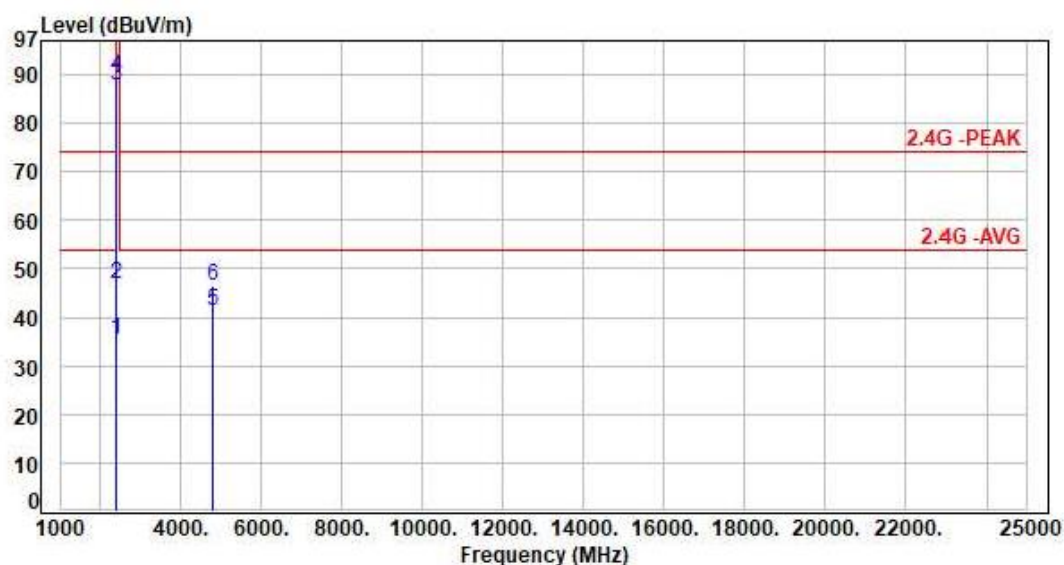
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	49.39	35.48	54.00	-18.52	Average	124	169	P
2	2390.00	-13.91	60.82	46.91	74.00	-27.09	Peak	124	169	P
3	2402.00	-13.92	101.64	87.72	200.00	-112.28	Average	124	169	P
4	2402.00	-13.92	103.41	89.49	200.00	-110.51	Peak	124	169	P
5	4804.00	-6.60	47.79	41.19	54.00	-12.81	Average	100	84	P
6	4804.00	-6.60	53.13	46.53	74.00	-27.47	Peak	100	84	P

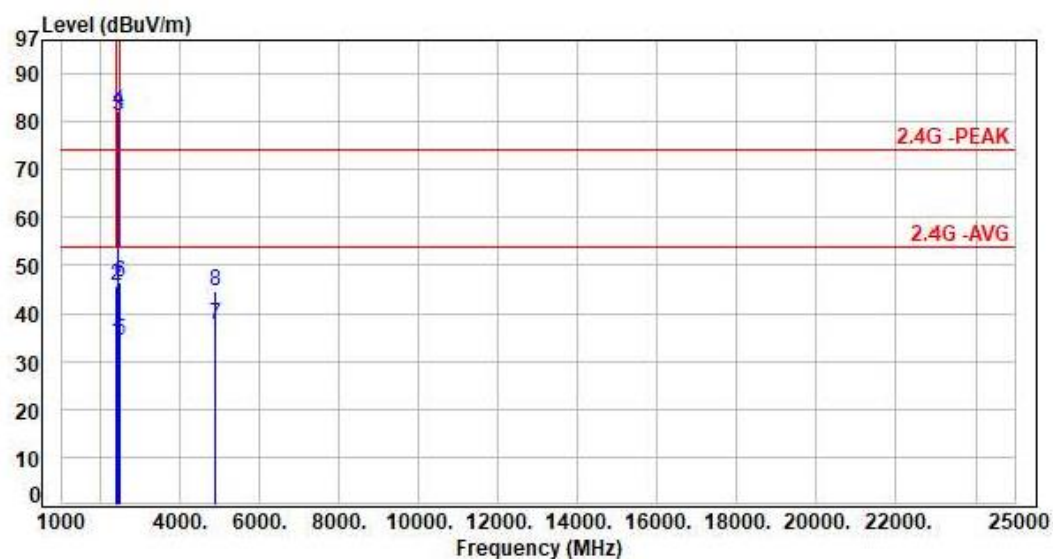
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.71	33.80	54.00	-20.20	Average	100	299	P
2	2390.00	-13.91	59.58	45.67	74.00	-28.33	Peak	100	299	P
3	2440.00	-13.79	95.00	81.21	200.00	-118.79	Average	100	299	P
4	2440.00	-13.79	96.09	82.30	200.00	-117.70	Peak	100	299	P
5	2483.50	-13.59	47.95	34.36	54.00	-19.64	Average	100	299	P
6	2483.50	-13.59	60.24	46.65	74.00	-27.35	Peak	100	299	P
7	4880.00	-6.27	43.98	37.71	54.00	-16.29	Average	153	90	P
8	4880.00	-6.27	50.72	44.45	74.00	-29.55	Peak	153	90	P

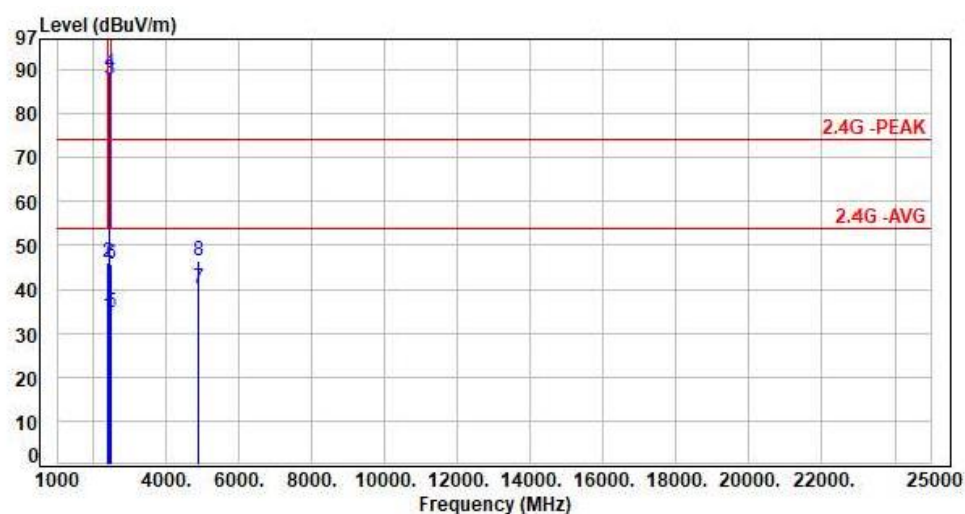
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH19		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.89	33.98	54.00	-20.02	Average	100	169	P
2	2390.00	-13.91	59.85	45.94	74.00	-28.06	Peak	100	169	P
3	2440.00	-13.79	101.58	87.79	200.00	-112.21	Average	100	169	P
4	2440.00	-13.79	103.17	89.38	200.00	-110.62	Peak	100	169	P
5	2483.50	-13.59	48.20	34.61	54.00	-19.39	Average	100	169	P
6	2483.50	-13.59	59.49	45.90	74.00	-28.10	Peak	100	169	P
7	4880.00	-6.27	46.44	40.17	54.00	-13.83	Average	110	61	P
8	4880.00	-6.27	52.77	46.50	74.00	-27.50	Peak	110	61	P

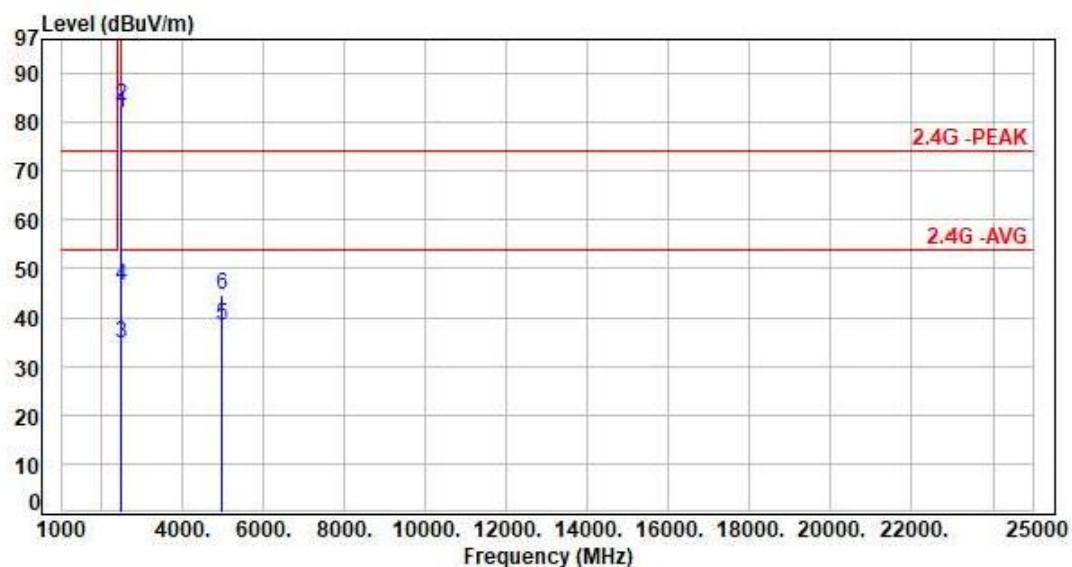
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH39		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	95.57	81.96	200.00	-118.04	Average	100	292	P
2	2480.00	-13.61	96.83	83.22	200.00	-116.78	Peak	100	292	P
3	2483.50	-13.59	48.10	34.51	54.00	-19.49	Average	100	292	P
4	2483.50	-13.59	59.94	46.35	74.00	-27.65	Peak	100	292	P
5	4960.00	-6.03	44.51	38.48	54.00	-15.52	Average	100	92	P
6	4960.00	-6.03	50.81	44.78	74.00	-29.22	Peak	100	92	P

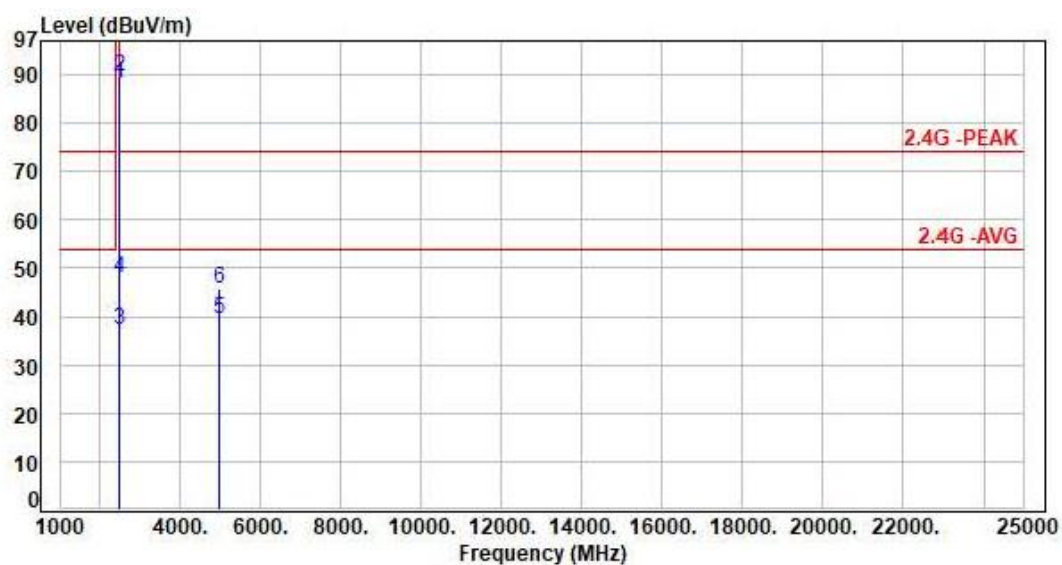
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	101.85	88.24	200.00	-111.76	Average	106	155	P
2	2480.00	-13.61	103.16	89.55	200.00	-110.45	Peak	106	155	P
3	2483.50	-13.59	50.99	37.40	54.00	-16.60	Average	106	155	P
4	2483.50	-13.59	61.53	47.94	74.00	-26.06	Peak	106	155	P
5	4960.00	-6.03	45.64	39.61	54.00	-14.39	Average	100	60	P
6	4960.00	-6.03	51.68	45.65	74.00	-28.35	Peak	100	60	P

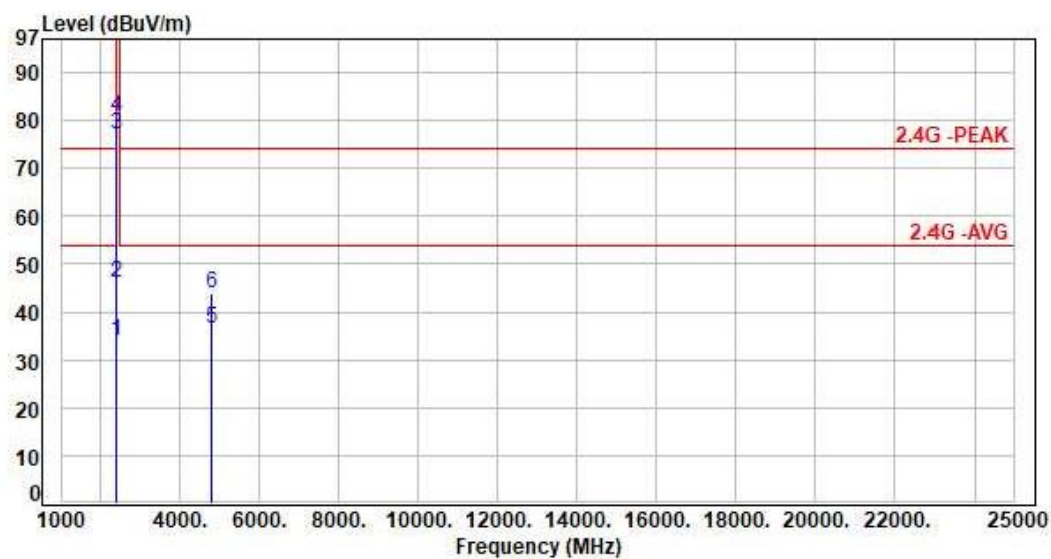
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.84	33.93	54.00	-20.07	Average	100	301	P
2	2390.00	-13.91	60.14	46.23	74.00	-27.77	Peak	100	301	P
3	2402.00	-13.92	91.14	77.22	200.00	-122.78	Average	100	301	P
4	2402.00	-13.92	94.83	80.91	200.00	-119.09	Peak	100	301	P
5	4804.00	-6.60	43.17	36.57	54.00	-17.43	Average	103	86	P
6	4804.00	-6.60	50.47	43.87	74.00	-30.13	Peak	103	86	P

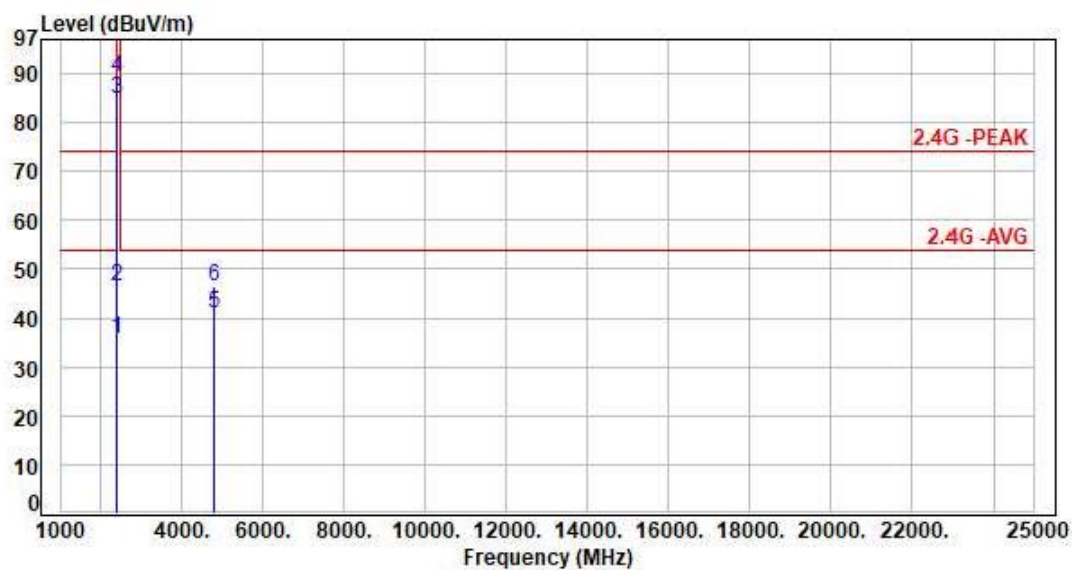
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	49.58	35.67	54.00	-18.33	Average	124	167	P
2	2390.00	-13.91	60.44	46.53	74.00	-27.47	Peak	124	167	P
3	2402.00	-13.92	98.62	84.70	200.00	-115.30	Average	124	167	P
4	2402.00	-13.92	103.28	89.36	200.00	-110.64	Peak	124	167	P
5	4804.00	-6.60	47.56	40.96	54.00	-13.04	Average	100	64	P
6	4804.00	-6.60	52.92	46.32	74.00	-27.68	Peak	100	64	P

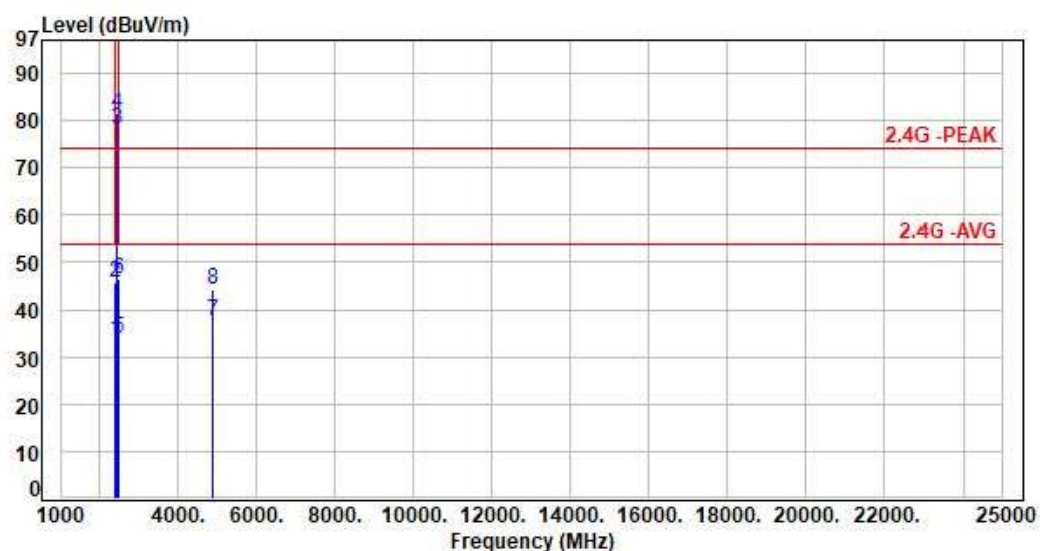
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.38	33.47	54.00	-20.53	Average	100	300	P
2	2390.00	-13.91	59.72	45.81	74.00	-28.19	Peak	100	300	P
3	2440.00	-13.79	92.16	78.37	200.00	-121.63	Average	100	300	P
4	2440.00	-13.79	95.47	81.68	200.00	-118.32	Peak	100	300	P
5	2483.50	-13.59	47.45	33.86	54.00	-20.14	Average	100	300	P
6	2483.50	-13.59	60.07	46.48	74.00	-27.52	Peak	100	300	P
7	4880.00	-6.27	43.86	37.59	54.00	-16.41	Average	127	91	P
8	4880.00	-6.27	50.48	44.21	74.00	-29.79	Peak	127	91	P

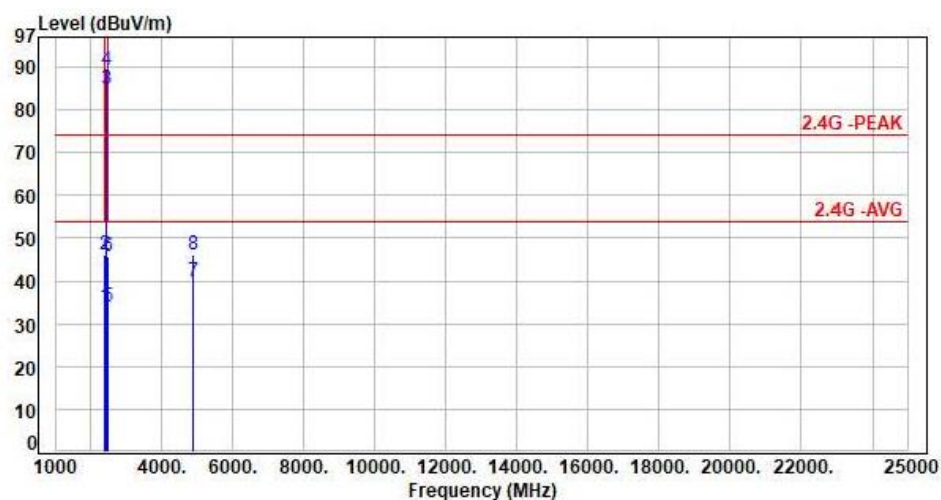
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.95	34.04	54.00	-19.96	Average	100	166	P
2	2390.00	-13.91	59.86	45.95	74.00	-28.05	Peak	100	166	P
3	2440.00	-13.79	98.45	84.66	200.00	-115.34	Average	100	166	P
4	2440.00	-13.79	102.97	89.18	200.00	-110.82	Peak	100	166	P
5	2483.50	-13.59	47.71	34.12	54.00	-19.88	Average	100	166	P
6	2483.50	-13.59	59.49	45.90	74.00	-28.10	Peak	100	166	P
7	4880.00	-6.27	46.22	39.95	54.00	-14.05	Average	107	63	P
8	4880.00	-6.27	52.51	46.24	74.00	-27.76	Peak	107	63	P

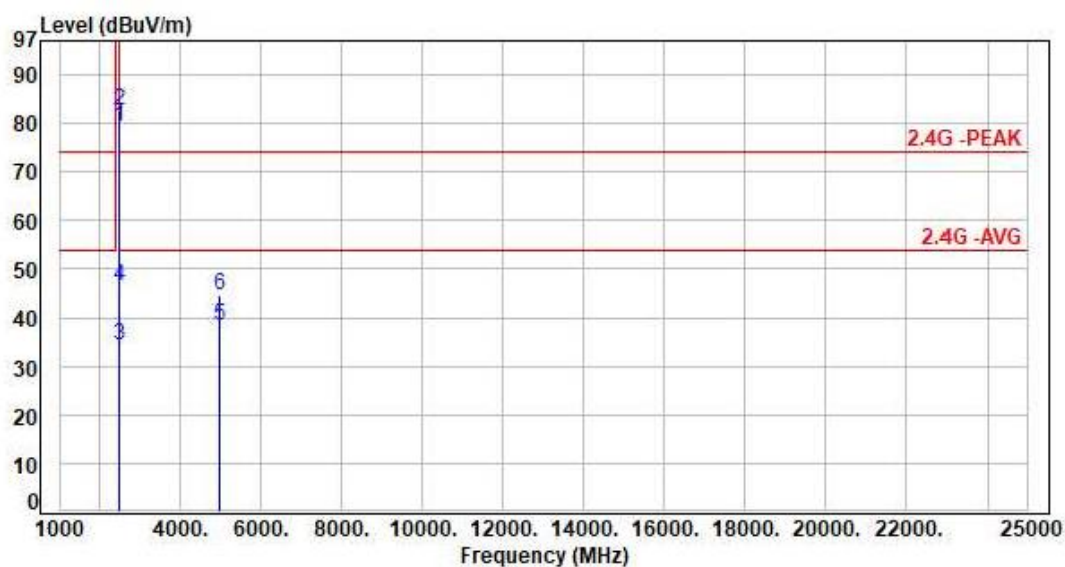
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH39		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	92.82	79.21	200.00	-120.79	Average	100	295	P
2	2480.00	-13.61	96.17	82.56	200.00	-117.44	Peak	100	295	P
3	2483.50	-13.59	47.96	34.37	54.00	-19.63	Average	100	295	P
4	2483.50	-13.59	60.13	46.54	74.00	-27.46	Peak	100	295	P
5	4960.00	-6.03	44.35	38.32	54.00	-15.68	Average	100	89	P
6	4960.00	-6.03	50.63	44.60	74.00	-29.40	Peak	100	89	P

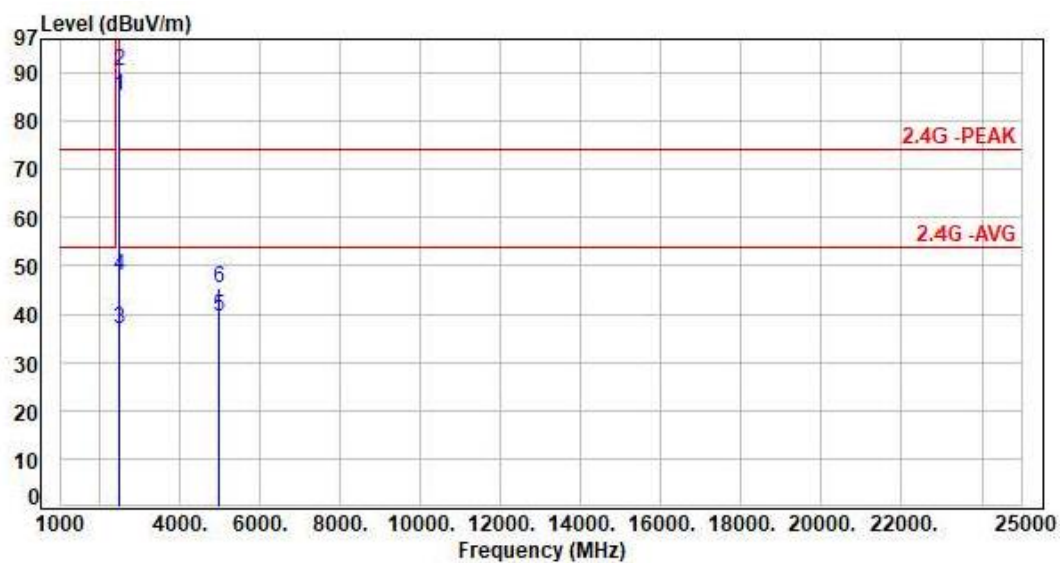
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	98.96	85.35	200.00	-114.65	Average	111	160	P
2	2480.00	-13.61	103.89	90.28	200.00	-109.72	Peak	111	160	P
3	2483.50	-13.59	50.65	37.06	54.00	-16.94	Average	111	160	P
4	2483.50	-13.59	61.48	47.89	74.00	-26.11	Peak	100	160	P
5	4960.00	-6.03	45.37	39.34	54.00	-14.66	Average	100	64	P
6	4960.00	-6.03	51.41	45.38	74.00	-28.62	Peak	100	64	P

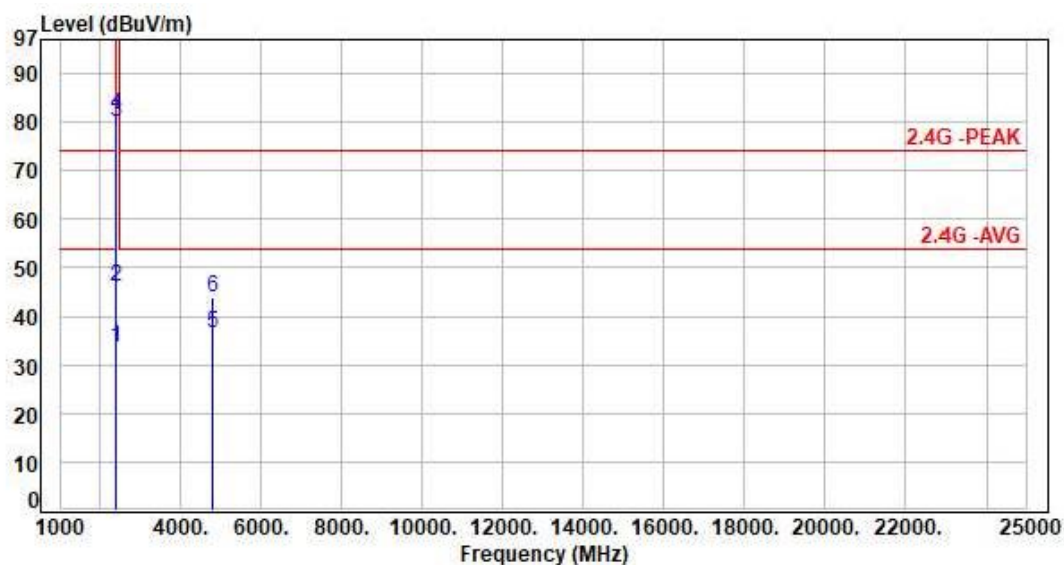
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.36	33.45	54.00	-20.55	Average	100	298	P
2	2390.00	-13.91	59.85	45.94	74.00	-28.06	Peak	100	298	P
3	2402.00	-13.92	93.82	79.90	200.00	-120.10	Average	100	298	P
4	2402.00	-13.92	95.26	81.34	200.00	-118.66	Peak	100	298	P
5	4804.00	-6.60	43.28	36.68	54.00	-17.32	Average	100	96	P
6	4804.00	-6.60	50.52	43.92	74.00	-30.08	Peak	100	96	P

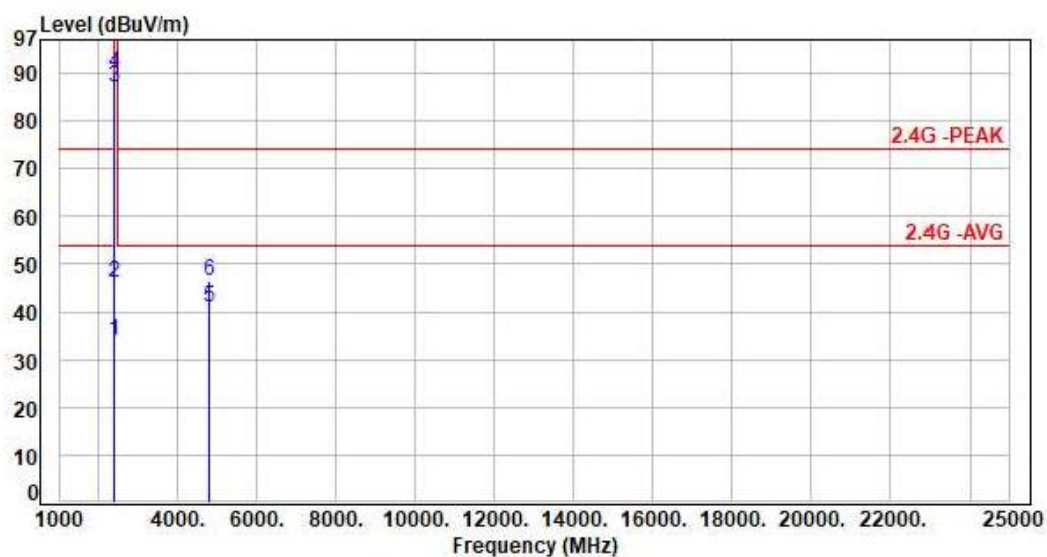
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.93	34.02	54.00	-19.98	Average	113	166	P
2	2390.00	-13.91	59.84	45.93	74.00	-28.07	Peak	113	166	P
3	2402.00	-13.92	100.93	87.01	200.00	-112.99	Average	113	166	P
4	2402.00	-13.92	103.84	89.92	200.00	-110.08	Peak	113	166	P
5	4804.00	-6.60	47.67	41.07	54.00	-12.93	Average	100	83	P
6	4804.00	-6.60	53.15	46.55	74.00	-27.45	Peak	100	83	P

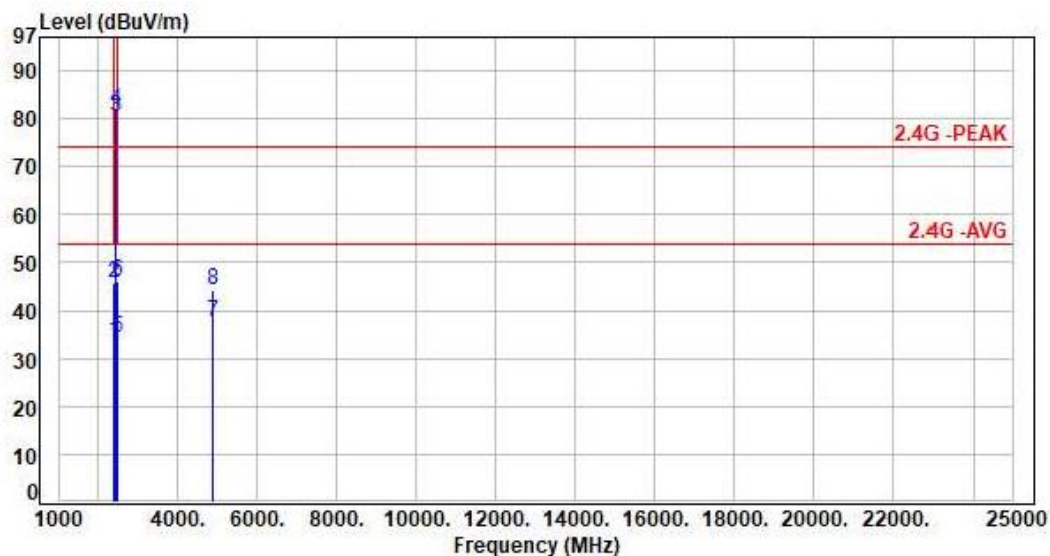
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.42	33.51	54.00	-20.49	Average	100	302	P
2	2390.00	-13.91	59.61	45.70	74.00	-28.30	Peak	100	302	P
3	2440.00	-13.79	94.04	80.25	200.00	-119.75	Average	100	302	P
4	2440.00	-13.79	95.51	81.72	200.00	-118.28	Peak	100	302	P
5	2483.50	-13.59	47.79	34.20	54.00	-19.80	Average	100	302	P
6	2483.50	-13.59	59.52	45.93	74.00	-28.07	Peak	100	302	P
7	4880.00	-6.27	43.88	37.61	54.00	-16.39	Average	142	93	P
8	4880.00	-6.27	50.46	44.19	74.00	-29.81	Peak	142	93	P

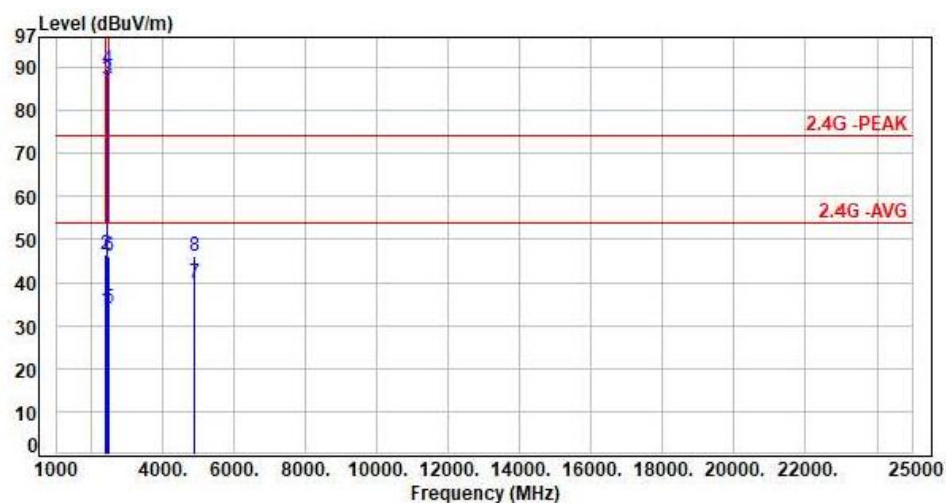
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.62	33.71	54.00	-20.29	Average	100	164	P
2	2390.00	-13.91	60.24	46.33	74.00	-27.67	Peak	100	164	P
3	2440.00	-13.79	100.66	86.87	200.00	-113.13	Average	100	164	P
4	2440.00	-13.79	103.40	89.61	200.00	-110.39	Peak	100	164	P
5	2483.50	-13.59	47.58	33.99	54.00	-20.01	Average	100	164	P
6	2483.50	-13.59	59.88	46.29	74.00	-27.71	Peak	100	164	P
7	4880.00	-6.27	46.15	39.88	54.00	-14.12	Average	108	64	P
8	4880.00	-6.27	52.55	46.28	74.00	-27.72	Peak	108	64	P

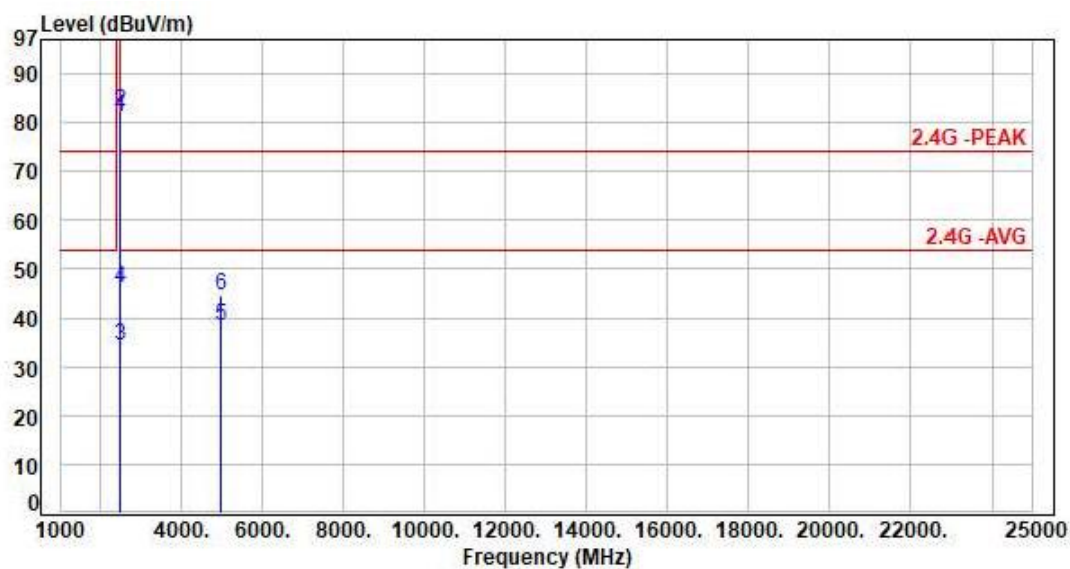
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH39		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	94.68	81.07	200.00	-118.93	Average	100	295	P
2	2480.00	-13.61	95.96	82.35	200.00	-117.65	Peak	100	295	P
3	2483.50	-13.59	47.99	34.40	54.00	-19.60	Average	100	295	P
4	2483.50	-13.59	59.86	46.27	74.00	-27.73	Peak	100	295	P
5	4960.00	-6.03	44.28	38.25	54.00	-15.75	Average	100	90	P
6	4960.00	-6.03	50.72	44.69	74.00	-29.31	Peak	100	90	P

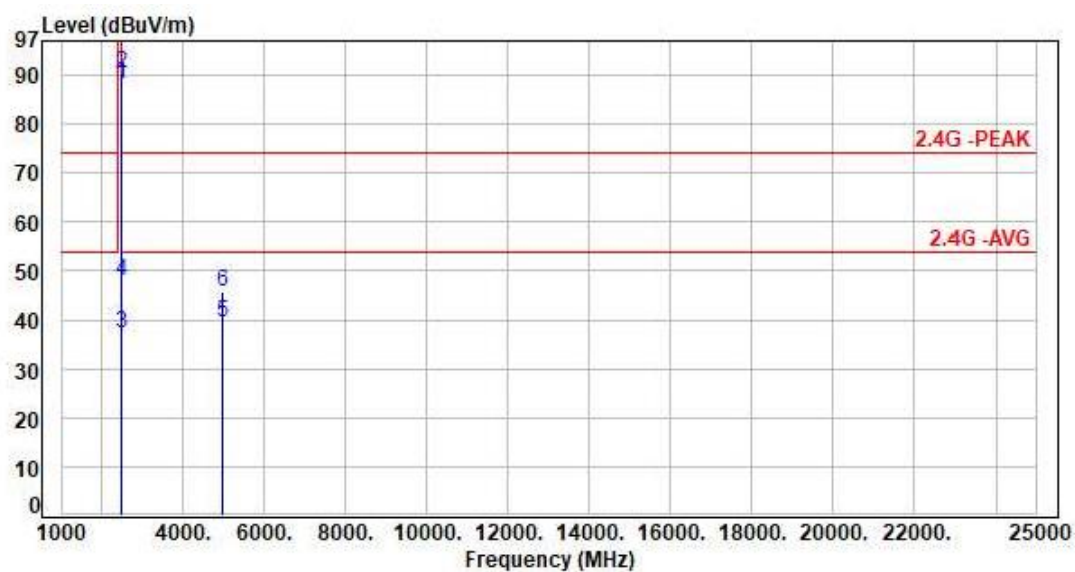
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	101.85	88.24	200.00	-111.76	Average	106	155	P
2	2480.00	-13.61	104.05	90.44	200.00	-109.56	Peak	106	155	P
3	2483.50	-13.59	50.99	37.40	54.00	-16.60	Average	106	155	P
4	2483.50	-13.59	61.53	47.94	74.00	-26.06	Peak	106	155	P
5	4960.00	-6.03	45.64	39.61	54.00	-14.39	Average	100	60	P
6	4960.00	-6.03	51.68	45.65	74.00	-28.35	Peak	100	60	P

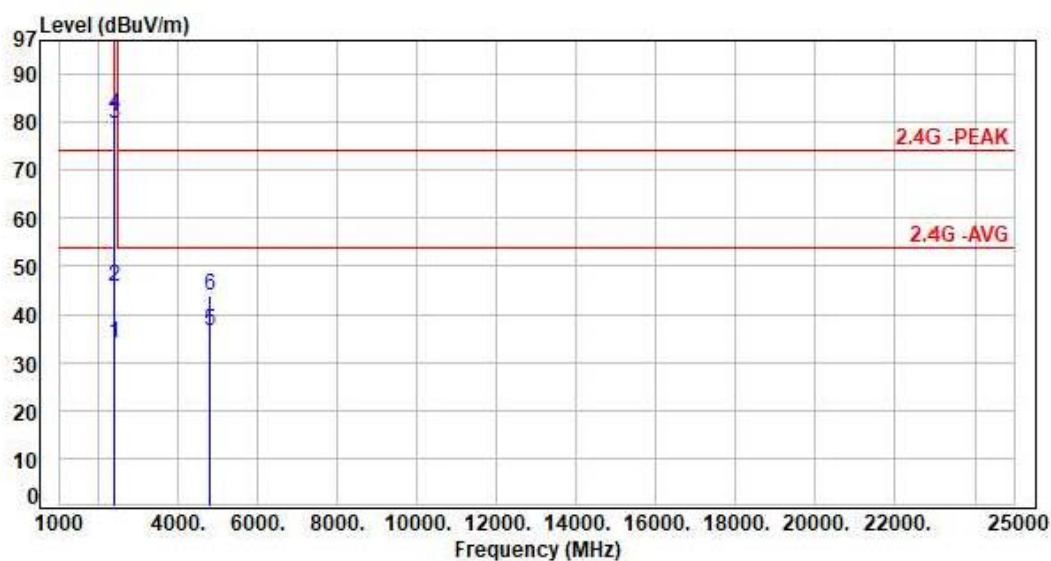
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH00		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.76	33.85	54.00	-20.15	Average	100	301	P
2	2390.00	-13.91	59.53	45.62	74.00	-28.38	Peak	100	301	P
3	2402.00	-13.92	93.76	79.84	200.00	-120.16	Average	100	301	P
4	2402.00	-13.92	95.31	81.39	200.00	-118.61	Peak	100	301	P
5	4804.00	-6.60	43.23	36.63	54.00	-17.37	Average	100	95	P
6	4804.00	-6.60	50.47	43.87	74.00	-30.13	Peak	100	95	P

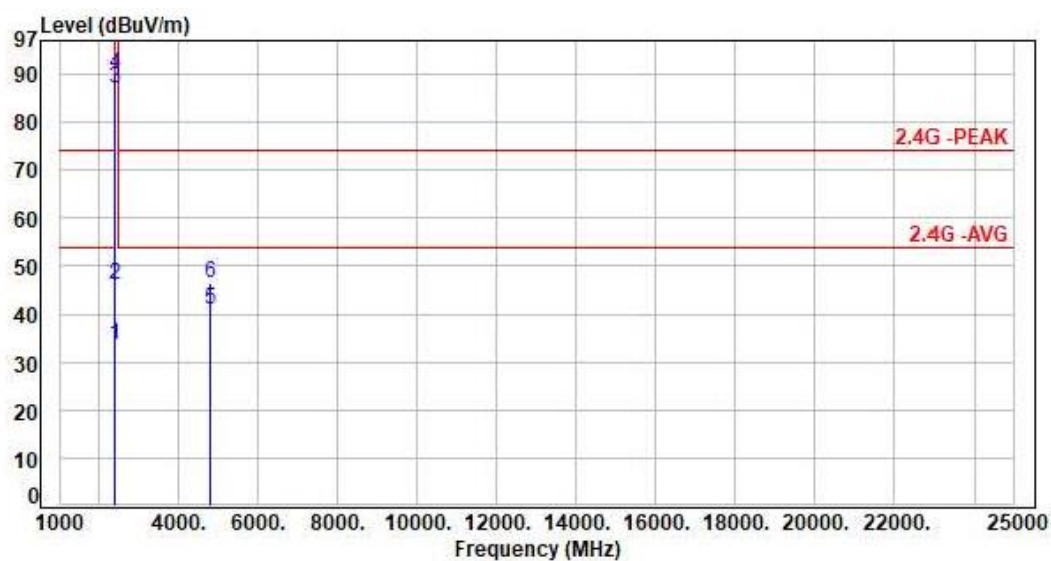
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.38	33.47	54.00	-20.53	Average	116	163	P
2	2390.00	-13.91	59.92	46.01	74.00	-27.99	Peak	116	163	P
3	2402.00	-13.92	101.12	87.20	200.00	-112.80	Average	116	163	P
4	2402.00	-13.92	103.81	89.89	200.00	-110.11	Peak	116	163	P
5	4804.00	-6.60	47.62	41.02	54.00	-12.98	Average	100	85	P
6	4804.00	-6.60	53.23	46.63	74.00	-27.37	Peak	100	85	P

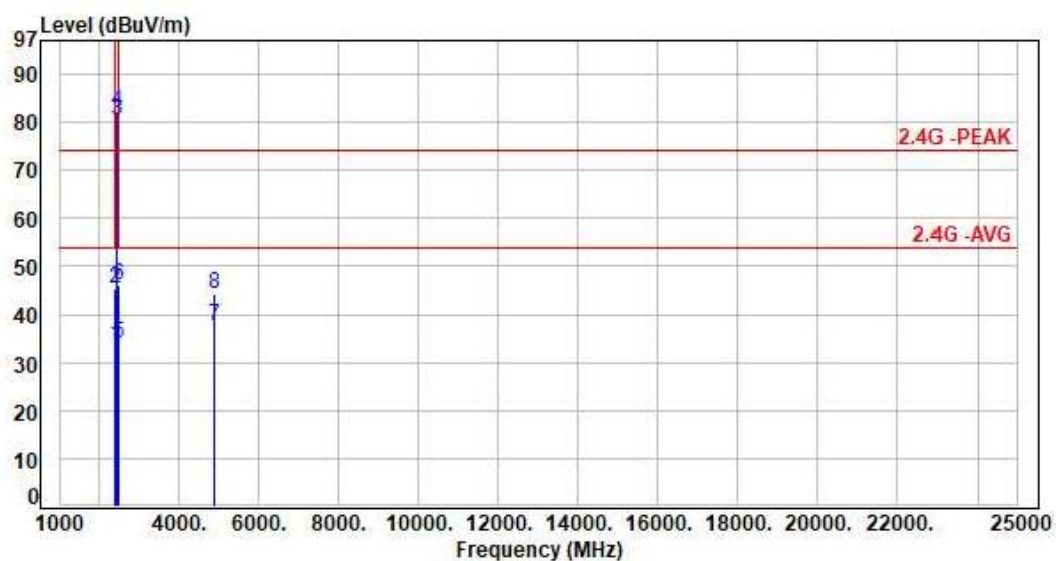
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.64	33.73	54.00	-20.27	Average	100	300	P
2	2390.00	-13.91	59.46	45.55	74.00	-28.45	Peak	100	300	P
3	2440.00	-13.79	94.12	80.33	200.00	-119.67	Average	100	300	P
4	2440.00	-13.79	95.99	82.20	200.00	-117.80	Peak	100	300	P
5	2483.50	-13.59	47.48	33.89	54.00	-20.11	Average	100	300	P
6	2483.50	-13.59	59.61	46.02	74.00	-27.98	Peak	100	300	P
7	4880.00	-6.27	43.79	37.52	54.00	-16.48	Average	138	92	P
8	4880.00	-6.27	50.41	44.14	74.00	-29.86	Peak	138	92	P

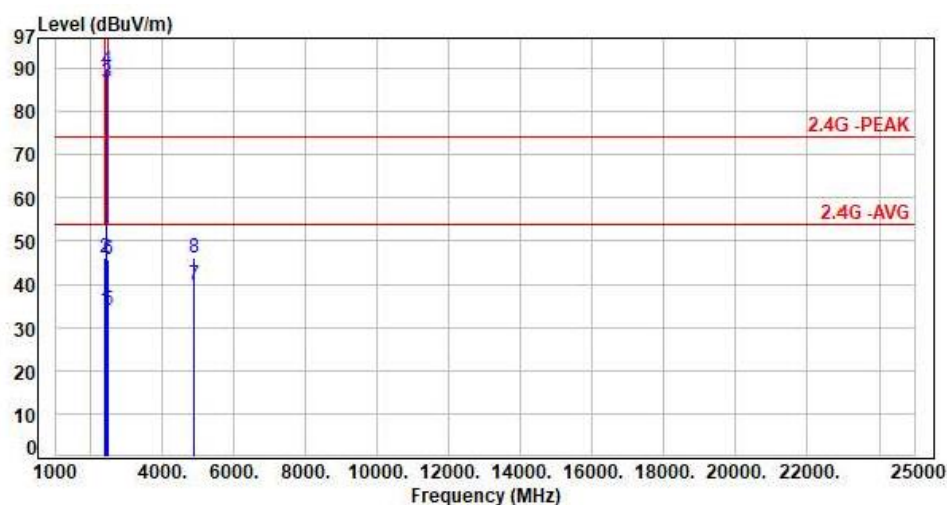
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH19		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-13.91	47.98	34.07	54.00	-19.93	Average	100	162	P
2	2390.00	-13.91	59.84	45.93	74.00	-28.07	Peak	100	162	P
3	2440.00	-13.79	100.61	86.82	200.00	-113.18	Average	100	162	P
4	2440.00	-13.79	103.42	89.63	200.00	-110.37	Peak	100	162	P
5	2483.50	-13.59	47.44	33.85	54.00	-20.15	Average	100	162	P
6	2483.50	-13.59	59.16	45.57	74.00	-28.43	Peak	100	162	P
7	4880.00	-6.27	45.96	39.69	54.00	-14.31	Average	110	65	P
8	4880.00	-6.27	52.28	46.01	74.00	-27.99	Peak	110	65	P

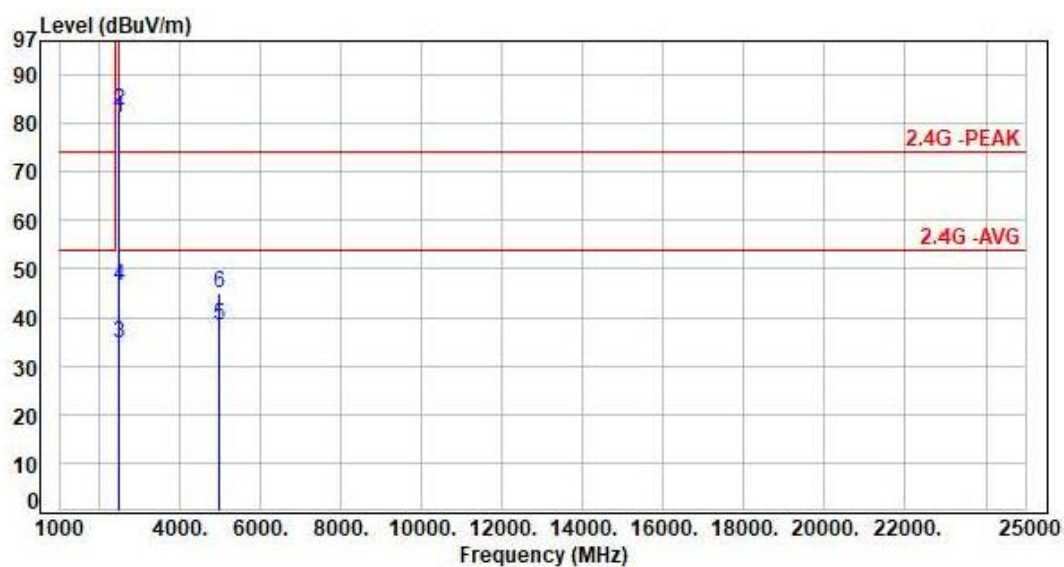
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH39		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	94.72	81.11	200.00	-118.89	Average	100	299	P
2	2480.00	-13.61	96.34	82.73	200.00	-117.27	Peak	100	299	P
3	2483.50	-13.59	48.17	34.58	54.00	-19.42	Average	100	299	P
4	2483.50	-13.59	60.08	46.49	74.00	-27.51	Peak	100	299	P
5	4960.00	-6.03	44.41	38.38	54.00	-15.62	Average	105	92	P
6	4960.00	-6.03	50.90	44.87	74.00	-29.13	Peak	105	92	P

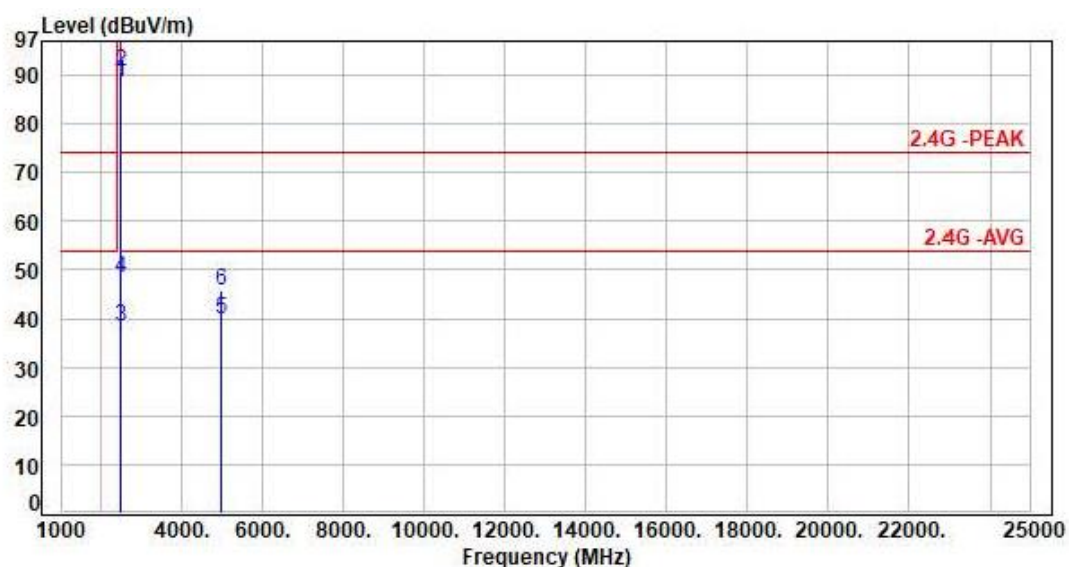
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH39		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2480.00	-13.61	102.13	88.52	200.00	-111.48	Average	112	163	P
2	2480.00	-13.61	104.50	90.89	200.00	-109.11	Peak	112	163	P
3	2483.50	-13.59	51.94	38.35	54.00	-15.65	Average	112	163	P
4	2483.50	-13.59	61.79	48.20	74.00	-25.80	Peak	112	163	P
5	4960.00	-6.03	45.71	39.68	54.00	-14.32	Average	100	62	P
6	4960.00	-6.03	51.76	45.73	74.00	-28.27	Peak	100	62	P

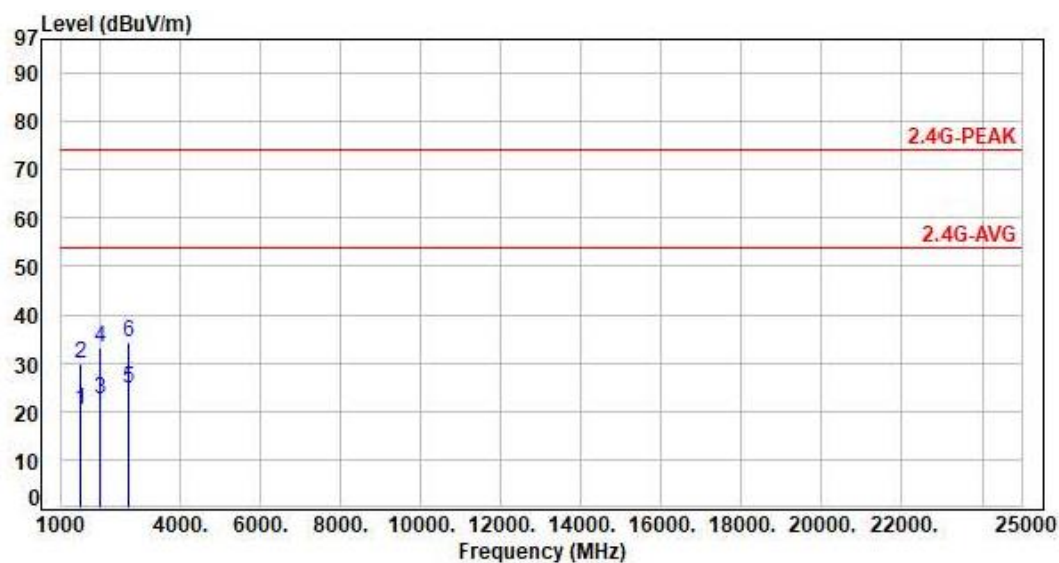
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1500.00	-17.96	38.20	20.24	54.00	-33.76	Average	100	264	P
2	1500.00	-17.96	47.86	29.90	74.00	-44.10	Peak	100	264	P
3	2000.00	-15.17	37.69	22.52	54.00	-31.48	Average	100	124	P
4	2000.00	-15.17	48.21	33.04	74.00	-40.96	Peak	100	124	P
5	2700.00	-12.93	37.58	24.65	54.00	-29.35	Average	100	197	P
6	2700.00	-12.93	47.35	34.42	74.00	-39.58	Peak	100	197	P

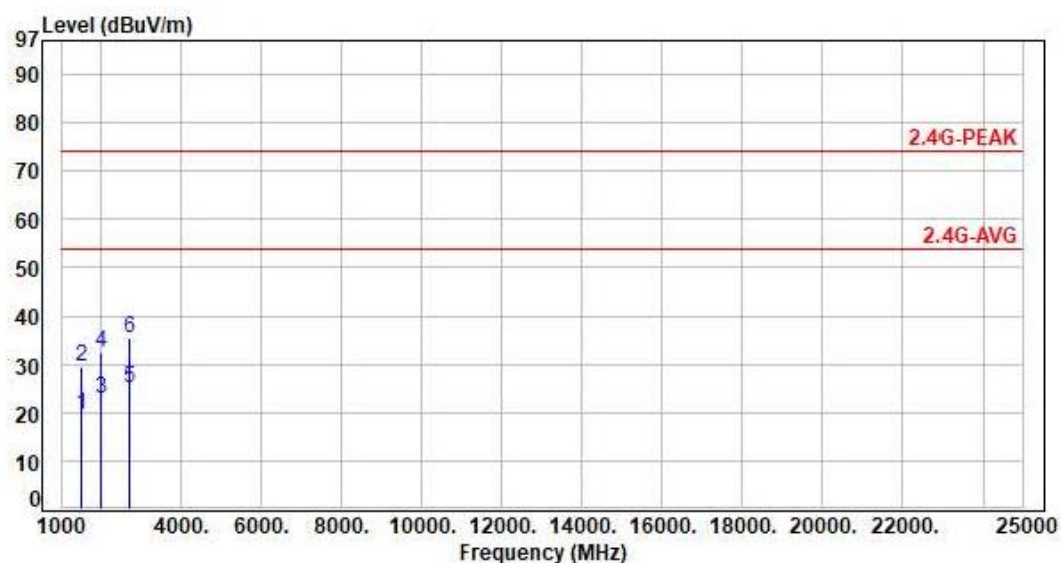
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH00		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1500.00	-17.96	37.58	19.62	54.00	-34.38	Average	100	251	P
2	1500.00	-17.96	47.54	29.58	74.00	-44.42	Peak	100	251	P
3	2000.00	-15.17	37.98	22.81	54.00	-31.19	Average	100	159	P
4	2000.00	-15.17	47.68	32.51	74.00	-41.49	Peak	100	159	P
5	2700.00	-12.93	37.96	25.03	54.00	-28.97	Average	100	335	P
6	2700.00	-12.93	48.22	35.29	74.00	-38.71	Peak	100	335	P

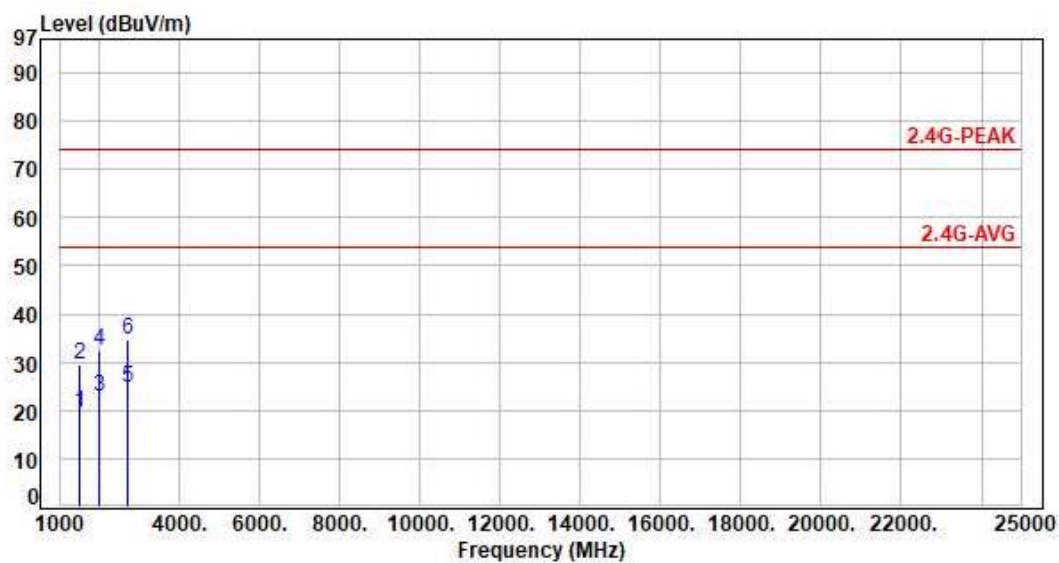
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, CH19		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1500.00	-17.96	37.68	19.72	54.00	-34.28	Average	100	266	P
2	1500.00	-17.96	47.57	29.61	74.00	-44.39	Peak	100	266	P
3	2000.00	-15.17	37.92	22.75	54.00	-31.25	Average	100	127	P
4	2000.00	-15.17	47.53	32.36	74.00	-41.64	Peak	100	127	P
5	2700.00	-12.93	37.72	24.79	54.00	-29.21	Average	100	200	P
6	2700.00	-12.93	47.58	34.65	74.00	-39.35	Peak	100	200	P

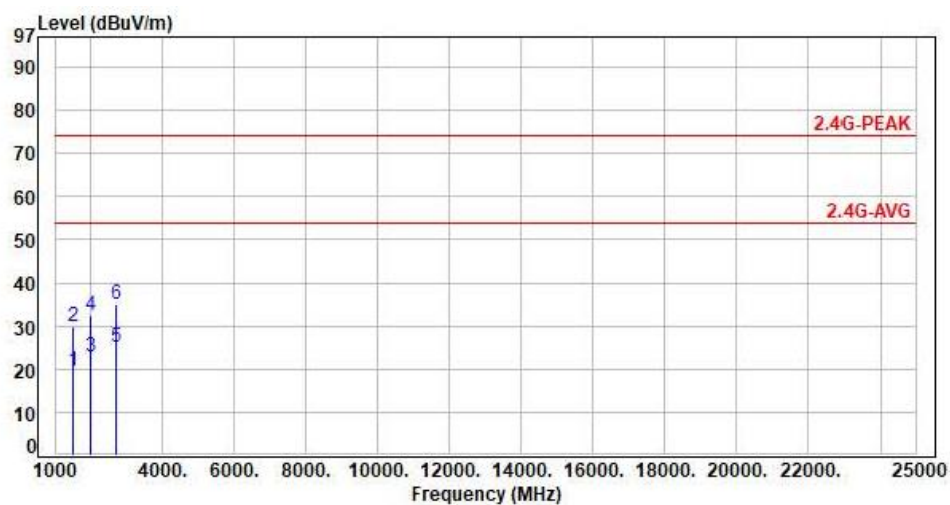
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 3.7V	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH19		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1500.00	-17.96	37.49	19.53	54.00	-34.47	Average	100	249	P
2	1500.00	-17.96	47.86	29.90	74.00	-44.10	Peak	100	249	P
3	2000.00	-15.17	37.86	22.69	54.00	-31.31	Average	100	148	P
4	2000.00	-15.17	47.51	32.34	74.00	-41.66	Peak	100	148	P
5	2700.00	-12.93	37.84	24.91	54.00	-29.09	Average	100	331	P
6	2700.00	-12.93	47.89	34.96	74.00	-39.04	Peak	100	331	P

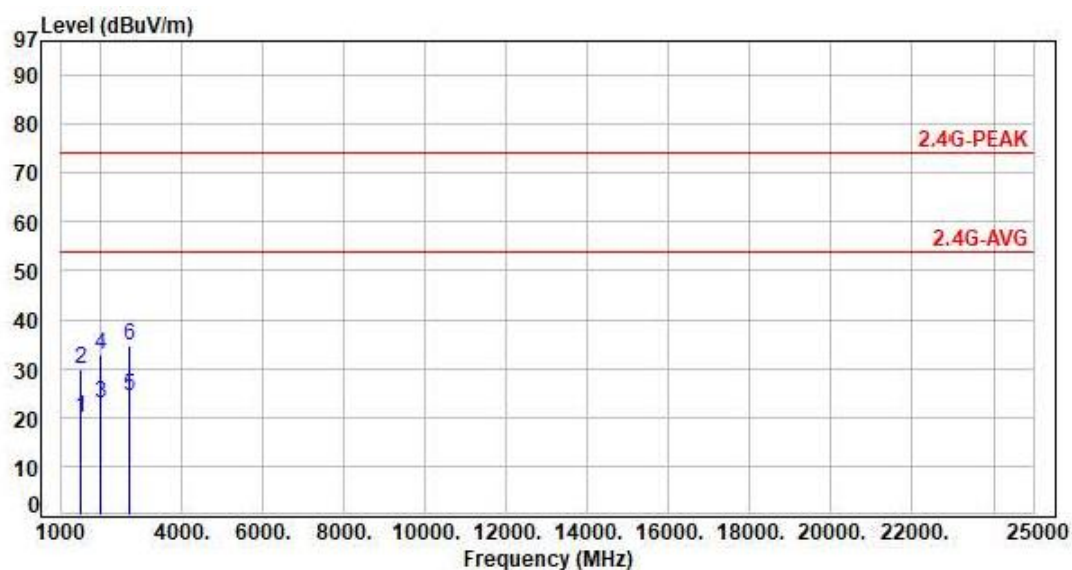
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, CH39		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1500.00	-17.96	37.76	19.80	54.00	-34.20	Average	100	263	P
2	1500.00	-17.96	47.98	30.02	74.00	-43.98	Peak	100	263	P
3	2000.00	-15.17	38.11	22.94	54.00	-31.06	Average	100	127	P
4	2000.00	-15.17	47.96	32.79	74.00	-41.21	Peak	100	127	P
5	2700.00	-12.93	37.39	24.46	54.00	-29.54	Average	100	193	P
6	2700.00	-12.93	47.49	34.56	74.00	-39.44	Peak	100	193	P

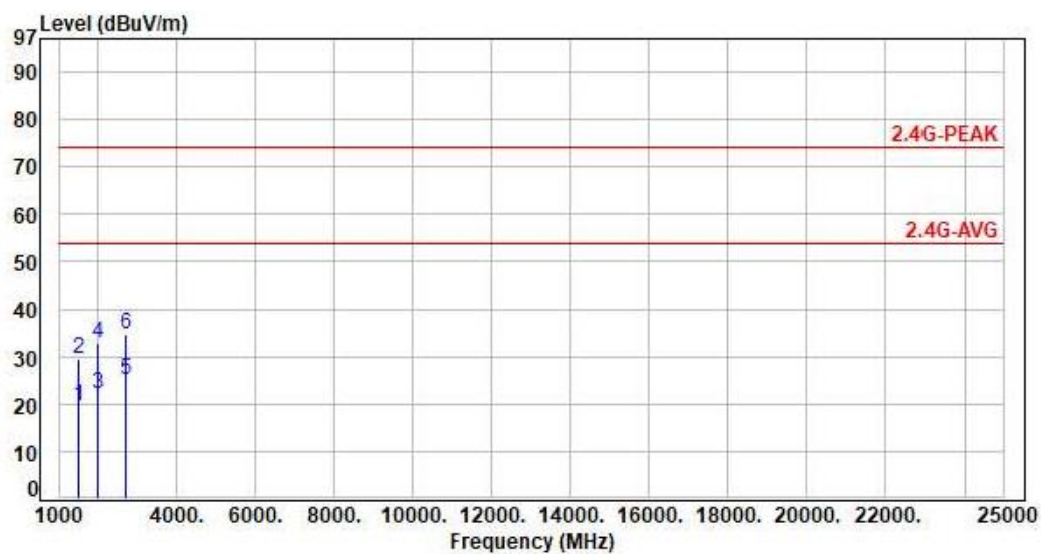
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, CH39		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1500.00	-17.96	37.62	19.66	54.00	-34.34	Average	100	253	P
2	1500.00	-17.96	47.60	29.64	74.00	-44.36	Peak	100	253	P
3	2000.00	-15.17	37.46	22.29	54.00	-31.71	Average	100	164	P
4	2000.00	-15.17	47.91	32.74	74.00	-41.26	Peak	100	164	P
5	2700.00	-12.93	38.03	25.10	54.00	-28.90	Average	100	342	P
6	2700.00	-12.93	47.68	34.75	74.00	-39.25	Peak	100	342	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6. On Time, Duty Cycle and Measurement methods

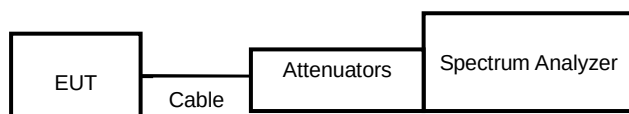
6.1. 適用標準

None; for reporting purposes only.

6.2. 測試方法

ANSI 63.10 第11.6節 Duty cycle zero-span mode Method.

6.3. 測試配置



6.4. 測試結果及數據

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
GFSK(1Mbps)	0.39	0.63	62.45%
GFSK(2Mbps)	0.21	0.63	33.63%
GFSK(125Kbps)	3.10	3.74	82.91%
GFSK(500Kbps)	3.10	3.74	82.91%

備註：繪圖資料請參考下頁。



Modulation Type: GFSK(1Mbps)



Modulation Type: GFSK(500Kbps)



Modulation Type: GFSK(2Mbps)



Modulation Type: GFSK(125Kbps)





7. 6dB 頻寬之規定

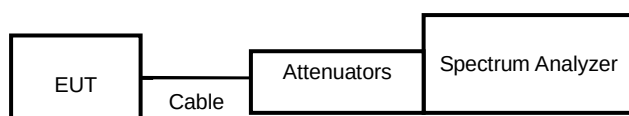
7.1. 適用標準

對使用數位調變技術之低功率發射機，依據國家通訊傳播委員會低功率射頻器材技術規範 4.10.1.6 節之(2)(A)規定，6dB 頻寬至少應有 500 kHz。

7.2. 測試方法

- 將待測物和儀器相連接。
- 設定儀器解析頻寬 100KHz 和視訊頻寬為 300KHz。
- 量測峰值減去 6 dB 之頻寬並記錄於報告中。

7.3. 測試配置





7.4. 6dB 頻寬之測試結果及數據

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (KHz)	Limit (KHz)
GFSK(1Mbps)	0	2402	666.00	500
	19	2440	666.00	500
	39	2480	672.00	500

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (KHz)	Limit (KHz)
GFSK(2Mbps)	0	2402	1149.00	500
	19	2440	1149.00	500
	39	2480	1149.00	500

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (KHz)	Limit (KHz)
GFSK(125Kbps)	0	2402	597.00	500
	19	2440	594.00	500
	39	2480	597.00	500

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (KHz)	Limit (KHz)
GFSK(500Kbps)	0	2402	594.00	500
	19	2440	600.00	500
	39	2480	597.00	500

備註：繪圖資料請參考下頁。

7.5. 結果判定

高、中、低頻段的 6dB 頻寬皆大於 500 KHz，合乎標準規定。

Modulation Type: GFSK(1Mbps)
CH00Modulation Type: GFSK(2Mbps)
CH00Modulation Type: GFSK(1Mbps)
CH19Modulation Type: GFSK(2Mbps)
CH19Modulation Type: GFSK(1Mbps)
CH39Modulation Type: GFSK(2Mbps)
CH39

Modulation Type: GFSK(125Kbps)
CH00Modulation Type: GFSK(500Kbps)
CH00Modulation Type: GFSK(125Kbps)
CH19Modulation Type: GFSK(500Kbps)
CH19Modulation Type: GFSK(125Kbps)
CH39Modulation Type: GFSK(500Kbps)
CH39



8. 最大傳導輸出功率之規定

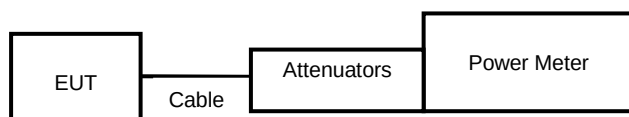
8.1. 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範 4.10.1.2 節(1)(C)之規定，對使用數位調變技術之低功率發射機，其輸出功率不得大於 1 Watt，且其所使用天線之增益不可大於 6dBi，若使用大於 6dBi 增益之天線，則其輸出功率相對需衰減天線增益所增加之量(單位為 dB)。放寬之條件請參考天線增益之要求。

8.2. 測試方法

- a. 將待測物和儀器相連接。
- b. 量測輸出功率並記錄於報告中。

8.3. 測試配置





8.4. 輸出功率之測試結果及數據

BT5(1M bps)

Power Set	Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)	Power Output (mW)
				Average	Average
Default	GFSK	0	2402	-0.42	0.908
Default		19	2440	0.53	1.130
Default		39	2480	1.17	1.309

BT5(2M bps)

Power Set	Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)	Power Output (mW)
				Average	Average
Default	GFSK	0	2402	-0.38	0.916
Default		19	2440	0.56	1.138
Default		39	2480	1.21	1.321

BT5(125K bps)

Power Set	Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)	Power Output (mW)
				Average	Average
Default	GFSK	0	2402	-0.51	0.889
Default		19	2440	0.38	1.091
Default		39	2480	0.98	1.253

BT5(500K bps)

Power Set	Modulation Type	Channel	Frequency (MHz)	Power Output (dBm)	Power Output (mW)
				Average	Average
Default	GFSK	0	2402	-0.52	0.887
Default		19	2440	0.37	1.089
Default		39	2480	0.97	1.250

8.5. 結果判定

高、中、低頻段的最大傳導輸出功率皆低於 30 dBm，合乎標準規定。



9. 混附波發射限制之規定

9.1. 適用方法

依據國家通訊傳播委員會低功率射頻器材技術規範 4.10.1.5 節之規定，使用頻帶範圍外之任意 100 千赫(kHz)內，發射器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 千赫(kHz)內的射頻功率，其衰減值限制如下：

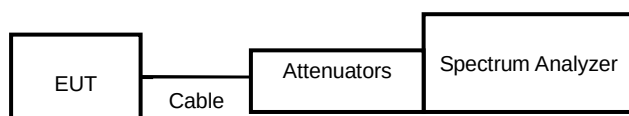
- (1) 輸出功率以峰值輸出功率方式量測者，至少需衰減 20dB，可使用射頻傳導或輻射方式測量。
- (2) 輸出功率以 4.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少需衰減 30dB，可使用射頻傳導或輻射方式測量。

此外，落於第 3.5 節禁用頻段之輻射發射，應符合第 3.6 節之規定。

9.2. 測試方法

1. 將待測物和儀器相連接。
2. 設定儀器解析頻寬為 100 kHz 和視訊頻寬為 300 kHz。
3. 將頻寬展開至 100 MHz。
4. 量測並記錄於報告中。

9.3. 測試配置

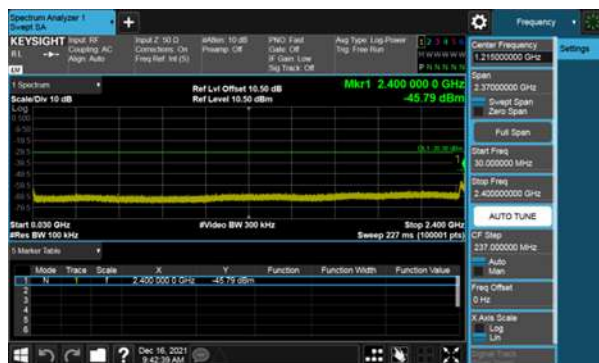
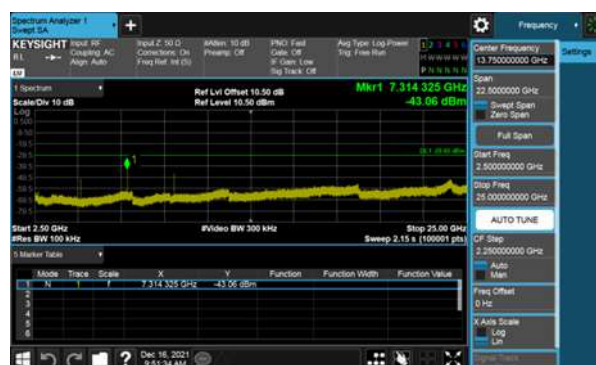
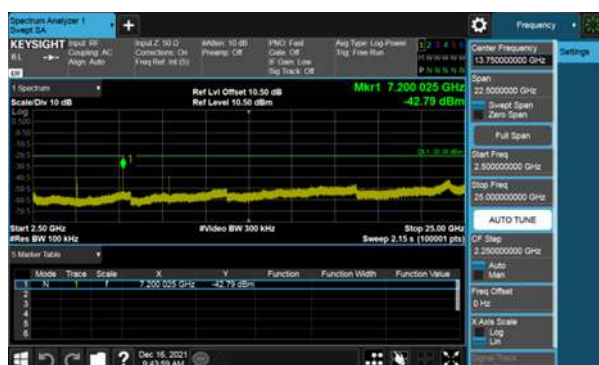
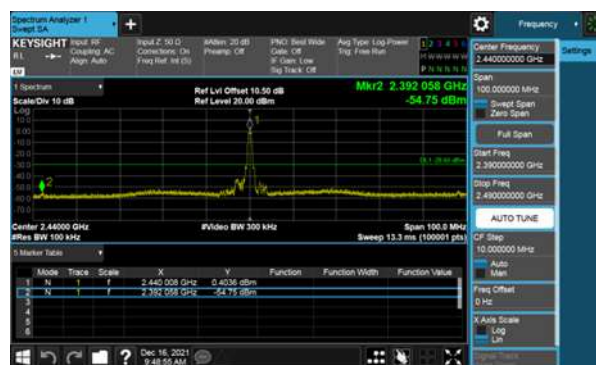
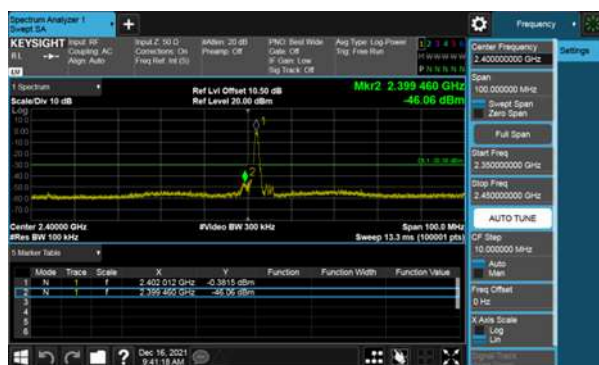
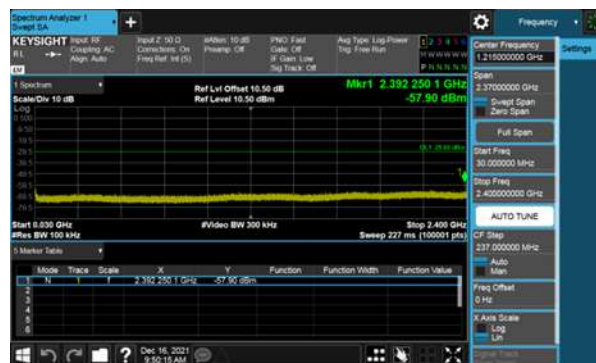


9.4. 結果判定

7.6.1 下邊緣頻帶：距下頻帶邊緣 40MHz 內最大混附波比主波低 30dB 以上，合乎標準規定。

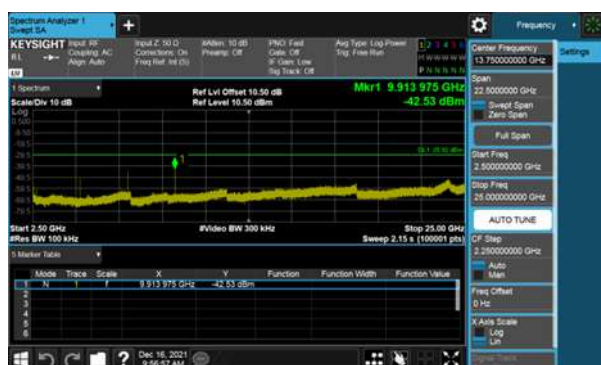
7.6.2 上邊緣頻帶：距上頻帶邊緣 40MHz 內最大混附波比主波低 30dB 以上，合乎標準規定。

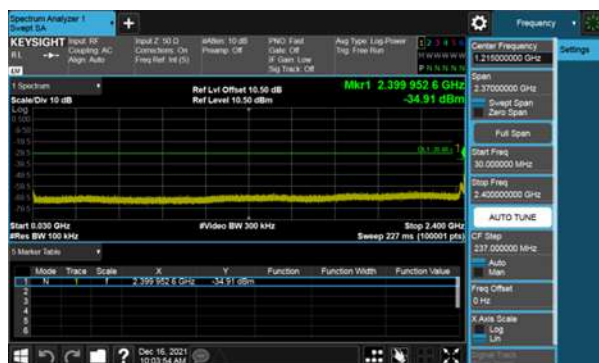
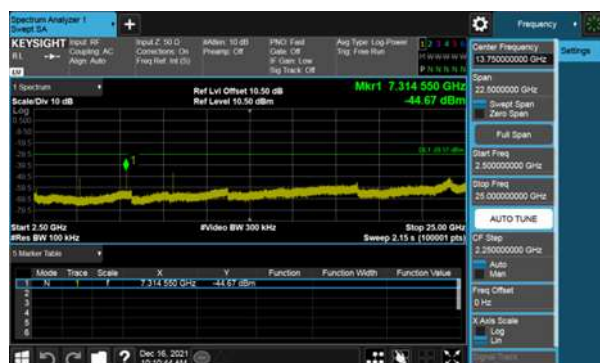
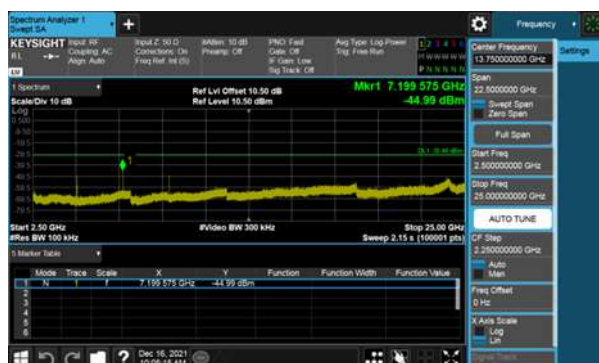
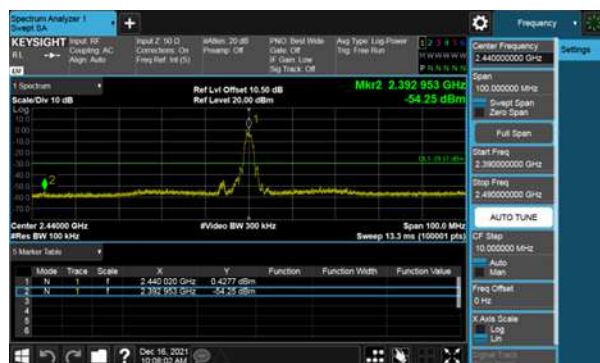
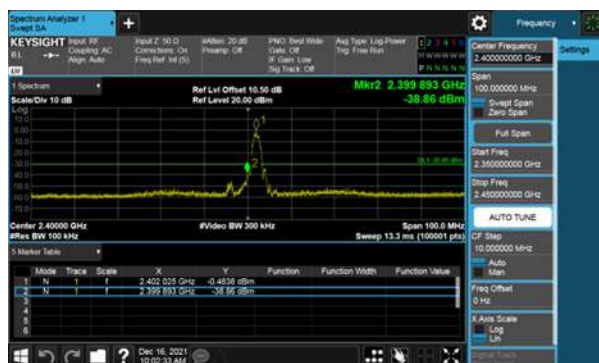
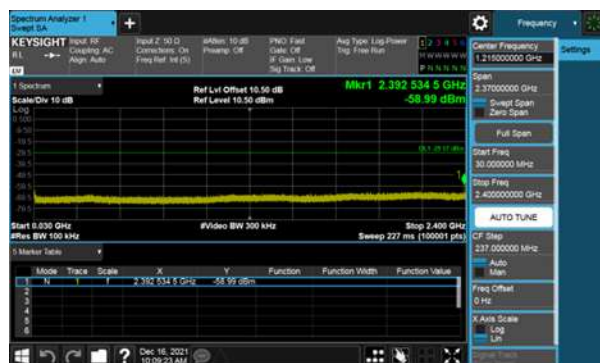
備註：繪圖資料請參考下頁。

Modulation Type: GFSK(1Mbps)
CH00Modulation Type: GFSK(1Mbps)
CH19



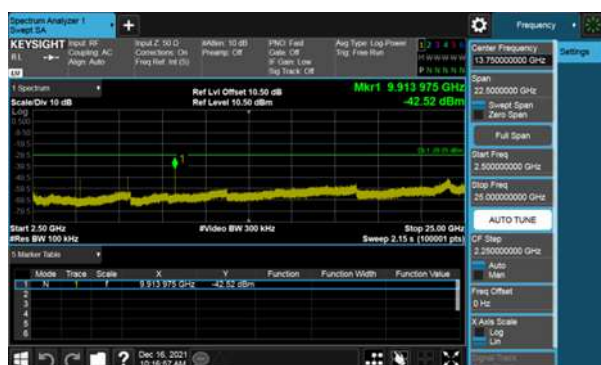
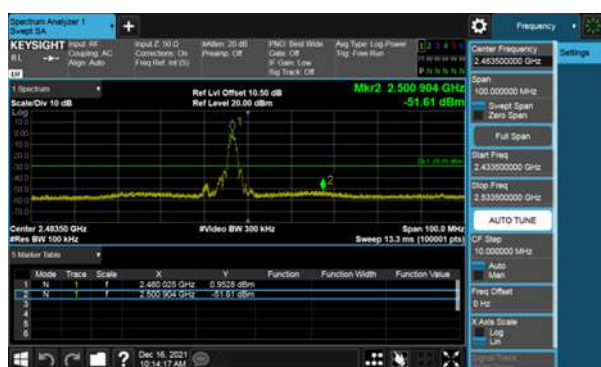
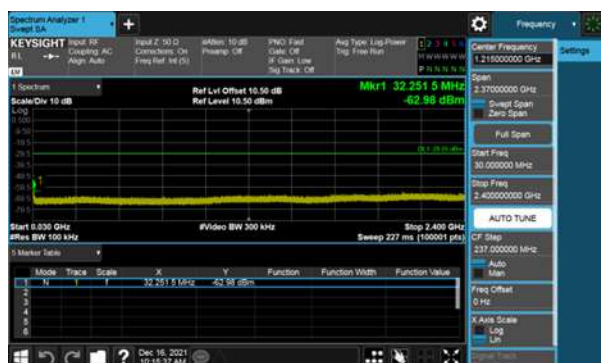
Modulation Type: GFSK(1Mbps) CH39

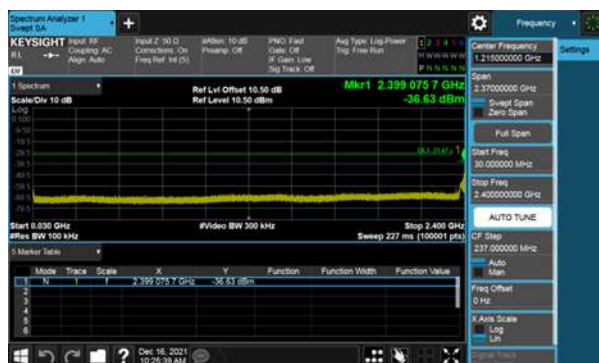
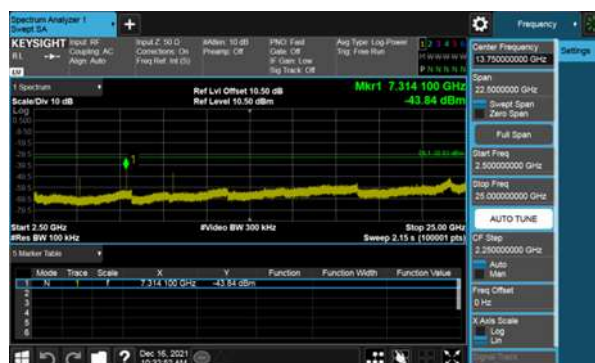
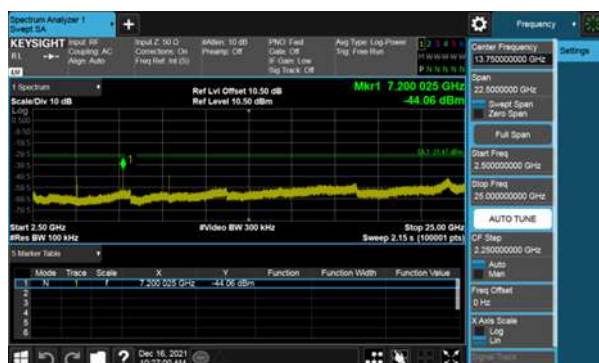
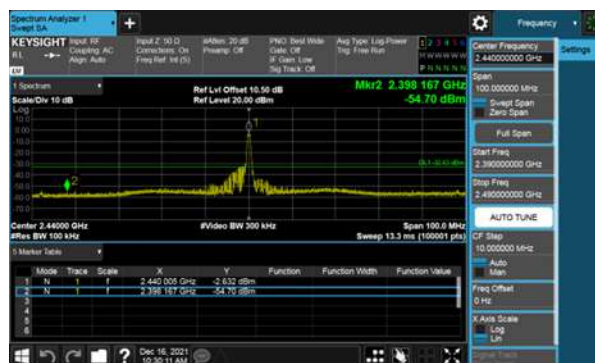
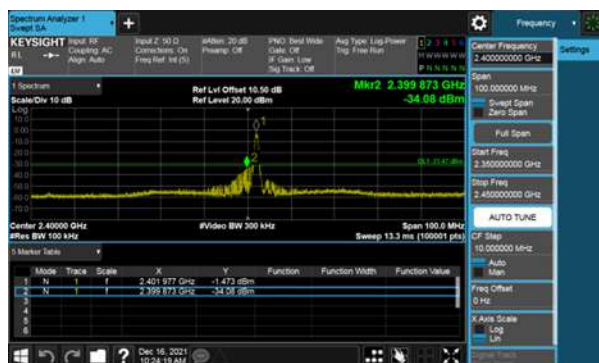
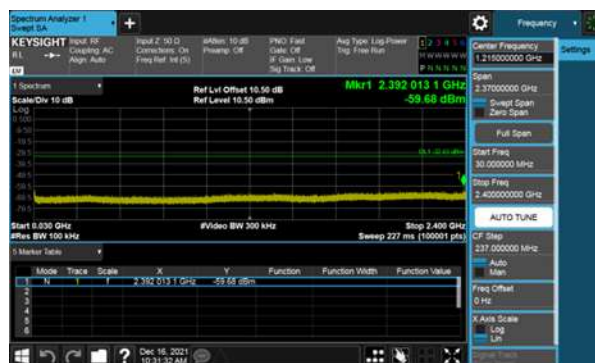


Modulation Type: GFSK(2Mbps)
CH00Modulation Type: GFSK(2Mbps)
CH19



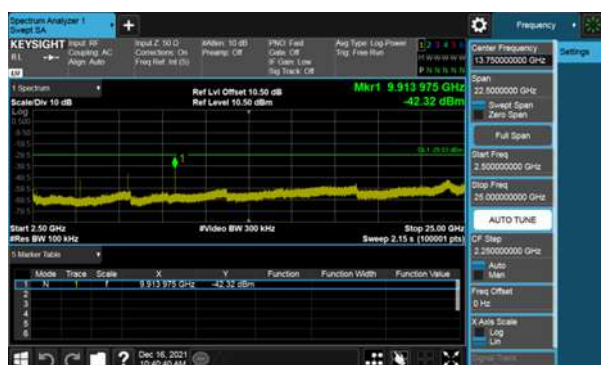
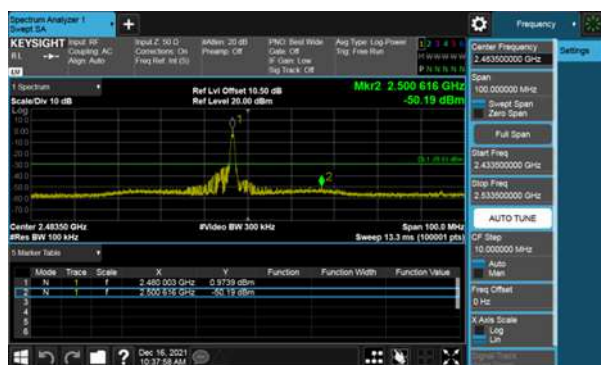
Modulation Type: GFSK(2Mbps) CH39

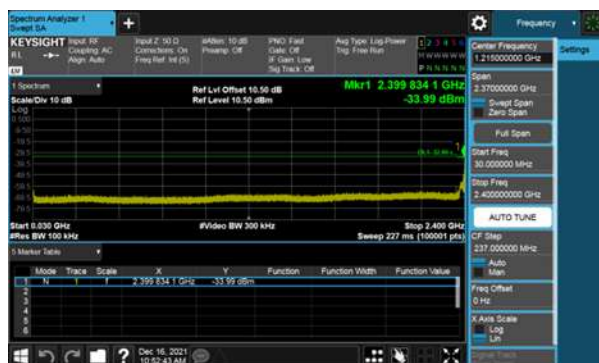
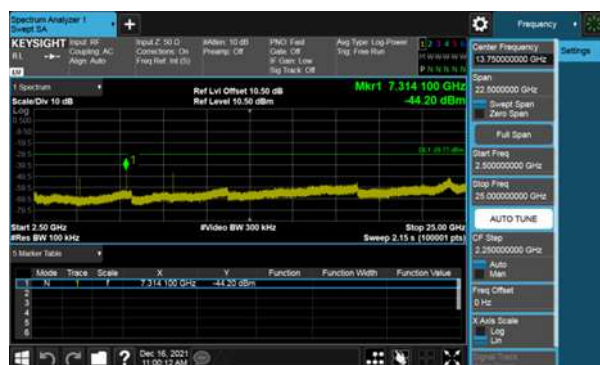
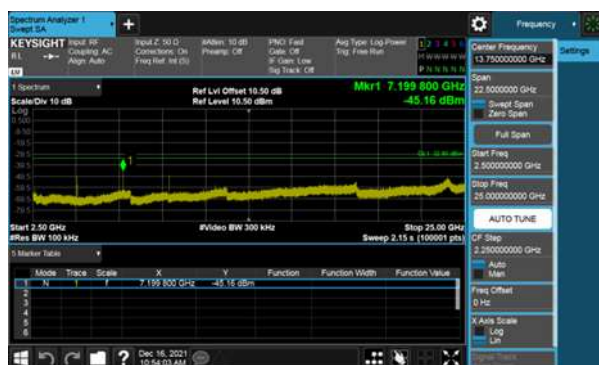
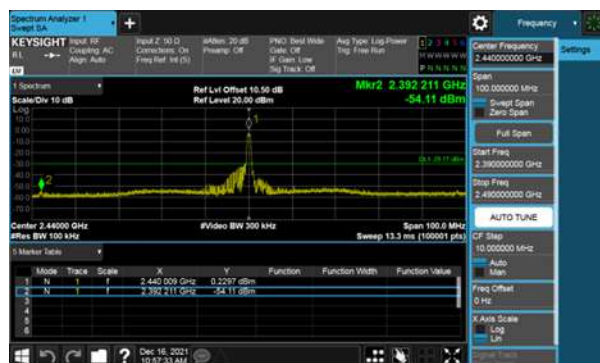
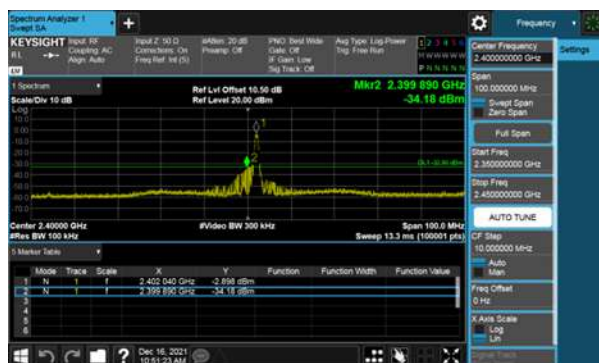
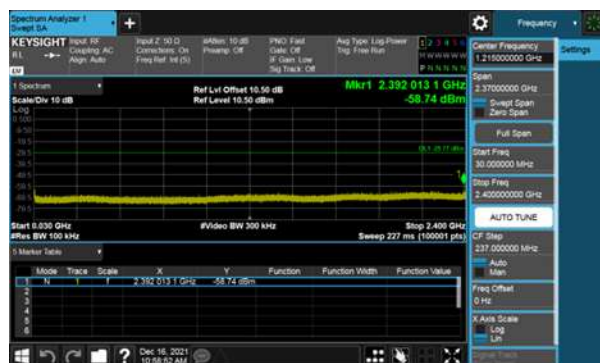


Modulation Type: GFSK(125Kbps)
CH00Modulation Type: GFSK(125Kbps)
CH19



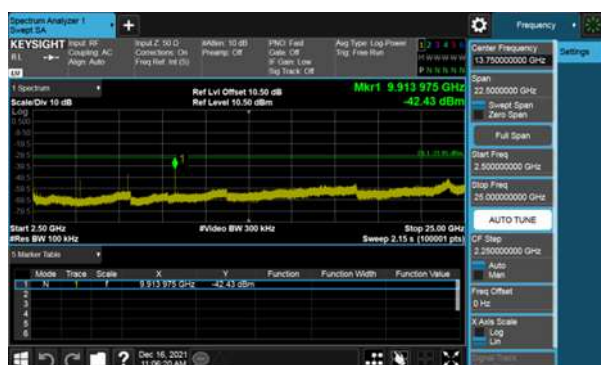
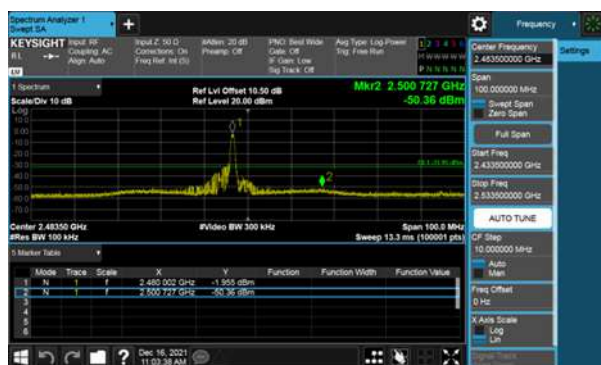
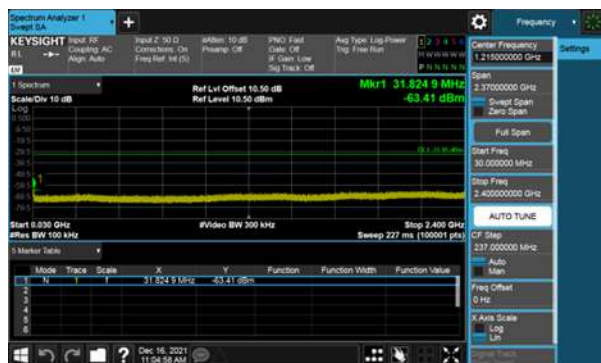
Modulation Type: GFSK(125Kbps) CH39



Modulation Type: GFSK(500Kbps)
CH00Modulation Type: GFSK(500Kbps)
CH19



Modulation Type: GFSK(500Kbps) CH39





10. 功率密度之規定

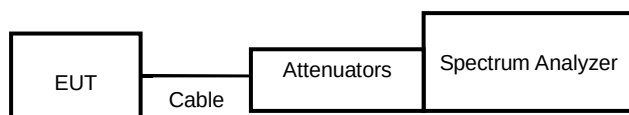
10.1. 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範 4.10.1.6 節之(2)(B)規定，對數位調變技術系統，由發射機傳導至天線之功率頻譜密度在任意傳輸期間內，皆小於或等於 8 毫分貝(dBm)，且應依 4.10.1.3 之方式降低功率頻譜密度限制值。

10.2. 測試方法

1. 將待測物和儀器相連接。
2. 設定儀器解析頻寬為 10kHz、視訊頻寬為 30 kHz。
3. 量測並記錄於報告中。

10.3. 測試配置





10.4. 功率密度之量測結果及數據

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 10KHz Bandwidth(dBm)	Limit
GFSK(1Mbps)	0	2402	-16.972	8.00
	19	2440	-16.241	8.00
	39	2480	-15.606	8.00

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 10KHz Bandwidth(dBm)	Limit
GFSK(2Mbps)	0	2402	-21.007	8.00
	19	2440	-20.157	8.00
	39	2480	-19.517	8.00

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 10KHz Bandwidth(dBm)	Limit
GFSK(125Kbps)	0	2402	-7.935	8.00
	19	2440	-7.131	8.00
	39	2480	-6.502	8.00

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 10KHz Bandwidth(dBm)	Limit
GFSK(500Kbps)	0	2402	-7.819	8.00
	19	2440	-7.073	8.00
	39	2480	-6.484	8.00

備註：繪圖資料請參考下頁。

10.5. 結果判定

高、中、低頻段的功率密度皆低於 8 dBm，合乎標準規定。

Modulation Type: GFSK(1Mbps)
CH00Modulation Type: GFSK(2Mbps)
CH00Modulation Type: GFSK(1Mbps)
CH19Modulation Type: GFSK(2Mbps)
CH19Modulation Type: GFSK(1Mbps)
CH39Modulation Type: GFSK(2Mbps)
CH39

Modulation Type: GFSK(125Kbps)
CH00Modulation Type: GFSK(500Kbps)
CH00Modulation Type: GFSK(125Kbps)
CH19Modulation Type: GFSK(500Kbps)
CH19Modulation Type: GFSK(125Kbps)
CH39Modulation Type: GFSK(500Kbps)
CH39



11. 電波暴露量之評估

11.1.Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1093)

LIMIT

KDB 447498 D01 § 4.3(a)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

*f(GHz) is the RF channel transmit frequency in GHz

* Power and distance are rounded to the nearest mW and mm before calculation

*The result is rounded to one decimal place for comparison

*The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion

11.2.EUT Specification

Frequency band (Operating)	☐ WLAN: 2412MHz ~ 2462MHz ☒ Bluetooth: 2402MHz ~ 2480MHz
Device category	☒ Portable (<20cm separation) ☐ Mobile (>20cm separation)
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Evaluation applied	☐ MPE Evaluation* ☒ SAR Evaluation ☐ N/A
Remark: 1. The maximum output power is <u>1.21 dBm (1.321mW)</u> at <u>2480MHz</u> (with <u>1.24 dBi</u> antenna gain.) 2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance. 3. For mobile or fixed location transmitters, no SAR consideration applied.	



11.3.TEST RESULTS

According to the KDB447498:

The SAR test exclusion thresholds Level:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * \text{sqrt}(\text{freq. in GHz}) < 3$$

Calculation

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2402-2480	1.21	1.71	1.48	5	10.00

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing



12. 限制使用之頻帶

Only spurious emissions are permitted in any of the frequency bands listed below:

頻率(兆赫)	頻率(兆赫)	頻率(兆赫)
0.090 - 0.110	240.00 - 285.00	3332.0 - 3339.0
0.490 - 0.510	322.00 - 335.40	3345.8 - 3358.0
2.172 - 2.198	399.90 - 410.00	3500.0 - 4400.0
3.013 - 3.033	485.00 - 510.00	4500.0 - 5250.0
4.115 - 4.198	608.00 - 614.00	5350.0 - 5460.0
5.670 - 5.690	703.00 - 748.00	7250.0 - 7750.0
6.200 - 6.300	758.00 - 803.00	8025.0 - 8500.0
8.230 - 8.400	825.00 - 915.00	9000.0 - 9200.0
12.265 - 12.600	930.00 - 1240.0	9300.0 - 9500.0
13.340 - 13.430	1300.0 - 1427.0	10600 - 12700
14.965 - 15.020	1435.0 - 1626.5	13250 - 13400
16.700 - 16.755	1660.0 - 1785.0	14470 - 14500
19.965 - 20.020	1805.0 - 1880.0	15350 - 16200
25.500 - 25.700	1885.0 - 1900.0	17700 - 21400
37.475 - 38.275	1905.0 - 1985.0	22010 - 23120
73.500 - 75.400	2010.0 - 2025.0	23600 - 24000
108.00 - 138.00	2110.0 - 2170.0	31200 - 31800
149.90 - 150.05	2200.0 - 2300.0	36430 - 36500
156.70 - 156.90	2310.0 - 2390.0	38600 以上
162.01 - 167.17	2483.5 - 2900.0	
167.72 - 173.20	3260.0 - 3267.0	

-----THE END OF REPORT-----