



低功率射頻器材測試報告

申請廠商	: 聯天科技股份有限公司
地址	: 台北市中山區中山北路二段 44 號 11 樓
工廠	: Ingenico International (Singapore) Pte Ltd
地址	: 152 Beach Road, Gateway East#12-05/08 singapore
產品名稱	: 多功能刷卡機底座
產品型號	: AXIUM DX8000-BASE-W1
廠牌	: ingenico
受理日期	: 110 年 09 月 11 日
完成日期	: 110 年 10 月 13 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
21090065-TRNCC01	Oct. 13, 2021	Original



證 明 書

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地址	:	152 Beach Road, Gateway East#12-05/08 singapore
產品名稱	:	多功能刷卡機底座
產品型號	:	AXIUM DX8000-BASE-W1
廠牌	:	ingenico
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)	:	20.77dBm

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 09 月 28 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, 5.5 節及 5.6 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	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	2412-2462MHz
Modulation Type	802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM
Modulation Technology	DSSS, OFDM
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40
Antenna Type	PCB Antenna
Antenna Gain	ANT A: 2.883dBi, ANT B: 1.374dBi
Adapter	Brand: 陸名海電子有限公司 Model: P12GUSB050200
Adapter	Brand: 達陞科技(股)公司 Model: SW-1772
USB cable	Brand: RAGGIE Model: WX04000230

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

802.11b, 802.11g, 802.11n HT20 (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	*11	2462
*06	2437	---	---

*為量測之頻率

802.11n HT40 (2422MHz~2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
*03	2422	*09	2452
04	2427	---	---
05	2432	---	---
*06	2437	---	---

*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” MP_TEST ver. 1.3.8.0”傳送及接收訊號。
- 執行以下測試模式如下：

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b (1Mbps) , Transmitter Mode ,Adapter: P12GUSB050200
2	802.11g (6Mbps) , Transmitter Mode,Adapter: P12GUSB050200
3	802.11n HT20 (6.5Mbps) , Transmitter Mode ,Adapter: P12GUSB050200
4	802.11n HT40 (13.5Mbps) , Transmitter Mode,Adapter: P12GUSB050200
5	802.11b (1Mbps) , Receiver Mode ,Adapter: P12GUSB050200
6	802.11g (6Mbps) , Receiver Mode ,Adapter: P12GUSB050200
7	802.11n HT20 (6.5Mbps) , Receiver Mode ,Adapter: P12GUSB050200
8	802.11n HT40 (13.5Mbps) , Receiver Mode ,Adapter: P12GUSB050200
9	802.11b (1Mbps) , Transmitter Mode , Adapter: SW-1772
10	802.11g (6Mbps) , Transmitter Mode, Adapter: SW-1772
11	802.11n HT20 (6.5Mbps) , Transmitter Mode ,Adapter: SW-1772
12	802.11n HT40 (13.5Mbps) , Transmitter Mode ,Adapter: SW-1772
13	802.11b (1Mbps) , Receiver Mode ,Adapter: SW-1772
14	802.11g (6Mbps) , Receiver Mode ,Adapter: SW-1772
15	802.11n HT20 (6.5Mbps) , Receiver Mode ,Adapter: SW-1772
16	802.11n HT40 (13.5Mbps) , Receiver Mode ,Adapter: SW-1772
caused “Test Mode 3,7” generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Transmitter Mode ,Adapter: P12GUSB050200
2	802.11g (6Mbps) , Transmitter Mode,Adapter: P12GUSB050200
3	802.11n HT20 (6.5Mbps) , Transmitter Mode ,Adapter: P12GUSB050200
4	802.11n HT40 (13.5Mbps) , Transmitter Mode,Adapter: P12GUSB050200
5	802.11b (1Mbps) , Receiver Mode ,Adapter: P12GUSB050200
6	802.11g (6Mbps) , Receiver Mode ,Adapter: P12GUSB050200
7	802.11n HT20 (6.5Mbps) , Receiver Mode ,Adapter: P12GUSB050200
8	802.11n HT40 (13.5Mbps) , Receiver Mode ,Adapter: P12GUSB050200
9	802.11b (1Mbps) , Transmitter Mode , Adapter: SW-1772
10	802.11g (6Mbps) , Transmitter Mode, Adapter: SW-1772
11	802.11n HT20 (6.5Mbps) , Transmitter Mode ,Adapter: SW-1772
12	802.11n HT40 (13.5Mbps) , Transmitter Mode ,Adapter: SW-1772
13	802.11b (1Mbps) , Receiver Mode ,Adapter: SW-1772
14	802.11g (6Mbps) , Receiver Mode ,Adapter: SW-1772
15	802.11n HT20 (6.5Mbps) , Receiver Mode ,Adapter: SW-1772
16	802.11n HT40 (13.5Mbps) , Receiver Mode ,Adapter: SW-1772
caused “Test Mode 3,7” generated the worst case, they were reported as the final data.	



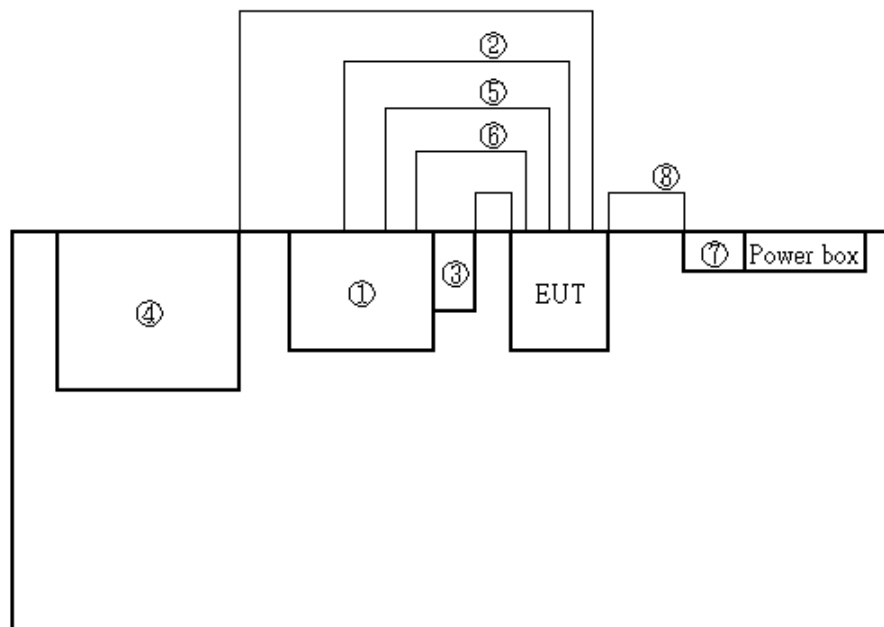
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Transmitter Mode ,Adapter: P12GUSB050200
2	802.11g (6Mbps) , Transmitter Mode,Adapter: P12GUSB050200
3	802.11n HT20 (6.5Mbps) , Transmitter Mode ,Adapter: P12GUSB050200
4	802.11n HT40 (13.5Mbps) , Transmitter Mode,Adapter: P12GUSB050200
5	802.11b (1Mbps) , Receiver Mode ,Adapter: P12GUSB050200
6	802.11g (6Mbps) , Receiver Mode ,Adapter: P12GUSB050200
7	802.11n HT20 (6.5Mbps) , Receiver Mode ,Adapter: P12GUSB050200
8	802.11n HT40 (13.5Mbps) , Receiver Mode ,Adapter: P12GUSB050200
caused "Test Mode 1~4,7" generated the worst case, they were reported as the final data.	

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11b	2TX
802.11g	2TX
802.11n HT20	2TX
802.11n HT40	2TX

1.5. 受測裝置之系統說明

傳導干擾:



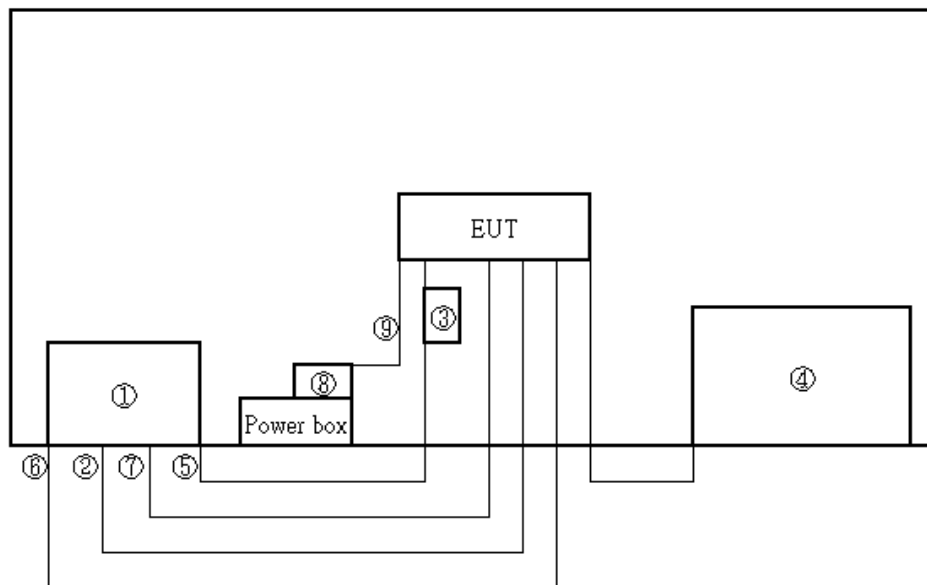
Under Table

Remote Site

- ①Notebook
- ②RJ45 Cable
- ③test fixture
- ④Cash Drawer
- ⑤USB Cable(Brand:LineGear, Model:type A to type B)
- ⑥USB Cable(Brand:LineGear, Model:type A to type A)
- ⑦Adapter(Brand:陸名海電子有限公司, Model:P12GUSB050200) (隨貨配件)
- ⑧USB cable(Brand:RAGGIE, Model:WX04000230) (隨貨配件)



輻射干擾:



Under Table

Remote Site

- ①Notebook
- ②RJ45 Cable
- ③test fixture
- ④Cash Drawer
- ⑤USB Cable(Brand:BENEVO, Model:BUSB3100AMF)
- ⑥USB Cable(Brand:LineGear, Model:type A to type B)
- ⑦USB Cable(Brand:LineGear, Model:type A to type A)
- ⑧Adapter(Brand:陸名海電子有限公司, Model:P12GUSB050200) (隨貨配件)
- ⑨USB cable(Brand:RAGGIE, Model:WX04000230) (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	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	DELL	Latitude E5470	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
testfixture	YD-TECH	MCS-73 LV	N/A	N/A
Cash Drawer	N/A	N/A	1.8m / NS	N/A
USB Cable	BENEVO	BUSB3100AMF	1m / NS	N/A
USB Cable	LineGear	type A to type B	1.8m / S	N/A
USB Cable	LineGear	type A to type A	1.8m / S	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
testfixture	YD-TECH	MCS-73 LV	N/A	N/A
Cash Drawer	N/A	N/A	1.8m / NS	N/A
USB Cable	BENEVO	BUSB3100AMF	1m / NS	N/A
USB Cable	LineGear	type A to type B	1.8m / S	N/A
USB Cable	LineGear	type A to type A	1.8m / S	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	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：	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	2021/09/28	26°C / 46%	Nick Guan
Radiated Emissions	3M03-NK	2021/09/24~2021/09/28	23~24°C / 44~46%	Nick Guan
AC Power Line Conducted Emission	CON01-NK	2021/09/28	24°C / 51%	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)	±3.63dB
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	A051717	2021/06/03	2022/06/02
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-02203	2021/03/16	2022/03/15
Horn Antenna	EMCO	3116	31970	2021/03/29	2022/03/28
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100219	2021/08/06	2022/08/05
Preamplifier	EM Electronics corp.	EM330	60820	2021/04/19	2022/04/18
Preamplifier	EM Electronics corp.	EM01G18G	60831	2021/06/25	2022/06/24
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2020/11/06	2021/11/05
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	CFD300-NL	NA	2021/03/15	2022/03/14
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
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
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/07/14	2022/07/13
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2020/12/25	2021/12/24
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
Power Meter	Anritsu	ML2495A	1224005	2021/04/14	2022/04/13
Power Sensor	Anritsu	MA2411B	1207295	2021/04/14	2022/04/13



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	101402	2021/03/12	2022/03/11
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

Antenna A

- | | |
|----------------------|-----------------|
| 1.1 Brand : | JESONcom |
| 1.2 Model : | 5U051A |
| 1.3 Antenna type : | PCB Antenna |
| 1.4 Frequency Rang : | 2412MHz-2462MHz |
| 1.5 Gain(peak) : | 2.883 dBi |
- (參照天線規格資料)

Antenna B

- | | |
|----------------------|-----------------|
| 1.6 Brand : | JESONcom |
| 1.7 Model : | 5U051G |
| 1.8 Antenna type : | PCB Antenna |
| 1.9 Frequency Rang : | 2412MHz-2462MHz |
| 1.10 Gain(peak) : | 1.374 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：

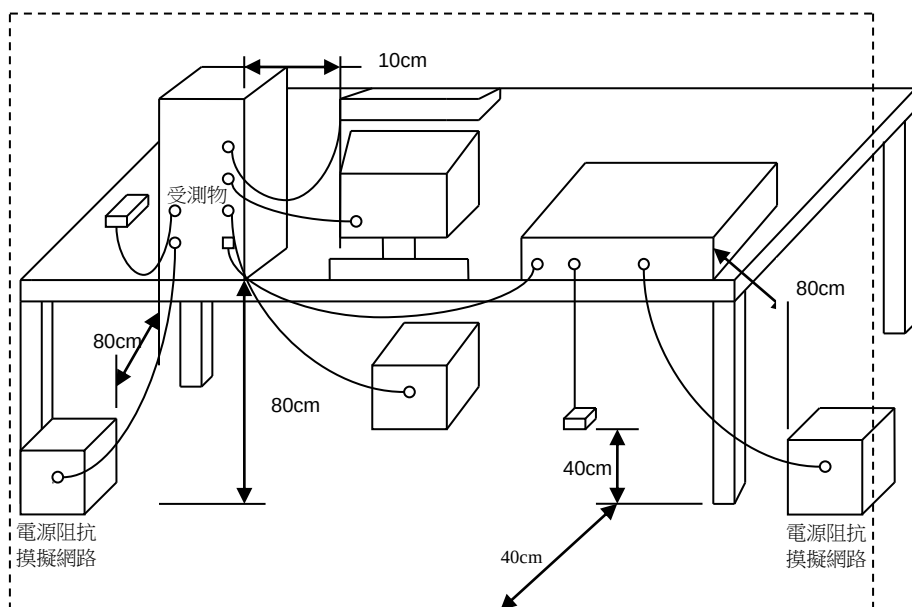
頻率範圍(MHz)	傳導限制值 (dB μ V)	
	準峰值(Quasi-peak)	平均值(Average)
0.15 ~ 0.5	66-56 (註)	56-46 (註)
0.5 ~ 5	56	46
5 ~ 30	60	50

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。

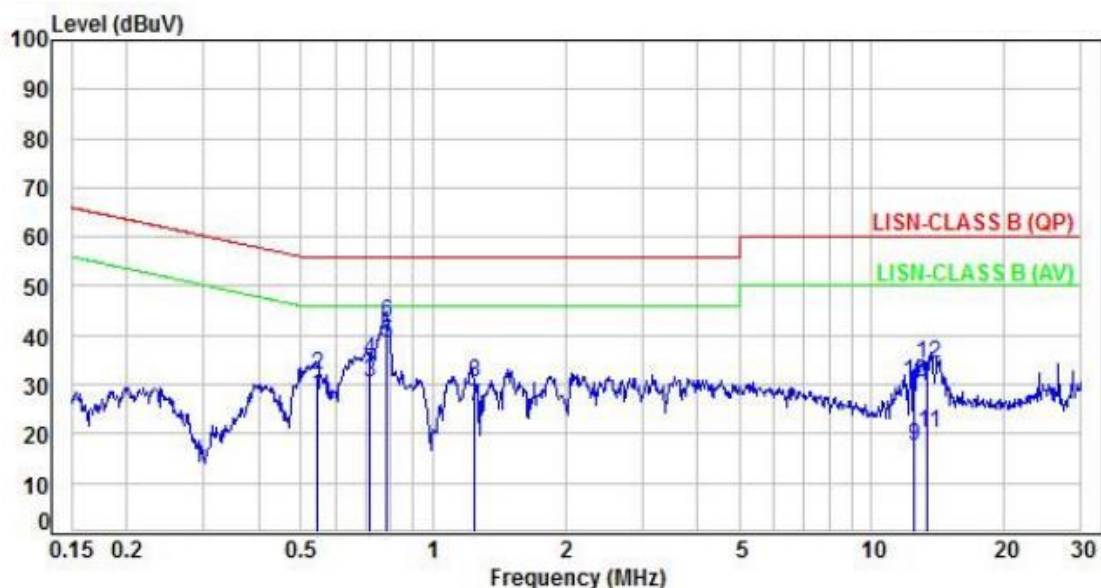
4.3. 傳導干擾之擺設





4.4. 傳導干擾之測試結果及數據

Power	: AC 110V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 3		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.54	9.99	17.78	27.77	46.00	-18.23	Average	P
2	0.54	9.99	22.05	32.04	56.00	-23.96	QP	P
3	0.72	10.03	20.20	30.23	46.00	-15.77	Average	P
4	0.72	10.03	24.81	34.84	56.00	-21.16	QP	P
5	0.78	10.03	28.22	38.25	46.00	-7.75	Average	P
6	0.78	10.03	32.74	42.77	56.00	-13.23	QP	P
7	1.24	10.08	15.28	25.36	46.00	-20.64	Average	P
8	1.24	10.08	20.48	30.56	56.00	-25.44	QP	P
9	12.51	10.50	6.91	17.41	50.00	-32.59	Average	P
10	12.51	10.50	19.99	30.49	60.00	-29.51	QP	P
11	13.42	10.53	9.70	20.23	50.00	-29.77	Average	P
12	13.42	10.53	23.73	34.26	60.00	-25.74	QP	P

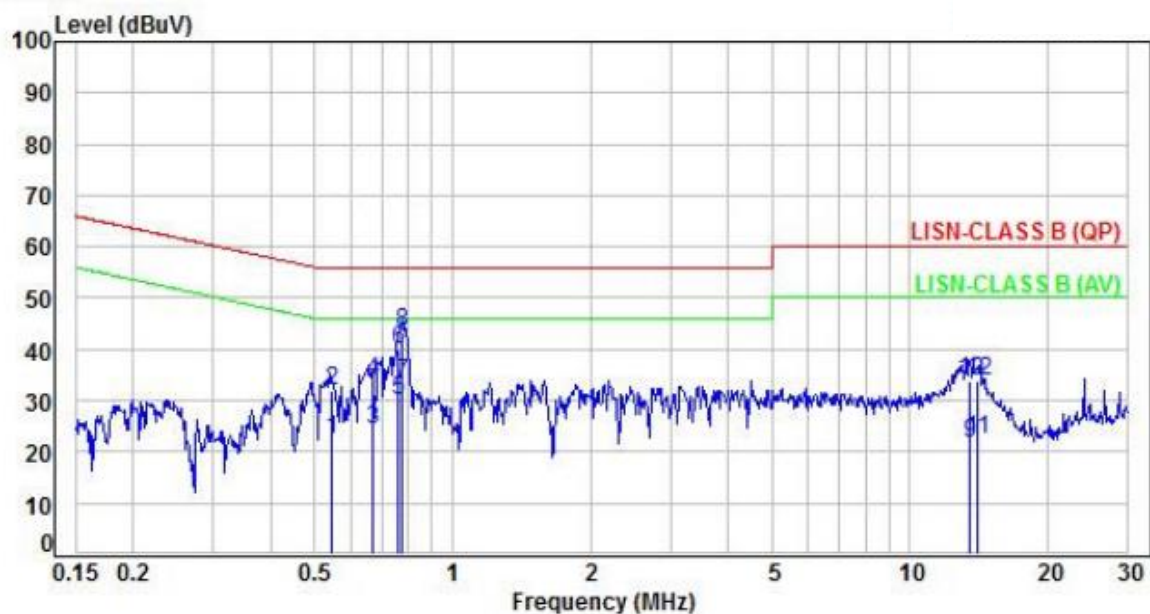
Note: Level=Reading+Factor

Margin=Level-Limit

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



Power	: AC 110V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 3		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.54	9.98	12.44	22.42	46.00	-23.58	Average	P
2	0.54	9.98	22.02	32.00	56.00	-24.00	QP	P
3	0.67	10.01	14.24	24.25	46.00	-21.75	Average	P
4	0.67	10.01	23.91	33.92	56.00	-22.08	QP	P
5	0.76	10.02	19.99	30.01	46.00	-15.99	Average	P
6	0.76	10.02	29.86	39.88	56.00	-16.12	QP	P
7	0.77	10.02	23.37	33.39	46.00	-12.61	Average	P
8	0.77	10.02	33.15	43.17	56.00	-12.83	QP	P
9	13.46	10.52	11.15	21.67	50.00	-28.33	Average	P
10	13.46	10.52	23.37	33.89	60.00	-26.11	QP	P
11	14.03	10.54	11.79	22.33	50.00	-27.67	Average	P
12	14.03	10.54	23.40	33.94	60.00	-26.06	QP	P

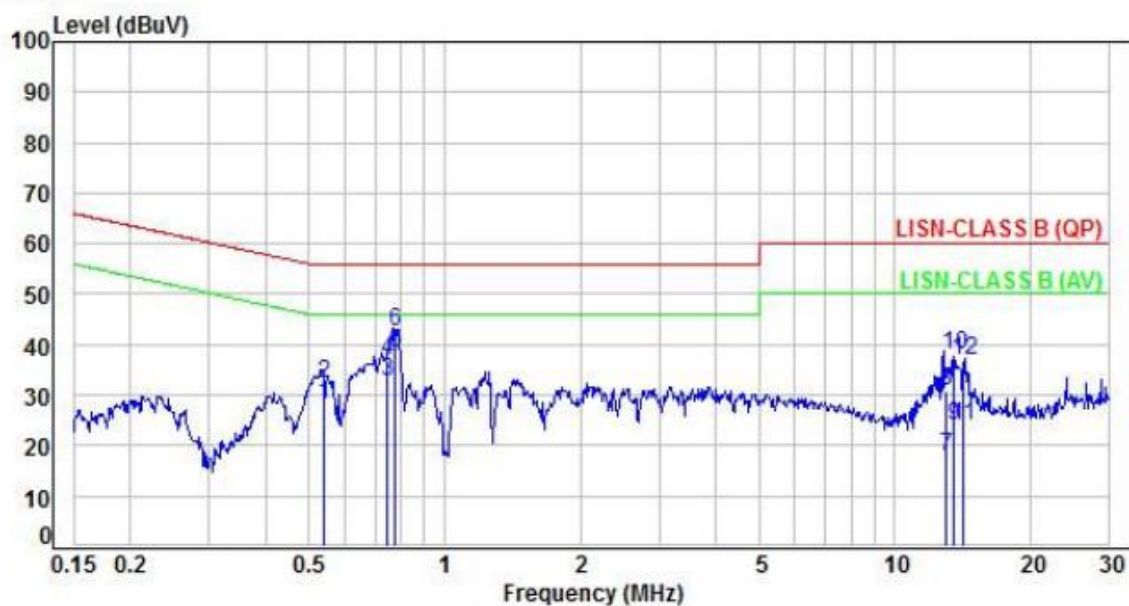
Note: Level=Reading+Factor

Margin=Level-Limit

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



Power	: AC 110V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 7		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.54	9.99	18.23	28.22	46.00	-17.78	Average	P
2	0.54	9.99	22.38	32.37	56.00	-23.63	QP	P
3	0.74	10.03	22.60	32.63	46.00	-13.37	Average	P
4	0.74	10.03	26.89	36.92	56.00	-19.08	QP	P
5	0.77	10.03	28.34	38.37	46.00	-7.63	Average	P
6	0.77	10.03	32.65	42.68	56.00	-13.32	QP	P
7	12.95	10.51	7.25	17.76	50.00	-32.24	Average	P
8	12.95	10.51	20.47	30.98	60.00	-29.02	QP	P
9	13.48	10.53	13.29	23.82	50.00	-26.18	Average	P
10	13.48	10.53	27.36	37.89	60.00	-22.11	QP	P
11	14.15	10.55	13.41	23.96	50.00	-26.04	Average	P
12	14.15	10.55	26.15	36.70	60.00	-23.30	QP	P

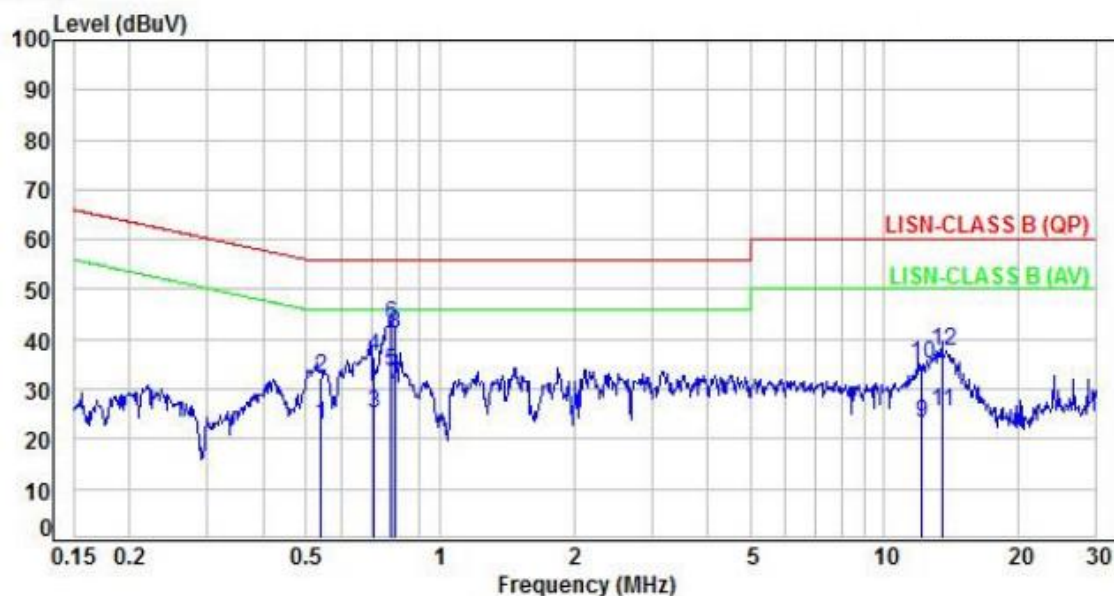
Note: Level=Reading+Factor

Margin=Level-Limit

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



Power	: AC 110V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 7		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.54	9.98	12.92	22.90	46.00	-23.10	Average	P
2	0.54	9.98	22.44	32.42	56.00	-23.58	QP	P
3	0.71	10.02	15.21	25.23	46.00	-20.77	Average	P
4	0.71	10.02	26.49	36.51	56.00	-19.49	QP	P
5	0.78	10.02	23.26	33.28	46.00	-12.72	Average	P
6	0.78	10.02	33.11	43.13	56.00	-12.87	QP	P
7	0.79	10.02	20.93	30.95	46.00	-15.05	Average	P
8	0.79	10.02	30.94	40.96	56.00	-15.04	QP	P
9	12.14	10.46	12.72	23.18	50.00	-26.82	Average	P
10	12.14	10.46	24.35	34.81	60.00	-25.19	QP	P
11	13.48	10.52	14.77	25.29	50.00	-24.71	Average	P
12	13.48	10.52	27.17	37.69	60.00	-22.31	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。

備註：

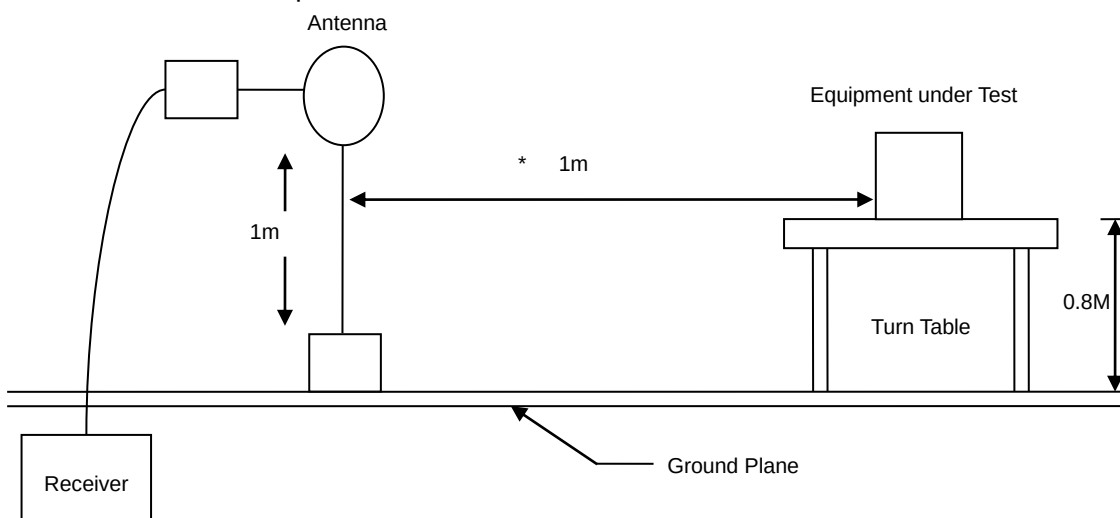
1.For Below 1G 若待測物之輻射峰值低於限制值 3dB 以上，則將終止測試，並以峰值之讀值作為報告之記錄；反之，若無 3dB 餘裕範圍之輻射，則每一訊號皆以準峰值之測試方法量測，並記錄於報告之中。

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

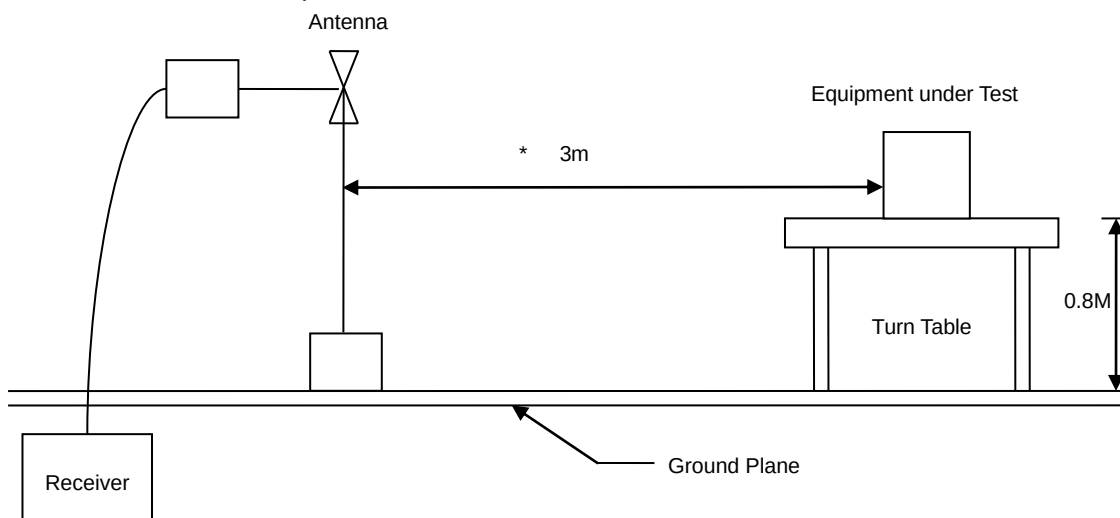


5.3. 輻射場地之擺設

Below 30MHz test setup

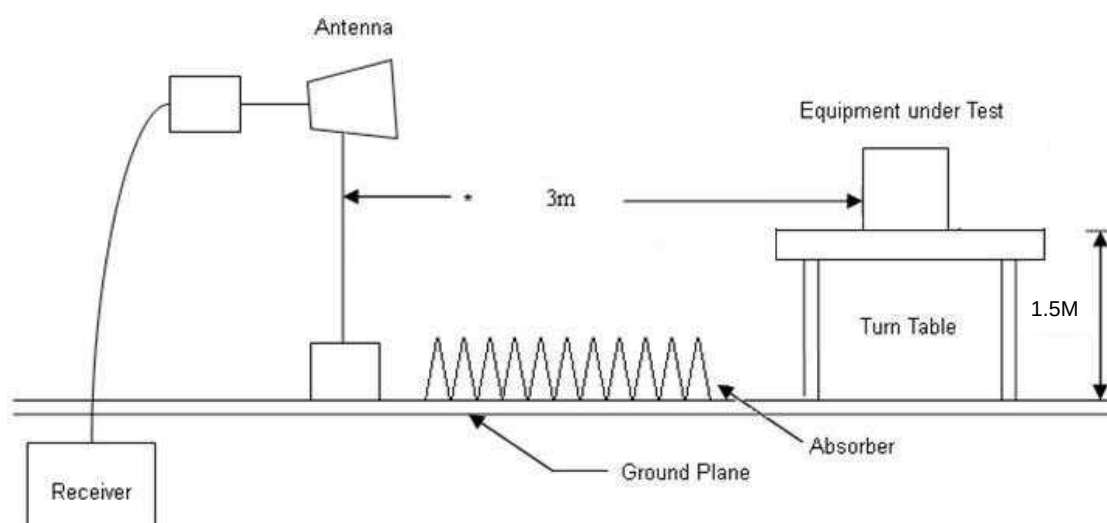


30MHz- 1GHz Test Setup





Above 1GHz Test Setup



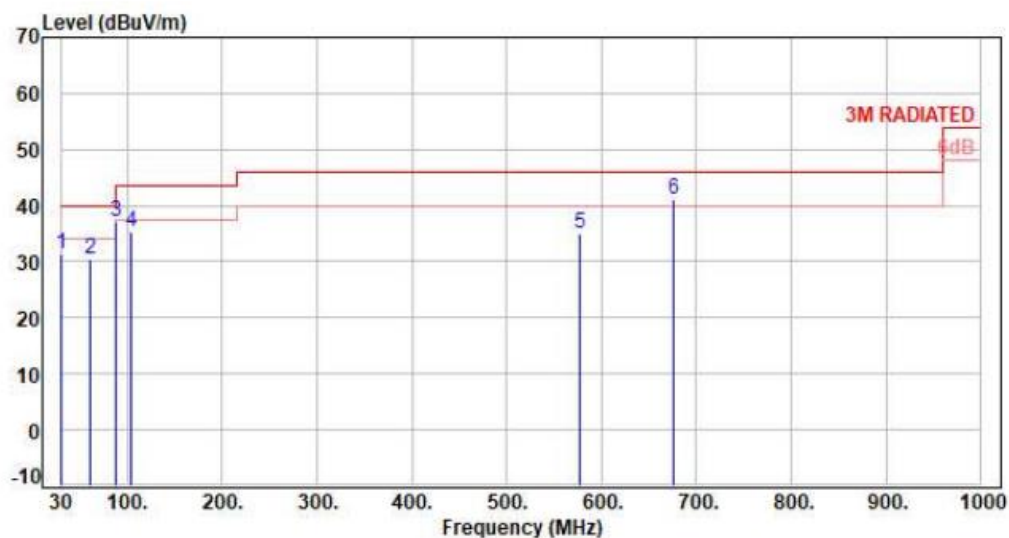


5.4. 輻射之測試結果及數據 (9kHz ~ 30MHz)

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	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3		:



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	-3.32	34.73	31.41	40.00	-8.59	Peak	400	360	P
2	61.04	-17.76	48.36	30.60	40.00	-9.40	Peak	400	360	P
3	88.20	-17.76	54.90	37.14	43.50	-6.36	Peak	400	360	P
4	103.72	-13.69	48.91	35.22	43.50	-8.28	Peak	400	360	P
5	577.08	-3.88	39.04	35.16	46.00	-10.84	Peak	400	360	P
6	676.02	-2.63	43.70	41.07	46.00	-4.93	Peak	400	360	P

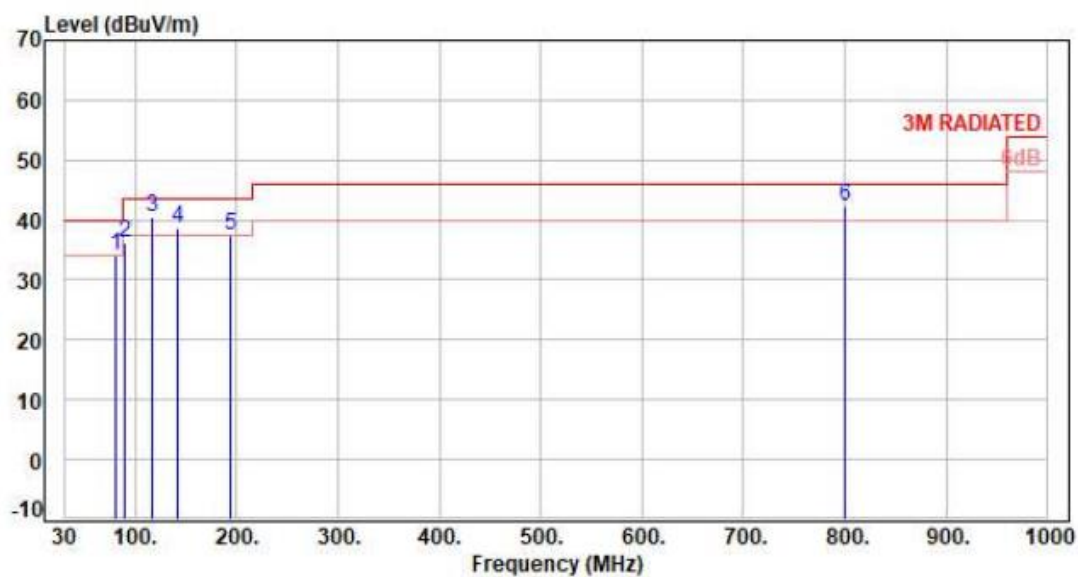
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	80.44	-17.20	51.40	34.20	40.00	-5.80	QP	150	142	P
2	90.14	-17.65	53.90	36.25	43.50	-7.25	QP	150	335	P
3	117.30	-11.16	51.53	40.37	43.50	-3.13	Peak	400	360	P
4	142.52	-11.58	50.27	38.69	43.50	-4.81	Peak	400	360	P
5	194.90	-11.91	49.44	37.53	43.50	-5.97	Peak	400	360	P
6	800.18	-0.62	43.03	42.41	46.00	-3.59	Peak	400	360	P

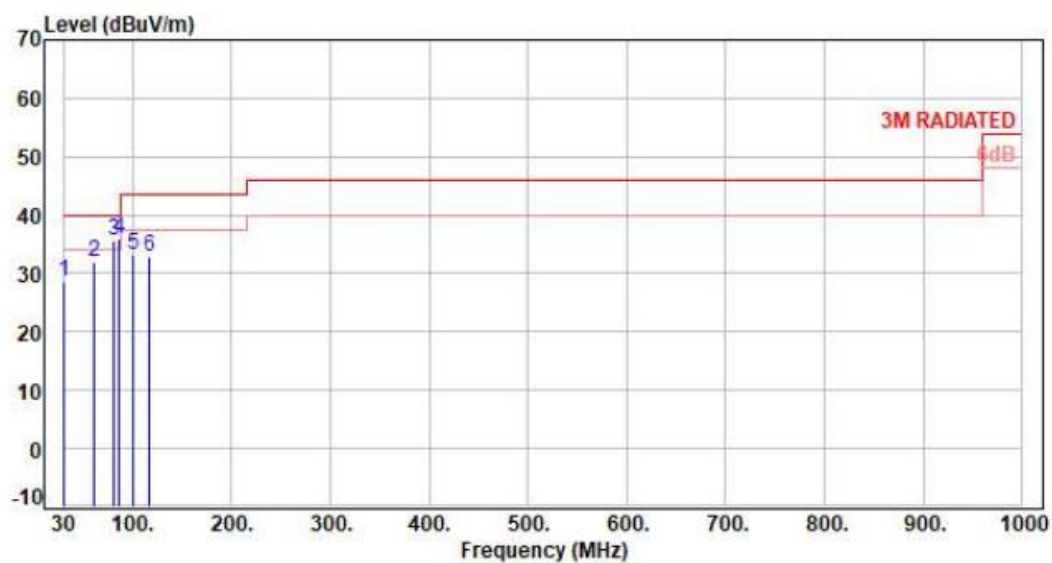
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 7		:



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	-3.32	32.03	28.71	40.00	-11.29	Peak	400	360	P
2	61.04	-17.76	49.64	31.88	40.00	-8.12	Peak	400	360	P
3	80.44	-17.20	52.72	35.52	40.00	-4.48	Peak	400	360	P
4	86.26	-17.62	53.58	35.96	40.00	-4.04	Peak	400	360	P
5	99.84	-14.89	48.00	33.11	43.50	-10.39	Peak	400	360	P
6	117.30	-11.16	43.90	32.74	43.50	-10.76	Peak	400	360	P

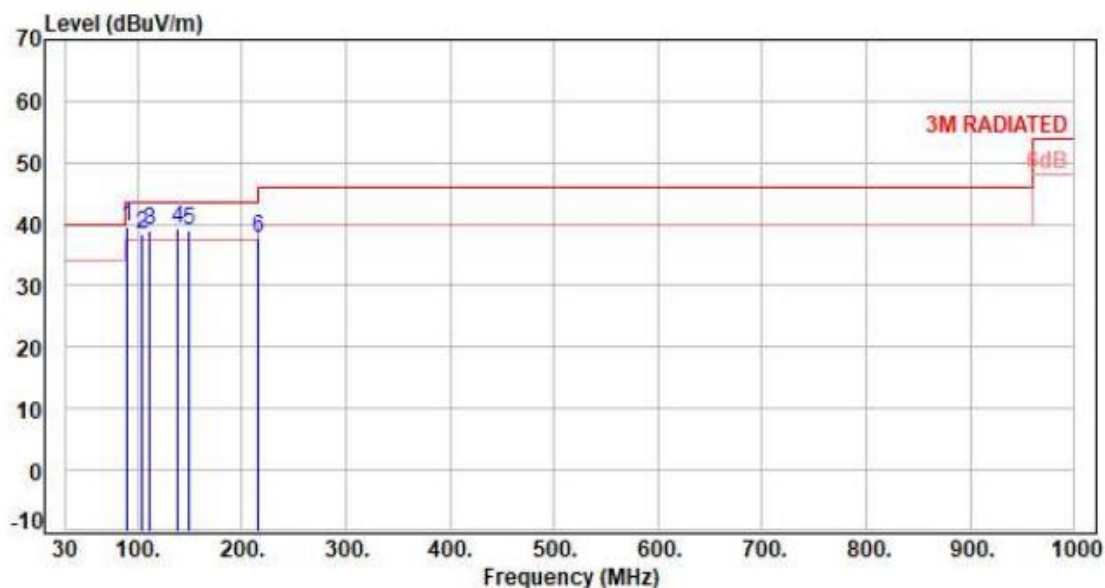
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	90.14	-17.65	57.19	39.54	43.50	-3.96	Peak	400	360	P
2	103.72	-13.69	52.12	38.43	43.50	-5.07	Peak	400	360	P
3	111.48	-11.95	50.81	38.86	43.50	-4.64	Peak	400	360	P
4	138.64	-11.22	50.43	39.21	43.50	-4.29	Peak	400	360	P
5	148.34	-11.91	50.90	38.99	43.50	-4.51	Peak	400	360	P
6	216.24	-13.32	51.20	37.88	46.00	-8.12	Peak	400	360	P

Note: Level=Reading+Factor

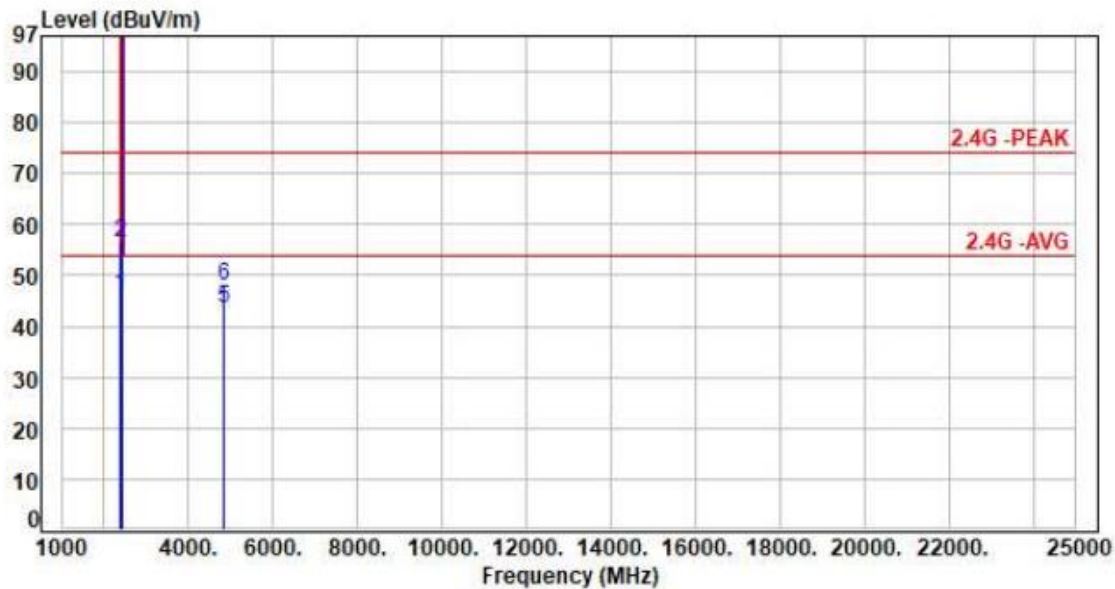
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



5.6. 輻射之測試結果及數據 (1GHz ~ 25GHz)

Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



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	-14.19	60.27	46.08	54.00	-7.92	Average	100	169	P
2	2390.00	-14.19	70.68	56.49	74.00	-17.51	Peak	100	169	P
3	2412.00	-14.21	117.46	103.25	200.00	-96.75	Average	100	169	P
4	2412.00	-14.21	121.42	107.21	200.00	-92.79	Peak	100	169	P
5	4824.00	-8.30	51.90	43.60	54.00	-10.40	Average	100	39	P
6	4824.00	-8.30	56.41	48.11	74.00	-25.89	Peak	100	39	P

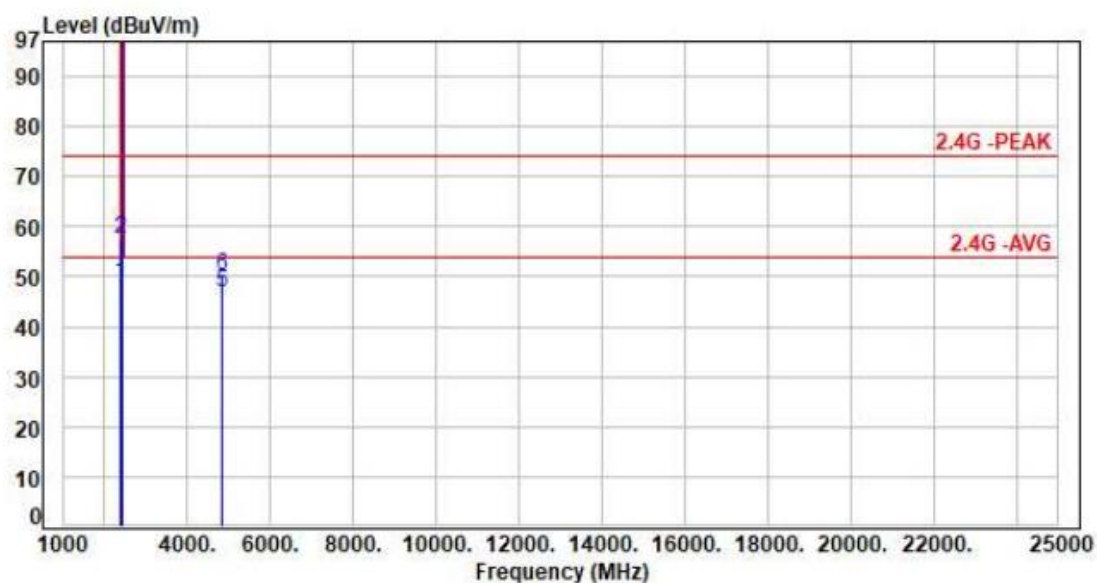
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



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	-14.19	63.02	48.83	54.00	-5.17	Average	172	167	P
2	2390.00	-14.19	71.69	57.50	74.00	-16.50	Peak	172	167	P
3	2412.00	-14.21	117.77	103.56	200.00	-96.44	Average	172	167	P
4	2412.00	-14.21	121.89	107.68	200.00	-92.32	Peak	172	167	P
5	4824.00	-8.30	55.06	46.76	54.00	-7.24	Average	142	192	P
6	4824.00	-8.30	58.61	50.31	74.00	-23.69	Peak	142	192	P

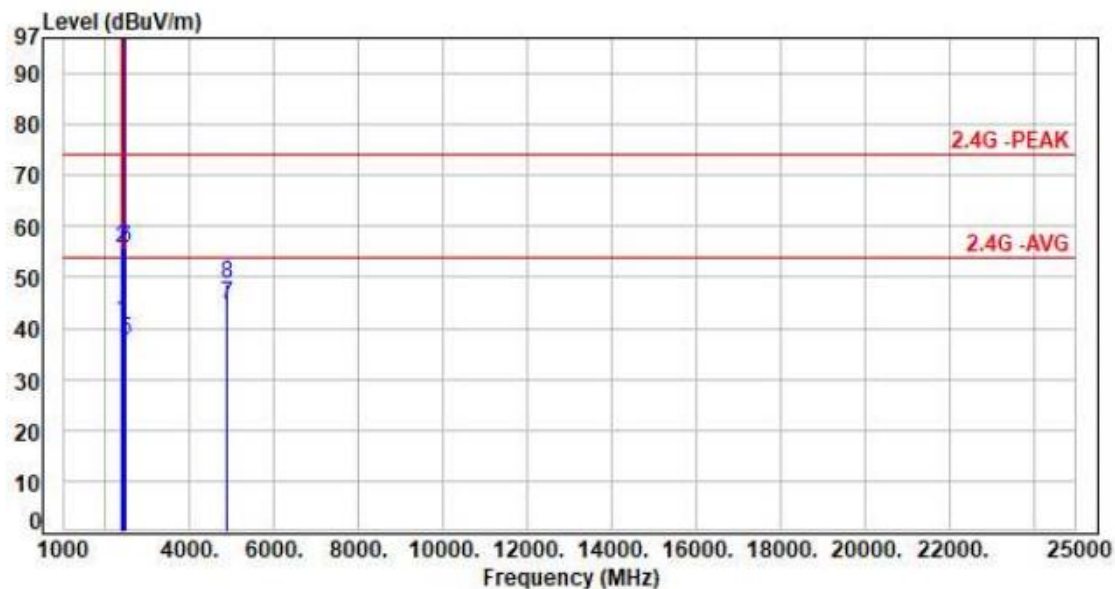
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH06		:



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	-14.19	55.46	41.27	54.00	-12.73	Average	100	163	P
2	2390.00	-14.19	69.97	55.78	74.00	-18.22	Peak	100	163	P
3	2437.00	-14.18	116.65	102.47	200.00	-97.53	Average	100	163	P
4	2437.00	-14.18	120.70	106.52	200.00	-93.48	Peak	100	163	P
5	2483.50	-14.12	51.63	37.51	54.00	-16.49	Average	100	163	P
6	2483.50	-14.12	69.72	55.60	74.00	-18.40	Peak	100	163	P
7	4874.00	-8.14	52.89	44.75	54.00	-9.25	Average	187	36	P
8	4874.00	-8.14	56.74	48.60	74.00	-25.40	Peak	187	36	P

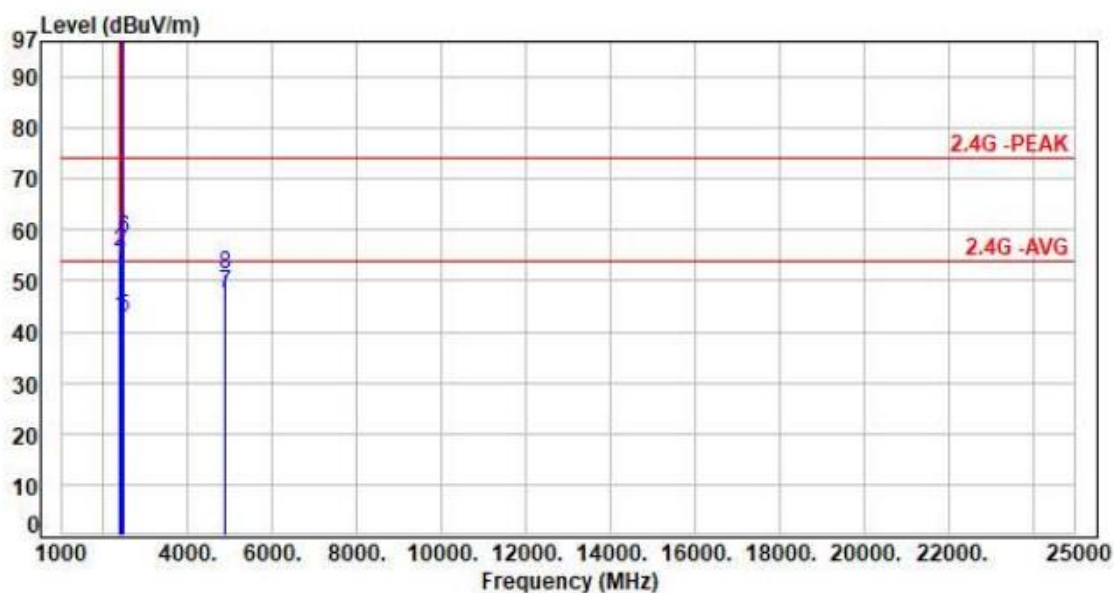
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH06		:



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	-14.19	57.12	42.93	54.00	-11.07	Average	136	166	P
2	2390.00	-14.19	69.88	55.69	74.00	-18.31	Peak	136	166	P
3	2437.00	-14.18	117.57	103.39	200.00	-96.61	Average	136	166	P
4	2437.00	-14.18	121.08	106.90	200.00	-93.10	Peak	136	166	P
5	2483.50	-14.12	56.88	42.76	54.00	-11.24	Average	136	166	P
6	2483.50	-14.12	72.48	58.36	74.00	-15.64	Peak	136	166	P
7	4874.00	-8.14	55.63	47.49	54.00	-6.51	Average	129	192	P
8	4874.00	-8.14	59.35	51.21	74.00	-22.79	Peak	129	192	P

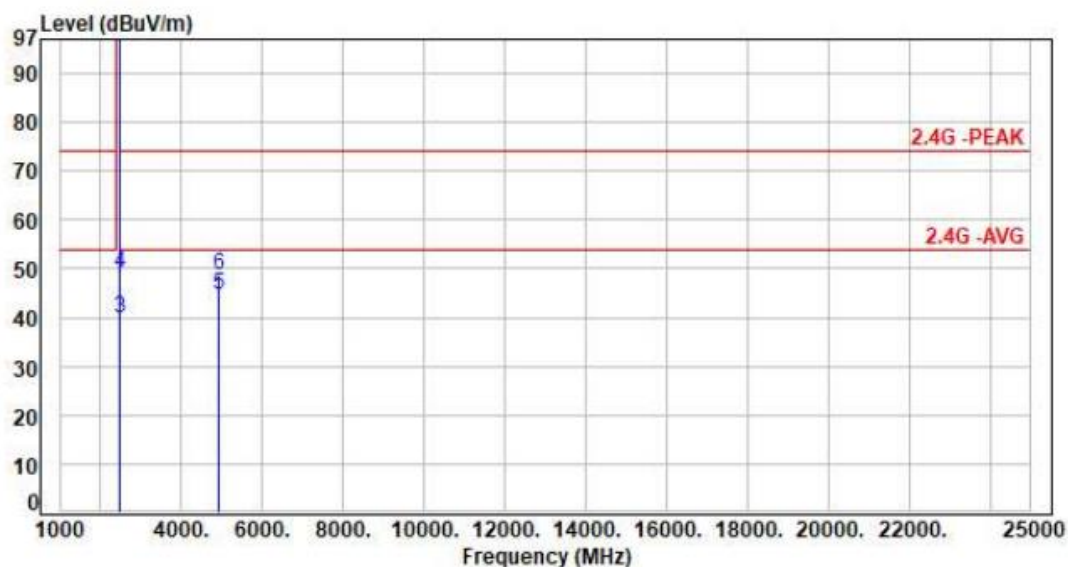
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	116.46	102.31	200.00	-97.69	Average	119	167	P
2	2462.00	-14.15	120.63	106.48	200.00	-93.52	Peak	119	167	P
3	2483.50	-14.12	53.86	39.74	54.00	-14.26	Average	119	167	P
4	2483.50	-14.12	63.31	49.19	74.00	-24.81	Peak	119	167	P
5	4924.00	-7.98	52.77	44.79	54.00	-9.21	Average	184	35	P
6	4924.00	-7.98	56.51	48.53	74.00	-25.47	Peak	184	35	P

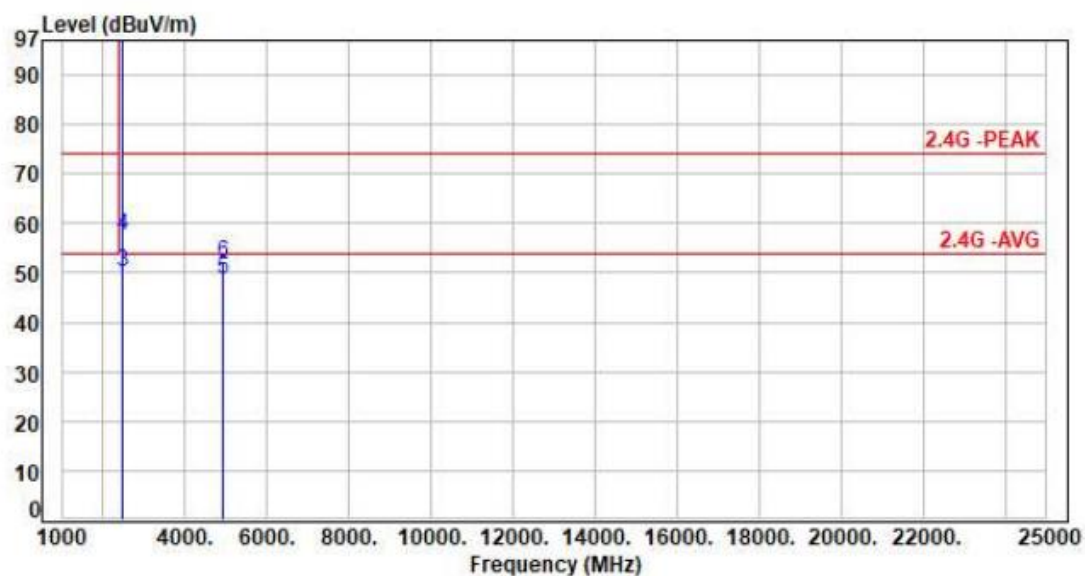
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	117.62	103.47	200.00	-96.53	Average	167	168	P
2	2462.00	-14.15	121.97	107.82	200.00	-92.18	Peak	167	168	P
3	2483.50	-14.12	64.23	50.11	54.00	-3.89	Average	167	168	P
4	2483.50	-14.12	71.72	57.60	74.00	-16.40	Peak	167	168	P
5	4924.00	-7.98	56.62	48.64	54.00	-5.36	Average	296	186	P
6	4924.00	-7.98	60.04	52.06	74.00	-21.94	Peak	296	186	P

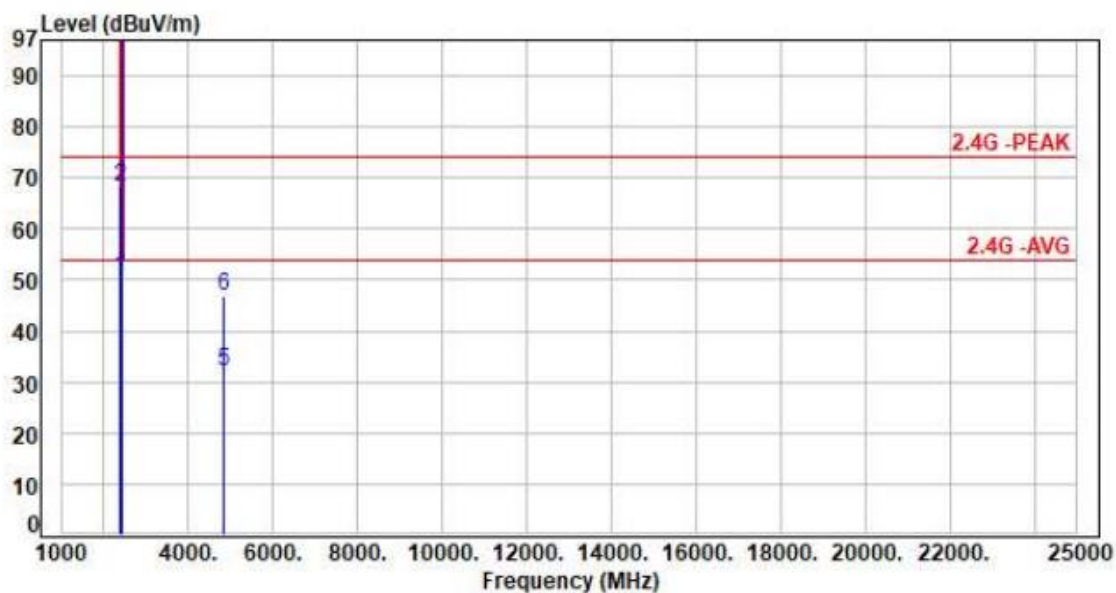
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01		:



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	-14.19	64.72	50.53	54.00	-3.47	Average	100	189	P
2	2390.00	-14.19	82.30	68.11	74.00	-5.89	Peak	100	189	P
3	2412.00	-14.21	111.71	97.50	200.00	-102.50	Average	100	189	P
4	2412.00	-14.21	120.71	106.50	200.00	-93.50	Peak	100	189	P
5	4824.00	-8.30	40.49	32.19	54.00	-21.81	Average	175	36	P
6	4824.00	-8.30	55.16	46.86	74.00	-27.14	Peak	175	36	P

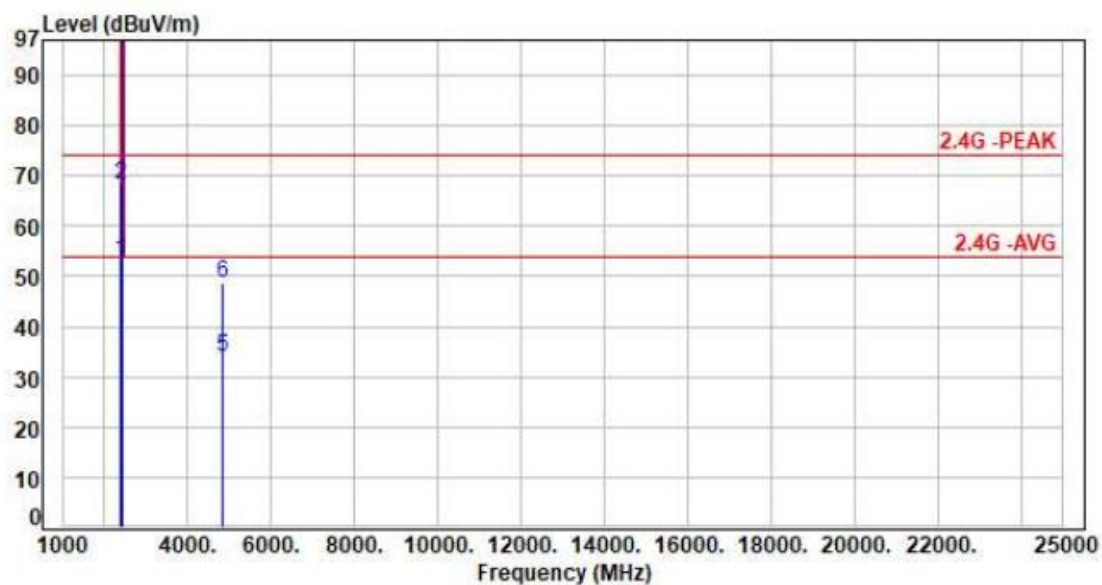
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH01		:



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	-14.19	67.18	52.99	54.00	-1.01	Average	100	169	P
2	2390.00	-14.19	82.55	68.36	74.00	-5.64	Peak	100	169	P
3	2412.00	-14.21	114.41	100.20	200.00	-99.80	Average	100	169	P
4	2412.00	-14.21	124.57	110.36	200.00	-89.64	Peak	100	169	P
5	4824.00	-8.30	42.28	33.98	54.00	-20.02	Average	100	193	P
6	4824.00	-8.30	57.14	48.84	74.00	-25.16	Peak	100	193	P

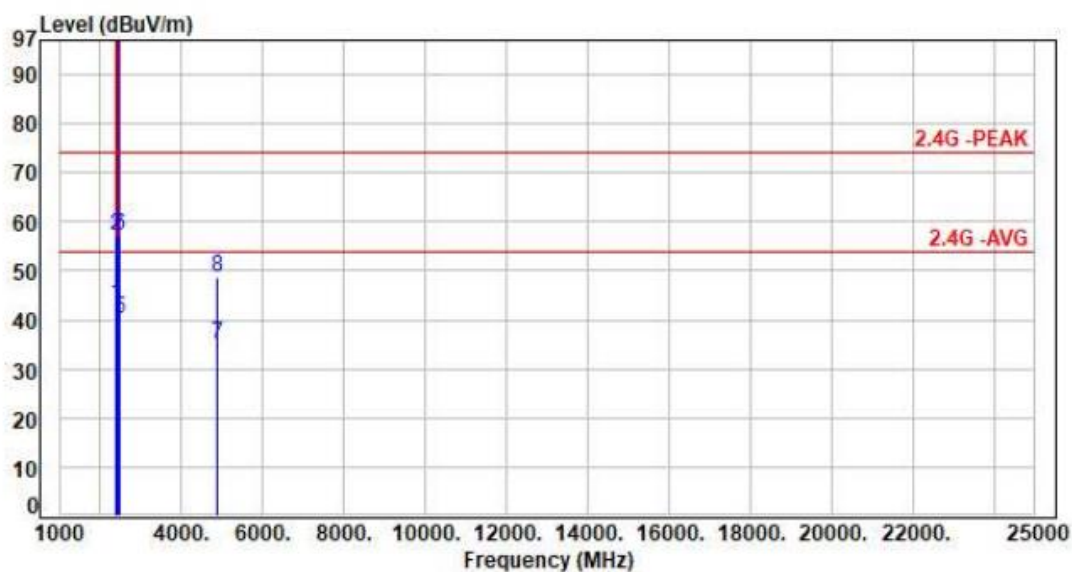
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH06		:



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	-14.19	57.34	43.15	54.00	-10.85	Average	100	158	P
2	2390.00	-14.19	71.47	57.28	74.00	-16.72	Peak	100	158	P
3	2437.00	-14.18	115.63	101.45	200.00	-98.55	Average	100	158	P
4	2437.00	-14.18	125.32	111.14	200.00	-88.86	Peak	100	158	P
5	2483.50	-14.12	54.17	40.05	54.00	-13.95	Average	100	158	P
6	2483.50	-14.12	71.29	57.17	74.00	-16.83	Peak	100	158	P
7	4874.00	-8.14	43.22	35.08	54.00	-18.92	Average	109	39	P
8	4874.00	-8.14	56.92	48.78	74.00	-25.22	Peak	109	39	P

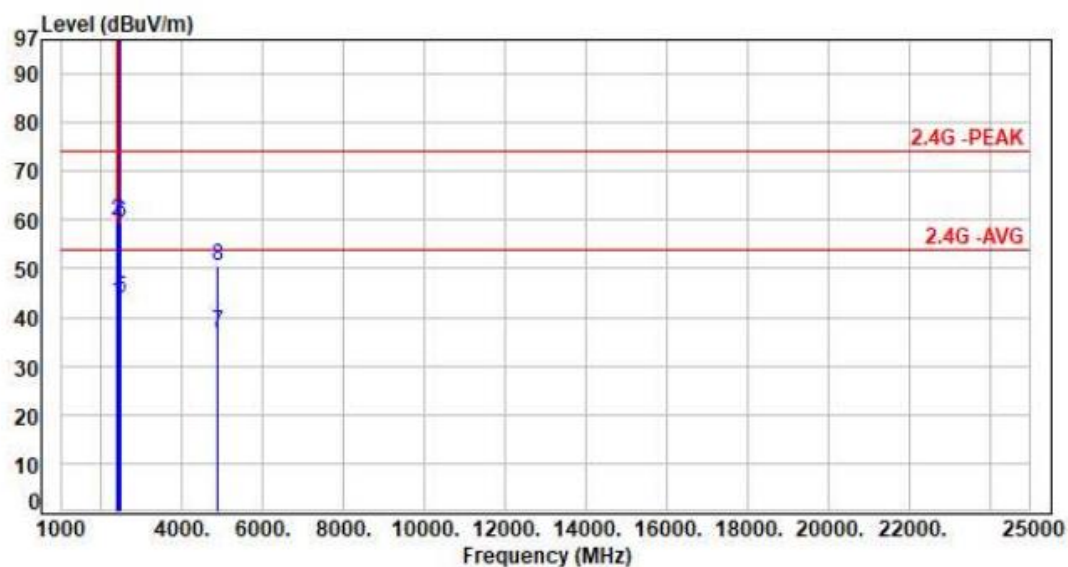
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH06		



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	-14.19	57.51	43.32	54.00	-10.68	Average	159	171	P
2	2390.00	-14.19	73.89	59.70	74.00	-14.30	Peak	159	171	P
3	2437.00	-14.18	116.25	102.07	200.00	-97.93	Average	159	171	P
4	2437.00	-14.18	126.89	112.71	200.00	-87.29	Peak	159	171	P
5	2483.50	-14.12	57.96	43.84	54.00	-10.16	Average	159	171	P
6	2483.50	-14.12	73.56	59.44	74.00	-14.56	Peak	159	171	P
7	4874.00	-8.14	44.98	36.84	54.00	-17.16	Average	100	197	P
8	4874.00	-8.14	58.62	50.48	74.00	-23.52	Peak	100	197	P

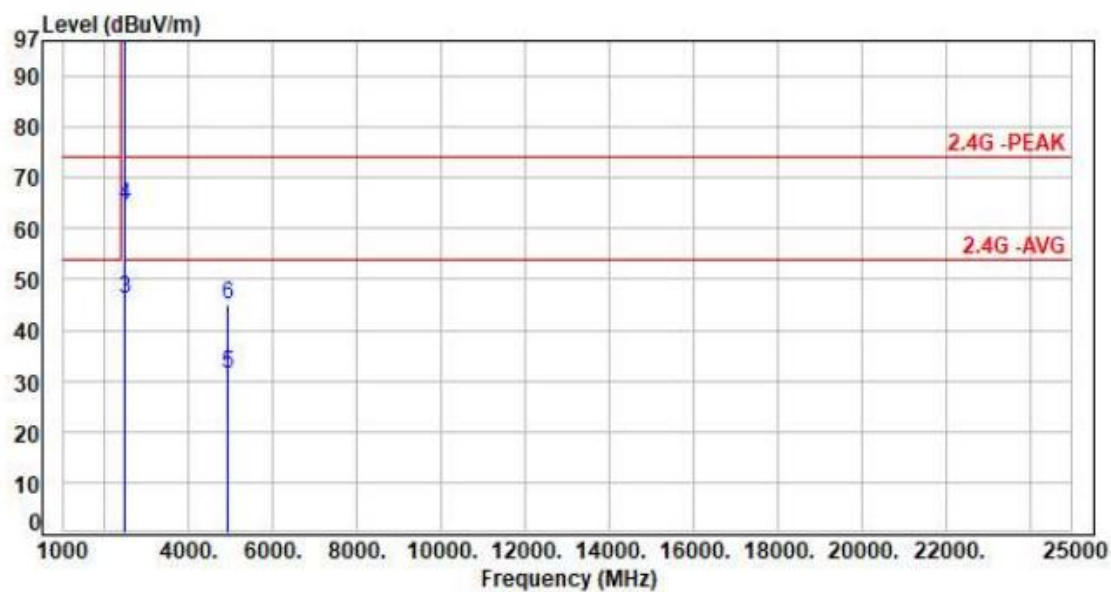
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	110.73	96.58	200.00	-103.42	Average	100	159	P
2	2462.00	-14.15	120.44	106.29	200.00	-93.71	Peak	100	159	P
3	2483.50	-14.12	60.36	46.24	54.00	-7.76	Average	100	159	P
4	2483.50	-14.12	78.49	64.37	74.00	-9.63	Peak	100	159	P
5	4924.00	-7.98	39.43	31.45	54.00	-22.55	Average	106	35	P
6	4924.00	-7.98	53.00	45.02	74.00	-28.98	Peak	106	35	P

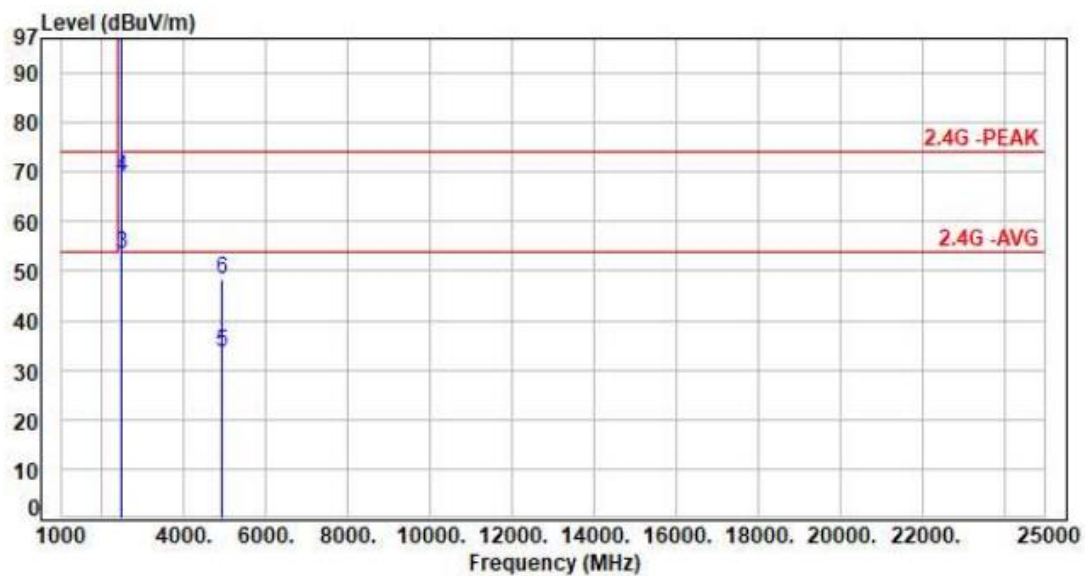
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	113.75	99.60	200.00	-100.40	Average	191	161	P
2	2462.00	-14.15	124.33	110.18	200.00	-89.82	Peak	191	161	P
3	2483.50	-14.12	67.45	53.33	54.00	-0.67	Average	191	161	P
4	2483.50	-14.12	83.00	68.88	74.00	-5.12	Peak	191	161	P
5	4924.00	-7.98	41.42	33.44	54.00	-20.56	Average	100	193	P
6	4924.00	-7.98	56.43	48.45	74.00	-25.55	Peak	100	193	P

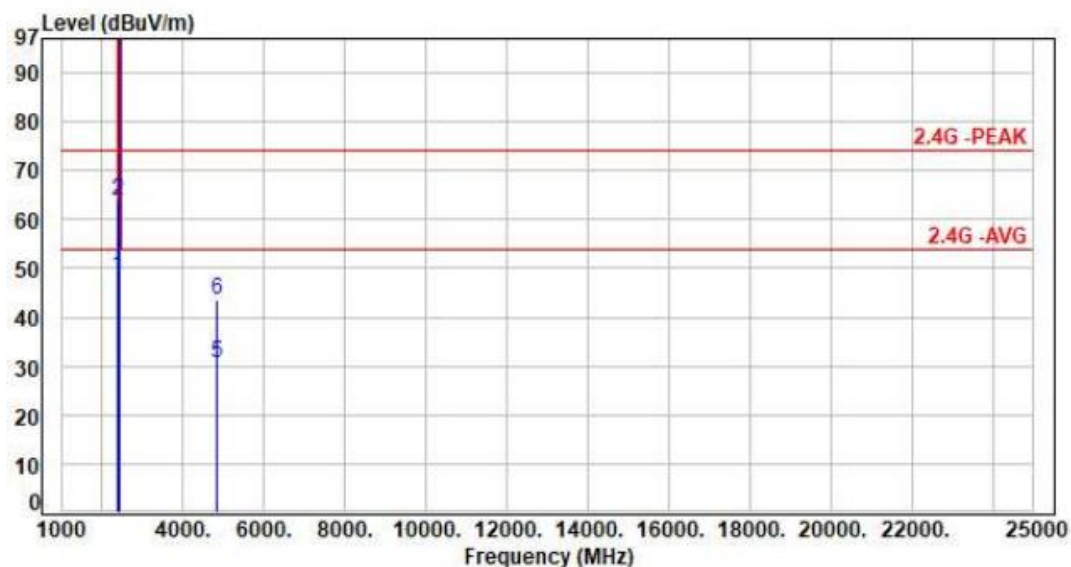
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01		:



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	-14.19	62.34	48.15	54.00	-5.85	Average	100	203	P
2	2390.00	-14.19	78.07	63.88	74.00	-10.12	Peak	100	203	P
3	2412.00	-14.21	111.12	96.91	200.00	-103.09	Average	100	203	P
4	2412.00	-14.21	120.70	106.49	200.00	-93.51	Peak	100	203	P
5	4824.00	-8.30	38.87	30.57	54.00	-23.43	Average	144	39	P
6	4824.00	-8.30	51.98	43.68	74.00	-30.32	Peak	144	39	P

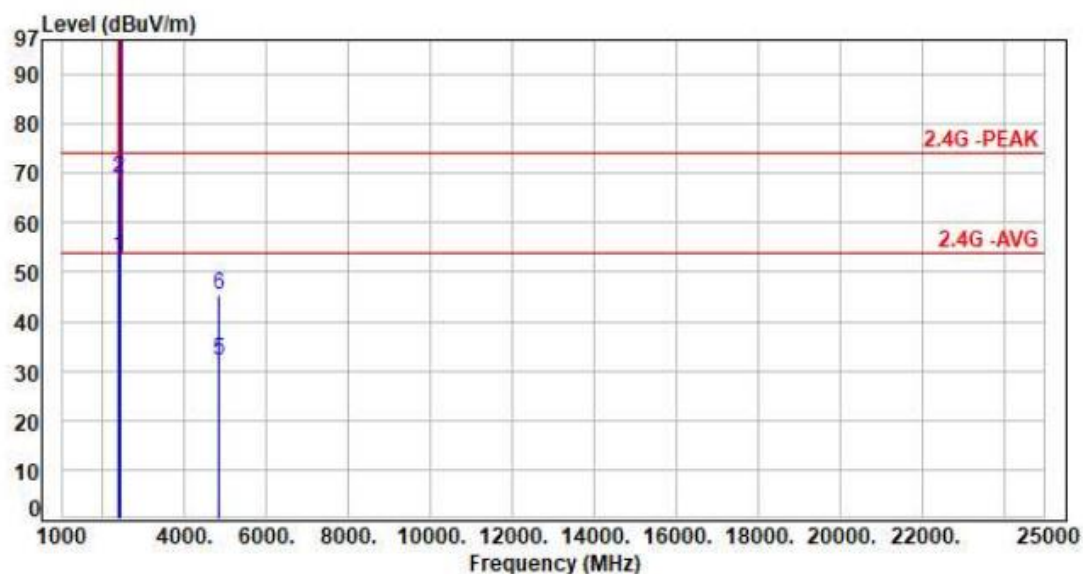
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH01		:



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	-14.19	67.42	53.23	54.00	-0.77	Average	155	173	P
2	2390.00	-14.19	83.19	69.00	74.00	-5.00	Peak	155	173	P
3	2412.00	-14.21	112.85	98.64	200.00	-101.36	Average	155	173	P
4	2412.00	-14.21	122.25	108.04	200.00	-91.96	Peak	155	173	P
5	4824.00	-8.30	40.27	31.97	54.00	-22.03	Average	100	174	P
6	4824.00	-8.30	53.80	45.50	74.00	-28.50	Peak	100	174	P

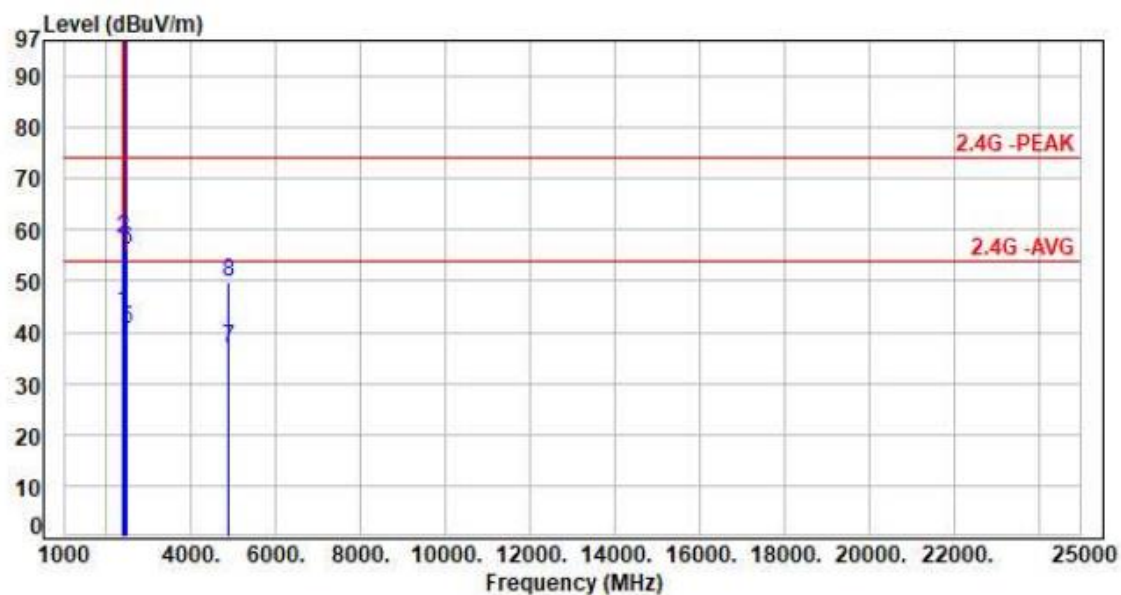
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH06		:



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	-14.19	57.94	43.75	54.00	-10.25	Average	100	179	P
2	2390.00	-14.19	72.51	58.32	74.00	-15.68	Peak	100	179	P
3	2437.00	-14.18	114.64	100.46	200.00	-99.54	Average	100	179	P
4	2437.00	-14.18	124.68	110.50	200.00	-89.50	Peak	100	179	P
5	2483.50	-14.12	54.61	40.49	54.00	-13.51	Average	100	179	P
6	2483.50	-14.12	70.29	56.17	74.00	-17.83	Peak	100	179	P
7	4874.00	-8.14	44.92	36.78	54.00	-17.22	Average	131	39	P
8	4874.00	-8.14	58.00	49.86	74.00	-24.14	Peak	131	39	P

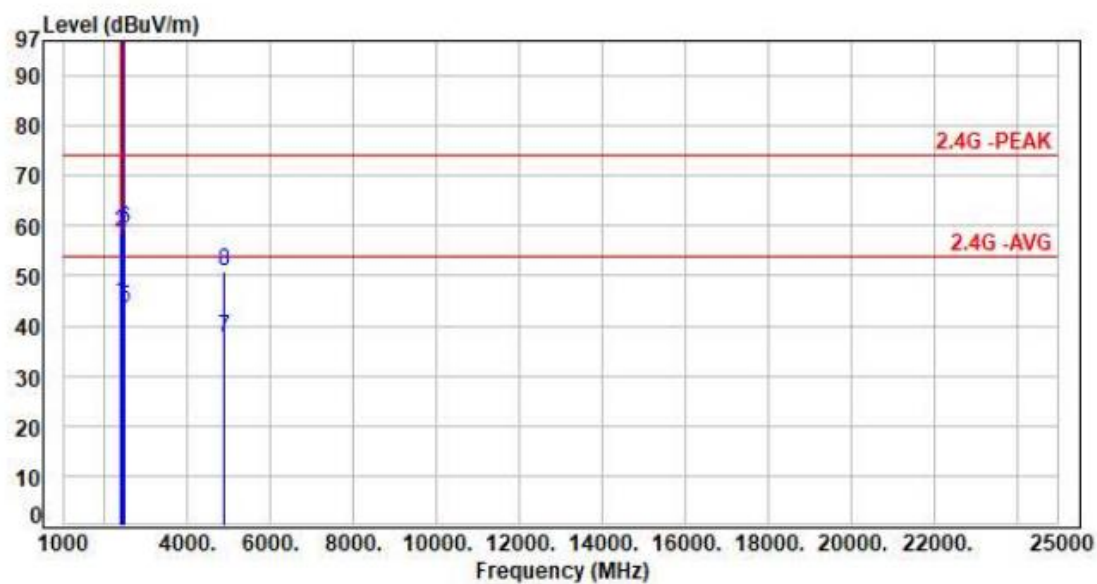
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH06		:



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	-14.19	58.70	44.51	54.00	-9.49	Average	116	173	P
2	2390.00	-14.19	72.78	58.59	74.00	-15.41	Peak	116	173	P
3	2437.00	-14.18	116.55	102.37	200.00	-97.63	Average	116	173	P
4	2437.00	-14.18	126.16	111.98	200.00	-88.02	Peak	116	173	P
5	2483.50	-14.12	57.78	43.66	54.00	-10.34	Average	116	173	P
6	2483.50	-14.12	73.48	59.36	74.00	-14.64	Peak	116	173	P
7	4874.00	-8.14	45.79	37.65	54.00	-16.35	Average	100	194	P
8	4874.00	-8.14	58.94	50.80	74.00	-23.20	Peak	100	194	P

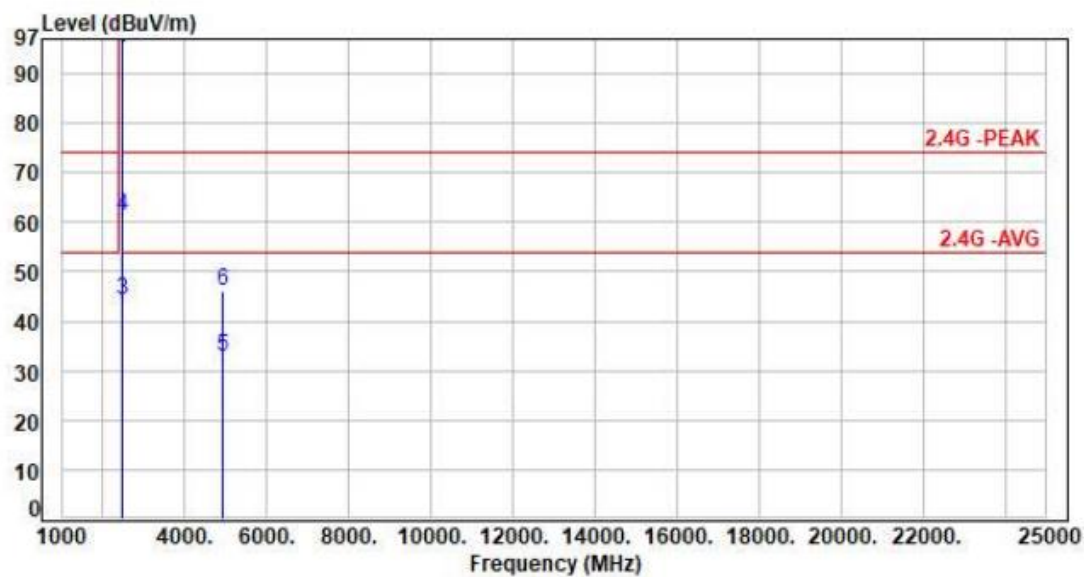
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	109.29	95.14	200.00	-104.86	Average	100	180	P
2	2462.00	-14.15	118.70	104.55	200.00	-95.45	Peak	100	180	P
3	2483.50	-14.12	58.36	44.24	54.00	-9.76	Average	100	180	P
4	2483.50	-14.12	75.41	61.29	74.00	-12.71	Peak	100	180	P
5	4924.00	-7.98	40.68	32.70	54.00	-21.30	Average	181	35	P
6	4924.00	-7.98	54.01	46.03	74.00	-27.97	Peak	181	35	P

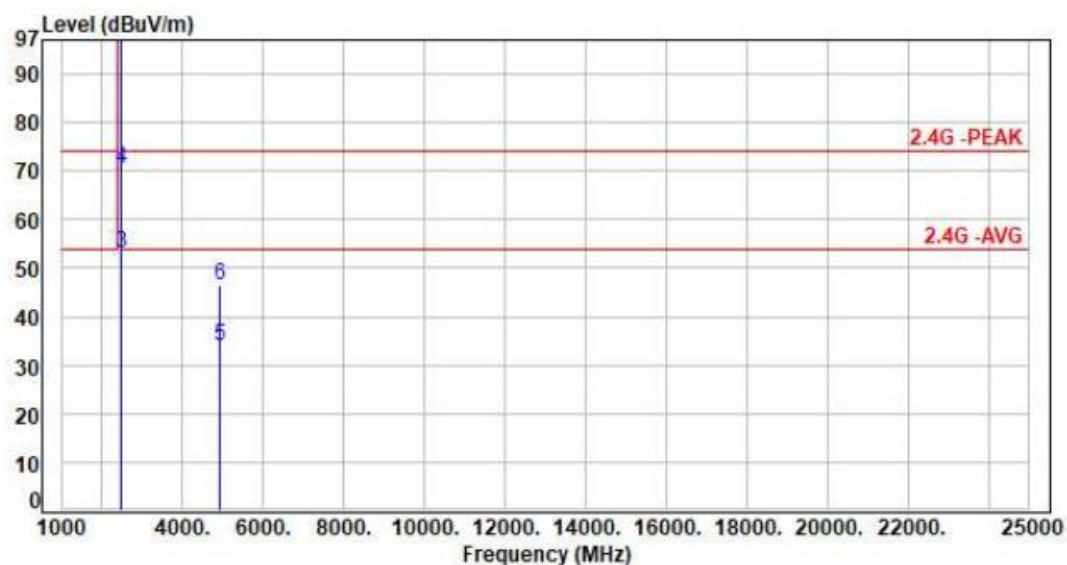
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-14.15	112.49	98.34	200.00	-101.66	Average	114	174	P
2	2462.00	-14.15	121.95	107.80	200.00	-92.20	Peak	114	174	P
3	2483.50	-14.12	67.28	53.16	54.00	-0.84	Average	114	174	P
4	2483.50	-14.12	84.59	70.47	74.00	-3.53	Peak	114	174	P
5	4924.00	-7.98	41.78	33.80	54.00	-20.20	Average	117	195	P
6	4924.00	-7.98	54.44	46.46	74.00	-27.54	Peak	117	195	P

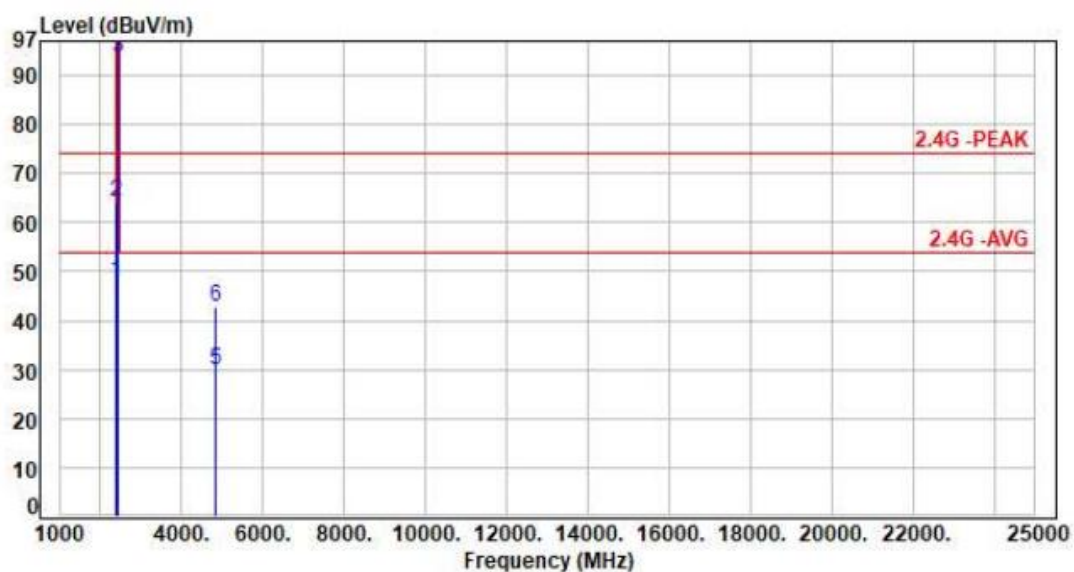
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH03		:



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	-14.19	62.07	47.88	54.00	-6.12	Average	100	181	P
2	2390.00	-14.19	78.30	64.11	74.00	-9.89	Peak	100	181	P
3	2422.00	-14.20	107.76	93.56	200.00	-106.44	Average	100	181	P
4	2422.00	-14.20	116.50	102.30	200.00	-97.70	Peak	100	181	P
5	4844.00	-8.19	38.00	29.81	54.00	-24.19	Average	243	38	P
6	4844.00	-8.19	50.88	42.69	74.00	-31.31	Peak	243	38	P

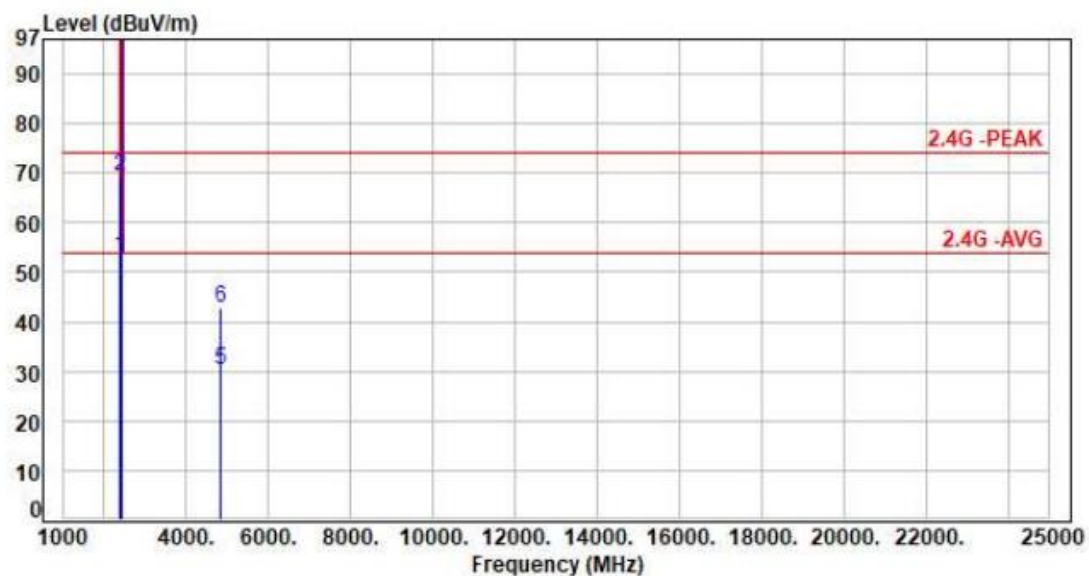
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH03		:



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	-14.19	67.35	53.16	54.00	-0.84	Average	165	179	P
2	2390.00	-14.19	83.46	69.27	74.00	-4.73	Peak	165	179	P
3	2422.00	-14.20	109.57	95.37	200.00	-104.63	Average	165	179	P
4	2422.00	-14.20	118.35	104.15	200.00	-95.85	Peak	165	179	P
5	4844.00	-8.19	38.47	30.28	54.00	-23.72	Average	100	173	P
6	4844.00	-8.19	51.07	42.88	74.00	-31.12	Peak	100	173	P

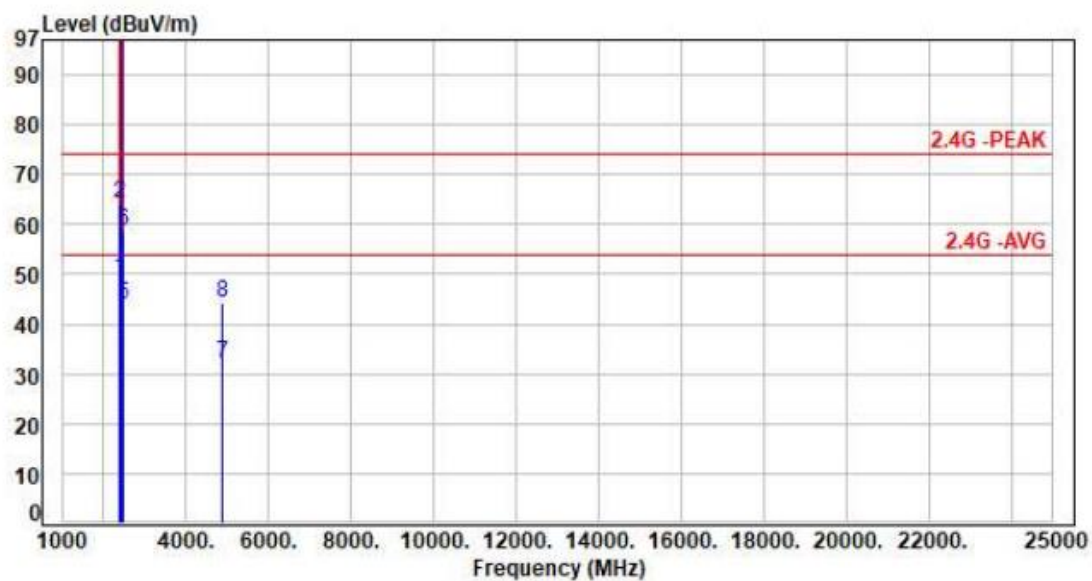
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH06		:



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	-14.19	63.31	49.12	54.00	-4.88	Average	100	180	P
2	2390.00	-14.19	78.51	64.32	74.00	-9.68	Peak	100	180	P
3	2437.00	-14.18	111.17	96.99	200.00	-103.01	Average	100	180	P
4	2437.00	-14.18	119.91	105.73	200.00	-94.27	Peak	100	180	P
5	2483.50	-14.12	58.10	43.98	54.00	-10.02	Average	100	180	P
6	2483.50	-14.12	72.72	58.60	74.00	-15.40	Peak	100	180	P
7	4874.00	-8.14	40.22	32.08	54.00	-21.92	Average	242	37	P
8	4874.00	-8.14	52.58	44.44	74.00	-29.56	Peak	242	37	P

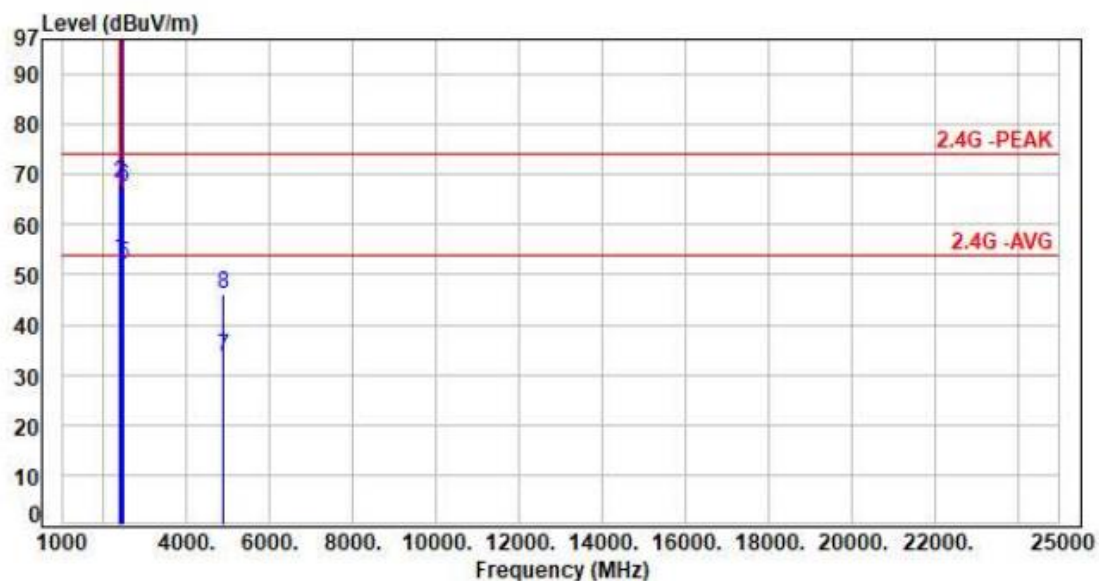
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH06		:



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	-14.19	67.24	53.05	54.00	-0.95	Average	120	174	P
2	2390.00	-14.19	82.25	68.06	74.00	-5.94	Peak	120	174	P
3	2437.00	-14.18	113.43	99.25	200.00	-100.75	Average	120	174	P
4	2437.00	-14.18	122.39	108.21	200.00	-91.79	Peak	120	174	P
5	2483.50	-14.12	66.09	51.97	54.00	-2.03	Average	120	174	P
6	2483.50	-14.12	81.44	67.32	74.00	-6.68	Peak	120	174	P
7	4874.00	-8.14	41.85	33.71	54.00	-20.29	Average	100	193	P
8	4874.00	-8.14	54.19	46.05	74.00	-27.95	Peak	100	193	P

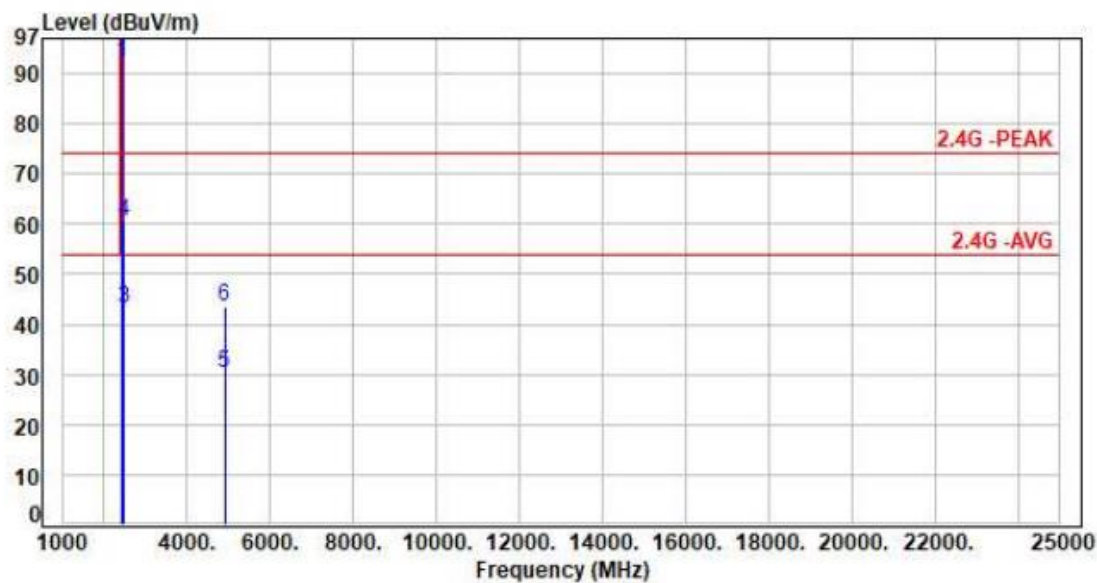
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH09		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-14.16	106.21	92.05	200.00	-107.95	Average	100	181	P
2	2452.00	-14.16	114.89	100.73	200.00	-99.27	Peak	100	181	P
3	2483.50	-14.12	57.17	43.05	54.00	-10.95	Average	100	181	P
4	2483.50	-14.12	74.45	60.33	74.00	-13.67	Peak	100	181	P
5	4904.00	-8.08	38.33	30.25	54.00	-23.75	Average	211	40	P
6	4904.00	-8.08	51.65	43.57	74.00	-30.43	Peak	211	40	P

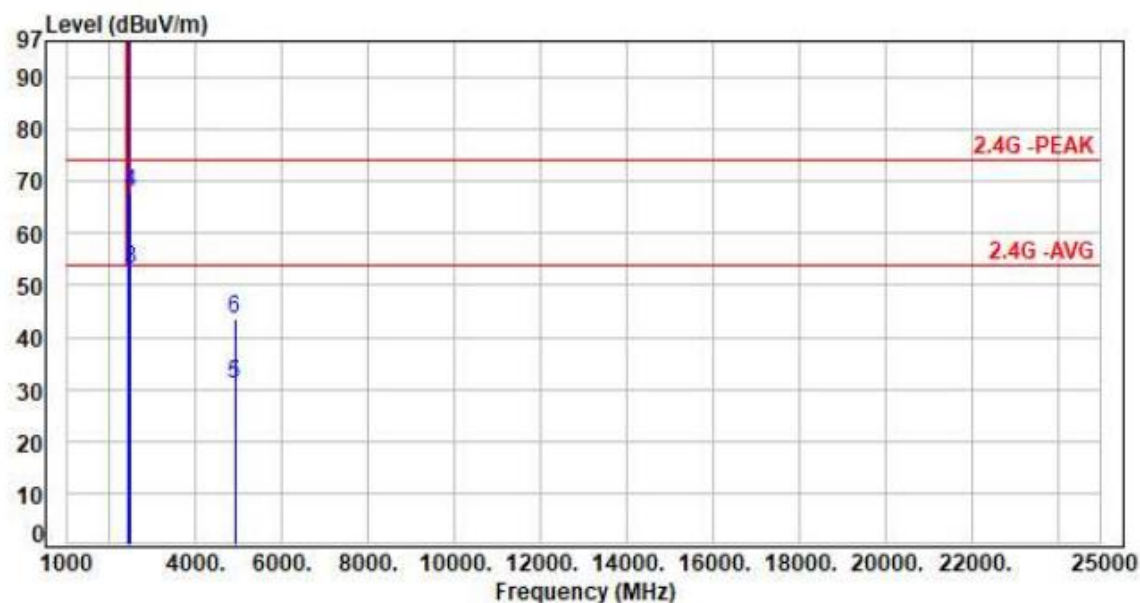
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH09		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-14.16	109.89	95.73	200.00	-104.27	Average	122	176	P
2	2452.00	-14.16	118.46	104.30	200.00	-95.70	Peak	122	176	P
3	2483.50	-14.12	67.30	53.18	54.00	-0.82	Average	122	176	P
4	2483.50	-14.12	81.97	67.85	74.00	-6.15	Peak	122	176	P
5	4904.00	-8.08	39.08	31.00	54.00	-23.00	Average	100	197	P
6	4904.00	-8.08	51.67	43.59	74.00	-30.41	Peak	100	197	P

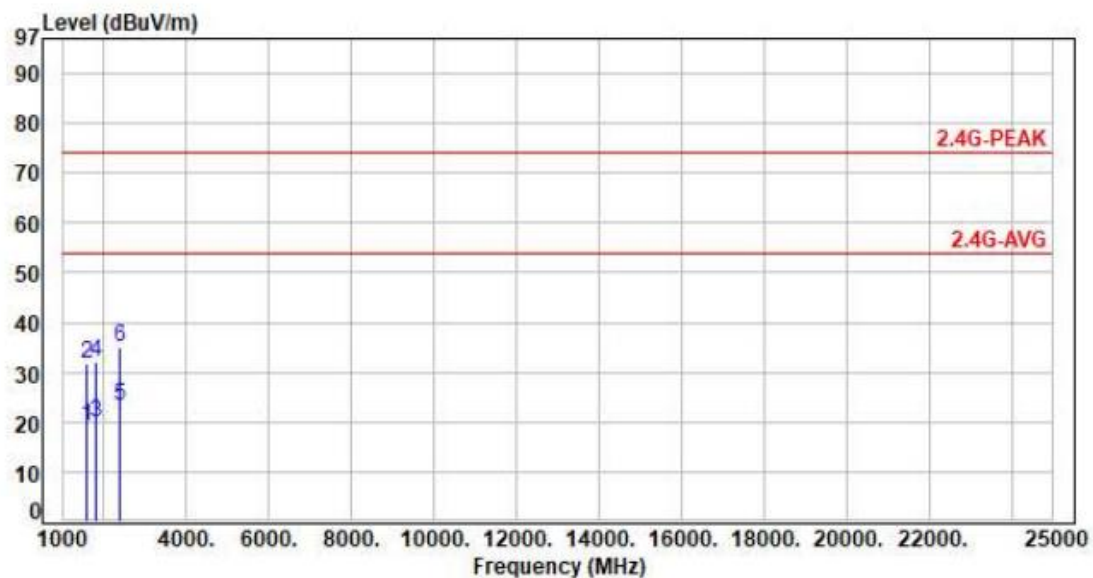
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH01		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1600.00	-17.84	37.18	19.34	54.00	-34.66	Average	100	121	P
2	1600.00	-17.84	49.51	31.67	74.00	-42.33	Peak	100	121	P
3	1800.00	-17.41	37.26	19.85	54.00	-34.15	Average	100	218	P
4	1800.00	-17.41	49.66	32.25	74.00	-41.75	Peak	100	218	P
5	2400.00	-14.22	37.33	23.11	54.00	-30.89	Average	100	186	P
6	2400.00	-14.22	49.44	35.22	74.00	-38.78	Peak	100	186	P

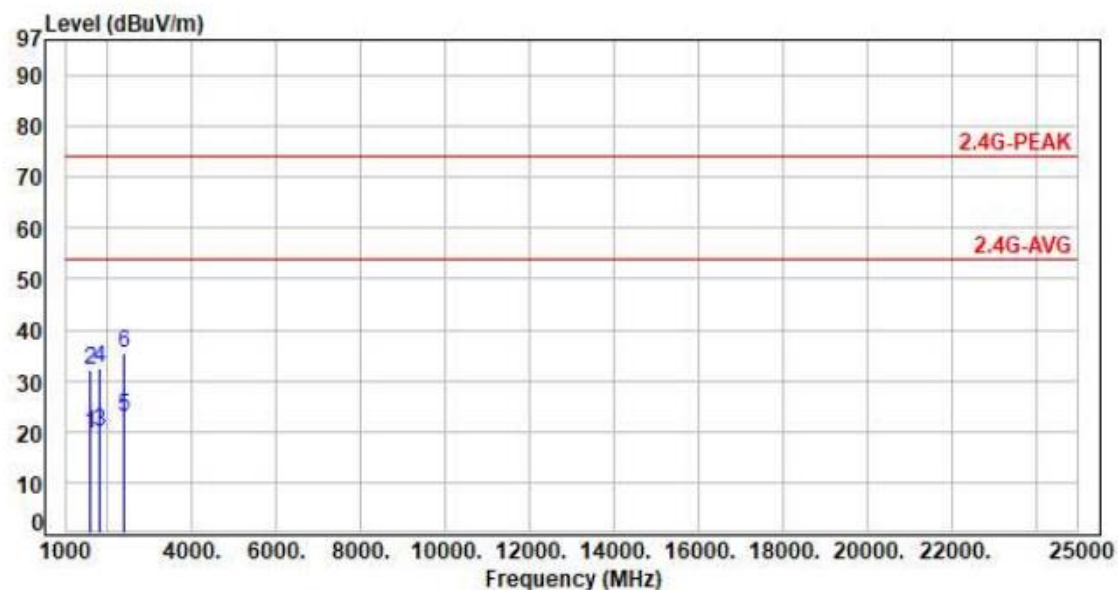
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1600.00	-17.84	37.31	19.47	54.00	-34.53	Average	100	110	P
2	1600.00	-17.84	49.82	31.98	74.00	-42.02	Peak	100	110	P
3	1800.00	-17.41	37.28	19.87	54.00	-34.13	Average	100	165	P
4	1800.00	-17.41	49.78	32.37	74.00	-41.63	Peak	100	165	P
5	2400.00	-14.22	37.22	23.00	54.00	-31.00	Average	100	236	P
6	2400.00	-14.22	49.54	35.32	74.00	-38.68	Peak	100	236	P

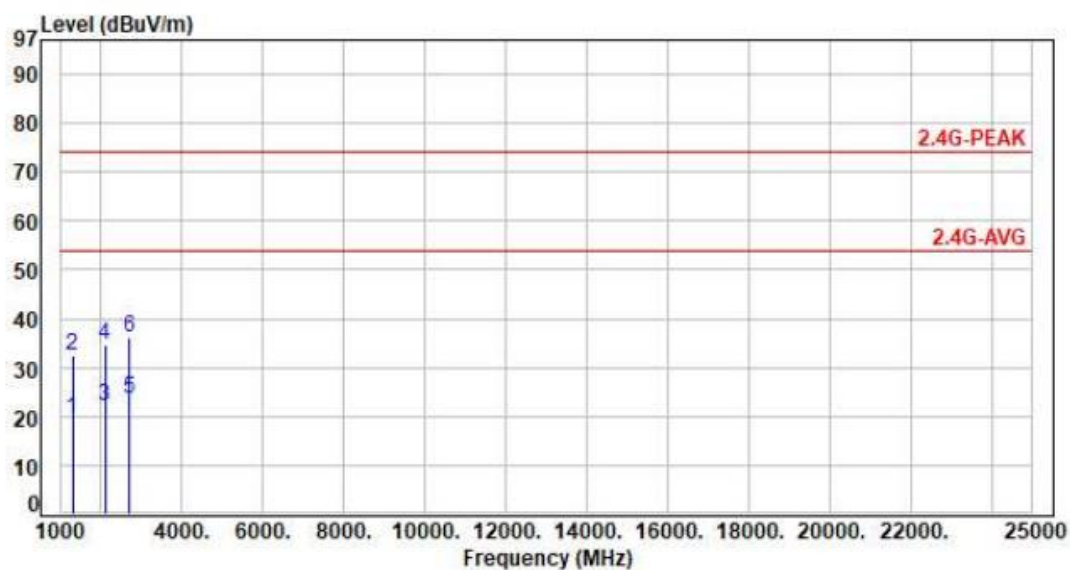
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH06		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1300.00	-17.30	36.97	19.67	54.00	-34.33	Average	100	89	P
2	1300.00	-17.30	49.63	32.33	74.00	-41.67	Peak	100	89	P
3	2100.00	-15.16	37.18	22.02	54.00	-31.98	Average	100	312	P
4	2100.00	-15.16	49.79	34.63	74.00	-39.37	Peak	100	312	P
5	2700.00	-13.63	37.08	23.45	54.00	-30.55	Average	100	248	P
6	2700.00	-13.63	49.73	36.10	74.00	-37.90	Peak	100	248	P

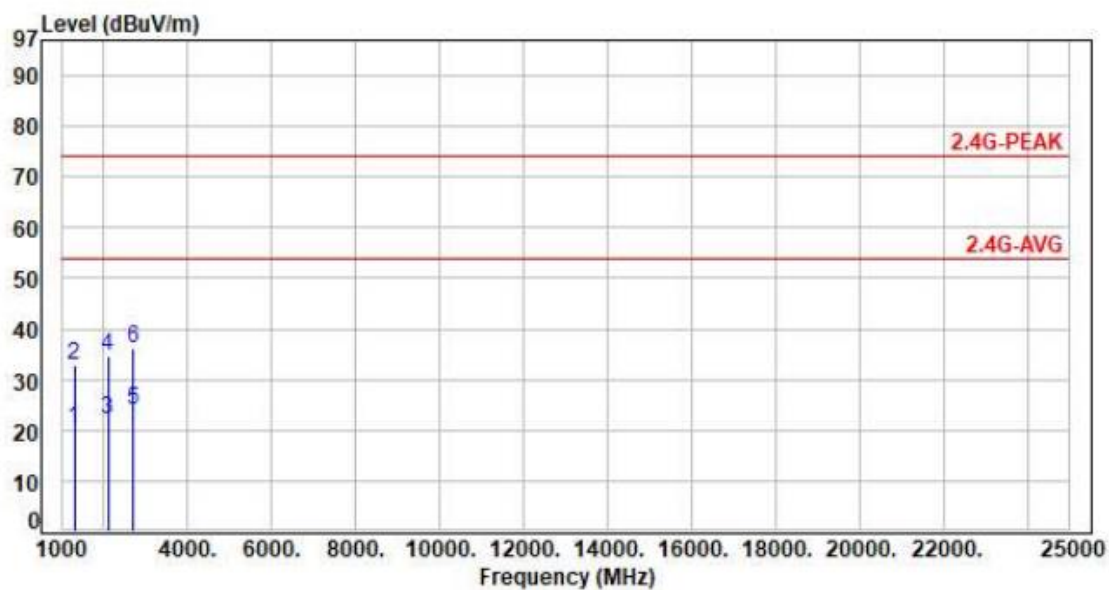
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH06		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1300.00	-17.30	37.48	20.18	54.00	-33.82	Average	100	158	P
2	1300.00	-17.30	50.11	32.81	74.00	-41.19	Peak	100	158	P
3	2100.00	-15.16	37.38	22.22	54.00	-31.78	Average	100	172	P
4	2100.00	-15.16	49.71	34.55	74.00	-39.45	Peak	100	172	P
5	2700.00	-13.63	37.44	23.81	54.00	-30.19	Average	100	295	P
6	2700.00	-13.63	49.92	36.29	74.00	-37.71	Peak	100	295	P

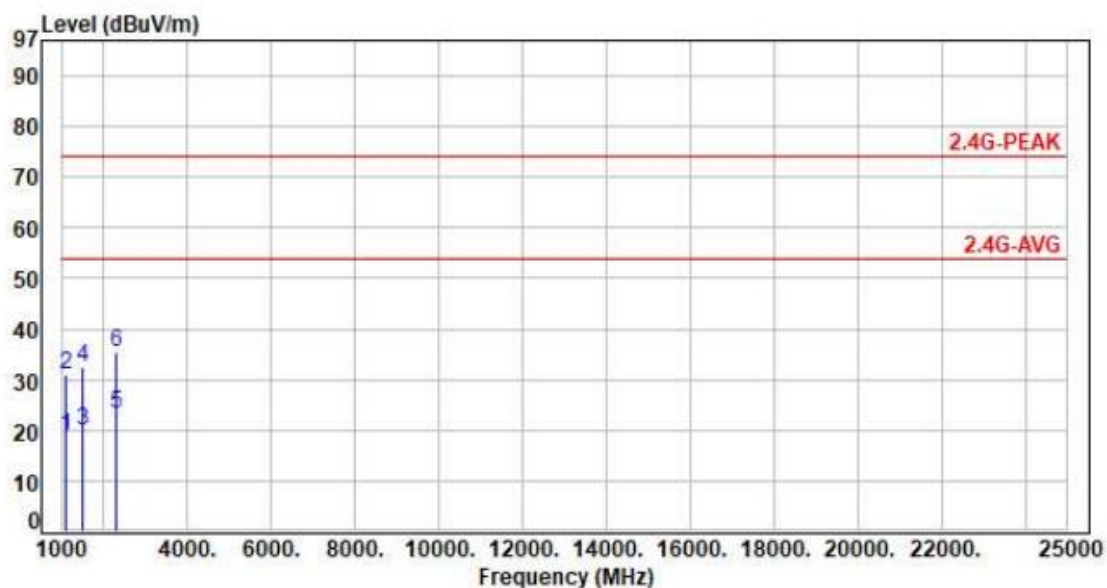
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1100.00	-18.74	37.37	18.63	54.00	-35.37	Average	100	243	P
2	1100.00	-18.74	49.71	30.97	74.00	-43.03	Peak	100	243	P
3	1500.00	-17.36	37.31	19.95	54.00	-34.05	Average	100	348	P
4	1500.00	-17.36	49.81	32.45	74.00	-41.55	Peak	100	348	P
5	2300.00	-14.13	37.28	23.15	54.00	-30.85	Average	100	198	P
6	2300.00	-14.13	49.48	35.35	74.00	-38.65	Peak	100	198	P

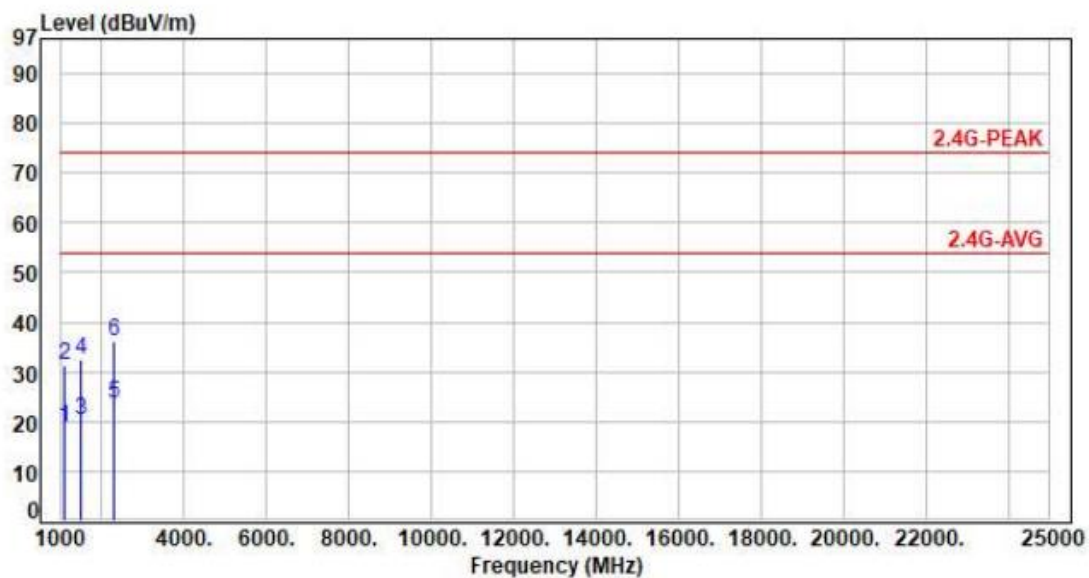
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V/60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, CH11		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	1100.00	-18.74	37.50	18.76	54.00	-35.24	Average	100	115	P
2	1100.00	-18.74	50.05	31.31	74.00	-42.69	Peak	100	115	P
3	1500.00	-17.36	37.79	20.43	54.00	-33.57	Average	100	148	P
4	1500.00	-17.36	49.93	32.57	74.00	-41.43	Peak	100	148	P
5	2300.00	-14.13	37.68	23.55	54.00	-30.45	Average	100	261	P
6	2300.00	-14.13	50.13	36.00	74.00	-38.00	Peak	100	261	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor