

低功率射頻電機試驗報告

申請廠商	漢威聯合股份有限公司
	新北市板橋區遠東路3號5樓
製造廠商	Honeywell International Inc.
產品名稱	資料收集電腦
廠牌	Honeywell
型號	VM1A-L0N
發射功率	BT V4.0 mode 0.87 dBm (Peak) BT V5.0 mode 1.12 dBm (Peak)
工作頻率	2402MHz – 2480MHz
調變方式	BT V5.0 & V4.0 LE mode (GFSK)
法規	LP0002, 3.10.1節

實驗室資訊

程智科技股份有限公司 五股實驗室

新北市五股區五工六路11號

認證有效期間：105年10月18日起至108年10月17日止

受理日期 民國108年04月30日

完成日期 民國108年07月12日

蔡永譚



報告簽署人
蔡永譚 簽章

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190430W01-RD3	Rev.00	Initial creation of document	All	May 17, 2019	Elle Chang
T190430W01-RD3	Rev.01	Add cradle information and fully system data	Page 3, 7, 9, 13~14, 16, 27~28, 33~34, 47~48, 61~62, 111~114	Jul. 12, 2019	Elle Chang

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測試標準

國家通訊傳播委員會低功率射頻電機技術規範

民國 107 年 1 月 10 日版本

待測裝置已於程智科技股份有限公司 五股實驗室，依據國家通訊傳播委員會於中華民國一百零七年一月頒佈之低功率射頻電機技術規範測試。

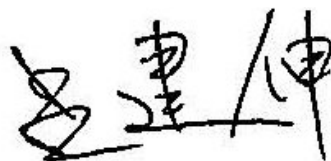
程智科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

程智科技股份有限公司依低功率射頻電機技術規範審驗要點規範製作測試結果報告，測試結果評判為 合格。

備註：

1. 報告中所描述之測試結果和待測設備的架構組合，均根據實際量測情況作詳實的記錄，且本測試報告僅對上述待測設備樣品負責。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。
3. 基座系列申請，主型號: VM3D 與系列型號: VM1D，主要差異在於(1)設備外觀 (2)電路設計 (3)使用元件、線材、模組、材料 (4)使用元件位置、走線、結構不同，該產品確認符合系列產品，技術規格及射頻性能相同，詳見系列差異說明書。

測試人員：

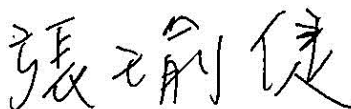


日期：

07/12/2019

呂建伸 / 工程師

報告製作：



日期：

07/12/2019

張瑜健 / 行政

報告審核：



日期：

07/12/2019

蔡永譚 / 副理

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測試實驗室資料:

實驗室認可登錄 : 中華民國實驗室認證體系

認可編號 : TAF 1309, 認可頻率範圍9kHz ~ 40GHz

認證有效期間 : 105年10月18日起至108年10月17日止

測試場地 : 新北市五股區五工六路11號

實驗室名稱 : 程智科技股份有限公司
五股實驗室

實驗室地址 : 新北市五股區五工六路11號

電話 : 886-2-22999720

傳真 : 886-2-22981882

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實驗室之量測不確定度

測試項目	測試場地 / 測試頻率	不確定度(dB)
傳導干擾電壓量測	Powerline Conducted Emission	+/-1.2575
輻射干擾場強量測 (測試距離: 3m)	3M Semi Anechoic Chamber / 30MHz ~ 200MHz	+/- 4.12
	3M Semi Anechoic Chamber / 200MHz ~ 1GHz	+/- 4.68
	3M Semi Anechoic Chamber / 1GHz ~ 8GHz	+/- 5.18
	3M Semi Anechoic Chamber / 8GHz ~ 18GHz	+/- 5.47
	3M Semi Anechoic Chamber / 18GHz ~ 26GHz	+/- 3.81
	3M Semi Anechoic Chamber / 26GHz ~ 40GHz	+/- 3.87

附註: K=2 即代表測試結果具有95%的量測可信度。

符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度

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目錄

1	一般資料	7
2	適用規範	10
3	受測裝置之系統說明	13
4	量測儀器設備	15
5	電源線傳導干擾之量測	17
6	場強輻射之量測	20
7	天線增益之要求	79
8	發射頻寬之要求	80
9	輸出峰值功率之量測	83
10	開放頻帶邊緣 100KHZ 頻寬內之限制	85
11	功率密度之量測	105

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1 一般資料

1.1 產品描述

產品名稱	資料收集電腦	
型號	VM1A-L0N	
產品商標	Honeywell	
基座(標準型)	Brand Name: Honeywell / Model No.: VM1D	
基座(增強型)	Brand Name: Honeywell / Model No.: VM3D	
Product HW/SW Version:	VM1AL0N / 85.00.00-0322	
Radio HW/SW Version:	V1.0 / V5.1.1.28U	
使用電源	10.8Vdc from Rechargeable Li-ion Battery or 15Vdc from AC/DC Adapter.	
	Battery:	Model No.: 163176-0001 Rev C / OVT310L1R00 C Supplier: TOTEX
	Adapter:	Model: GT-46600-6015-T3 Supplier: GlobTek, Inc.

發射頻帶	2402MHz – 2480MHz
輸出功率	BT V4.0 mode 0.87 dBm (Peak) BT V5.0 mode 1.12 dBm (Peak)
調變方式	BT V4.0 & V5.0 dual mode LE (GFSK)
頻道數	40
天線型式/天線增益	1. Dipole Antenna, Supplier: LAIRD Model No: WTS2450 Gain: 2.1dBi (2.4G) 2. Dipole Antenna, Supplier: LARSEN Model No: R380500314 Gain: 1.6dBi (2.4G) 3. Printed Antenna Supplier: N/A Model No: N/A Chain0: Gain: 1.1dBi (2.4G)

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1.2 測試方法之依據

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電機技術規範(LP0002, 107.1.10 版本)如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI 63.10:2013、FCC CFR 47 15.247 之檢驗法。

低功率射頻電機技術規範3.10節

項次	測試項目	適用規範	測試結果	量測設備	備註
1	場強輻射	低功率射頻電機技術規範 3.10.1.5 節	請參閱6.5 節	請參閱4.1 節	合格
2	電源線傳導干擾	低功率射頻電機技術規範 2.3 節	請參閱5.5 節	請參閱4.3 節	合格
3	天線增益之要求	低功率射頻電機技術規範 3.10.1.3 (1) 節	請參閱7.2 節	-----	合格
4	發頻頻寬	低功率射頻電機技術規範 3.10.1.6(2) (A) 節	請參閱8.3 節	請參閱4.2 節	合格
5	輸出峰值功率	低功率射頻電機技術規範 3.10.1.2(1) (C) 節	請參閱9.3 節	請參閱4.2 節	合格
6	開放頻帶邊緣之發射	低功率射頻電機技術規範 3.10.1.5 節	請參閱10.3 節	請參閱4.2 節	合格
7	功率密度	低功率射頻電機技術規範 3.10.1.6(2) (B) 節	請參閱11.3 節	請參閱4.2 節	合格

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*測試模式

AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in fully system mode

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

RADIATED EMISSION TEST	
Test Condition	Operation Mode
Fully System	Fully System

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth LE	0 to 39	0,20,39	GFSK	1
Bluetooth LE	0 to 39	0,20,39	GFSK	2

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2 適用規範

2.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 kHz 至 30MHz 之射頻電壓 (在電源端子每一電源線對接地點) 不得超過下表所列之限值。測量時應經過 50 μ H 及50 Ω 之電源線阻抗模擬網路 (LISN)。頻率重疊處，以較低限值為準。

頻率(MHz)	傳導限制值 (dBuV)	
	準峰值 (Quasi – peak)	平均值 (Average)
0.15 – 0.5	66 – 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) 輻射之規定

依據NCC低功率射頻電機技術規範3.10.5之要求，其他開放頻帶外不必要之輻射需符合2.8節之一般限制要求，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻率 MHz	測試距離 m	干擾限制 μ V/m	干擾限制 dB μ V/m
0.009 – 0.490	300	2,400/頻率 (kHz)	
0.490 – 1.705	30	24,000/頻率 (kHz)	
1.705 - 30	30	30	
30 - 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
960以上	3	500	54.0

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻電機技術規範2.7節之要求，任何低功率射頻電機之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻電機落於下表所列頻帶內之混附發射，其電場強度必須符合第2.8節的限制規定。

頻率 (MHz)	頻率 (MHz)	頻率 (MHz)
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	

(4) 依據NCC低功率射頻電機技術規範2.11節之要求，收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；送信機之輻射電場強度不得超過第2.8節之發射規定，且不得接收、解調第2.7節所列之頻率。

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2.2 規範要求 (特殊規定)

依據NCC低功率射頻電機技術規範3.10節 數位調變 (Digitally Modulated) 之要求，使用頻率為2.4 G至2.4835 GHz 及 5.725 GHz 至5.850 GHz

(A) 峰值輸出功率之要求

依據 NCC 低功率射頻電機技術規範 3.10.1.2(1) (A)(C)之規定，操作於 2400-2483.5 兆赫 (MHz)與 5725-5850 兆赫(MHz)之所有數位調變技術系統：1 瓦(W)以下。

除使用附件二之峰值輸出功率量測方式外，並得使用以最大傳導輸出功率(Maximum Conducted Output Power)作為量測方式。

最大傳導輸出功率，定義為發射器操作在最大功率時，輸出至所有天線及天線單元 (antenna elements) 之總發射功率對信號集 (signaling alphabet) 所有符號 (symbol) 之平均值。此平均值不含發射器停止或已降低發射功率位準之任何時間區段。器材可操作於不同調變模式等多種模式時，最大傳導輸出功率為各模式之總發射功率其中最高者。

(B) 天線增益之要求

依據NCC低功率射頻電機技術規範3.10.1.3之規定，進行固定式點對點操作時，應符合下列情現之一：依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作頻率為2400-2483.5 兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，操作頻率為5725-5850兆赫(MHz)者，其發射天線之方向性增益超過6dBi，不需降低最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

(C) 發射限制之要求

依據NCC低功率射頻電機技術規範3.10.1.5之規定，帶外發射限制：操作頻帶範圍外之任意100 kHz 內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之100 kHz 內的射頻功率，其衰減值限制如下：

(1) 輸出功率以附件二之峰值輸出功率方式測量者，至少須衰減20 dB，可使用射頻傳導或輻射方式測量。

(2) 輸出功率以3.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少須衰減30 dB。

此外，落於2.7 禁用頻段之輻射發射，應符合2.8 之規定。

(D) 頻寬之要求

依據NCC低功率射頻電機技術規範3.10.1.6(2) (A)規定，6dB之頻寬至少應500kHz。

(E) 功率密度之要求

依據NCC低功率射頻電機技術規範3.10.1.6(2) (B)規定，在使用頻率範圍之任意3千赫(kHz) 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於8dBm。

註：此產品為點對多點操作。

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3 受測裝置之系統說明

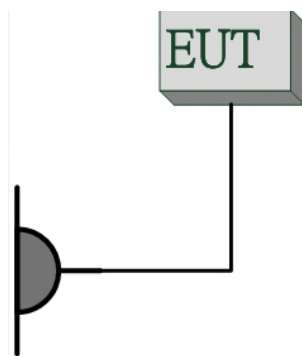
裝置名稱	製造者/申請者	型號
*資料收集電腦	Honeywell International Inc./ 漢威聯合股份有限公司	VM1A-L0N

標記：“*”表欲申請之受測物。

3.1 待測物與測試設備系統圖

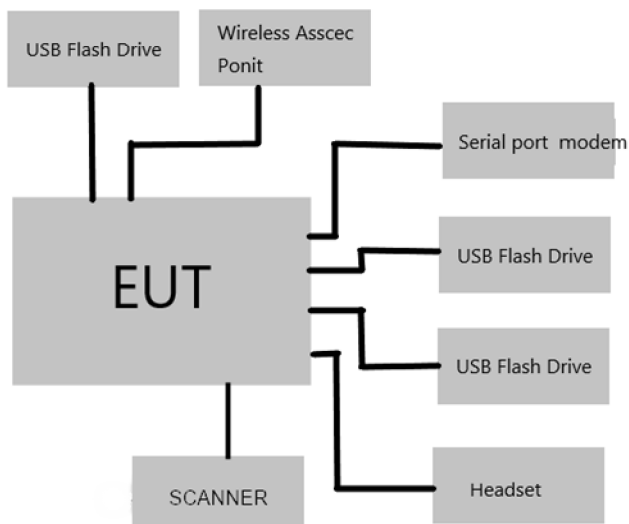
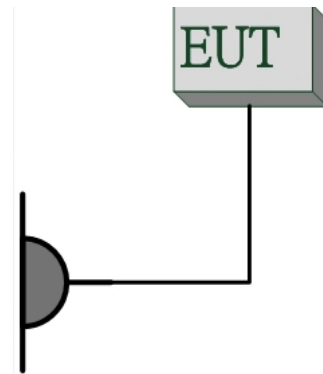
3.1.1 量測配置圖

Conducted (Antenna Port) & Radiated Emission



Fully System

Conduction (AC power line) Emission



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3.1 輔助測試週邊設備名稱描述

編號	產品別	商標	型號	序號	信號線	電源線
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A

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4 量測儀器設備

4.1 AC 電源端傳導干擾之量測儀器

Conduction (RF)					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

4.2 天線端傳導測試之量測儀器

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/13/2019	02/12/2020
DC Block	Mini-Circuits	BLK-18-S+	31129(1)	02/26/2019	02/25/2020
Attenuator	Mini-Circuit	BW-S10W2+	1	02/26/2019	02/25/2020
Power Meter	Anritsu	ML2496A	1242004	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207365	10/23/2018	10/22/2019
Power Sensor	Anritsu	MA2411B	1207368	10/24/2018	10/23/2019

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4.3 量測場強輻射之量測儀器

966A Chamber					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

註: 以上部份設備跟量測值沒有影響，且沒有直接關聯，因此不需要進行校正。

4.4 Fully System 測試之量測儀器

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Modem	LEMEL	MD-56KVC	N/A	N/A	N/A
EARPHONE	VOXWare	N/A	N/A	N/A	N/A
SCANNER	Honeywell	1900	18197B4BF9	N/A	N/A
FLASE DRIVER	Verbatim	32G	N/A	N/A	N/A
FLASE DRIVER	Verbatim	32G	N/A	N/A	N/A
FLASE DRIVER	SEAGATE	1TB	WL1M9FE3	N/A	N/A
Accece Ponit	LINKSYS	WRT3200ACM	1981060B614986	N/A	N/A

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5 電源線傳導干擾之量測

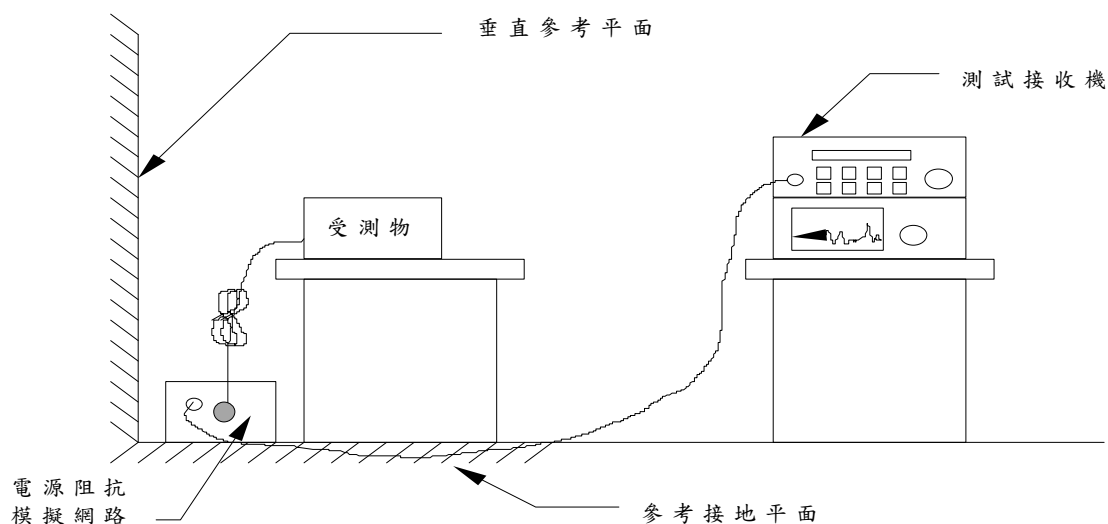
5.1 適用標準

依據NCC低功率射頻電機技術規範2.3節之要求。

5.2 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 之間之電源線傳導放射強度。

5.3 測試配置



5.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

$$\text{結果值} = \text{儀器讀值}(QP/AV) + \text{校正因子}$$

其中校正因子為：

$$\text{饋線損失} + \text{電源阻抗模擬網路損失}$$

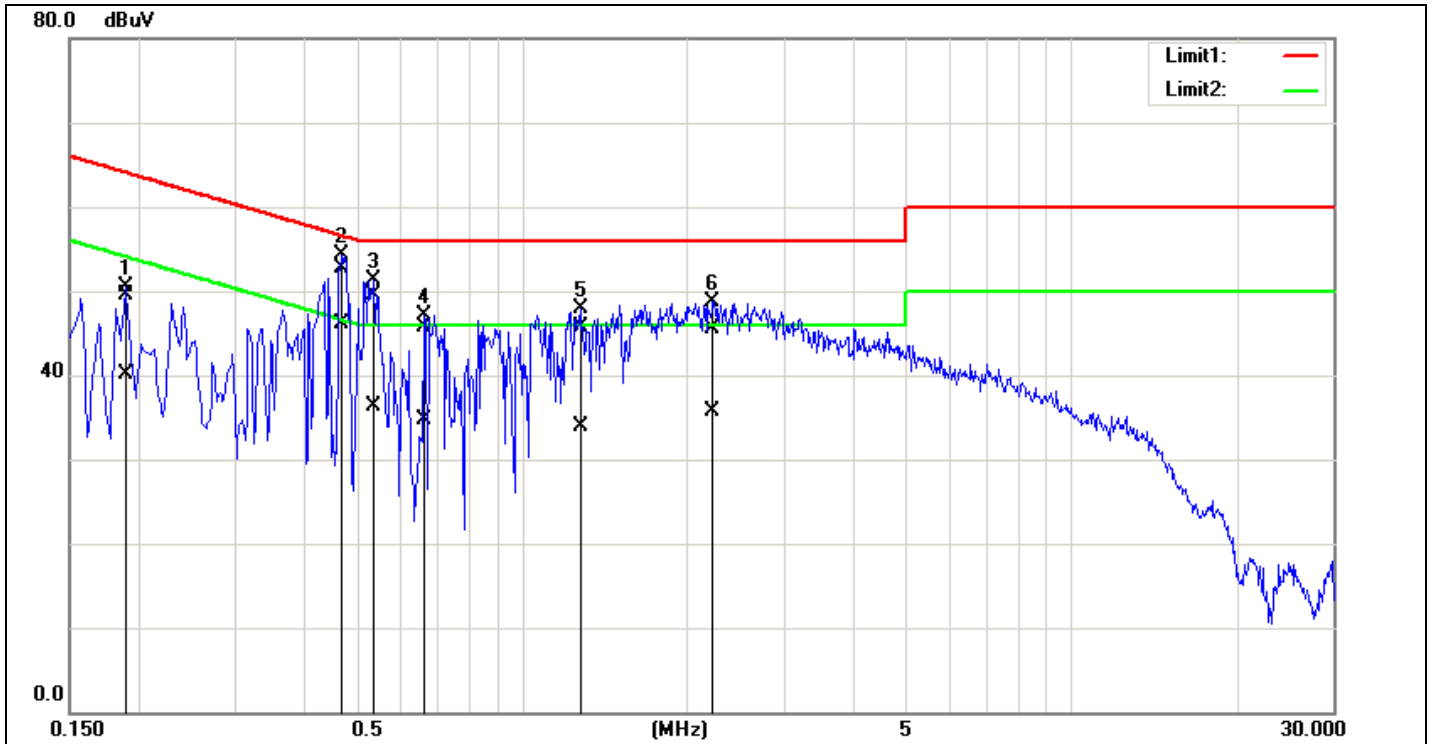
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5.5 傳導干擾之量測結果:

Description:	Operation	Date:	2019/5/13
Line:	L1	Temp.(°C)/Hum.(%):	24(°C)/50%
Test Voltage:	AC 110V/60Hz	Test By:	Gary



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1900	49.39	39.88	0.15	49.54	40.03	64.03	54.04	-14.49	-14.01	Pass
2*	0.4700	52.49	45.97	0.16	52.65	46.13	56.51	46.51	-3.86	-0.38	Pass
3	0.5380	49.25	36.08	0.16	49.41	36.24	56.00	46.00	-6.59	-9.76	Pass
4	0.6660	45.49	34.58	0.16	45.65	34.74	56.00	46.00	-10.35	-11.26	Pass
5	1.2820	45.53	33.74	0.19	45.72	33.93	56.00	46.00	-10.28	-12.07	Pass
6	2.2340	45.19	35.48	0.22	45.41	35.70	56.00	46.00	-10.59	-10.30	Pass

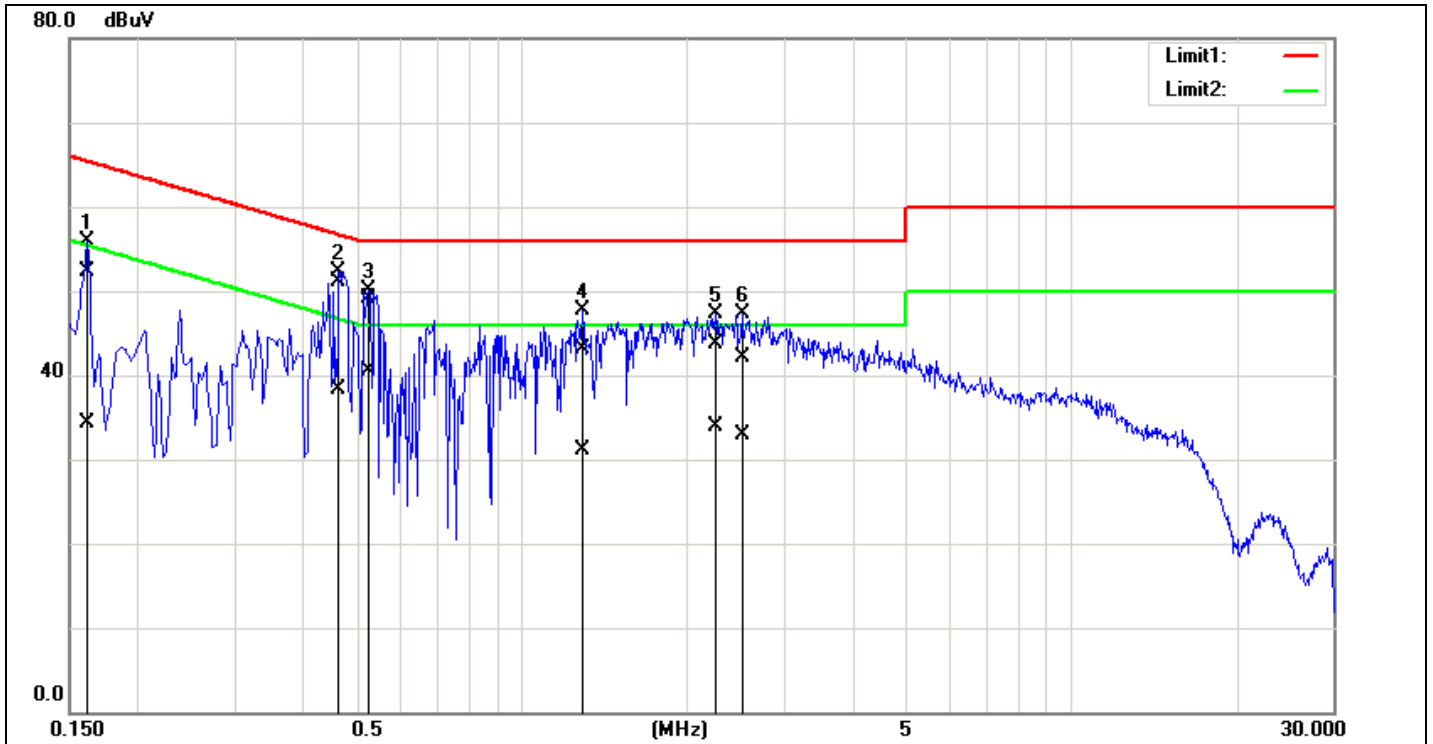
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Description: Operation
Line: N
Test Voltage: AC 110V/60Hz

Date: 2019/5/13
Temp.(°C)/Hum.(%): 24(°C)/50%
Test By: Gary



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	52.14	34.29	0.10	52.24	34.39	65.36	55.36	-13.12	-20.97	Pass
2*	0.4660	51.07	38.29	0.11	51.18	38.40	56.58	46.58	-5.40	-8.18	Pass
3	0.5260	49.03	40.36	0.11	49.14	40.47	56.00	46.00	-6.86	-5.53	Pass
4	1.2940	42.98	31.02	0.14	43.12	31.16	56.00	46.00	-12.88	-14.84	Pass
5	2.2500	43.53	33.67	0.16	43.69	33.83	56.00	46.00	-12.31	-12.17	Pass
6	2.5220	42.00	32.65	0.18	42.18	32.83	56.00	46.00	-13.82	-13.17	Pass

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6 場強輻射之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.5之要求，其他開放頻帶外不必要之輻射干擾需符合2.8節之一般限制要求。

6.2 量測方法

將待測物置於非金屬桌面，測試頻率1GHz以下時，使用桌高0.8 米，1GHz以上時，使用桌高1.5米，使其在工作狀態，接收天線置於 3 米外相同的高度。待測物分別要垂直或水平放置，而且桌面要 360 度旋轉，另外接收天線也要從 1.0 米至 4.0 米升降變化，以找出最大的輻射電場強度，接收天線置於水平、垂直極向各執行測試一次。

1GHz 以下先進行Peak 值量測，若Peak 以低於QP 限制值將不在進行QP 量測，否則，則進行QP 值量測，1GHz 以上先進行Peak 值量測，若Peak 以低於AV 限制值將不在進行AV值量測，否則，則進行AV 值量測。

9kHz~150kHz 測試

解析頻寬: 300Hz
量測天線: AL-130

視訊頻寬: 300Hz
檢測器: Quasi-Peak

150kHz~30MHz 測試

解析頻寬: 10kHz
量測天線: AL-130

視訊頻寬: 10kHz
檢測器: Quasi-Peak

1GHz 以下測試

解析頻寬: 100kHz
量測天線: JB3

視訊頻寬: 100kHz
檢測器: Quasi-Peak

1GHz 以上測試

量測天線: MCTD-1209

檢測器: Peak, Average

頻譜分析儀設定 Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz

註: 輻射量測僅放最差模式 (30MHz 以上)。

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6.3 場強度之計算

場強之計算公式如

$$\text{結果值} = \text{讀值} + \text{校正因子}$$

其中校正因子為：

天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）
量測結果請見下頁。

註:比較H Plane、E1 Plane和E2 Plane測試值後，附上最差模式 E2 Plane 數據。

Note: Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

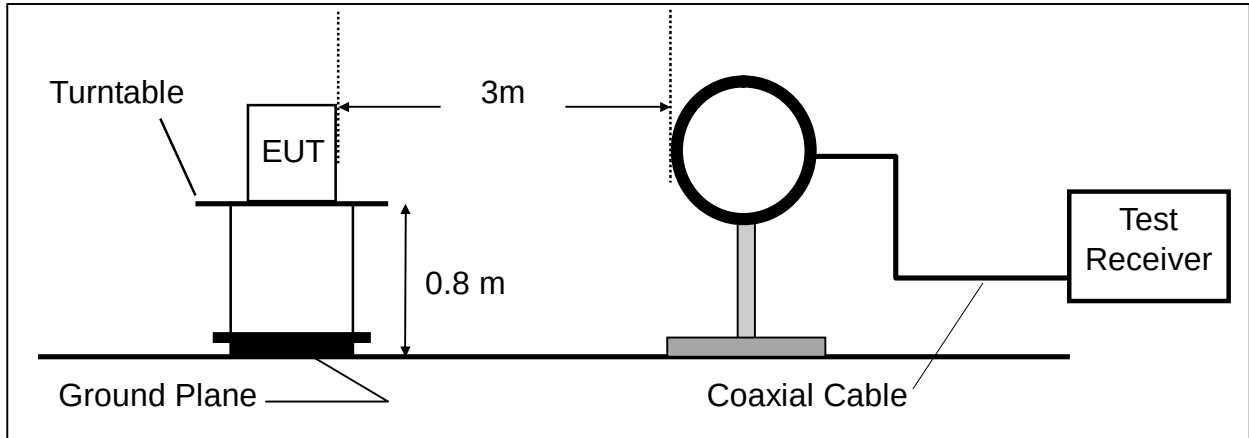
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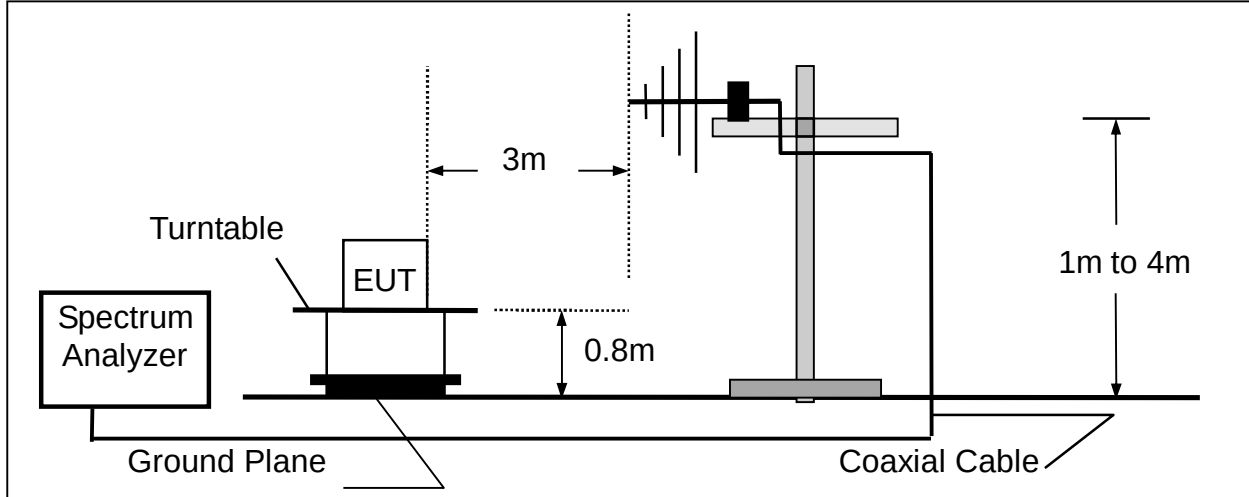
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6.4 輻射之測試配置

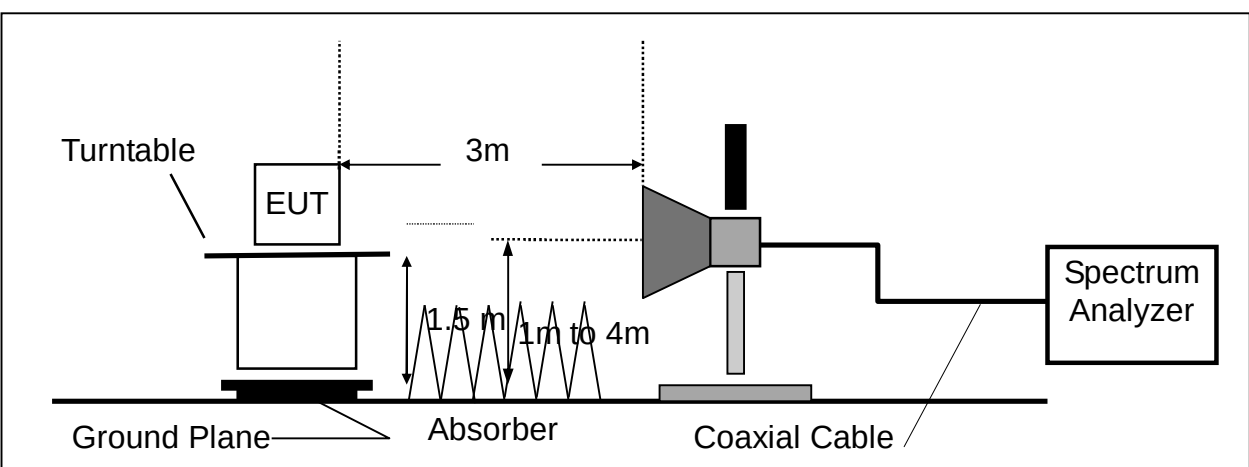
(A) 量測頻率低於 30MHz 以下之測試配置



(B) 量測頻率 30MHz 至 1000MHz 之測試配置



(C) 量測頻率 1000MHz 以上之測試配置



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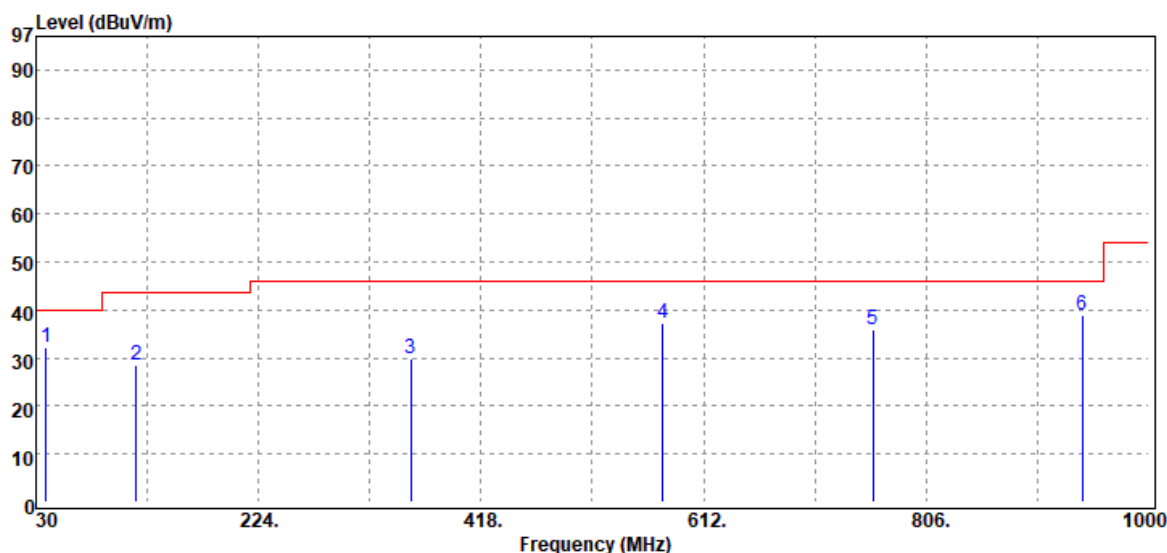
6.5 場強輻射之量測結果

6.5.1 發射機場強輻射之量測結果(1GHz 以下)

Dipole Antenna (Model No.: WTS2450)
BLE 1M

Project Number : T190430W01
Operation Band : BLE 1M
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
38.73	Peak	40.76	-8.55	32.21	40.00	-7.79
117.30	Peak	37.63	-9.02	28.61	43.50	-14.89
356.89	Peak	36.66	-6.73	29.93	46.00	-16.07
576.11	Peak	39.16	-1.82	37.34	46.00	-8.66
759.44	Peak	33.92	2.09	36.01	46.00	-9.99
941.80	Peak	35.02	3.83	38.85	46.00	-7.15

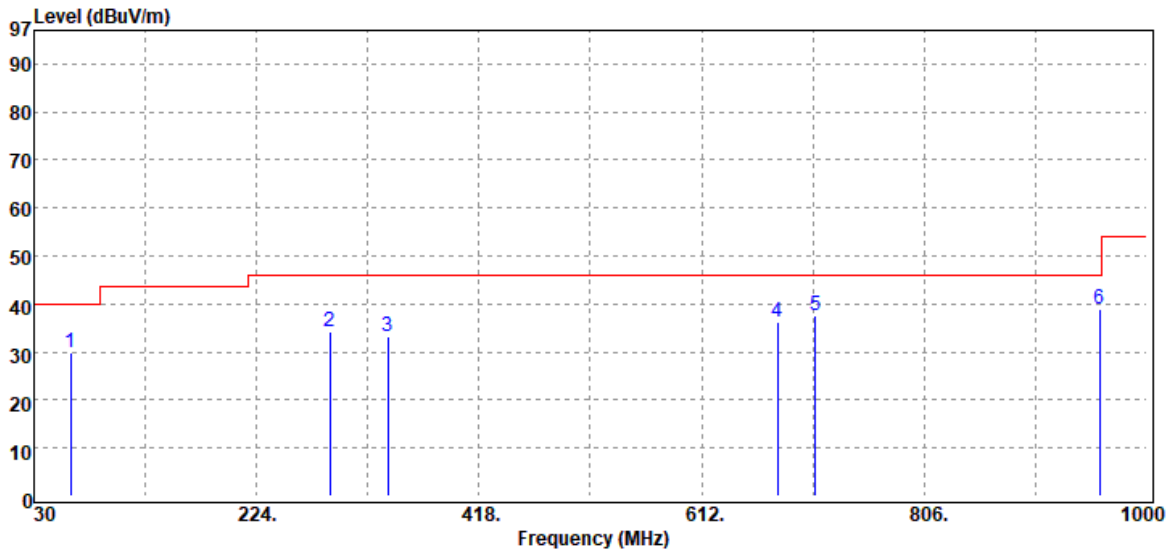
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Project Number : T190430W01
Operation Band : BLE 1M
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
62.01	Peak	45.32	-15.60	29.72	40.00	-10.28
288.02	Peak	42.51	-8.39	34.12	46.00	-11.88
338.46	Peak	40.47	-7.10	33.37	46.00	-12.63
677.96	Peak	36.31	-0.05	36.26	46.00	-9.74
710.94	Peak	37.44	0.15	37.59	46.00	-8.41
959.26	Peak	34.50	4.48	38.98	46.00	-7.02

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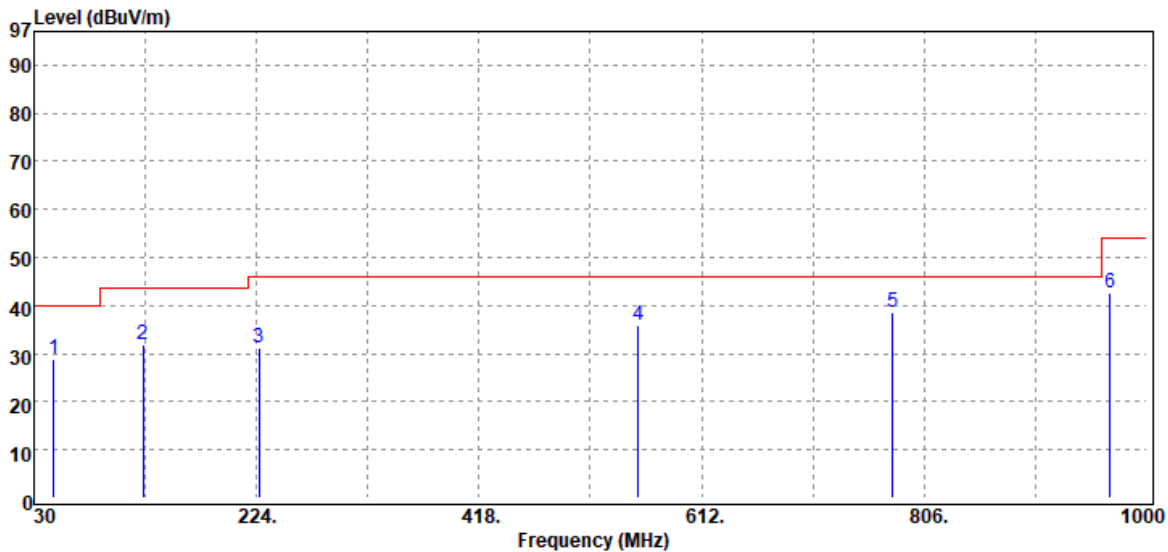
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BLE 2M

Project Number : T190430W01
Operation Band : BLE 2M
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.46	Peak	43.07	-14.26	28.81	40.00	-11.19
125.06	Peak	40.73	-8.80	31.93	43.50	-11.57
225.94	Peak	42.43	-11.07	31.36	46.00	-14.64
556.71	Peak	38.11	-2.34	35.77	46.00	-10.23
778.84	Peak	37.57	1.12	38.69	46.00	-7.31
967.99	Peak	37.33	5.21	42.54	54.00	-11.46

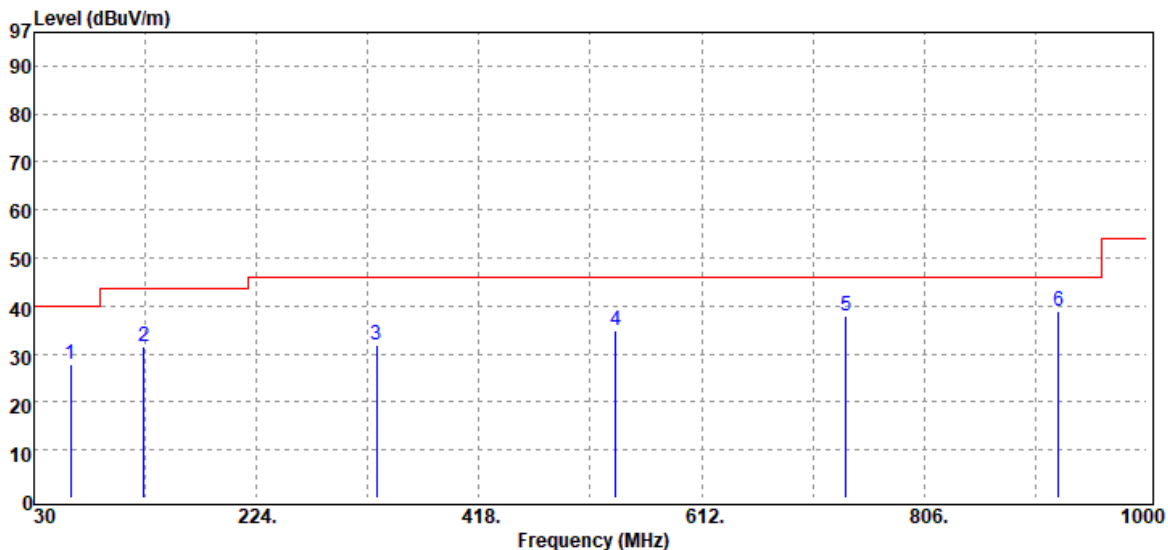
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Project Number : T190430W01
Operation Band : BLE 2M
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
62.01	Peak	43.47	-15.60	27.87	40.00	-12.13
126.03	Peak	40.29	-8.83	31.46	43.50	-12.04
328.76	Peak	39.22	-7.18	32.04	46.00	-13.96
537.31	Peak	36.97	-2.16	34.81	46.00	-11.19
738.10	Peak	36.33	1.65	37.98	46.00	-8.02
923.37	Peak	35.16	3.88	39.04	46.00	-6.96

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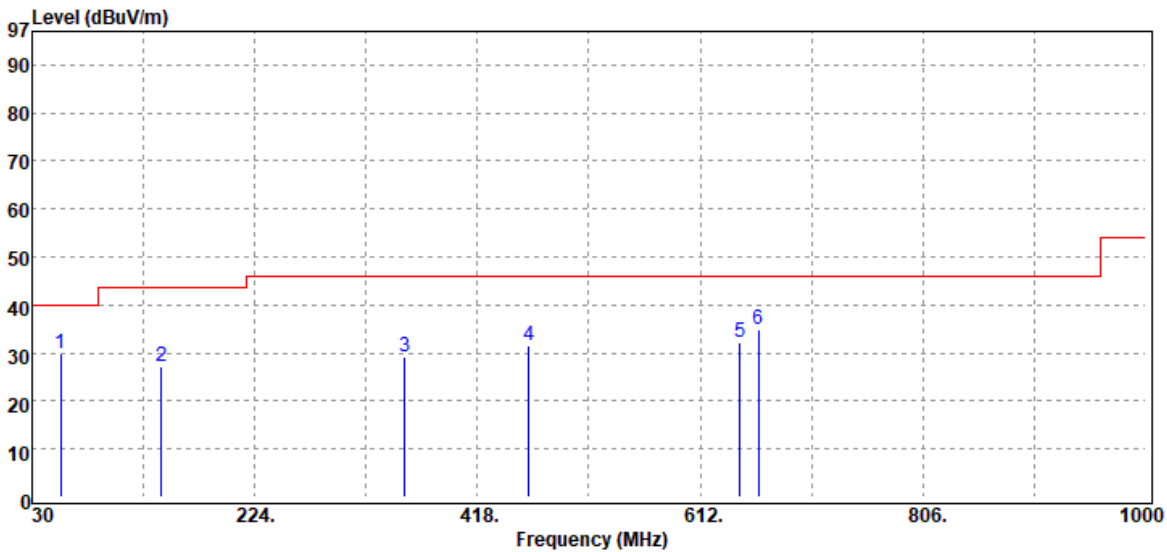
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Fully System

Project Number :T190430W01
Operation Band :Fully System
Frequency :Fully System
Operation Mode :Fully System
EUT Pol. :E2 Plan

Test Date :2019-06-04
Temp./Humi. :20/56
Antenna Pol. :VERTICAL
Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
55.22	Peak	45.99	-16.00	29.99	40.00	-10.01
142.52	Peak	36.97	-9.89	27.08	43.50	-16.42
354.95	Peak	35.93	-6.80	29.13	46.00	-16.87
462.62	Peak	35.21	-3.59	31.62	46.00	-14.38
646.92	Peak	32.52	-0.19	32.33	46.00	-13.67
662.44	Peak	34.74	0.01	34.75	46.00	-11.25

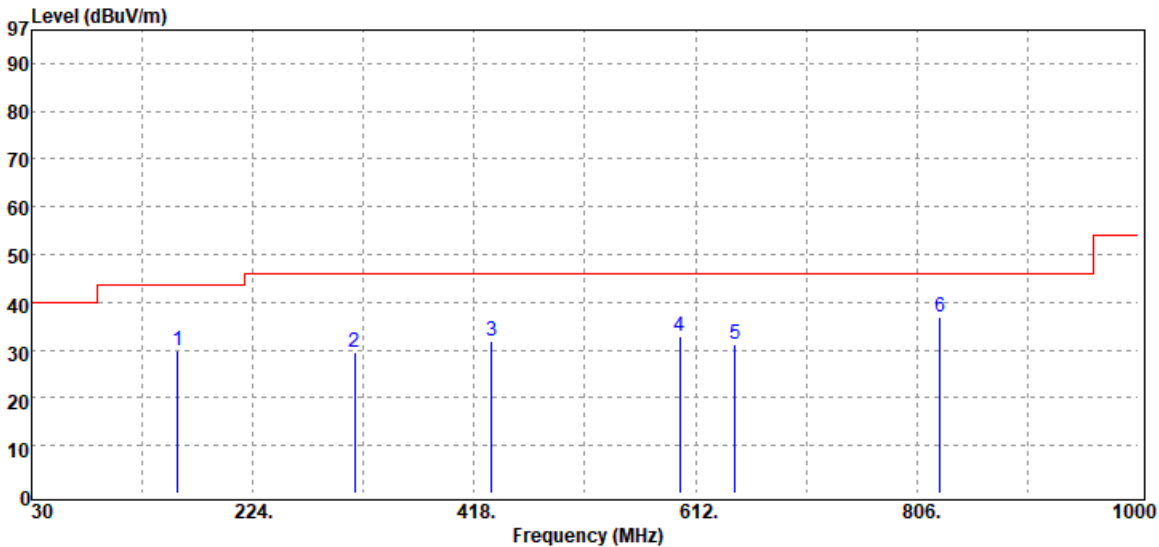
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Project Number :T190430W01
Operation Band :Fully System
Frequency :Fully System
Operation Mode :Fully System
EUT Pol. :E2 Plan

Test Date :2019-06-04
Temp./Humi. :20/56
Antenna Pol. :HORIZONTAL
Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
158.04	Peak	39.70	-9.92	29.78	43.50	-13.72
313.24	Peak	37.41	-7.82	29.59	46.00	-16.41
433.52	Peak	36.01	-4.25	31.76	46.00	-14.24
598.42	Peak	34.70	-1.65	33.05	46.00	-12.95
646.92	Peak	31.25	-0.19	31.06	46.00	-14.94
826.37	Peak	33.51	3.26	36.77	46.00	-9.23

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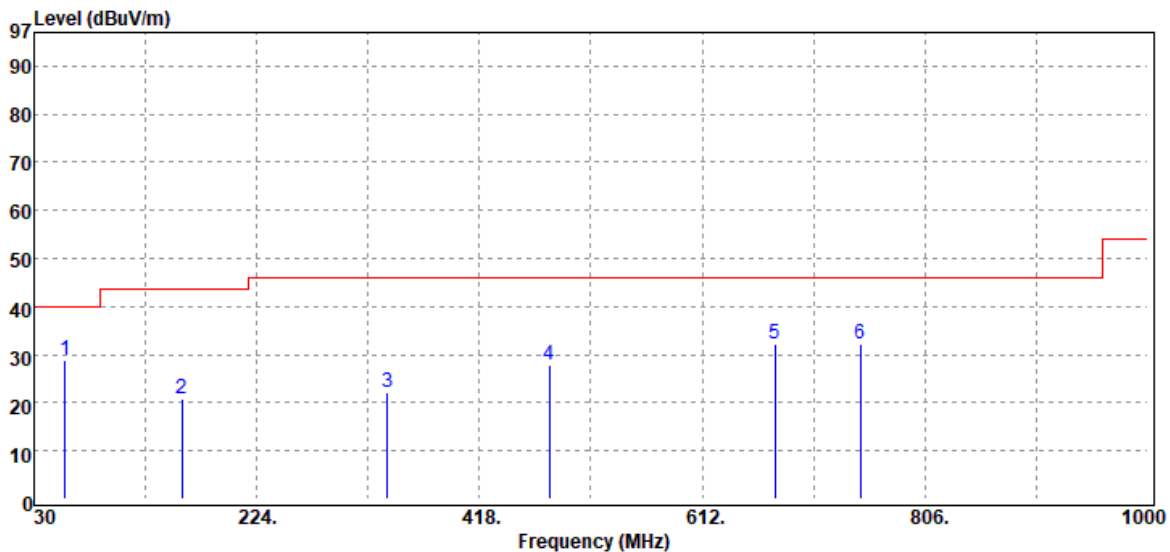
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PCB Antenna BLE 1M

Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
57.16	Peak	44.76	-15.91	28.85	40.00	-11.15
159.01	Peak	30.70	-9.95	20.75	43.50	-22.75
337.49	Peak	29.24	-7.10	22.14	46.00	-23.86
479.11	Peak	30.85	-2.98	27.87	46.00	-18.13
675.05	Peak	32.38	-0.23	32.15	46.00	-13.85
749.74	Peak	30.03	2.12	32.15	46.00	-13.85

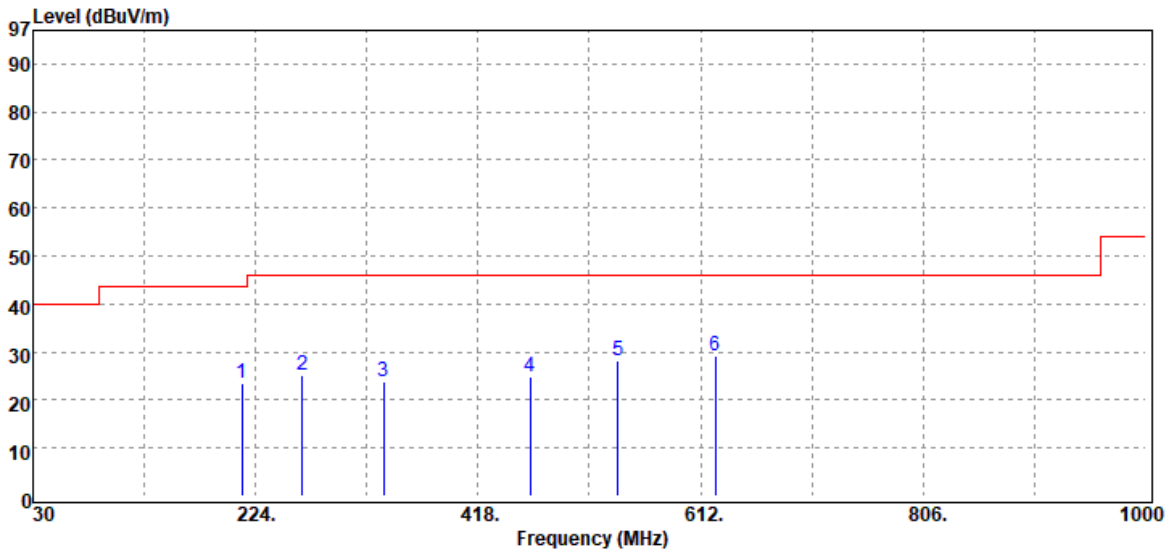
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Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
212.36	Peak	35.05	-11.54	23.51	43.50	-19.99
264.74	Peak	34.19	-8.95	25.24	46.00	-20.76
335.55	Peak	31.09	-7.18	23.91	46.00	-22.09
463.59	Peak	28.34	-3.53	24.81	46.00	-21.19
540.22	Peak	30.46	-2.33	28.13	46.00	-17.87
624.61	Peak	29.69	-0.55	29.14	46.00	-16.86

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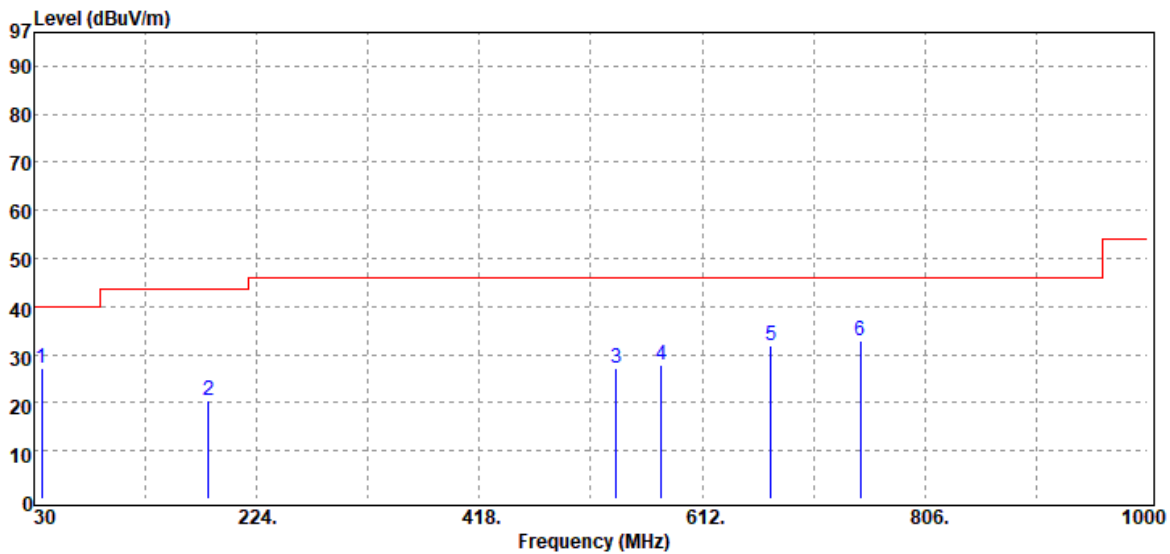
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BLE 2M

Project Number : T190430W01
Operation Band : BLE(2M)
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	34.43	-7.08	27.35	40.00	-12.65
182.29	Peak	31.63	-11.28	20.35	43.50	-23.15
537.31	Peak	29.23	-2.16	27.07	46.00	-18.93
576.11	Peak	29.60	-1.82	27.78	46.00	-18.22
672.14	Peak	31.91	0.02	31.93	46.00	-14.07
749.74	Peak	30.78	2.12	32.90	46.00	-13.10

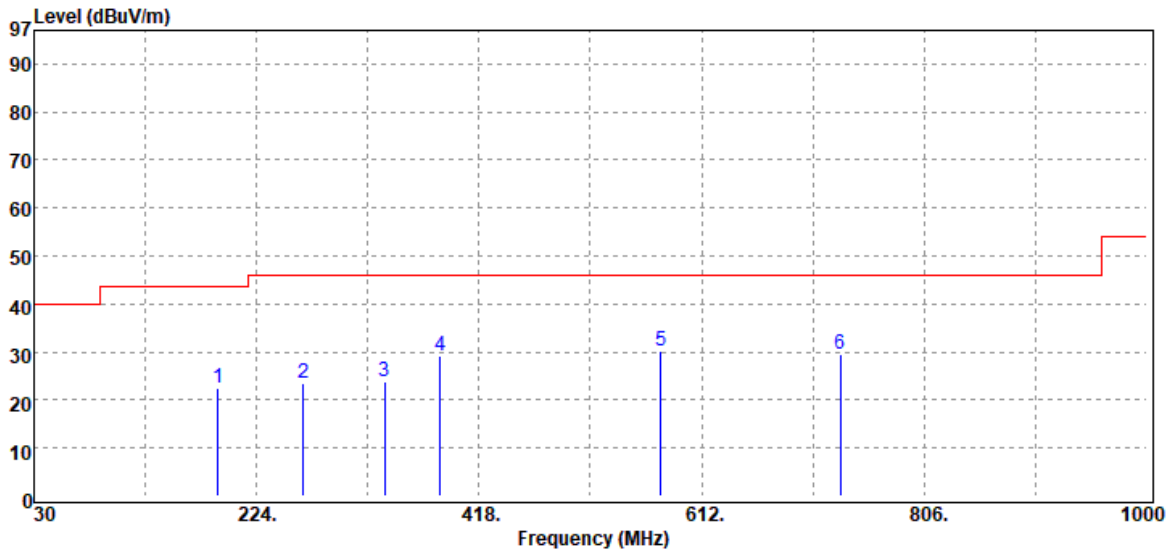
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Project Number : T190430W01
Operation Band : BLE(2M)
Fundamental Frequency : 2442 MHz
Operation Mode : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
190.05	Peak	33.32	-10.77	22.55	43.50	-20.95
264.74	Peak	32.57	-8.95	23.62	46.00	-22.38
335.55	Peak	30.87	-7.18	23.69	46.00	-22.31
384.05	Peak	35.45	-6.24	29.21	46.00	-16.79
576.11	Peak	32.10	-1.82	30.28	46.00	-15.72
733.25	Peak	28.30	1.17	29.47	46.00	-16.53

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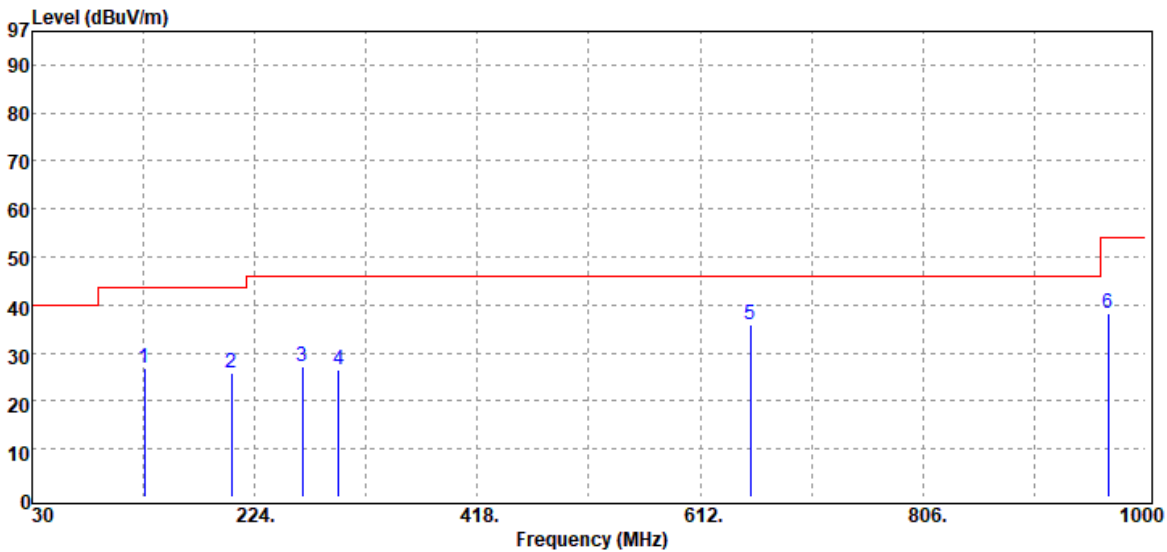
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Fully System

Project Number :T190430W01
Operation Band :Fully System
Frequency :Fully System
Operation Mode : Fully System
EUT Pol. :E2 Plan

Test Date :2019-06-04
Temp./Humi. :21/55
Antenna Pol. :VERTICAL
Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
127.97	Peak	35.82	-8.98	26.84	43.50	-16.66
203.63	Peak	36.69	-10.80	25.89	43.50	-17.61
265.71	Peak	36.14	-8.88	27.26	46.00	-18.74
296.75	Peak	34.77	-8.29	26.48	46.00	-19.52
655.65	Peak	35.99	0.00	35.99	46.00	-10.01
967.02	Peak	33.22	5.15	38.37	54.00	-15.63

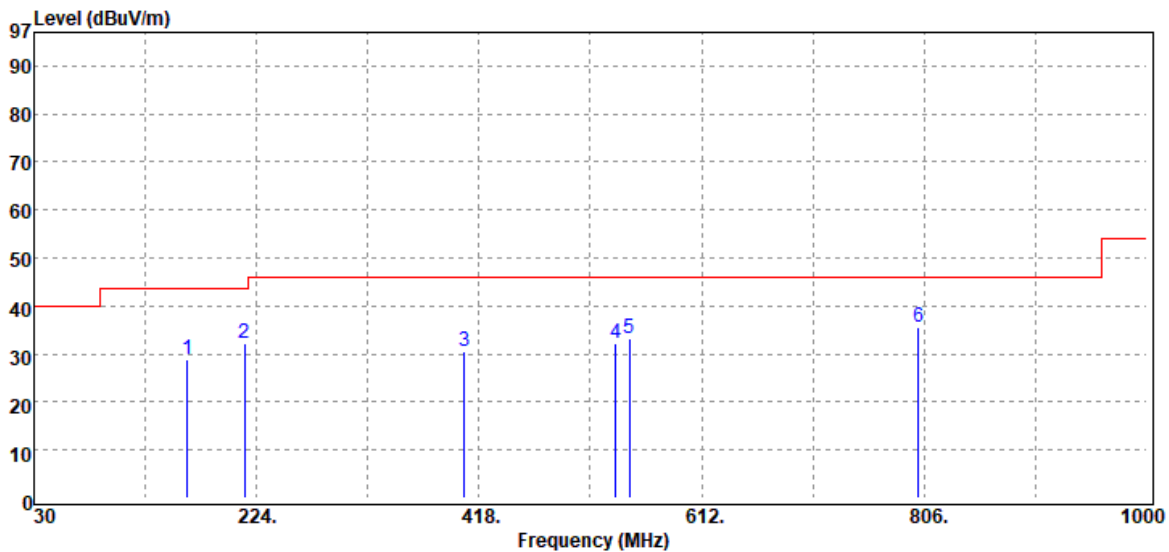
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Project Number :T190430W01
 Operation Band :Fully System
 Frequency :Fully System
 Operation Mode :Fully System
 EUT Pol. :E2 Plan

Test Date :2019-06-04
 Temp./Humi. :21/55
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
163.86	Peak	39.25	-10.24	29.01	43.50	-14.49
213.33	Peak	43.62	-11.51	32.11	43.50	-11.39
405.39	Peak	35.76	-5.34	30.42	46.00	-15.58
537.31	Peak	34.24	-2.16	32.08	46.00	-13.92
548.95	Peak	35.59	-2.33	33.26	46.00	-12.74
801.15	Peak	33.89	1.72	35.61	46.00	-10.39

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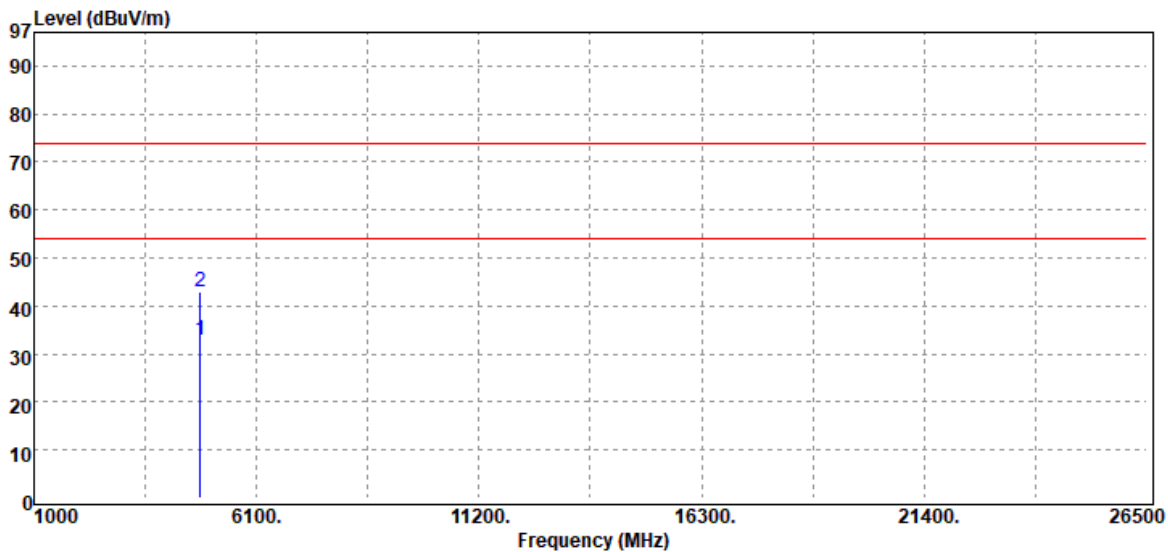
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6.5.2 發射機場強輻射之量測結果(1GHz 以上)

Dipole Antenna (Model No.: WTS2450)
BLE 1M

Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2402 MHz
 Operation Mode : Tx CH Low
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	29.90	3.05	32.95	54.00	-21.05
4804.00	Peak	39.75	3.05	42.80	74.00	-31.20

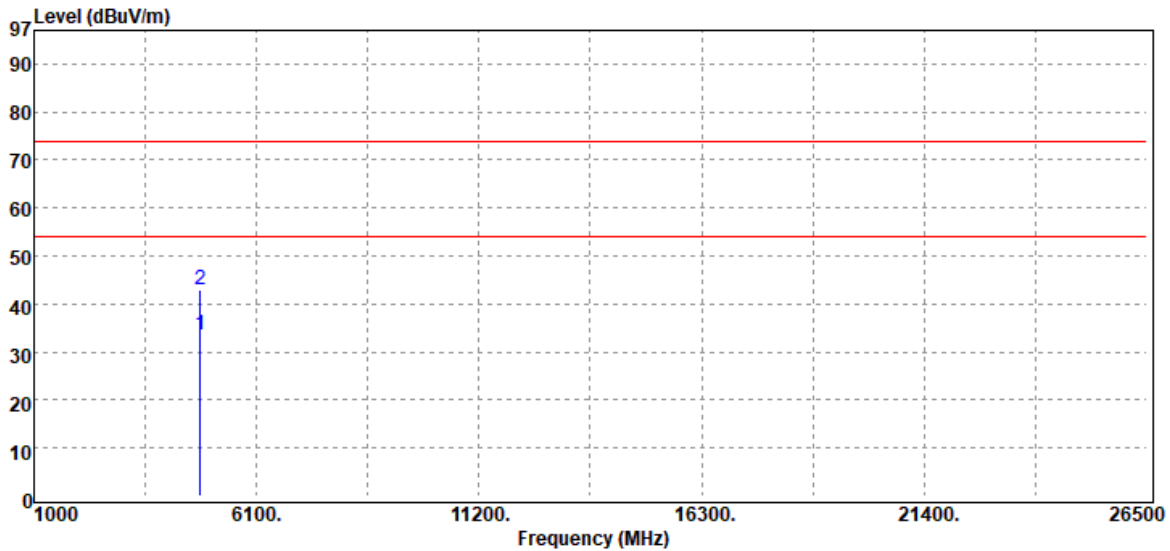
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2402 MHz
 Operation Mode : Tx CH Low
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
4804.00	Average	30.48	3.05	33.53	54.00	-20.47
4804.00	Peak	39.76	3.05	42.81	74.00	-31.19

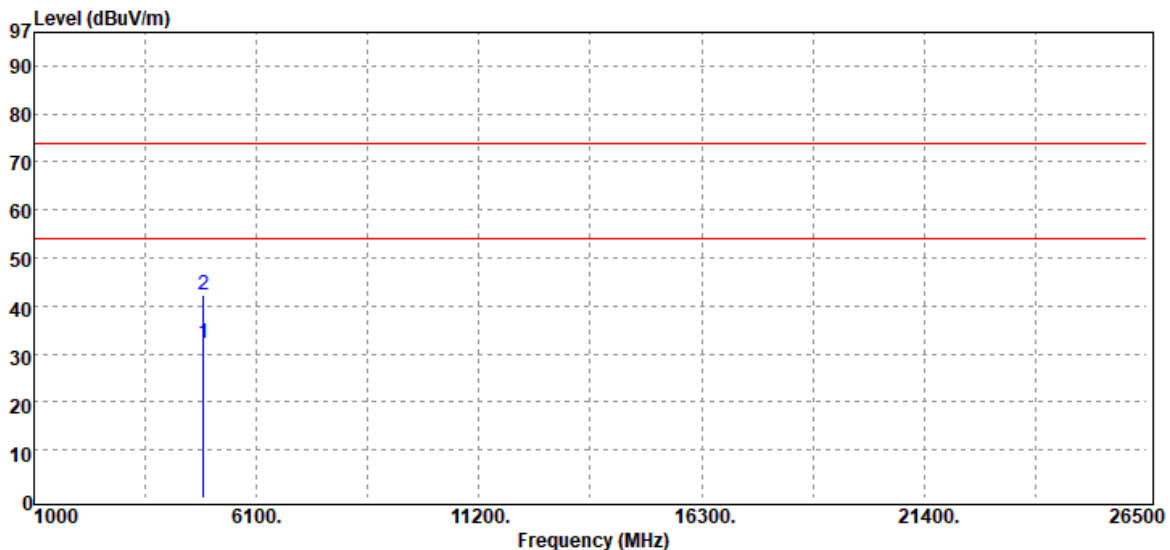
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
4884.00	Average	28.79	3.41	32.20	54.00	-21.80
4884.00	Peak	38.85	3.41	42.26	74.00	-31.74

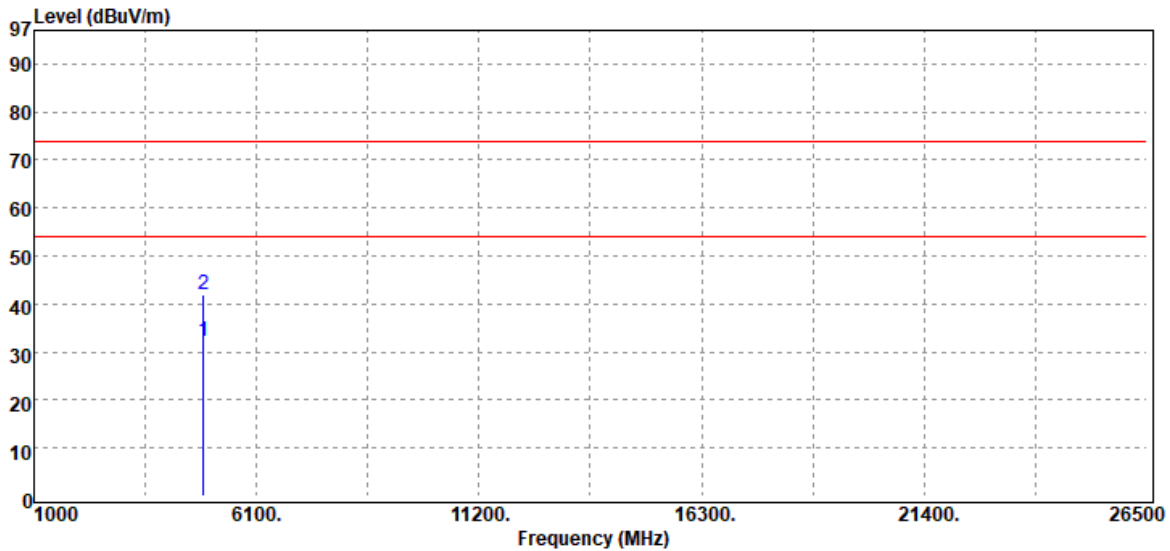
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4884.00	Average	28.97	3.41	32.38	54.00	-21.62
4884.00	Peak	38.48	3.41	41.89	74.00	-32.11

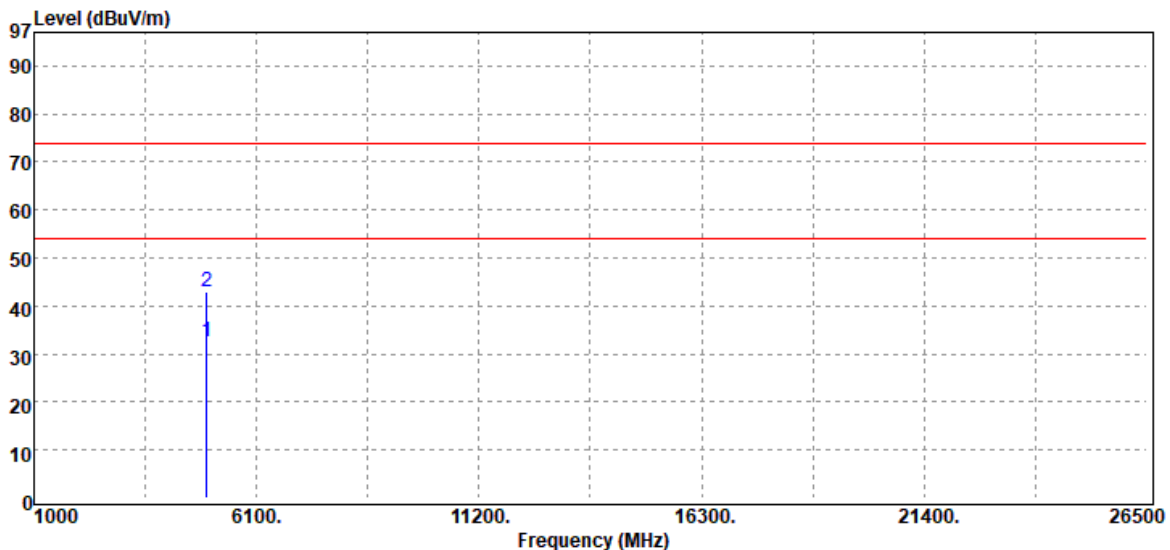
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2480 MHz
 Operation Mode : Tx CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Average	28.45	4.06	32.51	54.00	-21.49
4960.00	Peak	38.79	4.06	42.85	74.00	-31.15

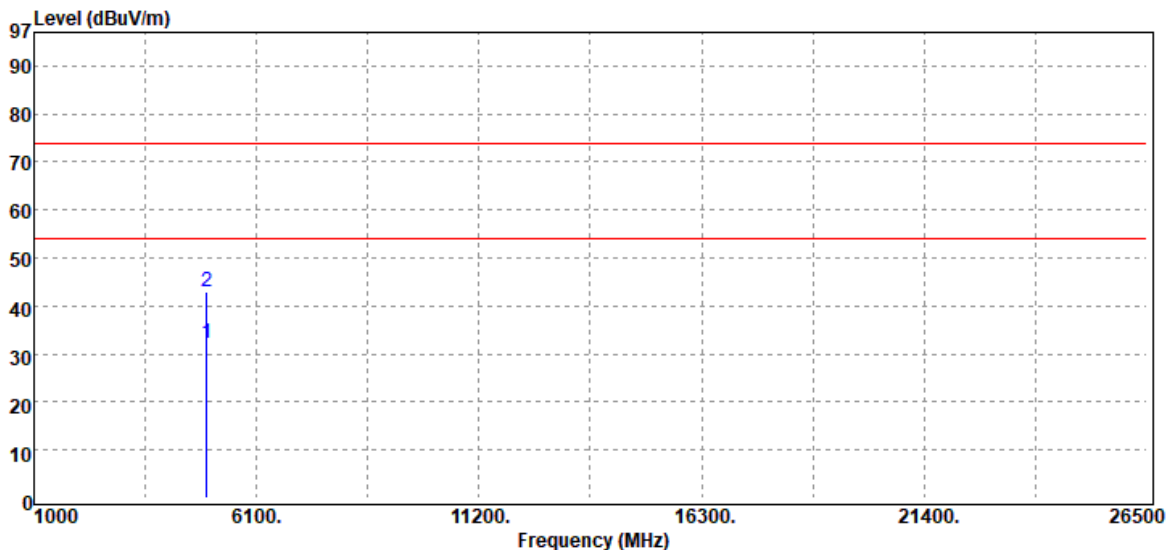
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2480 MHz
 Operation Mode : Tx CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	28.19	4.06	32.25	54.00	-21.75
4960.00	Peak	38.88	4.06	42.94	74.00	-31.06

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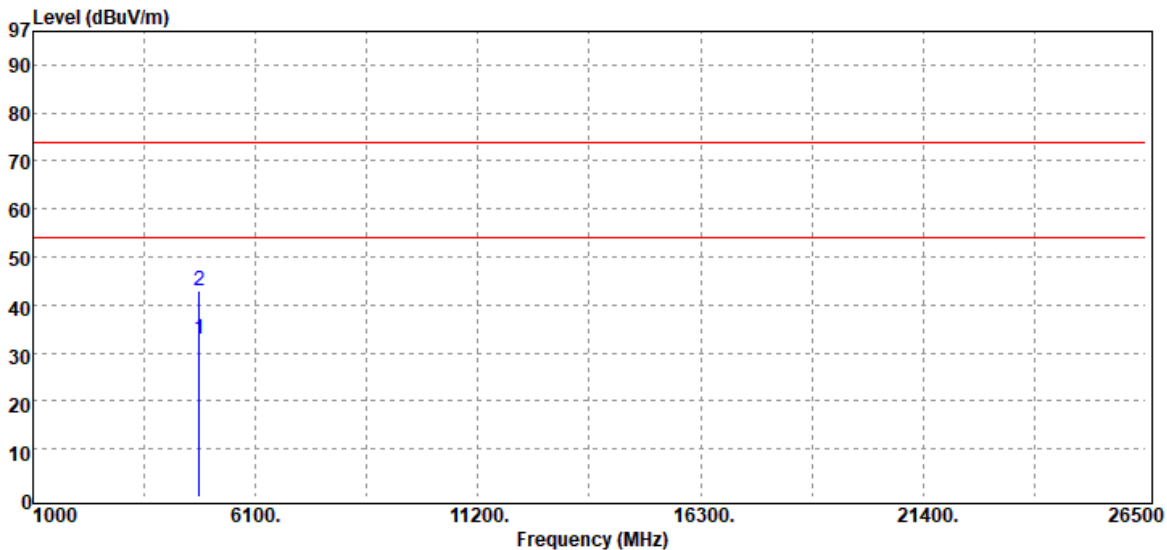
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BLE 2M

Project Number : T190430W01
Operation Band : BLE 2M
Fundamental Frequency : 2402 MHz
Operation Mode : Tx CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Average	29.75	3.05	32.80	54.00	-21.20
4804.00	Peak	39.98	3.05	43.03	74.00	-30.97

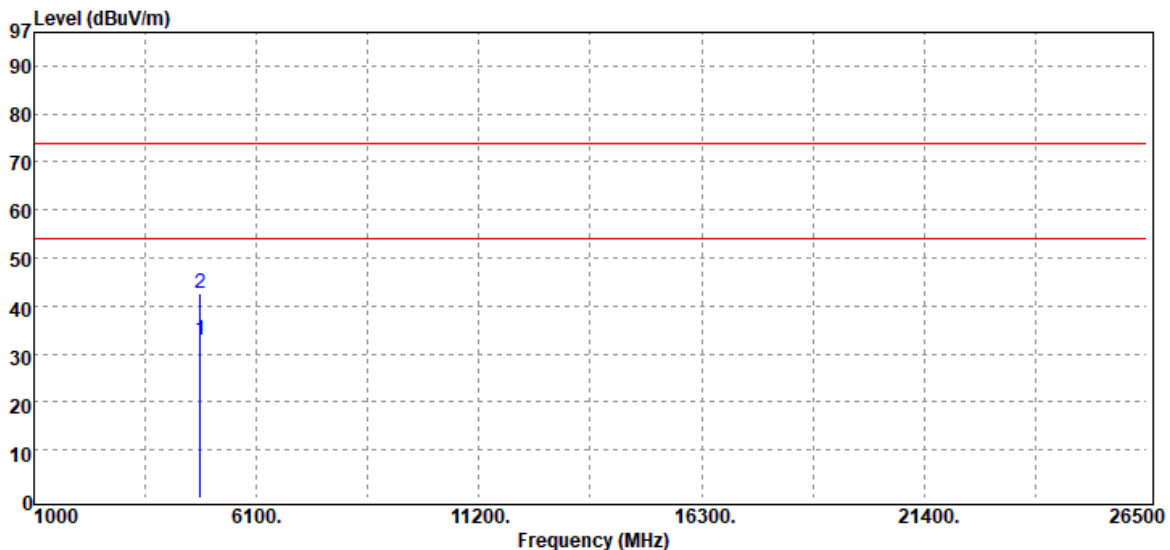
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2402 MHz
 Operation Mode : Tx CH Low
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
4804.00	Average	29.90	3.05	32.95	54.00	-21.05
4804.00	Peak	39.59	3.05	42.64	74.00	-31.36

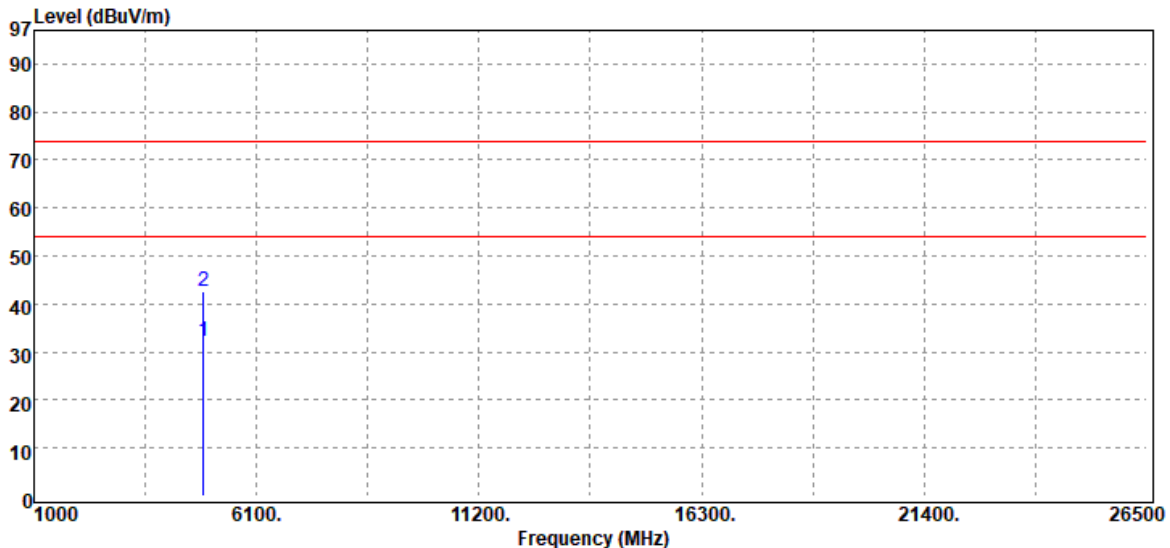
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Average	28.97	3.41	32.38	54.00	-21.62
4884.00	Peak	39.25	3.41	42.66	74.00	-31.34

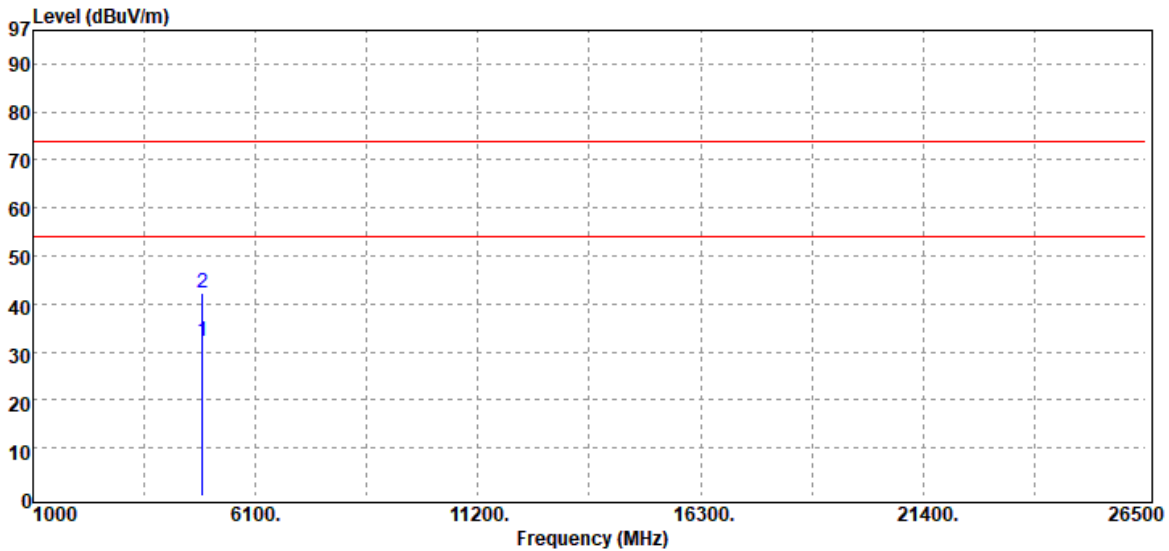
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
4884.00	Average	28.75	3.41	32.16	54.00	-21.84
4884.00	Peak	38.95	3.41	42.36	74.00	-31.64

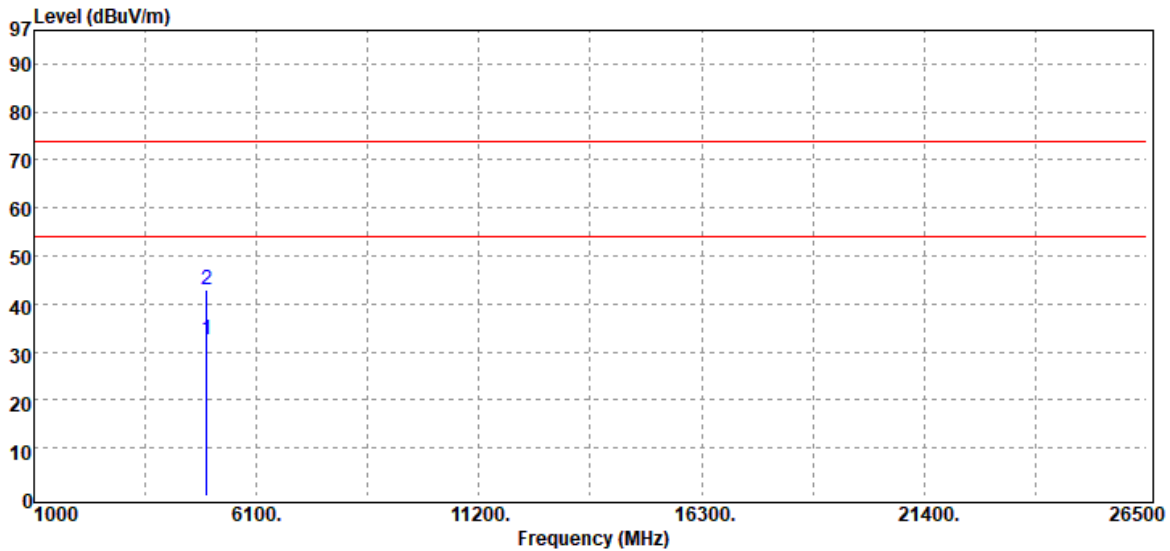
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2480 MHz
 Operation Mode : Tx CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	28.59	4.06	32.65	54.00	-21.35
4960.00	Peak	38.83	4.06	42.89	74.00	-31.11

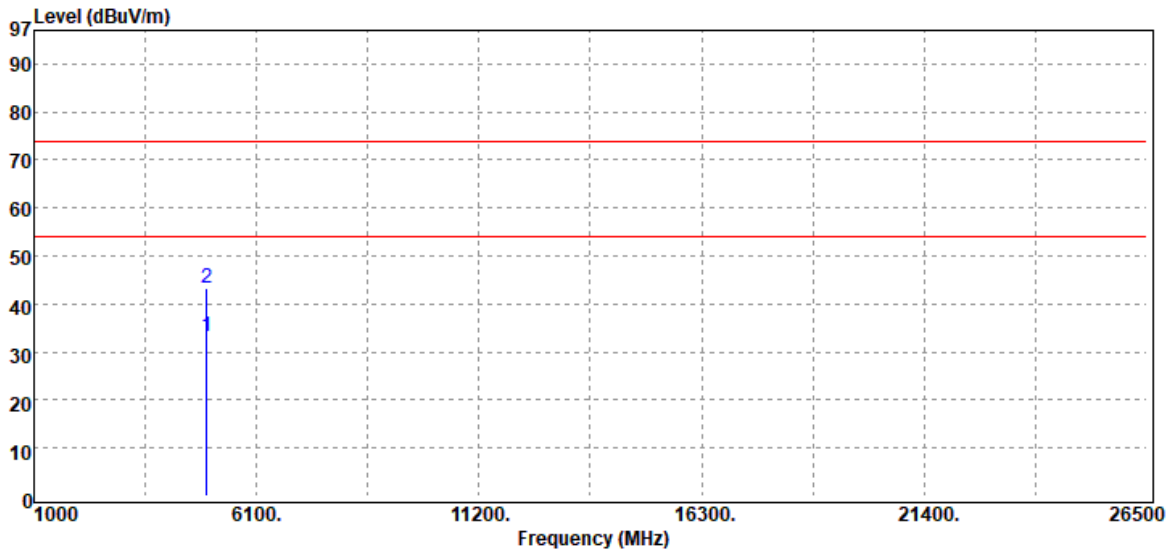
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2480 MHz
 Operation Mode : Tx CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	29.17	4.06	33.23	54.00	-20.77
4960.00	Peak	39.30	4.06	43.36	74.00	-30.64

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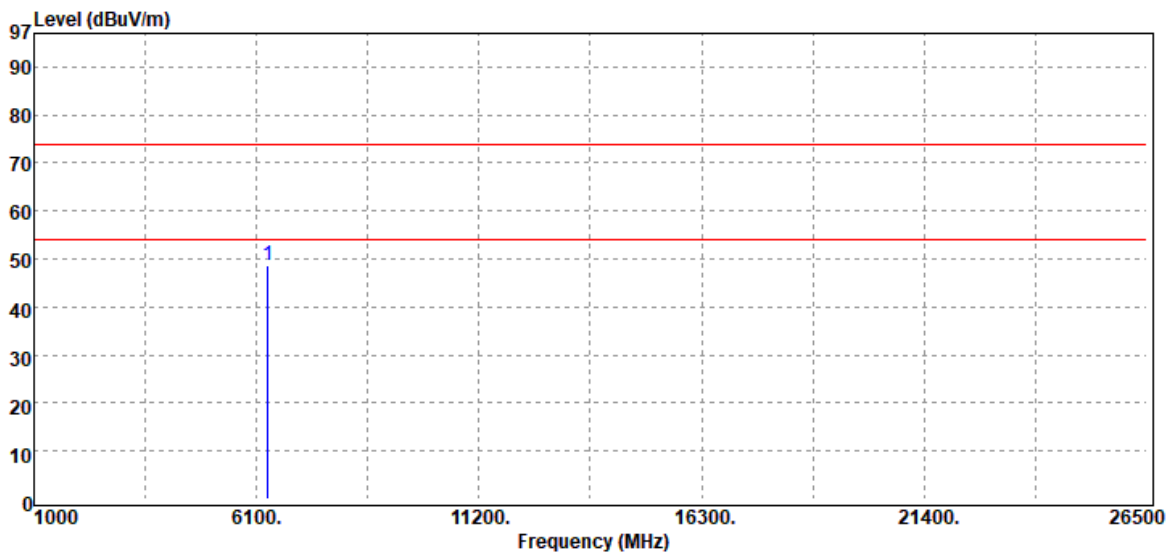
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Fully System

Project Number :T190430W01
Operation Band :Fully System
Frequency :Fully System
Operation Mode :Fully System
EUT Pol. :E2 Plan

Test Date :2019-06-04
Temp./Humi. :20/56
Antenna Pol. :VERTICAL
Engineer :Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
6369.00	Peak	40.55	8.15	48.70	74.00	-25.30

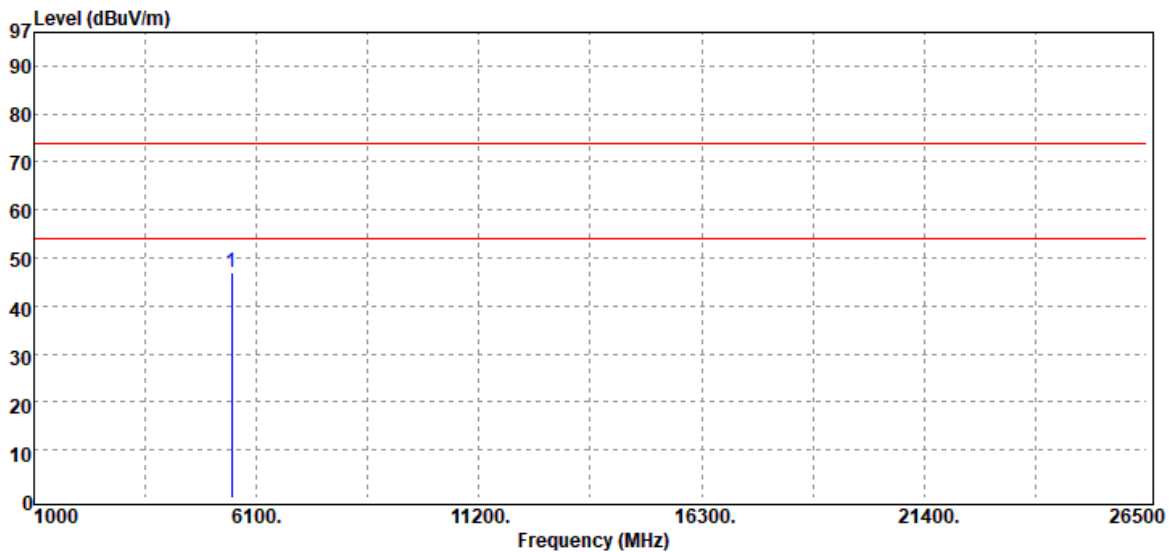
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Project Number :T190430W01
 Operation Band :Fully System
 Frequency :Fully System
 Operation Mode :Fully System
 EUT Pol. :E2 Plan

Test Date :2019-06-04
 Temp./Humi. :20/56
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5536.00	Peak	41.17	5.69	46.86	74.00	-27.14

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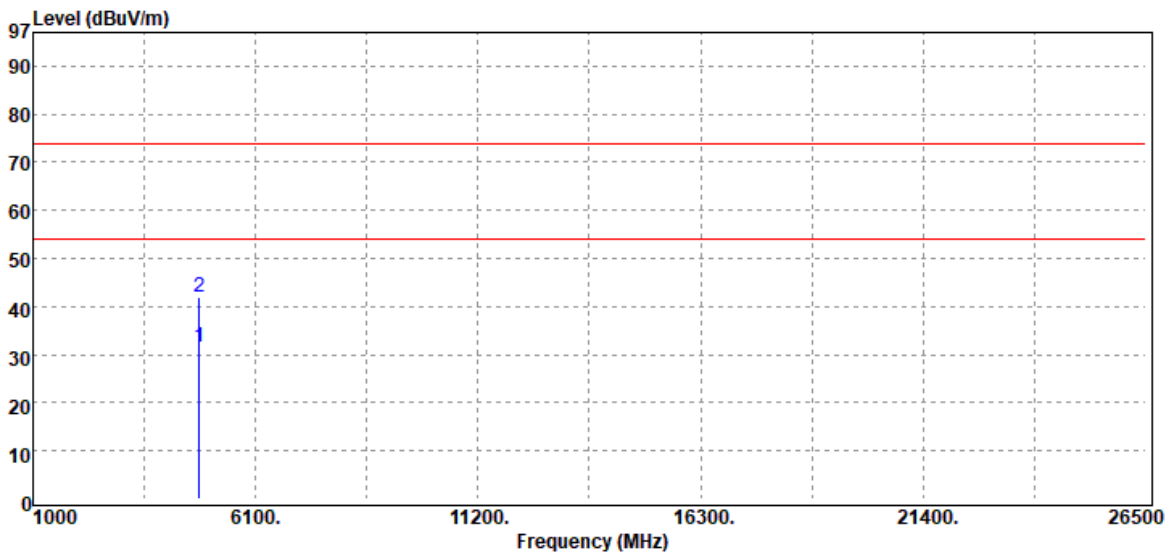
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PCB Antenna: BLE 1M

Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2402 MHz
Operation Mode : Tx CH LOW
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	28.59	3.05	31.64	54.00	-22.36
4804.00	Peak	38.77	3.05	41.82	74.00	-32.18

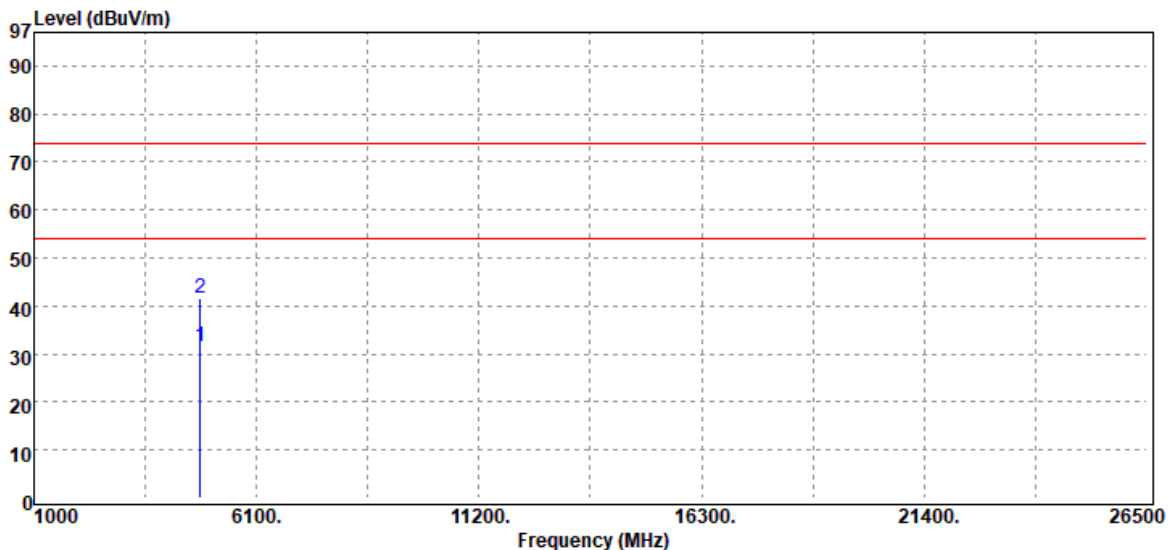
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2402 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.00	Average	28.51	3.05	31.56	54.00	-22.44
4804.00	Peak	38.62	3.05	41.67	74.00	-32.33

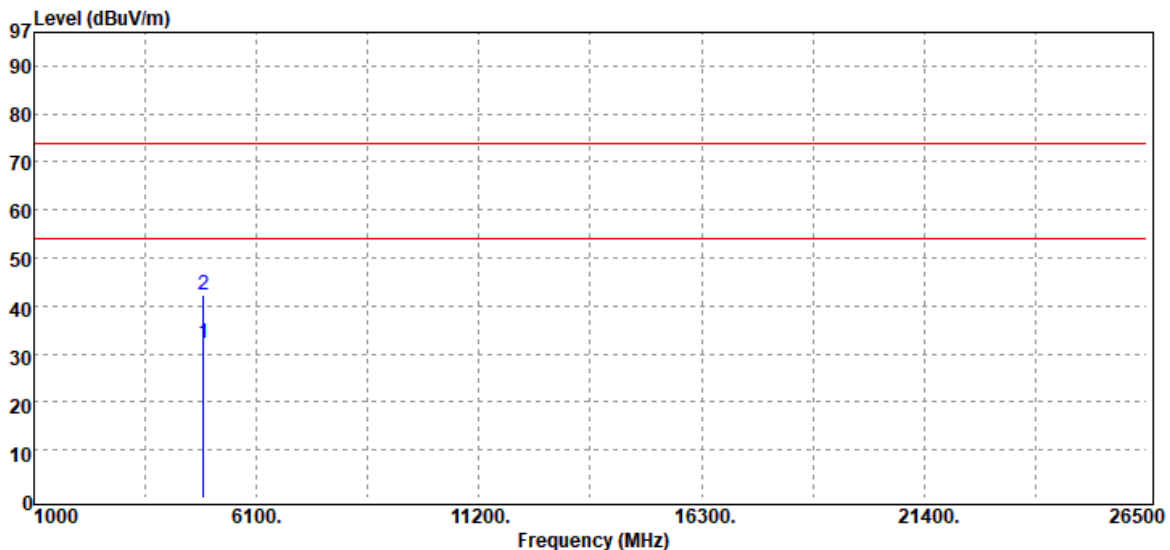
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
4884.00	Average	28.96	3.41	32.37	54.00	-21.63
4884.00	Peak	38.93	3.41	42.34	74.00	-31.66

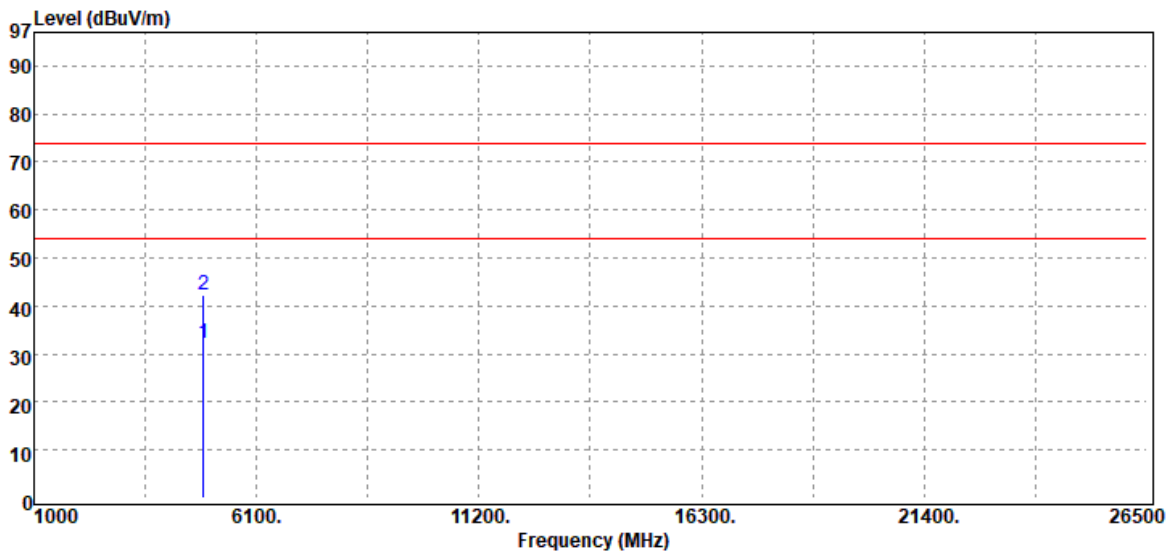
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
4884.00	Average	28.68	3.41	32.09	54.00	-21.91
4884.00	Peak	38.74	3.41	42.15	74.00	-31.85

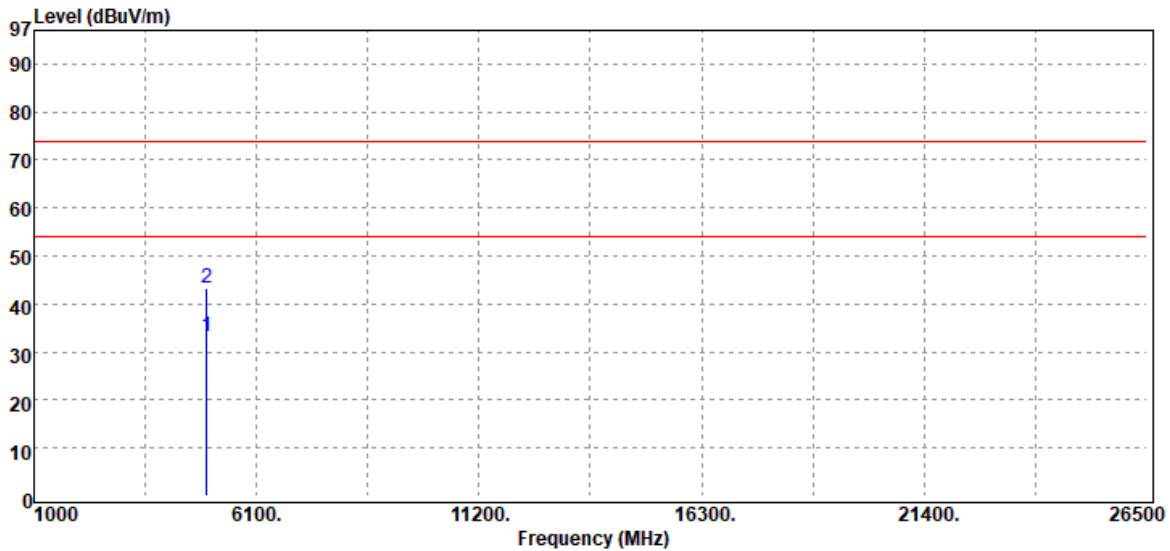
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2480 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Average	29.06	4.06	33.12	54.00	-20.88
4960.00	Peak	39.28	4.06	43.34	74.00	-30.66

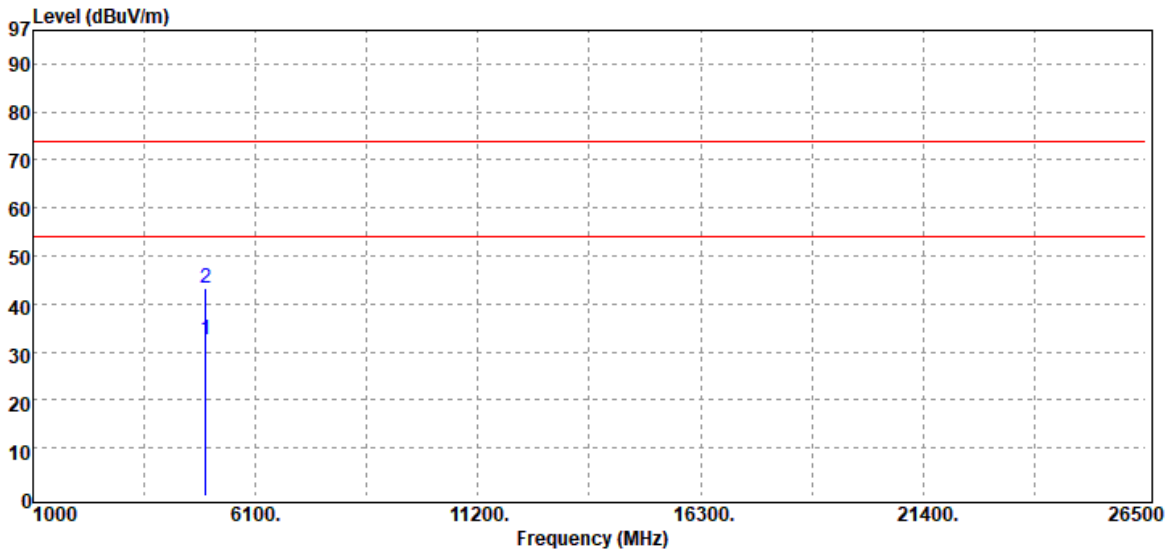
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Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2480 MHz
Operation Mode : Tx CH HIGH
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Average	28.61	4.06	32.67	54.00	-21.33
4960.00	Peak	39.11	4.06	43.17	74.00	-30.83

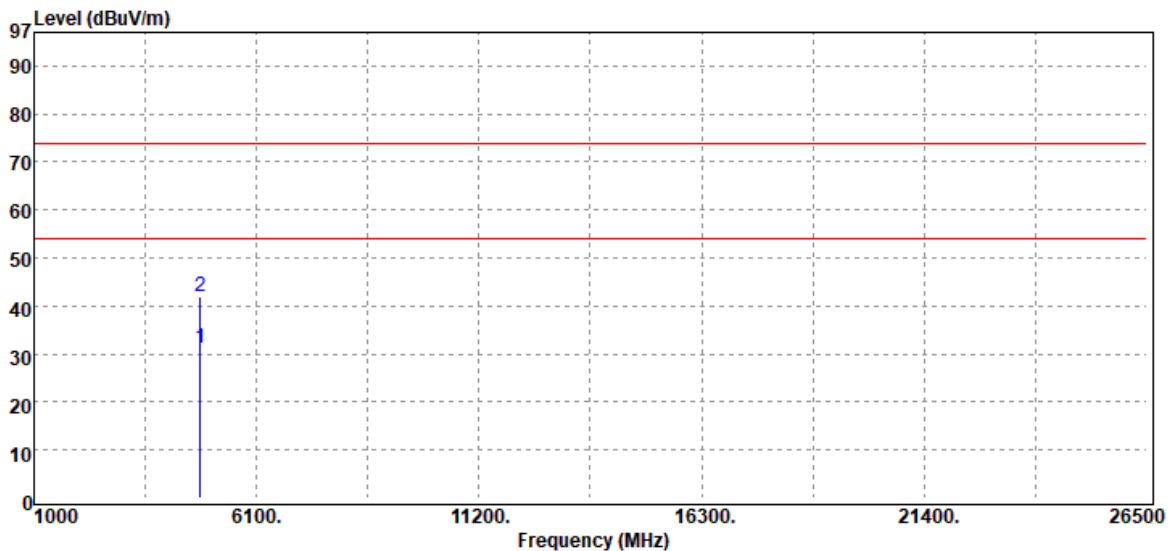
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BLE 2M

Project Number	: T190430W01	Test Date	:2019-05-08
Operation Band	:BLE(2M)	Temp./Humi.	:20 deg_C / 49 RH
Fundamental Frequency	:2402 MHz	Engineer	:Kane
Operation Mode	:Tx CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plane		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Average	28.26	3.05	31.31	54.00	-22.69
4804.00	Peak	38.95	3.05	42.00	74.00	-32.00

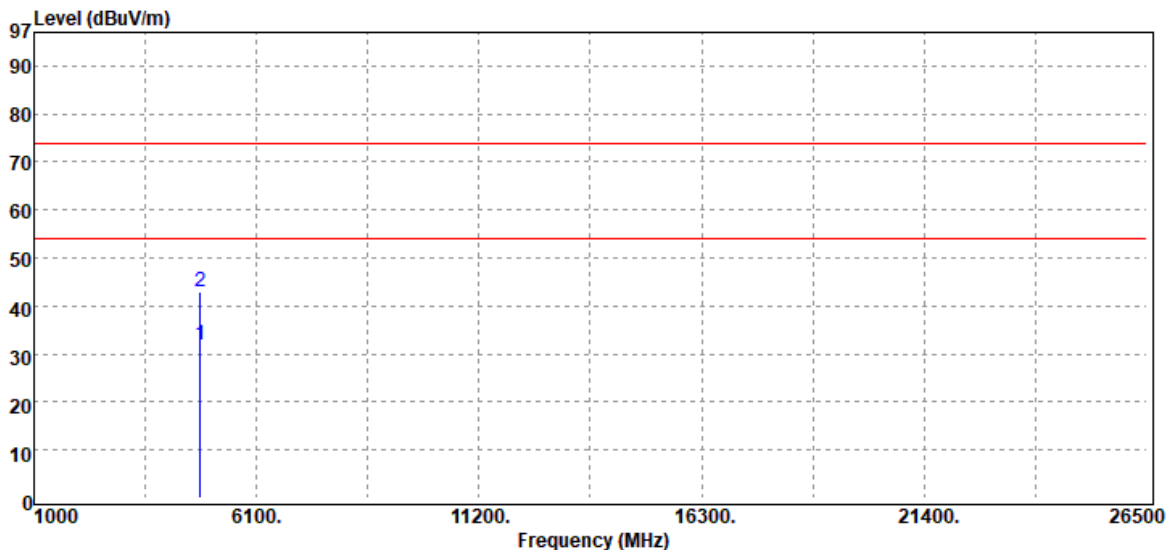
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2402 MHz
 Operation Mode : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4804.00	Average	28.89	3.05	31.94	54.00	-22.06
4804.00	Peak	40.03	3.05	43.08	74.00	-30.92

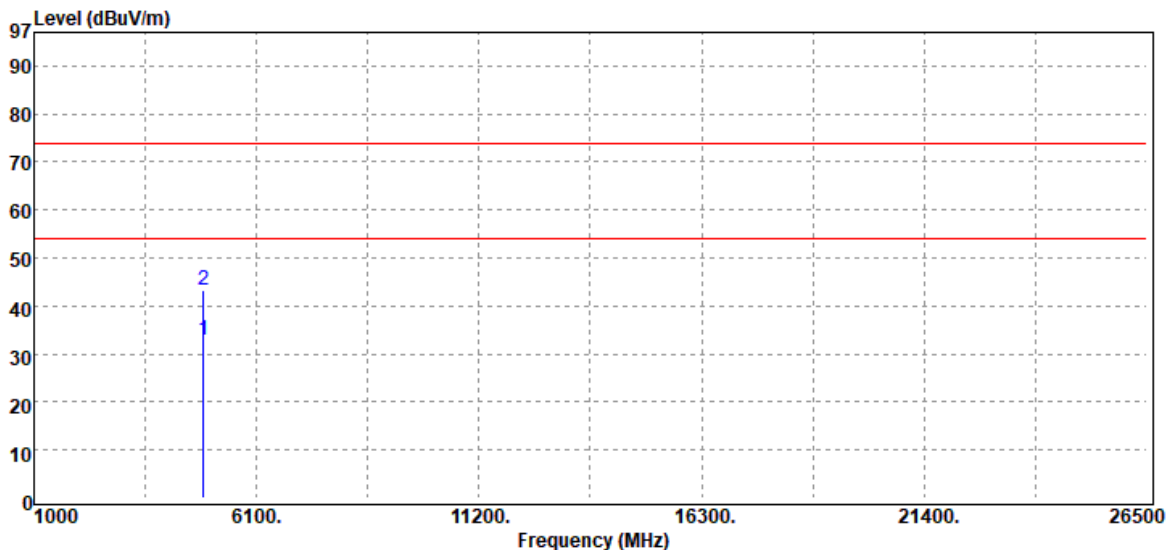
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4884.00	Average	29.33	3.41	32.74	54.00	-21.26
4884.00	Peak	39.87	3.41	43.28	74.00	-30.72

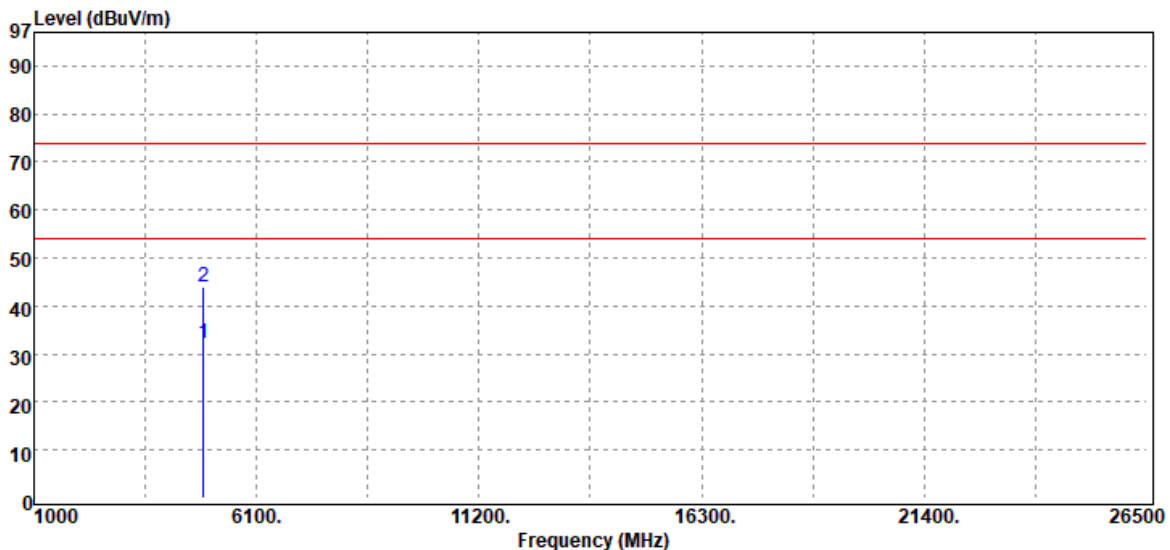
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2442 MHz
 Operation Mode : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4884.00	Average	28.76	3.41	32.17	54.00	-21.83
4884.00	Peak	40.56	3.41	43.97	74.00	-30.03

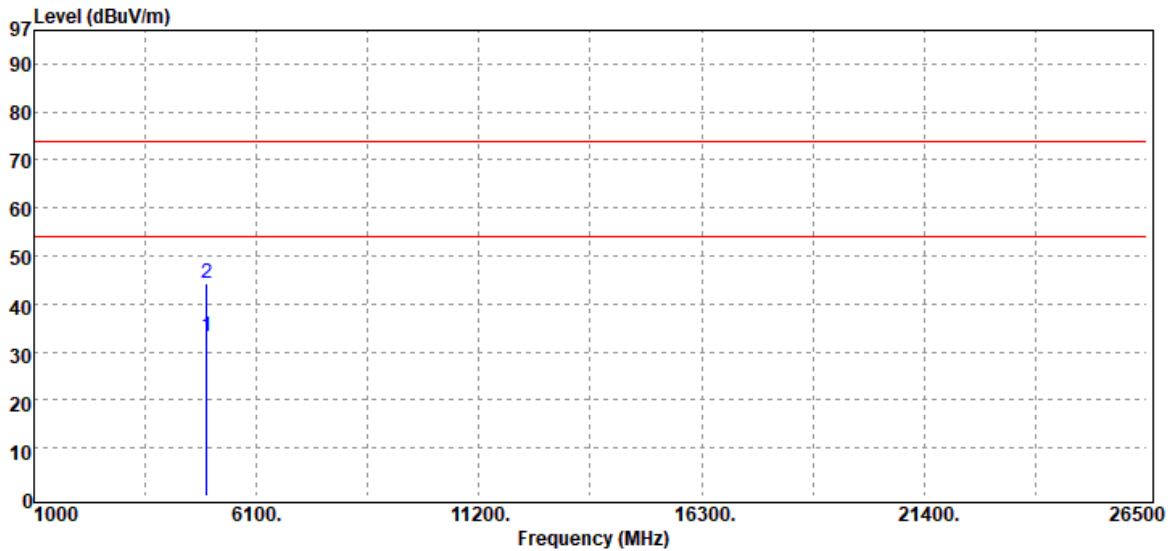
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2480 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4960.00	Average	29.24	4.06	33.30	54.00	-20.70
4960.00	Peak	40.28	4.06	44.34	74.00	-29.66

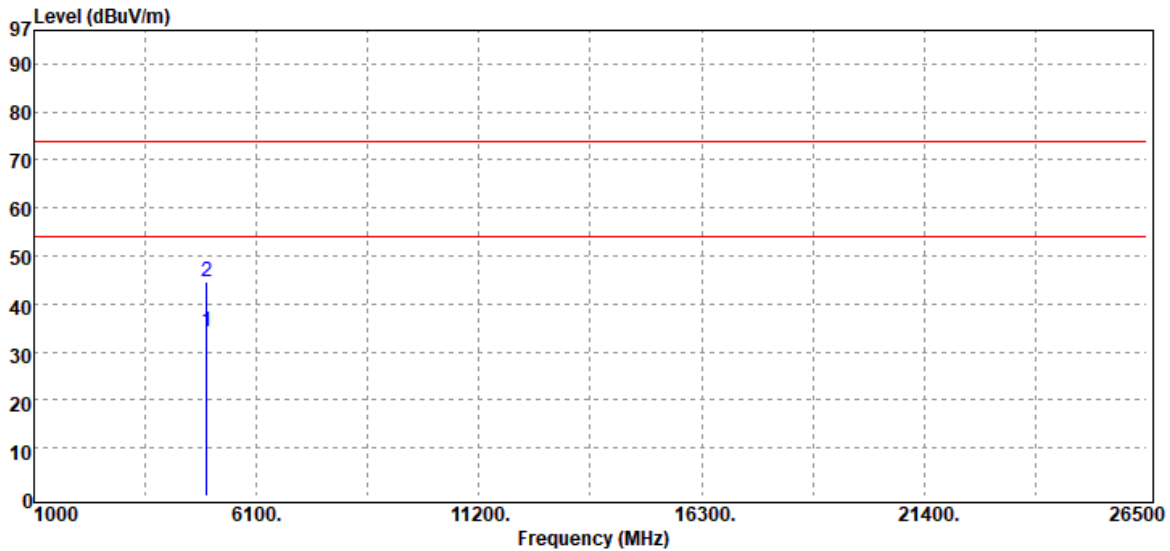
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2480 MHz
 Operation Mode : Tx CH HIGH
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Average	30.08	4.06	34.14	54.00	-19.86
4960.00	Peak	40.51	4.06	44.57	74.00	-29.43

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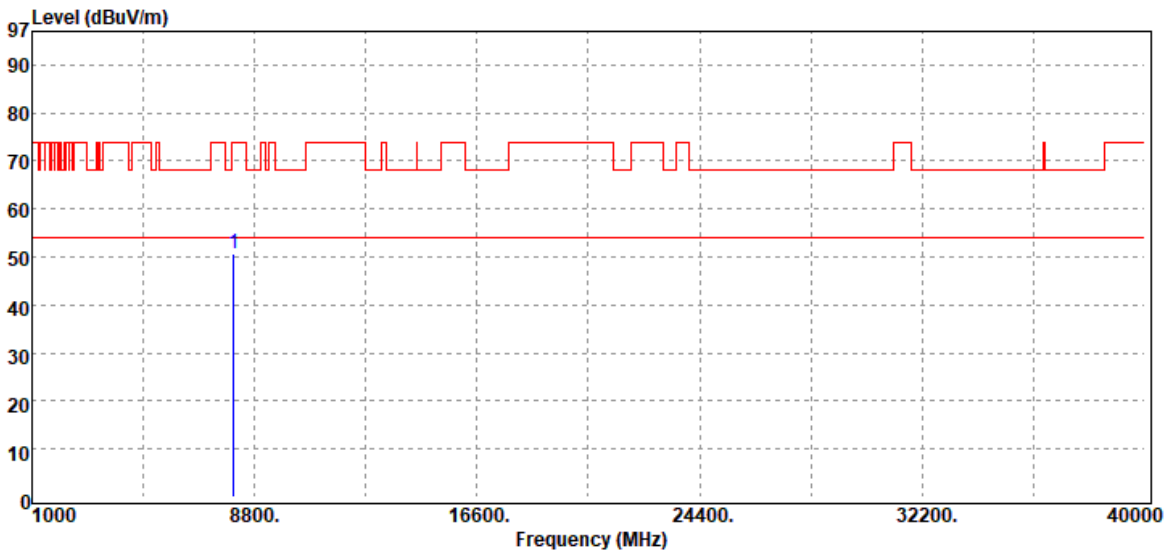
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Fully System

Project Number :T190430W01
Operation Band :Fully System
Frequency :Fully System
Operation Mode :Fully System
EUT Pol. :E2 Plan

Test Date :2019-06-04
Temp./Humi. :21/55
Antenna Pol. :VERTICAL
Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
8080.00	Peak	39.17	11.37	50.54	74.00	-23.46

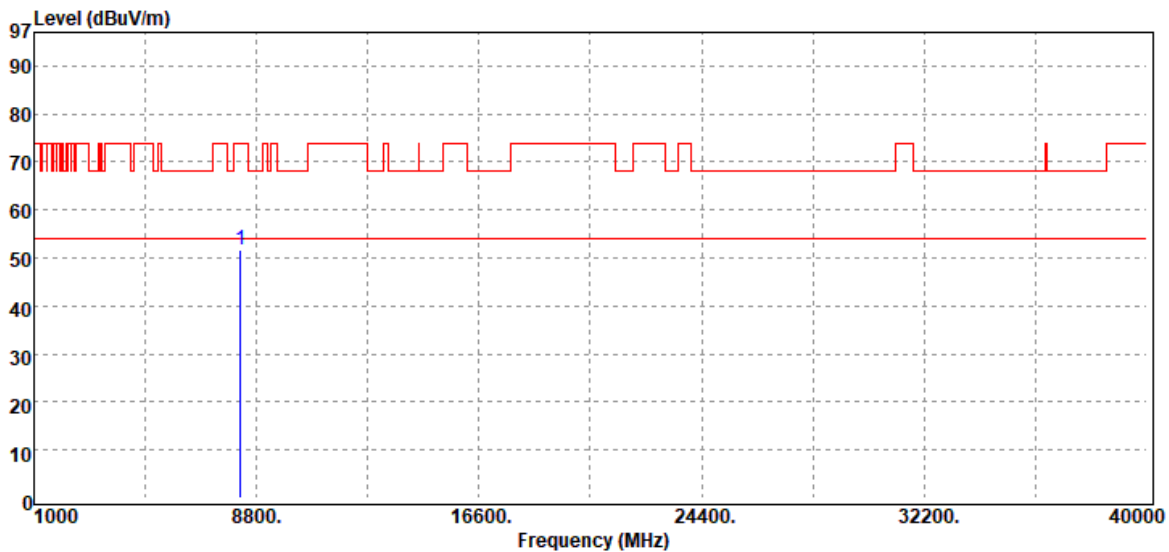
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Project Number :T190430W01
 Operation Band :Fully System
 Frequency :Fully System
 Operation Mode :Fully System
 EUT Pol. :E2 Plan

Test Date :2019-06-04
 Temp./Humi. :21/55
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
8250.00	Peak	40.43	11.34	51.77	74.00	-22.23

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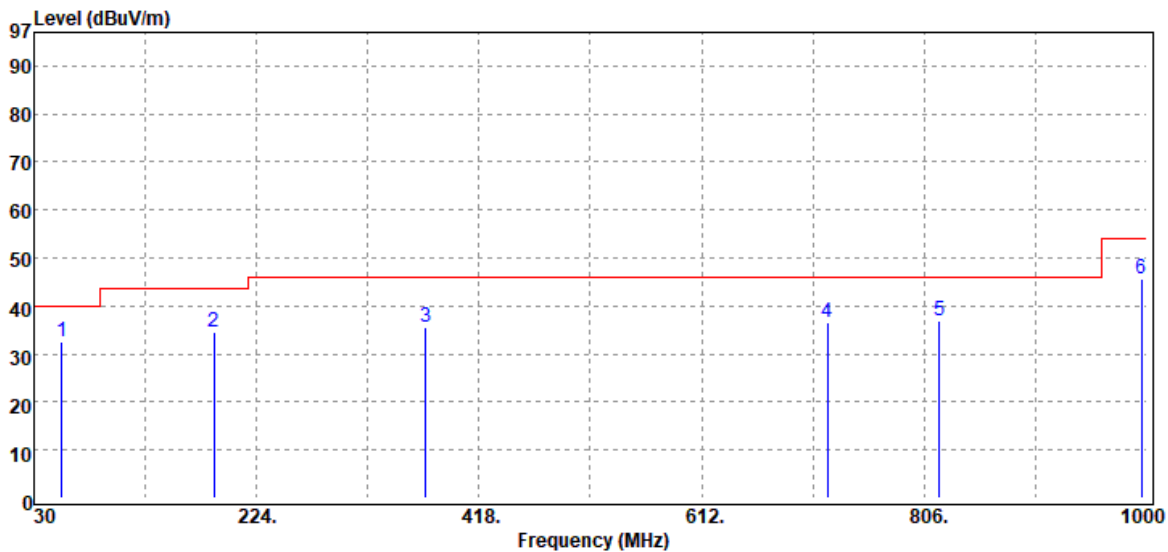
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6.5.3 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Dipole antenna (Model No.: WTS2450)
BLE 1M

Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Rx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	48.40	-15.95	32.45	40.00	-7.55
187.14	Peak	45.56	-10.98	34.58	43.50	-8.92
371.44	Peak	42.03	-6.42	35.61	46.00	-10.39
721.61	Peak	35.90	0.74	36.64	46.00	-9.36
819.58	Peak	34.09	2.96	37.05	46.00	-8.95
995.15	Peak	40.61	5.17	45.78	54.00	-8.22

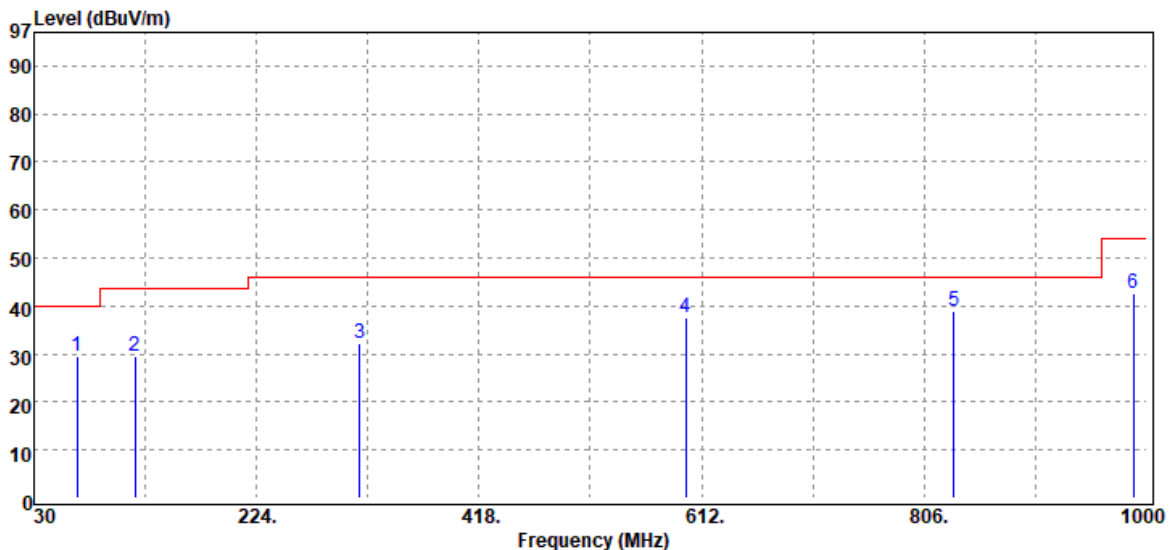
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Rx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
67.83	Peak	44.39	-14.85	29.54	40.00	-10.46
118.27	Peak	38.32	-8.95	29.37	43.50	-14.13
314.21	Peak	40.05	-7.76	32.29	46.00	-13.71
598.42	Peak	39.19	-1.65	37.54	46.00	-8.46
832.19	Peak	35.36	3.45	38.81	46.00	-7.19
988.36	Peak	37.02	5.46	42.48	54.00	-11.52

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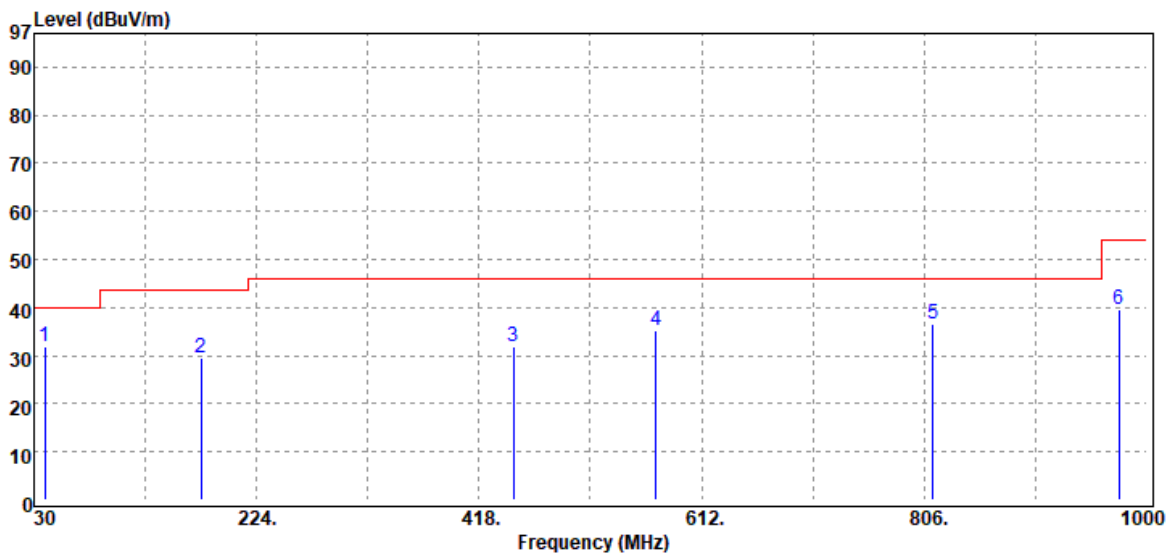
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BLE 2M

Project Number : T190430W01
Operation Band : BLE 2M
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.70	Peak	41.12	-9.31	31.81	40.00	-8.19
175.50	Peak	40.63	-11.11	29.52	43.50	-13.98
448.07	Peak	35.67	-3.86	31.81	46.00	-14.19
572.23	Peak	37.32	-1.93	35.39	46.00	-10.61
813.76	Peak	34.31	2.43	36.74	46.00	-9.26
975.75	Peak	34.02	5.54	39.56	54.00	-14.44

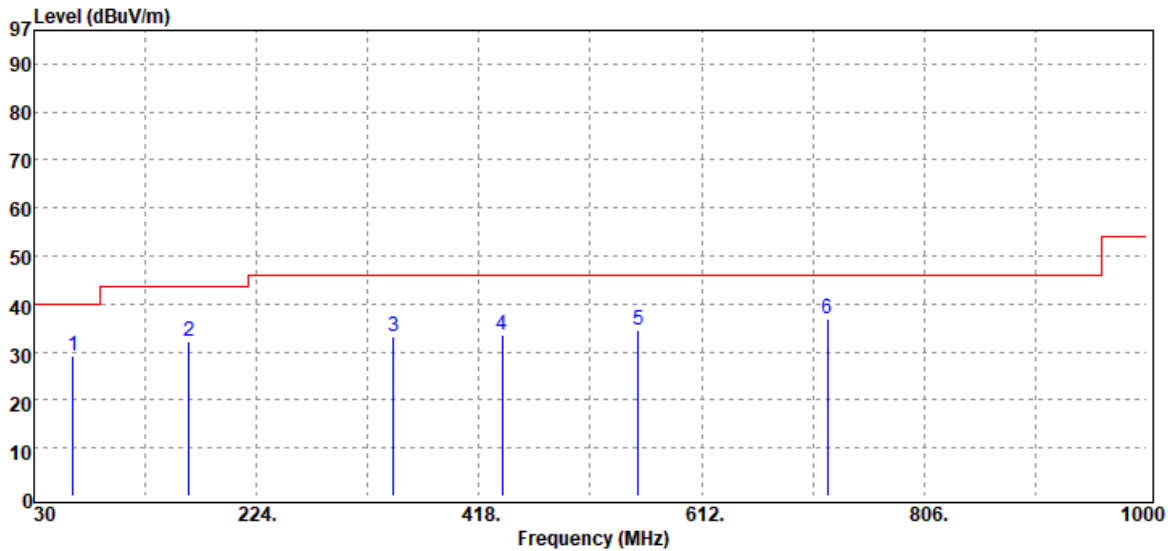
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Project Number : T190430W01
Operation Band : BLE 2M
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.95	Peak	44.42	-15.28	29.14	40.00	-10.86
164.83	Peak	42.41	-10.32	32.09	43.50	-11.41
343.31	Peak	40.28	-7.14	33.14	46.00	-12.86
438.37	Peak	37.86	-4.21	33.65	46.00	-12.35
556.71	Peak	37.05	-2.34	34.71	46.00	-11.29
721.61	Peak	36.13	0.74	36.87	46.00	-9.13

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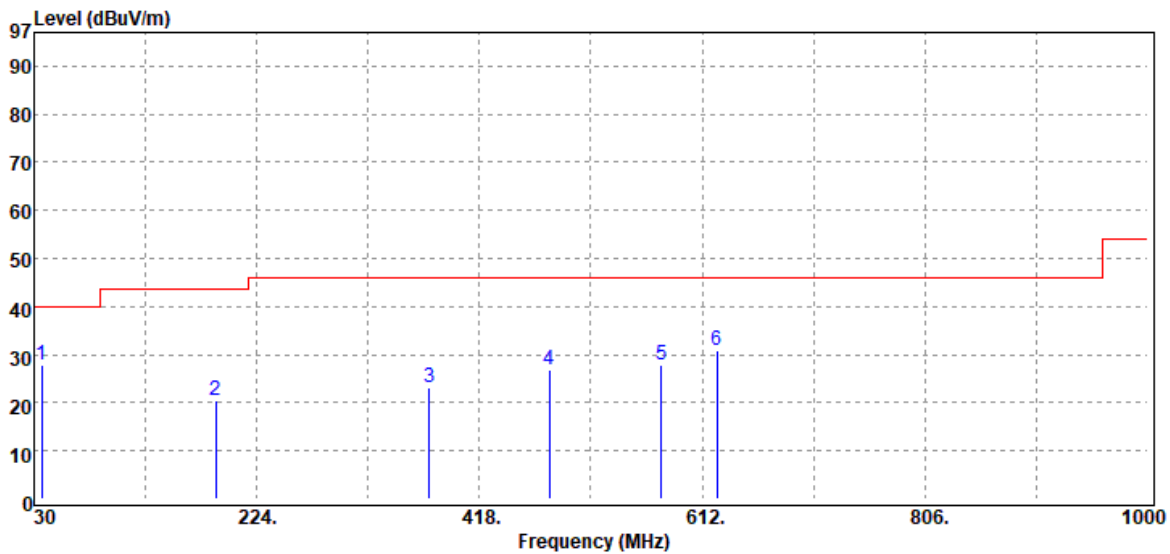
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PCB Antenna BLE 1M

Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
36.79	Peak	35.04	-7.08	27.96	40.00	-12.04
188.11	Peak	31.57	-10.97	20.60	43.50	-22.90
374.35	Peak	29.59	-6.37	23.22	46.00	-22.78
479.11	Peak	29.89	-2.98	26.91	46.00	-19.09
576.11	Peak	29.78	-1.82	27.96	46.00	-18.04
624.61	Peak	31.46	-0.55	30.91	46.00	-15.09

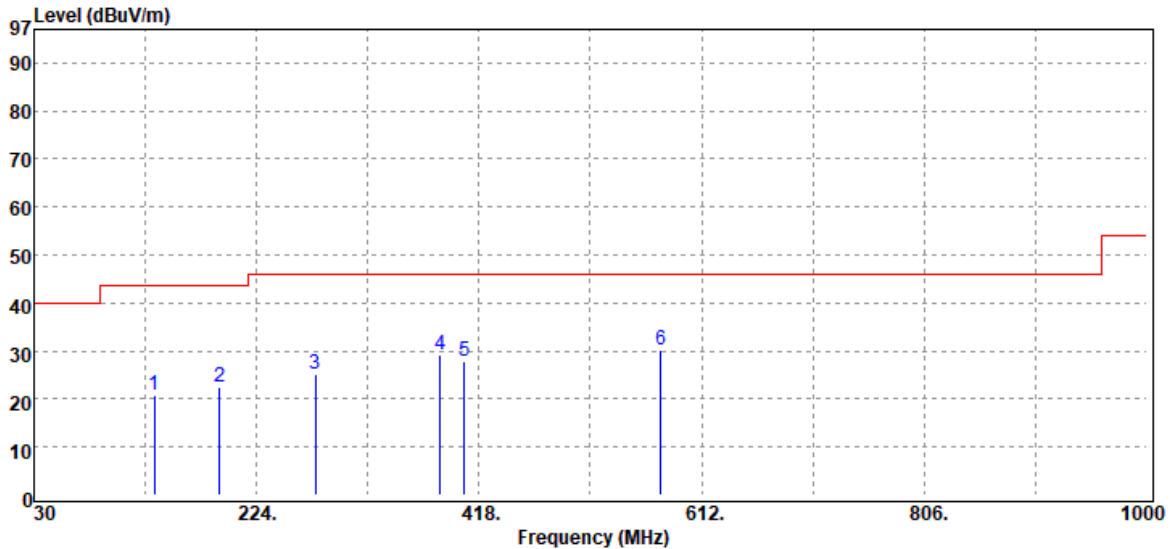
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Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
134.76	Peak	30.16	-9.39	20.77	43.50	-22.73
191.99	Peak	33.13	-10.55	22.58	43.50	-20.92
275.41	Peak	33.69	-8.42	25.27	46.00	-20.73
384.05	Peak	35.34	-6.24	29.10	46.00	-16.90
405.39	Peak	33.14	-5.34	27.80	46.00	-18.20
576.11	Peak	32.17	-1.82	30.35	46.00	-15.65

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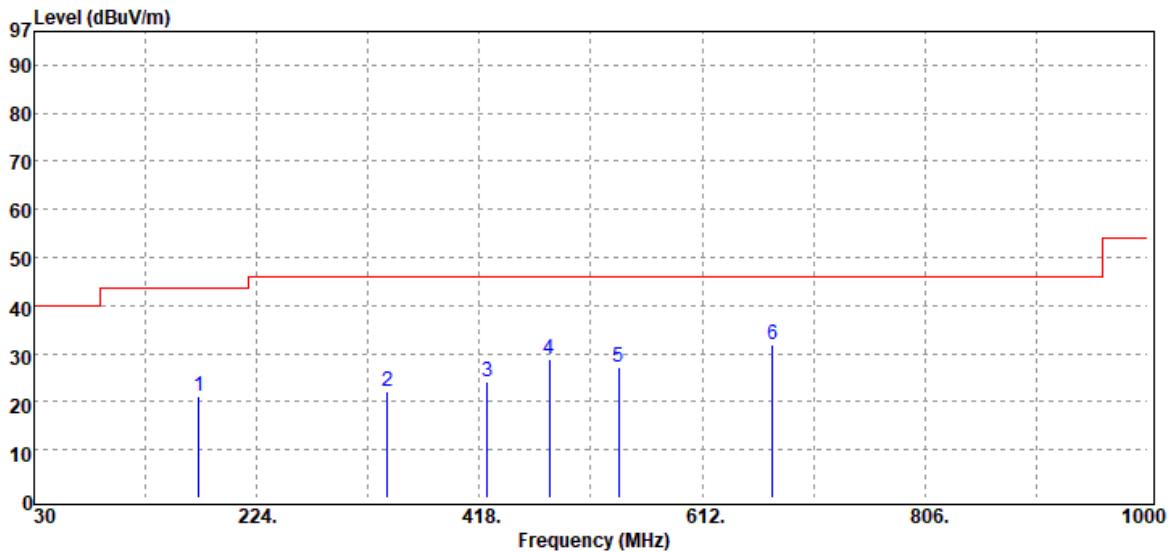
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BLE 2M

Project Number : T190430W01
Operation Band : BLE(2M)
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
173.56	Peak	32.07	-10.99	21.08	43.50	-22.42
337.49	Peak	29.10	-7.10	22.00	46.00	-24.00
424.79	Peak	28.81	-4.51	24.30	46.00	-21.70
479.11	Peak	31.71	-2.98	28.73	46.00	-17.27
539.25	Peak	29.32	-2.25	27.07	46.00	-18.93
673.11	Peak	32.00	-0.13	31.87	46.00	-14.13

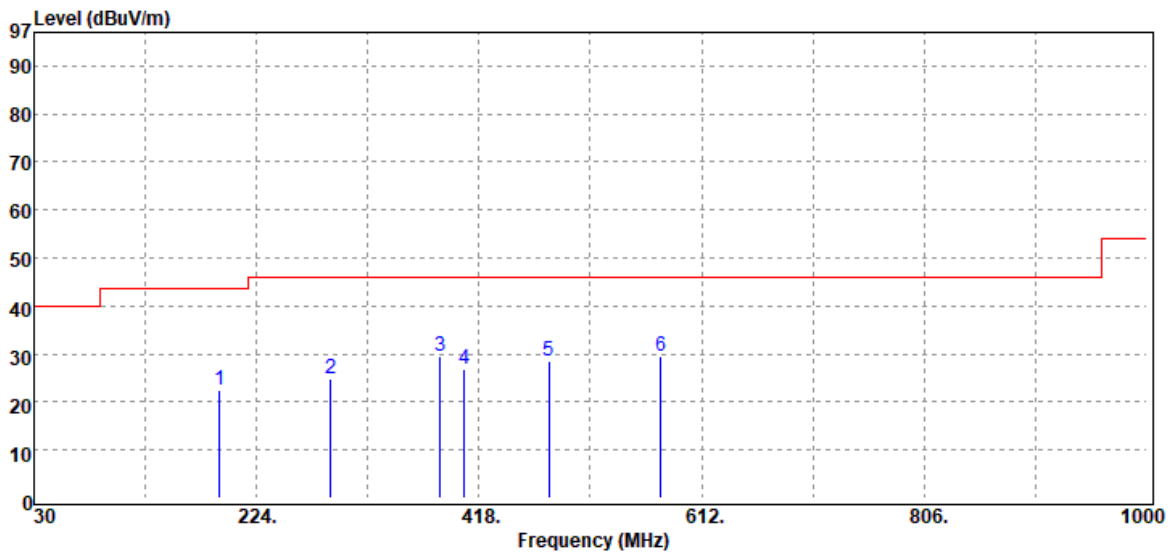
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2442 MHz
 Operation Mode : Rx CH MID
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
191.99	Peak	32.92	-10.55	22.37	43.50	-21.13
288.99	Peak	33.30	-8.36	24.94	46.00	-21.06
384.05	Peak	35.93	-6.24	29.69	46.00	-16.31
405.39	Peak	32.26	-5.34	26.92	46.00	-19.08
479.11	Peak	31.47	-2.98	28.49	46.00	-17.51
576.11	Peak	31.26	-1.82	29.44	46.00	-16.56

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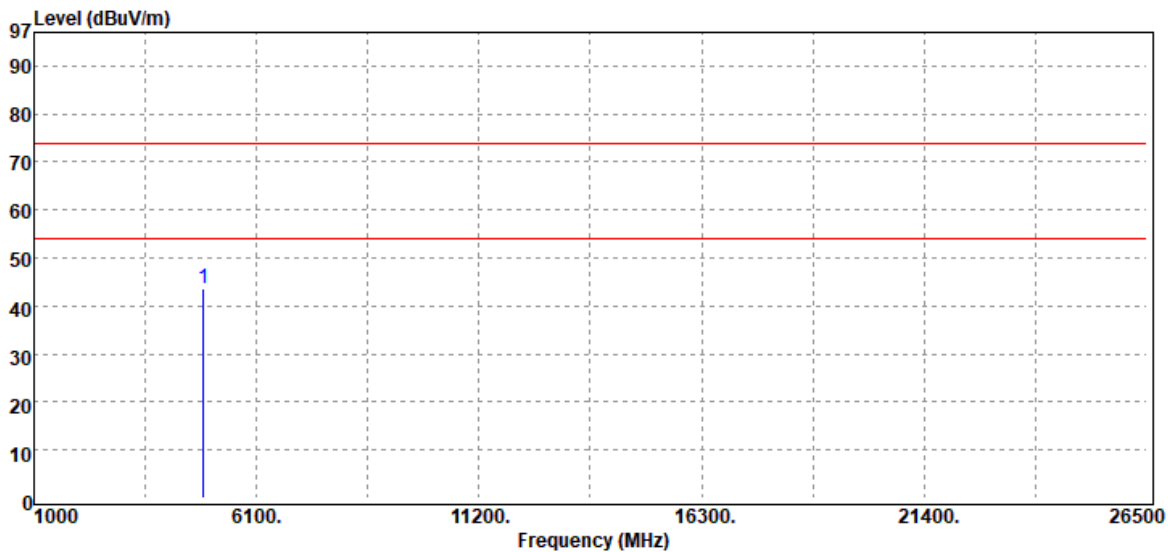
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6.5.4 接收模式場強輻射之量測結果(1GHz 以上) (最差模式)

Dipole Antenna (Model No.: WTS2450)
BLE 1M

Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Rx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
4884.00	Peak	40.49	3.05	43.54	74.00	-30.46

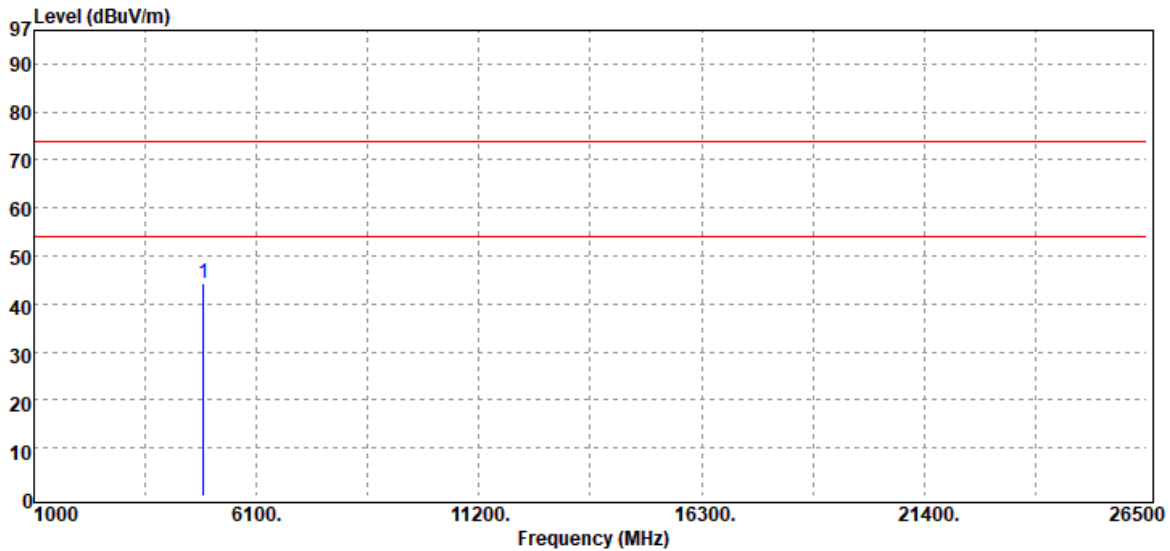
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Rx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4884.00	Peak	41.21	3.05	44.26	74.00	-29.74

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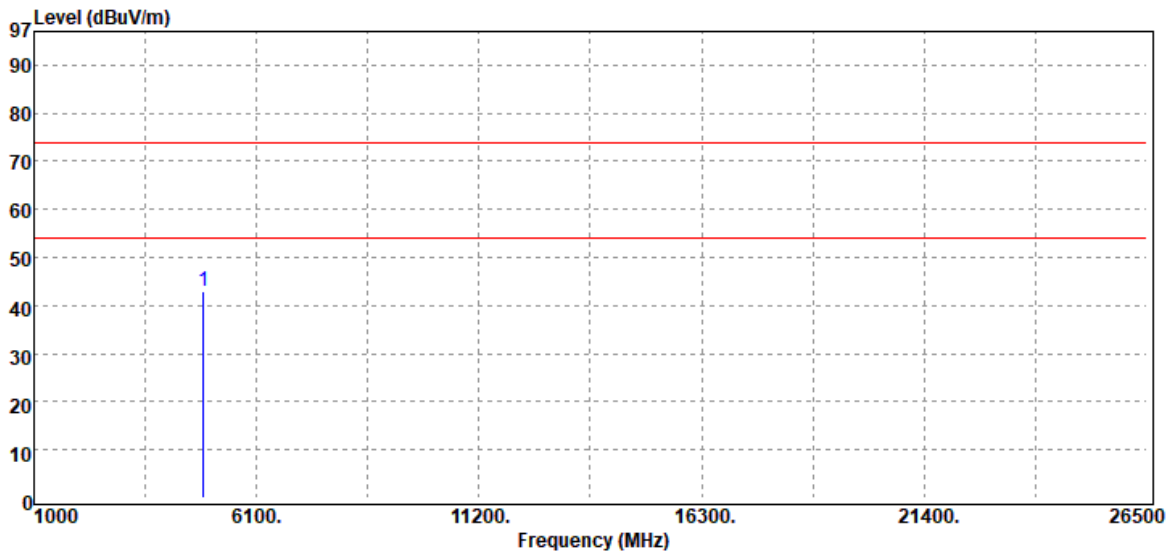
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BLE 2M

Project Number : T190430W01
Operation Band : BLE 2M
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4884.00	Peak	40.01	3.05	43.06	74.00	-30.94

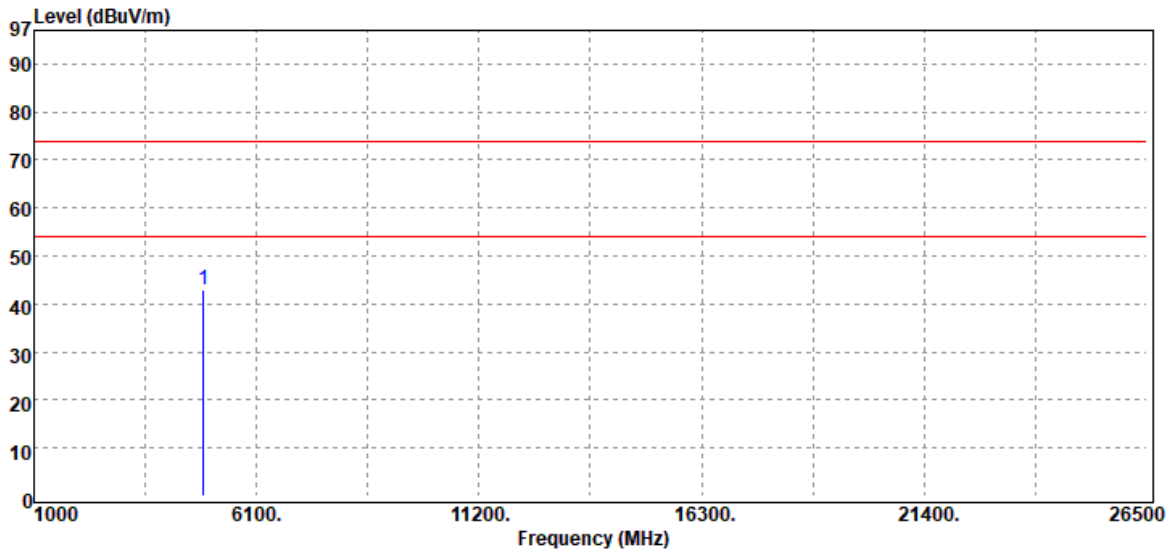
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2442 MHz
 Operation Mode : Rx CH Mid
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4884.00	Peak	40.04	3.05	43.09	74.00	-30.91

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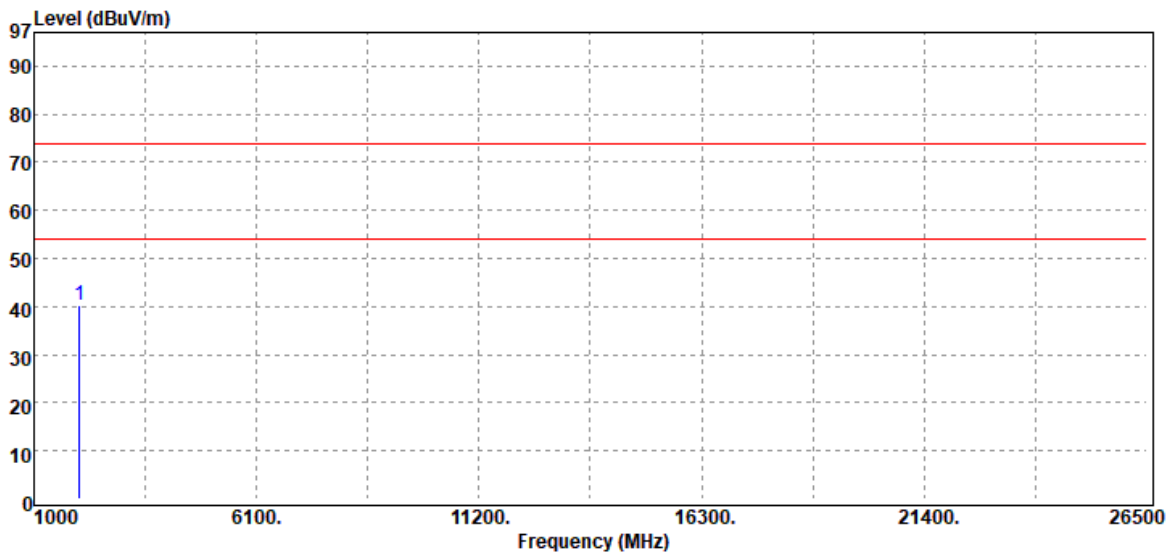
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PCB Antenna BLE 1M

Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2036.00	Peak	44.01	-3.86	40.15	74.00	-33.85

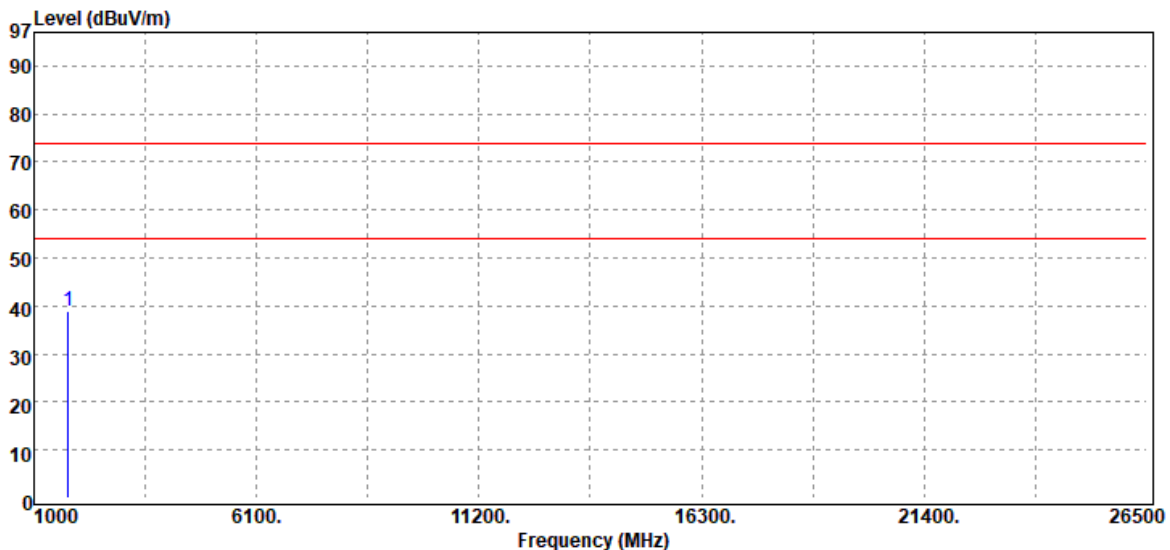
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2442 MHz
 Operation Mode : Rx CH MID
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
1791.00	Peak	45.30	-6.29	39.01	74.00	-34.99

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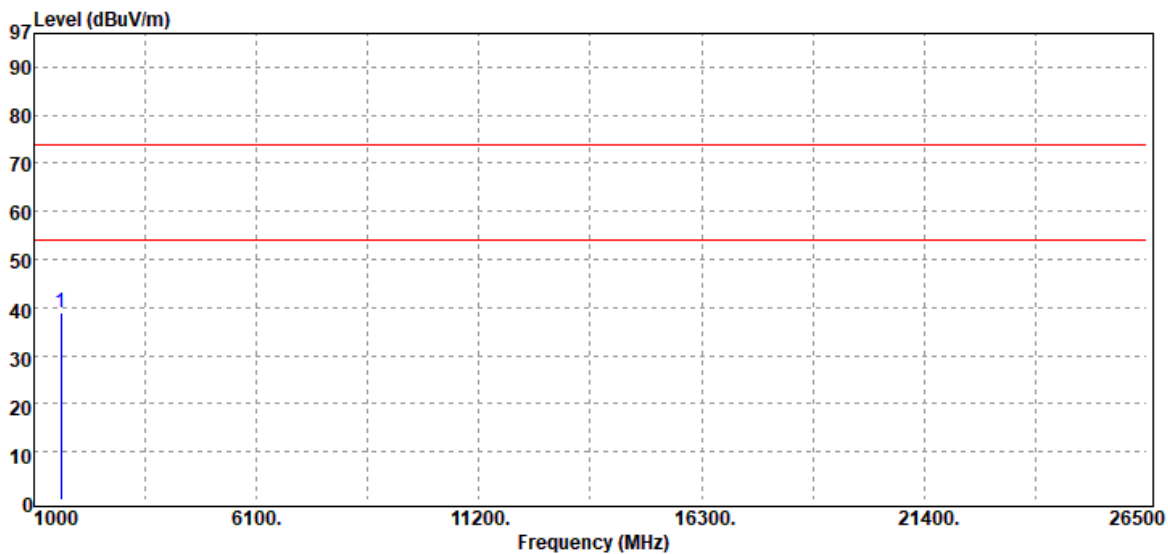
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BLE 2M

Project Number : T190430W01
Operation Band : BLE(2M)
Fundamental Frequency : 2442 MHz
Operation Mode : Rx CH MID
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1616.00	Peak	46.16	-7.06	39.10	74.00	-34.90

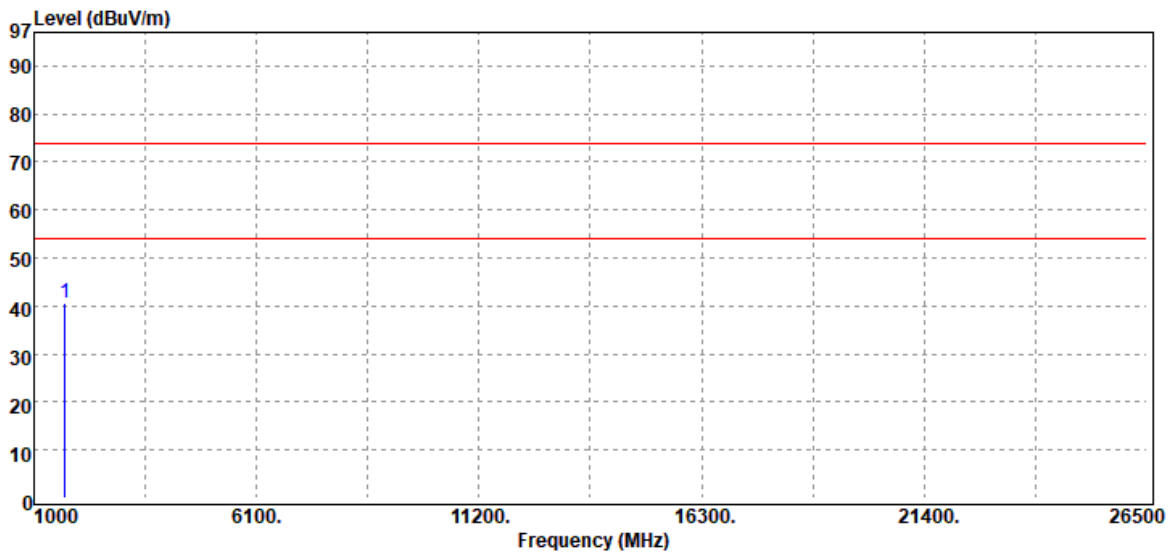
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 Operation Mode : Rx CH MID
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
1714.00	Peak	47.03	-6.56	40.47	74.00	-33.53

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7 天線增益之要求

7.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

7.2 天線增益

此裝置使用天線如下：

天線型式/天線增益	1. Dipole Antenna, Supplier: LAIRD Model No: WTS2450 Gain: 2.1dBi (2.4G) 2. Dipole Antenna, Supplier: LARSEN Model No: R380500314 Gain: 1.6dBi (2.4G) 3. Printed Antenna Supplier: N/A Model No: N/A Chain0: Gain: 1.1dBi (2.4G)
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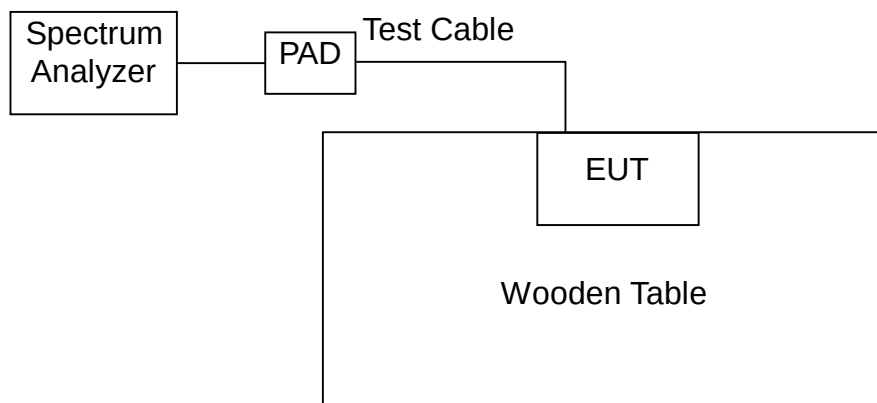
8 發射頻寬之要求

8.1 適用標準

對使用數位調變技術之低功率發射機，依據NCC低功率射頻電機技術規範3.10.1.6(2) (A)之規定，6dB之頻寬至少應有500kHz。

8.2 測試配置

圖 4: 發射頻寬之測試配置



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8.3 量測結果

BLE 1M

頻率 (MHz)	頻寬讀值 (kHz)	限制值 (kHz)	結果
2402	683.2	> 500	PASS
2442	680.4	> 500	PASS
2480	684.3	> 500	PASS

* offset 1.2dB

BLE 2M

頻率 (MHz)	頻寬讀值 (kHz)	限制值 (kHz)	結果
2402	1161	> 500	PASS
2442	1167	> 500	PASS
2480	1168	> 500	PASS

* offset 1.2dB

Refer next page for test plots

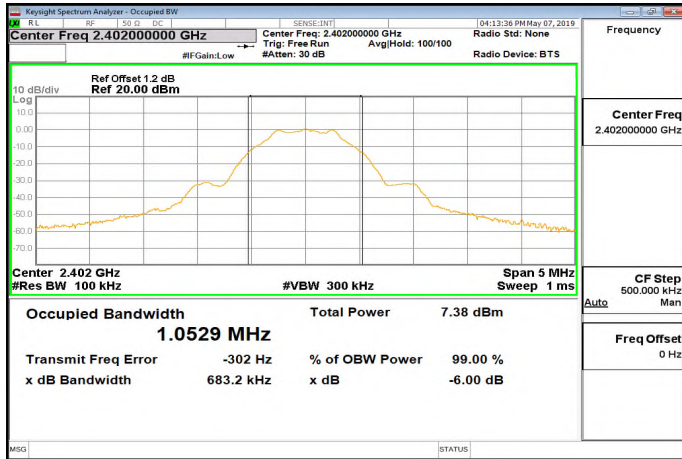
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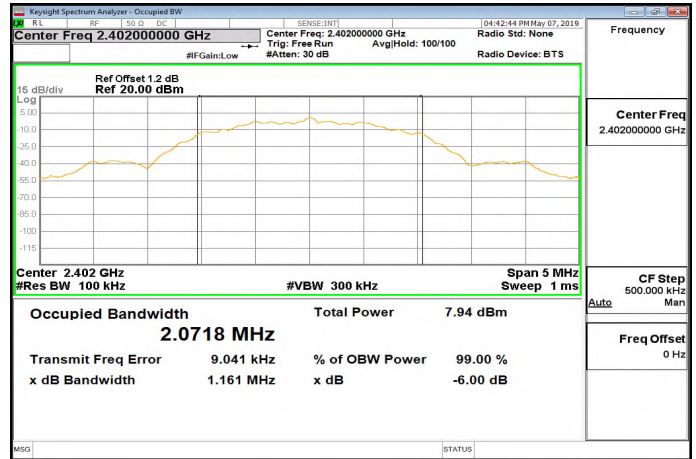
BLE 1M

發射頻寬 6dB 之要求 BLE 1M LowCH00-2402

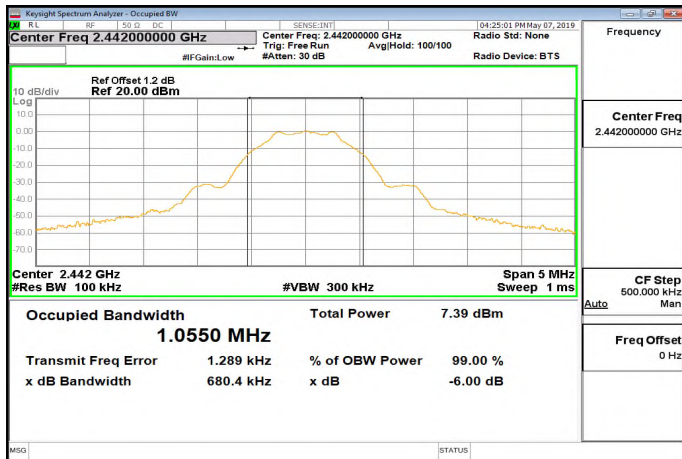


BLE 2M

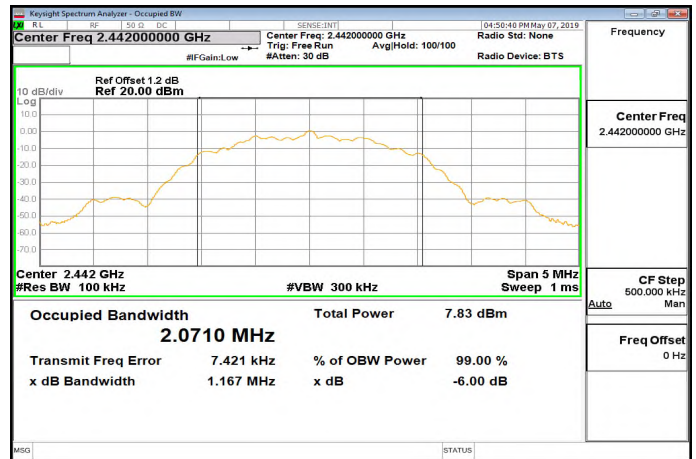
發射頻寬 6dB 之要求 BLE 2M LowCH00-2402



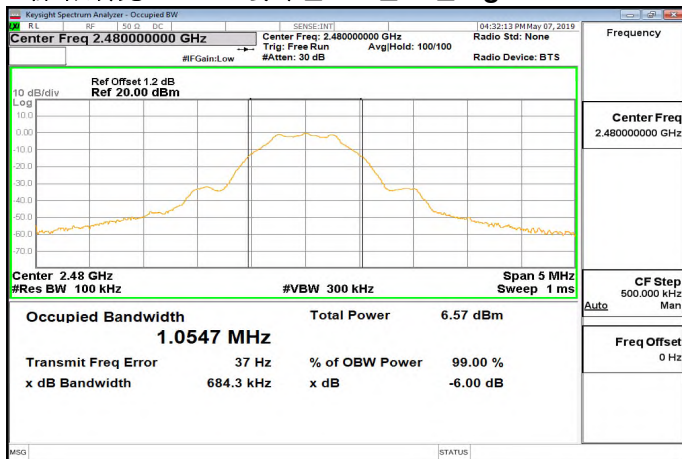
發射頻寬 6dB 之要求 BLE 1M MidCH20-2442



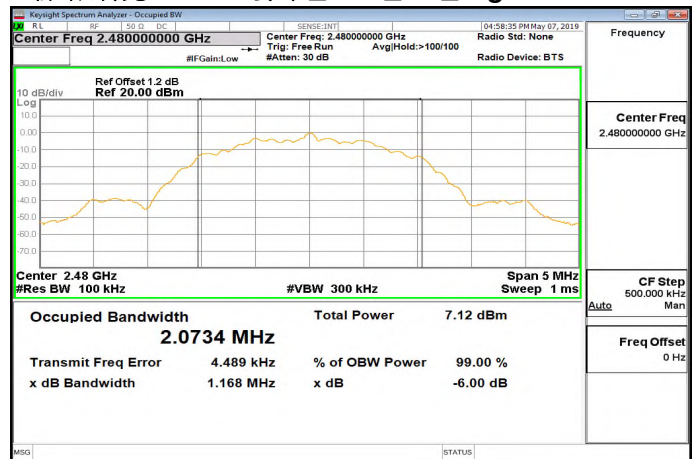
發射頻寬 6dB 之要求 BLE 2M MidCH20-2442



發射頻寬 6dB 之要求 BLE 1M HighCH39-2480



發射頻寬 6dB 之要求 BLE 2M HighCH39-2480



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9 輸出峰值功率之量測

9.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1.2(1) (A)(C)之規定，操作於 2400-2483.5MHz 與 5725-5850MHz 之所有數位調變技術系統：1 Watt(含)以下。

依據NCC低功率射頻電機技術規範3.10.1.3之規定，用於非固定式點對點操作時，若其發射天線之方向性增益超過6dBi，應依所超過之dB數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情現之一：

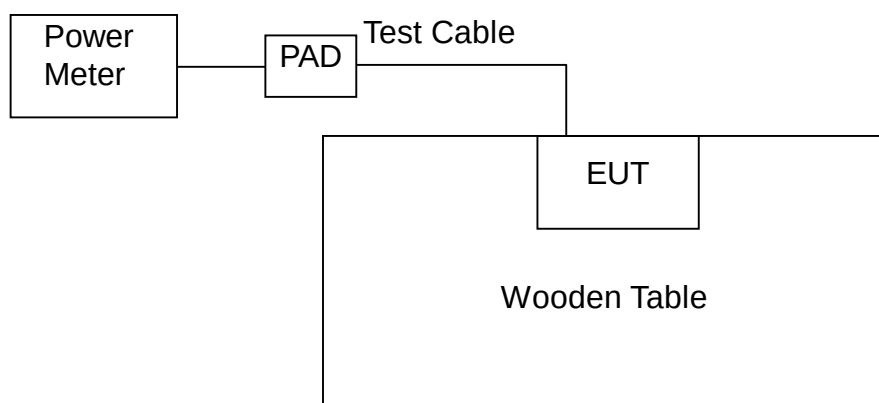
依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

9.2 輸出功率之測試配置



*註：此產品為點對多點操作

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9.3 輸出功率之量測結果

BLE 1M

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	0.87	0.00122	1
2442.00	0.21	0.00105	1
2480.00	0.03	0.00101	1
Cable loss	1.2 dB		

BLE 2M

Frequency (MHz)	Reading Power (dBm)	Output Power (W)	Limit (W)
2402.00	1.12	0.00129	1
2442.00	0.35	0.00108	1
2480.00	0.04	0.00101	1
Cable loss	1.2 dB		

***Note:** 由 Power Meter 量測。

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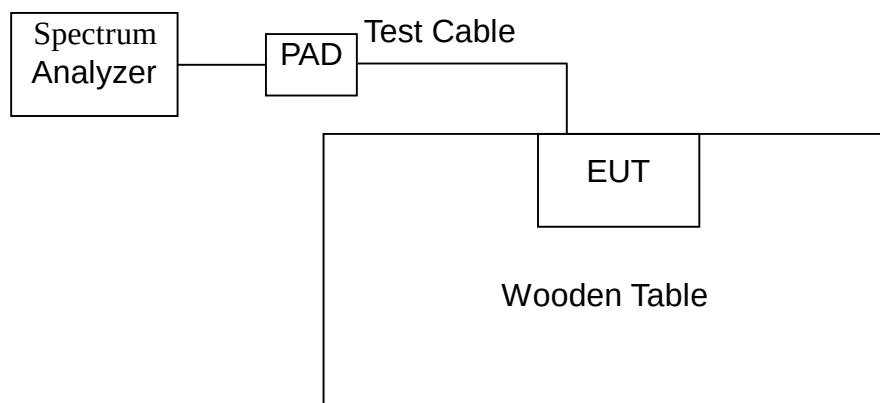
10 開放頻帶邊緣 100KHZ 頻寬內之限制

10.1 適用標準

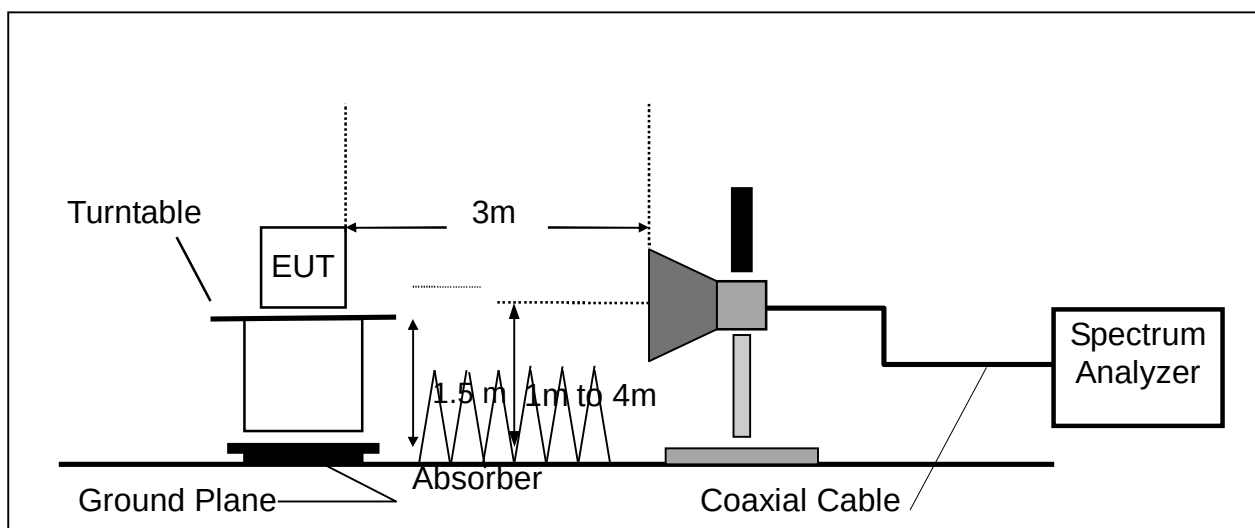
依據 NCC 低功率射頻電機技術規範 3.10.1.5 之規定，使用頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

10.2 開放頻帶邊緣之測試配置

(a) 傳導量測配置圖：



(b) 輻射量測配置圖：



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10.3 開放頻帶邊緣之量測結果

10.3.1 頻帶外發射傳導量測值

發射限制測試值 CH Low (下邊緣頻帶): 在 2400.00MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

發射限制測試值 CH High(上邊緣頻帶): 在 2483.50MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

BLE 1M

Band Edge Limit

Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit = PSD - 20dB
2402	0.47	-19.53
2442	0.46	-19.54
2480	-0.28	-20.28

NOTE: cable loss as 1.2dB that offsets in the spectrum

BLE 2M

Band Edge Limit

Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit = PSD - 20dB
2402	0.53	-19.47
2442	0.43	-19.57
2480	-0.28	-20.28

NOTE: cable loss as 1.2dB that offsets in the spectrum

Refer next page for test plots

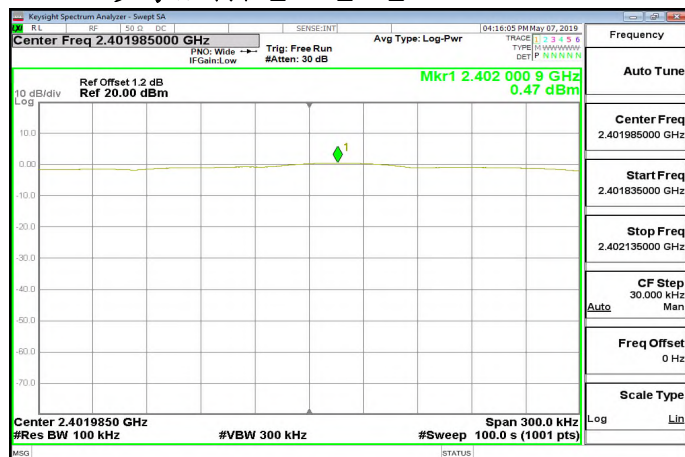
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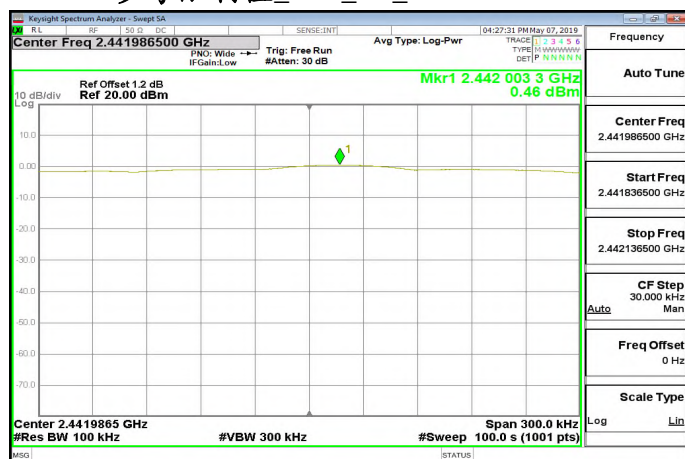
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BLE 1M

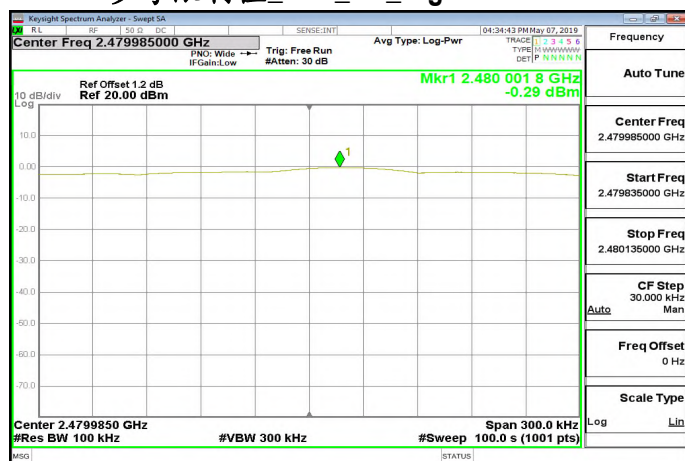
參考限制值_BLE_1M_LowCH00-2402



參考限制值_BLE_1M_MidCH20-2442

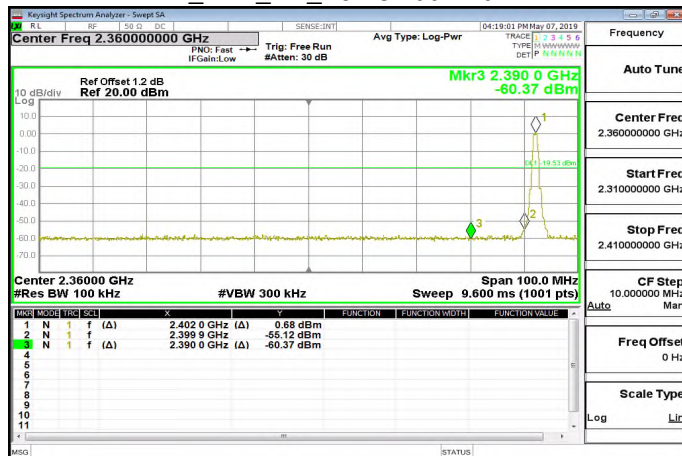


參考限制值_BLE_1M_HighCH39-2480



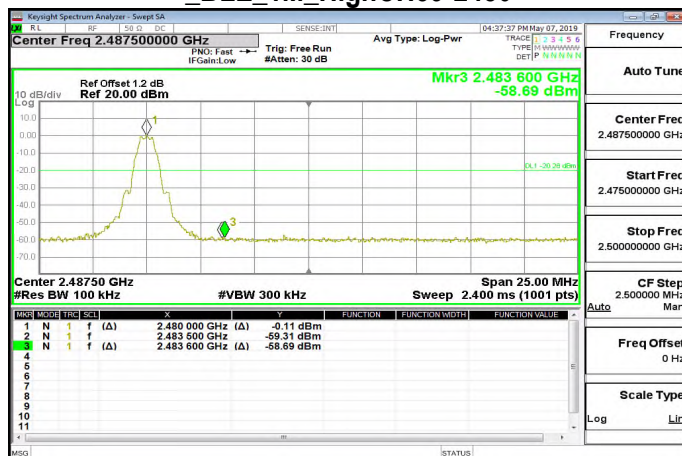
開放頻帶邊緣 100kHz 頻寬內之限制

BLE_1M_LowCH00-2402



開放頻帶邊緣 100kHz 頻寬內之限制

BLE_1M_HighCH39-2480



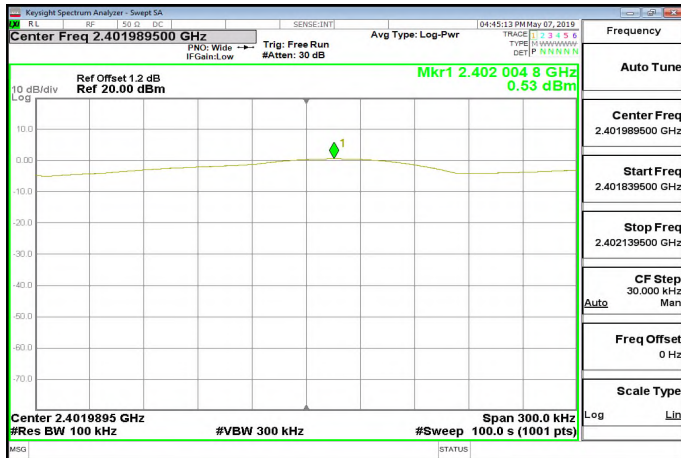
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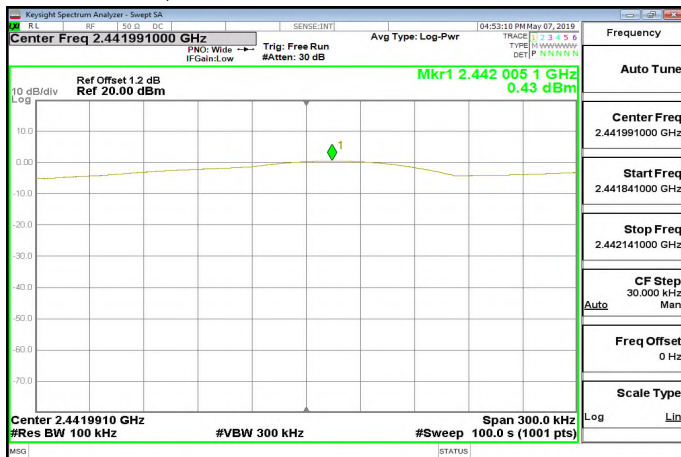
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BLE 2M

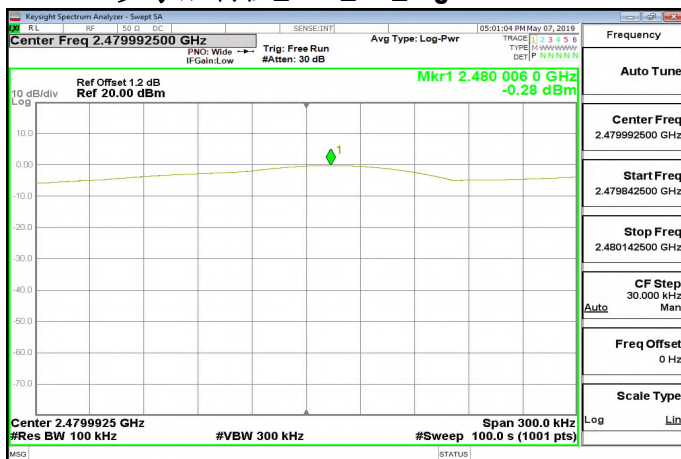
參考限制值_BLE_2M_LowCH00-2402



參考限制值_BLE_2M_MidCH20-2442

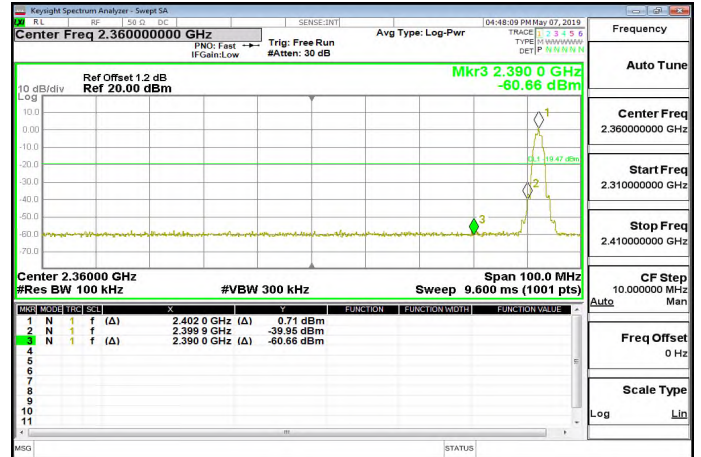


參考限制值_BLE_2M_HighCH39-2480



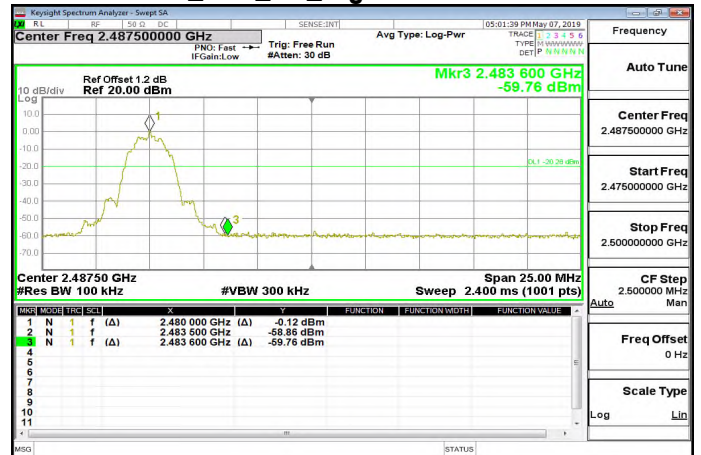
開放頻帶邊緣 100KHz 頻寬內之限制

BLE_2M_LowCH00-2402



開放頻帶邊緣 100KHz 頻寬內之限制

BLE_2M_HighCH39-2480



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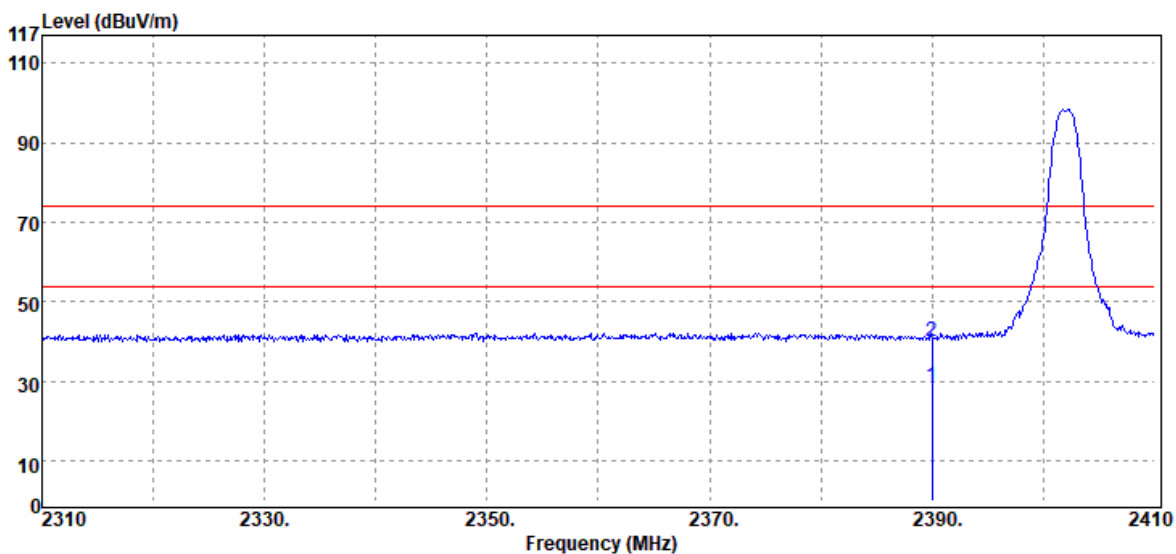
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10.3.2 禁用頻帶輻射量測值

Dipole Antenna (Model No.: WTS2450)
BLE 1M

Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2402 MHz
 Operation Mode : BE CH Low
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	32.29	-3.38	28.91	54.00	-25.09
2390.00	Peak	43.63	-3.38	40.25	74.00	-33.75

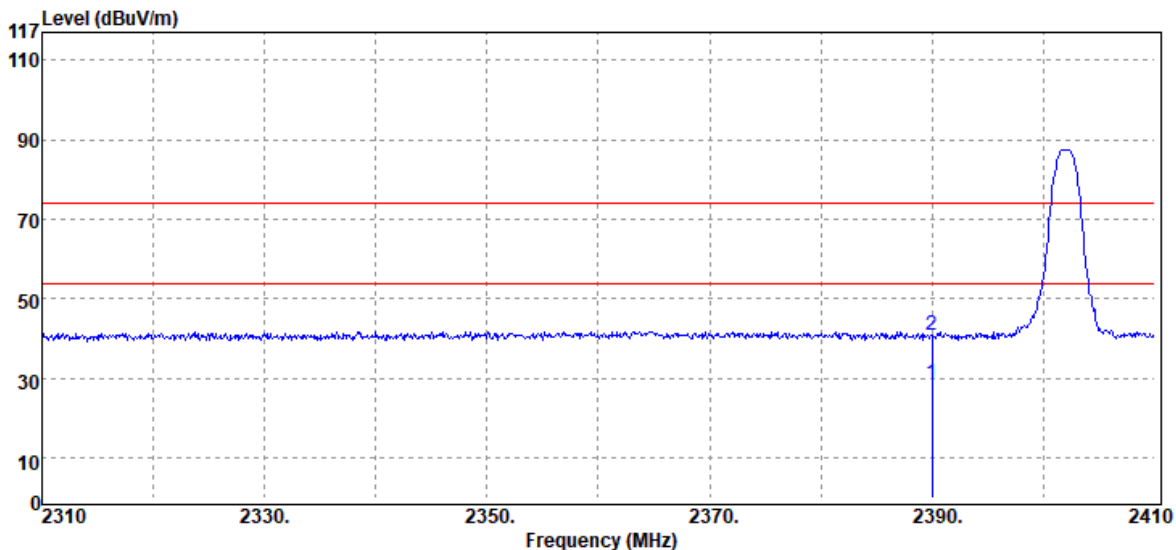
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2402 MHz
 Operation Mode : BE CH Low
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	32.08	-3.38	28.70	54.00	-25.30
2390.00	Peak	44.23	-3.38	40.85	74.00	-33.15

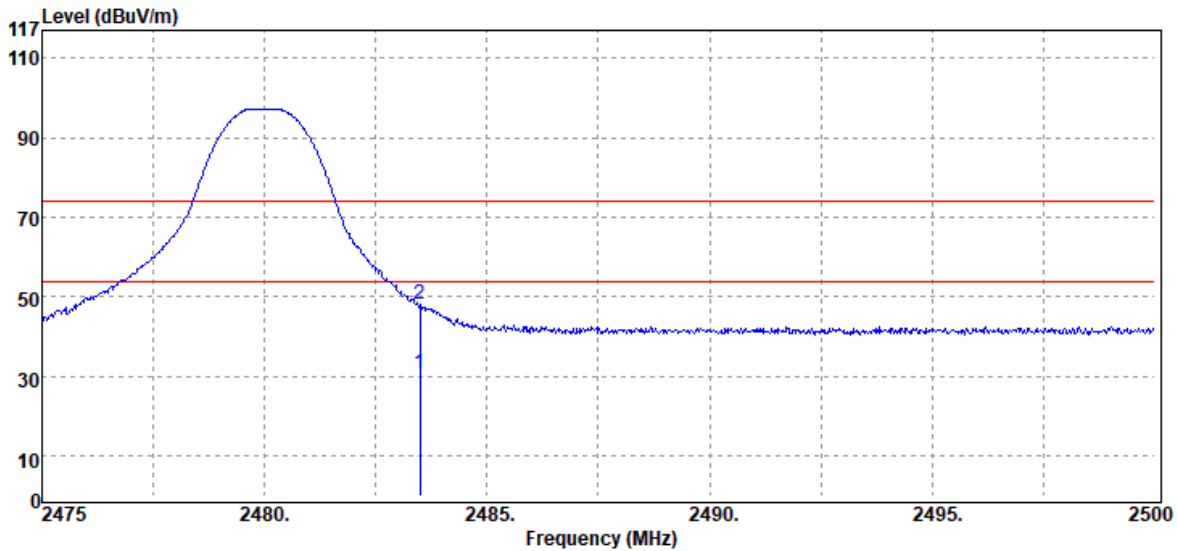
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2480 MHz
 Operation Mode : BE CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	33.57	-2.83	30.74	54.00	-23.26
2483.50	Peak	51.04	-2.83	48.21	74.00	-25.79

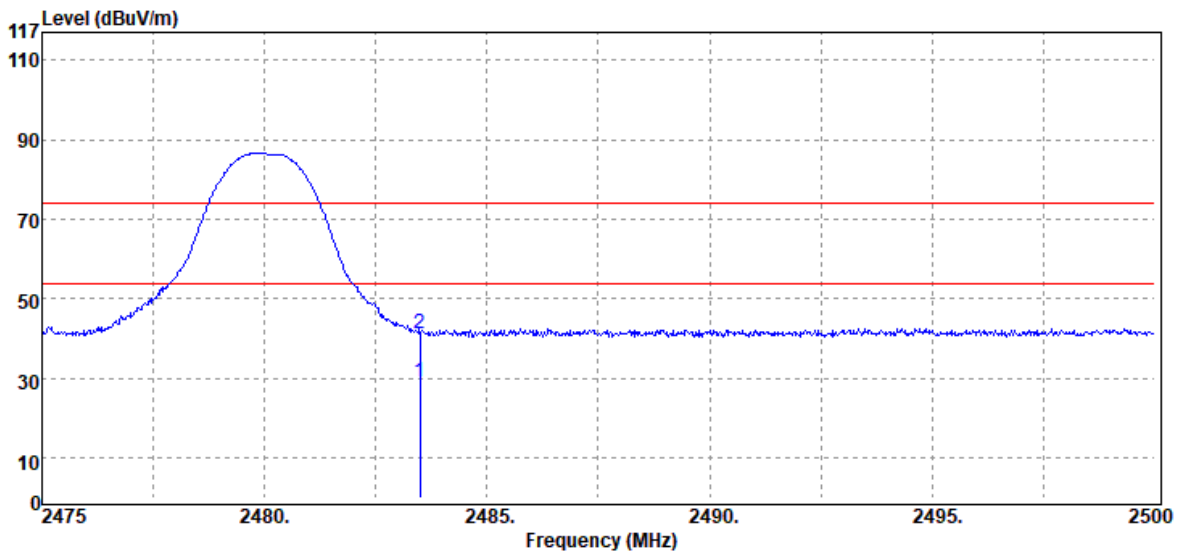
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Project Number : T190430W01
 Operation Band : BLE 1M
 Fundamental Frequency : 2480 MHz
 Operation Mode : BE CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	31.87	-2.83	29.04	54.00	-24.96
2483.50	Peak	44.01	-2.83	41.18	74.00	-32.82

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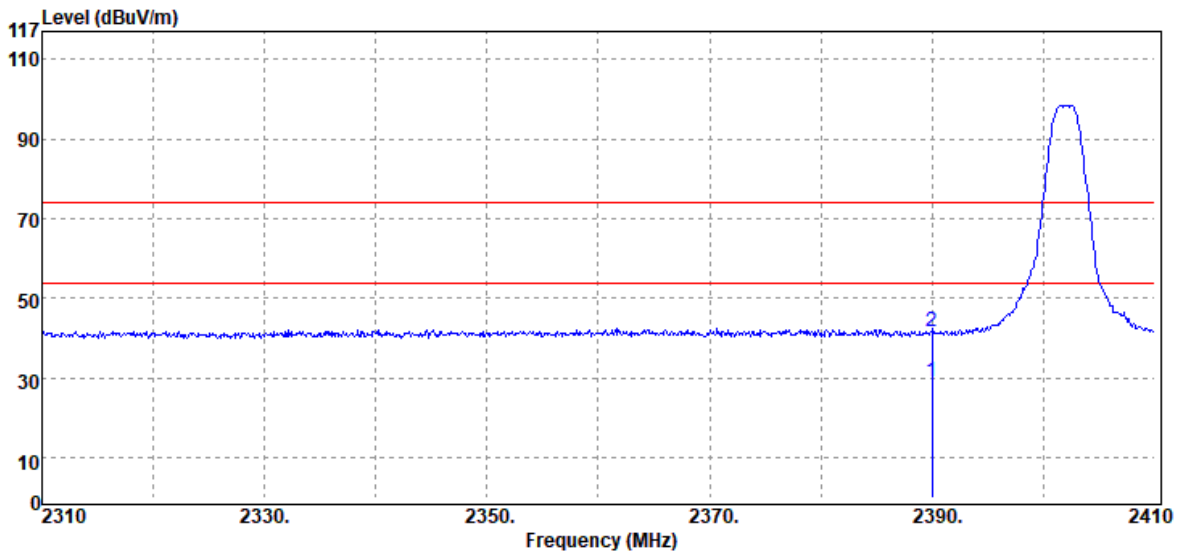
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BLE 2M

Project Number : T190430W01
Operation Band : BLE 2M
Fundamental Frequency : 2402 MHz
Operation Mode : BE CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-09
Temp./Humi. : 21/55
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	32.38	-3.38	29.00	54.00	-25.00
2390.00	Peak	45.28	-3.38	41.90	74.00	-32.10

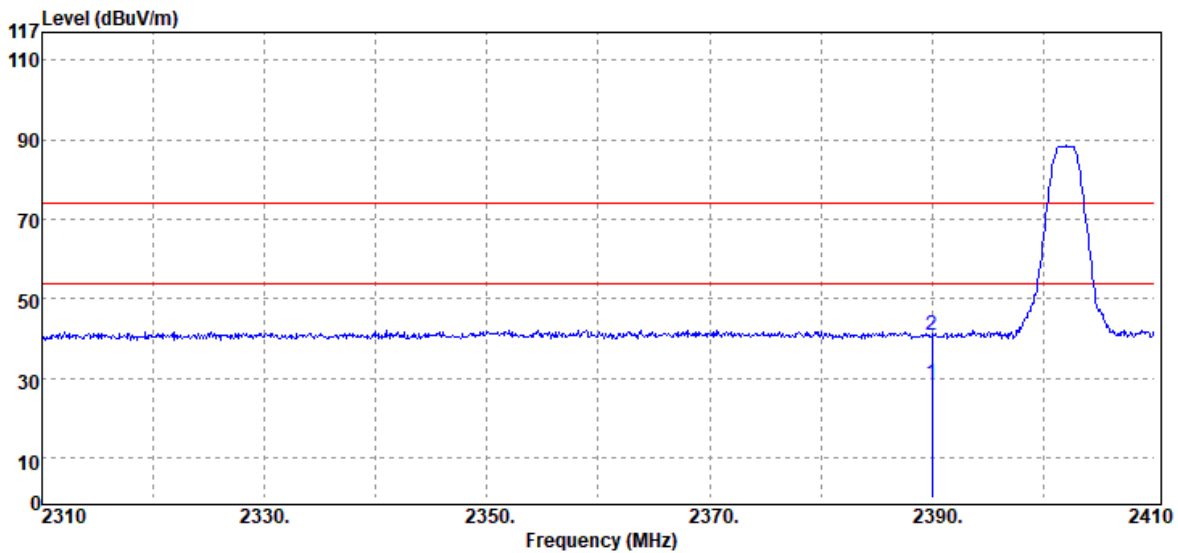
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2402 MHz
 Operation Mode : BE CH Low
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	32.19	-3.38	28.81	54.00	-25.19
2390.00	Peak	44.10	-3.38	40.72	74.00	-33.28

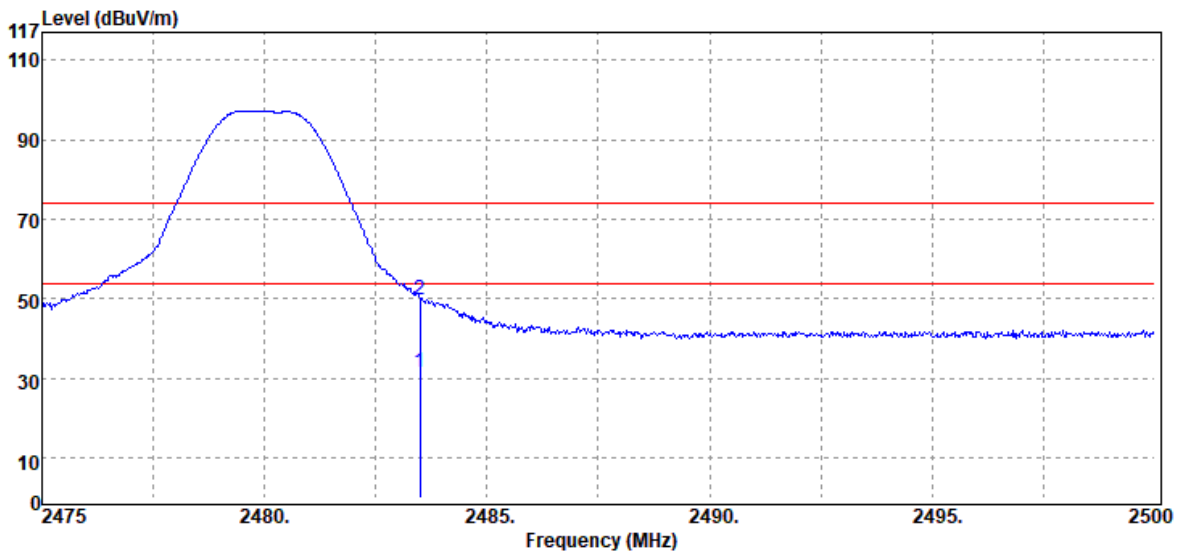
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2480 MHz
 Operation Mode : BE CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	34.33	-2.83	31.50	54.00	-22.50
2483.50	Peak	52.46	-2.83	49.63	74.00	-24.37

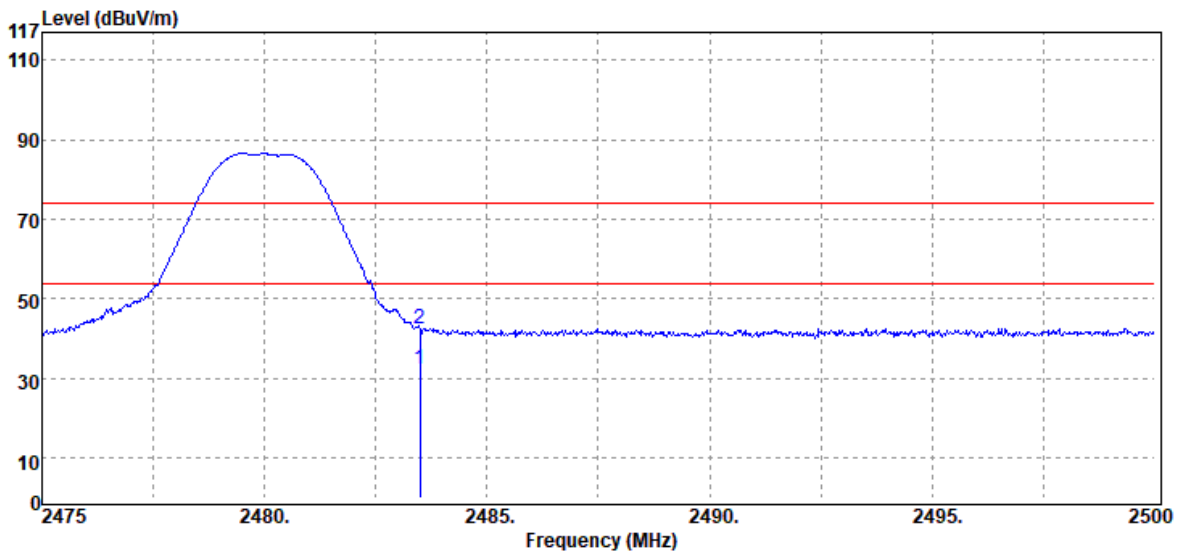
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Project Number : T190430W01
 Operation Band : BLE 2M
 Fundamental Frequency : 2480 MHz
 Operation Mode : BE CH High
 EUT Pol. : E2 Plan

Test Date : 2019-05-09
 Temp./Humi. : 21/55
 Engineer : Jerry
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	35.15	-2.83	32.32	54.00	-21.68
2483.50	Peak	45.32	-2.83	42.49	74.00	-31.51

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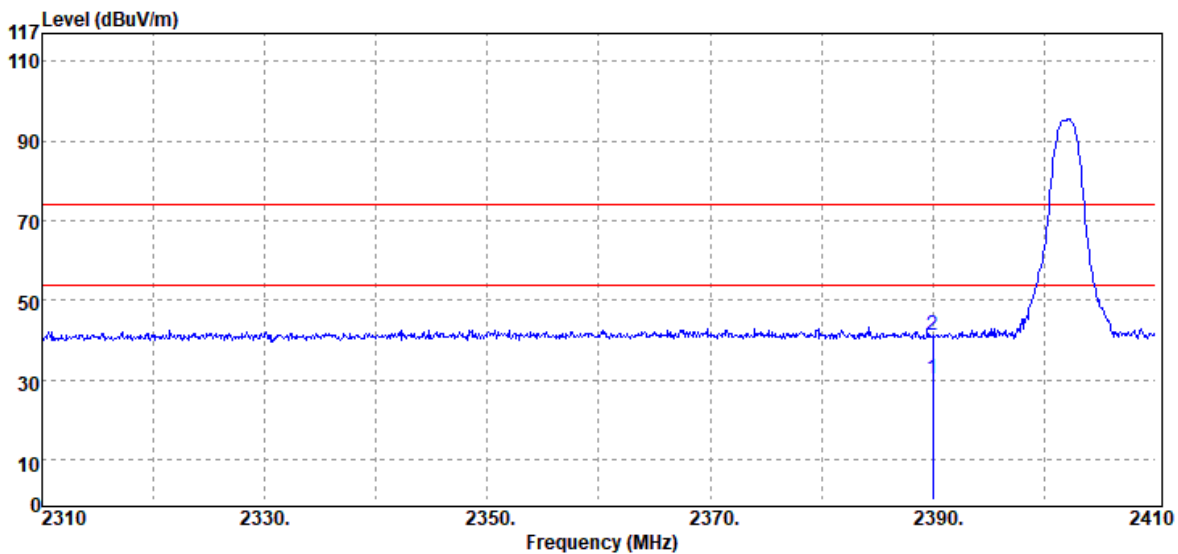
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PCB Antenna BLE 1M

Project Number : T190430W01
Operation Band : BLE(1M)
Fundamental Frequency : 2402 MHz
Operation Mode : Bandedge CH LOW
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	33.94	-3.38	30.56	54.00	-23.44
2390.00	Peak	44.61	-3.38	41.23	74.00	-32.77

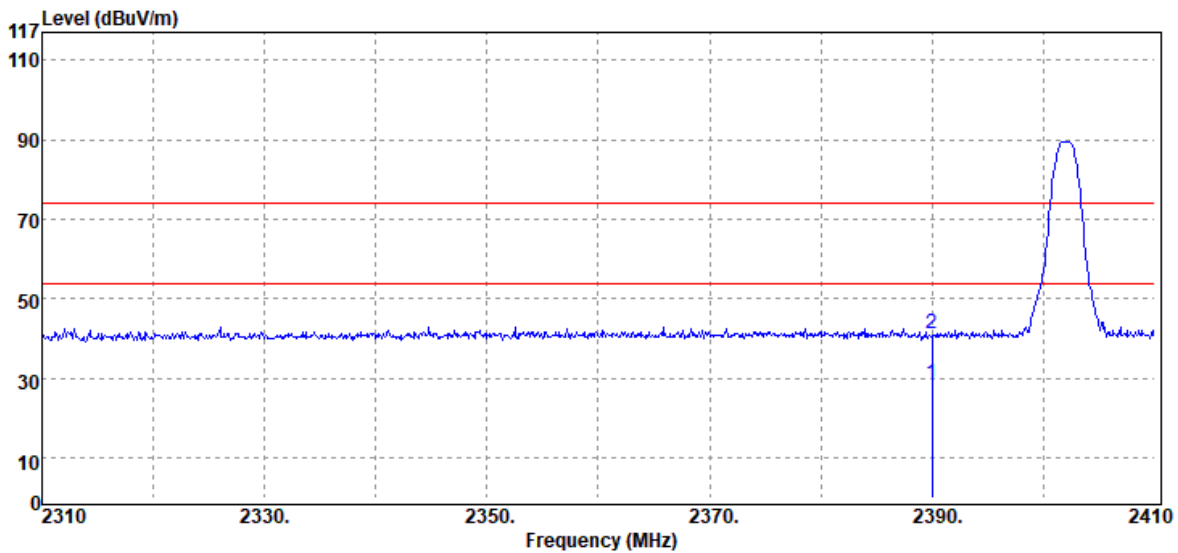
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2402 MHz
 Operation Mode : Bandedge CH LOW
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	32.18	-3.38	28.80	54.00	-25.20
2390.00	Peak	44.51	-3.38	41.13	74.00	-32.87

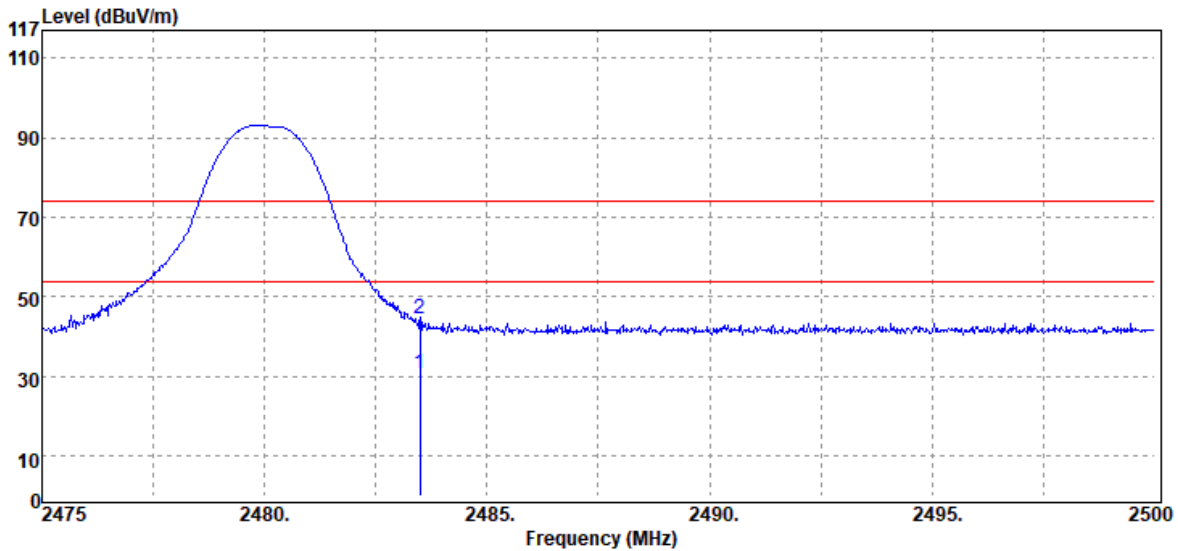
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2480 MHz
 Operation Mode : Bandedge CH HIGH
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	33.63	-2.83	30.80	54.00	-23.20
2483.50	Peak	47.52	-2.83	44.69	74.00	-29.31

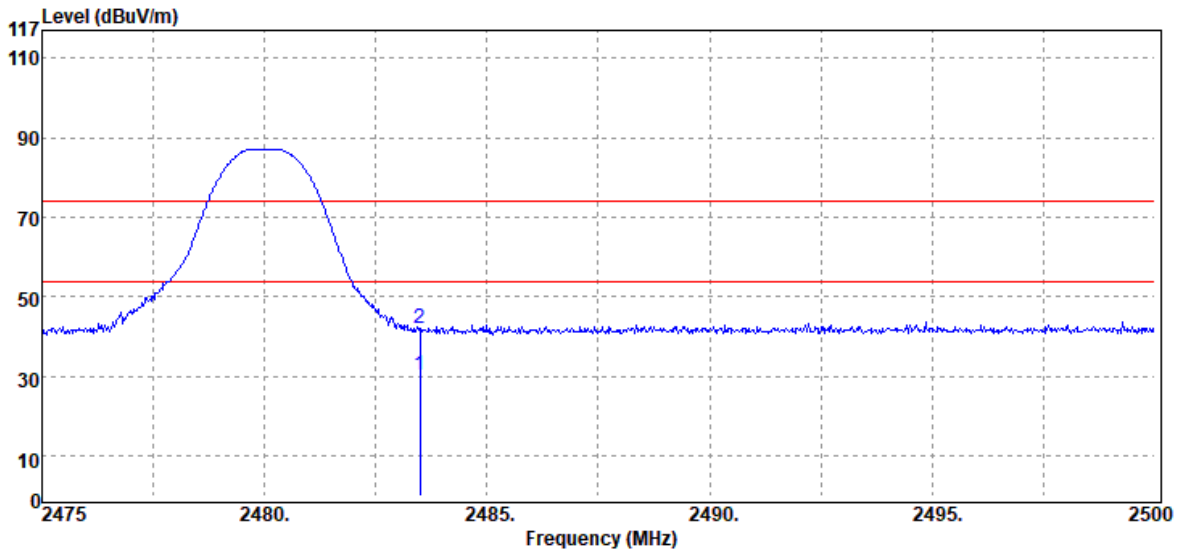
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Project Number : T190430W01
 Operation Band : BLE(1M)
 Fundamental Frequency : 2480 MHz
 Operation Mode : Bandedge CH HIGH
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	33.24	-2.83	30.41	54.00	-23.59
2483.50	Peak	45.04	-2.83	42.21	74.00	-31.79

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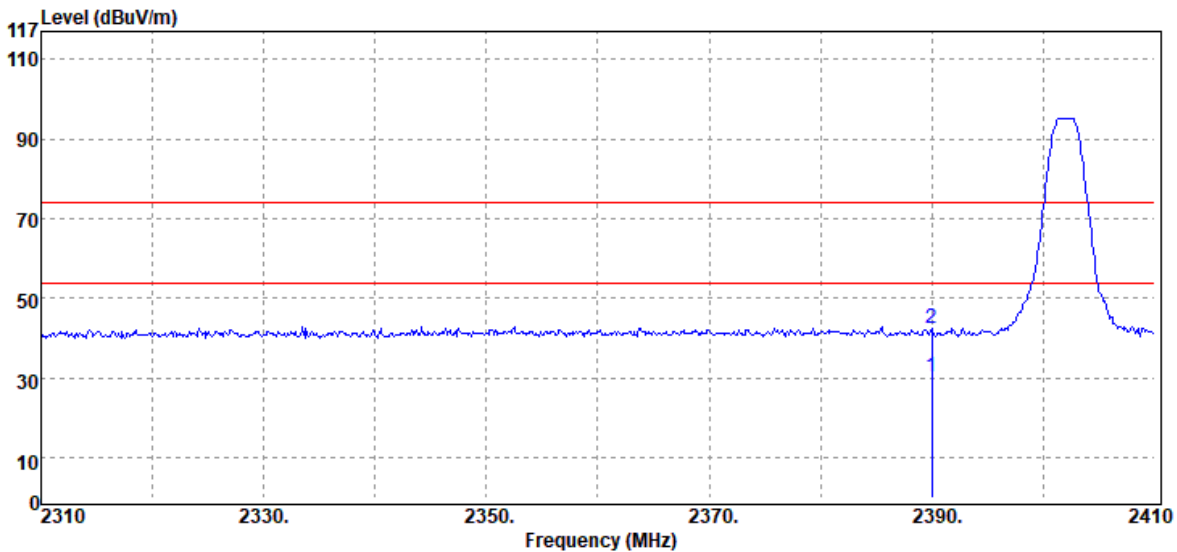
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BLE 2M

Project Number : T190430W01
Operation Band : BLE(2M)
Fundamental Frequency : 2402 MHz
Operation Mode : Bandedge CH LOW
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	33.77	-3.38	30.39	54.00	-23.61
2390.00	Peak	45.88	-3.38	42.50	74.00	-31.50

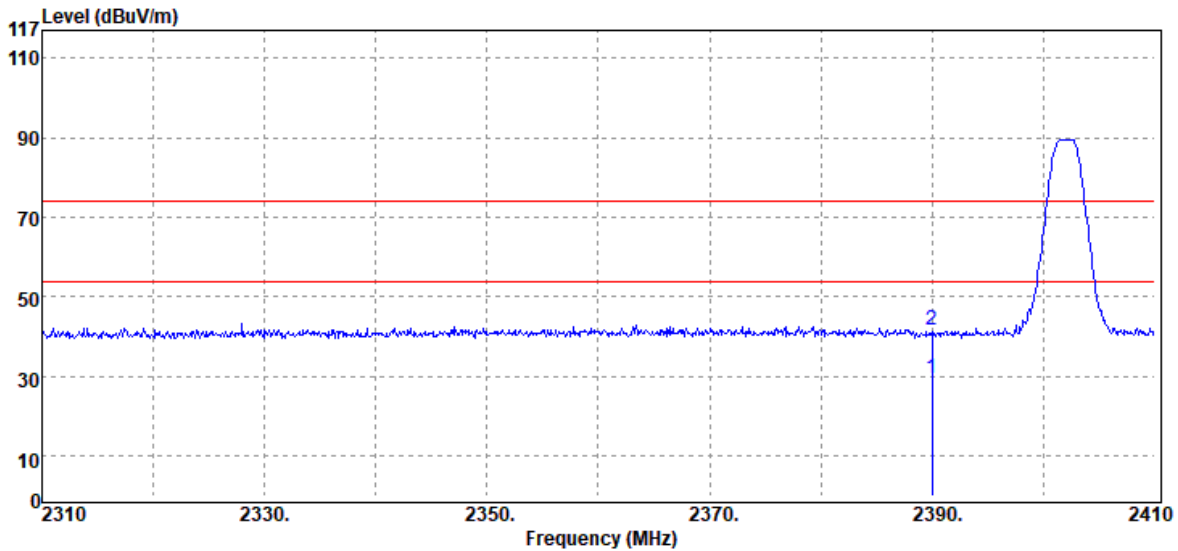
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Project Number : T190430W01
Operation Band : BLE(2M)
Fundamental Frequency : 2402 MHz
Operation Mode : Bandedge CH LOW
EUT Pol. : E2 Plane

Test Date : 2019-05-08
Temp./Humi. : 20 deg_C / 49 RH
Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	33.08	-3.38	29.70	54.00	-24.30
2390.00	Peak	45.11	-3.38	41.73	74.00	-32.27

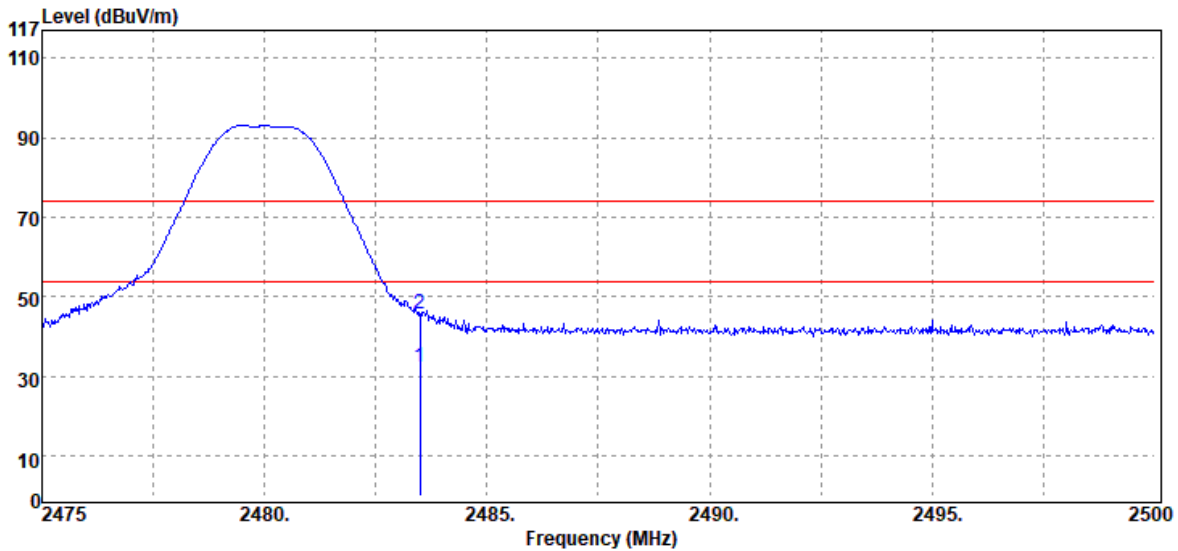
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2480 MHz
 Operation Mode : Bandedge CH HIGH
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	35.28	-2.83	32.45	54.00	-21.55
2483.50	Peak	48.71	-2.83	45.88	74.00	-28.12

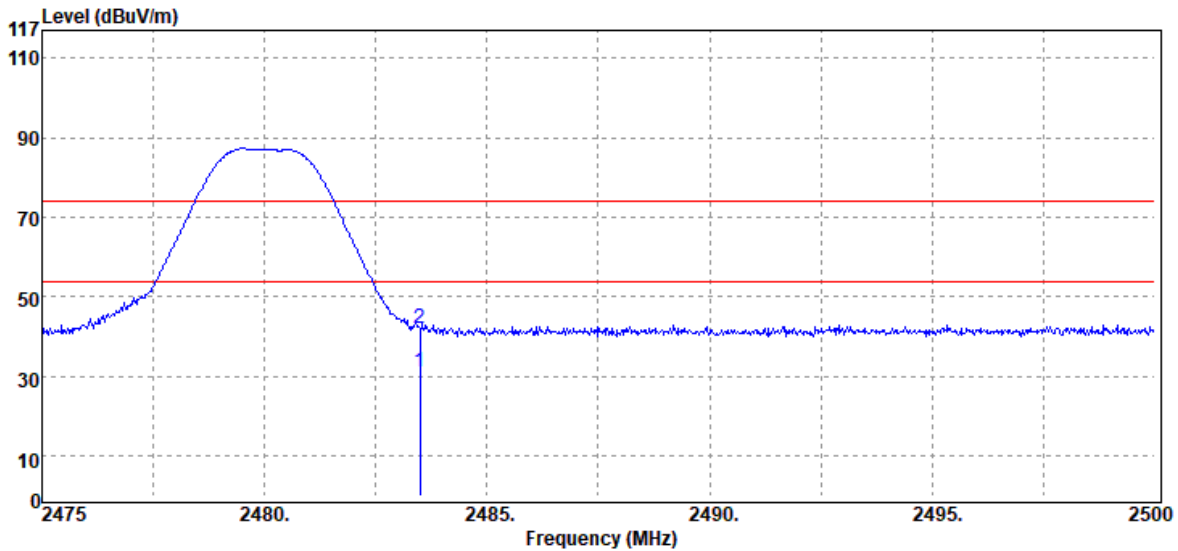
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Project Number : T190430W01
 Operation Band : BLE(2M)
 Fundamental Frequency : 2480 MHz
 Operation Mode : Bandedge CH HIGH
 EUT Pol. : E2 Plane

Test Date : 2019-05-08
 Temp./Humi. : 20 deg_C / 49 RH
 Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	34.20	-2.83	31.37	54.00	-22.63
2483.50	Peak	45.11	-2.83	42.28	74.00	-31.72

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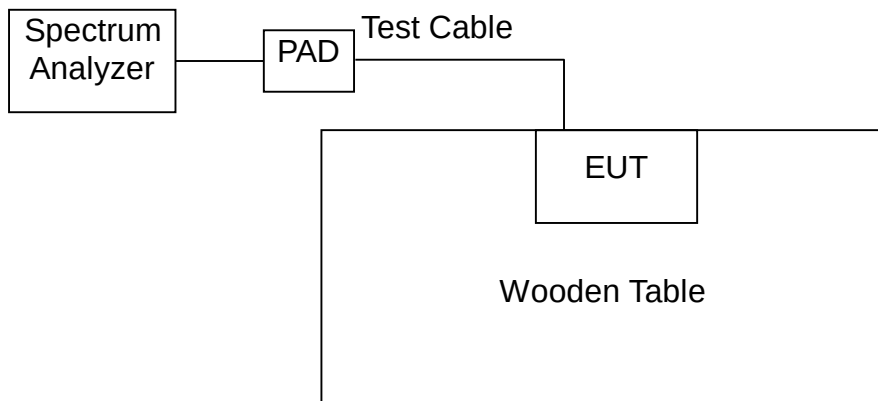
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11 功率密度之量測

11.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1.6(2) (B)規定，對數位調變之展頻系統，在使用頻率範圍之任意 3kHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

11.2 功率密度之測試配置



11.3 功率密度量測結果

BLE 1M

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)
2402	-15.34	8
2442	-15.40	8
2480	-16.14	8

* offset 1.2 dB

BLE 2M

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)
2402	-17.79	8
2442	-17.89	8
2480	-18.15	8

* offset 1.2 dB

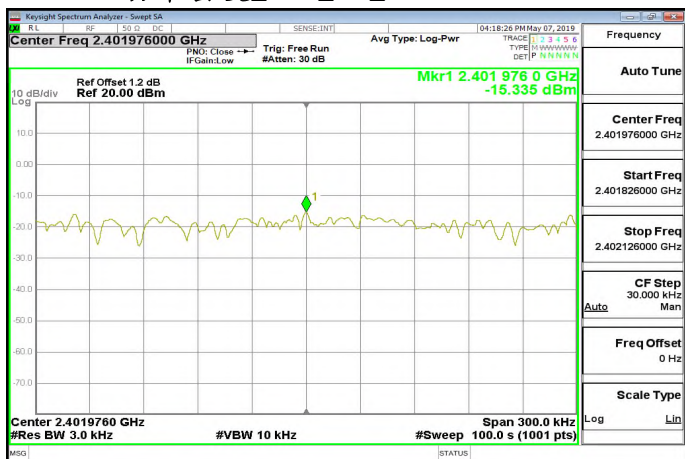
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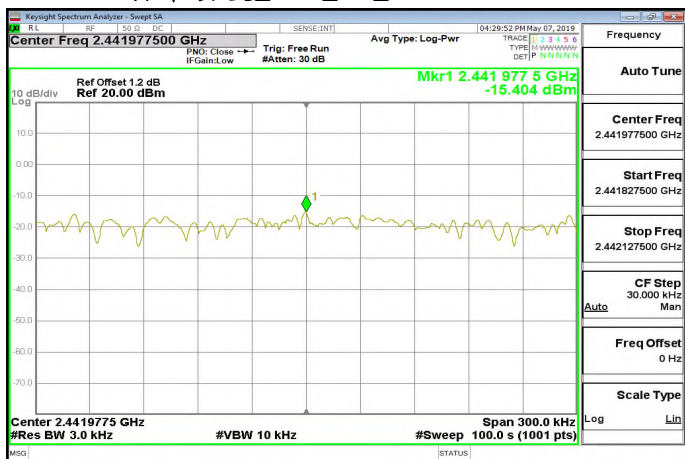
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BLE 1M

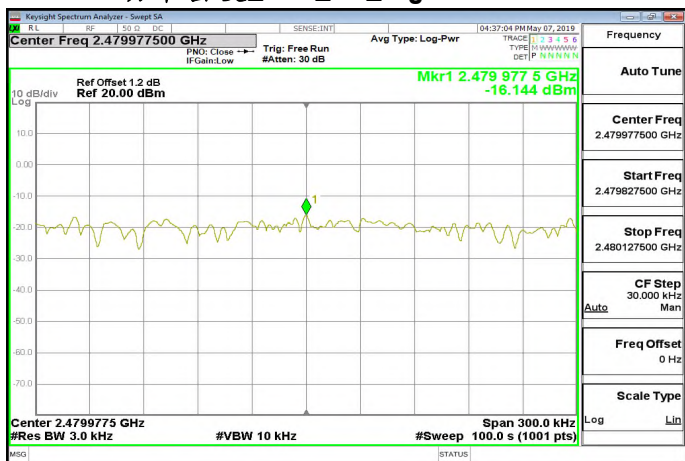
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功率密度_BLE_1M_MidCH20-2442

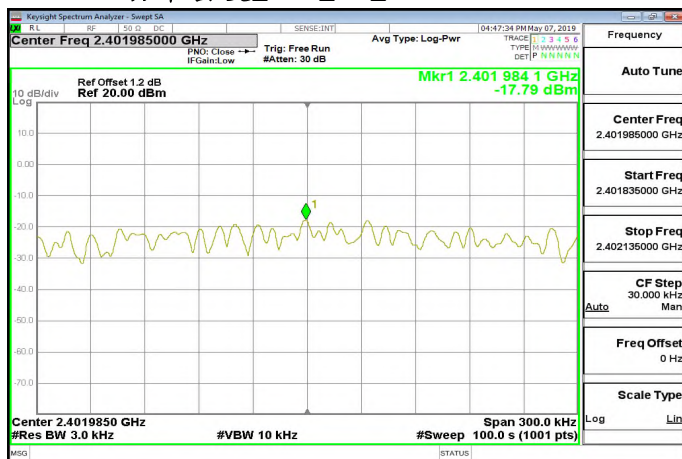


功率密度_BLE_1M_HighCH39-2480

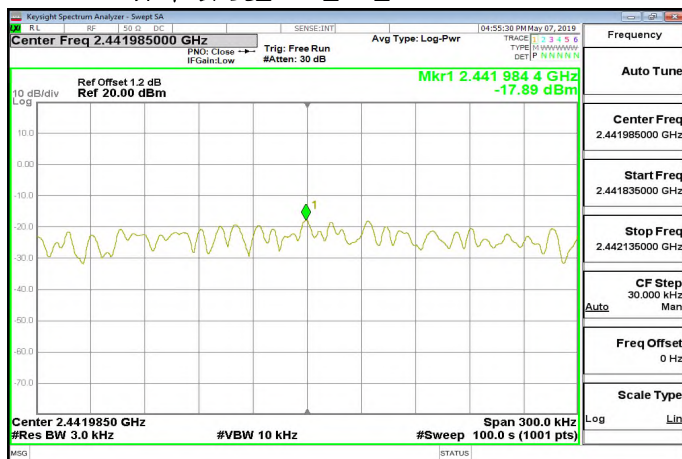


BLE 2M

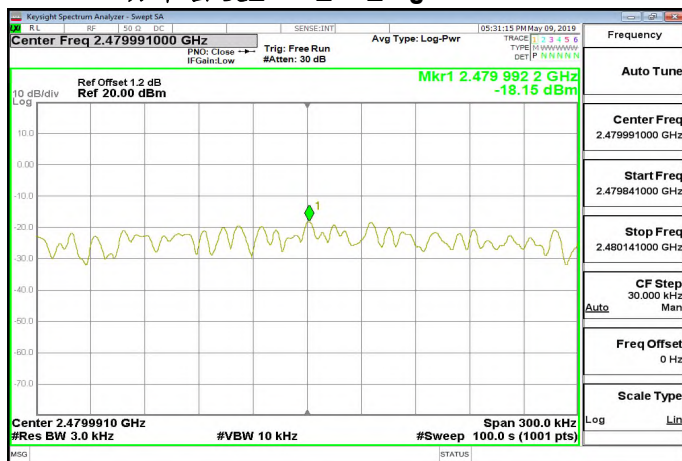
功率密度_BLE_2M_LowCH00-2402



功率密度_BLE_2M_MidCH20-2442



功率密度_BLE_2M_HighCH39-2480



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~ End of Report ~

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