

LP0002 測試報告

for

品名：Wireless Trackball Mouse /無線軌跡球滑鼠

型號：M-RT1DR

of

Applicant：ELECOM CO., LTD.

Address：Fushimimachi 4-1-1, Chuo-ku, Osaka City, Osaka Japan 541-8765

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

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Report No.: W6M22001-19616-LP-02

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測試報告證明

受理日期 : 2020年02月04日
完成日期 : 2020年02月19日
申請者 : ELECOM CO., LTD.
申請者地址 : Fushimimachi 4-1-1, Chuo-ku, Osaka City, Osaka Japan 541-8765
製造廠商 : ELECOM CO., LTD.
廠牌 : ELECOM
品名 : Wireless Trackball Mouse /無線軌跡球滑鼠
型號 : M-RT1DR
引用規範 : 國家通訊傳播委員會低功率射頻電機技術規範LP0002, 修訂日期107年1月。
測試總結如下 :

項次	測試項目	適用規範	測試數據	量測設備	判定結果
1	電源線傳導干擾	低功率射頻電機技術規範2.3節	請參閱5.4節	請參閱5.4節	免測
2	主波發射	低功率射頻電機技術規範3.10.2.2節	請參閱6.4節	請參閱6.4節	符合 請參閱6.4節
3	頻帶外之任何發射	低功率射頻電機技術規範3.10.2.2節	請參閱7.5節	請參閱7.5節	符合 請參閱7.5節
4	頻帶邊緣之量測	低功率射頻電機技術規範3.10.2.2節	請參閱8.4節	請參閱8.4節	符合 請參閱8.4節
5	天線之要求	低功率射頻電機技術規範2.2節	請參閱9.2節	N/A	符合 請參閱9.2節

測試報告聲明：

1. 本測試報告只適用於經本實驗室測試之樣品。
2. 非經本實驗室認可，摘錄本測試報告之部分內容使用無效。

測量單位名稱 : 今慶科技股份有限公司
聯絡地址 : 台北市內湖區瑞光路188巷58號6樓
聯絡電話 : 02-6606-8877

報告簽署人 : 王政崑 量測員 : 楊承勳

簽署日期 : 2020年02月19日 2020年02月19日



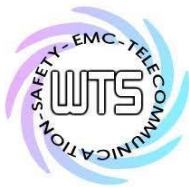
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1.1 產品描述

- a) 產品型態 : Wireless Trackball Mouse /無線軌跡球滑鼠
- b) 商標 : ELECOM
- c) 產品型號 : M-RT1DR
- d) 供應電源 : Battery 3Vd.c. (1.5Vd.c.*2)
- e) 天線型態/增益值 : PCB antenna / Gain: 2.62 dBi
- f) 天線廠牌/型號 : Dongguan Hong Sheng Electronic Corp. / Meadline type antenna8

其對應之Dongle 認證號碼/器材名稱/廠牌/型號為:
CCA116LP5240T7/2.4GHz Wireless Dongle/ELECOM/elecom9

此裝置Wireless Trackball Mouse /無線軌跡球滑鼠，採2.4G GFSK規格設計，
其發射頻率落於2405MHz ~ 2477MHz，GFSK頻率調變，輸出功率為 104.41 dBμV/m。

2.4G GFSK發射器共16個頻道，本測報選擇以下三個頻道進行測試並記錄其結果。

頻道 (Ch)	對應頻率(MHz)
Low	2405
Mid	2442
High	2477

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，修訂日期107年1月。

1.3 實驗室資訊

傳導干擾電壓測試：

台北市內湖區瑞光路188巷58號6樓，今慶科技股份有限公司傳導干擾電壓量測隔離室。

輻射干擾場強測試：

新北市萬里區雙興里麗水 5 號之 1，今慶科技股份有限公司所屬之開放式測試場(OATS)。

3米半波暗室 台北市內湖區安康路228巷21弄35號

實驗室之財團法人全國認證基金會(TAF)認可編號為 1477，LP0002實驗室檢測範圍 9kHz - 40GHz，認證有效期間107 年 2 月 16 日至 110 年 2 月 15 日止。

2.1 規範要求

(1) 傳導之規定

依據國家通訊傳播委員會低功率射頻電機技術規範 2.3節之規定，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～30 百萬赫 (MHz) 之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限制值。測量時應經過50 微亨利 (uH)及50 歐姆(Ω)之電源線阻抗穩定網路(Line Impedance Stabilization Network；LISN)。頻率重疊處，以較低限制值為準。

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

*：隨頻率之對數遞減。

(2) 主波發射之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.2.2節之規定，距3公尺處其電場強度限值如下表，除諧波外，指定頻帶外之發射應比主波低50dB以上或依第2.8節之發射限制，兩者取其較鬆者：

主波頻率 (兆赫)	主波電場強度 (毫伏/公尺)	諧波電場強度 (微伏/公尺)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

(3) 頻帶外之任何發射之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.2.2節之規定，本節之所有發射限制值係以平均值檢測儀量測，且須符合第5.14節之峰值規定。



(4) 頻帶邊緣之要求

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.2.2節之規定，除諧波外，指定頻帶外之發射應比主波低50dB以上或依第2.8節之發射限制，兩者取其較鬆者。

(5) 低功率射頻電機之天線要求

依據國家通訊傳播委員會低功率射頻電機技術規範2.2節之規定，低功率射頻電機之發射機或收發信機所使用之天線，除本規範章節中另有規定外，應為全固定、半固定式或以獨特之耦合(unique coupling)方式連接機體。製造者可設計使用者因損壞而替換之天線，但不得設計或使用原認證以外之天線或可供引接各類電纜之標準天線插座或電氣連接頭，如：BNC、F type、N type、M type、UG type、RCA、SMA、SMB……等及其他各類工業或通訊標準接頭。

(6) 成套銷售之收發信機之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 2.11 節之規定：低功率射頻電機之收、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；收信機之輻射電場強度不得超過第 2.8 節之發射規定，且不得解調第 2.7 節所列之頻率。



2.2 限制使用之頻帶

1. 依據國家通訊傳播委員會低功率射頻電機技術規範2.7節規定，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國家通訊傳播委員會低功率射頻電機技術規範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	



2. 依據國家通訊傳播委員會低功率射頻電機技術規範2.8節規定，除國家通訊傳播委員會低功率射頻電機技術規範各章節另有放寬規定者外，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻率(兆赫)	電場強度(微伏/公尺)	測距 (公尺)
0.009 - 0.490 (含)	2,400/頻率(千赫)	300
0.490 (不含) - 1.705 (含)	24,000/頻率(千赫)	30
1.705 (不含) - 30 (不含)	30	30
30 (含) - 88 (含)	100	3
88 (不含) - 216 (含)	150	3
216 (不含) - 960 (含)	200	3
960 (不含) 以上	500	3

Document Name	Uncertainty
傳導量測不確定度評估結果 Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty : AMN : 1.06 dB Voltage probe : 1.12 dB
輻射量測不確定度評估結果(3M) Estimation Result of Uncertainty of Radiated Emission	Expanded Uncertainty : 0.009-30 MHz : 1.88 dB 30-1000 MHz : 2.79 dB 1-18 GHz : 2.36 dB 18-40 GHz : 1.55 dB
輻射量測不確定度評估結果(10M) Estimation Result of Uncertainty of Radiated Emission	Expanded Uncertainty : 0.009-30MHz : 2.15 dB 30-1000 MHz : 3.17 dB
頻帶邊緣量測不確定度評估結果 Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 1.01 dBc

決定規則為: 量測不確定度不納入考量。



3 測試條件說明

3.1 受測物操作說明

在本報告所有針對2.4G GFSK測試項目之執行進行測試，而測試使用之測試輔助軟體由申請者提供。

設定方式：

測試方式由客戶提供，同時按住R鍵+中鍵+PLAY鍵後接上電池開機，即可持續發射開始測試。

POWER為硬體預設

樣品使用電池供電，無須進行電源傳導測試

3.2 受測系統說明

3.2.1 受測系統之相關設備

輻射電場測試

項目	設備名稱	製造商	型號	檢磁號碼	序號
1	* Wireless Trackball Mouse / 無線軌跡球滑鼠	ELECOM CO., LTD.	M-RT1DR	T33407	N/A

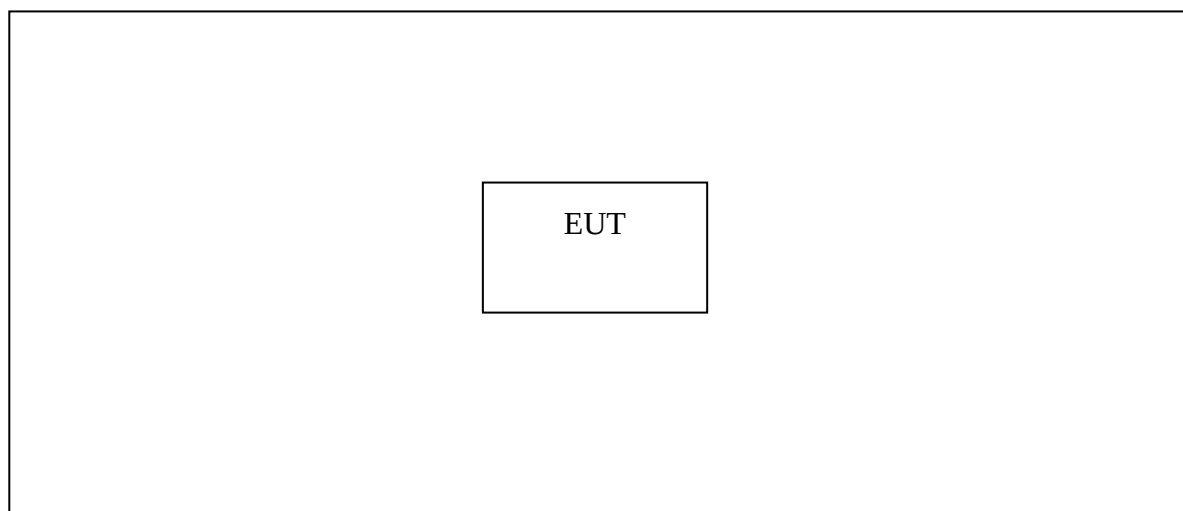
*為欲申請之受測物。

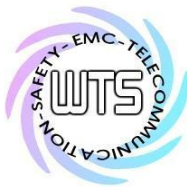
3.2.2 受測系統之相關纜線

無相關測試纜線。

3.3 受測系統連接圖

輻射電場測試系統組成示意圖

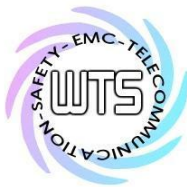




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4 測試儀器設備

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2019/6/4	2020/6/3
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2019/11/1	2020/10/31
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2019/9/24	2020/9/23
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2019/7/23	2020/7/22
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2019/10/3	2020/10/2
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2019/7/18	2020/7/17
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2019/6/4	2020/6/3
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2019/5/29	2020/5/28
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2019/7/25	2020/7/24
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2019/5/3	2020/5/2
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2019/7/22	2020/7/21
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2019/4/2	2020/4/1
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2020/1/23	2021/1/22
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2019/4/23	2020/4/22
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2019/5/13	2020/5/12
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use NCR	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2019/3/5	2020/3/4
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2020/2/20	2021/2/19
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2019/5/14	2020/5/13
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2019/5/16	2020/5/15
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2019/3/29	2020/3/28
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2019/9/23	2020/9/22
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2020/1/23	2021/1/22
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2020/1/23	2021/1/22
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2019/9/18	2020/9/17



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ETSTW-RE 096	SIGNAL GENERATOR	SMIQ 03B	102274	R&S	2019/6/14	2020/6/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2020/1/13	2021/1/12
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function Test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2019/6/3	2020/6/2
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2020/2/20	2021/2/19
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2019/5/16	2020/5/15
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2019/4/2	2020/4/1
ETSTW-RS 009	SIGNAL GENERATOR	8648C	3642U01656	HP	2020/1/23	2021/1/22
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2019/3/5	2020/3/4
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2019/3/26	2020/3/25
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2019/10/25	2020/10/24
ETSTW-GSM 005	Dynamic Signal Acquisition USB 2.0 Module	USB-2405	0050	ADLINK	Function Test	
ETSTW-GSM 006	ICPR Accelerometer	352C65	LW216621	PCB PIEZOTRONICS	2019/9/24	2020/9/23
ETSTW-GSM 007	Free-Field Array Microphone	40PH	222391	G.R.A.S.	2019/10/1	2020/9/30
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2019/9/12	2020/9/11
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2019/3/5	2020/3/4
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2019/8/9	2020/8/8
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104 (S_Cable 7)	238093	HUBER+SUHNER	2019/5/14	2020/5/13
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 (S_Cable 11)	209953	HUBER+SUHNER	2019/5/14	2020/5/13
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2019/7/2	2020/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2020/2/20	2021/2/19
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2019/5/14	2020/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2020/2/20	2021/2/19
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104	316739	HUBER+SUHNER	2019/5/14	2020/5/13
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2019/9/24	2020/9/23
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2019/5/16	2020/5/15



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ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2019/5/16	2020/5/15
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 005	GSM Fading Level Correction	GSMFadLevCor	None	R&S	Version 1.66	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	
WTS-SF 060	振動試驗機/ Vibration Tester	VS-100V	0M01	VS	2019/4/29	2020/4/28
ETSTW-TH 001	Thermohygrometer	608-H1	45204316	Testo	2019/9/9	2020/9/8
ETSTW-TH 002	Thermohygrometer	608-H1	45204317	Testo	2019/9/9	2020/9/8

5 電源線傳導干擾之量測

5.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範2.3節之規定

5.2 測試方法

依據量測場地配置圖連接受測物之電源線至LISN，週邊或支援裝置之電源線連接至另一LISN。所有LISN之電力由同一個交流電源供應。

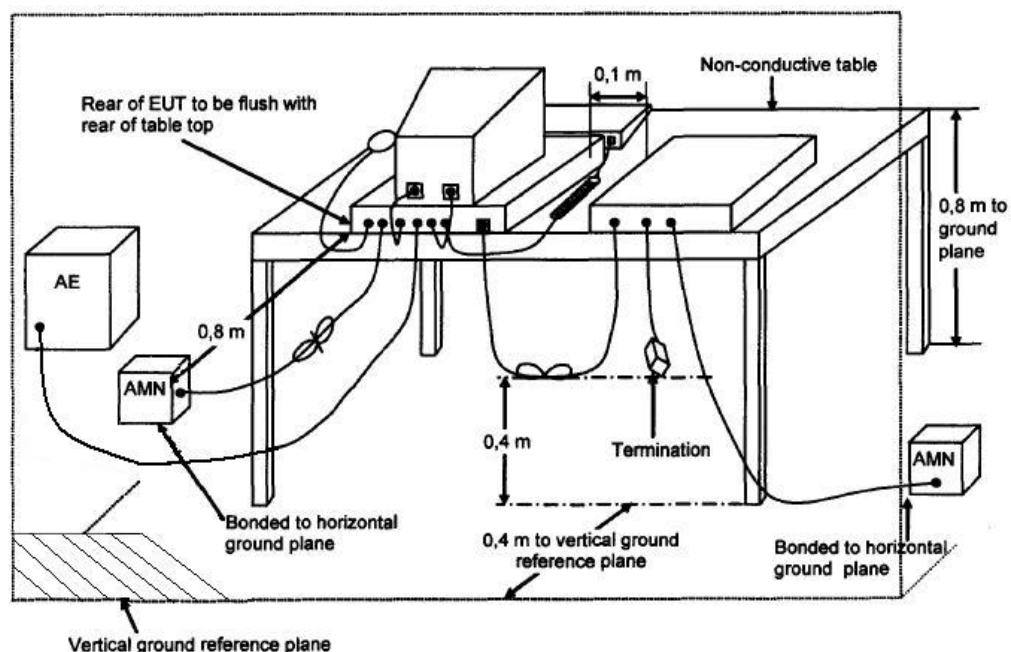
若受測物之電源線長度足以束綁，該束綁之固定須以膠帶或其他不影響測試之非傳導性材質。非受測物之電源線無須束綁，由桌子的後緣垂下沿傳導測試場地的地面接至 LISN。落地型之附件設備的電源線可以任何便利的型態置於接地平面上或絕緣物上。

週邊設備之電源線不可垂過LISN的上端。使用長度合宜之同軸電纜將測量儀器連接至供應電流至受測物之LISN的RF埠，其他未連接之RF埠以50Ω電阻終結。

使用頻譜分析儀或其他可提供頻譜顯示之儀器以進行交流電力線傳導初步測試，以決定須作最終測試的頻率點。再使用下表指定之檢波器功能針對初測所得的頻率點進行單點詳測，以決定最終的測試結果。

頻率 (kHz)	儀器型態	功能	RBW(6dB)
9 - 150	RF Test Receiver	QP/AVE	200 Hz
150 - 30000	RF Test Receiver	QP/AVE	10 kHz

5.3 測試配置





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5.4 傳導干擾之量測結果

Model:

M-RT1DR

Date:

--

Mode:

--

Temperature:

--

°C

Engineer:

--

Polarization:

--

Humidity:

--

%

Frequency	Reading		Factor	Result		Limit		Margin
(MHz)	QP	Ave.	(dB)	QP	Ave.	QP	Ave.	(dB)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: --								
Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

備註：

1. 傳導干擾電壓量測之儀器設備: ETSTW-CE 001、ETSTW-CE 016、ETSTW-RE 045。
2. Up Line: QP Limit Line, Down Line: Ave Limit Line。
3. 因此產品使用電池供電，故此項免測。

5.5 干擾值之計算

電源傳導干擾電壓之計算公式如下：

結果值 = 儀器讀值 + 校正因子

其中校正因子為：

饋線損失 + 電源阻抗模擬網路損失

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6 主波發射之量測

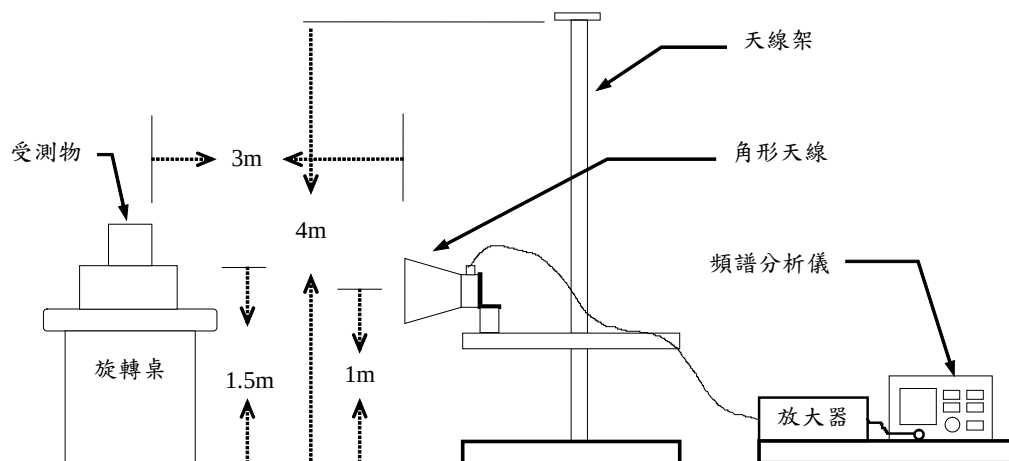
6.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.2.2節之規定

6.2 測試方法

1. 頻譜分析儀設定如下:
2. Peak detector時，解析頻寬為1MHz，視訊頻寬不小於解析頻寬；Average detector時，解析頻寬為1MHz，視訊頻寬10Hz。
3. 掃描時間為自動，檢波功能為峰值，訊號軌跡為最大保留(Max Hold)。
4. 將標記設定於任何欲紀錄之波峰上，所顯示之位準值必須符合指定之限制值。
5. 上述之測試驟應注意外接之衰減與纜線損失及天線參數。

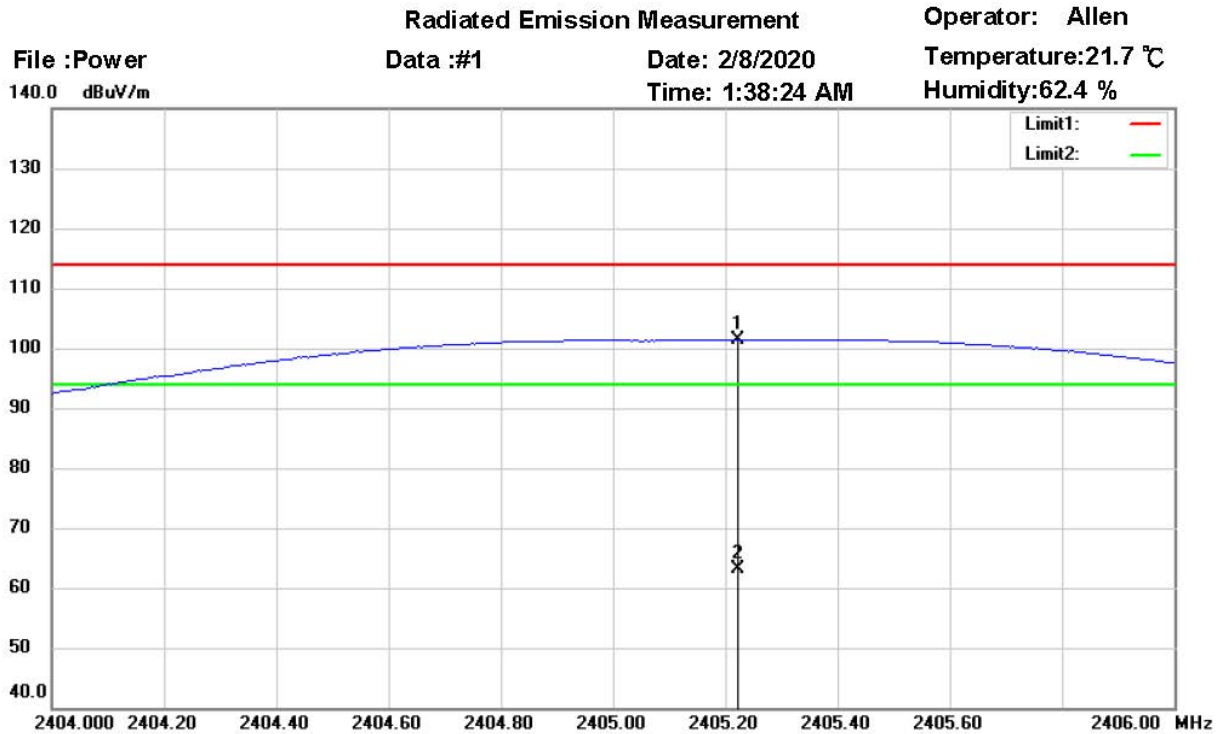
6.3 主波發射之測試配置





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6.4 主波發射之量測結果



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Power_PK

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

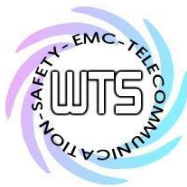
Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2405.222	64.20	peak	37.15	101.35	114.00	150	100	-12.65	
	2405.222	25.99	AVG	37.15	63.14	94.00	150	100	-30.86	



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Radiated Emission Measurement

Operator: Allen

File :Power

Data :#2

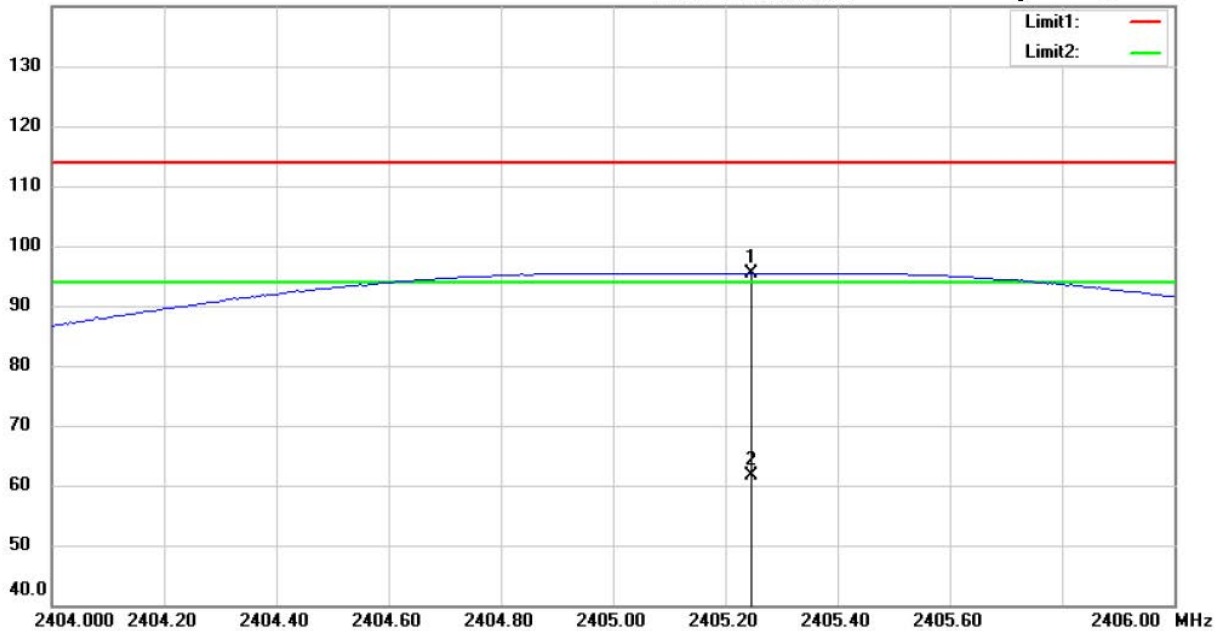
Date: 2/8/2020

Temperature:21.7 °C

140.0 dBuV/m

Time: 1:49:55 AM

Humidity:62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Power_PK

Polarization: **Vertical**

EUT : W6M22001-19616

Power : 3 Vd.c.

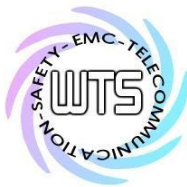
M/N:

Distance: 3m

Test Mode : TX 2405MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2405.246	58.34	peak	37.15	95.49	114.00	150	200	-18.51	
	2405.246	24.48	AVG	37.15	61.63	94.00	150	200	-32.37	



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Radiated Emission Measurement

Operator: Allen

File :Power

Data :#1

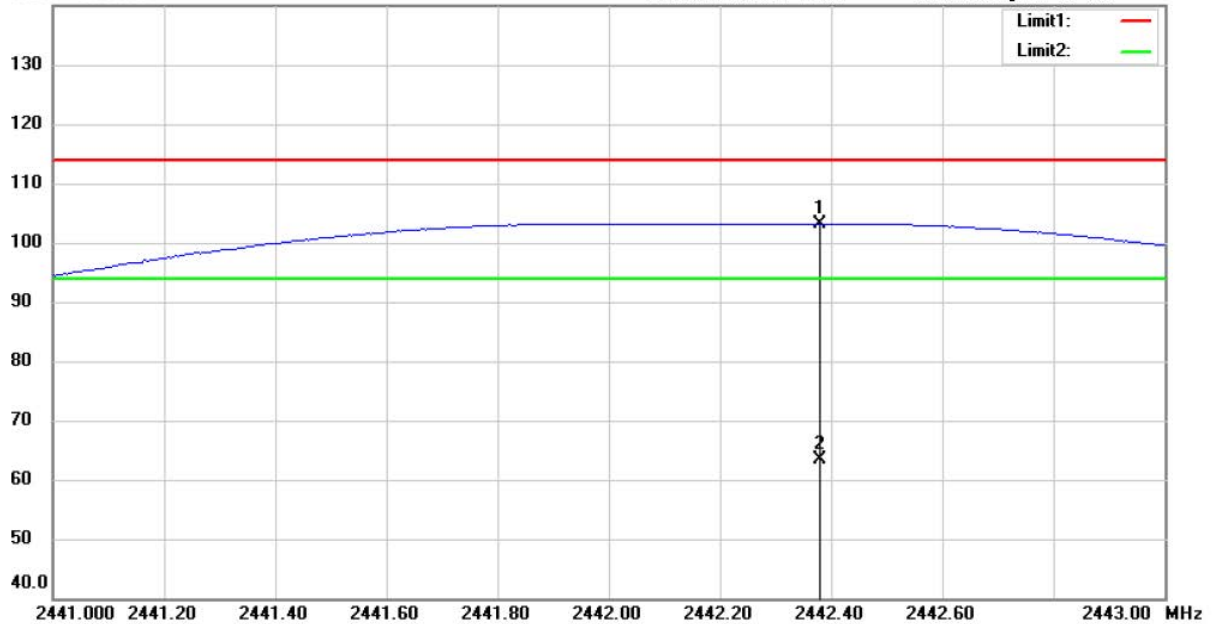
Date: 2/8/2020

Temperature:21.7 °C

140.0 dBuV/m

Time: 2:34:12 AM

Humidity:62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Power_PK

Polarization: *Horizontal*

EUT : W6M22001-19616

Power : 3 Vd.c.

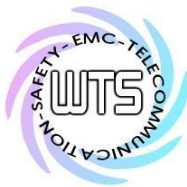
M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2442.375	65.81	peak	37.43	103.24	114.00	150	100	-10.76	
	2442.375	25.96	AVG	37.43	63.39	94.00	150	100	-30.61	



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Radiated Emission Measurement

Operator: Allen

File :Power

Data :#2

Date: 2/8/2020

Temperature:21.7 °C

140.0 dBuV/m

Time: 2:40:29 AM

Humidity:62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Power_PK

Polarization: **Vertical**

EUT : W6M22001-19616

Power : 3 Vd.c.

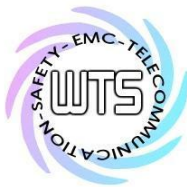
M/N:

Distance: 3m

Test Mode : TX 2442MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2442.407	59.80	peak	37.43	97.23	114.00	150	200	-16.77	
	2442.407	24.37	AVG	37.43	61.80	94.00	150	200	-32.20	



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Radiated Emission Measurement

Operator: Allen

File :Power

Data :#1

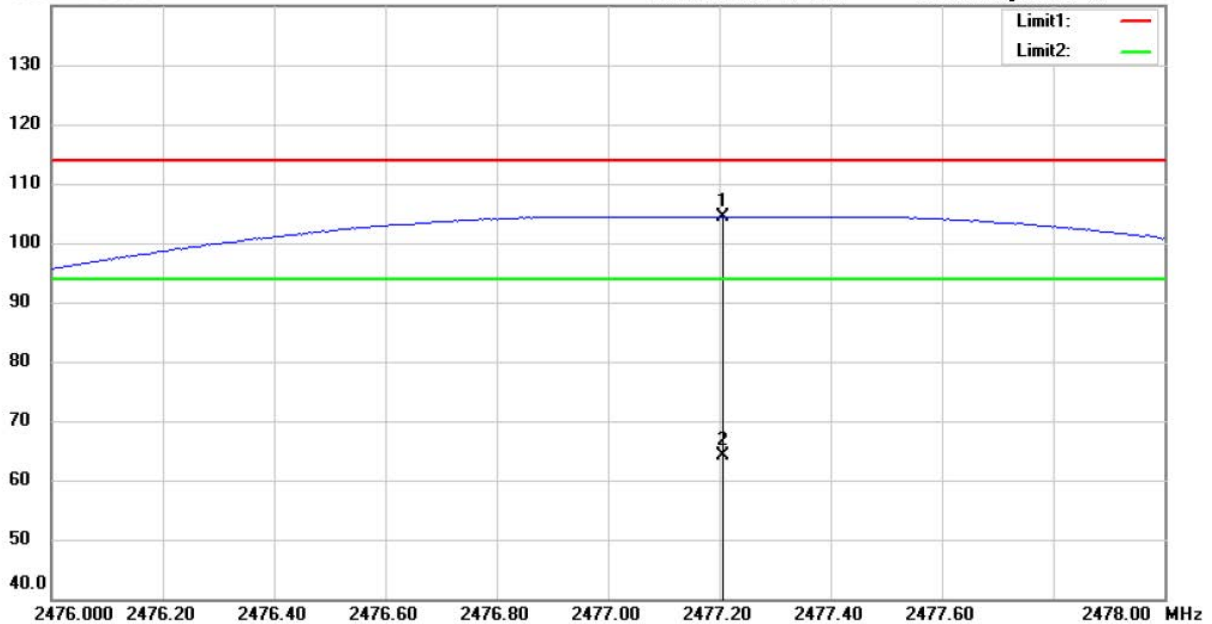
Date: 2/8/2020

Temperature:21.7 °C

140.0 dBuV/m

Time: 3:03:43 AM

Humidity:62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Power_PK

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

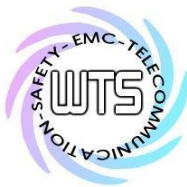
Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2477.206	66.71	peak	37.70	104.41	114.00	150	90	-9.59	
	2477.206	26.50	AVG	37.70	64.20	94.00	150	90	-29.80	



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Radiated Emission Measurement

Operator: Allen

File :Power

Data :#2

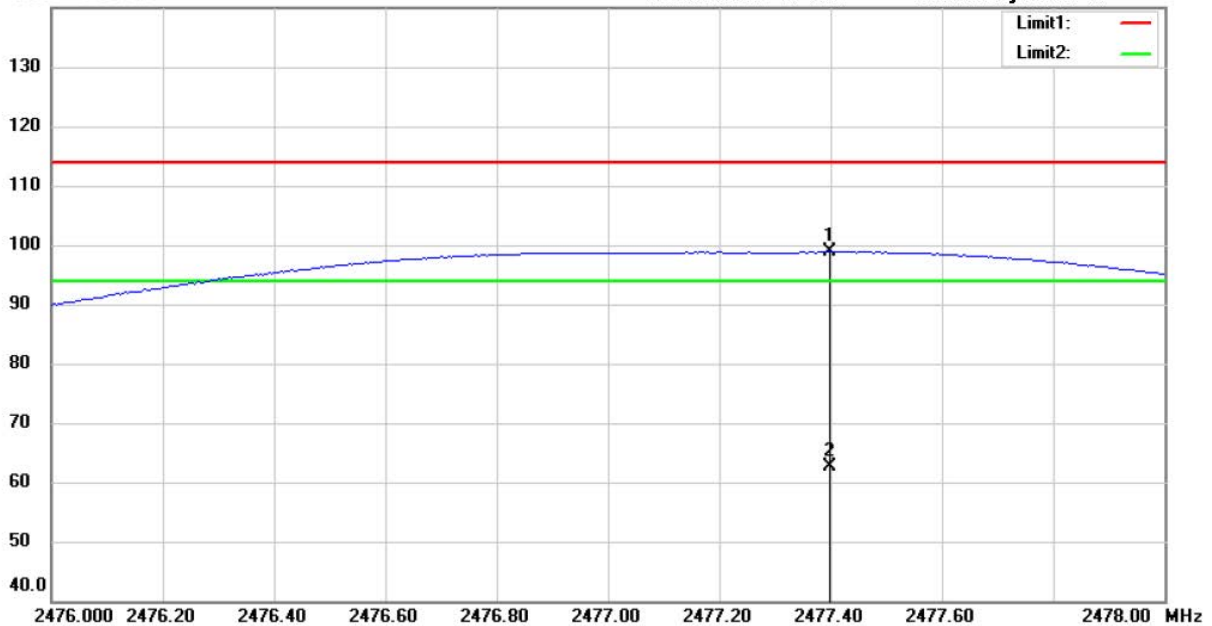
Date: 2/8/2020

Temperature:21.7 °C

140.0 dBuV/m

Time: 3:16:13 AM

Humidity:62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Power_PK

Polarization: **Vertical**

EUT : W6M22001-19616

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2477MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2477.395	61.16	peak	37.70	98.86	114.00	150	210	-15.14	
	2477.395	25.03	AVG	37.70	62.73	94.00	150	210	-31.27	

備註：

- 主波發射量測之儀器設備: ETSTW-RE 003、ETSTW-RE 004、ETSTW-RE 055、ETSTW-RE 030、ETSTW-RE 044
- Up Line: PK Limit Line, Down Line: Ave Limit Line。

6.5 主波發射之計算方式

功率場強之計算公式如下：

結果值 = 讀值 + 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)



7.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.2.2節之規定

7.2 測試方法

(一)頻譜分析儀設定如下：

1. 頻率掃描範圍足以檢測頻帶內的發射波峰位準以及由受測物產生之最低頻率到第10次諧波的所有混附發射，通常需要分幾段以涵蓋全部頻率範圍。
2. 量測頻率低於1GHz，解析頻寬為100kHz，視訊頻寬不小於解析頻寬。量測頻率高於1GHz，Peak detector時，解析頻寬為1MHz，視訊頻寬1MHz；Average detector時，解析頻寬為1MHz，視訊頻寬10Hz。
3. 掃描時間為自動，檢波功能為峰值，訊號軌跡為最大保留(Max Hold)。
4. 將標記設定於任何欲紀錄之波峰上，所顯示之位準值必須符合指定之限制值。
5. 啟動標記差值之功能，利用標記至波峰功能 (Marker to Peak) 功能以標記頻帶內發射之波峰，所顯示之標記差值必須符合指定之限制值。

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7.3 輻射之測試配置

圖 1：量測頻率低於 1GHz 之測試配置

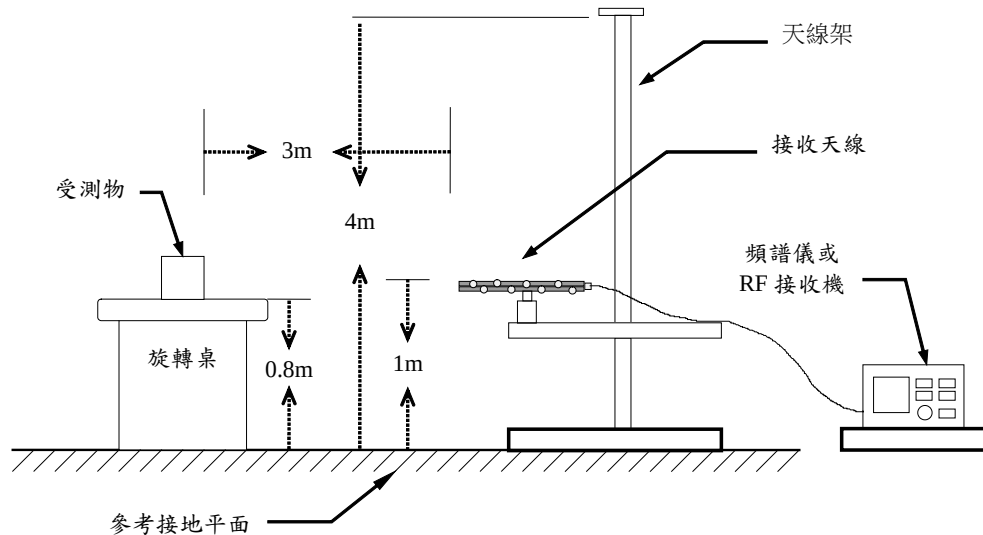
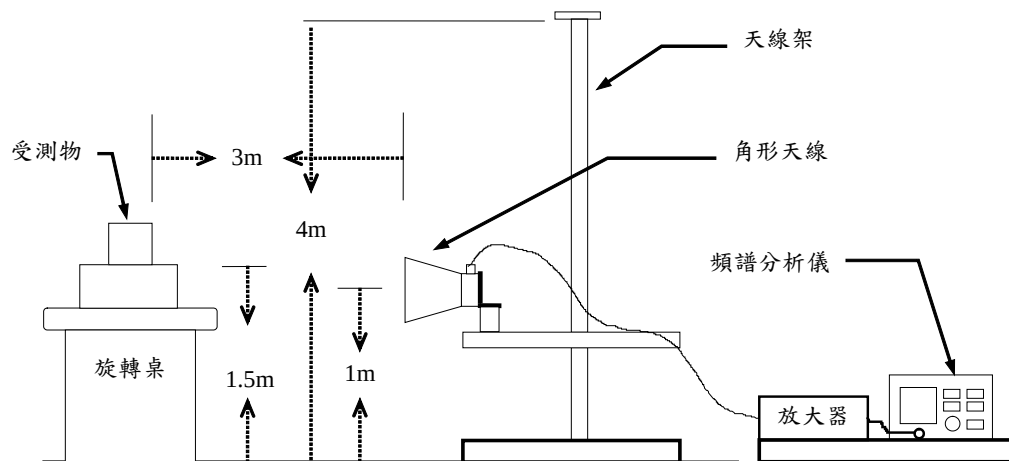


圖 2：量測頻率高於 1GHz 之測試配置



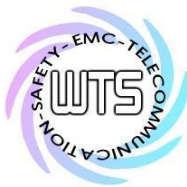
7.4 場強度之計算

場強之計算公式如下：

結果值 = 讀值 + 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）



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7.5 場強輻射之量測結果

Model: M-RT1DR

Date: --

Mode: --

Temperature: -- °C Engineer: --

Polarization: Horizontal

Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

備註：

1. 若以峰值檢測功能測量之值符合平均值限制值（即餘裕度乃量測之準峰值相對於平均值限制值），則可視同以平均值功能測量之值亦符合平均值限制值，在此以標記“---”表之。
2. 本報告之測試數據，皆經初測評估，以鑑定最差之測試模式狀態，繪圖資料請參考附件。
3. 場強輻射量測儀器設備: ETSTW-RE 003、ETSTW-RE 004、ETSTW-RE 055、ETSTW-RE 062、ETSTW-RE 142、ETSTW-RE 147、ETSTW-RE030、ETSTW-RE 088、ETSTW-RE 018

8.1 適用標準

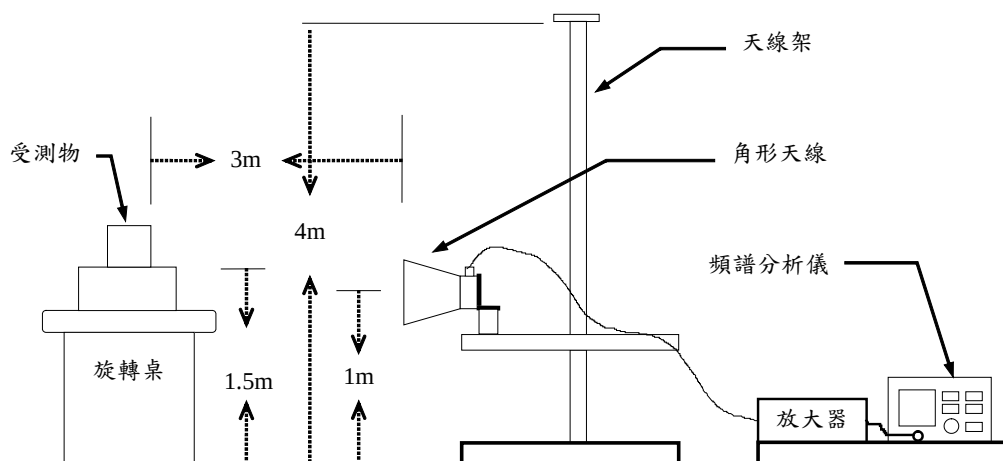
依據國家通訊傳播委員會低功率射頻電機技術規範3.10.2.2節及2.7、2.8節之規定。

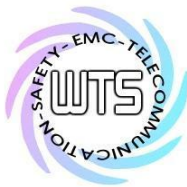
8.2 測試方法

頻譜分析儀設定如下:

1. 頻率掃描範圍足以涵蓋操作在最靠近頻帶邊之頻道的發射波峰位準以及任何落於許可頻帶外之調變產物。
2. 解析頻寬大於1%頻率掃描範圍寬度，視訊頻寬不小於解析頻寬。
3. 掃描時間為自動，檢波功能為峰值，訊號軌跡為最大保留 (Max Hold)。
4. 將標記設定於在頻帶邊緣上的發射，或將標記設定於最大之頻帶外調變產物上若其位準大於頻帶邊上的發射。
5. 啟動標記差值之功能，利用標記至波峰功能 (Marker to Peak) 功能以標記頻帶內發射之波峰，所顯示之標記差值必須符合指定之限制值。

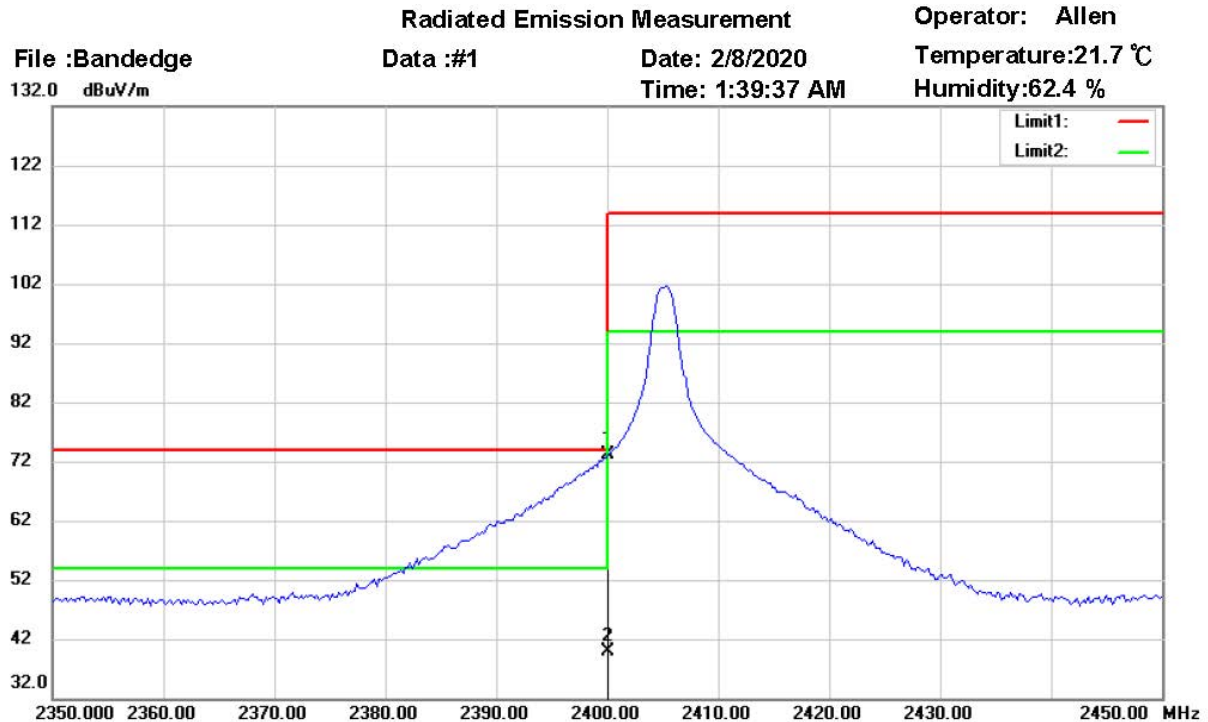
8.3 頻帶邊緣之測試配置





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8.4 頻帶邊緣之量測結果



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Bandedge_PK

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2400.000	36.04	peak	37.11	73.15	74.00	150	100	-0.85	
	2400.000	2.76	AVG	37.11	39.87	54.00	150	100	-14.13	



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Radiated Emission Measurement

Operator: Allen

File :Bandedge

Data :#2

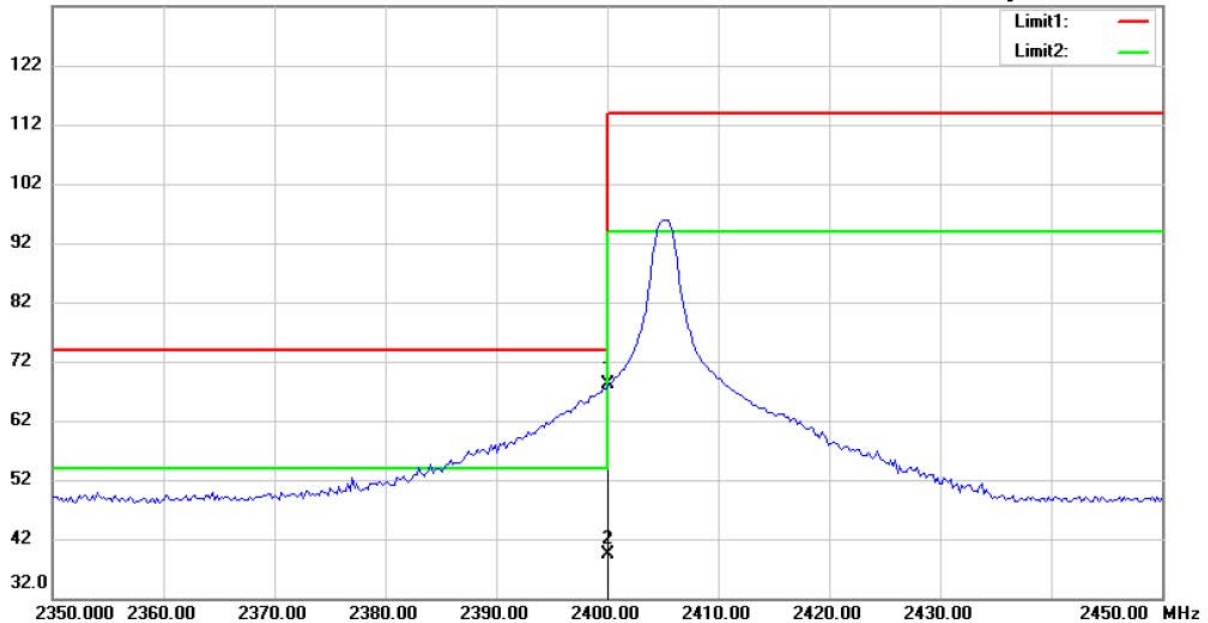
Date: 2/8/2020

Temperature:21.7 °C

132.0 dBuV/m

Time: 1:50:53 AM

Humidity:62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Bandedge_PK

Polarization: *Vertical*

EUT : W6M22001-19616

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2405MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2400.000	30.98	peak	37.11	68.09	74.00	150	200	-5.91	
	2400.000	2.30	AVG	37.11	39.41	54.00	150	200	-14.59	



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Radiated Emission Measurement

Operator: Allen

File :Bandedge

Data :#1

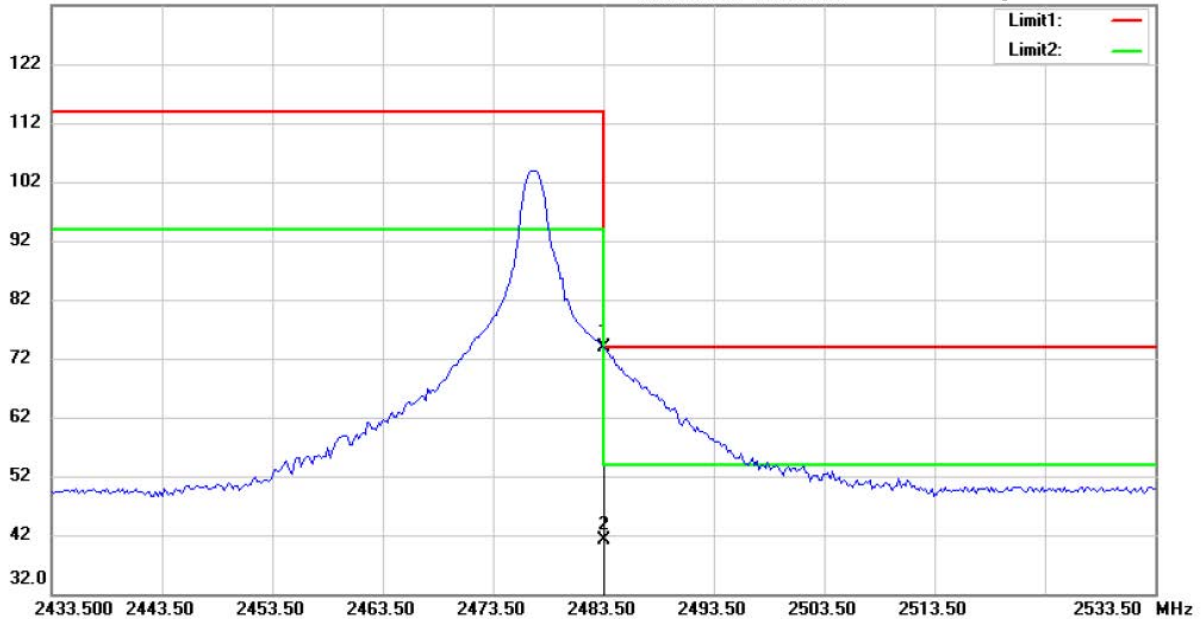
Date: 2/8/2020

Temperature:21.7 °C

132.0 dBuV/m

Time: 3:04:41 AM

Humidity:62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Bandedge_PK

Polarization: *Horizontal*

EUT : W6M22001-19616

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2477MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2483.500	36.08	peak	37.74	73.82	74.00	150	90	-0.18	
	2483.500	3.27	AVG	37.74	41.01	54.00	150	90	-12.99	



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Radiated Emission Measurement

Operator: Allen

File : Bandedge

Data : #2

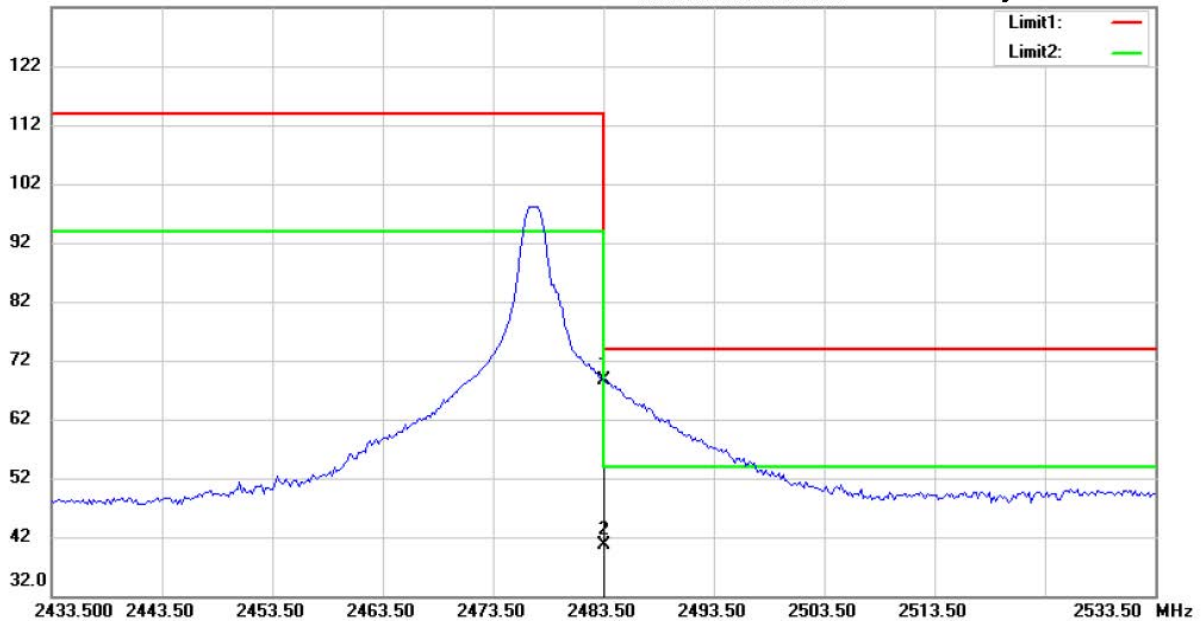
Date: 2/8/2020

Temperature: 21.7 °C

132.0 dBuV/m

Time: 3:17:24 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10.2 (2.4GHz) Bandedge_PK

Polarization: **Vertical**

EUT : W6M22001-19616

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2477MHz

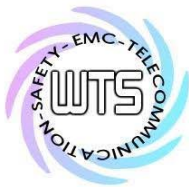
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2483.500	30.84	peak	37.74	68.58	74.00	150	210	-5.42	
	2483.500	2.83	AVG	37.74	40.57	54.00	150	210	-13.43	

備註：頻帶邊緣量測儀器設備: ETSTW-RE 003、ETSTW-RE 004、ETSTW-RE 055、ETSTW-RE030。

8.5 頻帶邊緣之限制值規定

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10 節之規定，除諧波外，指定頻帶外之發射應比主波低 50dB 以上或依第 2.8 節之發射限制，兩者取其較鬆者。



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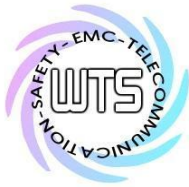
9 低功率射頻電機之天線要求

9.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範2.2節之規定，低功率射頻電機之發射機或收發信機所使用之天線，除本規範章節中另有規定外，應為全固定、半固定式或以獨特之耦合(unique coupling)方式連接機體。製造者可設計使用者因損壞而替換之天線，但不得設計或使用原認證以外之天線或可供引接各類電纜之標準天線插座或電氣連接頭，如：BNC、F type、N type、M type、UG type、RCA、SMA、SMB……等及其他各類工業或通訊標準接頭。

9.2 驗證結果

由於此產品天線廠牌為 Dongguan Hong Sheng Electronic Corp.；型號: Meadline type antenna8，天線型態為PCB antenna，Gain值為 2.62 dBi，因此判定符合國家通訊傳播委員會低功率射頻電機技術規範2.2節之規定。



附件

一、受測物照片及實際量測場地配置照

1. 外部照
2. 內部照
3. 場地照

二、量測掃描圖

輻射電場掃描圖



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場地照

輻射電場

1GHz 以下

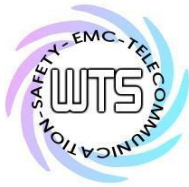




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1GHz 以上





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輻射電場掃描圖



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
 Tel: +886-2-6606-8877
 Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 1_TX 2405MHz_below

Data : #1

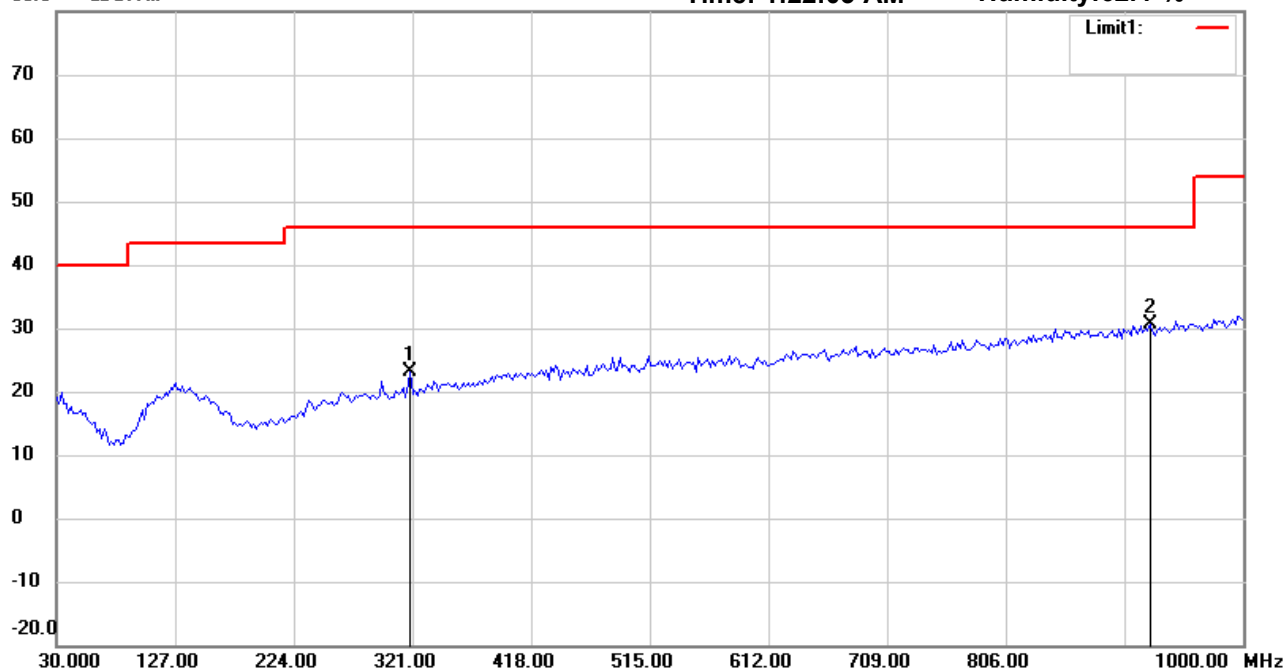
Date: 2/8/2020

Temperature: 21.7 °C

80.0 dBuV/m

Time: 1:22:03 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

Polarization: *Horizontal*

EUT : W6M22001-19616

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2405MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	319.6392	28.86	peak	-5.84	23.02	46.00	100	60	-22.98	
*	924.1884	26.95	peak	3.70	30.65	46.00	100	235	-15.35	



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
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Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 1_TX 2405MHz_below

Data : #2

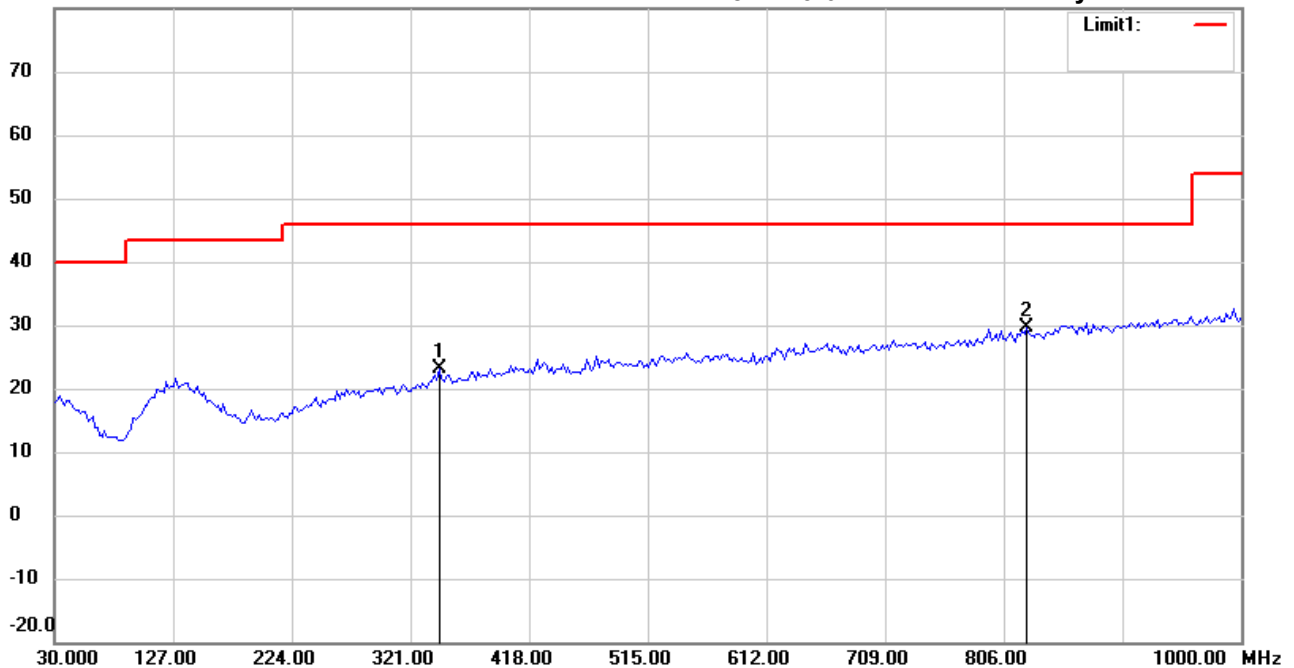
Date: 2/8/2020

Temperature: 21.7 °C

80.0 dBuV/m

Time: 1:23:04 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	344.9098	28.29	peak	-5.19	23.10	46.00	100	110	-22.90	
*	825.0501	27.63	peak	1.92	29.55	46.00	100	360	-16.45	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

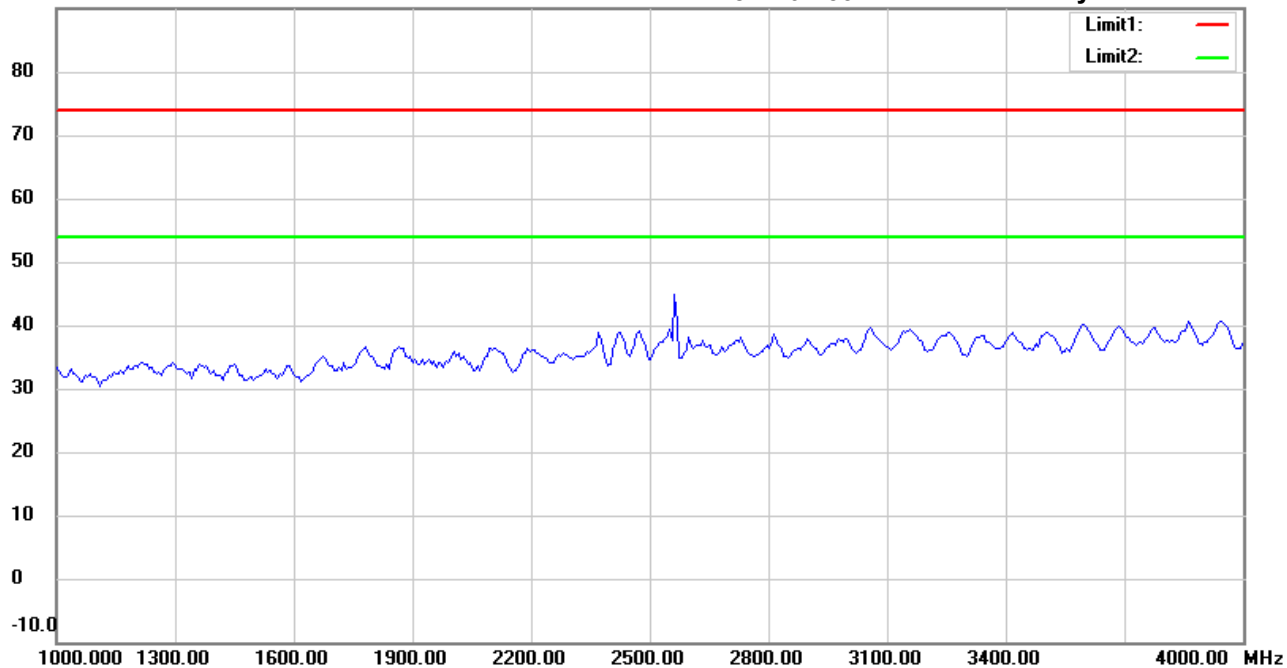
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:02:53 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

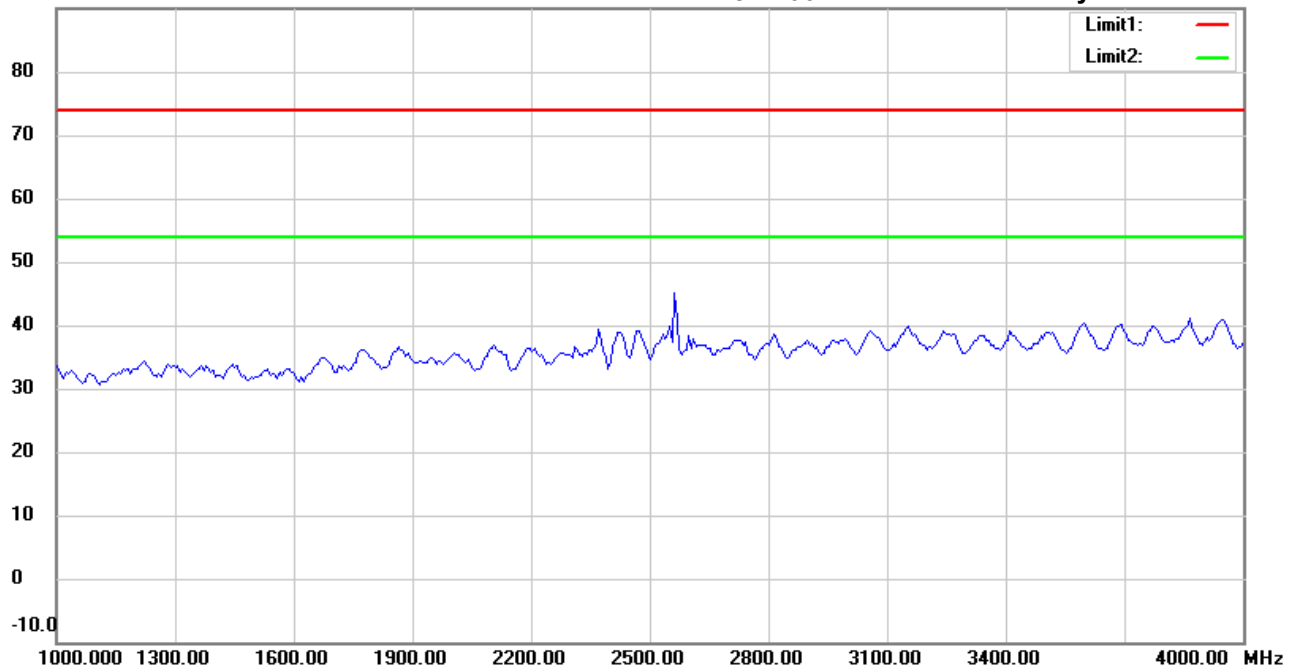
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:06:14 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

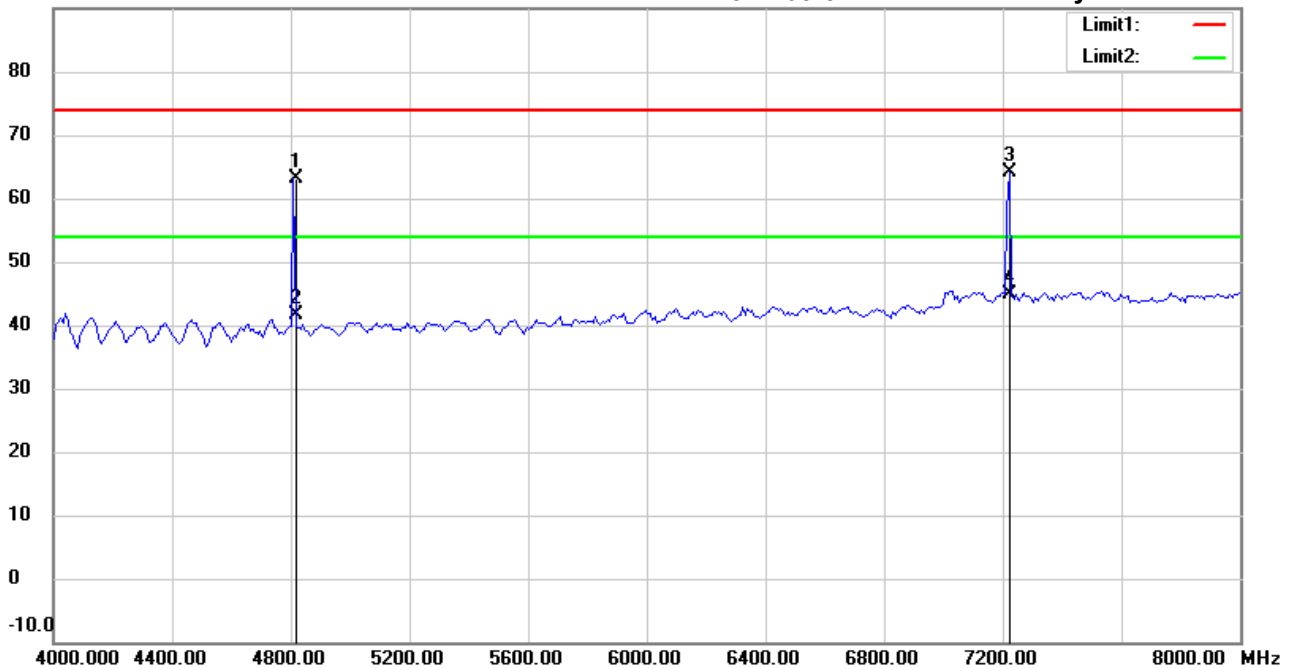
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:03:54 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4810.526	65.04	peak	-1.92	63.12	74.00	150	100	-10.88	
	4810.526	43.44	AVG	-1.92	41.52	54.00	150	100	-12.48	
	7215.446	60.80	peak	3.25	64.05	74.00	150	235	-9.95	
*	7215.446	41.75	AVG	3.25	45.00	54.00	150	235	-9.00	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#7

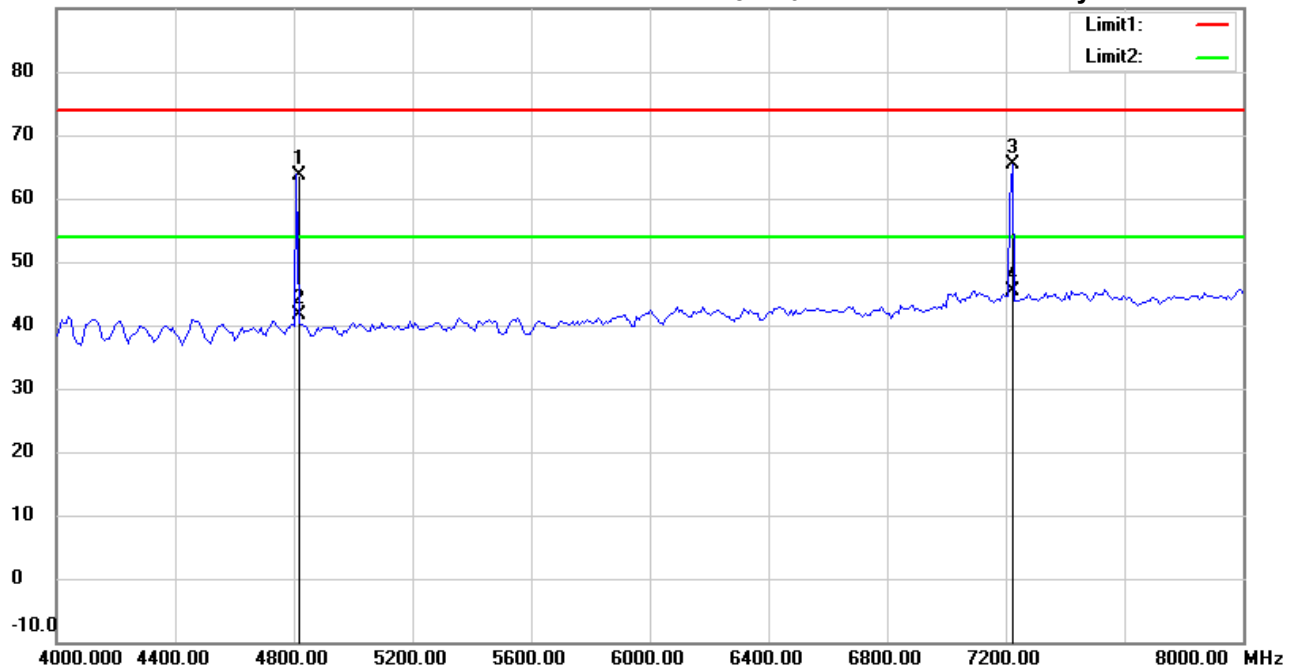
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:07:14 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4810.531	65.50	peak	-1.92	63.58	74.00	150	130	-10.42	
	4810.531	43.62	AVG	-1.92	41.70	54.00	150	130	-12.30	
*	7215.130	62.22	peak	3.25	65.47	74.00	150	295	-8.53	
	7215.130	42.05	AVG	3.25	45.30	54.00	150	295	-8.70	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

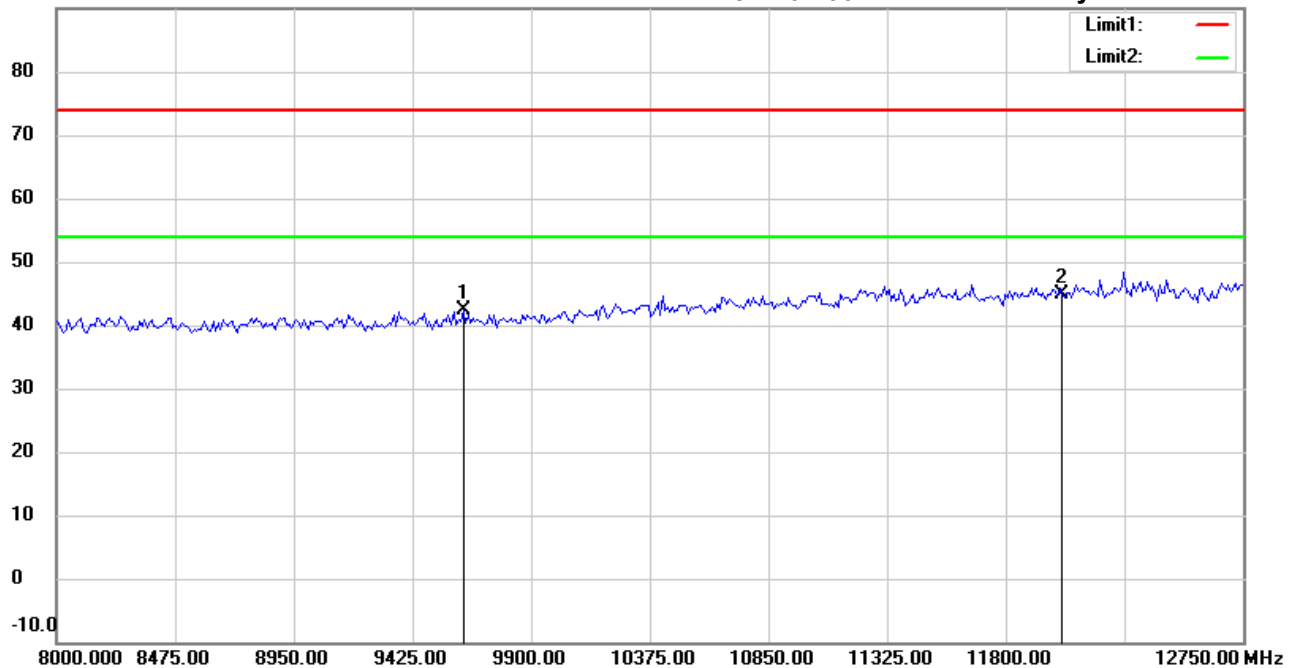
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:04:06 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9620.000	35.78	peak	6.55	42.33	74.00	150	270	-31.67	
*	12025.000	33.05	peak	11.80	44.85	74.00	150	125	-29.15	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

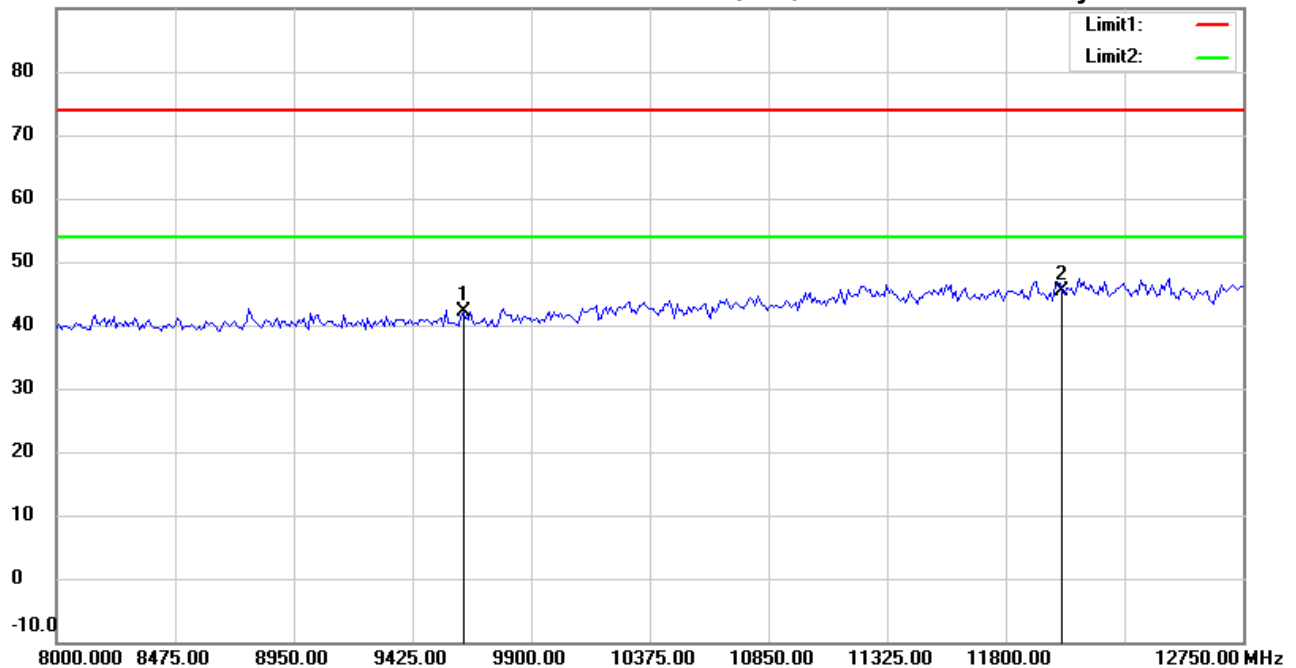
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:07:27 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9620.000	35.60	peak	6.55	42.15	74.00	150	80	-31.85	
*	12025.000	33.68	peak	11.80	45.48	74.00	150	335	-28.52	

*:Maximum data x:Over limit !:over margin



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Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

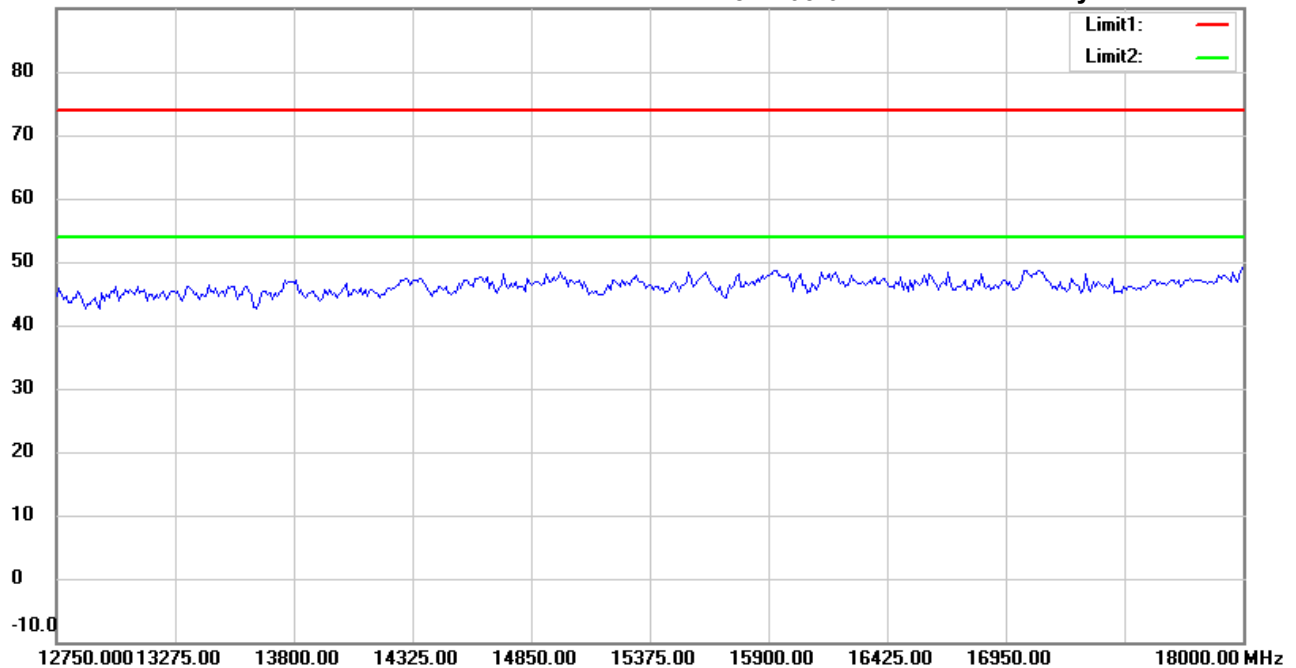
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:05:04 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

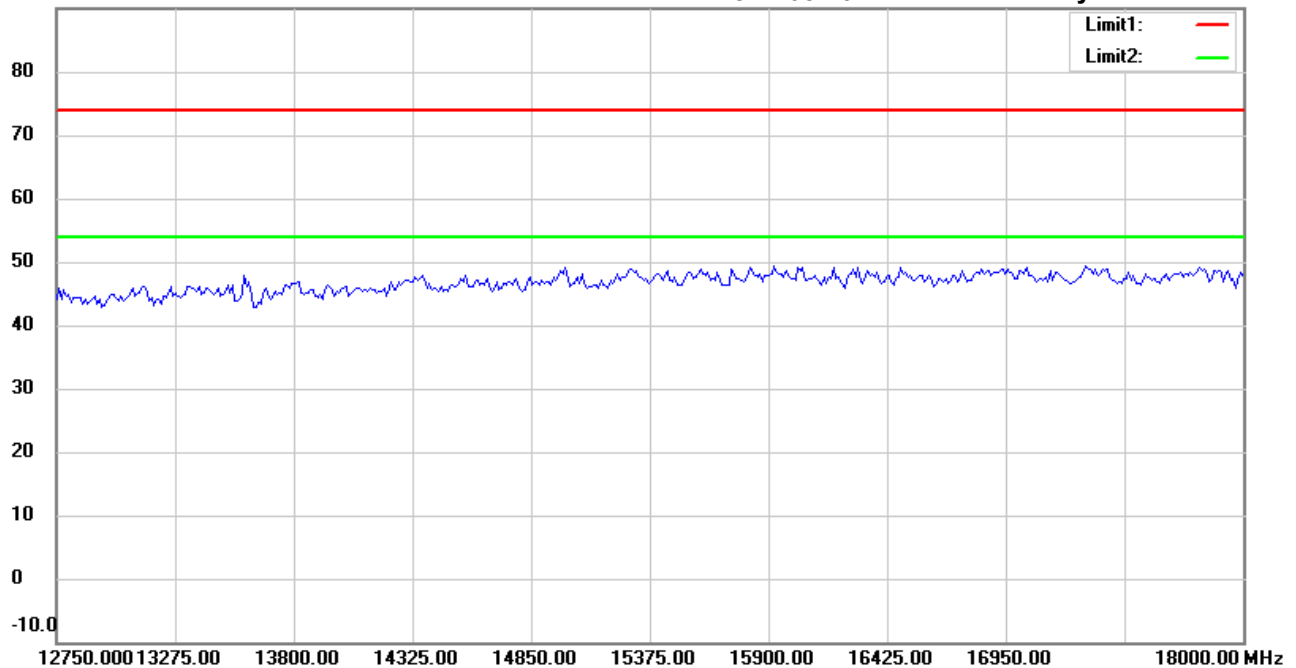
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:08:29 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

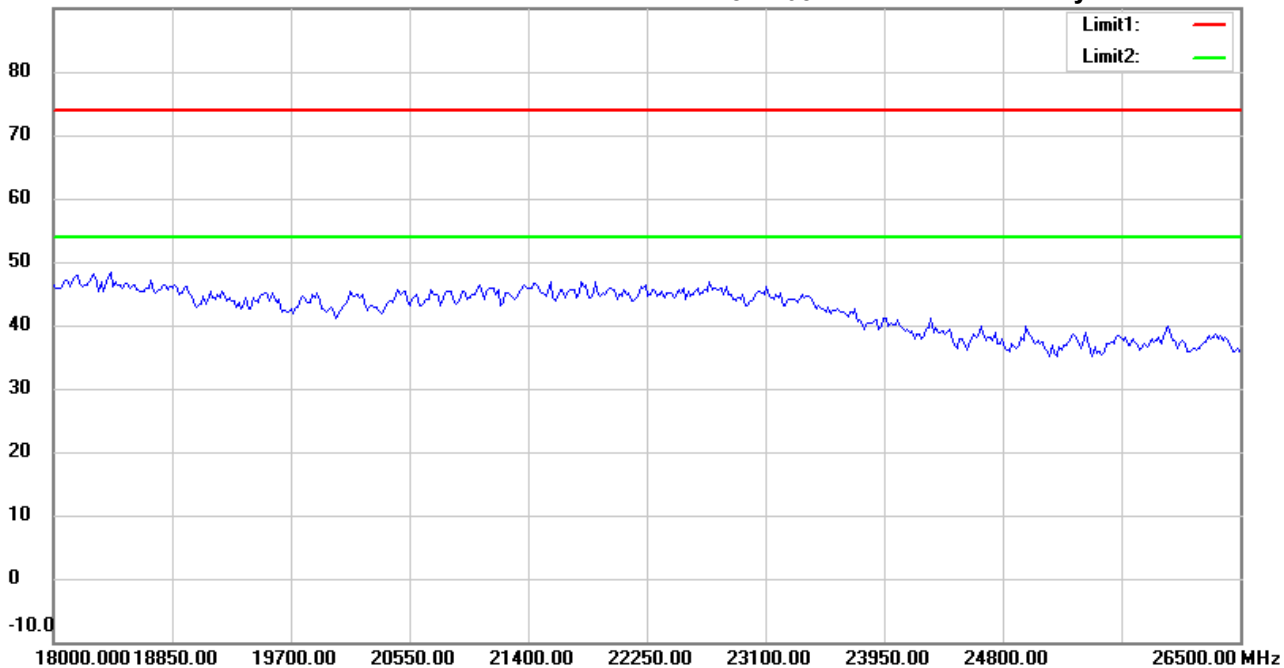
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:05:14 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #10

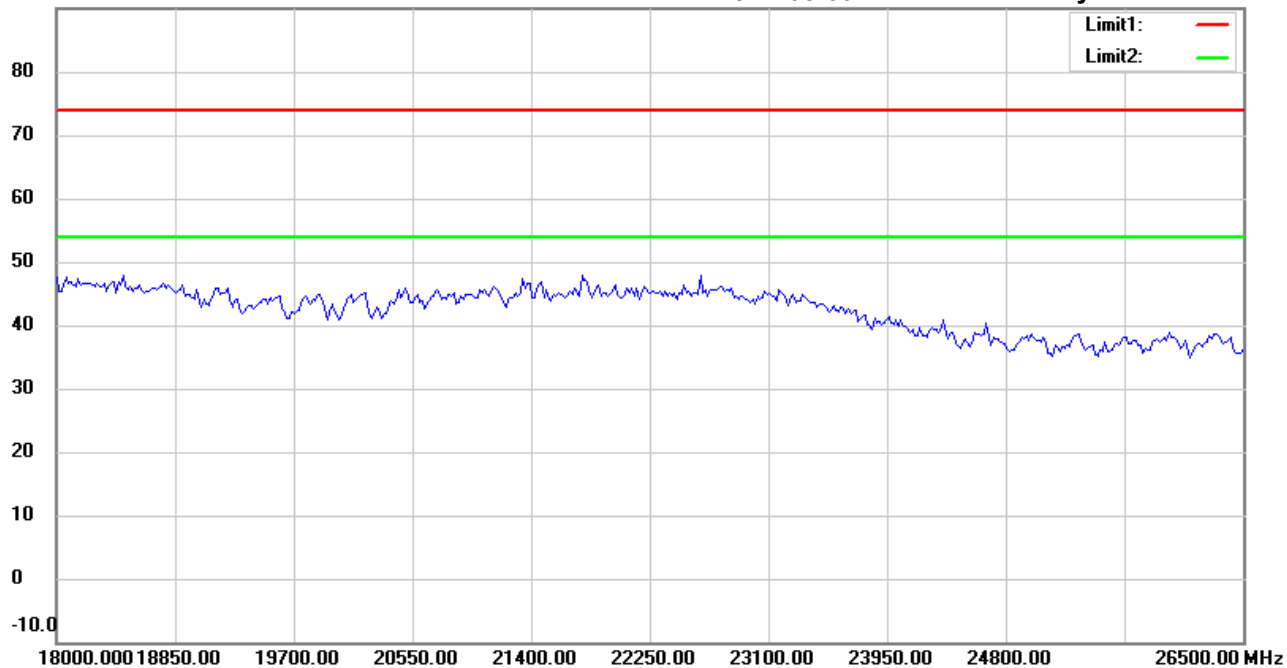
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:08:39 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2405MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

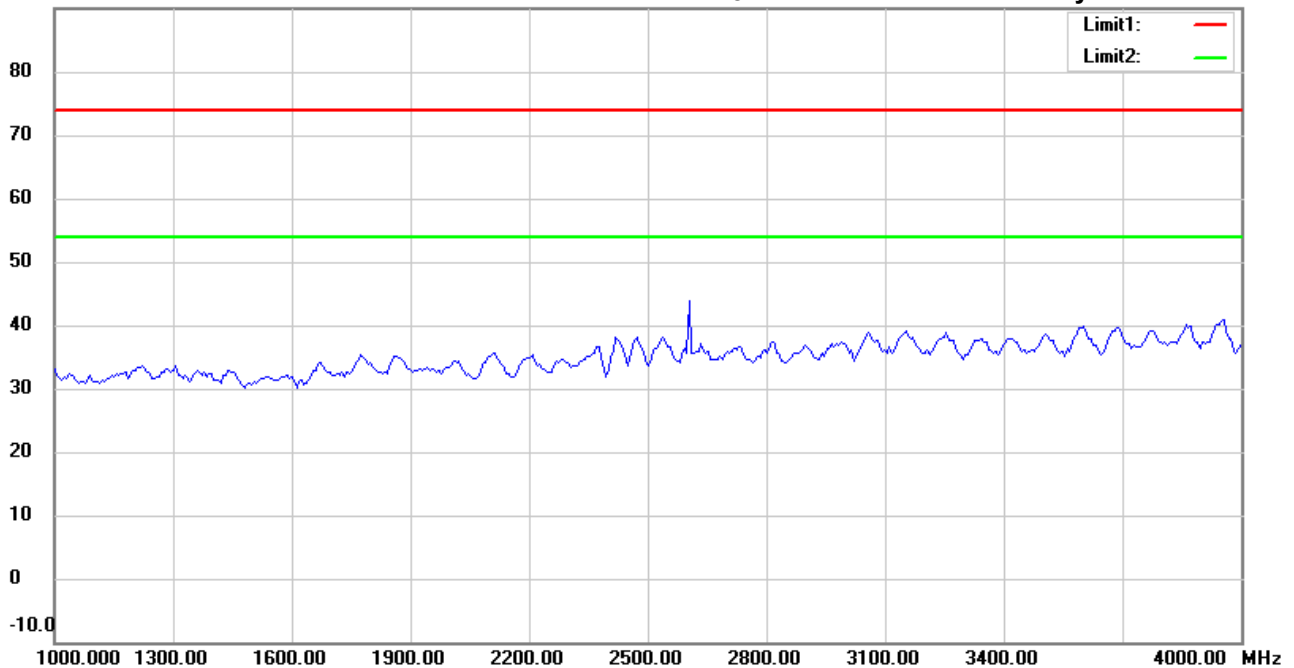
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:44:44 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

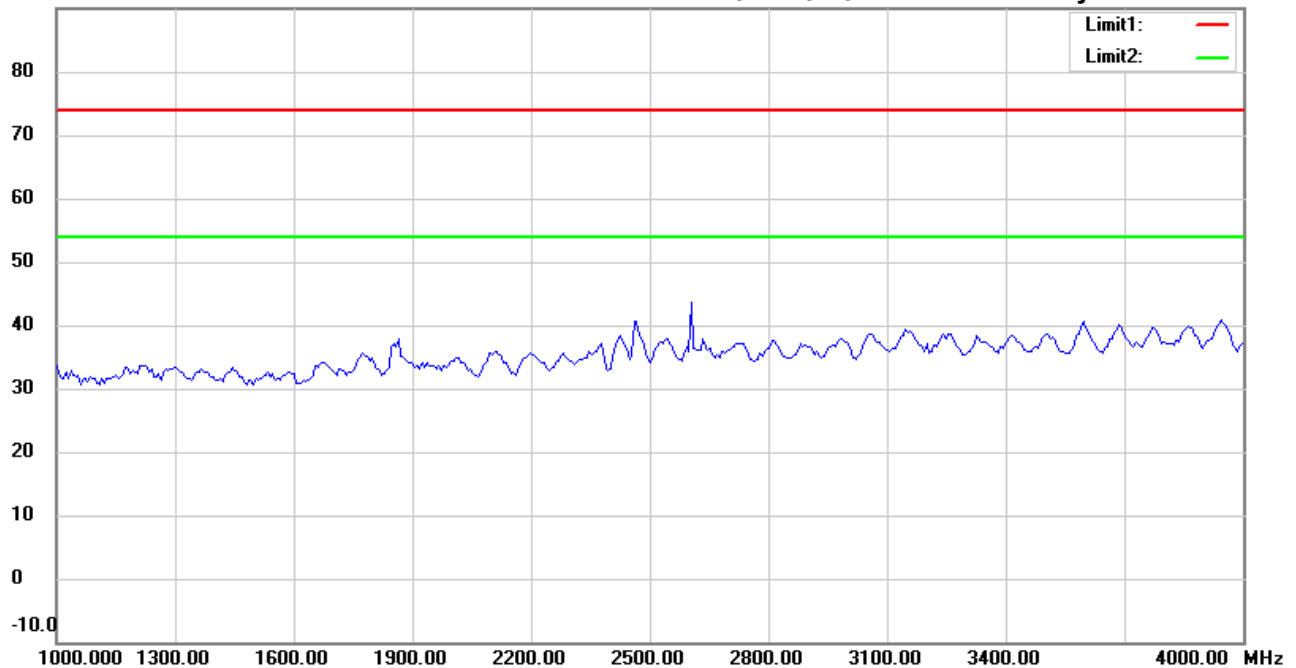
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:48:15 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File :3

Data :#2

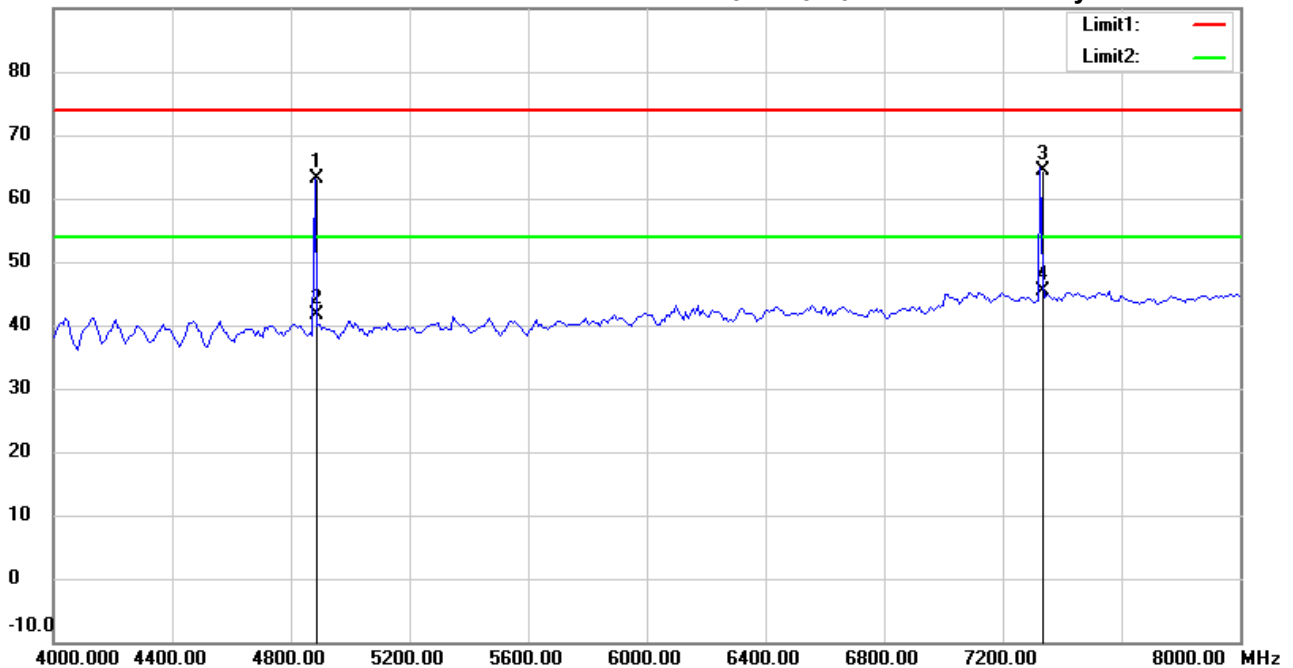
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:45:45 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4884.701	64.75	peak	-1.66	63.09	74.00	150	350	-10.91	
	4884.701	43.18	AVG	-1.66	41.52	54.00	150	350	-12.48	
	7326.701	60.95	peak	3.48	64.43	74.00	150	180	-9.57	
*	7326.701	41.82	AVG	3.48	45.30	54.00	150	180	-8.70	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

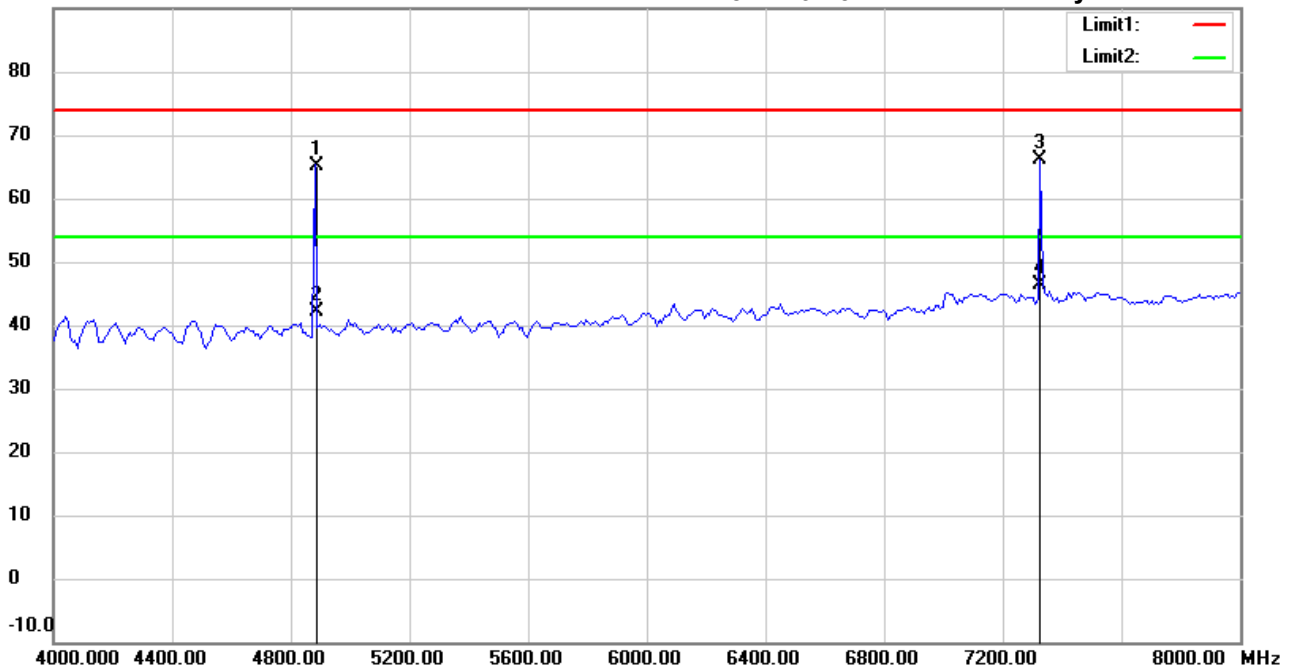
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:49:15 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4883.868	66.83	peak	-1.67	65.16	74.00	150	215	-8.84	
	4883.868	43.72	AVG	-1.67	42.05	54.00	150	215	-11.95	
	7325.871	62.54	peak	3.48	66.02	74.00	150	70	-7.98	
*	7325.871	42.95	AVG	3.48	46.43	54.00	150	70	-7.57	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#3

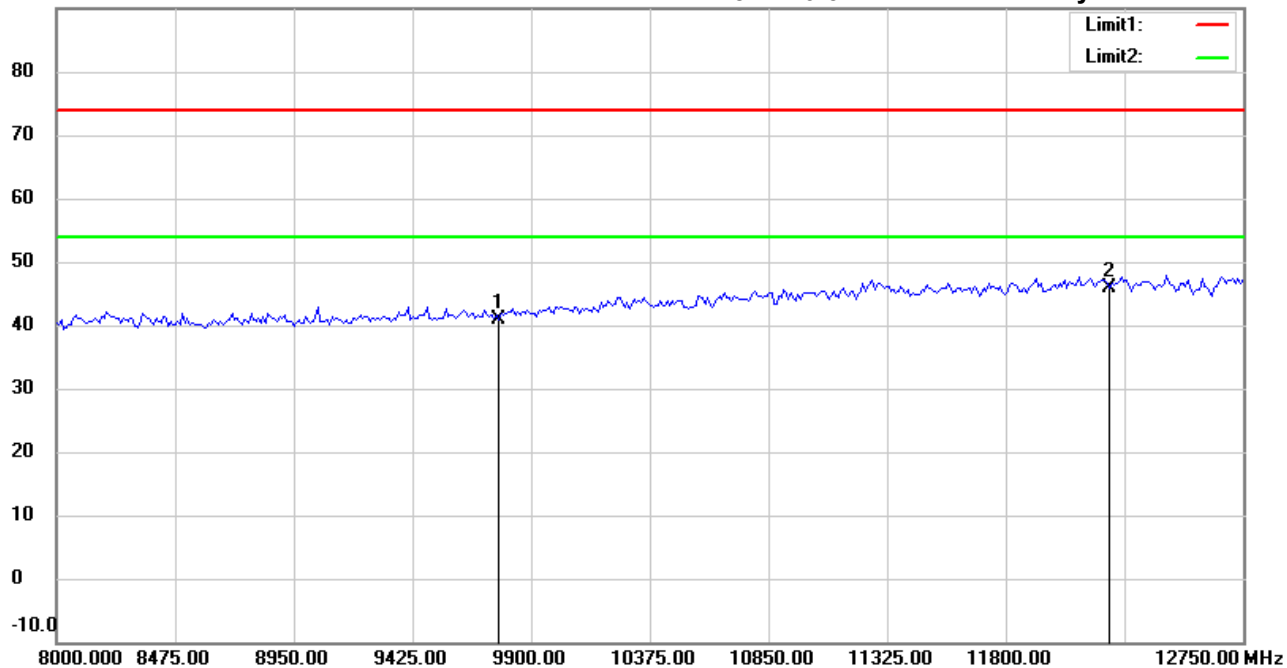
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:46:51 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: **Horizontal**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9768.000	34.08	peak	6.77	40.85	74.00	150	205	-33.15	
*	12210.000	33.11	peak	12.78	45.89	74.00	150	140	-28.11	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File :3

Data :#8

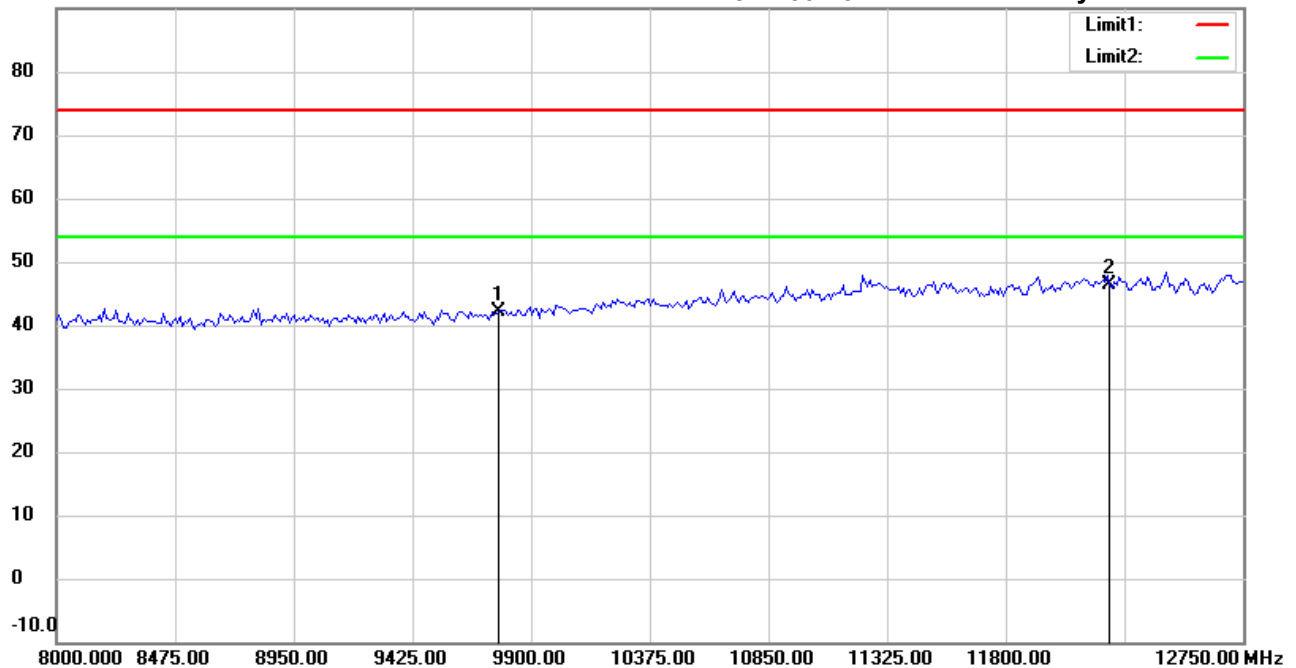
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:50:15 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9768.000	35.31	peak	6.77	42.08	74.00	150	10	-31.92	
*	12210.000	33.69	peak	12.78	46.47	74.00	150	230	-27.53	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

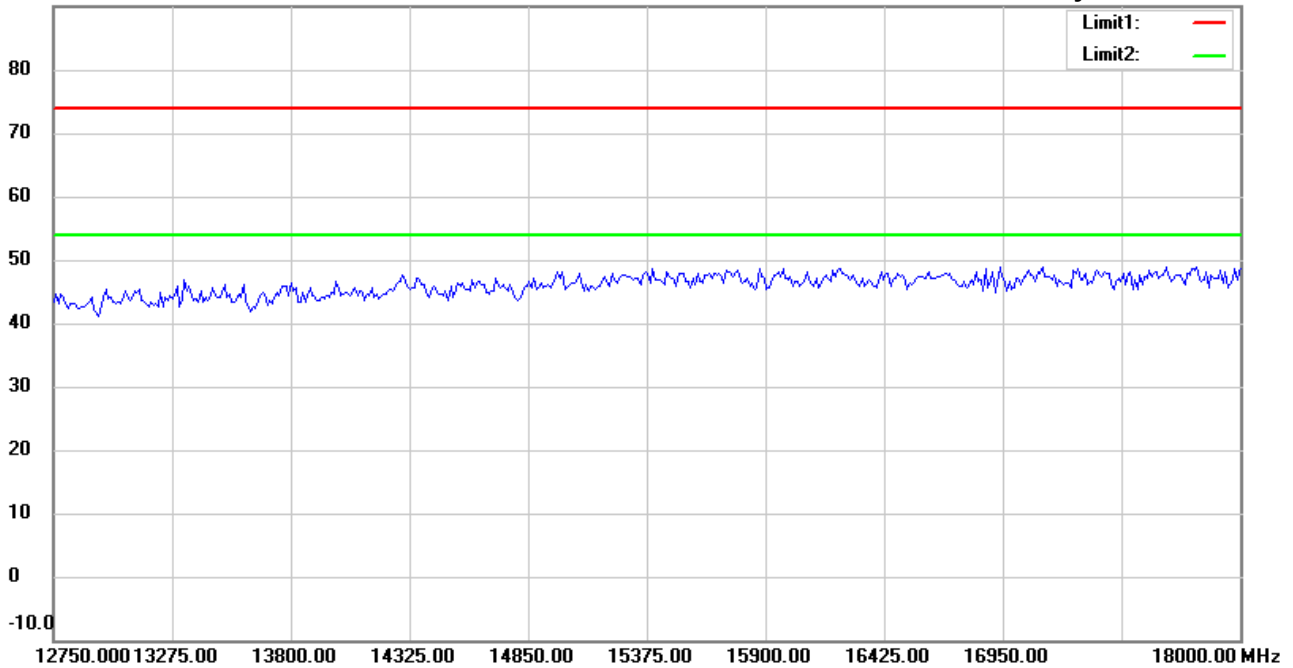
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:47:05 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: Horizontal

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

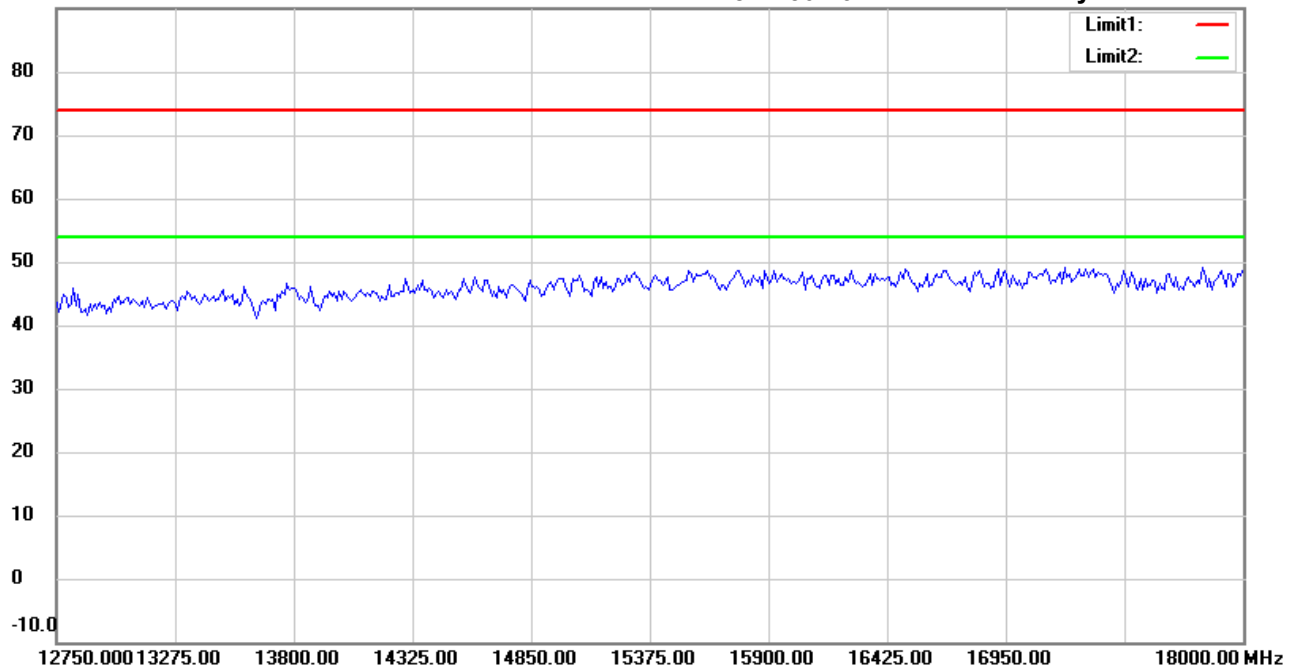
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:50:29 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

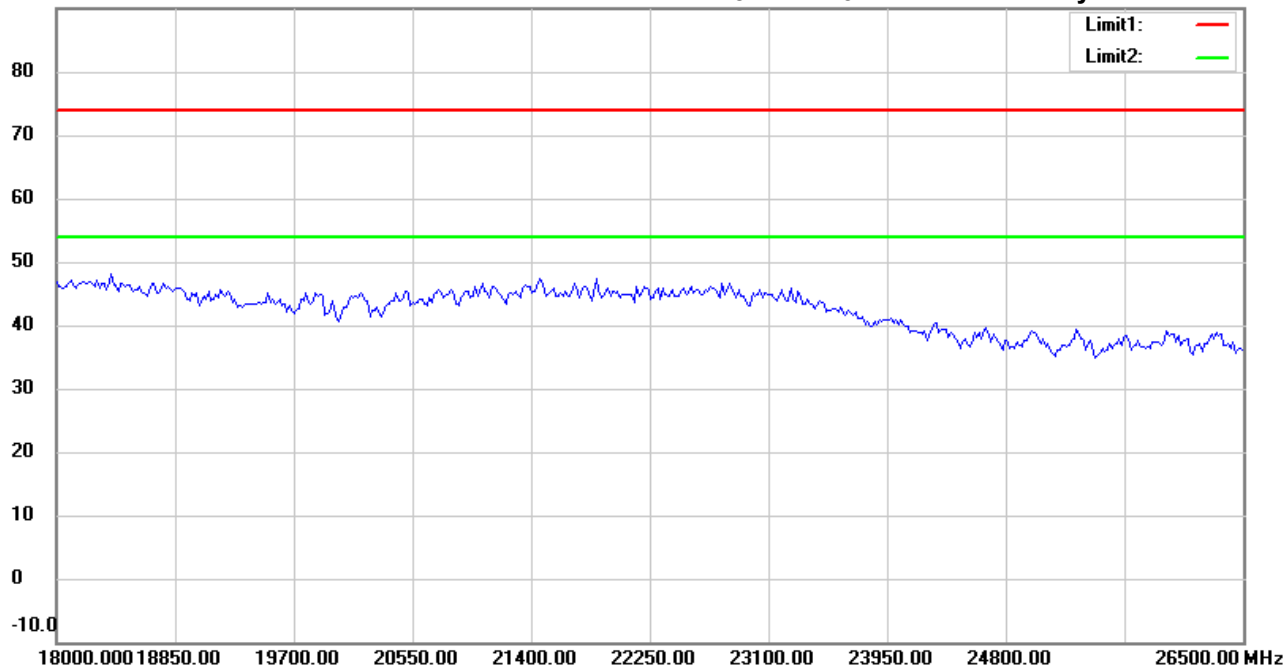
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:47:15 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #10

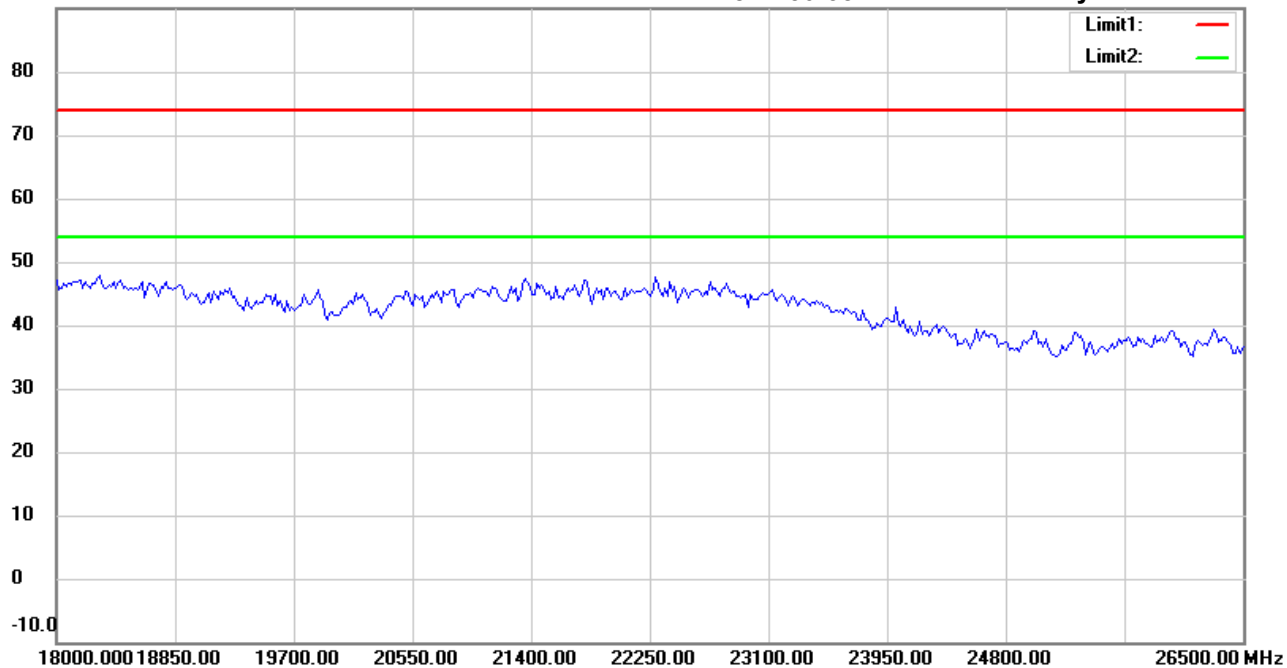
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 2:50:38 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2442MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

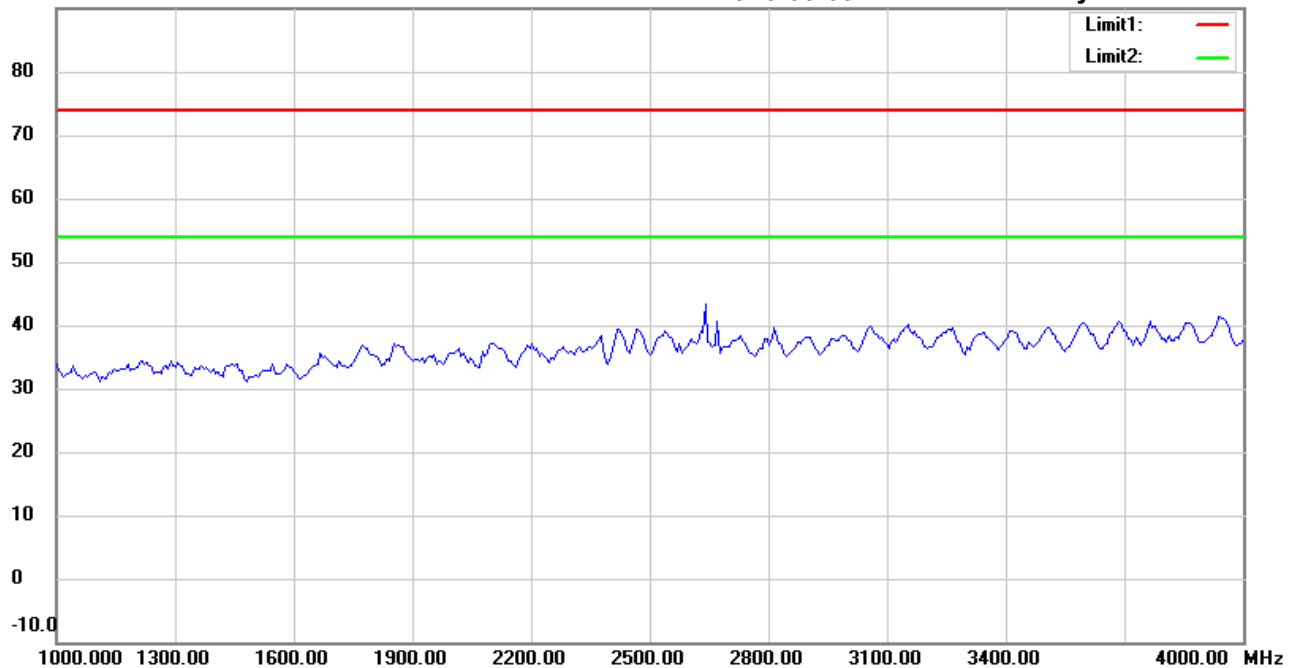
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:33:33 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

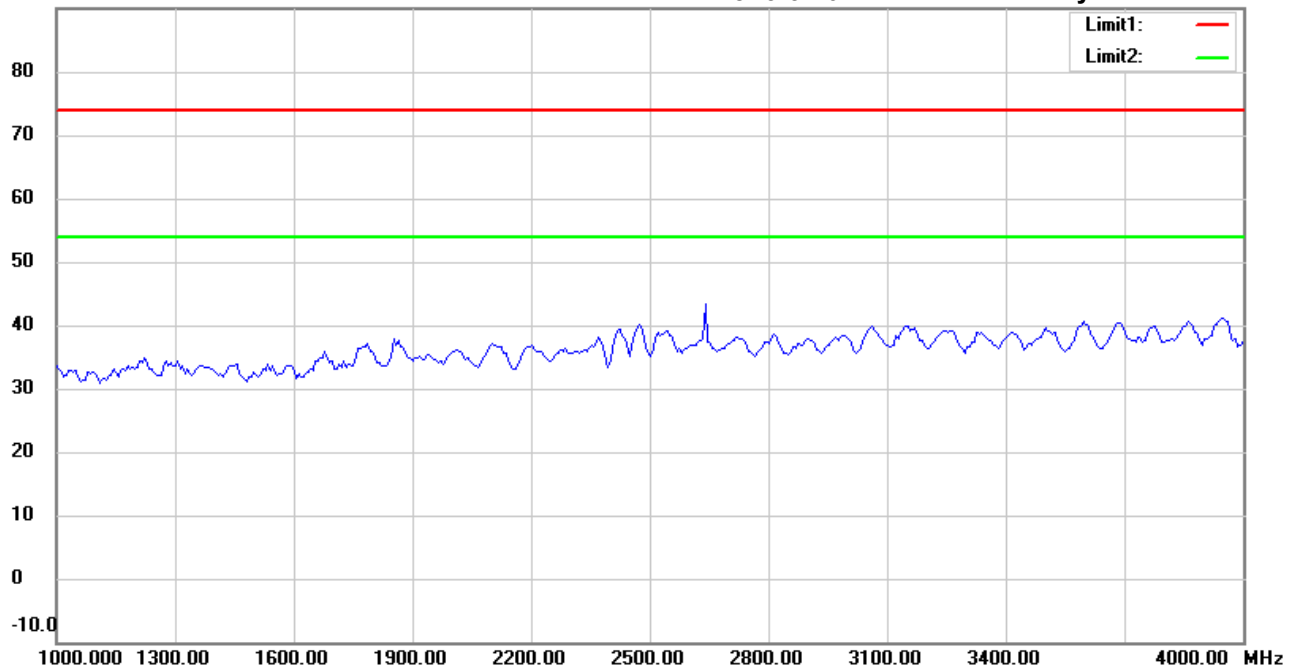
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:37:04 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

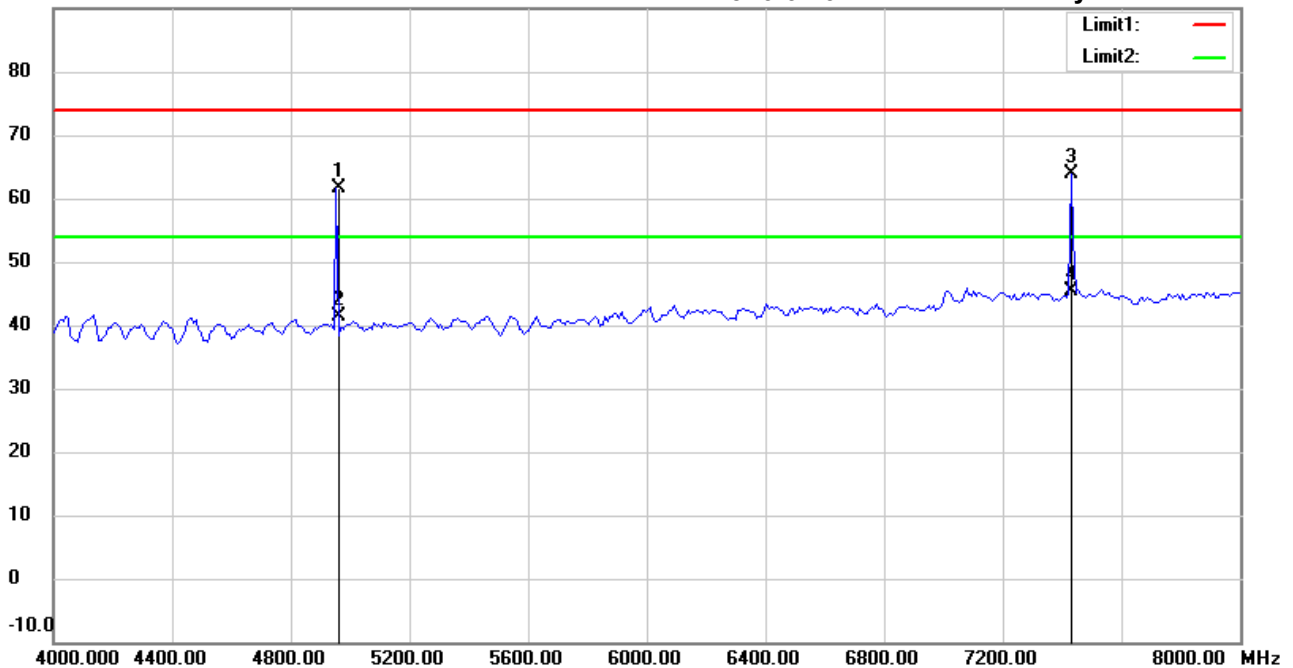
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:34:34 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4954.409	62.90	peak	-1.38	61.52	74.00	150	225	-12.48	
	4954.409	42.86	AVG	-1.38	41.48	54.00	150	225	-12.52	
	7430.842	60.15	peak	3.74	63.89	74.00	150	40	-10.11	
*	7430.842	41.74	AVG	3.74	45.48	54.00	150	40	-8.52	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

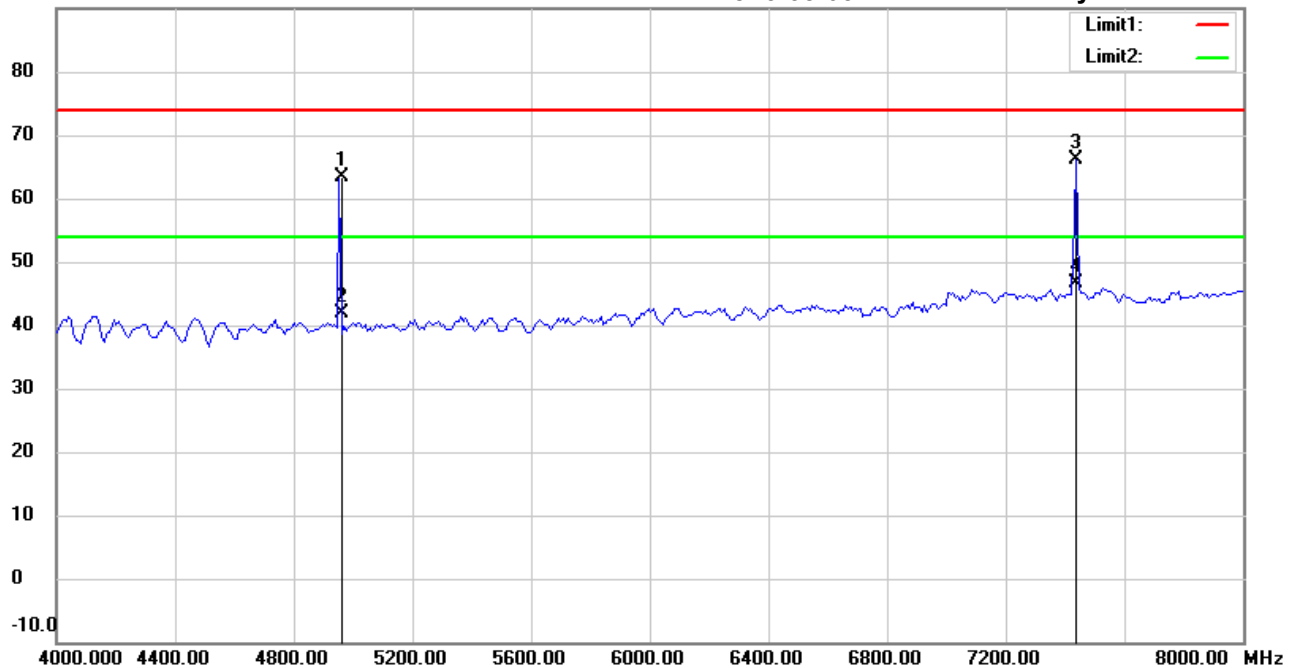
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:38:05 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4954.409	64.71	peak	-1.38	63.33	74.00	150	120	-10.67	
	4954.409	43.29	AVG	-1.38	41.91	54.00	150	120	-12.09	
	7432.165	62.30	peak	3.73	66.03	74.00	150	335	-7.97	
*	7432.165	42.95	AVG	3.73	46.68	54.00	150	335	-7.32	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

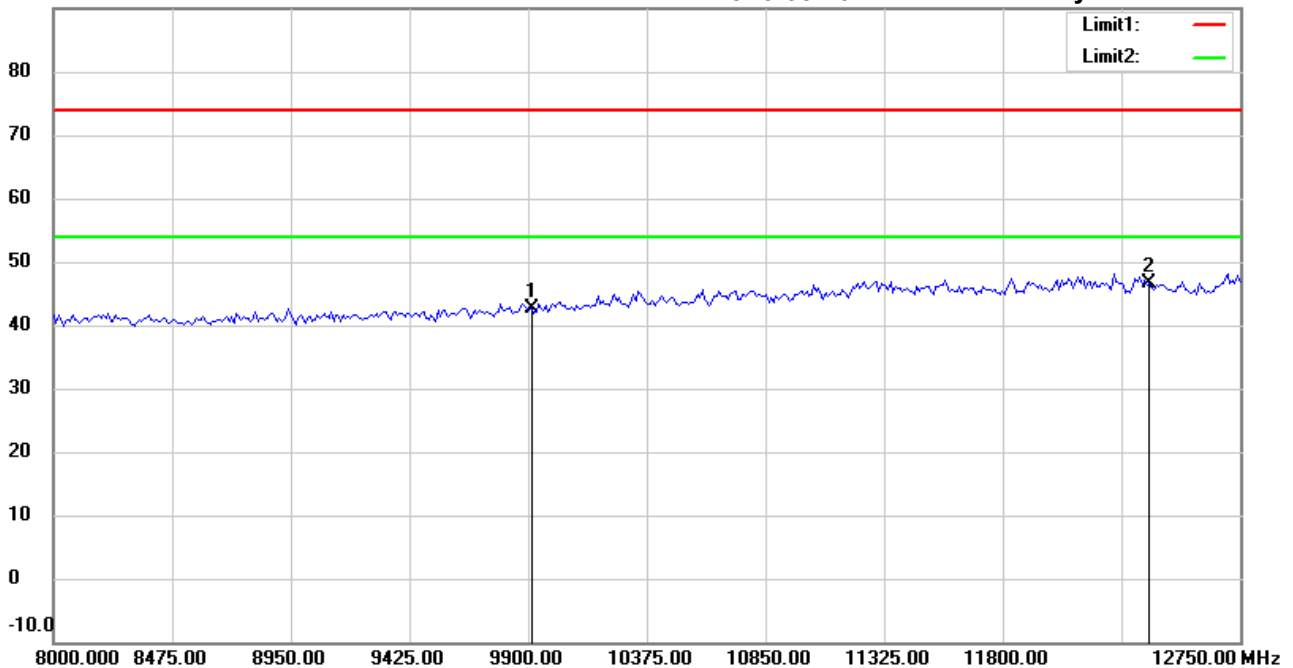
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:35:40 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9908.000	35.57	peak	7.14	42.71	74.00	150	140	-31.29	
*	12385.000	34.03	peak	12.66	46.69	74.00	150	315	-27.31	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

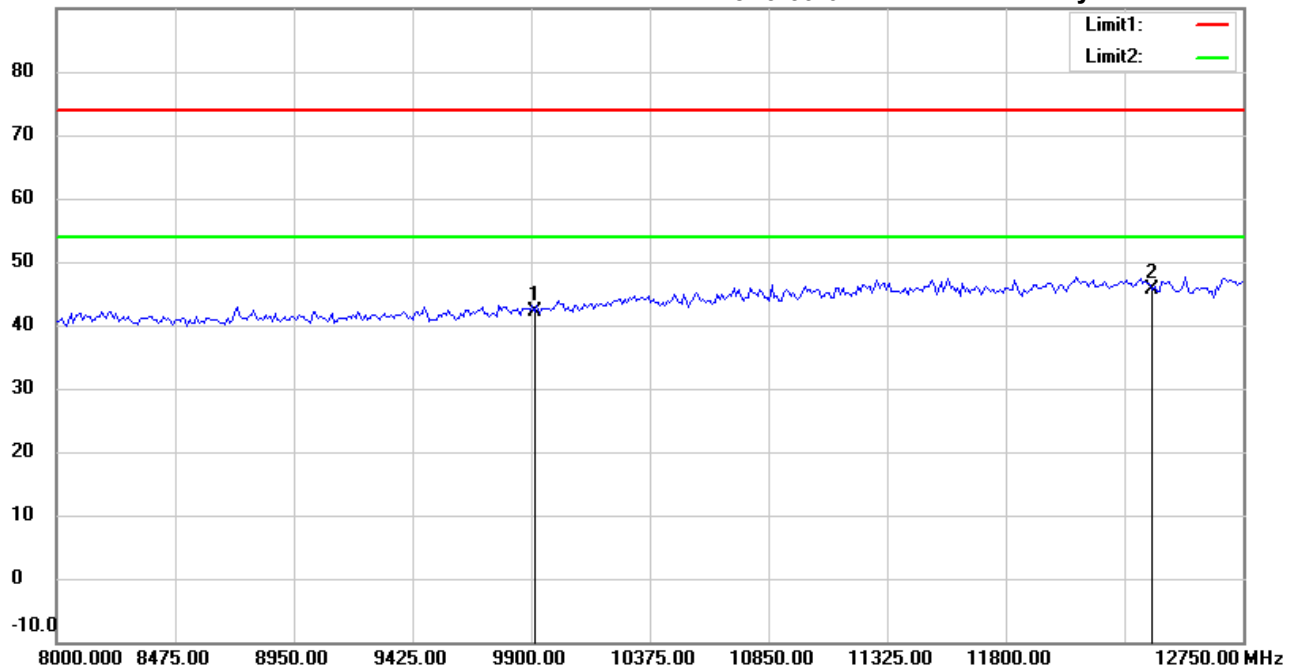
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:39:04 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9908.000	34.93	peak	7.14	42.07	74.00	150	180	-31.93	
*	12385.000	33.07	peak	12.66	45.73	74.00	150	305	-28.27	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

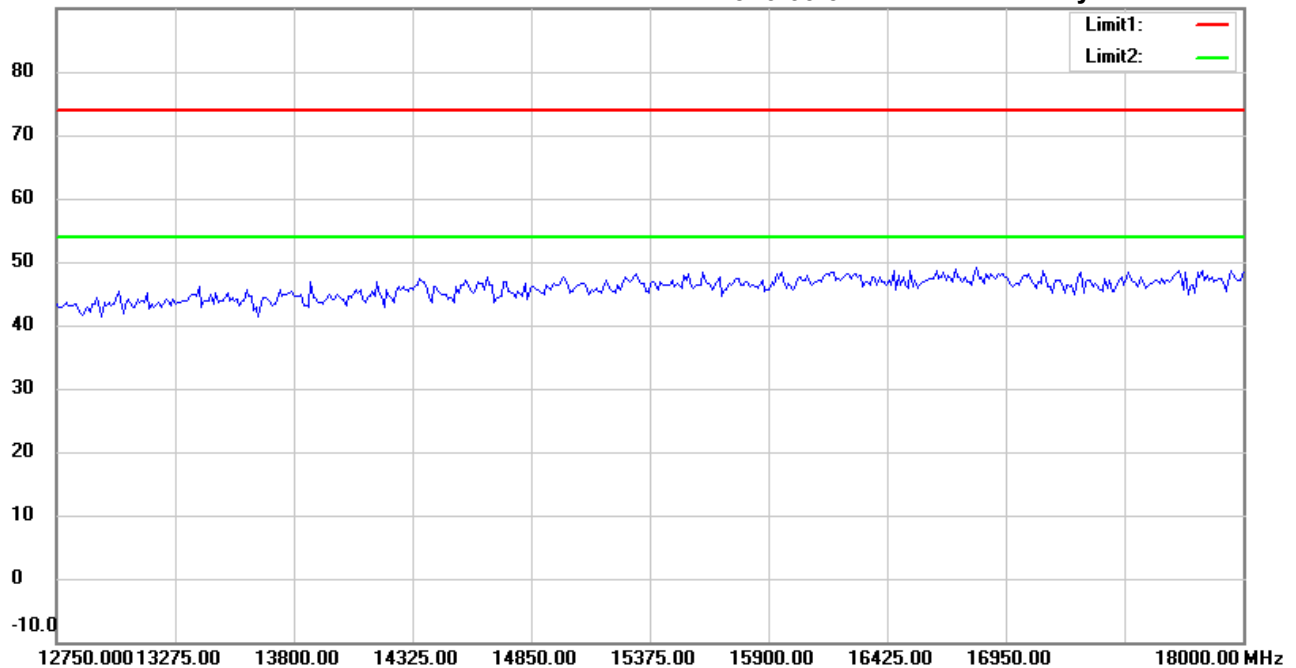
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:35:54 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #9

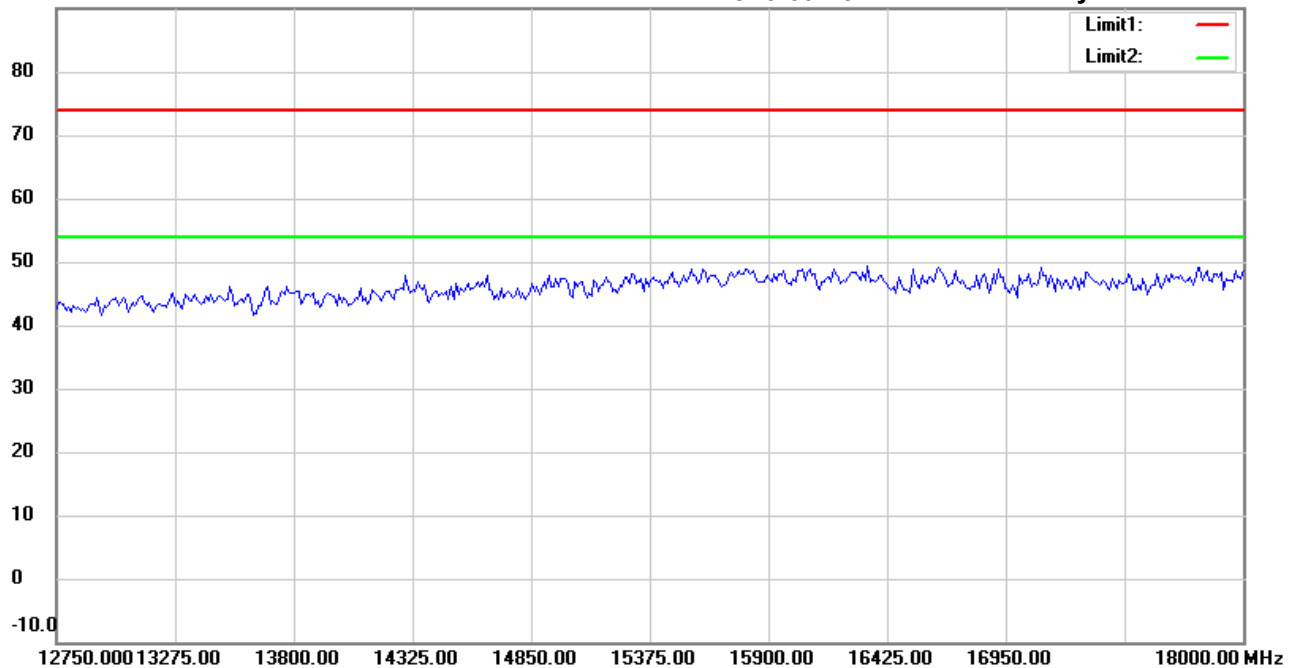
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:39:18 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Nei-hu, Taipei
Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

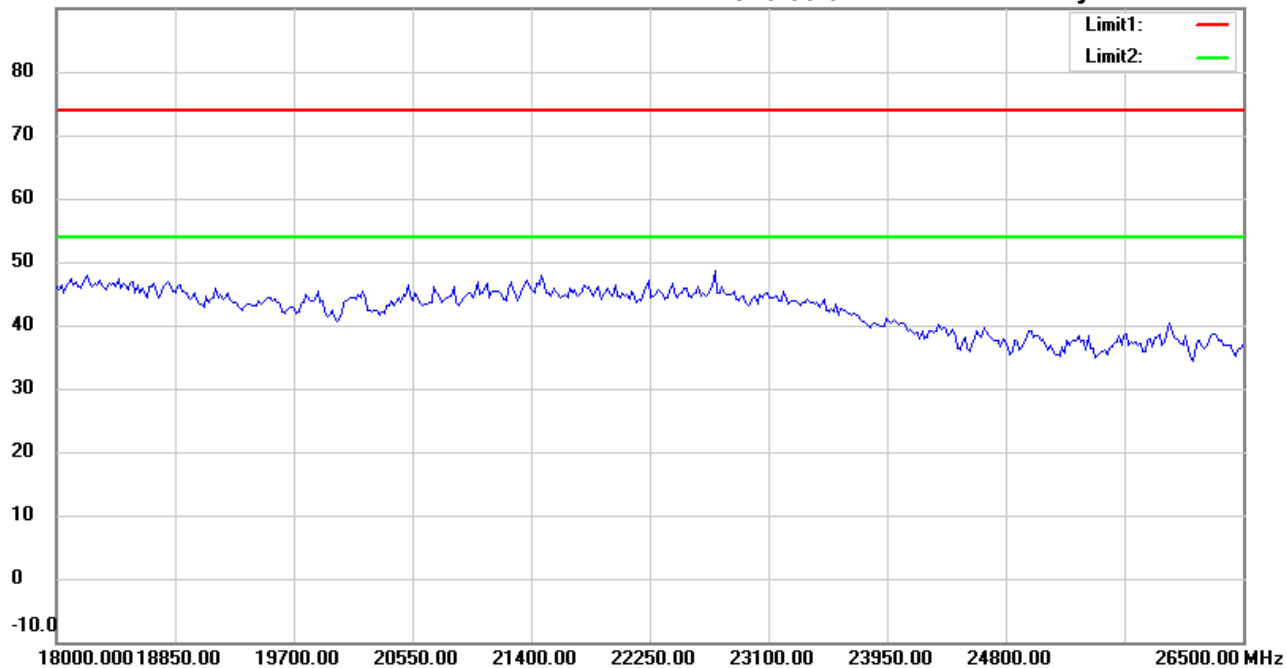
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:36:04 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #10

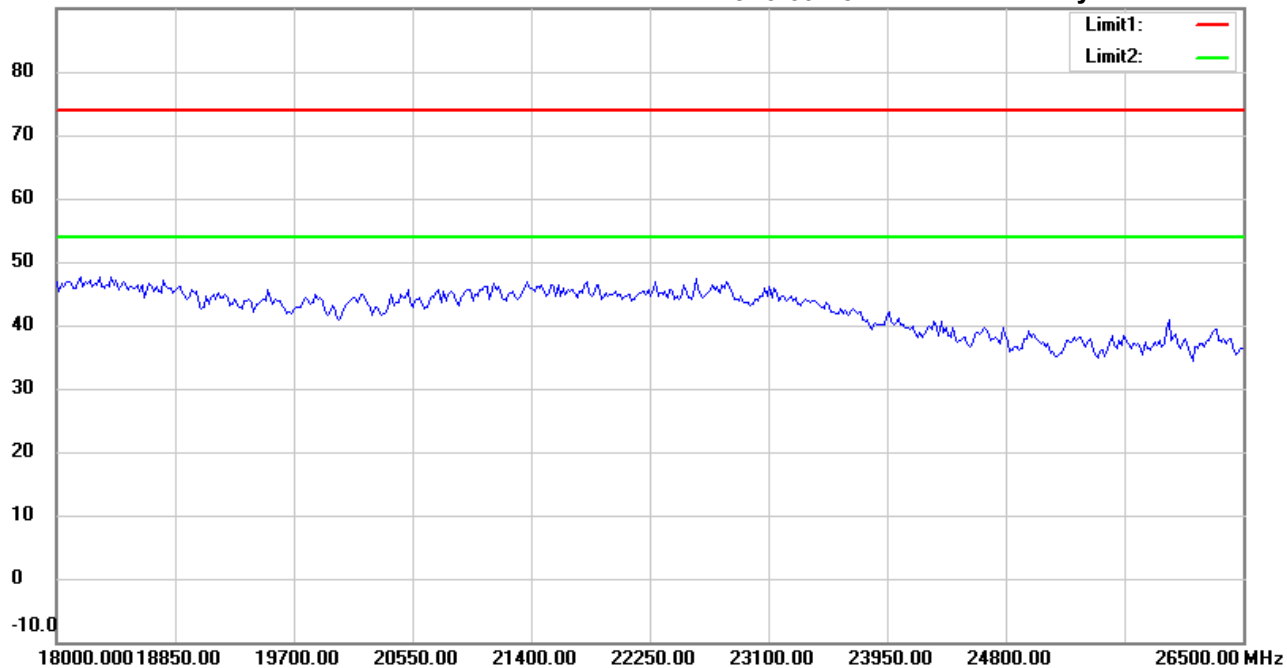
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 3:39:28 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : TX 2477MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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 Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

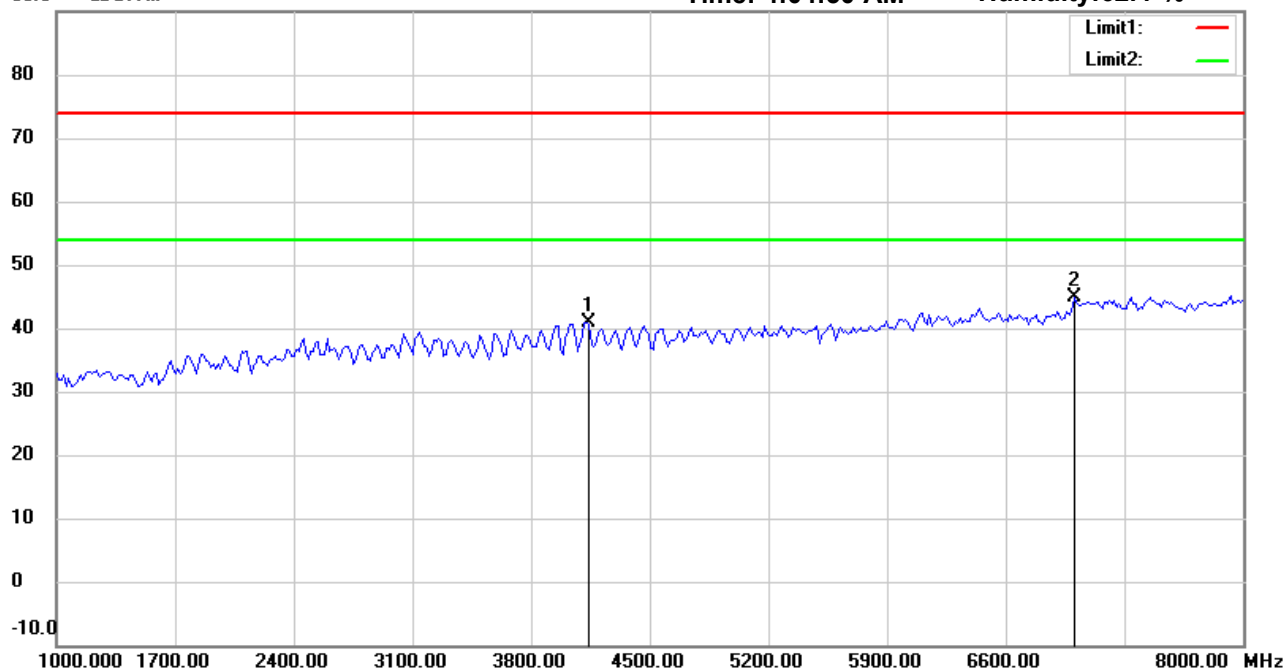
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:04:50 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

Polarization: *Horizontal*

EUT : W6M22001-19616

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 2405MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4128.257	43.26	peak	-2.34	40.92	74.00	150	100	-33.08	
*	7004.008	41.27	peak	3.57	44.84	74.00	150	185	-29.16	



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

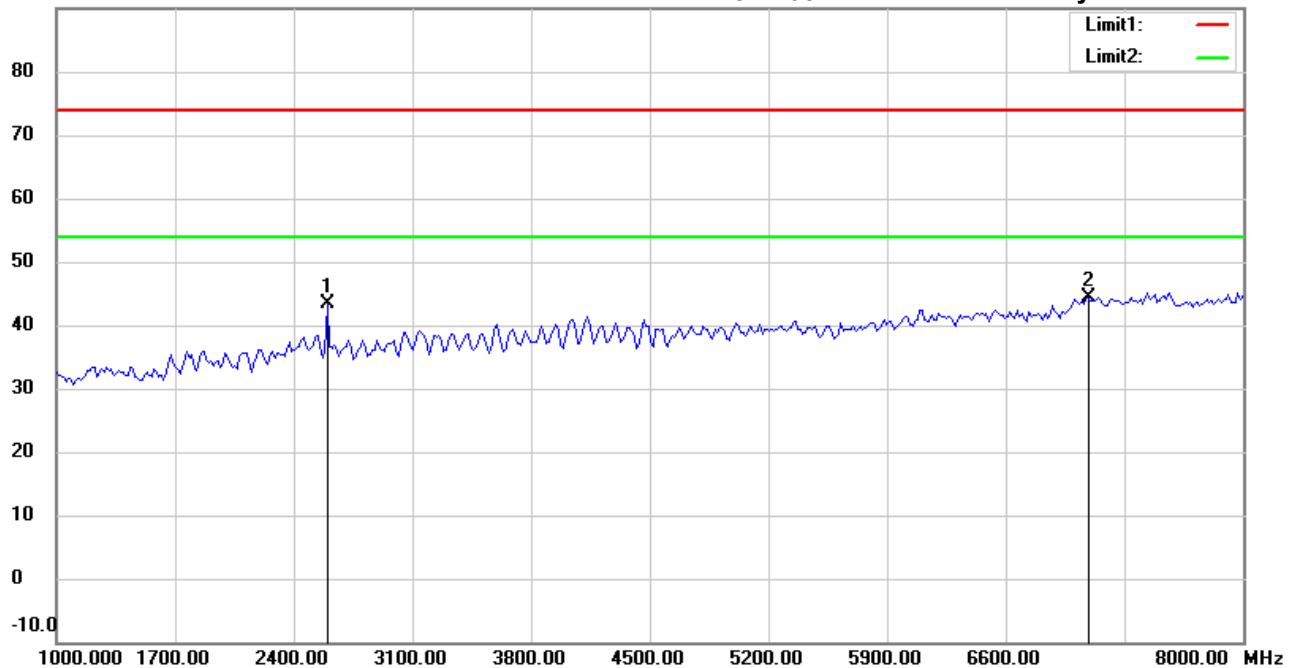
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:05:47 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2405MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2599.198	48.56	peak	-5.25	43.31	74.00	150	200	-30.69	
*	7088.176	40.86	peak	3.55	44.41	74.00	150	175	-29.59	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

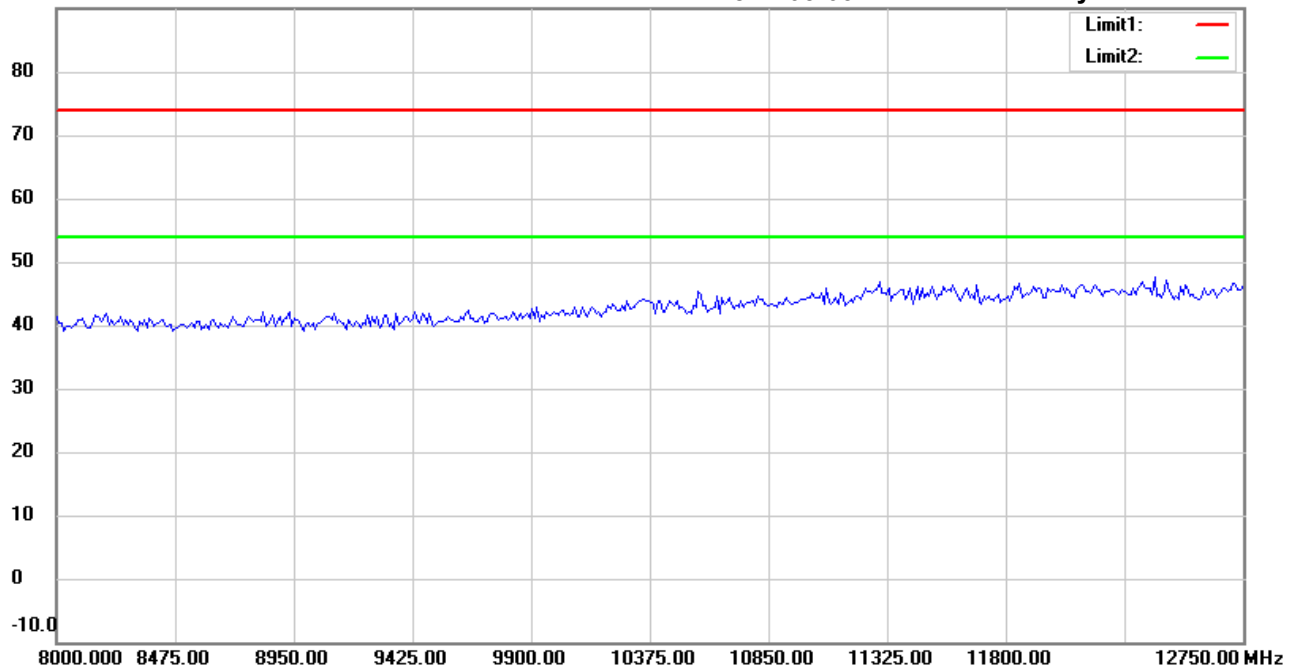
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:05:03 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2405MHz

Note :

Polarization: Horizontal

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

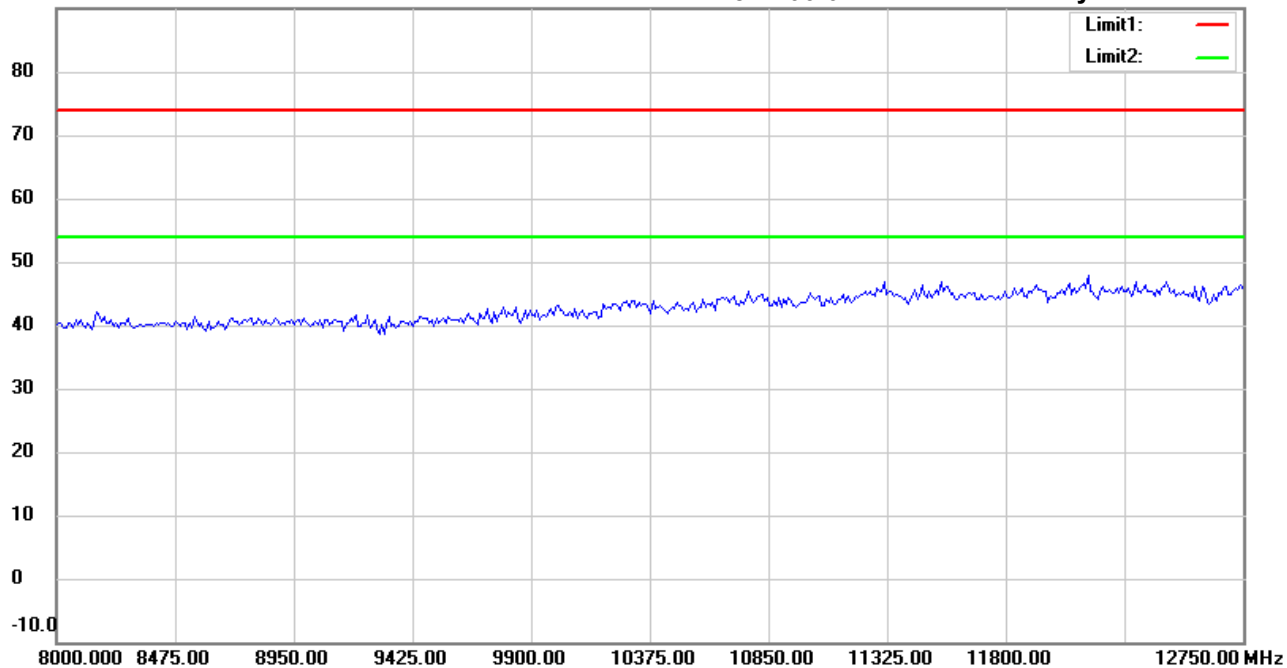
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:06:01 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2405MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

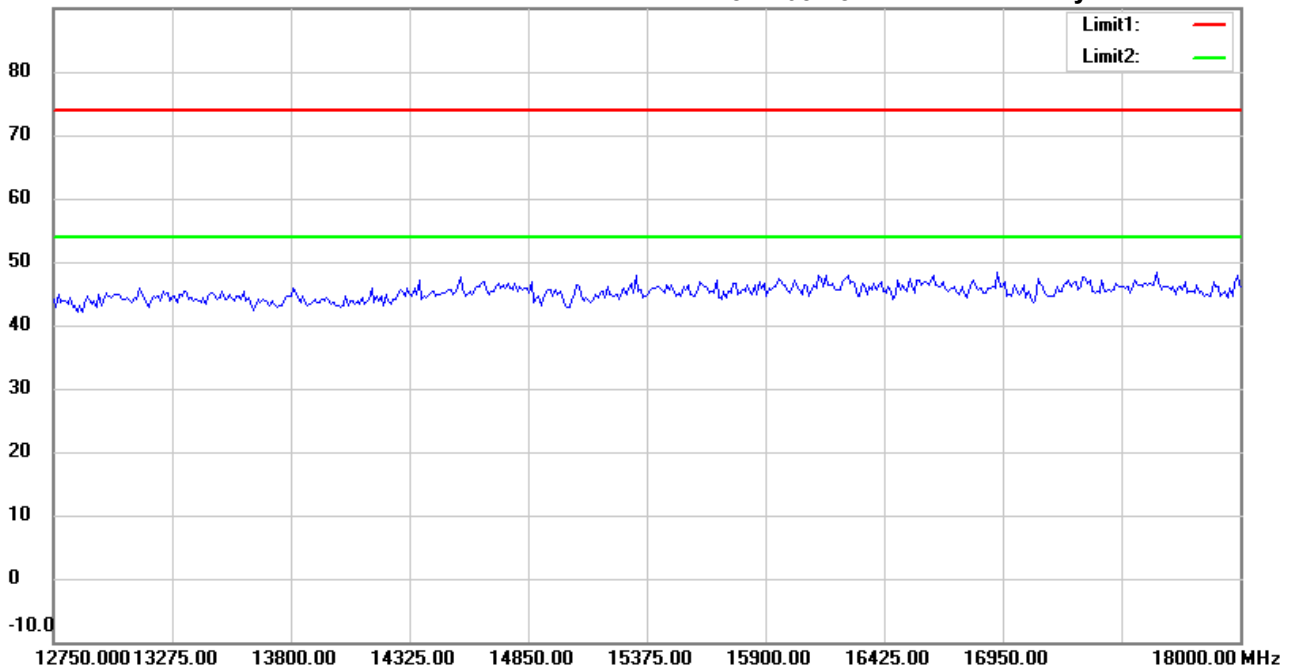
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:05:28 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2405MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

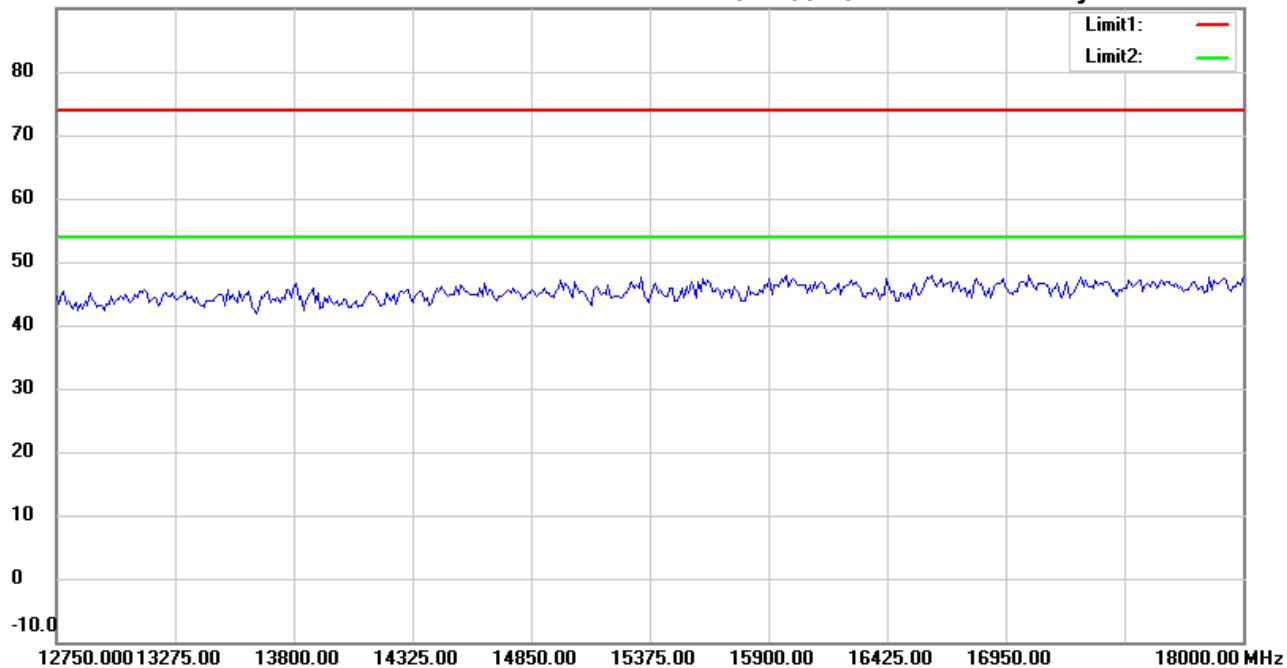
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:06:26 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2405MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

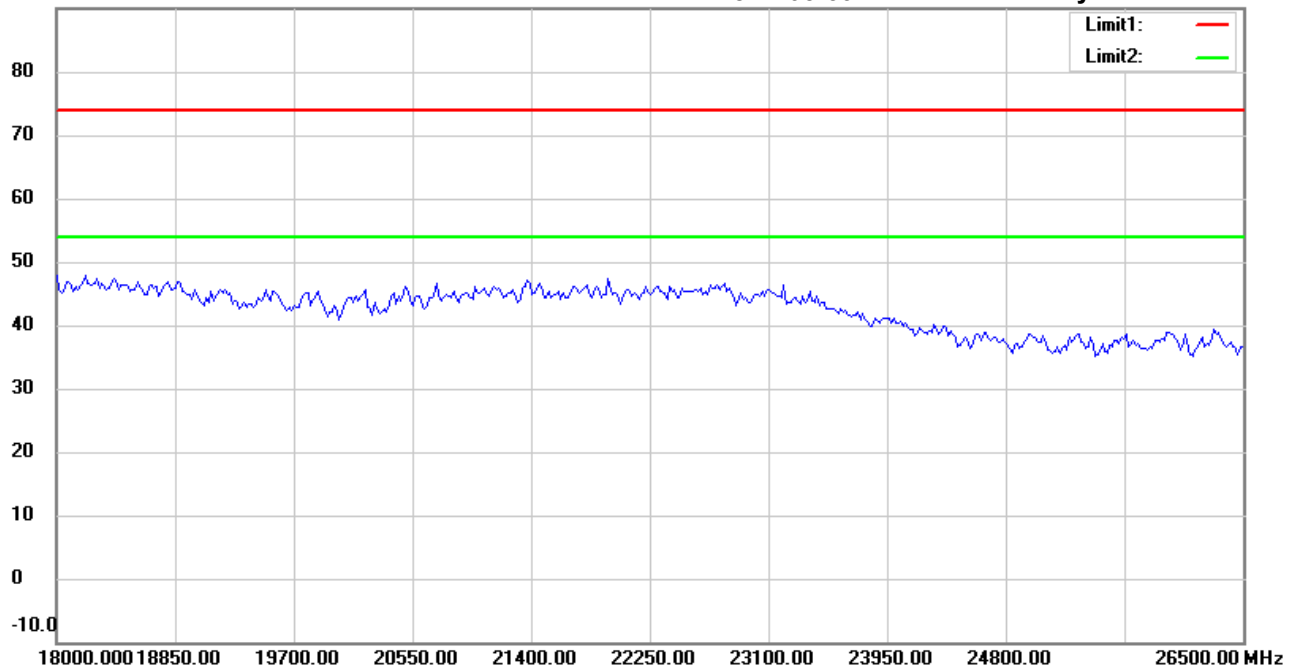
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:05:39 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2405MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

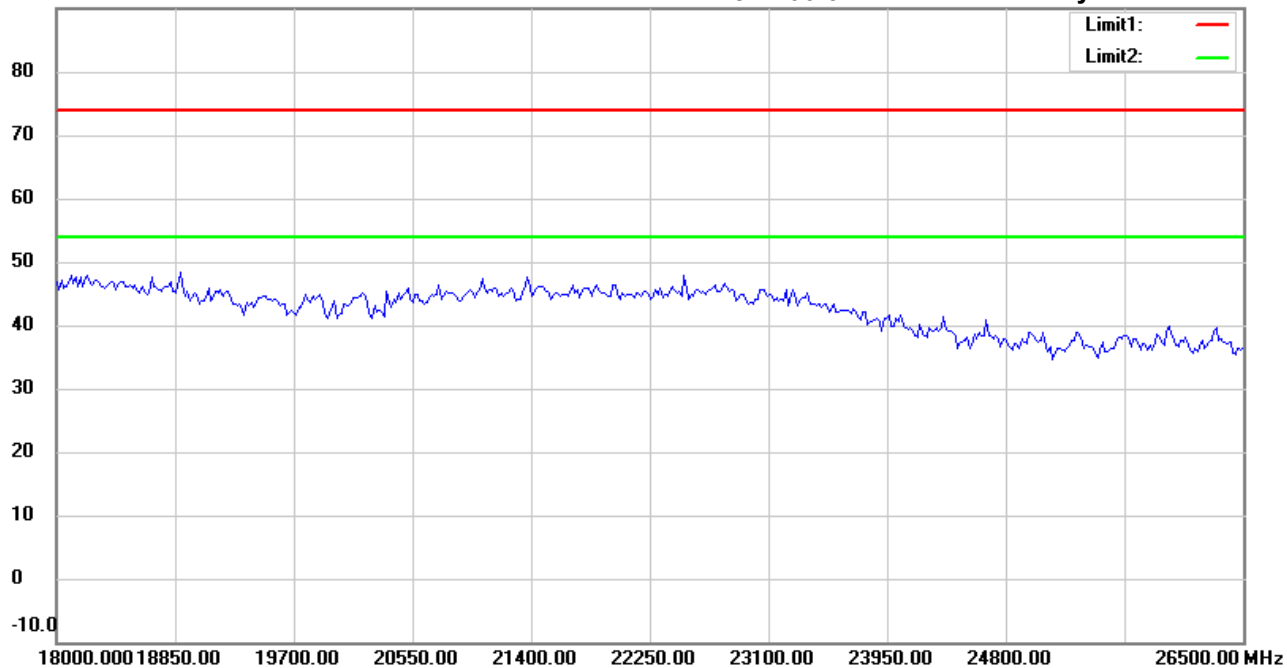
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:06:37 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2405MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

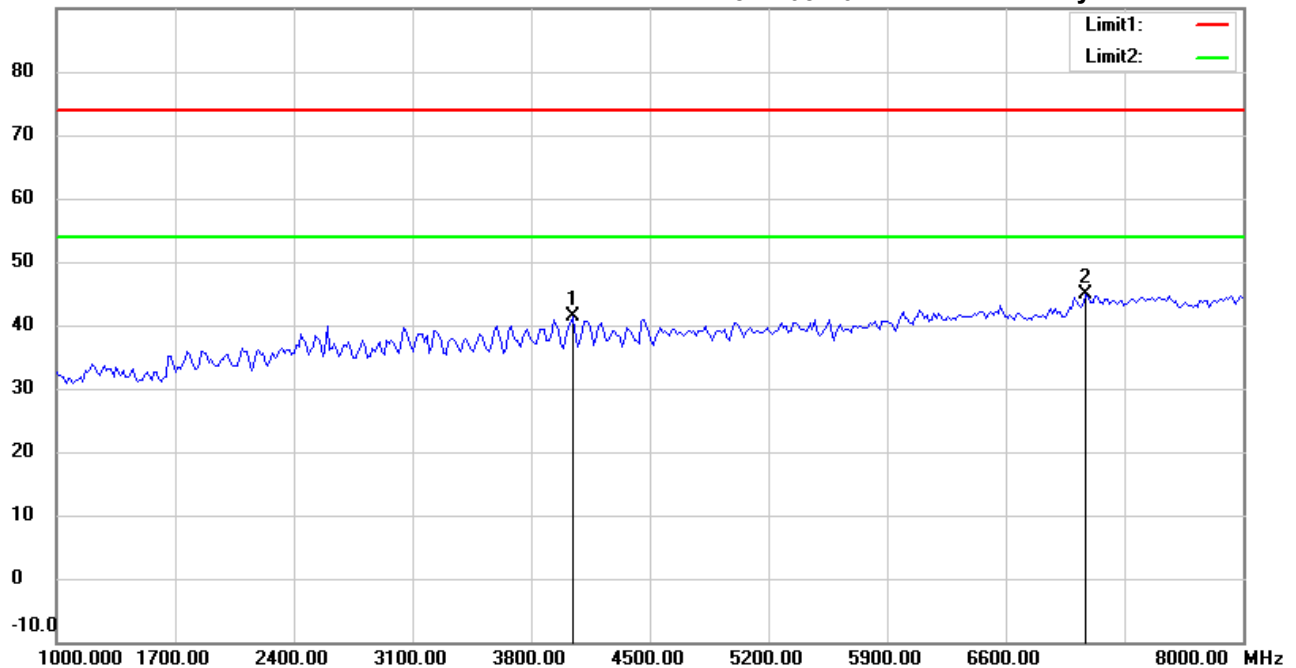
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:08:20 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2442MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4044.088	43.64	peak	-2.24	41.40	74.00	150	315	-32.60	
*	7074.148	41.33	peak	3.56	44.89	74.00	150	195	-29.11	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

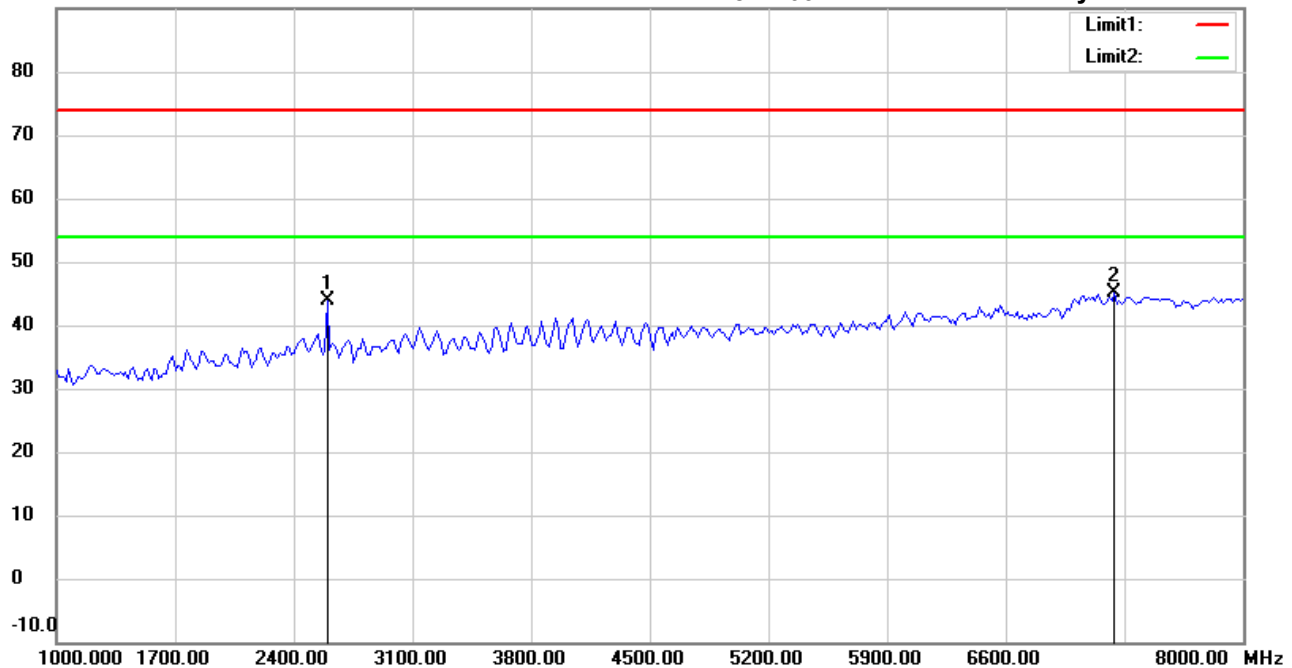
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:09:17 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2442MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2599.198	49.25	peak	-5.25	44.00	74.00	150	200	-30.00	
*	7242.485	41.74	peak	3.29	45.03	74.00	150	155	-28.97	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

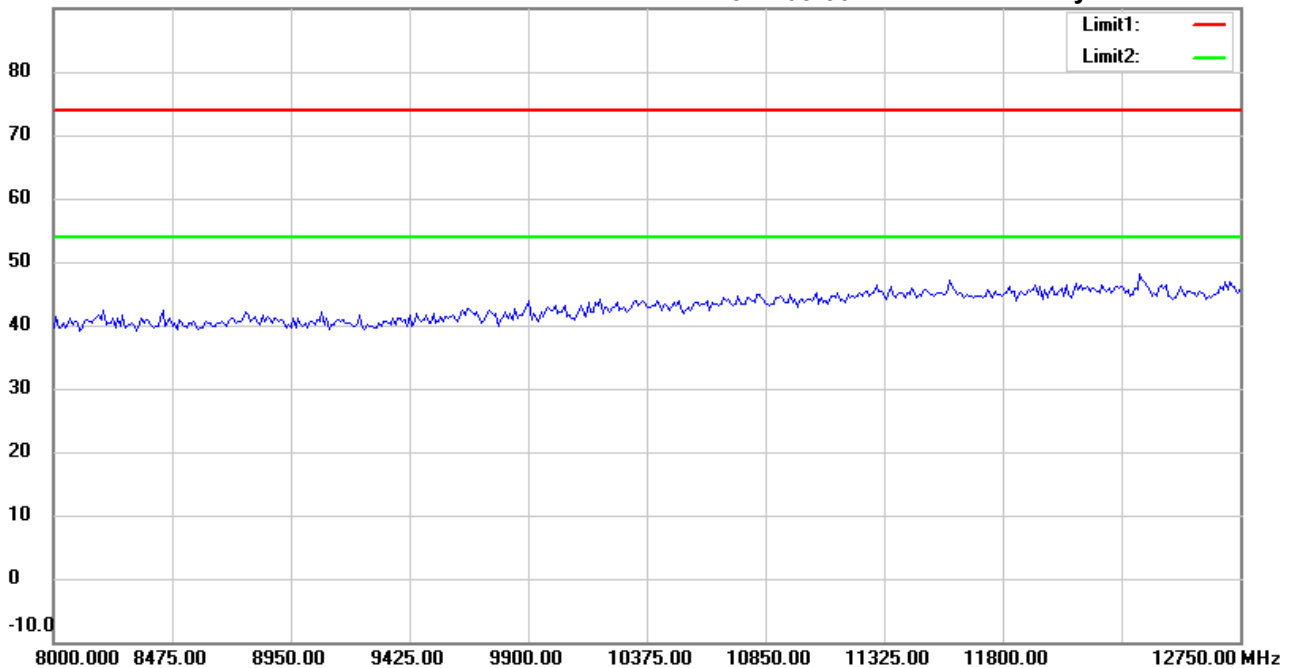
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:08:33 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2442MHz

Note :

Polarization: Horizontal

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

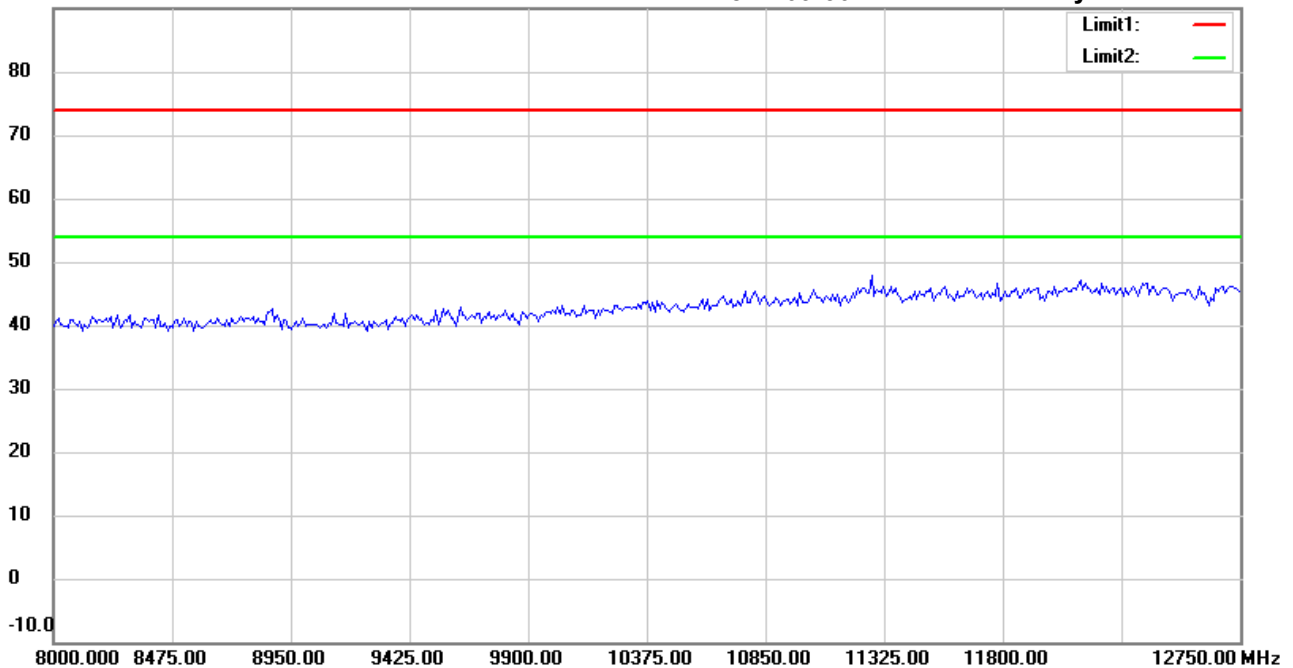
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:09:30 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2442MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

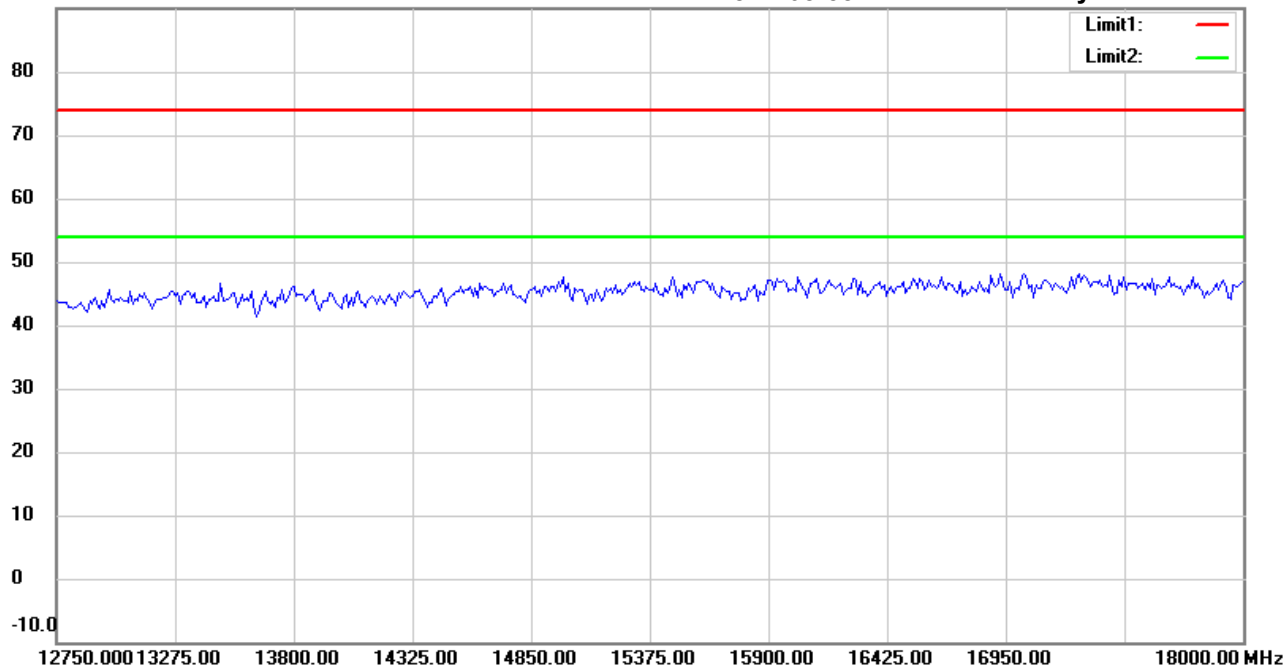
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:08:58 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2442MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

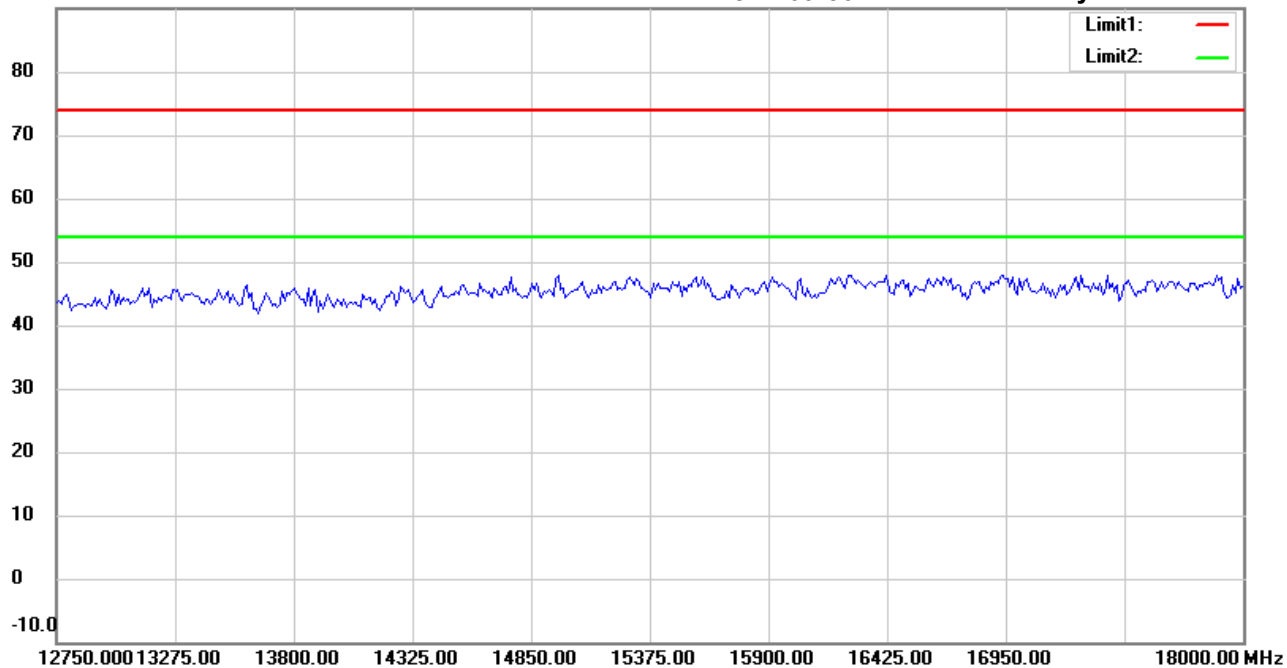
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:09:56 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

Polarization: Vertical

EUT : W6M22001-19616

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : RX 2442MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

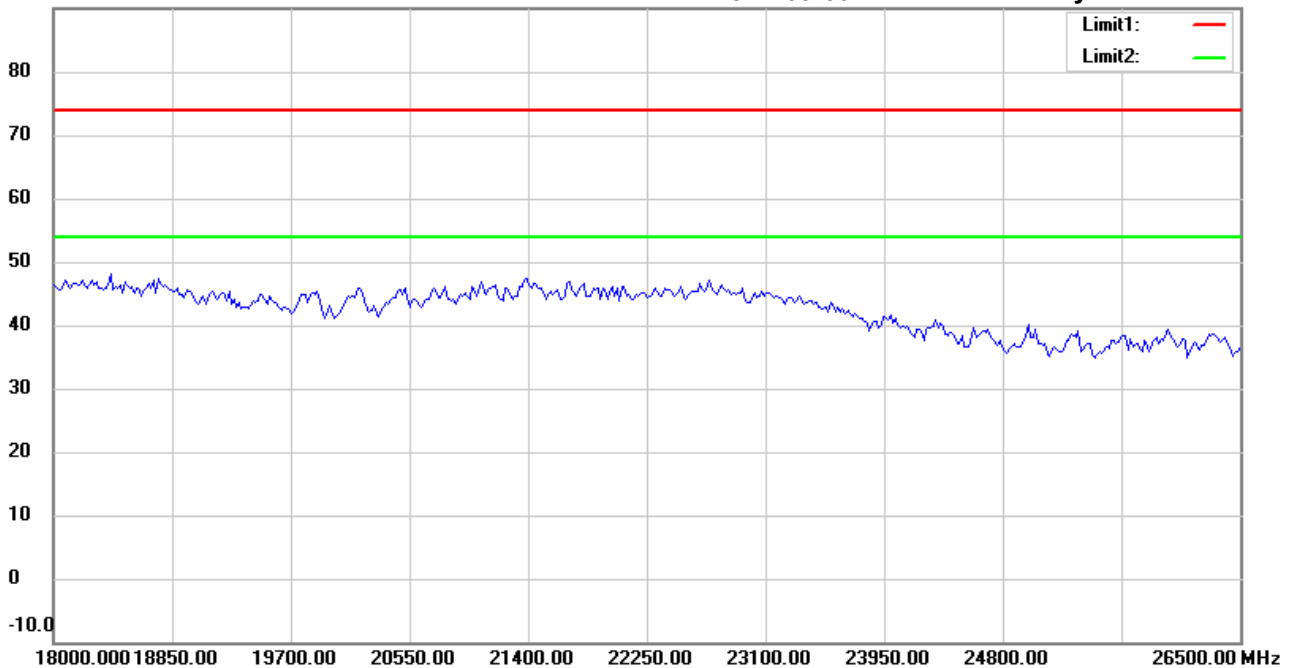
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:09:09 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2442MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

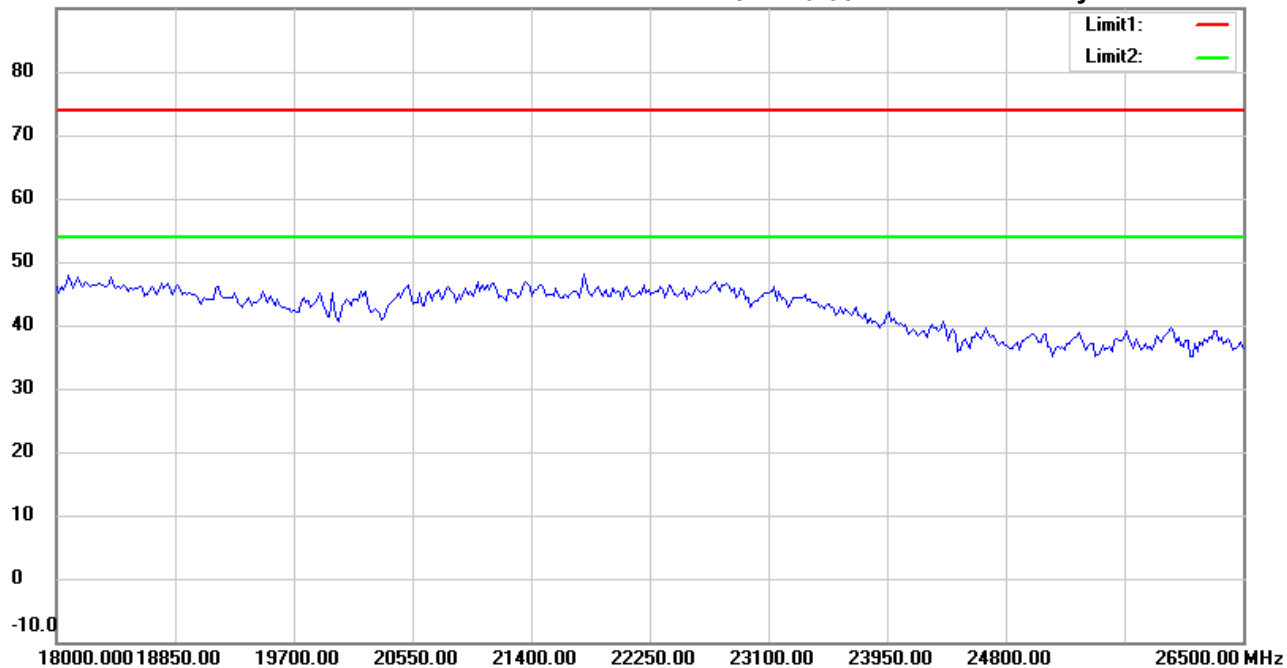
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:10:06 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2442MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #1

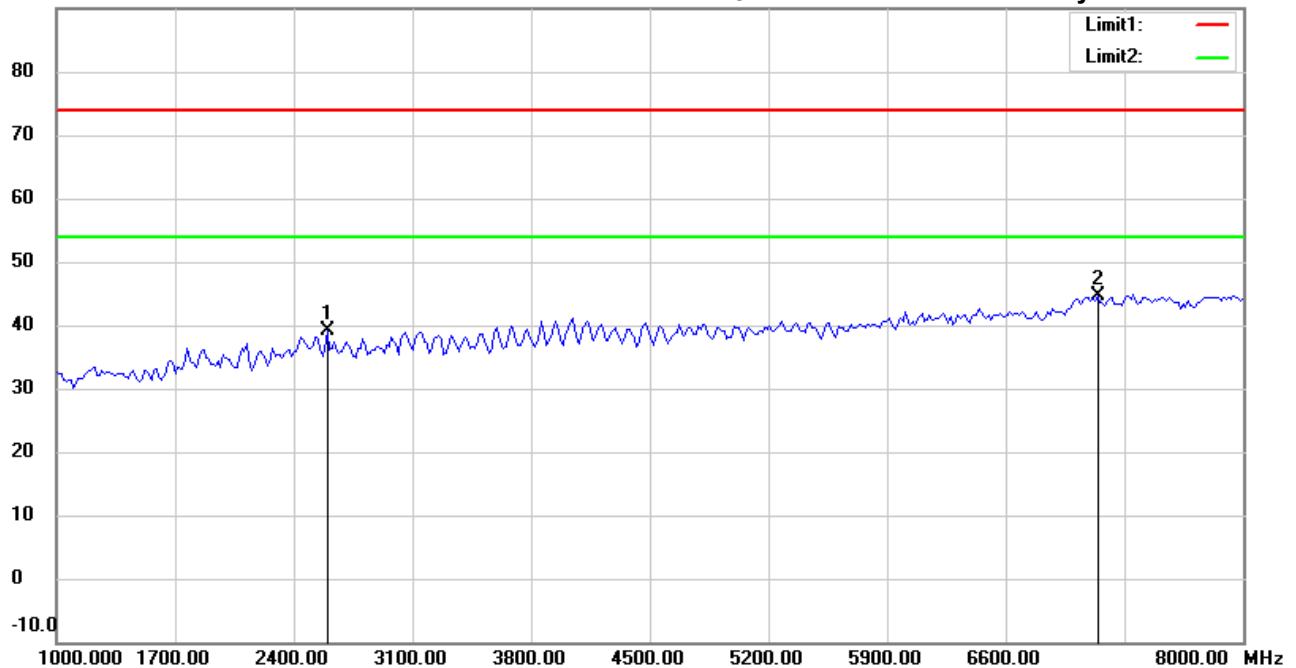
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:11:17 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2599.198	44.38	peak	-5.25	39.13	74.00	150	0	-34.87	
*	7144.288	41.25	peak	3.41	44.66	74.00	150	220	-29.34	

*:Maximum data x:Over limit !:over margin



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8875

Radiated Emission Measurement

Operator: Allen

File : 3

Data : #5

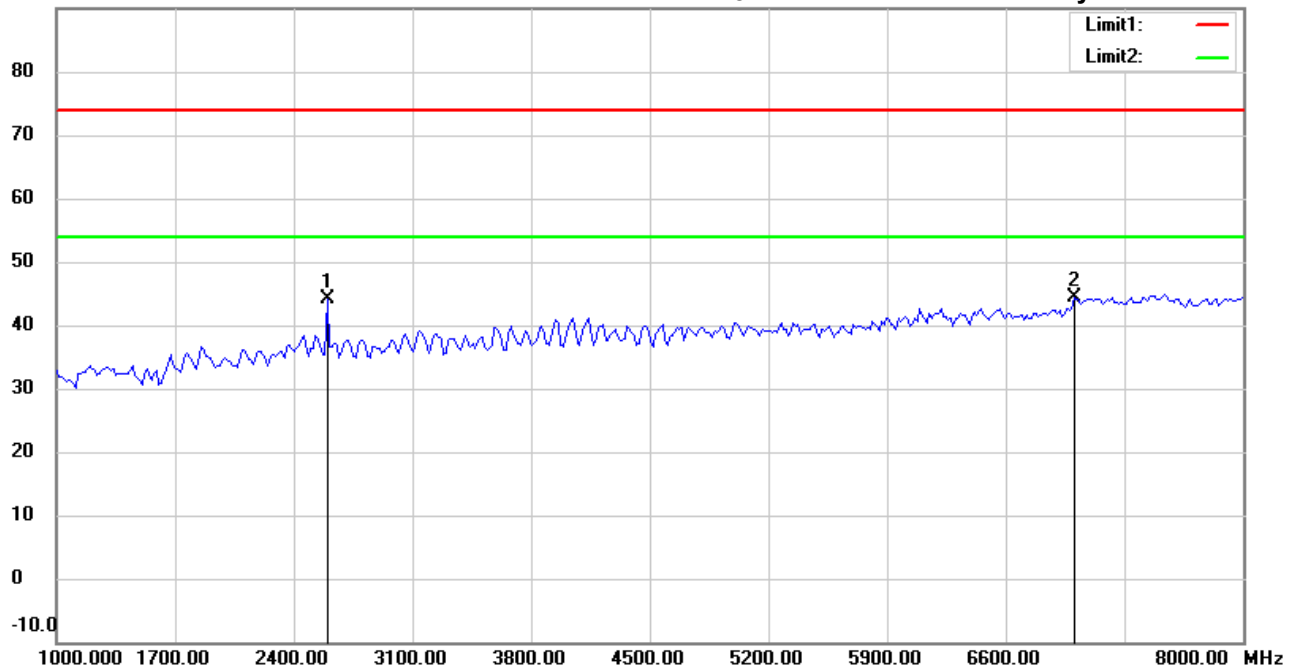
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:12:14 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: **Vertical**

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2599.198	49.33	peak	-5.25	44.08	74.00	150	130	-29.92	
*	7004.008	40.79	peak	3.57	44.36	74.00	150	10	-29.64	

*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #2

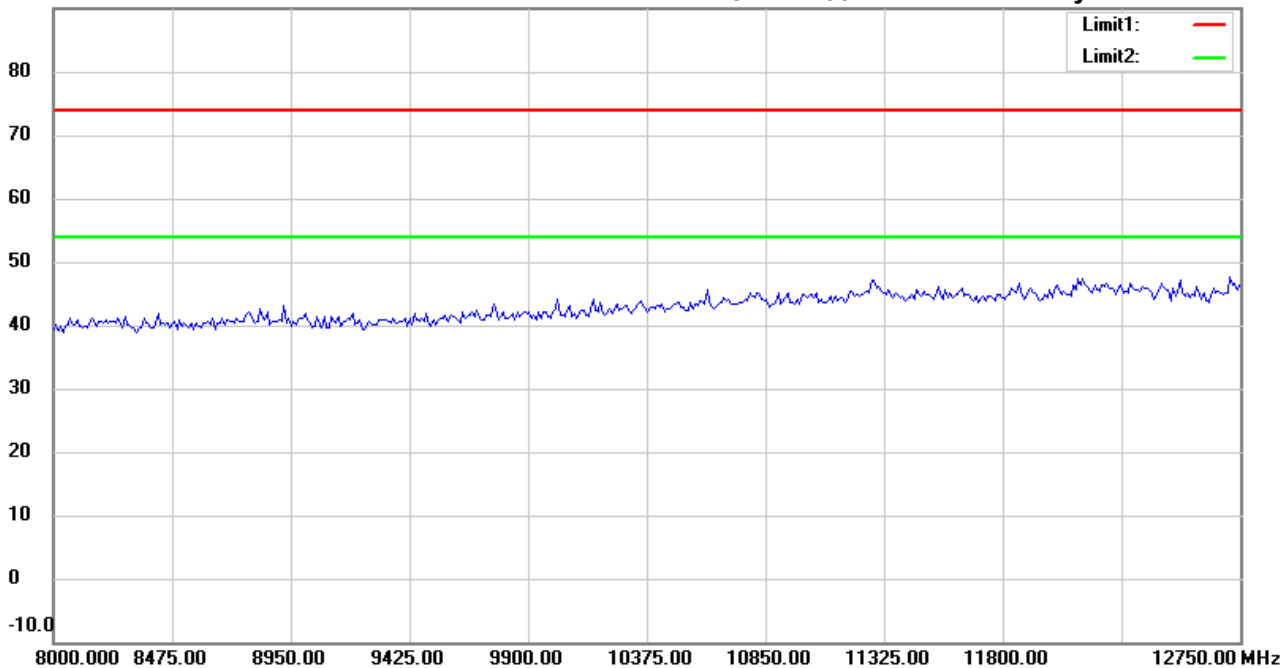
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:11:30 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #6

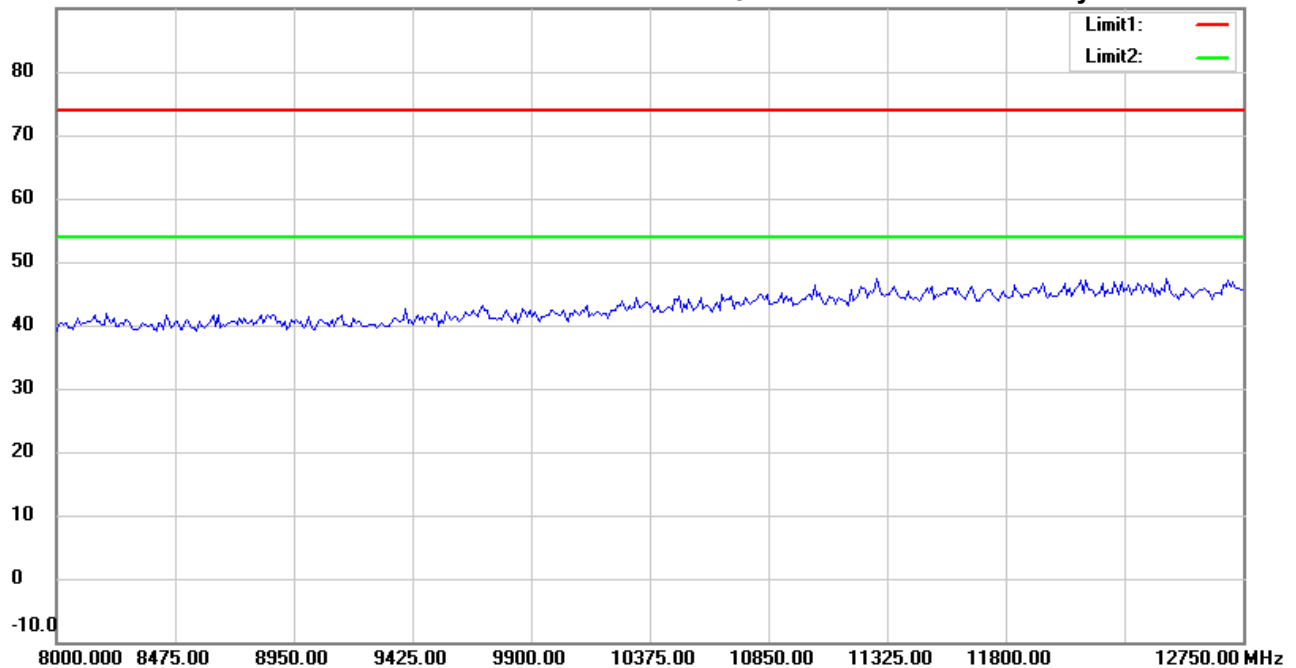
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:12:27 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #3

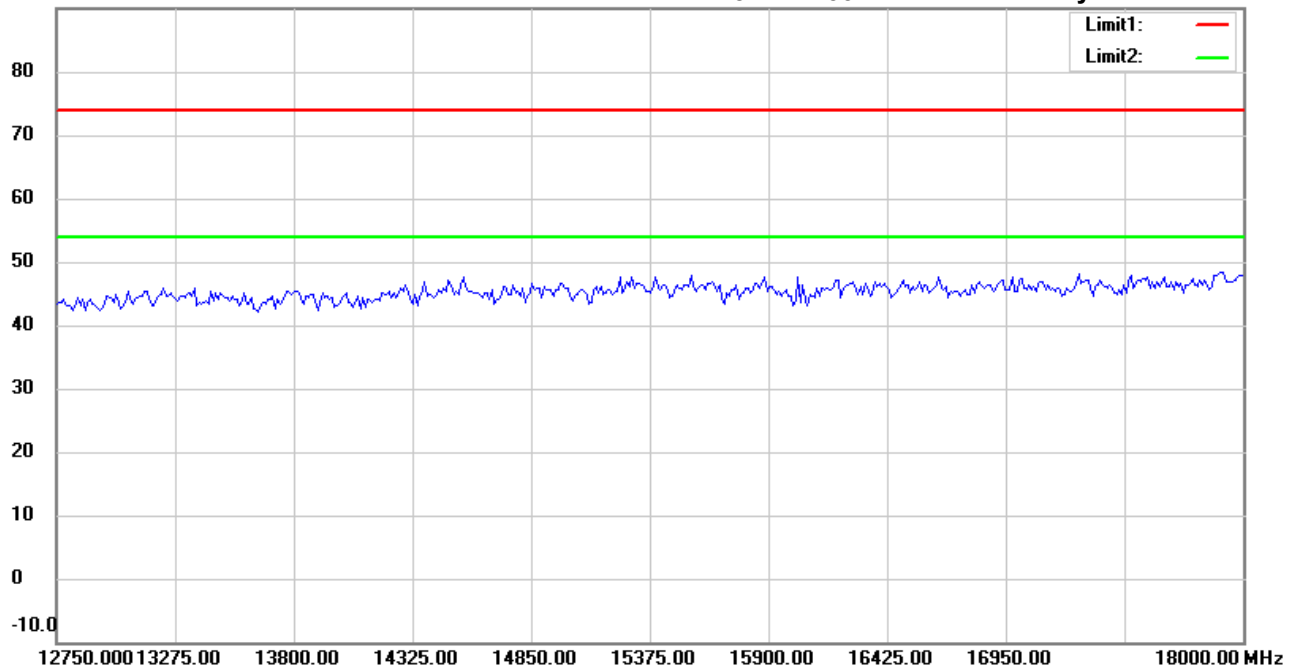
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:11:55 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #7

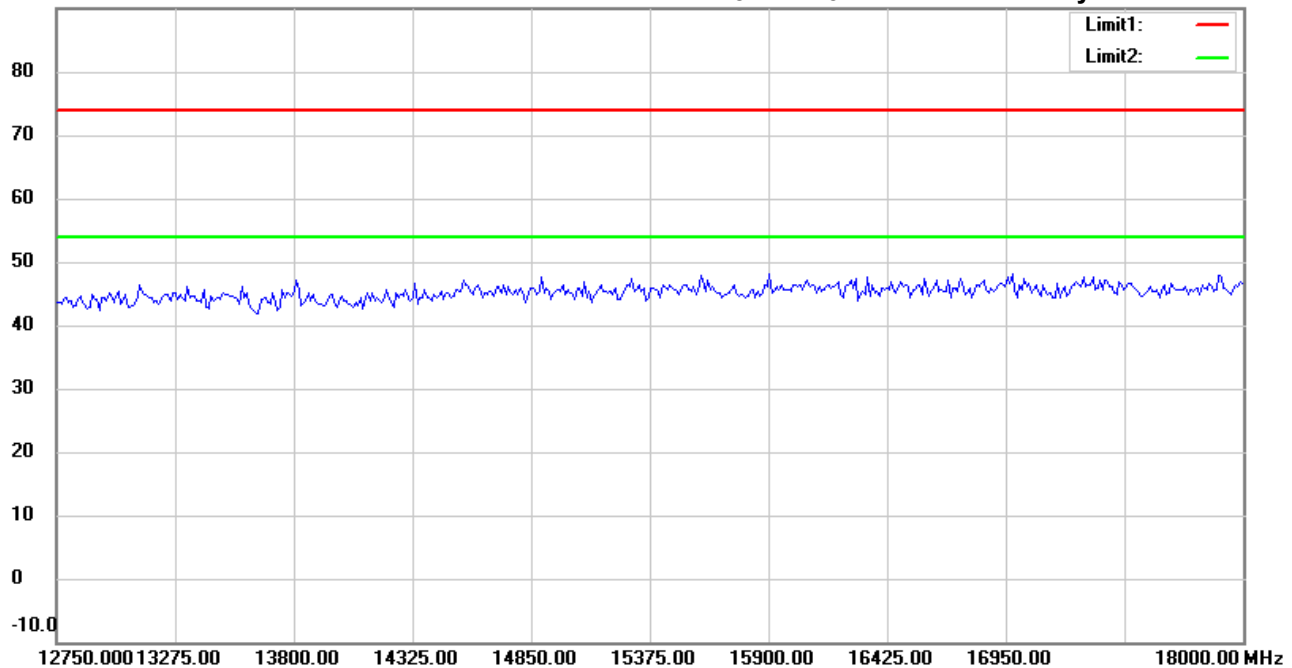
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:12:52 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: Vertical

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #4

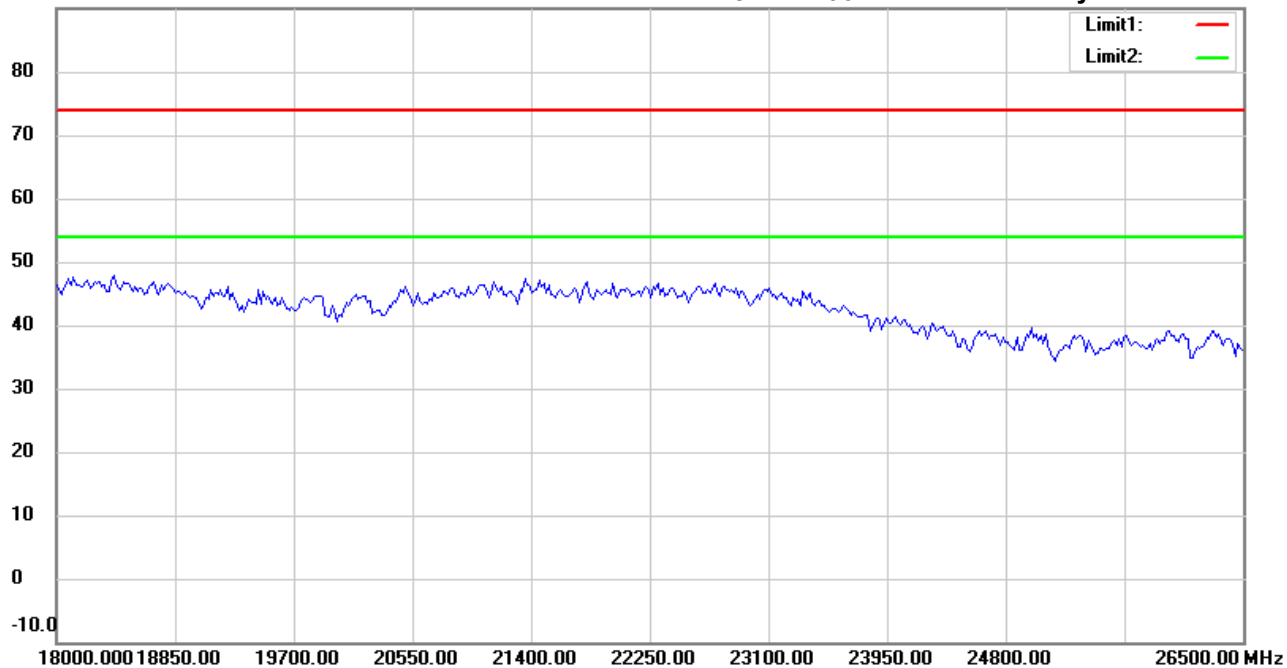
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:12:06 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: *Horizontal*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



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Radiated Emission Measurement

Operator: Allen

File : 3

Data : #8

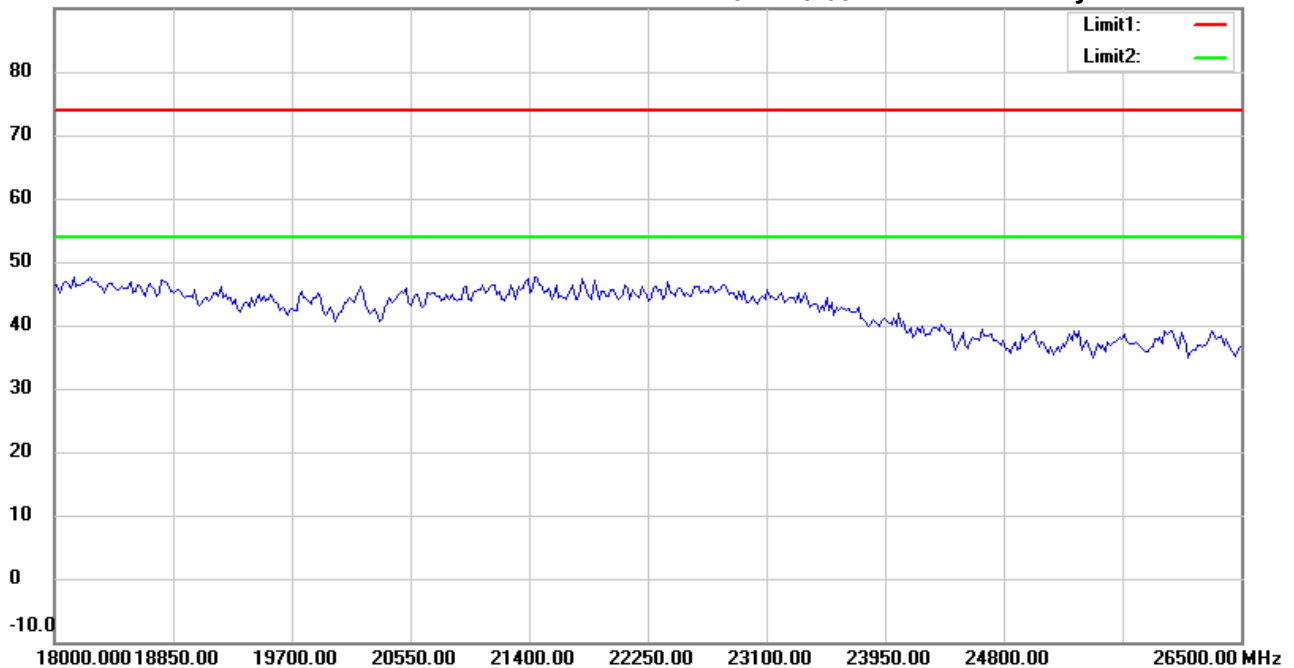
Date: 2/8/2020

Temperature: 21.7 °C

90.0 dBuV/m

Time: 4:13:03 AM

Humidity: 62.4 %



Site : Chamber

Condition : LP0002 3.10節 RE (2.4GHz)

EUT : W6M22001-19616

M/N:

Test Mode : RX 2477MHz

Note :

Polarization: *Vertical*

Power : 3 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin