



客戶名稱 : **SUNMI**
CUSTOMER

Document No.: ENS000209930

Approval Sheet Rev.: P2

Spec. Rev. : P2

承認書

APPROVAL SHEET

產品品名/Product Model No. : **MWA-F-LB-02-392**

料號/ Part No. : **H00000011852**

專案名稱/Project Name: **SD09**

發行日期/ Issue Date : **2025/07/17**

承認日期/ Approved Date :

Approved by customer: (signing or stamping here)

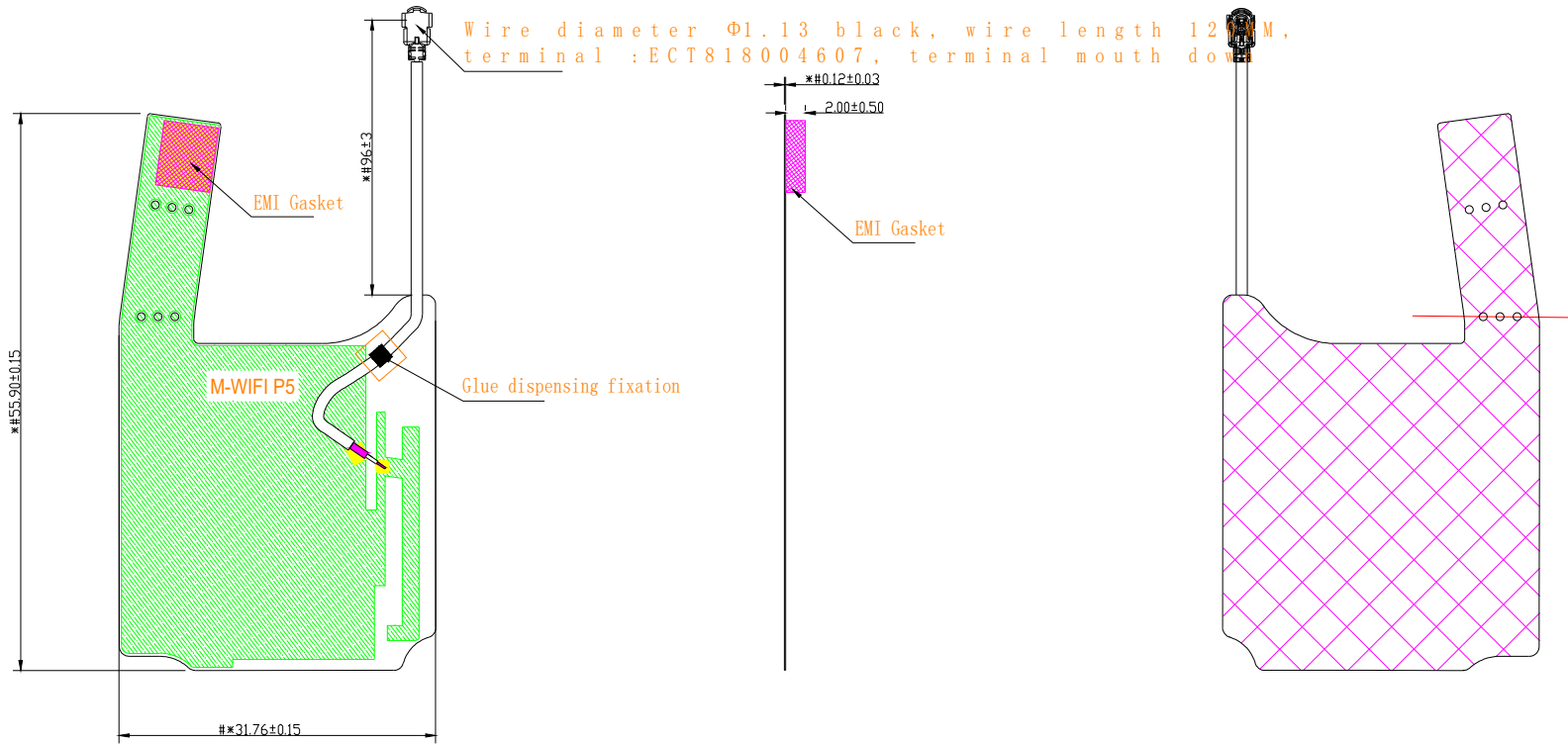


目 录catalogue

- 1、 封面 (cover)
- 2、 目录 (catalogue)
- 3、 2D图纸 (Drawing)
- 4、 规格书 (specification)
- 5、 品质控制计划 (quality control plan)

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Reversion	Engineering Change Description	Date	Owner
P1	首次	2025-07-11	Eason



RoHS 2.0 要求:
镉, Cd
汞, Hg
铅, Pb
六价铬, Cr (VI)
多溴联苯, PBBs
多溴二苯醚, PBDEs
邻苯二甲酸二(2-乙基己基)酯
邻苯二甲酸甲苯基丁酯
邻苯二甲酸二丁酯
邻苯二甲酸二异丁酯
管控标准: 参照《I-WI-21-01 HSF技術標準》
HSF要求:
BR
CL
BR+CL
管控标准: 参照《I-WI-21-01 HSF技術標準》
TSCA
管控标准: 参照《I-WI-21-01 HSF技術標準》

3	EMI Gasket	TAP, conductive foam (wrapped in conductive cloth), 6.5*5.5mm, conductive foam + wrapped in conductive cloth + conductive glue: T=2.0mm	1
2	CABLE	Wire diameter Φ1.13 black, wire length 120MM, terminal : ECT818004607	1
1	FPC	Single panel, ED copper foil 0.5oz, PI 1.0 mil with glue; Surface black ink, white characters; The copper leakage area is treated with gold plating (Ni: 2~6μm, Au: ≥0.03μm)	1
INDEX	PART NAME	MATERIAL DESCRIPTION	QTY

SELECT	V				CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE			禾邦电子（苏州）有限公司 INPAQ Technology Co.,Ltd.		
SPEC. CLASS	A	B	C	D	DRAWN	EASON		SIZE A4	WA-F-LB-02-392	
< 8mm	0.05	0.1	0.1	0.2						
8-25mm	0.08	0.15	0.15	0.3						
25-90mm	0.12	0.2	0.25	0.4	DESIGNED	xiongyong				
80-250mm	0.25	0.3	0.4	0.5						
ANGLE	0.5				APPROVED	Apple				
MATERIAL:	SEE NOTE				 3RD ANGLE		PART No.: 20000101XXXX		DWG. No.: MTS20008XXXX	
FINISH:	SEE NOTE						UNIT		MM	SCALE: 1:1

WA-F-LB-02-392 Specification

1. Explanation of part number :

WA - F - LB - 02 - 392
(1) (2) (3) (4) (5)

(1) Product Type : Wireless Antenna

(2) Material: FPC+Cable

(3) Frequency : 2400~2483MHz, 5150~7125MHz

(4) Coaxial Cable Type : 02

(5) Suffix :392

2. Storage Condition:

Temperature -40 to +70°C
Humidity 65±20 % RH

3. Operating Condition:

Temperature -40 to +70°C
Humidity 65±20 % RH

4. Electrical Specification :

Those specifications were specially defined for SD09 model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
WIFI-1	2400~2483MHz · 5150~7125MHz

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SCALE : UNIT : mm

DRAWN BY : Eason CHECKED BY : Apple

DESIGNED BY:Xiongyong APPROVED BY : Apple

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4-2. Impedance

50 ohm nominal

4-3. Matching circuit

None

4-4. VSWR

4-4.1 Measuring Method

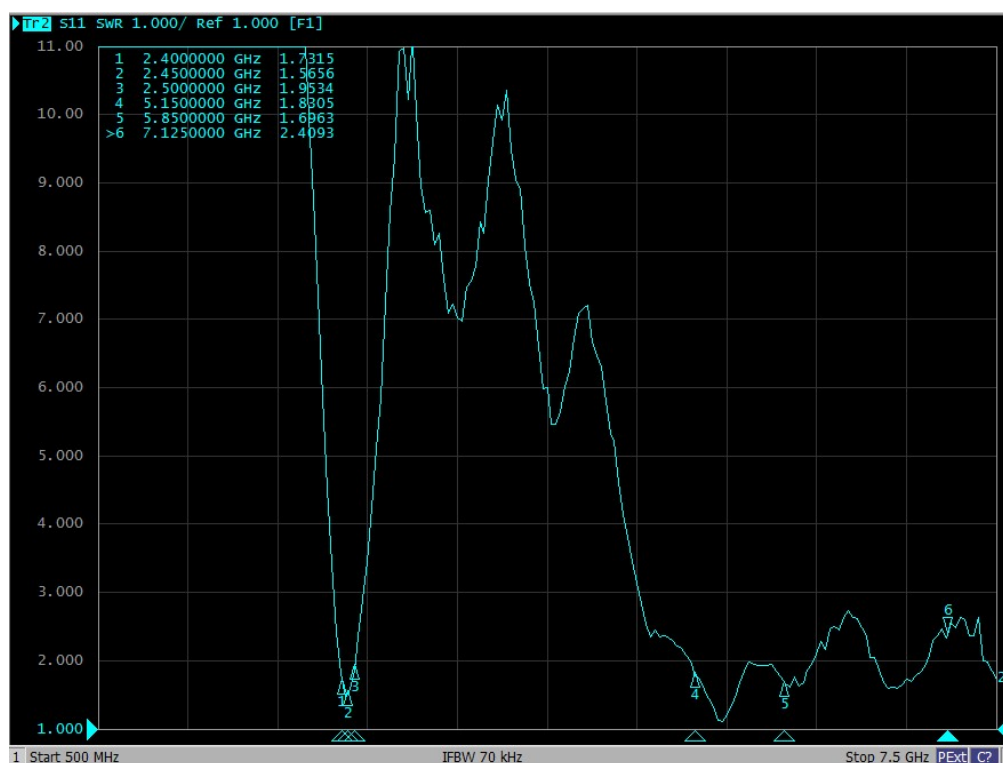
1.A 50Ω coaxial cable is connected to the antenna. Then this cable is connected

to a network analyzer to measure the VSWR

2. Keeping this jig away from metal at least 20cm

4-4.2 Measurement frequency points and VSWR value

Frequency (Unit MHz)	2400	2450	2500	5150	7125
VSWR	1.7	1.5	1.9	1.8	2.4



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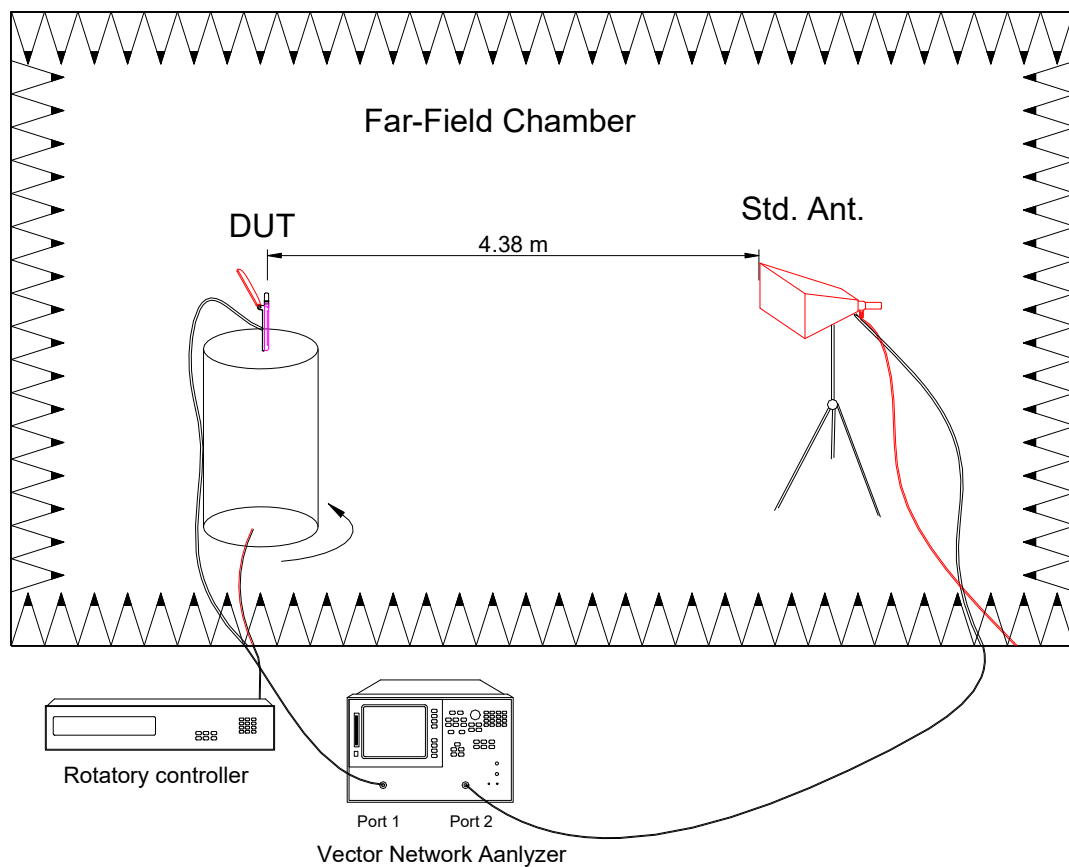
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4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data



4-5.2 Chamber definition

1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m

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4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

4-5.3 Efficiency and Gain

Antenna gain is marked (dBi) and is based on STANDARD HORN antenna. The data shows Peak Gain and Average Gain.

➤ WIFI

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-3.05	49.55	3.39
2410	-2.83	52.12	3.73
2420	-2.64	54.45	4.01
2430	-2.58	55.21	3.85
2440	-2.59	55.08	3.99
2450	-2.68	53.95	3.82
2460	-2.72	53.46	3.88
2470	-2.9	51.29	3.6
2480	-3.02	49.89	3.46
2490	-3.25	47.32	3.08
2500	-3.42	45.5	2.72

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
5150	-3.02	49.89	4.12
5250	-2.83	52.12	3.43
5350	-2.56	55.46	4.17
5450	-2.82	52.24	4.99
5550	-2.73	53.33	4.35
5650	-2.45	56.89	4.17
5750	-2.19	60.39	2.93
5850	-2.76	52.97	2.64
5950	-3.1	48.98	3.81
6050	-3.24	47.42	3.41
6150	-3	50.12	3.16
6250	-3.02	49.89	3.43
6350	-3.34	46.34	3.55
6450	-3.75	42.17	2.74
6550	-3.88	40.93	1.44
6650	-3.61	43.55	3.14
6750	-3.21	47.75	4.38
6850	-2.81	52.36	4.3
6950	-2.99	50.23	3.73
7050	-3.54	44.26	3.88
7150	-3.79	41.78	4.04

➤ 2D Radiation Pattern Results

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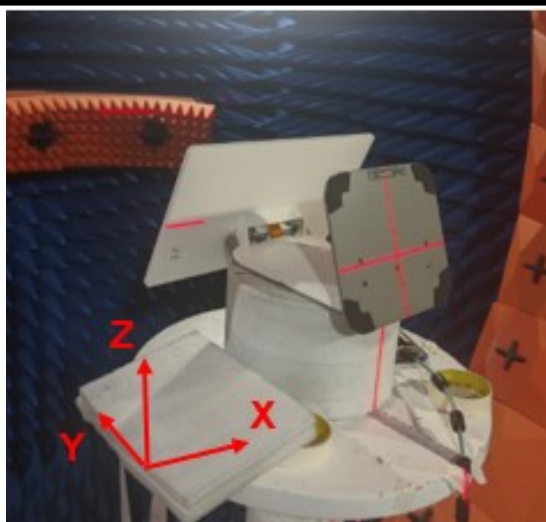
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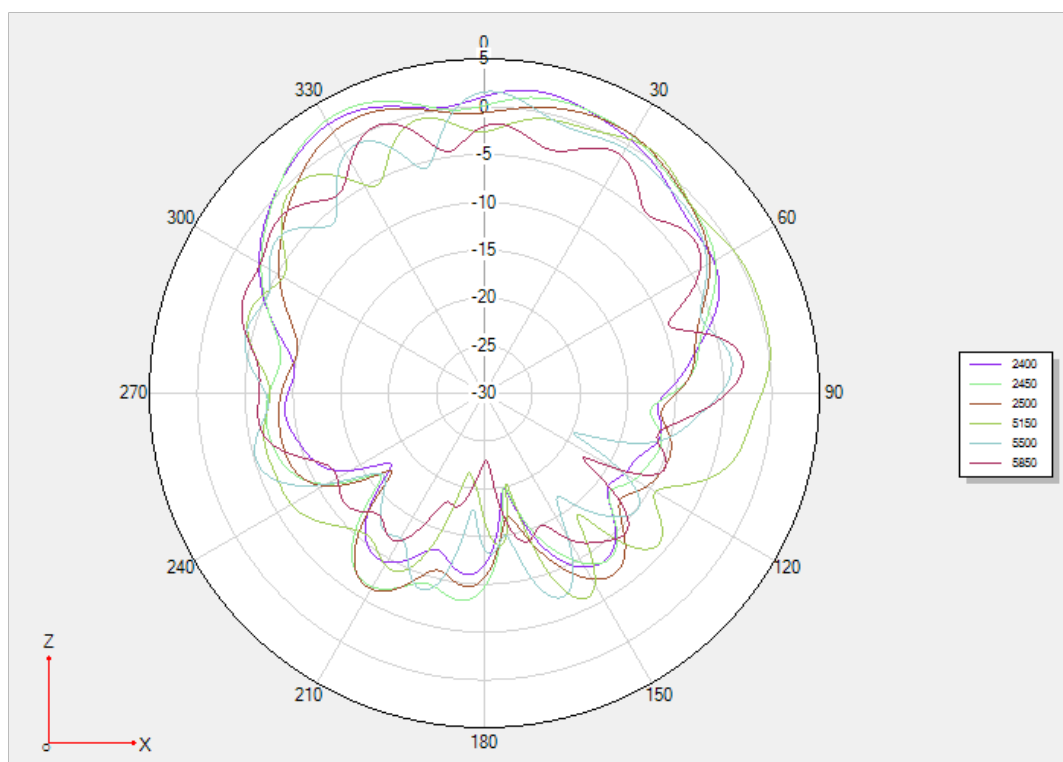
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XZ-E1-plane



XZ-E2-plane

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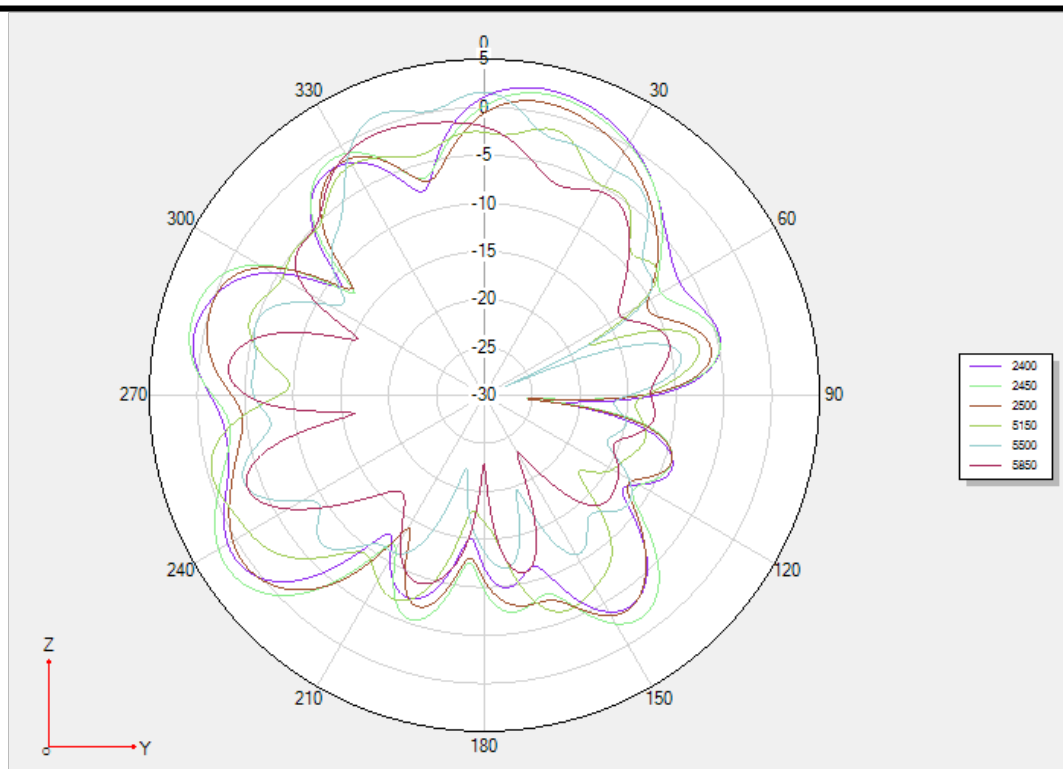
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XY-H-plane

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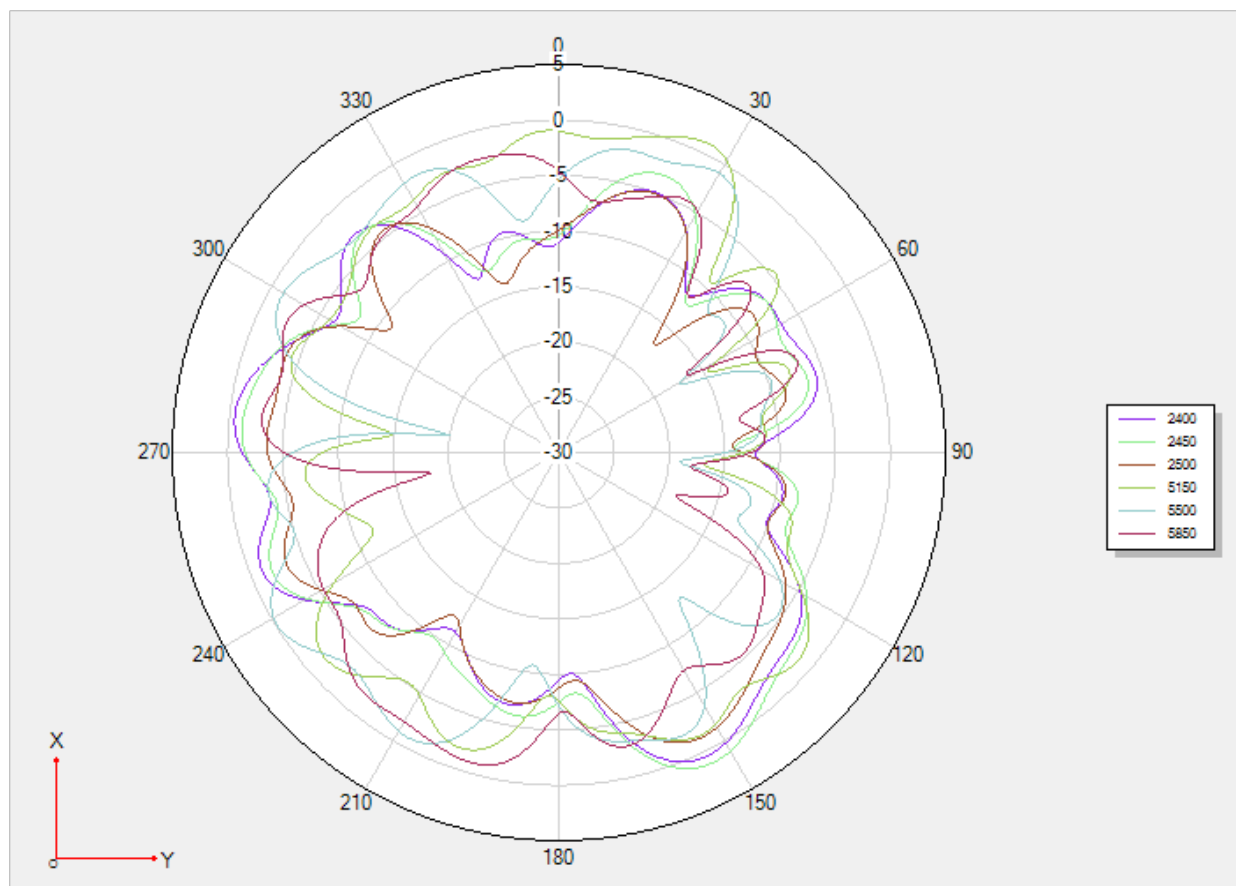
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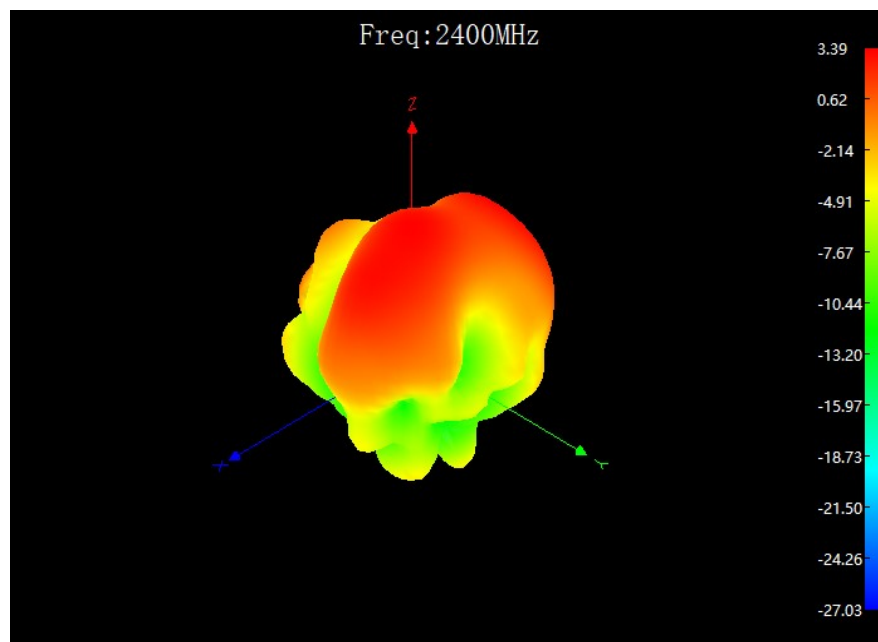
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➤ **3D Radiation Pattern Results**



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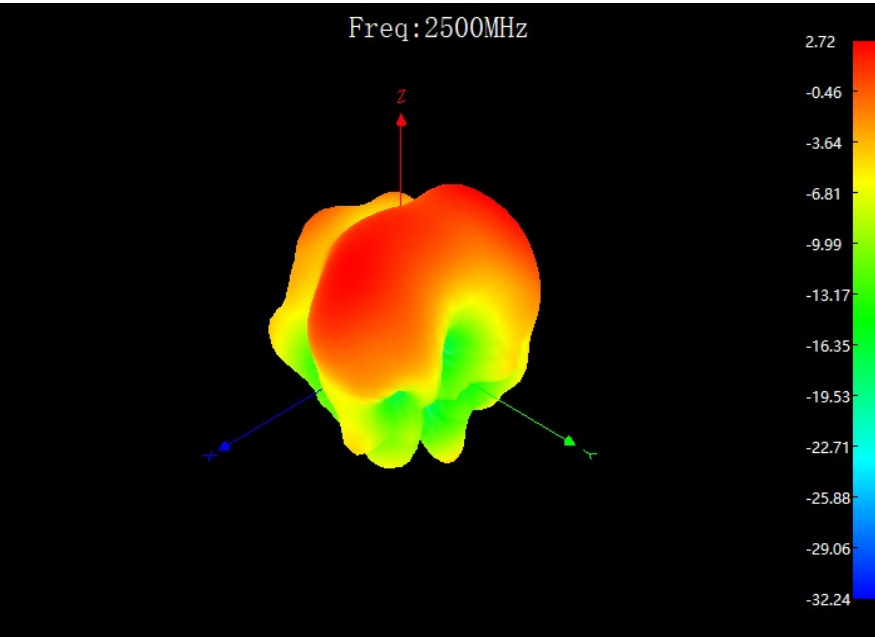
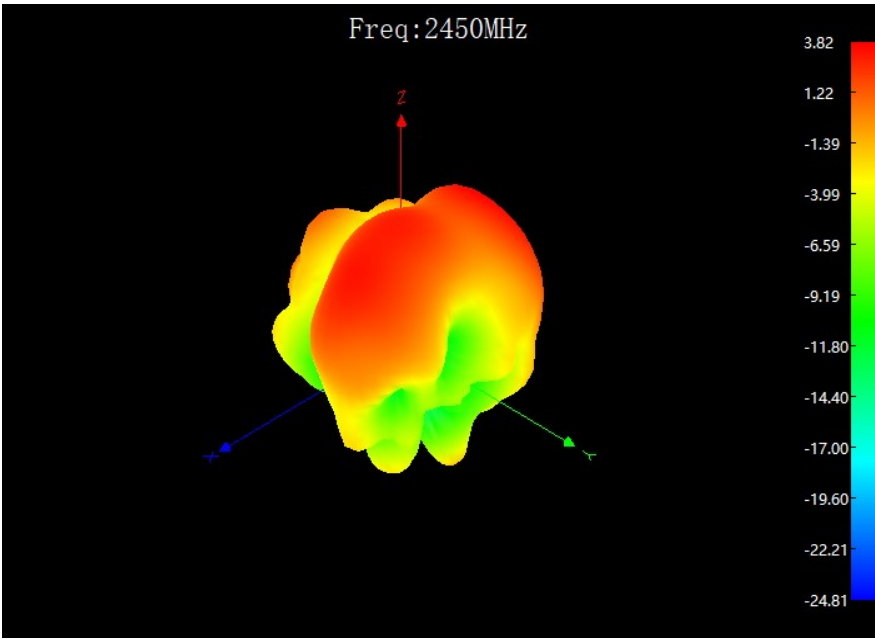
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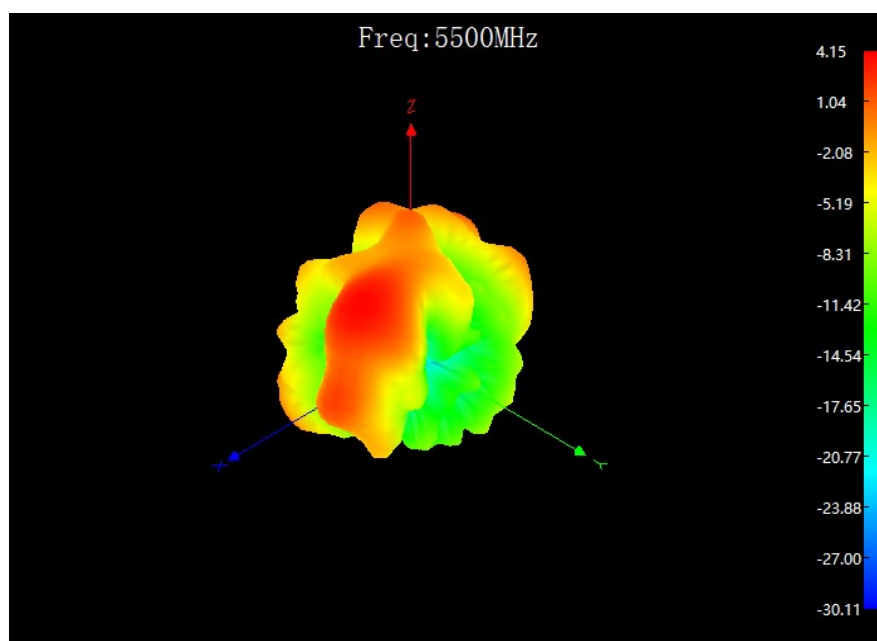
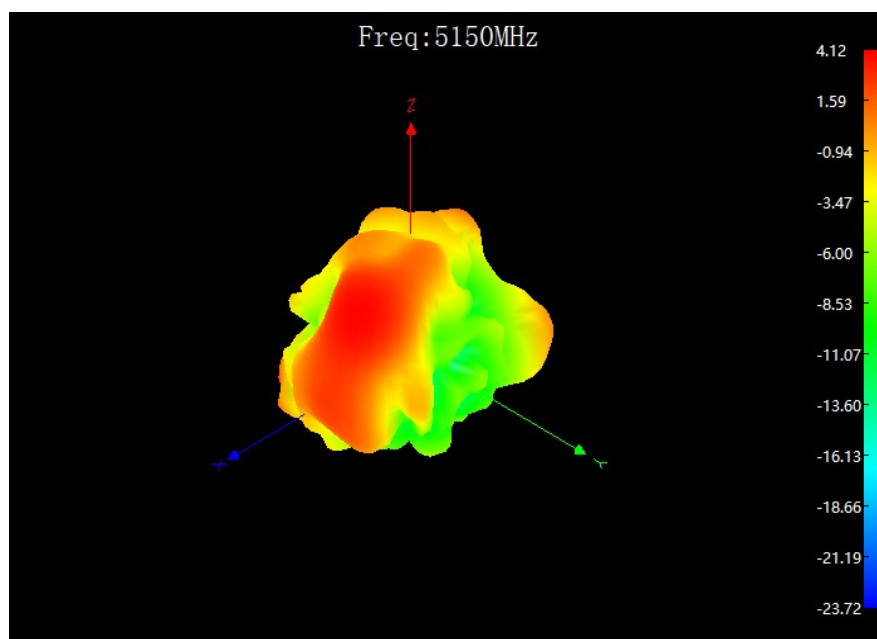
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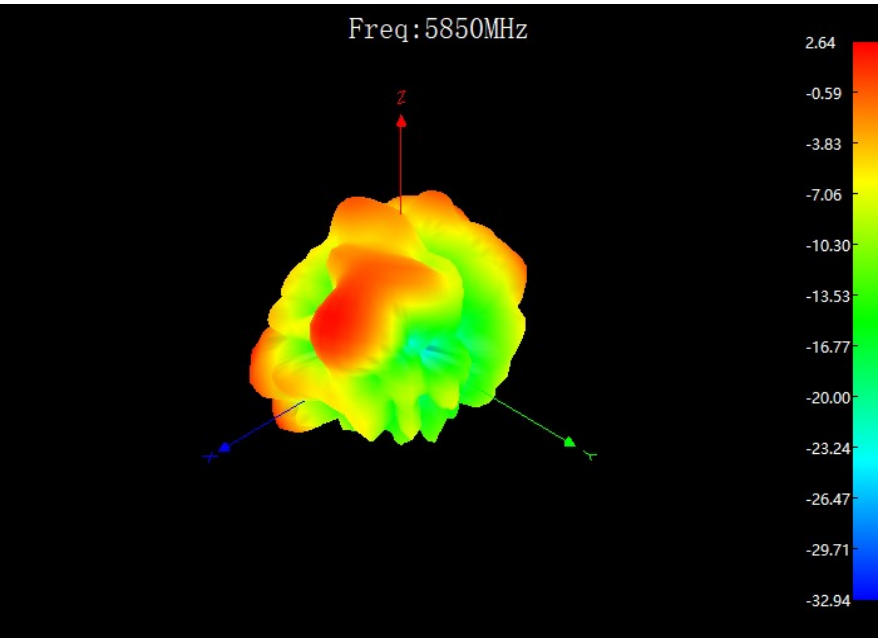
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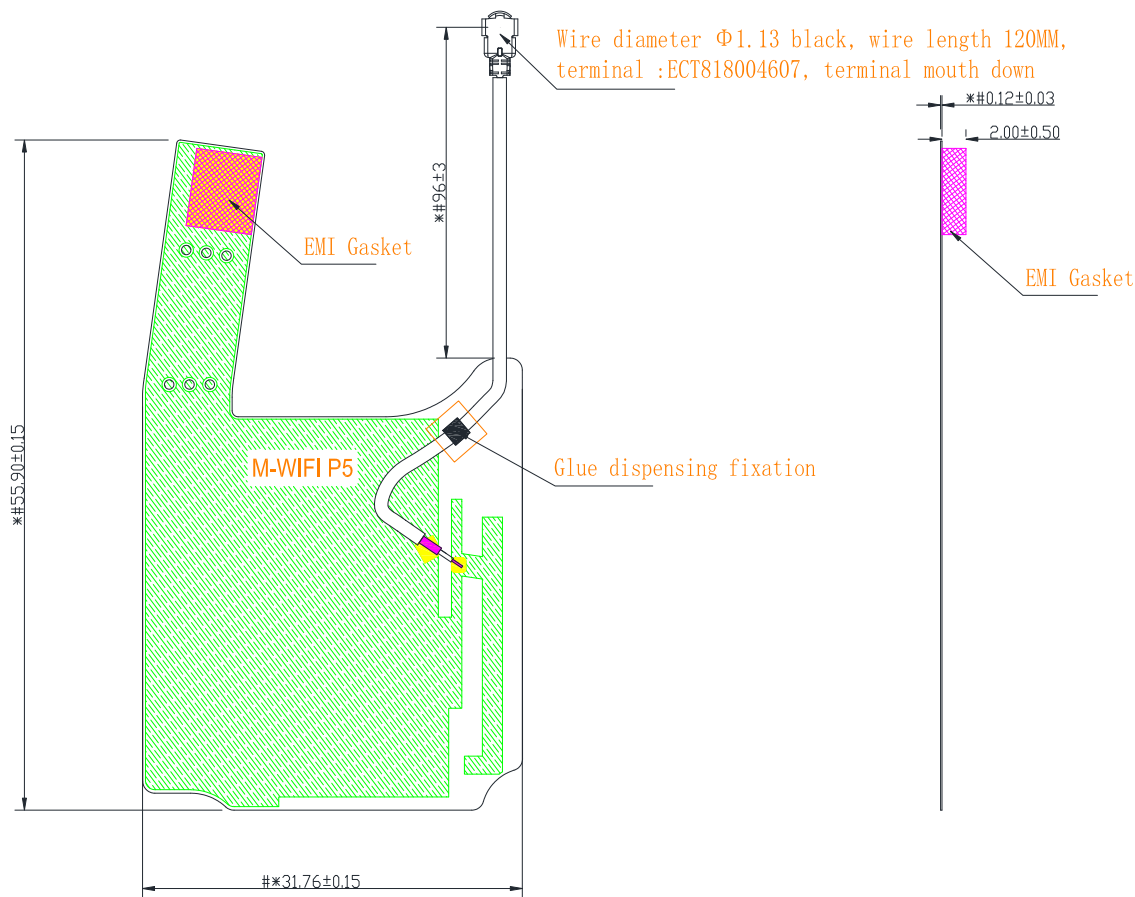


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5. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing Figure 5-1-1



3	EMI Gasket	TAP, conductive foam (wrapped in conductive cloth),6.5*5.5mm, conductive foam + wrapped in conductive cloth + conductive glue: T=2.0mm	1
2	CABLE	Wire diameter Φ1.13 black, wire length 120MM, terminal :ECT818004607	1
1	FPC	Single panel, ED copper foil 0.5oz, PI 1.0 mil with glue; Surface black ink, white characters; The copper leakage area is treated with gold plating (Ni: 2~6 μm, Au: ≥0.03 μm)	1
INDEX	PART NAME	MATERIAL DESCRIPTION	Q'TY

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管制计划

(CONTROL PLAN)

原型品(PT)		量產前(PP)		V	生產(MP)		聯絡人: 英昌东 (Key Contact)		E-mail: Eason.ying@inpaqgp.com				日期(原版): A5 Date(Orig.) 2022/10/26		頁次 Page.	
管制計劃編號: CPN000005360 (Control Plan Number)				版別: A6 (Rev.)		電話: 0512-65719988-38403 (Phone)		傳真: 0512-65719988 (Fax)				日期(更版): A6 Date(Rev.) 2024/11/23		1 of 8		
專案/產品編號: GSM FPCB系列 (Part Number)						(Project leader): 曹吉 小組成員(Core Team):		PE: 曹吉、汤俊杰 QE: 吴巍君 制造: 时丕强				客戶工程承認/日期(如有要求) (Customer Engineering Approval/Date(If Req'd))				
專案/產品名稱: GSM FPCB系列 (Part Name)						供應商/工廠承認/日期: (Supplier/Plant Approval/Date)						客戶品質承認/日期(如有要求) (Customer Quality Approval/Date(If Req'd))				
供應商/工廠: (Supplier/Plant) Inpaq (Suzhou) Electronic Co., Ltd 禾邦电子(苏州)有限公司				代碼: (Supplier Code)		其它承認/日期(如有需要): (Other Approval/Date(If Req'd))				客戶其它承認/日期(如有要求) (Customer Other Approval/Date(If Req'd))						
製造流程/編號 Part/ Process Number	製程作業名稱敘述 Process Name/Operation Description	材料名稱 BOM Material	生產設備 /治具/模具 Machine Device/Jig /Tools For Mfg.	管制特性 Characteristics			管制等級 Class	產品或製程 規格/公差 Product /Process / Specification / Tolerance	方法 Methods				處置計劃 Reaction Plan			
									評估方式 Evaluation Technique		抽 樣 Sample			管制方式或記錄 Control Method		
				編號 No.	產品 Product	製程 Process			監測 Monitor	量測 Measurement	數量 Size	頻率 Freq				
P-01	Incoming inspection 進料檢驗 IQC	All material s 所有物料	——	1	appearanc e 外观	——	——	Incoming Inspection Base & Material Specification &SIP 進料檢查基準書&材 料規格書&SIP	——	Visual (10x magnifying glass, CCD depends on the product) 目視 (10倍放大鏡 、CCD具體依產 品而定)	MIL-STD-1916 Level II		Incoming Inspection Record Form 進料檢驗記錄表 H-FM-10-37	Opening <Non-conforming Product Notification> 开立 <不合格品通知單> I-FM-13-01		
				2	size 尺寸	——	——	Material Specifications 材料規格書	——	Vernier caliper/quadr atic element/steel ruler, etc. (depending on the product) 游標卡尺/二次 元/鋼直尺等 (具體依產品 而定)	MIL-STD-1916 Level II		Incoming Inspection Record Form 進料檢驗記錄表 H-FM-10-37	Opening <Non-conforming Product Notification> 开立 <不合格品通知單> I-FM-13-01		

				3	Material properties 材料特性	——	——	Incoming Inspection Benchmark & Material Specification 進料檢查基準書&材料規格書	——	Incoming Material Inspection Standard Document 進料檢查基準書		Incoming Inspection Record Form 進料檢驗記錄表 H-FM-10-37	Opening 《Non-conforming Product Notification》 开立 《不合格品通知單》 I-FM-13-01
				4	HSF test HSF測試	——	——	Refer to the "UPY-6800 Analyzer Operating Method" H-WI-10-49 参考《UPY-6800分析儀作業辦法》H-WI-10-49	——	UPY	Refer to the "UPY-6800 Analyzer Operating Method" H-WI-10-49 参考《UPY-6800分析儀作業辦法》H-WI-10-49	Incoming Inspection Record Form 進料檢驗記錄表 H-FM-10-37	Opening 《Non-conforming Product Notification》 开立 《不合格品通知單》 I-FM-13-01
P-02	Warehousing 倉儲	All materials 所有物料	——	1	carry 搬運	——	——	Methods of handling, storage and preservation 搬運、儲存与保存作業辦法 I-WI-15-01	——	——	——	——	Opening 《Abnormal Notification Form》 开立《异常通知單》 I-FM-09-20
				2	stockpile 儲存	——	——	Methods of handling, storage and preservation 搬運、儲存与保存作業辦法 I-WI-15-01	——	——	——	——	Opening 《Abnormal Notification Form》 开立《异常通知單》 I-FM-09-20
				3	Temperature & Humidity 溫度&濕度	——	——	Methods of handling, storage and preservation 搬運、儲存与保存作業辦法 I-WI-15-01	——	Thermohygrometer 溫濕度計	2次	Day	Temperature and humidity record sheet 溫濕度記錄表 H-FM-10-03
嚴重特性 (C.C) : !! D				重要特性 (S.C) : #				I-FM-04-07					

I-FM-04-07

製造流程/編號 Part/ Process Number	製程作業名稱敘述 Process Name/Operation Description	材料名稱 BOM Material	生產設備 /治具/模具 Machine Device/Jig /Tools For Mfg.	管制特性 Characteristics			管制等級 Class	產品或製程 規格/公差 Product /Process / Specification / Tolerance	方法 Methods					處置計劃 Reaction Plan	
									評估方式 Evaluation Technique		抽 樣 Sample		管制方式或記錄 Control Method		
				編號 No.	產品 Product	製程 Process			監測 Monitor	量測 Measurement	數量 Size	頻率 Freq			
P-04	Electrical test (if requested) 電性測試 (如有要求)	Antenna semi- finished products 天线半成品	Electrical inspection test load/fixtu re 電性檢驗測 試載/治具	1	——	Compariso n of electrica l standard parts 电性标准 件比对	——	——	Electrica l standard parts 电性标准 件	——	1	Before the initial set- up/paramete r change/prod uct changeover 初始调机设 置/参数变更 /产品换线前	Network Analyzer Calibration Record Sheet 网络分析仪校正记录表 H-FM-09-290	Adjust the machine 调整机器 H-FM-09-43	
				2	Electrica l 电性	——	#	Refer to the work instructions for each product (Depends on the product) 参照各产品作业指导 书 (具体依产品而定)	——	Network analyzers 网络分析仪	5pcs	First/last piece 首/末件	"Preparation of the second part - first article inspection record form" 《制二部-首件检查记录表》 H-FM-09-88	scrap 报废 H-WI-09-2775	
					Continuit y test 导通测试	——	#	Refer to the work instructions for each product (Depends on the product) 参照各产品作业指导 书 (具体依产品而定)	——	multimeter 万用表	5pcs	First/last piece 首/末件	"Preparation of the second part - first article inspection record form" 《制二部-首件检查记录表》 H-FM-09-88	scrap 报废 H-WI-09-2775	
				3		——	Life control of test probes, etc 测试探针 等寿命管 控	——	100K	Form records 表单记录	——	1次	End of lot	Test the service life statistics table of consumables 测试耗材使用寿命统计表 H-FM-09-349	scrap 报废 H-WI-09-2775
					嚴重特性 (C.C) : !! 重要特性 (S.C) : #										

製造流程/編號 Part/ Process Number	製程作業名稱敘述 Process Name/Operation Description	材料名稱 BOM Material	生產設備 /治具/模具 Machine Device/Jig /Tools For Mfg.	管制特性 Characteristics			管制等級 Class	產品或製程 規格/公差 Product /Process / Specification / Tolerance	方法 Methods					處置計劃 Reaction Plan
									評估方式 Evaluation Technique		抽 樣 Sample		管制方式或記錄 Control Method	
				編號 No.	產品 Product	製程 Process			監測 Monitor	量測 Measurement	數量 Size	頻率 Freq		
P-05	appearance 外觀	Antenna semi- finished products 天線半成品	——	1	appearanc e 外觀	——	——	The appearance standard shall be implemented with reference to the "GSM Finished Product Inspection SIP and Appearance Golden Sample"; Number (S191) 外觀標準參照《GSM 成品檢驗SIP及外觀 Golden Sample》執 行； 編號〈S191〉	——	目視	5pcs	First/last piece 首/末件	"Preparation of the second part - first article inspection record form" 《制二部-首件检查记录表》 H-FM-09-88	Repair/Scrapping 維修/报废 H-WI-09-2775
										all	lot	Manufacturing Process Sheets 製造流程單 I-FM-08-01		
P-06	FQC1	Antenna semi- finished products 天線半成品	——	1	Electrica l 電性	——	——	Refer to the work instructions for each product (Depends on the product) 參照各產品作業指導 書 （具體依產品而定）	——	Network analyzers (depending on the product) 网络分析仪 （具体依产品 而定）	MIL-STD-1916 Level II		FQC electrical test record form FQC電性檢驗记录表 H-FM-10-26	Opening 〈Non-conforming Product Notification〉 开立 〈不合格品通知單〉 I-FM-13-01
				2	appearanc e 外觀	——	——	Refer to the FQC1 operating method 參照FQC1作業办法 H-WI-10-09	——	Visual or CCD (depending on the product) 目視或CCD（具 体依产品而 定）	MIL-STD-1916 Level II		FQC Inspection Record Form FQC檢驗记录表 H-FM-10-33	Opening 〈Non-conforming Product Notification〉 开立 〈不合格品通知單〉 I-FM-13-01
				3	size 尺寸	——	——	Refer to the size mechanism diagram of the working specification 參照工規尺寸机构图	——	Vernier caliper, steel ruler, two- dimensional (depending on the product) 游标卡尺, 钢 尺, 二次元 （具体依产品 而定）	5	lot	FQC Dimensional Inspection Record Form FQC尺寸檢驗记录表 H-FM-10-27	Opening 〈Non-conforming Product Notification〉 开立 〈不合格品通知單〉 I-FM-13-01
嚴重特性（C.C）： !!			重要特性（S.C）： #			I-FM-04-07								

製造流程/編號 Part/ Process Number	製程作業名稱敘述 Process Name/Operation Description	材料名稱 BOM Material	生產設備 /治具/模具 Machine Device/Jig /Tools For Mfg.	管制特性 Characteristics			管制等級 Class	產品或製程 規格/公差 Product /Process / Specification / Tolerance	方法 Methods					處置計劃 Reaction Plan
									評估方式 Evaluation Technique		抽 樣 Sample		管制方式或記錄 Control Method	
				編號 No.	產品 Product	製程 Process			監測 Monitor	量測 Measurement	數量 Size	頻率 Freq		
P-07	Finished product packaging 成品包裝	Finished antennas 天线成品	——	1	Packing specifica tions 包裝規格	——	——	Please refer to the production specifications for details 具体参照生产规格	——	Visual 目视	5pcs	First piece 首件	“Preparation of the second part – first article inspection record form” 《制二部-首件检查记录表》 H-FM-09-88	Heavy industry 重工 H-WI-09-140
											All	Lot	Manufacturing Process Sheets 制造流程单 I-FM-08-01	
			——	2	quantity 数量	——	——	Please refer to the production specifications for details 具体参照生产规格	——	Visual 目视	All	Lot	Manufacturing Process Sheets 制造流程单 I-FM-08-01	Heavy industry 重工 H-WI-09-140
											——	3	Label (content, location) Label (内 容、位 置)	
All	Lot	Manufacturing Process Sheets 制造流程单 I-FM-08-01												
嚴重特性 (C.C) : !! 重要特性 (S.C) : #				I-FM-04-07										

嚴重特性 (C.C) : !! D	重要特性 (S.C) : #	I-FM-04-07
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嚴重特性 (C.C) : !! D	重要特性 (S.C) : #	I-FM-04-07
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嚴重特性 (C.C) : !! D	重要特性 (S.C) : #		I-FM-04-07
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