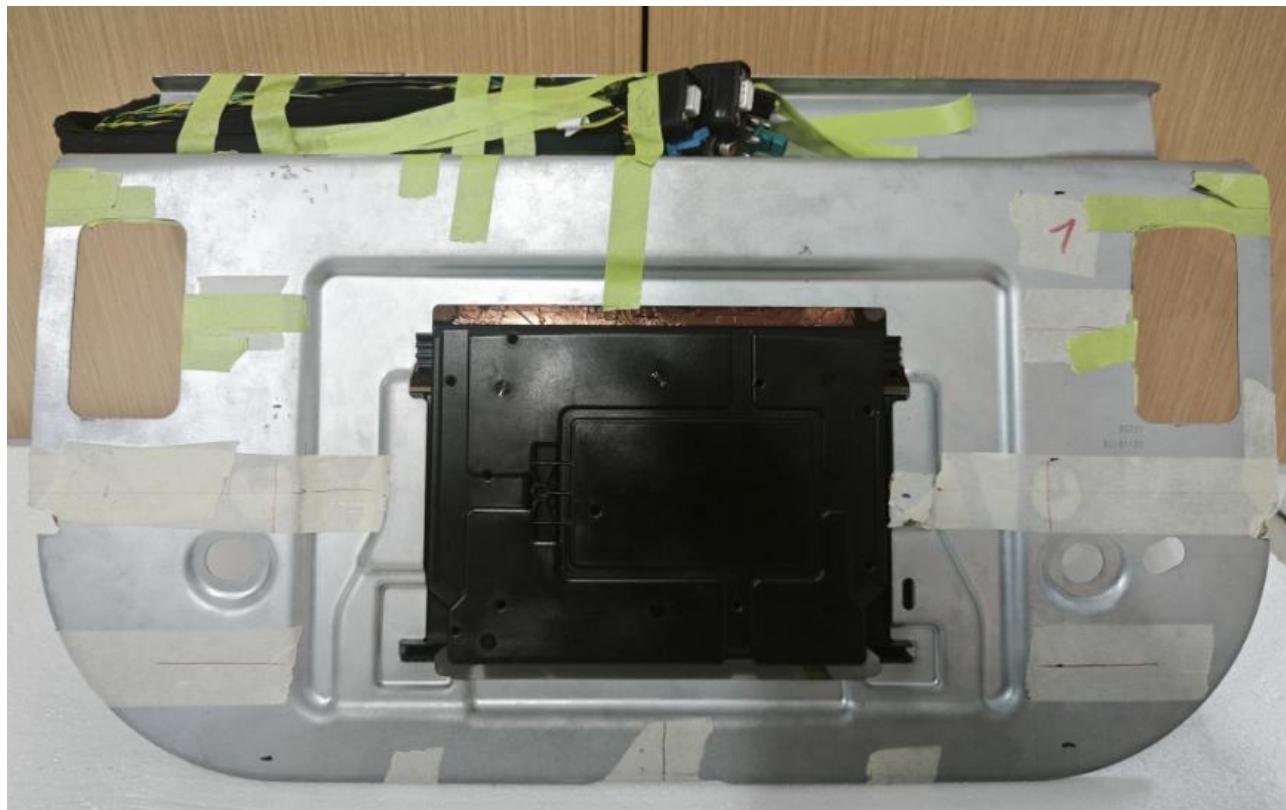


ANTENNA SPECIFICATION

TCAM3 Top cover



Manufacture	Huizhou Speed AutoIN Technology Co., Ltd.
Address	138 Huize Avenue, Dongjiang High tech Zone, Shuikou Town, Huicheng Dis, Huizhou Guangdong CN
Antenna model	F-0L-Q3-0002-001-K0
Harman Part number	4114238

ANTENNA SPECIFICATION

I . Mechanical Specifications

Antenna Dimension	250.94(D) x 163(W) x 30(H) mm
Weight	250g

1.LTE1

II . Electrical Specifications

Frequency Range	617MHz ~960MHz	1710MHz ~2690MHz	3300MHz ~5000MHz
Avg. Gain	Min -3.0dBi	Min -2.3dBi	Min -3.0dBi
V.S.W.R	≤ 2.5	≤ 2.5	≤ 2.5
Radiation	Omni		
Polarization	Linear		
Impedance	50Ω		

2.LTE2

II . Electrical Specifications

Frequency Range	617MHz ~960MHz	1710MHz ~2690MHz	3300MHz ~5000MHz
Avg. Gain	Min -4.1dBi	Min -3.2dBi	Min -2.6dBi
V.S.W.R	≤ 4.6	≤ 4.0	≤ 2.5
Radiation	Omni		
Polarization	Linear		
Impedance	50Ω		

3.LTE3

II . Electrical Specifications

ANTENNA SPECIFICATION

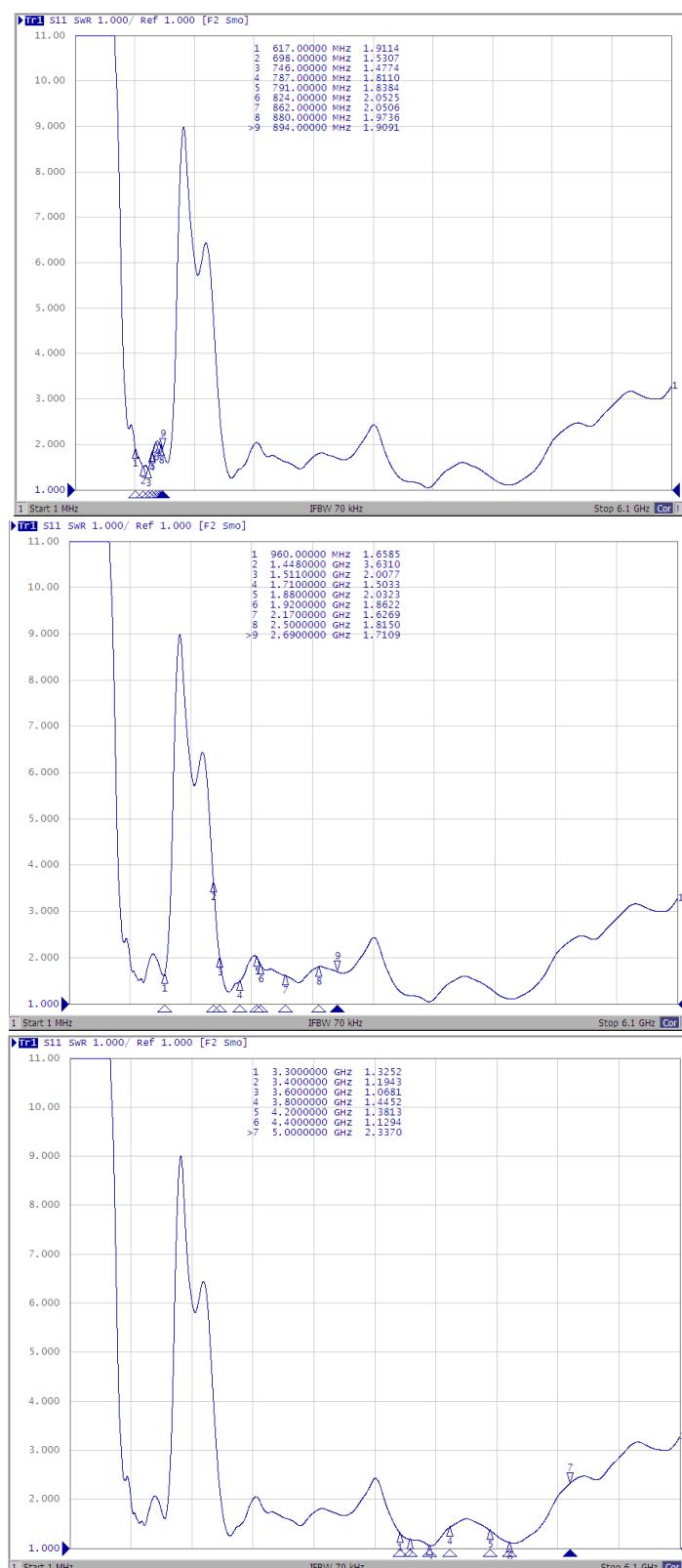
Frequency Range	1710MHz ~2690MHz	3300MHz ~5000MHz
Avg. Gain	Min -2.8dBi	Min -2.2dBi
V.S.W.R	≤ 3.0	≤ 2.5
Radiation	Omni	
Polarization	Linear	
Impedance	50Ω	

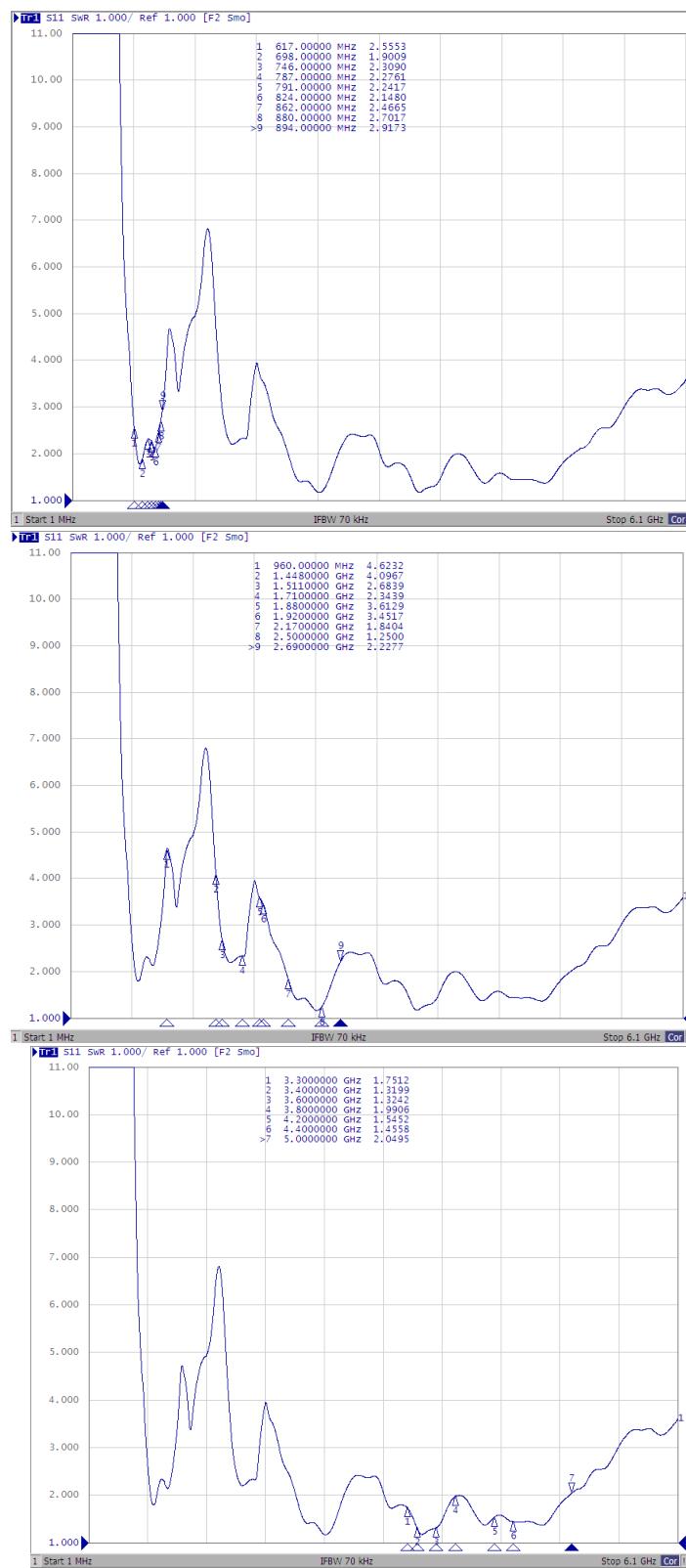
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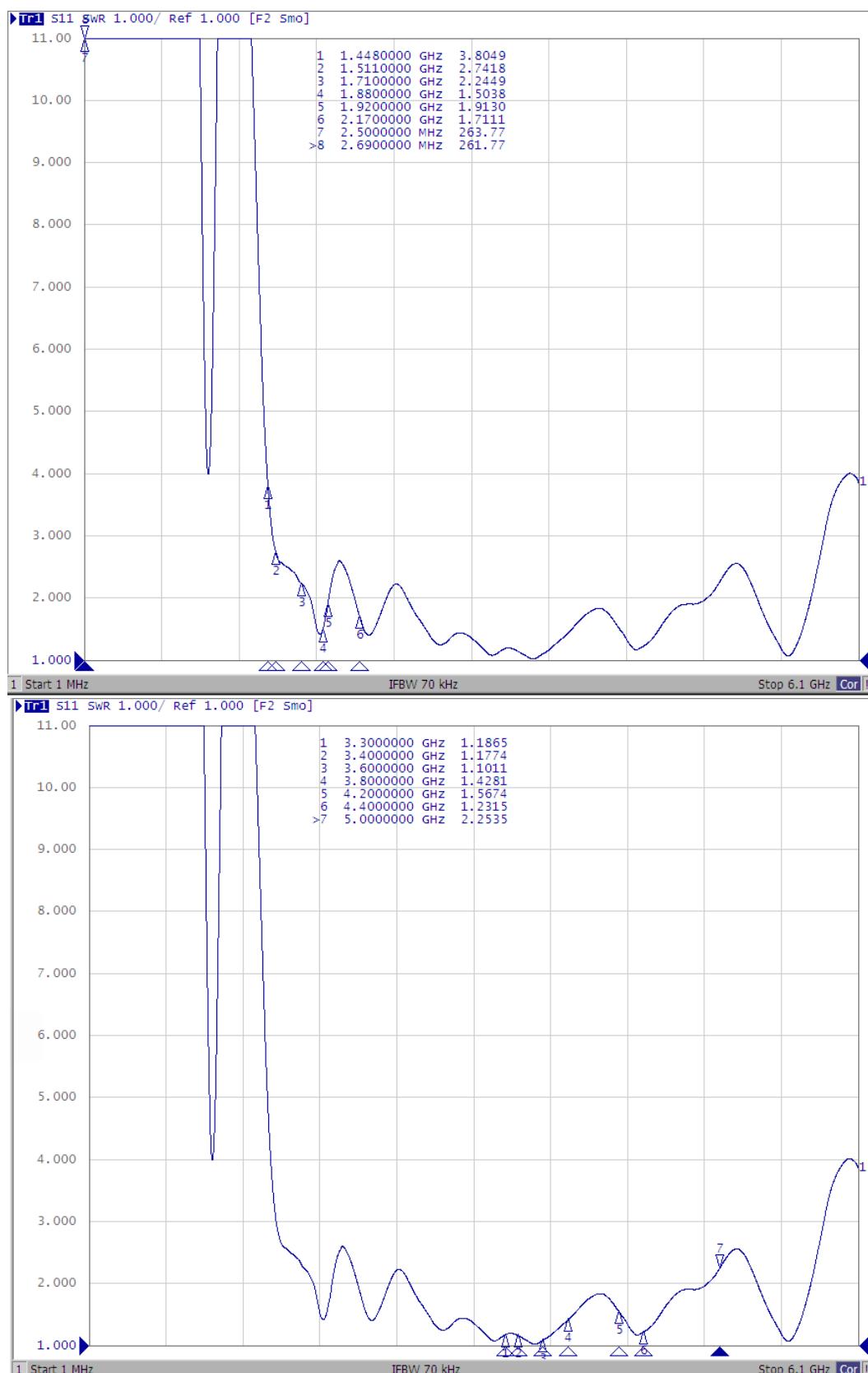
II . Electrical Specifications		
Frequency Range	1710MHz ~2690MHz	3300MHz ~5000MHz
Avg. Gain	Min -3.0dBi	Min -2.7dBi
V.S.W.R	≤ 3.5	≤ 2.5
Radiation	Omni	
Polarization	Linear	
Impedance	50Ω	

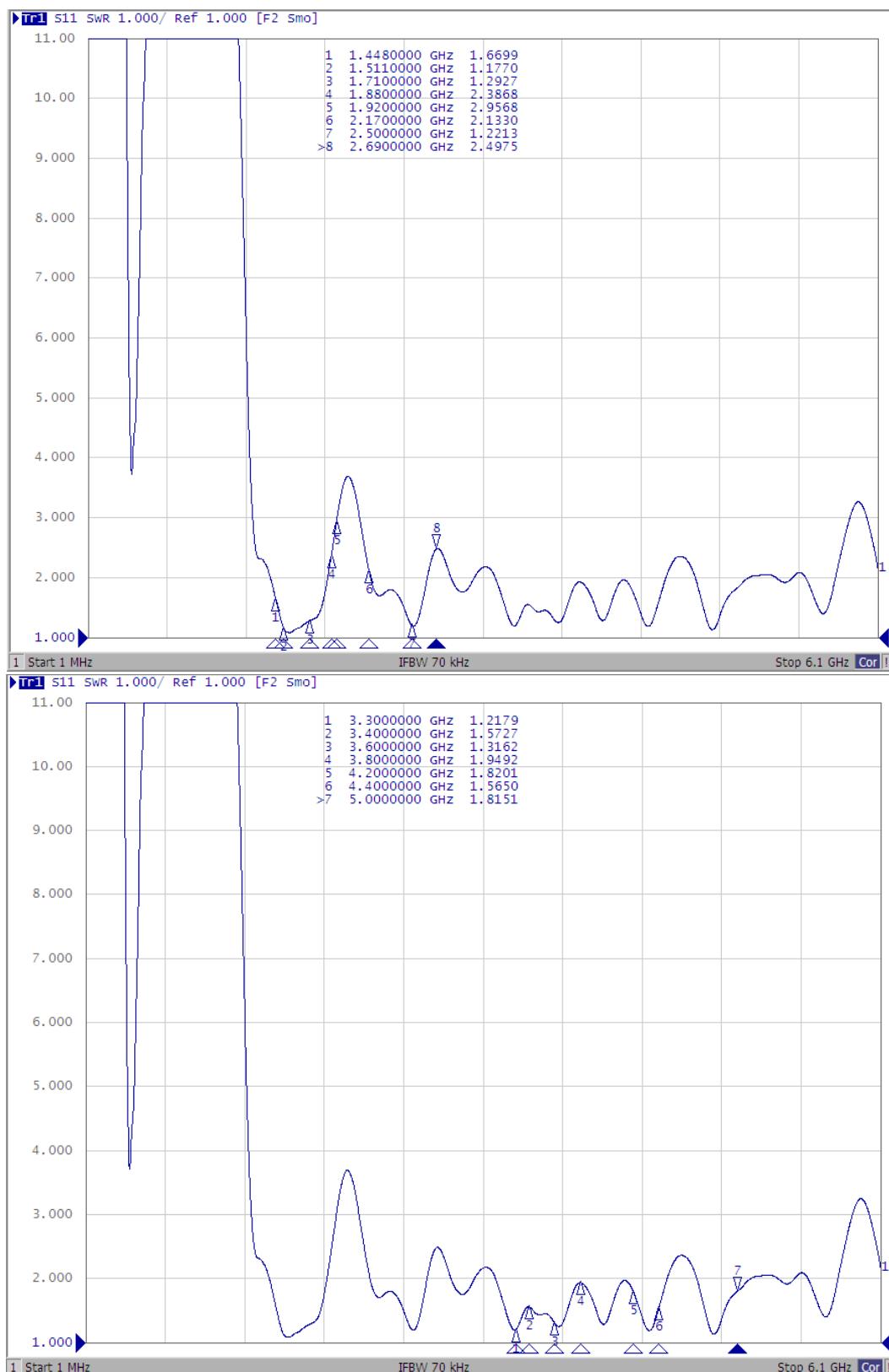
5.BLE

II . Electrical Specifications	
Frequency Range	2400MHz~2500MHz
Avg. Gain	Min -1.5dBi
V.S.W.R	≤ 2.0
Radiation	Omni
Polarization	Linear
Impedance	50Ω

ANTENNA SPECIFICATION
● V.S.W.R
1. LTE1


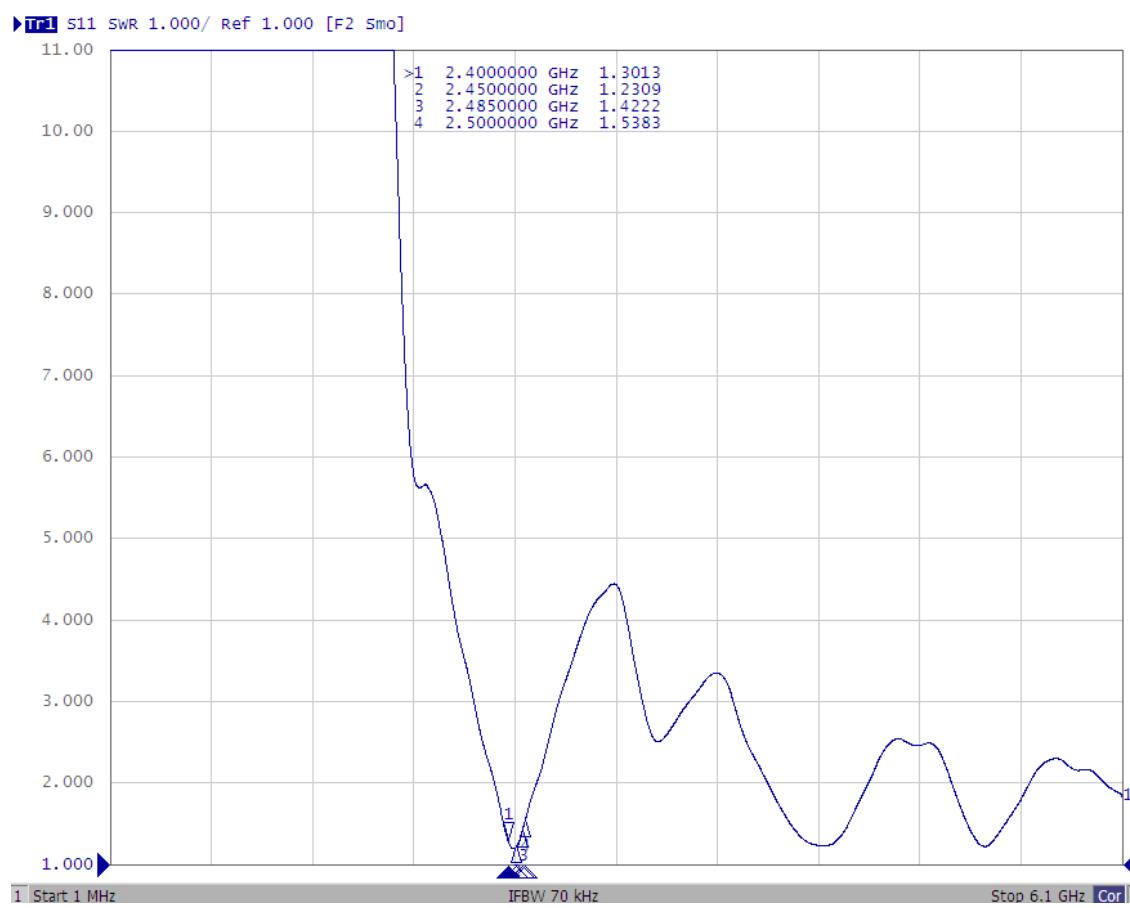
ANTENNA SPECIFICATION
2.LTE2


ANTENNA SPECIFICATION
3.LTE3


ANTENNA SPECIFICATION
4.LTE4


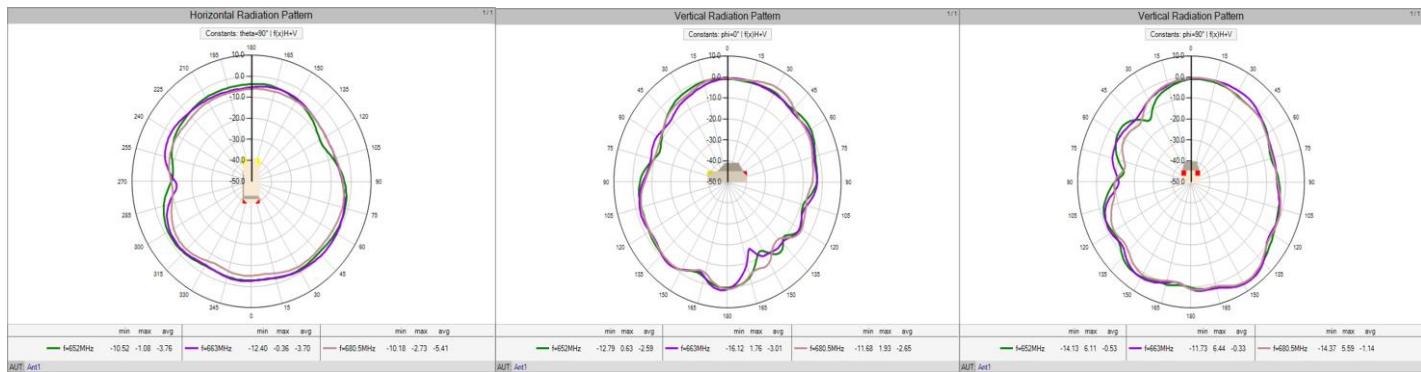
ANTENNA SPECIFICATION

5.BLE

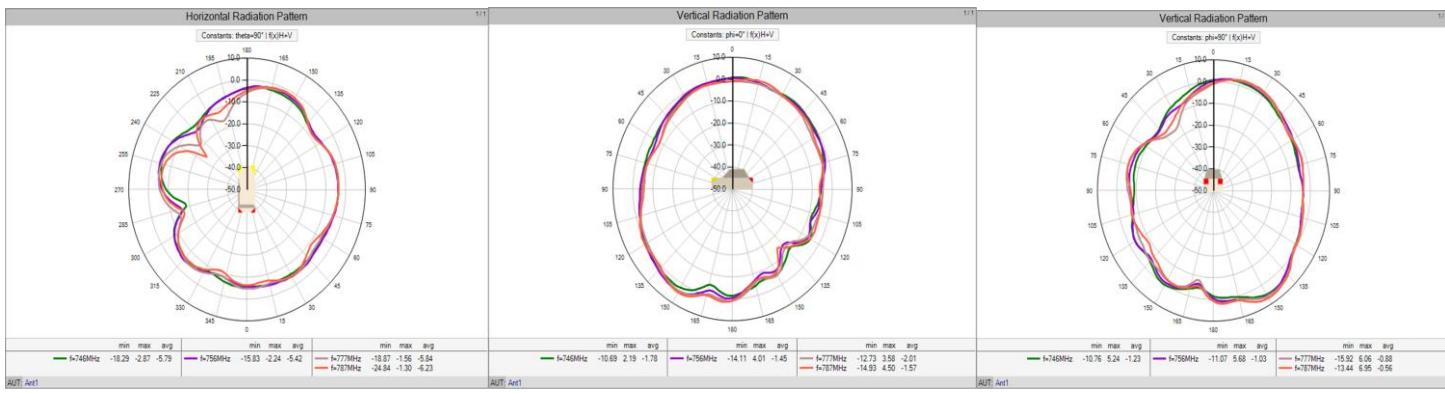


ANTENNA SPECIFICATION
● BEAM PATTERN
1. LTE1

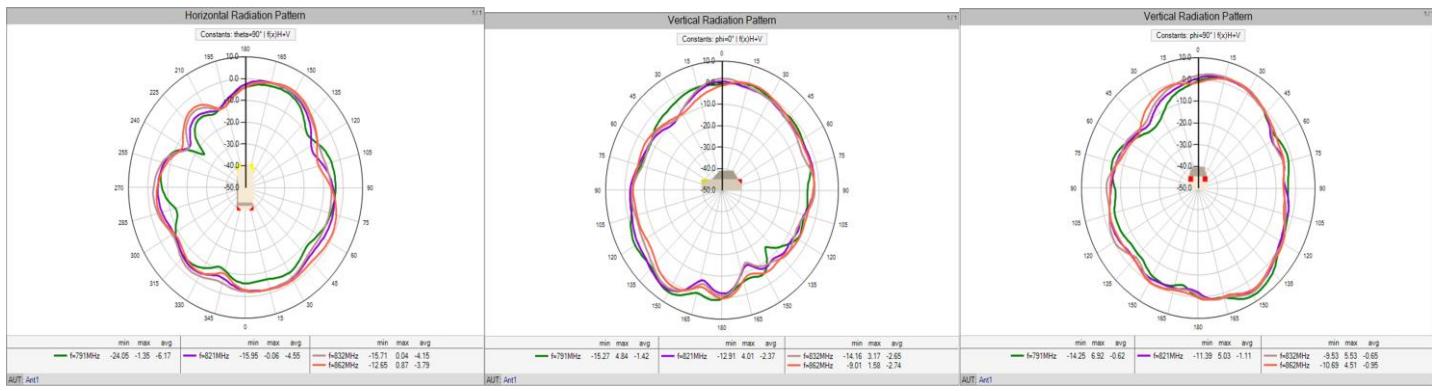
- B71

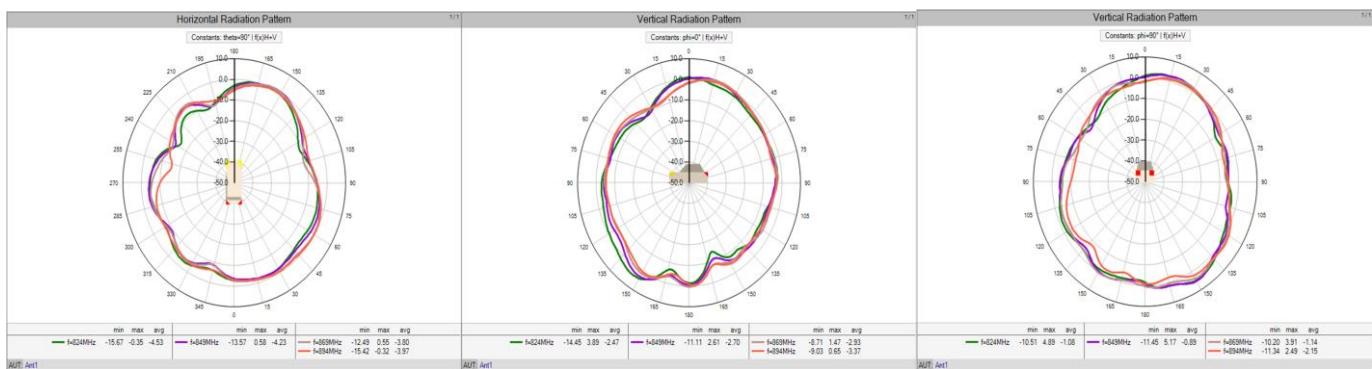
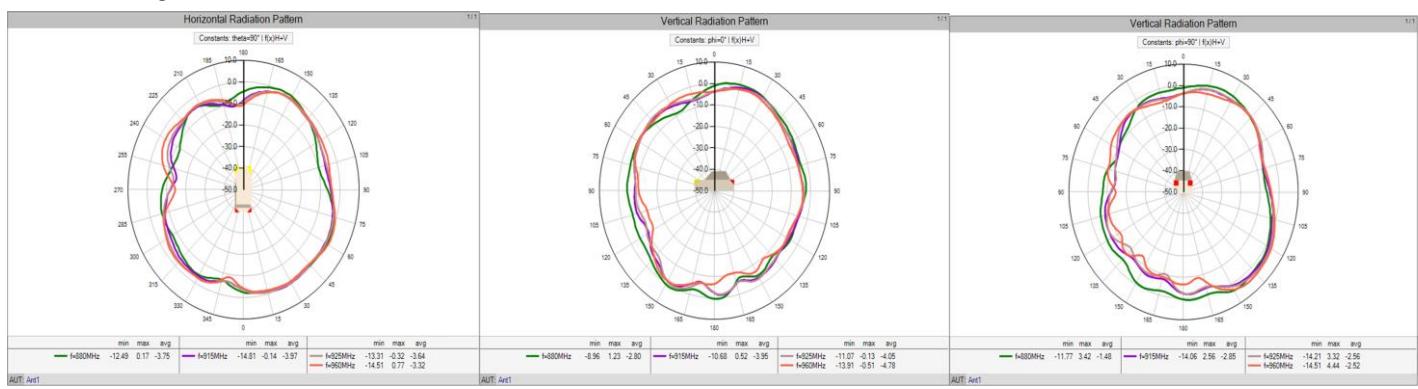
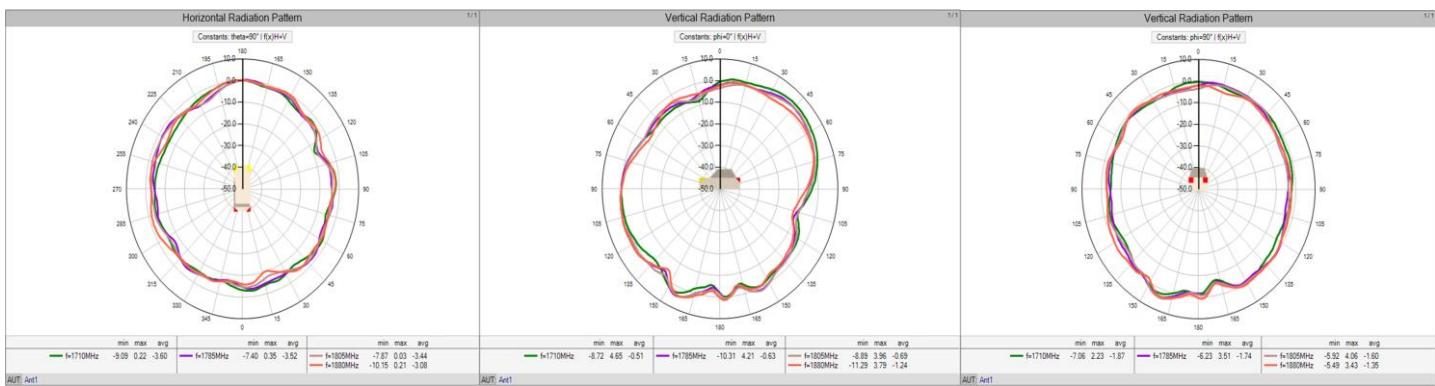


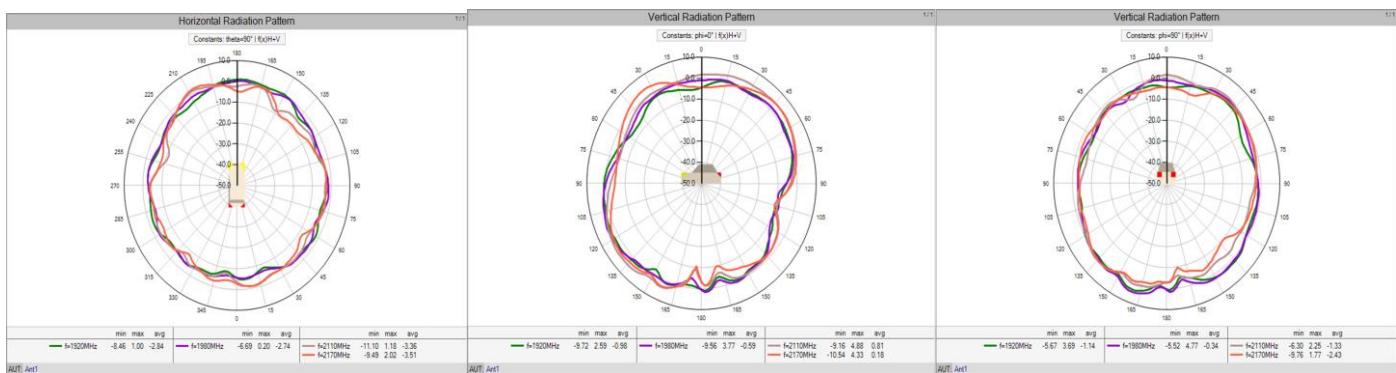
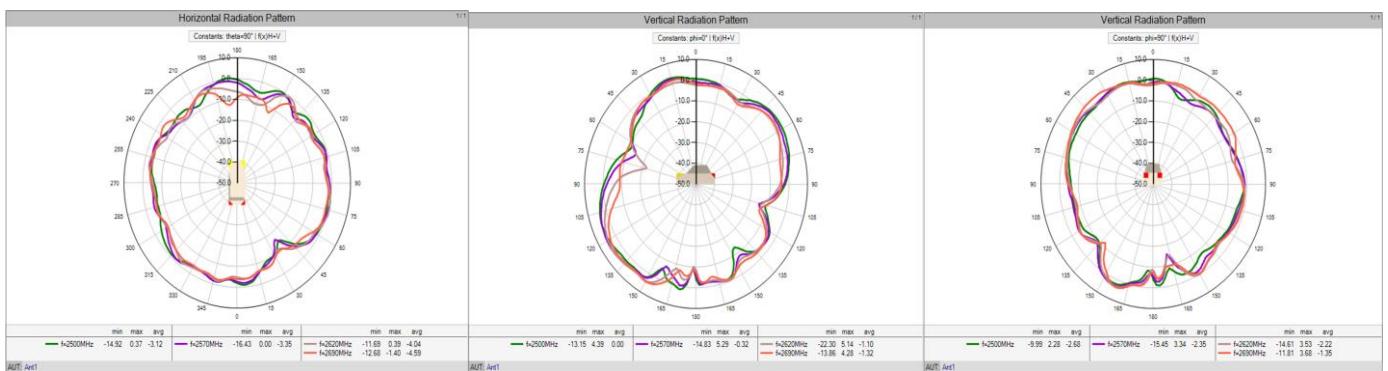
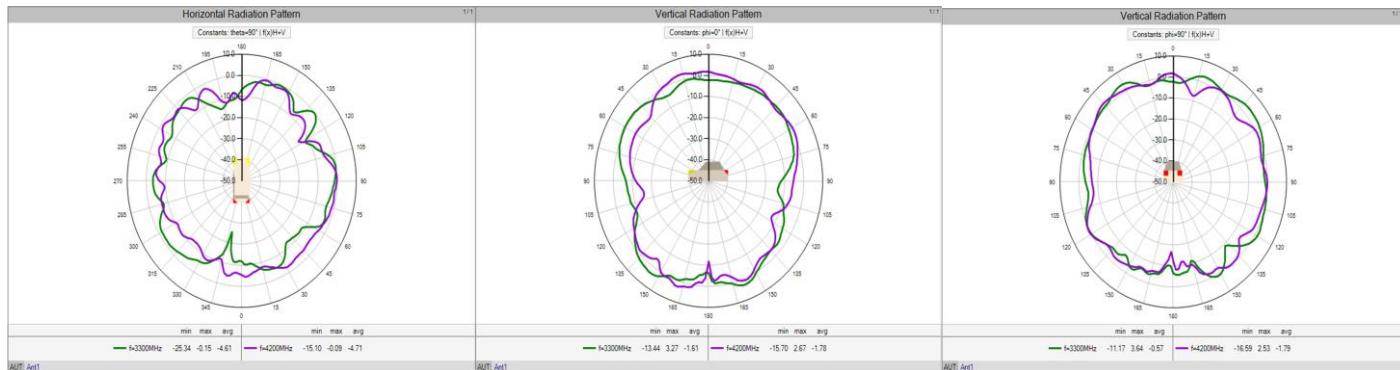
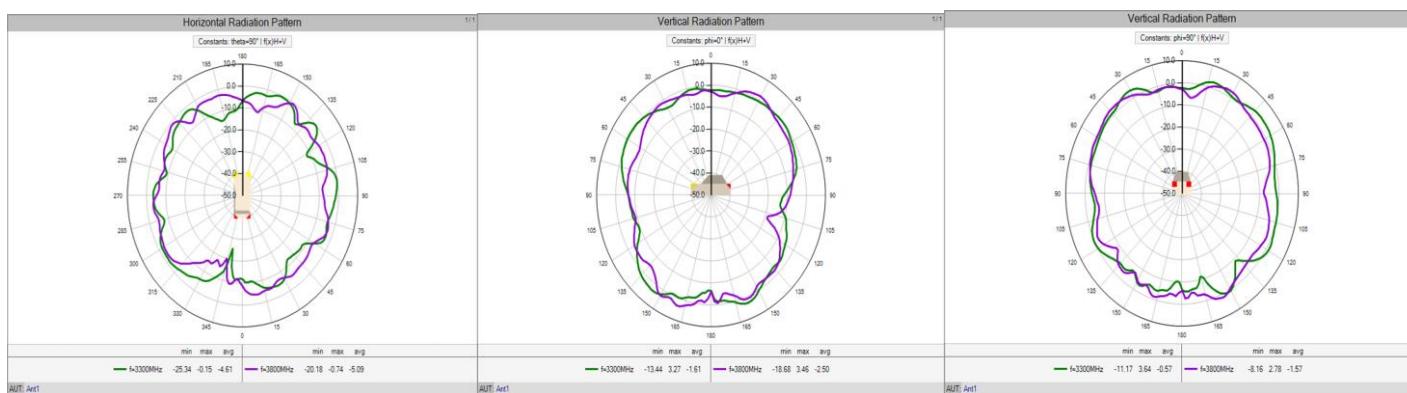
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- B20

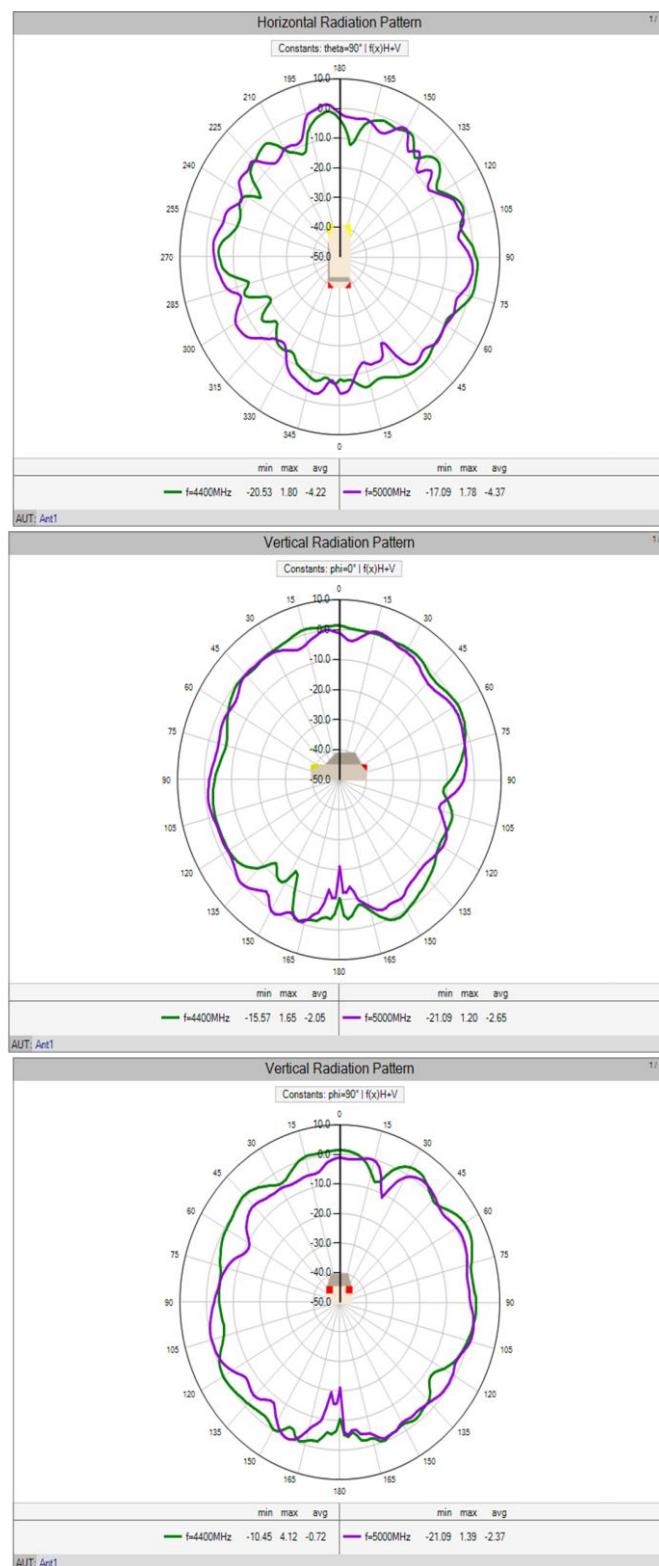


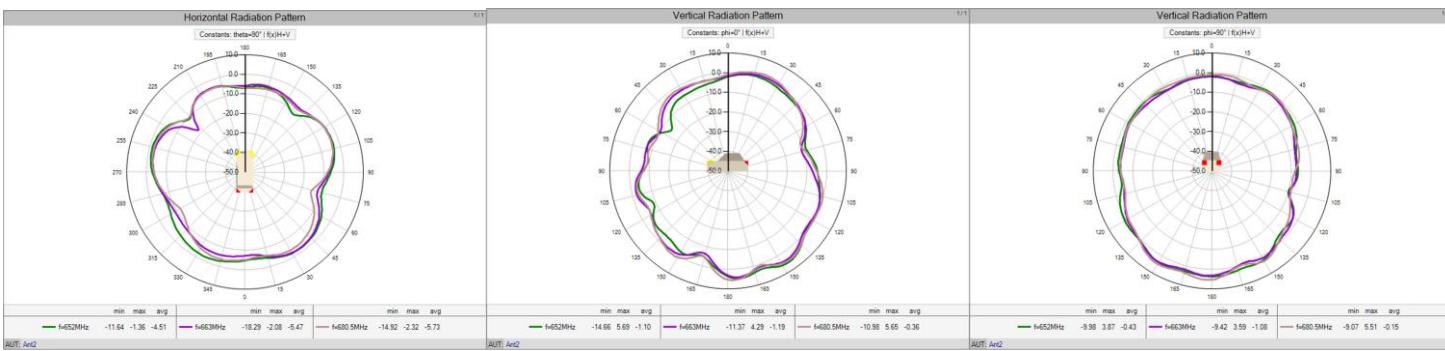
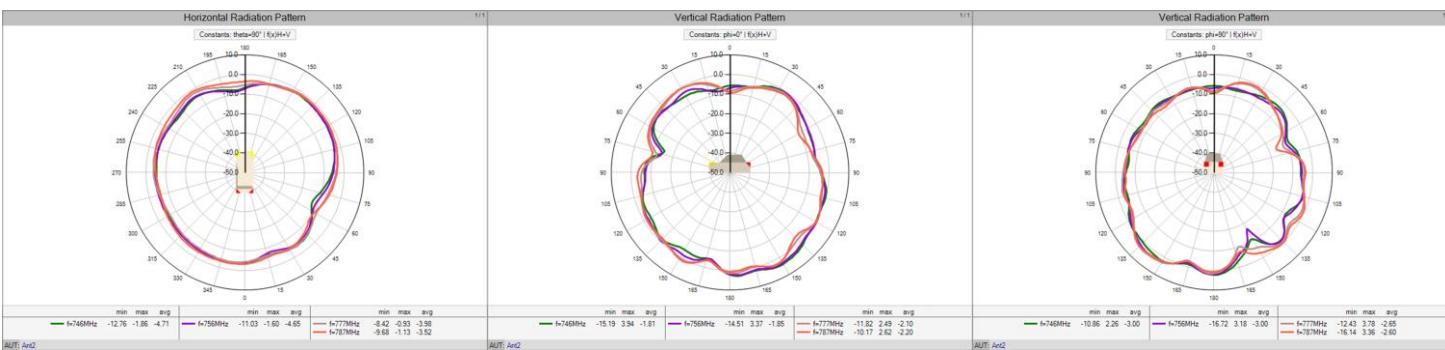
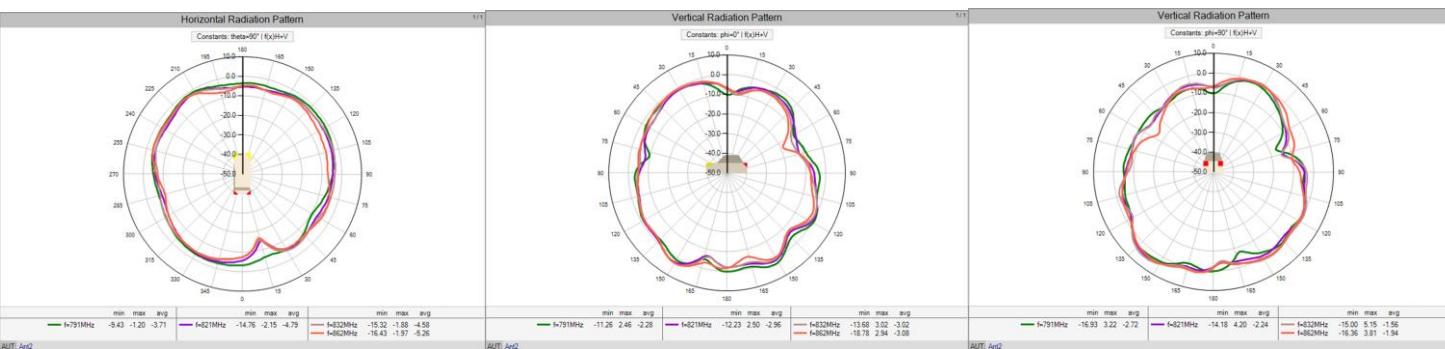
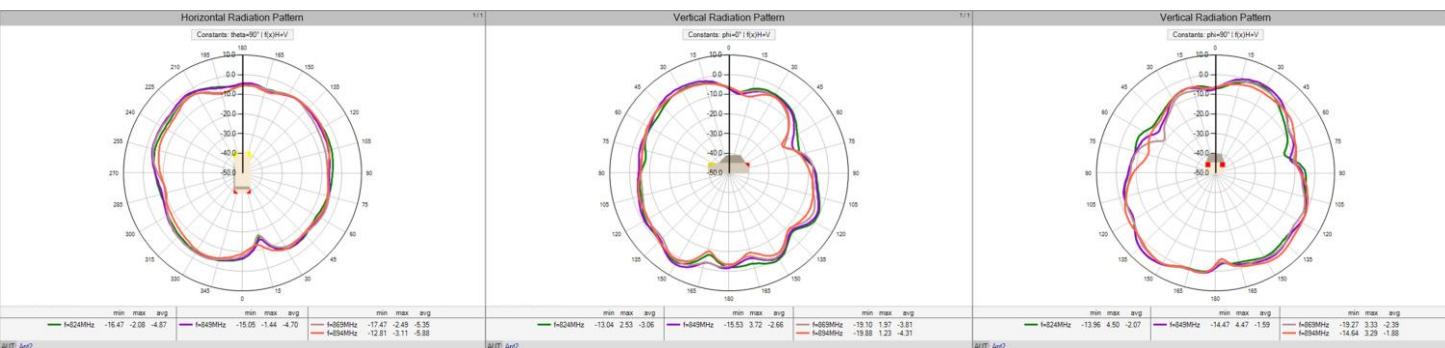
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- B5

- B8

- B3


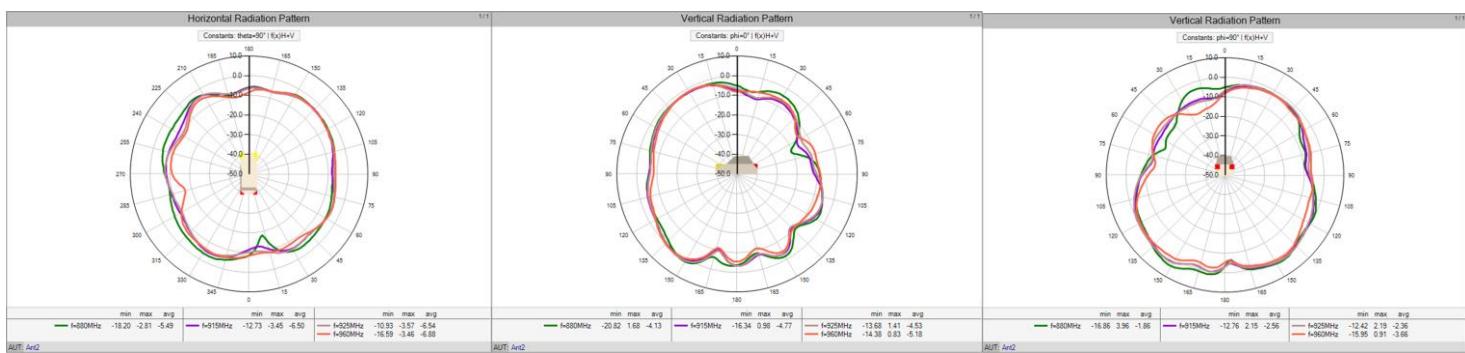
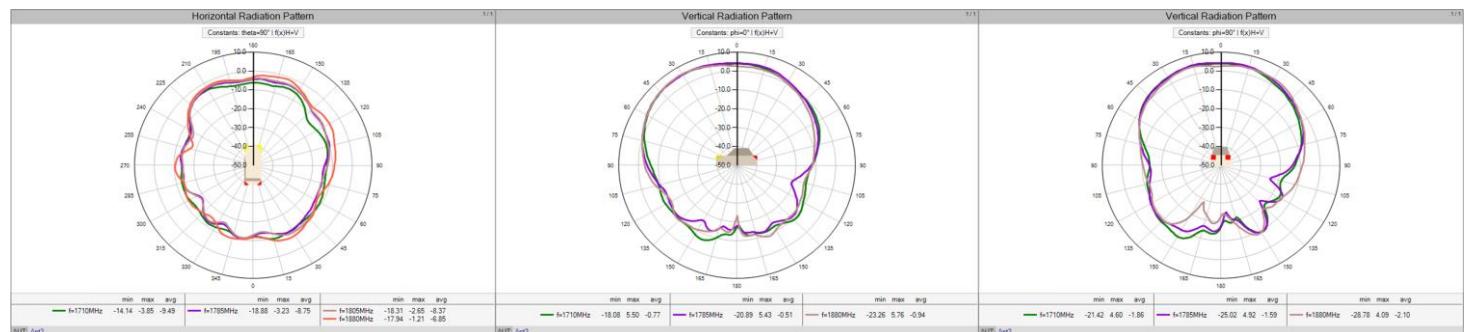
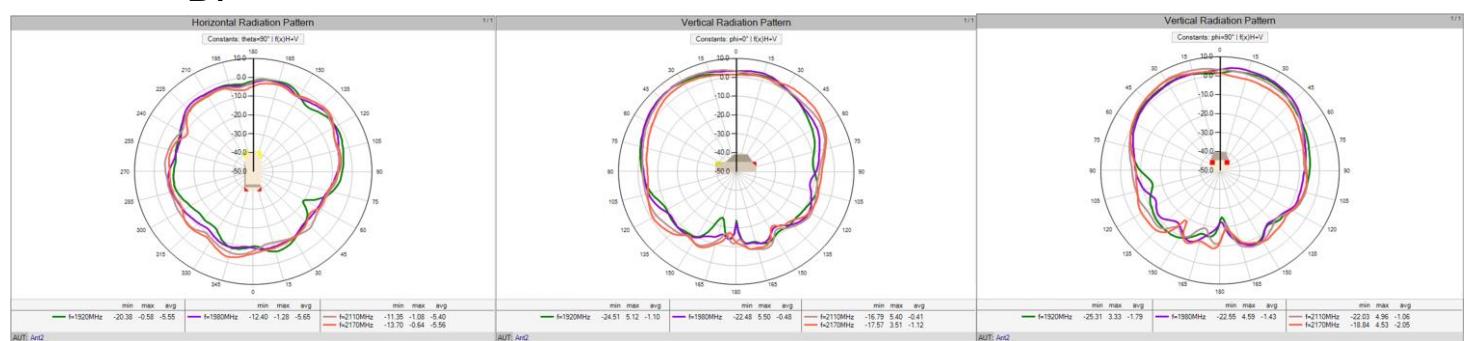
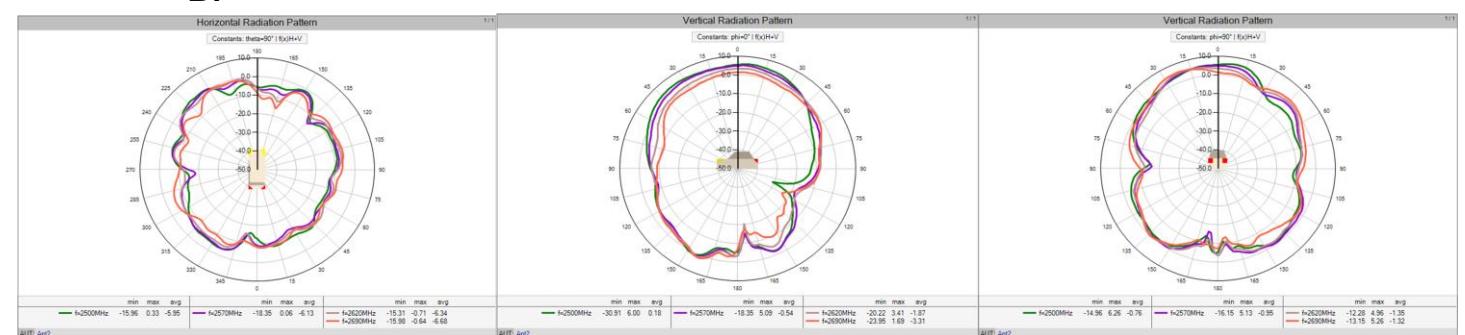
ANTENNA SPECIFICATION
- B1

- B7

- N77

- N78


ANTENNA SPECIFICATION

N79

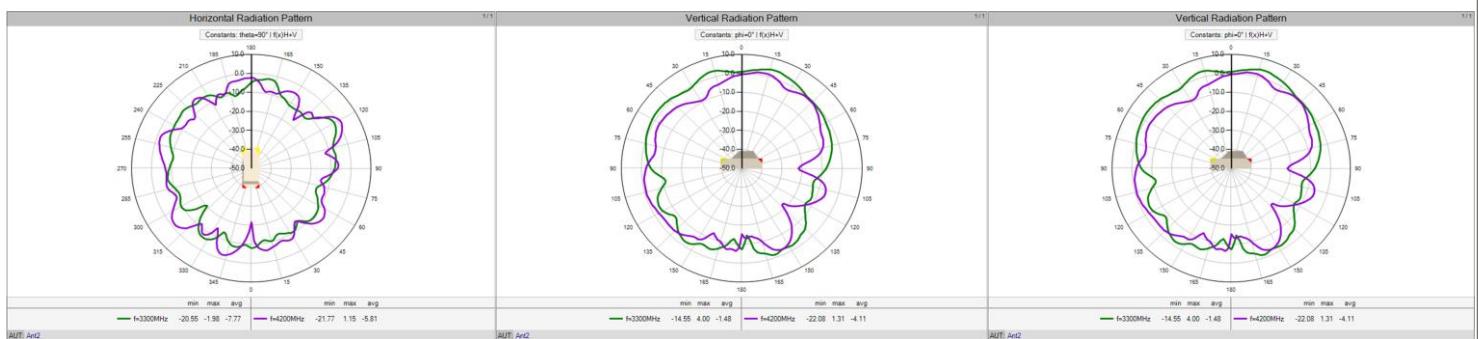


ANTENNA SPECIFICATION
2.LTE2
- B71

- B13

- B20

- B5


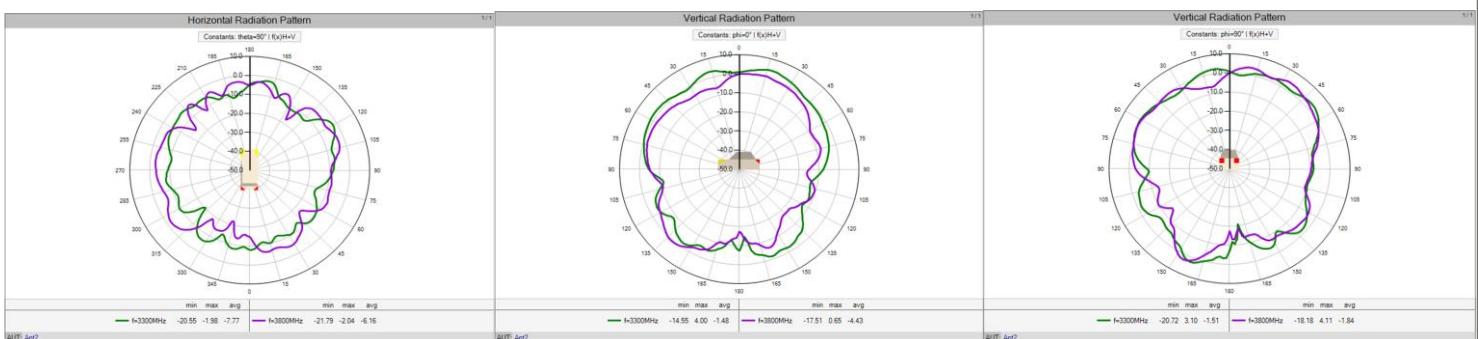
ANTENNA SPECIFICATION
- B8

- B3

- B1

- B7


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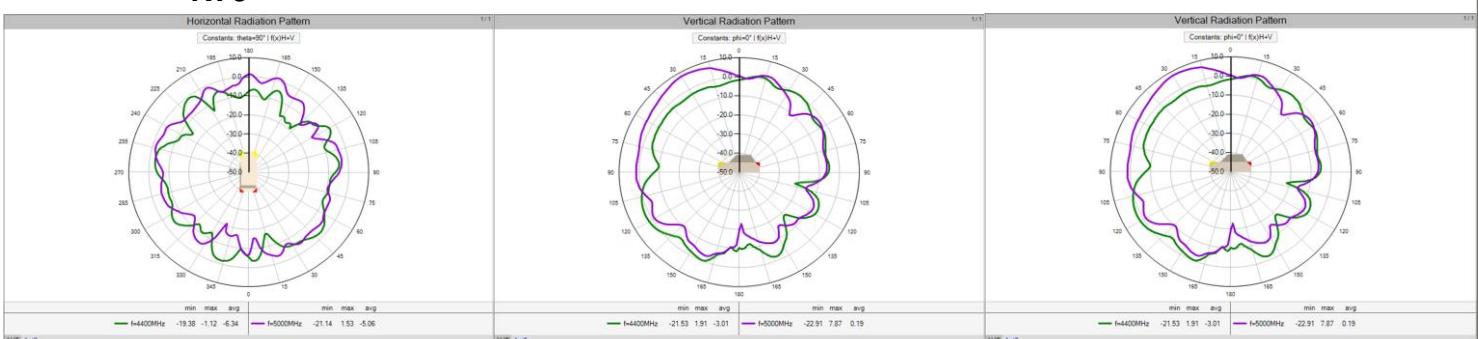
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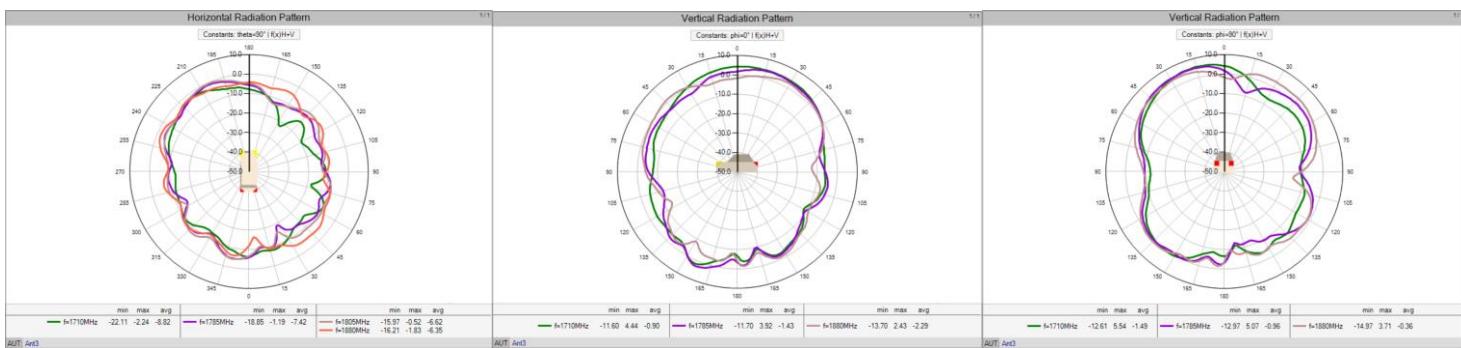
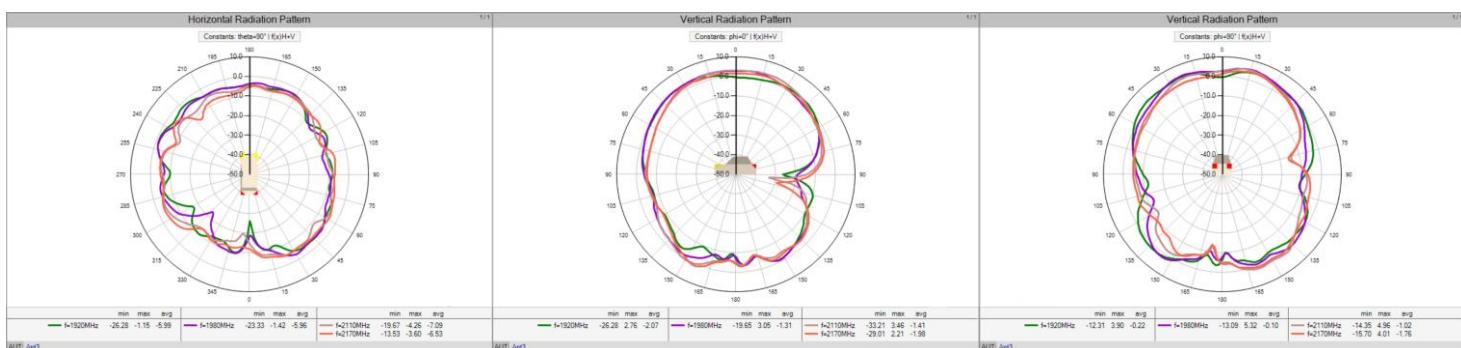
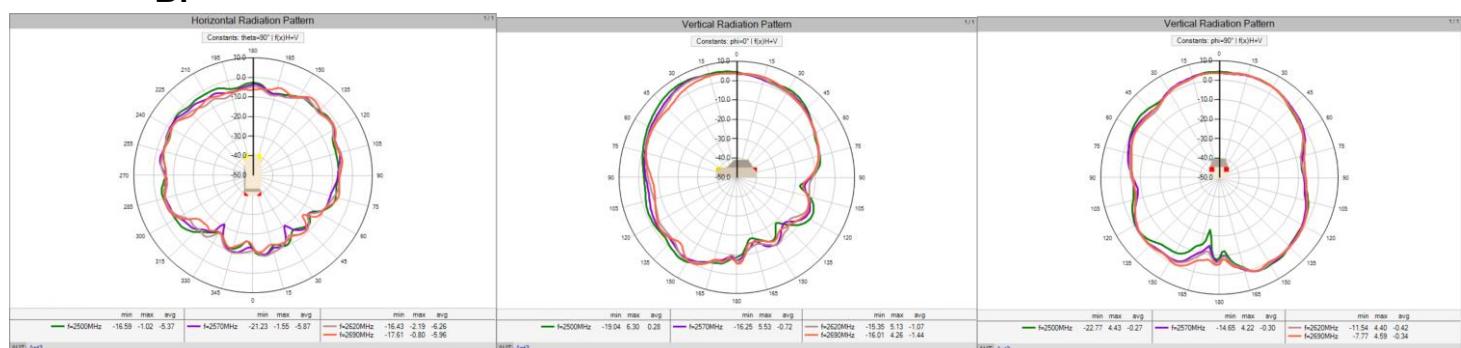
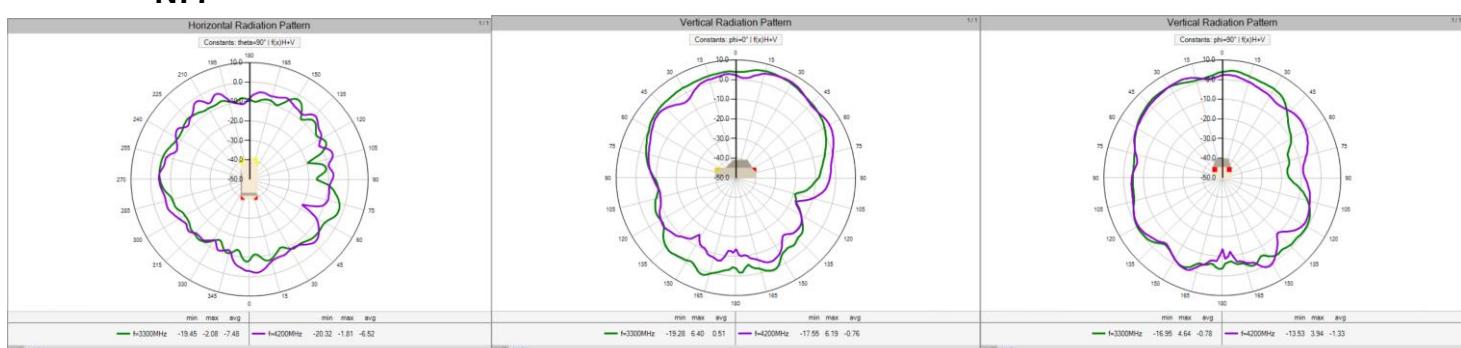


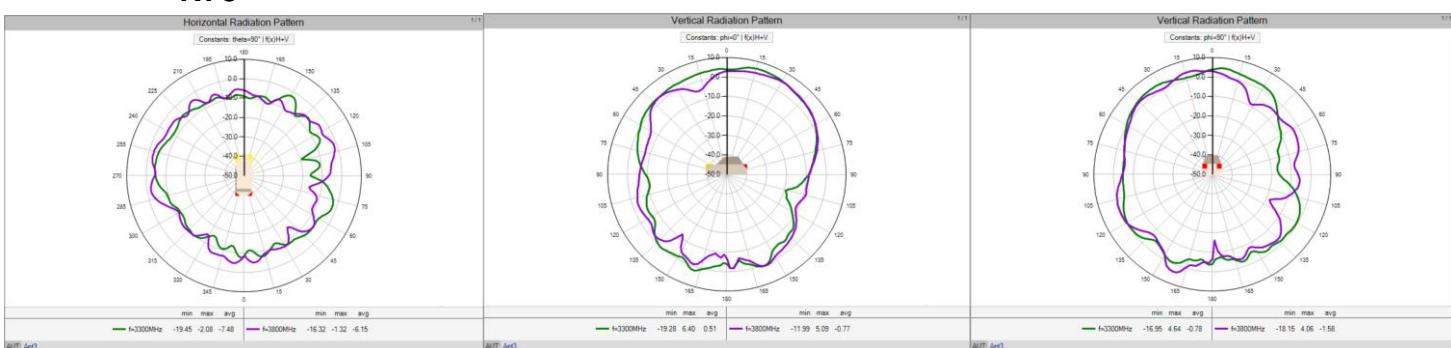
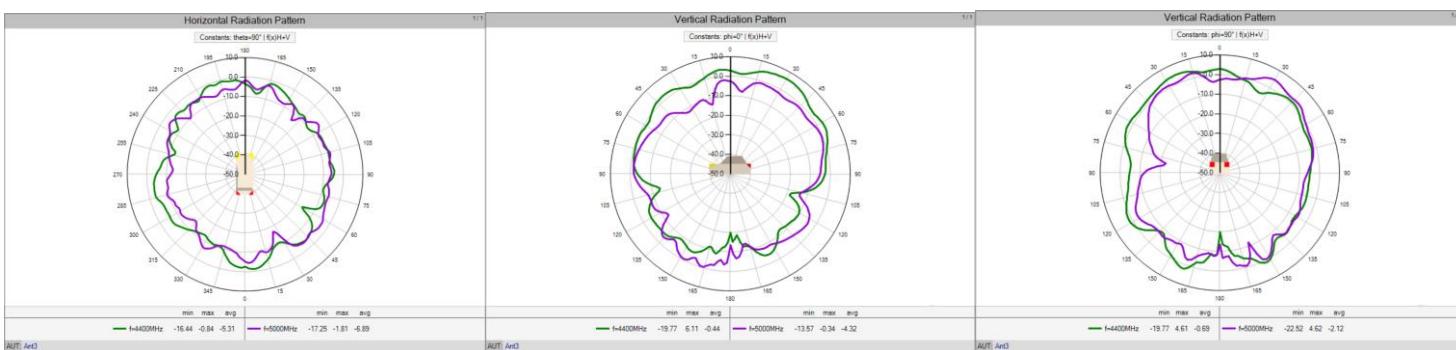
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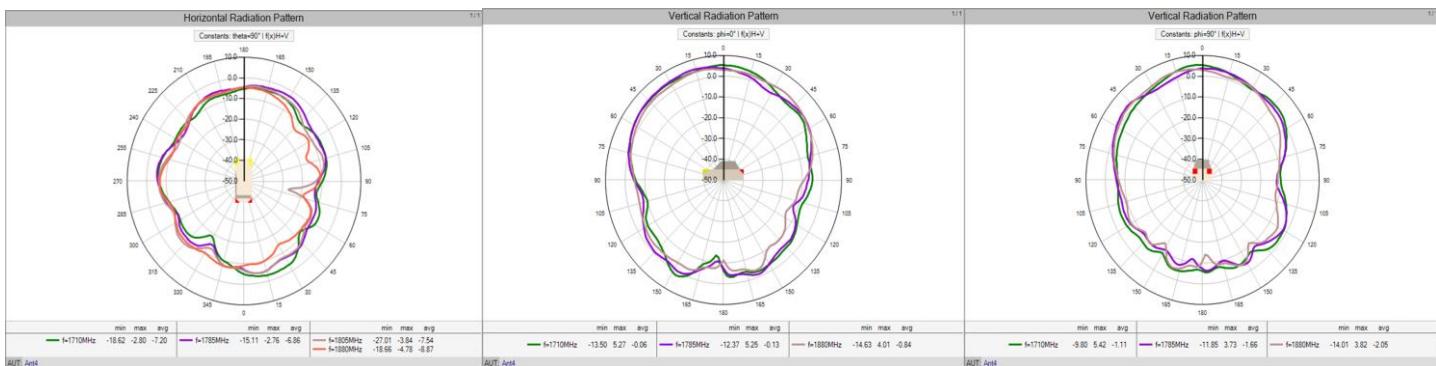
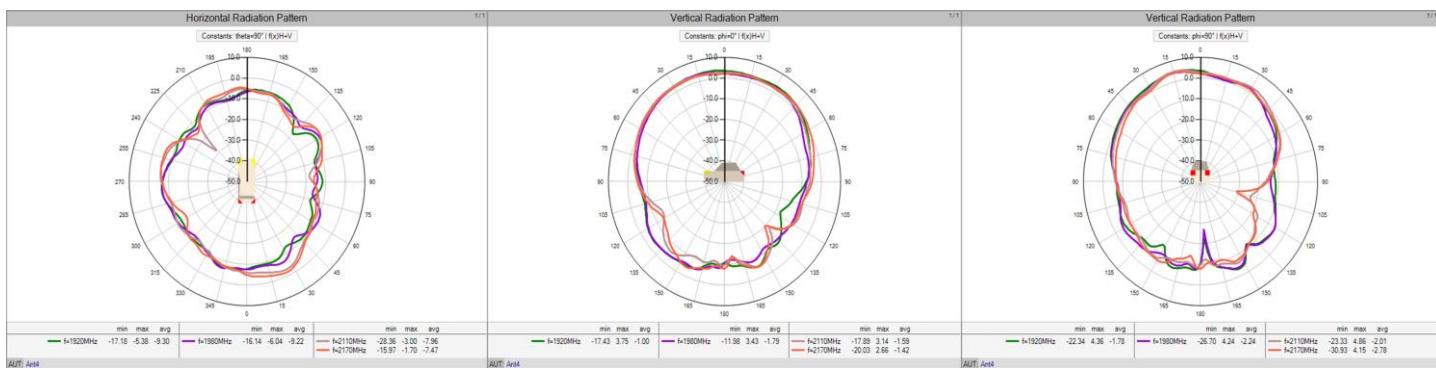
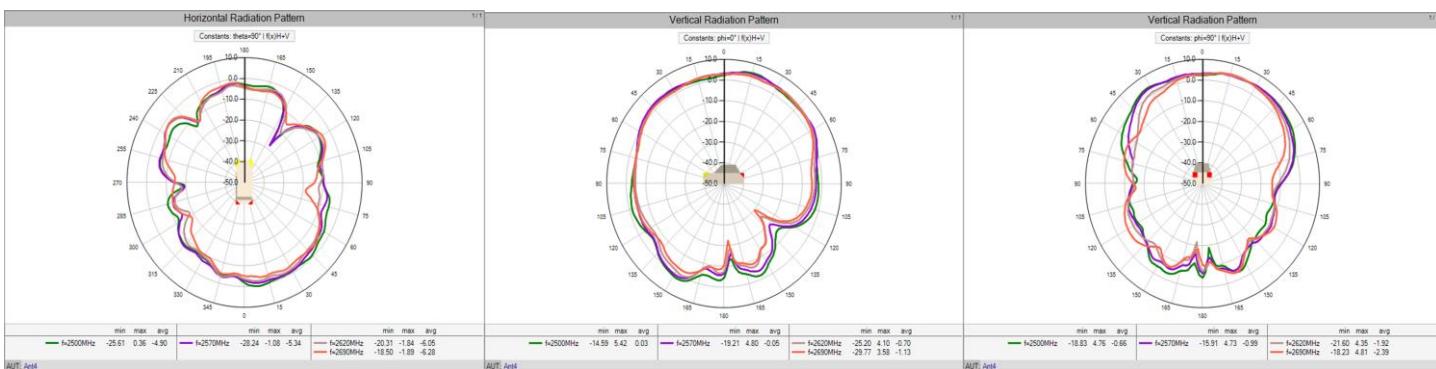
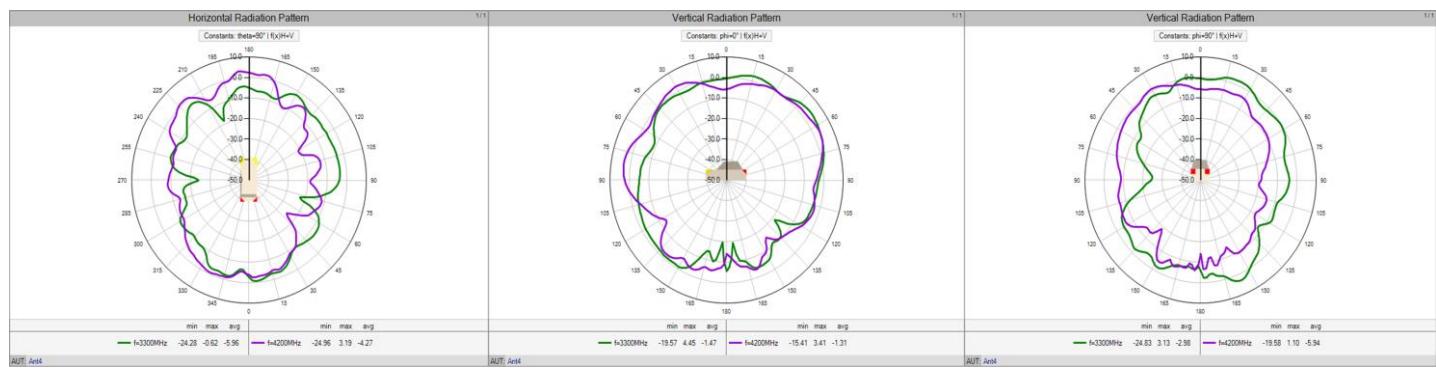


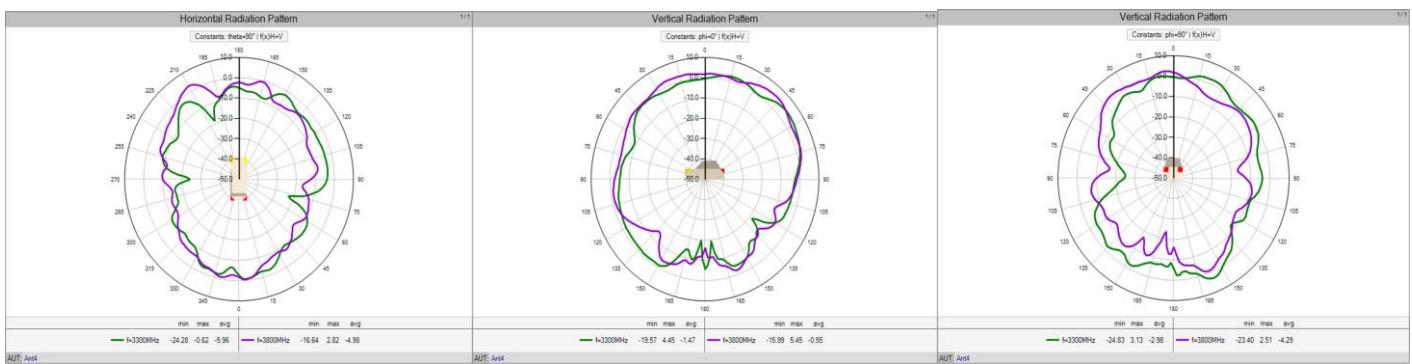
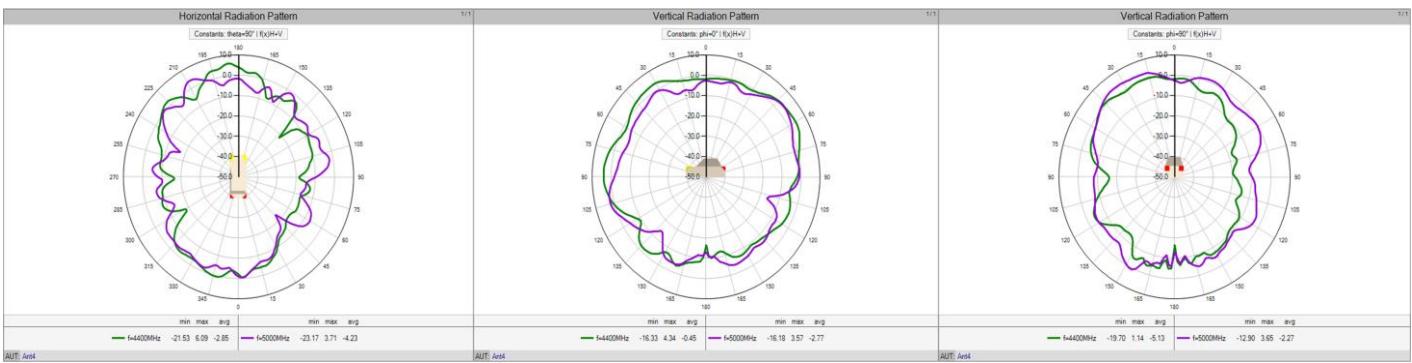
- N79



ANTENNA SPECIFICATION
3.LTE3
- B3

- B1

- B7

- N77


ANTENNA SPECIFICATION
- N78

- N79


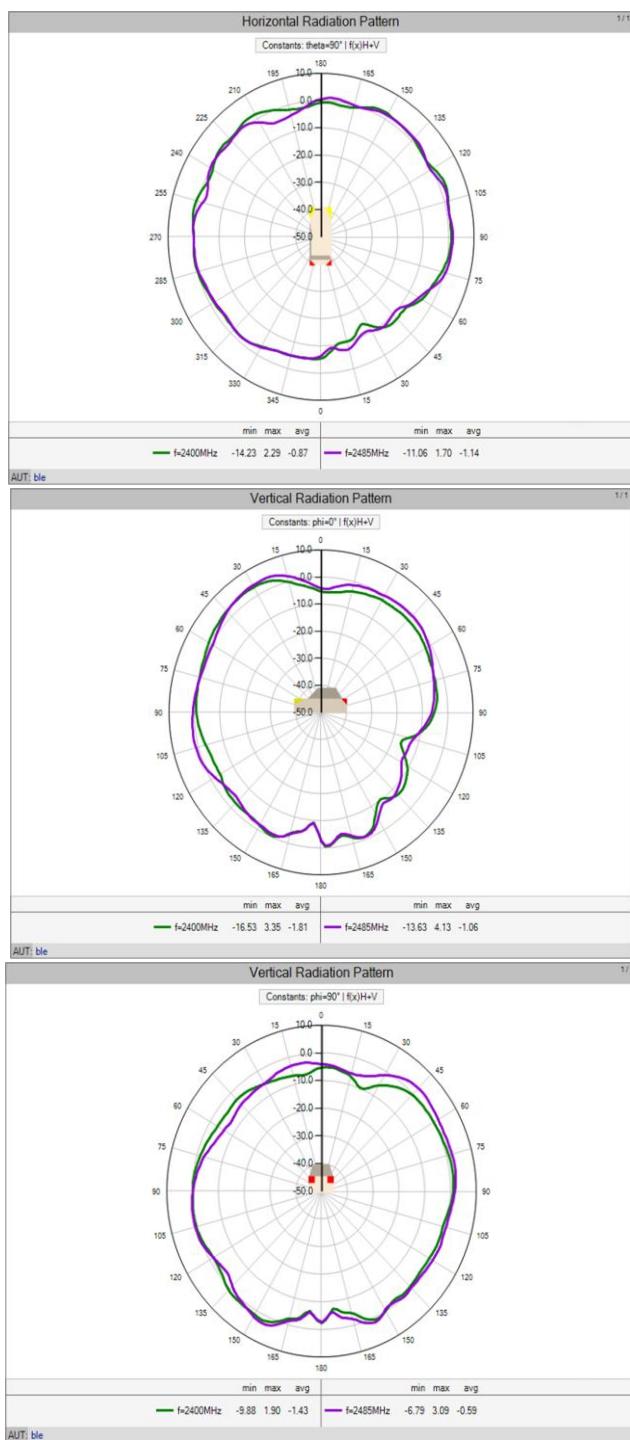
ANTENNA SPECIFICATION
4.LTE4
- B3

- B1

- B7

- N77


ANTENNA SPECIFICATION
- N78

- N79


ANTENNA SPECIFICATION

5. BLE

- BLE



ANTENNA SPECIFICATION

● PRODUCT DRAWING TOP COVER SET

ANTENNA SPECIFICATION

TOP COVER

1 2 3 4 5 6 7 8

MARK

CHANGE DESCRIPTION

DESIGNED DATE REV

PROD DATE REV

◆ 初版发布

◆ 增加装车定位孔, I.T.EI 热熔带, 尺寸 950-(100),
厚度量 2024-01-15 S01

◆ 增加装车定位孔, I.T.EI 热熔带, 尺寸 950-(100),
厚度量 2024-01-15 S02

DIM **W/Mach Part** **W/Mach Part**

Range **Tol.** **Tol.**

Dim	W/Mach Part	W/Mach Part	Range	Tol.	Tol.
1~3	#002	#003	>3~6	#003	#005
>6~10	#005	#006	>10~18	#006	#007
>18~30	#007	#008	>30~50	#008	#010
>50~80	#010	#015	>80~120	#015	#020
>120~180	#020	#023	>180~250	#023	#026

D

C

B

A

DRAWING DISTRIBUTION

PART NAME	TCM3 上壳, without SHIMS	DESIGNED	CHECK	DATE
IPQC	✓	IPQC	✓	2024-01-15
OCQC	✓	OCQC	✓	2024-01-15
MFQ	✓	MFQ	✓	2024-01-15
LOG	✓	LOG	✓	2024-01-15
PART NO.	S-HI-43-0002-0014-0	APPROVE	1/3	2024-01-15
JM	LD	MATERIAL	A.3	PAGE
BD	DZ	SCALE	2/3	
UNIT	mm	FIT		

C

B

A

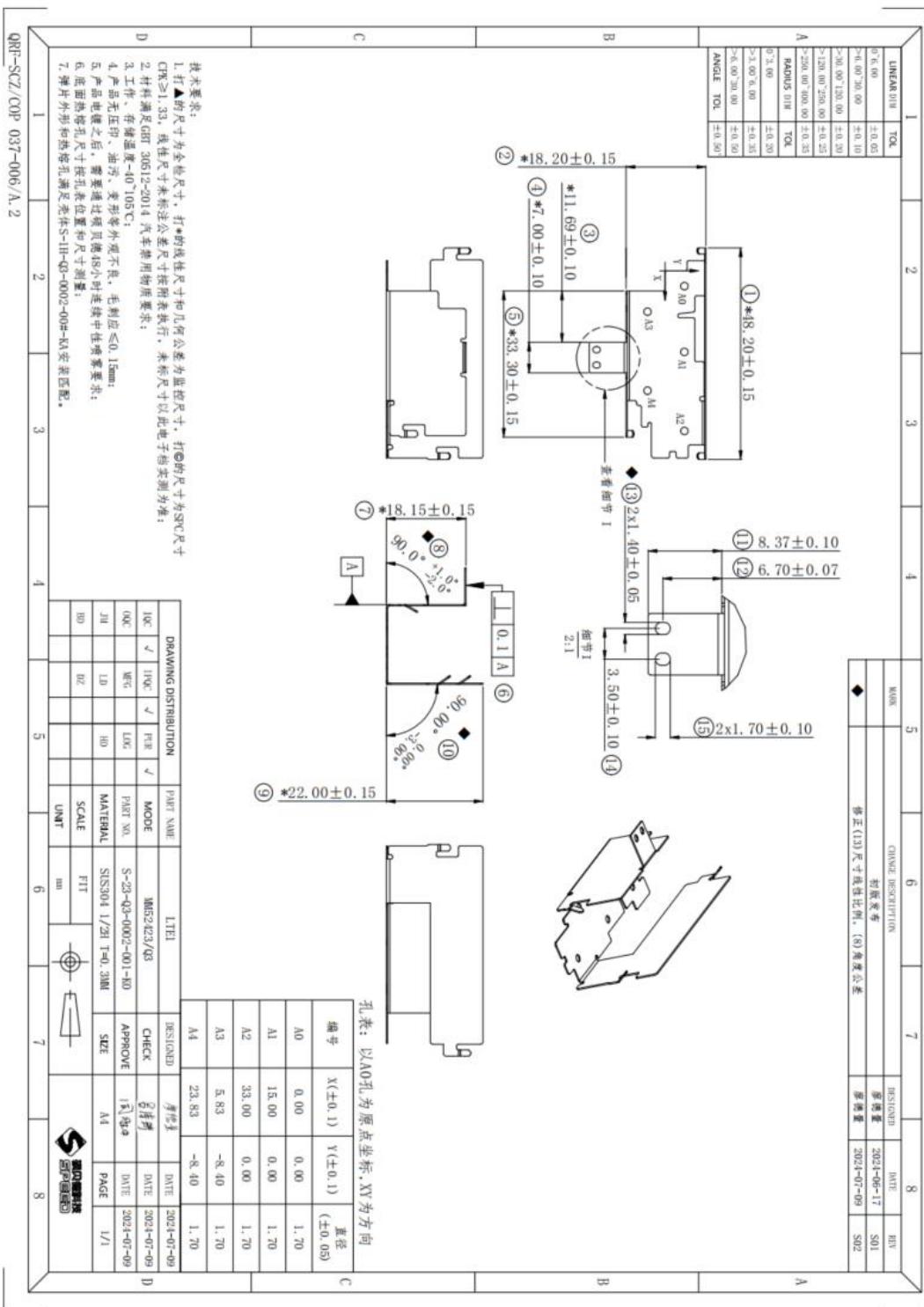
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QRF-S CZ/COP 037-006/A.2



ANTENNA SPECIFICATION

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A		B		C		D		E		F		G		H	
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ANTENNA SPECIFICATION
LTE1 ANTENNA


ANTENNA SPECIFICATION

LTE2 ANTENNA

技术要求:

1. 打的尺寸为全检尺寸, 打的线性尺寸和几何公差为量检尺寸, 打的尺寸为SFC尺寸且 $UPR \geq 1.33$, 线性尺寸未标注公差尺寸时按表A标注, 线性尺寸以此电子档实测为准;

2. 材料满足GTR 30512-2014《汽车禁用物质要求》、《Volvo VES 5005 5.0版用物质管理》;

3. 零件排放满足《Volvo BPR-33616724-RED-24333v1》《供应商质量管理体系手册: F4033735》《管制物质环境、健康和职业安全要求: 3015731》;

5. 工作、储存温度-40~115°C;

6. 产品无压印、油污、变形等外观不良, 毛刺应 $\leq 0.15\text{mm}$;

7. 产品特殊特性标识▲;

8. 热熔后热熔块与铸件间无间隙、无熔胶、拉丝不良, 每个热熔头分着力 $\geq 15\text{N}$ 。

MARK **CHANGE DESCRIPTION** **DESIGNED** **DATE** **REV**

◆ (1) (3)长度减短, (5)(7)去掉且挖要求 **初版发布** **2023-10-18** **S01**

◆ (2) **厚度量** **2024-06-25** **S01**

A **RADIUS DIM** **TOL.**

0~3.00 ±0.20
 > 6.00~30.00 ±0.10
 > 30.00~120.00 ±0.20
 > 120.00~250.00 ±0.25
 > 250.00~400.00 ±0.35
 > 400.00~600.00 ±0.50
 > 600.00~800.00 ±0.60
 > 800.00~1000.00 ±0.70
 > 1000.00~1200.00 ±0.80
 > 1200.00~1400.00 ±0.90
 > 1400.00~1600.00 ±1.00
 > 1600.00~1800.00 ±1.10
 > 1800.00~2000.00 ±1.20
 > 2000.00~2200.00 ±1.30
 > 2200.00~2400.00 ±1.40
 > 2400.00~2600.00 ±1.50
 > 2600.00~2800.00 ±1.60
 > 2800.00~3000.00 ±1.70
 > 3000.00~3200.00 ±1.80
 > 3200.00~3400.00 ±1.90
 > 3400.00~3600.00 ±2.00
 > 3600.00~3800.00 ±2.10
 > 3800.00~4000.00 ±2.20
 > 4000.00~4200.00 ±2.30
 > 4200.00~4400.00 ±2.40
 > 4400.00~4600.00 ±2.50
 > 4600.00~4800.00 ±2.60
 > 4800.00~5000.00 ±2.70
 > 5000.00~5200.00 ±2.80
 > 5200.00~5400.00 ±2.90
 > 5400.00~5600.00 ±3.00
 > 5600.00~5800.00 ±3.10
 > 5800.00~6000.00 ±3.20
 > 6000.00~6200.00 ±3.30
 > 6200.00~6400.00 ±3.40
 > 6400.00~6600.00 ±3.50
 > 6600.00~6800.00 ±3.60
 > 6800.00~7000.00 ±3.70
 > 7000.00~7200.00 ±3.80
 > 7200.00~7400.00 ±3.90
 > 7400.00~7600.00 ±4.00
 > 7600.00~7800.00 ±4.10
 > 7800.00~8000.00 ±4.20
 > 8000.00~8200.00 ±4.30
 > 8200.00~8400.00 ±4.40
 > 8400.00~8600.00 ±4.50
 > 8600.00~8800.00 ±4.60
 > 8800.00~9000.00 ±4.70
 > 9000.00~9200.00 ±4.80
 > 9200.00~9400.00 ±4.90
 > 9400.00~9600.00 ±5.00
 > 9600.00~9800.00 ±5.10
 > 9800.00~10000.00 ±5.20
 > 10000.00~10200.00 ±5.30
 > 10200.00~10400.00 ±5.40
 > 10400.00~10600.00 ±5.50
 > 10600.00~10800.00 ±5.60
 > 10800.00~11000.00 ±5.70
 > 11000.00~11200.00 ±5.80
 > 11200.00~11400.00 ±5.90
 > 11400.00~11600.00 ±6.00
 > 11600.00~11800.00 ±6.10
 > 11800.00~12000.00 ±6.20
 > 12000.00~12200.00 ±6.30
 > 12200.00~12400.00 ±6.40
 > 12400.00~12600.00 ±6.50
 > 12600.00~12800.00 ±6.60
 > 12800.00~13000.00 ±6.70
 > 13000.00~13200.00 ±6.80
 > 13200.00~13400.00 ±6.90
 > 13400.00~13600.00 ±7.00
 > 13600.00~13800.00 ±7.10
 > 13800.00~14000.00 ±7.20
 > 14000.00~14200.00 ±7.30
 > 14200.00~14400.00 ±7.40
 > 14400.00~14600.00 ±7.50
 > 14600.00~14800.00 ±7.60
 > 14800.00~15000.00 ±7.70
 > 15000.00~15200.00 ±7.80
 > 15200.00~15400.00 ±7.90
 > 15400.00~15600.00 ±8.00
 > 15600.00~15800.00 ±8.10
 > 15800.00~16000.00 ±8.20
 > 16000.00~16200.00 ±8.30
 > 16200.00~16400.00 ±8.40
 > 16400.00~16600.00 ±8.50
 > 16600.00~16800.00 ±8.60
 > 16800.00~17000.00 ±8.70
 > 17000.00~17200.00 ±8.80
 > 17200.00~17400.00 ±8.90
 > 17400.00~17600.00 ±9.00
 > 17600.00~17800.00 ±9.10
 > 17800.00~18000.00 ±9.20
 > 18000.00~18200.00 ±9.30
 > 18200.00~18400.00 ±9.40
 > 18400.00~18600.00 ±9.50
 > 18600.00~18800.00 ±9.60
 > 18800.00~19000.00 ±9.70
 > 19000.00~19200.00 ±9.80
 > 19200.00~19400.00 ±9.90
 > 19400.00~19600.00 ±10.00
 > 19600.00~19800.00 ±10.10
 > 19800.00~20000.00 ±10.20
 > 20000.00~20200.00 ±10.30
 > 20200.00~20400.00 ±10.40
 > 20400.00~20600.00 ±10.50
 > 20600.00~20800.00 ±10.60
 > 20800.00~21000.00 ±10.70
 > 21000.00~21200.00 ±10.80
 > 21200.00~21400.00 ±10.90
 > 21400.00~21600.00 ±11.00
 > 21600.00~21800.00 ±11.10
 > 21800.00~22000.00 ±11.20
 > 22000.00~22200.00 ±11.30
 > 22200.00~22400.00 ±11.40
 > 22400.00~22600.00 ±11.50
 > 22600.00~22800.00 ±11.60
 > 22800.00~23000.00 ±11.70
 > 23000.00~23200.00 ±11.80
 > 23200.00~23400.00 ±11.90
 > 23400.00~23600.00 ±12.00
 > 23600.00~23800.00 ±12.10
 > 23800.00~24000.00 ±12.20
 > 24000.00~24200.00 ±12.30
 > 24200.00~24400.00 ±12.40
 > 24400.00~24600.00 ±12.50
 > 24600.00~24800.00 ±12.60
 > 24800.00~25000.00 ±12.70
 > 25000.00~25200.00 ±12.80
 > 25200.00~25400.00 ±12.90
 > 25400.00~25600.00 ±13.00
 > 25600.00~25800.00 ±13.10
 > 25800.00~26000.00 ±13.20
 > 26000.00~26200.00 ±13.30
 > 26200.00~26400.00 ±13.40
 > 26400.00~26600.00 ±13.50
 > 26600.00~26800.00 ±13.60
 > 26800.00~27000.00 ±13.70
 > 27000.00~27200.00 ±13.80
 > 27200.00~27400.00 ±13.90
 > 27400.00~27600.00 ±14.00
 > 27600.00~27800.00 ±14.10
 > 27800.00~28000.00 ±14.20
 > 28000.00~28200.00 ±14.30
 > 28200.00~28400.00 ±14.40
 > 28400.00~28600.00 ±14.50
 > 28600.00~28800.00 ±14.60
 > 28800.00~29000.00 ±14.70
 > 29000.00~29200.00 ±14.80
 > 29200.00~29400.00 ±14.90
 > 29400.00~29600.00 ±15.00

B **ANGLE TOL.** ±15°

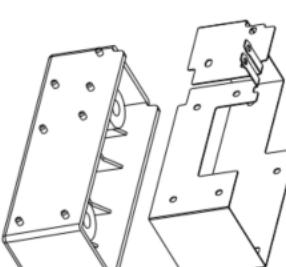
C **DRAWING DISTRIBUTION** **PART NAME** **LITE2 组件** **DESIGNED** **REVIEWED** **DATE** **DESIGNED** **REVIEWED** **DATE**

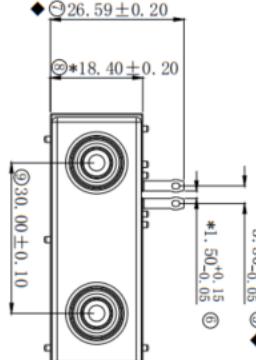
D **IPQC** **✓** **PUR** **MODE** **M052/23/Q3** **CHECK** **Q1** **2024-05-25** **IPQC** **✓** **PUR** **MODE** **M052/23/Q3** **CHECK** **Q1** **2024-05-25**

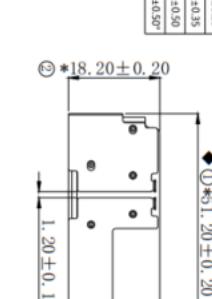
OQC **MRG** **✓** **LOG** **PART NO.** **S-00-Q3-0002-002-10** **APPROVE** **I** **2024-06-25**

JM **LD** **HD** **MATERIAL** **SIZE** **A4** **PAGE** **1/1**

BD **DZ** **SCALE** **FIT** **UNIT** **mm**  

C 

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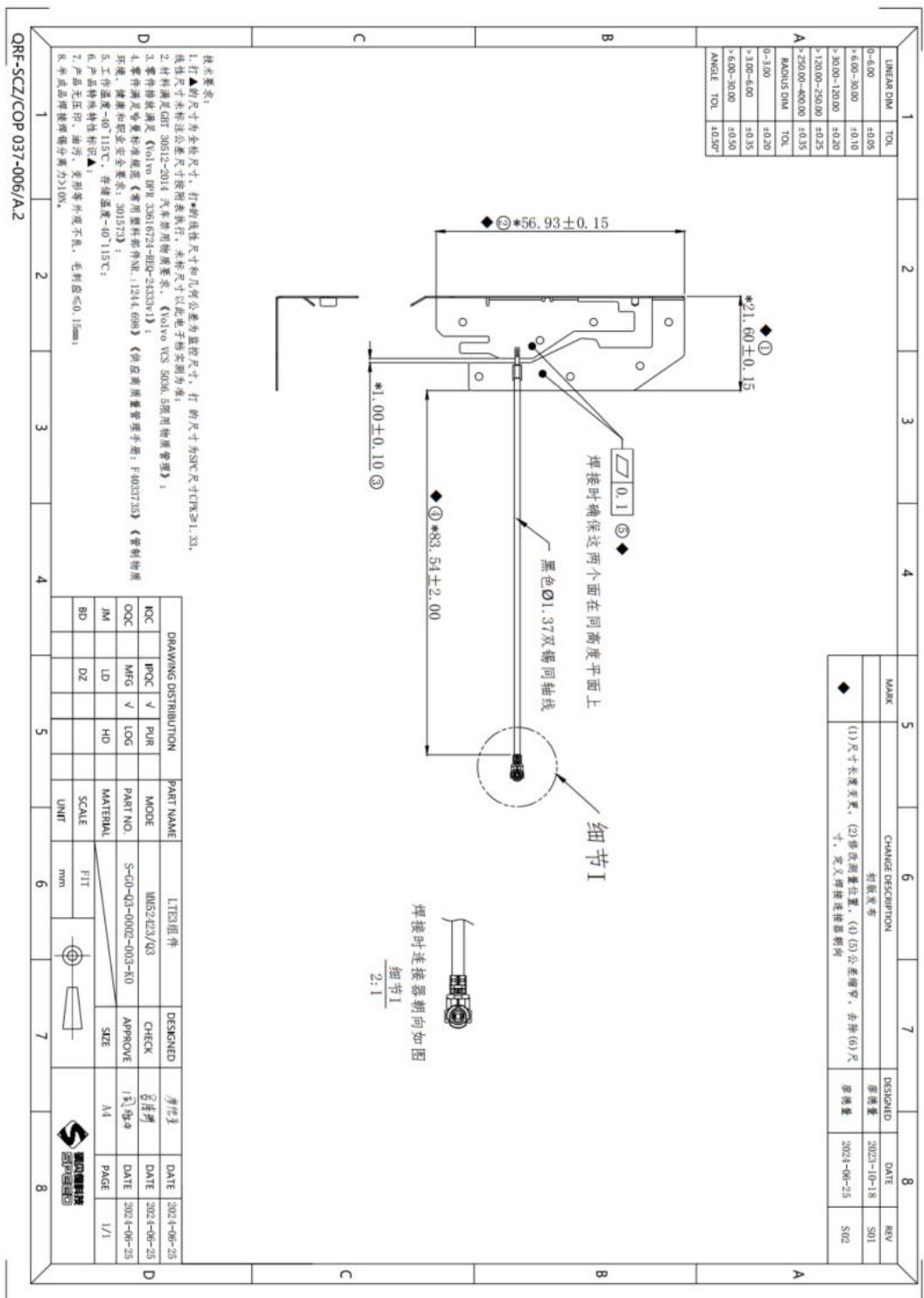
MARK **CHANGE DESCRIPTION** **DESIGNED** **DATE** **REV**

◆ (1) (3)长度减短, (5)(7)去掉且挖要求 **初版发布** **2023-10-18** **S01**

◆ (2) **厚度量** **2024-06-25** **S01**

1 **2** **3** **4** **5** **6** **7** **8**

QRF-SZCJ/COP 037-006/A.2

ANTENNA SPECIFICATION
LTE3 ANTENNA


ANTENNA SPECIFICATION

LTE4 ANTENNA

	1	2	3	4	5	6	7	8
	LINERAR DIM	TOL			MARK	CHANGE DESCRIPTION		
◆	(1) (2) (3) 尺寸长度变更， (4) (5) 公差稍窄，去除 (6) 尺寸，尺寸样线 连接器朝向，去处 (6) 尺寸，尺寸样线 移位量	◆	初版发布	草图	2023-10-19	S01		
RADIUS DIM	TOOL	0-3.00	>3.00-6.00	>6.00-30.00	>30.00-120.00	>120.00-250.00	>250.00-400.00	>400.00
ANGLE DIM	TOOL	<0.50	>0.50-3.00	>3.00-6.00	>6.00-30.00	>30.00-120.00	>120.00-250.00	>250.00-400.00

打▲的尺寸为全检尺寸，打■的尺寸为抽样尺寸，打○的尺寸为SPC R+CPK≥1.33时的尺寸。

4. 箱型满足包装机装箱要求，《常用塑料部件手册：1214.669》《供应商质量管理体系手册：F4033735》《塑料抽屉箱设计与制造安全要求：30157-3》；
 5. 工作温度-40~115℃，存储温度-40~115℃；
 6. 塑料抽屉：印、油、变形等外观不良，毛刺≤0.15mm；
 7. 塑料压印：油墨、变形等外观不良，毛刺≤0.15mm；
 8. 半成品接合强度（剪切力）：IN。

接时确保这两个面在同一高度平面上

焊接时连接器朝向如图
细节 I
2:1

2:1

6

DRAWING DISTRIBUTION		PART NAME	LITE组件	DESIGNED BY	DATE
LOC	IPQC	PUR	MODE	CHECK BY	DATE
QOC	MEG	LOG	PART NO	APPROVE BY	DATE
	✓		MBS2-E23/4Q3 S-GD-423-00062-004-KU	已审核	2024-06-25

QRF-SCZ/COP 037-006/A.2

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ANTENNA SPECIFICATION

BLE ANTENNA

	1	2	3	4	5	6	7	8
UNILINE DIM	TOL				CHANGE DESCRIPTION			
MARK					新版本号	旧版本号	设计者	日期
0-6.00	± 0.05				(1)	(1)	罗伟强	2023-10-18
>6.00-30.00	± 0.10				(2)	(2)	罗伟强	2023-10-18
>30.00-120.00	± 0.20				(3)	(3)	罗伟强	2023-10-18
>120.00-250.00	± 0.25				(4)	(4)	罗伟强	2023-10-18
>250.00-400.00	± 0.35				(5)	(5)	罗伟强	2023-10-18
RADIUS DIM	TOL				(6)	(6)	罗伟强	2023-10-18
0-3.00	± 0.20				(7)	(7)	罗伟强	2023-10-18
>3.00-6.00	± 0.35				(8)	(8)	罗伟强	2023-10-18
>6.00-30.00	± 0.50				(9)	(9)	罗伟强	2023-10-18
ANGLE TOL		10.50°						

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技术要求：
1. 正确的尺寸和公差尺寸，标注清晰尺寸和公差，尺寸标注应符合 GB/T 1031-2005

1. 电子元件：采用贴片元件，如贴片电容、贴片电感、贴片二极管等，以提高可靠性。
2. 热材料：使用耐温材料，如耐温漆、耐温胶、耐温垫片等，以确保在高温环境下正常工作。
3. 金属材料：使用耐温金属，如不锈钢、耐温铜等，以提高耐温性能。
4. 常用满足要求的规格书：《常用塑料元件手册》：1244-698；《供应商质量管理体系手册》：F4033735；《供应商质量管理体系手册》：F4033735；《供应商质量管理体系手册》：F4033735。
5. 工作温度：-40~150℃，存储温度：-40~150℃。
6. 产品包装：使用防潮、防震、防静电包装，确保产品在运输过程中不受损坏。
7. 产品压强：采用气密性测试，确保产品无泄漏。
8. 产品强度：通过拉伸、弯曲、剪切等测试，确保产品强度满足要求。

QRF-SCZ/COP 037-006/A.2

ANTENNA SPECIFICATION

PN	Name	Material	Remark
S-1H-Q3-0002-001-K0	TOP COVER	SABIC LEXAN ML7694-Black	
S-23-Q3-0002-001-K0	LTE1 ANTENNA	LTE1 ELEMENT:SUS 304	
S-G0-Q3-0002-002-K0	LTE2 ANTENNA	LTE2 ELEMENT:SUS 304	
S-G0-Q3-0002-003-K0	LTE3 ANTENNA	LTE3 ELEMENT:SUS 304	
S-G0-Q3-0002-004-K0	LTE4 ANTENNA	LTE4 ELEMENT:SUS 304	
S-G0-Q3-0002-005-K0	BLE ANTENNA	BLE ELEMENT:SUS 304	