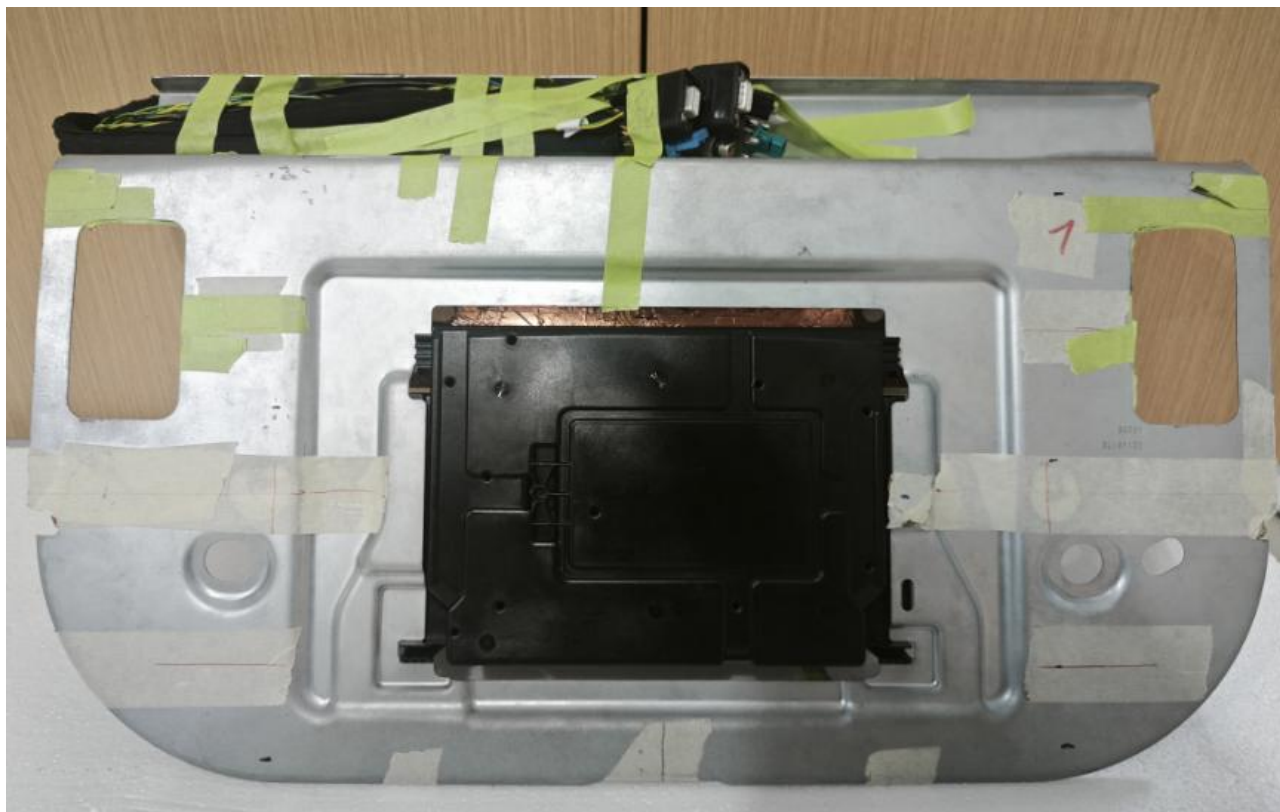


## ANTENNA SPECIFICATION

**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	

**4.LTE4**

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	

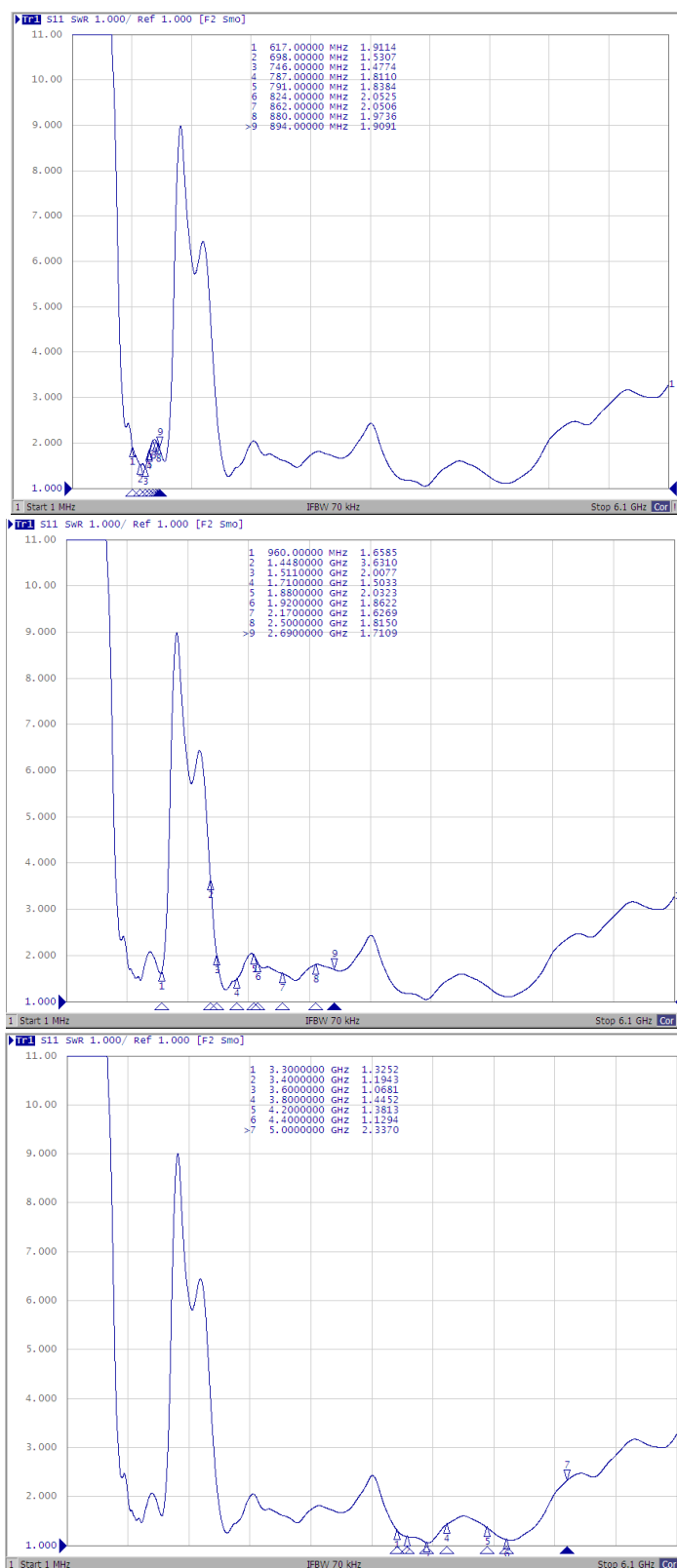
**5.BLE**

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

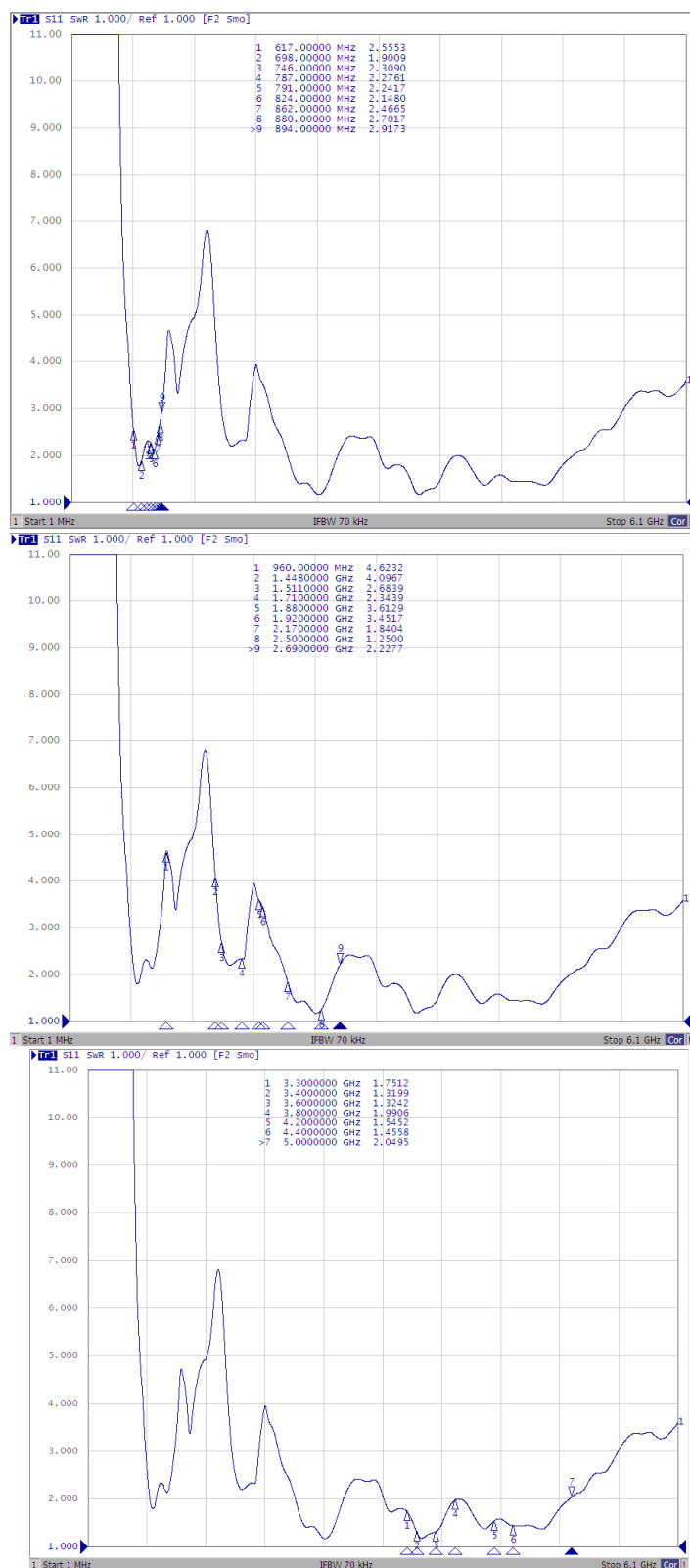
### ● V.S.W.R

#### 1. LTE1



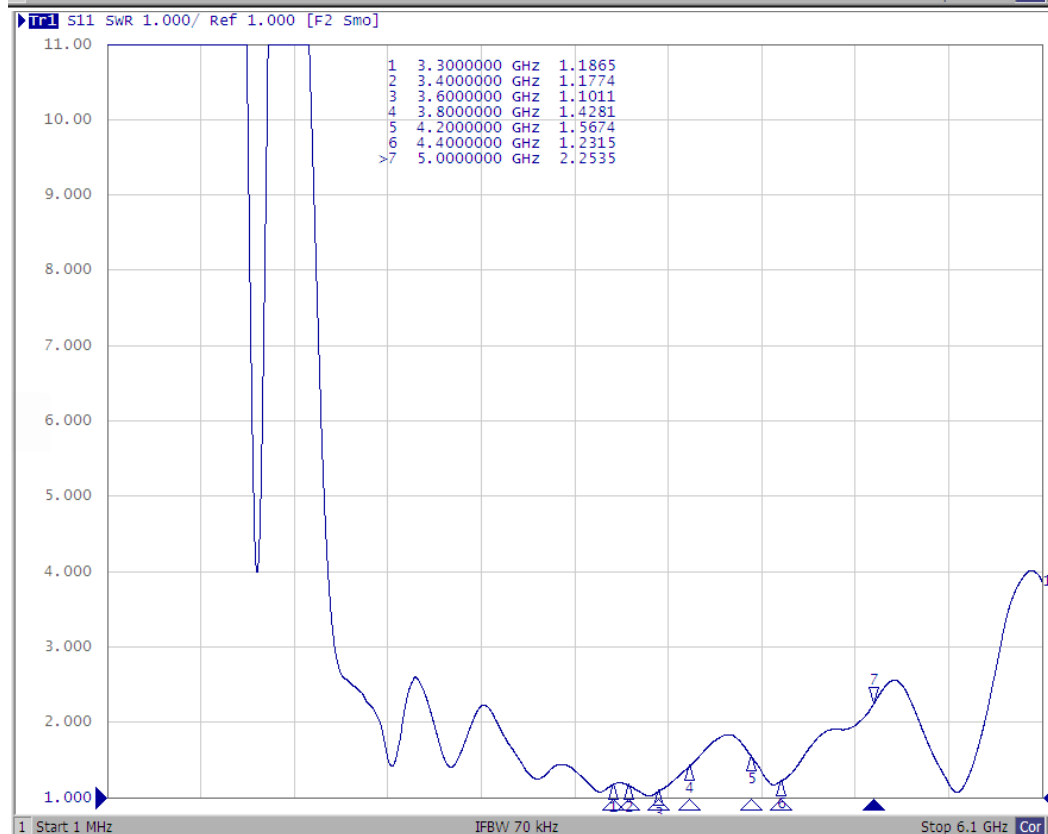
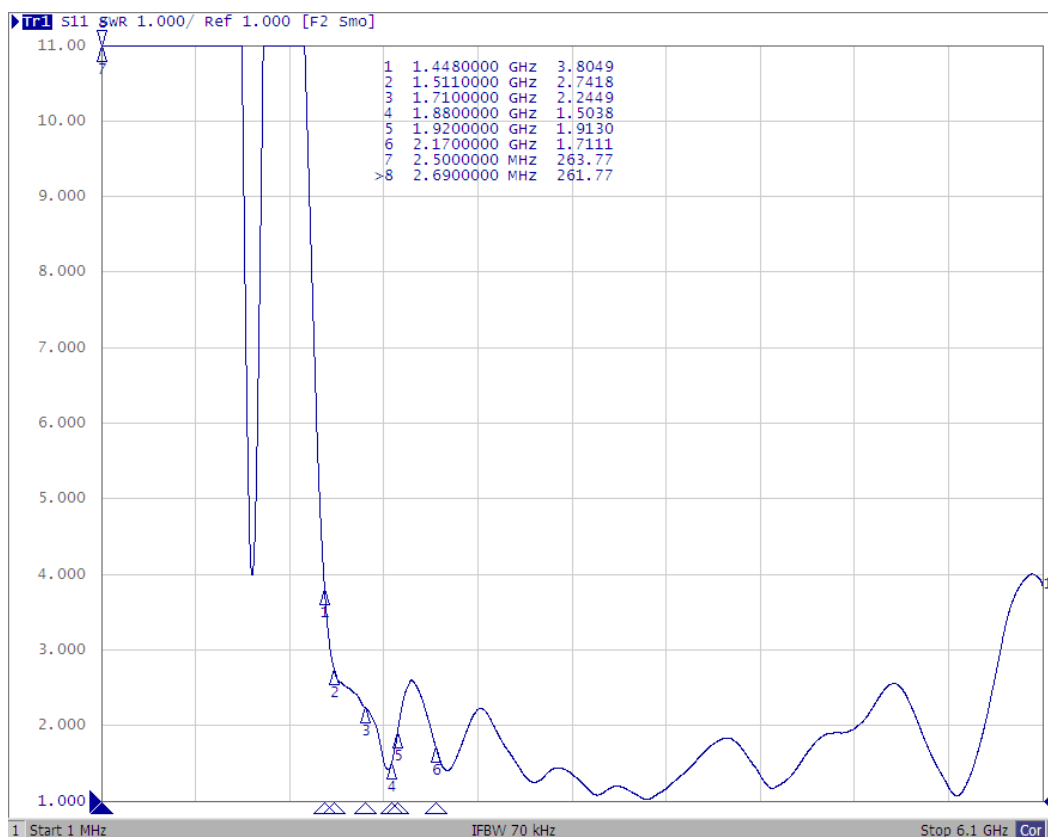
## ANTENNA SPECIFICATION

### 2.LTE2



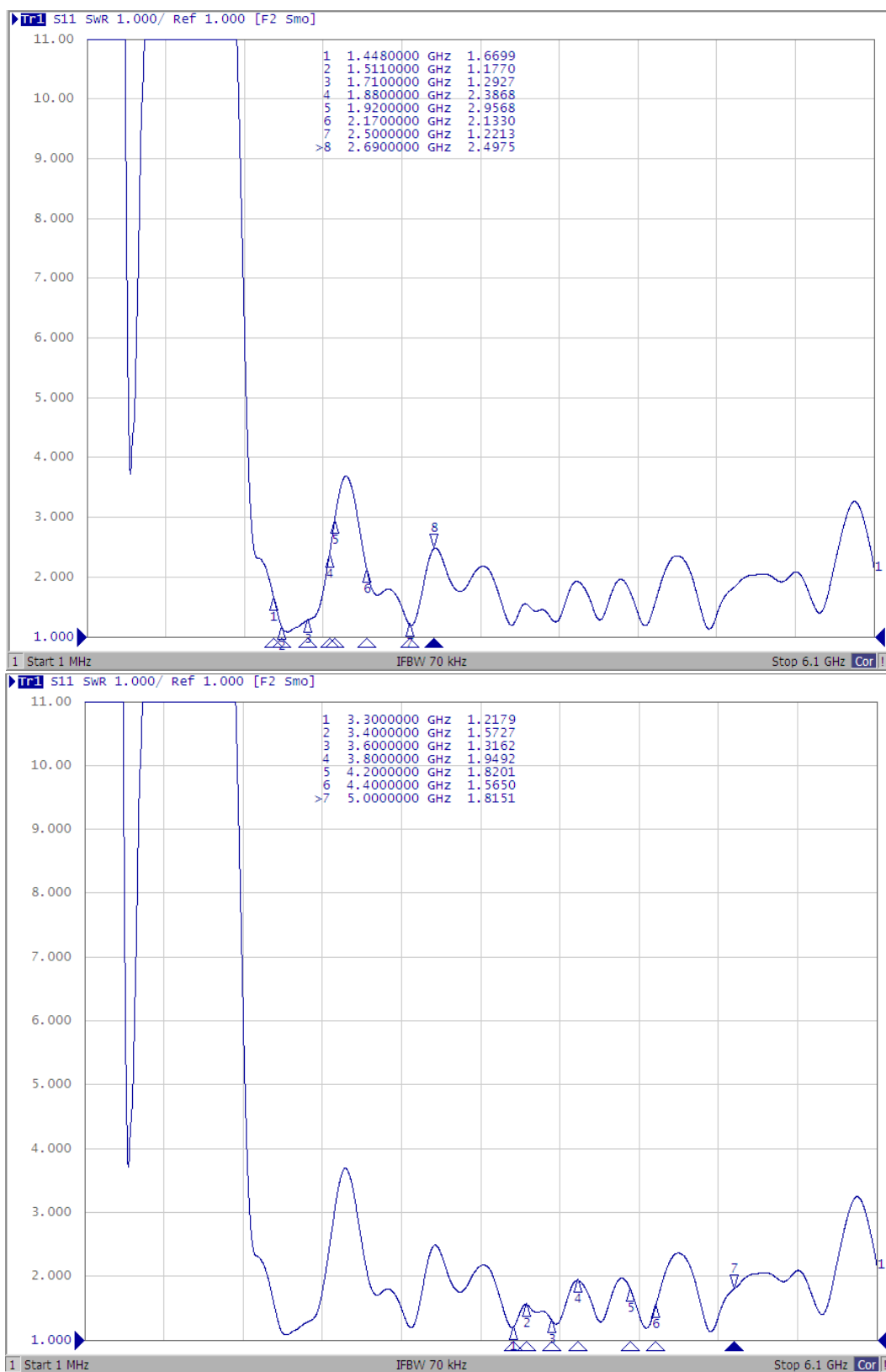
## ANTENNA SPECIFICATION

### 3.LTE3



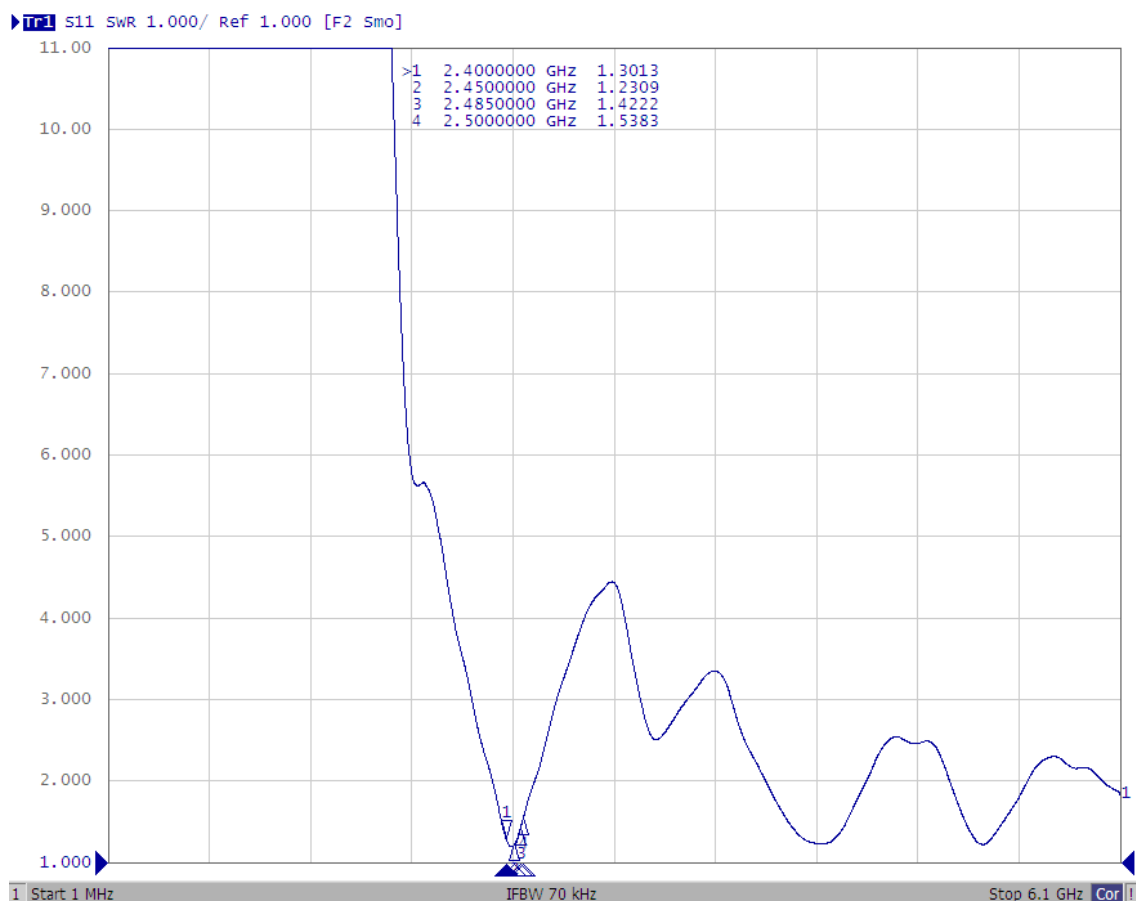
## ANTENNA SPECIFICATION

### 4.LTE4



## ANTENNA SPECIFICATION

### 5.BLE



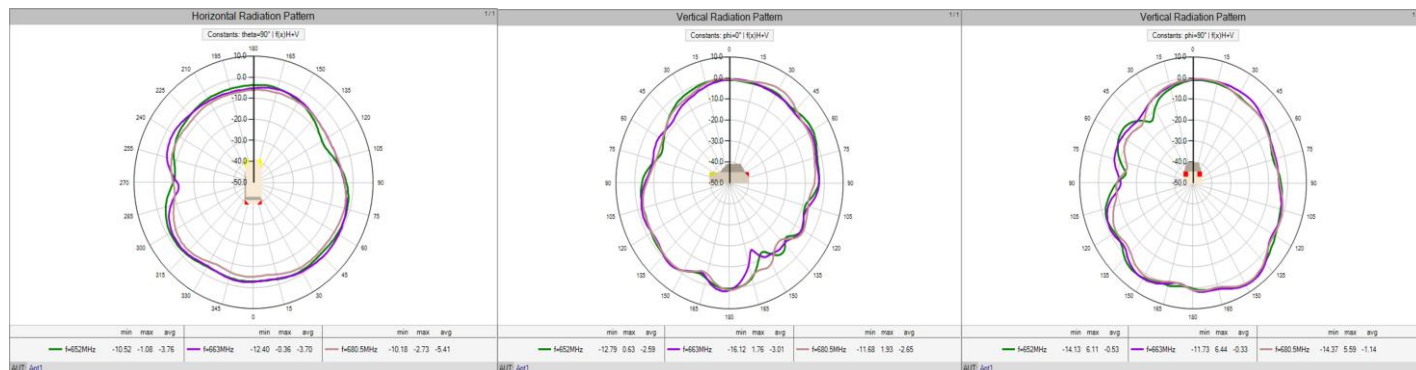


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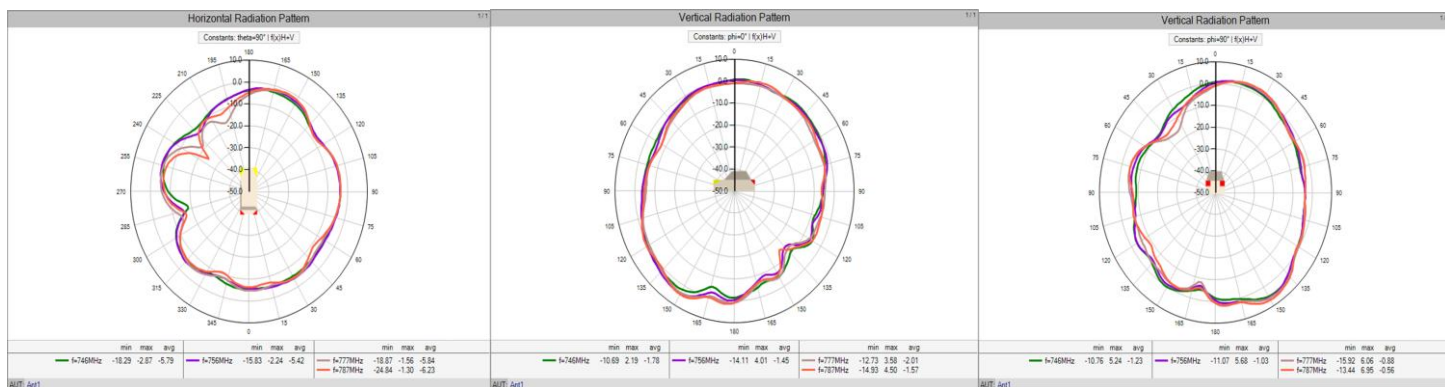
### ● BEAM PATTERN

#### 1. LTE1

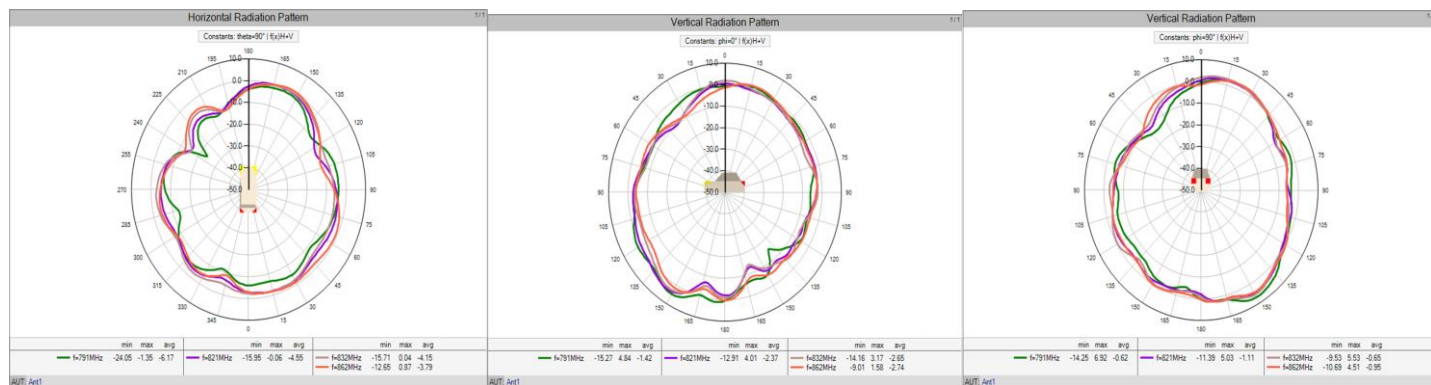
##### - B71



##### - B13



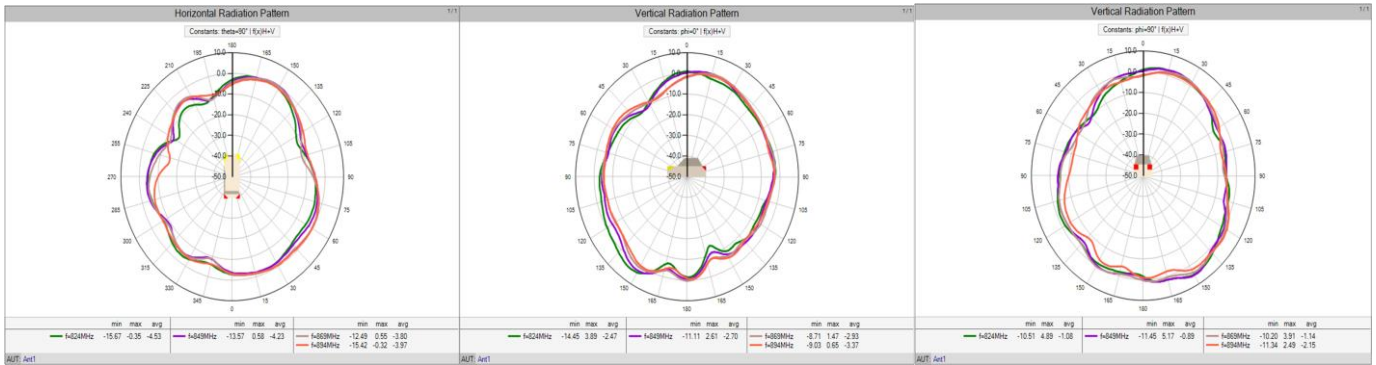
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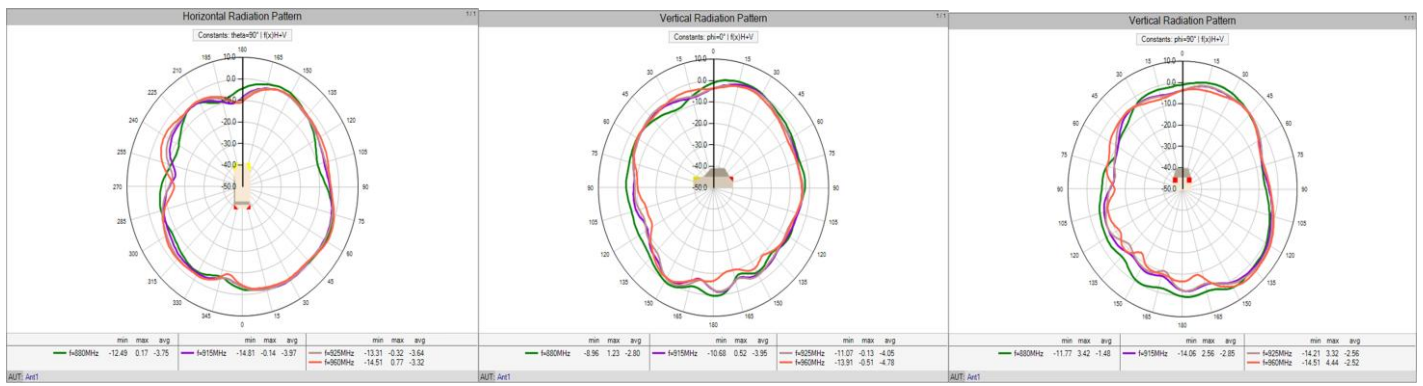


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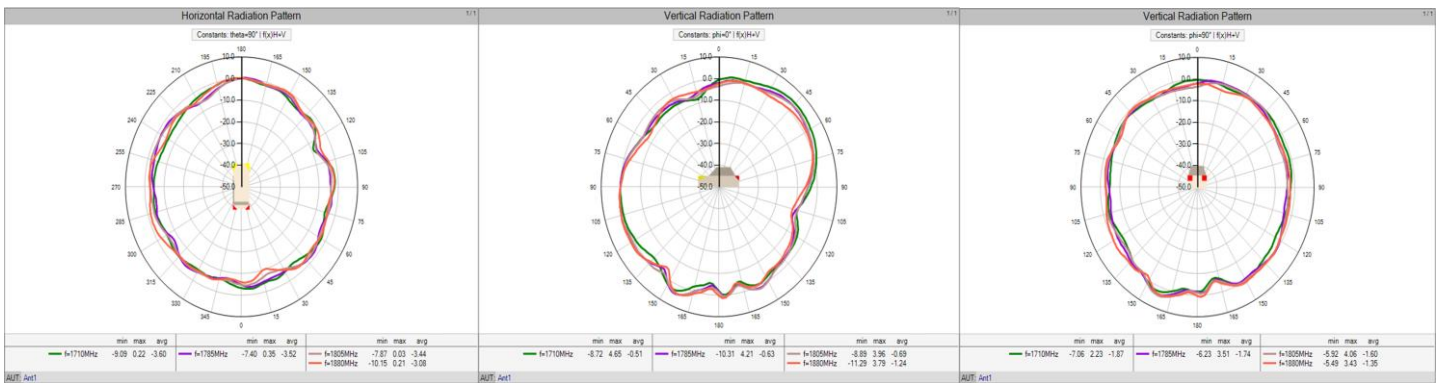
### - B5



### - B8



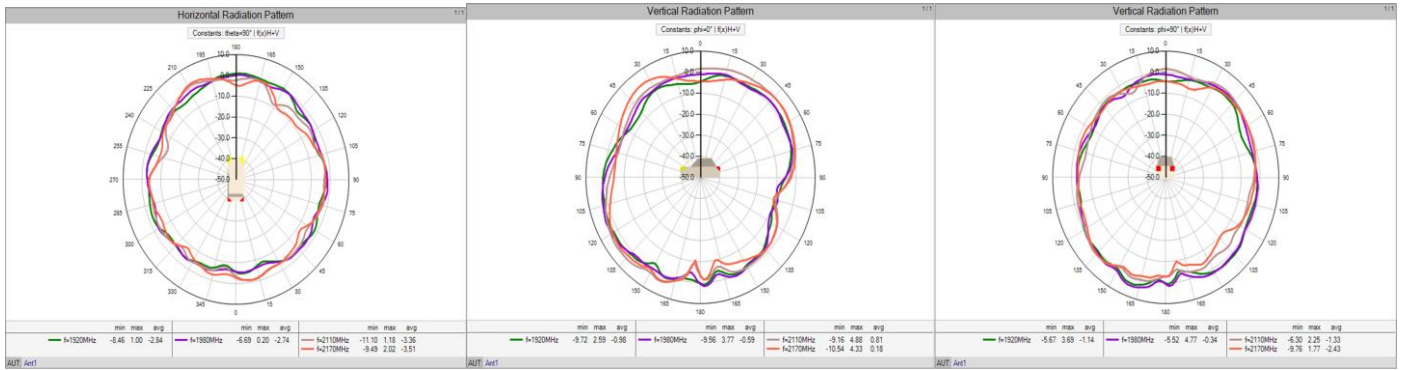
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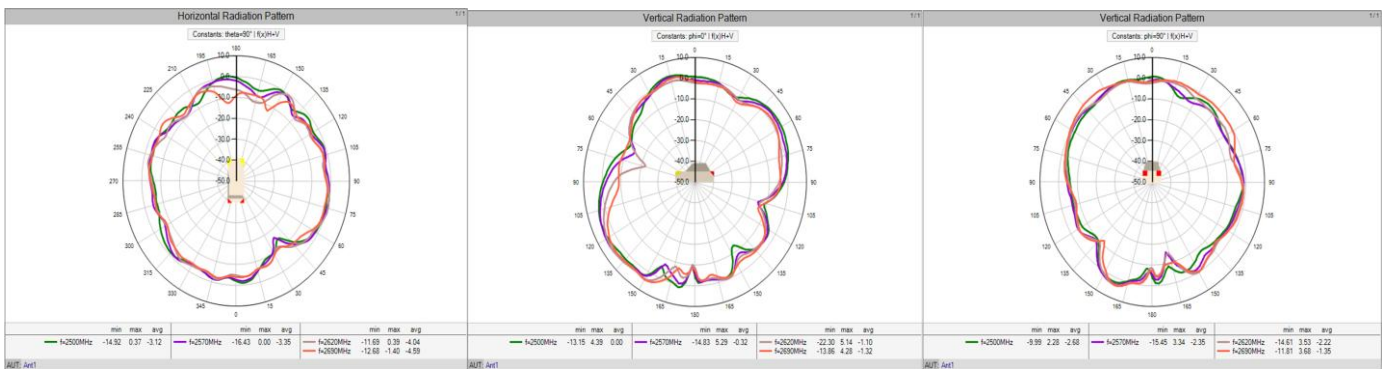


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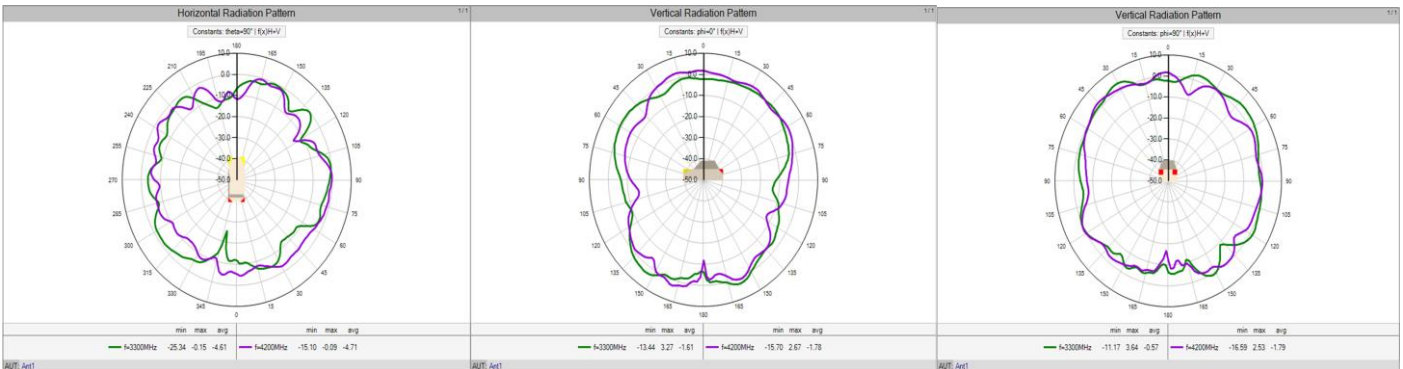
### - B1



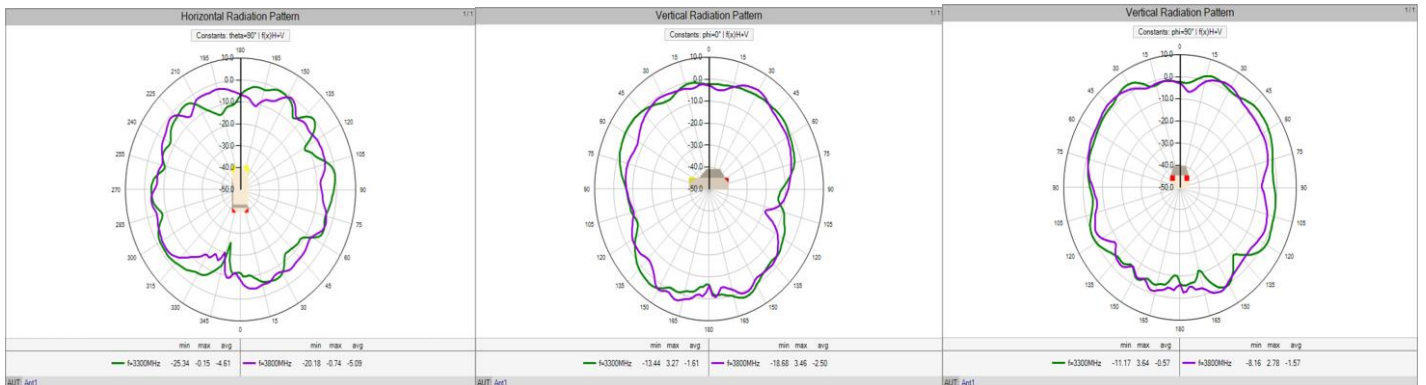
### - B7



### - N77



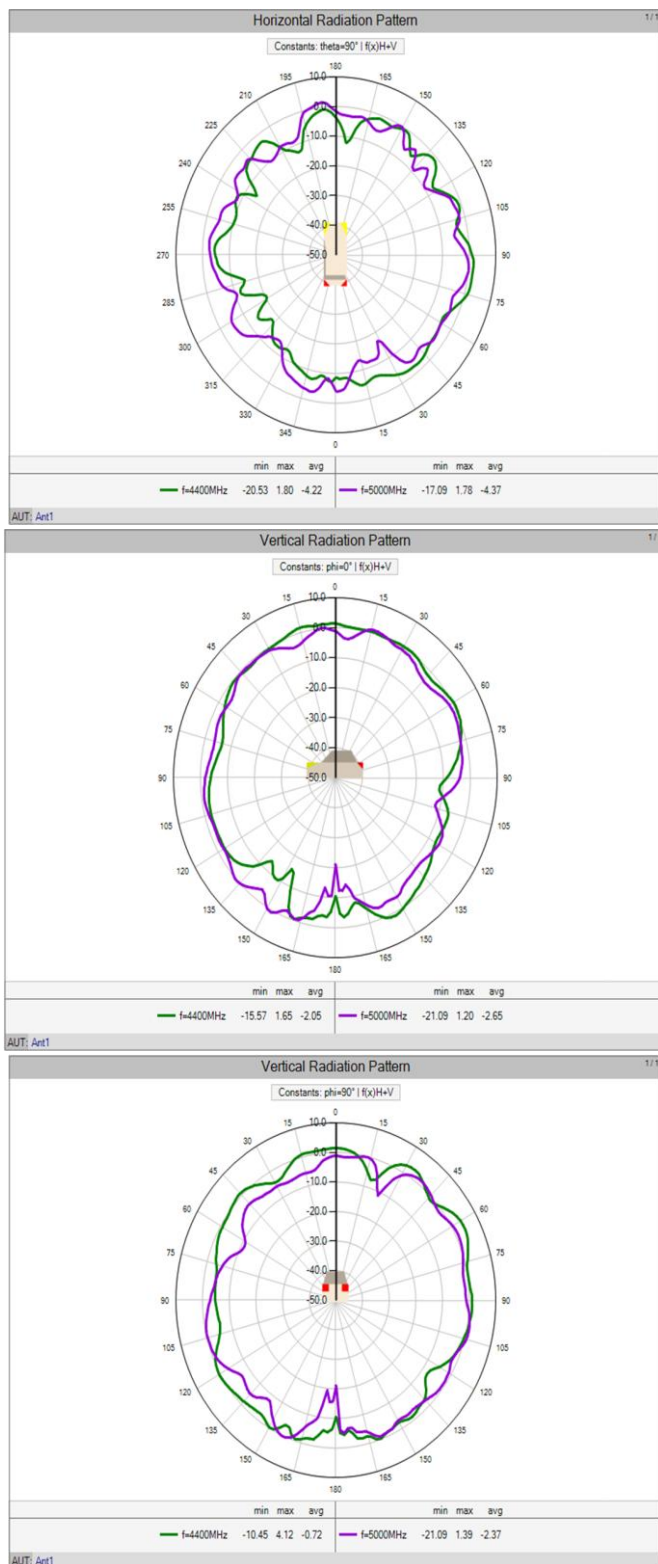
### - N78





## ANTENNA SPECIFICATION

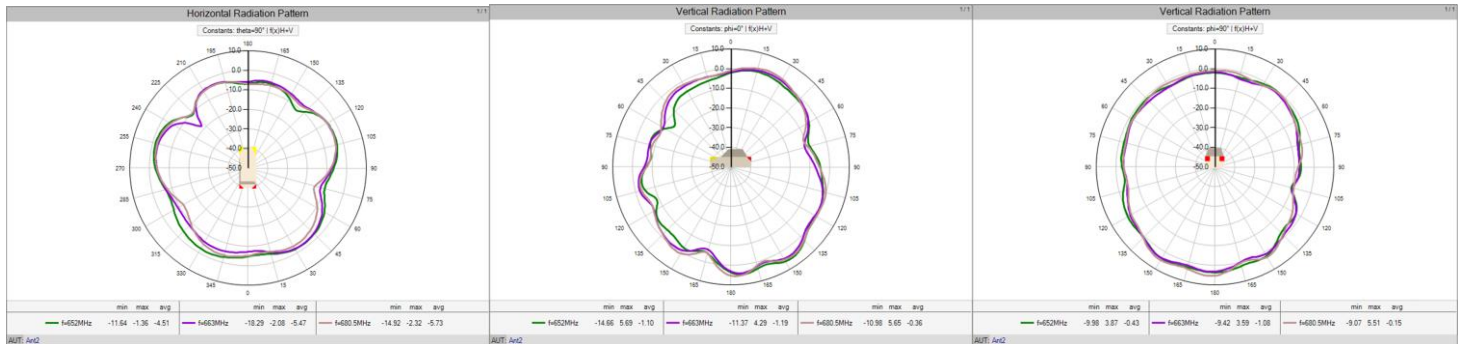
N79



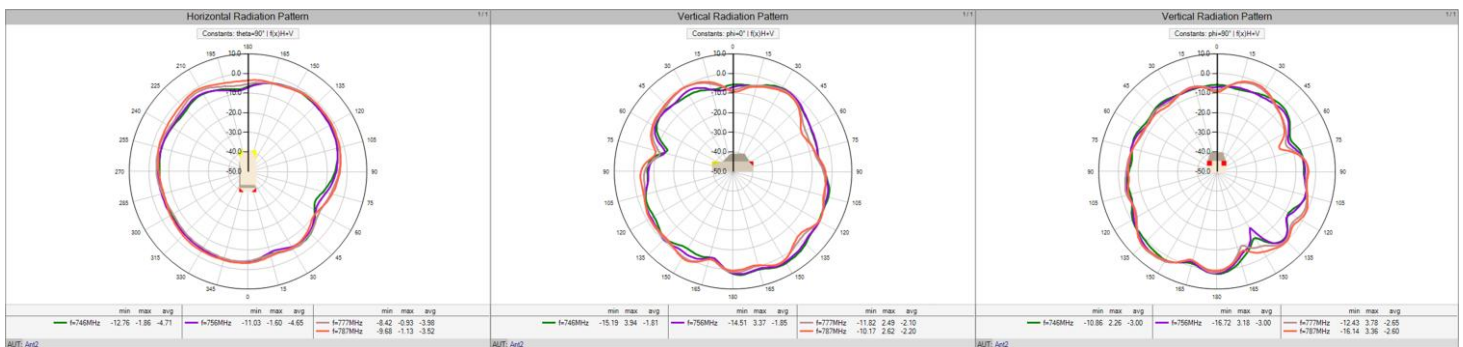
## ANTENNA SPECIFICATION

### 2.LTE2

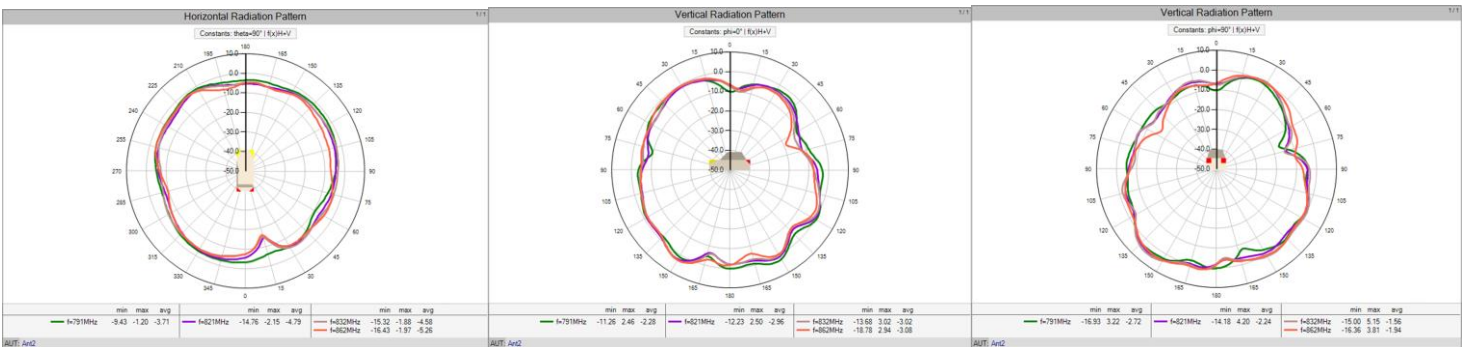
#### - B71



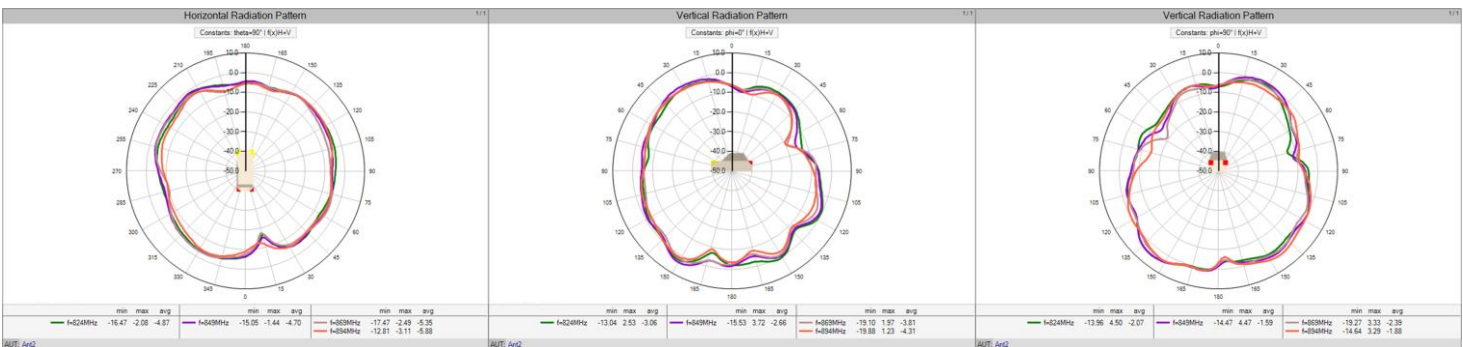
#### - B13



#### - B20

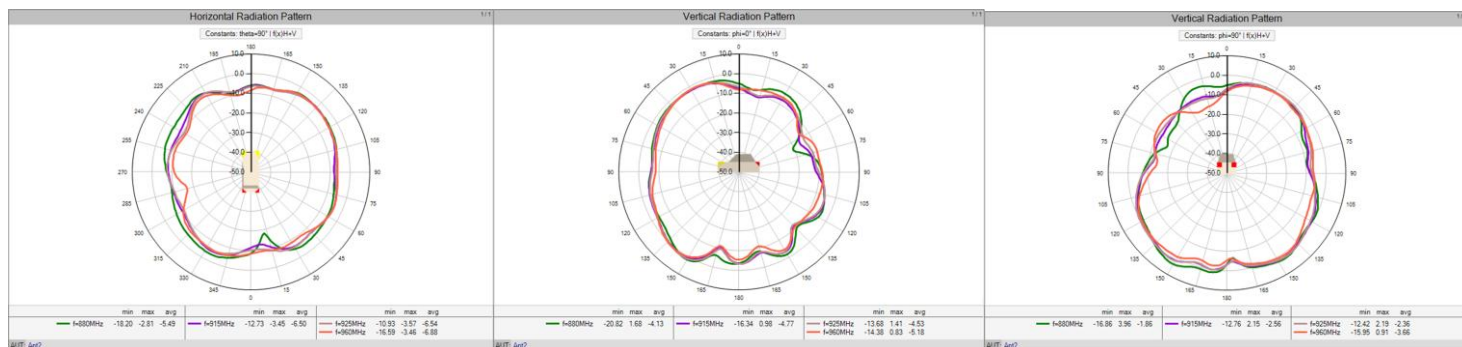


#### - B5

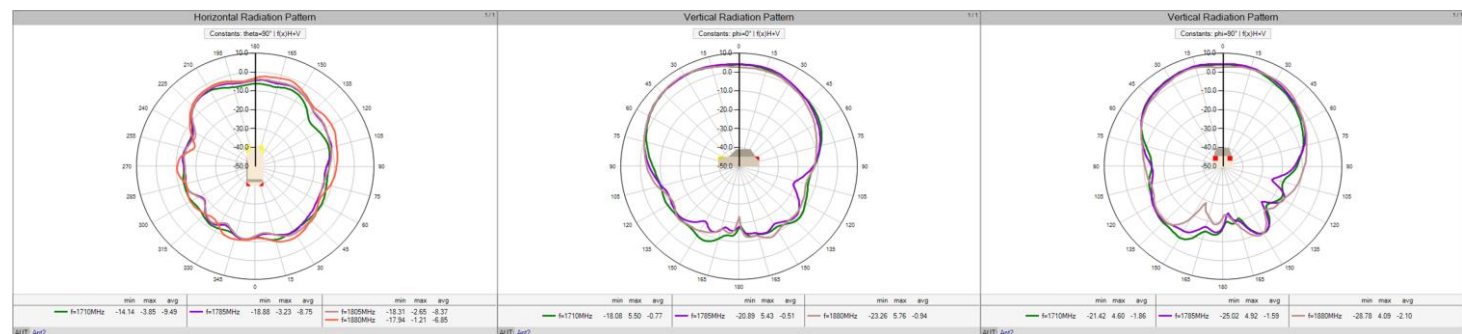


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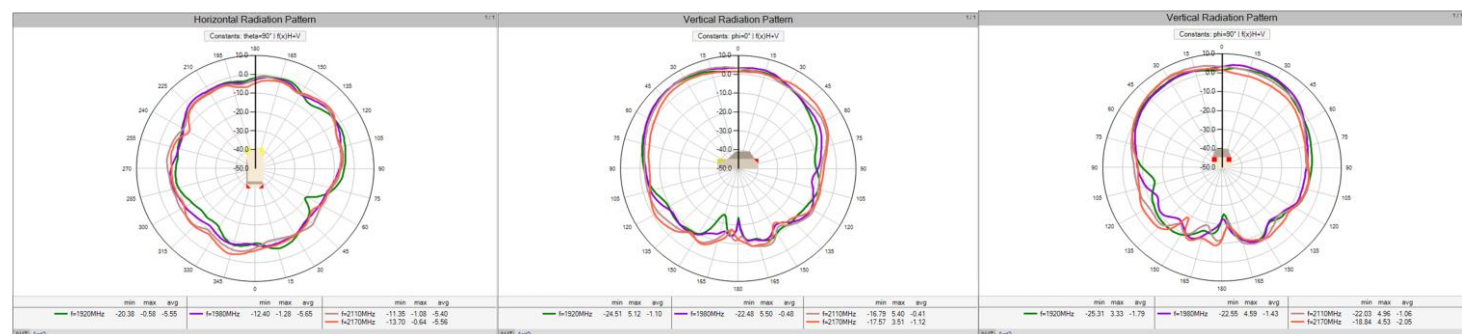
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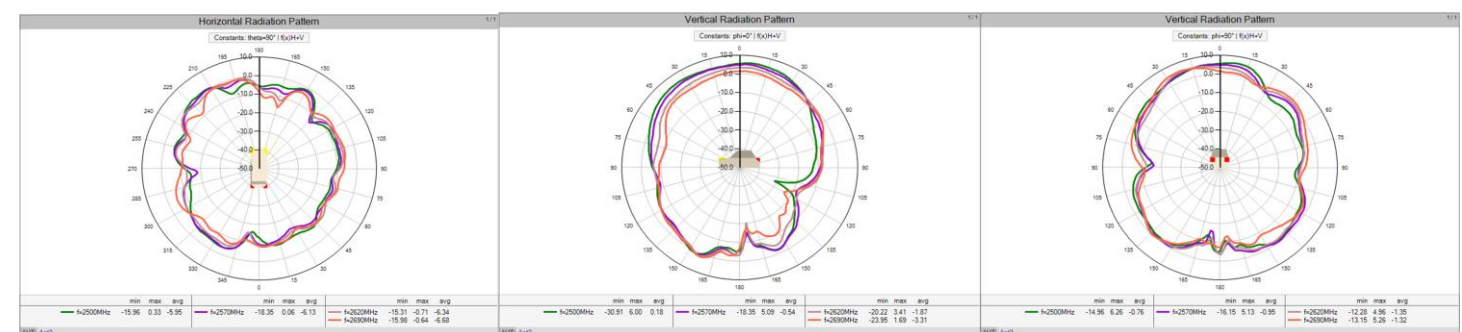
### - B3



### - B1



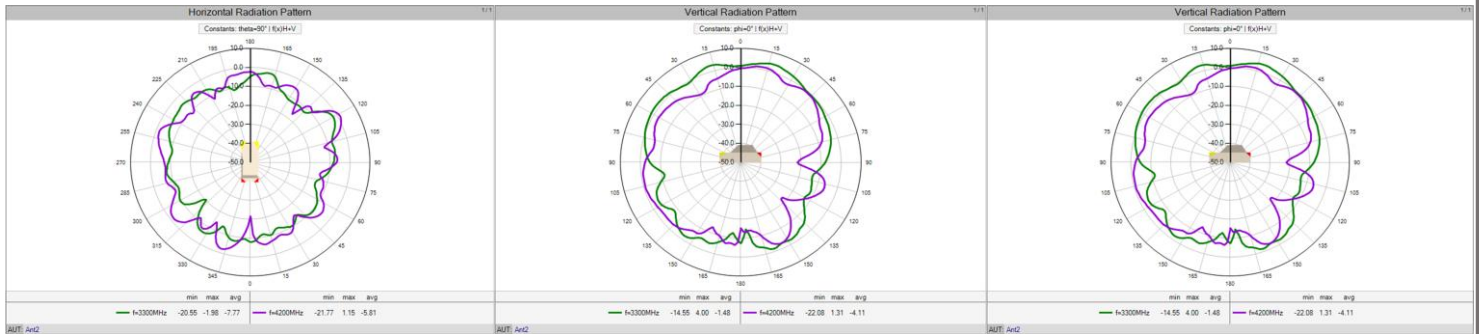
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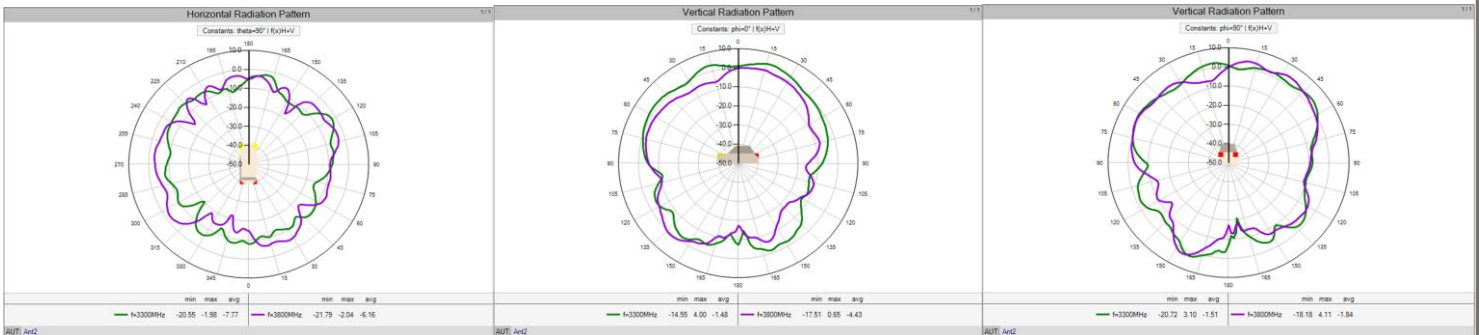


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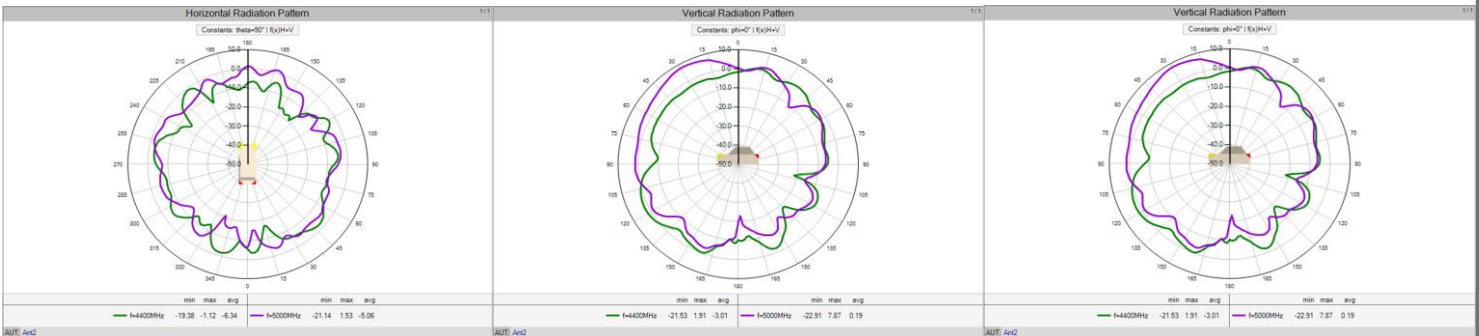
### - N77



### - N78



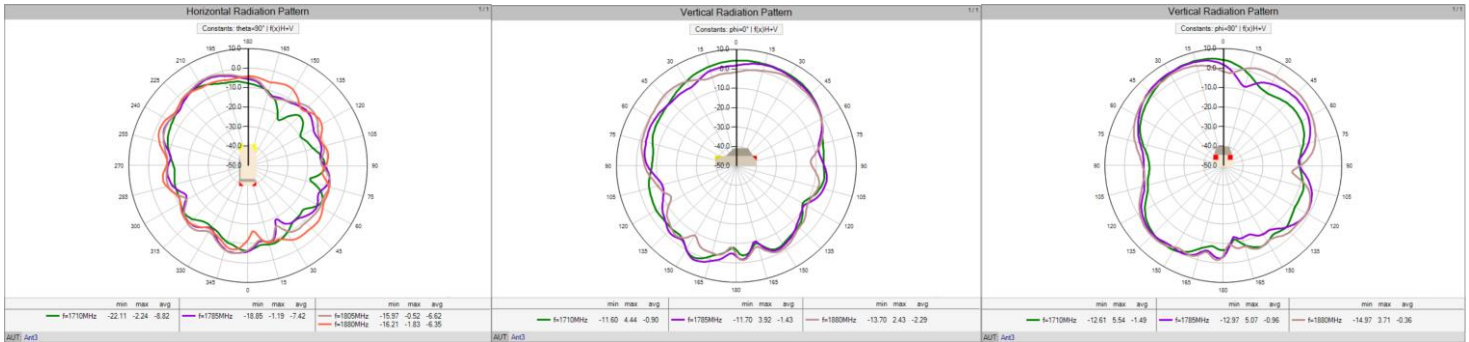
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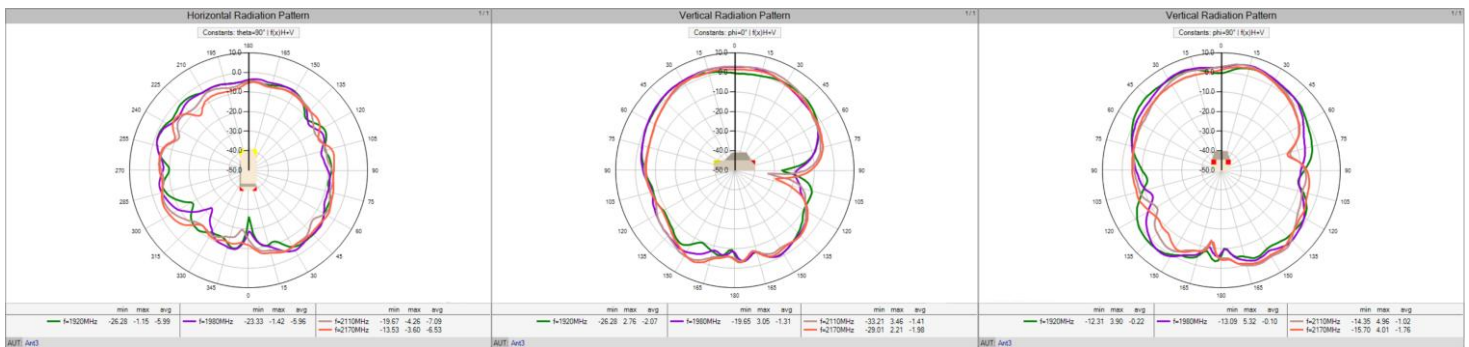
## ANTENNA SPECIFICATION

### 3.LTE3

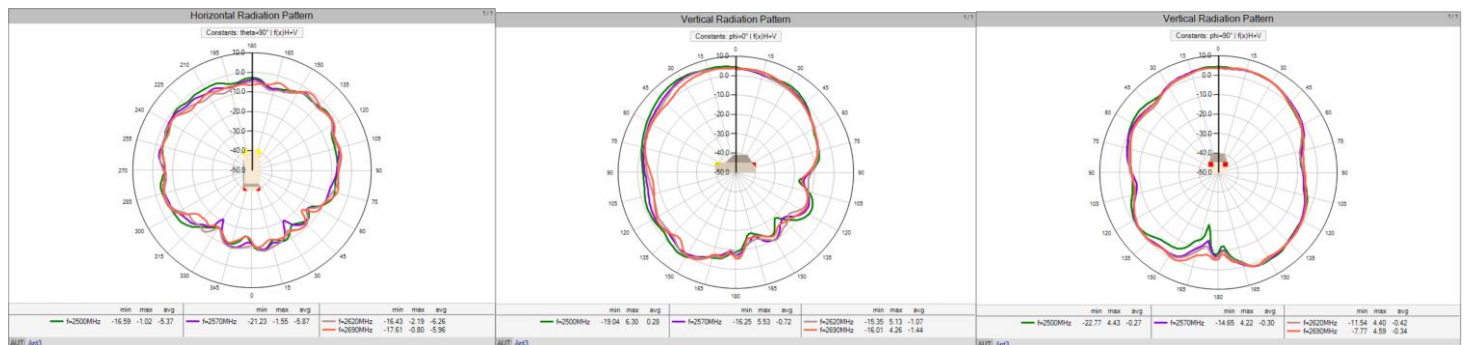
#### - B3



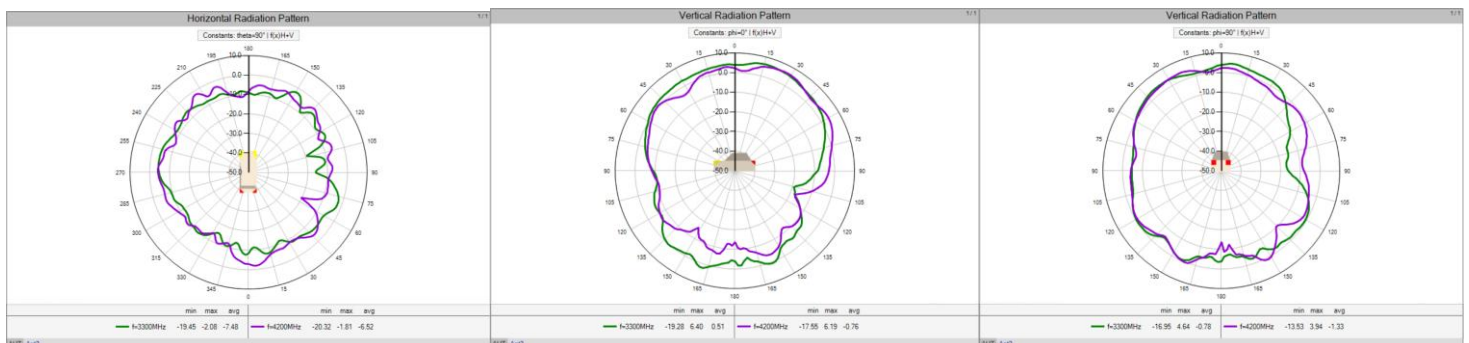
#### - B1



#### - B7



#### - N77

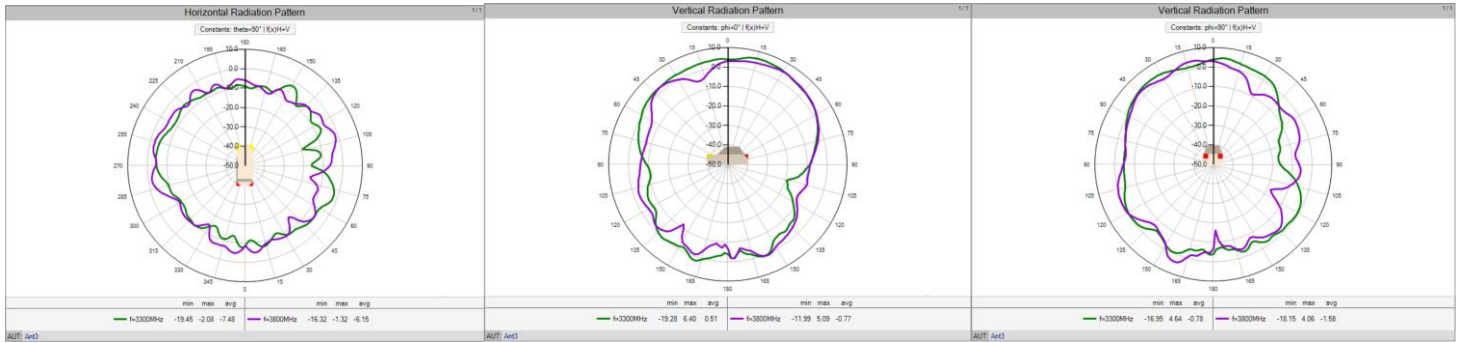




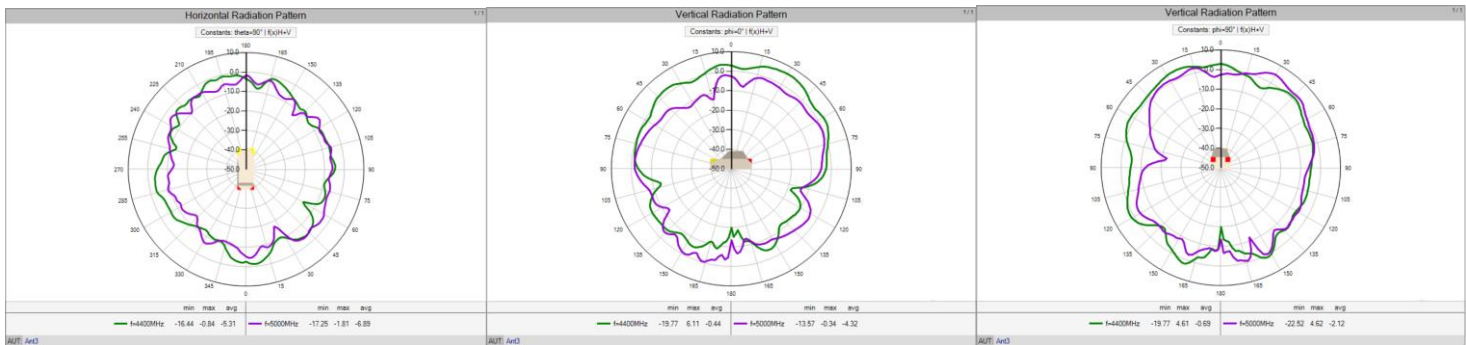


## ANTENNA SPECIFICATION

### - N78



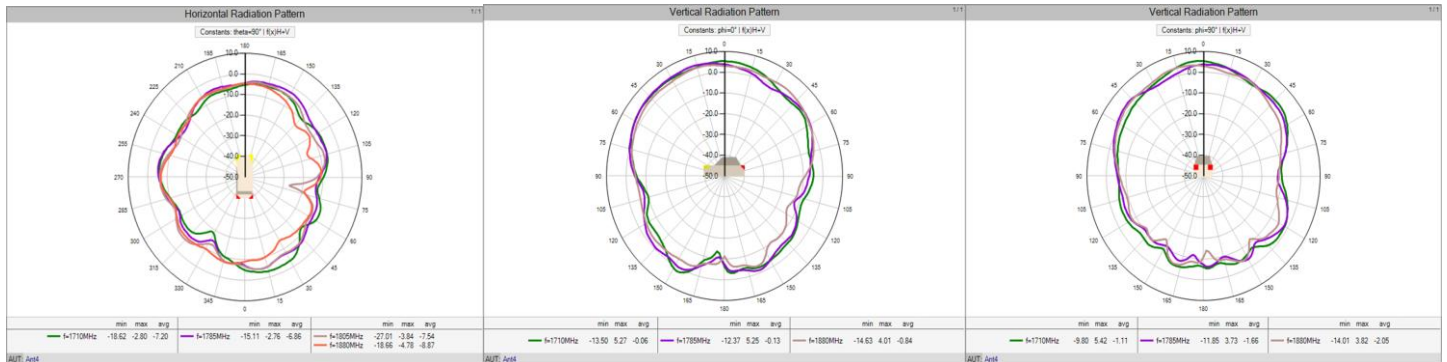
### - N79



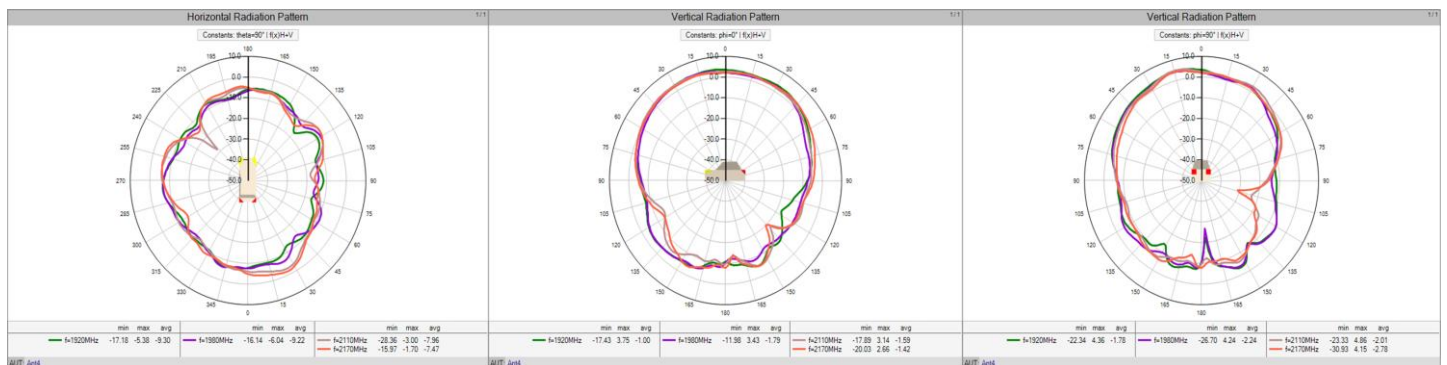
## ANTENNA SPECIFICATION

### 4.LTE4

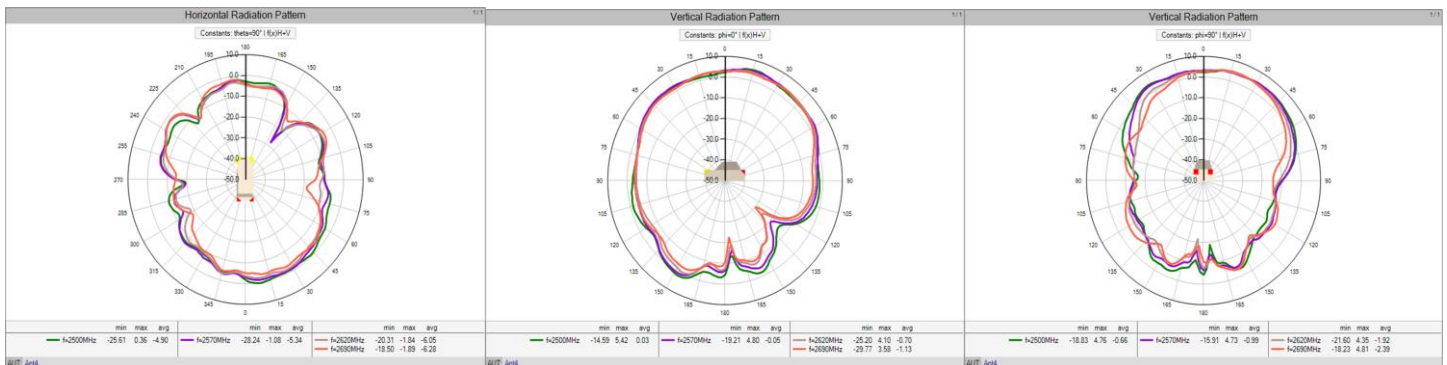
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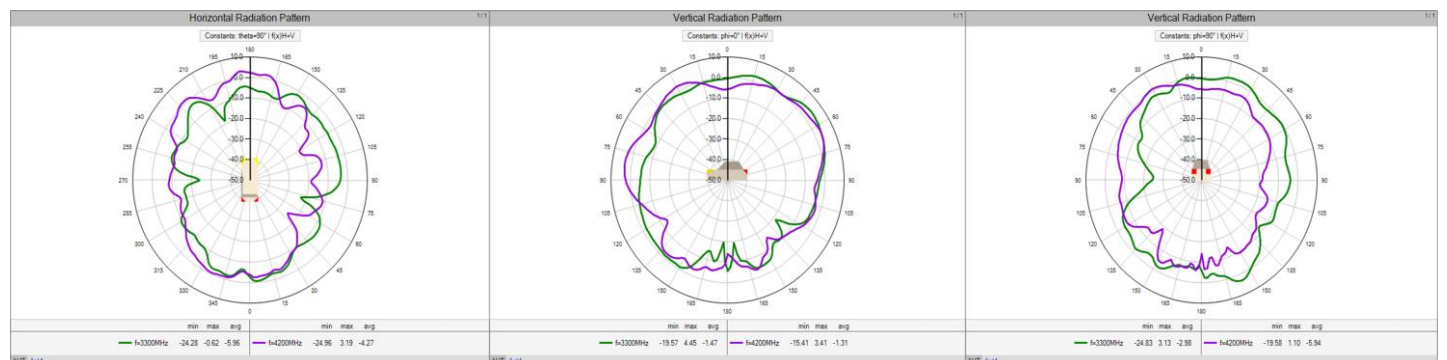
#### - B1



#### - B7



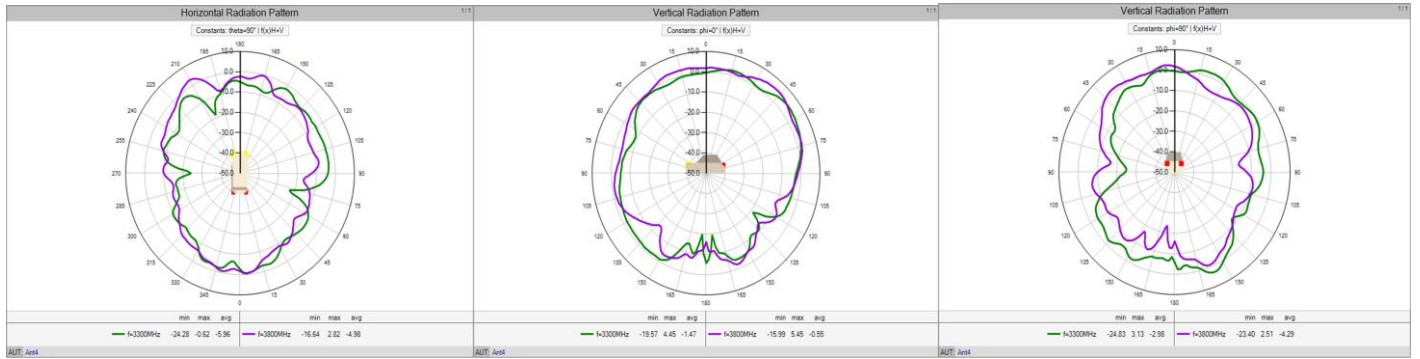
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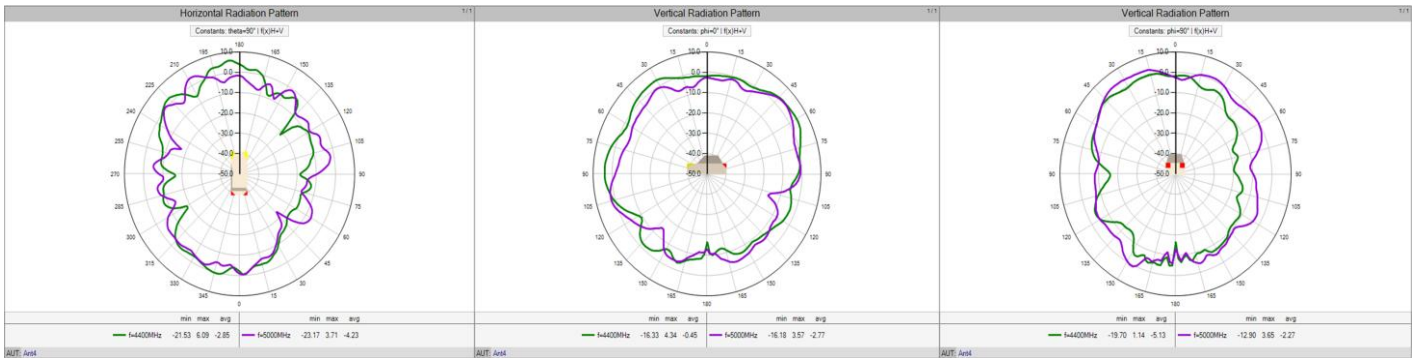


## ANTENNA SPECIFICATION

### - N78



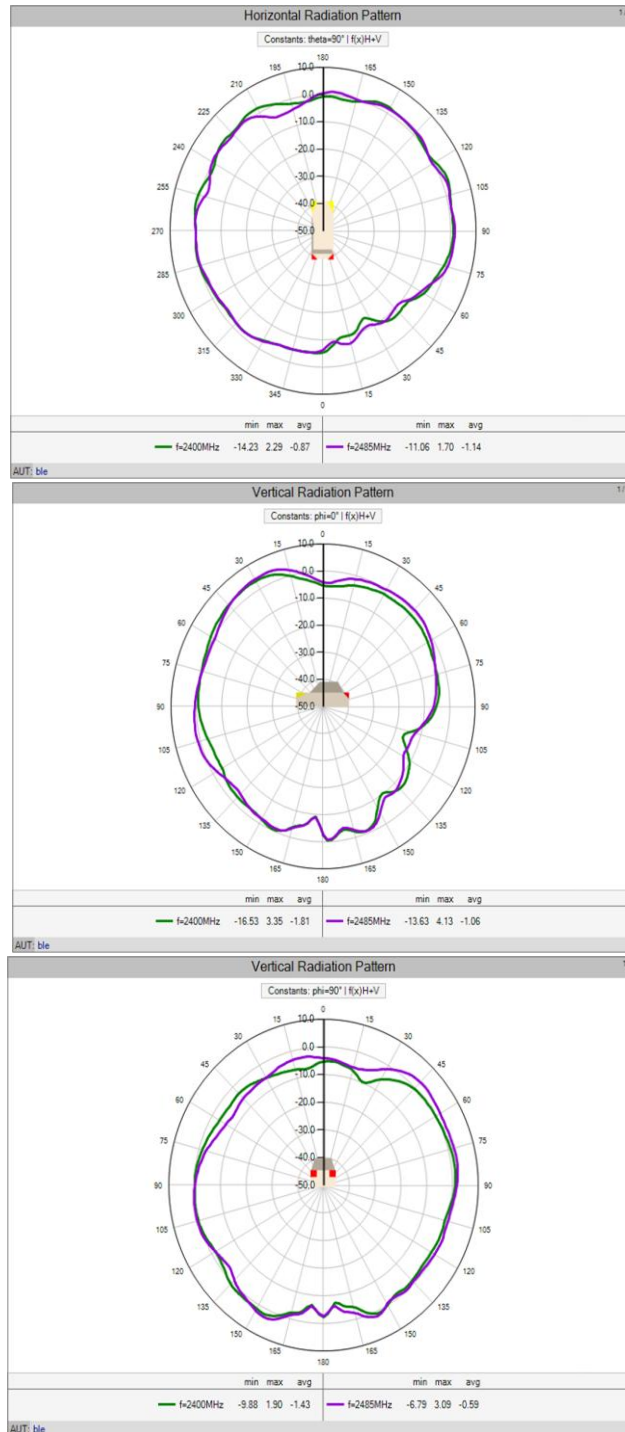
### - N79



## ANTENNA SPECIFICATION

### 5.BLE

#### - BLE

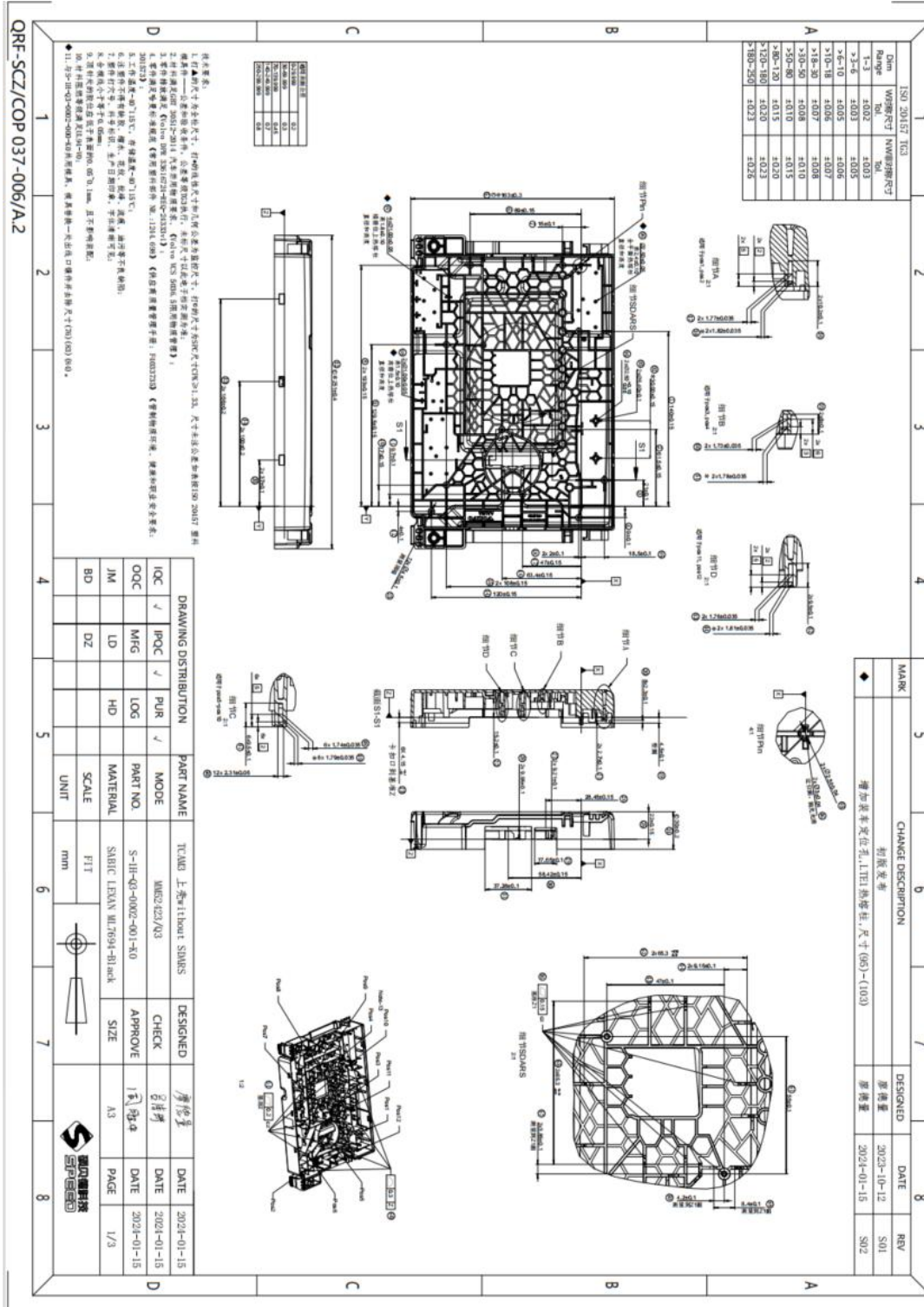






## ANTENNA SPECIFICATION

### ● PRODUCT DRAWING TOP COVER SET

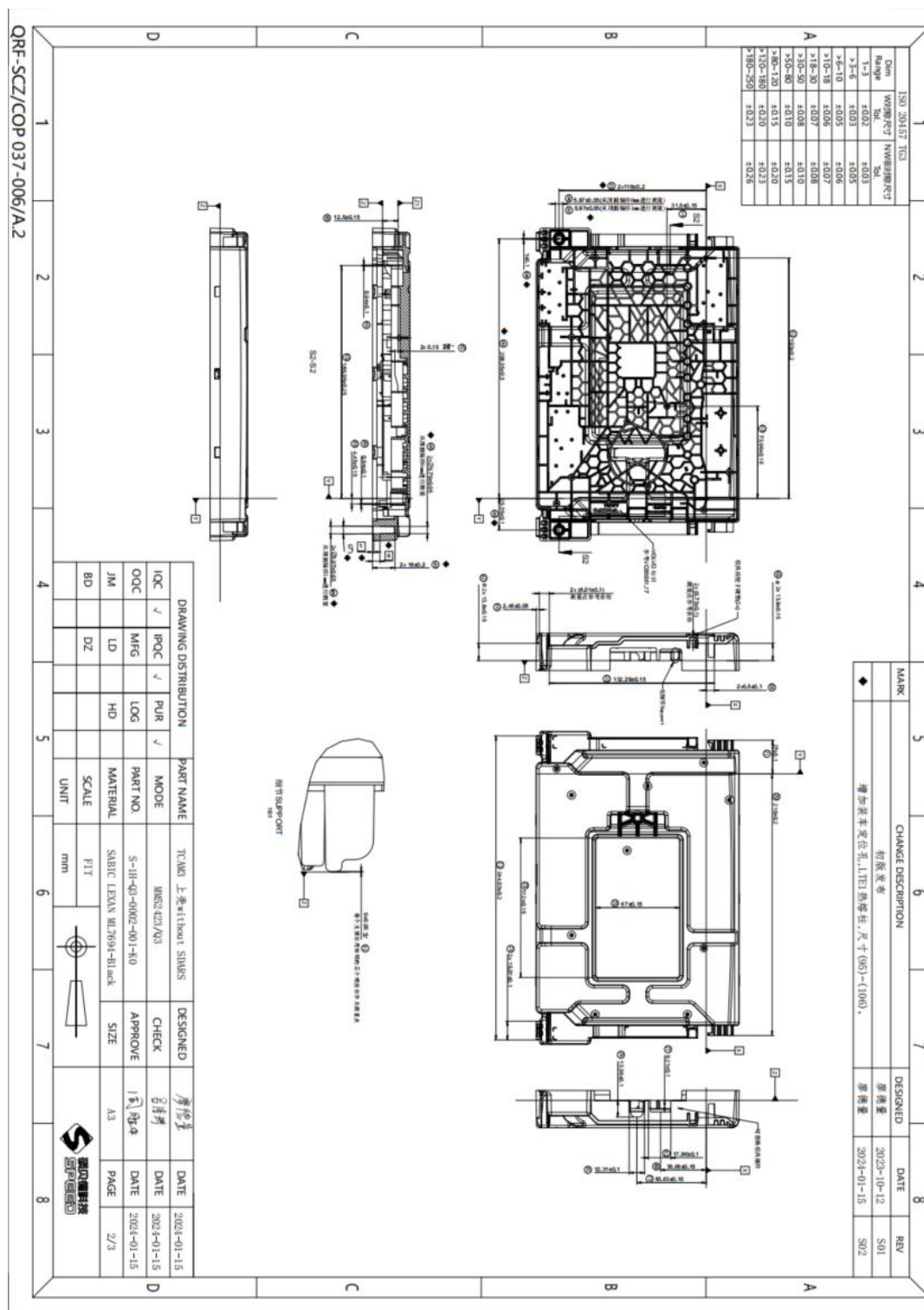




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## ANTENNA SPECIFICATION

TOP COVER



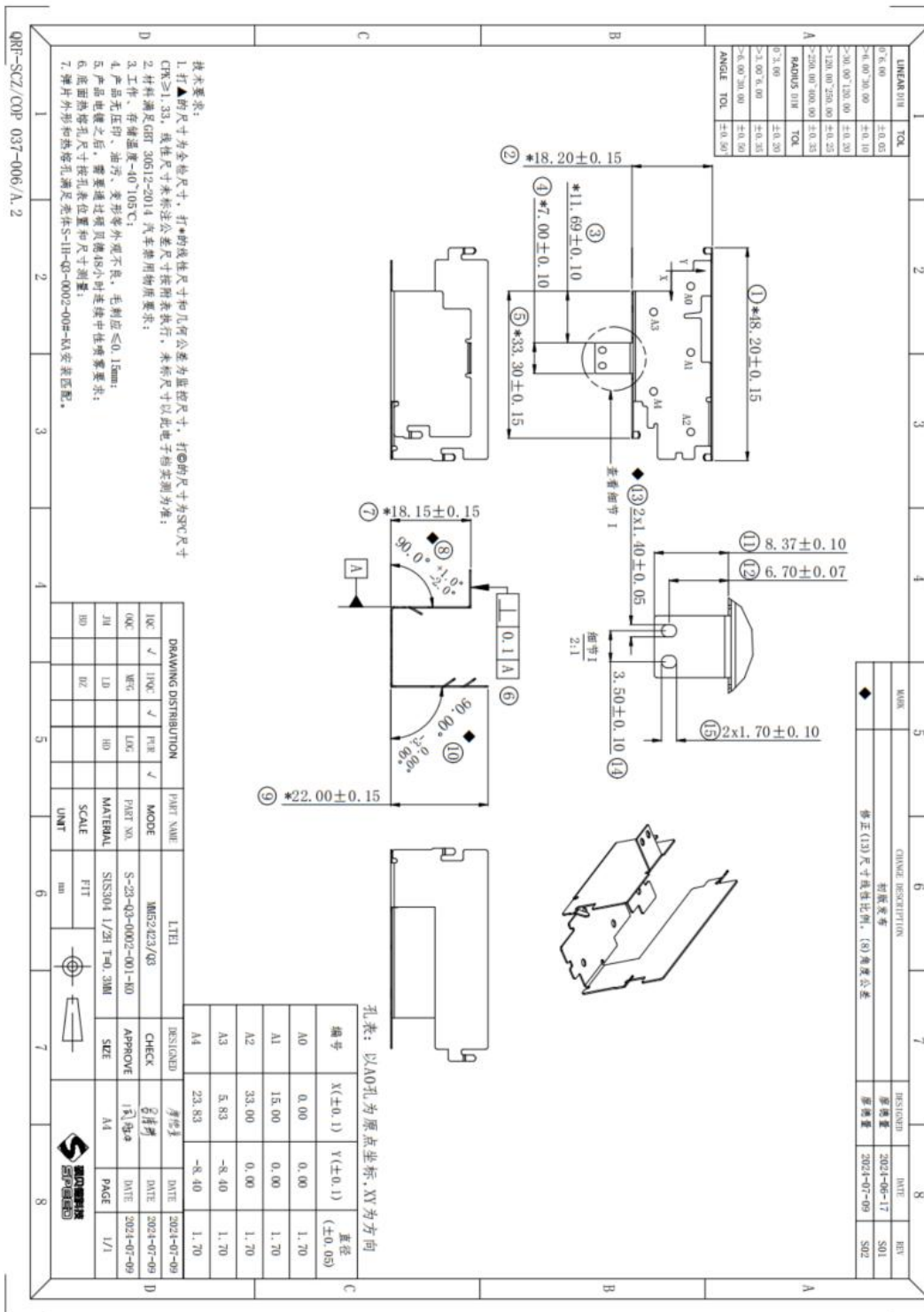


## ANTENNA SPECIFICATION

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# ANTENNA SPECIFICATION

## LTE1 ANTENNA

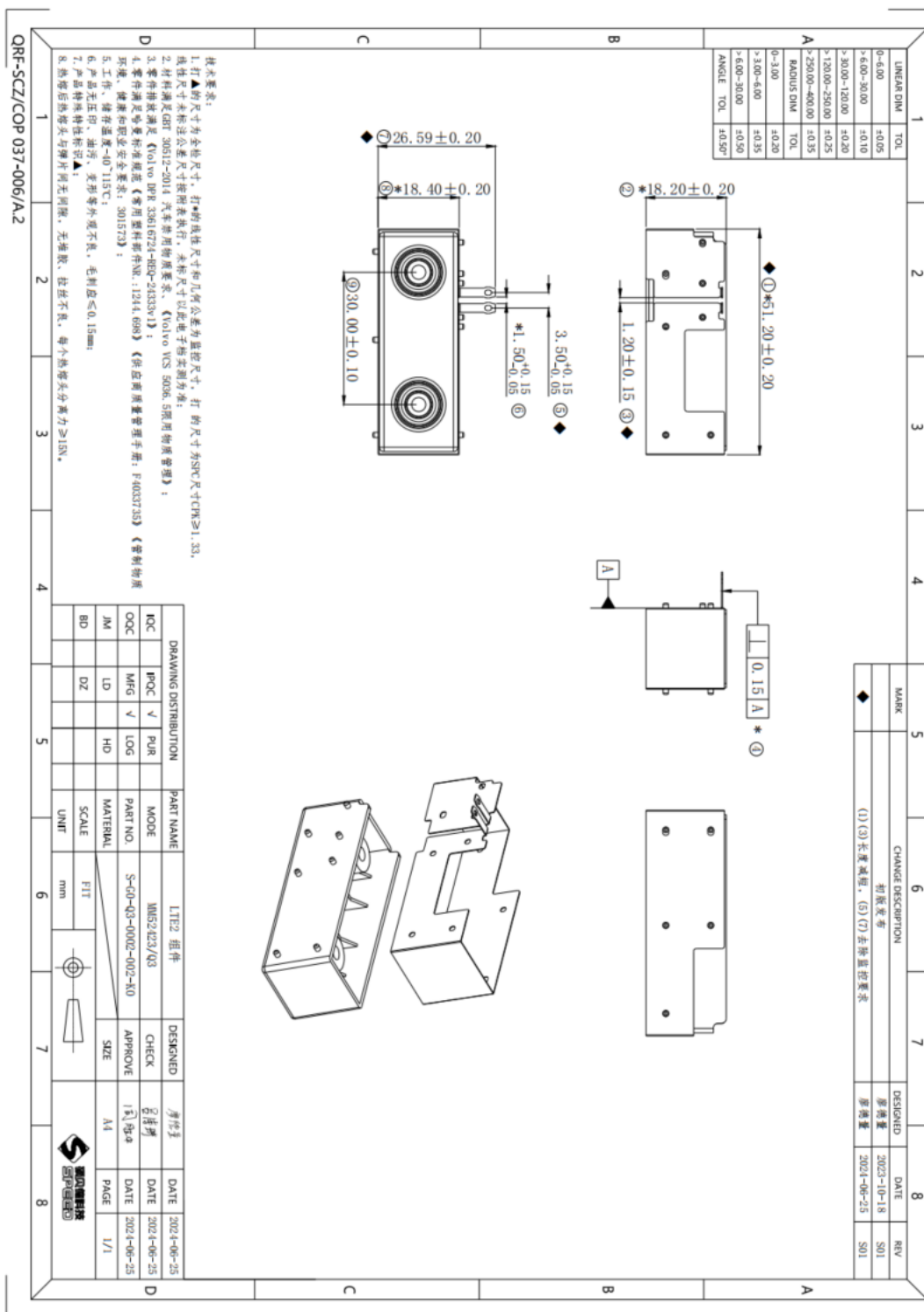






## ANTENNA SPECIFICATION

## LTE2 ANTENNA







## ANTENNA SPECIFICATION

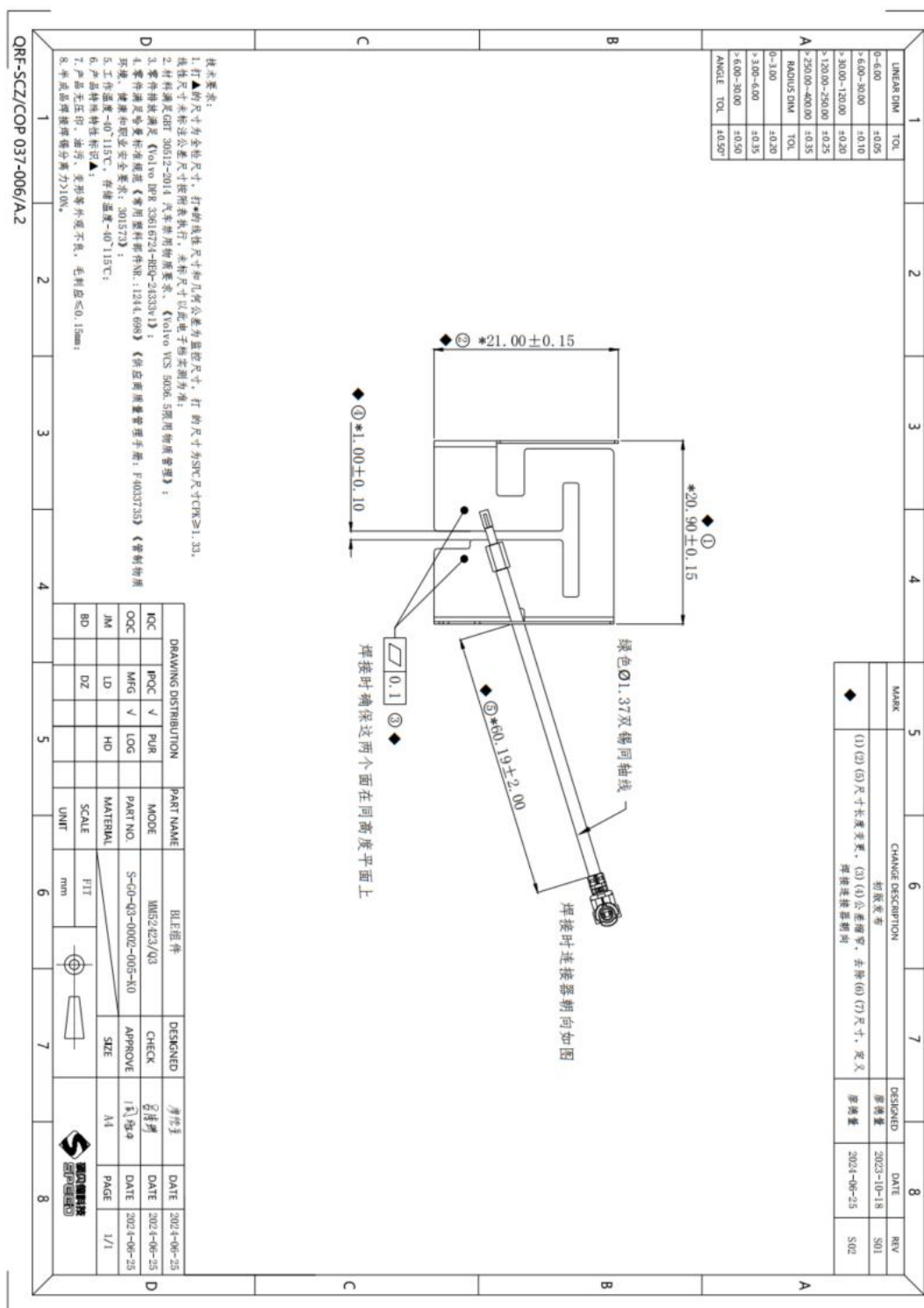
## LTE4 ANTENNA





## ANTENNA SPECIFICATION

## BLE ANTENNA



**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	