

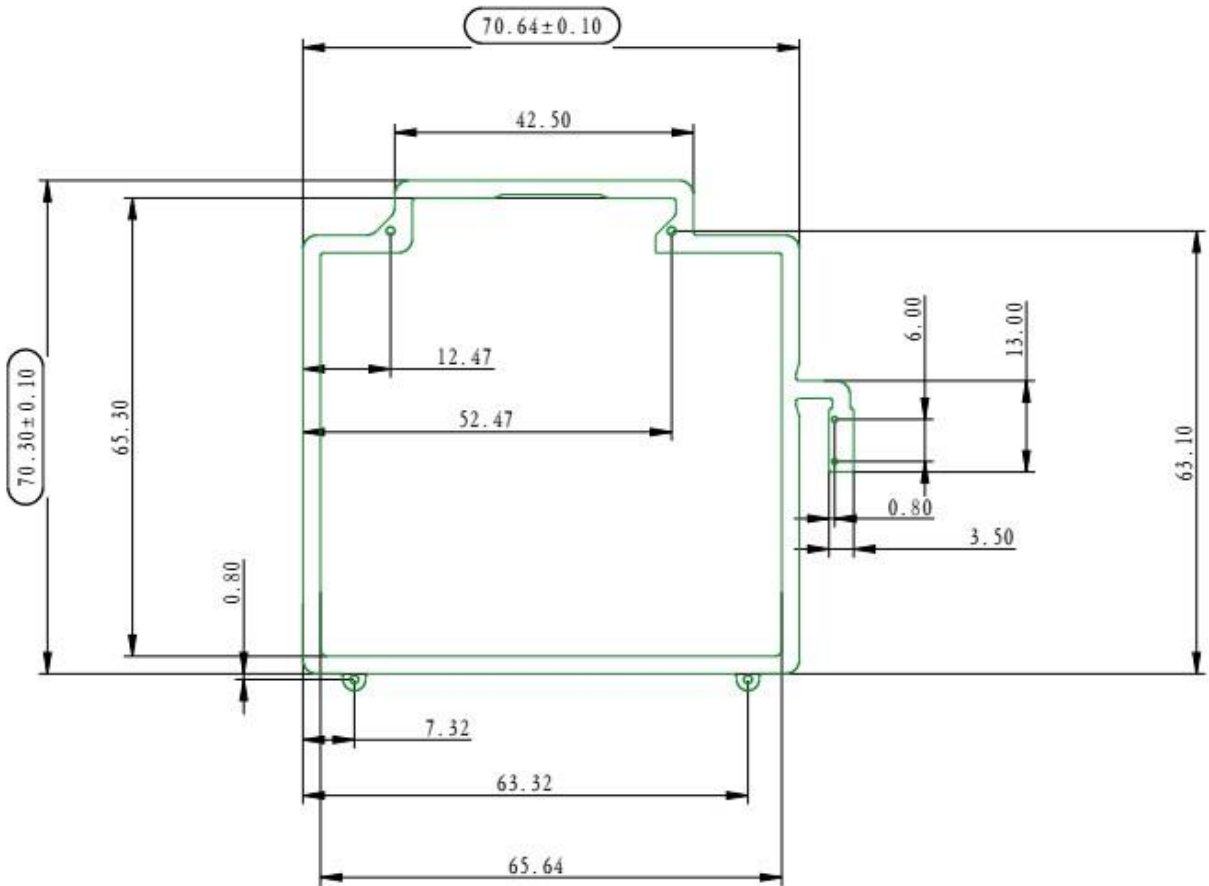
## BluePad-5500 Antenna Report

### 1. RFID Antenna

#### 1.1 Specifications

Specifications	
Operating frequency (MHz)	<b>13.56</b>
Antenna type	<b>Flex FPC</b>
Antenna gain	<b>0 dBi</b>

#### 1.2 Dimensions (Unit: mm)

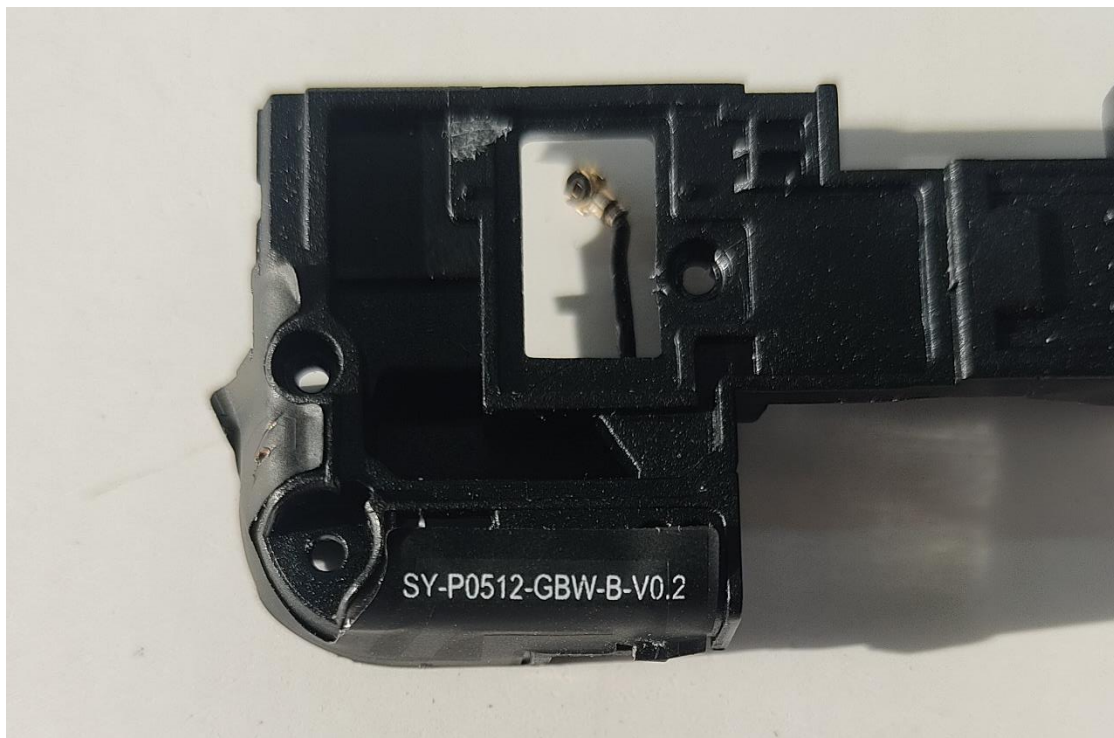


## 2. WiFi antenna

### 2.1 Specifications

Specifications	
Operating frequency (MHz)	<b>2412MHz to 2462MHz</b>
	<b>5150MHz to 5250MHz</b>
	<b>5250MHz to 5350MHz</b>
	<b>5470MHz to 5725MHz</b>
	<b>5725MHz to 5850MHz</b>
Antenna type	<b>FPC</b>
Antenna gain 2.4GHz	<b>-0.28 dBi</b>
Antenna gain 5GHz	<b>+3.13 dBi</b>

### 2.2 Wi-Fi Antenna (WiFi and GNSS)

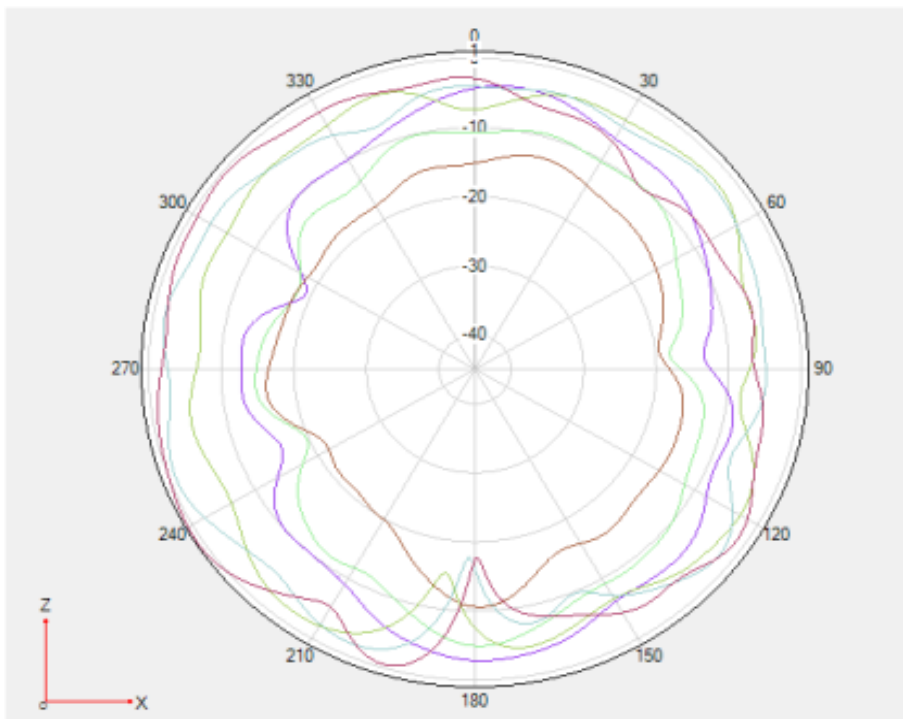


### 2.3 Antenna gain

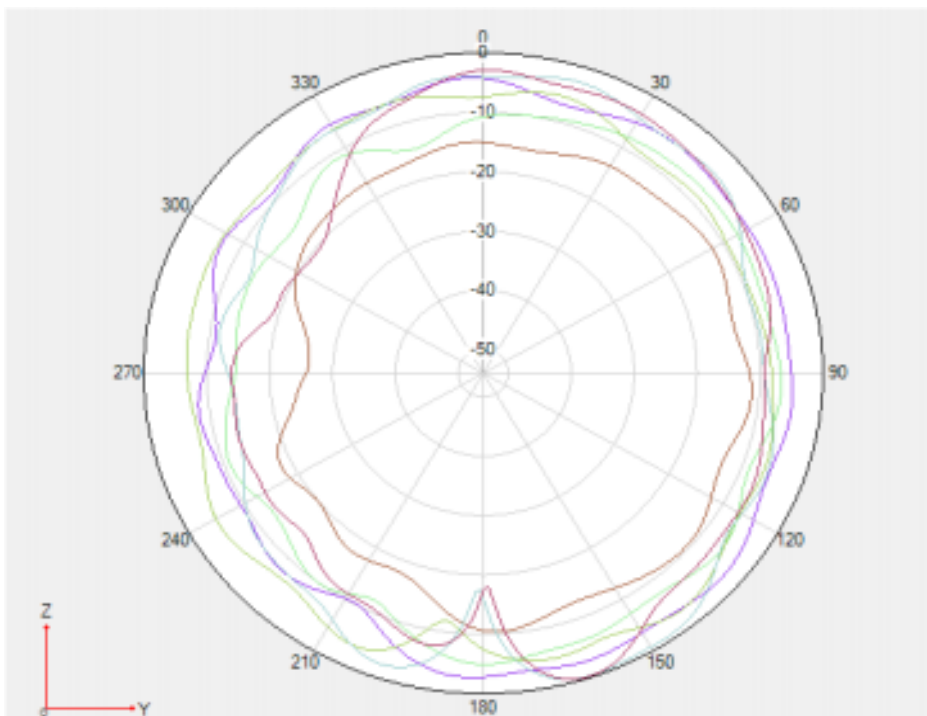
Freq	Effi	Effi	Gain	Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)
1560	35,07	-4,55	1,32	5100	38,71	-4,12	2,23
1570	32,41	-4,89	1,17	5150	40,21	-3,96	1,93
1580	31,64	-5	0,8	5200	36,16	-4,42	2,1
				5250	35,2	-4,53	2
2400	28,47	-5,46	0,88	5300	34,61	-4,61	2,17
2410	27,14	-5,66	0,39	5350	33,17	-4,79	2,08
2420	25,94	-5,86	1,28	5400	28,95	-5,38	1,44
2430	25,07	-6,01	1,85	5450	24,36	-6,13	0,9
2440	24,34	-6,14	0,63	5500	27,12	-5,67	1,36
2450	23,36	-6,32	1,44	5550	25,65	-5,91	1,86
2460	22,88	-6,41	0,85	5600	25,77	-5,89	2,64
2470	22,02	-6,57	0,04	5650	23,46	-6,3	2,8
2480	21,35	-6,71	0,48	5700	23,98	-6,2	2,15
2490	20,39	-6,91	0,52	5750	27,11	-5,67	2,25
2500	20,68	-6,84	0,35	5800	33,02	-4,81	2,04

## 2.4 Main Antenna plots

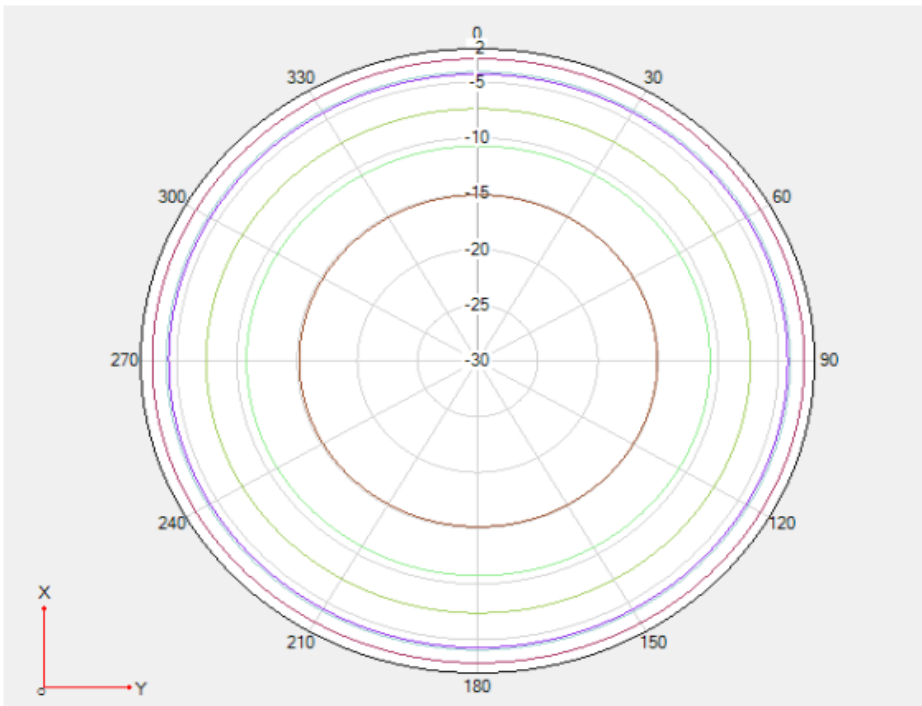
### Phi 0 2D diagram



### Phi 90 2D diagram



Theta 0 2D diagram



Theta 90 2D diagram

