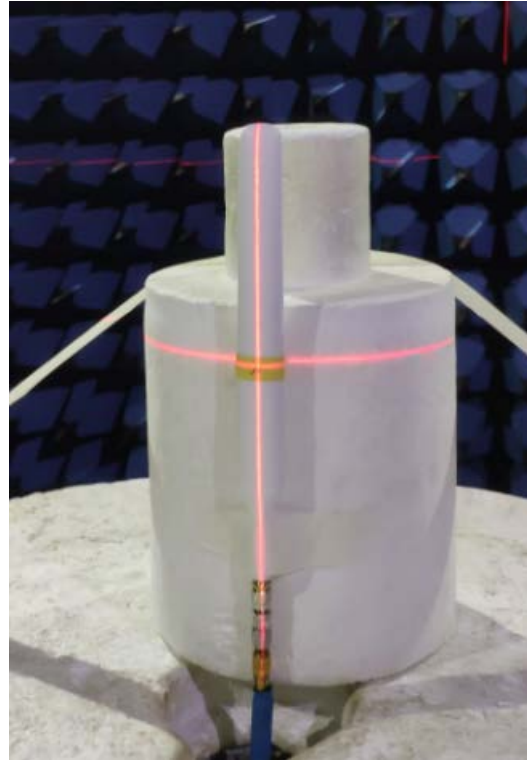


# Antenna Passive Test Report

Product name: IUAP-AC-MV1.0 dual band antenna



### Test information

Product name	IUAP-AC-MV1.0 Dual band antenna		Product code	
Test Category	Passive test of antenna	Test location	S parameter (laboratory) Radiation para (Barron test room)	
Test date	November 17, 2019	Tester	Xiao Pengcheng, Barron staff	
Test environment	Temperature: 24°C-28°C	Relative humidity: 56%-58%	Atmospheric pressure: 100kPa-101kPa	
Test items	Electrical performance at room temperature: <input checked="" type="checkbox"/> Return loss <input checked="" type="checkbox"/> gain <input checked="" type="checkbox"/> Pattern <input checked="" type="checkbox"/> Efficiency			
Test basis	See attached test drawings for test report			
Test overview	The electrical performance of the antenna is tested at room temperature, m including antenna S parameters and radiation parameters.			
conclusion	Conclusion The antenna radiation parameters and S parameters meet the requirements and the antenna matches well			

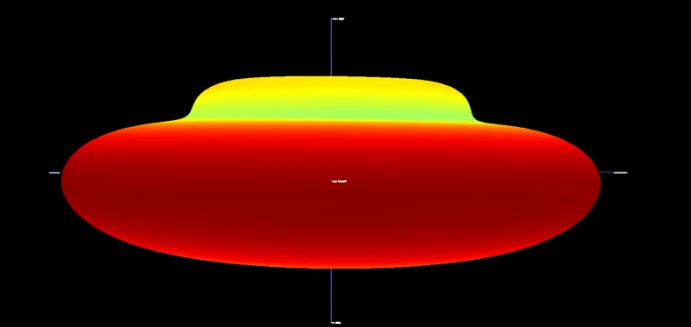
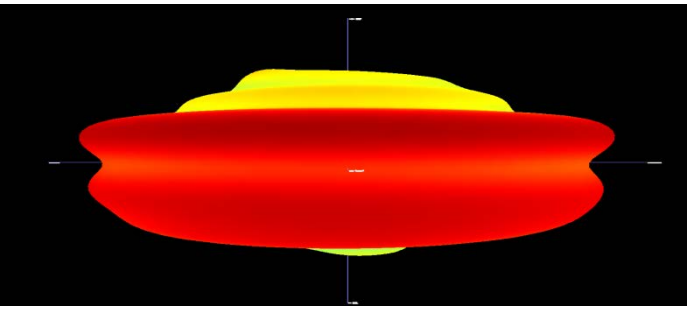
**Electrical performance test results at room temperature**

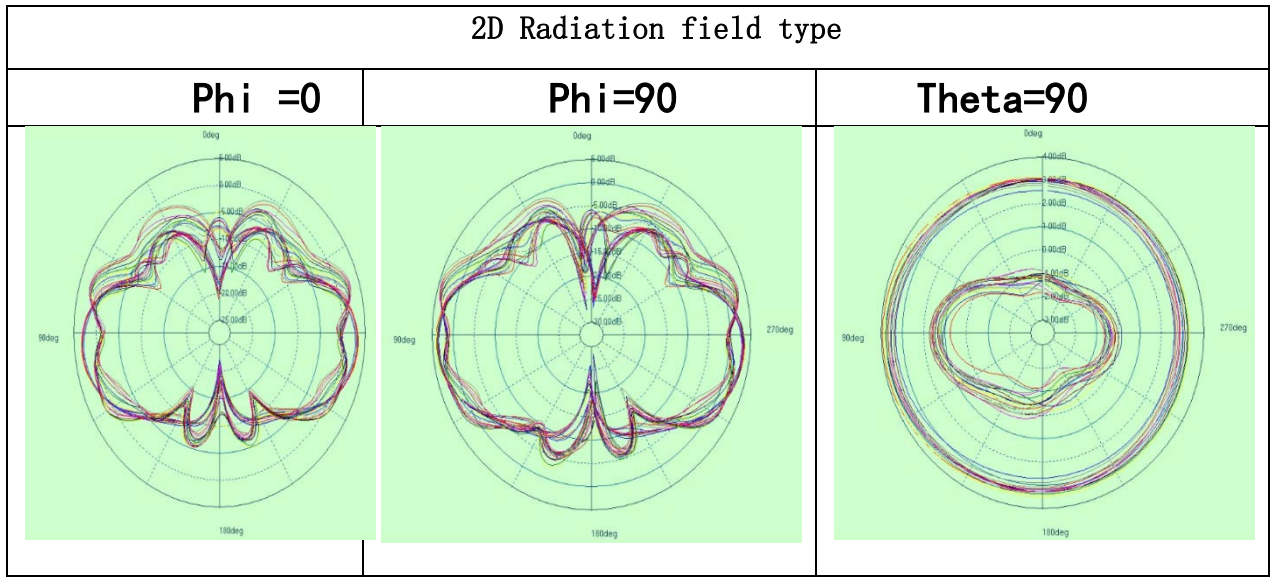
Serial No	Inspection items	Units	Performance index requirements	Inspection results		sentence
				Sample No. :		
1	frequency range	MHz	2410-2483/5150-5850	2410-2483/5150-5850		OK
2	Gain	dBi	5	2410	3.77	OK
				2450	3.67	OK
				2483	3.80	OK
				5150	3.33	OK
				5500	3.27	OK
				5850	4.63	OK
4	Return loss	dB	$\leq -10$	2410	-20	OK
				2450	-30	OK
				2483	-14	OK
				5150	-17	OK
				5500	-16	OK
				5850	-17	OK
5	Antenna efficiency		$\geq 60\%$	2410	80%	OK
				2450	86%	OK
				2483	81%	OK
				5150	67%	OK
				5500	74%	OK
				5850	79%	OK

**Radiation parameter test**

Frequency	E Total. dB(dBi)	Efficiency( )
2400MHz	3.98	82%
2410MHz	3.77	80%
2420MHz	3.83	83%
2430MHz	3.66	87%
2440MHz	3.90	86%
2450MHz	3.67	86%
2460MHz	3.55	86%
2470MHz	3.71	86%
2480MHz	3.80	86%
2490MHz	3.69	84%
2500MHz	3.45	81%
5150MHz	3.33	67%
5200MHz	3.39	67%
5250MHz	3.35	68%
5300MHz	3.07	72%
5350MHz	3.05	71%
5400MHz	3.27	72%
5450MHz	3.15	75%
5500MHz	3.27	74%
5550MHz	3.31	75%
5600MHz	3.66	74%
5650MHz	3.64	76%
5700MHz	3.97	75%
5750MHz	4.37	77%
5800MHz	4.25	76%
5850MHz	4.63	79%

**3DRadiation field type**

2.45GHz	
5.85GHz	



**Antenna S parameter test diagram**

