

Shenzhen DBT Telecommunication Technology CO.,LTD

Antenna Test Report

Customer: ZheJiang Shenchenkaidong Technology CO., Ltd
Project: Pet Locator (Overseas Version)
Antenna System: 4G&GPS&WIFI&BT

TIME:2026/04/16

1. Test Devices



OTA-800

Brand: ETS

Frequency Range: 370MHz-8.5GHz

Functions: Passive and active testing; TRP and TIS testing for GSM, CDMA, 2G/3G/4G, WIFI, BT, and other standards.

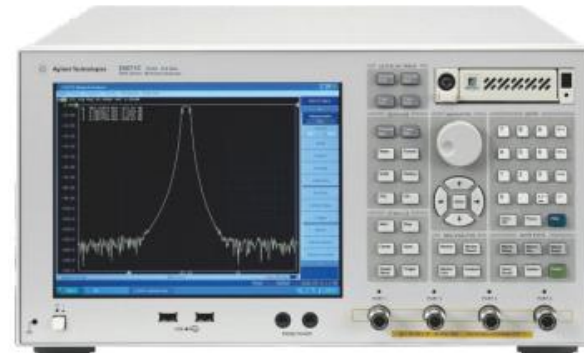


8960

Brand: Agilent

Frequency Range: 292MHz-2700GHz

Functions: Meets the requirements for 2G/3G active testing.



5071C

Brand: Agilent

Frequency Range: 9KHz-8.5GHz

Functions: Comprehensive passive antenna testing for 2G/3G/4G/BT/WIFI, etc.



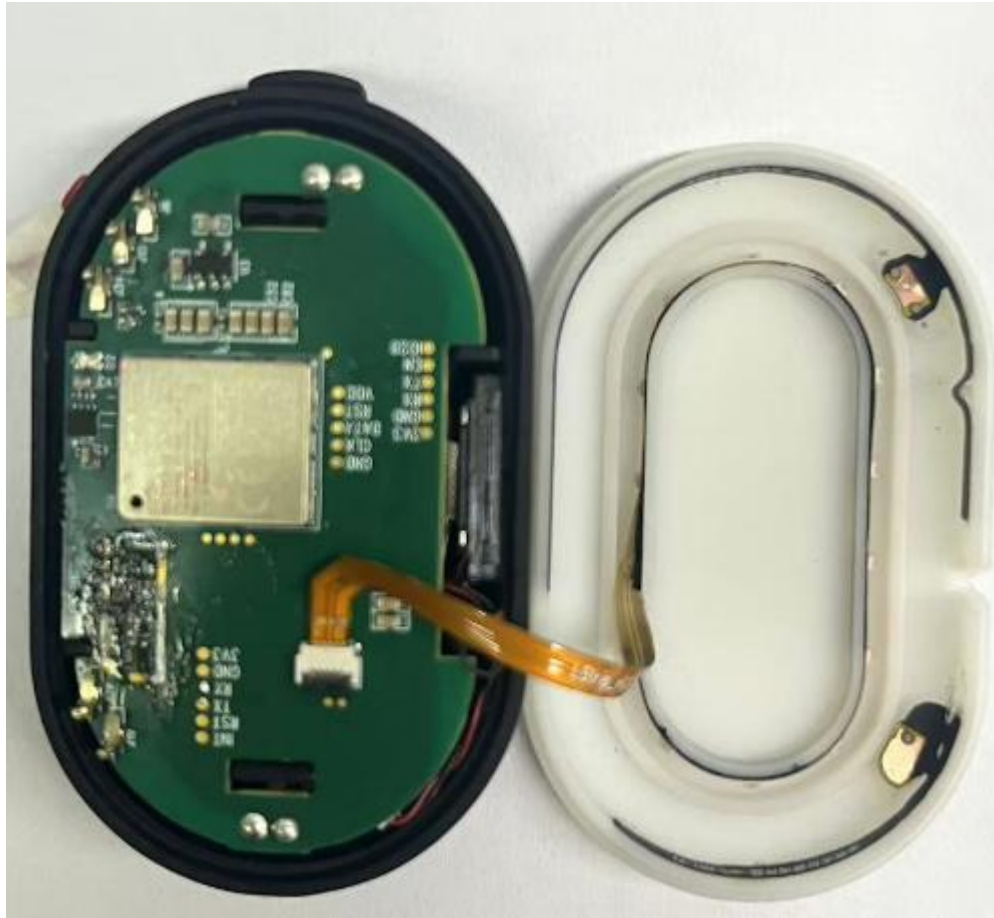
CMW500

Brand: Rohde & Schwarz

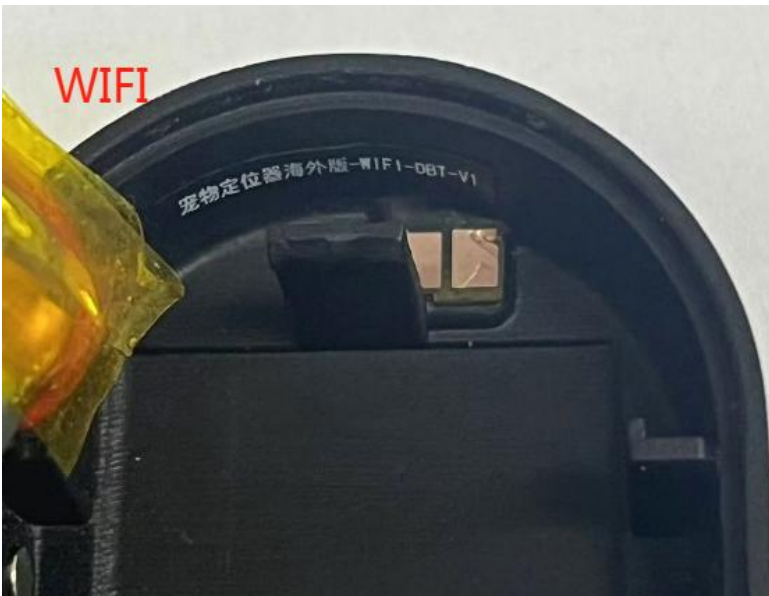
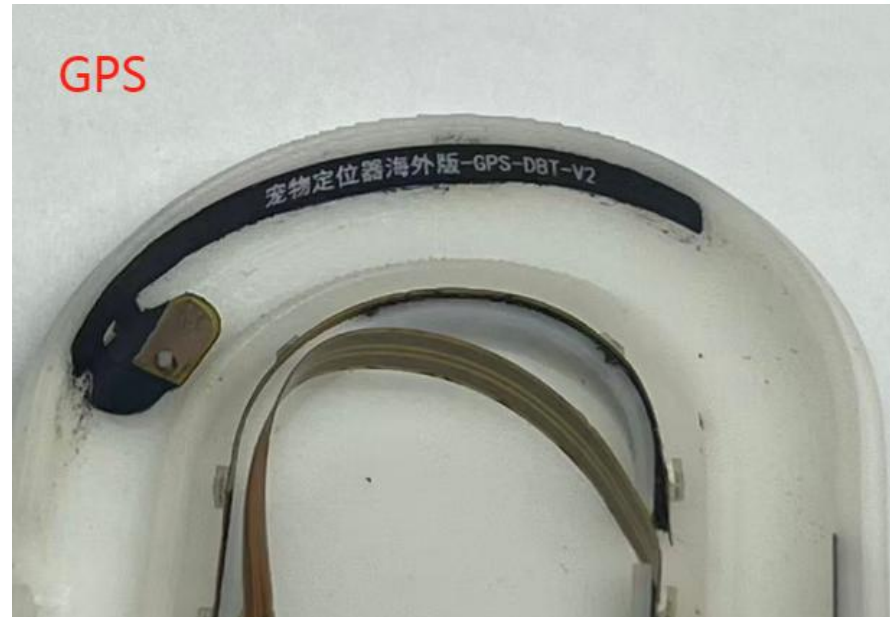
Frequency Range: 70KHz-6GHz

Functions: Comprehensive active antenna testing for 2G/3G/4G/BT/WIFI/NB-IoT, etc.

2. Device Under Test

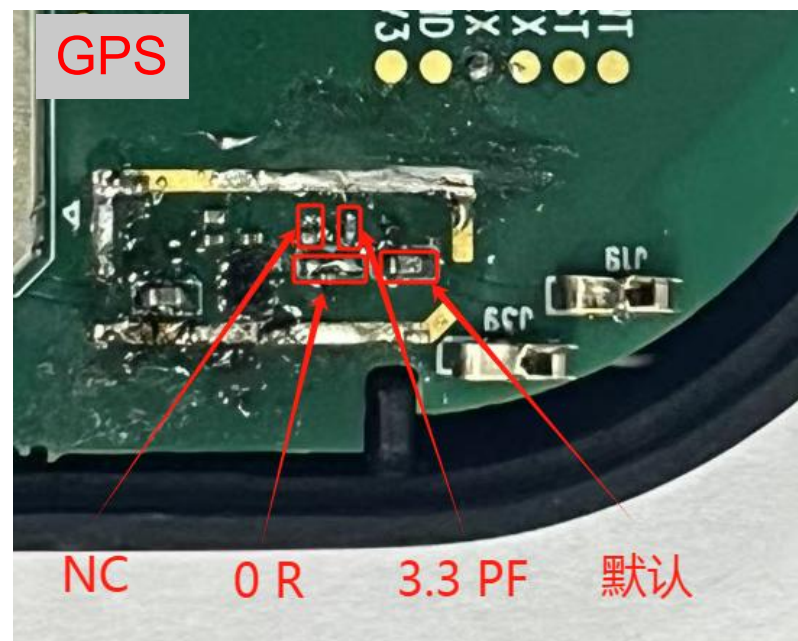
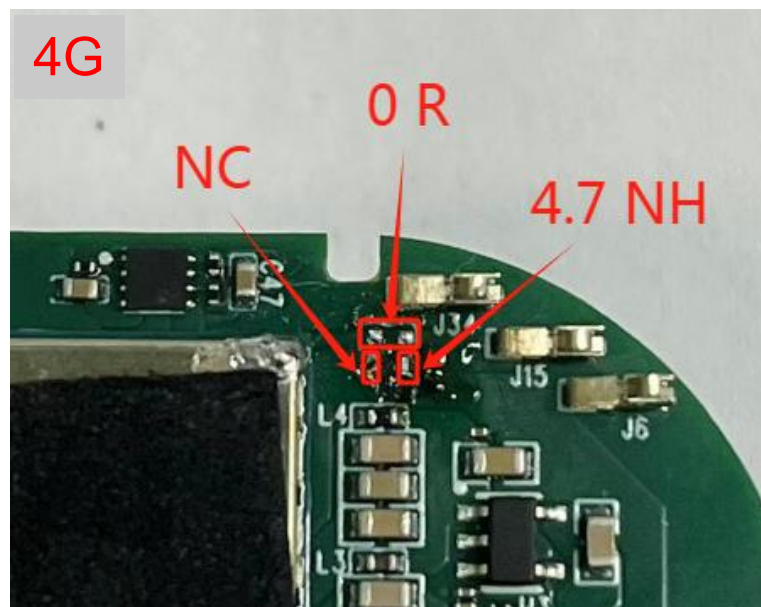


3. Antenna Assembly Drawing



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Matching of Wi-Fi Antenna and BT Antenna

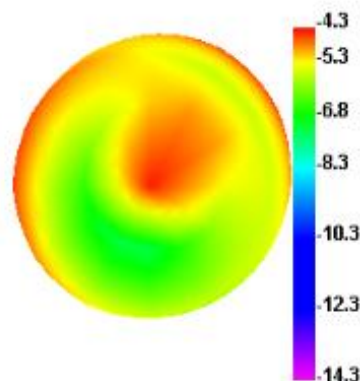


5. 4G Antenna Passive Data

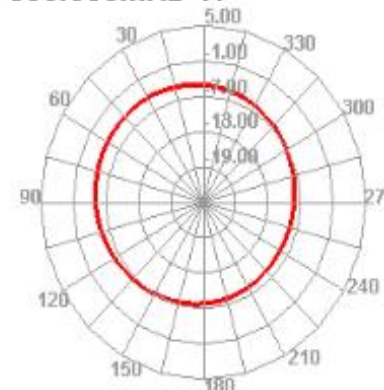


Freq (MHz)	Effi (%)	Gain (dBi)
700	9.38	-6.92
710	11.9	-4.73
720	12.65	-4.05
730	14.74	-3.74
740	14.52	-4.07
750	16.82	-3.77
760	16.71	-4.13
770	17.92	-4.26
780	17.96	-4.64
790	18.7	-4.61
800	20.43	-4.27
810	22.53	-3.57
820	17.11	-4.26
830	11.84	-5.17
840	6.55	-7.4
850	4.41	-8.89
860	2.67	-10.94
870	2.4	-11.36
880	1.77	-12.69
890	1.63	-12.98
900	1.31	-13.74

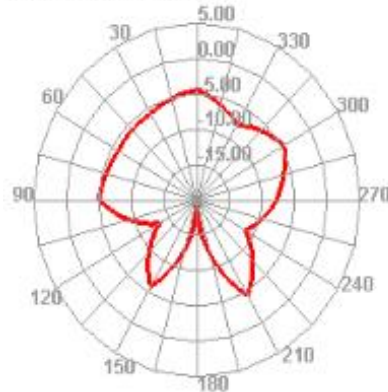
800.000MHz



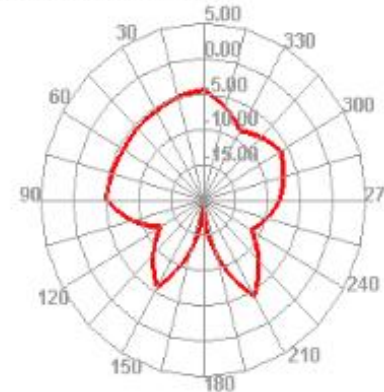
800.000MHz H



800.000MHz E1



800.000MHz E2

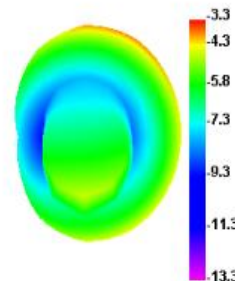


6. 4G Antenna Passive Data

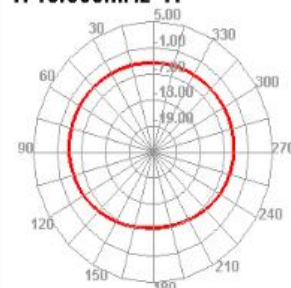


Freq (MHz)	Effi (%)	Gain (dBi)
1710	22.92	-3.26
1730	25.02	-2.89
1750	29.06	-2.27
1770	31.62	-1.82
1790	33.7	-1.47
1810	38.32	-0.94
1830	35.35	-1.16
1850	36.97	-1.08
1870	37.13	-1.23
1890	33.65	-1.99
1910	30.78	-2.29
1930	27.24	-2.68
1950	30.44	-2.4
1970	28.33	-2.46
1990	25.3	-2.85
2010	24.37	-2.9
2030	21.61	-3.28
2050	20.68	-3.87
2070	20.41	-2.81
2090	18.76	-3.28
2110	17.63	-2.51
2130	18.77	-2.02
2150	16.1	-2.72
2170	15.85	-3.74
2190	15.57	-4.62
2200	15.54	-4.8

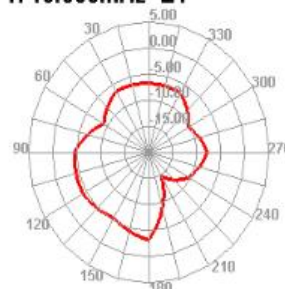
1710.000MHz



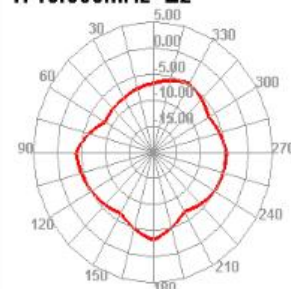
1710.000MHz H



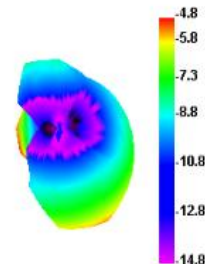
1710.000MHz E1



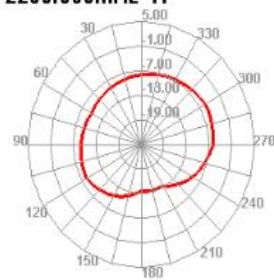
1710.000MHz E2



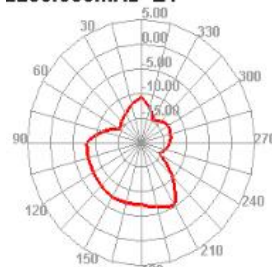
2200.000MHz



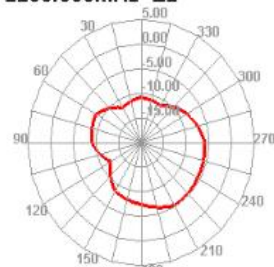
2200.000MHz H



2200.000MHz E1



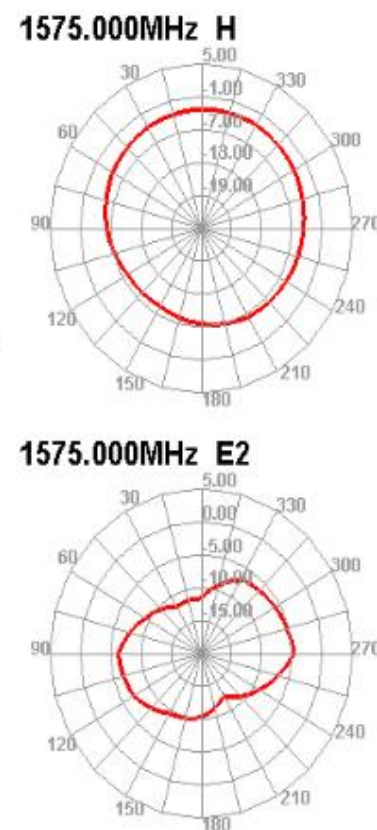
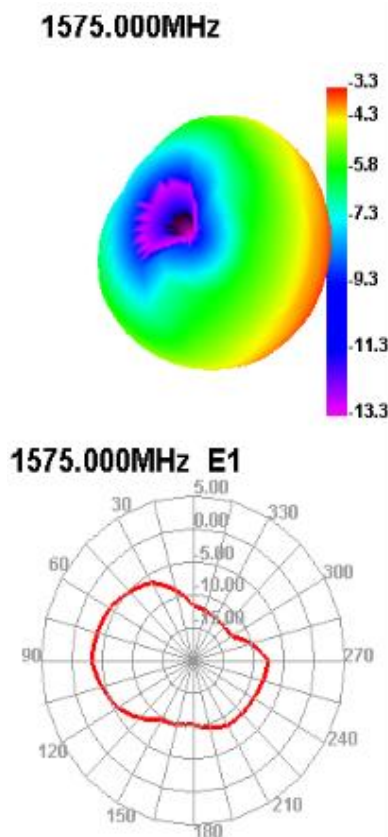
2200.000MHz E2



7. GPS Antenna Passive Data



Freq (MHz)	Effi (%)	Gain (dBi)
1565	16.29	-3.87
1570	17.91	-3.6
1575	20.73	-3.29
1580	20.13	-3.52
1585	19.8	-3.44

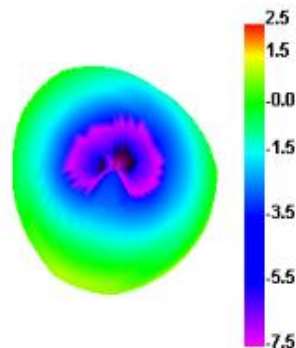


8. WiFi Antenna Passive Data

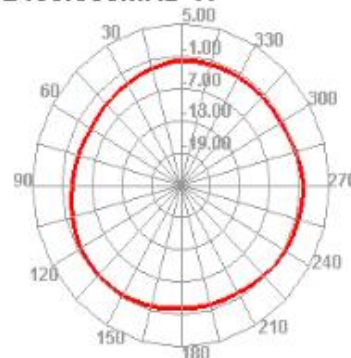


Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.29	1.6
2410	47.69	1.85
2420	44.55	1.79
2430	46.66	2.13
2440	48.75	2.5
2450	50.26	2.47
2460	48.54	1.84
2470	49.6	2.06
2480	47.85	1.98
2490	52.38	2.53
2500	46.08	2.17

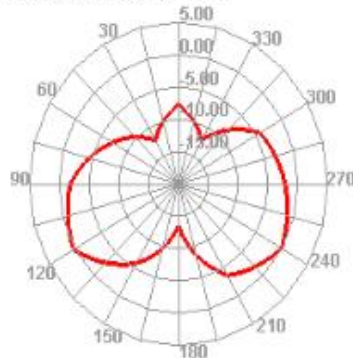
2450.000MHz



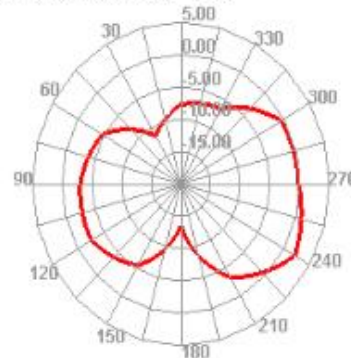
2450.000MHz H



2450.000MHz E1



2450.000MHz E2

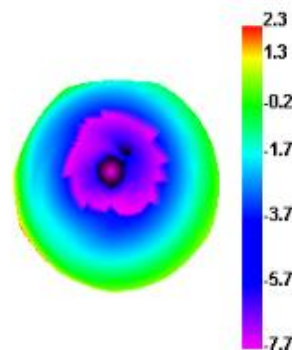


9. BT Antenna Passive Data

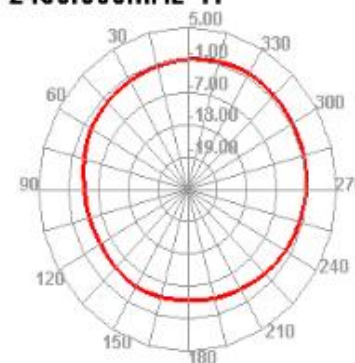


Freq (MHz)	Effi (%)	Gain (dBi)
2400	46.73	1.47
2410	49.85	1.88
2420	46.49	1.64
2430	52	2.25
2440	49.76	2.21
2450	51.23	2.33
2460	45.5	1.79
2470	48.72	2.05
2480	45.79	1.71
2490	46.44	1.9
2500	43.65	1.88

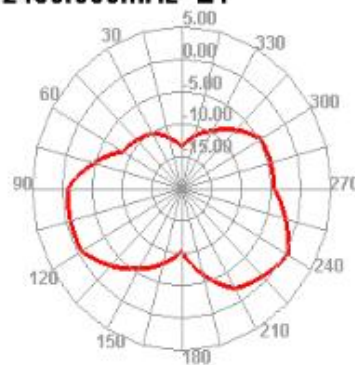
2450.000MHz



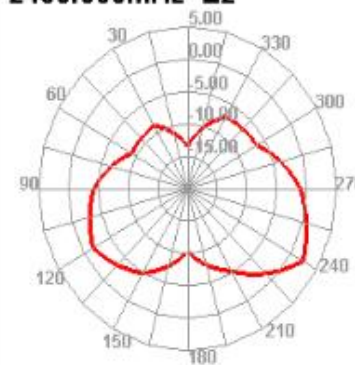
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



10.Active Test Data



Test Result	eMTC2 TRP	
	18650	19150
Frequency (MHz)	1855	1905
Txp Ave (dBm)	12.68	13.67
Test Result	eMTC2 TIS	
	1150	
Frequency (MHz)	1985	
Sens Ave (dBm)	-87.82	

Test Result	eMTC12 TRP	
	23035	23155
Frequency (MHz)	700.5	712.5
Txp Ave (dBm)	4.27	6.37
Test Result	eMTC12 TIS	
	5155	
Frequency (MHz)	742.5	
Sens Ave (dBm)	-85.93	

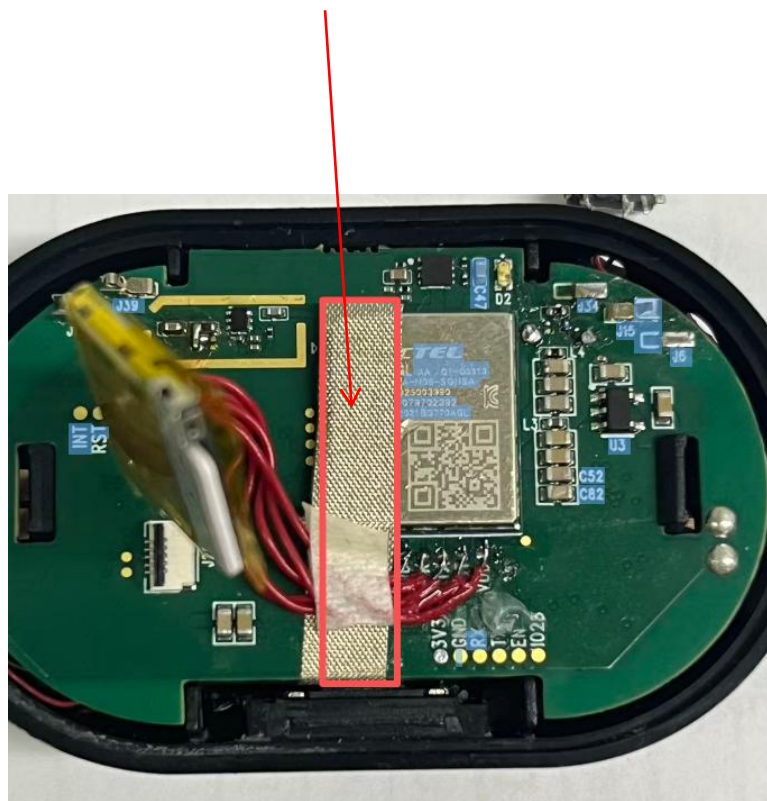
Test Result	eMTC4 TRP	
	20000	20350
Frequency (MHz)	1715	1750
Txp Ave (dBm)	13.26	12.57
Test Result	eMTC4 TIS	
	2350	
Frequency (MHz)	2150	
Sens Ave (dBm)	-85.44	

Test Result	eMTC66 TRP	
	132022	132623
Frequency (MHz)	1715	1775.099
Txp Ave (dBm)	13.52	12.27
Test Result	eMTC66 TIS	
	67087	
Frequency (MHz)	2175.1	
Sens Ave (dBm)	-85.28	

Test Result	eMTC5 TRP	
	20450	20600
Frequency (MHz)	829	844
Txp Ave (dBm)	4.18	4.67
Test Result	eMTC5 TIS	
	2600	
Frequency (MHz)	889	
Sens Ave (dBm)	-80.89	

11.Environmental Handling & Precautions

Conductive cloth attached to speaker magnet for grounding



Separate routing of charging serial port cable and battery cable

