

Sample
BOOK
SPECIFICATION

Client :	Eview
Project name :	P103-A
Antenna category:	LDS antenna
Edition :	V1. 0
Date :	2026. 3. 25
Supplier address:	Room 505-506, Block A, Donglian Building, Chuangye 2nd Road, Bao'an District, Shenzhen
Supplier :	Shenzhen Cicent Communication Technology Co., Ltd.

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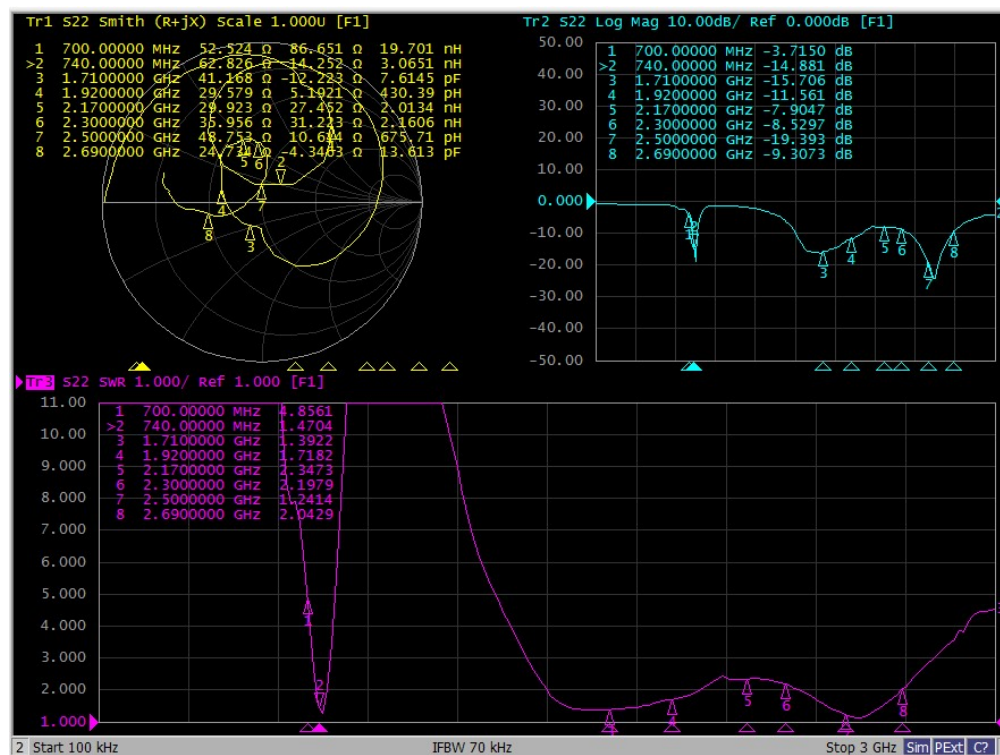
Change History Column			
Date of Preparation/Change	Reason for Change	Change Content	Edition
2026.3.25	First edition release	First edition release	V1.0

I: Passive Test Report

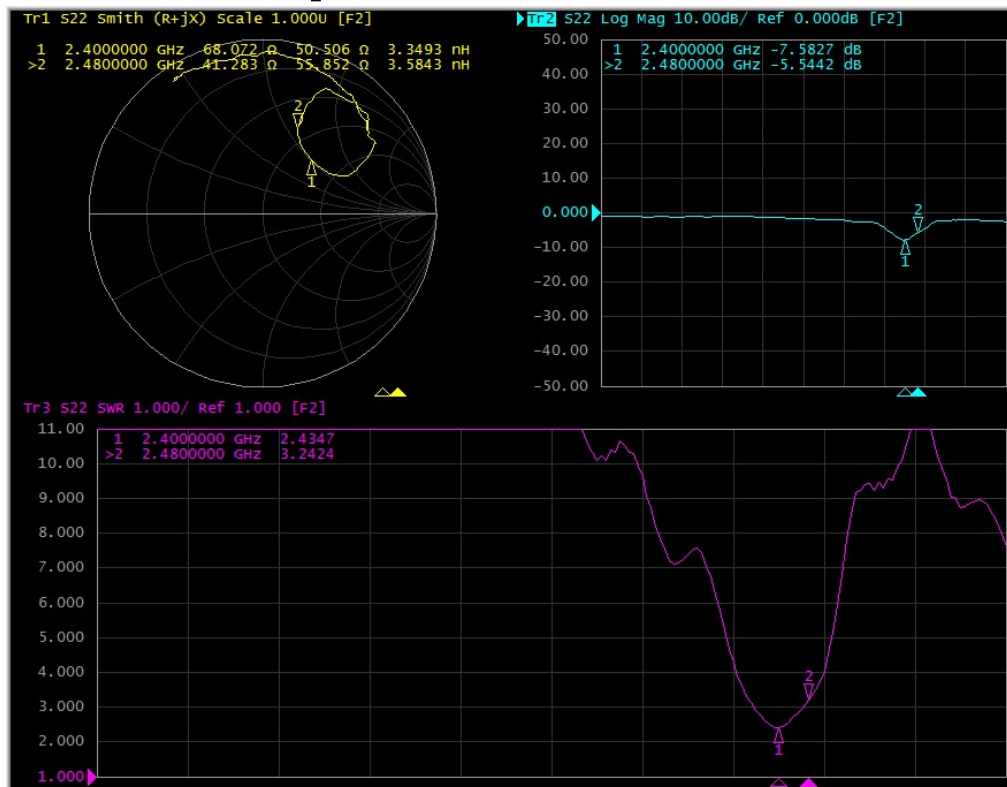


Agilent E5071C

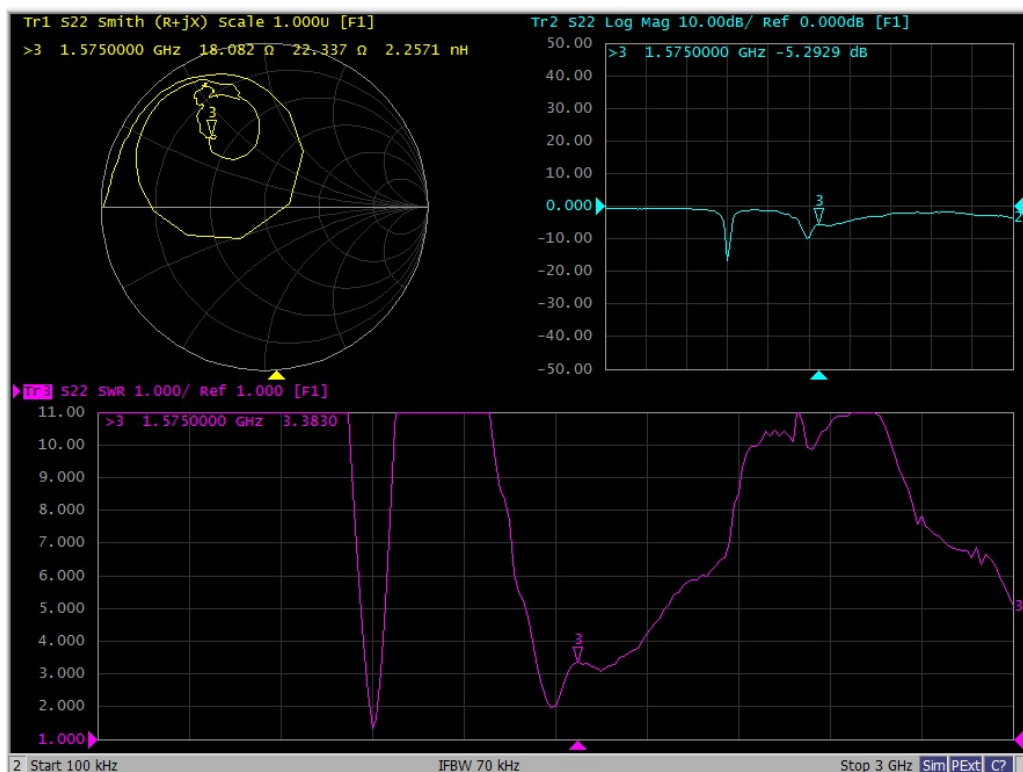
LTE Antenna S-Parameter



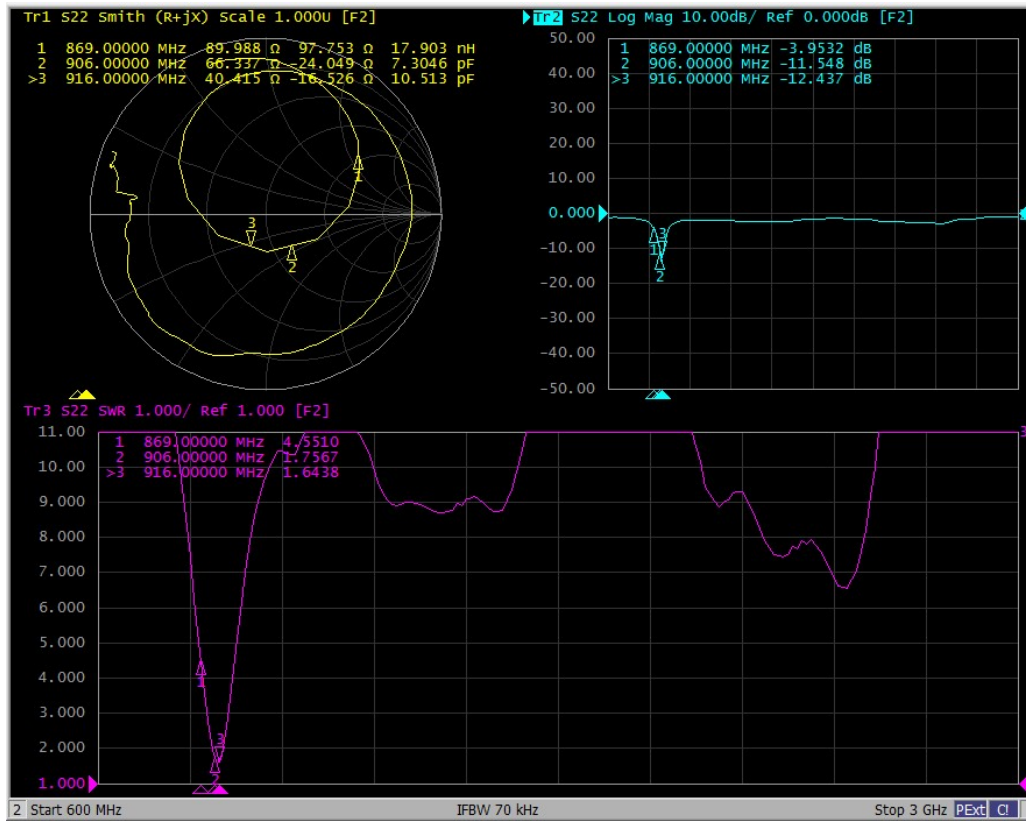
WIFI/BT antenna S parameters



GPS Antenna S-Parameter



LORA Antenna S-Parameter



LTE antenna passive efficiency: (arm)

Main: Matching string 0Ω; Gnd: 3.6nH; Parasitic: 0.5pF							
Frequency point MHz	Productiveness dB	Gain dBi	Productiveness %	Frequency point MHz	Productiveness dB	Gain dBi	Productiveness %
700	-15.2	-11.4	3.0	1710	-9.3	-3.9	11.7
710	-14.3	-10.7	3.7	1730	-9.2	-3.7	12.0
720	-13.3	-9.9	4.7	1750	-9.0	-3.3	12.7
730	-12.1	-8.9	6.2	1770	-8.7	-2.9	13.4
740	-10.9	-7.7	8.1	1790	-8.7	-2.6	13.6
750	-10.4	-7.1	9.1	1810	-8.4	-2.3	14.5
760	-10.8	-7.3	8.3	1830	-8.3	-2.2	14.9
770	-12.3	-8.7	5.9	1850	-8.1	-2.0	15.5
780	-14.0	-10.3	4.0	1870	-8.0	-2.0	15.7
790	-15.9	-12.3	2.6	1890	-8.1	-2.0	15.7
800	-17.7	-14.1	1.7	1910	-7.8	-1.6	16.5
AVG	-13.4	-9.8	5.2	1930	-8.0	-1.7	16.0
				1950	-7.8	-1.5	16.7
				1970	-7.7	-1.4	17.1
				1990	-7.6	-1.3	17.6
				2010	-7.6	-1.5	17.5
				2030	-7.5	-1.2	17.9
				2050	-7.4	-1.0	18.2
				2070	-7.4	-0.9	18.1
				2090	-7.6	-1.1	17.4
				2110	-7.9	-1.6	16.3
				2130	-7.9	-1.6	16.4
				2150	-7.7	-1.1	17.0
				2170	-7.4	-0.6	18.0
				AVG	-8.0	-1.9	15.9

WIFI/BT antenna passive efficiency: (arm)

WIFI/BT: Match string 0Ω			
Frequency point MHz	Productiveness dB	Gain dBi	Productiveness %
2400	-6.6	-1.6	22.0
2410	-6.3	-1.3	23.5
2420	-6.1	-1.0	24.6
2430	-6.1	-0.9	24.5
2440	-6.2	-0.8	24.0
2450	-6.2	-0.7	23.9
2460	-6.4	-0.8	22.8
2470	-6.6	-0.9	22.0
2480	-6.8	-0.9	21.0
2490	-7.1	-1.1	19.4
2500	-7.4	-1.3	18.2
AVG	-6.5	-1.0	22.4

GPS antenna passive efficiency: (arm)

GPS: Matching string 0Ω			
Frequency point MHz	Productiveness dB	Gain dBi	Productiveness %
1570	-10.5	-6.5	8.9
1571	-10.5	-6.4	9.0
1572	-10.4	-6.4	9.0
1573	-10.4	-6.4	9.1
1574	-10.4	-6.3	9.1
1575	-10.4	-6.3	9.2
1576	-10.4	-6.3	9.2
1577	-10.3	-6.2	9.3
1578	-10.3	-6.2	9.3
1579	-10.3	-6.1	9.4
1580	-10.2	-6.1	9.5
AVG	-10.4	-6.3	9.2

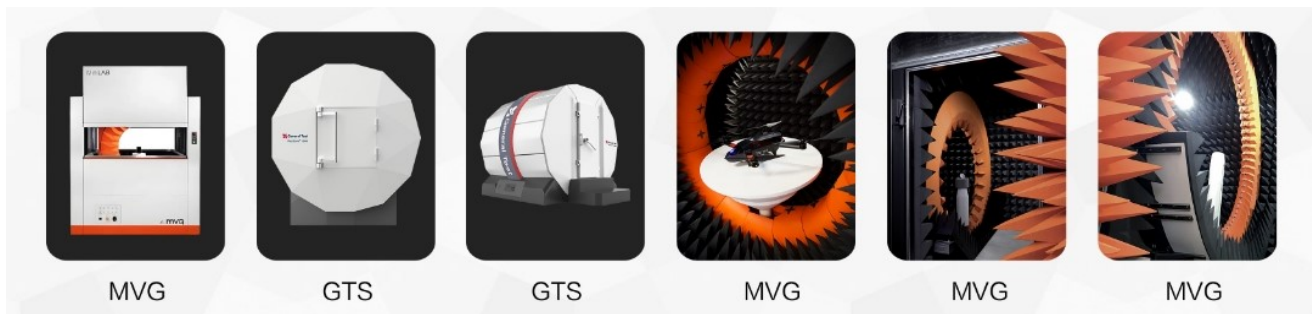
LORA antenna passive efficiency: (arm)

ROLA: Match and 3PF			
Frequency point MHz	Productiveness dB	Gain dBi	Productiveness %
860	-16.8	-12.4	2.1
870	-15.7	-11.2	2.7
880	-14.7	-10.1	3.4
890	-13.7	-9.1	4.3
900	-12.9	-8.2	5.1
910	-12.3	-7.6	5.9
920	-11.9	-7.0	6.4
AVG	-14.0	-9.4	4.3

II: Active Test Data

Freedom	Channel	TRP (dBm)	TIS (dBm)
FDD B2	CH 18650	21.2	
	CH 18900	21.23	
	CH 19150	21.36	-91.53
FDD B4	CH 20000	18.84	
	CH 20175	19.86	
	CH 20350	20.31	-92.36
FDD B12	CH 23035	11.69	
	CH 23095	11.95	
	CH 23155	12.31	-86.98

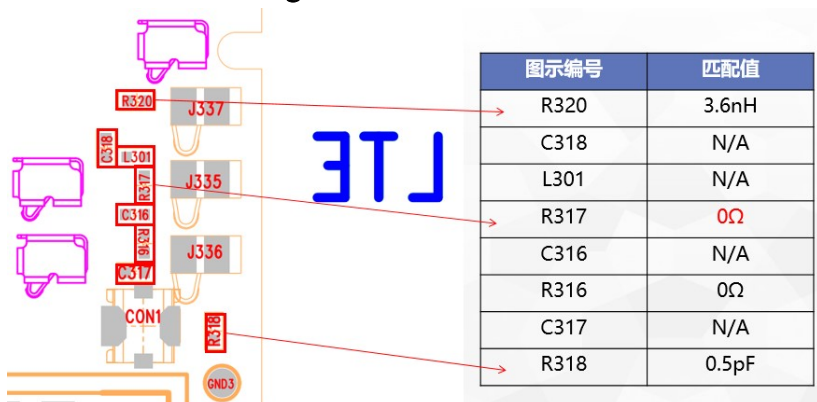
Arm	Channel	TRP (dBm)	TIS (dBm)
FDD B2	CH 18650	17.1	
	CH 18900	17.4	
	CH 19150	17.2	-88.2
FDD B4	CH 20000	12.8	
	CH 20175	13.2	
	CH 20350	13.8	-90.1
FDD B12	CH 23035	11.4	
	CH 23095	11.7	
	CH 23155	11.5	-86.2



OTA Standard Chamber

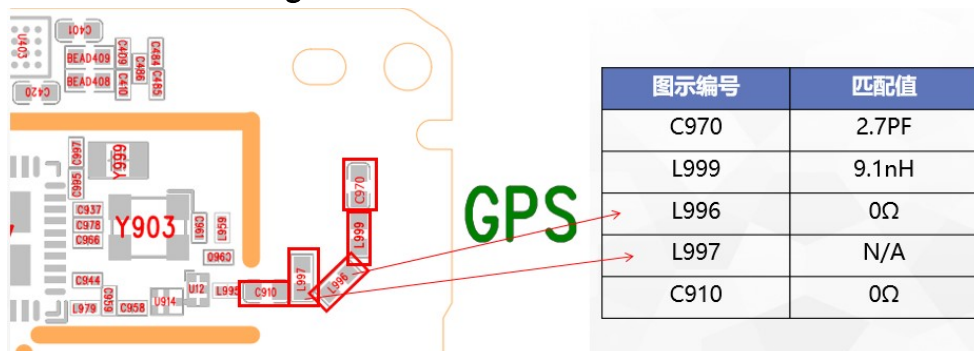
III: Matching Circuit

LTE antenna matching circuit:

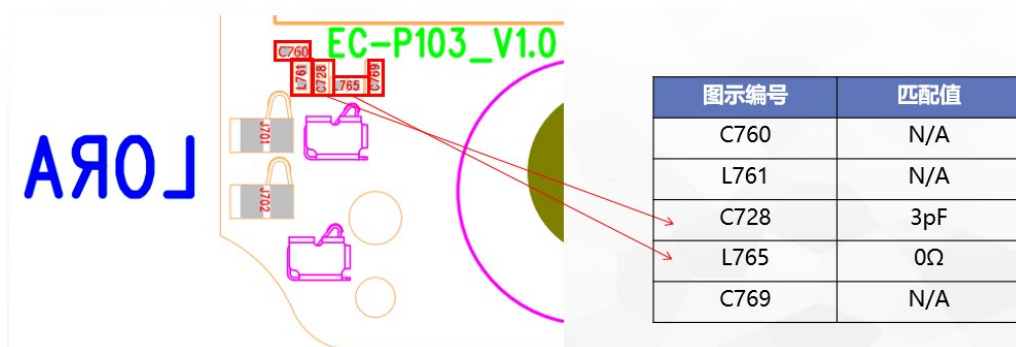


WIFI/BT antenna matching circuit: The antenna matching has not been modified.

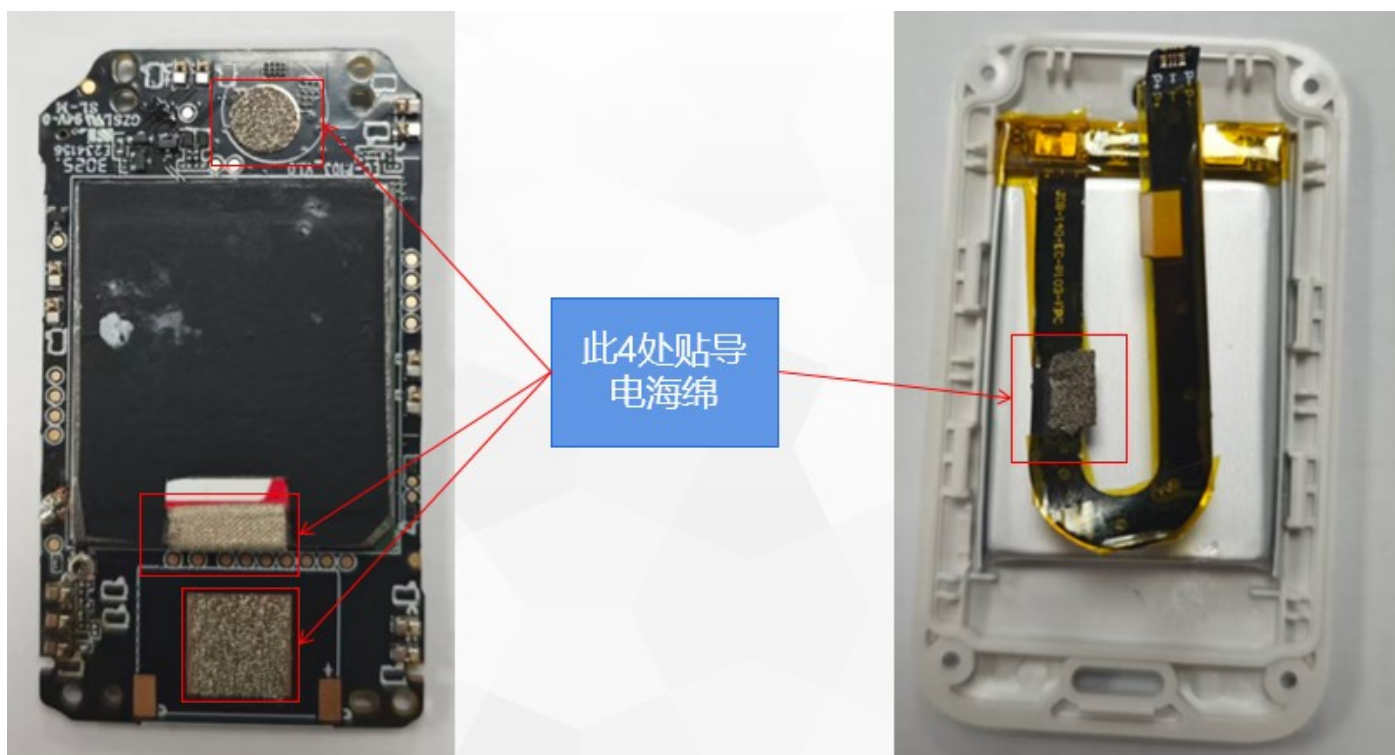
GPS antenna matching circuit:



LORA antenna matching circuit: (The LORA antenna requires a 3pf parallel connection to ground, as shown below; the remaining matching parameters remain unchanged.)



IV: Environmental Treatment



5: Structure Diagram File

