

SPECIFICATION

APPLICATION FOR APPROVAL

Antenna Type: PIFA antenna
Model Number: B112

Release : Full release

Customer Approval	
Program Manager	R & D director
Peter Solymos	Peter Solymos
Supplier Approval	
Program Manager	R & D director
郝井强(Jingqiang Hao)	孙高鹤(Gaohe Sun)

Confidential

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1. ELECTRICAL SPECIFICATIONS

1-1 FREQUENCY BAND

Freq. Band	Freq.(MHz)
2.4G	2400-2490MHz

1-2 IMPEDANCE

Nominal Impedance(including matching circuit) : **50** ohms

1-3 MATCHING REQUIREMENTS

The matching circuit on the PCB of the handset is according to Figure PCB.

Optimum matching circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available

2.ENVIRONMENTAL CHARACTERISTICS

Customer No: NSV International Corp	<i>File: 2024/02/01</i>
Test Condition: FREE SPACE	Note: Gain/ Efficiency
Confirmation: Jing Qiang Hao	Engineer: GaoHe Sun

NO.	ITEM	TEST CONDITION
1	Normal condition	1. Temperature: 24.3±1℃ 2. Humidity: 35%±2% 3. Pressure: 101.2KPa

3. Test equipment

Equipment	Model No	Manufactory	Series No
ENA vector analyzer	E5071C	Keysight	MY46900684
OTA chamber	FT-0024	FEITU	FS20200302

5. PACKAGING

Antenna is PIFA antenna, packaging with PCB board.

6. APPENDIX

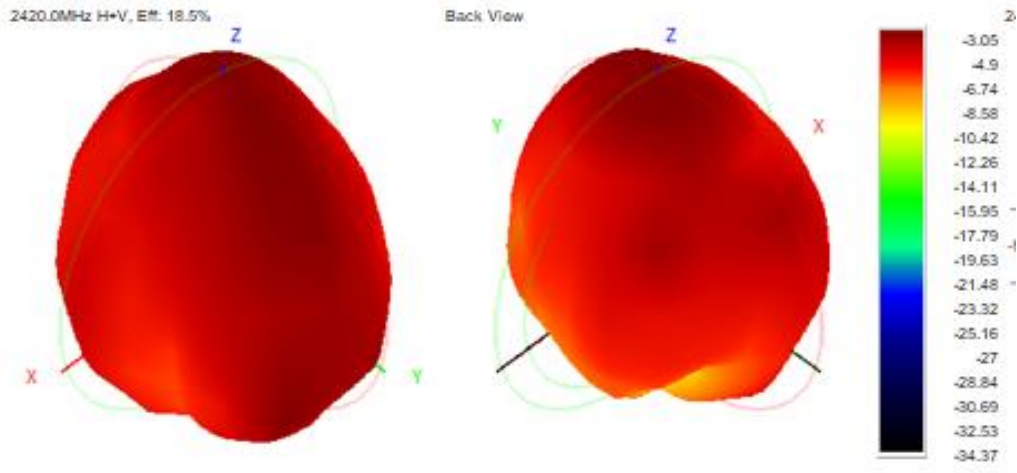
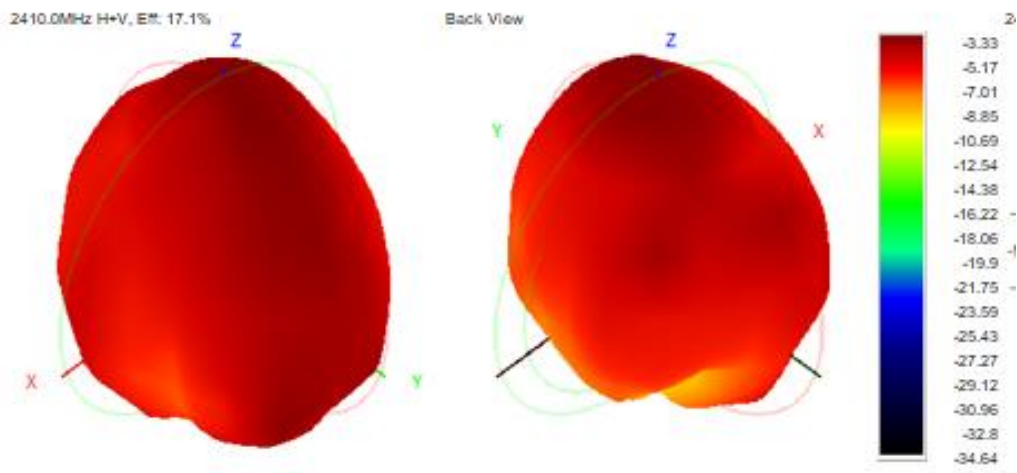
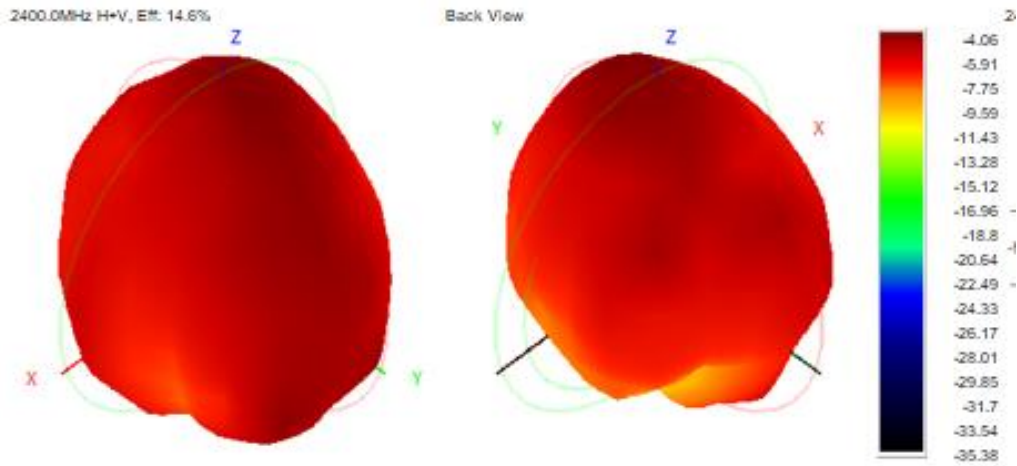
All of the specifications are shown as the attached files.

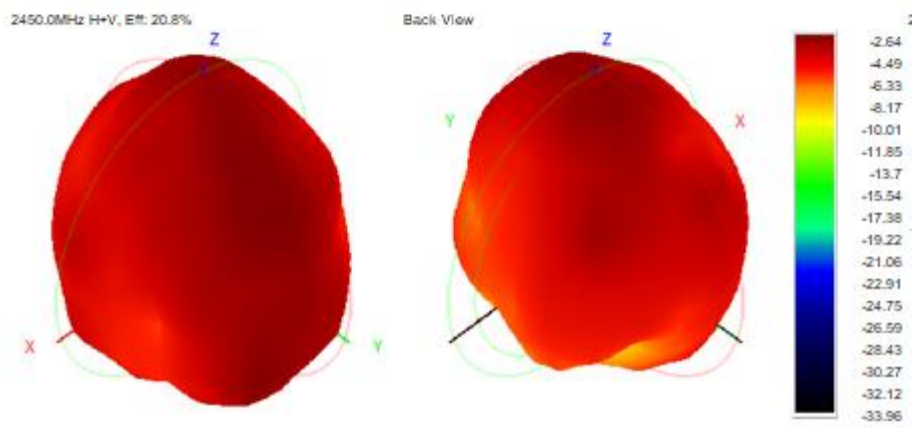
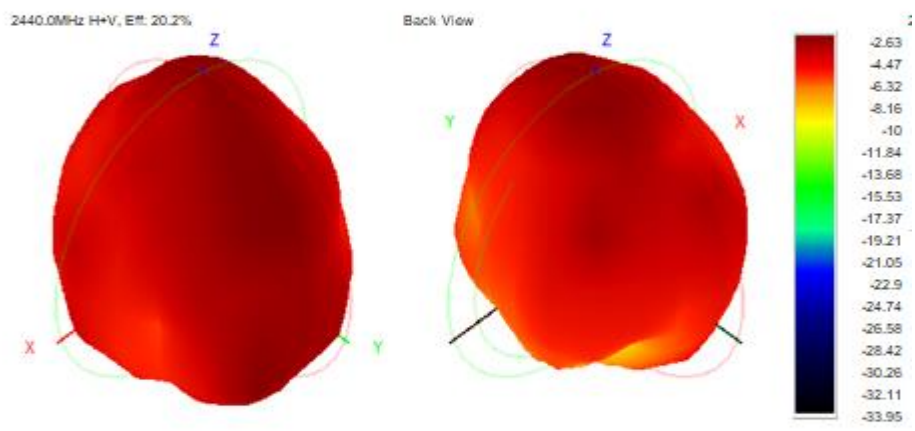
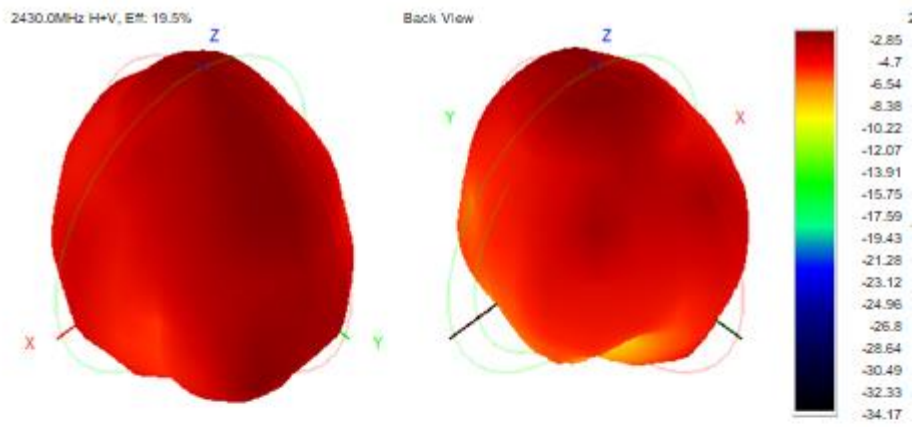
Antenna Test Date

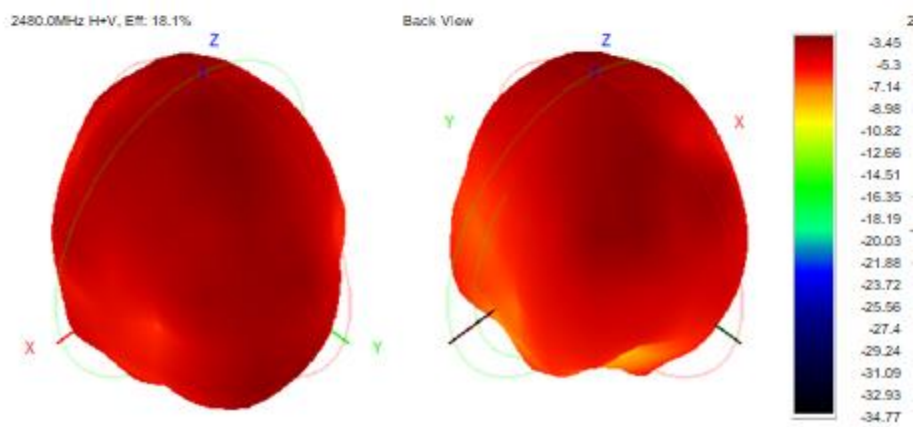
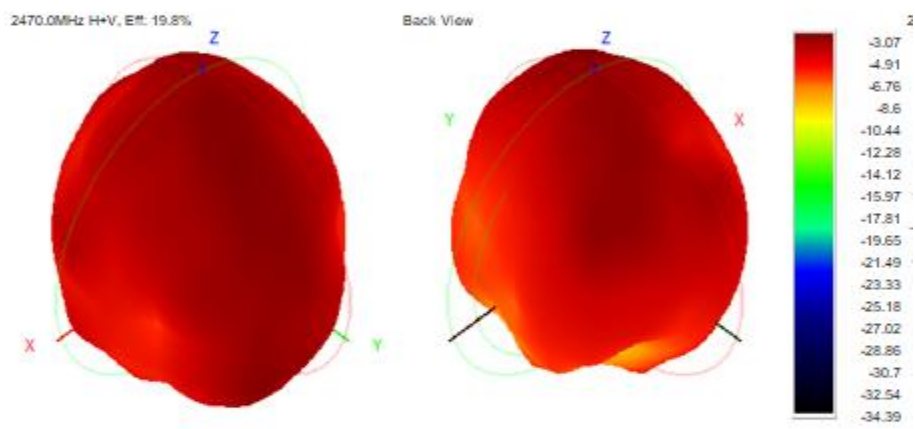
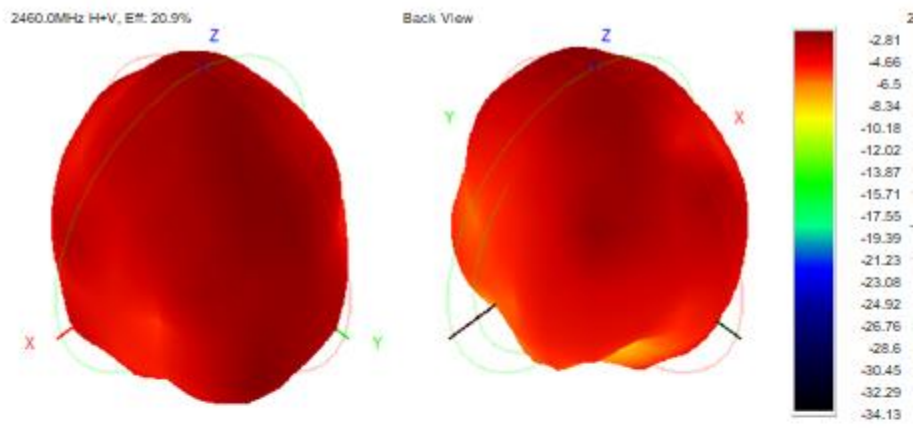
—: Antenna Efficiency&PeakGain

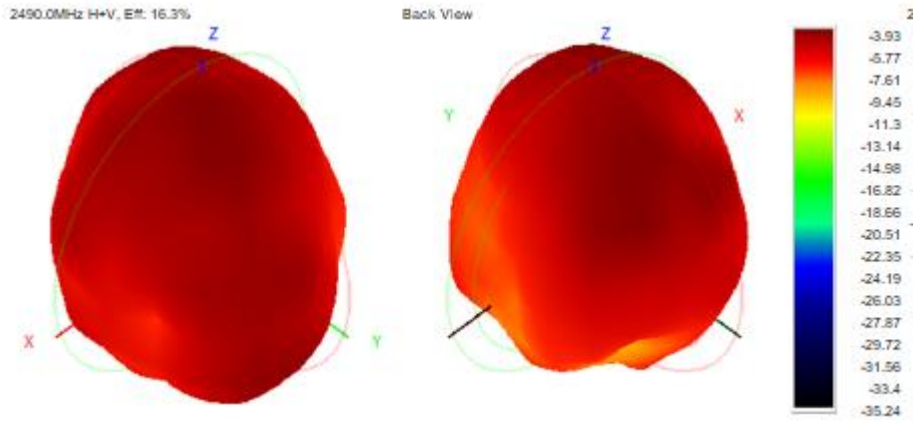
Frequency ID	1	2	3	4	5	6	7	8	9	10
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0
Efficiency (dBi)	-8.34	-7.67	-7.32	-7.10	-6.94	-6.83	-6.80	-7.03	-7.42	-7.89
Gain (dBi)	-4.06	-3.33	-3.05	-2.85	-2.63	-2.64	-2.81	-3.07	-3.45	-3.93
Efficiency (%)	14.64	17.10	18.53	19.51	20.25	20.75	20.89	19.82	18.11	16.27
Directivity (dB)	4.28	4.35	4.27	4.24	4.30	4.19	3.99	3.96	3.97	3.96
Peak Gain Position (Theta)	0.00	0.00	0.00	45.00	45.00	45.00	30.00	30.00	15.00	15.00
Peak Gain Position (Phi)	120.00	120.00	90.00	75.00	75.00	75.00	60.00	60.00	45.00	45.00
Efficiency ThetaPol (%)	5.38	6.32	6.92	7.37	7.79	8.08	8.19	7.79	7.11	6.36
Efficiency PhiPol (%)	9.26	10.78	11.61	12.14	12.46	12.67	12.69	12.04	11.00	9.90
Upper Hem. Efficiency (%)	9.05	10.64	11.55	12.18	12.66	12.95	13.08	12.44	11.36	10.21
Lower Hem. Efficiency (%)	5.59	6.46	6.99	7.33	7.59	7.81	7.81	7.38	6.75	6.06

三: Antenna 3D (2400MHz-2490MHz)









四： Test Pic

