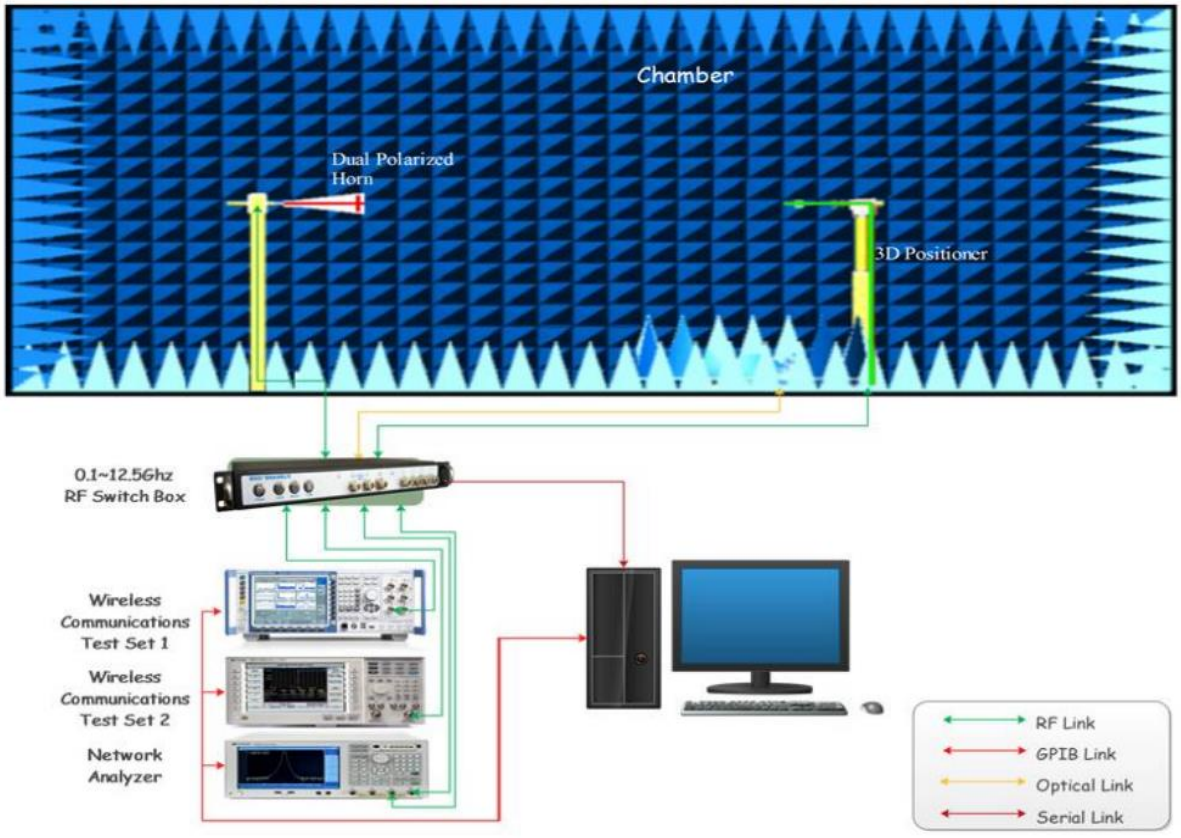
GQ5020-4G antenna report

Test Address	Shenzhen3Good Wireless Communications CO.,LTD Room501,Jinfulai Building,No.49-1,Dabao Road,Baoan District,Shenzhen
Test Date	2025-5-22
Test Instrument	vector network analyzer -Agilent Technologies E5071B

Iption Measurement procedure



Antenna information:

Customer	Boat of wealth
Antenna Model	LDS
Antenna Type	PIFA

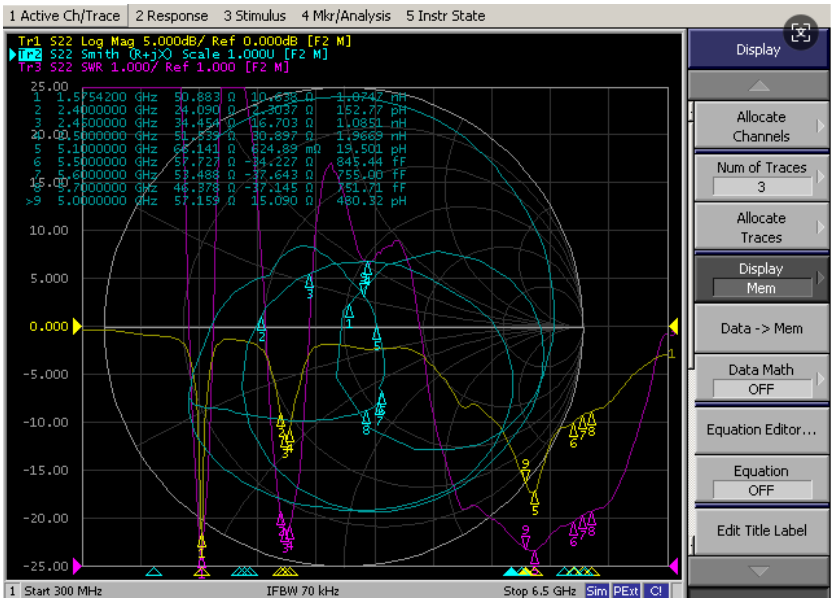
Passive performance figure:

Frequency(MHZ)	703~960	1710~2690
VSWR	＜3.5	＜3.5

ANT0 Passive Efficiency Data & Gain

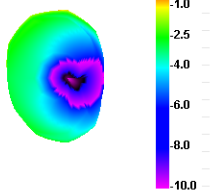
band	Freq(MHz)	Effi(%)	Gain(dBi)
BT&BLE&2.4G Wi-Fi	2450	35.89	0.3
5G Wi-Fi	5200	35.4	-0.1
5G Wi-Fi	5300	40.4	0.3
5G Wi-Fi	5800	43.4	1.1
GPS	1575	30.16	-0.0

ANT0 log Mag/SWR/smith

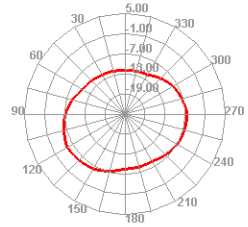


ANT0 3-D Patten Plots

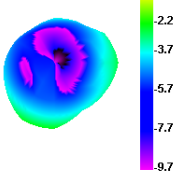
1575.000MHz



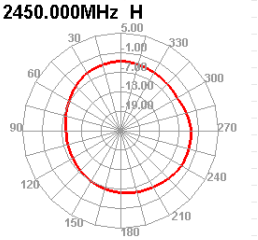
1575.000MHz H



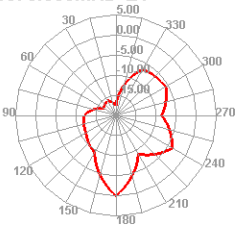
2450.000MHz



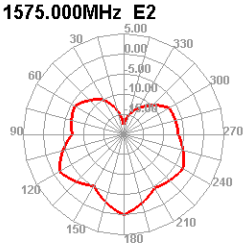
2450.000MHz H



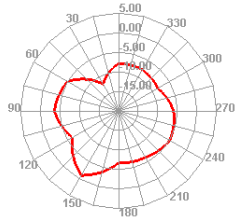
1575.000MHz E1



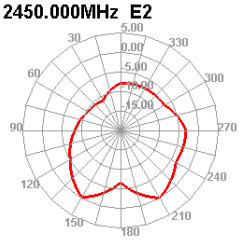
1575.000MHz E2



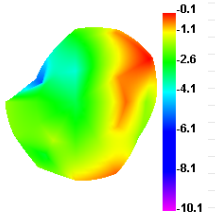
2450.000MHz E1



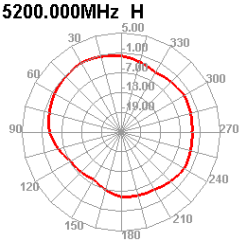
2450.000MHz E2



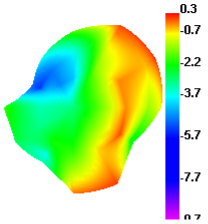
5200.000MHz



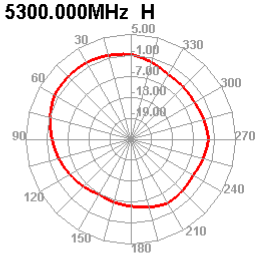
5200.000MHz H



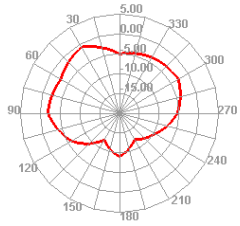
5300.000MHz



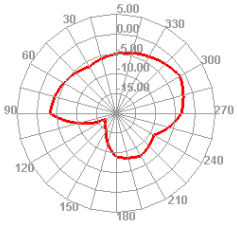
5300.000MHz H



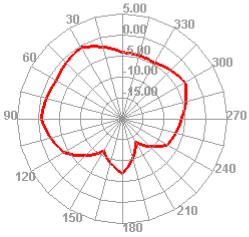
5200.000MHz E1



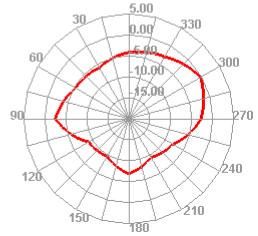
5200.000MHz E2



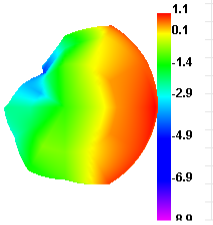
5300.000MHz E1



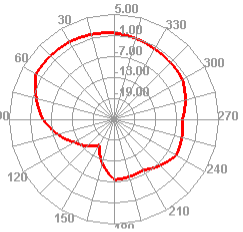
5300.000MHz E2



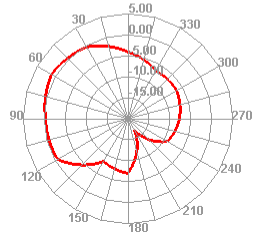
5800.000MHz



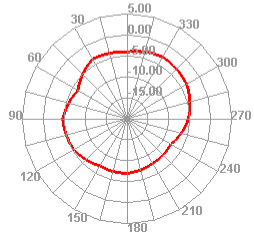
5800.000MHz H



5800.000MHz E1



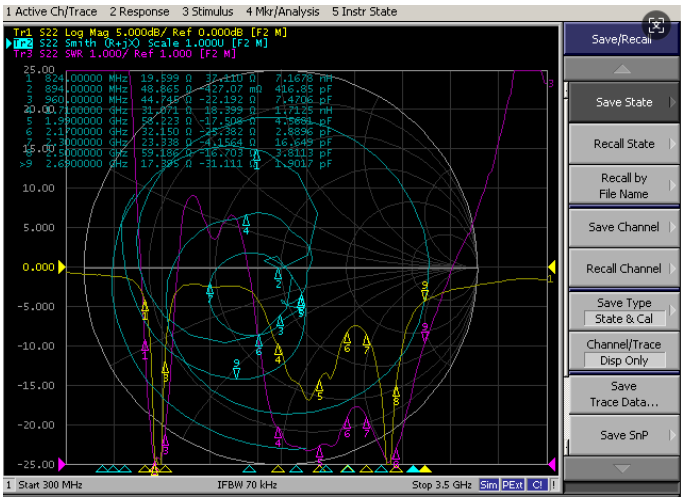
5800.000MHz E2



ANT2 Passive Efficiency Data & Gain

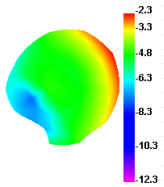
band	Freq(MHz)	Effi(%)	Gain(dBi)
DCS1800	1720	30.05	-2.3
PCS1900	1900	30.76	-0.1
CDMA BC1	1900	30.76	-0.1
WCDMA B1	1980	27.65	-0.1
WCDMA B2	1900	30.76	-0.1
WCDMA B4	1720	30.05	-2.3
LTE B1	1980	27.65	-0.1
LTE B2	1900	30.76	-0.1
LTE B3	1720	30.05	-2.3
LTE B4	1740	30.74	-2.3
LTE B7/B38/41	2550	30.3	-1.3
LTE B25	1880	30.87	-0.1
LTE B34	2020	28.94	-0.6
LTE B39	1840	35.52	-2.6
LTE B40	2350	32.35	-1.0
LTE B66	1720	30.05	-2.3

ANT2 log Mag/SWR/smith

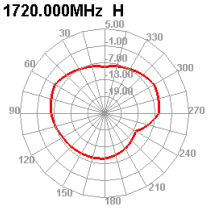


ANT2 3-D Patten Plots

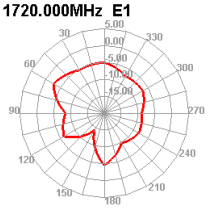
1720.000MHz



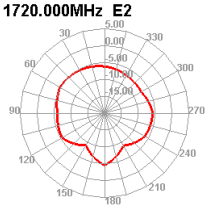
1720.000MHz H



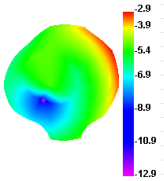
1720.000MHz E1



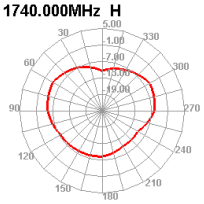
1720.000MHz E2



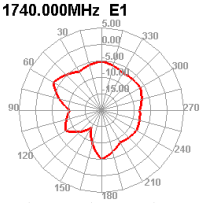
1740.000MHz



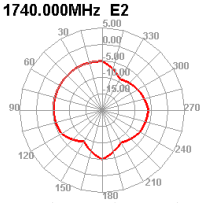
1740.000MHz H



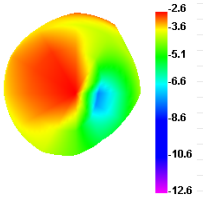
1740.000MHz E1



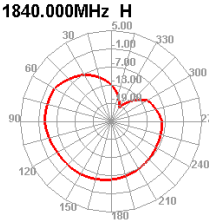
1740.000MHz E2



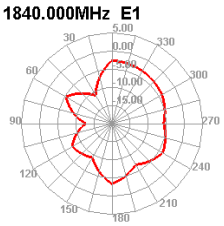
1840.000MHz



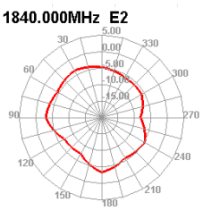
1840.000MHz H



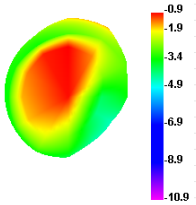
1840.000MHz E1



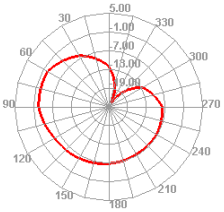
1840.000MHz E2



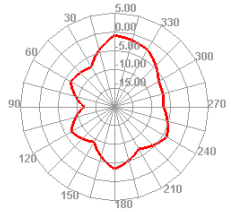
1880.000MHz



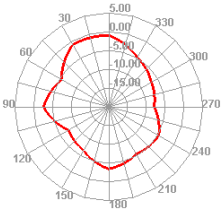
1880.000MHz H



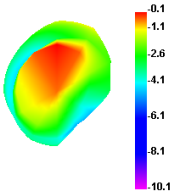
1880.000MHz E1



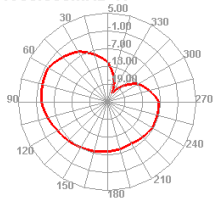
1880.000MHz E2



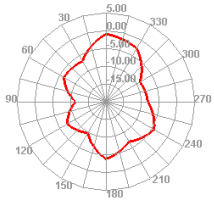
1900.000MHz



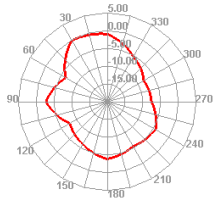
1900.000MHz H

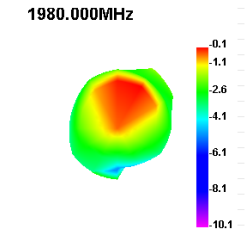


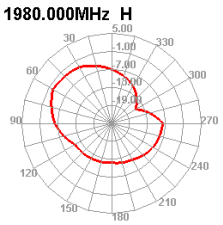
1900.000MHz E1

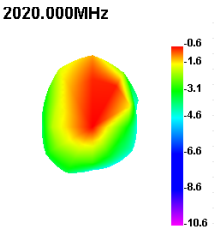


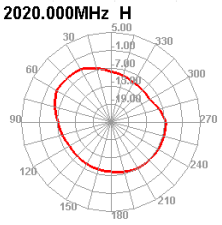
1900.000MHz E2

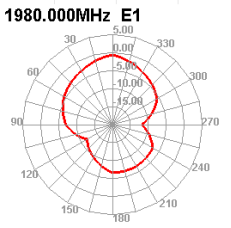


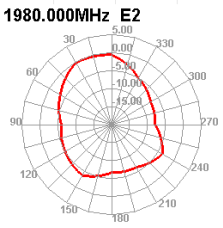

1980.000MHz
-0.1
-1.1
-2.6
-4.1
-6.1
-8.1
-10.1


1980.000MHz H


2020.000MHz
-0.6
-1.6
-3.1
-4.6
-6.6
-8.6
-10.6


2020.000MHz H


1980.000MHz E1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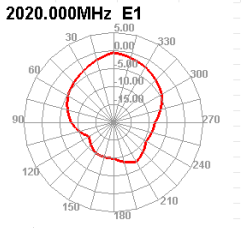
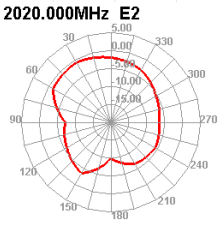
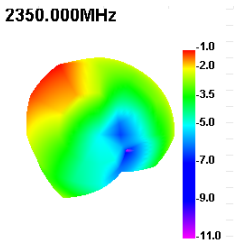
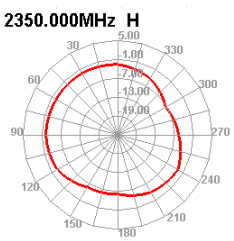
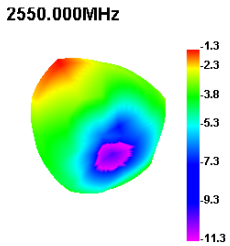
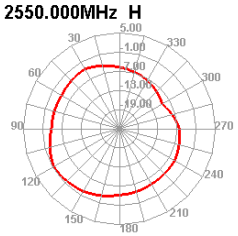

2020.000MHz E1

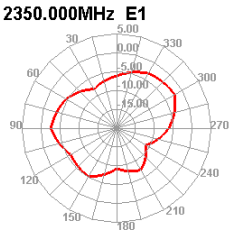

2020.000MHz E2

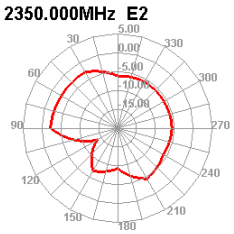

2350.000MHz
-1.0
-2.0
-3.5
-5.0
-7.0
-9.0
-11.0

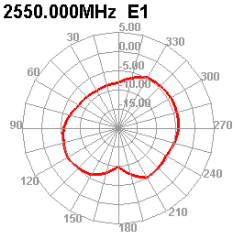

2350.000MHz H

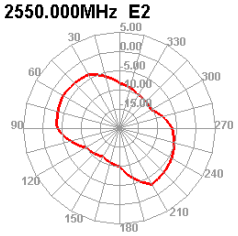

2550.000MHz
-1.3
-2.3
-3.8
-5.3
-7.3
-9.3
-11.3


2550.000MHz H


2350.000MHz E1


2350.000MHz E2


2550.000MHz E1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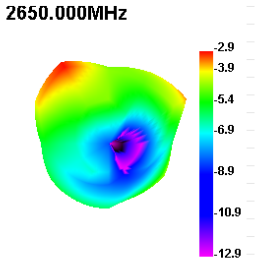
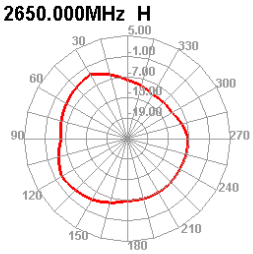
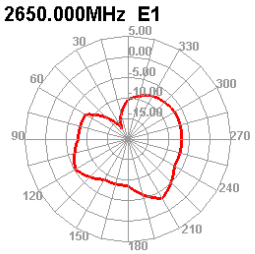
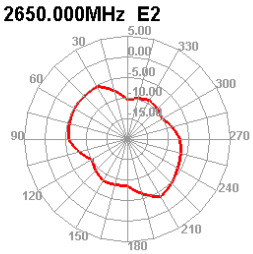

2650.000MHz
-2.9
-3.9
-5.4
-6.9
-8.9
-10.9
-12.9


2650.000MHz H

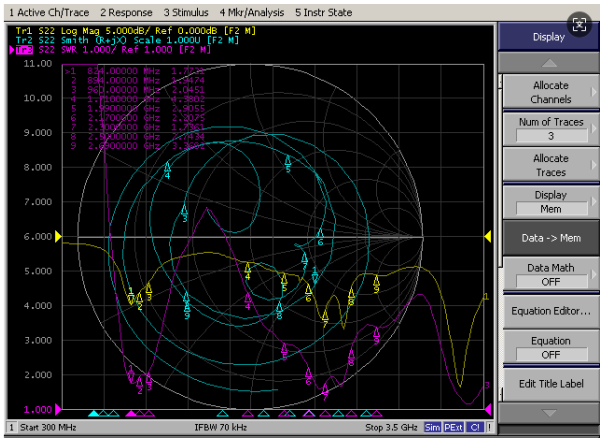

2650.000MHz E1


2650.000MHz E2

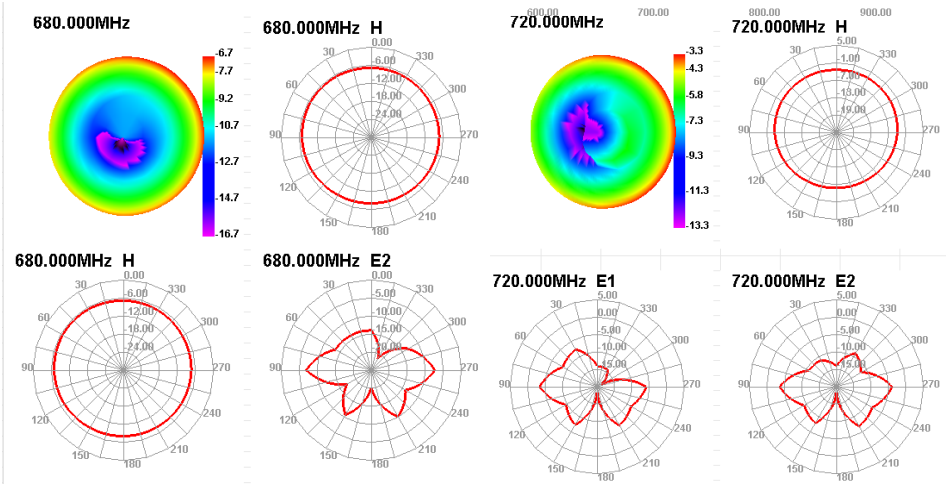
ANT5 Passive Efficiency Data & Gain

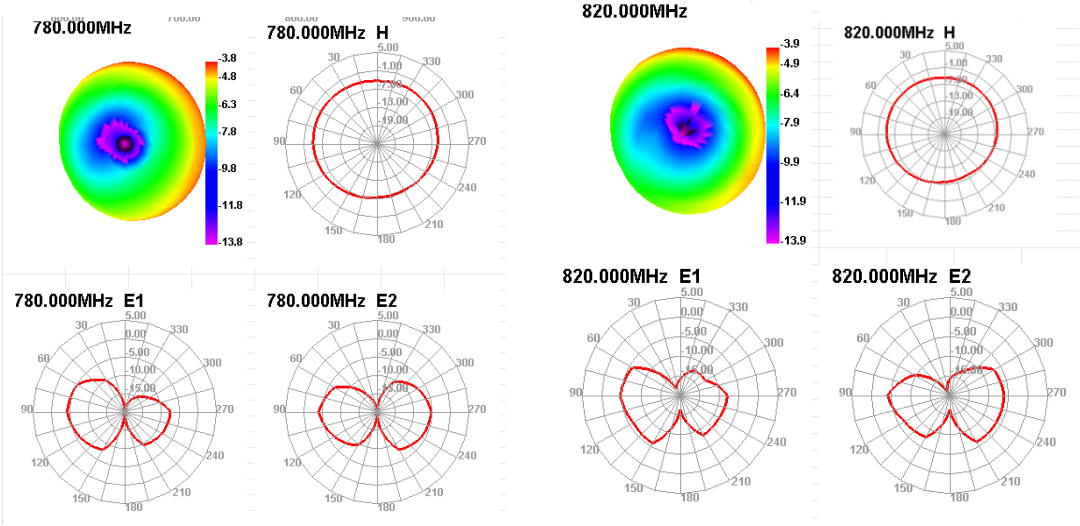
band	Freq(MHz)	Effi(%)	Gain(dBi)
CDMA BC0/BC10	820	24.47	-3.9
GSM850	830	25.51	-3.8
WCDMA B5/B6/B19	830	25.51	-3.8
LTE/B5/B18/B19B20B26	830	25.51	-3.8
GSM900/WCDMA/B8	880	24.84	-3.3
LTE/B8	880	24.84	-3.3
LTE/B13	780	23.75	-3.8
LTE/B12/B17/B28	720	22.39	-3.3
LTE/B71	680	20.51	-6.7
DCS1800	1720	22.05	-2.3
PCS1900	1900	24.76	-0.1
CDMA BC1	1900	24.76	-0.1
WCDMA B1	1980	27.65	-0.1
WCDMA B2	1900	24.76	-0.1
WCDMA B4	1720	22.05	-2.3
LTE B1	1980	27.65	-0.1
LTE B2	1900	24.76	-0.1
LTE B3	1720	22.05	-2.3
LTE B4	1740	22.74	-2.3
LTE B7/B38/41	2550	30.3	-1.3
LTE B25	1880	25.87	-0.9
LTE B34	2020	28.94	-0.6
LTE B39	1840	25.52	-2.6
LTE B40	2350	32.35	-1.0
LTE B66	1720	22.05	-2.3

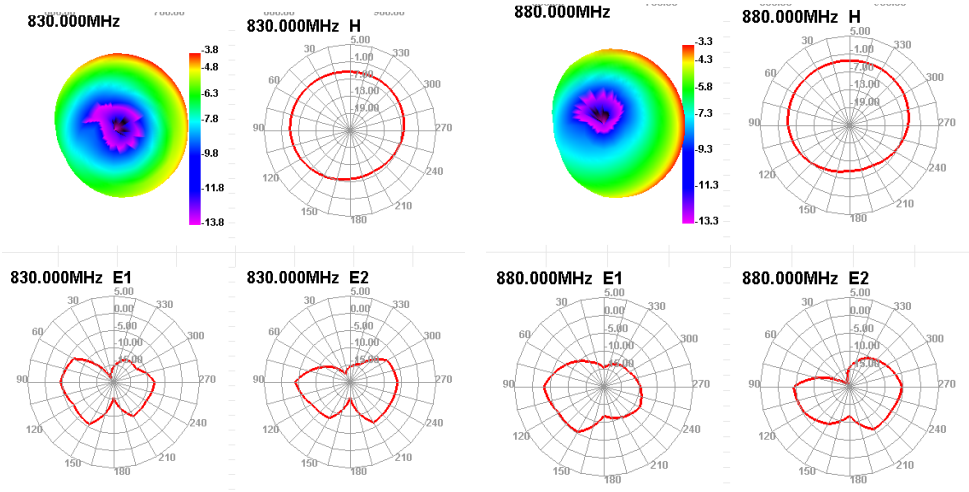
ANT5 log Mag/SWR/smith

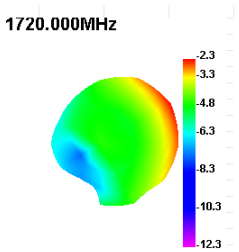


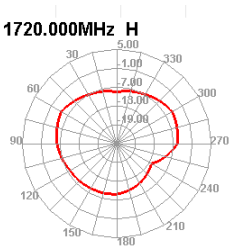
ANT5 3-D Patten Plots

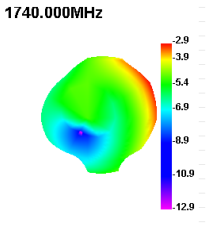


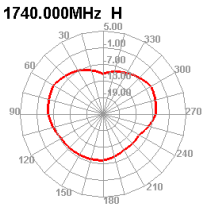


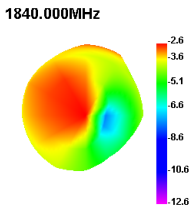


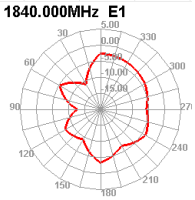

1720.000MHz
-2.3
-3.3
-4.8
-6.3
-8.3
-10.3
-12.3

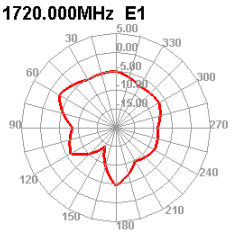

1720.000MHz H

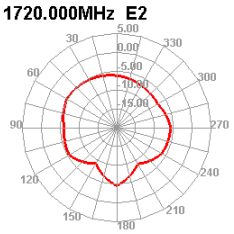

1740.000MHz
-2.9
-3.9
-5.4
-6.9
-8.9
-10.9
-12.9

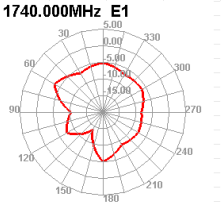

1740.000MHz H

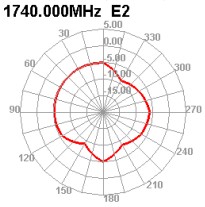

1840.000MHz
-2.6
-3.6
-5.1
-6.6
-8.6
-10.6
-12.6

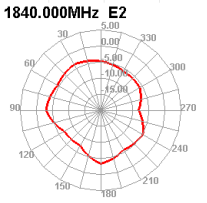

1840.000MHz E1


1720.000MHz E1


1720.000MHz E2


1740.000MHz E1


1740.000MHz E2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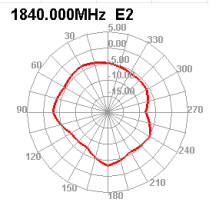
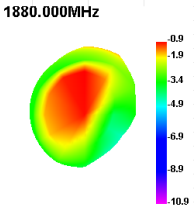
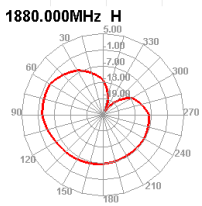
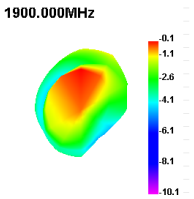
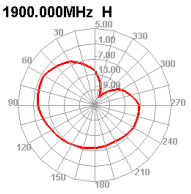
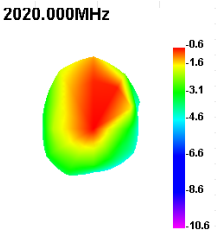

1840.000MHz E2

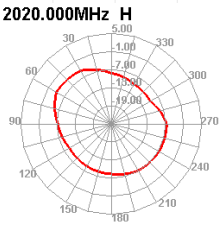

1880.000MHz
-0.9
-1.9
-3.4
-4.9
-6.9
-8.9
-10.9

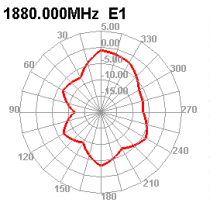

1880.000MHz H

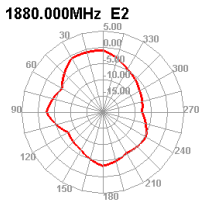

1900.000MHz
-0.1
-1.1
-2.6
-4.1
-6.1
-8.1
-10.1

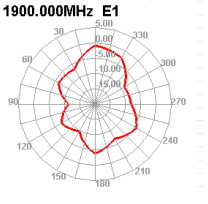

1900.000MHz H

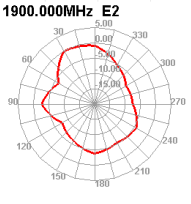

2020.000MHz
-0.6
-1.6
-3.1
-4.6
-6.6
-8.6
-10.6

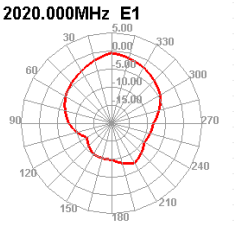

2020.000MHz H

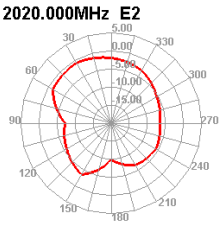

1880.000MHz E1

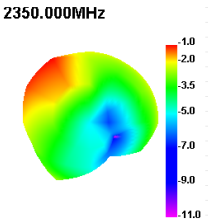

1880.000MHz E2

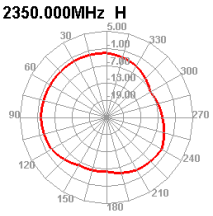

1900.000MHz E1

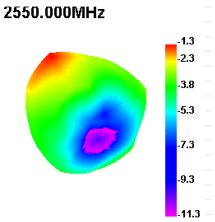

1900.000MHz E2

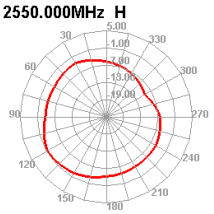

2020.000MHz E1

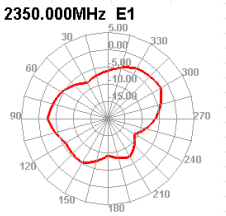

2020.000MHz E2

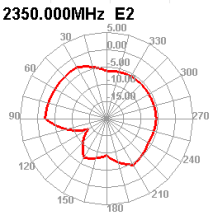

2350.000MHz
-1.0
-2.0
-3.5
-5.0
-7.0
-9.0
-11.0

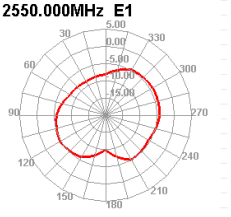

2350.000MHz H

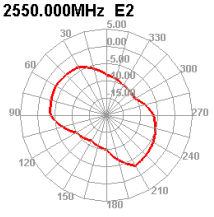

2550.000MHz
-1.3
-2.3
-3.8
-5.3
-7.3
-9.3
-11.3


2550.000MHz H


2350.000MHz E1


2350.000MHz E2


2550.000MHz E1


2550.000MHz E2

Antenna appearing diagram

(Unit:mm)