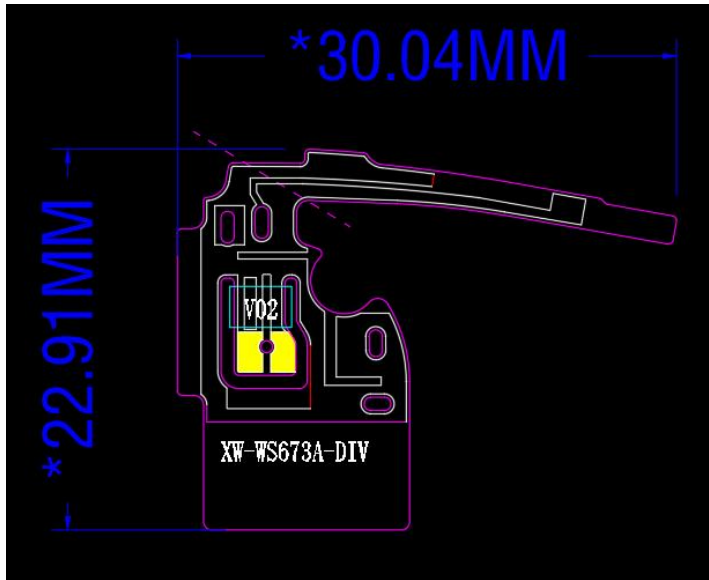
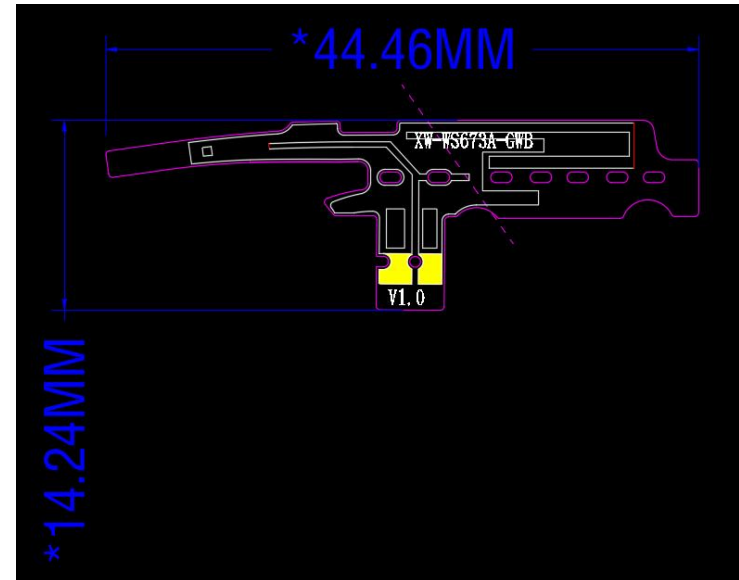


Project: WS673A The beautiful version

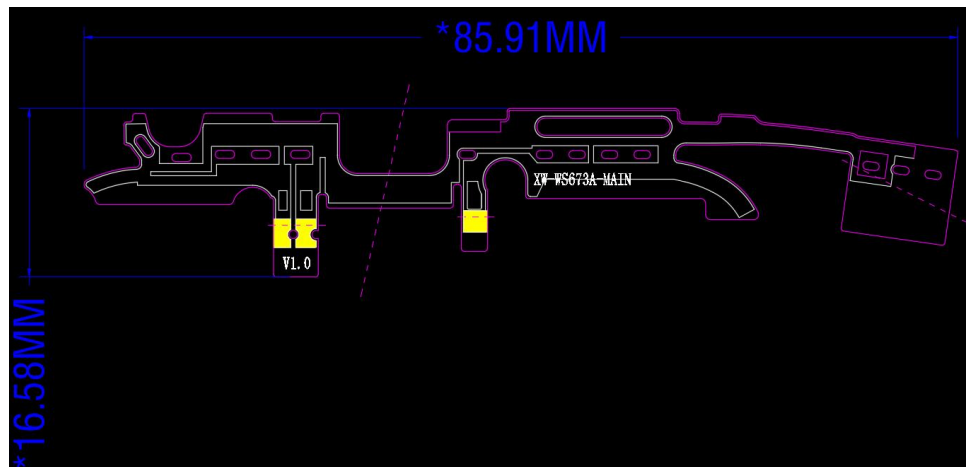
Diversity antenna



Three-in-one antenna (GPS/WIFI/BT)



Main concentrated antenna



WS673A Antenna switch configuration

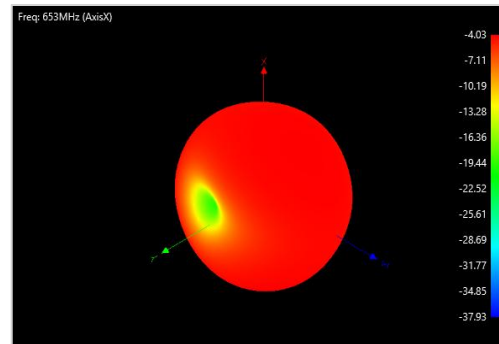
RF port	No.	Application frequency band
RF1	R104	G900 (880-960MHZ)
RF2	R105	G850+W-B5+LTE-B5 (820-890MHZ)
RF3	R107	LTE-B12/B17/B28A/B (699-799MHZ)
RF4	R108	LTE-B71 (633-693MHZ)

Passive Test For
(Main concentrated antenna)
LTE-B71 (633-693MHz)

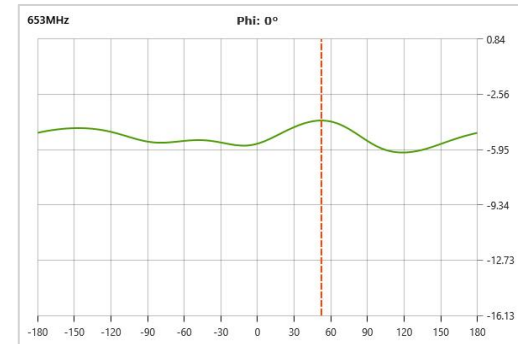
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
633	15.12	-8.2	-6.19
643	15.08	-8.22	-5.63
653	16.15	-7.92	-4.03
663	14.15	-8.49	-4.12
673	12.98	-8.87	-4.91
683	12.15	-9.15	-4.61
693	12.95	-8.88	-3.73

633-693MHZ (3D/H/E1/E2)
(Main concentrated antenna)

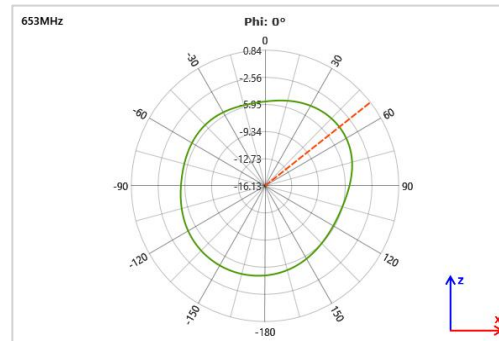
653.000Mhz



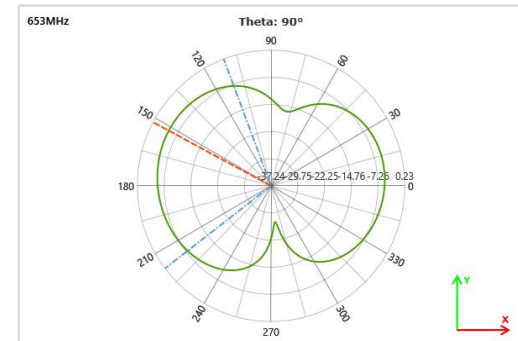
653.000Mhz H



653.000Mhz E1



653.000Mhz E2



Passive Test For

(Main concentrated antenna)

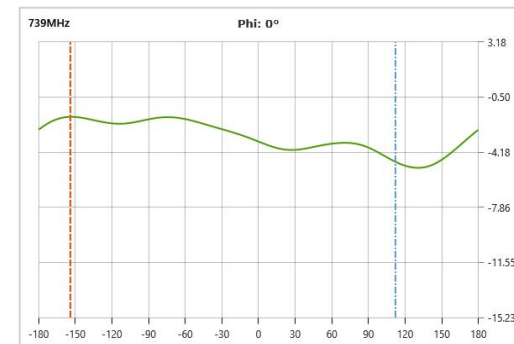
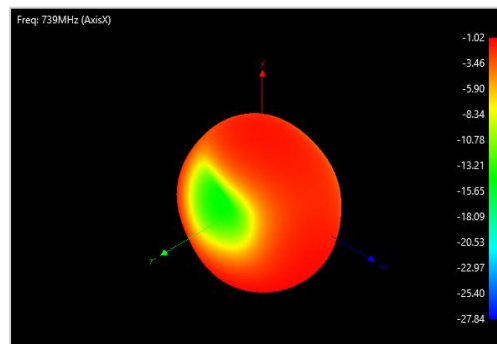
LTE-B12/B17/B28AB (699-799MHZ)

699-799MHZ (3D/H/E1/E2)

(Main concentrated antenna)

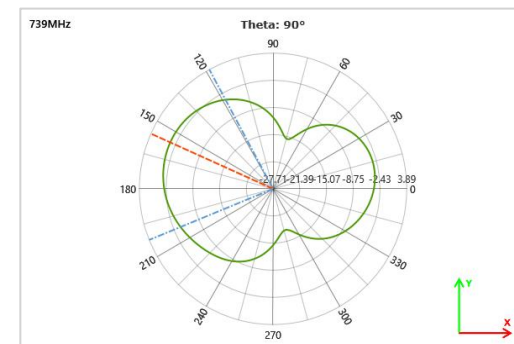
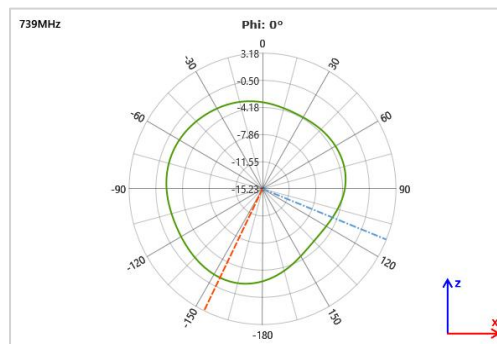
739.000Mhz

739.000Mhz H



739.000Mhz E1

739.000Mhz E2

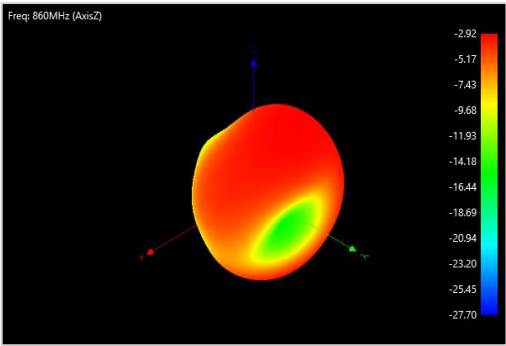


Passive Test For (Main concentrated antenna) G850+W-B5+LTE-B5 (820-890MHZ)

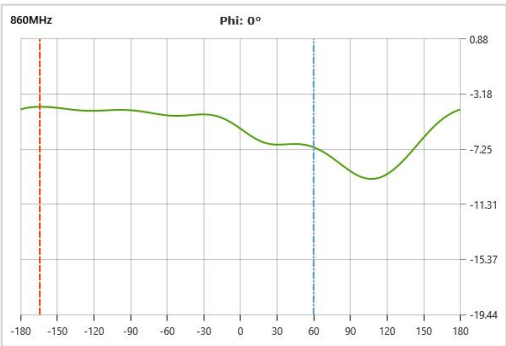
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
820	18.19	-7.4	-2.99
830	19.95	-7	-2.89
840	21.11	-6.76	-2.96
850	21.03	-6.77	-2.98
860	20.68	-6.84	-2.92
870	19.2	-7.17	-2.97
880	18.43	-7.34	-3.53
890	16.99	-7.7	-3.87

820-890MHZ (3D/H/E1/E2) (Main concentrated antenna)

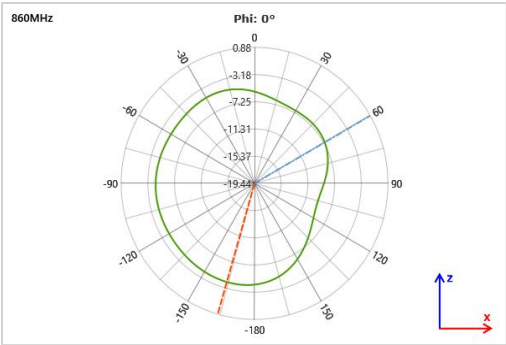
860.000Mhz



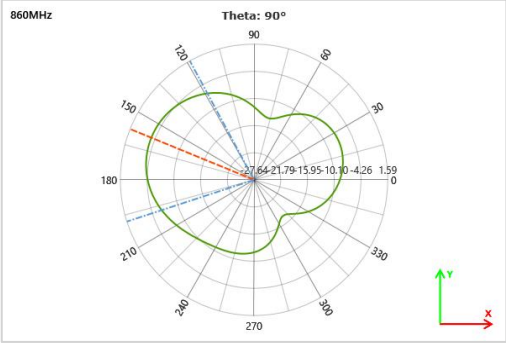
860.000Mhz H



860.000Mhz E1



860.000Mhz E2

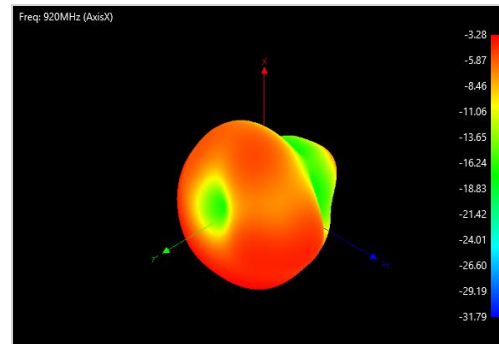


Passive Test For
(Main concentrated antenna)
G900 (880-960MHZ)

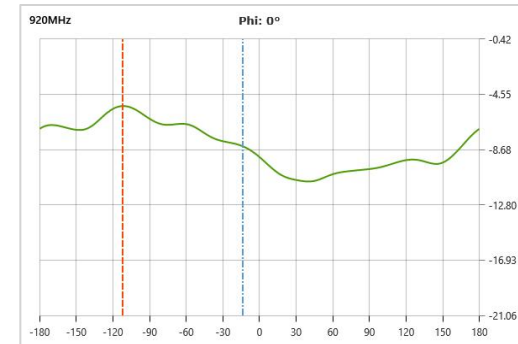
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
880	11.22	-9.5	-5.38
890	13.55	-8.68	-4.7
900	14.87	-8.28	-3.83
910	17.08	-7.68	-3.39
920	18.03	-7.44	-3.28
930	17.88	-7.48	-3.53
940	15.83	-8	-3.78
950	14.57	-8.36	-4.45
960	11.84	-9.27	-5.21

880-960MHZ (3D/H/E1/E2)
(Main concentrated antenna)

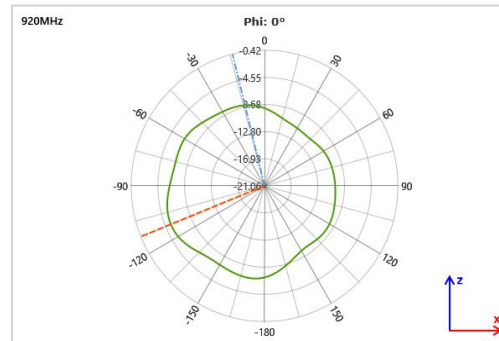
920.000Mhz



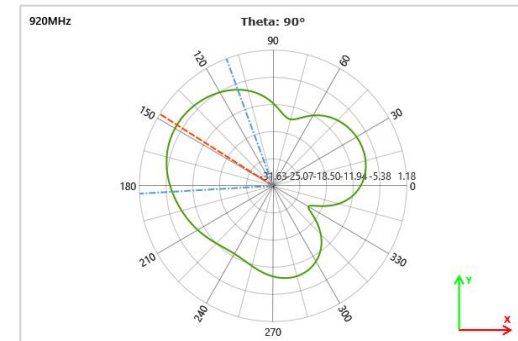
920.000Mhz H



920.000Mhz E1



920.000Mhz E2

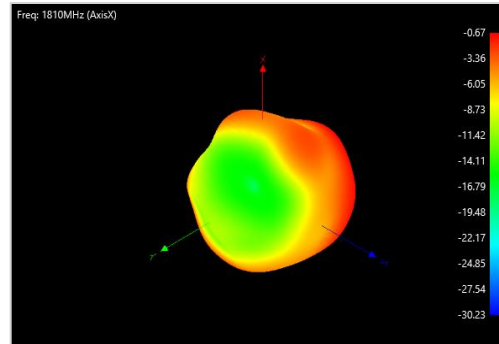


Passive Test For 1710-1840MHZ (Diversity antenna)

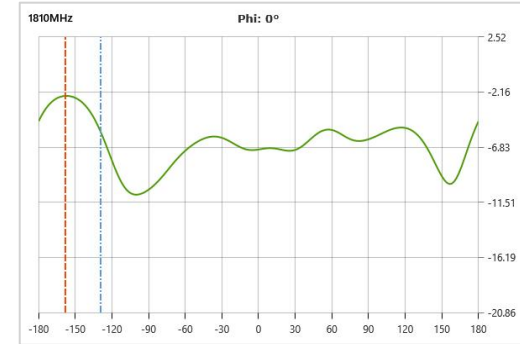
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	23.42	-6.3	-1.55
1720	24.48	-6.11	-1.15
1730	23.89	-6.22	-1.6
1740	26.65	-5.74	-1.12
1750	28.88	-5.39	-0.91
1760	29.16	-5.35	-0.58
1770	29.63	-5.28	-1.05
1780	30.99	-5.09	-1.02
1790	30.27	-5.19	-0.64
1800	31.49	-5.02	-0.54
1810	32.57	-4.87	-0.67
1820	31.07	-5.08	-1.12
1830	30.3	-5.19	-1.17
1840	30.66	-5.13	-0.7

1710-1840MHZ (3D/H/E1/E2) (Diversity antenna)

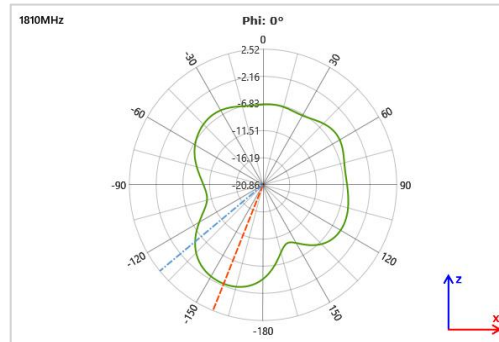
1810.000Mhz



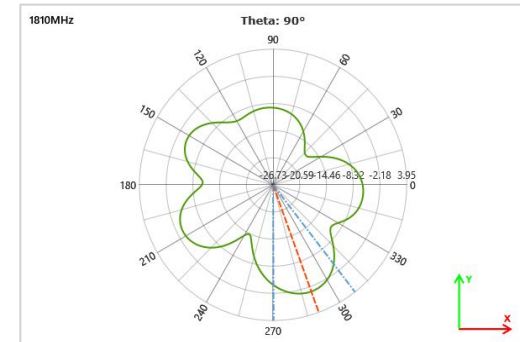
1810.000Mhz H



1810.000Mhz E1



1810.000Mhz E2

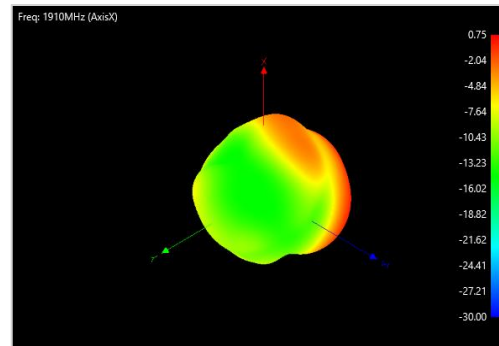


Passive Test For 1850-1980MHZ (Diversity antenna)

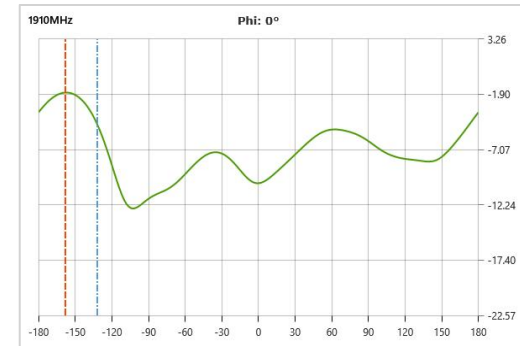
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1850	31.33	-5.04	-0.42
1860	30.88	-5.1	-0.53
1870	30.8	-5.12	-0.05
1880	30.21	-5.2	-0.25
1890	29.44	-5.31	-0.18
1900	29.39	-5.32	0.15
1910	30.76	-5.12	0.75
1920	29.3	-5.33	-0.02
1930	29.34	-5.33	0.07
1940	29.66	-5.28	0.75
1950	28.95	-5.38	0.74
1960	29.39	-5.32	0.7
1970	27.84	-5.55	0.54
1980	26.68	-5.74	0.4

1850-1980MHZ (3D/H/E1/E2) (Diversity antenna)

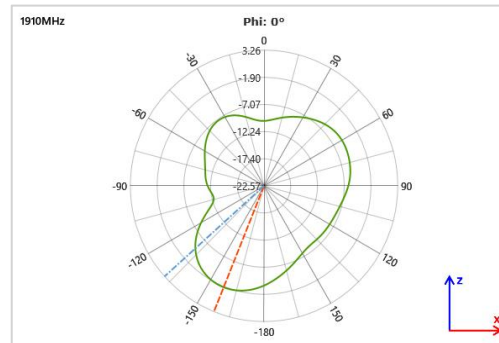
1910.000Mhz



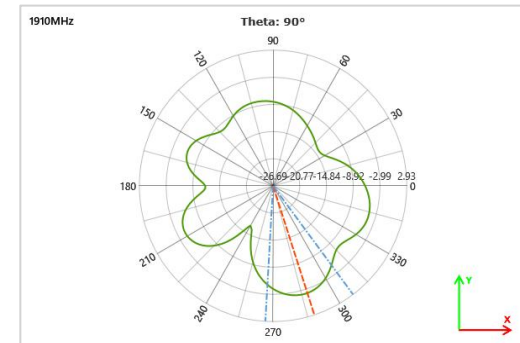
1910.000Mhz H



1910.000Mhz E1



1910.000Mhz E2

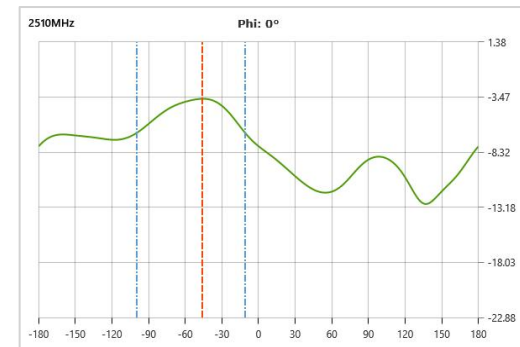
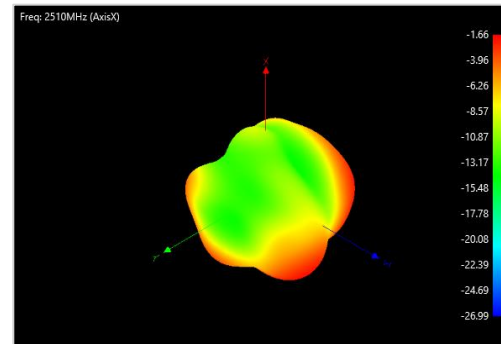


Passive Test For 2490-2530MHZ (Diversity antenna)

2490-2530MHZ (3D/H/E1/E2) (Diversity antenna)

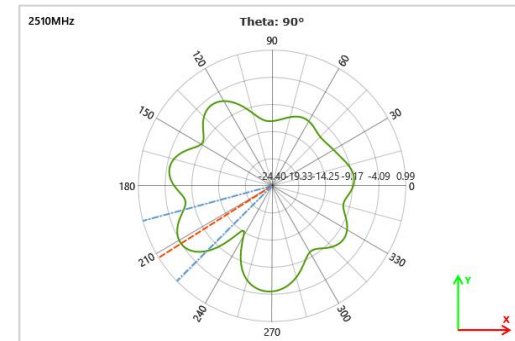
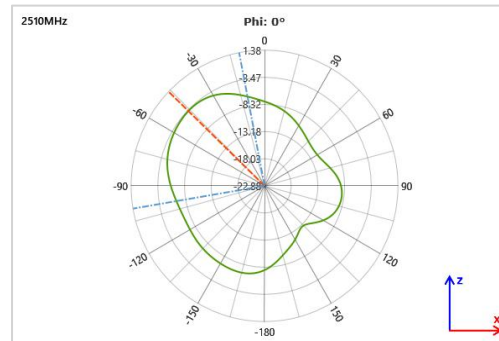
2600.000Mhz

2600.000Mhz H



2600.000Mhz E1

2600.000Mhz E2

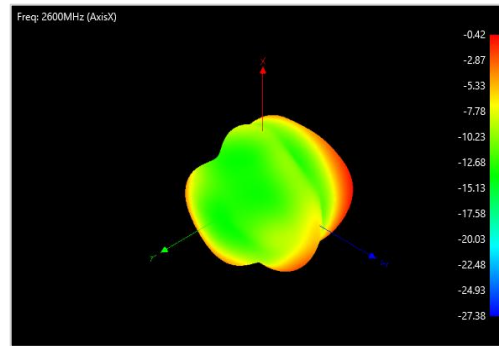


Passive Test For 2530-2660MHZ (Diversity antenna)

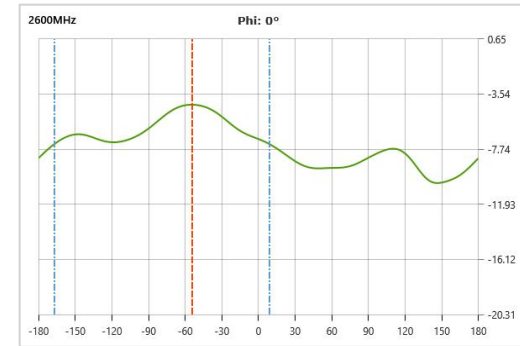
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2530	22.99	-6.38	-1.48
2540	24.43	-6.12	-1.35
2550	24.67	-6.08	-1.35
2560	23.57	-6.28	-1.22
2570	23.5	-6.29	-0.83
2580	23.84	-6.23	-0.78
2590	24.44	-6.12	-0.92
2600	24.76	-6.06	-0.42
2610	24.13	-6.17	-0.41
2620	23.89	-6.22	-0.59
2630	24.61	-6.09	-0.49
2640	24.74	-6.07	-0.47
2650	23.69	-6.25	-0.8
2660	23.05	-6.37	-0.76

2530-2660MHZ (3D/H/E1/E2) (Diversity antenna)

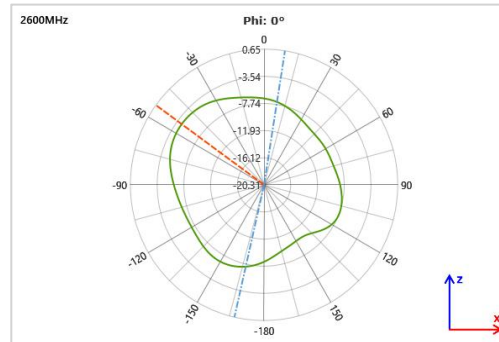
2600.000Mhz



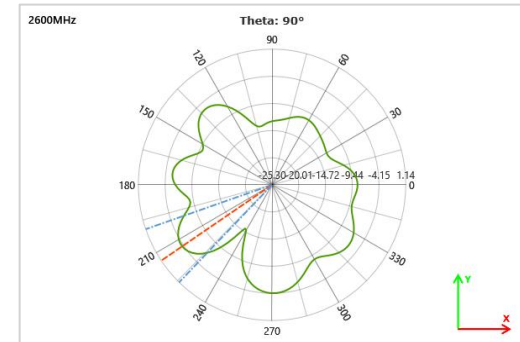
2600.000Mhz H



2600.000Mhz E1



2600.000Mhz E2



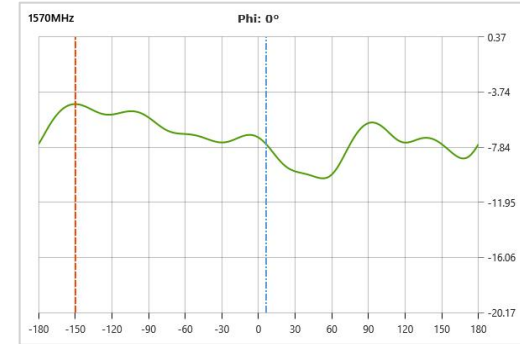
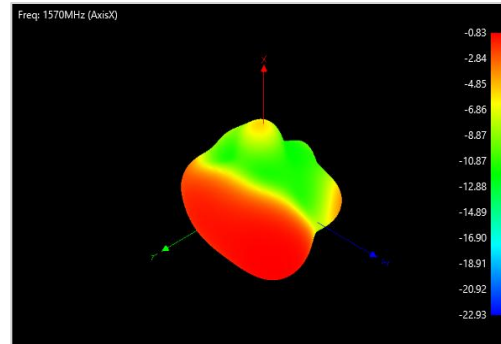
Passive Test For 1500-1600MHZ (Three-in-one antenna)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1500	31.37	-5.04	-1.33
1510	35.91	-4.45	-0.53
1520	35.62	-4.48	-0.12
1530	35.34	-4.52	-0.16
1540	35.75	-4.47	-0.47
1550	35.66	-4.48	-0.31
1560	34.03	-4.68	-0.28
1570	31.39	-5.03	-0.83
1580	30.31	-5.18	-1.03
1590	26.47	-5.77	-1.58
1600	23.21	-6.34	-2.18

1500-1600MHZ (3D/H/E1/E2) (Three-in-one antenna)

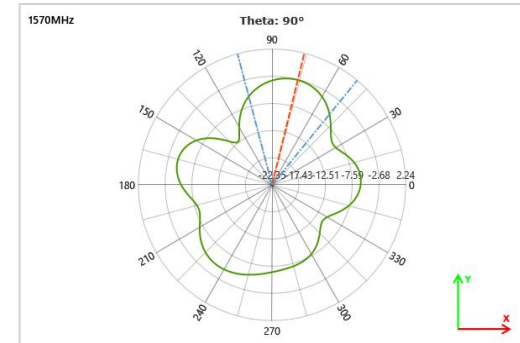
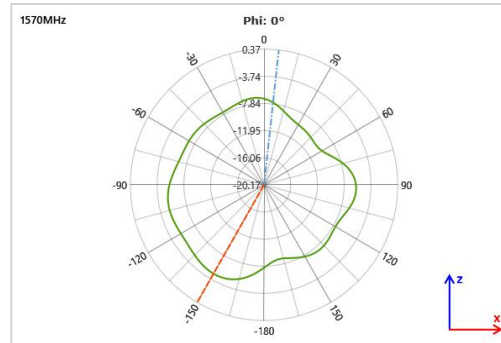
1570.000Mhz

1570.000Mhz H



1570.000Mhz E1

1570.000Mhz E2

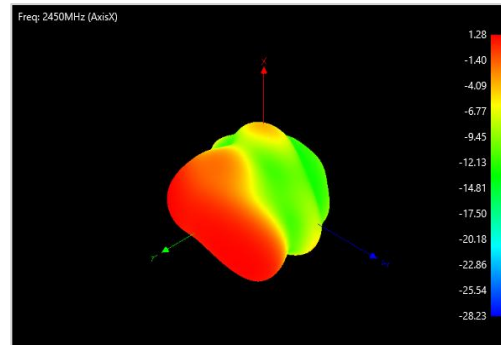


Passive Test For 2400-2500MHZ (Three-in-one antenna)

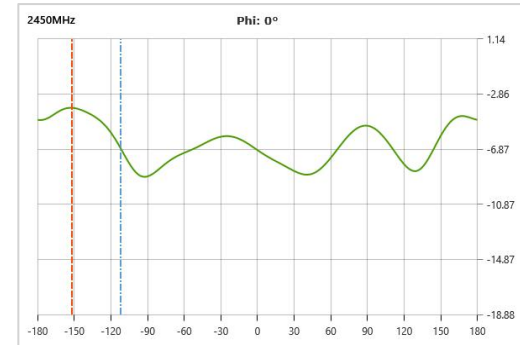
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	33.83	-4.71	1.62
2410	33.24	-4.78	1.73
2420	31.28	-5.05	1.32
2430	31.38	-5.03	1.04
2440	32.7	-4.86	1.23
2450	32.06	-4.94	1.28
2460	30.58	-5.15	1.03
2470	31.01	-5.09	0.34
2480	31.42	-5.03	0.52
2490	30.13	-5.21	0.28
2500	31.04	-5.08	0.27

2400-2500MHZ (3D/H/E1/E2) (Three-in-one antenna)

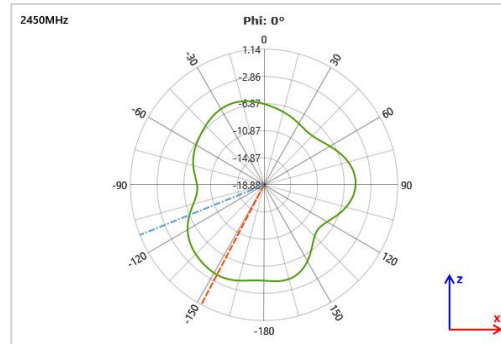
2450.000Mhz



2450.000Mhz H



2450.000Mhz E1



2450.000Mhz E2

