

SPECIFICATION

X530

Product approval sheet

Model name	X530	Band	
Project	X530	Colour	Black
Encoding of bracket antenna		Antenna category	LDS+FPC
Company Name	Shenzhen 3Good Wireless Communication Co., Ltd	address	Room 501,Jinfulai Building A,No.49-1,Dabao Road,Baoan District,Shenzhen

Customer check:

Reach requirement of customer: OK NG

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1 General description

1.1 information of DUT

Set Type	Tablet
Dimension	
Band	3G:B1/B2/B4/B5/B8 4G:B1/2/3/4/5/7/8/12/13/14/20/25/26/28/29/30/38/40/41/42/43/48/66/71 5G :N1/2/3/5/7/8/12/14/25/28/38/40/41/42/48/66/71/77/78
Antenna Material	LDS+FPC

1.2 Photo of DUT

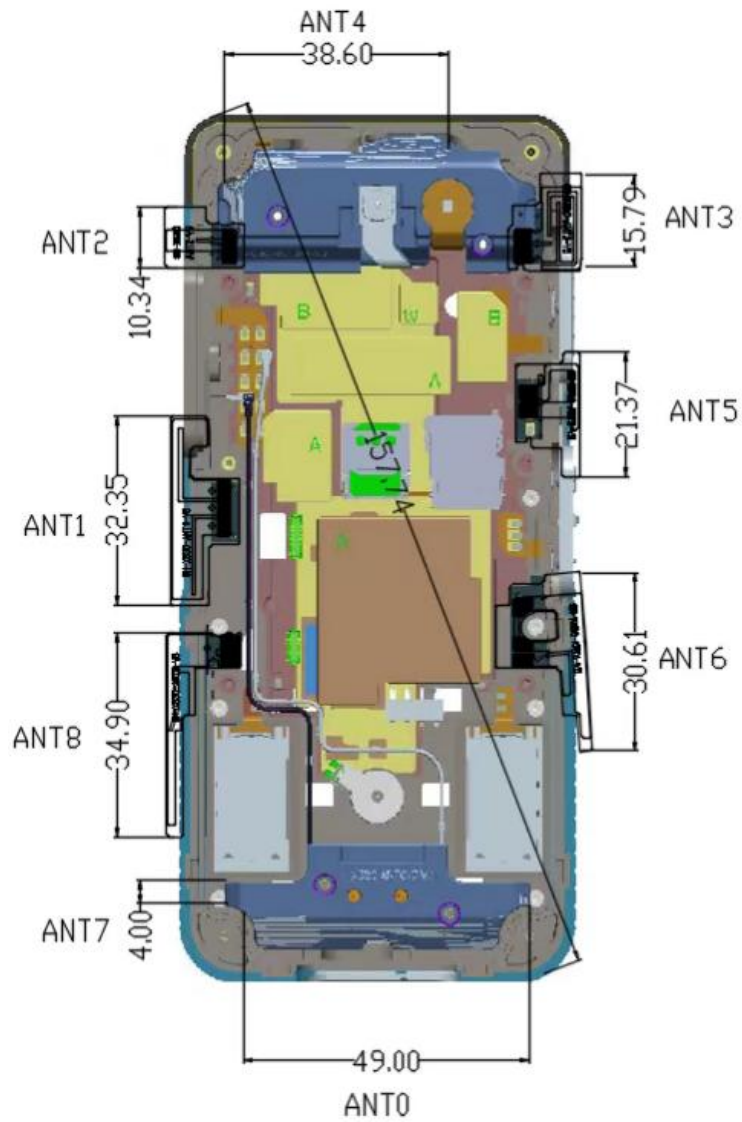


EUT appearing diagram



Antenna location

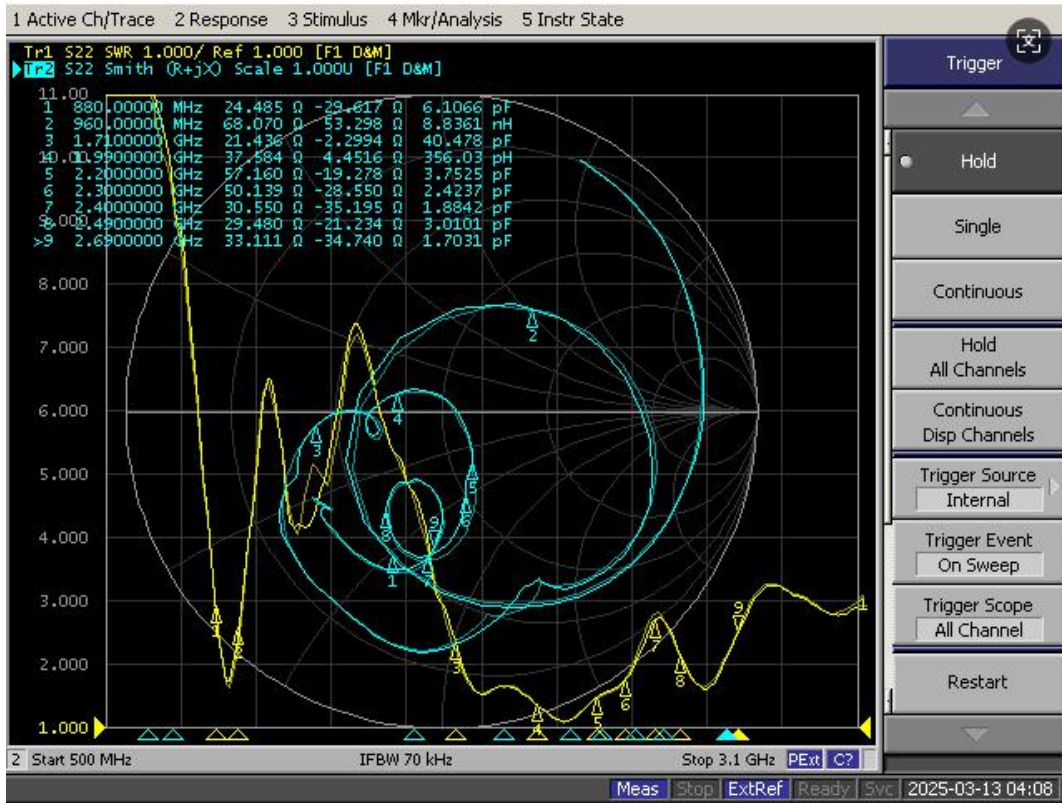
1.3 Antenna appearing diagram



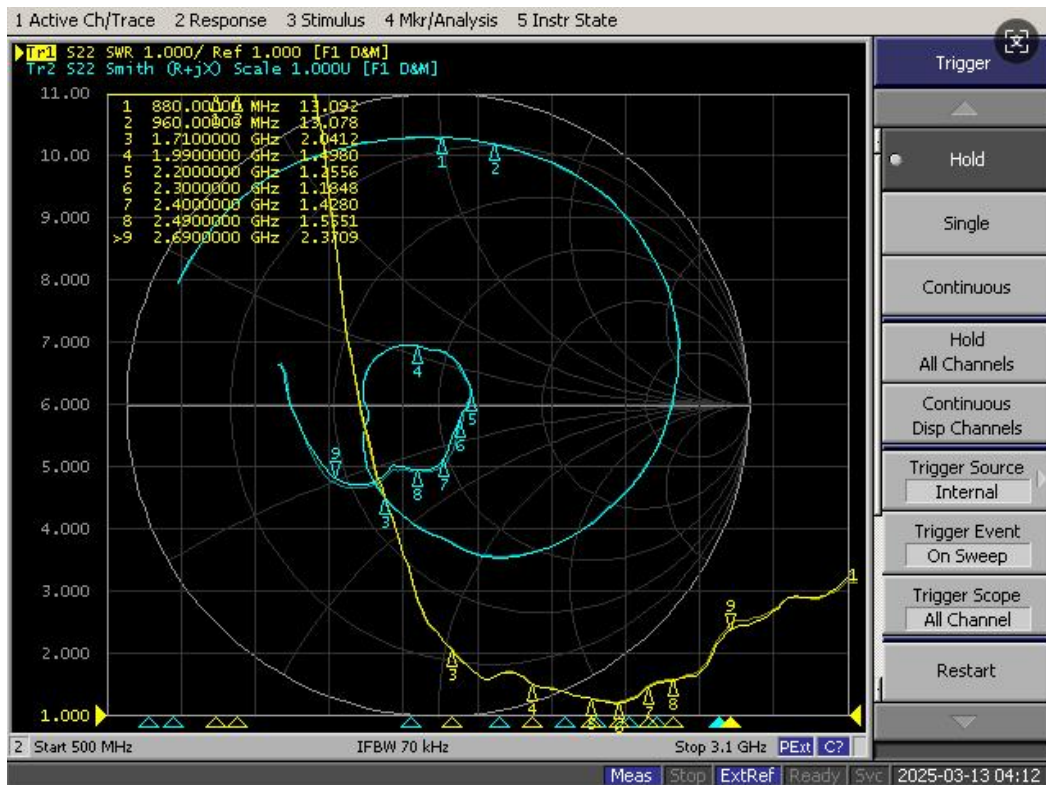
2 Electrical performance

2.11 VSWR

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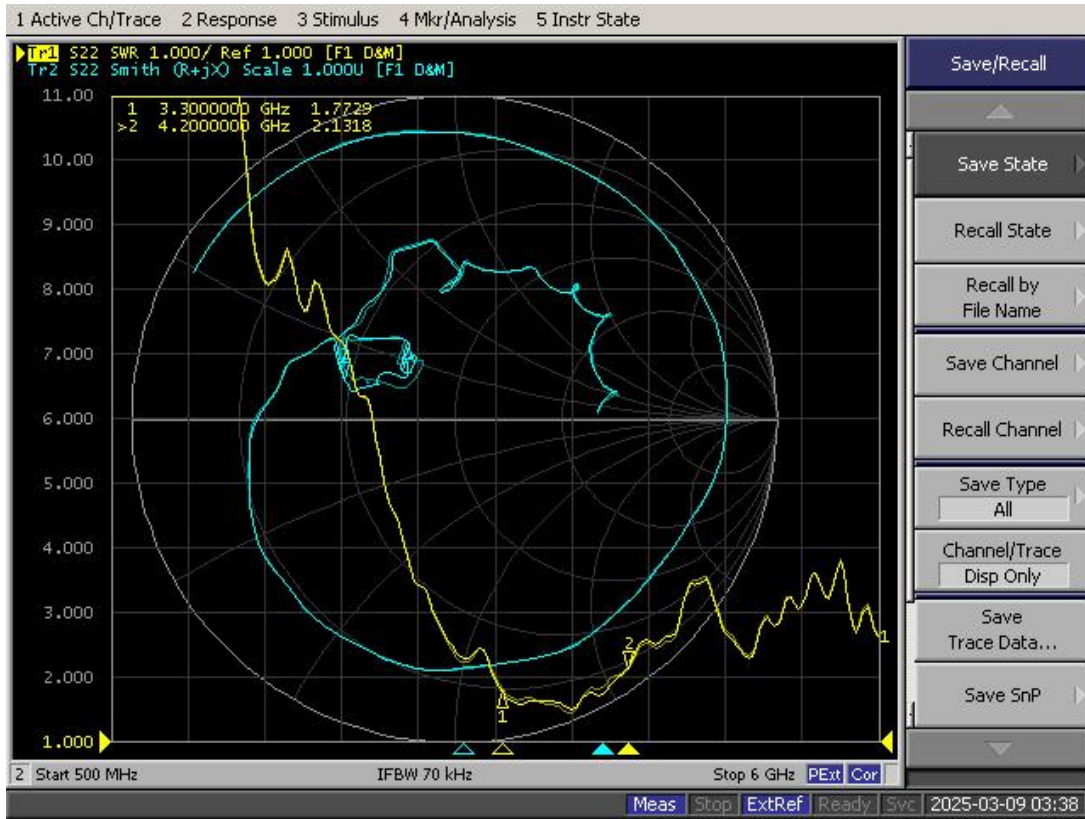


ANT0

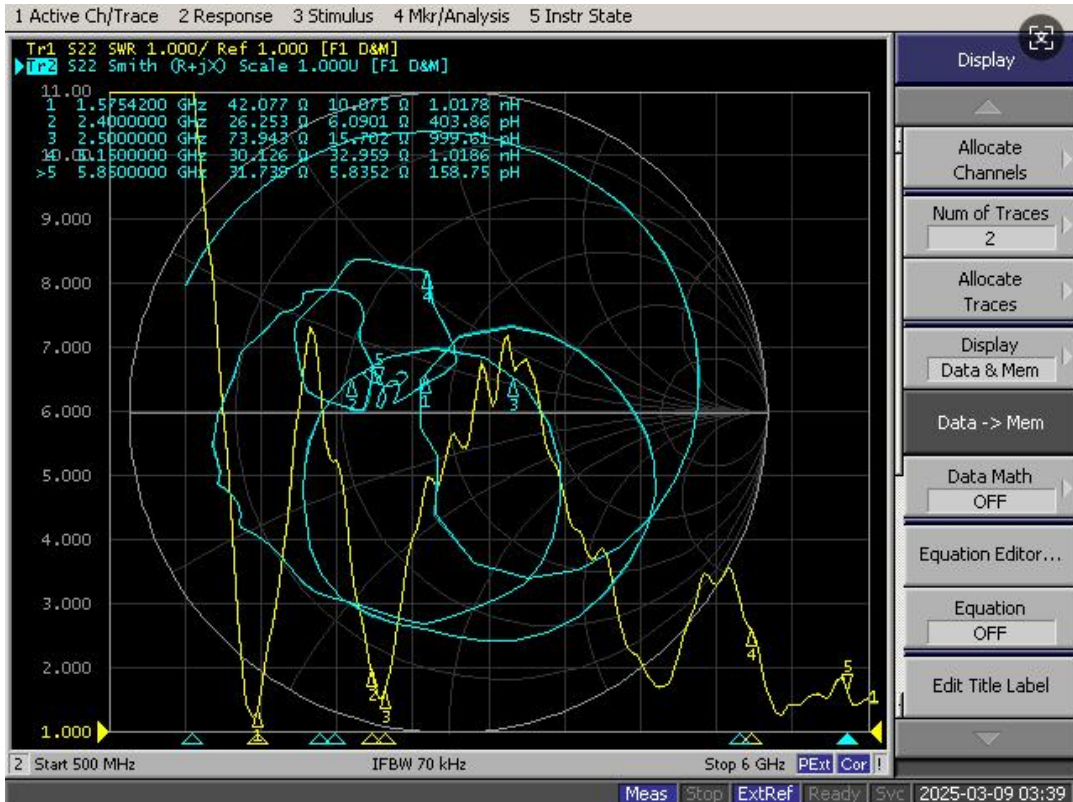


ANT1

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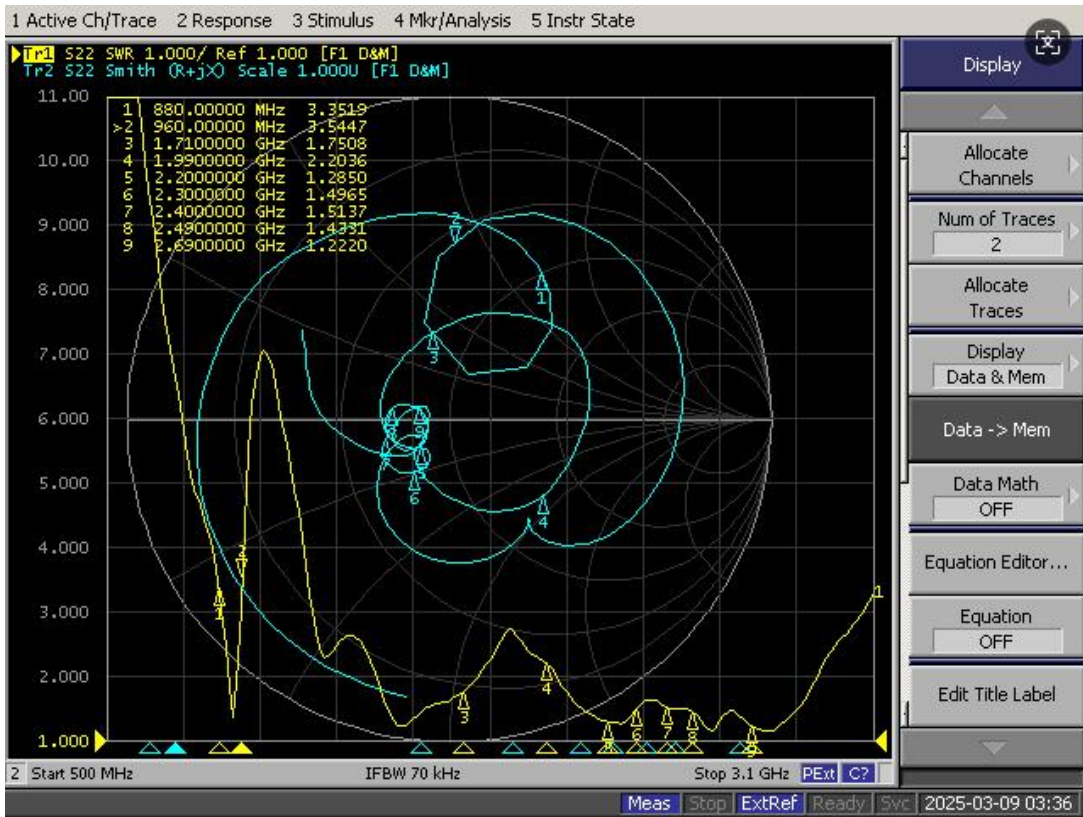


ANT2

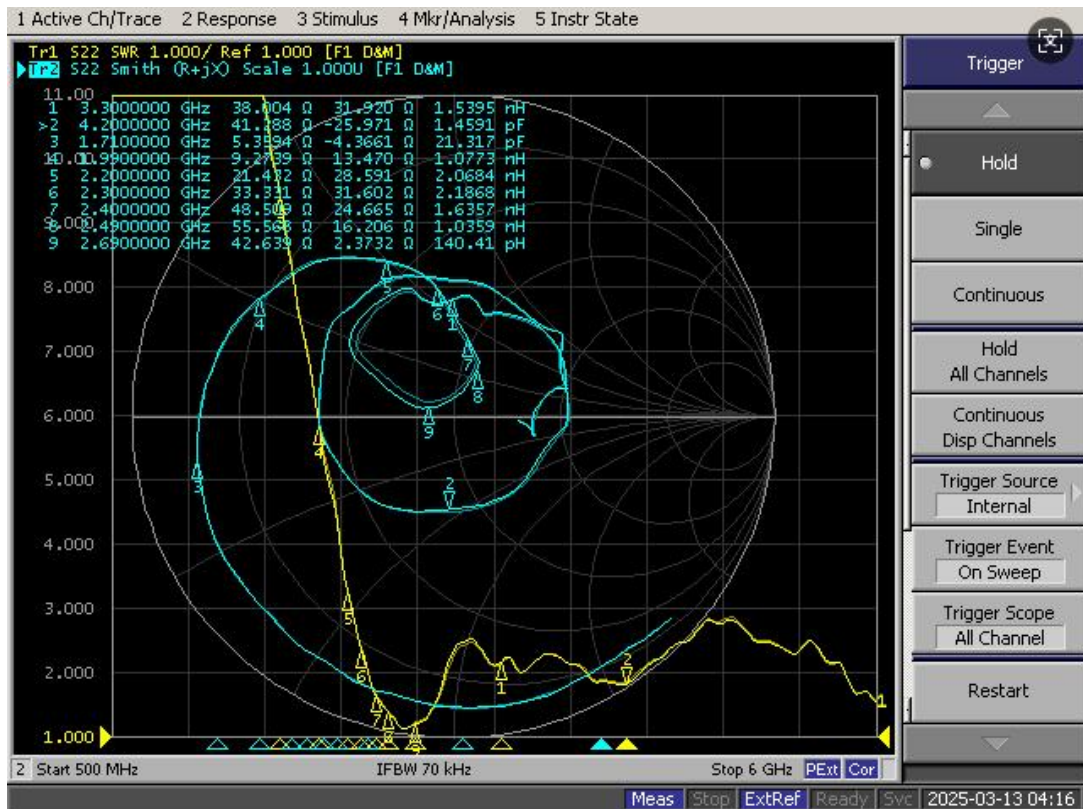


ANT3

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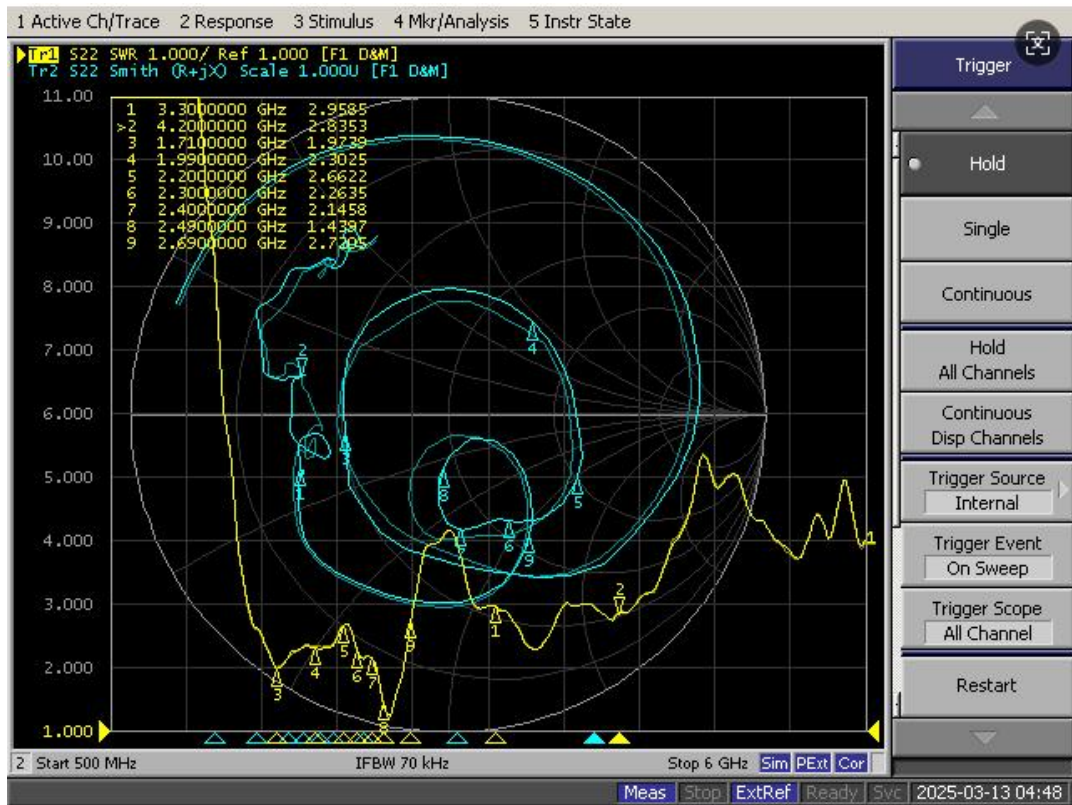


ANT4

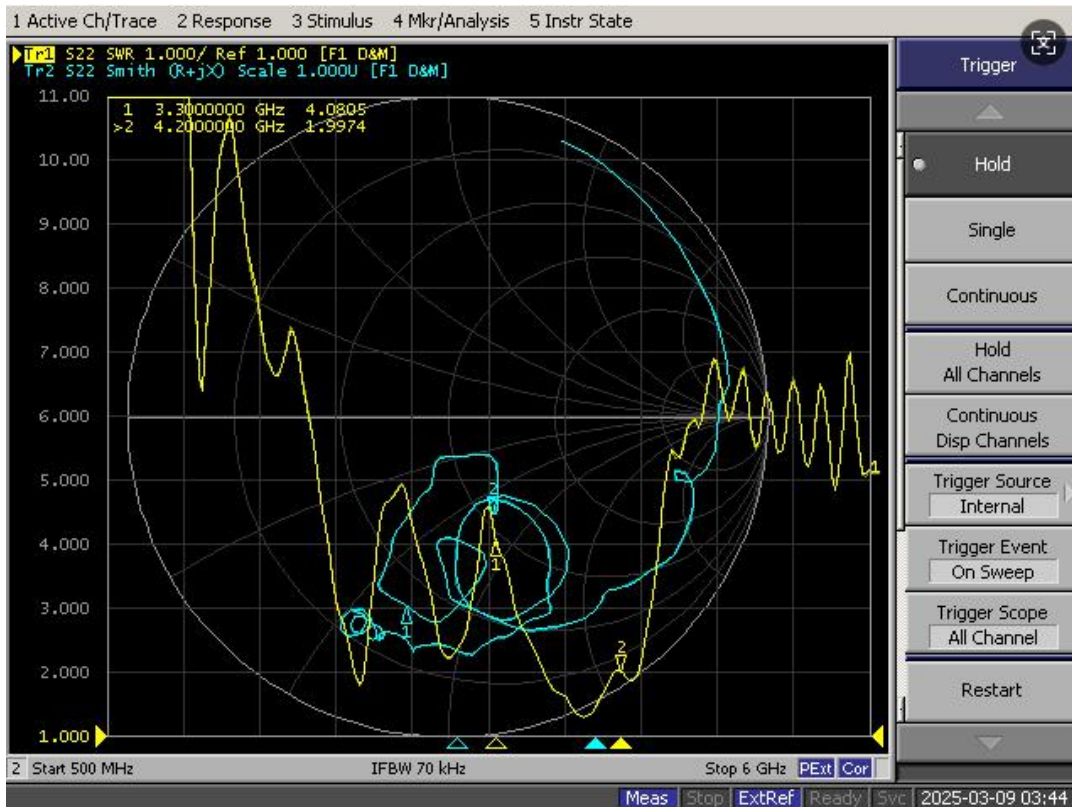


ANT5

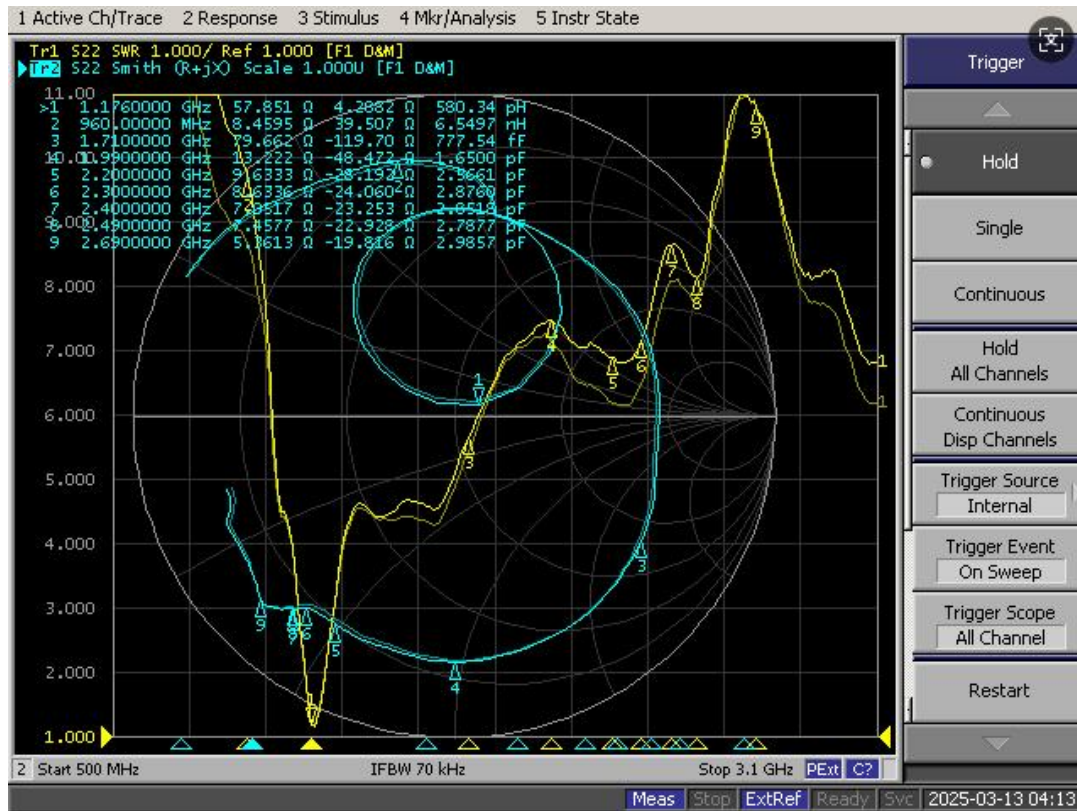
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ANT6



ANT7



ANT8

2.12 Efficiency & Gain

ANT0

Band 28

Band 71

frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)	frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)
700	-4.71	33.81	2.89	610	-5.54	27.93	-4.52
710	-4.7	33.88	2.82	620	-5.55	27.86	-2.74
720	-4.9	32.36	2.29	630	-5.51	28.12	-1.25
730	-4.71	33.81	1.72	640	-5.4	28.84	-0.21
740	-4.15	38.46	2.11	650	-5.22	30.06	1.84
750	-3.71	42.56	2.56	660	-4.95	31.99	3.23
760	-3.73	42.36	2.74	670	-4.75	33.5	3.15
770	-4.15	38.46	2.63	680	-4.41	36.22	2.47
780	-4.56	34.99	2.65	690	-4.04	39.45	2.36
790	-4.71	33.81	2.35				
800	-5.4	28.84	-0.13				

Band 5

Band 8

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frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)	frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)
790	-4.57	34.91	0.64	880	-3.88	40.93	-0.78
800	-4.57	34.91	-1.08	890	-3.75	42.17	-0.49
810	-4.31	37.07	-0.85	900	-3.66	43.05	-0.01
820	-4.03	39.54	-0.86	910	-3.79	41.78	-0.13
830	-3.82	41.5	-0.92	920	-4.21	37.93	-0.52
840	-3.6	43.65	-0.79	930	-4.39	36.39	-0.52
850	-3.2	47.86	-0.61	940	-4.37	36.56	-0.37
860	-3.24	47.42	-0.74	950	-4.35	36.73	-0.35
870	-3.32	46.56	-0.9	960	-4.43	36.06	-0.45
880	-3.47	44.98	-1.2				
890	-3.61	43.55	-1.62				
900	-3.79	41.78	-2.28				

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
1700	-3.24	47.42	0.92	2220	-4.07	39.17	1.42
1720	-3.07	49.32	1.28	2240	-4.39	36.39	0.64
1740	-2.98	50.35	1.15	2260	-5.1	30.9	-0.55
1760	-3.27	47.1	0.98	2280	-5.16	30.48	0.06
1780	-3.24	47.42	0.39	2300	-5.62	27.42	0.42
1800	-3.02	49.89	0.85	2320	-6.08	24.66	0.59
1820	-3.07	49.32	1.62	2340	-6.77	21.04	0.96
1840	-3.05	49.55	1.31	2360	-6.61	21.83	1.22
1860	-3.07	49.32	0.71	2380	-6.38	23.01	1.21
1880	-3.06	49.43	1.1	2400	-6.28	23.55	1.35
1900	-3.18	48.08	1.3	2420	-5.86	25.94	1.49
1920	-3.17	48.19	1.46	2440	-5.59	27.61	1.46
1940	-3.34	46.34	1.35	2460	-5.64	27.29	1.13
1960	-3.33	46.45	1.37	2480	-5.1	30.9	1.04
1980	-3.44	45.29	1.35	2500	-4.82	32.96	1.03
2000	-3.36	46.13	1.5	2520	-4.55	35.08	1.07
2020	-3.43	45.39	1.72	2540	-4.02	39.63	1.32
2040	-3.46	45.08	1.6	2560	-3.96	40.18	1.08
2060	-3.37	46.03	1.61	2580	-3.81	41.59	1.04
2080	-3.75	42.17	0.43	2600	-3.58	43.85	1.01
2100	-4.04	39.45	0.3	2620	-3.62	43.45	0.11
2120	-3.76	42.07	0.98	2640	-3.51	44.57	-0.79
2140	-3.69	42.76	1.63	2660	-3.33	46.45	-1.4
2160	-3.61	43.55	2.29	2680	-3.33	46.45	-1.52
2180	-3.11	48.87	3.15	2700	-3.34	46.34	-1.92

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2200	-3.56	44.06	2.54				
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ANT1

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
1700	-4.35	36.73	1.25	2220	-4.66	34.2	0.06
1720	-3.73	42.36	1.68	2240	-4.6	34.67	0.51
1740	-3.68	42.85	1.7	2260	-5.03	31.41	0.05
1760	-3.74	42.27	1.58	2280	-5.4	28.84	-0.89
1780	-3.87	41.02	1.37	2300	-5.03	31.41	0.55
1800	-4.06	39.26	1.46	2320	-4.97	31.84	0.46
1820	-4.11	38.82	1.72	2340	-5.4	28.84	-0.14
1840	-4.48	35.65	1.6	2360	-5.24	29.92	0.66
1860	-4.44	35.97	1.81	2380	-4.76	33.42	1.55
1880	-4.29	37.24	2.17	2400	-4.51	35.4	1.81
1900	-4.12	38.73	2.28	2420	-4.21	37.93	1.86
1920	-3.41	45.6	2.63	2440	-4.14	38.55	1.49
1940	-3.47	44.98	2.36	2460	-4.38	36.48	1.07
1960	-3.41	45.6	2.23	2480	-4.37	36.56	1.07
1980	-3.52	44.46	1.82	2500	-4.11	38.82	1.32
2000	-3.51	44.57	1.64	2520	-4.22	37.84	1.22
2020	-3.68	42.85	1.22	2540	-4.18	38.19	1.28
2040	-3.57	43.95	1.21	2560	-4.44	35.97	1.11
2060	-3.45	45.19	1.01	2580	-4.51	35.4	1.18
2080	-3.64	43.25	0.71	2600	-4.37	36.56	1.13
2100	-3.67	42.95	0.5	2620	-4.59	34.75	0.76
2120	-3.95	40.27	0.41	2640	-4.65	34.28	0.79
2140	-4.49	35.56	-0.03	2660	-4.56	34.99	1.05
2160	-4.27	37.41	0.46	2680	-4.59	34.75	1.12
2180	-4.46	35.81	0.27	2700	-4.45	35.89	1.91
2200	-4.55	35.08	0.26				

ANT2

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
3300	-3.78	41.88	0.46	3760	-3.03	49.77	1.55
3320	-4.1	38.9	0.24	3780	-3.14	48.53	1.33
3340	-3.75	42.17	0.31	3800	-3.07	49.32	1.36
3360	-3.52	44.46	-0.02	3820	-3.36	46.13	1.21
3380	-3.47	44.98	0.22	3840	-3.25	47.32	1.54
3400	-3.35	46.24	0.38	3860	-3.49	44.77	1.51
3420	-3.3	46.77	0.29	3880	-3.64	43.25	1.76
3440	-3.37	46.03	0.39	3900	-3.93	40.46	1.82

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3460	-3.3	46.77	0.65	3920	-3.63	43.35	2.4
3480	-3.42	45.5	0.68	3940	-3.68	42.85	2.51
3500	-3.42	45.5	0.97	3960	-4.1	38.9	2.13
3520	-3.16	48.31	1.18	3980	-4.12	38.73	2.06
3540	-3.26	47.21	0.76	4000	-4.31	37.07	1.91
3560	-3.5	44.67	0.3	4020	-4.13	38.64	2
3580	-3.39	45.81	0.89	4040	-4.03	39.54	2.07
3600	-3.2	47.86	1.26	4060	-3.95	40.27	2.14
3620	-3.14	48.53	1.26	4080	-4.11	38.82	1.92
3640	-3.17	48.19	1.43	4100	-3.87	41.02	2.31
3660	-3.23	47.53	1.41	4120	-3.9	40.74	2.41
3680	-3.2	47.86	1.57	4140	-4.15	38.46	2.31
3700	-3.09	49.09	1.86	4160	-4.43	36.06	2.14
3720	-3.04	49.66	1.83	4180	-4.37	36.56	2.27
3740	-3.23	47.53	1.48	4200	-4.06	39.26	2.75

ANT3

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
1550	-4.28	37.33	-0.07	2400	-5.46	28.44	-2.55
1555	-4.97	31.84	-0.74	2410	-5.19	30.27	-2.36
1560	-4.21	37.93	-0.42	2420	-5.08	31.05	-2.21
1565	-5.01	31.55	-1.18	2430	-4.94	32.06	-2.22
1570	-4.47	35.73	-1.15	2440	-4.95	31.99	-2.33
1575	-5.49	28.25	-2	2450	-5.17	30.41	-2.35
1580	-4.81	33.04	-1.97	2460	-5.13	30.69	-2.04
1585	-5.88	25.82	-2.82	2470	-5.02	31.48	-1.57
1590	-5.08	31.05	-2.36	2480	-5.09	30.97	-1.11
1595	-5.97	25.29	-3.21	2490	-5.19	30.27	-0.75
1600	-5.19	30.27	-2.61	2500	-5.42	28.71	-0.65

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
5100	-4.76	33.42	0.36	5500	-5.52	28.05	0.33
5120	-4.63	34.43	0.28	5520	-5.6	27.54	0.56
5140	-4.67	34.12	0.31	5540	-5.71	26.85	0.65
5160	-4.66	34.2	0.32	5560	-5.47	28.38	0.68
5180	-4.75	33.5	0.32	5580	-5.94	25.47	1
5200	-4.89	32.43	0.13	5600	-6.28	23.55	0.7
5220	-4.67	34.12	0.14	5620	-6.27	23.6	-0.54
5240	-4.83	32.89	-0.04	5640	-6.49	22.44	0.42
5260	-4.96	31.92	0.1	5660	-6.44	22.7	0.09
5280	-5.19	30.27	0.06	5680	-6.45	22.65	0.14
5300	-5.16	30.48	0.06	5700	-6.51	22.34	-0.1
5320	-5.34	29.24	-0.1	5720	-6.5	22.39	0.1

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5340	-5.32	29.38	-0.19	5740	-6.14	24.32	-0.02
5360	-5.19	30.27	-0.02	5760	-6.3	23.44	-0.09
5380	-5.12	30.76	0.24	5780	-6.48	22.49	-0.34
5400	-5.12	30.76	0.53	5800	-6.3	23.44	-0.13
5420	-5.28	29.65	0.05	5820	-6.44	22.7	-0.19
5440	-5.25	29.85	-0.05	5840	-6.38	23.01	-0.07
5460	-5.24	29.92	0.09	5860	-6.38	23.01	-0.26
5480	-5.48	28.31	0.02	5500	-5.52	28.05	-0.23

ANT4

Band 28

Band 71

frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)	frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)
700	-8.57	13.9	-1.58	610	-12.91	5.12	-10.19
710	-8.08	15.56	-1.5	620	-14.63	3.44	-11.26
720	-7.81	16.56	-1.94	630	-14.24	3.77	-10.88
730	-7.73	16.87	-2.69	640	-11.16	7.66	-7.6
740	-7.16	19.23	-1.9	650	-9.16	12.13	-4.32
750	-7.15	19.28	-1.45	660	-7.68	17.06	-2.01
760	-7.07	19.63	-1.12	670	-7.12	19.41	-1.27
770	-6.82	20.8	-1.04	680	-6.98	20.04	-1.26
780	-6.38	23.01	-0.89	690	-7.39	18.24	-0.7
790	-6.55	22.13	-1.66				
800	-7.68	17.06	-4.48				

Band 8

Band 5

frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)	frequency (MHz)	efficiency (dB)	efficiency (%)	gain (dBi)
880	-7.72	16.9	-4.59	790	-8.52	14.06	-4.77
890	-6.98	20.04	-3.56	800	-7.33	18.49	-3.77
900	-6.47	22.54	-2.8	810	-7.45	17.99	-3.91
910	-5.98	25.23	-2.18	820	-7.62	17.3	-4.45
920	-5.64	27.29	-1.84	830	-7.8	16.6	-4.55
930	-5.81	26.24	-1.72	840	-7.96	16	-4.62
940	-6.32	23.33	-2.16	850	-7.58	17.46	-3.96
950	-6.88	20.51	-2.67	860	-7.65	17.18	-3.71
960	-7.38	18.28	-3.18	870	-7.88	16.29	-3.85

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				880	-8.27	14.89	-4.35
				890	-8.57	13.9	-4.66
				900	-8.55	13.96	-4.68

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
1700	-8.41	14.42	-3.01	2220	-5.24	29.92	-1.32
1720	-7.96	16	-2.49	2240	-5.46	28.44	-1.19
1740	-7.91	16.18	-2.01	2260	-5.62	27.42	-1.35
1760	-7.69	17.02	-2.18	2280	-5.07	31.12	-0.87
1780	-7.58	17.46	-2.6	2300	-4.79	33.19	-0.54
1800	-7.79	16.63	-3.03	2320	-4.96	31.92	-0.55
1820	-7.05	19.72	-1.95	2340	-5.1	30.9	-0.56
1840	-6.52	22.28	-1.46	2360	-4.79	33.19	-0.21
1860	-5.93	25.53	-0.94	2380	-4.71	33.81	-0.33
1880	-5.53	27.99	-0.5	2400	-4.51	35.4	-0.39
1900	-5.06	31.19	0.1	2420	-4.21	37.93	0
1920	-4.62	34.51	0.92	2440	-4.12	38.73	0.16
1940	-4.45	35.89	1.41	2460	-4.52	35.32	-0.32
1960	-4.87	32.58	1.41	2480	-4.25	37.58	-0.15
1980	-4.64	34.36	1.67	2500	-3.98	39.99	0.12
2000	-4	39.81	2.28	2520	-3.88	40.93	0.08
2020	-3.93	40.46	1.22	2540	-3.59	43.75	0.35
2040	-3.53	44.36	1.46	2560	-3.89	40.83	-0.12
2060	-3.45	45.19	1.52	2580	-4.12	38.73	-0.52
2080	-3.57	43.95	0.93	2600	-3.99	39.9	-0.66
2100	-3.63	43.35	0.29	2620	-4.65	34.28	-1.28
2120	-3.76	42.07	0.11	2640	-4.67	34.12	-0.14
2140	-3.88	40.93	0.12	2660	-4.48	35.65	0.86
2160	-3.89	40.83	0.21	2680	-4.71	33.81	0.89
2180	-3.89	40.83	0.14	2700	-4.89	32.43	0.78
2200	-4.51	35.4	-0.71				

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Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
2490	-6.84	20.7	2.33	2600	-6.81	20.84	1.64
2500	-6.77	21.04	2.43	2610	-6.45	22.65	1.36
2510	-6.72	21.28	2.46	2620	-6.07	24.72	1.16
2520	-6.53	22.23	2.47	2630	-6	25.12	0.91
2530	-6.43	22.75	2.44	2640	-6.11	24.49	0.91
2540	-6.61	21.83	2.41	2650	-6.17	24.15	0.79
2550	-6.71	21.33	2.25	2660	-6.1	24.55	0.72
2560	-6.84	20.7	2.09	2670	-5.8	26.3	0.71

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2570	-6.87	20.56	1.96	2680	-5.73	26.73	0.72
2580	-6.91	20.37	1.86	2690	-5.9	25.7	0.58
2590	-6.81	20.84	1.7	2700	-5.85	26	0.62
Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
3300	-5.25	29.85	2.39	3760	-7.95	16.03	-0.2
3320	-5.5	28.18	1.97	3780	-8.33	14.69	-0.69
3340	-5.19	30.27	2.25	3800	-8.12	15.42	-0.78
3360	-5.03	31.41	2.24	3820	-8.18	15.21	-1.14
3380	-5.16	30.48	1.76	3840	-7.77	16.71	-1.24
3400	-5.21	30.13	1.49	3860	-8.11	15.45	-2.05
3420	-5.4	28.84	1.22	3880	-8.64	13.68	-3.08
3440	-5.73	26.73	0.89	3900	-9.34	11.64	-4.32
3460	-5.93	25.53	0.71	3920	-9.55	11.09	-4.14
3480	-6.16	24.21	0.5	3940	-10.15	9.66	-4.41
3500	-6.23	23.82	0.57	3960	-10.99	7.96	-4.94
3520	-6.16	24.21	1.04	3980	-11.25	7.5	-4.99
3540	-6.69	21.43	0.31	4000	-11.57	6.97	-5.24
3560	-6.98	20.04	-0.44	4020	-11.31	7.4	-4.99
3580	-7.12	19.41	-0.39	4040	-11.03	7.89	-4.76
3600	-7.55	17.58	-0.67	4060	-10.56	8.79	-4.38
3620	-8.01	15.81	-0.95	4080	-10.24	9.46	-4.09
3640	-8.14	15.35	-1.25	4100	-9.67	10.79	-3.56
3660	-8.07	15.6	-1.1	4120	-9.13	12.22	-3.06
3680	-7.57	17.5	-0.56	4140	-8.77	13.27	-2.53
3700	-7.73	16.87	-0.53	4160	-8.39	14.49	-2.09
3720	-7.88	16.29	-0.88	4180	-8.26	14.93	-1.94
3740	-7.96	16	-1.07	4200	-8.54	14	-2.1

ANT6

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
1700	-5.37	29.04	0.33	2220	-3.97	40.09	2.05
1720	-5.04	31.33	0.94	2240	-3.92	40.55	2.19
1740	-5.06	31.19	1.24	2260	-4.51	35.4	1.12
1760	-5.65	27.23	0.53	2280	-3.74	42.27	1.69
1780	-5.33	29.31	0.07	2300	-3.64	43.25	1.58
1800	-4.86	32.66	-0.42	2320	-4.02	39.63	0.88
1820	-4.85	32.73	-0.95	2340	-3.99	39.9	1.68
1840	-4.24	37.67	0.19	2360	-4.32	36.98	1.69
1860	-3.94	40.36	0.49	2380	-4.54	35.16	1.94
1880	-3.7	42.66	1.11	2400	-4.42	36.14	2.46
1900	-3.66	43.05	1.67	2420	-4.59	34.75	2.09
1920	-3.64	43.25	1.77	2440	-4.56	34.99	1.78

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1940	-3.65	43.15	1.63	2460	-4.64	34.36	1.64
1960	-3.55	44.16	1.57	2480	-4.87	32.58	1.57
1980	-3.69	42.76	1.64	2500	-4.63	34.43	1.98
2000	-3.19	47.97	2.57	2520	-4.77	33.34	1.62
2020	-2.93	50.93	2.62	2540	-4.99	31.7	0.82
2040	-3.08	49.2	2.4	2560	-5.3	29.51	0.24
2060	-3.02	49.89	2.48	2580	-5.45	28.51	-0.03
2080	-3.73	42.36	1.67	2600	-5.38	28.97	-0.12
2100	-4.16	38.37	1.21	2620	-5.15	30.55	0.41
2120	-4.07	39.17	1.16	2640	-5.33	29.31	0.49
2140	-4.34	36.81	1.42	2660	-5.74	26.67	0.34
2160	-4.01	39.72	2.01	2680	-6.43	22.75	0.1
2180	-3.29	46.88	2.68	2700	-7.55	17.58	-0.76
2200	-3.69	42.76	1.98				

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
3300	-10.15	9.66	-3.53	3760	-6.41	22.86	0.09
3320	-9.94	10.14	-3.17	3780	-6.56	22.08	0.84
3340	-9.7	10.72	-2.86	3800	-6.47	22.54	0.89
3360	-9.01	12.56	-2.2	3820	-6.51	22.34	0.95
3380	-8.88	12.94	-2.11	3840	-6.35	23.17	0.35
3400	-8.61	13.77	-1.82	3860	-6.95	20.18	0.56
3420	-8.27	14.89	-1.44	3880	-6.87	20.56	0.69
3440	-7.58	17.46	-0.57	3900	-7.03	19.82	0.57
3460	-6.75	21.13	0.68	3920	-7.63	17.26	-0.06
3480	-6.29	23.5	0.8	3940	-8.16	15.28	-0.5
3500	-6.39	22.96	0.72	3960	-8.09	15.52	-0.35
3520	-6.6	21.88	0.64	3980	-7.82	16.52	-0.09
3540	-6.26	23.66	0.75	4000	-7.83	16.48	-0.16
3560	-6.27	23.6	0.56	4020	-7.79	16.63	-0.29
3580	-6.64	21.68	-0.06	4040	-8.22	15.07	-0.93
3600	-6.31	23.39	-0.14	4060	-8.27	14.89	-0.99
3620	-6.15	24.27	-0.29	4080	-8.49	14.16	-1.37
3640	-6.08	24.66	-0.25	4100	-8.83	13.09	-2.01
3660	-5.97	25.29	-0.3	4120	-8.58	13.87	-1.87
3680	-6.15	24.27	-0.31	4140	-8.32	14.72	-1.39
3700	-6.46	22.59	-0.99	4160	-7.84	16.44	-0.73
3720	-5.93	25.53	-0.6	4180	-7.89	16.26	-0.51
3740	-5.98	25.23	-0.73	4200	-8.31	14.76	-0.71

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Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
3300	-7.41	18.16	-1.8	3760	-5.66	27.16	-0.94
3320	-7.13	19.36	-1.41	3780	-5.73	26.73	-0.63
3340	-7.01	19.91	-1.27	3800	-5.27	29.72	0.26
3360	-6.76	21.09	-0.94	3820	-4.93	32.14	0.96
3380	-6.77	21.04	-0.89	3840	-4.39	36.39	1.67
3400	-6.7	21.38	-0.86	3860	-4.66	34.2	1.64
3420	-6.76	21.09	-0.93	3880	-4.55	35.08	1.86
3440	-6.48	22.49	-0.47	3900	-4.6	34.67	2.02
3460	-6.24	23.77	-0.12	3920	-4.72	33.73	2.04
3480	-5.87	25.88	0.18	3940	-4.94	32.06	1.82
3500	-5.91	25.64	0.03	3960	-4.92	32.21	1.71
3520	-6.03	24.95	-0.15	3980	-4.52	35.32	2.1
3540	-5.52	28.05	0.18	4000	-4.53	35.24	2.08
3560	-5.15	30.55	0.2	4020	-4.26	37.5	2.44
3580	-5.21	30.13	-0.07	4040	-4.45	35.89	2.34
3600	-5.02	31.48	0.55	4060	-4.41	36.22	2.37
3620	-5.22	30.06	-0.19	4080	-4.53	35.24	2.3
3640	-5.35	29.17	-0.41	4100	-4.53	35.24	2.4
3660	-5.33	29.31	-0.36	4120	-4.49	35.56	2.54
3680	-5.3	29.51	-0.42	4140	-4.54	35.16	2.71
3700	-5.73	26.73	-1.06	4160	-4.57	34.91	2.74
3720	-5.26	29.79	-0.76	4180	-4.64	34.36	2.64
3740	-5.25	29.85	-0.92	4200	-4.67	34.12	2.65

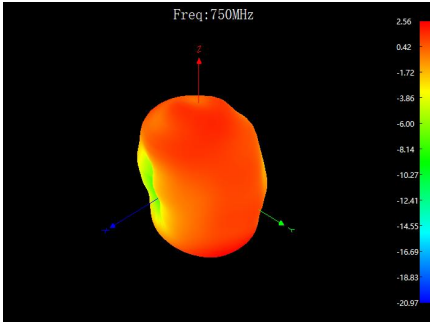
ANT8

Freq (MHz)	Effi (dB)	Effi (%)	Gain (dBi)
1160	-5.39	28.91	0.08
1162	-5.04	31.33	0.16
1164	-4.82	32.96	0.2
1166	-4.82	32.96	0.23
1168	-4.83	32.89	0.22
1170	-4.75	33.5	0.19
1172	-4.59	34.75	0.15
1174	-4.57	34.91	0.1
1176	-4.59	34.75	0.03
1178	-4.53	35.24	-0.07
1180	-4.44	35.97	-0.19
1182	-4.41	36.22	-0.22
1184	-4.53	35.24	-0.32
1186	-4.6	34.67	-0.35
1188	-4.52	35.32	-0.33
1190	-4.36	36.64	-0.3

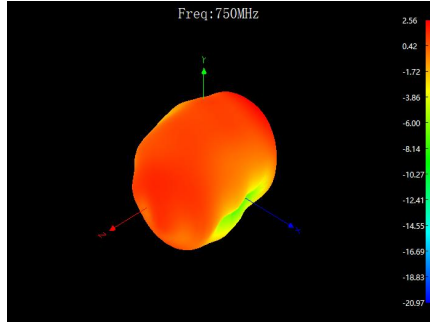
2.2 3D Pattern

ANT0

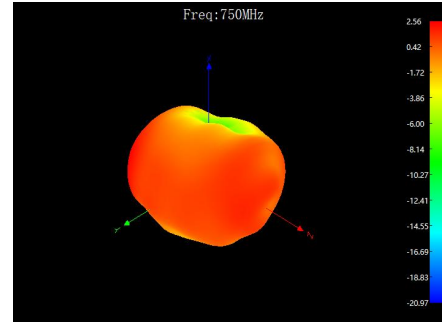
H plane



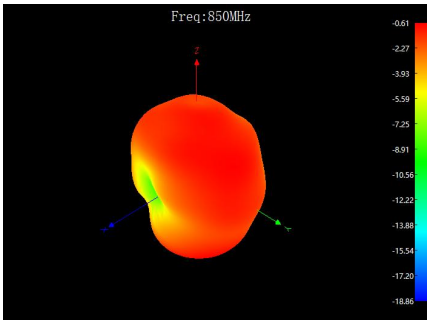
E1 plane



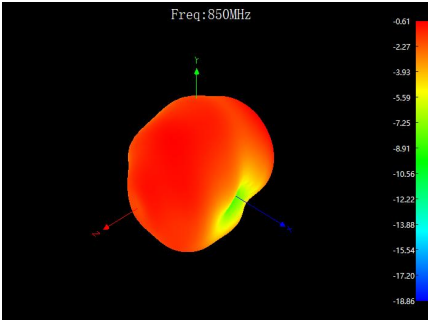
E2 plan



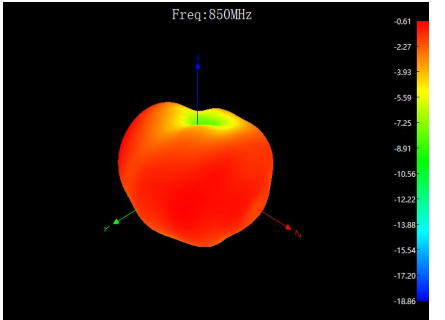
H plane



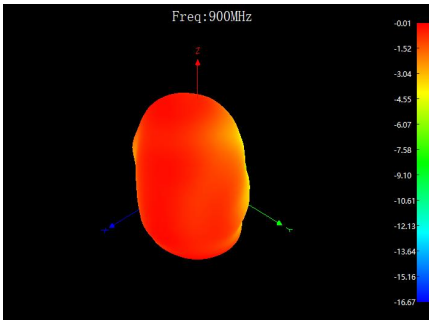
E1 plane



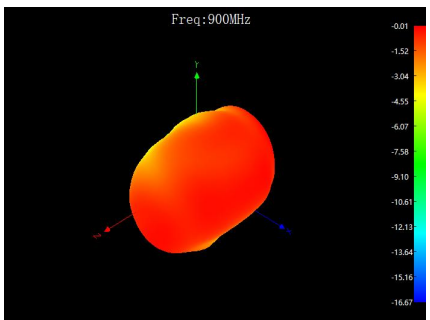
E2 plan



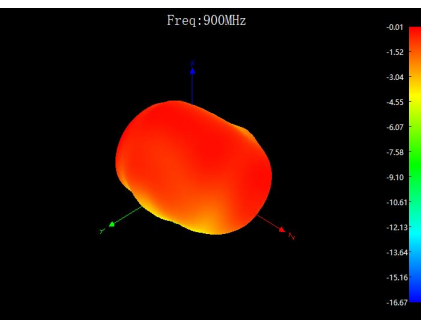
H plane



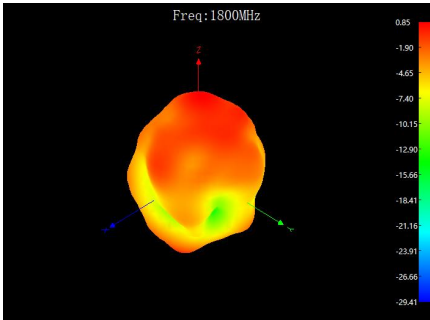
E1 plane



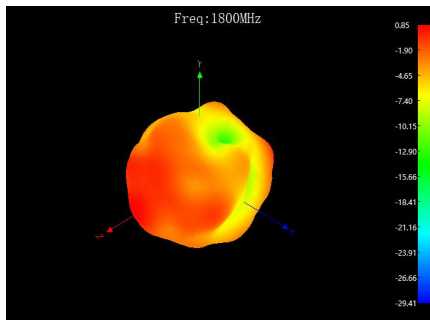
E2 plan



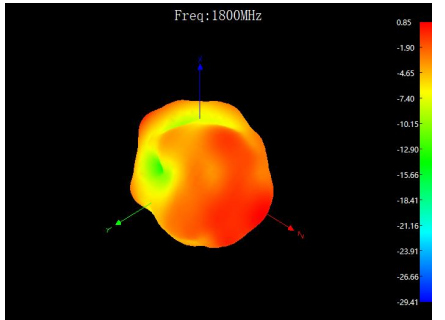
H plane



E1 plane



E2 plan

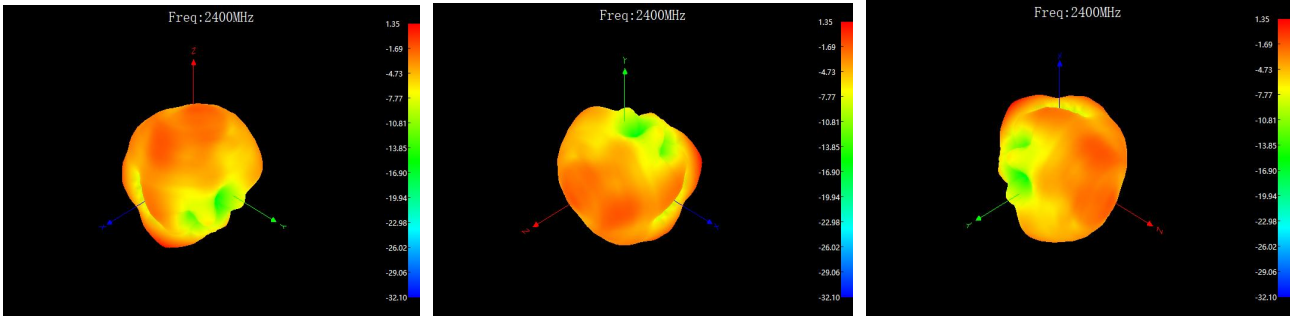


H plane

E1 plane

E2 plane

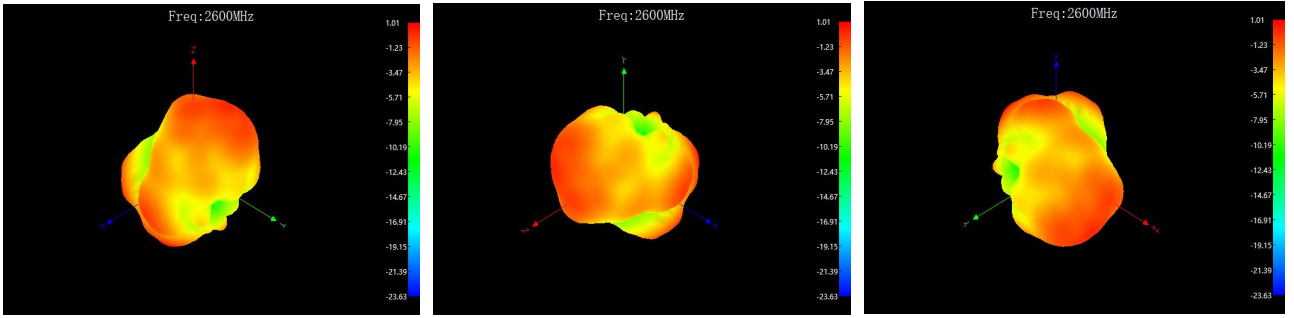
Confidential Information



H plane

E1 plane

E2 plane

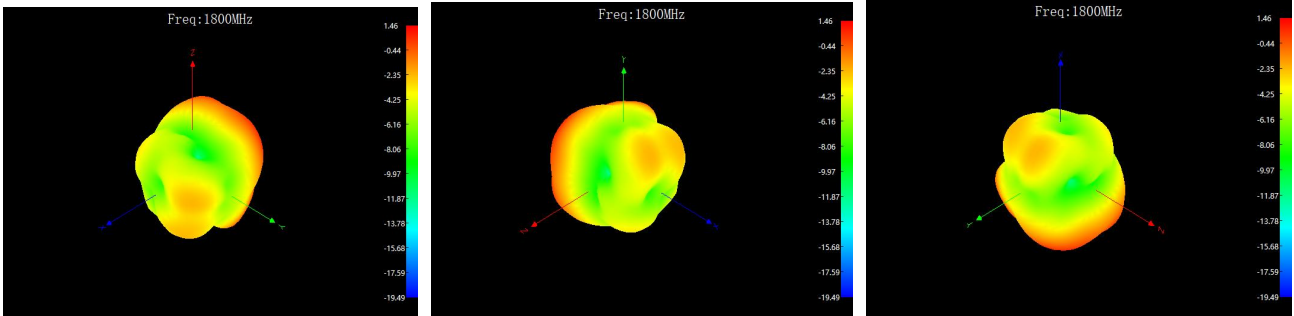


ANT1

H plane

E1 plane

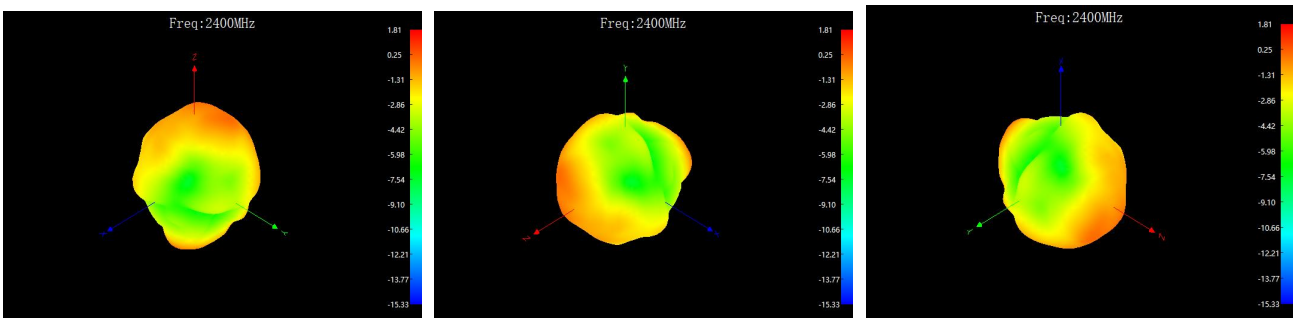
E2 plane



H plane

E1 plane

E2 plane

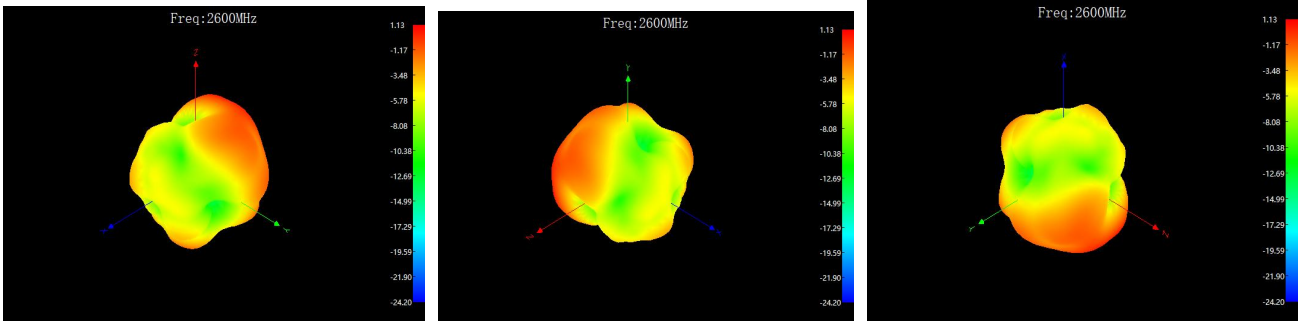


H plane

E1 plane

E2 plane

Confidential Information

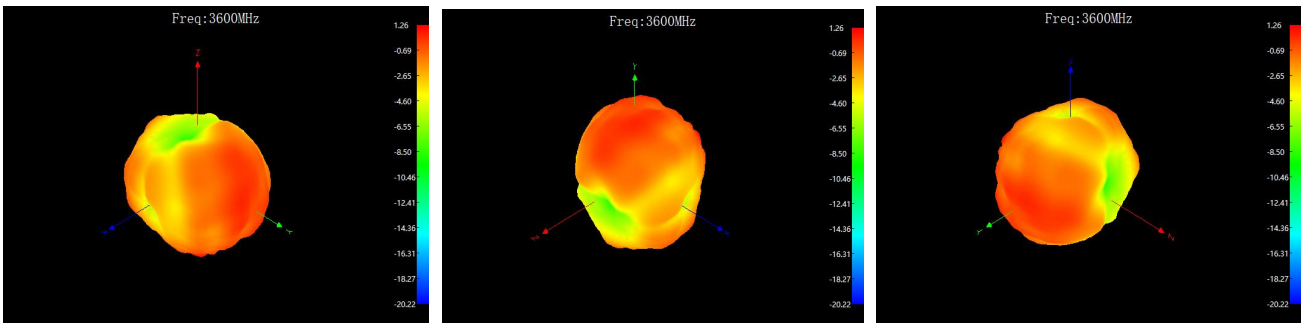


ANT2

H plane

E1 plane

E2 plane

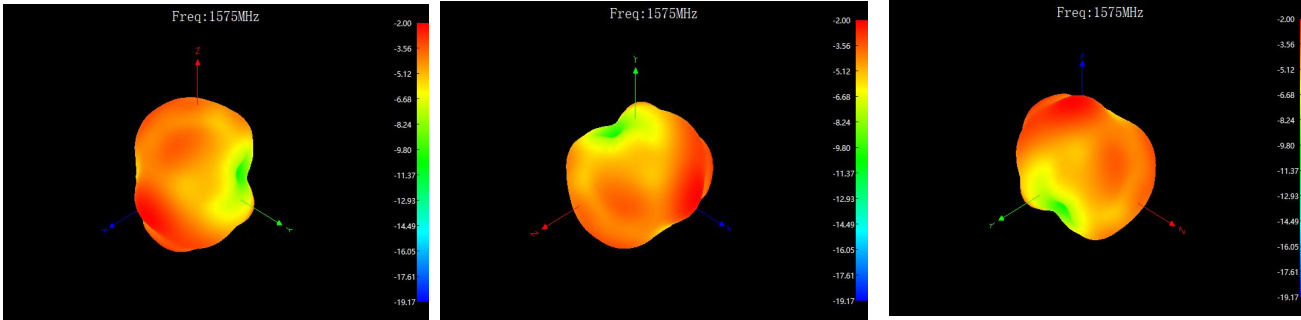


ANT3

H plane

E1 plane

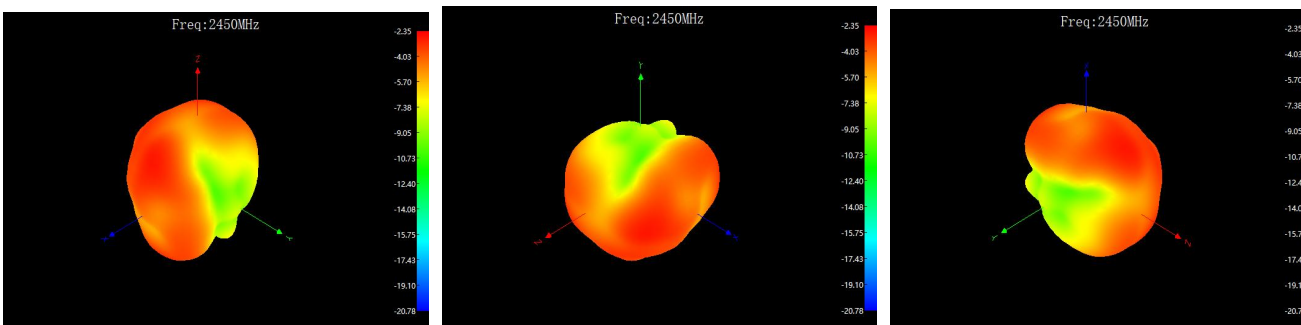
E2 plane



H plane

E1 plane

E2 plane

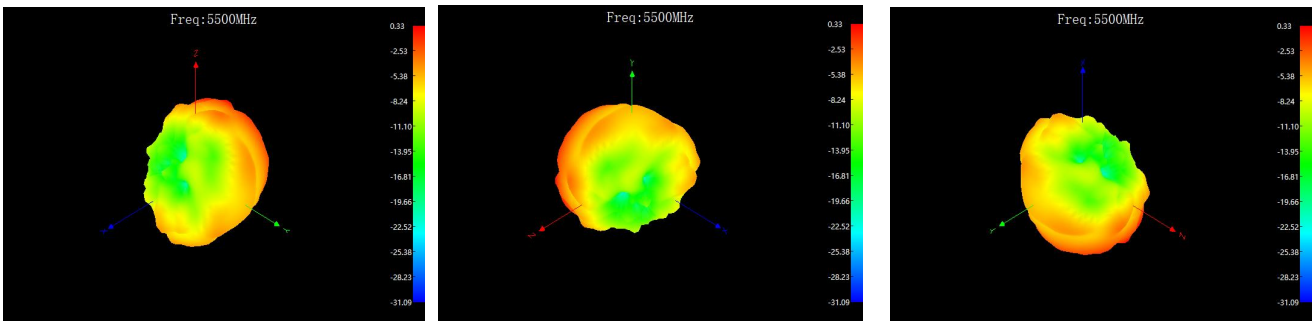


H plane

E1 plane

E2 plane

Confidential Information

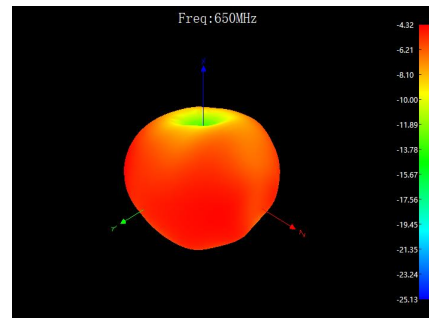
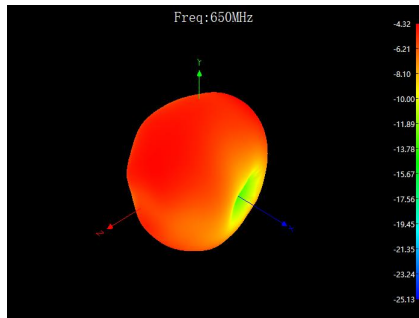
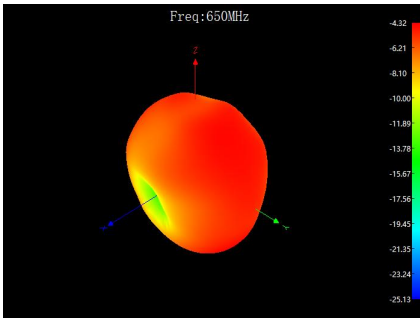


ANT4

H plane

E1 plane

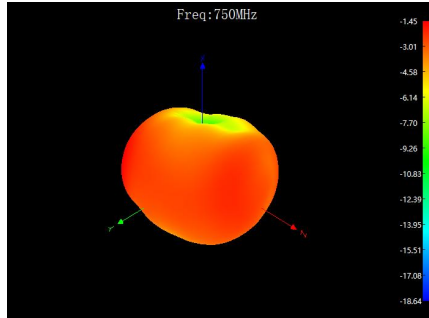
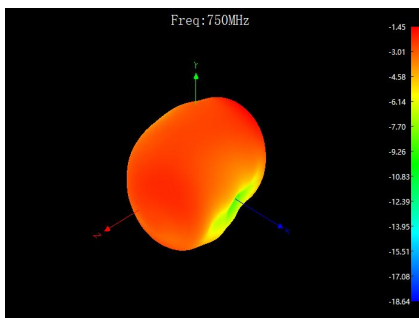
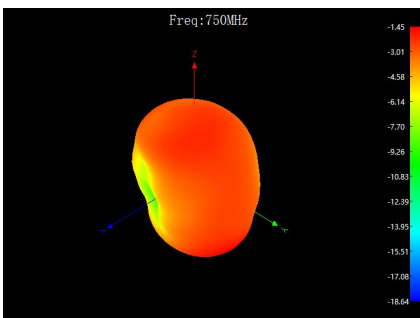
E2 plane



H plane

E1 plane

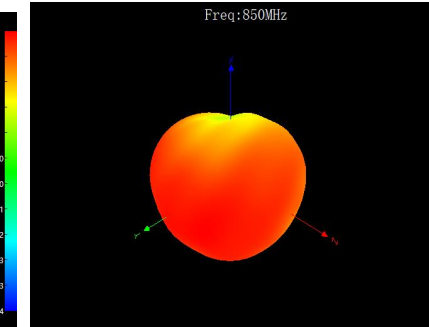
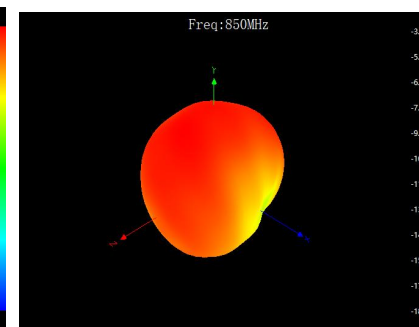
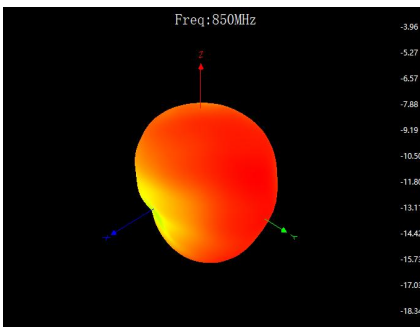
E2 plane



H plane

E1 plane

E2 plane

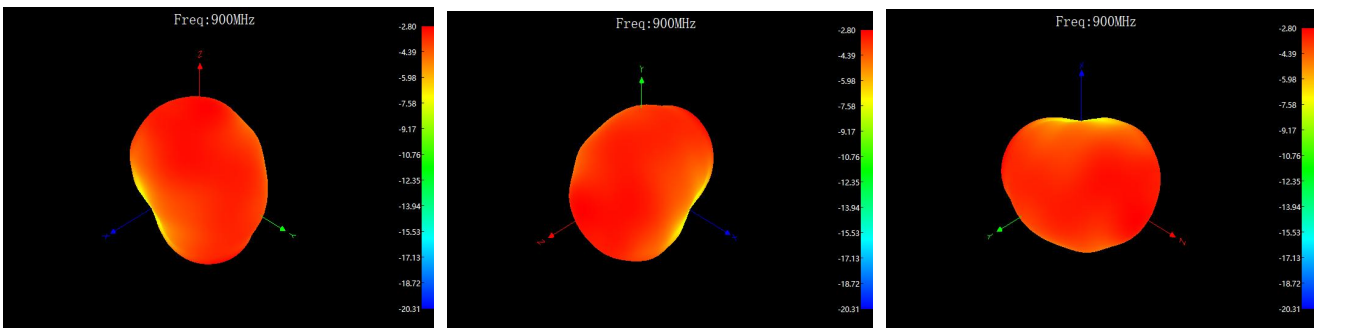


H plane

E1 plane

E2 plane

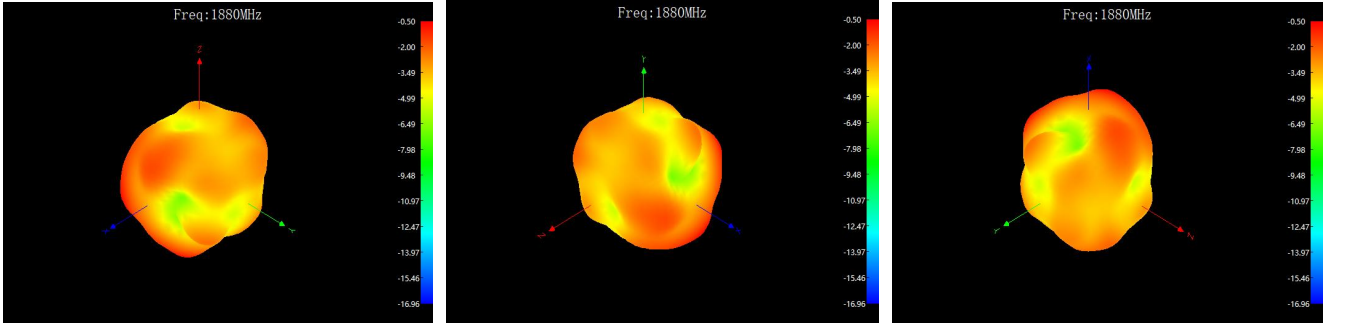
Confidential Information



H plane

E1 plane

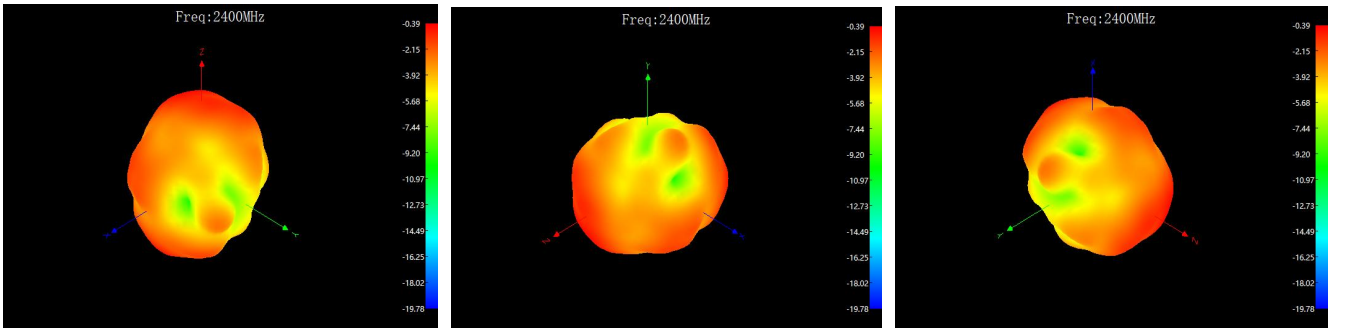
E2 plane



H plane

E1 plane

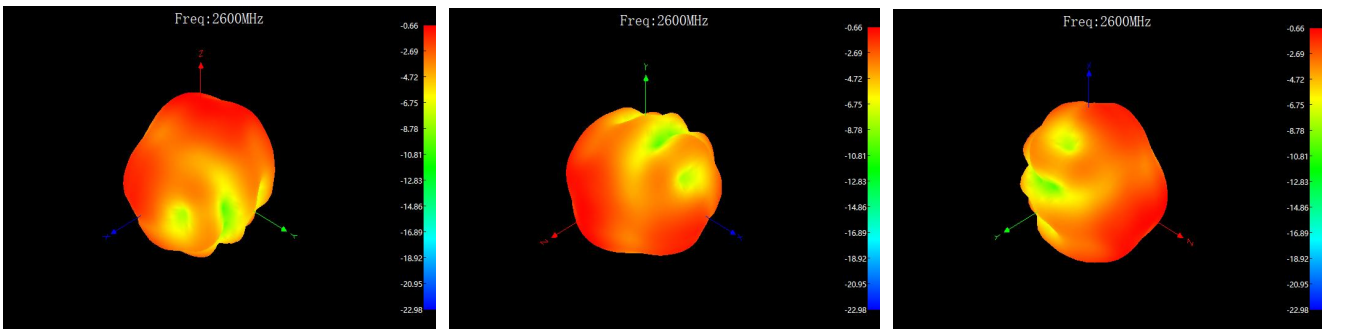
E2 plane



H plane

E1 plane

E2 plane

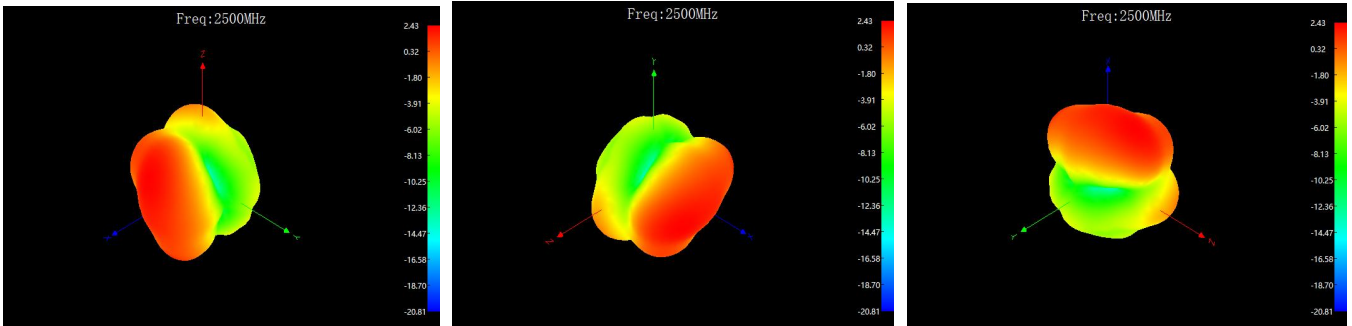


ANT5

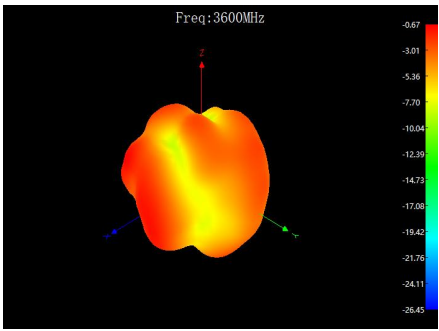
H plane

E1 plane

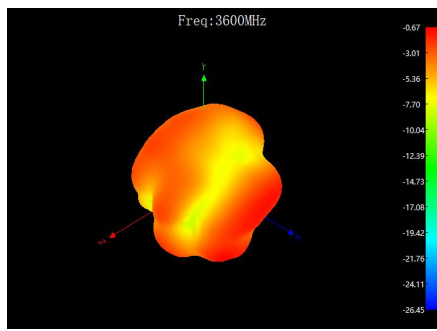
E2 plane



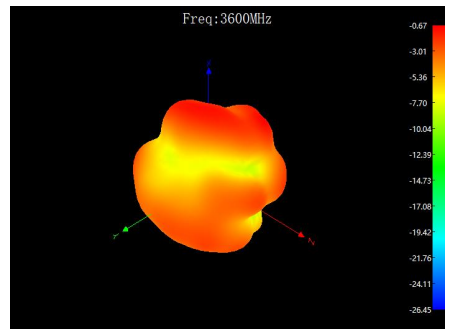
H plane



E1 plane

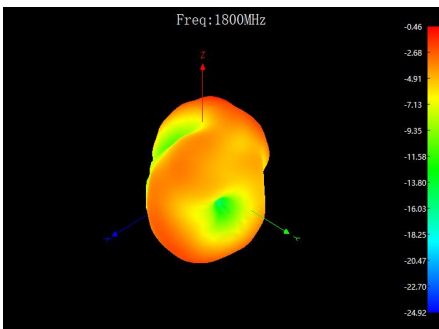


E2 plane

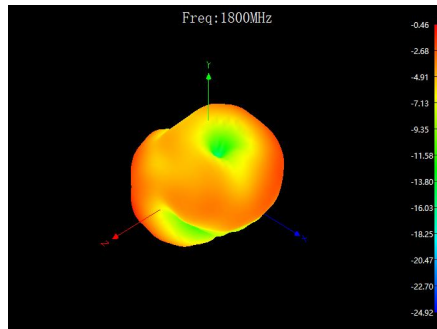


ANT6

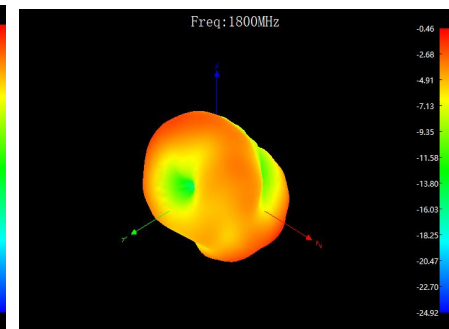
H plane



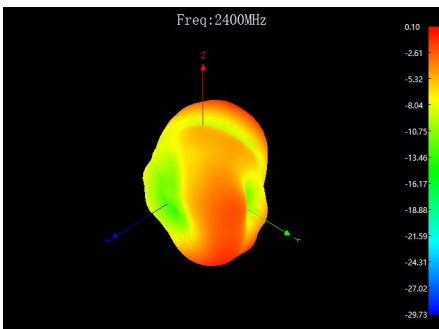
E1 plane



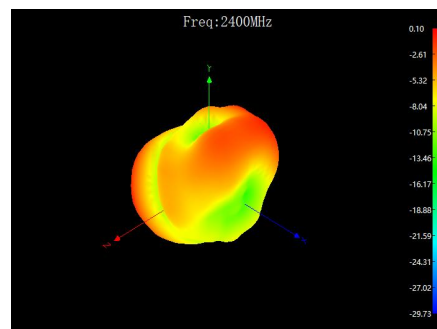
E2 plane



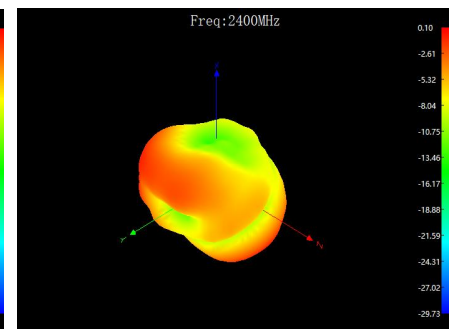
H plane



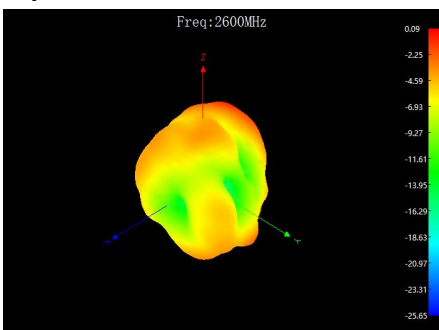
E1 plane



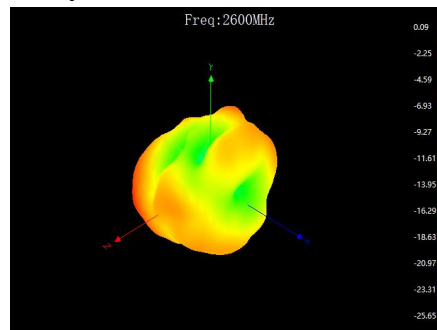
E2 plane



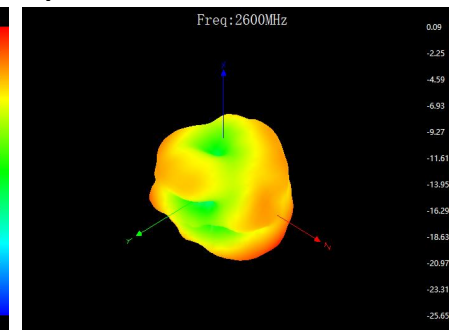
H plane



E1 plane



E2 plane

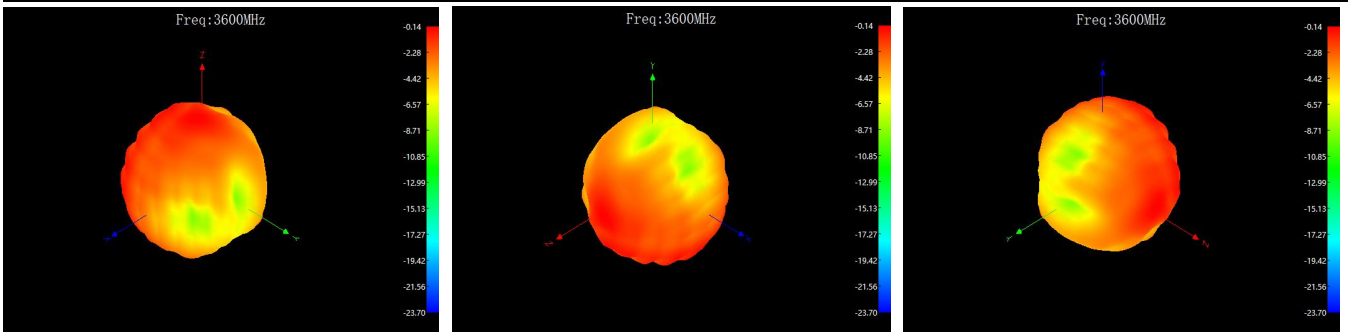


H plane

E1 plane

E2 plane

Confidential Information

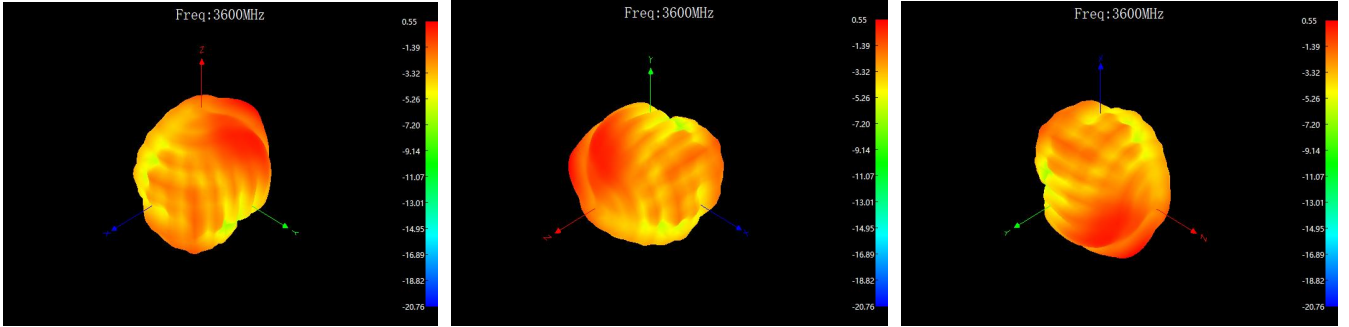


ANT7

H plane

E1 plane

E2 plane



ANT8

H plane

E1 plane

E2 plane

