

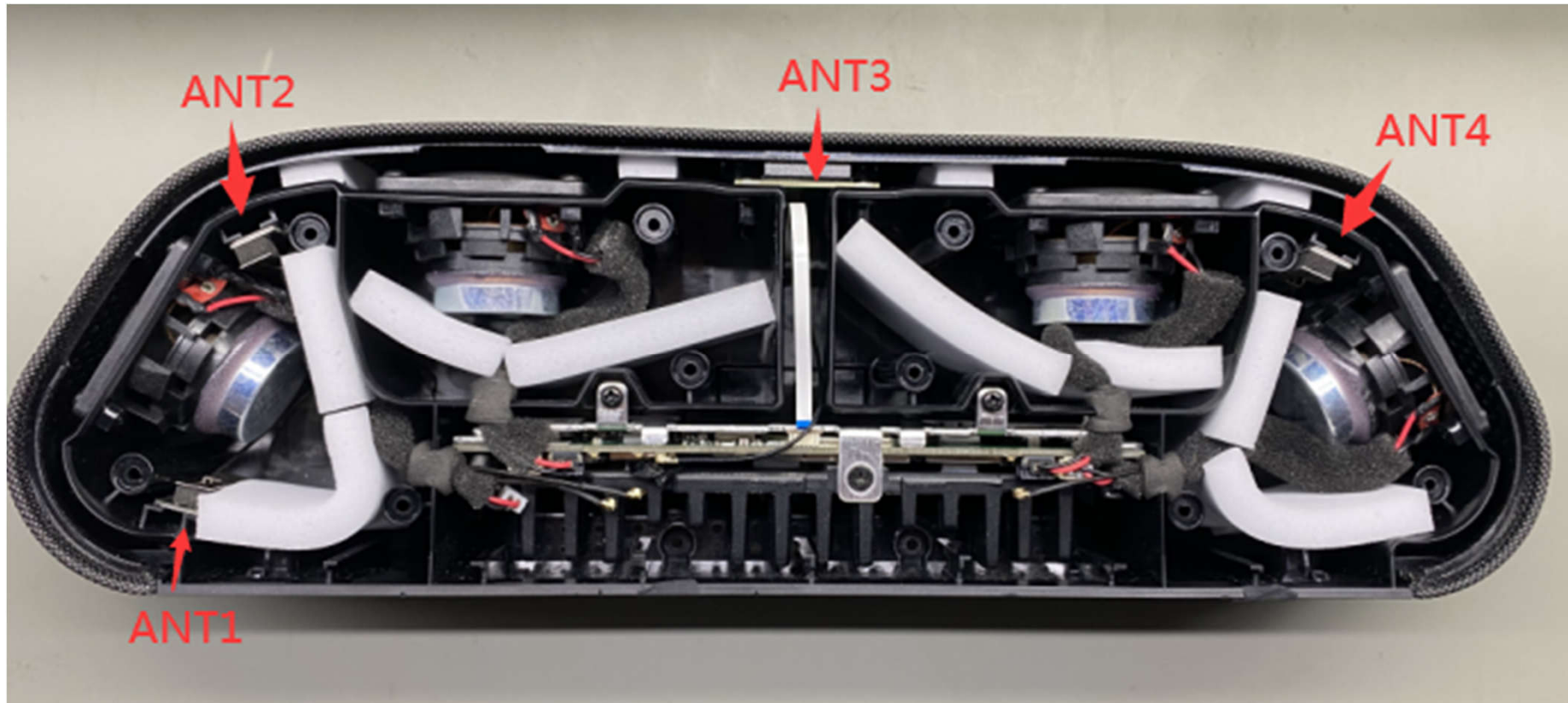
WC0D-15 Project Antenna Test Report

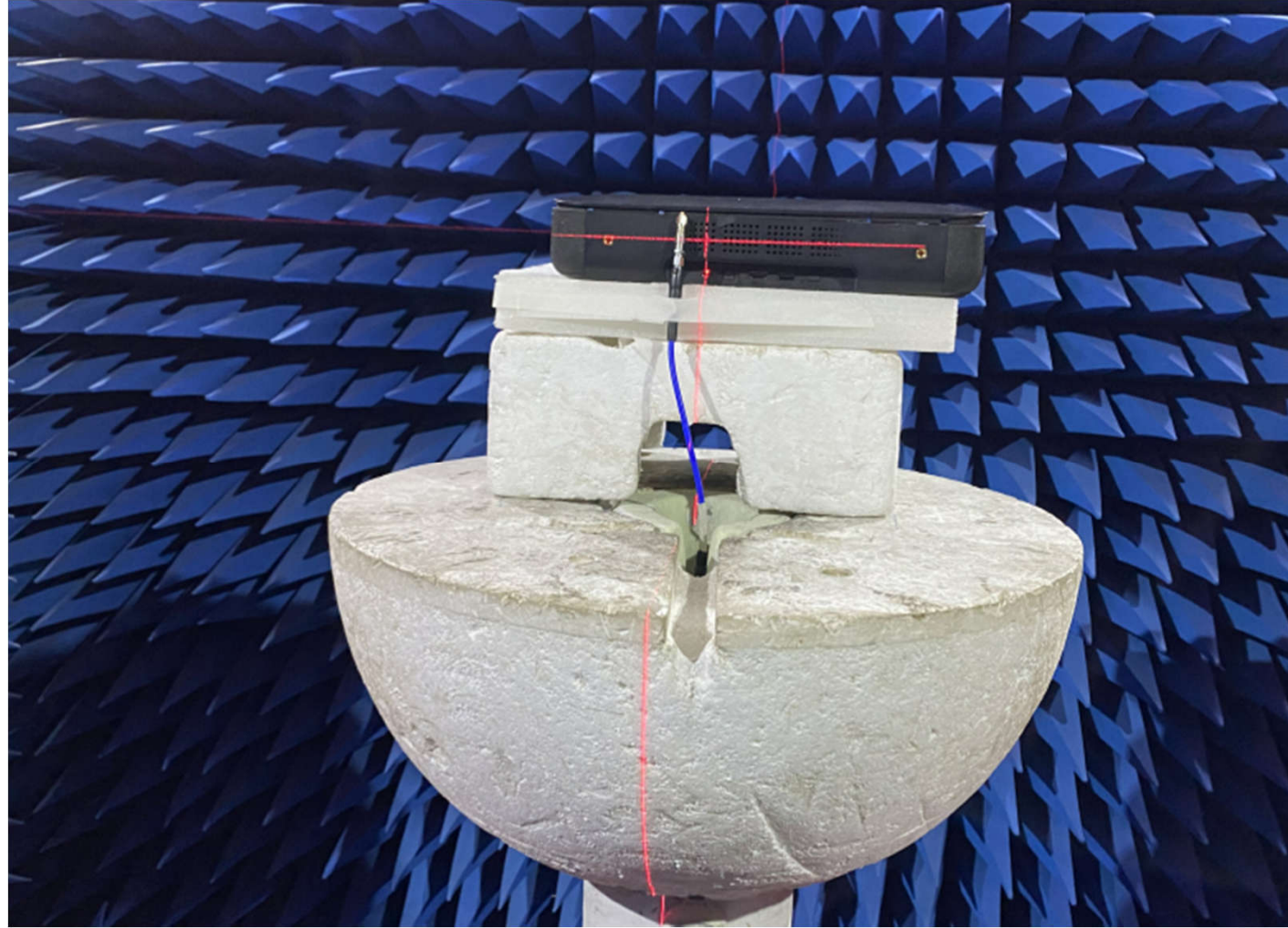
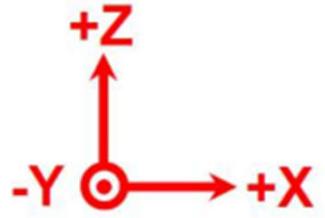


- Antenna Position
- Test Environment
- Antenna Passive Test Data

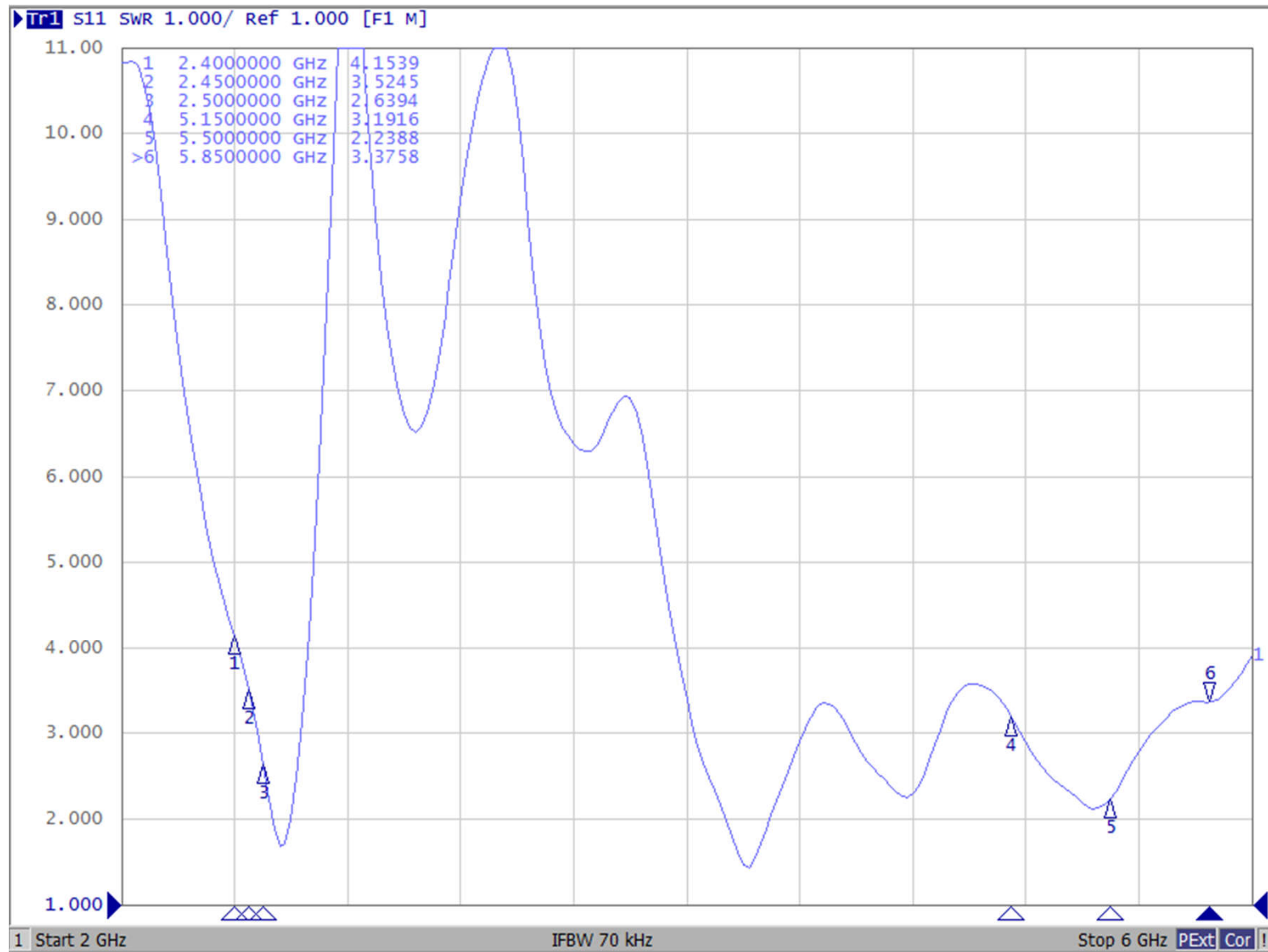


Antenna Position

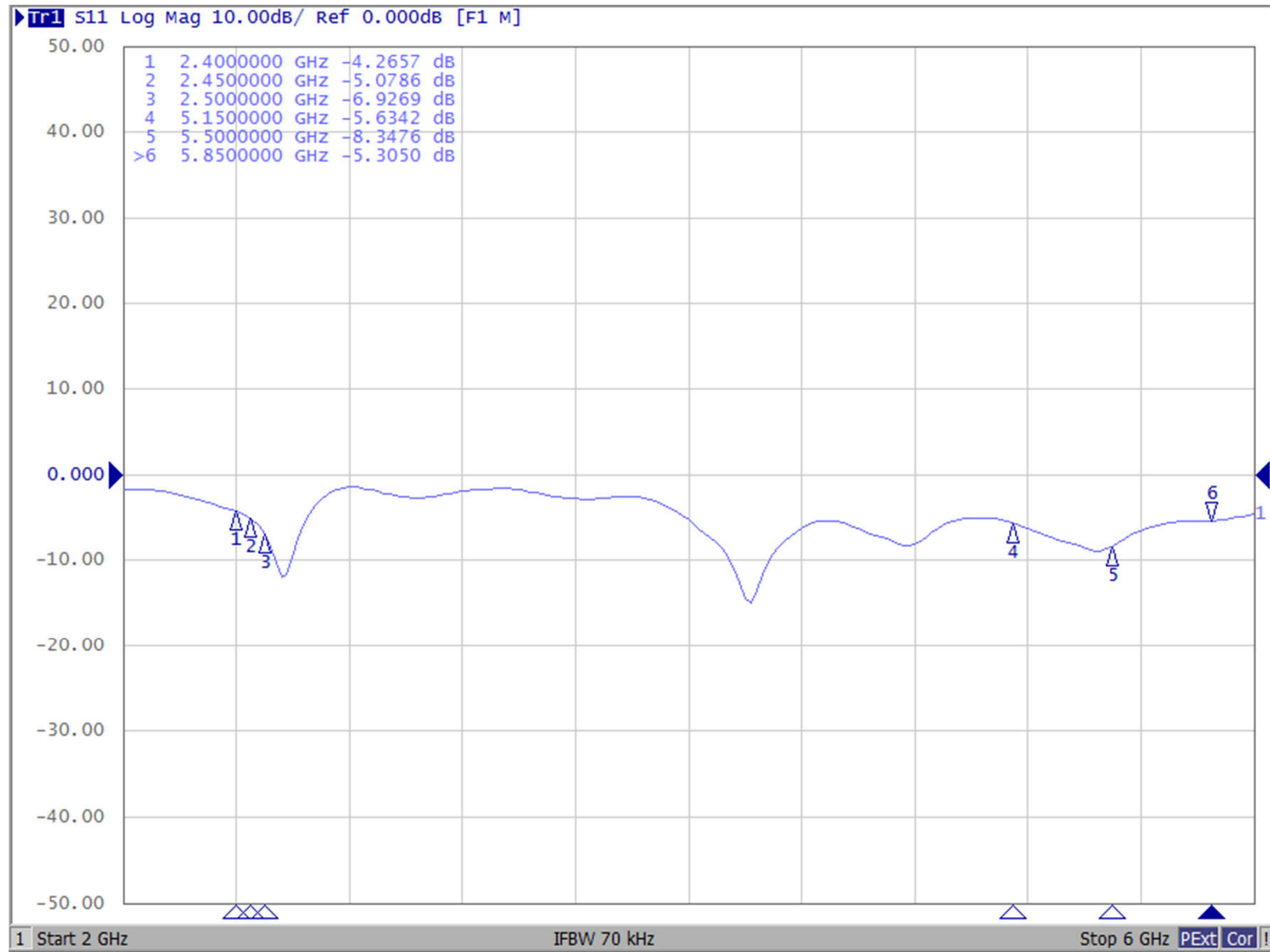




Passive data (ANT1-SWR)



Passive data (ANT1-RL)



Passive data (ANT1-Efficiency&Peak Gain)



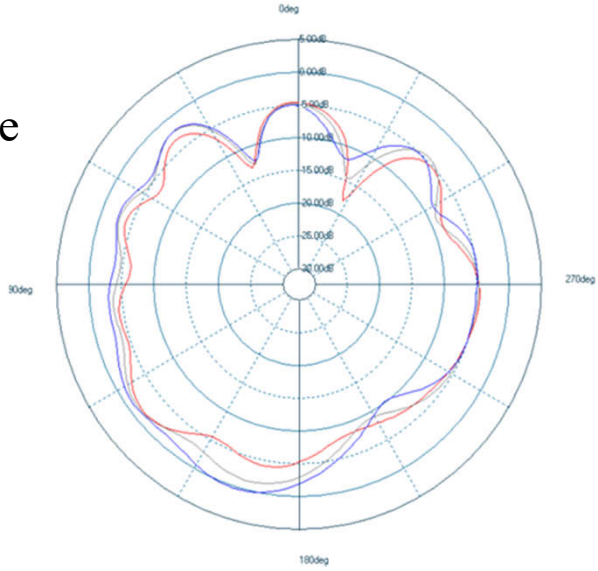
Frequency	Efficiency		Peak Gain
	Mhz	%	
2400	27.90	-5.54	-0.06
2410	27.74	-5.57	-0.30
2420	30.78	-5.12	-0.04
2430	32.11	-4.93	0.01
2440	33.45	-4.76	0.17
2450	33.81	-4.71	0.23
2460	35.27	-4.53	0.67
2470	37.14	-4.30	0.92
2480	37.99	-4.20	1.03
2490	38.83	-4.11	1.22
2500	39.45	-4.04	1.24

Frequency	Efficiency		Peak Gain
	Mhz	%	
5150	38.23	-4.18	0.82
5200	36.76	-4.35	0.61
5250	36.71	-4.35	0.83
5300	41.14	-3.86	1.53
5350	45.21	-3.45	1.91
5400	43.41	-3.62	1.82
5450	43.08	-3.66	1.65
5500	39.35	-4.05	1.57
5550	37.09	-4.31	1.48
5600	34.12	-4.67	1.32
5650	32.04	-4.94	1.20
5700	29.52	-5.30	1.26
5750	28.54	-5.45	1.36
5800	26.25	-5.81	0.36
5850	25.90	-5.87	0.10

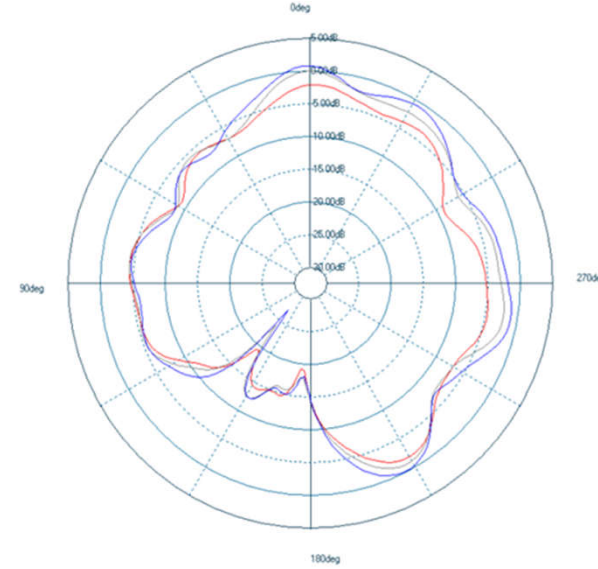
Passive data(ANT1-2.4G Directional Diagram)



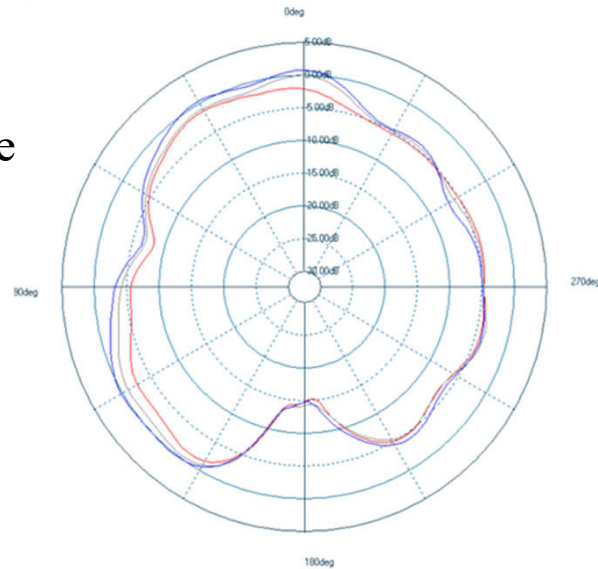
XOY Side



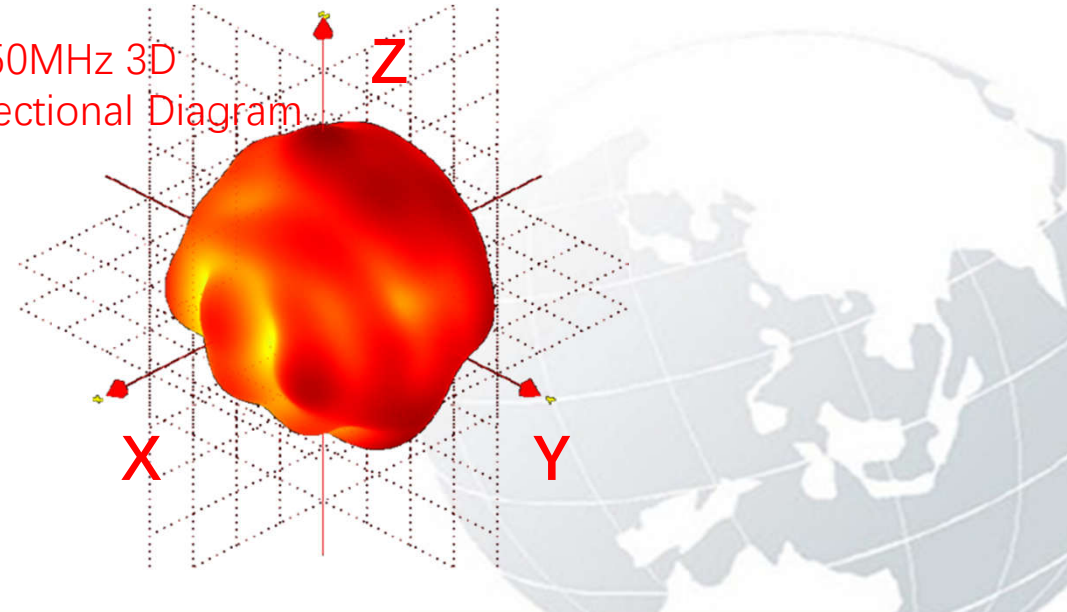
XOZ Side



YOZ Side



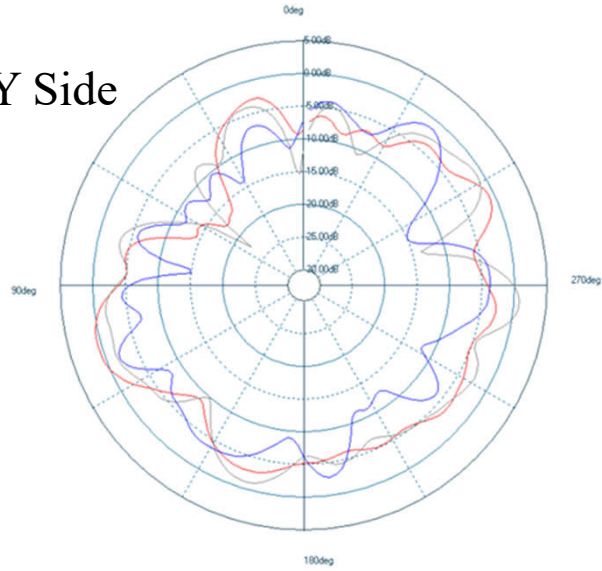
2450MHz 3D Directional Diagram



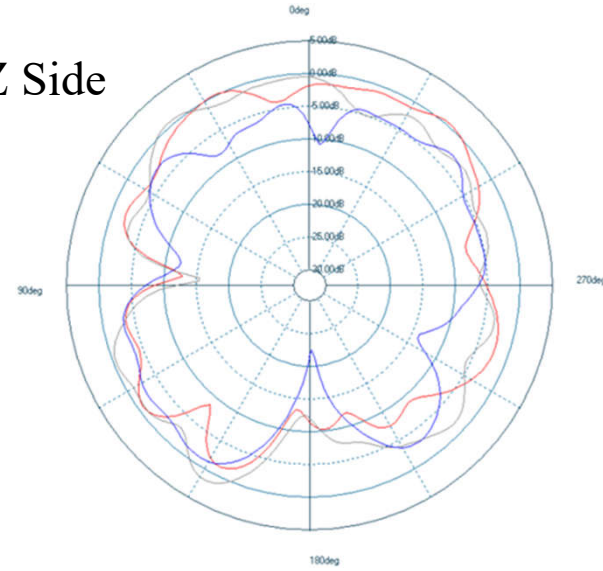
Passive data(ANT1-5G Directional Diagram)



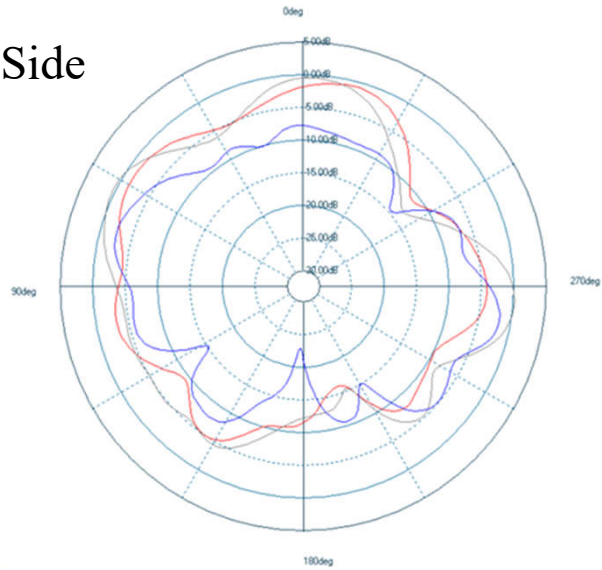
XOY Side



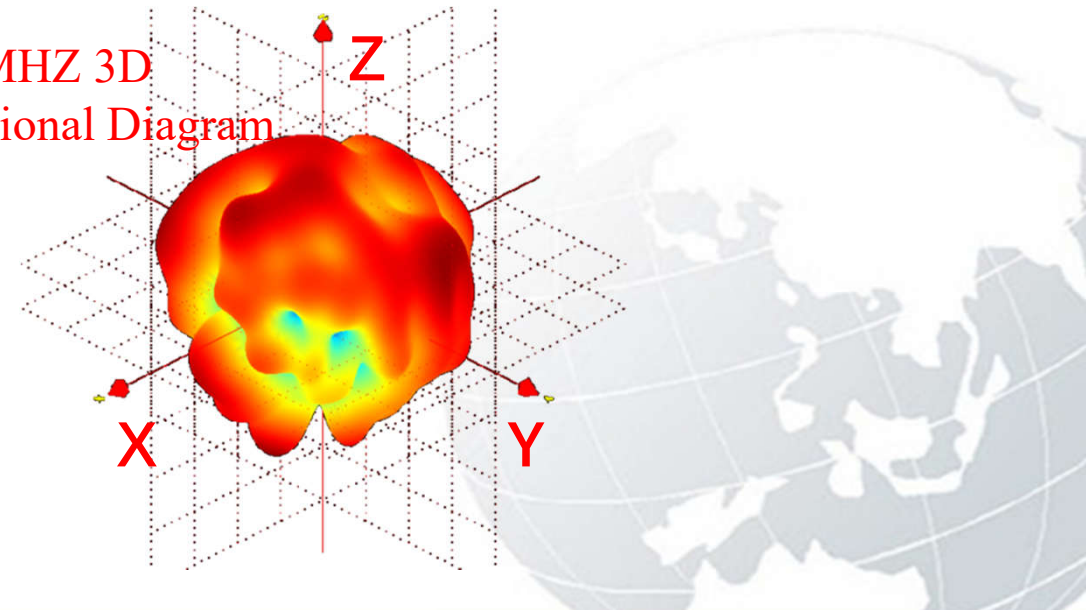
XOZ Side



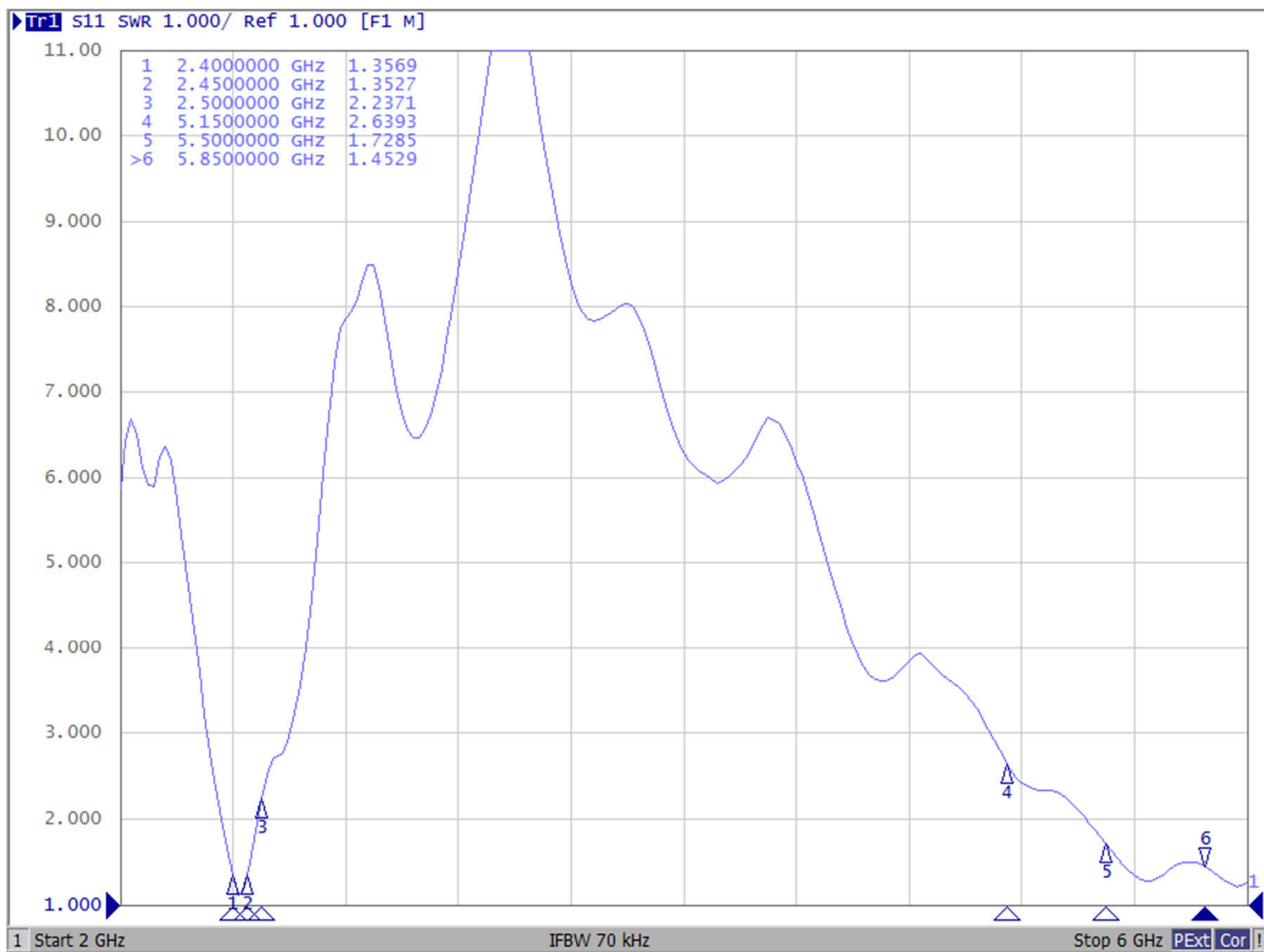
YOZ Side



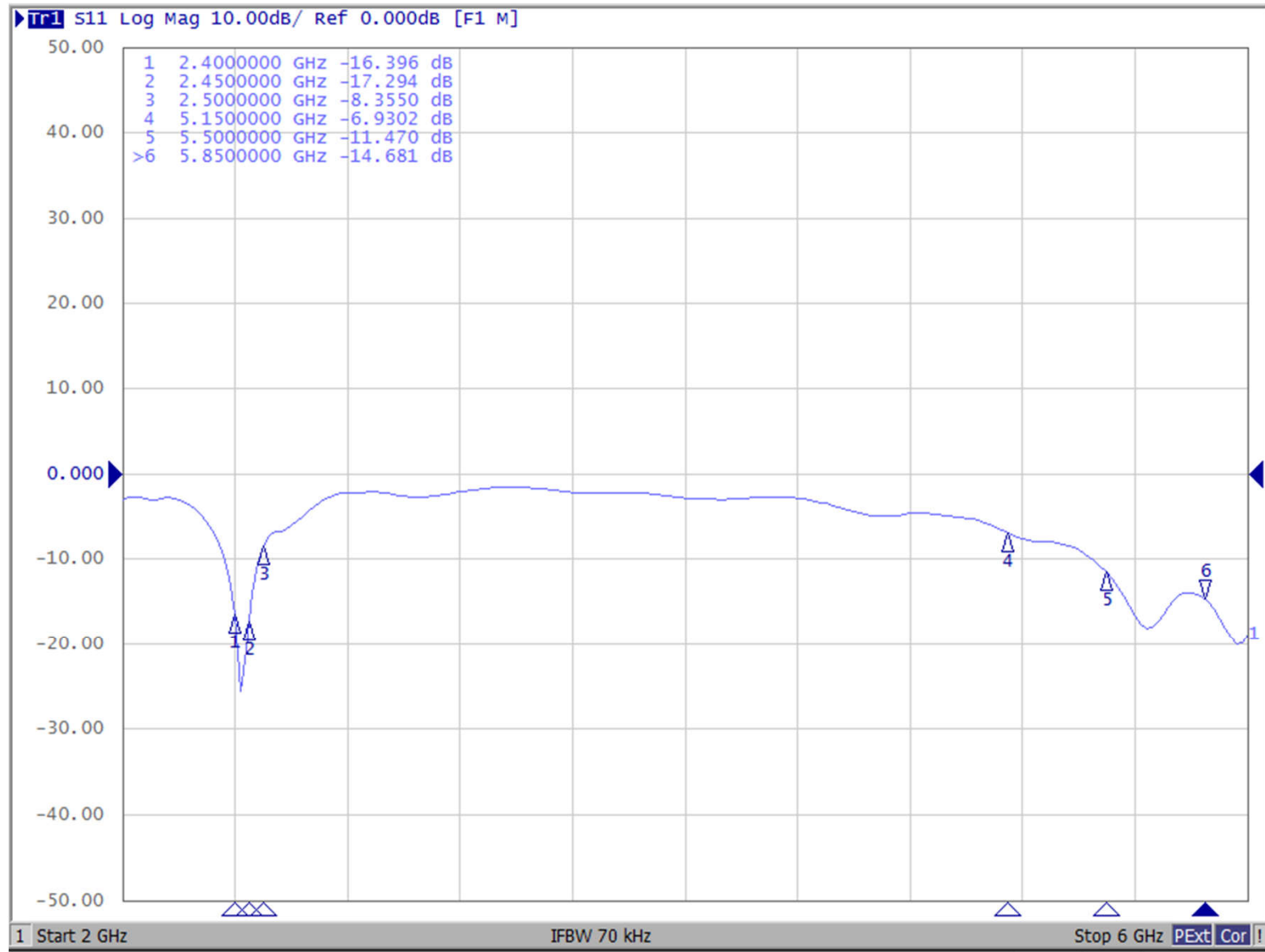
5500MHZ 3D
Directional Diagram



Passive data (ANT2-SWR)



Passive data (ANT2-RL)



Passive data (ANT2-Efficiency&Peak Gain)



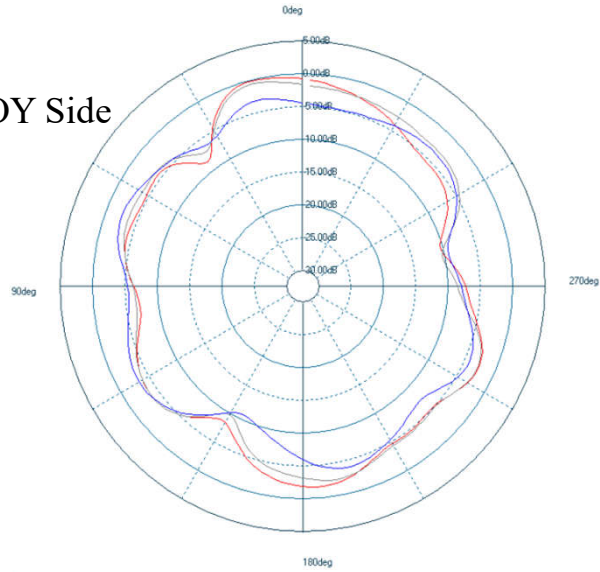
Frequency	Efficiency		Peak Gain
	Mhz	%	
2400	54.36	-2.65	4.44
2410	52.53	-2.80	3.85
2420	51.71	-2.86	3.68
2430	53.93	-2.68	3.77
2440	50.28	-2.99	3.40
2450	49.99	-3.01	3.32
2460	45.07	-3.46	2.74
2470	43.90	-3.58	2.25
2480	42.32	-3.73	2.04
2490	41.57	-3.81	1.34
2500	40.49	-3.93	0.93

Frequency	Efficiency		Peak Gain
	Mhz	%	
5150	29.05	-5.37	1.02
5200	31.13	-5.07	1.54
5250	32.13	-4.93	1.78
5300	34.74	-4.59	1.71
5350	40.17	-3.96	2.31
5400	42.58	-3.71	2.93
5450	47.32	-3.25	3.46
5500	47.16	-3.26	3.54
5550	47.74	-3.21	3.58
5600	47.12	-3.27	3.35
5650	47.06	-3.27	3.14
5700	45.67	-3.40	3.04
5750	48.35	-3.16	3.16
5800	48.55	-3.14	3.30
5850	51.61	-2.87	3.48

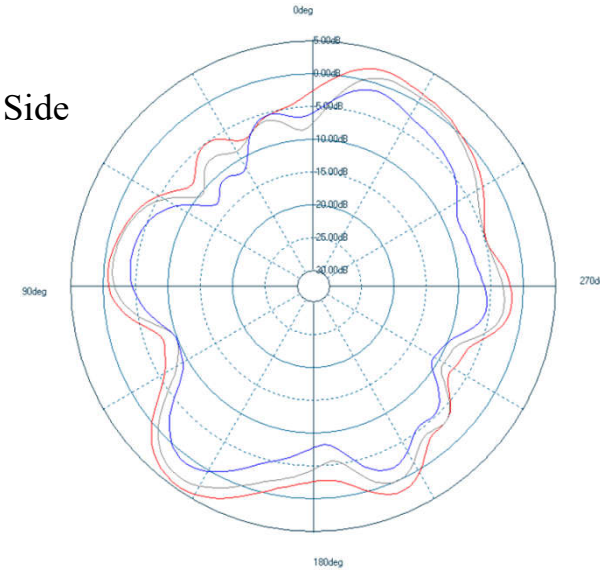
Passive data(ANT2-2.4G Directional Diagram)



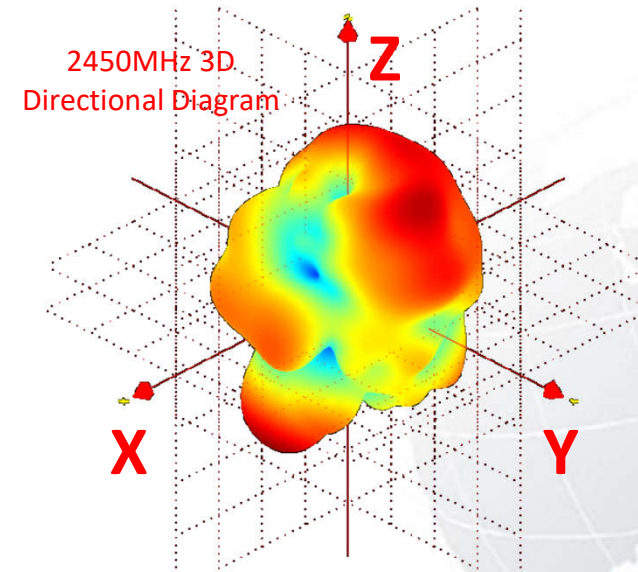
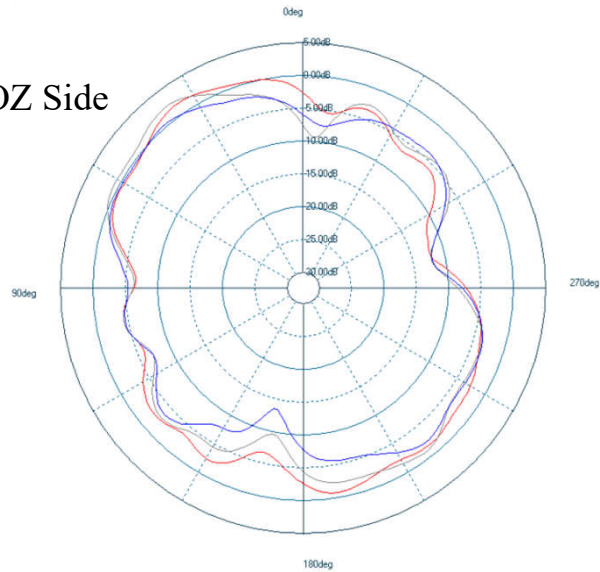
XOY Side



XOZ Side

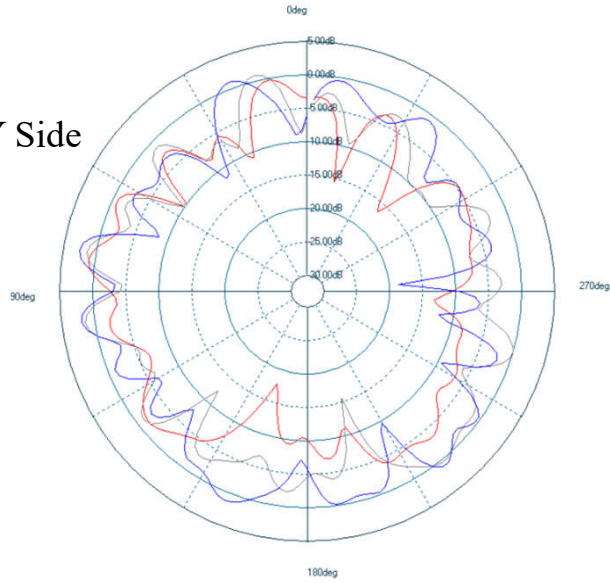


YOZ Side

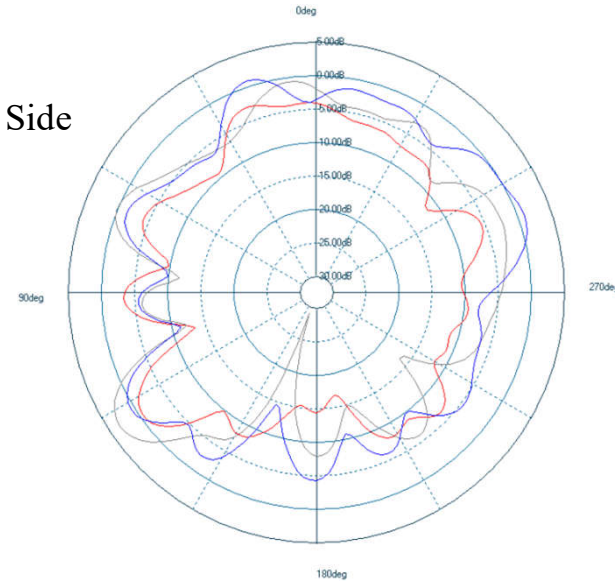


Passive data(ANT2-5G Directional Diagram)

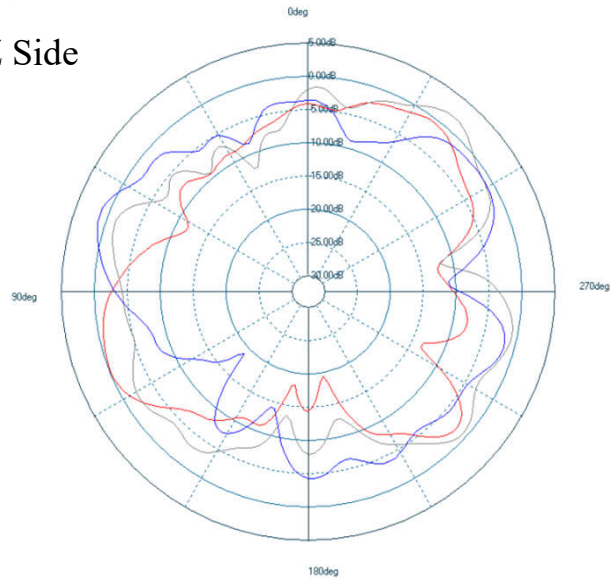
XOY Side



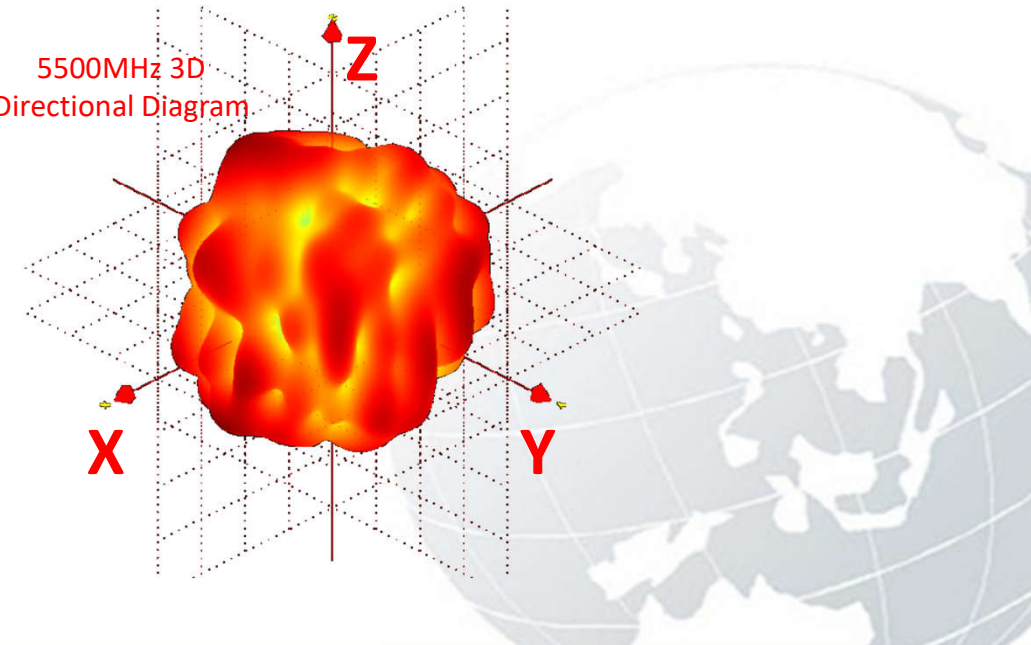
XOZ Side



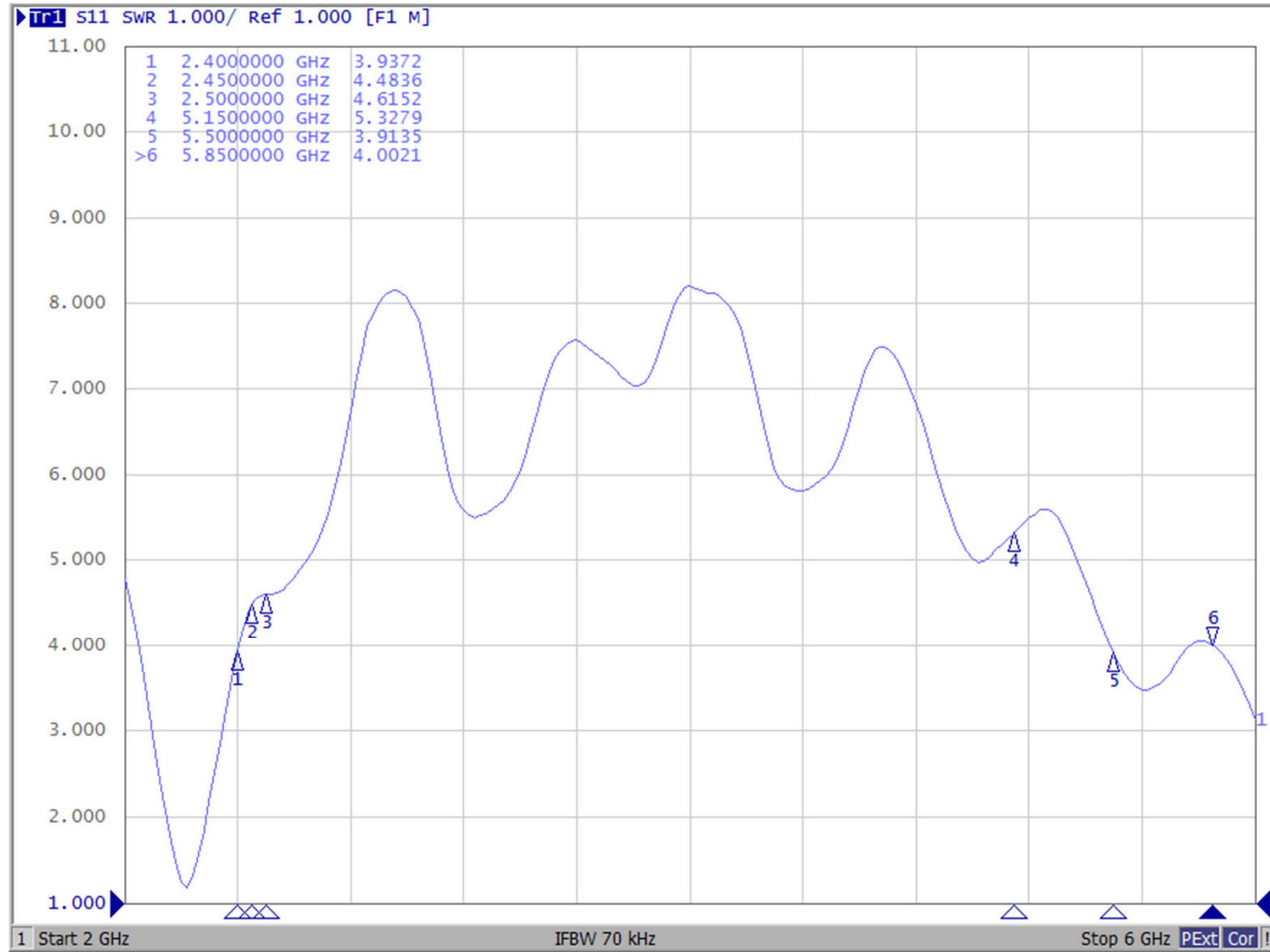
YOZ Side



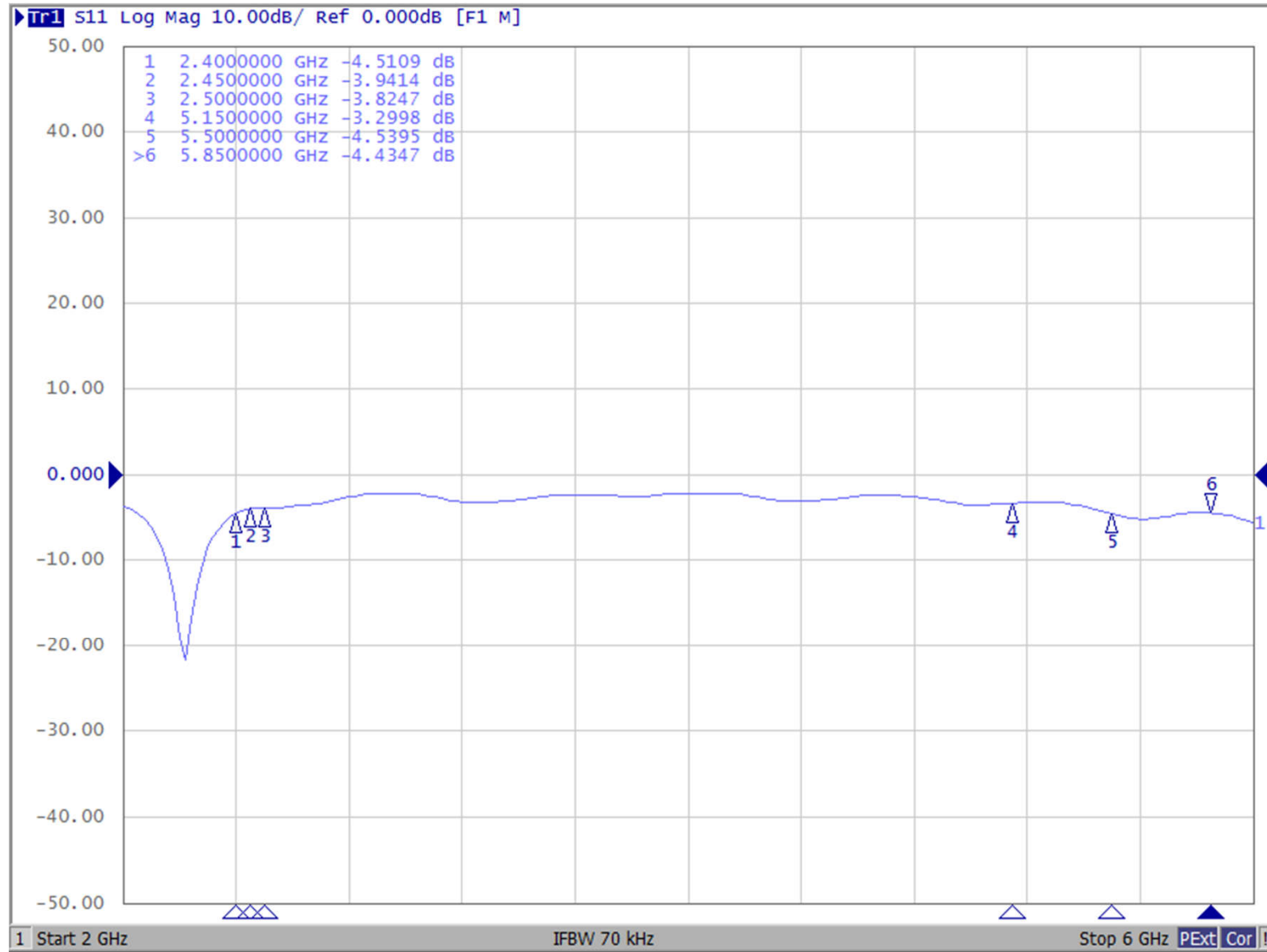
5500MHz 3D Directional Diagram



Passive data (ANT3-SWR)



Passive data (ANT3-RL)



Passive data (ANT3-Efficiency&Peak Gain)

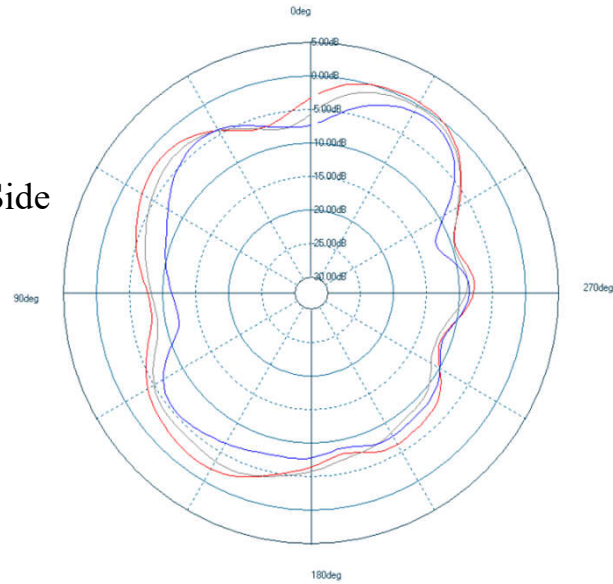


Frequency	Efficiency		Peak Gain
	Mhz	%	
2400	34.85	-4.58	1.82
2410	34.23	-4.66	1.56
2420	29.17	-5.35	0.88
2430	31.42	-5.03	1.11
2440	28.03	-5.52	0.62
2450	27.71	-5.57	0.46
2460	25.80	-5.88	0.55
2470	22.43	-6.49	0.16
2480	24.00	-6.20	0.28
2490	19.33	-7.14	-0.75
2500	20.25	-6.94	-0.87

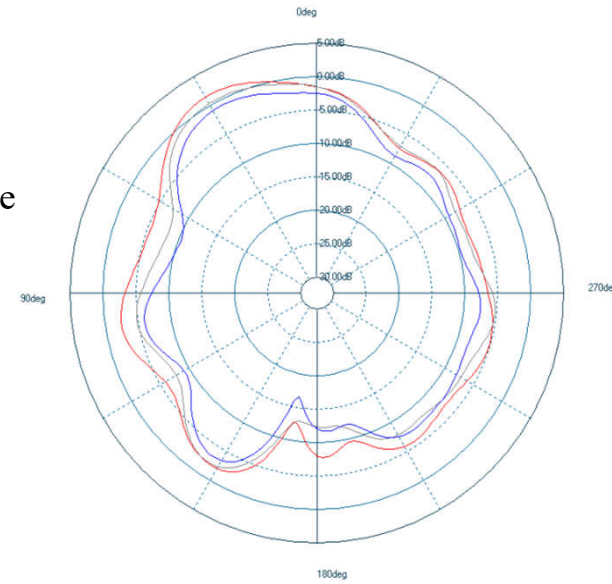
Frequency	Efficiency		Peak Gain
	Mhz	%	
5150	7.14	-11.46	-5.11
5200	7.99	-10.97	-4.80
5250	8.84	-10.53	-4.18
5300	10.04	-9.98	-3.55
5350	11.85	-9.26	-2.93
5400	12.88	-8.90	-2.11
5450	14.58	-8.36	-0.90
5500	14.34	-8.44	-0.69
5550	15.08	-8.22	-0.27
5600	15.39	-8.13	0.18
5650	14.87	-8.28	-0.17
5700	14.52	-8.38	-0.19
5750	16.26	-7.89	-0.12
5800	18.36	-7.36	0.46
5850	20.51	-6.88	0.53

Passive data(ANT3-2.4G Directional Diagram)

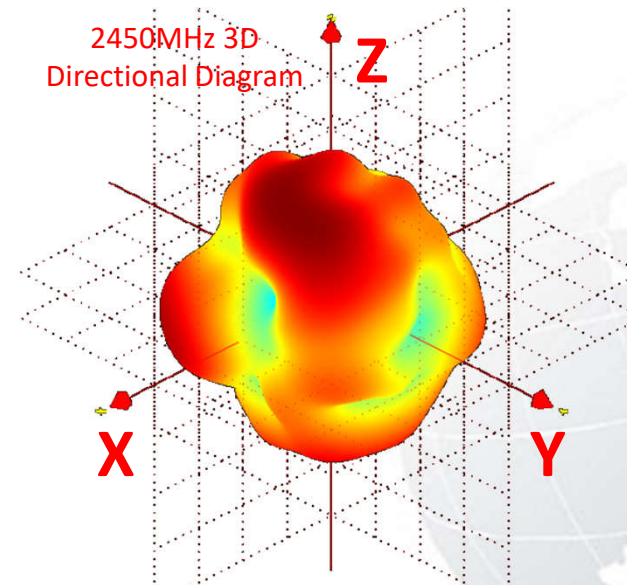
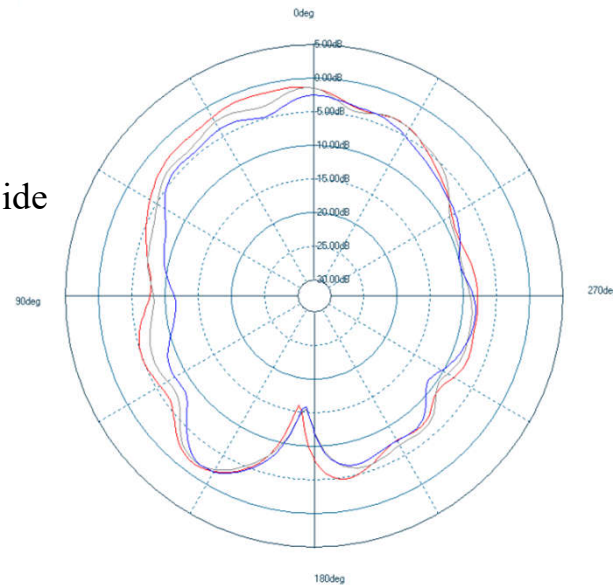
XOY Side



XOZ Side



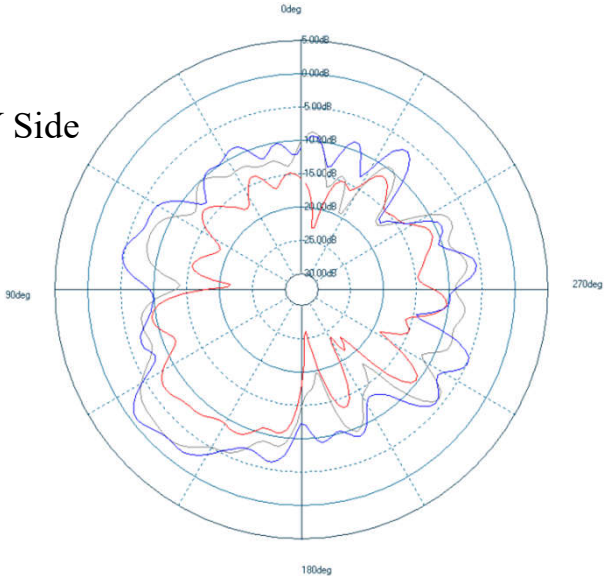
YOZ Side



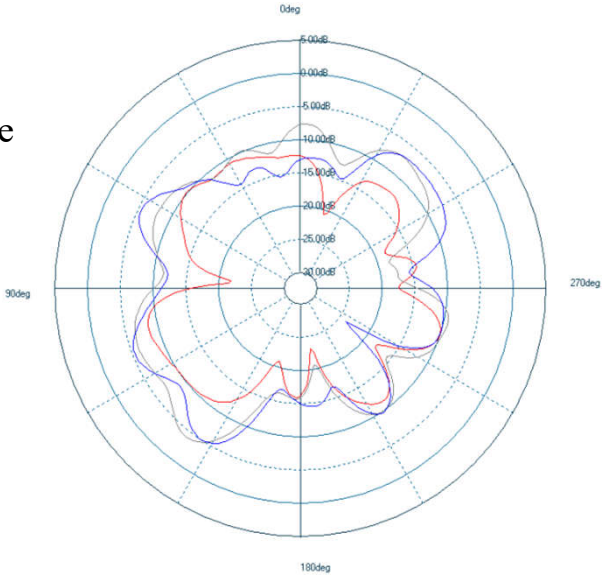
Passive data(ANT3-5G Directional Diagram)



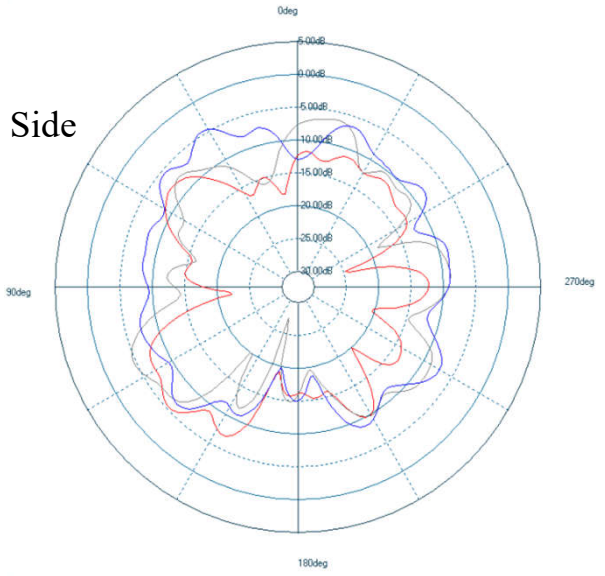
XOY Side



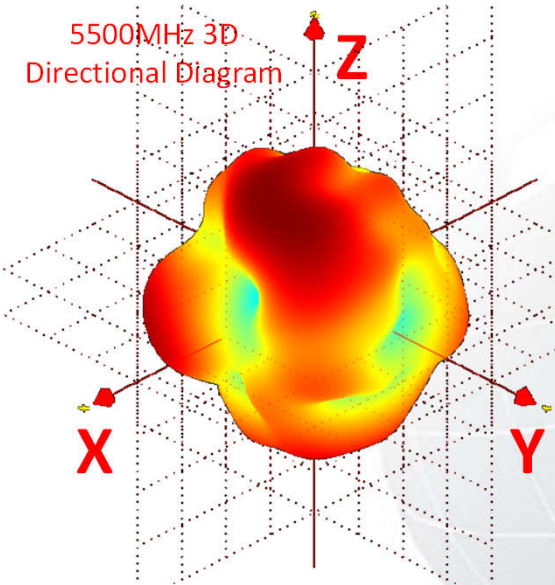
XOZ Side



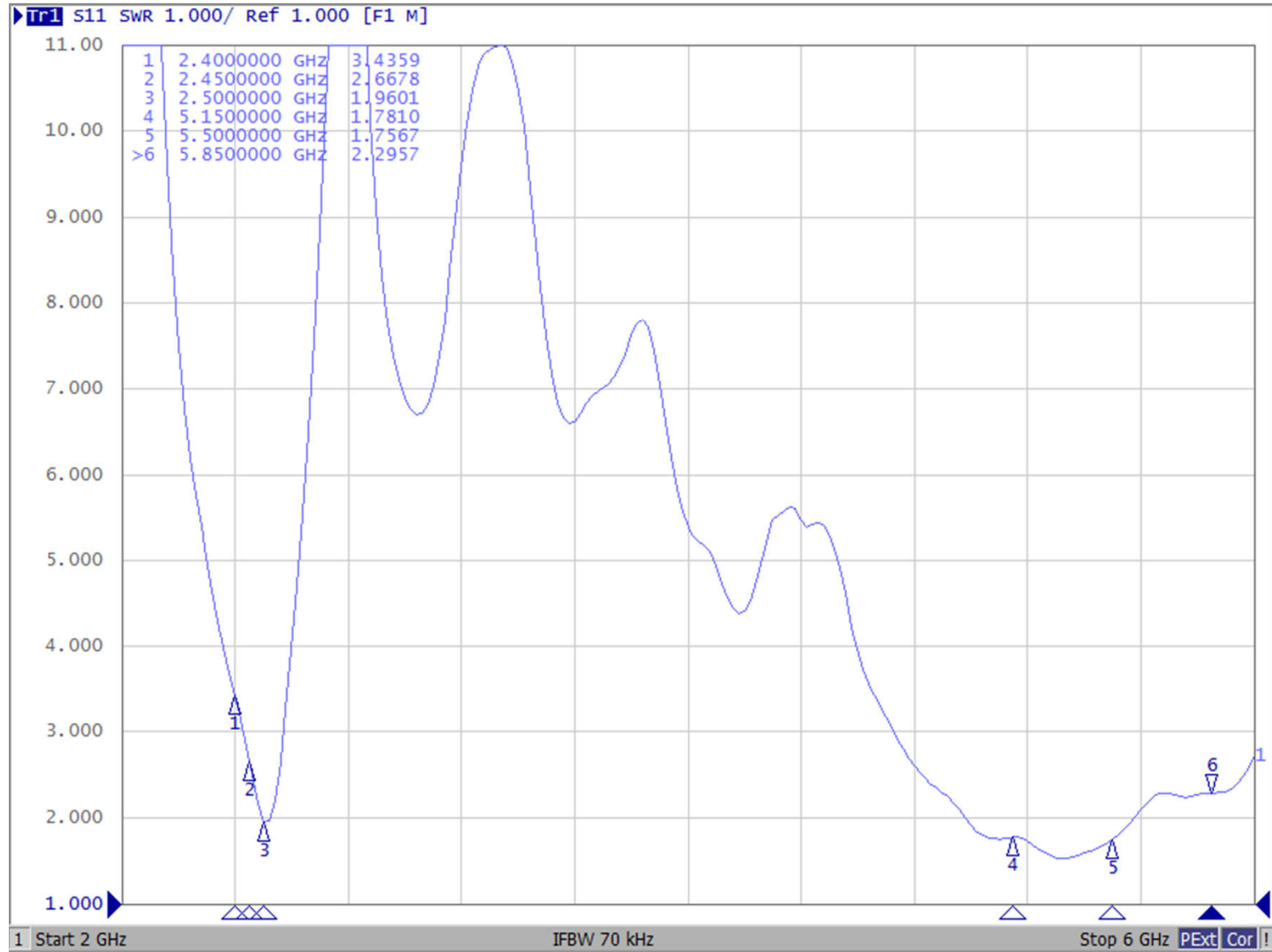
YOZ Side



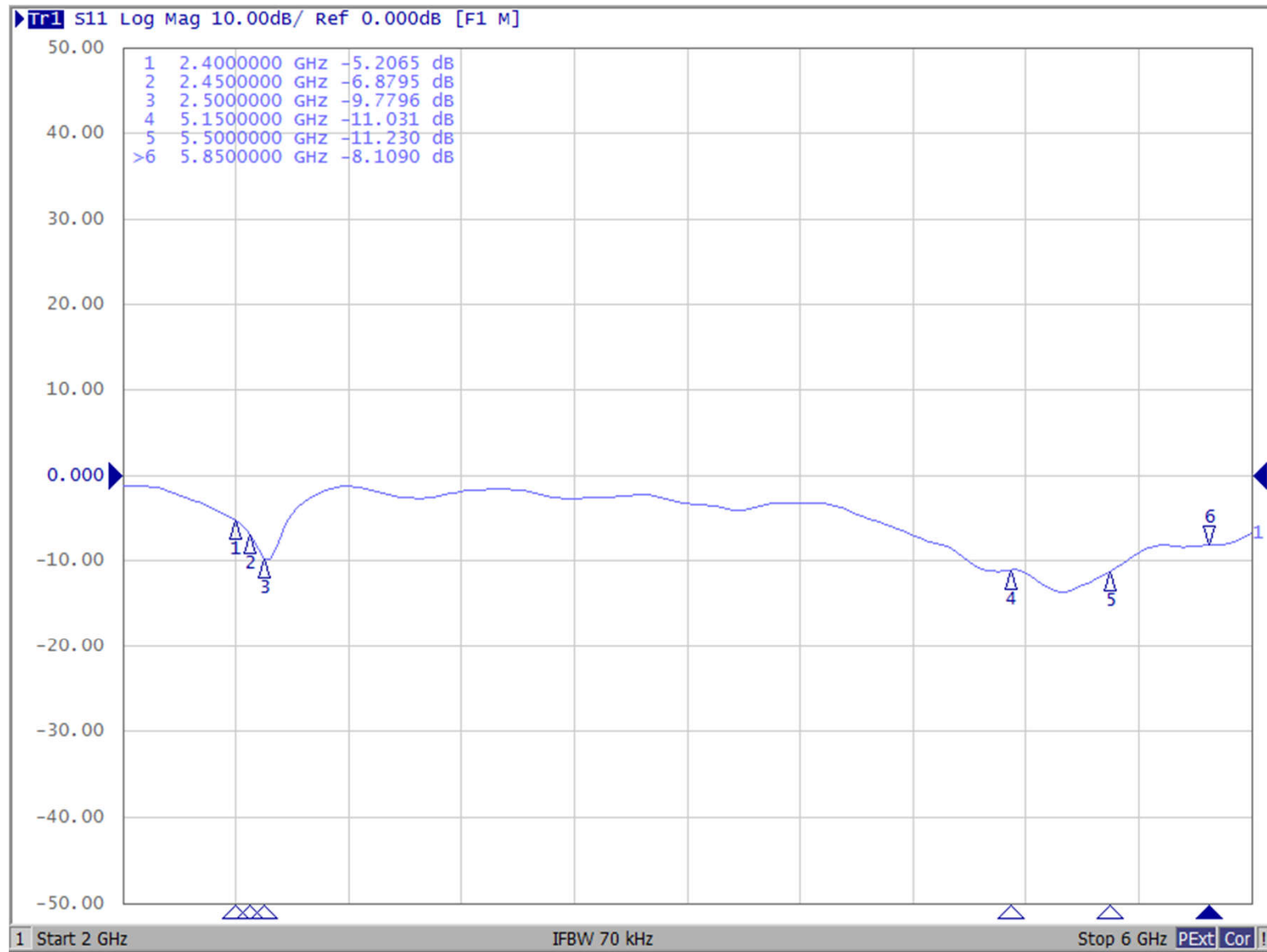
5500MHz 3D Directional Diagram



Passive data (ANT4-SWR)



Passive data (ANT4-RL)



Passive data (ANT4-Efficiency&Peak Gain)



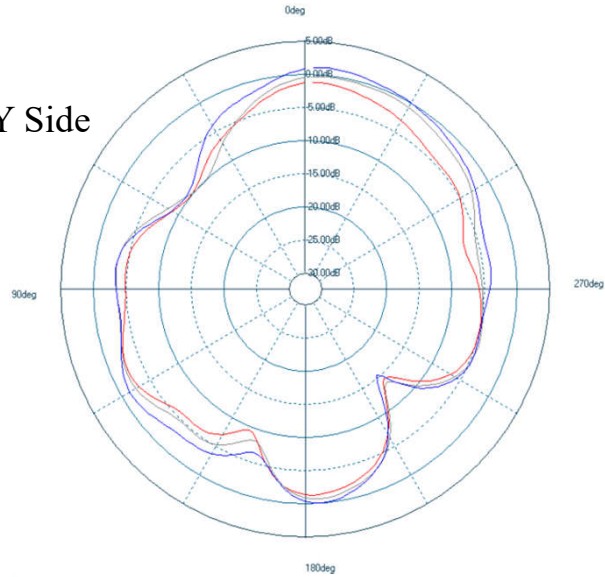
Frequency Mhz	Efficiency		Peak Gain dB
	%	dB	
2400	29.74	-5.27	0.00
2410	30.34	-5.18	-0.07
2420	34.00	-4.69	0.53
2430	34.91	-4.57	0.92
2440	37.21	-4.29	1.40
2450	37.99	-4.20	1.58
2460	40.74	-3.90	2.12
2470	41.48	-3.82	2.21
2480	44.39	-3.53	2.28
2490	44.62	-3.51	2.12
2500	45.54	-3.42	2.09

Frequency Mhz	Efficiency		Peak Gain dB
	%	dB	
5150	55.00	-2.60	3.54
5200	54.28	-2.65	3.30
5250	52.11	-2.83	2.92
5300	52.80	-2.77	2.65
5350	55.19	-2.58	2.73
5400	54.21	-2.66	2.67
5450	56.91	-2.45	2.87
5500	54.00	-2.68	2.89
5550	52.74	-2.78	3.08
5600	50.31	-2.98	3.08
5650	48.92	-3.11	2.93
5700	45.48	-3.42	2.56
5750	43.29	-3.64	2.06
5800	39.25	-4.06	1.41
5850	37.11	-4.30	1.49

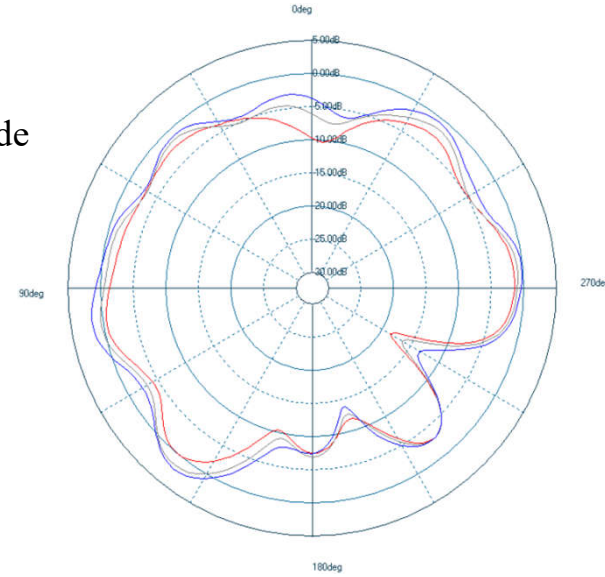
Passive data(ANT4-2.4G Directional Diagram)



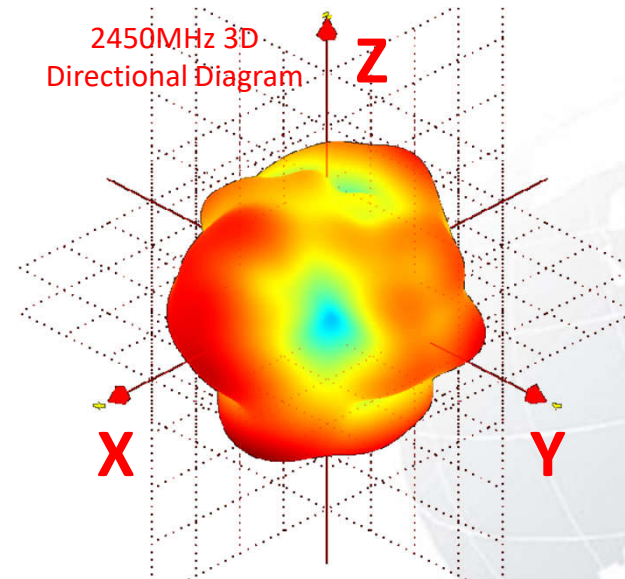
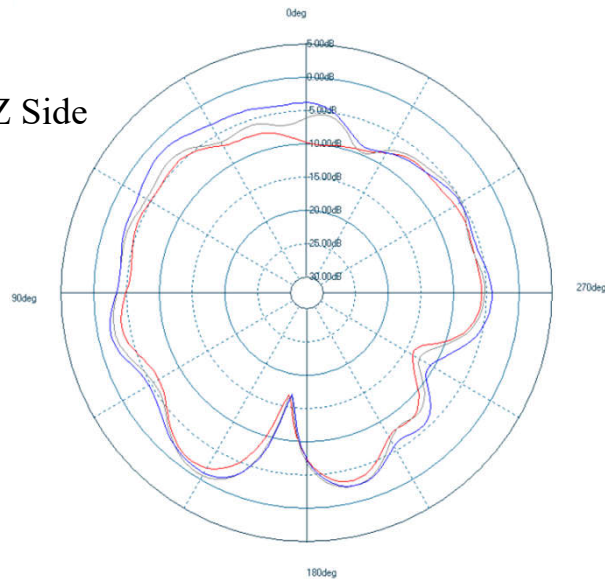
XOY Side



XOZ Side

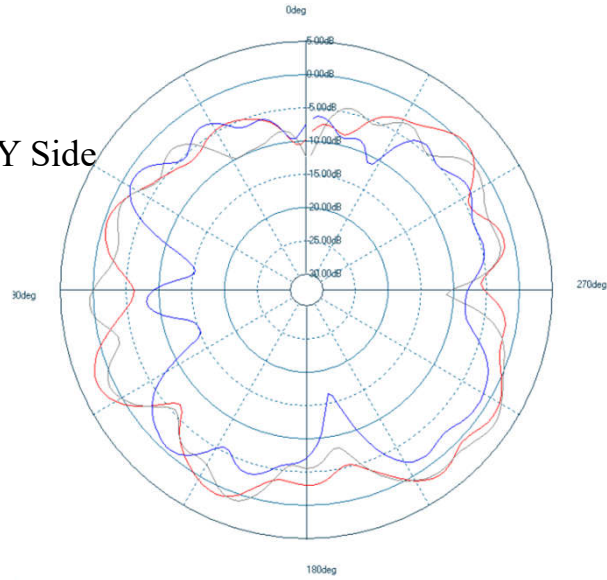


YOZ Side

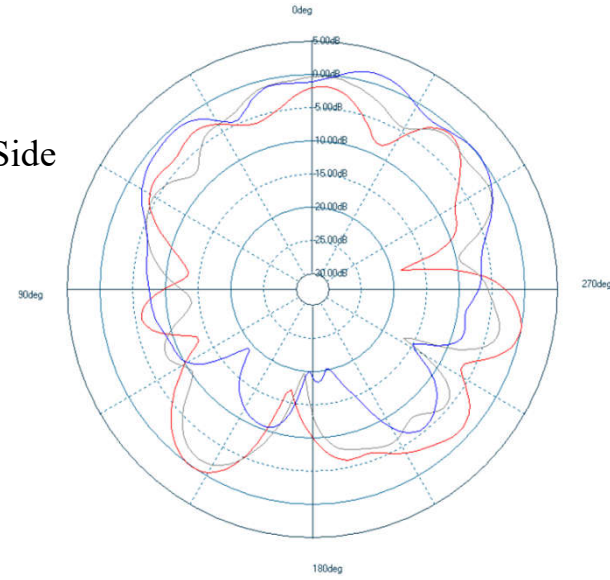


Passive data(ANT4-5G Directional Diagram)

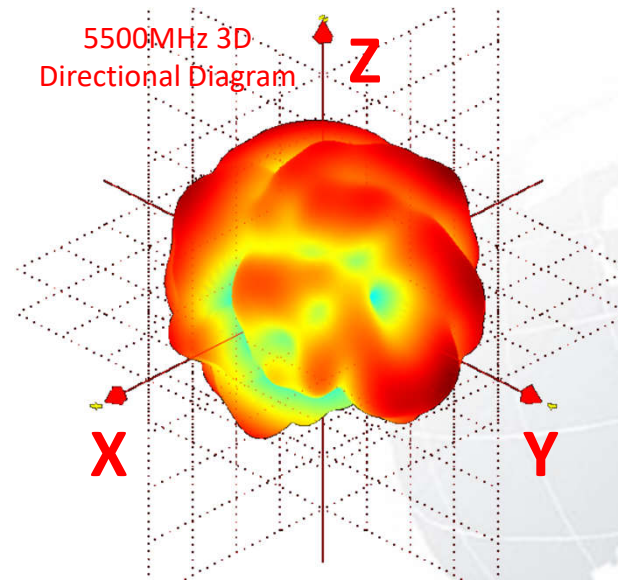
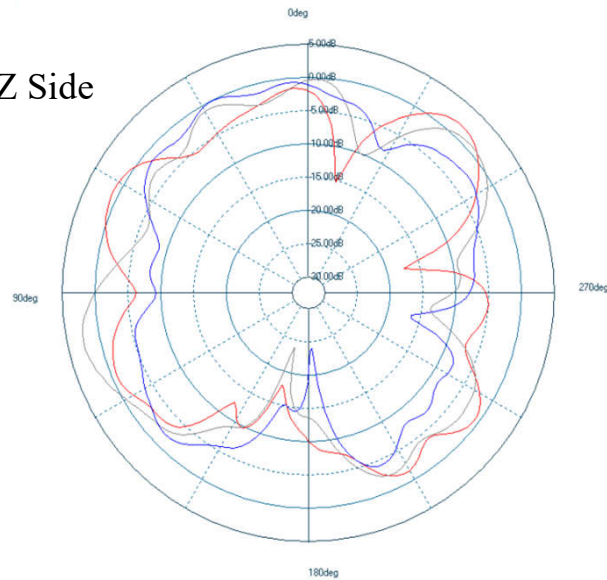
XOY Side



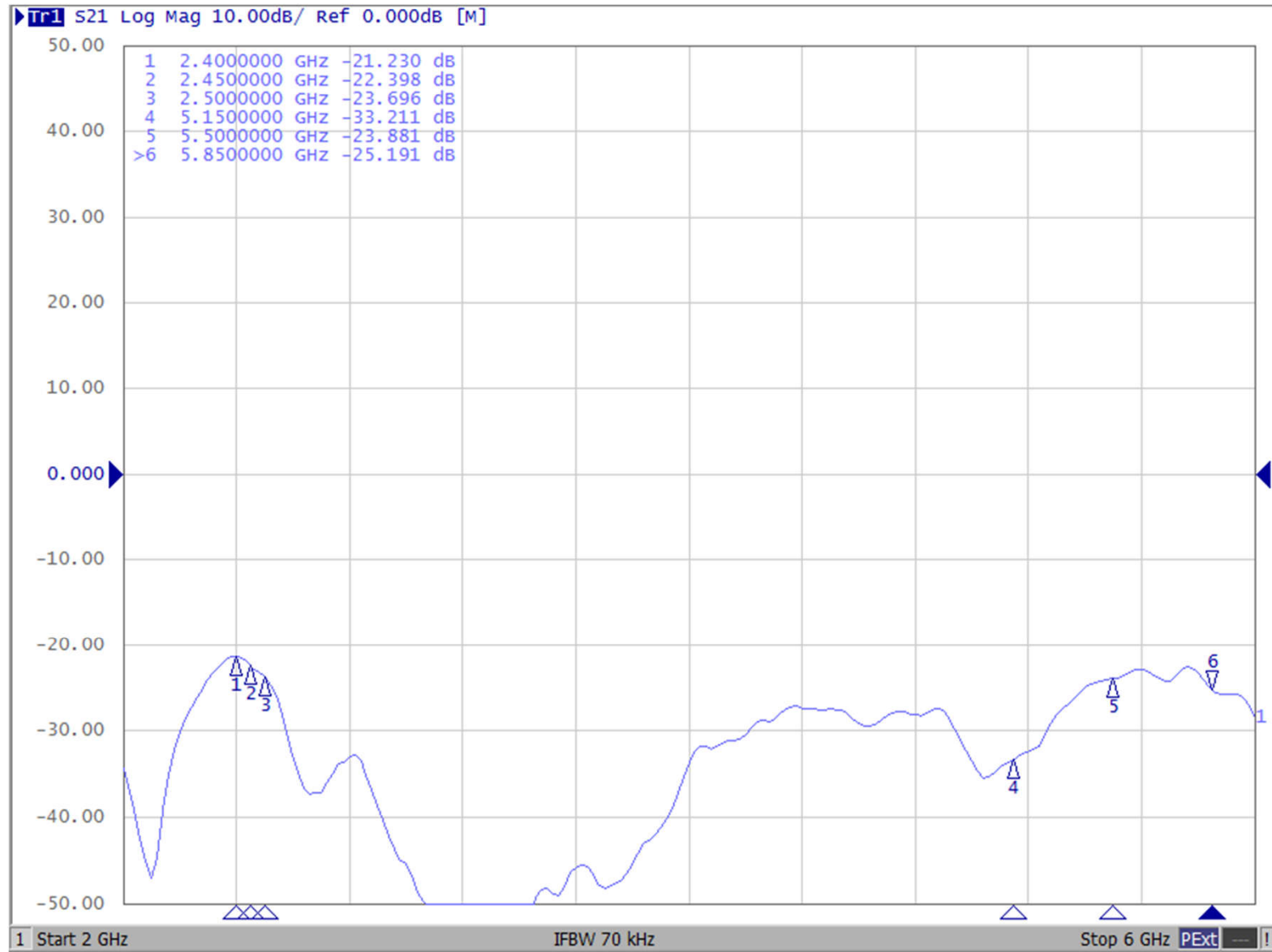
XOZ Side



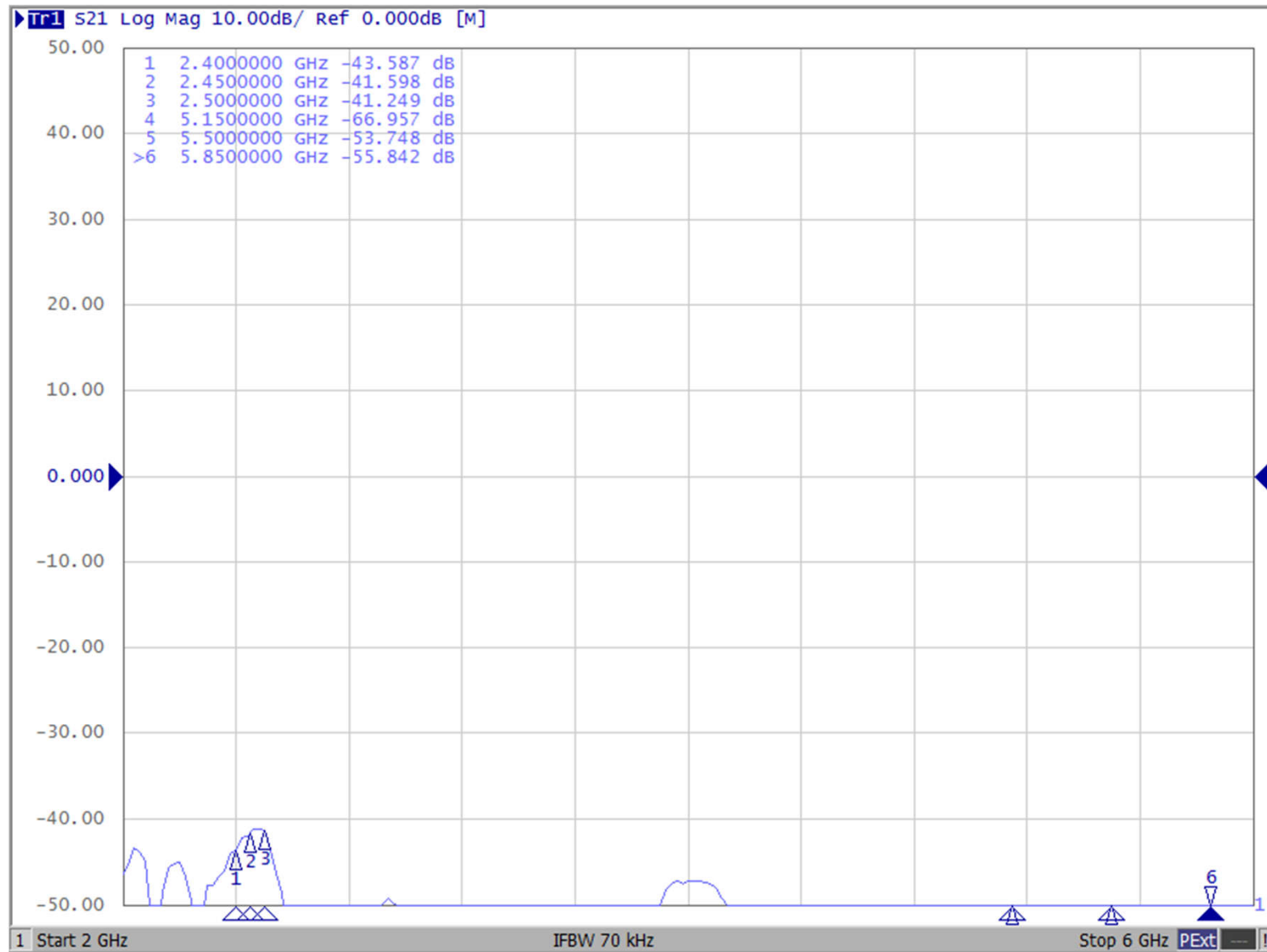
YOZ Side



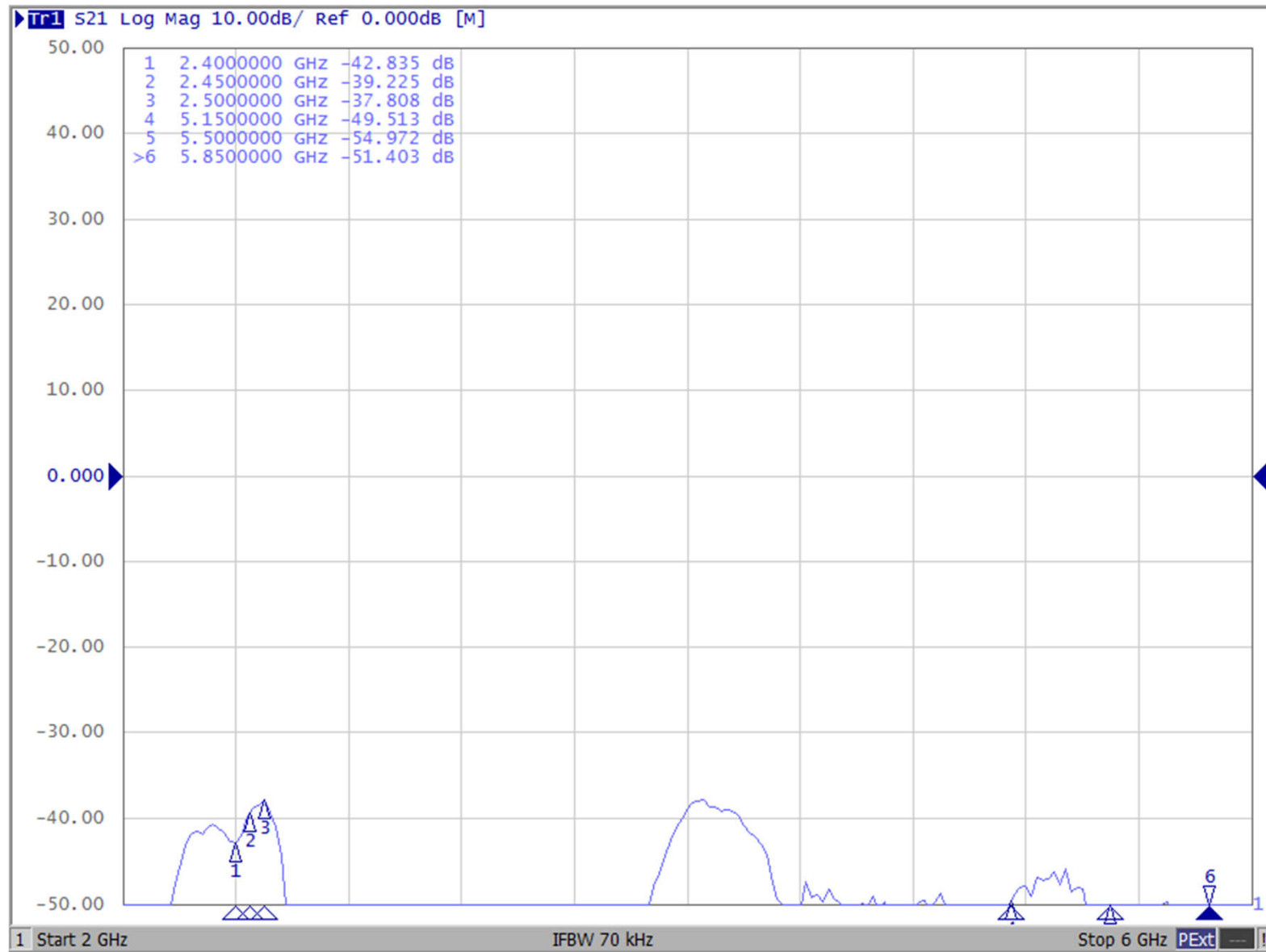
ANT1&ANT2 antenna isolation degree



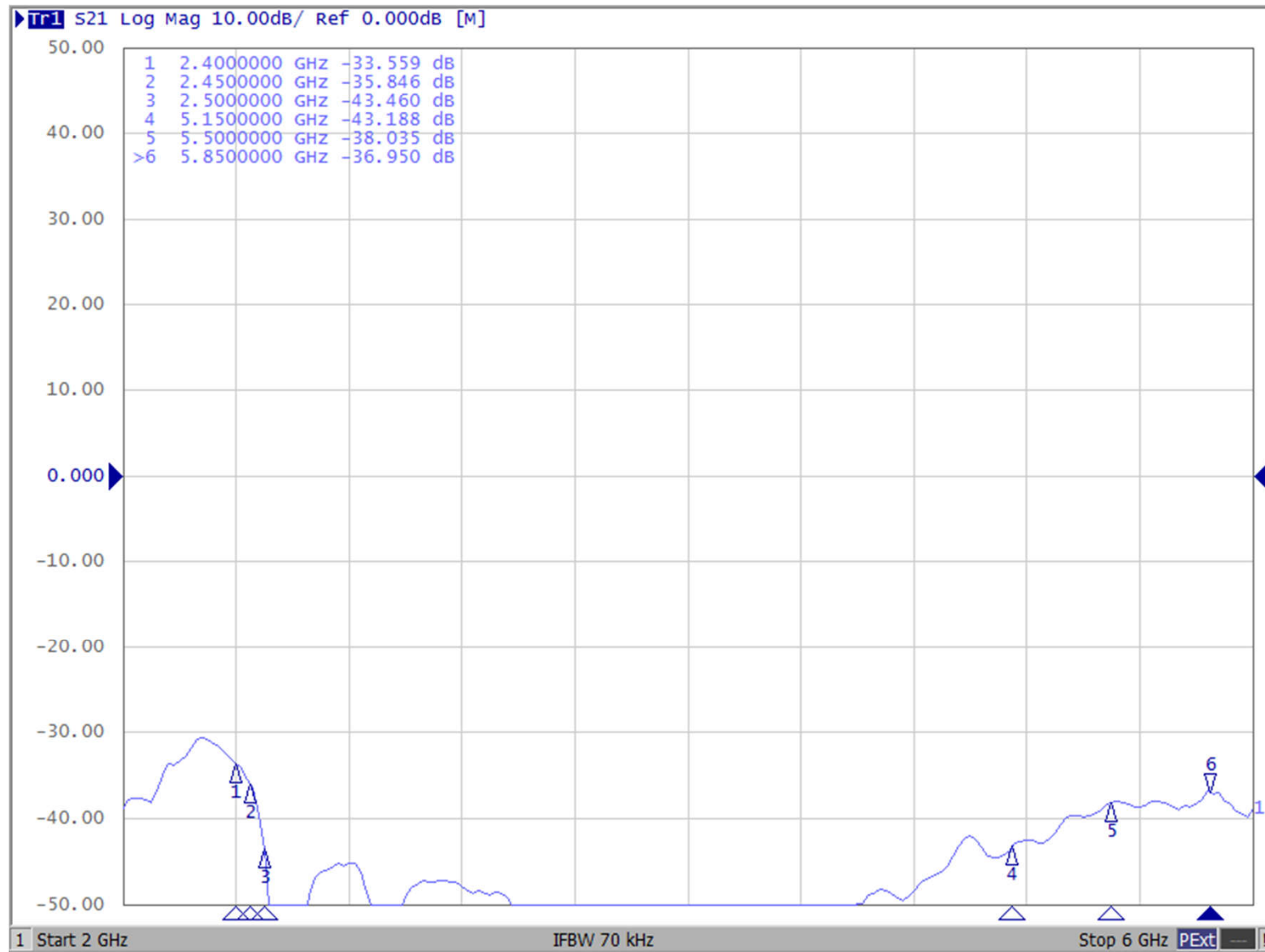
ANT1&ANT3 antenna isolation degree



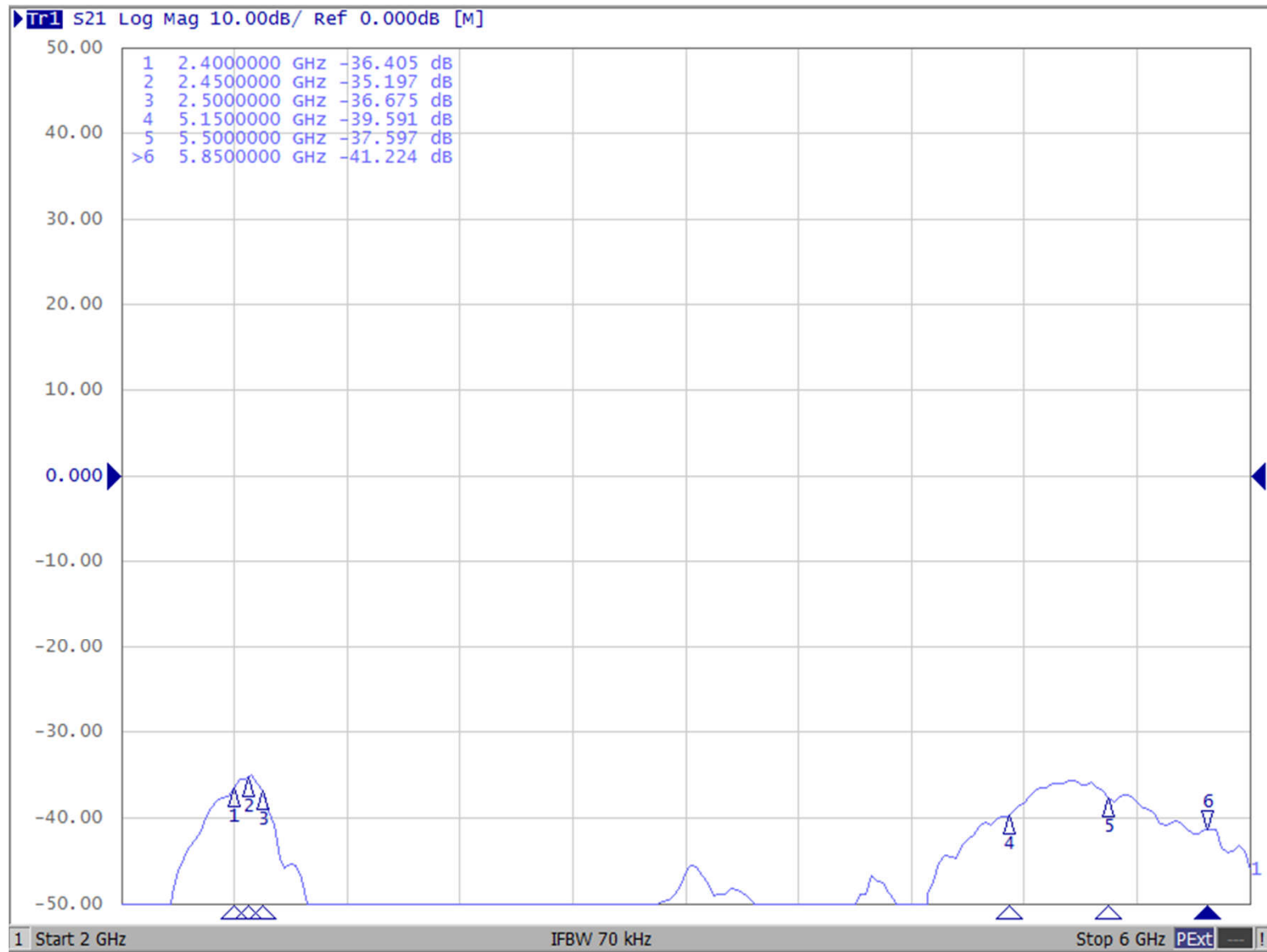
ANT1&ANT4 antenna isolation degree



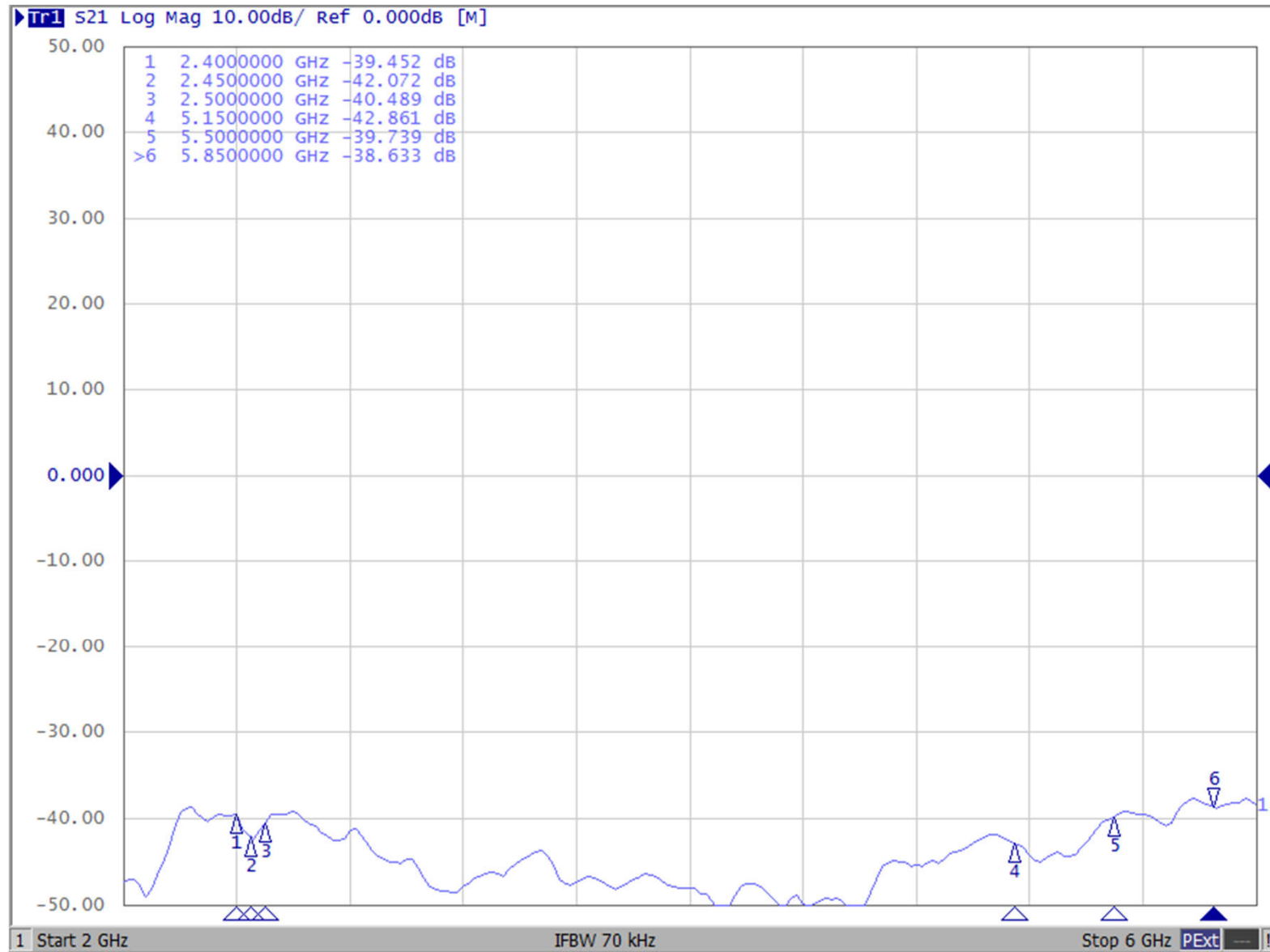
ANT2&ANT3 antenna isolation degree



ANT2&ANT4 antenna isolation degree



ANT3&ANT4 antenna isolation degree





THANKS