

Keyence Antenna Test Report

2023/09/12



Model:WS-A01



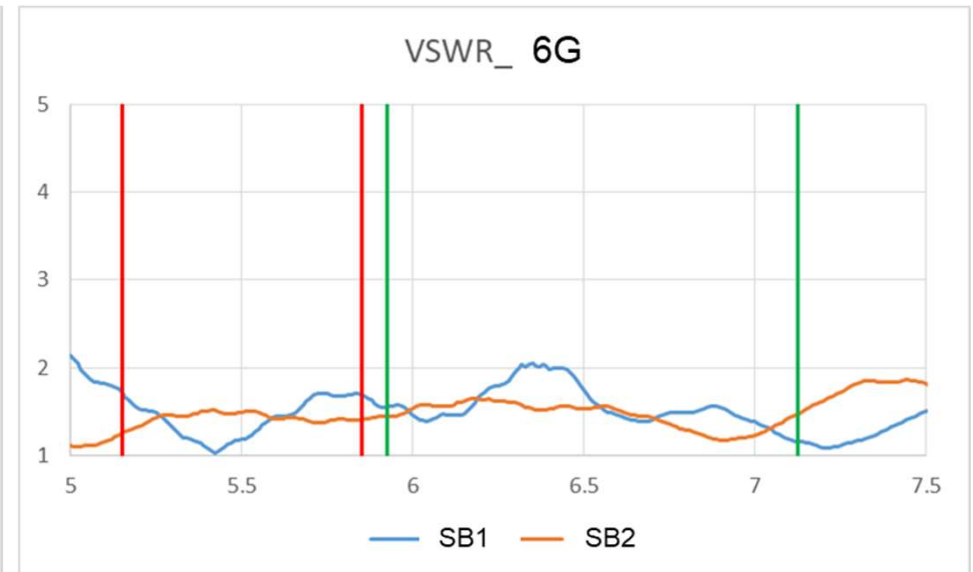
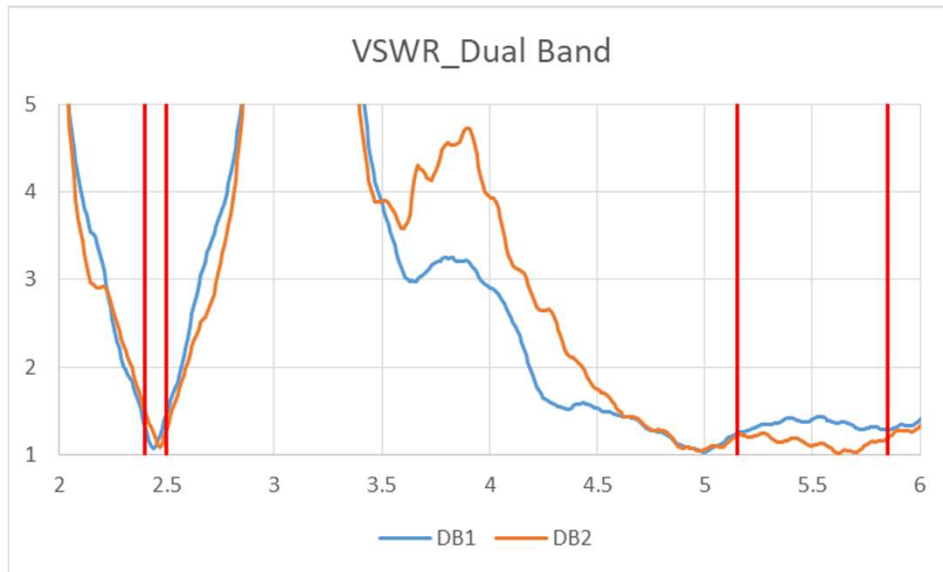
Performance Summary

Frequency combination		VSWR	Peak Gain(dBi)	Efficiency	Isolation (within radio)	Isolation (among radio)
DB1	2.4~2.5GHz	< 2.0	3.8 / 5.4	66 % / 79 %	20dB	Dual Band to 5G: 25dB @5G
DB2	5.15~5.85GHz	< 2.0	2.8 / 4.8	71 % / 79 %	25dB	
SB1	5.925~7.125GHz	< 2.0	4.2	72 %	25dB	
SB2			4.4	70 %		

Note: The Photo please refer Appendix Test Photo.

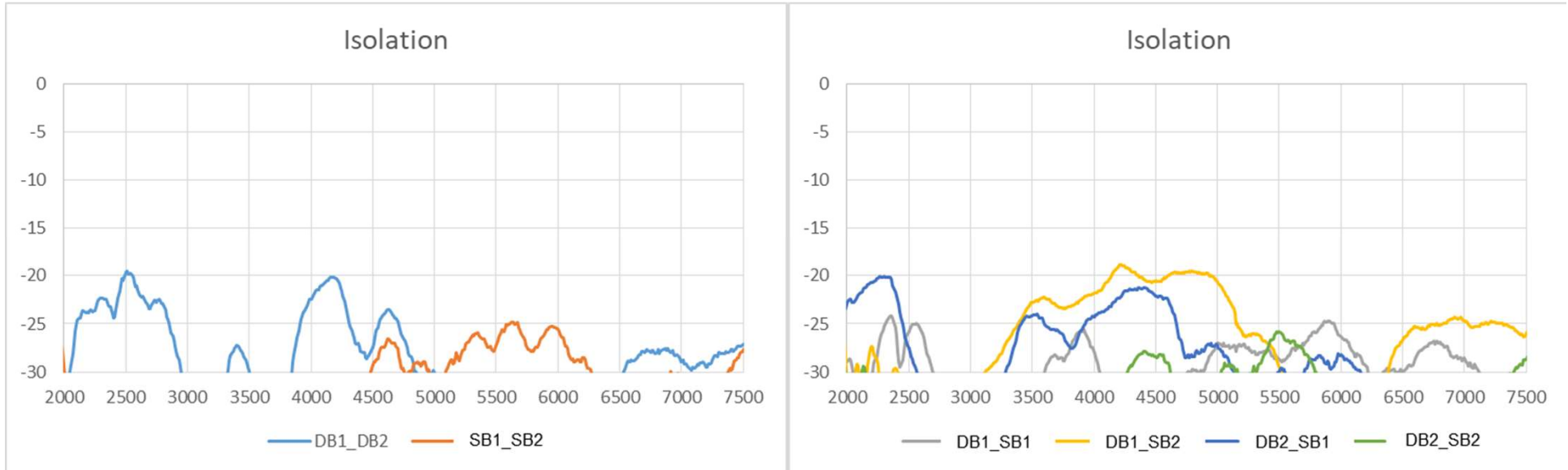


VSWR



Note: The Photo please refer Appendix Test Photo.

Isolation



Note: The Photo please refer Appendix Test Photo.

Peak Gain / Efficiency (2/5G)

		2400	2450	2500	Avg.	5150	5350	5550	5750	5850	Avg.
DB1	Eff.	64%	67%	68%	66%	80%	79%	76%	80%	78%	79%
	Avg. Gain	-1.96	-1.74	-1.65		-1.43	-1.20	-1.19	-1.08	-1.35	
	Peak Gain	3.38	3.79	3.56		5.07	5.00	4.72	5.31	5.46	
DB2	Eff.	69%	73%	71%	71%	79%	79%	77%	81%	79%	79%
	Avg. Gain	-1.64	-1.38	-1.49		-1.03	-1.04	-1.12	-0.93	-1.01	
	Peak Gain	2.72	2.84	2.68		4.44	4.77	5.47	5.64	5.20	

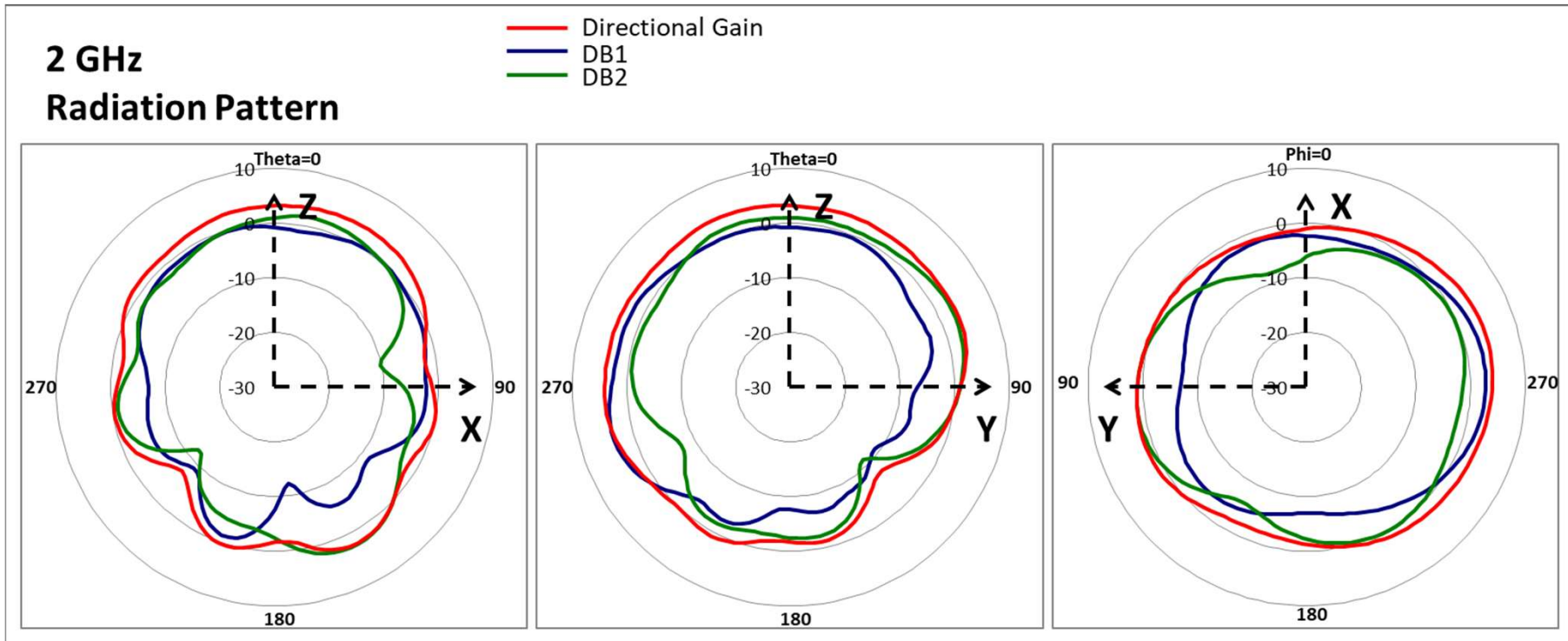


Peak Gain / Efficiency (6G)

		5955	6000	6145	6525	6825	7125	Avg.
SB1	Eff.	72%	74%	70%	73%	71%	70%	72%
	Avg. Gain	-1.41	-1.33	-1.49	-1.37	-1.48	-1.53	
	Peak Gain	3.57	3.50	3.63	3.5	3.0	4.2	
SB2	Eff.	70%	69%	71%	69%	70%	68%	70%
	Avg. Gain	-1.54	-1.59	-1.46	-1.63	-1.54	-1.66	
	Peak Gain	4.26	4.30	4.35	3.2	3.1	4.4	

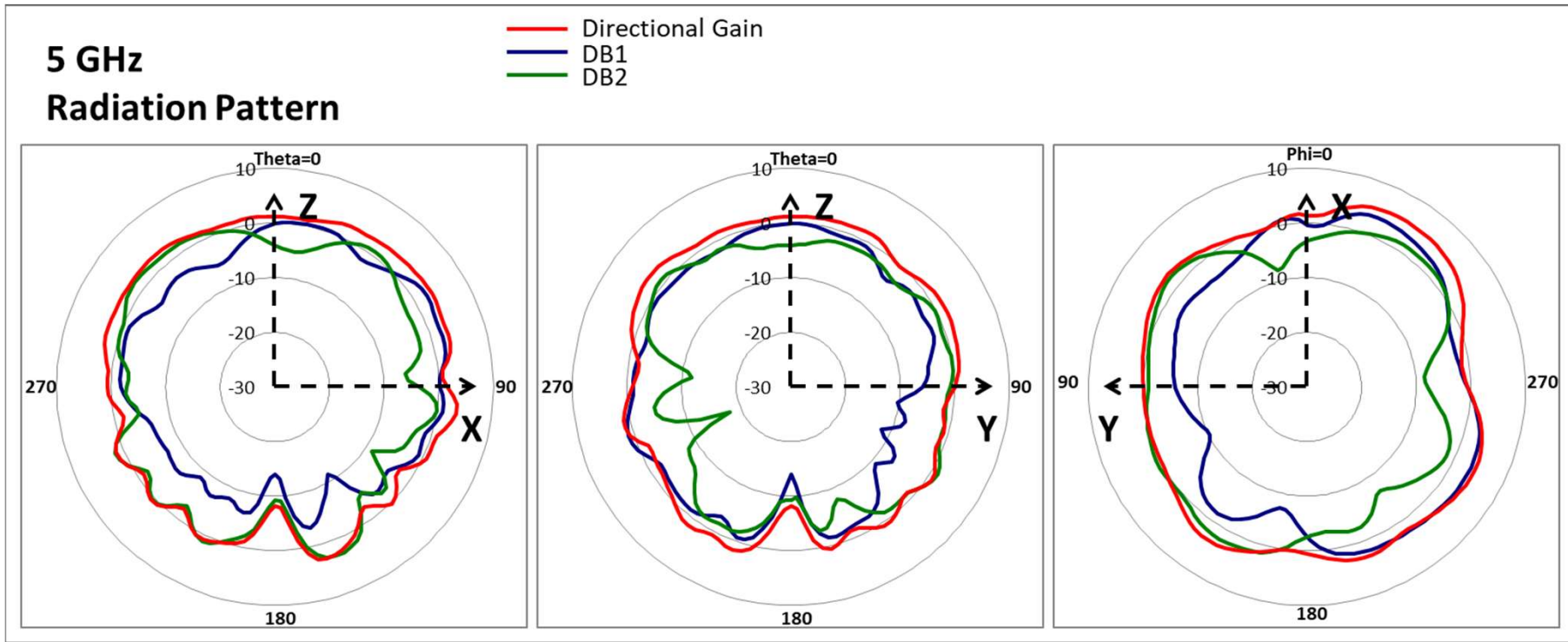


Realized Gain Pattern Dual Band 2/5G



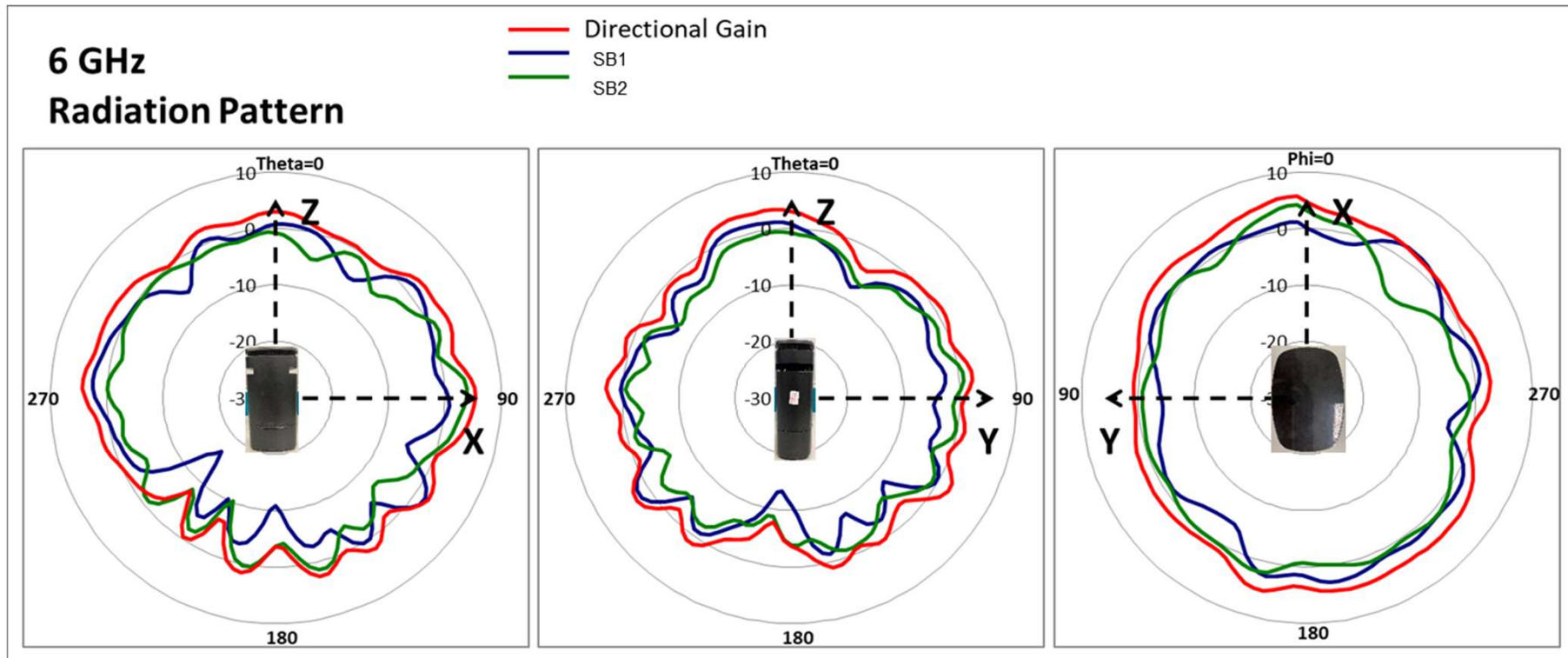
Note: The Photo please refer Appendix Test Photo.

Realized Gain Pattern Dual Band 2/5G



Note: The Photo please refer Appendix Test Photo.

Realized Gain Pattern 6G



WNC

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