

DLRx (Curve) Dual-band WIFI antenna 2.4GHz and 5GHz Measurement report

Summary

The WIFI antenna is attached to the WIFI module (P2) for measurement

The WIFI module was fixtured for antenna measurement

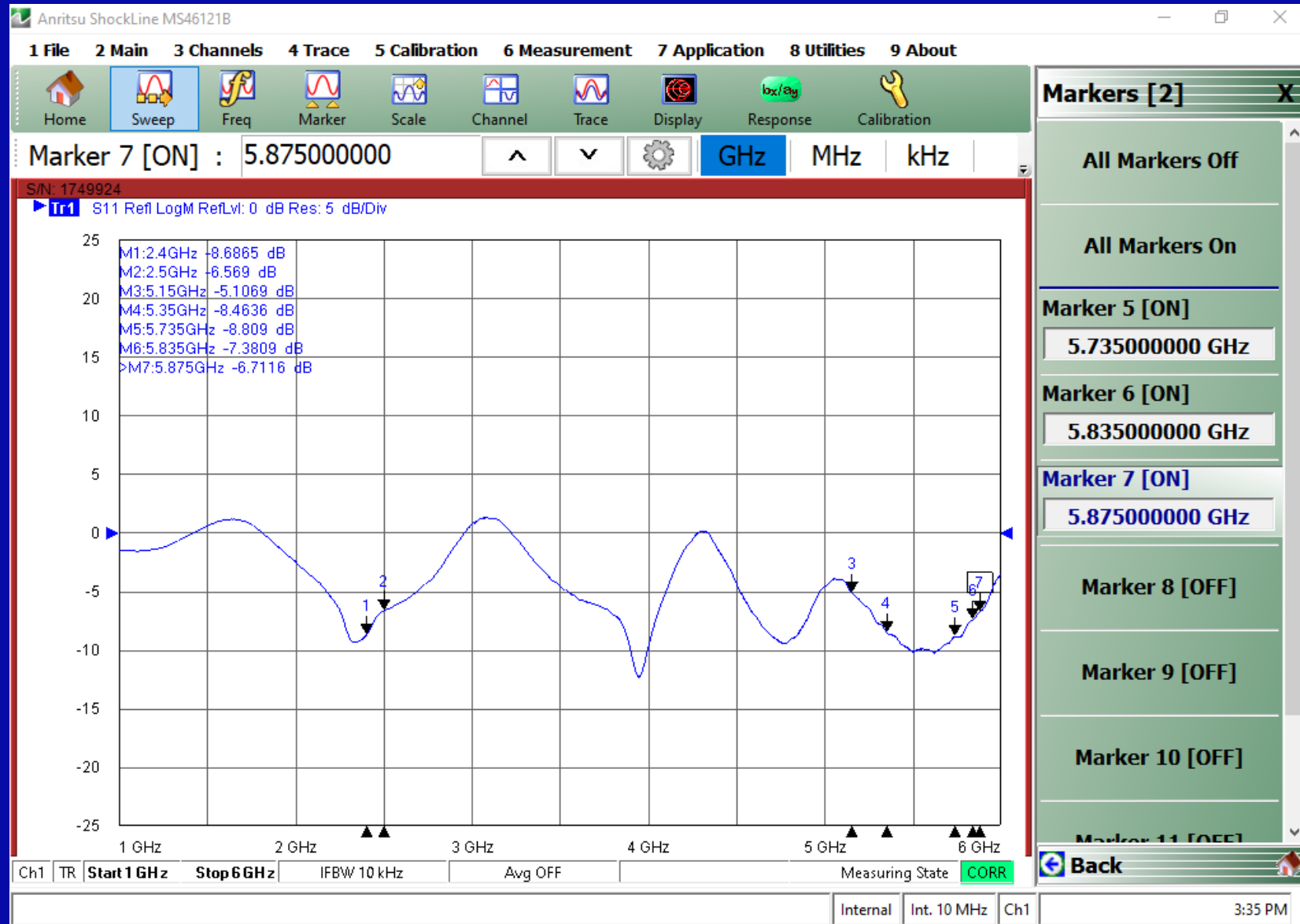
The main antenna port was terminated with 50 Ohms load

The measurement was conducted in free space

Photo of fixture



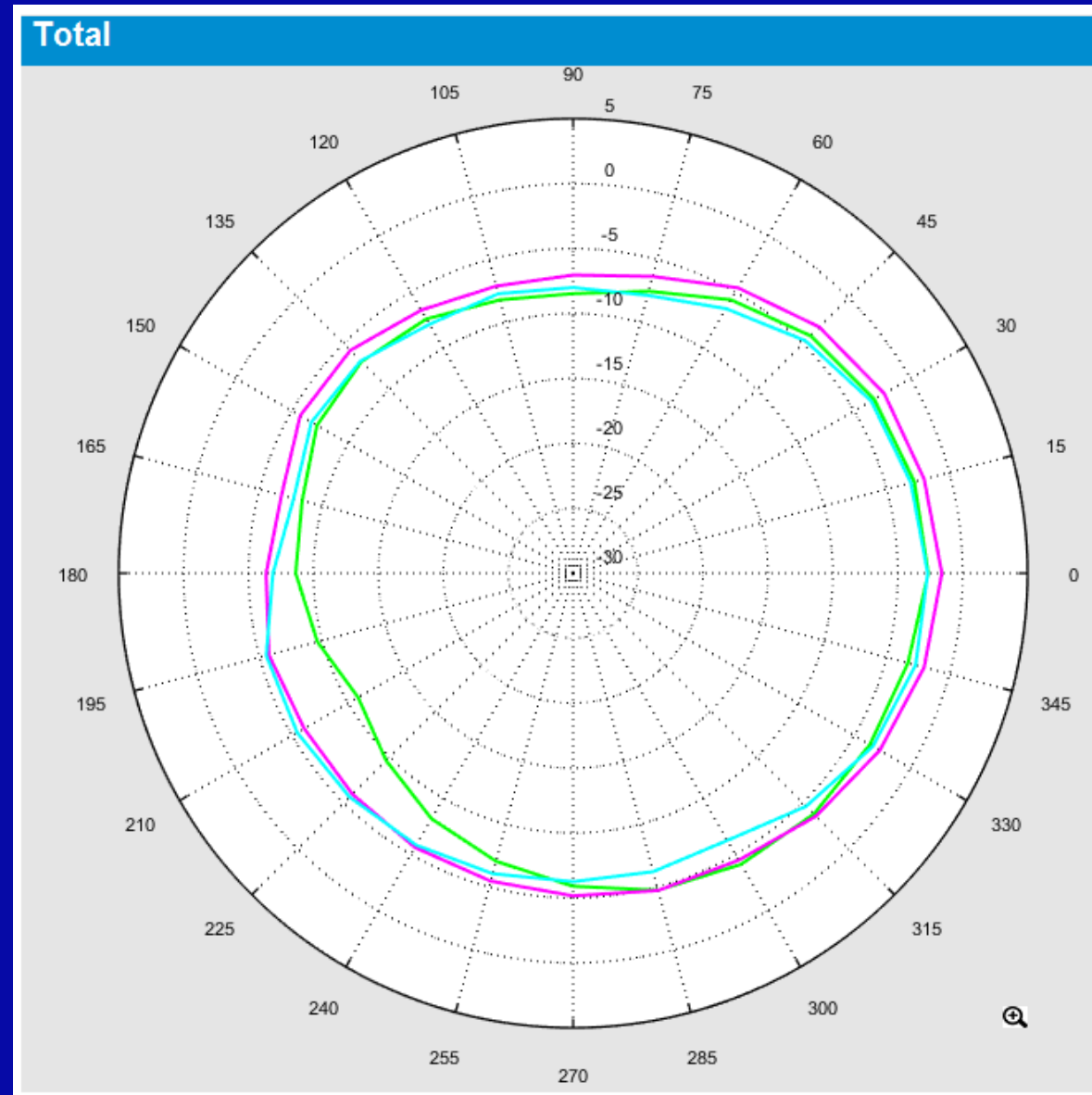
Return-loss plot



Measurement Summary

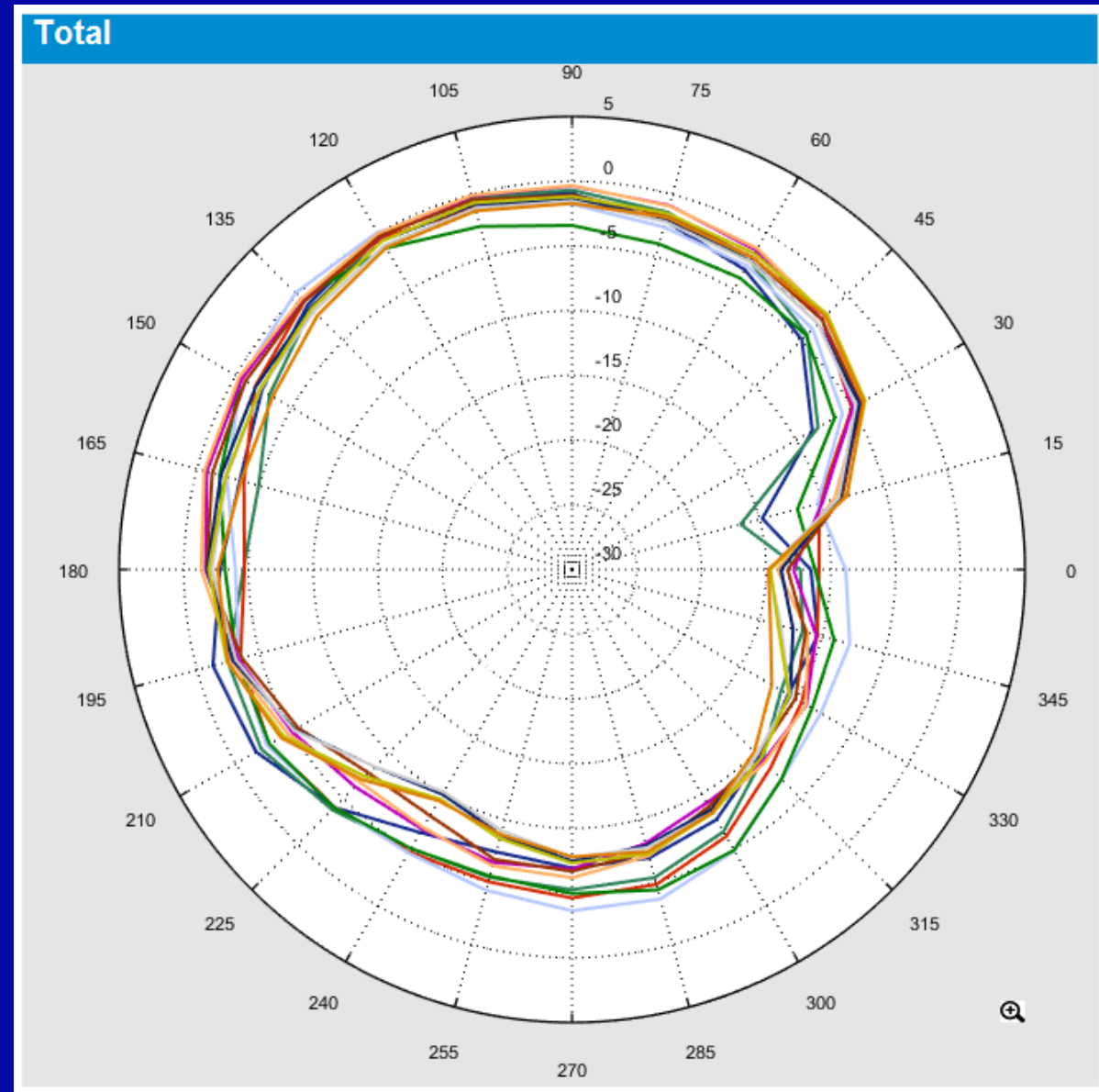
Frequency	2.4GHz	2.45GHz	2.5GHz	5.15GHz	5.2GHz	5.25GHz	5.3GHz	5.35GHz	5.7GHz	5.735GHz	5.785GHz	5.825GHz	5.835GHz	5.85GHz	5.875GHz
Efficiency (dB)	-3.83	-3.3	-3.84	-3.24	-3.52	-3.49	-3.28	-3.92	-3.42	-3.08	-3.25	-3.44	-3.72	-3.29	-3.75
Efficiency (%)	41.4	46.77	41.3	47.42	44.46	44.77	46.99	40.55	45.5	49.2	47.32	45.29	42.46	46.88	42.17
Gain (dBi)	2.49	2.85	1.99	1.44	1.27	1.45	1.22	0.52	1.14	1.53	1.63	1.19	0.87	1.16	0.72

2D radiation pattern (Az plane - 2.4GHz band)



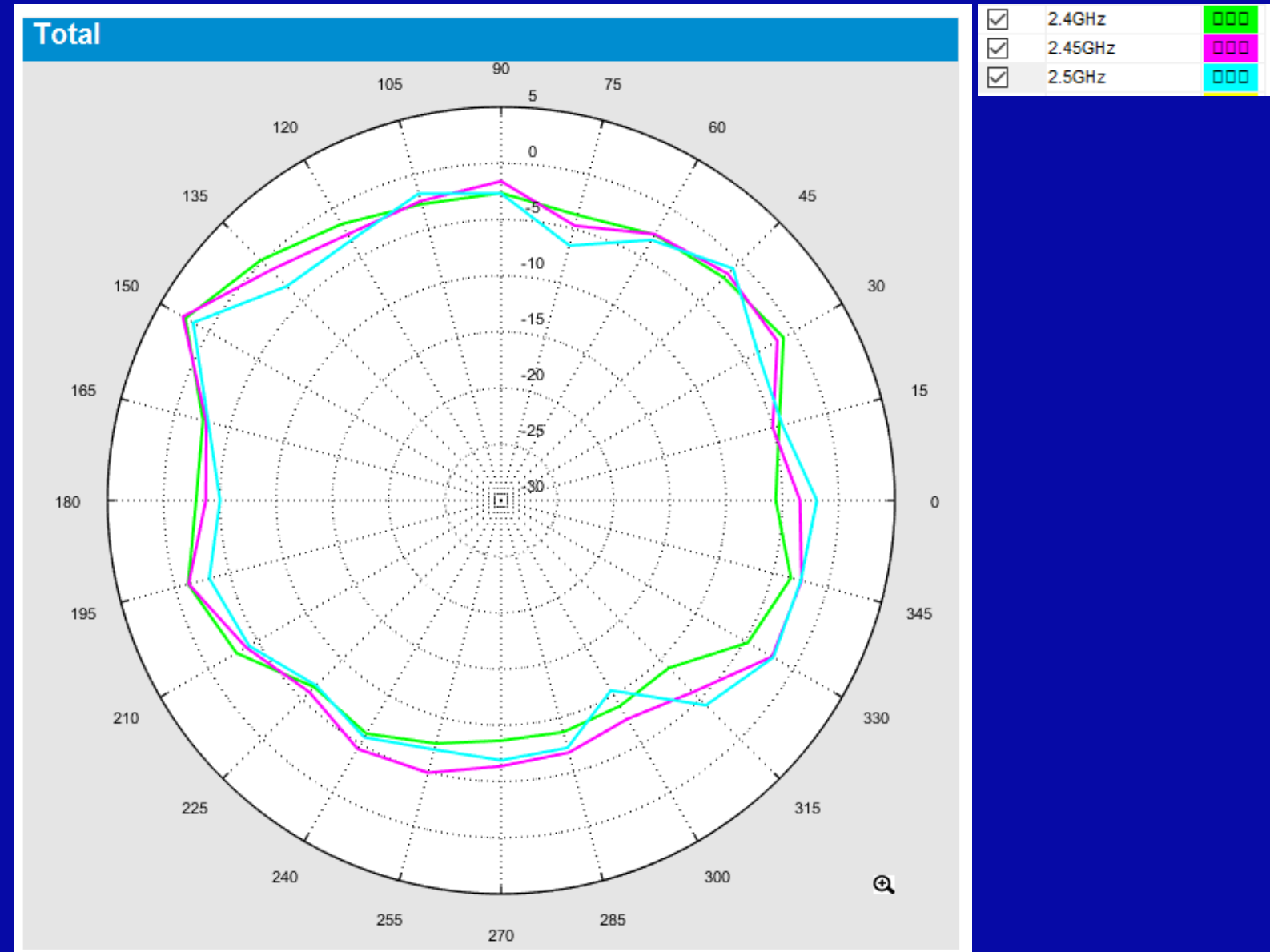
☒	2.4GHz	□□□
☒	2.45GHz	□□□
☒	2.5GHz	□□□

2D radiation pattern (Az plane – 5GHz band)

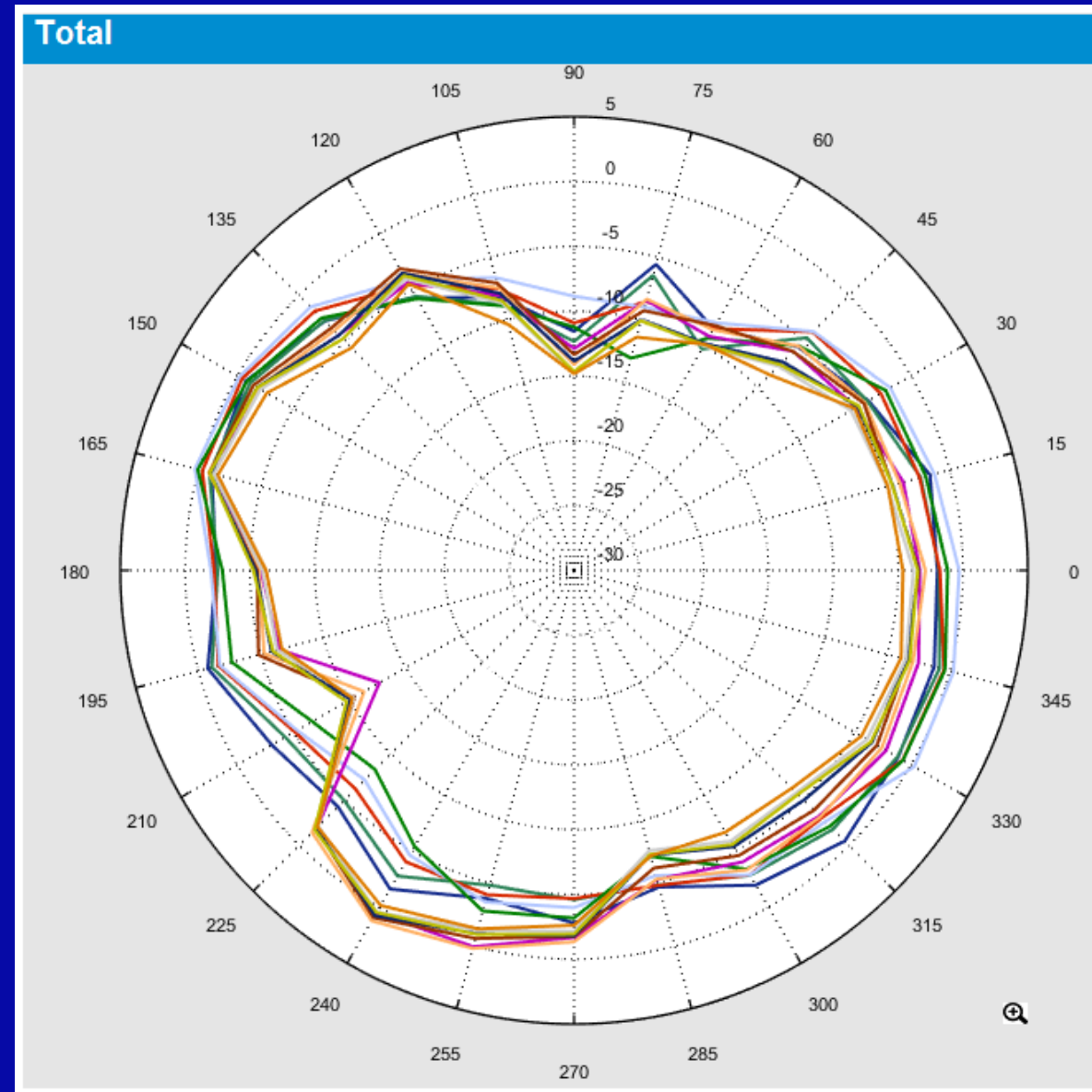


☒	5.15GHz	
☒	5.2GHz	
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☒	5.3GHz	
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☒	5.785GHz	
☒	5.825GHz	
☒	5.835GHz	
☒	5.85GHz	
☒	5.875GHz	

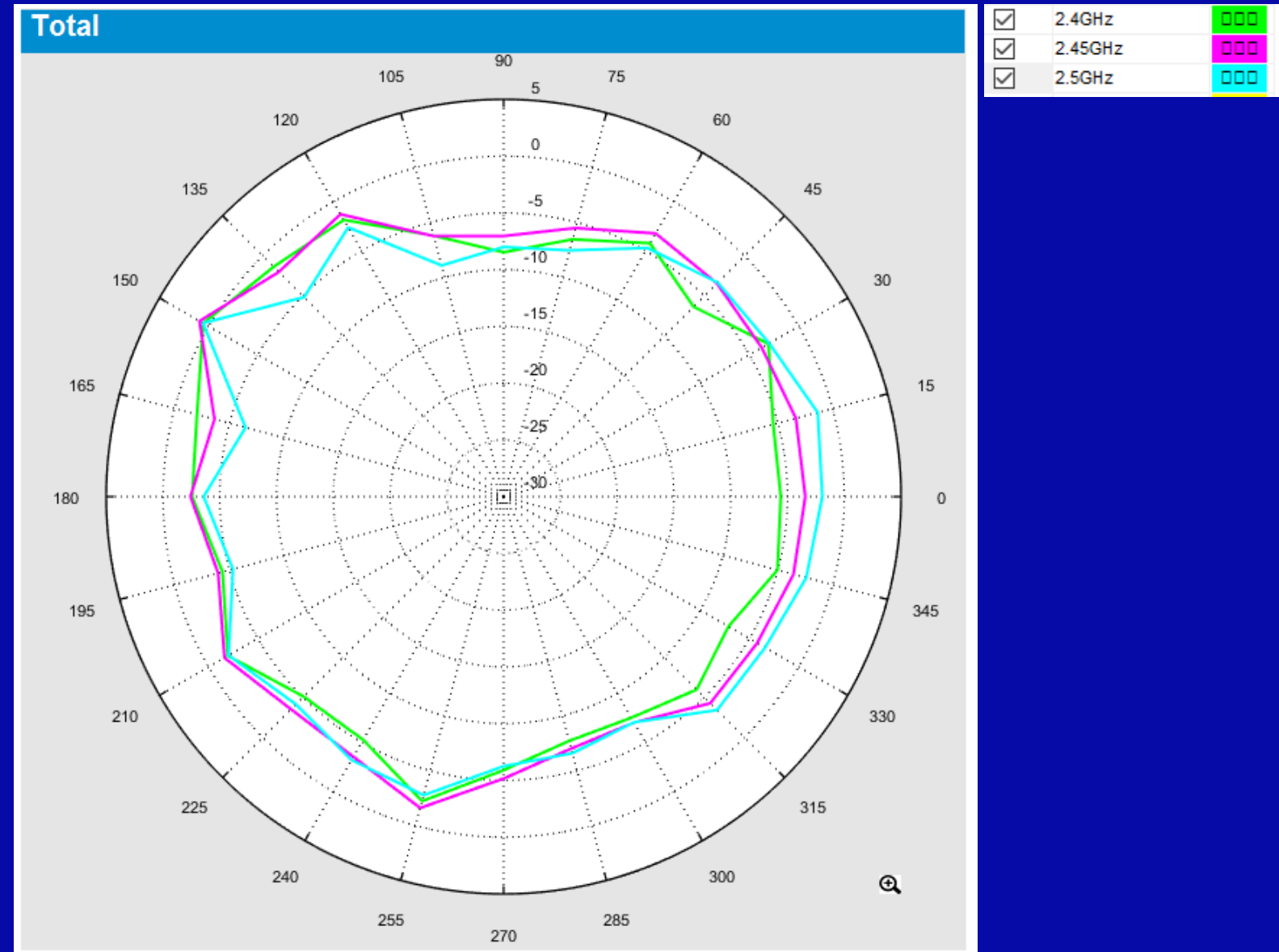
2D radiation pattern (E0 plane – 2.4GHz band)



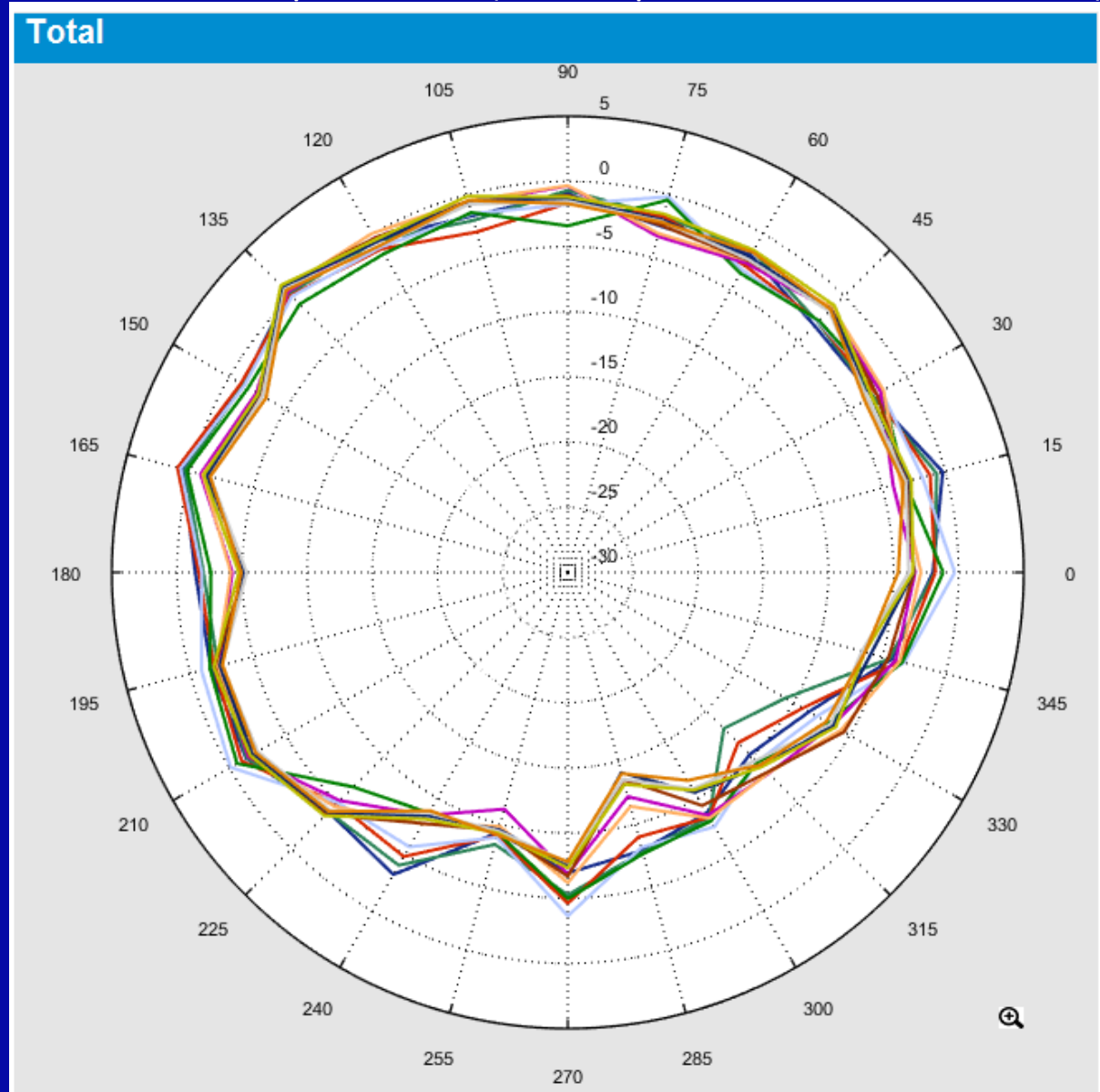
2D radiation pattern (EL0 plane – 5GHz band)



2D radiation pattern (EL90 plane – 2.4GHz band)



2D radiation pattern (EL90 plane – 5GHz band)



☒	5.15GHz	
☒	5.2GHz	
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☒	5.35GHz	
☒	5.7GHz	
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