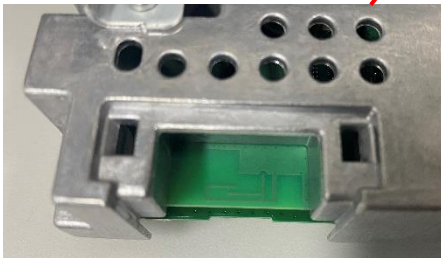
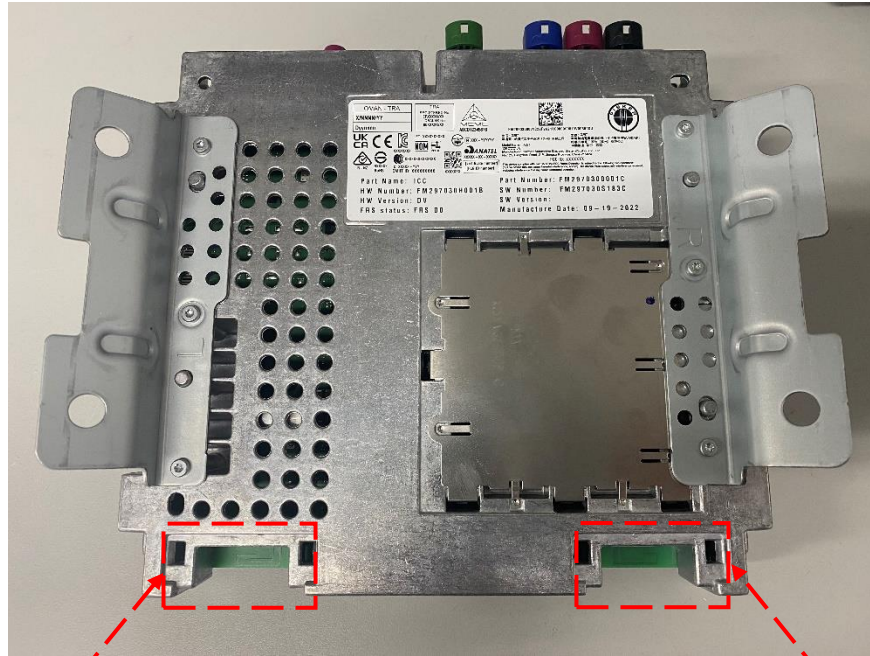




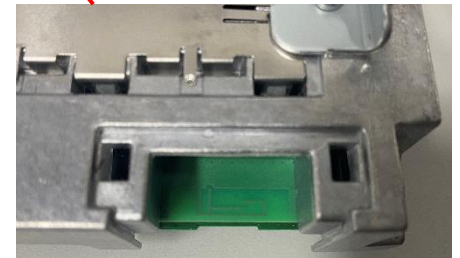
Fisker X297 ANTENNA TEST REPORT



1. Product Overview & Dimension



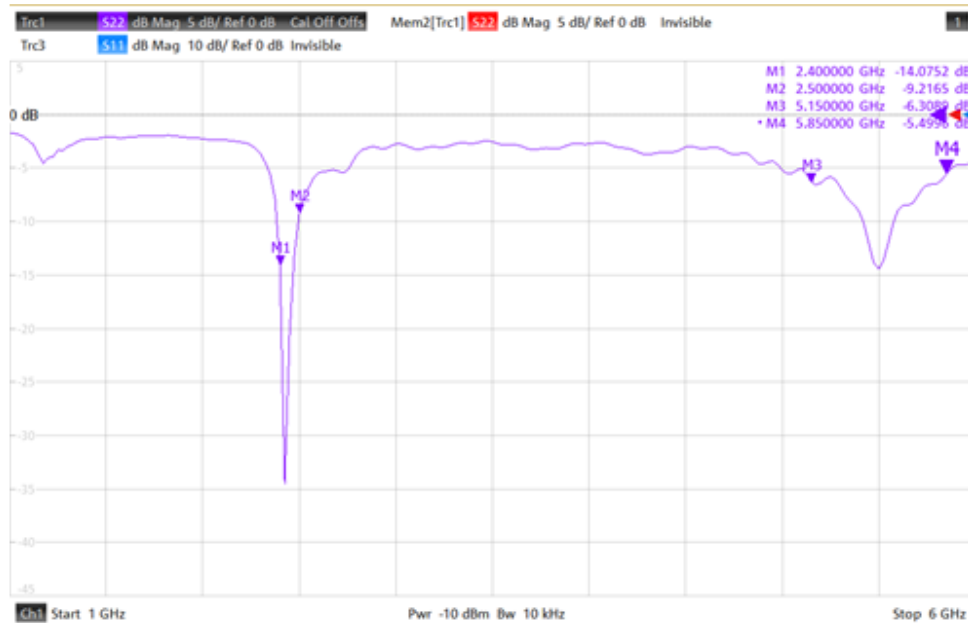
WLAN Antenna
(2.4-2.5GHz, 5.15-5.85GHz)



BT / WLAN Antenna
(2.4-2.5GHz, 5.15-5.85GHz)

2. Test Result

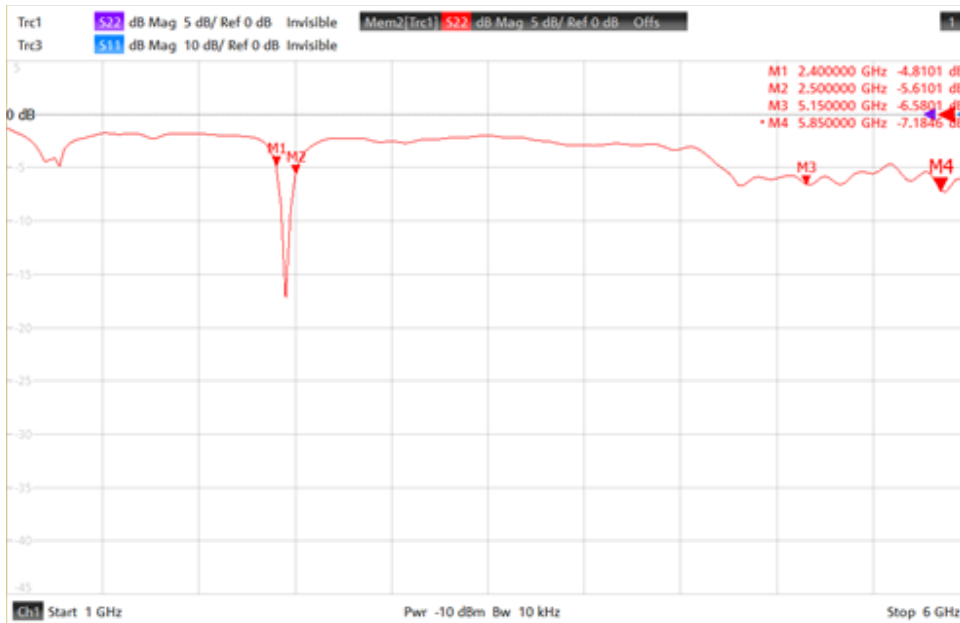
BT WLAN Antenna



Efficiency

BT Antenna after tuning			
Frequency (MHz)	Peak Gain (dB)	Efficiency (dB)	Efficiency (%)
2400	-3.66	-7.1	22%
2420	-3.29	-7.1	22%
2440	-3.44	-7.1	22%
2460	-3.45	-6.9	23%
2480	-3.53	-7.1	22%
2500	-3.56	-7.3	21%
5150	-2.66	-7.5	20%
5250	-2.23	-7.3	21%
5350	-1.19	-6.3	26%
5450	1.2	-5.5	32%
5470	1.13	-5.5	31%
5550	0.13	-6.3	26%
5650	-1.23	-7.0	22%
5725	-0.13	-7.3	21%
5750	-0.44	-7.2	22%
5800	-0.18	-6.8	24%
5850	0.66	-6.7	24%

WLAN Antenna

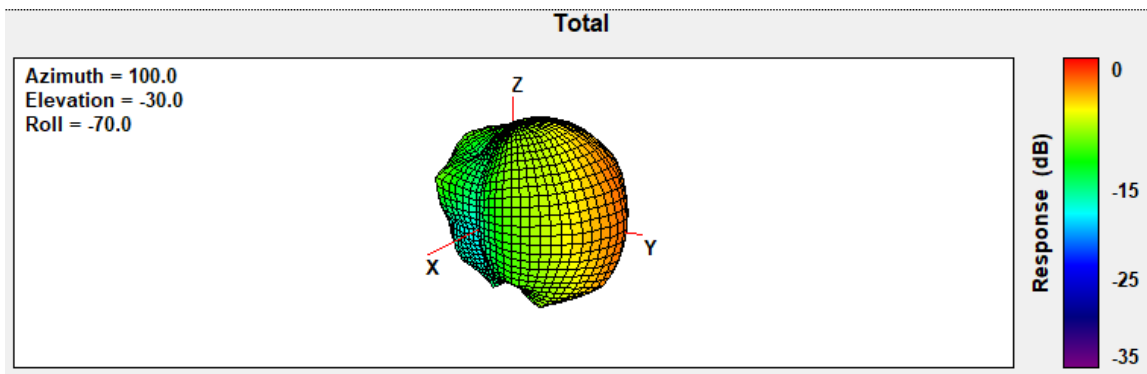
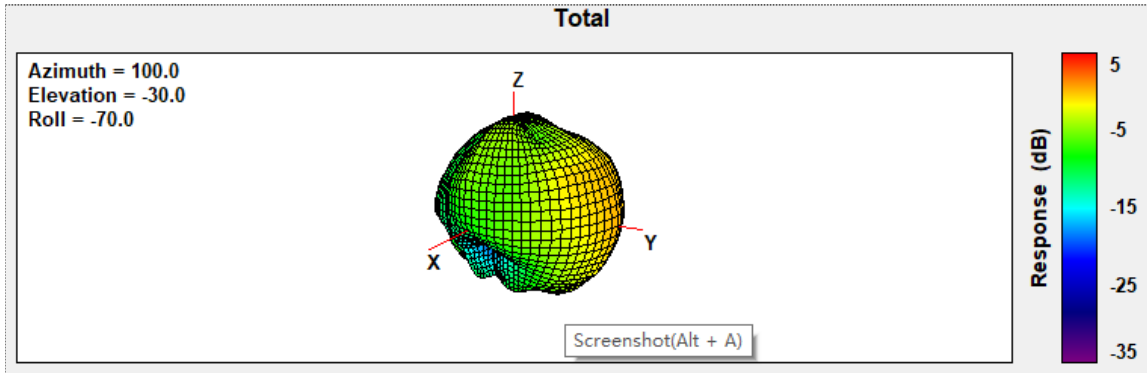


Efficiency

WLAN 2.4G 5G Ant			
Frequency (MHz)	Peak Gain (dB)	Efficiency (dB)	Efficiency (%)
2400	-6.33	-10.2	11%
2420	-4.97	-9.4	13%
2440	-4.08	-8.6	15%
2460	-4.91	-8.8	15%
2480	-5.89	-9.2	13%
2500	-7.49	-10.0	11%
5150	1.53	-6.6	24%
5250	0.75	-6.7	24%
5350	1.31	-6.1	27%
5450	1.57	-6.0	28%
5470	2.09	-5.6	31%
5550	1.09	-6.3	26%
5650	1.24	-5.5	32%
5725	0.85	-5.6	31%
5750	0.54	-5.8	30%
5800	0.03	-6.6	24%
5850	0.16	-6.4	26%

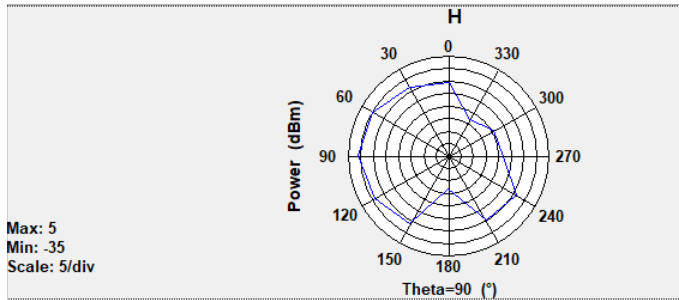
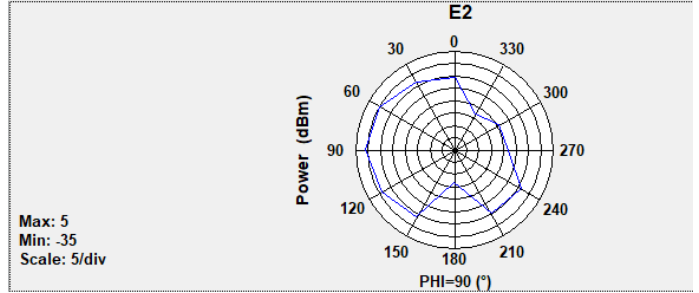
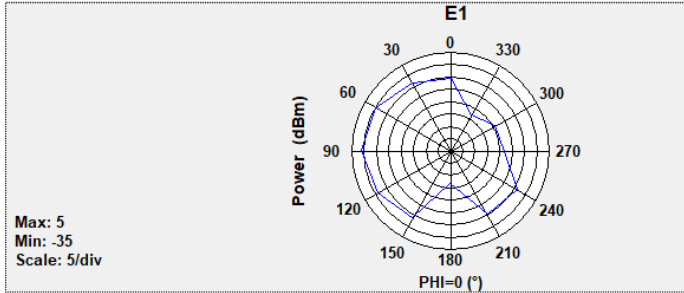
3. Radiation Pattern

BT WLAN Antenna

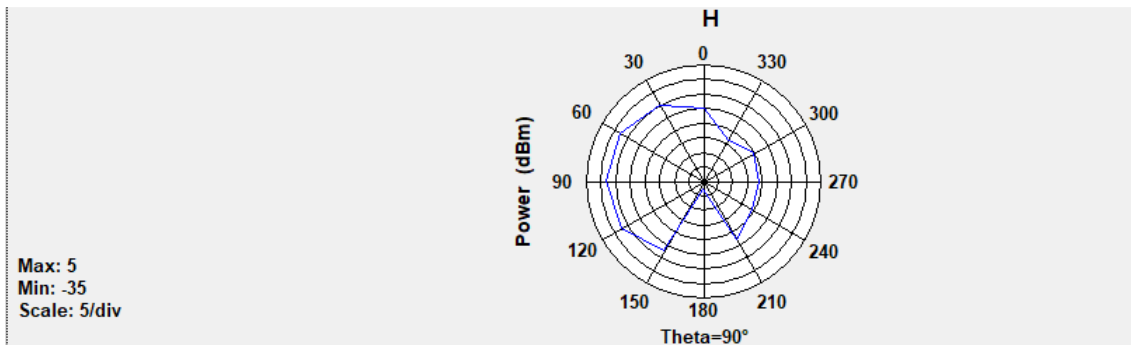
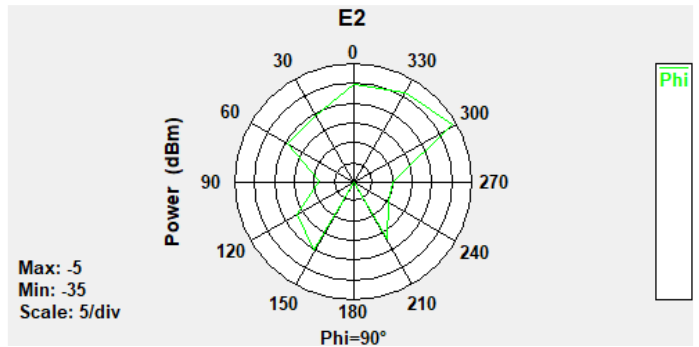
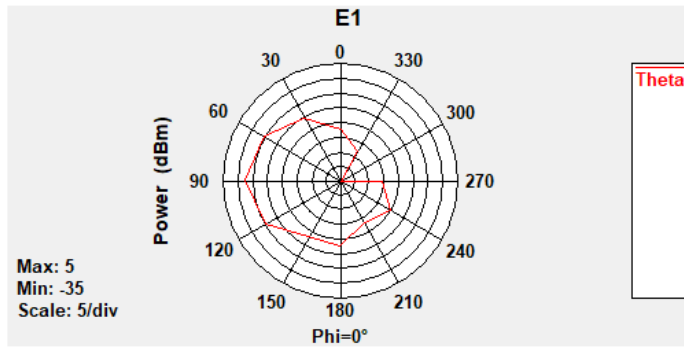




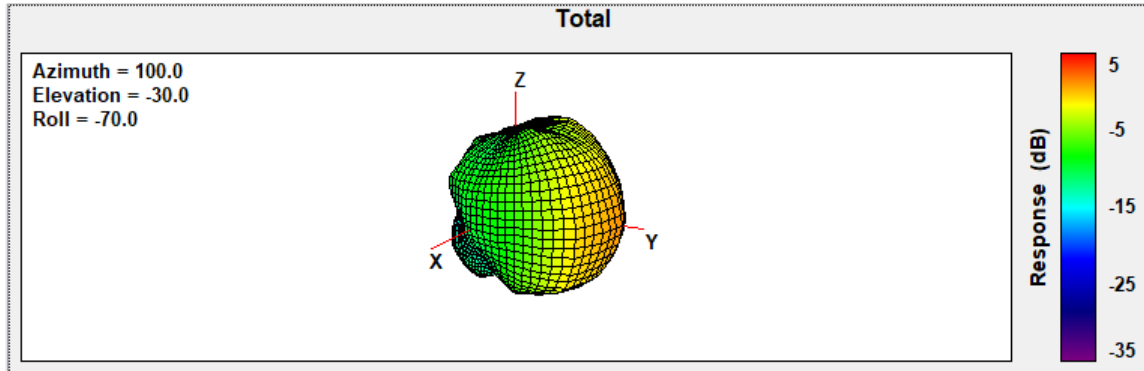
BT WLAN Antenna _ 2450MHz



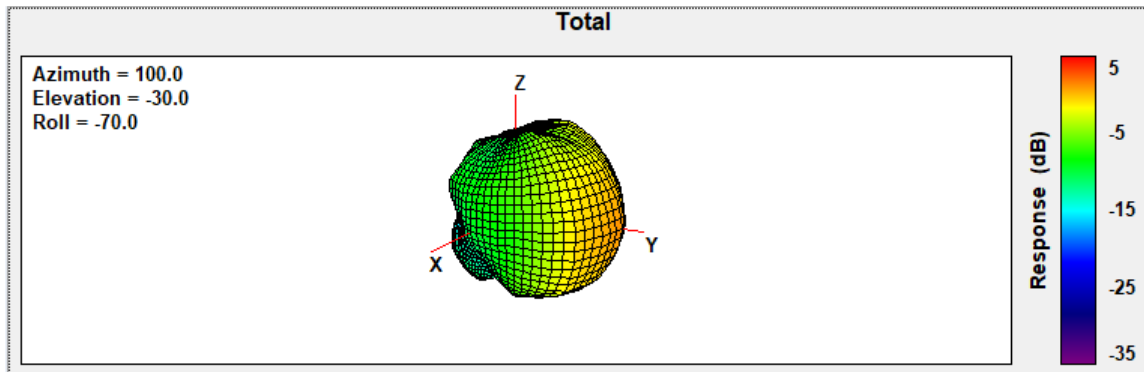
BT WLAN Antenna _ 5550MHz



WLAN Antenna



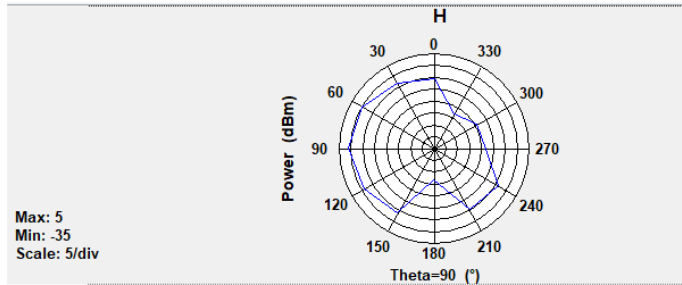
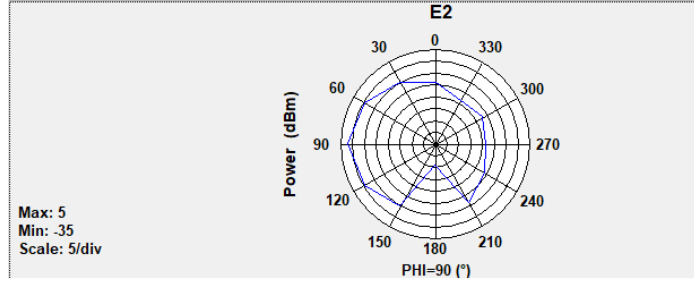
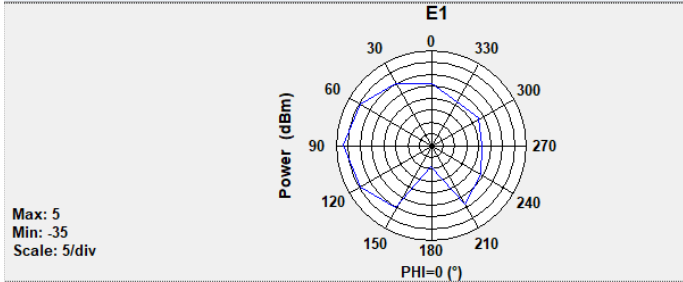
2450MHz



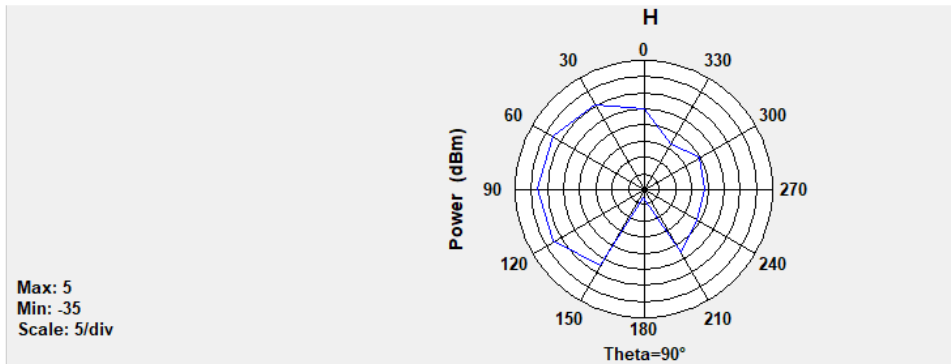
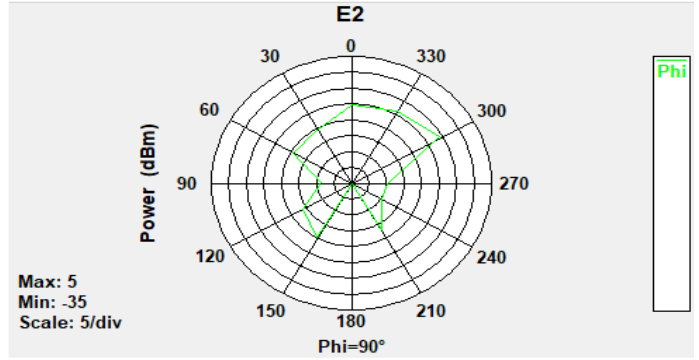
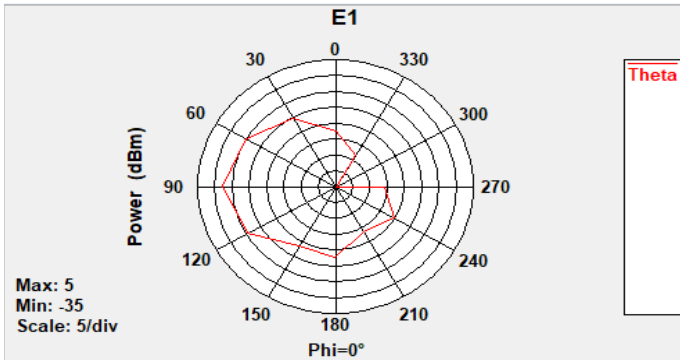
5550MHz



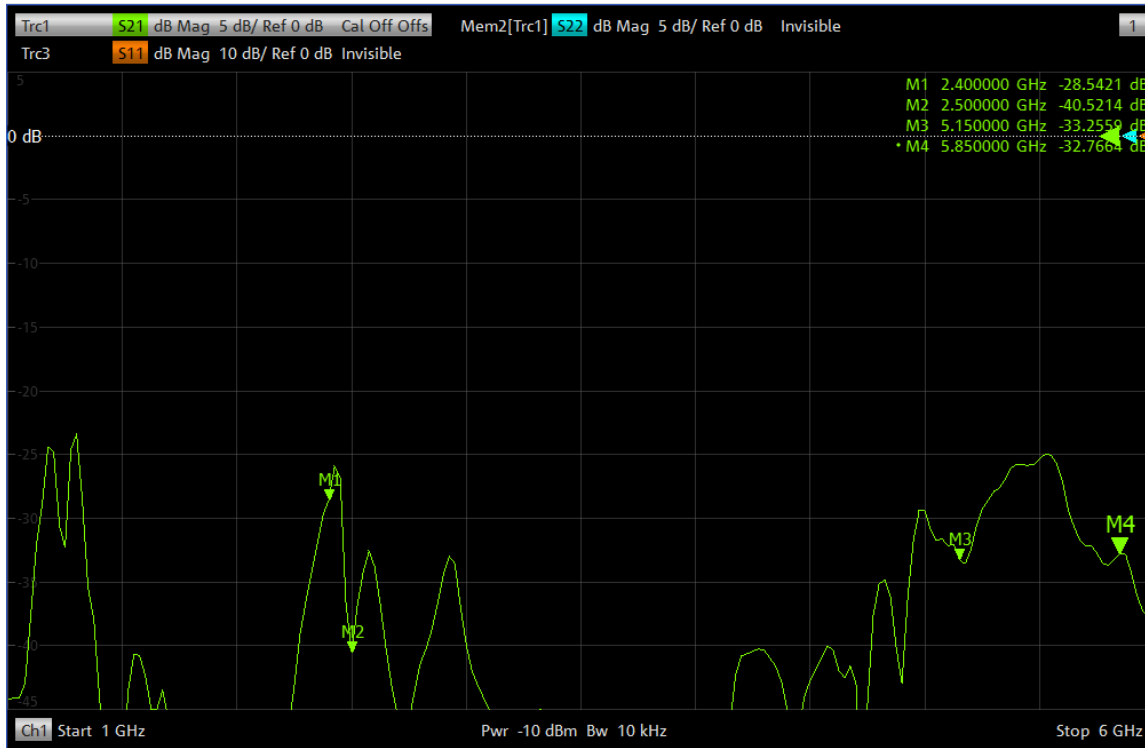
WLAN Antenna _ 2450MHz



WLAN Antenna _ 5550MH



4. Isolation



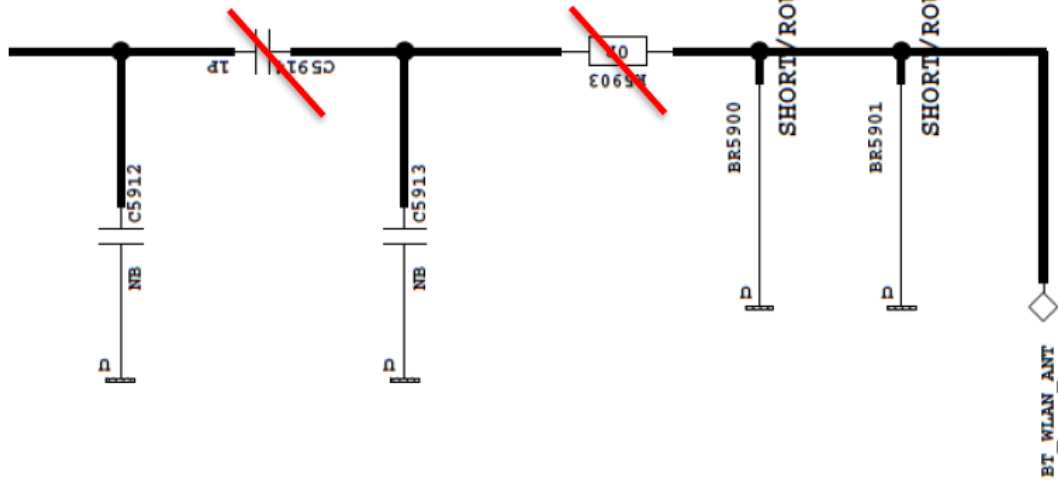
**Better than -25dB
for all band**

5. Matching

BT/WLAN Antenna

Change C5914 to 0ohm

Change R5903 to 1pf



WLAN Antenna

Change C5915 to 0ohm

Change R5904 to 1pf

