

FTC164 (M1) antenna test report

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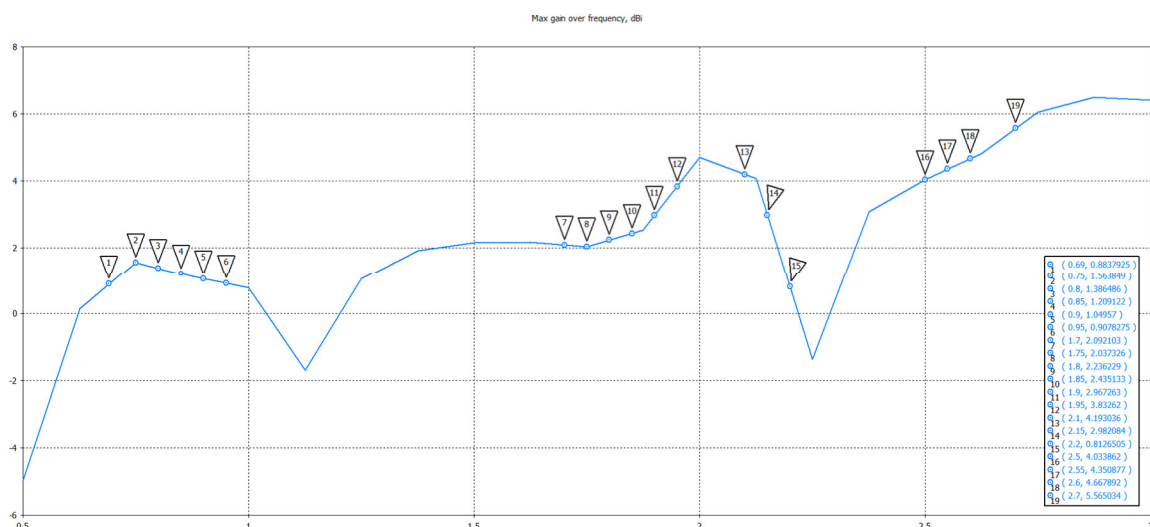


General information about antenna:

- Supported LTE-FDD bands: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85
- Supported BLE bands: LE 1M PHY/LE 2M PHY
- Peak gain: 5.56 dBi;
- Polarization: Linear;
- Azimuth Beam width: Omni-directional
- Impedance: 50 Ohm
- Operating temperature range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- RoHS compliant.

Antenna parameters:

Gain of LTE antenna:



Frequency Range, MHz	Peak gain, dBi	Max VSWR (in BW)
B28	1.56	≤ 6.0
B12	1.42	≤ 6.0

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B85	1.42	≤ 6.0
B14	1.53	≤ 5.0
B13	1.56	≤ 5.0
B18	1.31	≤ 5.0
B19	1.28	≤ 5.0
B15	1.2	≤ 5.0
B20	1.38	≤ 5.0
B25	3.83	≤ 5.0
B26	1.38	≤ 5.0
B27	1.38	≤ 5.0
B5	1.38	≤ 5.0
B8	1.21	≤ 7.0
B3	2.41	≤ 5.0
B66	2.43	≤ 5.0
B2	3.83	≤ 5.0
B4	4.19	≤ 5.0
B1	4.21	≤ 5.0

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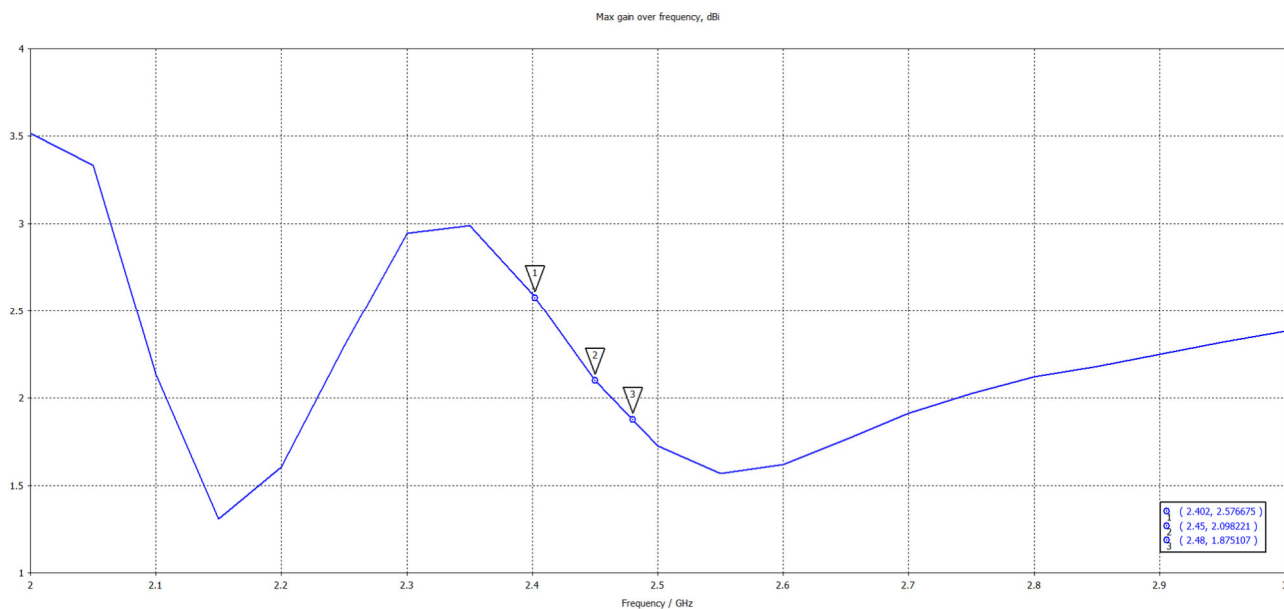
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Gain for BLE antenna:



Frequency Range, MHz	Peak gain, dBi	Max VSWR (in BW)
2402	2.57	≤ 5.0
2450	2.09	≤ 5.0
2480	1.87	≤ 5.0

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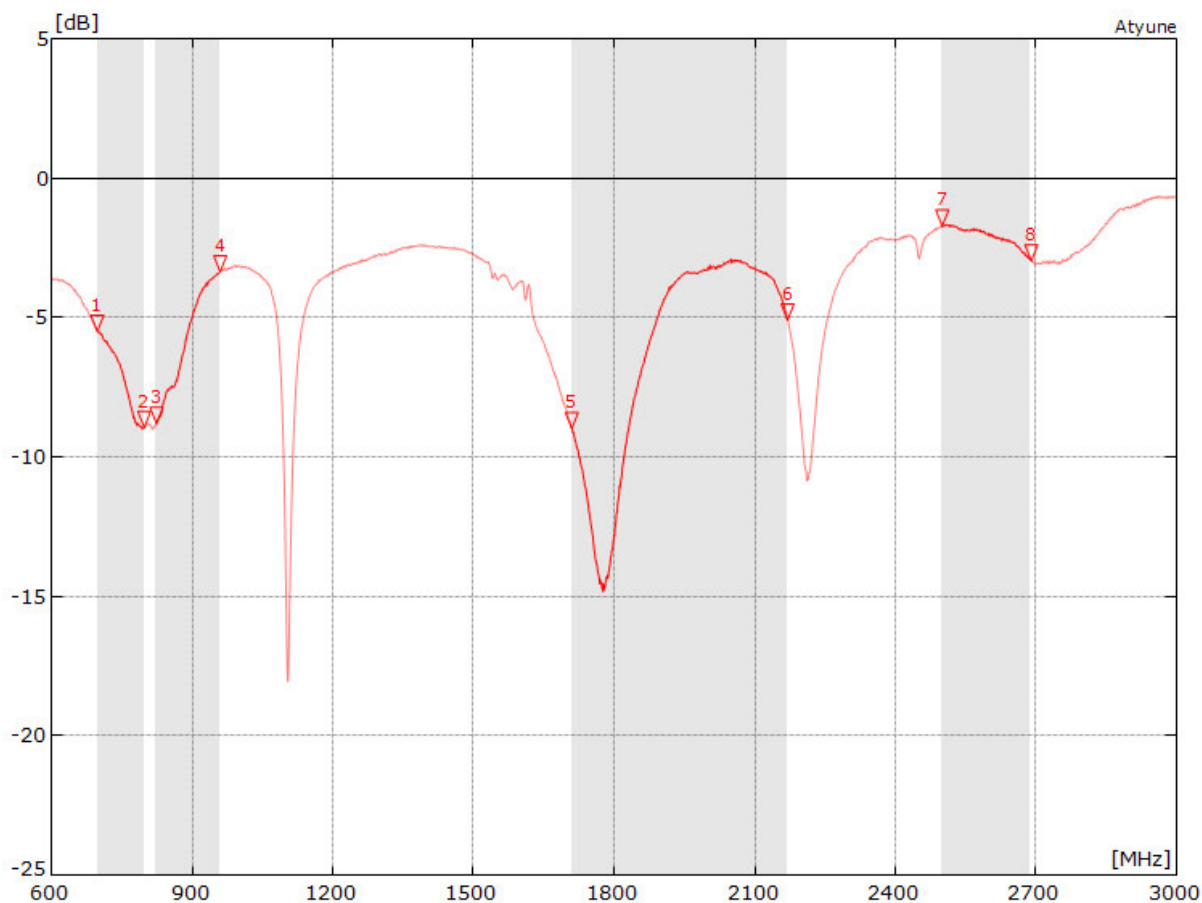
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LTE antenna return loss:



MARKERS:	MHz	dB	MHz	dB	MHz	dB	MHz	dB
FTX164-24_LTE.s1p - S11								
—	1: 698	-5.49	3: 824	-8.80	5: 1710	-8.98	7: 2500	-1.72
	2: 798	-8.94	4: 960	-3.36	6: 2170	-5.09	8: 2690	-2.97

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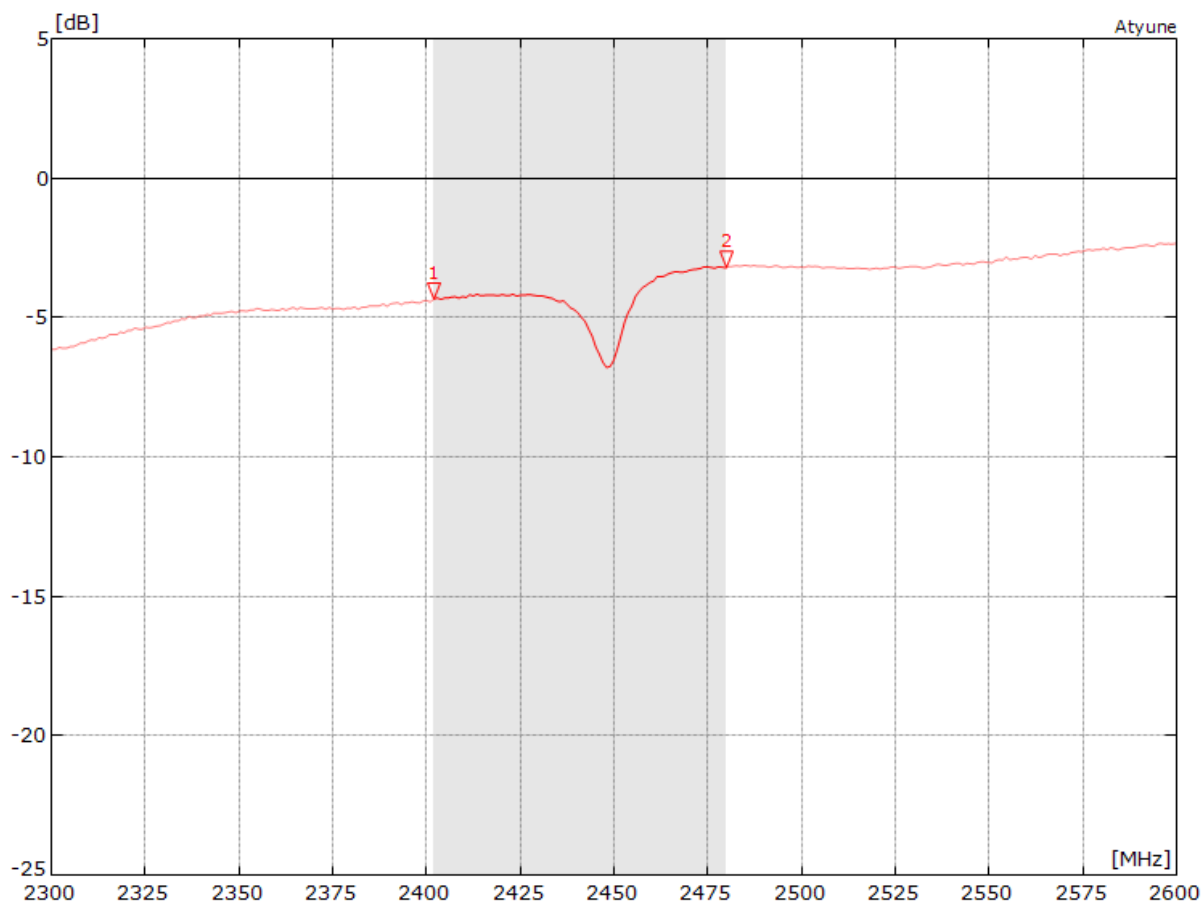
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BLE antenna return loss



MARKERS: MHz		dB
FTX164-24_BT.s1p - S11		
1: 2402	-4.33	
2: 2480	-3.20	

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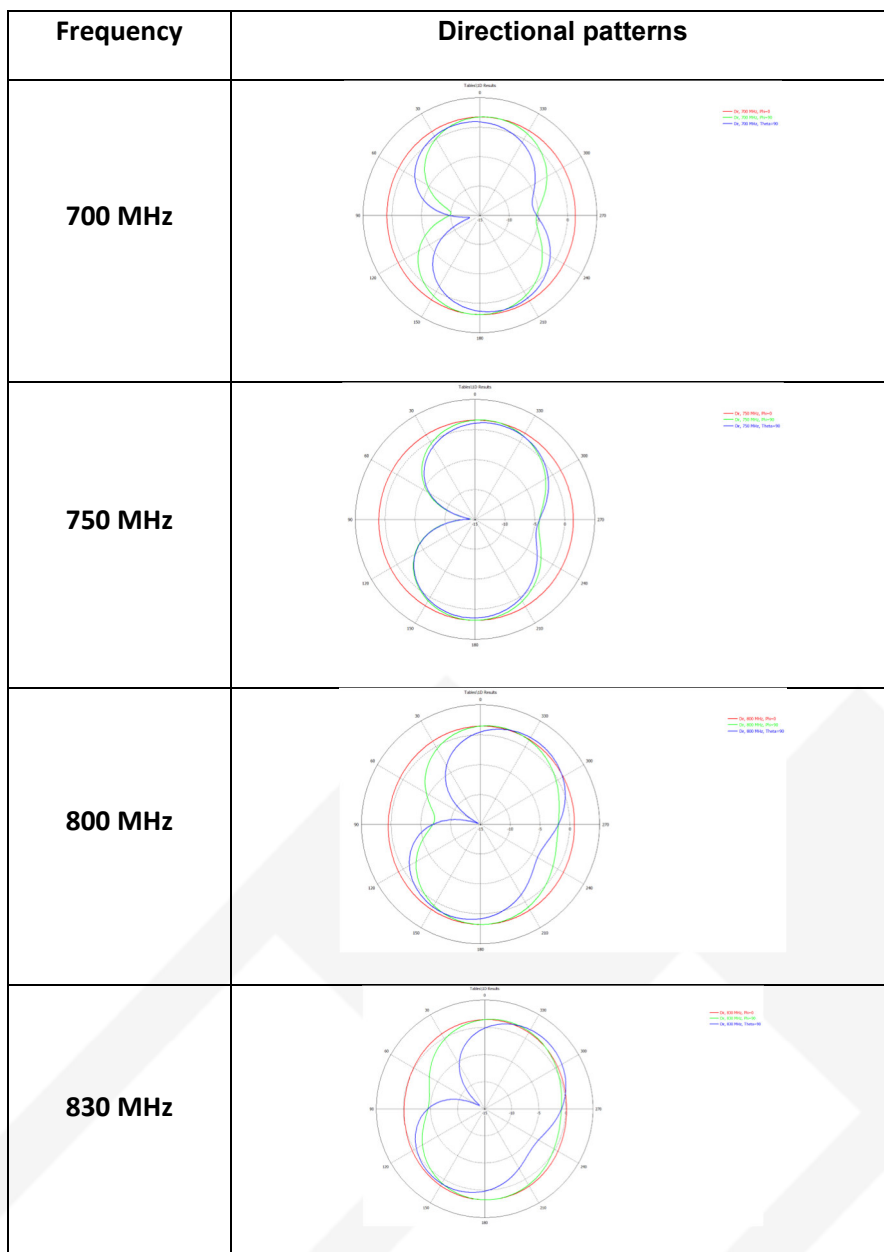
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LTE antenna radiation lobe:



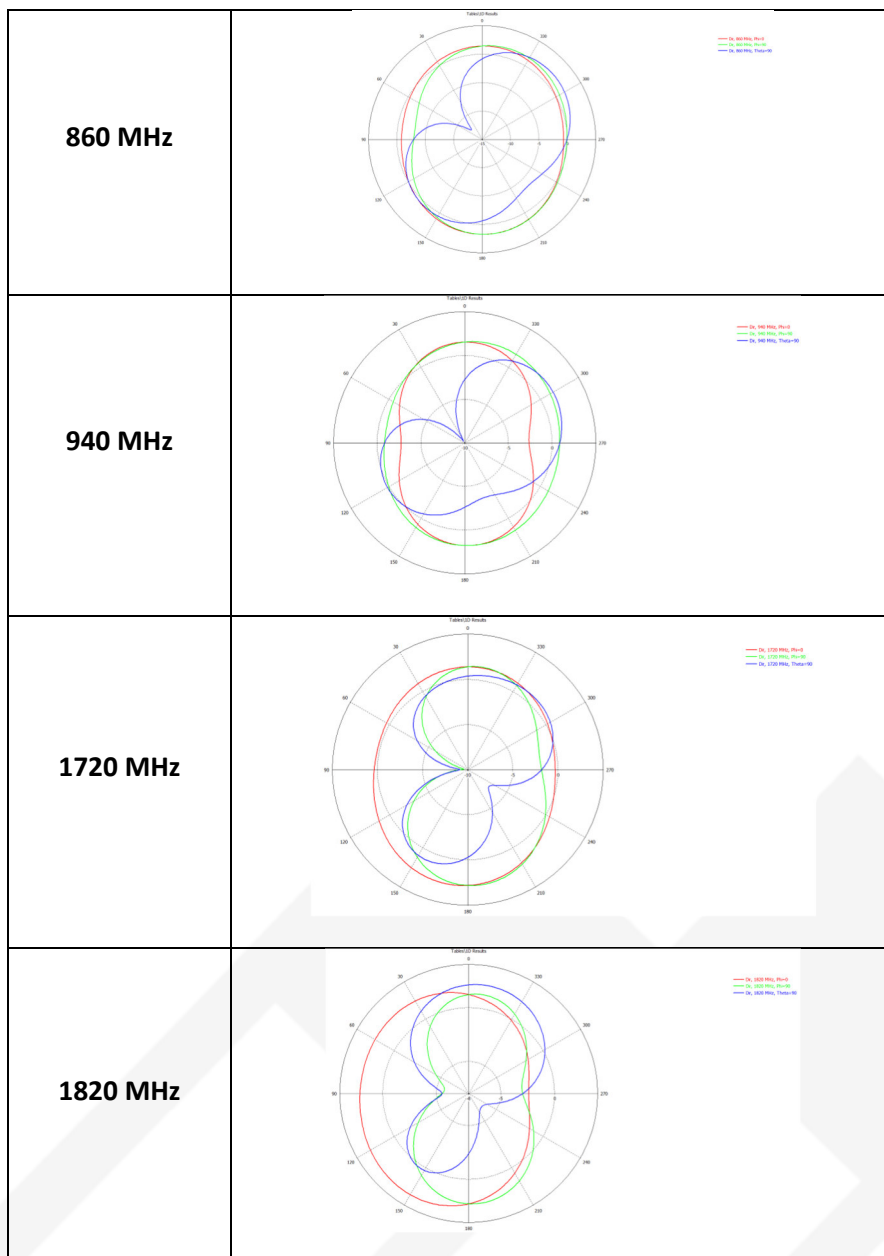
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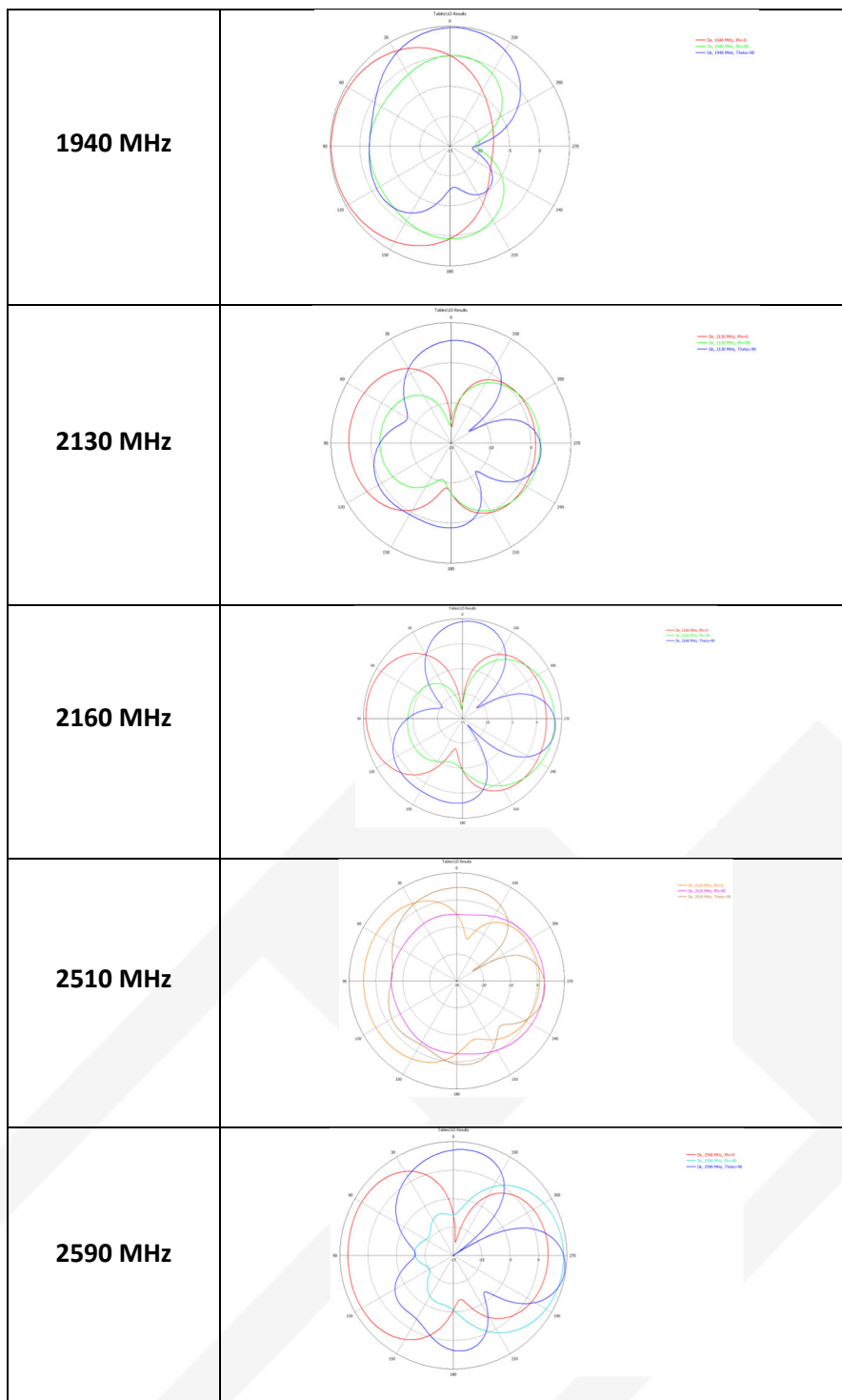
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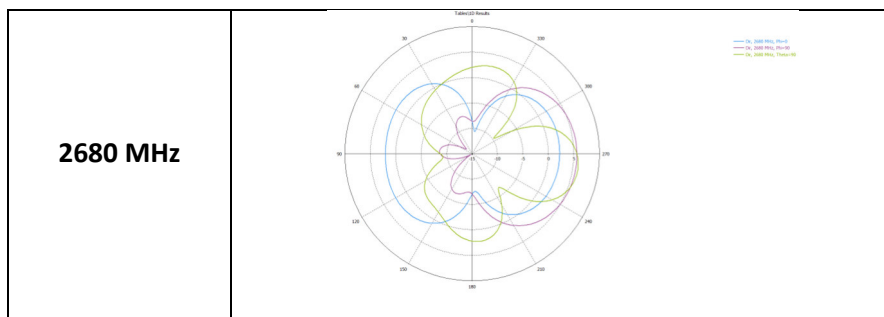
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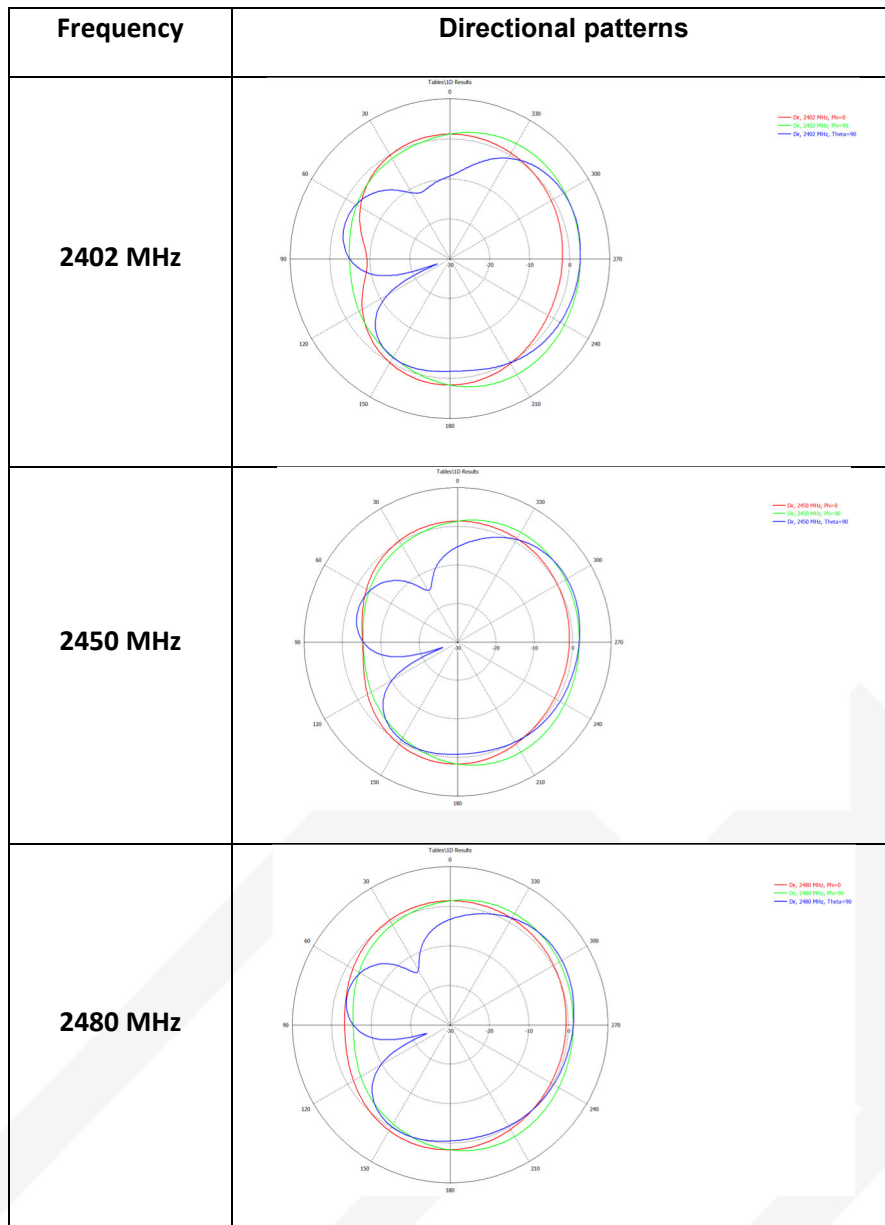
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BLE antenna radiation lobe:



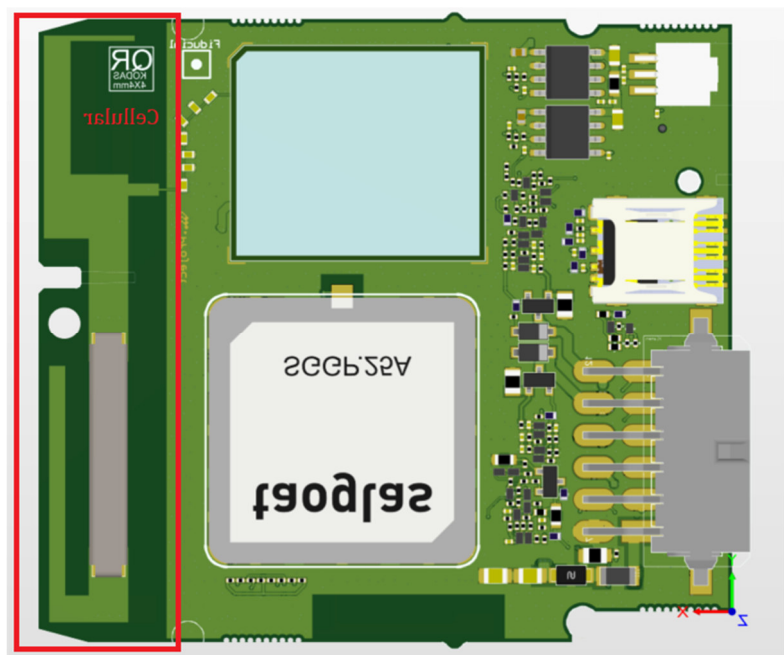
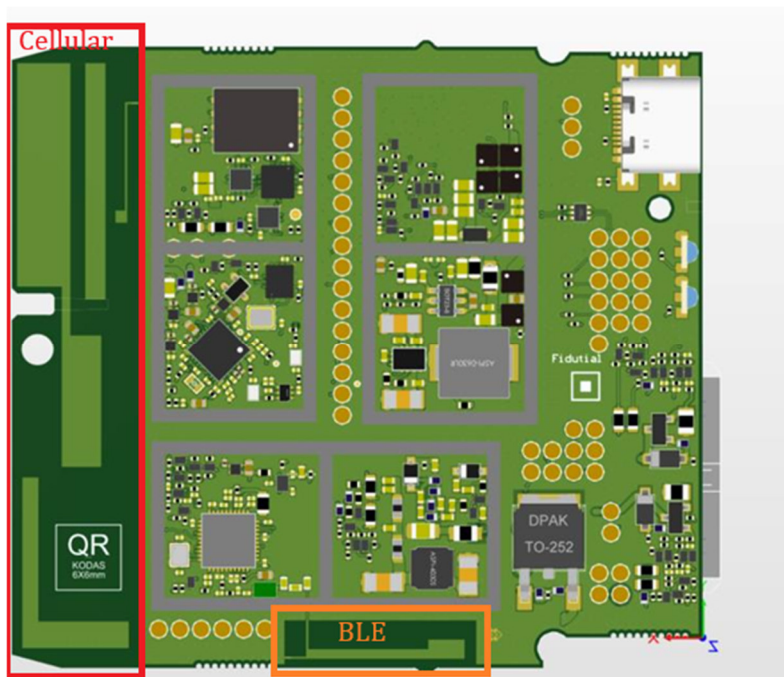
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