

SPECIFICATION

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G/5.8 directional antenna

Product specification

Customer		Frequency	2400——2500MHz 5150——5835MHZ
R F design	XIAO BIN	Version	
Technical director	ANDY	date	2024-04-16

Customer confirmation:

Whether the assembly meets your company's requirements: ☐OK ☐NG

Confidentiality requirements

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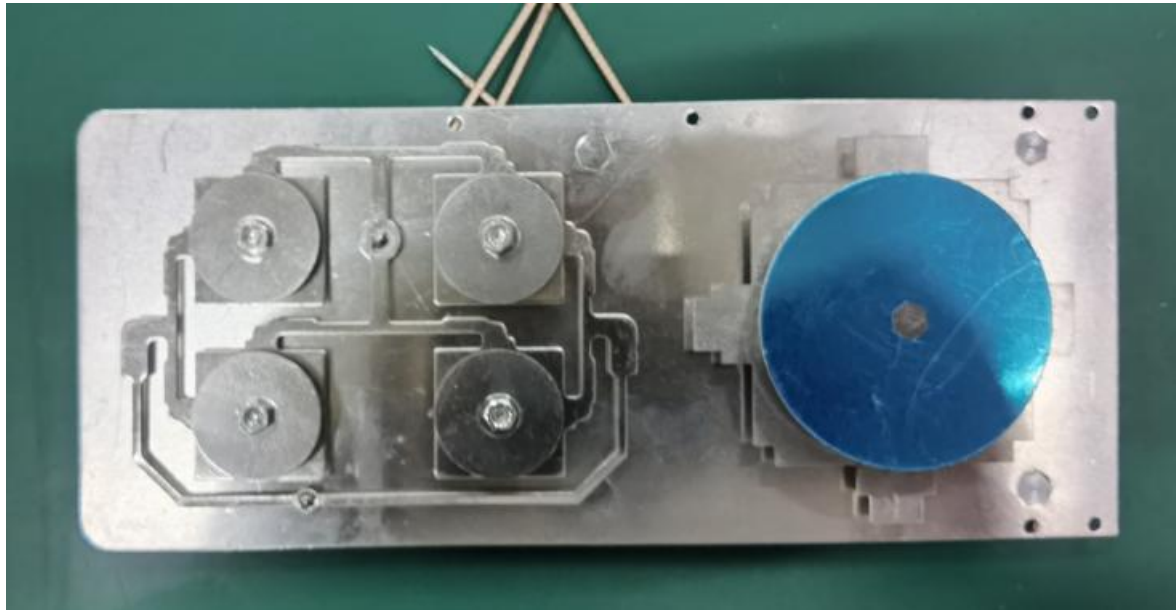
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1、Product pictures



2、Product parameters

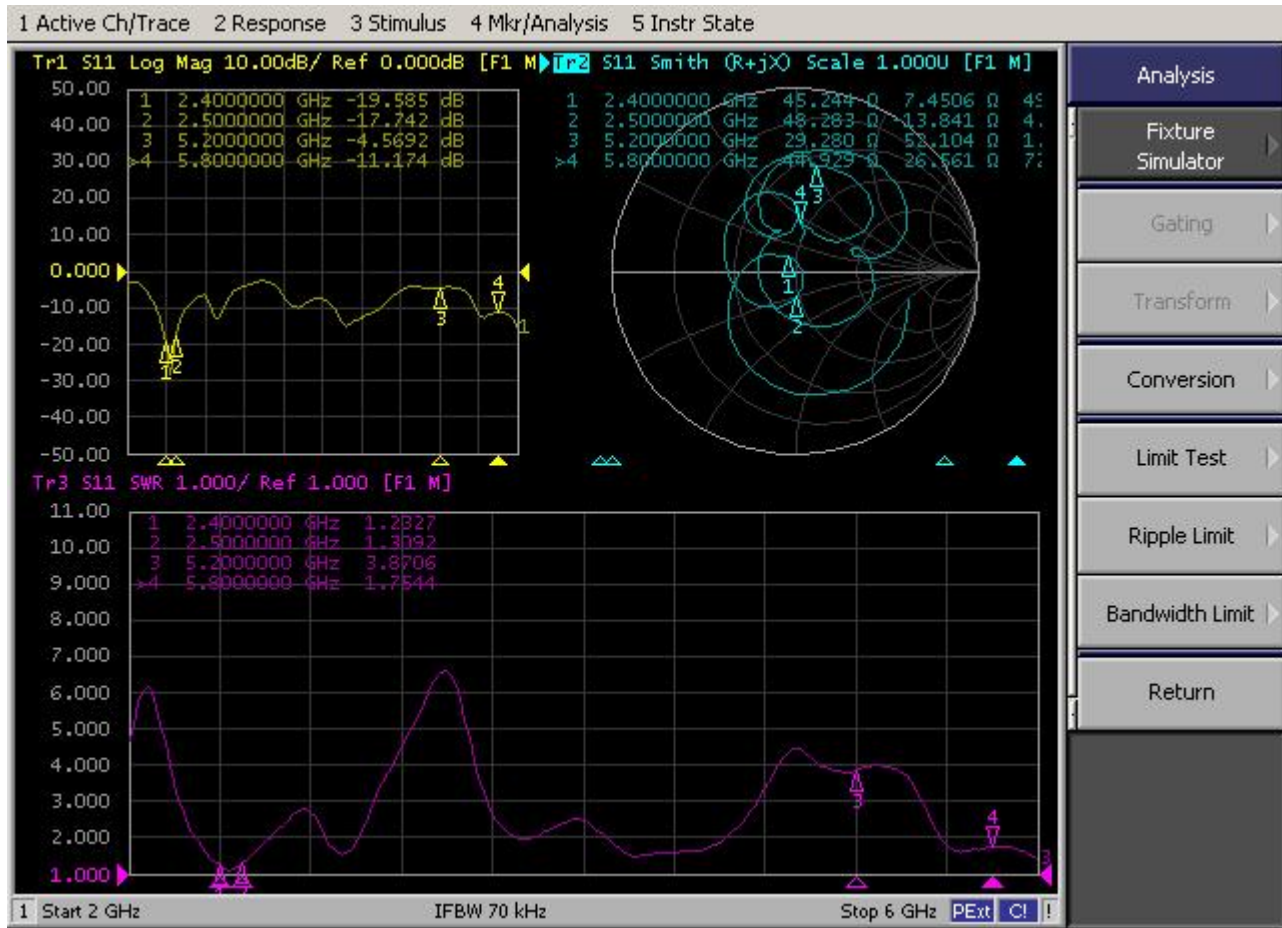
Product testing parameters			
产品名称(Name)	2.4G-5.8 Antenna	产品型号(Model Type)	FX-2.4/5.8-LJB-WL C
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHz 5150-5835MHz	极化方式 (Polarization)	vertical
输入阻抗(Impedance)	50 Ω	辐 射 方 向 (Radiation direction)	directional
驻波比 (VSWR)	≤ 3.0	功率容量(Power)	50W
增益(Gain)	7.97/7.29dBi	带宽 (Bandwidth)	100/685MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	81.5*195 $\pm$ 2mm	外壳颜色(ANT Color)	silvery
连接器型号 (Connector)	welding	引线长度(Cable Length)	100 $\pm$ 3 mm
外壳材料 Radome Material	aluminium		
工作温度 (Working Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C	存放温度 (Limit Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C

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3. VSWR, Return loss and Smith data



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4、Antenna test data (gain, efficiency, apple chart)

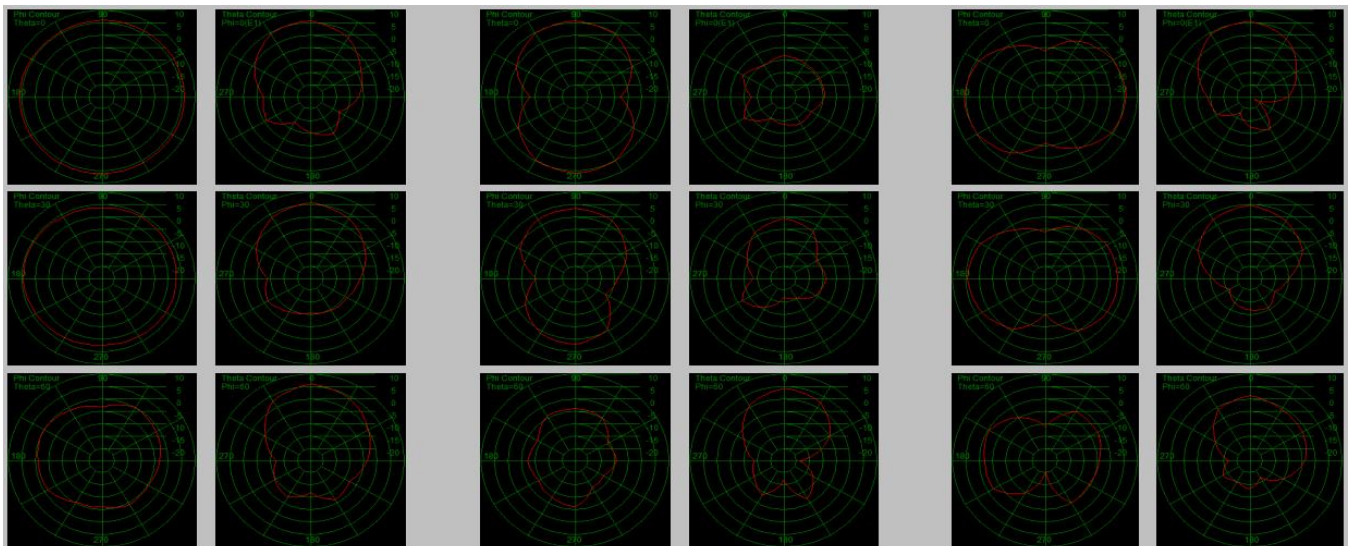
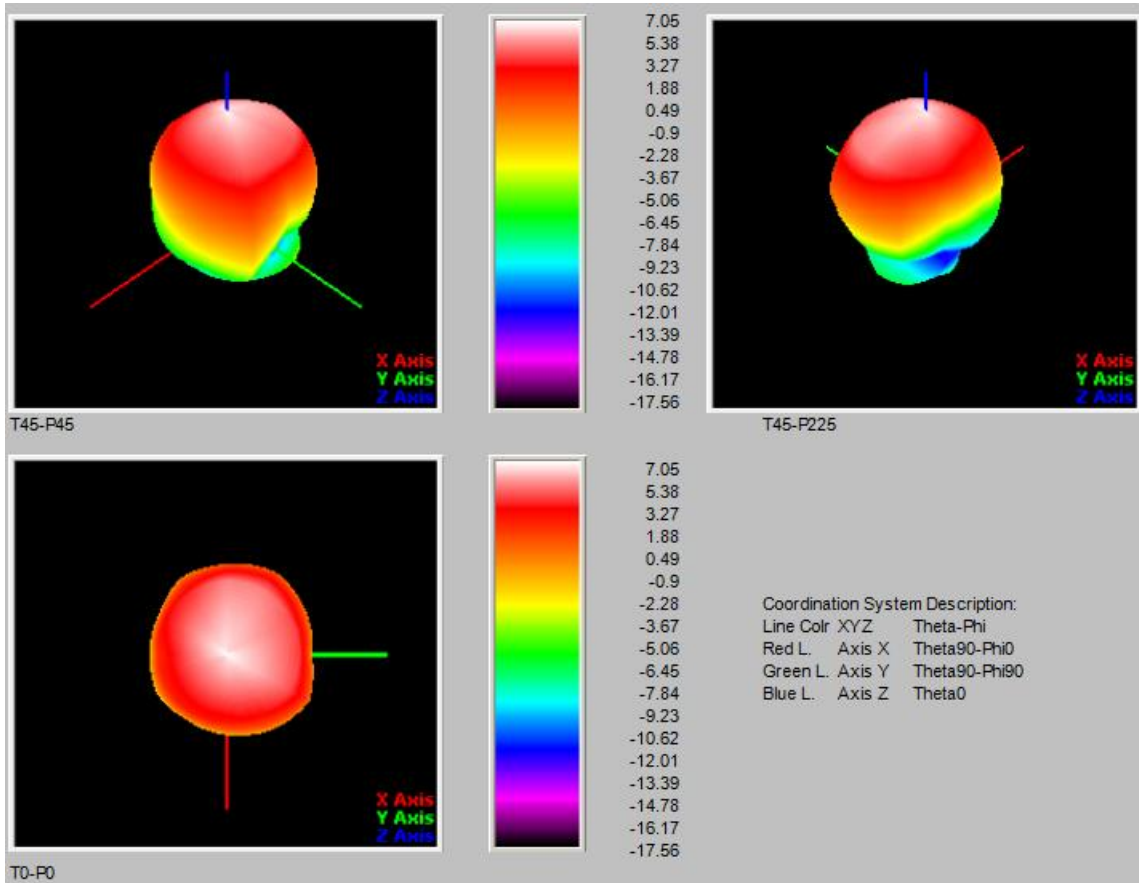
Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	2400.0	6.37	57.0%
<u>2</u>	2410.0	6.28	56.4%
<u>3</u>	2420.0	7.05	61.4%
<u>4</u>	2430.0	7.97	59.0%
<u>5</u>	2440.0	7.69	61.9%
<u>6</u>	2450.0	7.71	62.1%
<u>7</u>	2460.0	7.54	61.1%
<u>8</u>	2470.0	7.40	58.3%
<u>9</u>	2480.0	7.96	55.6%
<u>10</u>	2490.0	7.94	57.4%
<u>11</u>	2500.0	7.02	56.5%

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	5100.0	5.83	52.5%
<u>2</u>	5135.0	6.57	53.0%
<u>3</u>	5170.0	6.30	56.4%
<u>4</u>	5205.0	6.71	56.7%
<u>5</u>	5240.0	6.66	55.8%
<u>6</u>	5275.0	6.94	56.5%
<u>7</u>	5310.0	6.34	55.4%
<u>8</u>	5345.0	6.08	55.5%
<u>9</u>	5380.0	6.71	54.1%
<u>10</u>	5415.0	7.29	59.0%
<u>11</u>	5450.0	7.11	60.2%
<u>12</u>	5485.0	6.69	59.7%
<u>13</u>	5520.0	6.22	59.5%
<u>14</u>	5555.0	6.16	58.3%
<u>15</u>	5590.0	6.86	52.0%
<u>16</u>	5625.0	6.13	55.3%
<u>17</u>	5660.0	6.57	52.4%
<u>18</u>	5695.0	6.49	52.9%
<u>19</u>	5730.0	6.39	52.1%
<u>20</u>	5765.0	6.58	51.8%
<u>21</u>	5800.0	5.73	51.7%

Confidentiality requirements

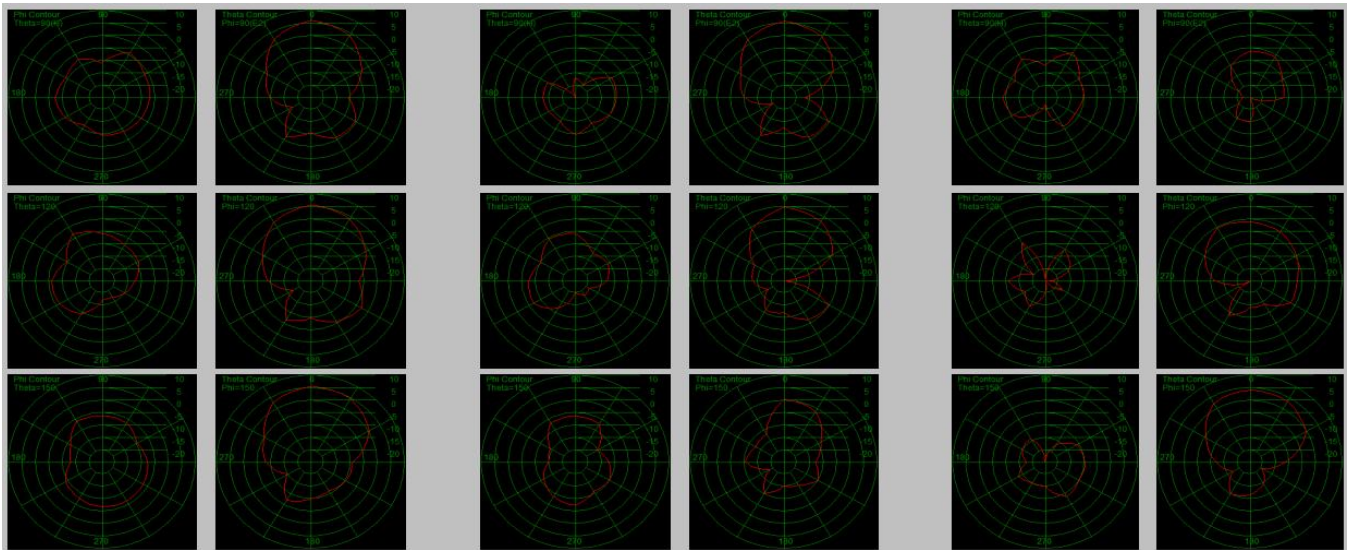
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Passive -Freq2420.00MHZ

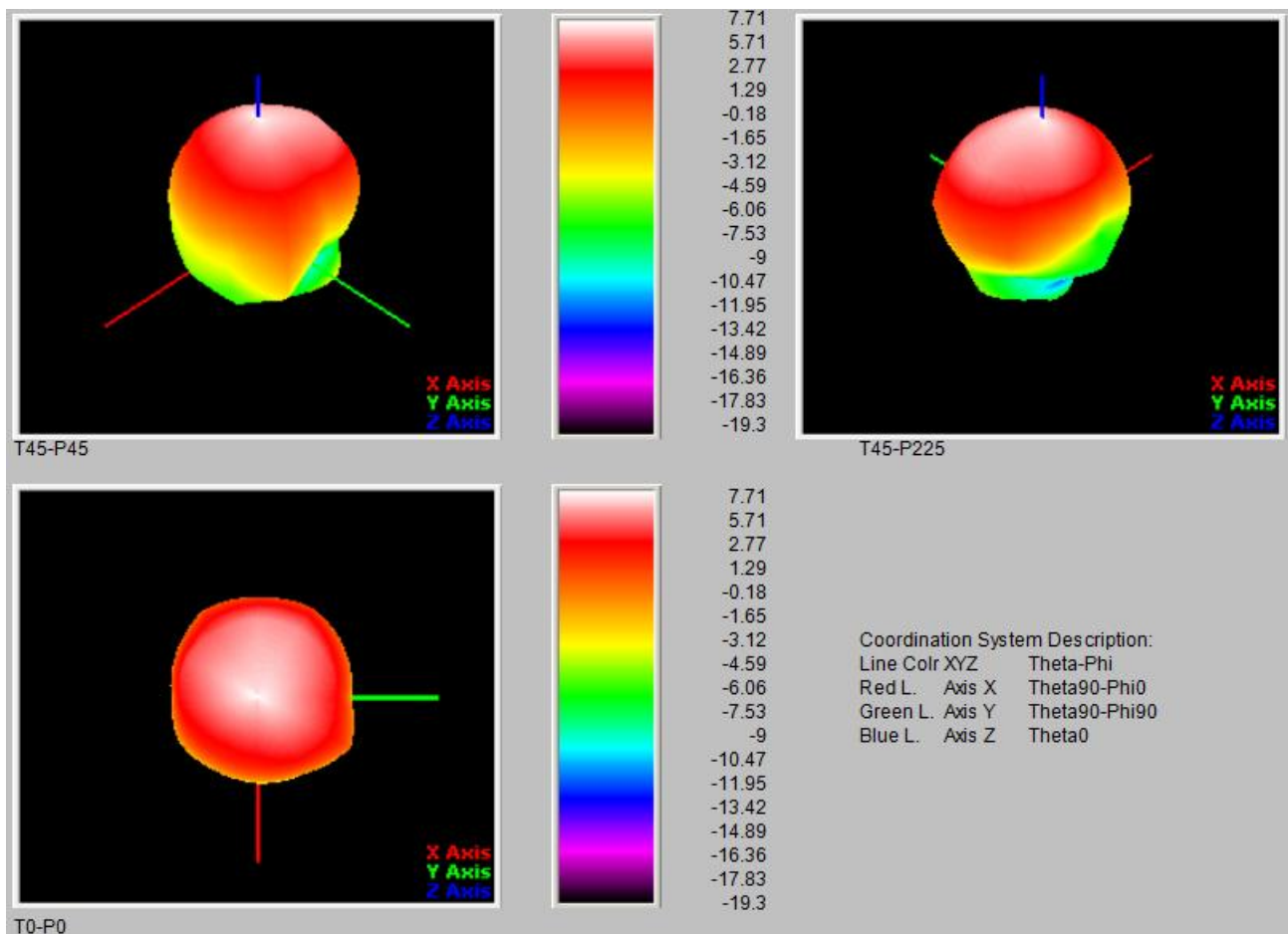


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Passive -Freq2450.00MHZ

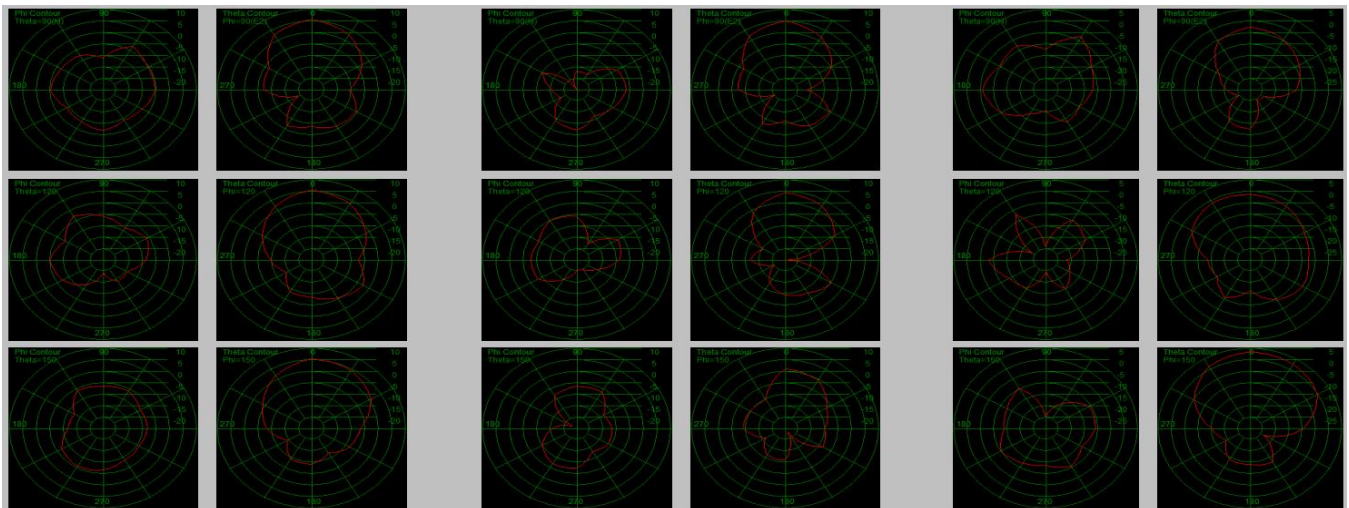
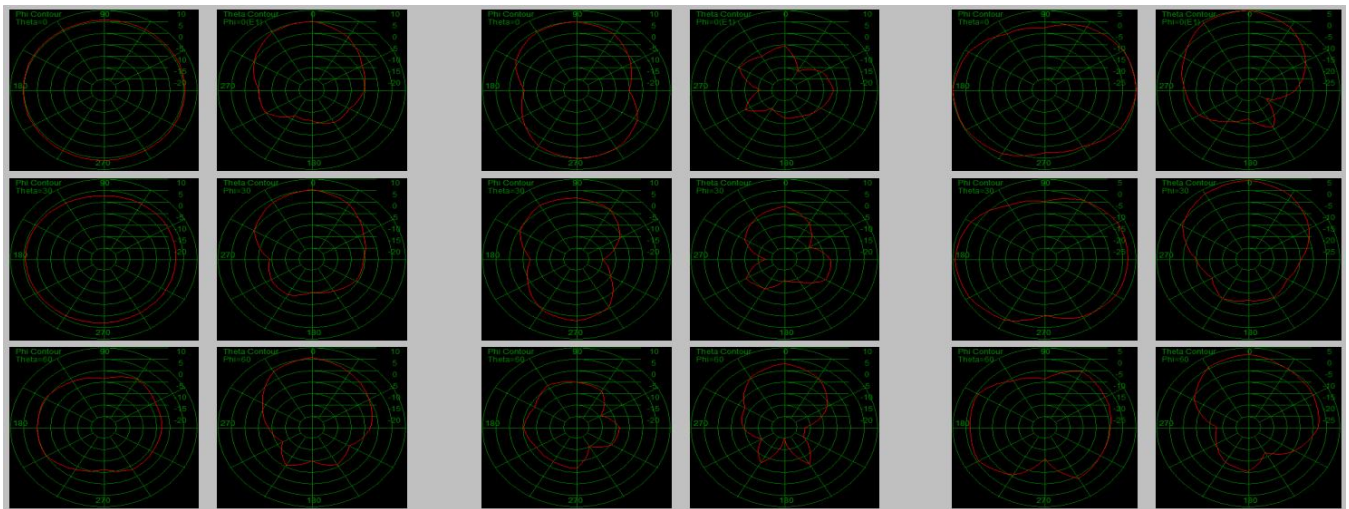


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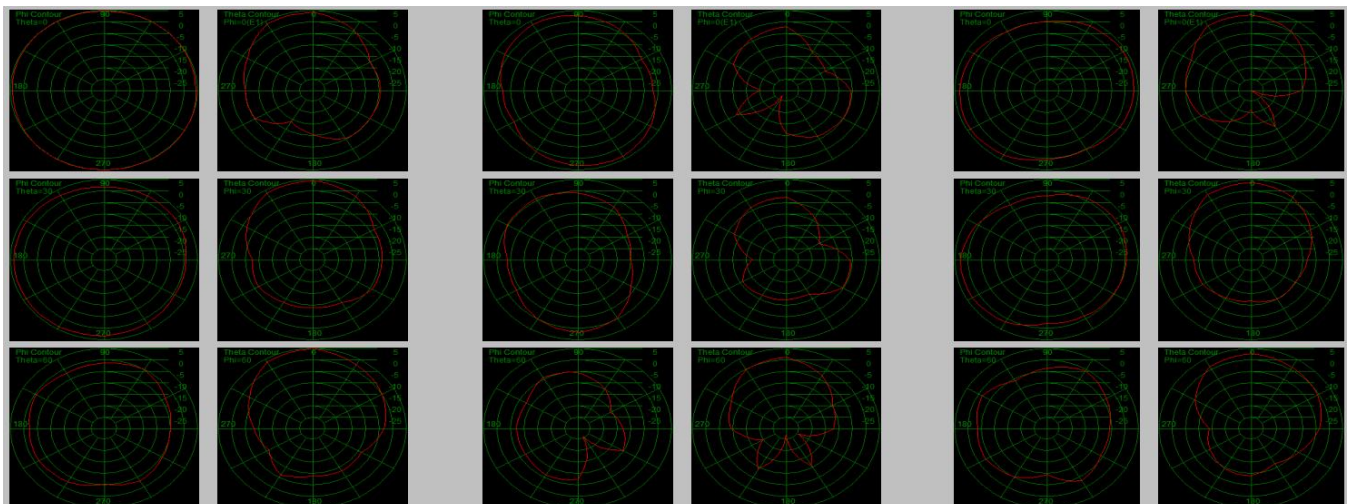
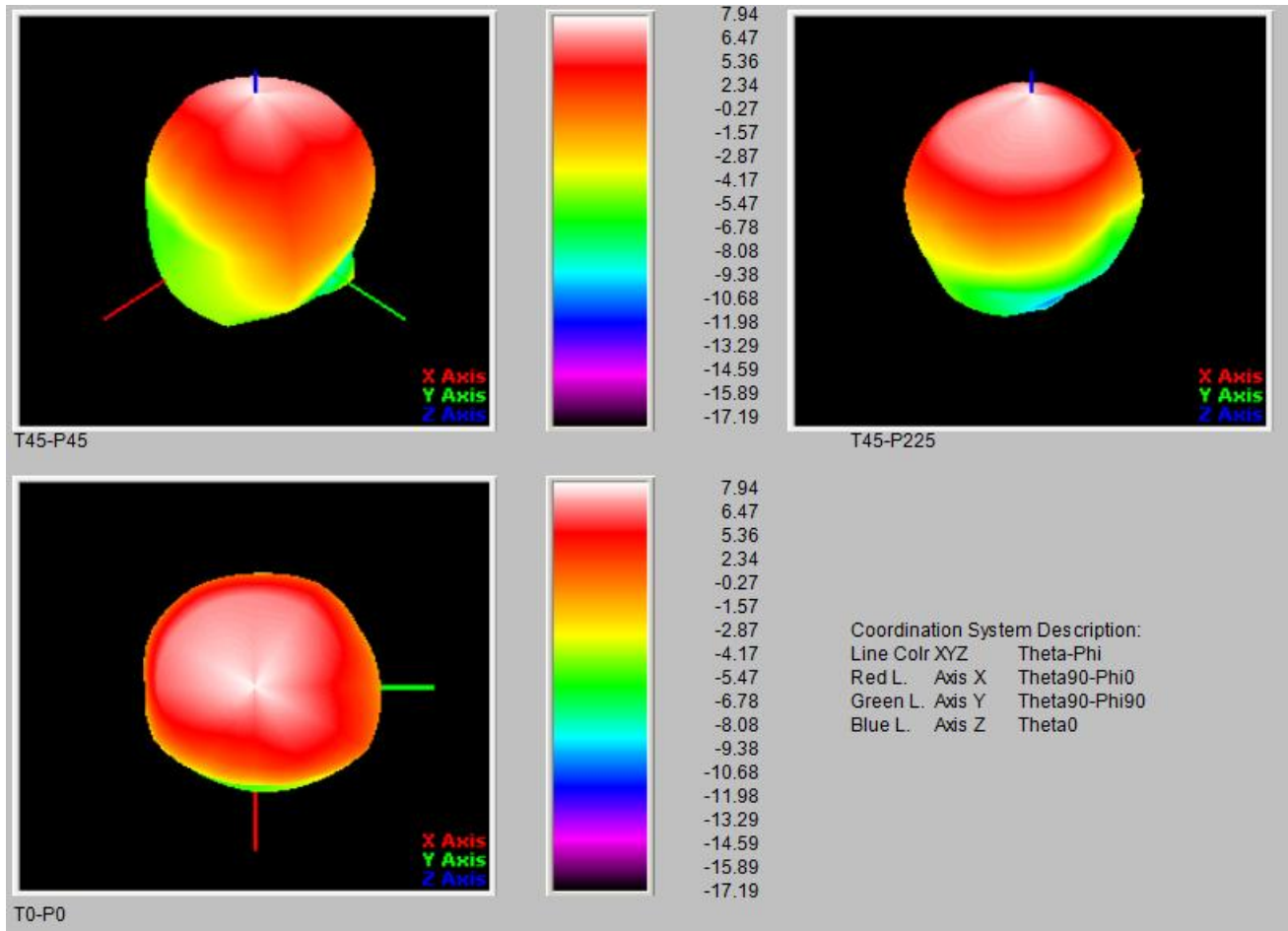
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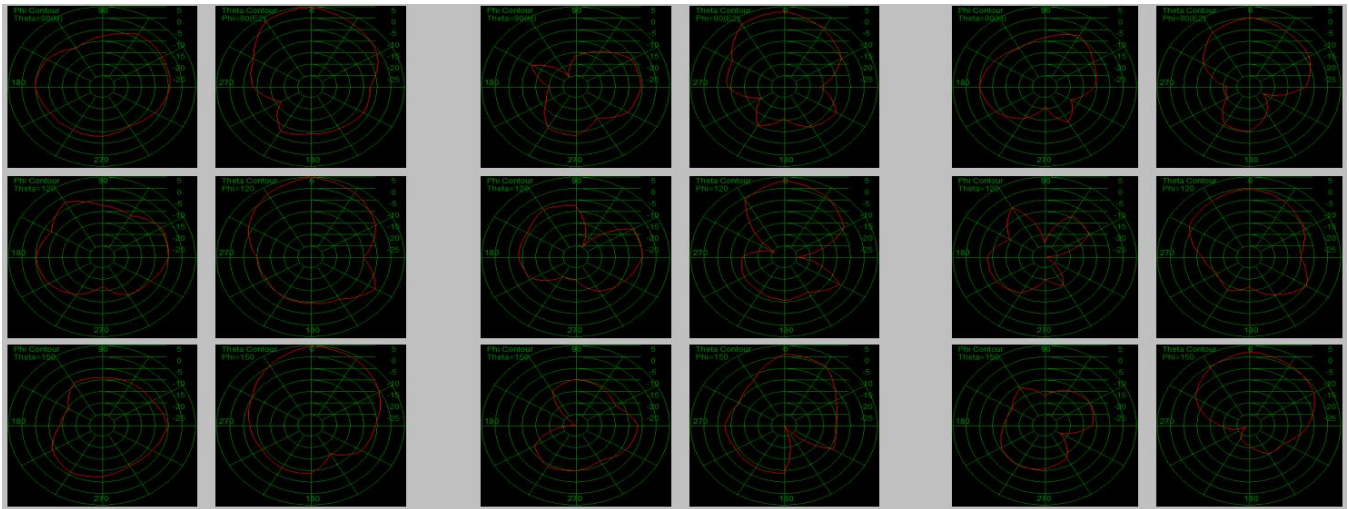
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Passive -Freq2490.00MHZ

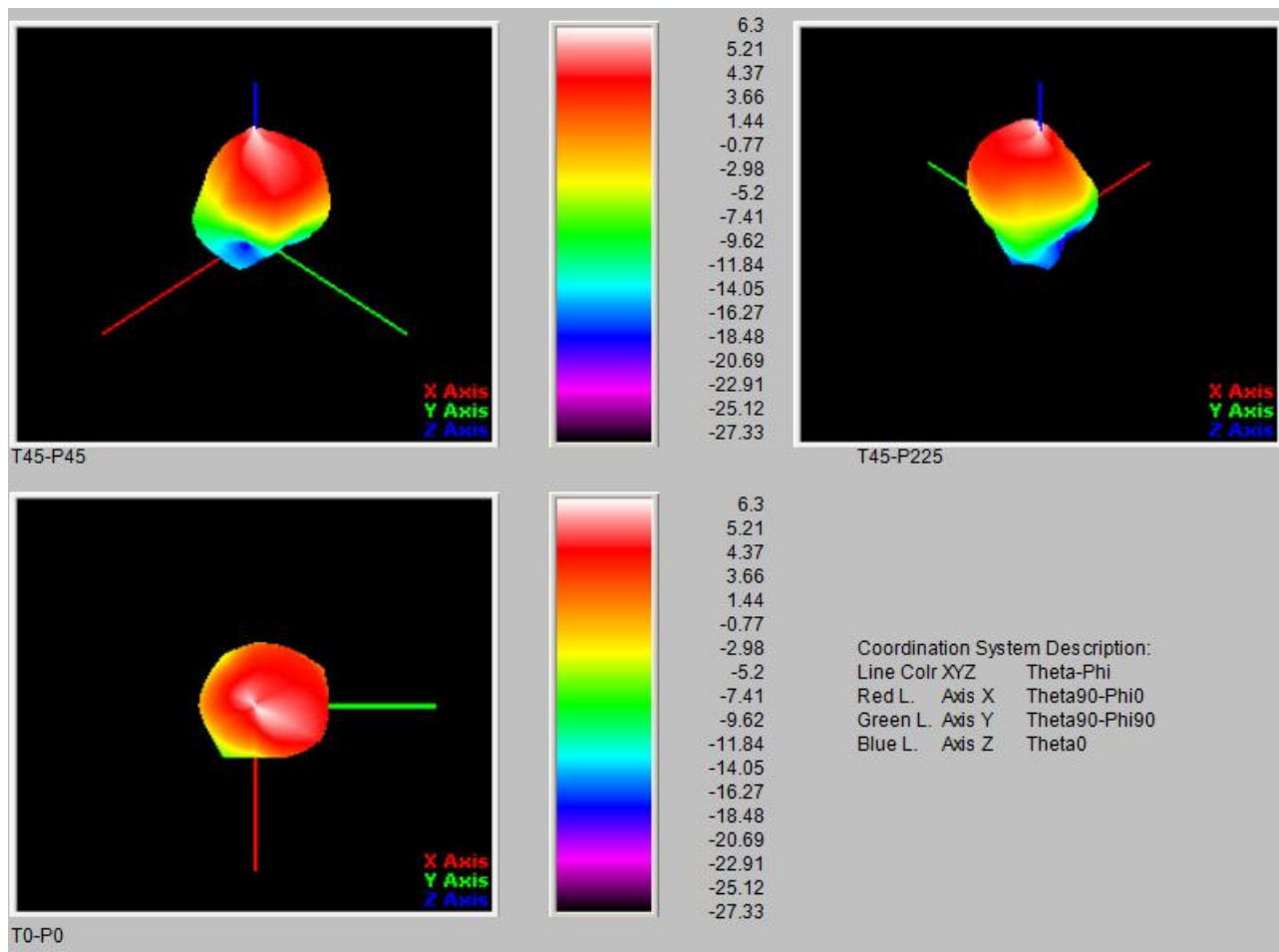


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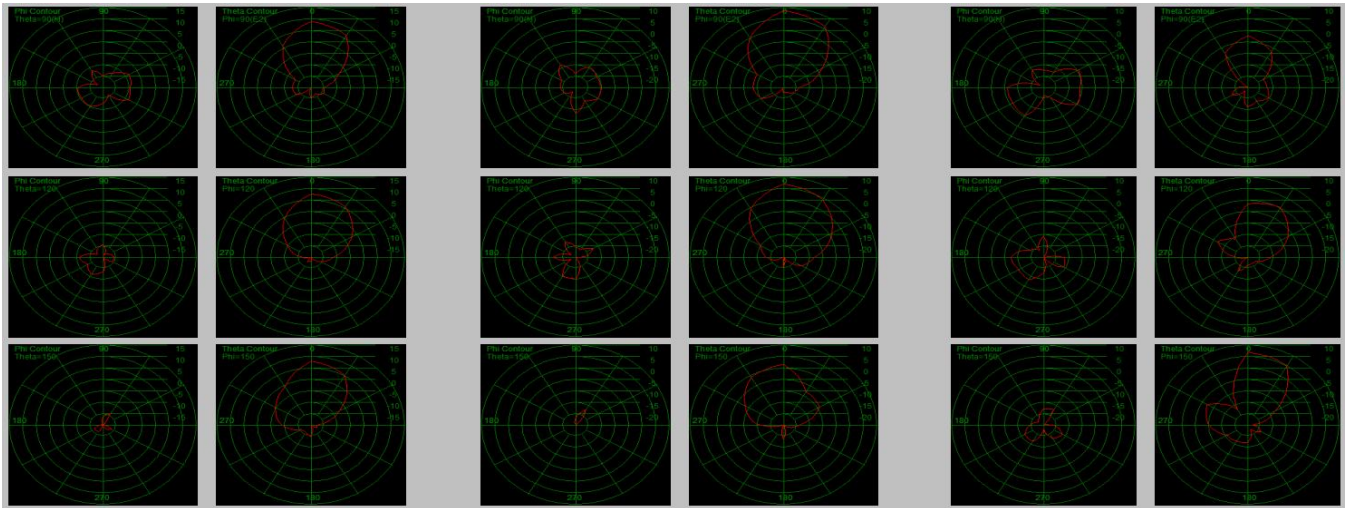
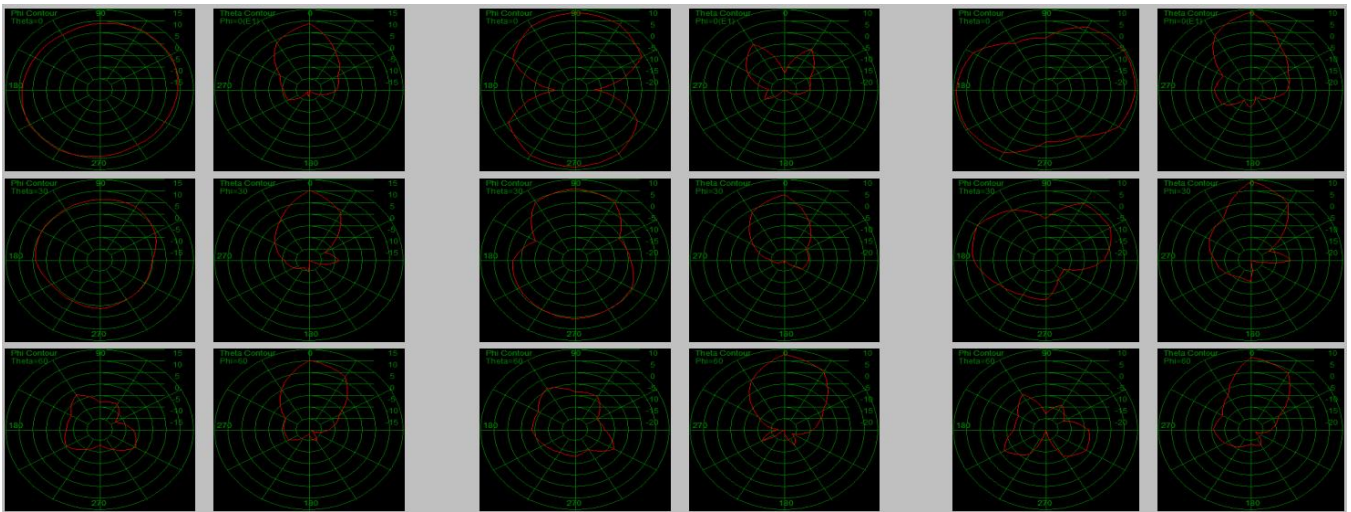


Passive -Freq5170.00MHZ



Confidentiality requirements

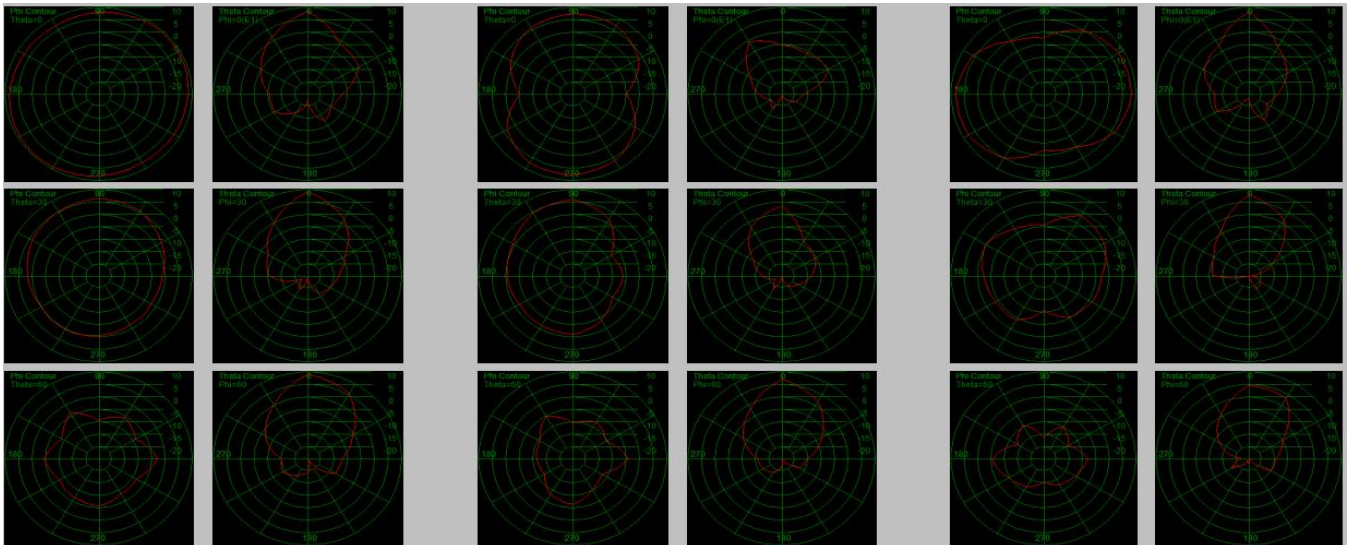
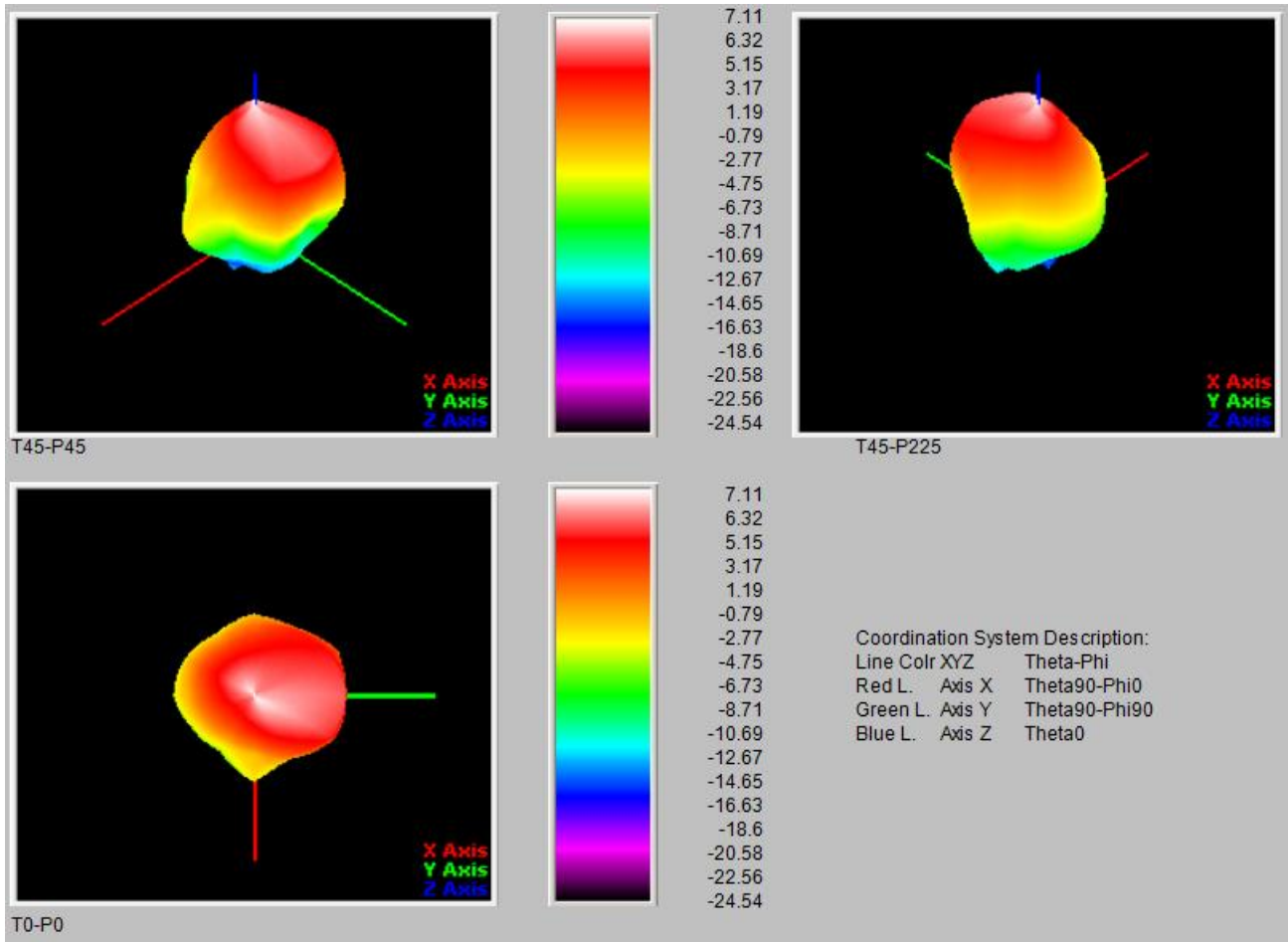
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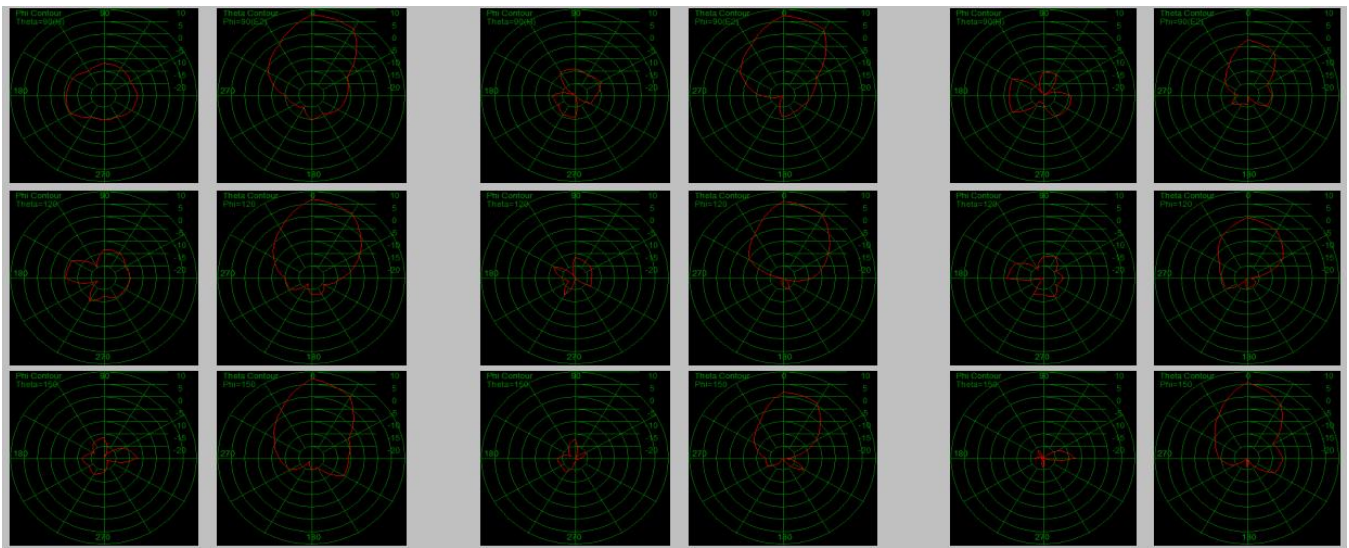
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Passive -Freq5450.00MHZ

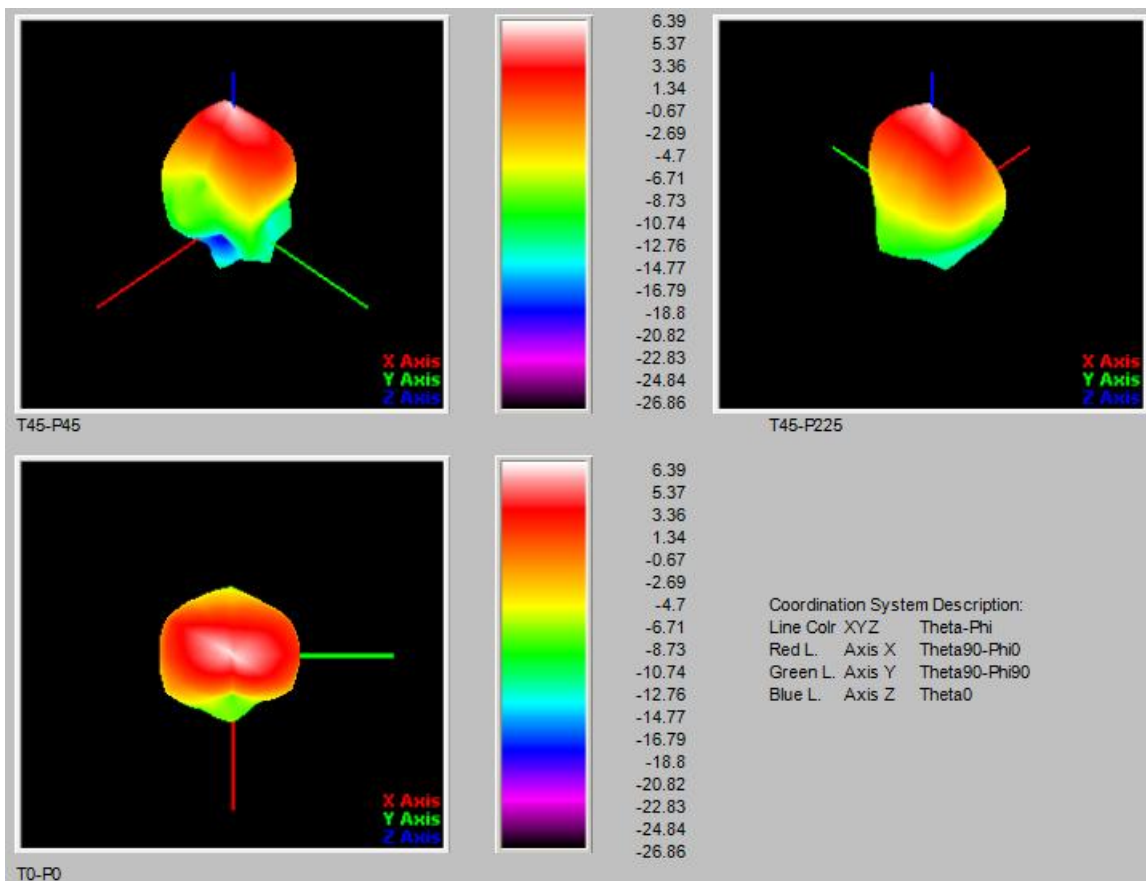


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Passive -Freq5730.00MHZ



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