- **Return Loss**

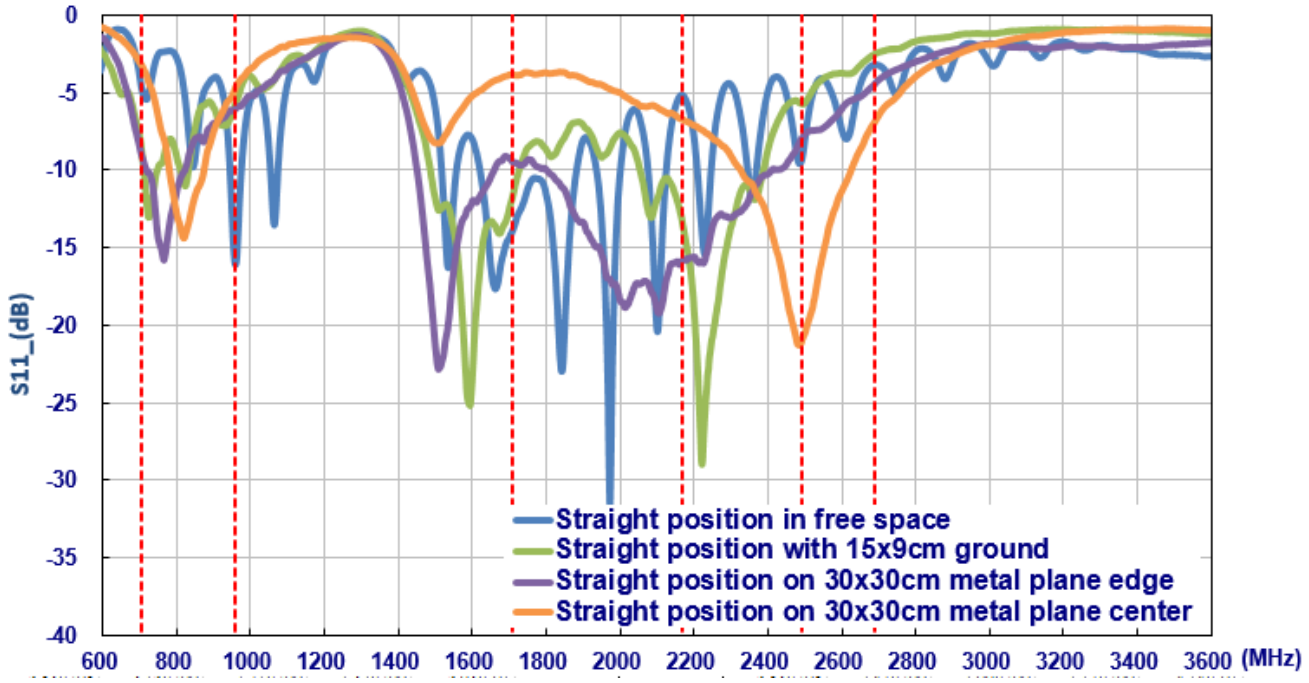


Figure 2. Return Loss of TG.08 antenna in straight position

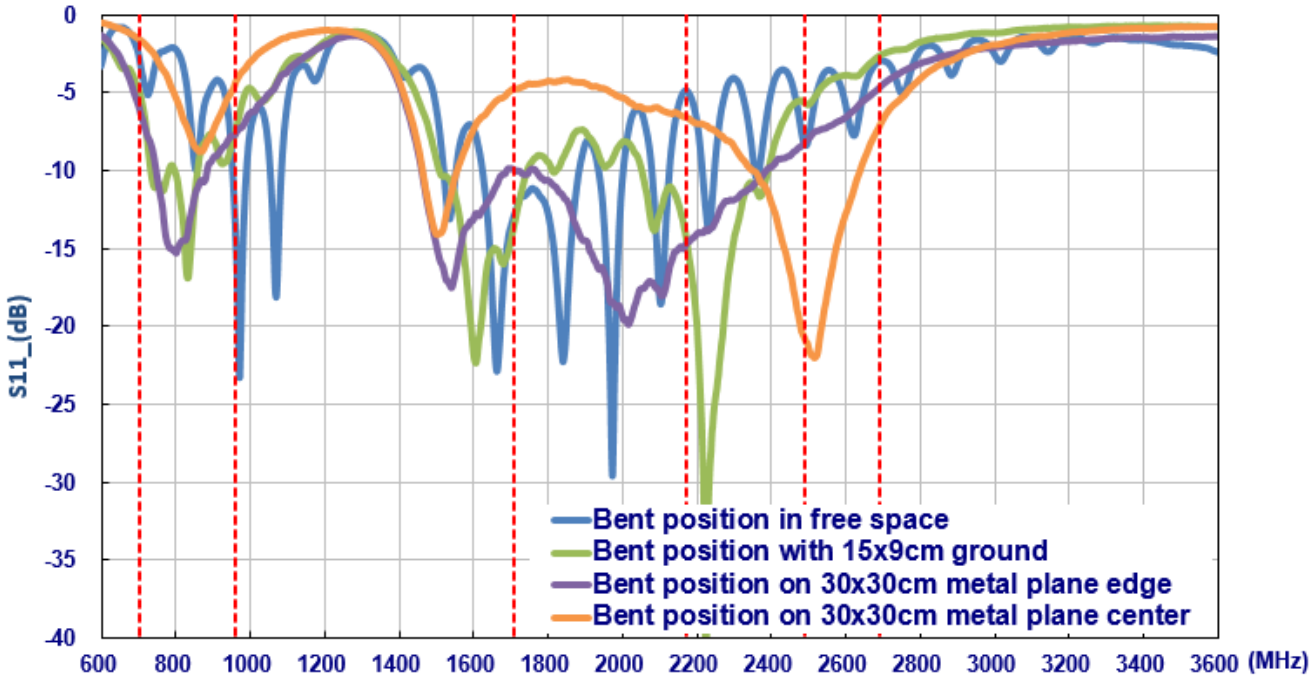


Figure 3. Return loss of TG.08 antenna in bent position

- **Efficiency**

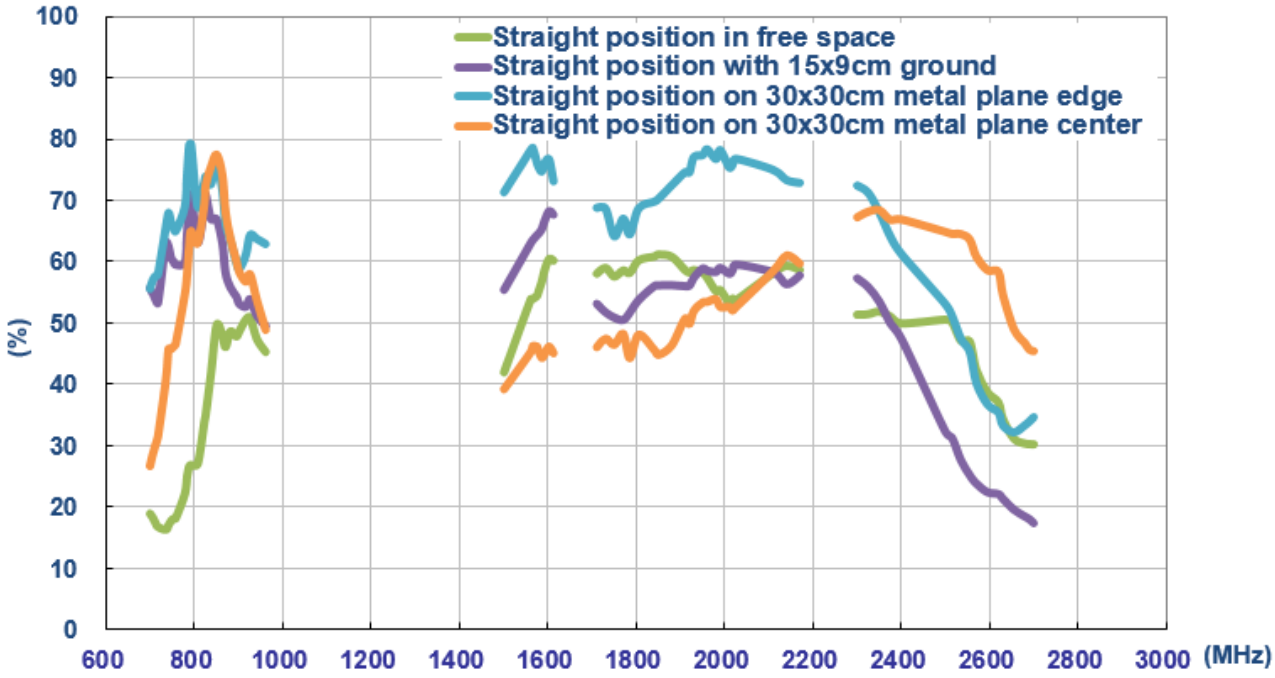


Figure 4. Efficiency of TG.08 antenna in straight position

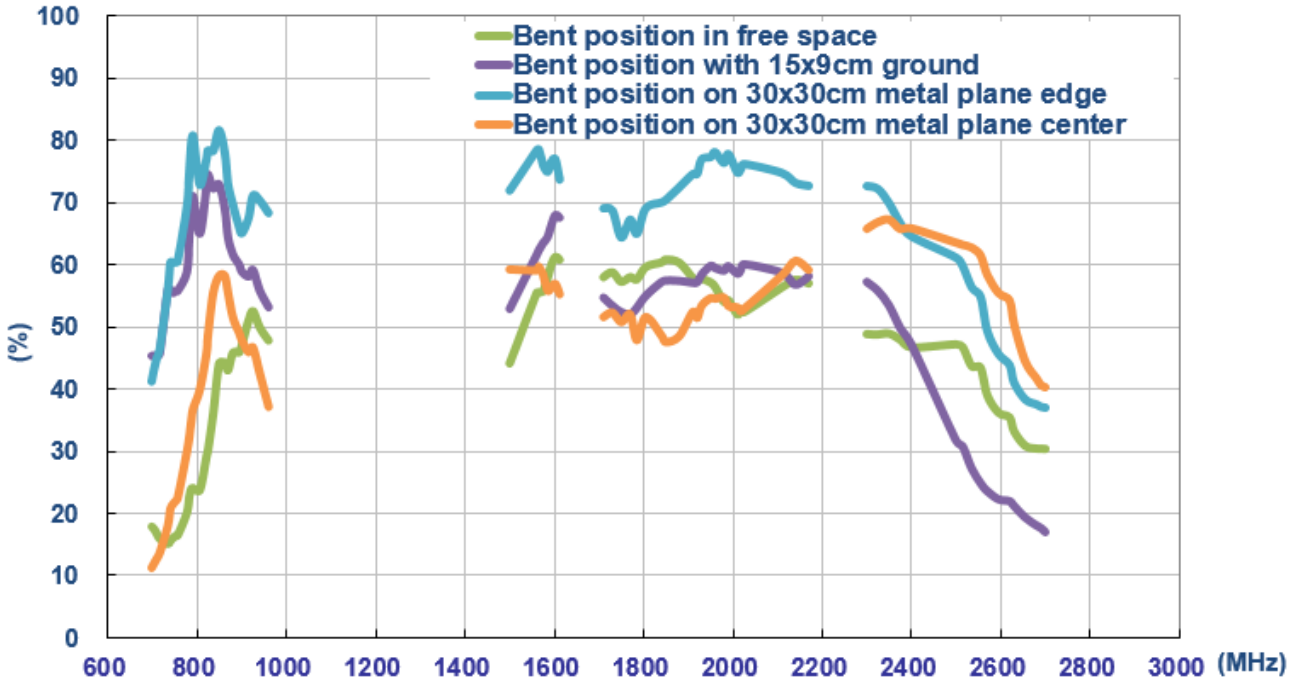


Figure 5. Efficiency of TG.08 antenna in bent position

- **Peak Gain**

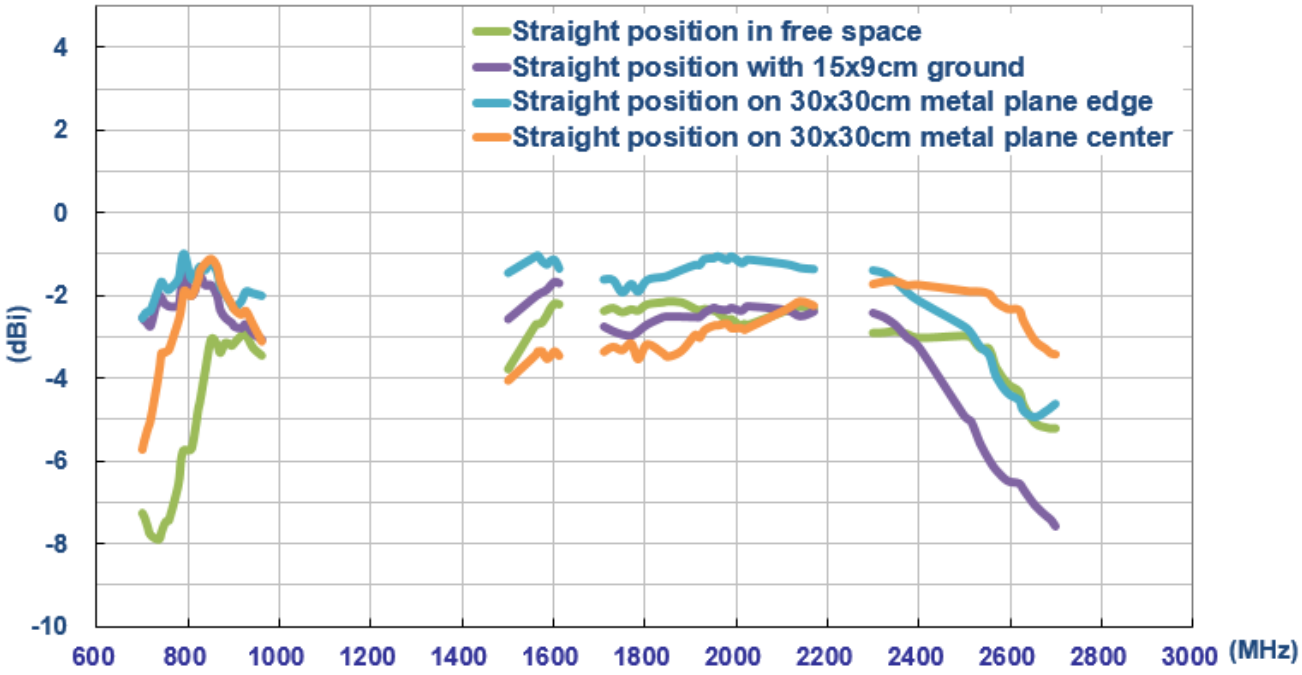


Figure 6. Peak gain of TG.08 antenna in straight position

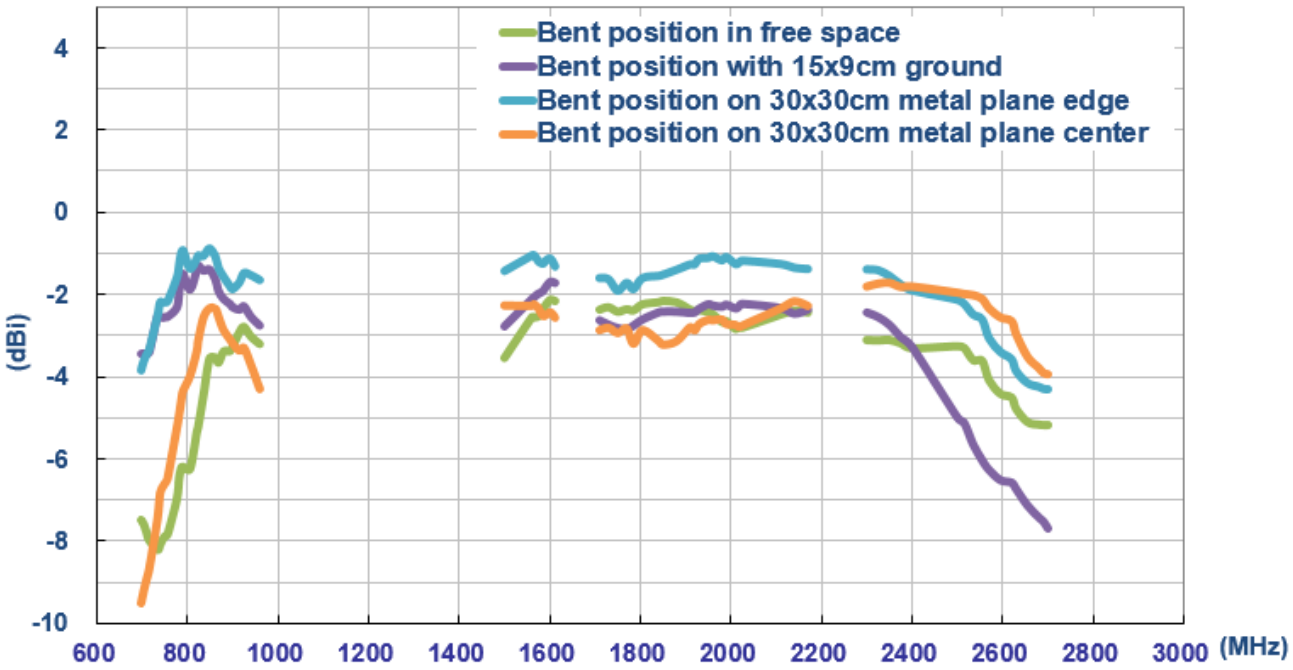


Figure 7. Peak gain of TG.08 antenna in bent position

- **Average Gain**

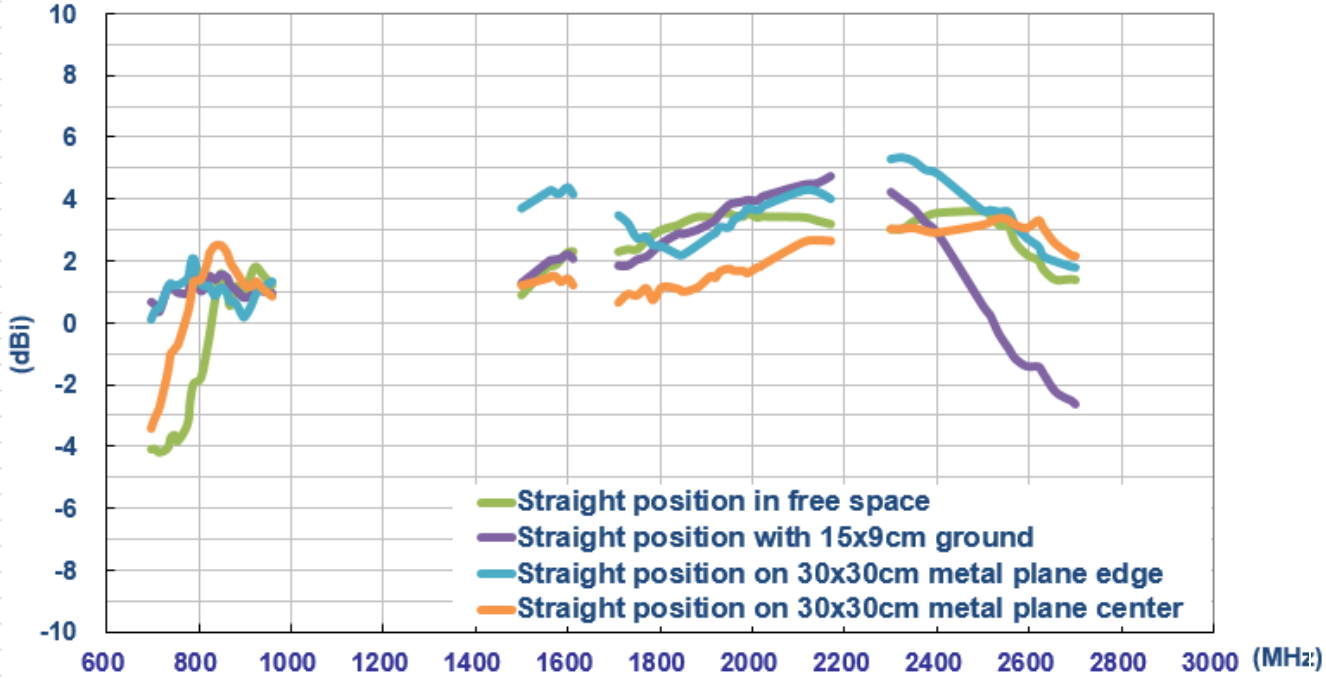


Figure 8. Average gain of TG.08 in straight position

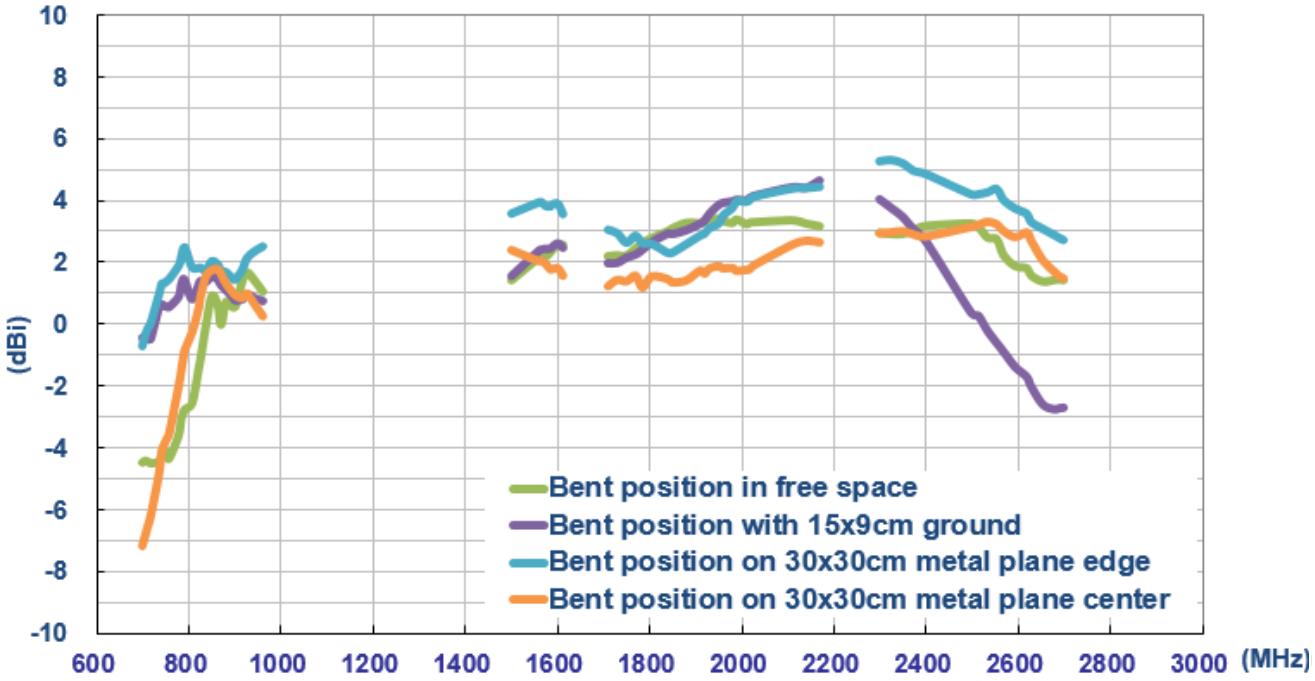
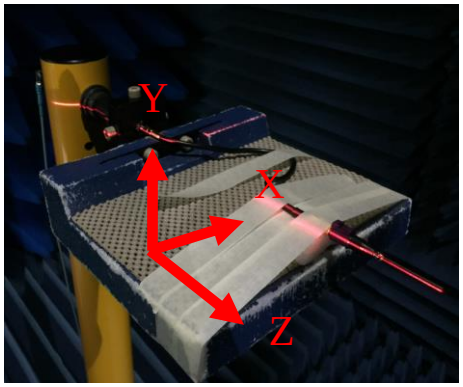


Figure 9. Average gain of TG.08 antenna in bent position

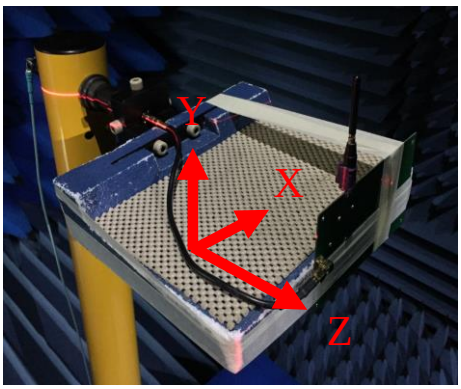
2. Antenna Radiation Patterns

The antenna radiation patterns were measured in a CTIA certified ETS Anechoic Chamber. The measurement setups are shown below.

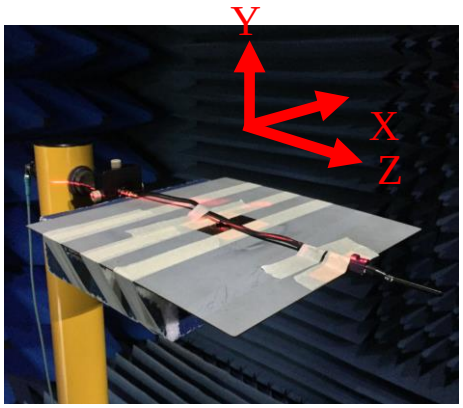
Antenna with Straight Position



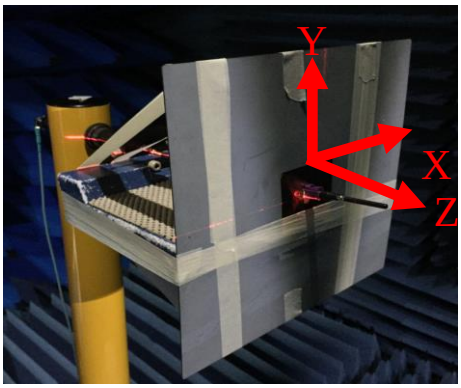
In free space



With 15x9cm ground plane

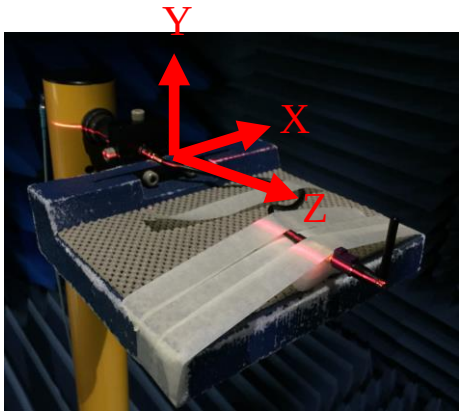


On 30x30cm metal ground edge

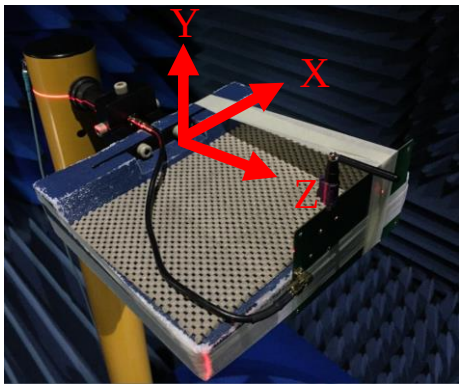


On 30x30cm metal ground center

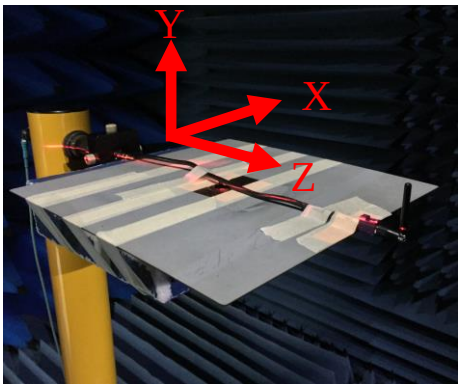
Antenna Bent Position



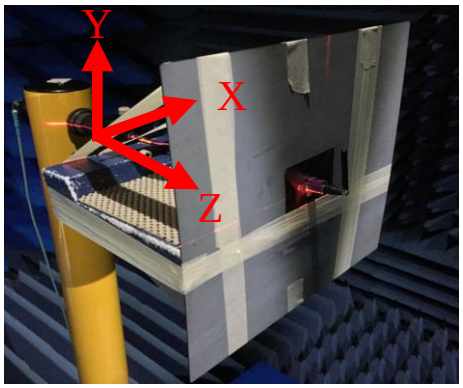
In free space



With 15x9cm ground plane



On 30x30cm metal ground edge

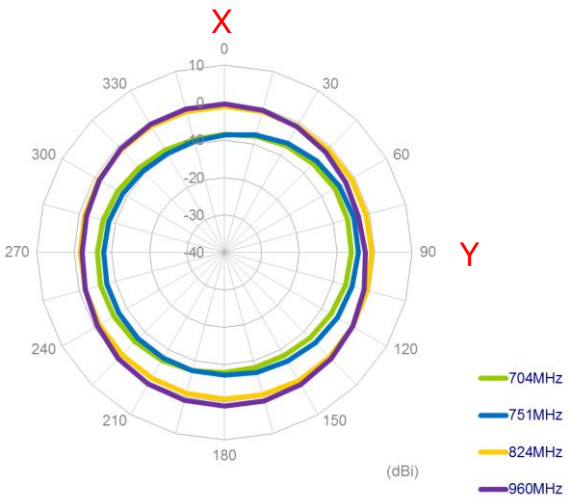


On 30x30cm metal ground center

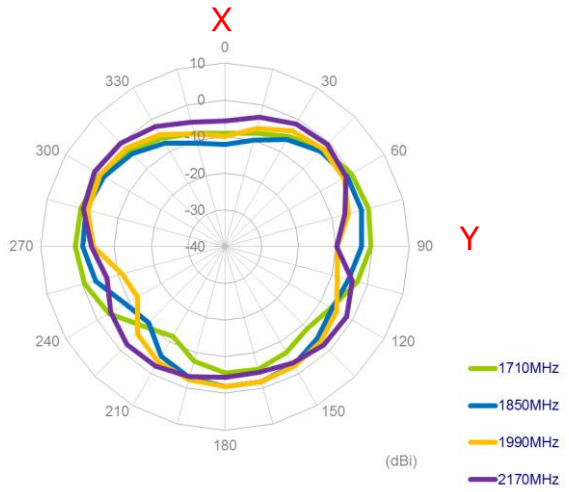
Figure 10. Testing Setup in ETS Anechoic Chamber

2D Radiation Pattern
(Straight Position in Free Space)

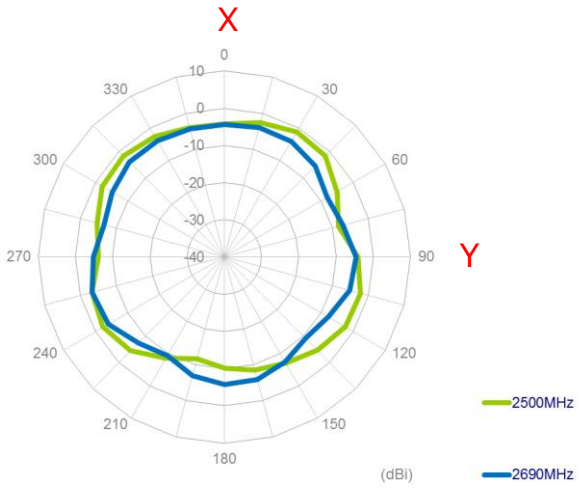
XY Plane



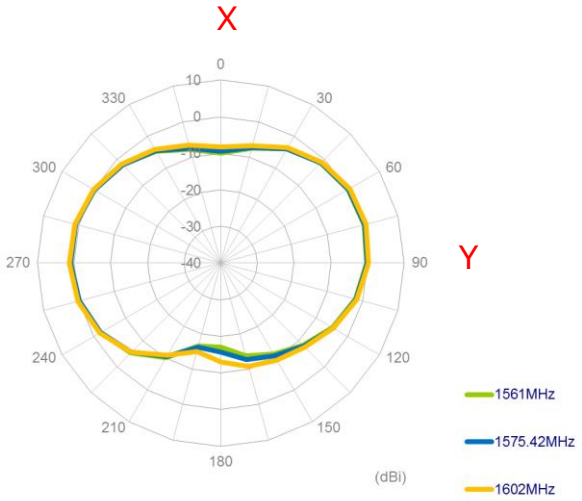
XY Plane



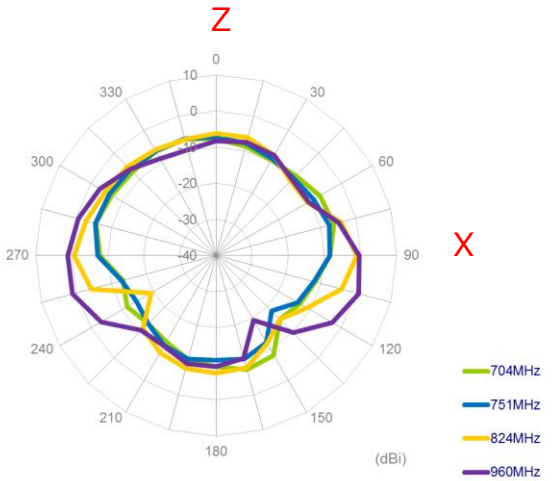
XY Plane



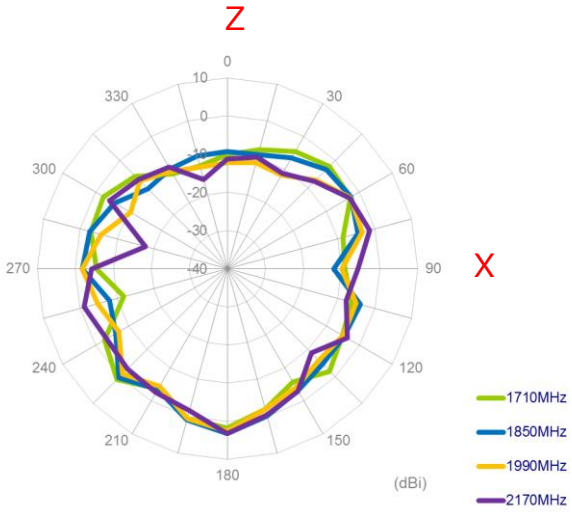
XY Plane



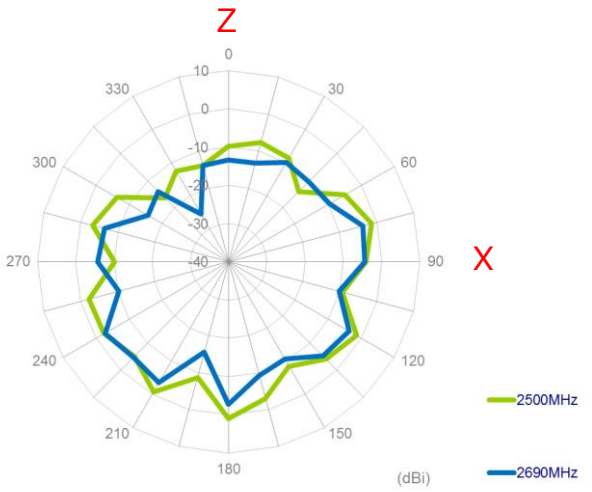
XZ Plane



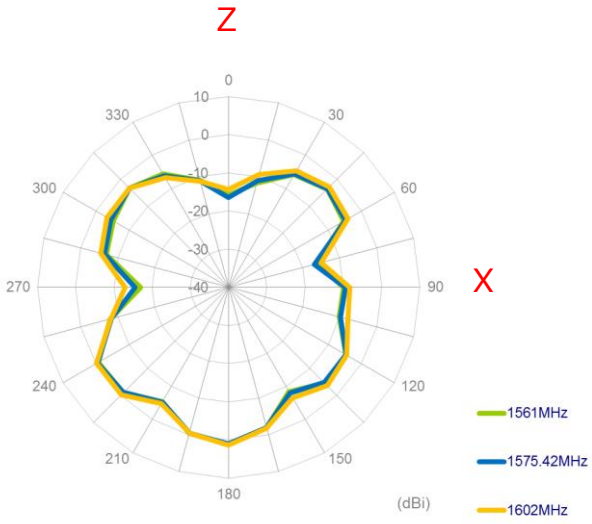
XZ Plane



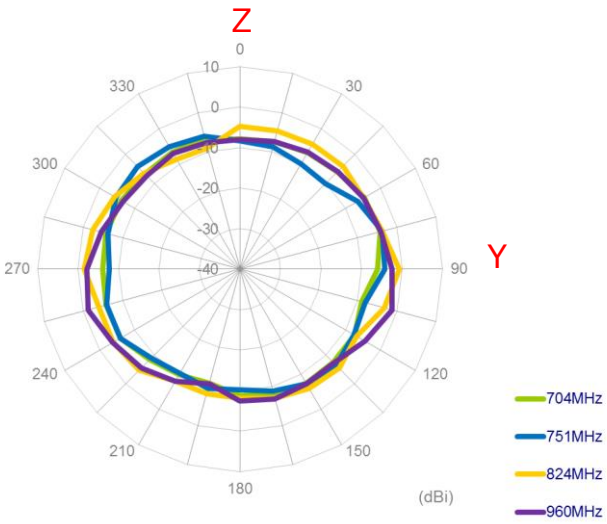
XZ Plane



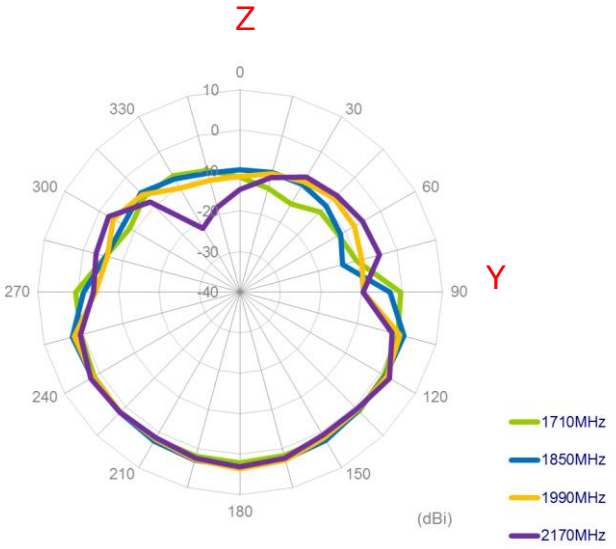
XZ Plane



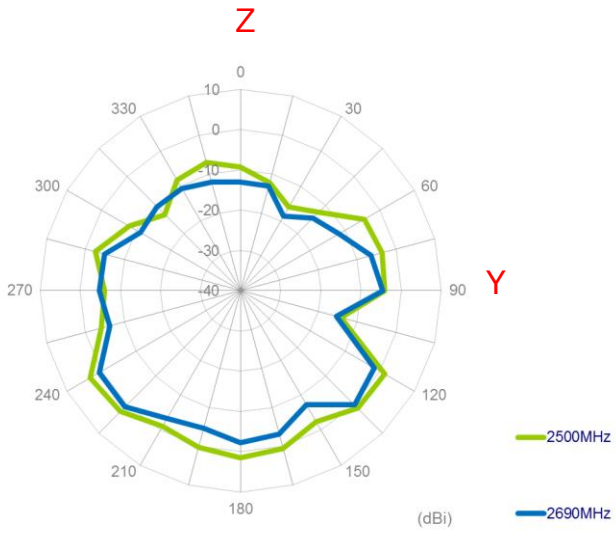
YZ Plane



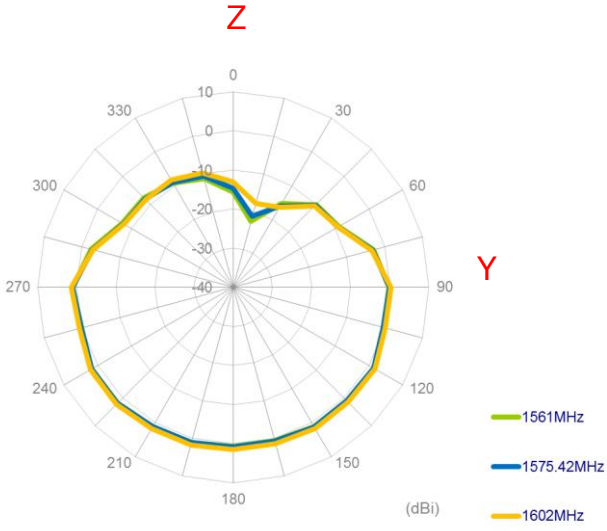
YZ Plane



YZ Plane

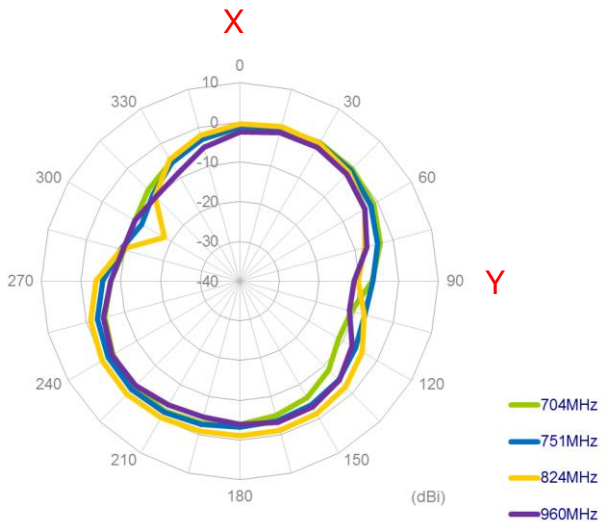


YZ Plane

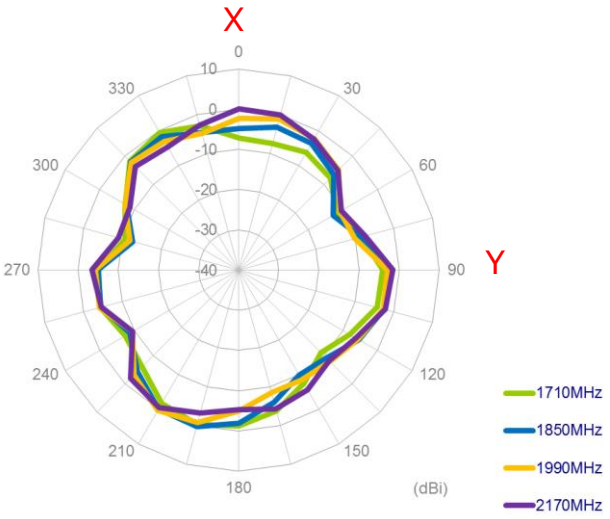


2D Radiation Pattern
(Straight Position with 15x9cm Ground)

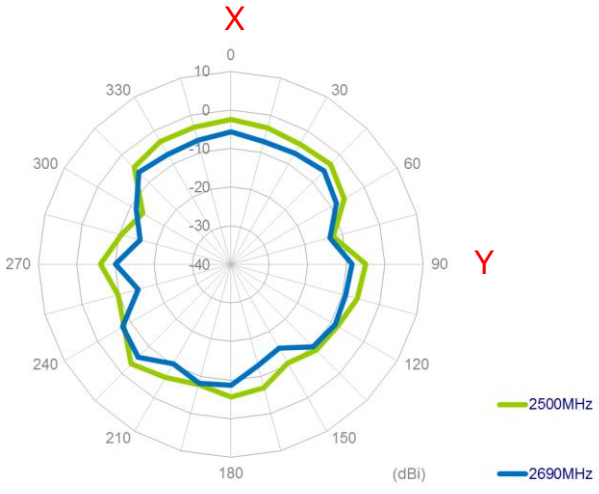
XY Plane



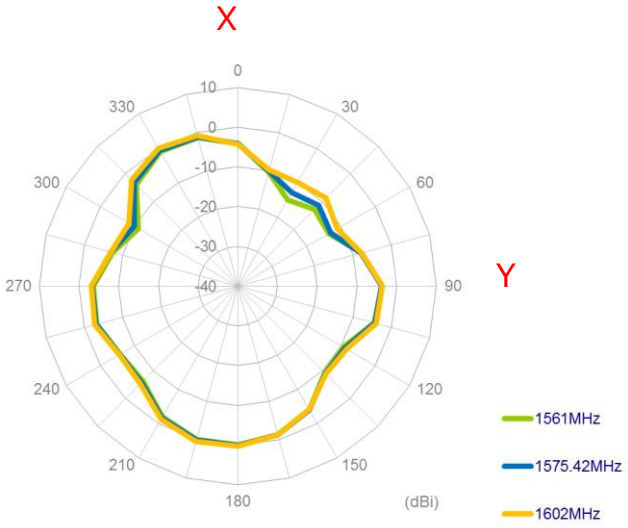
XY Plane



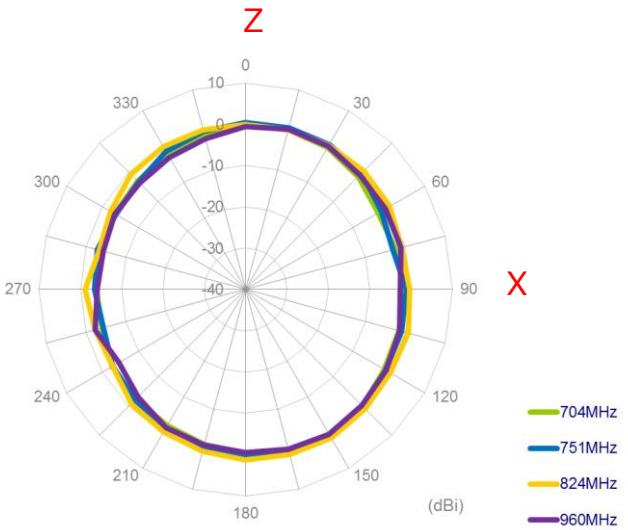
XY Plane



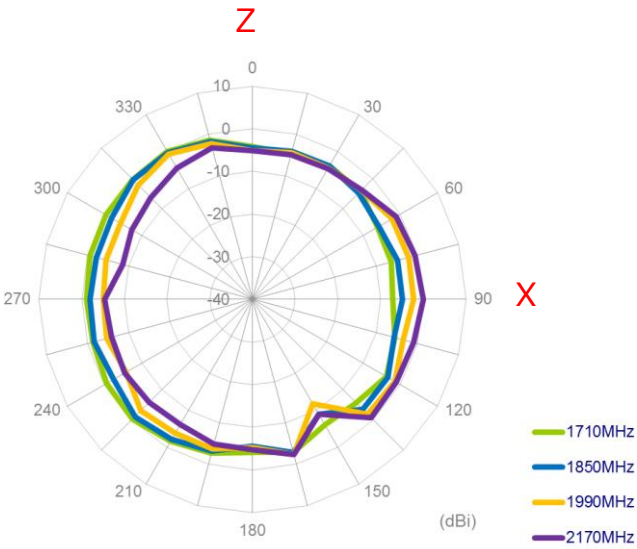
XY Plane



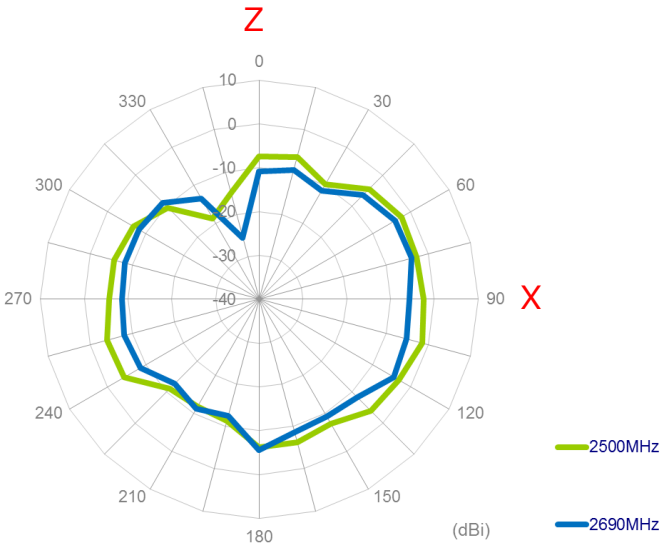
XZ Plane



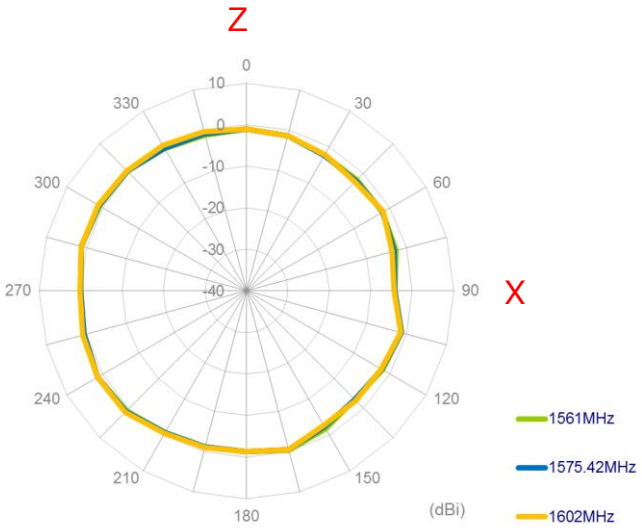
XZ Plane



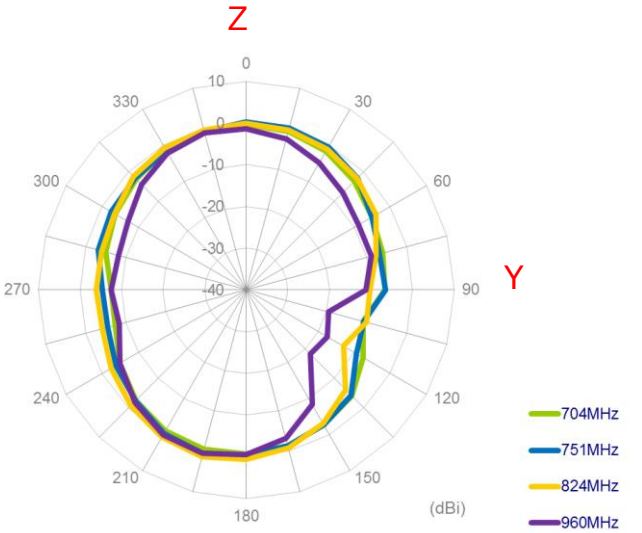
XZ Plane



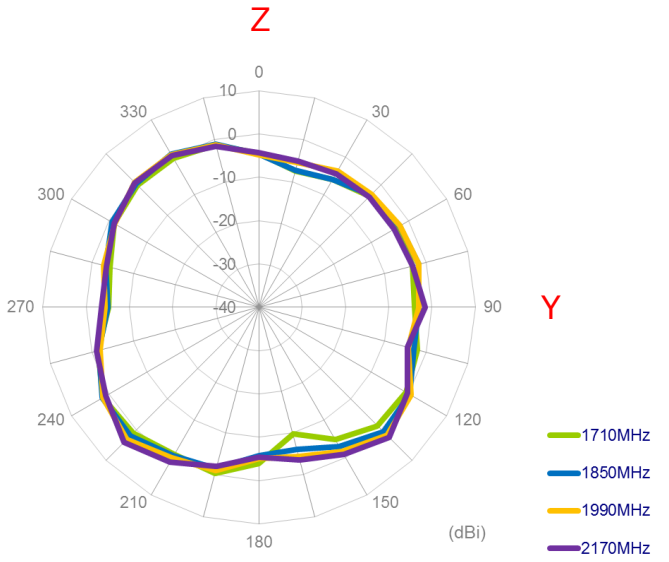
XZ Plane



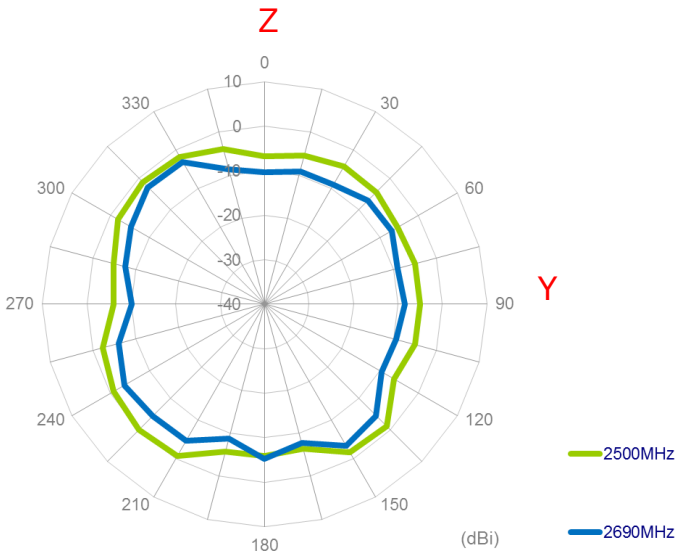
YZ Plane



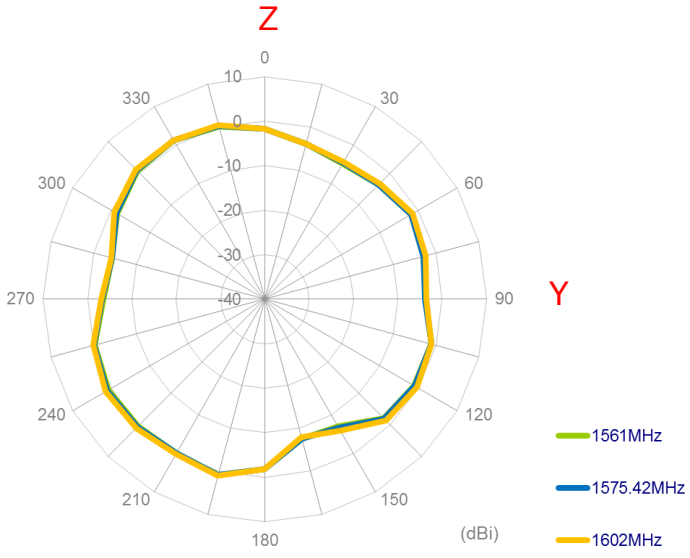
YZ Plane



YZ Plane

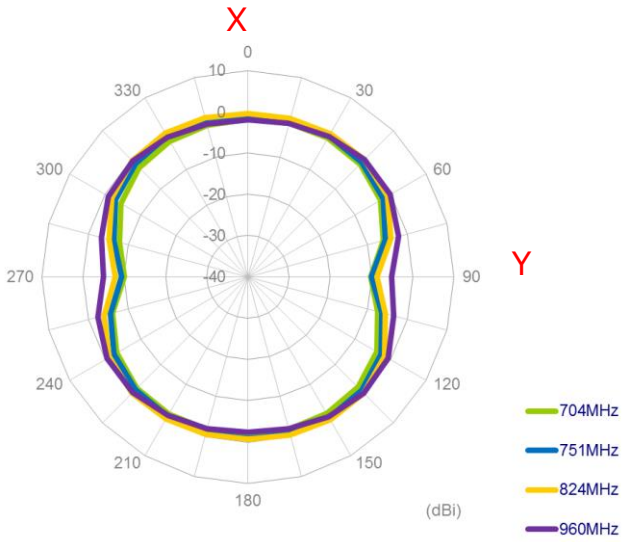


YZ Plane

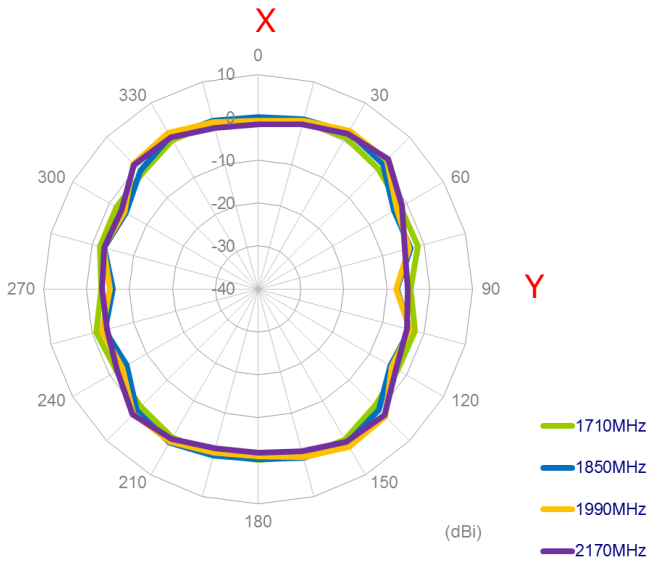


2D Radiation Pattern
(Straight Position with 30x30cm Metal Ground Edge)

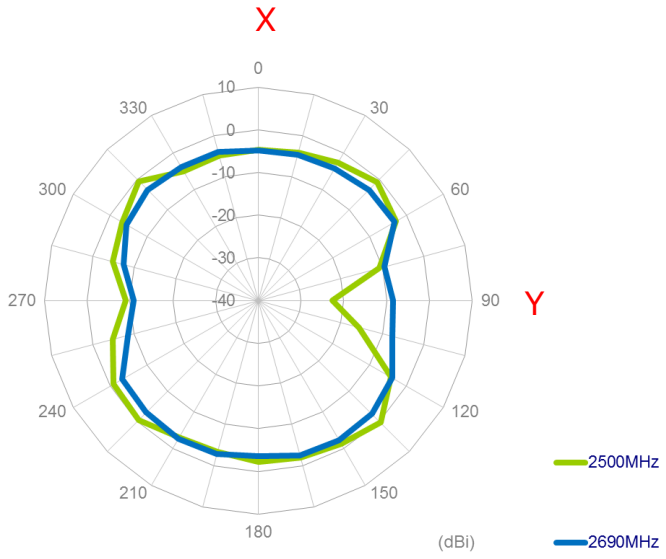
XY Plane



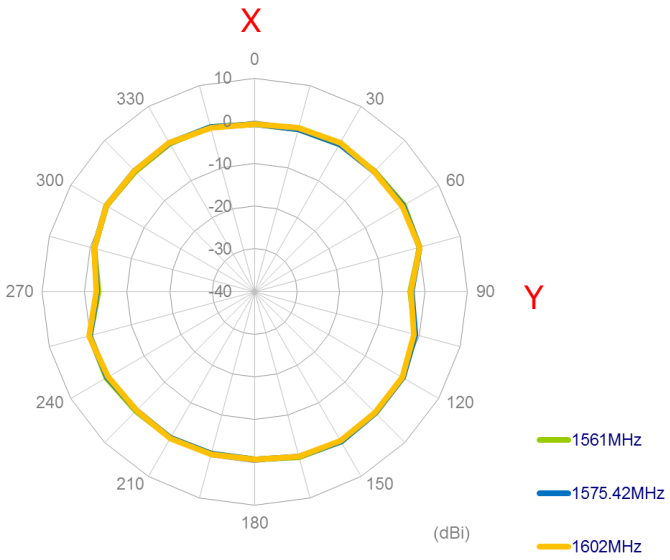
XY Plane



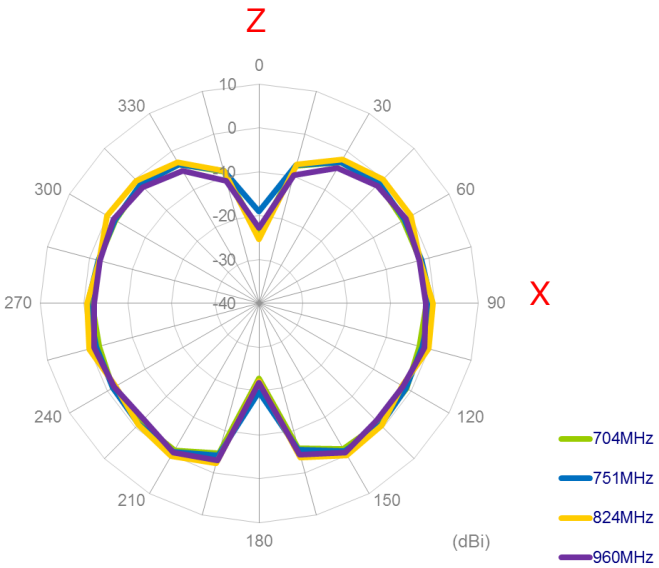
XY Plane



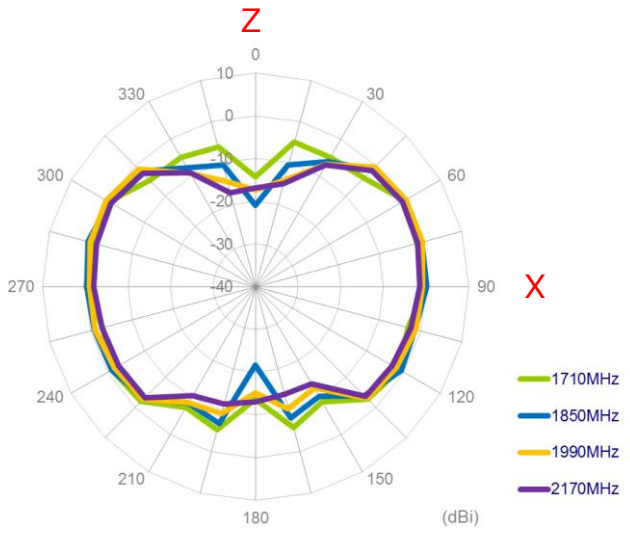
XY Plane



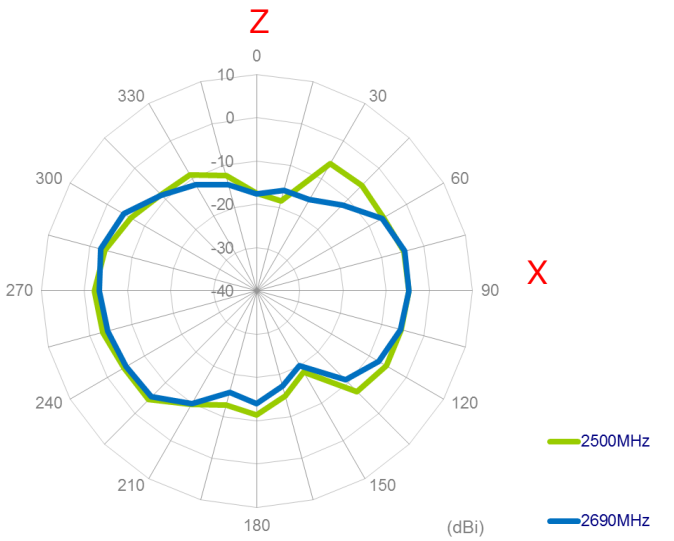
XZ Plane



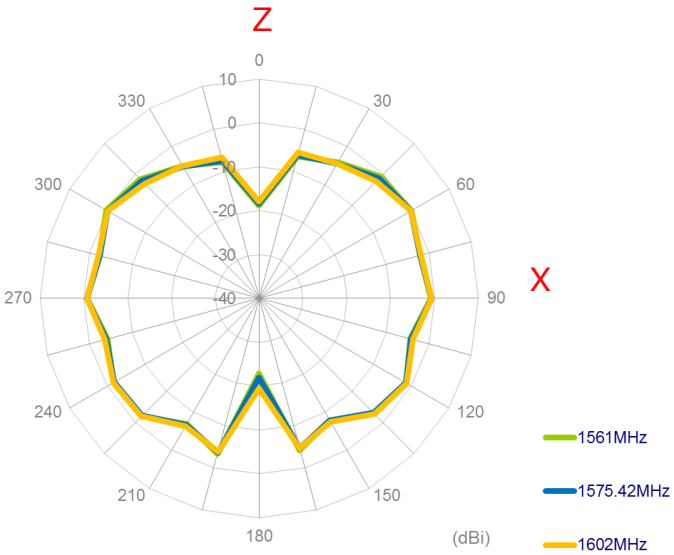
XZ Plane



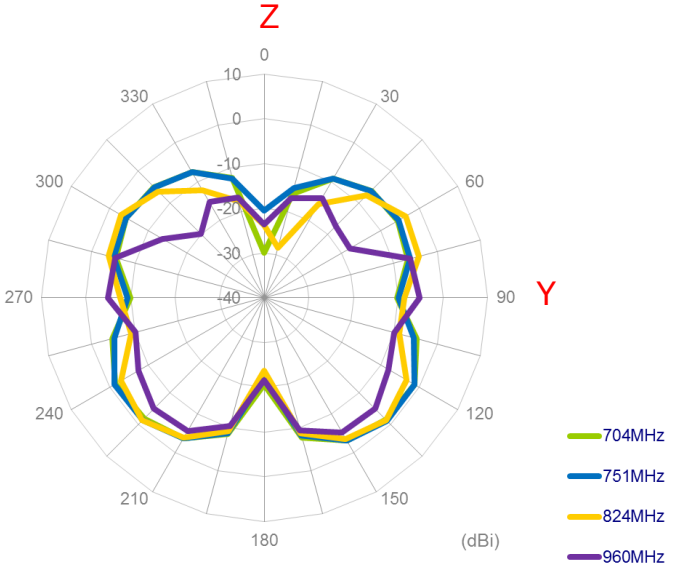
XZ Plane



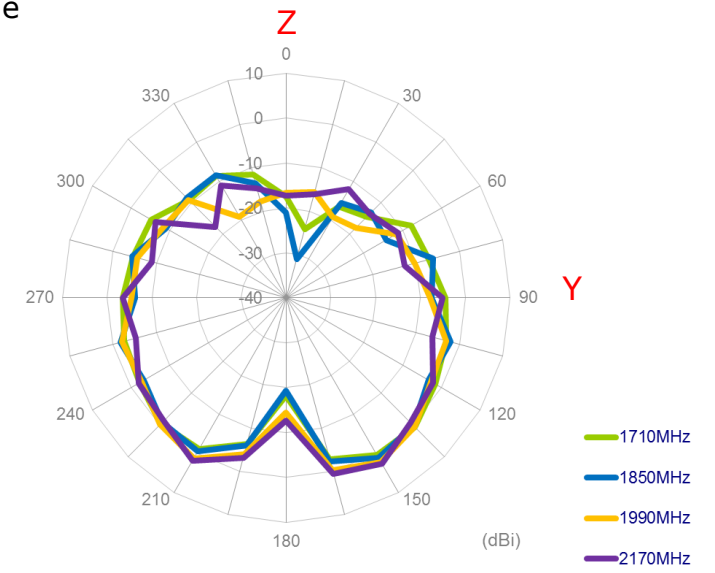
XZ Plane



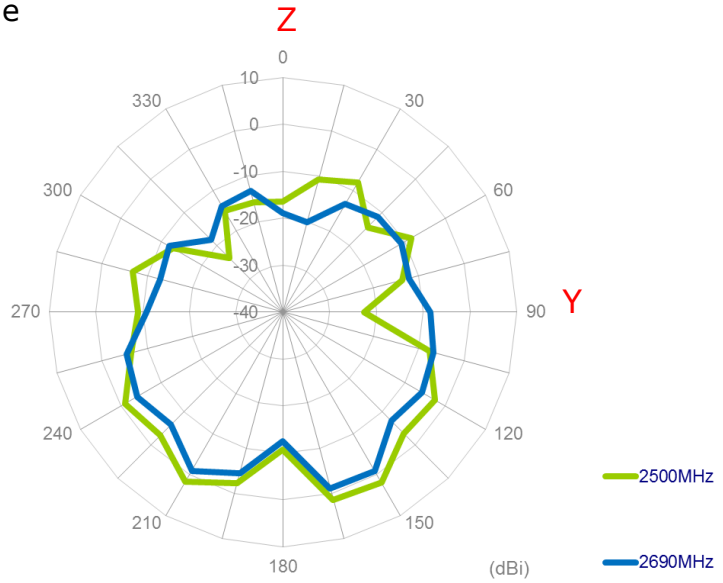
YZ Plane



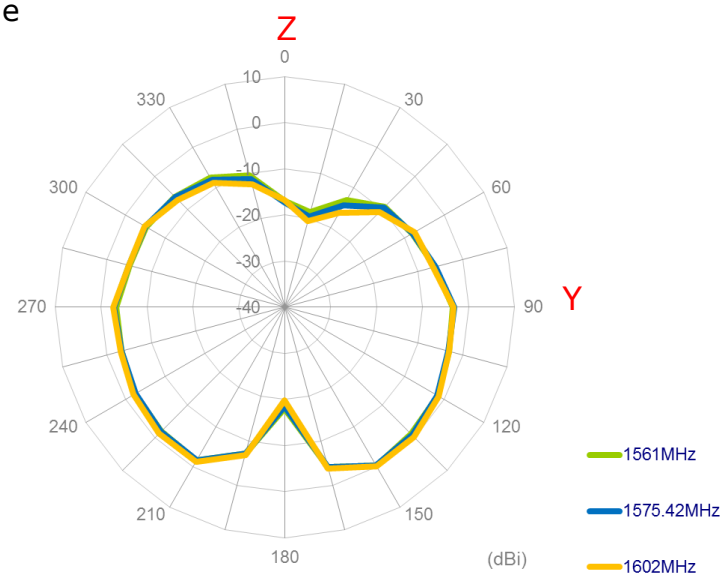
YZ Plane



YZ Plane



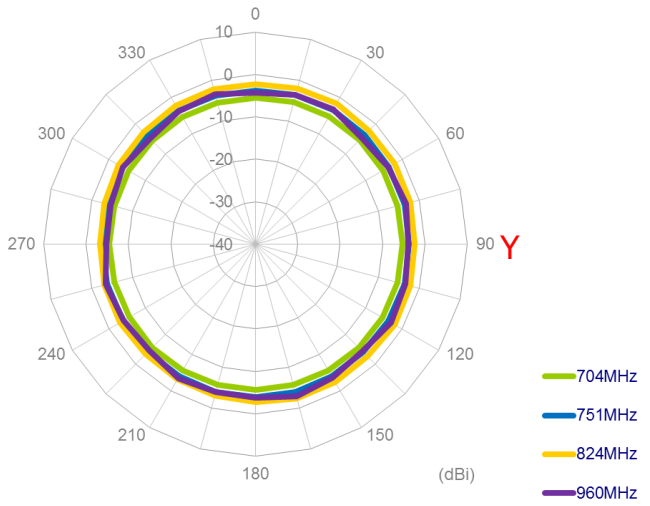
YZ Plane



2D Radiation Pattern
(Straight Position with 30x30cm Metal Ground Center)

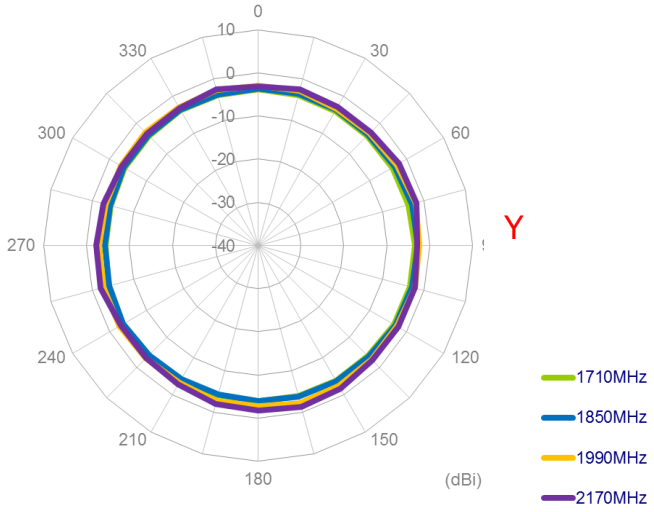
X

XY Plane



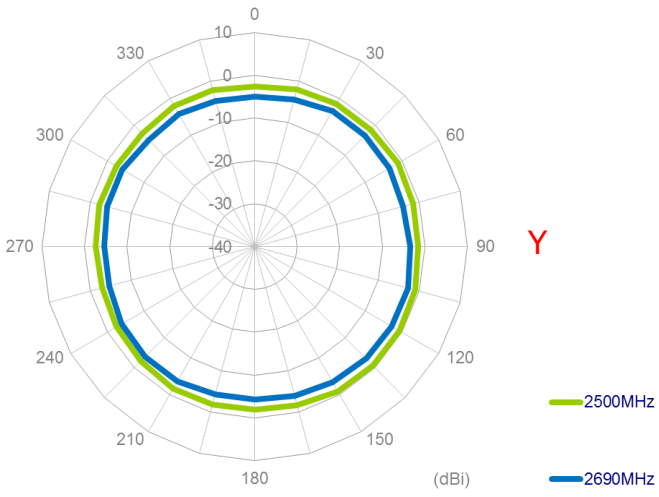
XY Plane

X

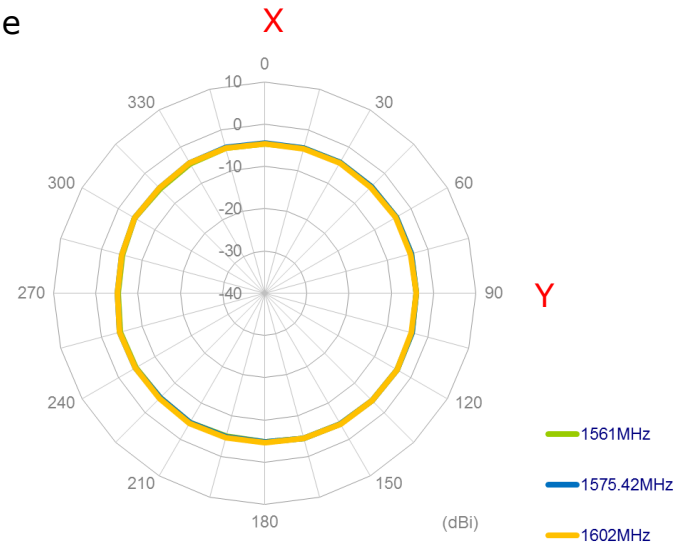


XY Plane

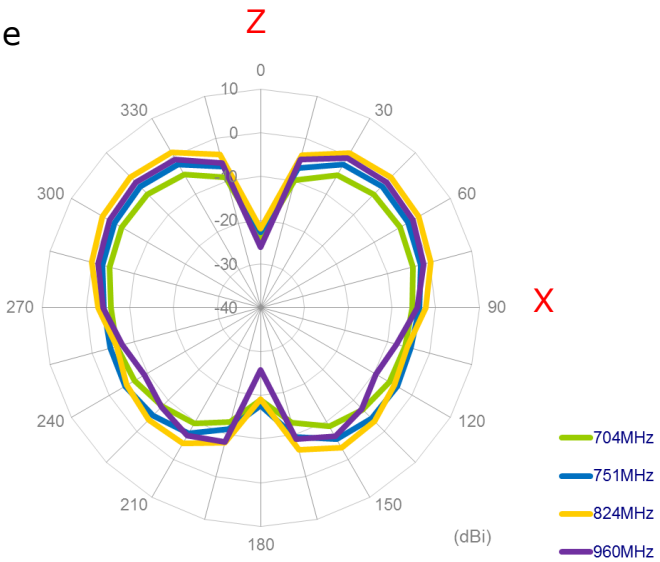
X



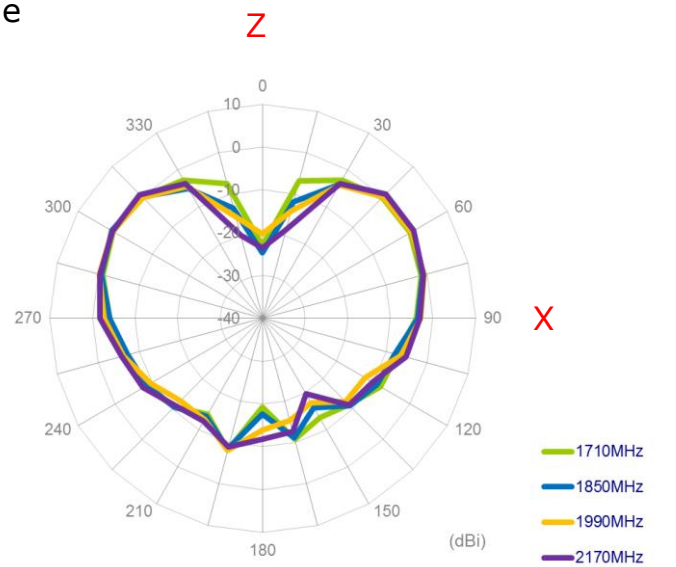
XY Plane



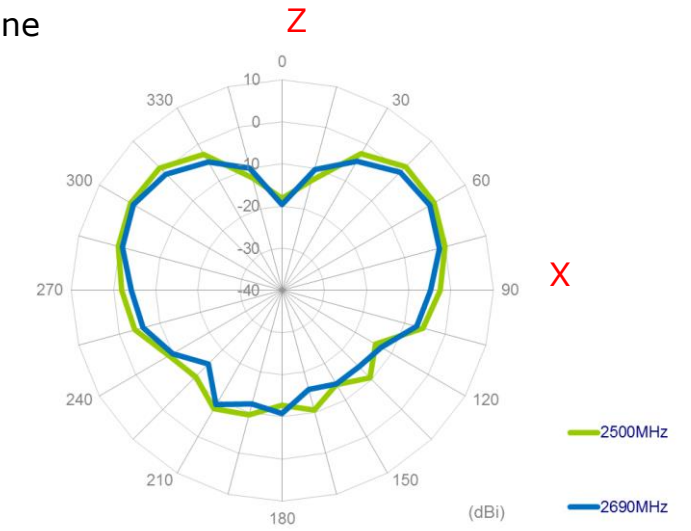
XZ Plane



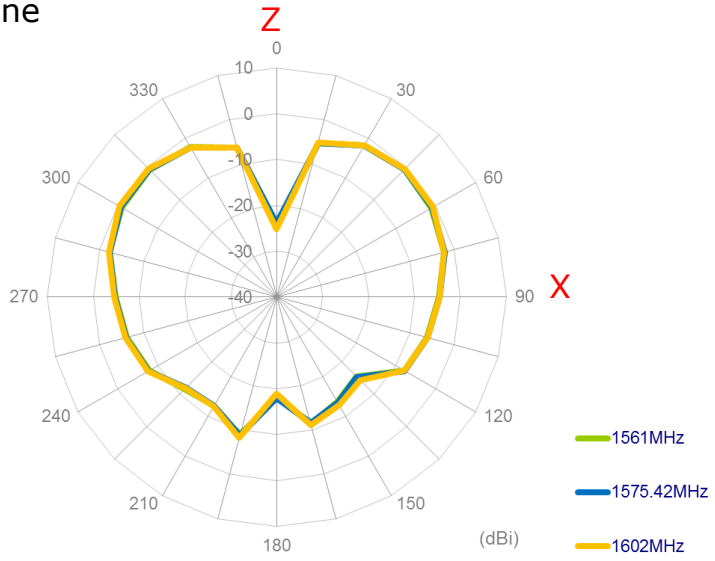
XZ Plane



XZ Plane



XZ Plane



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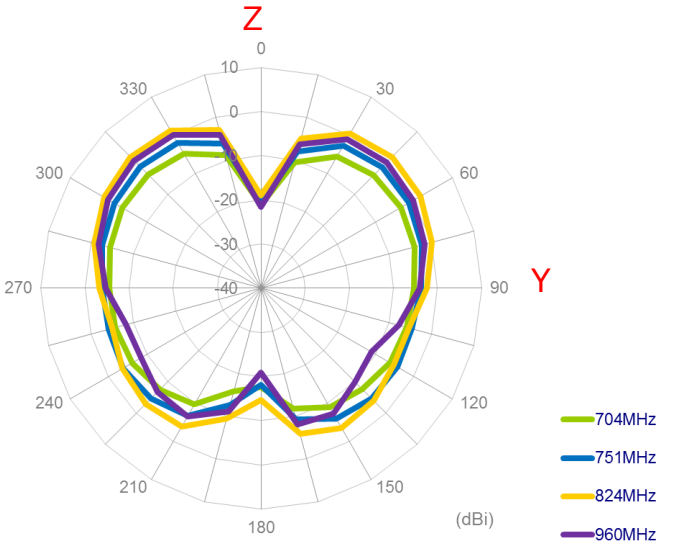

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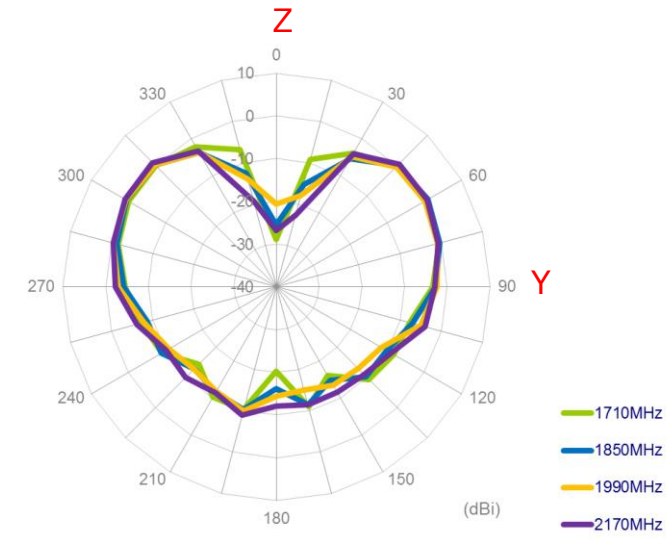

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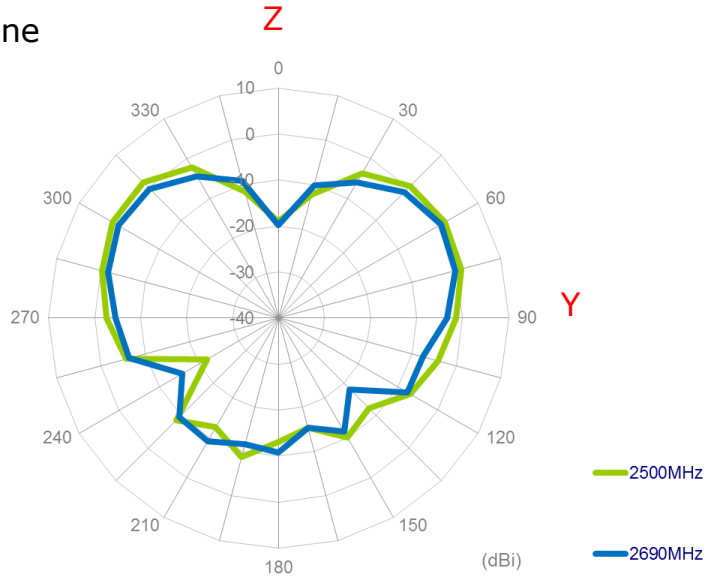

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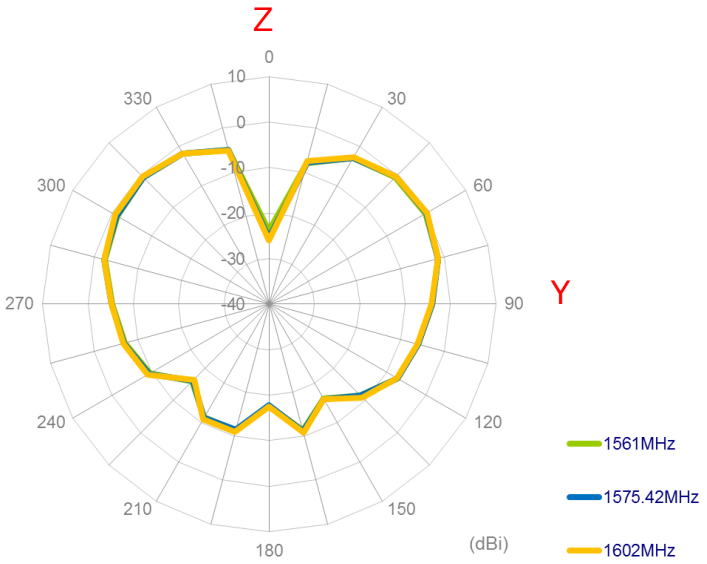
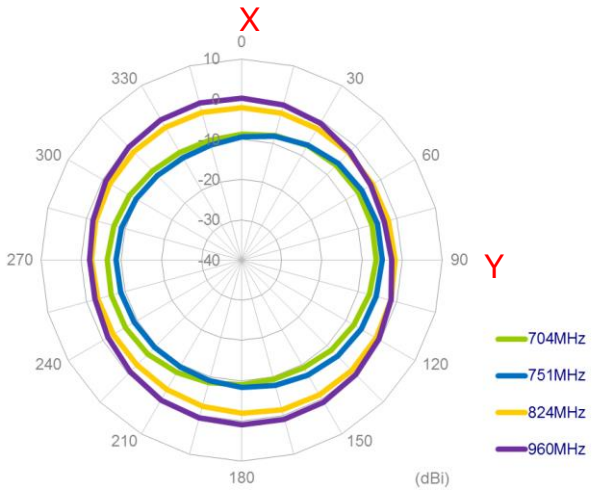
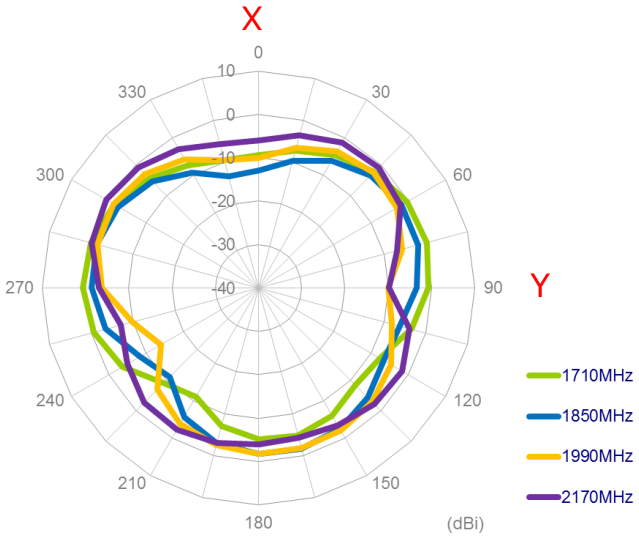


2D Radiation Pattern
(Bent Position in Free Space)

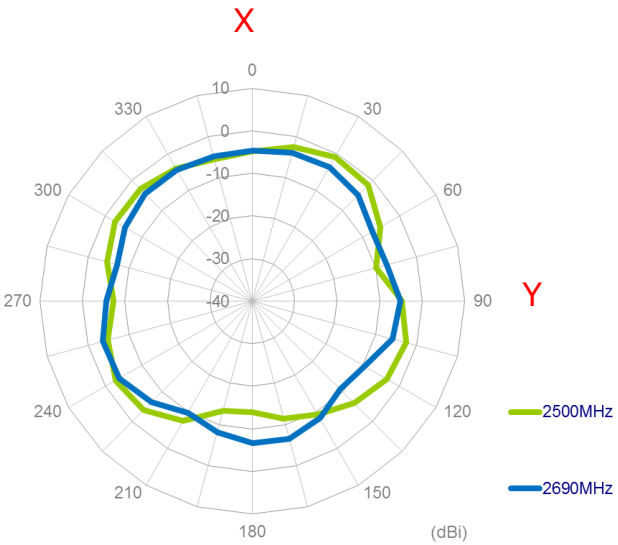
XY Plane



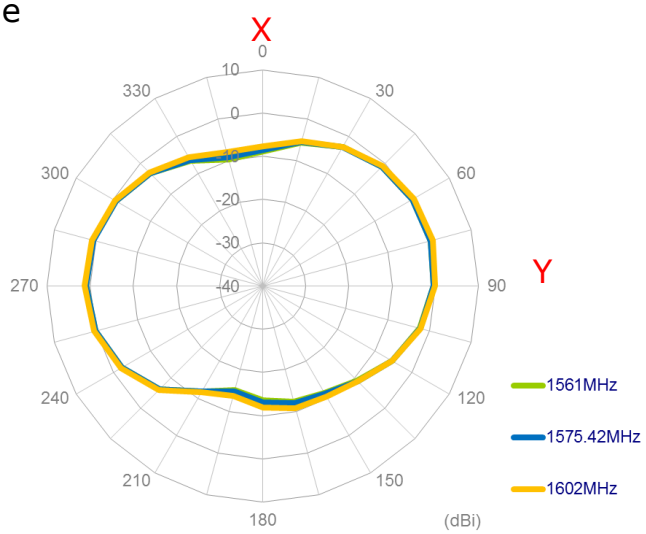
XY Plane



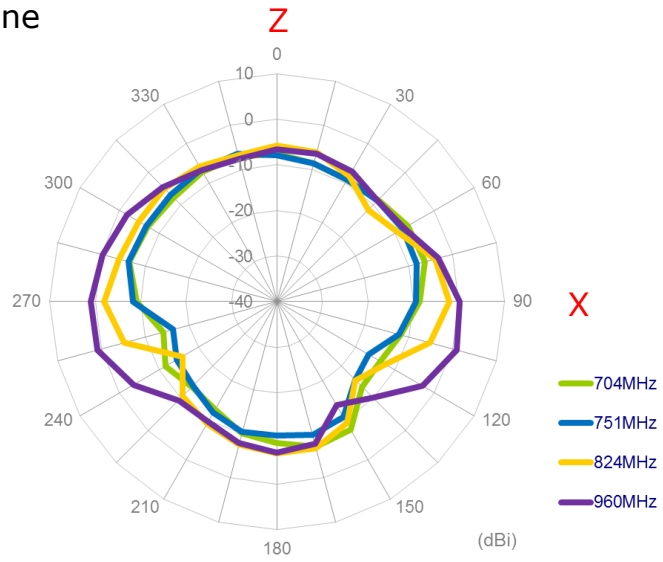
XY Plane



XY Plane



XZ Plane



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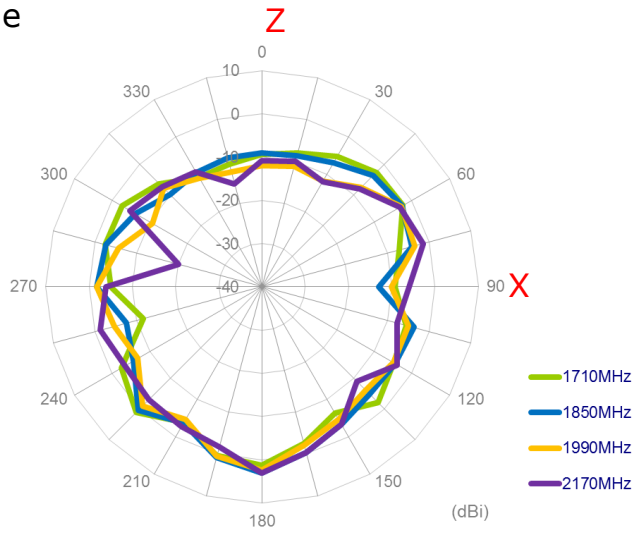
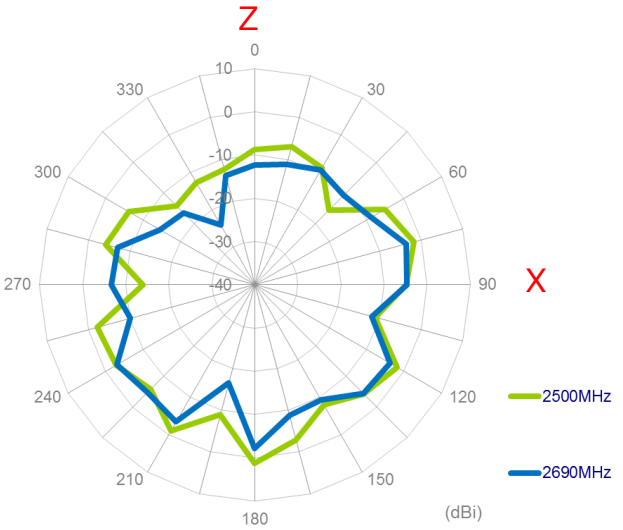


XZ Plane



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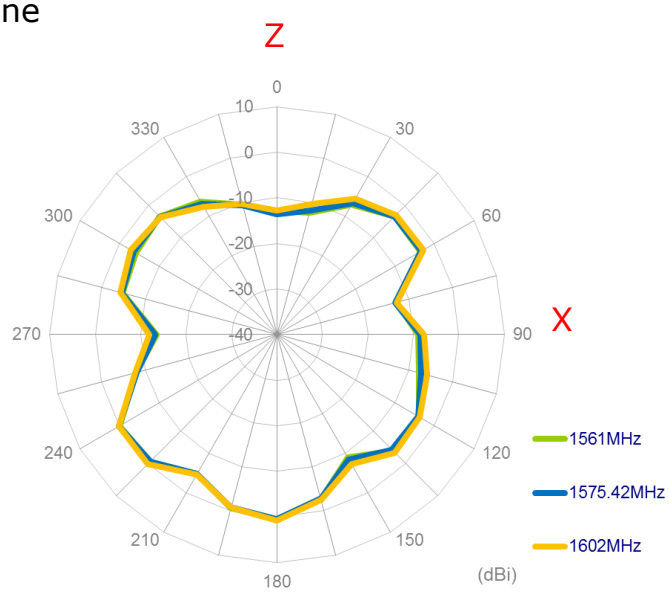
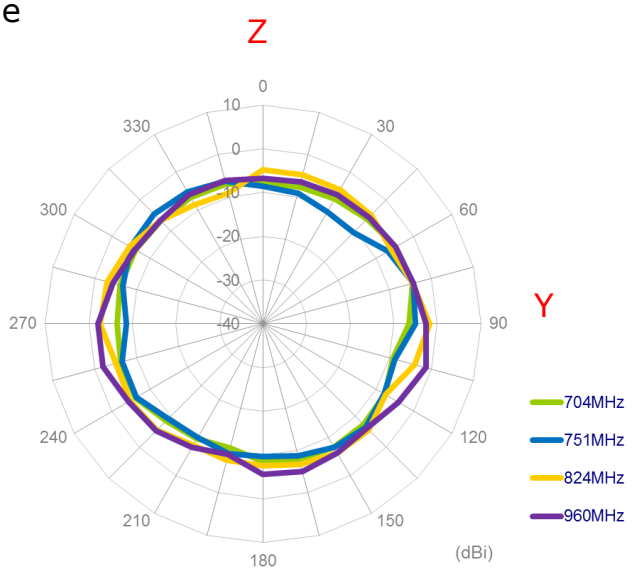


YZ Plane



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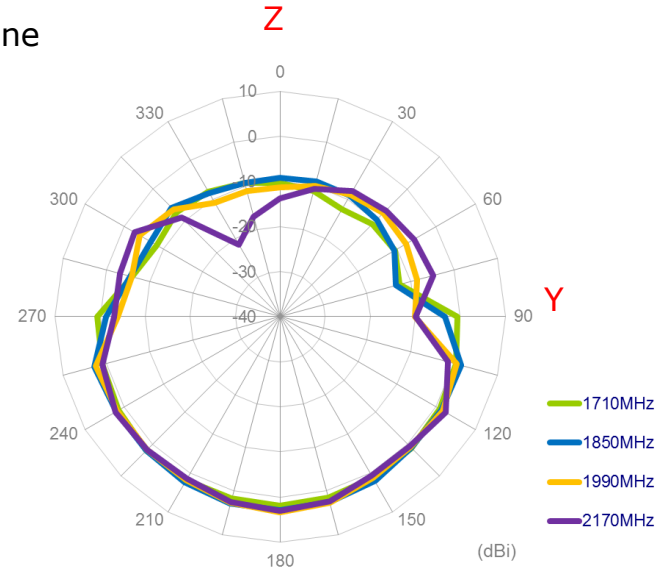

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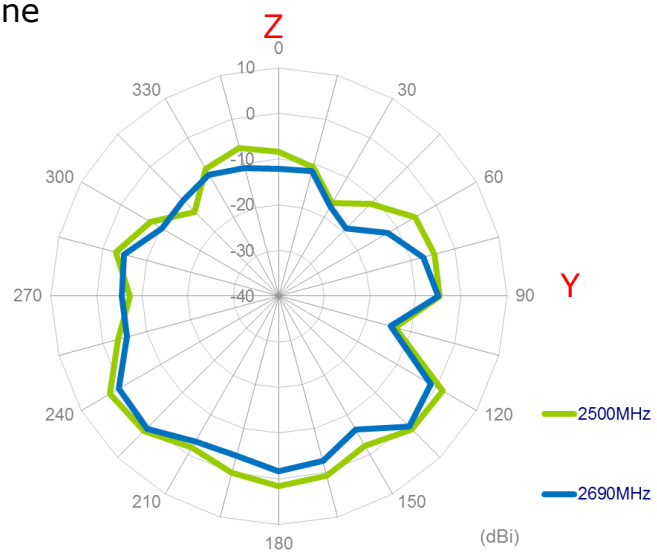

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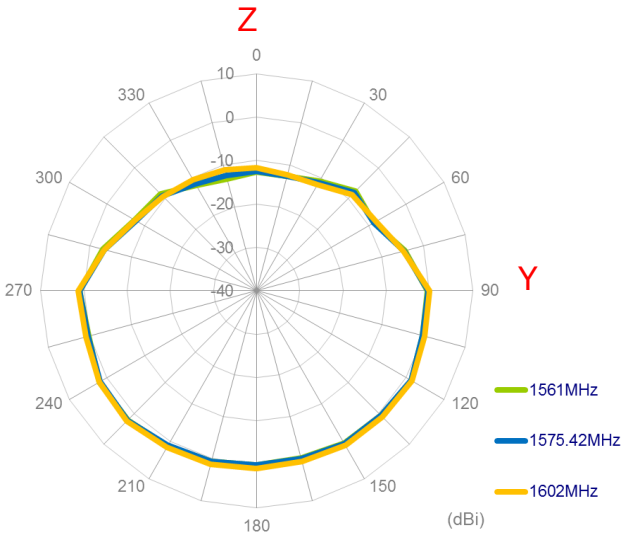
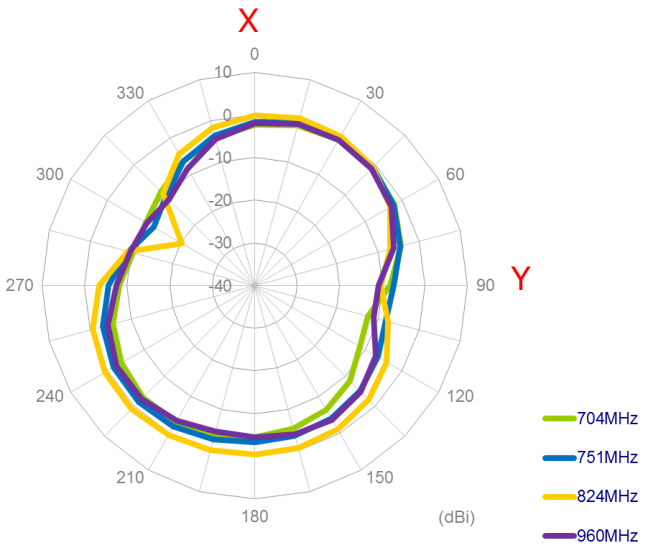
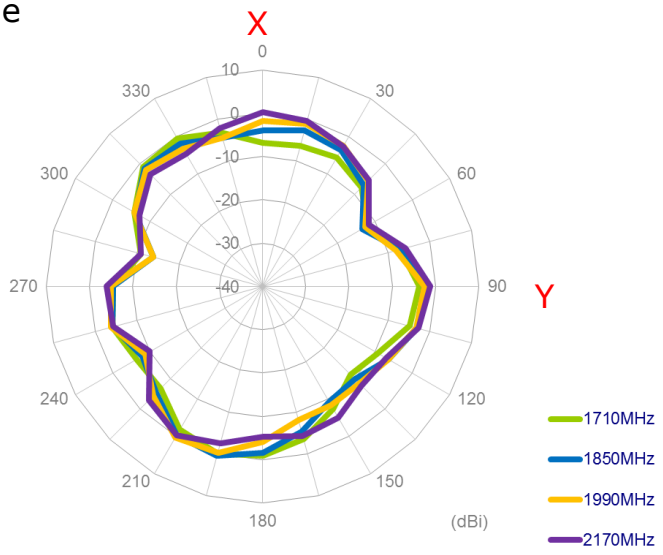


2D Radiation Pattern
(Bent Position with 15x9cm Ground)

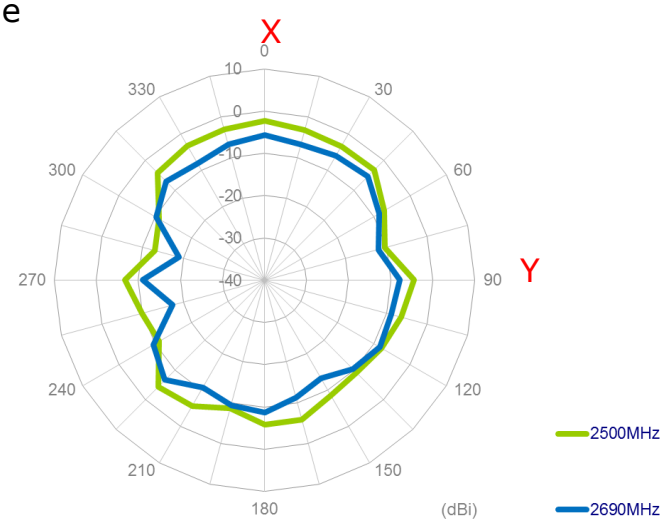
XY Plane



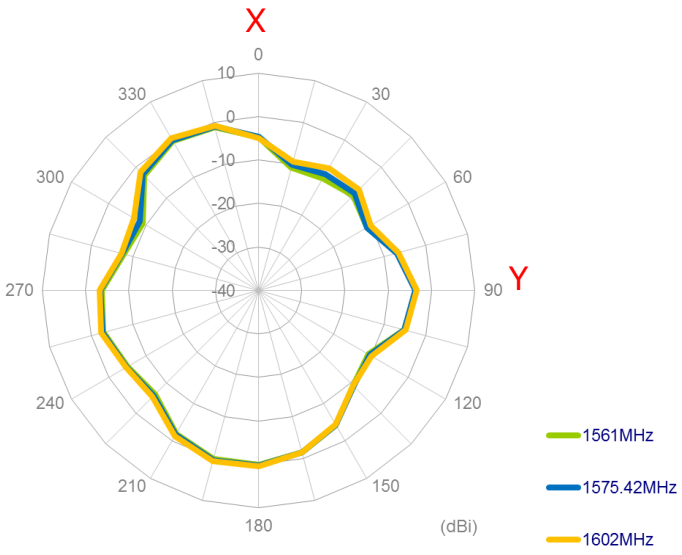
XY Plane



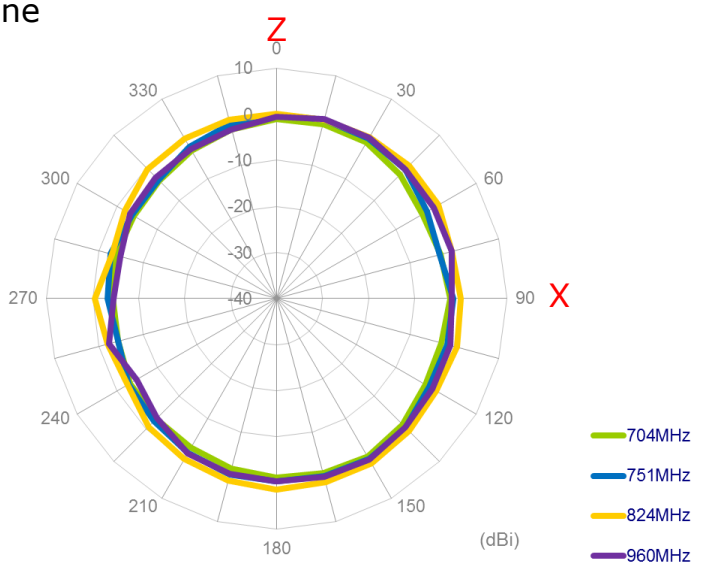
XY Plane



XY Plane



XZ Plane



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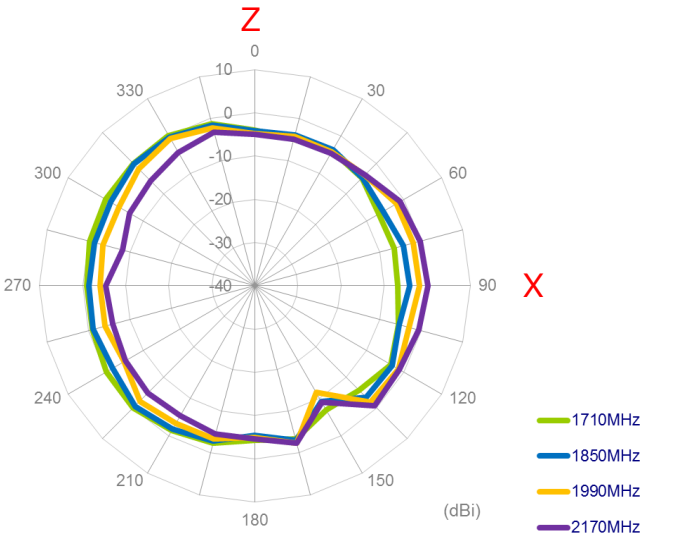

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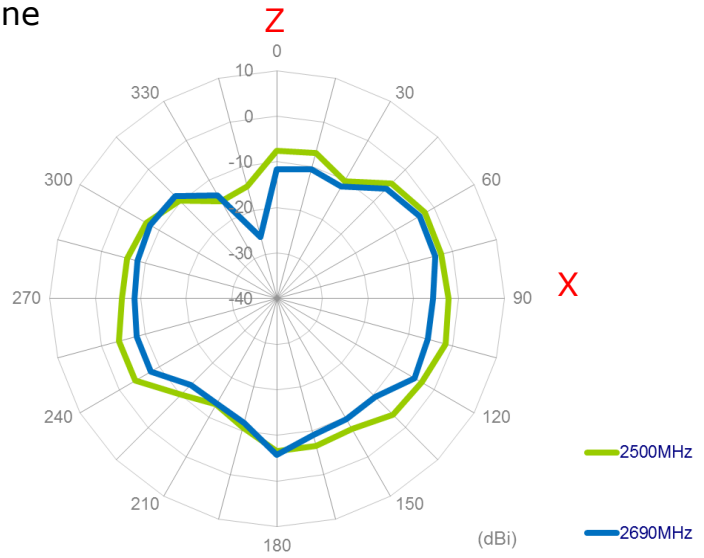

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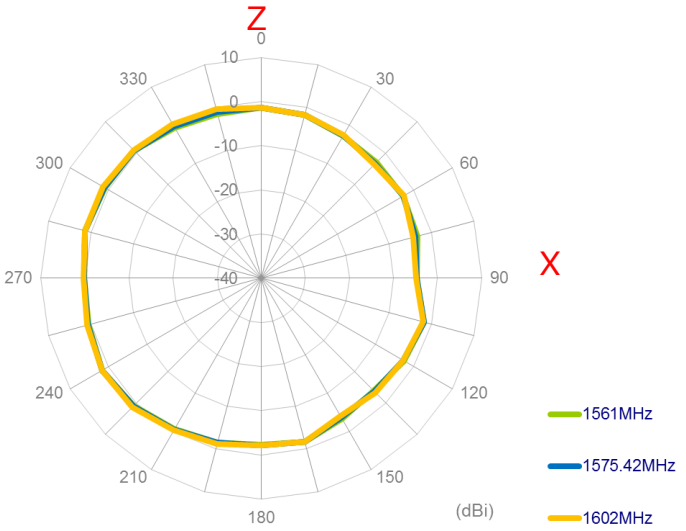
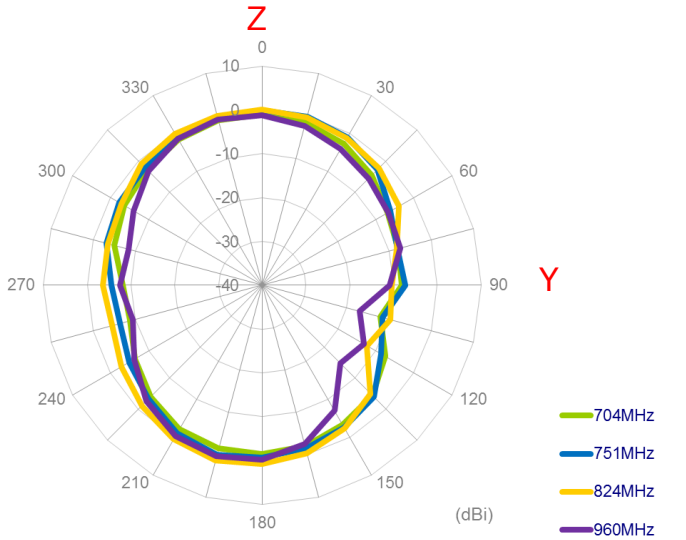
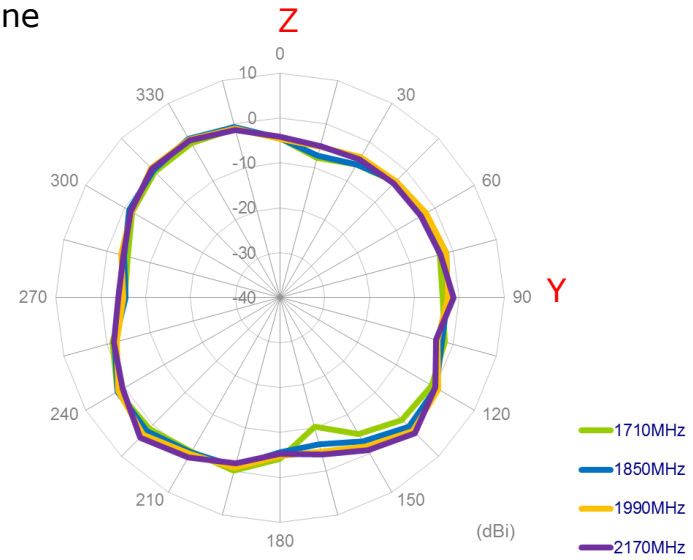


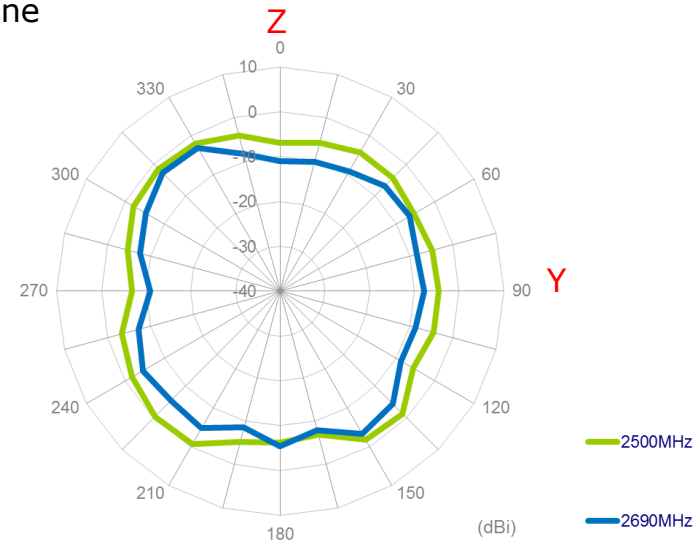
YZ Plane



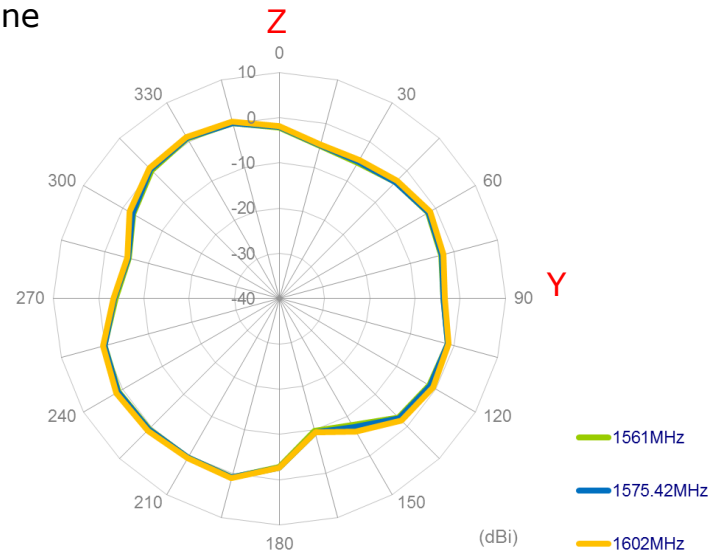
YZ Plane



YZ Plane

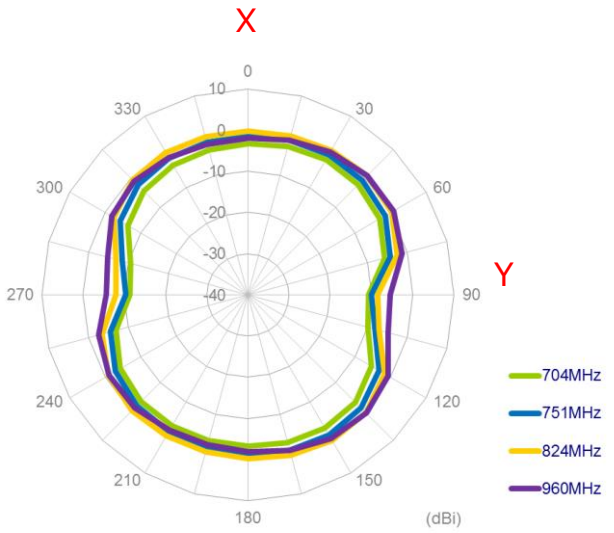


YZ Plane

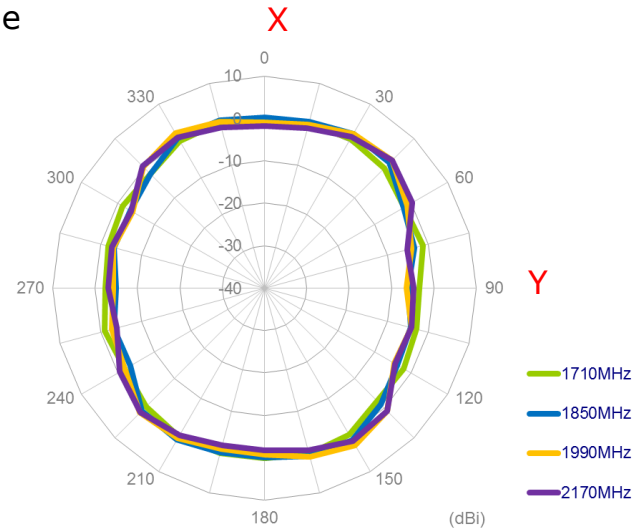


2D Radiation Pattern
(Bent Position with 30x30cm Metal Ground Edge)

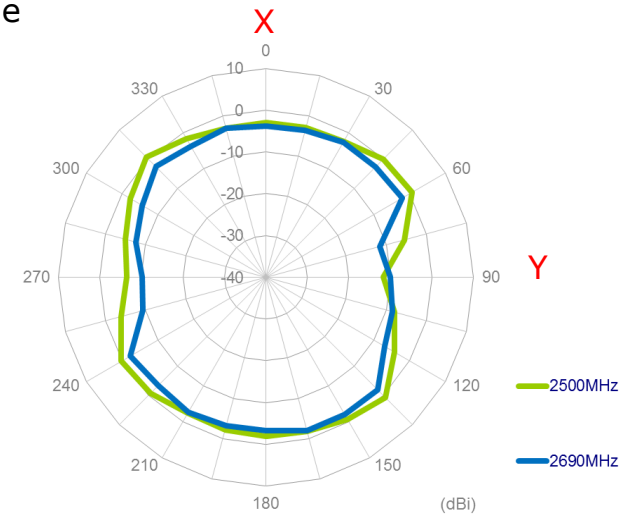
XY Plane



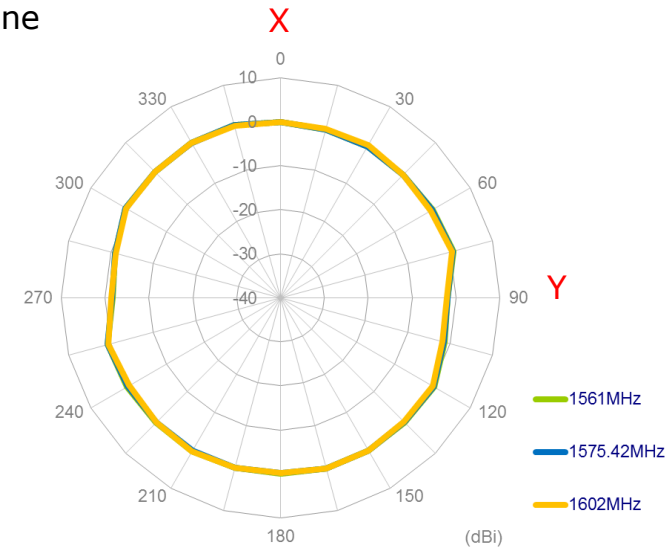
XY Plane



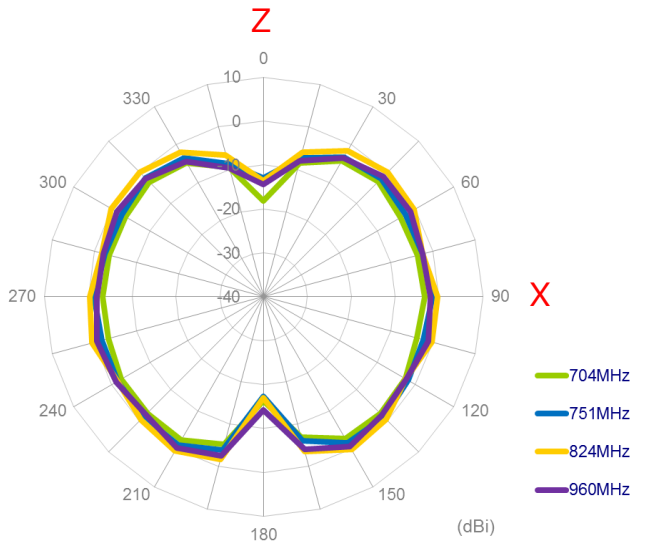
XY Plane



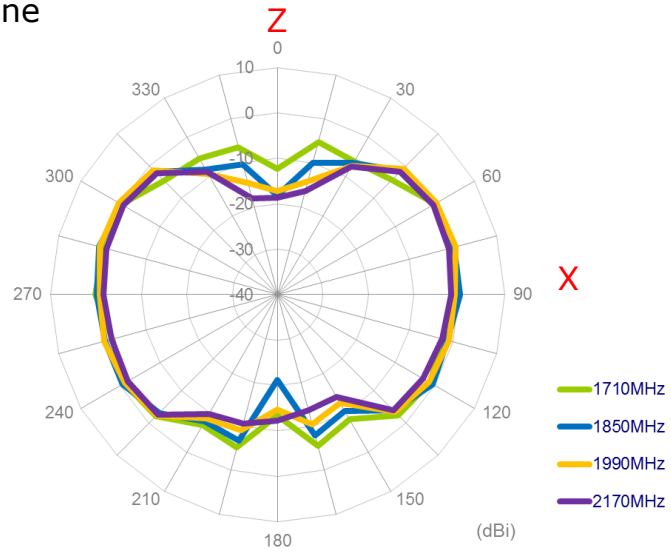
XY Plane



XZ Plane



XZ Plane



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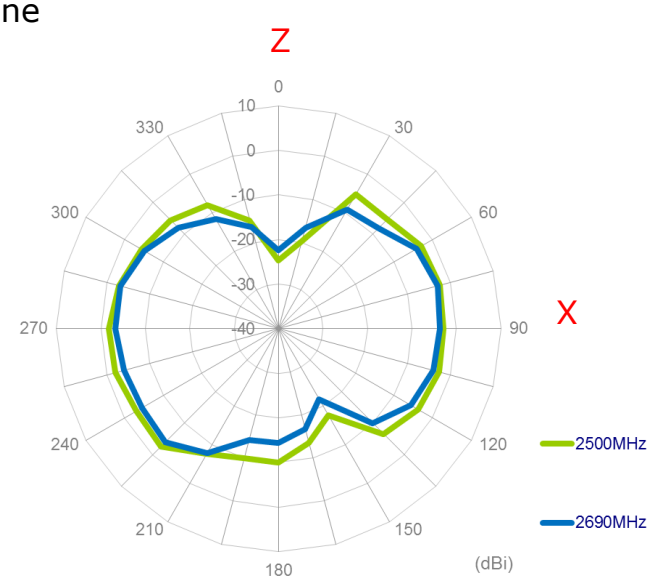

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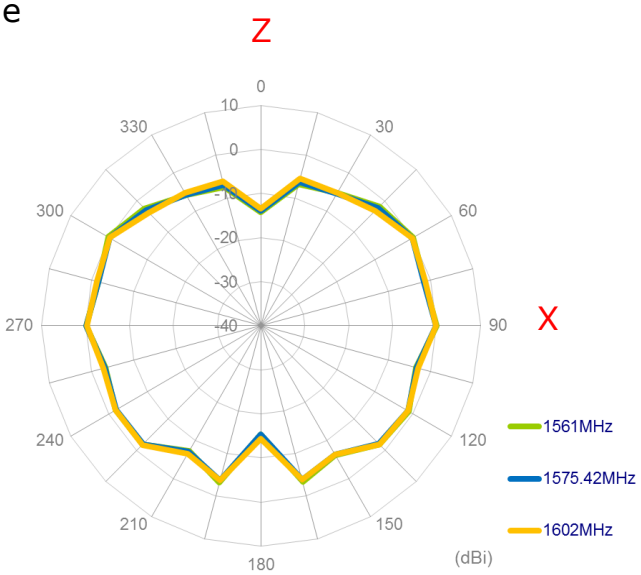
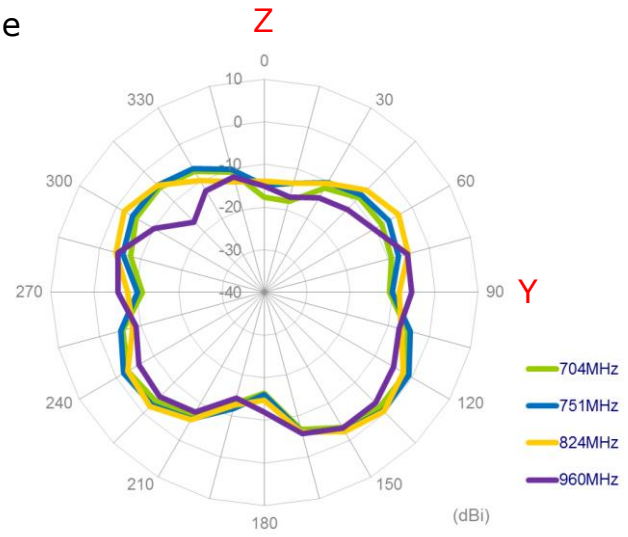
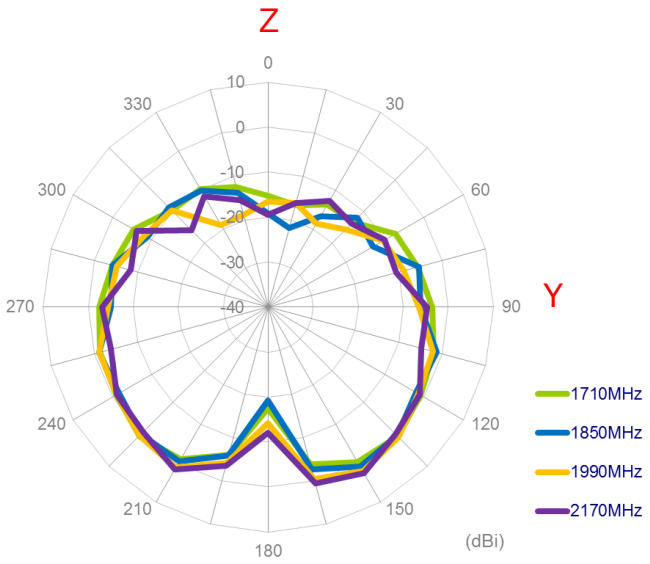


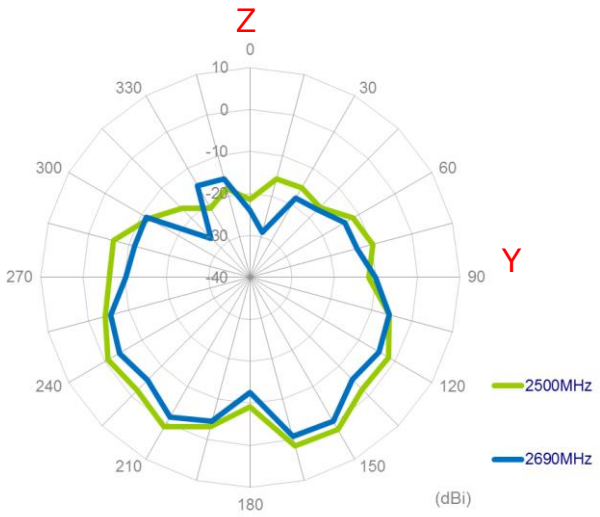
YZ Plane



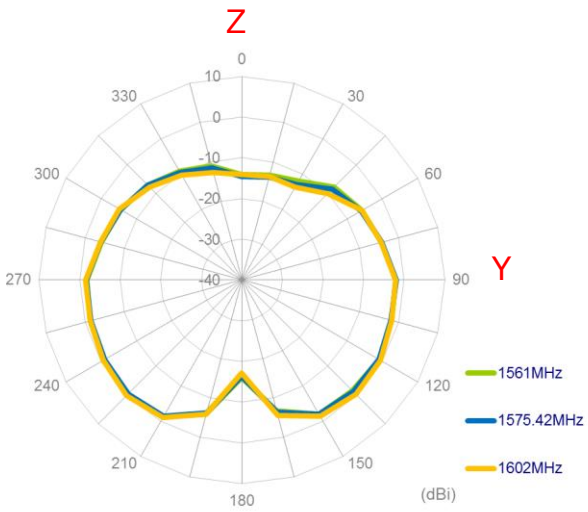
YZ Plane



YZ Plane



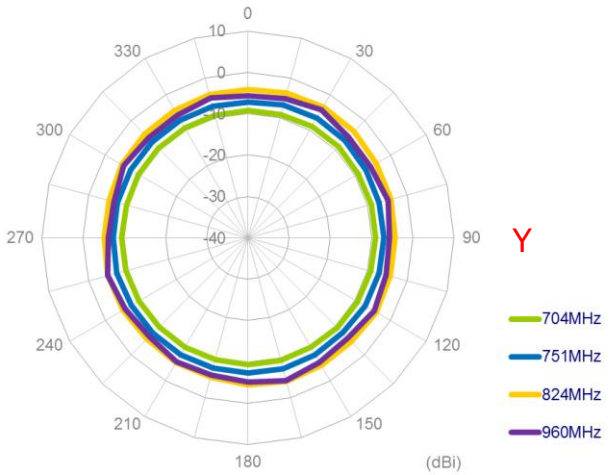
YZ Plane



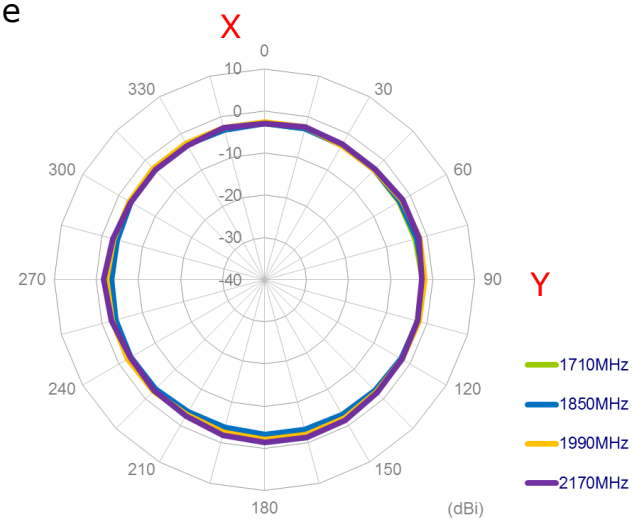
2D Radiation Pattern
(Bent Position with 30*30cm Metal Ground Center)

X

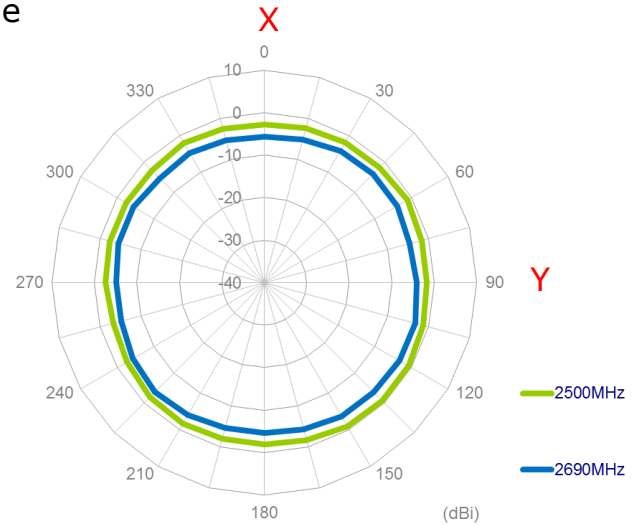
XY Plane



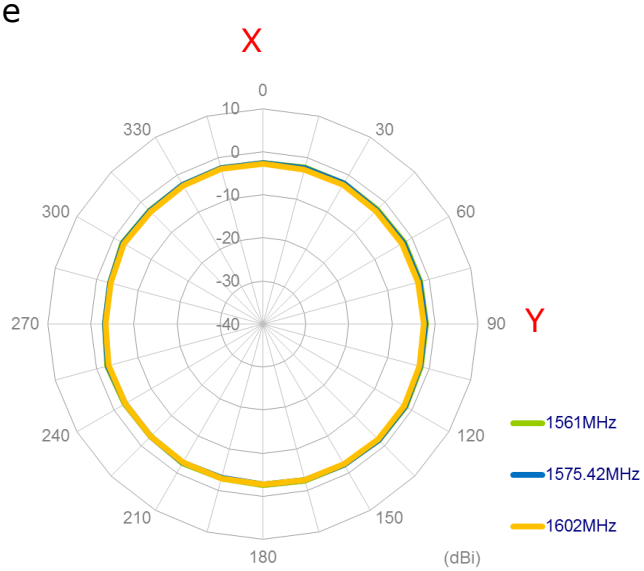
XY Plane



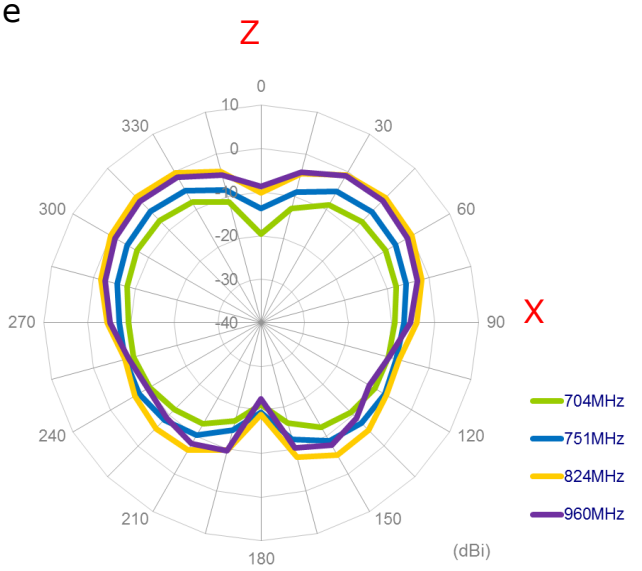
XY Plane



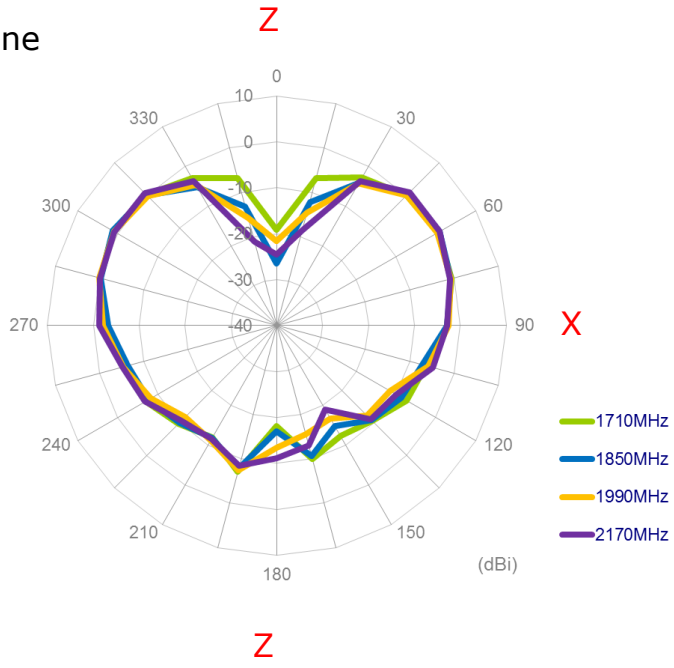
XY Plane



XZ Plane

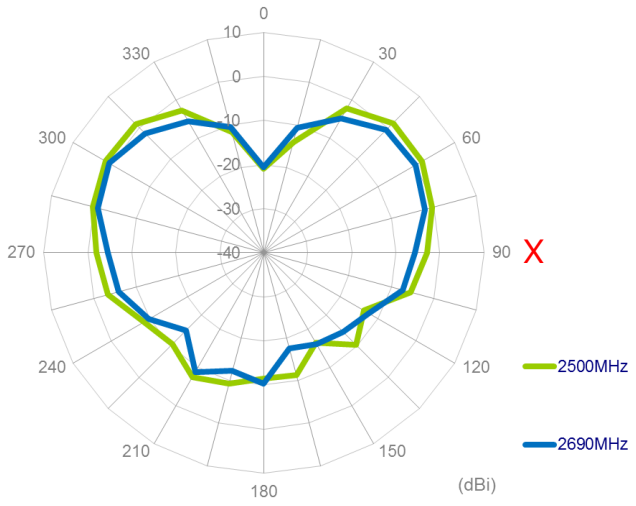


XZ Plane

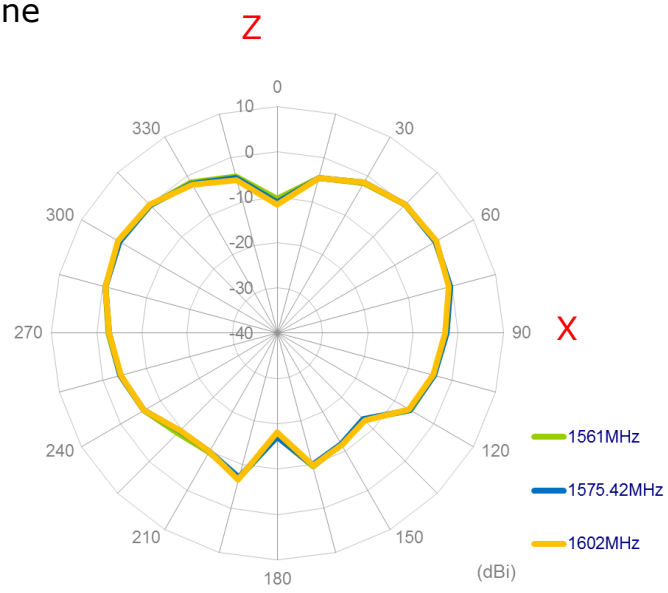


Z

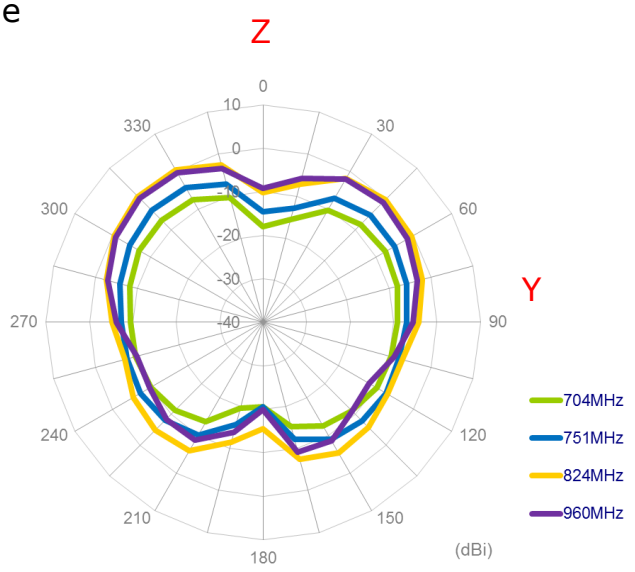
XZ Plane



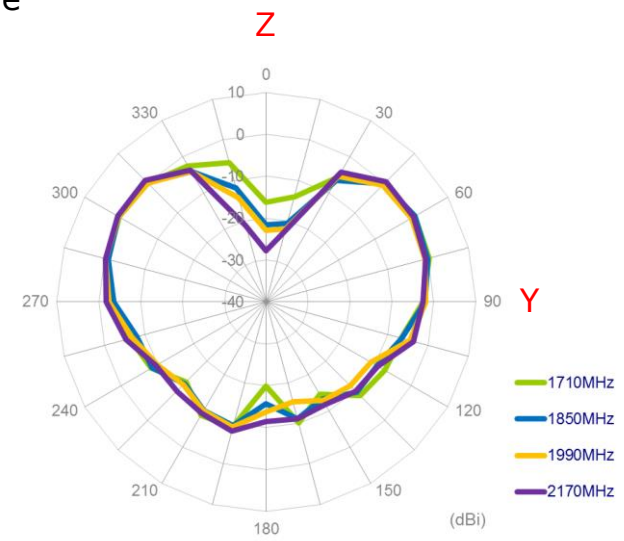
XZ Plane



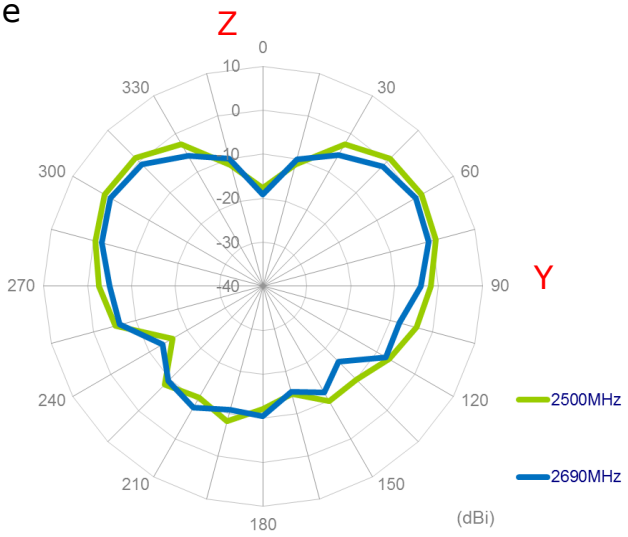
YZ Plane



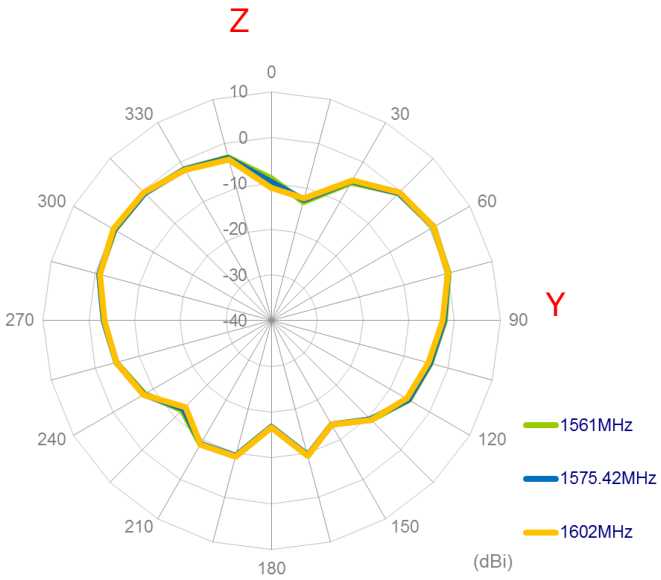
YZ Plane



YZ Plane

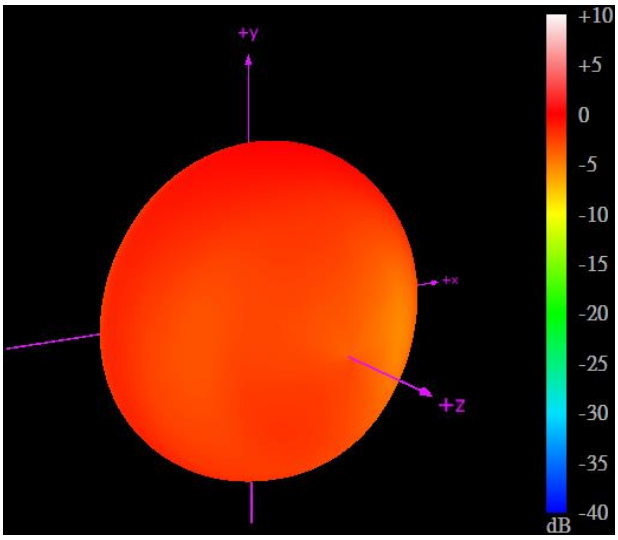


YZ Plane

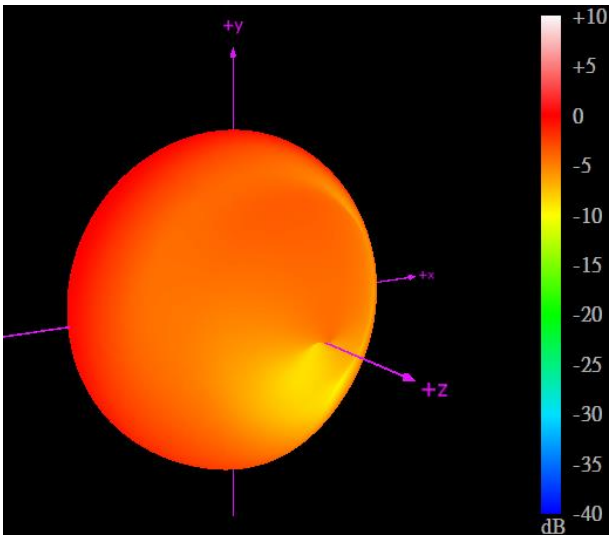


3D Radiation Pattern
(Straight Position in Free Space)

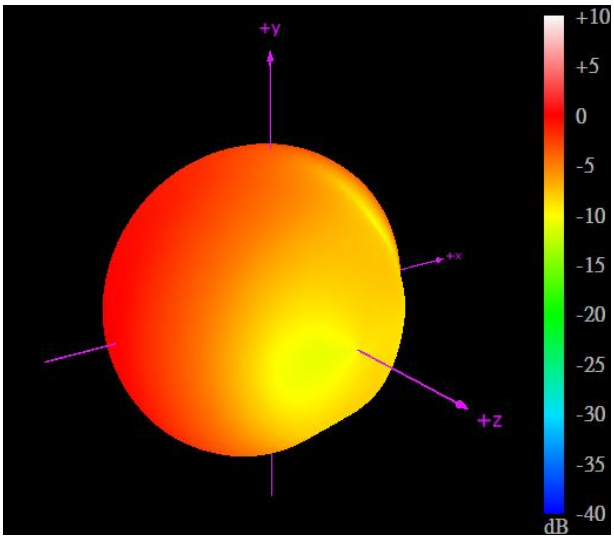
704MHz



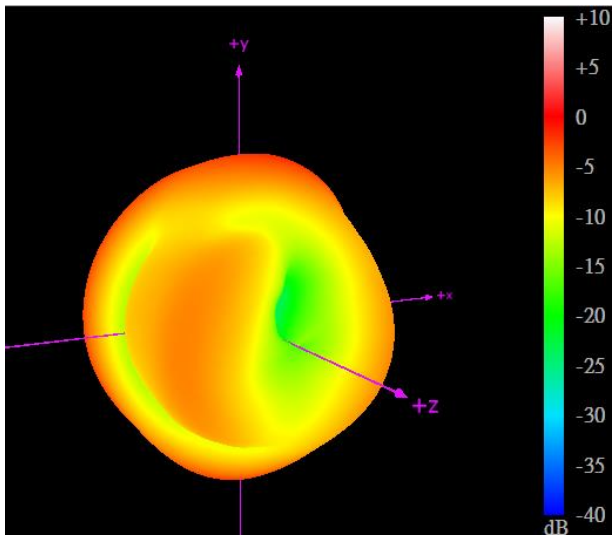
824MHz



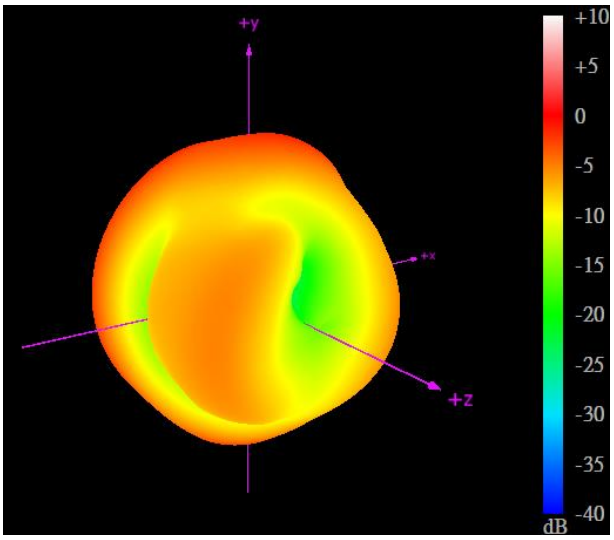
960MHz



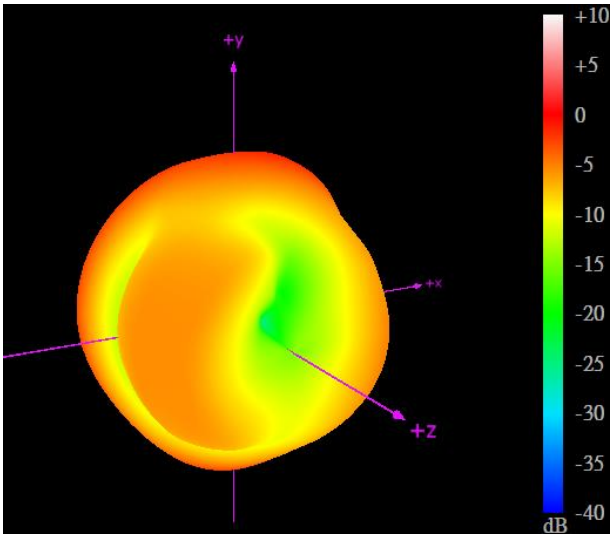
1561MHz



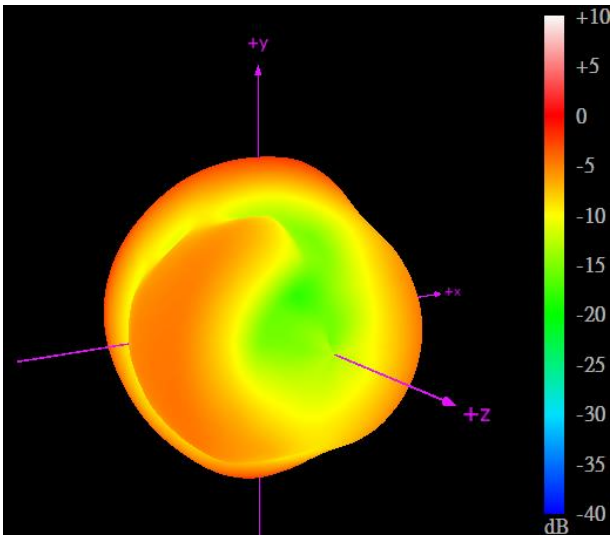
1575.42MHz



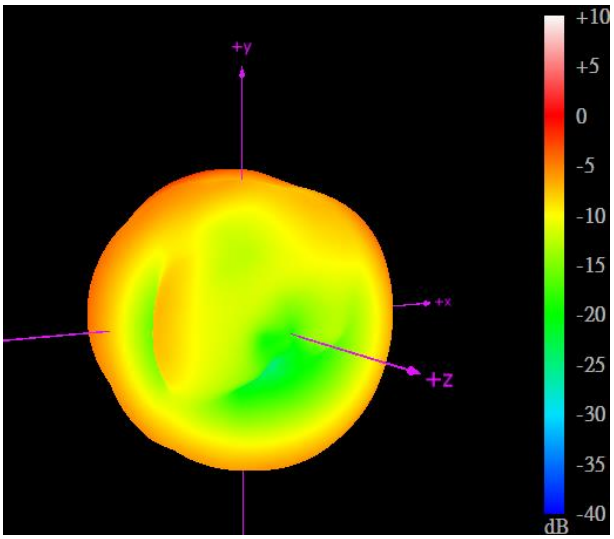
1602MHz



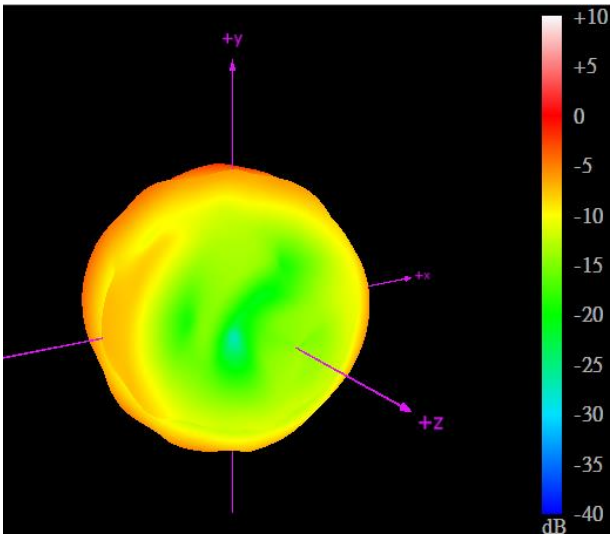
1710MHz



2170MHz

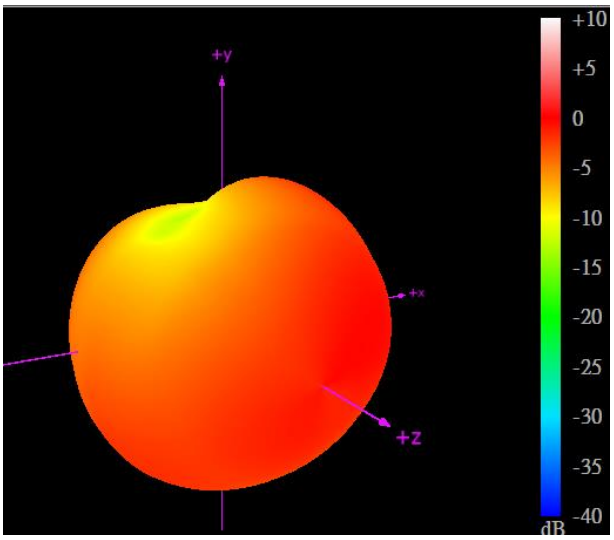


2690MHz

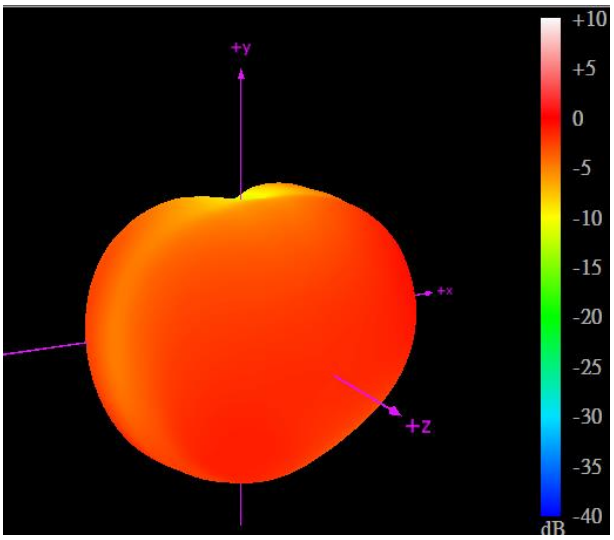


3D Radiation Pattern
(Straight Position with 15x9cm Ground)

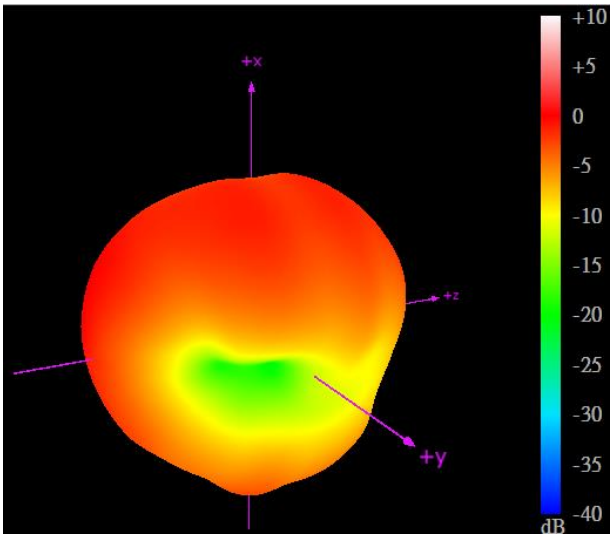
704MHz



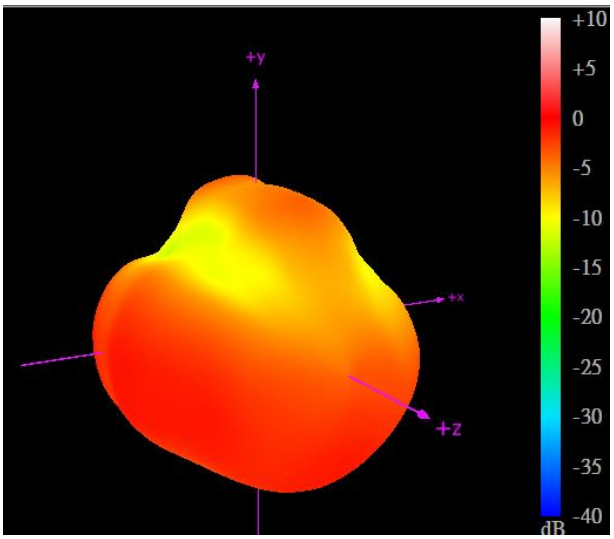
824MHz



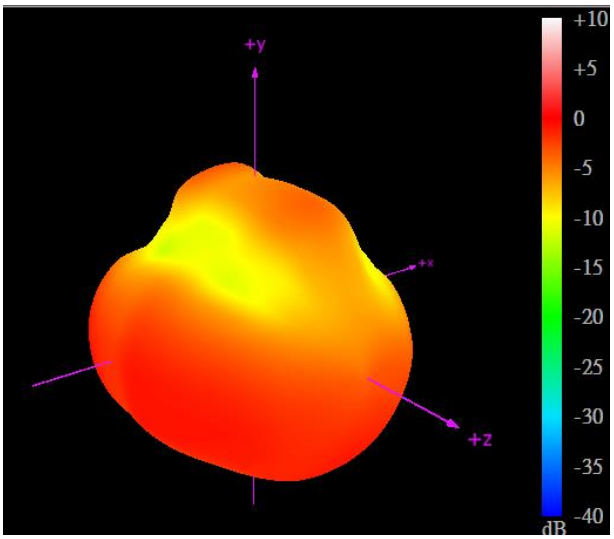
960MHz



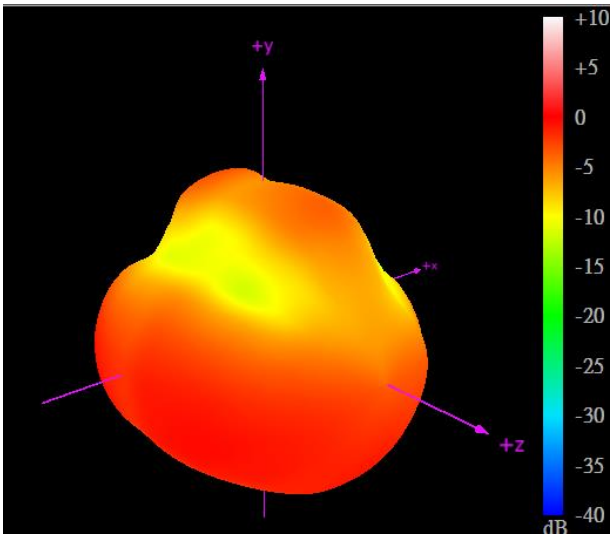
1561MHz



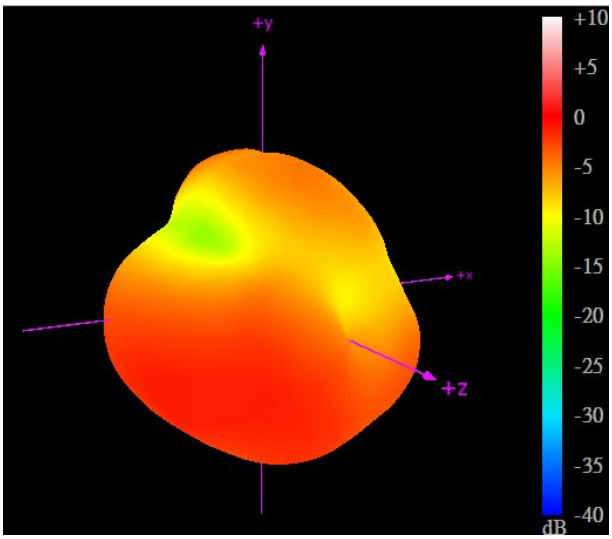
1575.42MHz



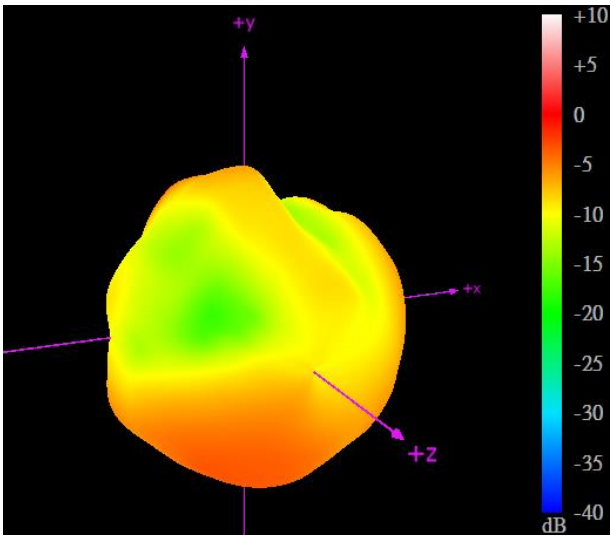
1602MHz



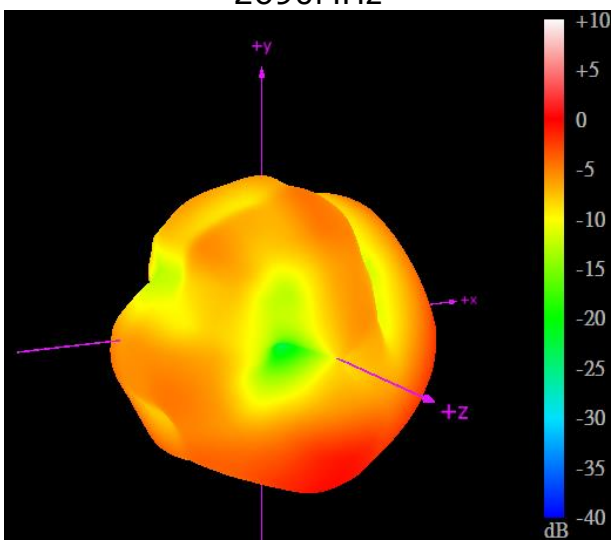
1710MHz



2170MHz

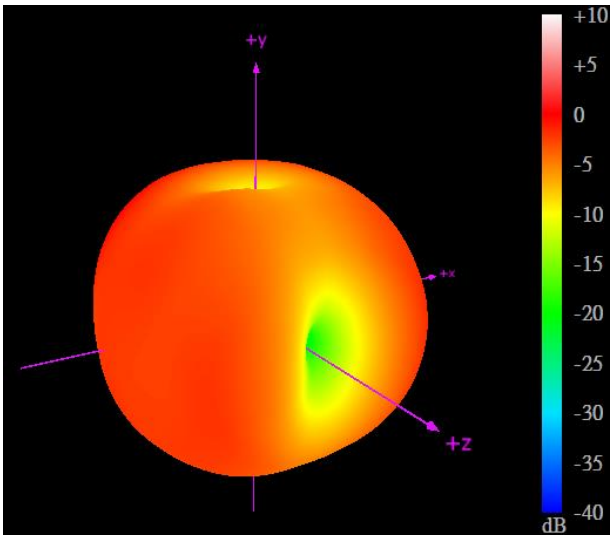


2690MHz

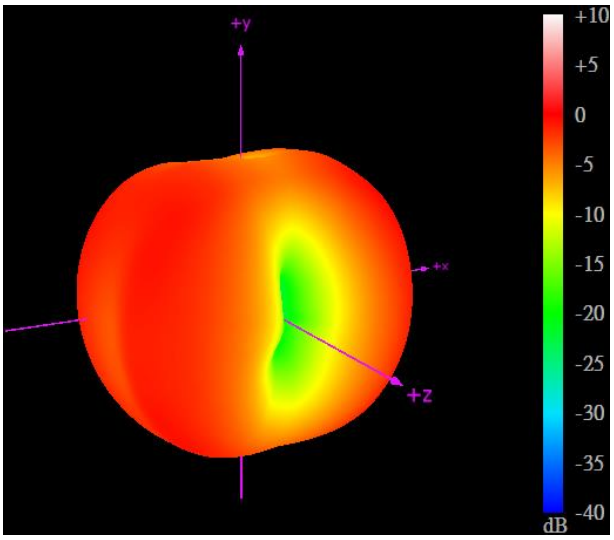


3D Radiation Pattern
(Straight Position with 30x30cm Metal Ground Edge)

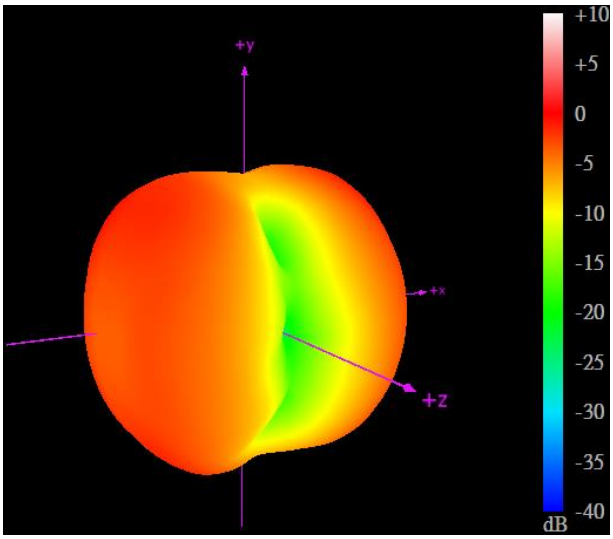
704MHz



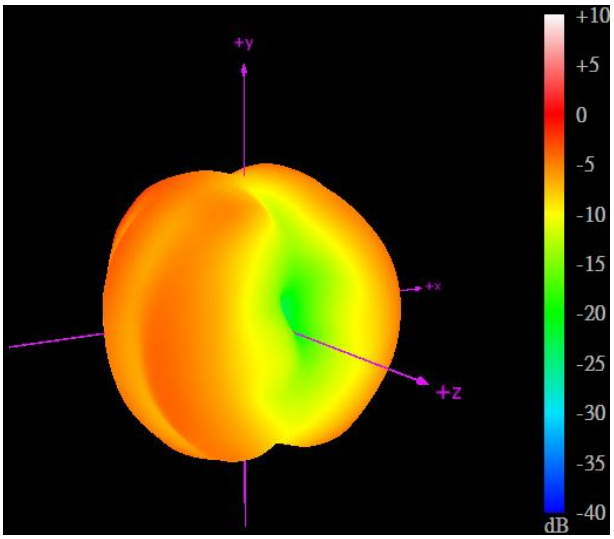
824MHz



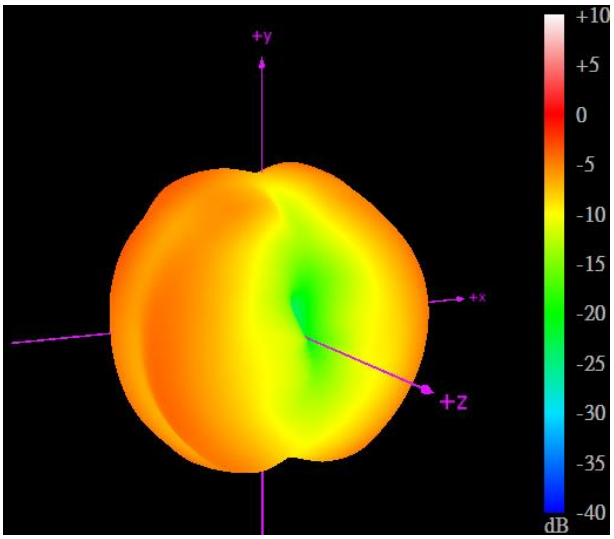
960MHz



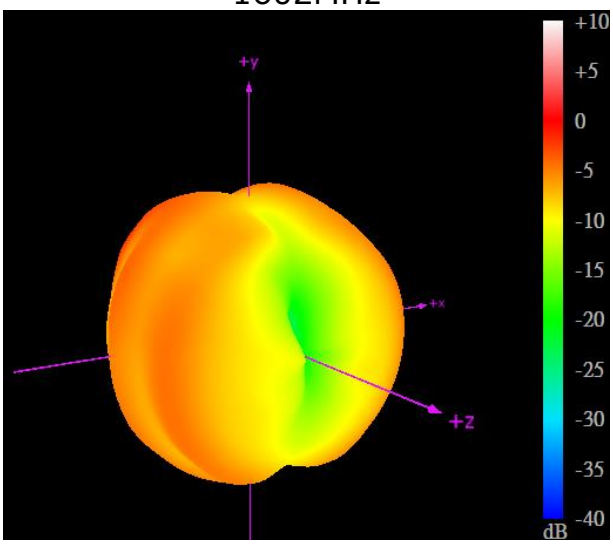
1561MHz



1575.42MHz



1602MHz



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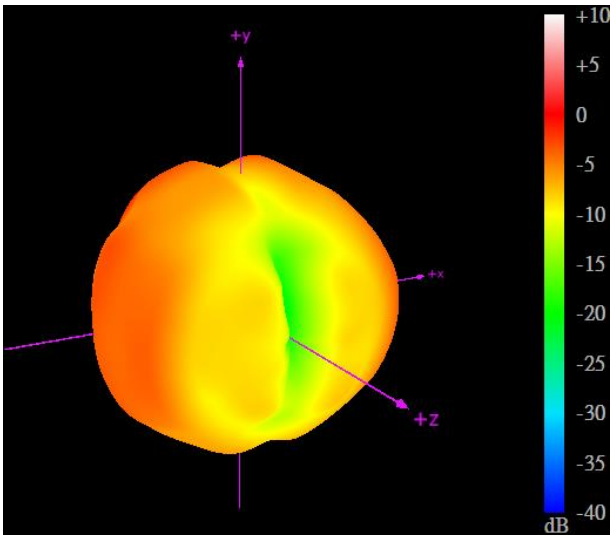
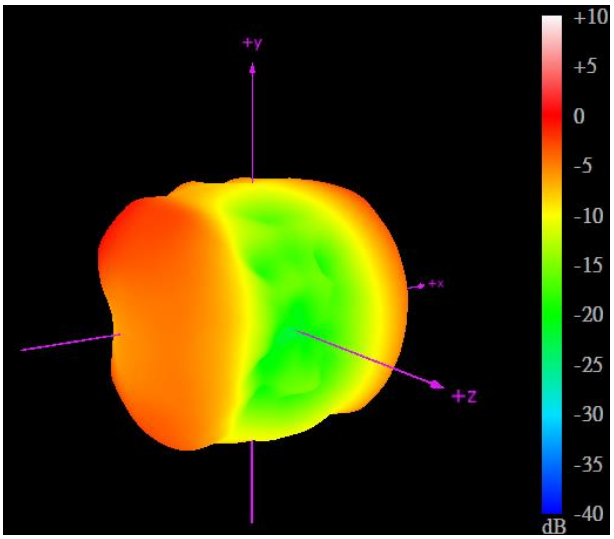
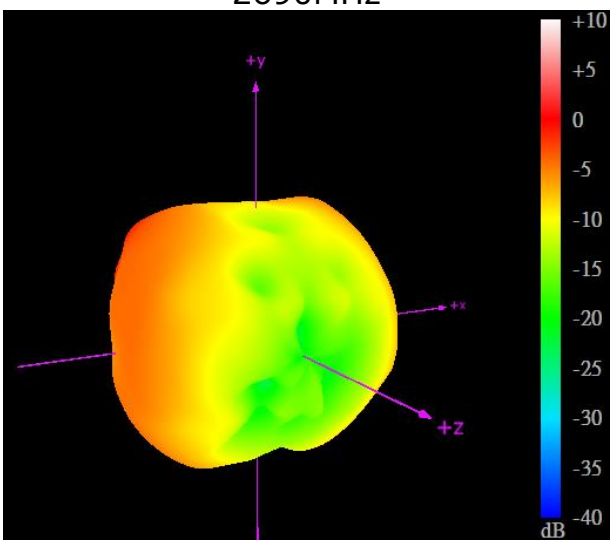


2170MHz

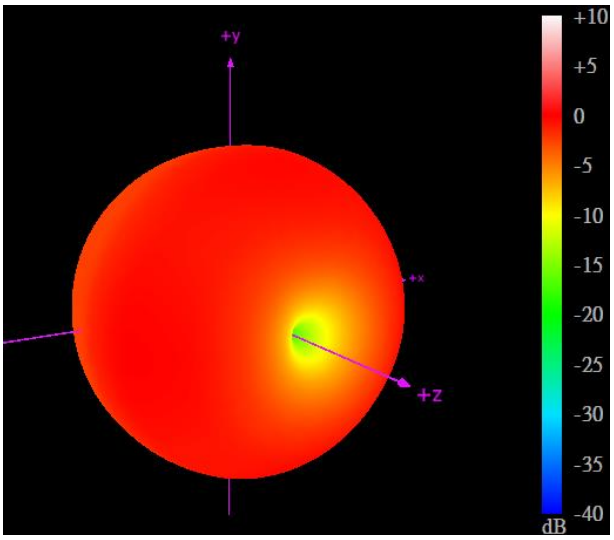


2690MHz

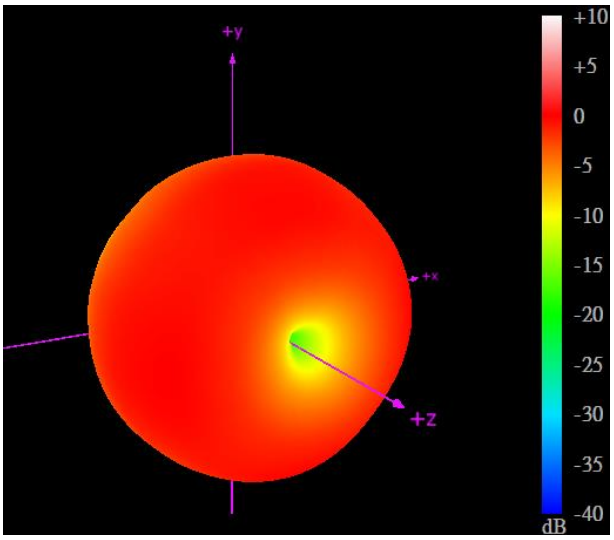


3D Radiation Pattern
(Straight Position with 30x30cm Metal Ground Center)

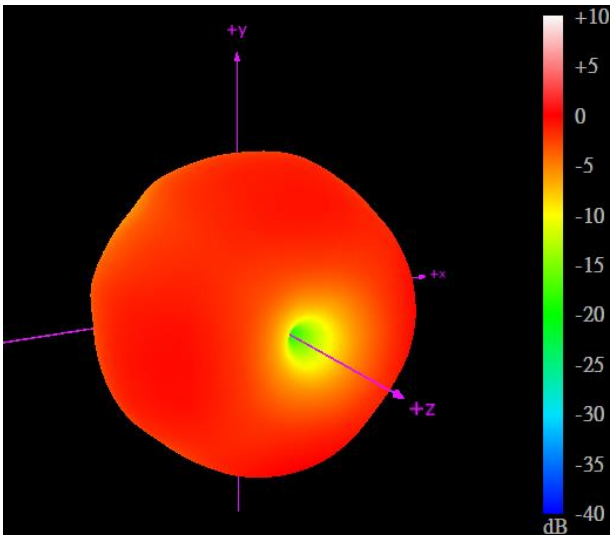
704MHz



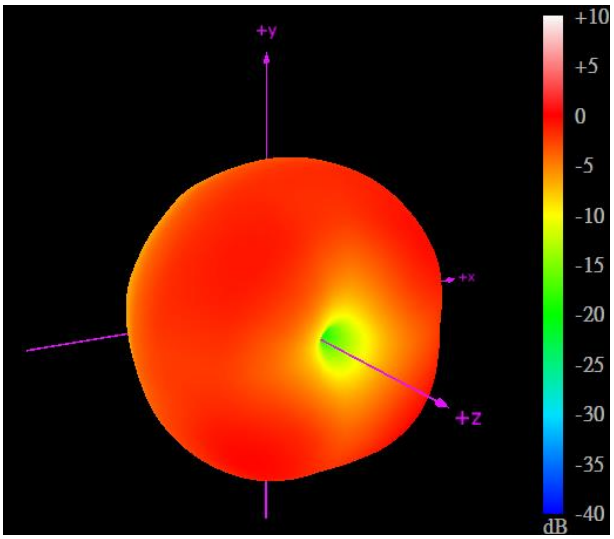
824MHz



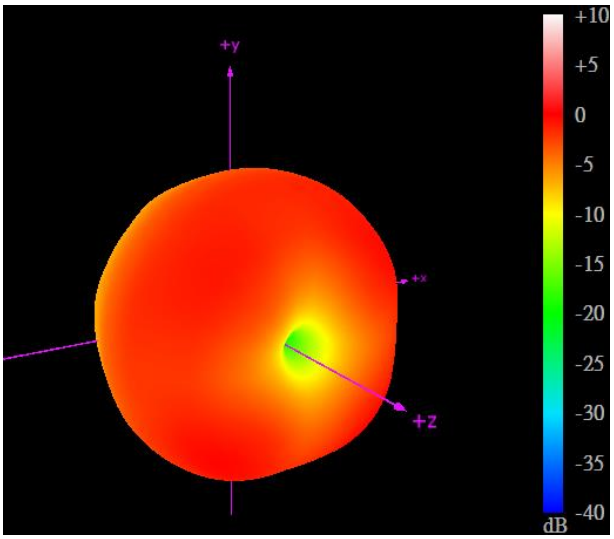
960MHz



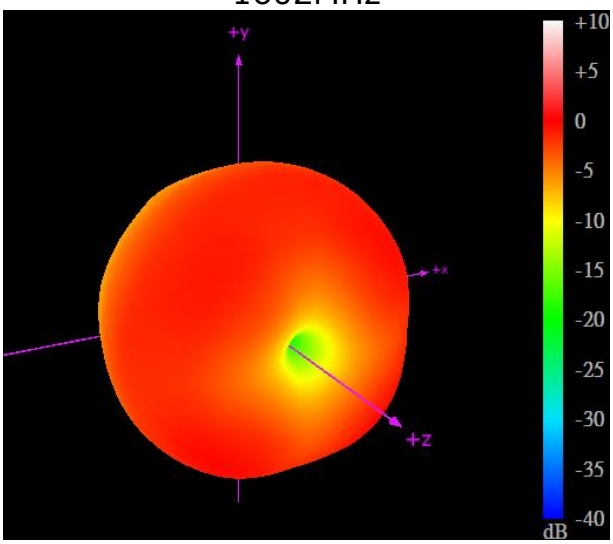
1561MHz



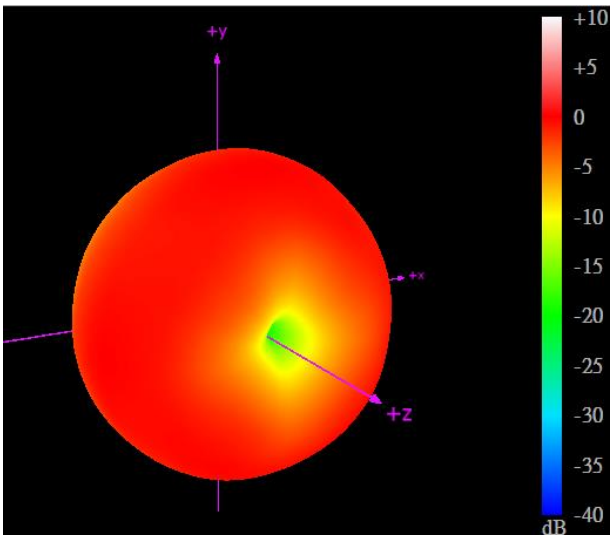
1575.42MHz



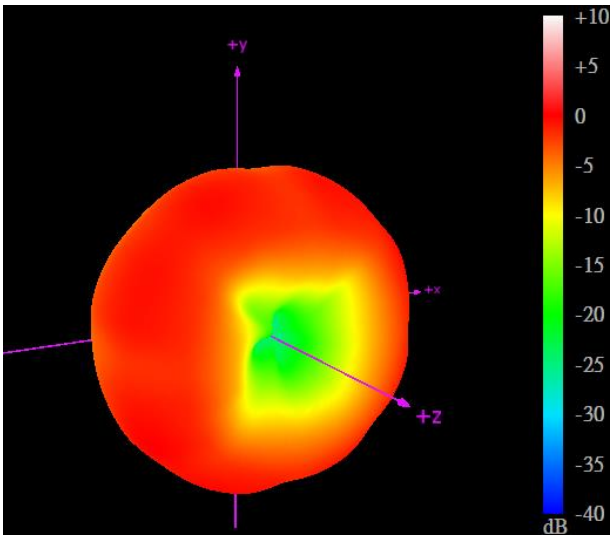
1602MHz



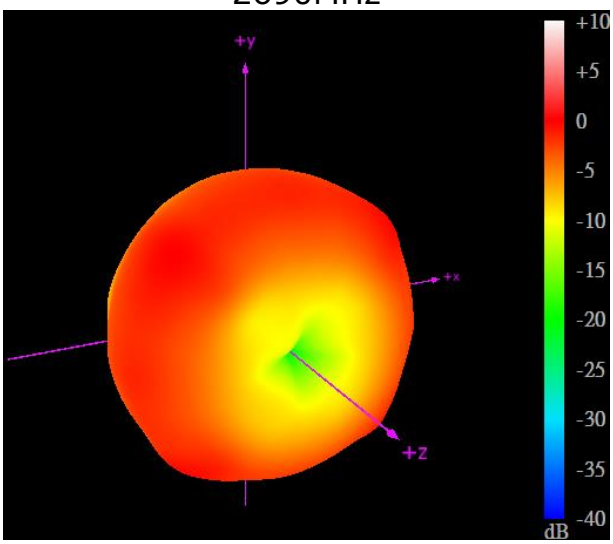
1710MHz



2170MHz

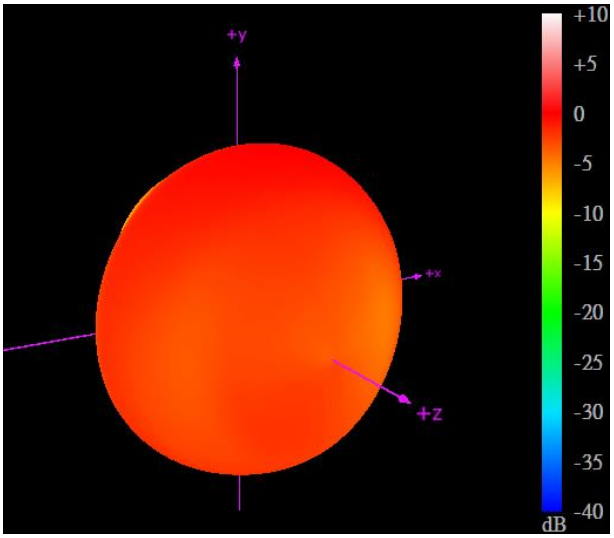


2690MHz

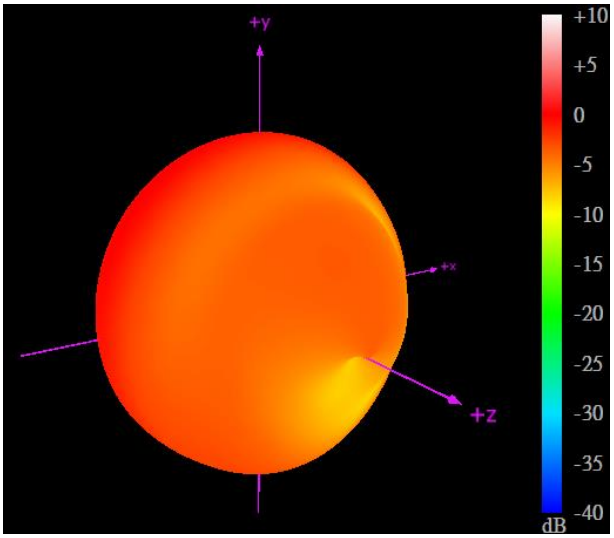


3D Radiation Pattern
(Bent Position with in Free Space)

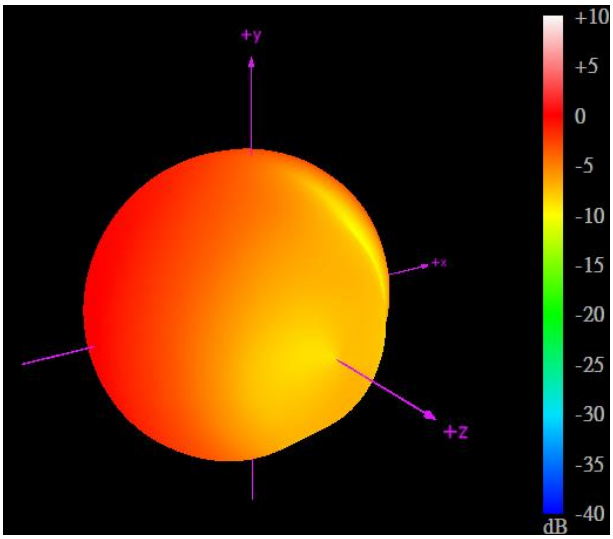
704MHz



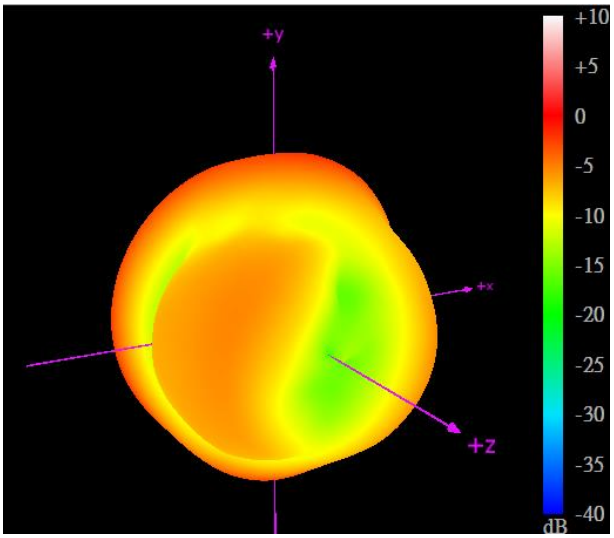
824MHz



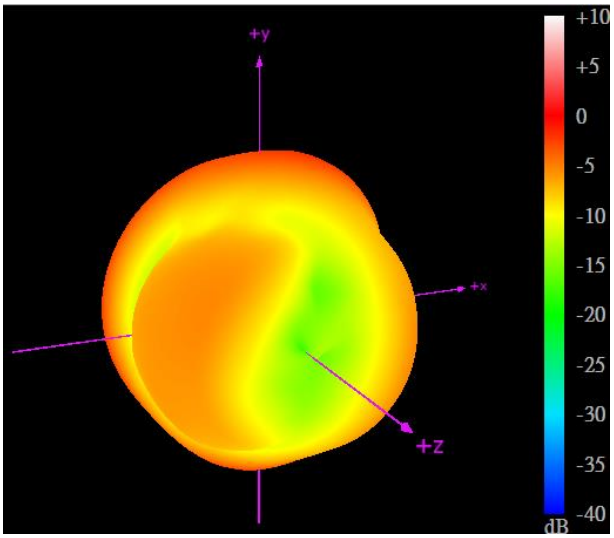
960MHz



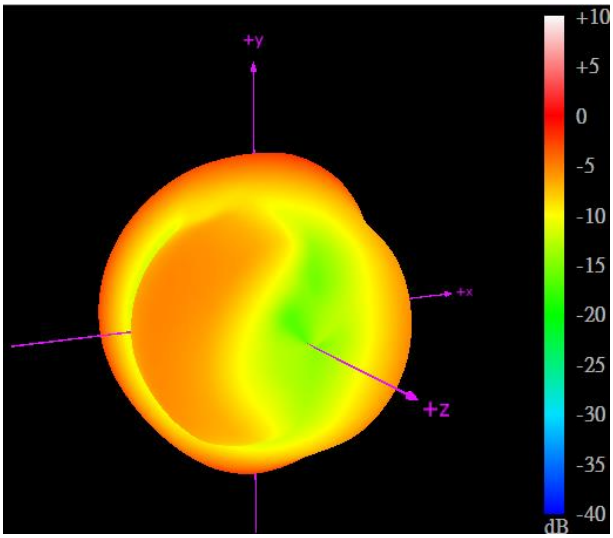
1561MHz



1575.42MHz



1602MHz



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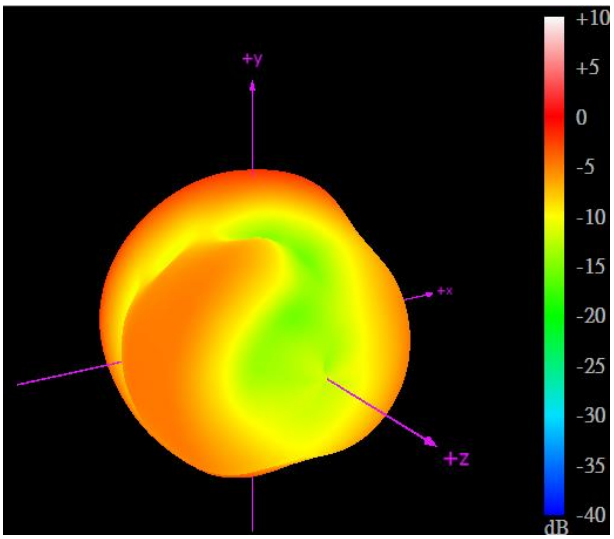
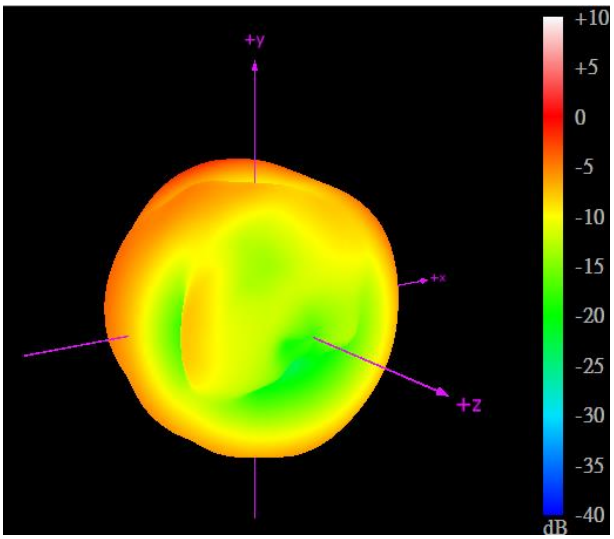
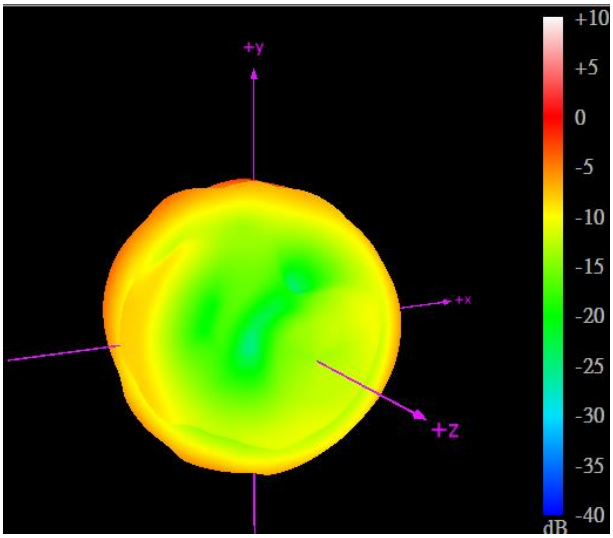


2170MHz

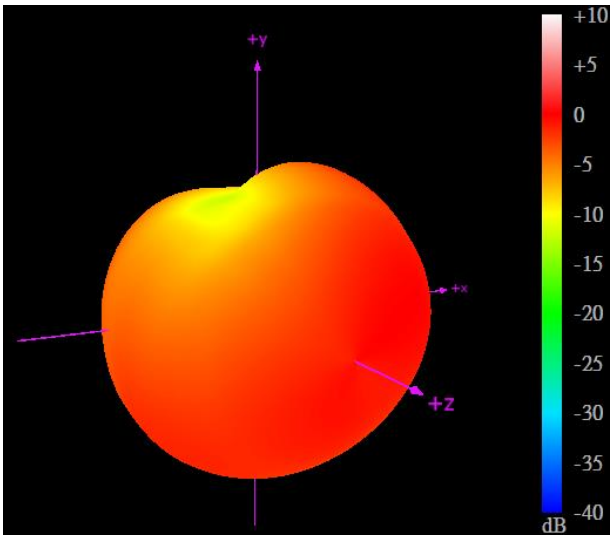


2690MHz

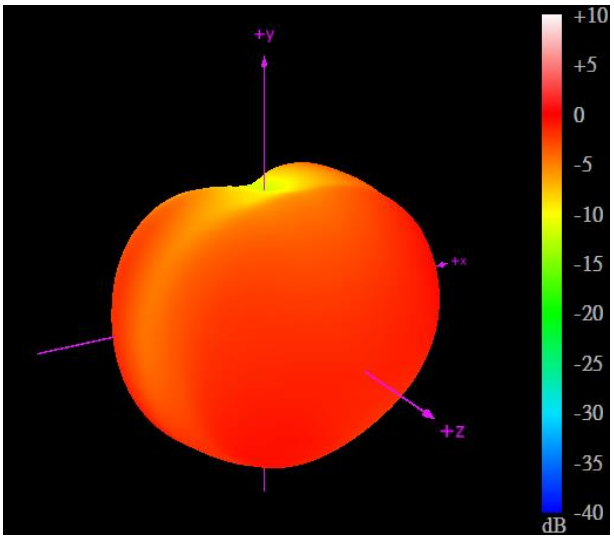


3D Radiation Pattern
(Bent Position with 15x9cm Ground)

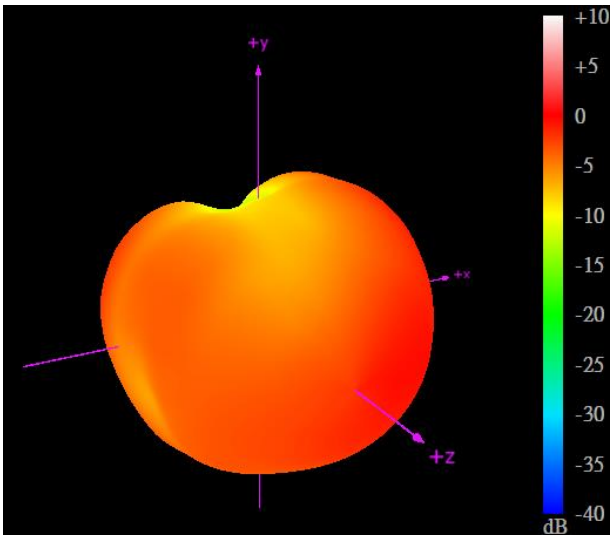
704MHz



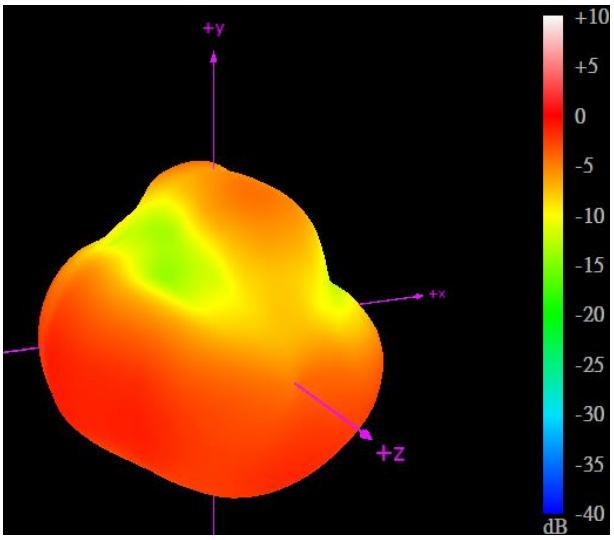
824MHz



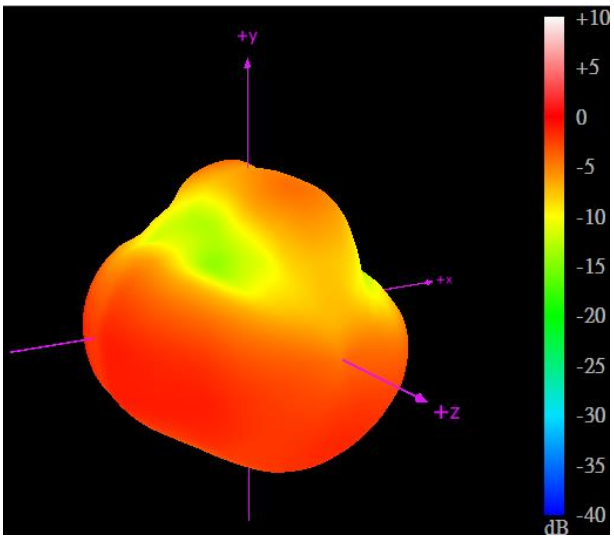
960MHz



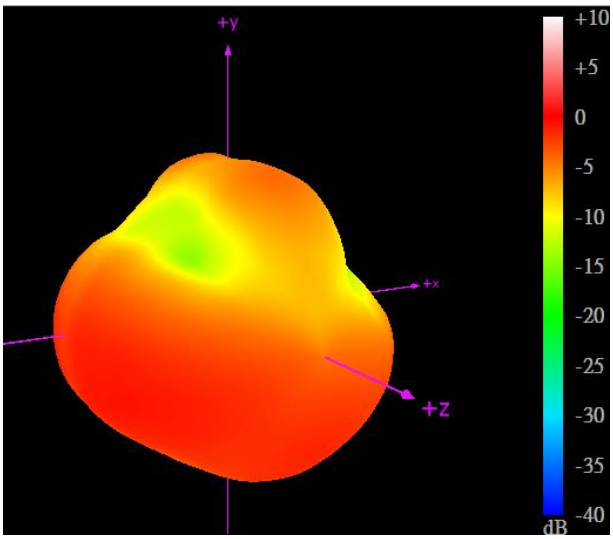
1561MHz



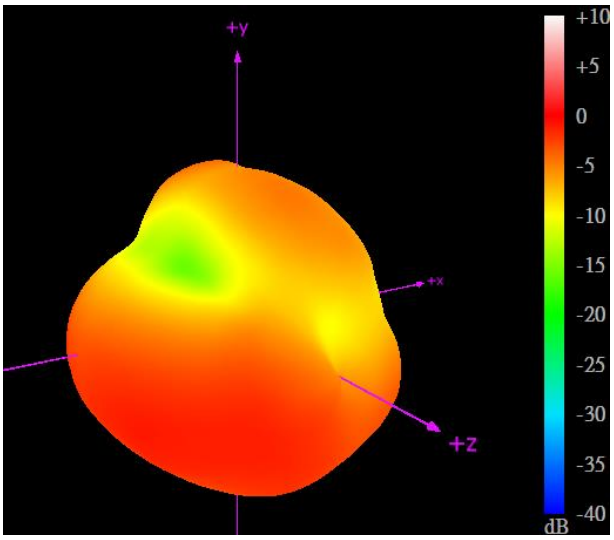
1575.42MHz



1602MHz



1710MHz



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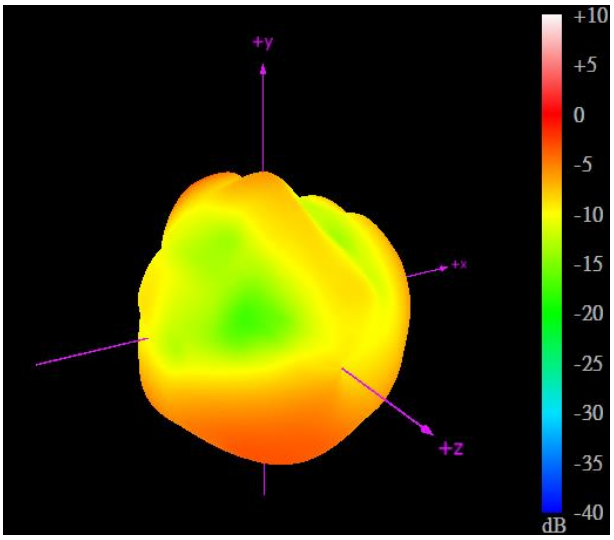
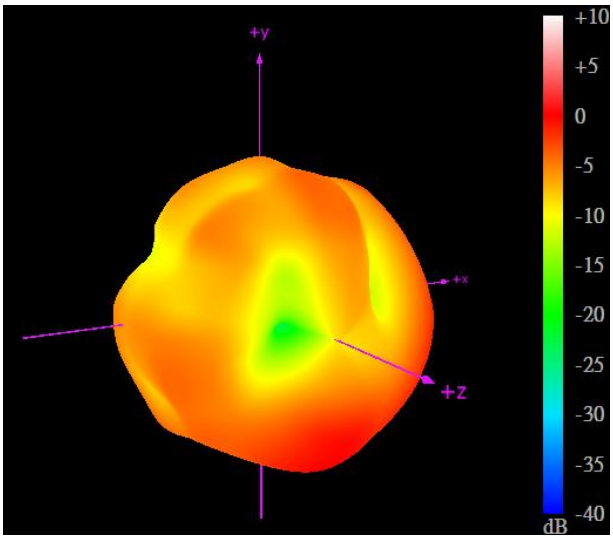
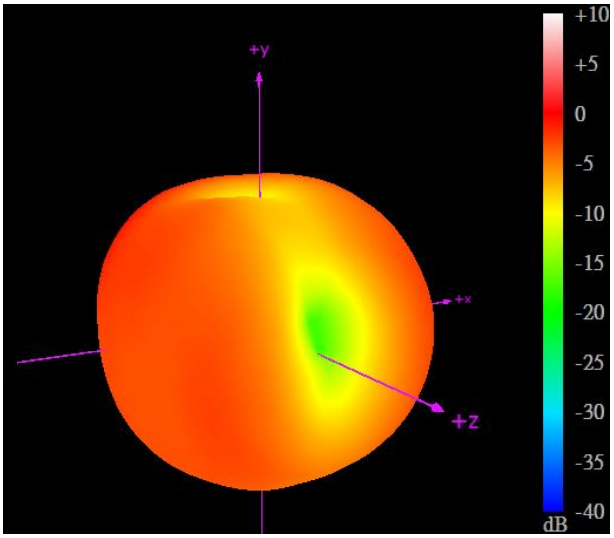


2690MHz

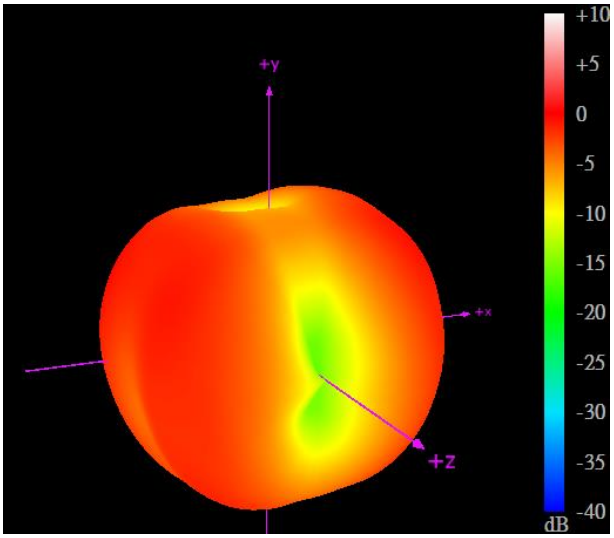


3D Radiation Pattern
(Bent Position with 30x30cm Metal Ground Edge)

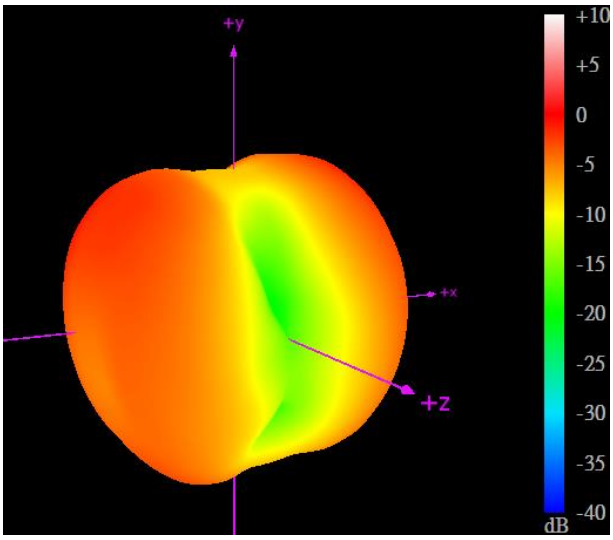
704MHz



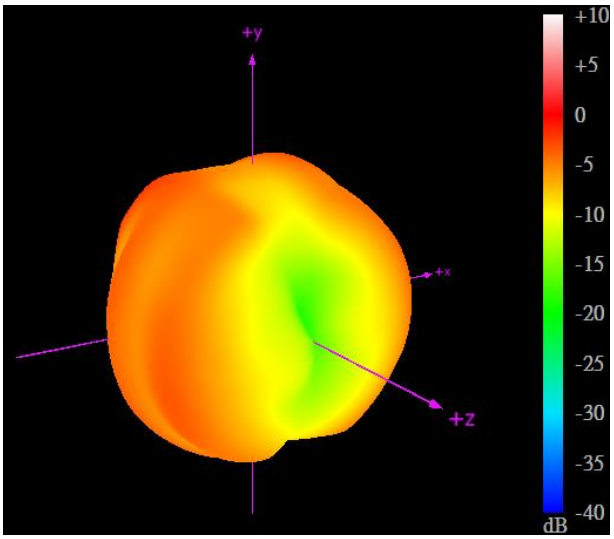
824MHz



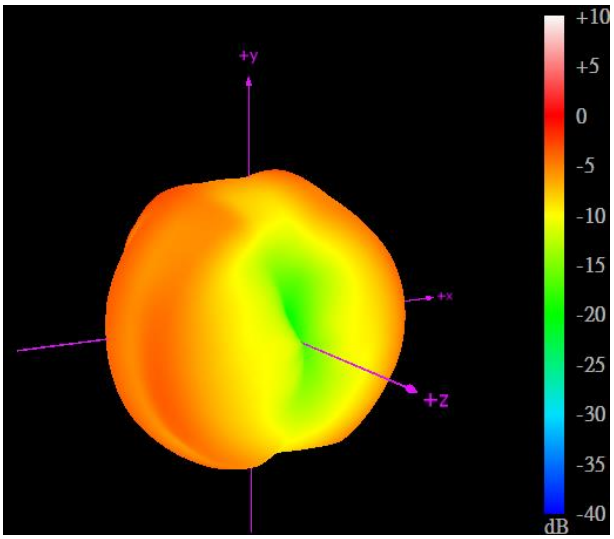
960MHz



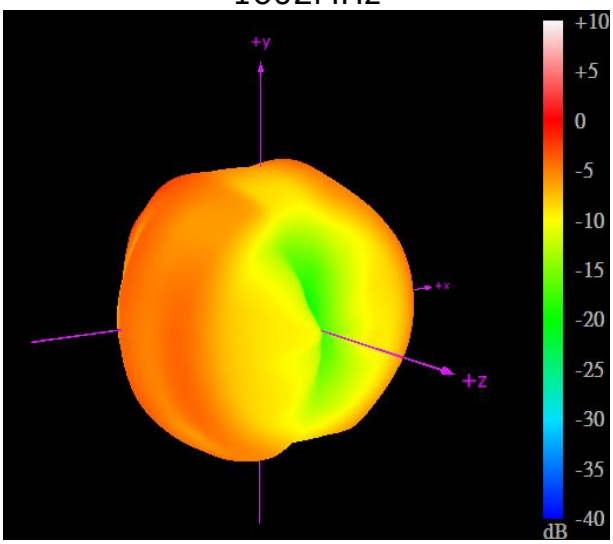
1561MHz



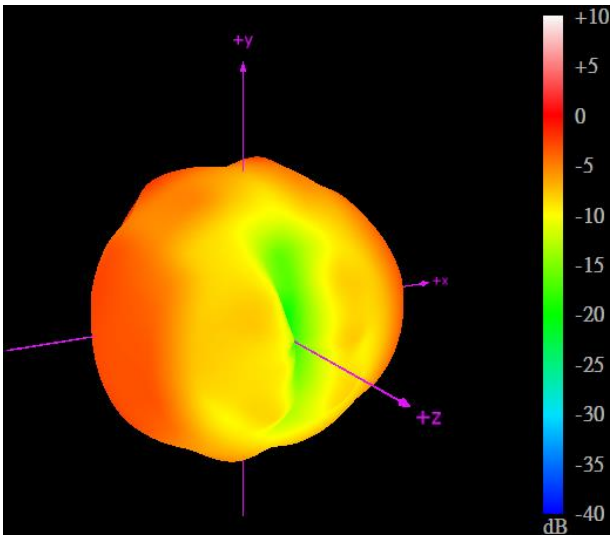
1575.42MHz



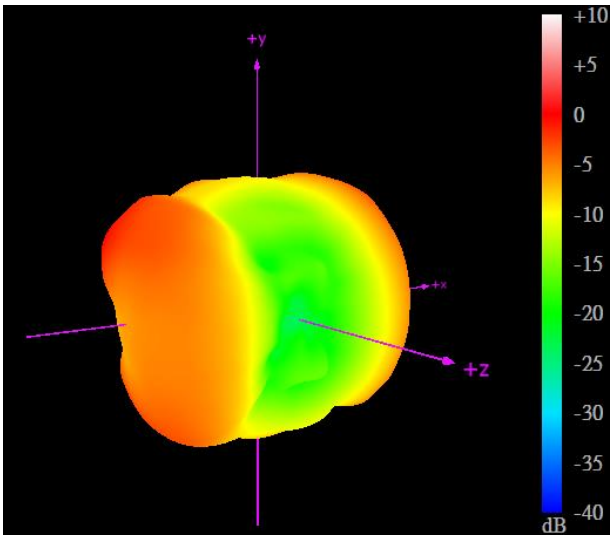
1602MHz



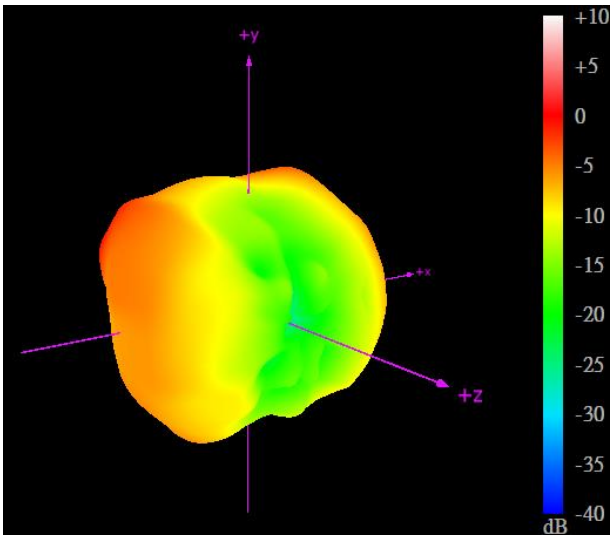
1710MHz



2170MHz

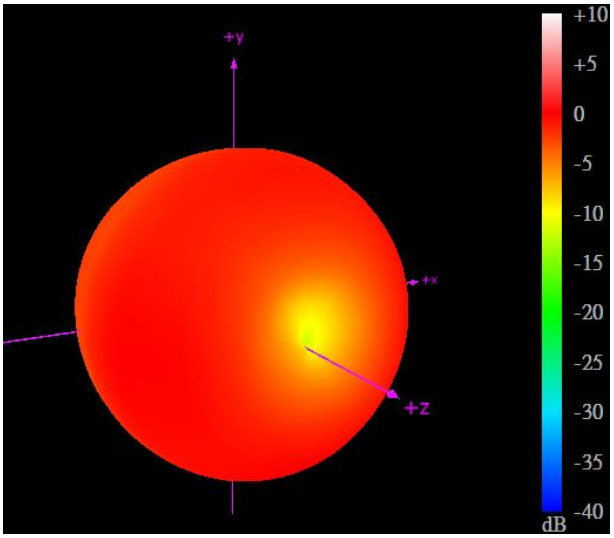


2690MHz

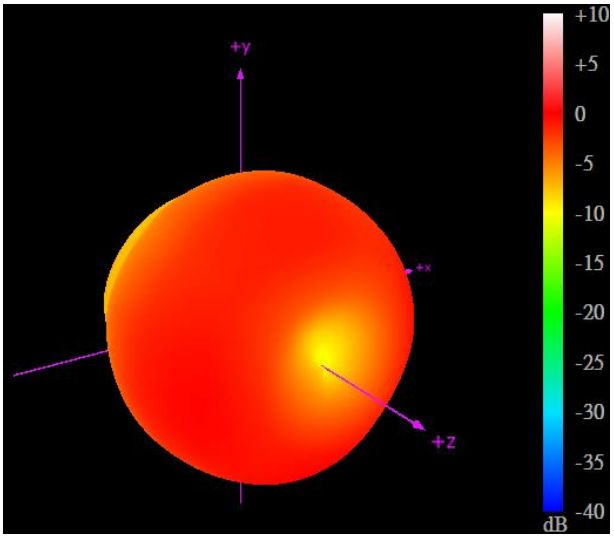


3D Radiation Pattern
(Bent Position with 30x30cm Metal Ground Center)

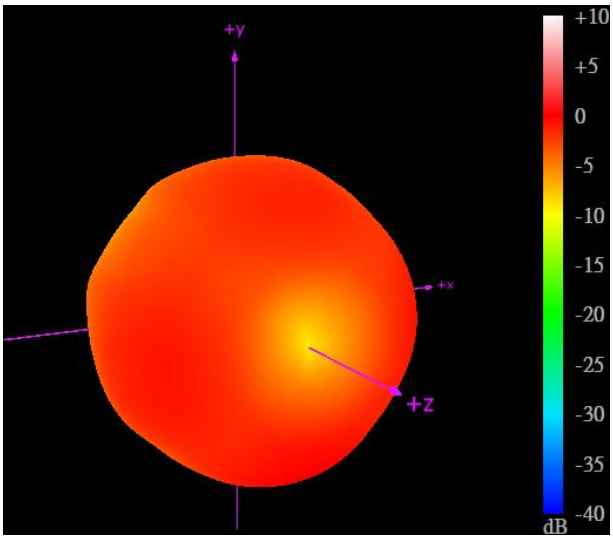
704MHz



824MHz



960MHz



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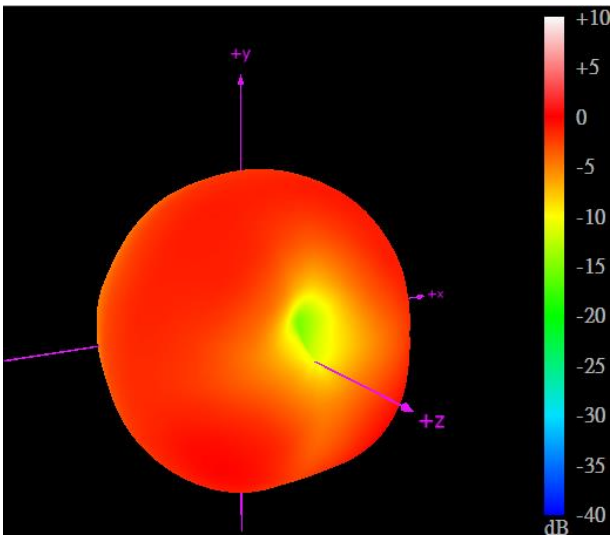
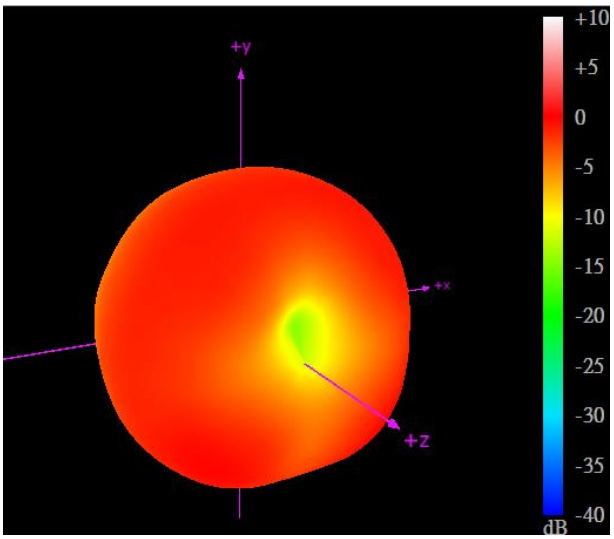
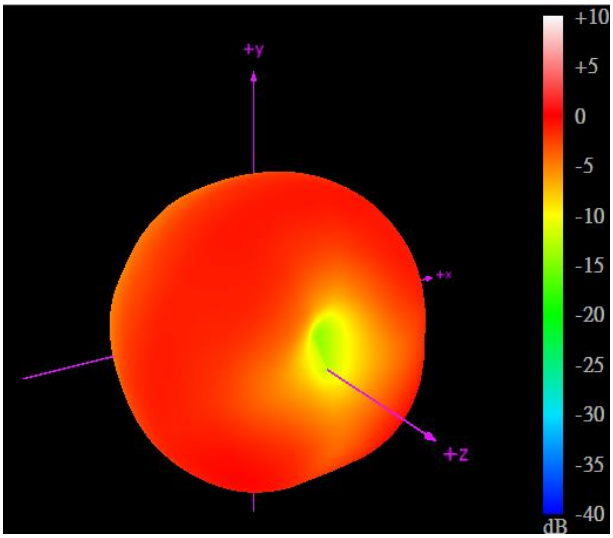


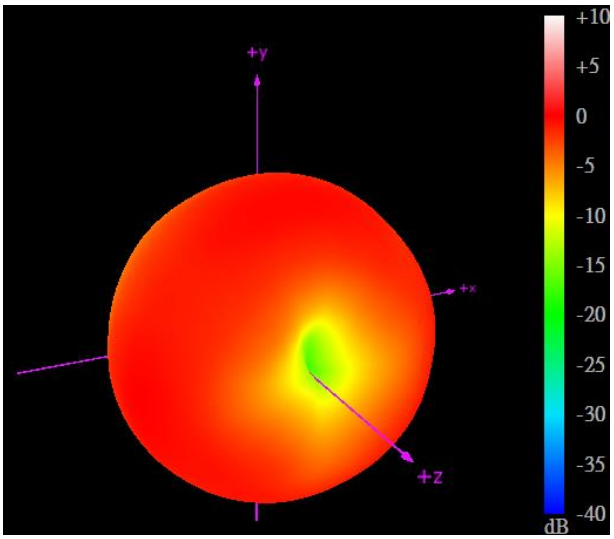
1575.42MHz



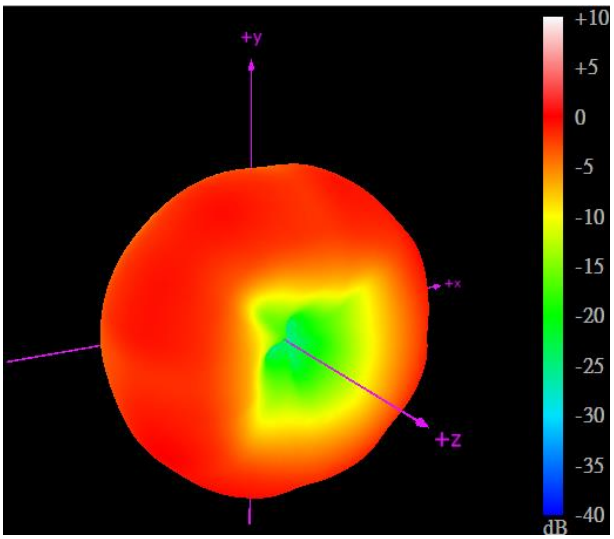
1602MHz



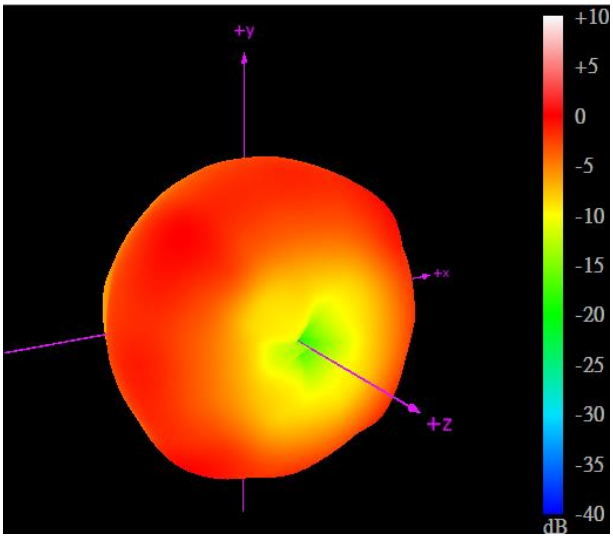
1710MHz



2170MHz

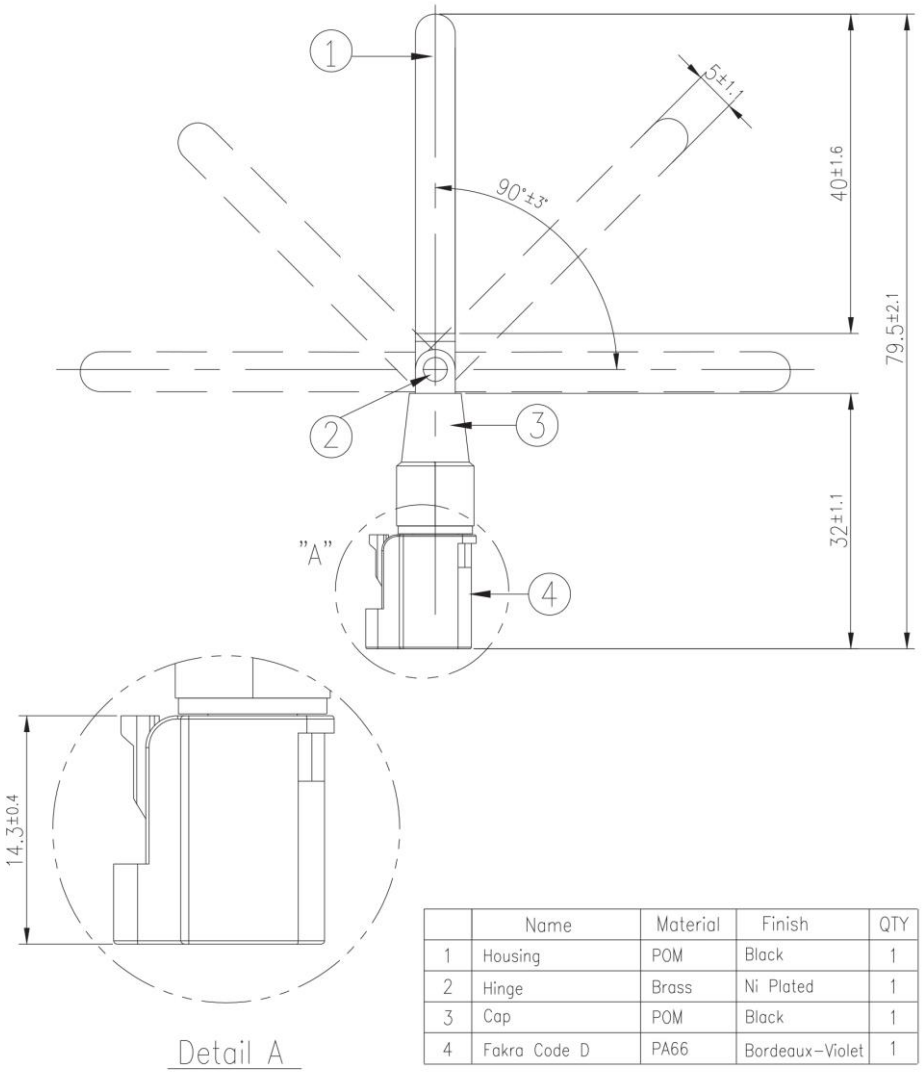


2690MHz



3. Mechanical Drawing

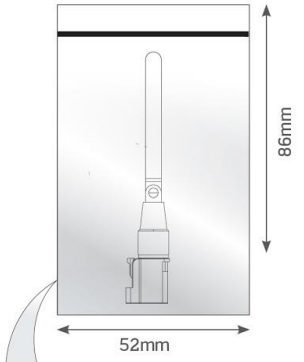
(Unit:mm)



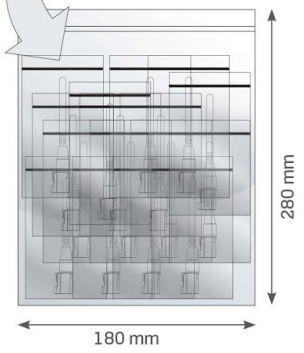
	Name	Material	Finish	QTY
1	Housing	POM	Black	1
2	Hinge	Brass	Ni Plated	1
3	Cap	POM	Black	1
4	Fakra Code D	PA66	Bordeaux-Violet	1

4. Packaging

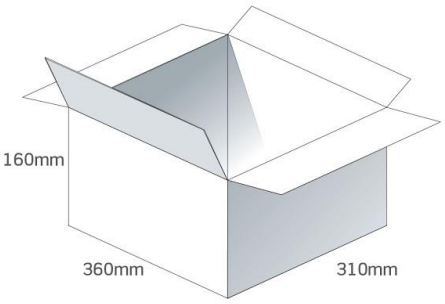
1 pcs TG.08.0723 per PE bag
PE Bag Dimensions - 52 x 86mm
Weight - 8.5g



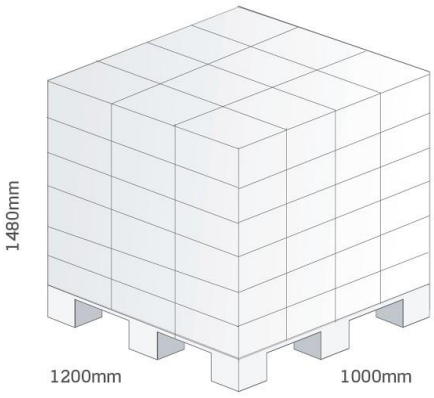
100 PE bags per large PE bags
100 pcs TG.08.0723 per large PE bags
Large PE bags Dimensions - 280 x 180mm
Weight - 0.9Kg



10 Large PE bags per carton
1000 pcs TG.08.0723 per carton
Carton Dimensions - 360 x 310 x 160mm
Weight - 9.5Kg



Pallet Dimensions 1200*1000*1480mm
72 Cartons per Pallet
9 Cartons per layer
8 Layers



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