

WHEN CONNECTIONS COUNT

GALTRONICS

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Sercomm AT&T WiFi7 Extender 4992 Antenna Performance Report

Galtronics Project: 8418

Prepared by Zack .You
Jul 1st, 2026

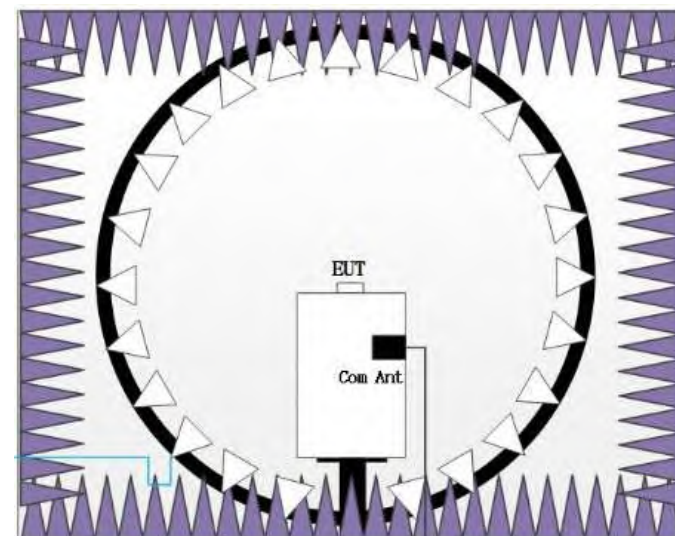
Introduction

This report provides Wi-Fi antenna passive measurement results which include:

- » General Information
- » Antenna Measurement System Information
- » Test Procedure
- » Far Field Test Method Judgment
- » DUT Information - Antenna System information
- » Test Configuration
- » Test Calibration
- » Set-up Photo

General Information

- Chamber Vendor : HWA-TECH
- Test Date : 20260629
- Test Location : No.28, Jinxing Road, Metallurgical Industrial Park
(Jinfeng Town),Zhangjiagang City, Jiangsu, China
- Test Engineer : Zack
- Measurement System : HWA-TECH SP24
- Software Name : Quick OTA
- Software Version : 2.0.3.829



Antenna Measurement System Information

- Measurement System: HWA-TECH SP24 Chamber

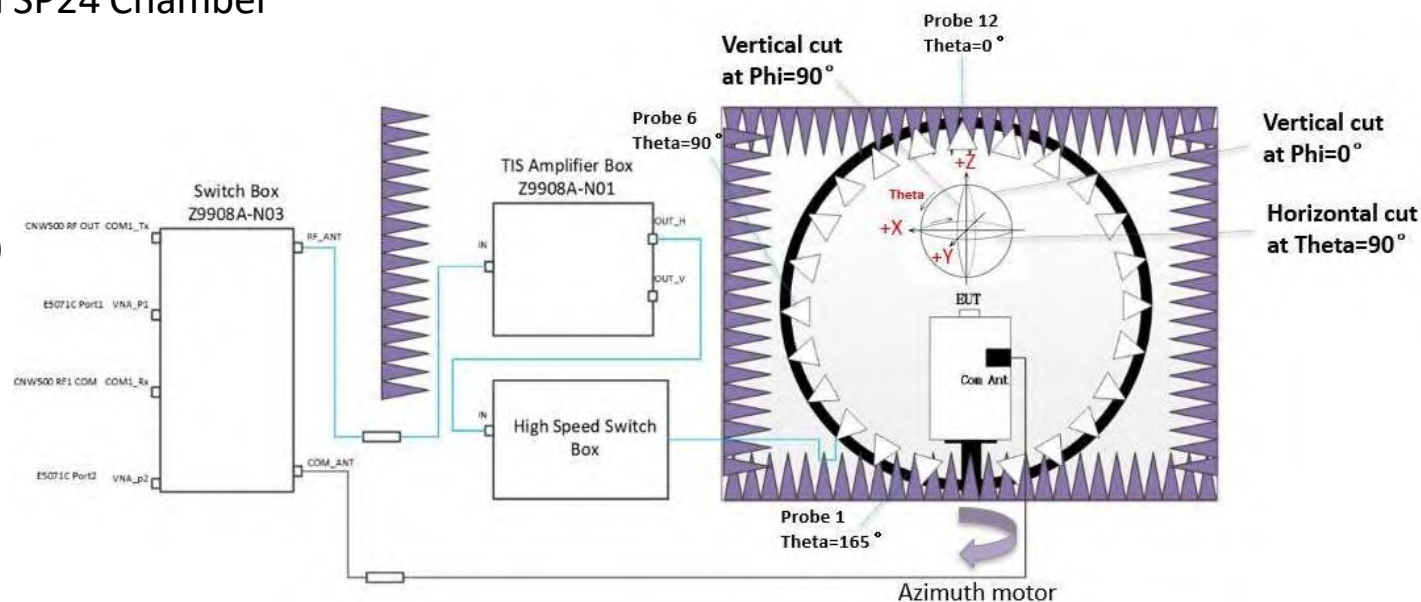
Measurement setup:

- Pattern & Gain measurement

1. HWA-TECH chamber (SP24)
2. HWA-TECH program (Quick OTA)
3. System overview

- Test item

1. Antenna passive test
400MHz~7.5GHz



- Calibration Information

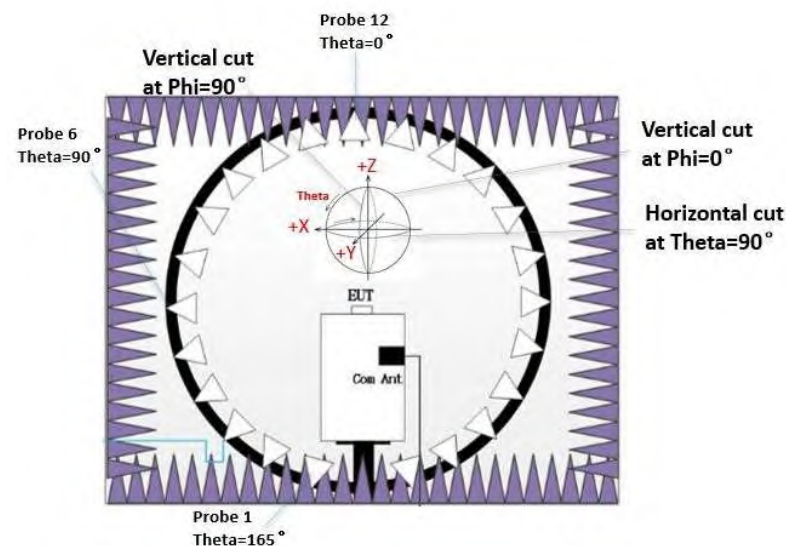
Description	Model No.	Serial #	Calibration Date	Calibration Until
Chamber	HWA-TECH SP24	NA	2026/06/15	2027/06/14
Network Analyzer	Keysight E5071C	MY46730234	2026/06/15	2027/06/14

Antenna Measurement System Information

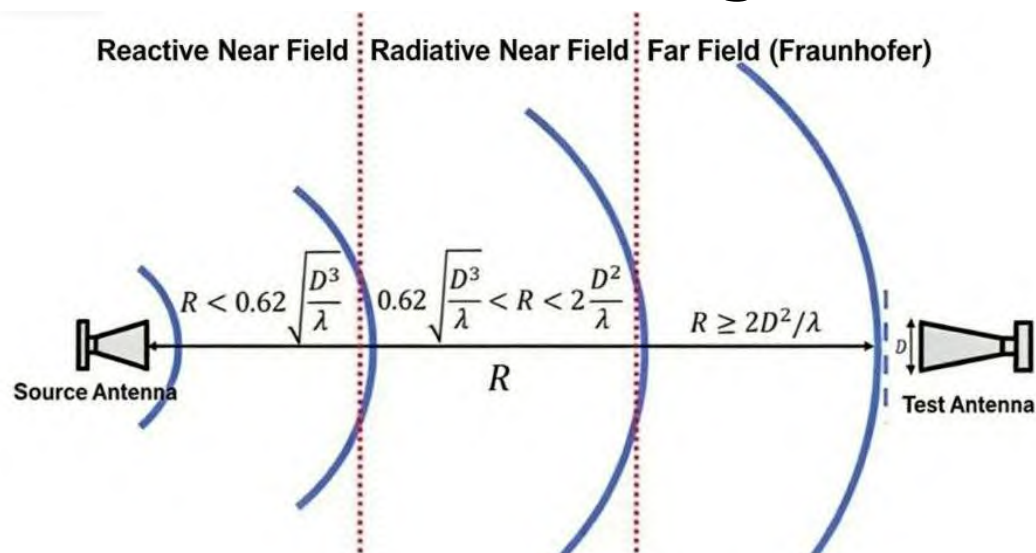
Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date
ENA Network Analyzer	KEYSIGHT	E5071C	MY46730234	1 Year	2026/06/15
RF Switch Box	HWA-TECH	Z9916A-NO1	N/A	N/A	N/A
SP24 Chamber	HWA-TECH	555	N/A	1 Year	2026/06/15
Horn Antenna	HWA-TECH	TN3112	N/A	1 Year	2026/06/15

Test Procedure

1. Place the device to be tested on the fixture and align it with the center of the chamber.
2. Connect the antenna cable to the RF connector of the chamber.
3. Use the SW to configure parameters (antenna name, frequency points, measurement angles, antenna dimension), and then run the test SW (Quick OTA).
4. By phi from 0° to 360° and theta from 0° to 180° with a step size of 1 degrees, get the 3D data, including efficiency, peak gain, 2D and 3D radiation patterns.
5. This is far field test for antenna verification.
6. This is passive measurement, which means the device is off and not in any operating mode.

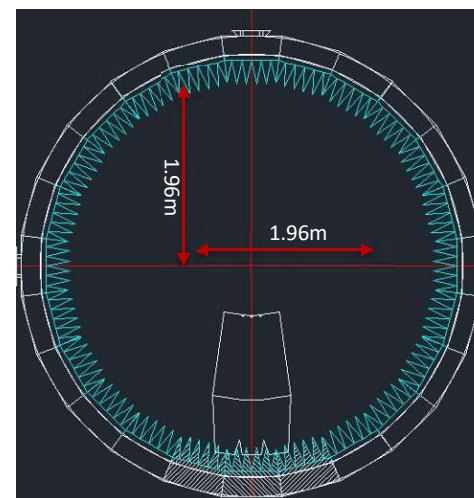
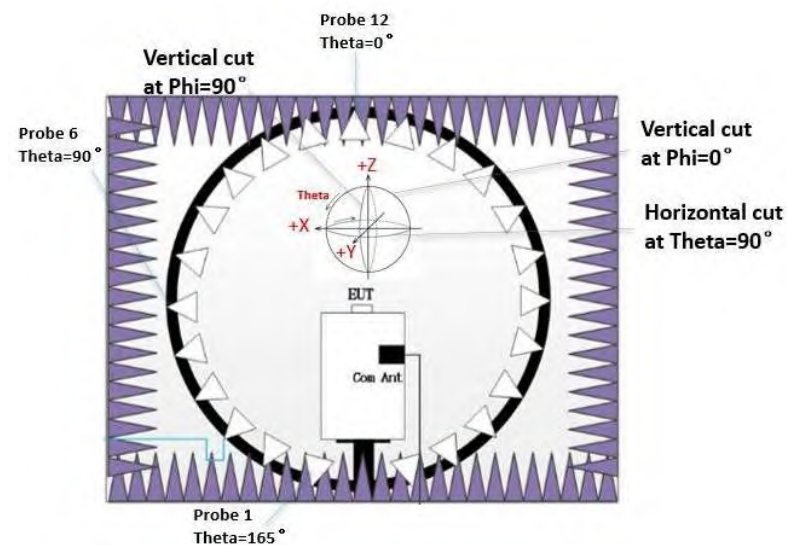


Far Field Test Method Judgment



R: Far-field starting distance
 λ : operating wavelength ($\lambda=c/f$)
 D: Antenna Size

Frequency (MHz)	Near Field	Far Field	EUT to Measurement antenna distance
2500MHz	$R < 0.014\text{m}$	$R \geq 0.014\text{m}$	$R = 1.96\text{m}$
5850MHz	$R < 0.032\text{m}$	$R \geq 0.032\text{m}$	$R = 1.96\text{m}$
7125MHz	$R < 0.021\text{m}$	$R \geq 0.021\text{m}$	$R = 1.96\text{m}$



DUT Information - Antenna System information

Antenna No.	RF Chain No.	Brand	Model	Support Function	Antenna Type	Connector Type
DB0	C0	Galtronics	02102140-08418-1A	2.4G + 5G	Dipole	I-PEX
DB1	C1	Galtronics	02102140-08418-2A	2.4G + 5G	Dipole	I-PEX
5G2	C2	Galtronics	02102142-08418-1A	5G	Dipole	I-PEX
5G3	C3	Galtronics	02102142-08418-2A	5G	Dipole	I-PEX
6G0	C0	Galtronics	02102475-08418-1A	6G	Dipole	I-PEX
6G1	C1	Galtronics	02102475-08418-2A	6G	Dipole	I-PEX
6G2	C2	Galtronics	02102475-08418-3A	6G	Dipole	I-PEX
6G3	C3	Galtronics	02102475-08418-4A	6G	Dipole	I-PEX

Galtronics Factory:Galtronics Electronics (Wuxi) Co. No. 1, Xishi Road, Wuxi New District Jiangsu Province 214028, China

Test Calibration

Instrument	Brand	Characteristics	Model No.	Serial No.	Calibration Date	Calibration Due Date
Horn Antenna	HWA-TECH	600-840MHz 970-1670MHz 1960-2100MHz	NA	NA	2026/06/15	2027/06/14
Precision Sleeve Dipole	Satimo	840-970MHz	SD900	S0066	2026/06/15	2027/06/14
Precision Sleeve Dipole	Satimo	2100-3300MHz	SD800	S0053	2026/06/15	2027/06/14
Precision Sleeve Dipole	HWA-TECH	3300-7150MHz	NA	NA	2026/06/15	2027/06/14

Introduction

- » Galtronics developed an antenna solution for Sercomm AT&T WiFi7 Extender 4992.
- » There are 8 antennas :
 - Two Cabled PCB WIFI Dual Band antennas :- DB1 and DB2.
 - Two Cabled PCB WIFI 5GHz antennas :- 5G1 and 5G2.
 - Four Cabled PCB WIFI 6GHz antennas :- 6G1,6G2,6G3 and 6G4.
- » The operating frequency of DB is 2.4 GHz-2.5GHz and 5.17GHz-5.835GHz.
- » The operating frequency of 5GHz is 5.17GHz-5.835GHz.
- » The operating frequency of 6GHz is 5.925GHz-7.125GHz.
- » Measured return loss, isolation, peak gain, efficiency, Correlated gain, UnCorrelated gain and gain patterns of the antennas.

Cable Lengths and Orientation

Antenna	Total Cable Length	Orientation	Cable Color	Cable Type
DB0	145mm	30°	white	1.37 Normal
DB1	100mm	30°	black	1.37 Normal
5G2	130mm	H	brown	1.37 Normal
5G3	60mm	45°	gray	1.37 Normal
6G0	70mm	45°	red	1.37 Normal
6G1	90mm	H	green	1.37 Normal
6G2	75mm	V	blue	1.37 Normal
6G3	115mm	45°	yellow	1.37 Normal

V = vertical
H = horizontal

Performance Summary

Antenna	Worst Case Return Loss (dB) 2.45 GHz Band	Worst Case Return Loss (dB) 5 GHz Band	Worst Case Return Loss (dB) 6 GHz Band	Average Efficiency 2.45 GHz Band (%)	Average Efficiency 5 GHz Band (%)	Average Efficiency 6 GHz Band (%)	Highest Peak Gain 2.45 GHz Band (dBi)	Highest Peak Gain 5 GHz Band (dBi)	Highest Peak Gain 6 GHz Band (dBi)	Mutual Isolation (dB) 2.45 GHz Band		Mutual Isolation (dB) 5 GHz Band				Mutual Isolation (dB) 6 GHz High Band			
										DB0	DB1	DB0	DB1	5G2	5G3	6G0	6G1	6G2	6G3
DB0	-10.3	-13.5		72.11	71.39		3.32	3.85								-30.0	-31.1	-37.4	-35.3
DB1	-16.0	-13.0		71.44	72.97		4.24	5.31		-22.0		-32.8				-30.6	-36.1	-36.1	-33.3
5G2		-13.8			70.67			5.04		-24.1	-30.6	-29.8	-37.1			-28.0	-40.4	-28.5	-33.7
5G3		-16.4			71.07			5.01		-56.2	-26.0	-34.2	-25.1	-39.2		-30.8	-32.5	-30.0	-31.6
6G0			-12.4			71.35			5.24	-27.2	-33.8	-32.7	-32.8	-28.9	-32.0				
6G1			-12.8			70.72			5.25	-32.3	-29.3	-30.0	-33.4	-34.8	-32.1	-32.1			
6G2			-14.5			72.59			5.47	-30.1	-30.3	-32.8	-34.3	-30.6	-31.5	-26.8	-40.4		
6G3			-14.2			72.65			5.35	-40.9	-30.8	-34.1	-31.3	-34.3	-30.1	-33.4	-38.2	-19.2	

Antennas Peak Gain and Efficiency

Antenna Group	Worst-Case Mutual Isolation in Group (dB) 2.45 GHz Band		Worst-Case Mutual Isolation in Group (dB) 5 GHz Band		Worst-Case Mutual Isolation in Group (dB) 5 GHz Band		Worst-Case Mutual Isolation in Group (dB) 6 GHz Band	
	DB0 & DB1		DB0 & DB1		5G2 & 5G3		6G0, 6G1, 6G2 & 6G3	
DB0 & DB1	-22.0	DB0&DB1	-32.8	DB0&DB1			-30.0	6G0&DB0
5G2 & 5G3	-24.1	5G2&DB0	-25.1	5G3&DB1	-39.2	5G2&5G3	-28.0	5G2&6G0
6G0, 6G1, 6G2 & 6G3	-27.2	6G0&DB0	-30.0	6G1&DB0	-28.9	6G0&5G2	-19.2	6G2&6G3

Operating Frequency Band	Worst Case Horizontal and Vertical Directional Gain (dBi)	
	Correlated	Uncorrelated
2.45 GHz	4.37	1.41
5 GHz	5.39	0
6 GHz	6.78	1.39

Antennas Peak Gain and Efficiency

DB0	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	2400	3.32	4.79	71.34%
	2450	3.21	4.75	70.18%
	2500	3.19	4.45	74.80%
	Average			72.11%

DB1	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	2400	4.01	5.43	72.11%
	2450	4.21	5.71	70.84%
	2500	4.24	5.70	71.38%
	Average			71.44%

DB0	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5170	3.83	5.48	68.41%
	5350	3.75	5.20	71.62%
	5550	3.51	4.92	72.33%
	5750	3.85	5.34	70.94%
	5835	3.14	4.47	73.64%
	Average			71.39%

DB1	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5170	5.31	6.50	75.95%
	5350	4.78	6.23	71.61%
	5550	4.55	5.93	72.81%
	5750	4.68	6.18	70.80%
	5835	4.81	6.14	73.69%
	Average			72.97%

5G2	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5170	4.65	6.31	68.25%
	5350	4.88	6.42	70.12%
	5550	4.97	6.29	73.86%
	5750	4.96	6.56	69.12%
	5835	5.04	6.47	72.00%
	Average			70.67%

5G3	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5170	5.00	6.39	72.62%
	5350	4.94	6.44	70.85%
	5550	4.95	6.35	72.44%
	5750	5.01	6.62	69.08%
	5835	4.67	6.20	70.37%
	Average			71.07%

Antennas Peak Gain and Efficiency

6G0	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5925	4.73	6.39	68.30%
	6325	5.24	6.53	74.27%
	6525	4.43	6.03	69.17%
	6825	4.83	6.14	73.90%
	7125	4.75	6.23	71.12%
Average				71.35%

6G1	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5925	5.13	6.69	69.82%
	6325	5.11	6.52	72.31%
	6525	5.25	6.74	70.90%
	6825	5.23	6.68	71.65%
	7125	4.98	6.60	68.93%
Average				70.72%

6G2	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5925	5.47	6.73	74.78%
	6325	4.69	6.22	70.27%
	6525	4.42	5.96	70.18%
	6825	5.30	6.63	73.54%
	7125	5.26	6.56	74.19%
Average				72.59%

6G3	Freq(MHz)	Peak Gain(dBi)	Directivity(dB)	Efficiency
	5925	5.35	6.61	74.78%
	6325	5.23	6.60	72.91%
	6525	5.11	6.61	70.74%
	6825	4.87	6.33	71.46%
	7125	5.03	6.38	73.34%
Average				72.65%

Correlated/UnCorrelated Gain Calculation formula

$$\text{Correlated Gain} = 10 \log \left[\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2 / N_{Ant.} \right] \text{ dBi}$$

$$\text{Uncorrelated Gain} = 10 \log \left[\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_n}{10}} \right) / N_{Ant.} \right] \text{ dBi}$$

$N_{Ant.}$: Number of antenna

G_n : Gain of antenna

DB 2.4 GHz Horizontal and Vertical Correlated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)		Correlated Gain (dBi) - H-Pol
	Theta	Phi	DB0	DB1	
2400	59	13	0.41	2.22	4.37
2450	59	9	0.23	2.19	4.28
2500	59	7	0.05	2.15	4.17

Frequency (MHz)	Degree		Gain (dBi)		Correlated Gain (dBi) - V-Pol
	Theta	Phi	DB0	DB1	
2400	74	8	-1.32	2.03	3.53
2450	74	9	-1.22	2.21	3.67
2500	74	9	-0.96	2.10	3.71

DB 2.4 GHz Horizontal and Vertical Uncorrelated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)		UnCorrelated Gain (dBi) - H-Pol
	Theta	Phi	DB0	DB1	
2400	59	13	0.41	2.22	1.41
2450	59	9	0.23	2.19	1.32
2500	59	7	0.05	2.15	1.23

Frequency (MHz)	Degree		Gain (dBi)		UnCorrelated Gain (dBi) - V-Pol
	Theta	Phi	DB0	DB1	
2400	75	14	-2.40	2.59	0.78
2450	75	13	-1.94	2.59	0.89
2500	74	13	-1.61	2.46	0.89

5 GHz Horizontal and Vertical Correlated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - H-Pol
	Theta	Phi	5G2	5G3	DB0	DB1	
5170	30	229	2.04	-5.42	-0.34	-2.29	4.94
5350	30	225	2.09	-6.03	0.66	-1.43	5.34
5550	30	221	1.94	-6.58	1.23	-1.42	5.39
5750	22	60	1.09	-3.87	-3.79	-0.51	4.52
5835	30	30	-8.90	-1.65	-0.55	2.27	4.67

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - V-Pol
	Theta	Phi	5G2	5G3	DB0	DB1	
5170	22	314	-0.17	-0.12	0.14	-4.40	5.07
5350	17	316	0.28	-0.92	-1.78	-1.30	5.12
5550	16	327	0.81	-0.49	-2.56	-1.53	5.17
5750	16	329	1.54	-1.01	-2.13	-1.72	5.31
5835	17	329	1.46	-1.30	-3.91	-1.94	4.81

5 GHz Horizontal and Vertical Uncorrelated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - H-Pol
	Theta	Phi	5G2	5G3	DB0	DB1	
5170	30	28	-10.85	-4.01	0.51	2.94	-0.49
5350	30	225	2.09	-6.03	0.66	-1.43	-0.28
5550	30	74	3.25	-0.82	-7.70	-1.14	-0.13
5750	164	272	4.65	-8.12	-16.25	-4.65	-0.66
5835	30	14	-15.29	-1.46	0.30	2.32	-0.55

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - V-Pol
	Theta	Phi	5G2	5G3	DB0	DB1	
5170	30	92	-5.26	-6.76	-2.00	4.21	-0.25
5350	33	92	-7.17	-4.81	-3.93	4.25	-0.47
5550	31	91	-9.77	-5.02	-4.02	4.09	-0.73
5750	16	331	1.67	-0.91	-2.36	-1.88	-0.57
5835	75	90	-12.38	1.47	-7.93	3.76	0.00

6 GHz Horizontal and Vertical Correlated directional Gain

Worst Case

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - H-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	43	103	-4.81	4.01	-1.13	2.44	6.78
6325	44	103	-3.67	3.99	-1.57	1.44	6.55
6525	45	76	-2.15	4.73	-9.50	1.39	6.05
6825	164	75	2.05	0.53	-4.93	-1.27	5.48
7125	164	75	1.70	1.99	-6.79	0.28	5.94

Frequency (MHz)	Degree		Gain (dBi)				Correlated Gain (dBi) - V-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	59	135	-8.04	-1.89	3.21	2.68	6.04
6325	59	135	-8.93	-0.67	3.45	2.68	6.30
6525	59	135	-7.91	-0.32	3.59	2.46	6.46
6825	67	285	1.22	-13.58	4.54	0.19	6.17
7125	75	285	1.70	-23.38	3.37	0.75	5.68

6 GHz Horizontal and Vertical Uncorrelated directional Gain

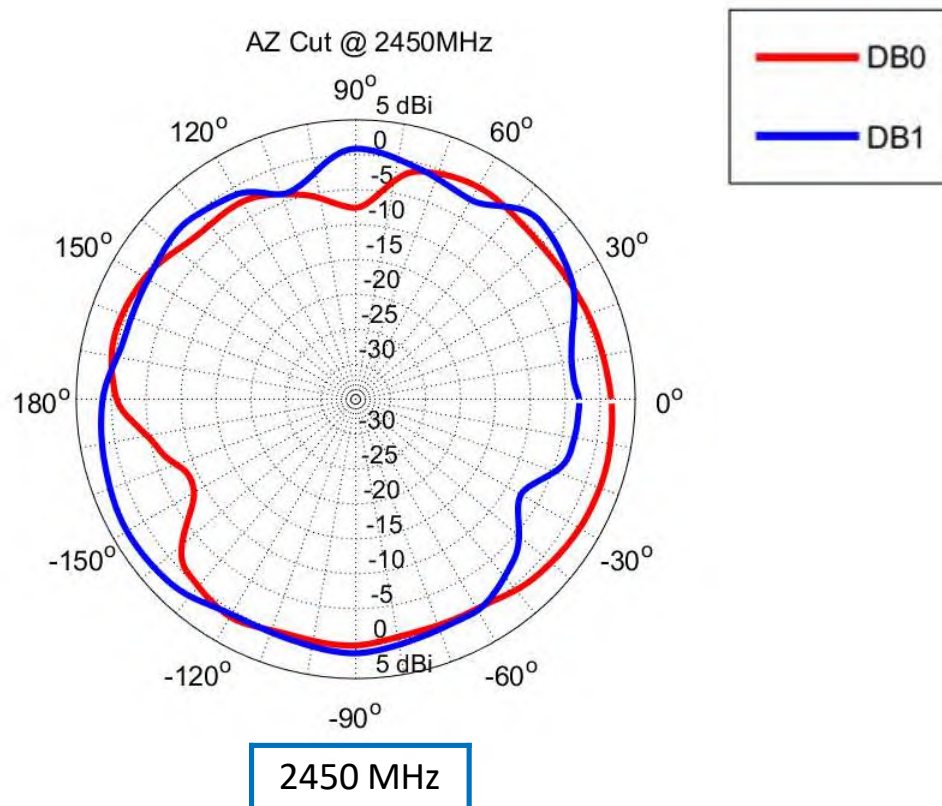
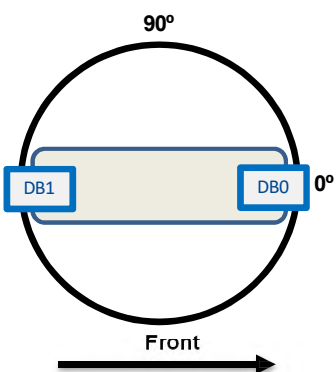
Worst Case

Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - H-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	45	91	-4.02	5.03	-4.87	2.04	1.39
6325	45	89	-1.28	4.99	-8.68	1.42	1.32
6525	44	85	-2.39	5.08	-11.59	1.03	1.08
6825	75	104	1.76	2.22	-3.71	-5.04	-0.10
7125	74	91	1.09	4.14	-13.01	-1.12	0.70

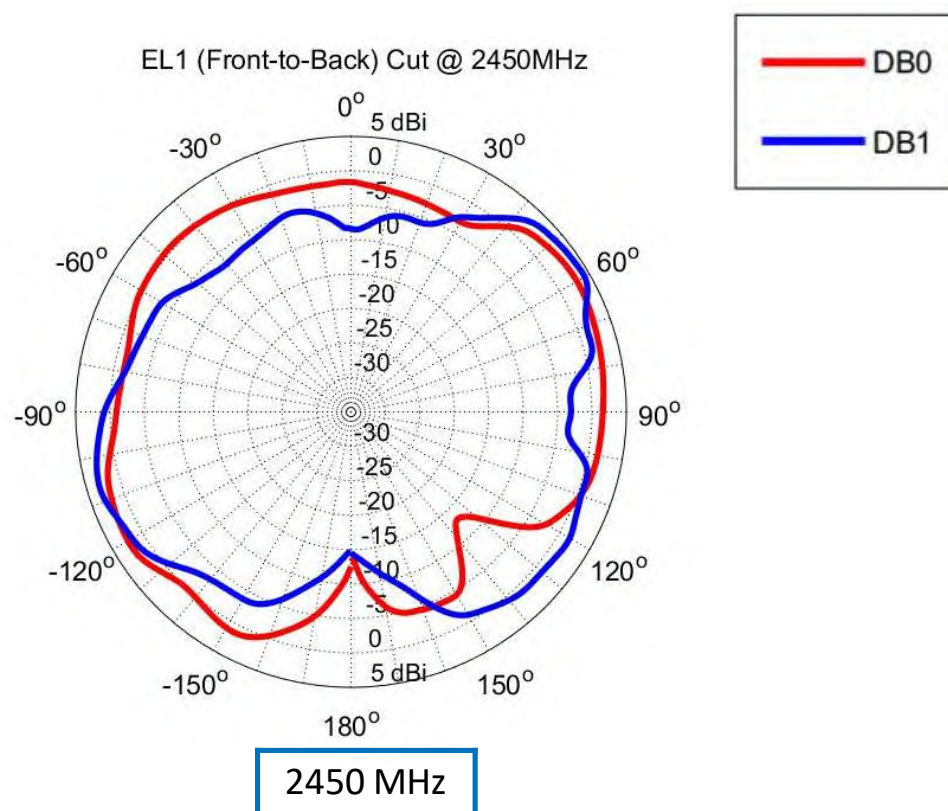
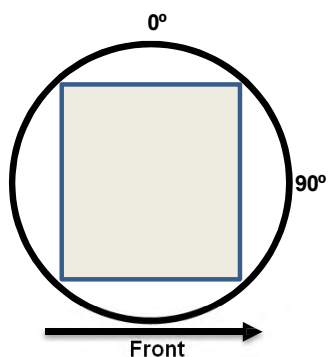
Frequency (MHz)	Degree		Gain (dBi)				UnCorrelated Gain (dBi) - V-Pol
	Theta	Phi	6G0	6G1	6G2	6G3	
5925	59	135	-8.04	-1.89	3.21	2.68	0.75
6325	59	135	-8.93	-0.67	3.45	2.68	1.01
6525	59	135	-7.91	-0.32	3.59	2.46	1.09
6825	75	285	0.95	-14.75	4.63	0.49	1.22
7125	75	285	1.70	-23.38	3.37	0.75	0.83

Azimuth Cut- Power Sum

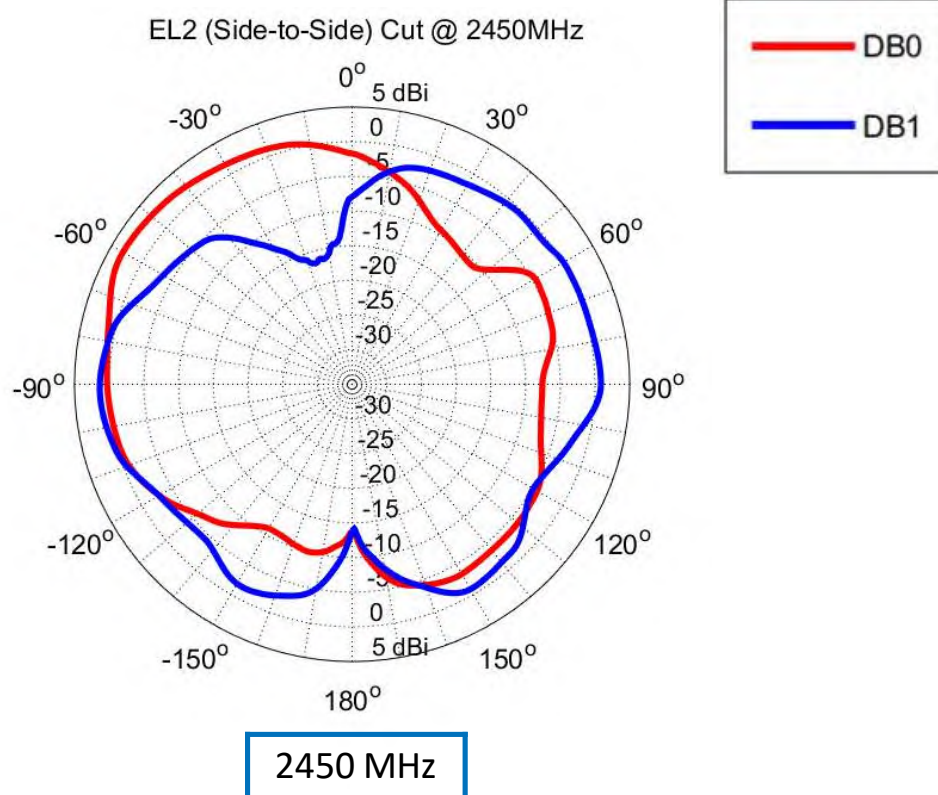
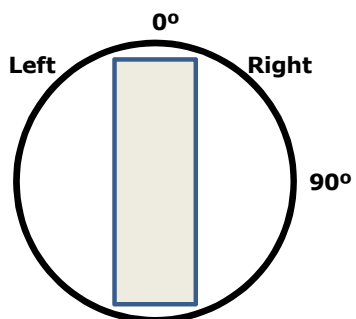
System Coverage – DB Antennas 2.45 GHz



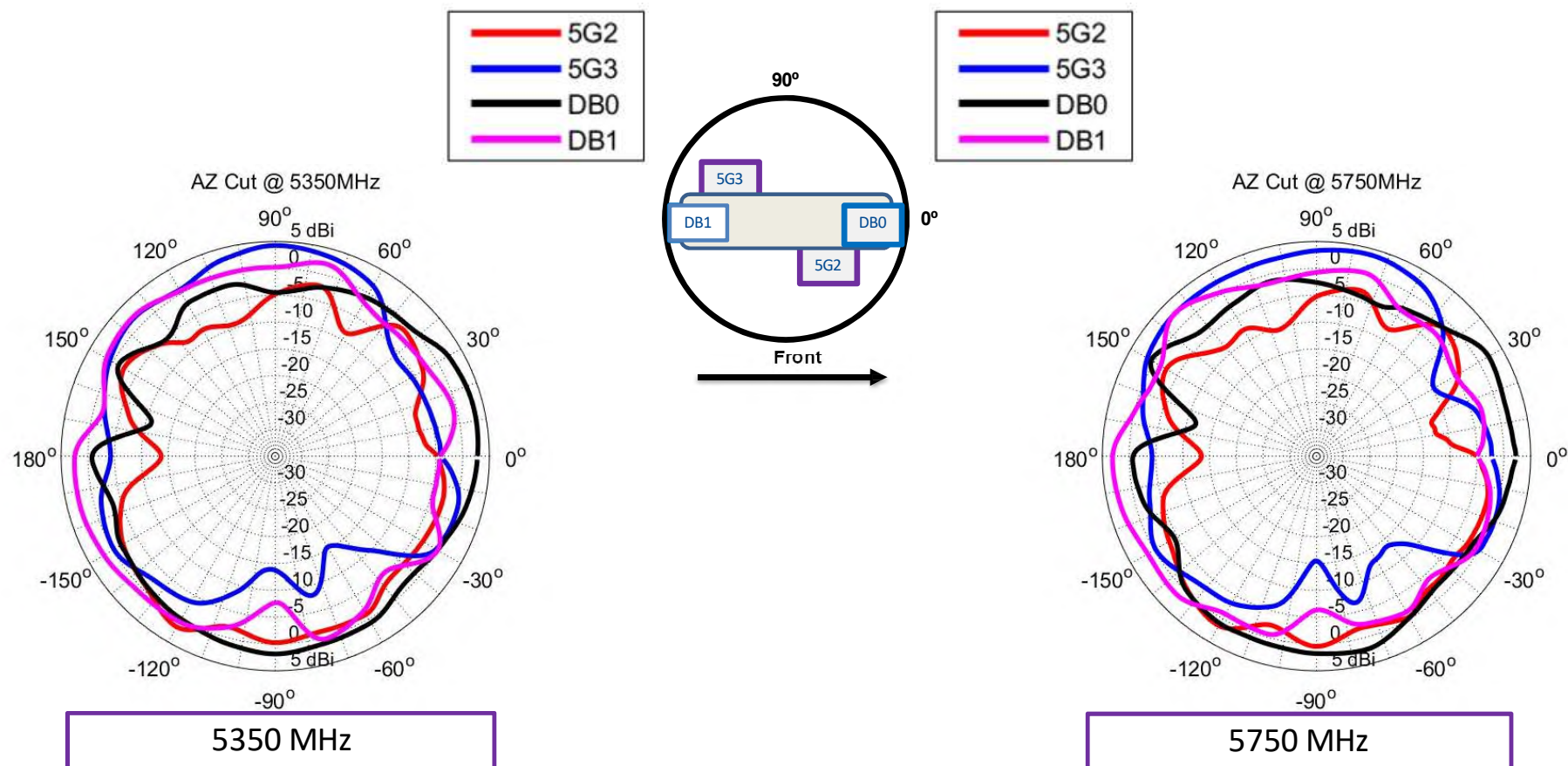
Elevation (Front to Back) Cut - Power Sum System Coverage – DB Antennas 2.45 GHz



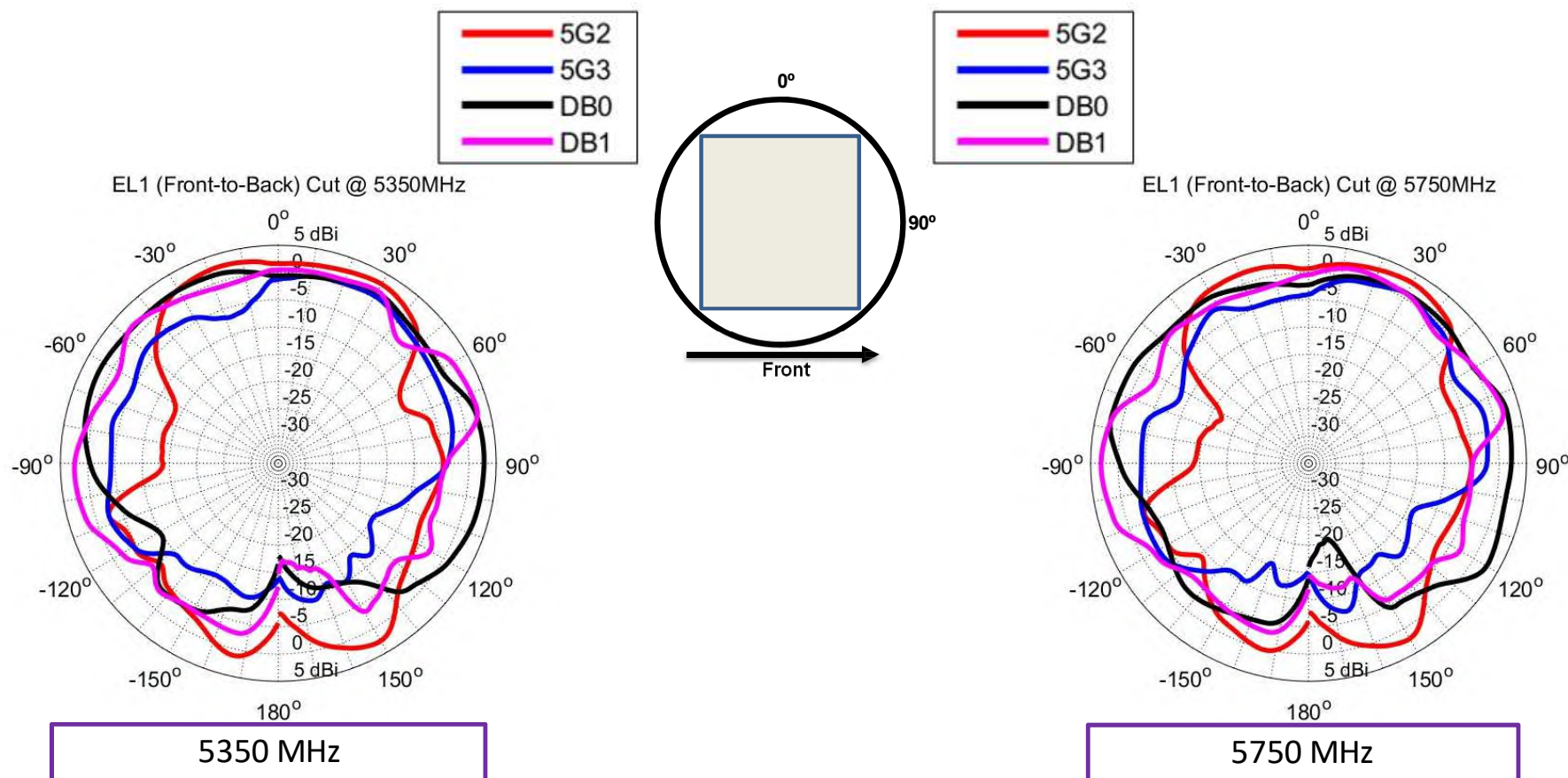
Elevation (Side to Side) Cut - Power Sum System Coverage – DB Antennas 2.45 GHz



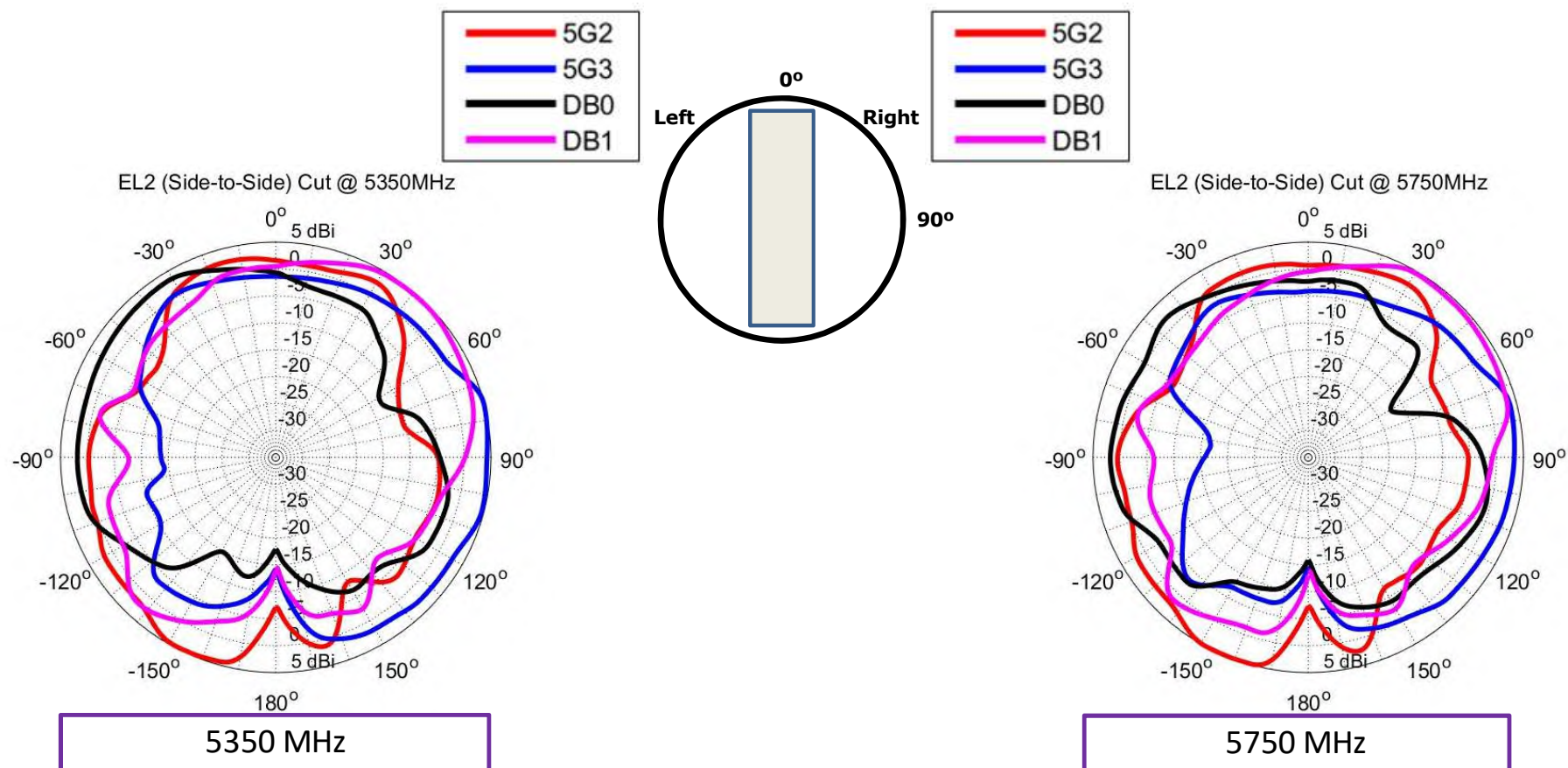
Azimuth Cut- Power Sum System Coverage – 5 GHz Antennas

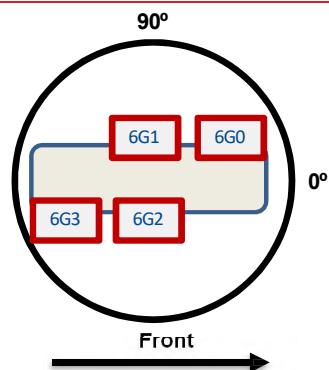


Elevation (Front to Back) Cut - Power Sum System Coverage – 5 GHz Antennas

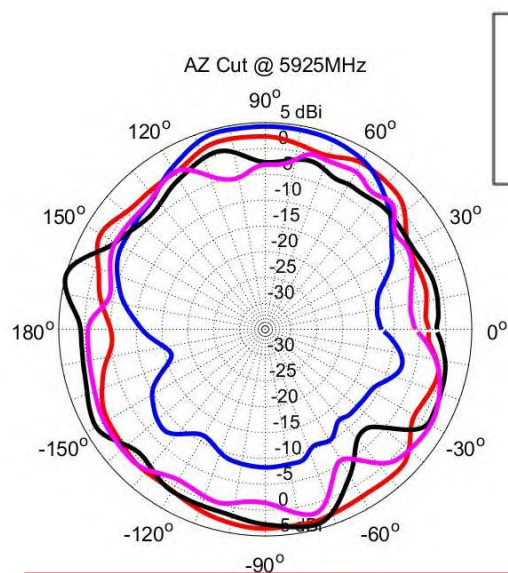


Elevation (Side to Side) Cut - Power Sum System Coverage – 5 GHz Antennas

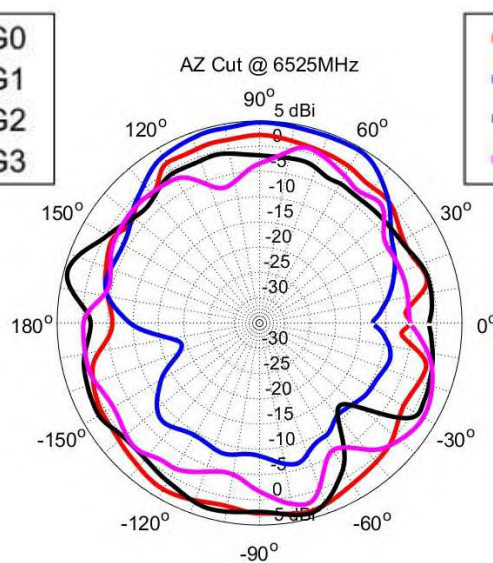
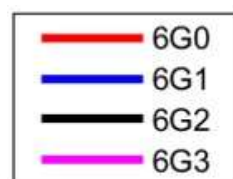




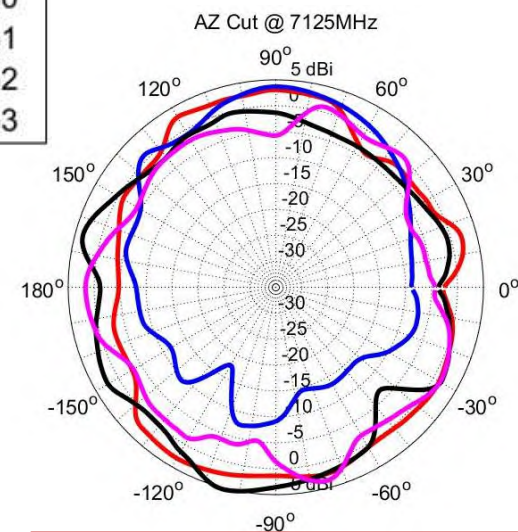
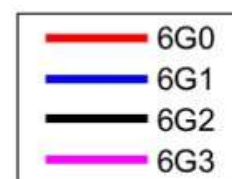
Azimuth Cut- Power Sum System Coverage – 6 GHz Antennas



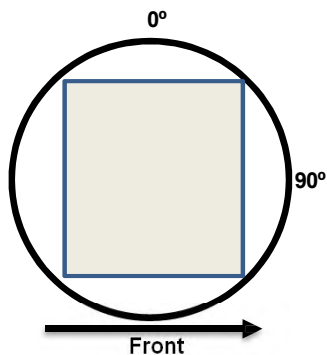
5925 MHz



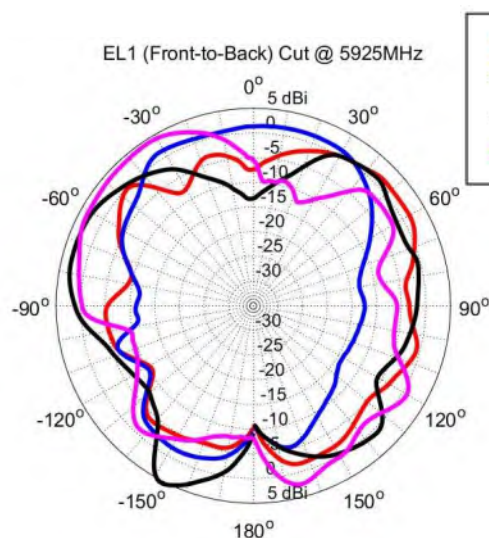
6525 MHz



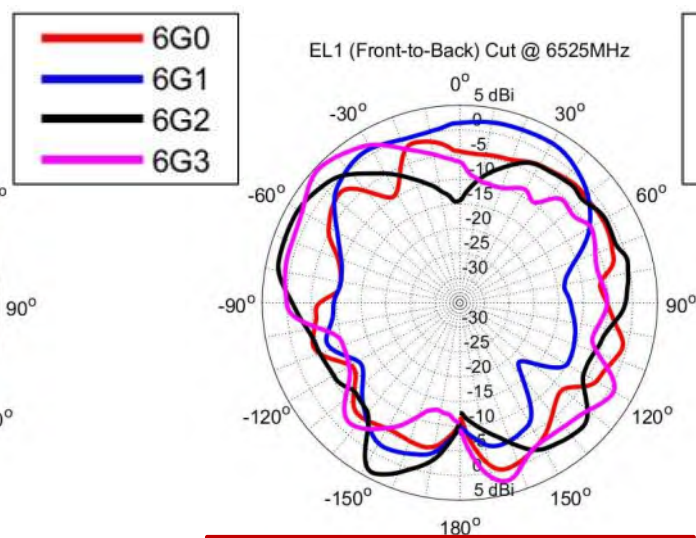
7125 MHz



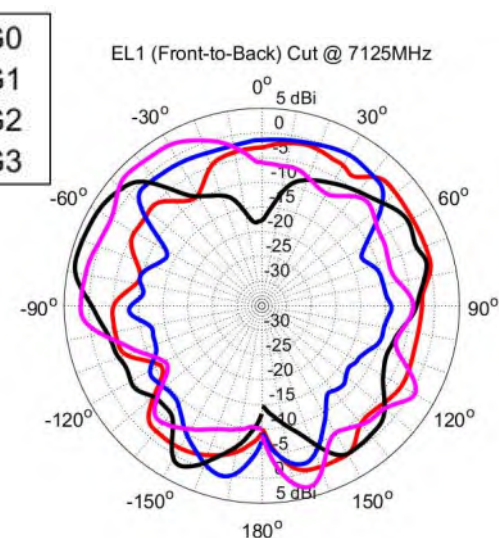
Elevation (Front to Back) Cut - Power Sum System Coverage – 6 GHz Antennas



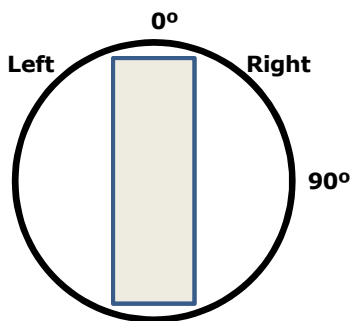
5925 MHz



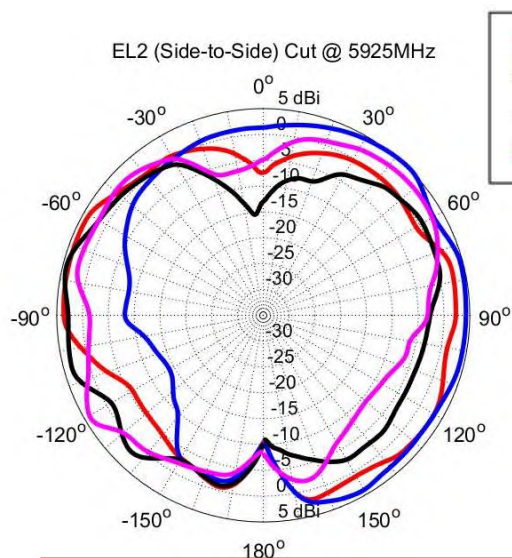
6525 MHz



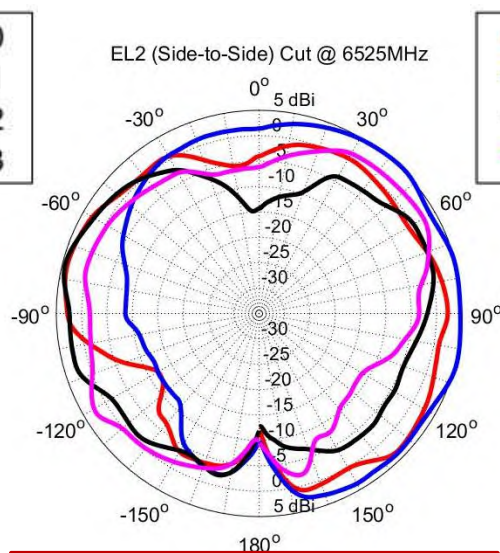
7125 MHz



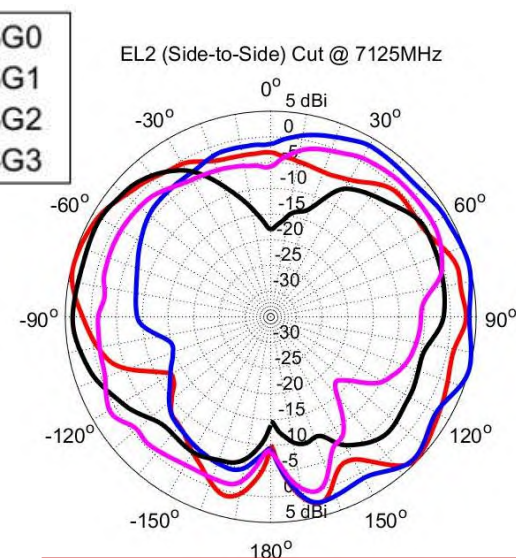
Elevation (Side to Side) Cut - Power Sum System Coverage – 6 GHz Antennas



5925 MHz



6525 MHz

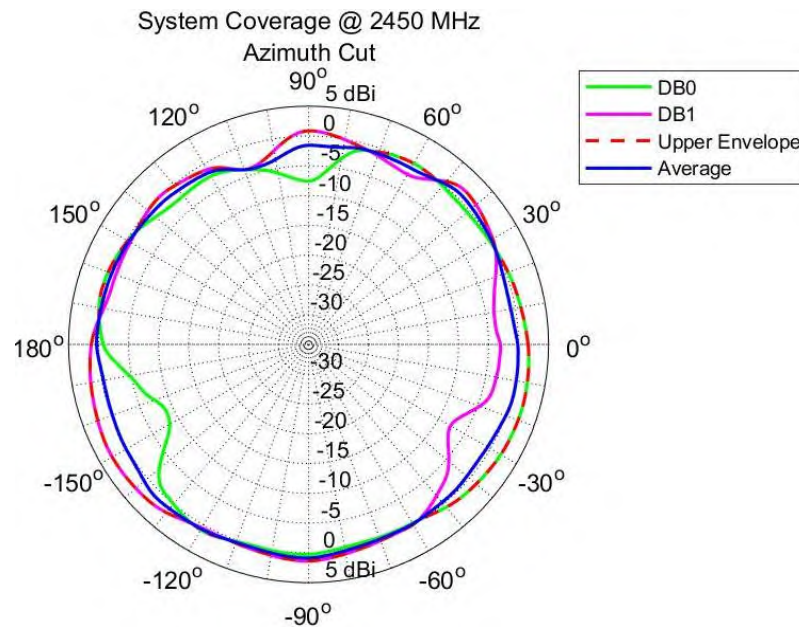
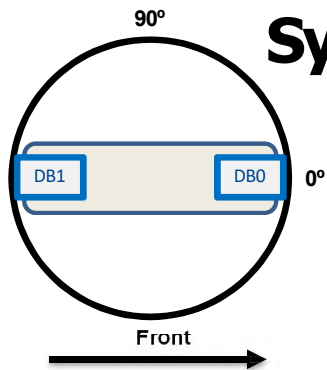


7125 MHz

Azimuth Cut- Power Sum

System Coverage Average and Envelope – DB Antennas

2.45 GHz

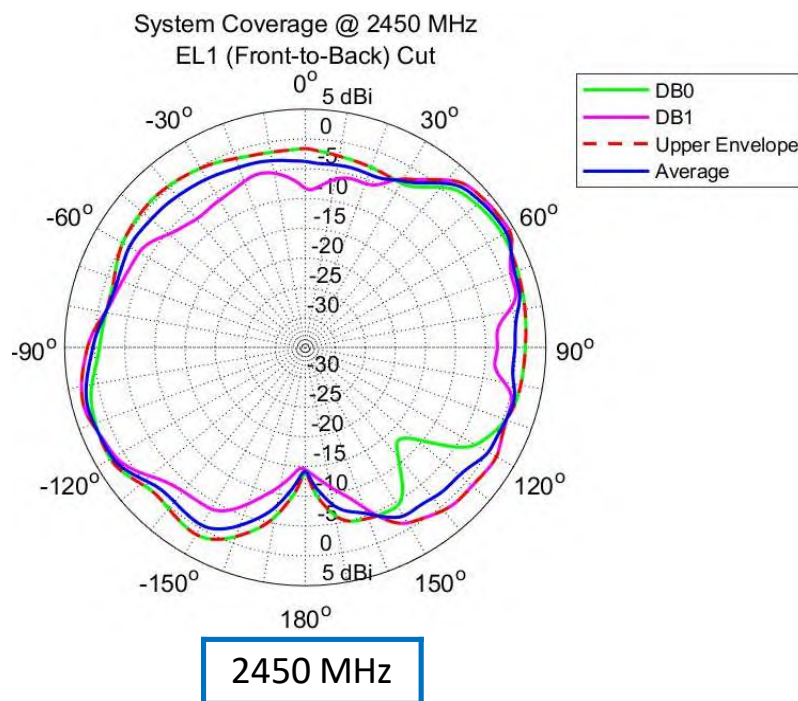
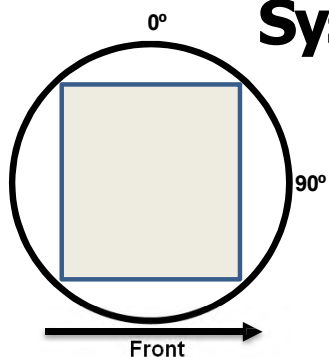


2450 MHz

Elevation (Front to Back) Cut - Power Sum

System Coverage Average and Envelope – DB Antennas

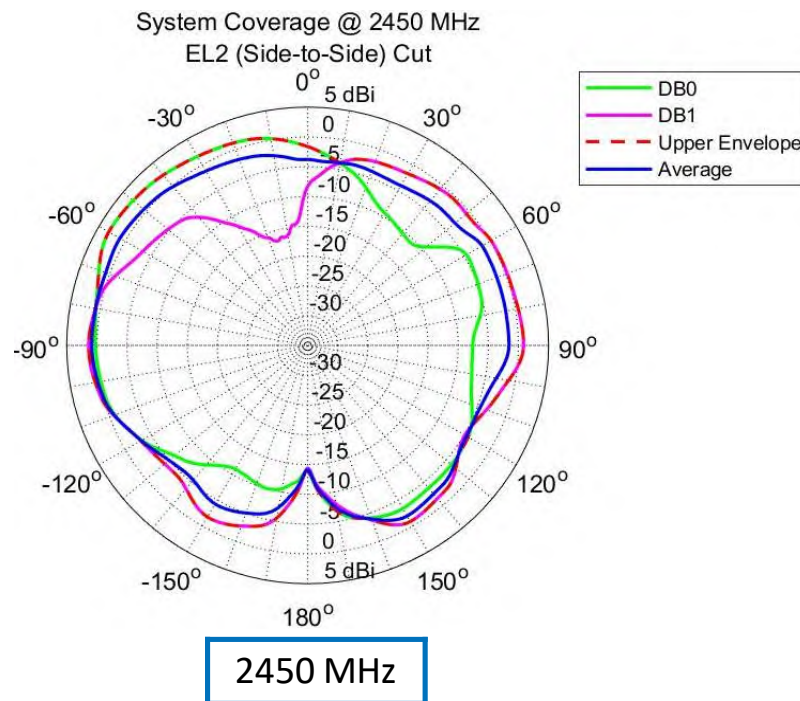
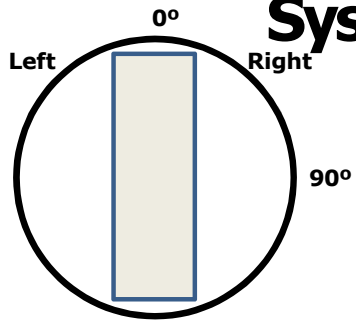
2.45 GHz



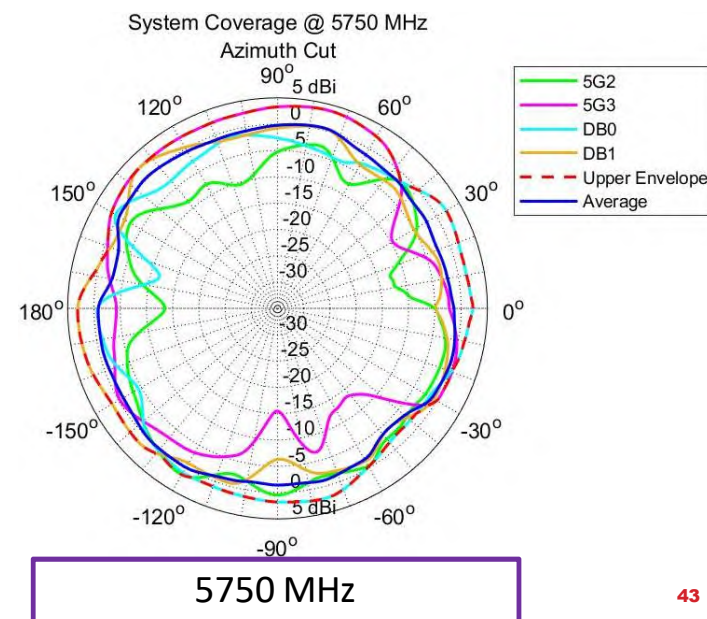
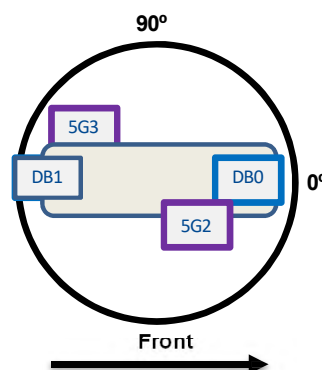
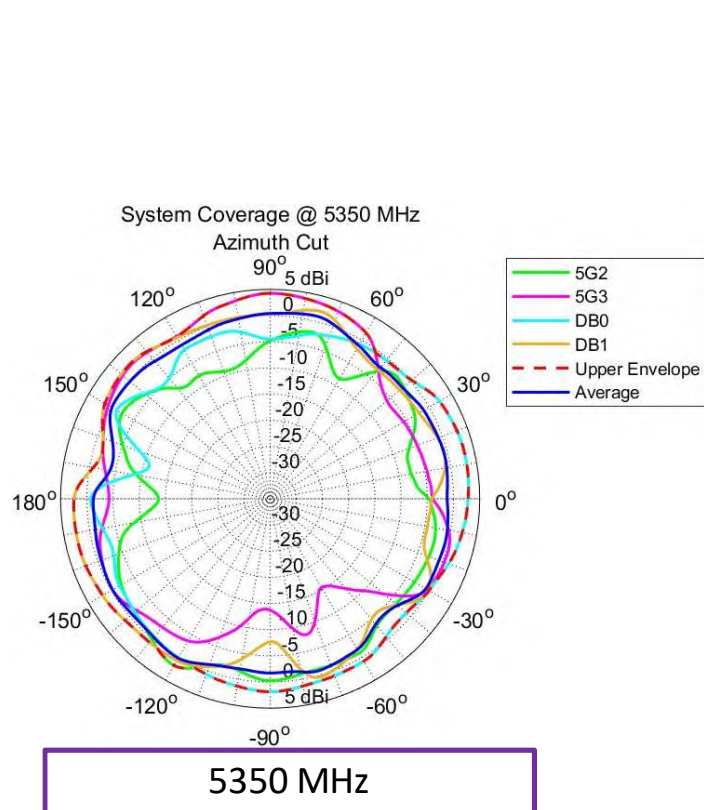
Elevation (Side to Side) Cut - Power Sum

System Coverage Average and Envelope – DB Antennas

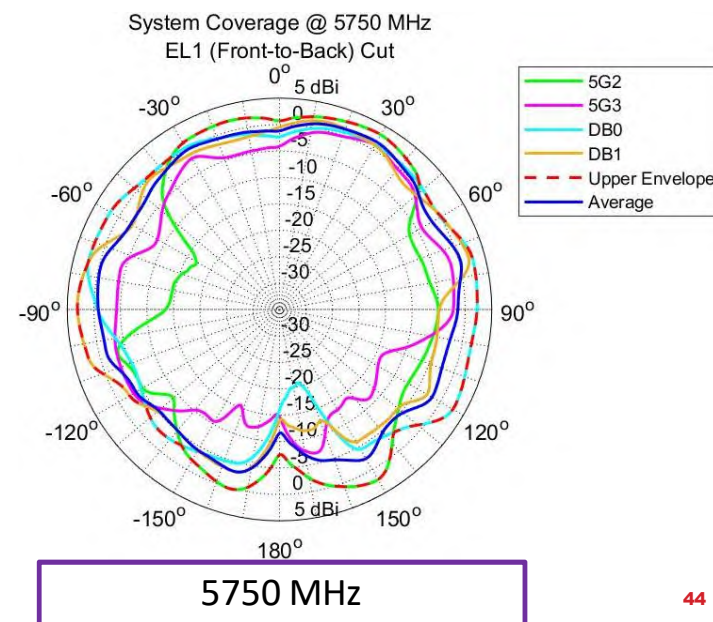
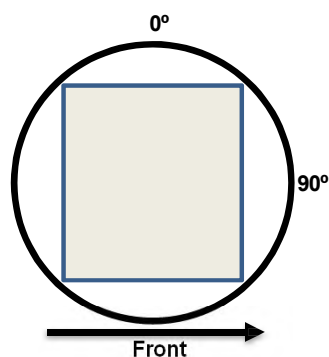
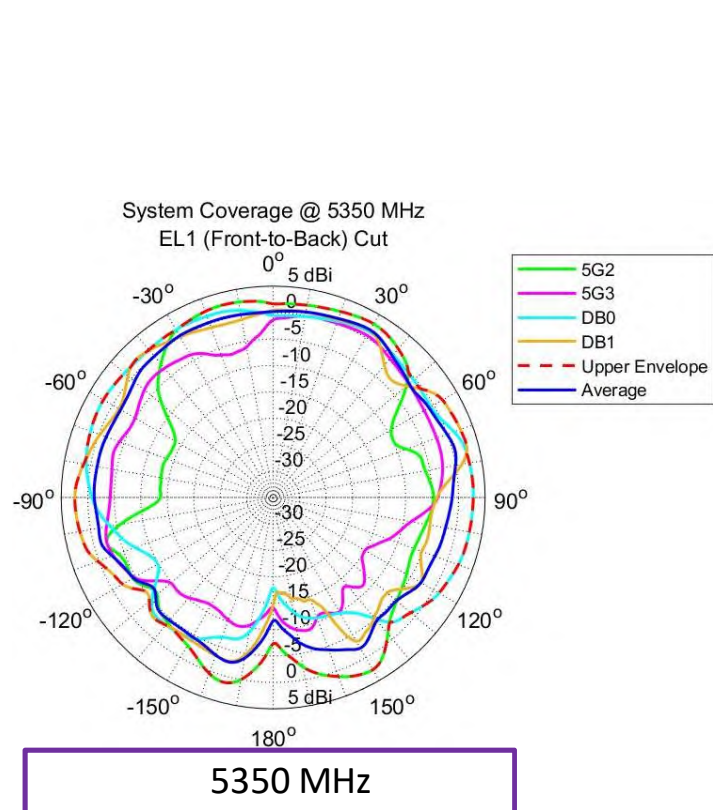
2.45 GHz



Azimuth Cut- Power Sum System Coverage Average and Envelope – 5 GHz Antennas

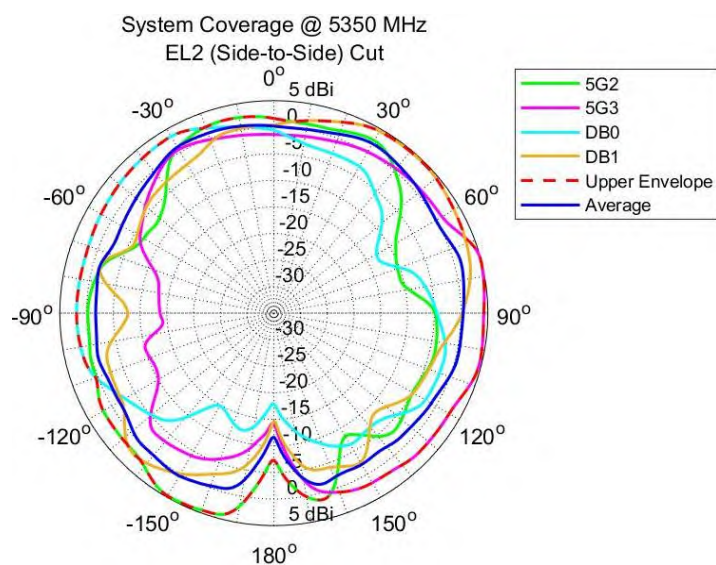
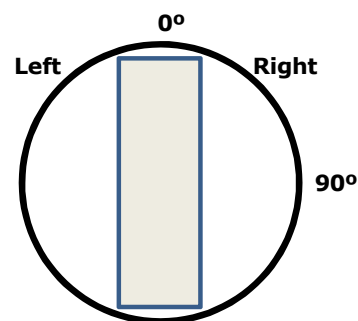


Elevation (Front to Back) Cut - Power Sum System Coverage Average and Envelope – 5 GHz Antennas

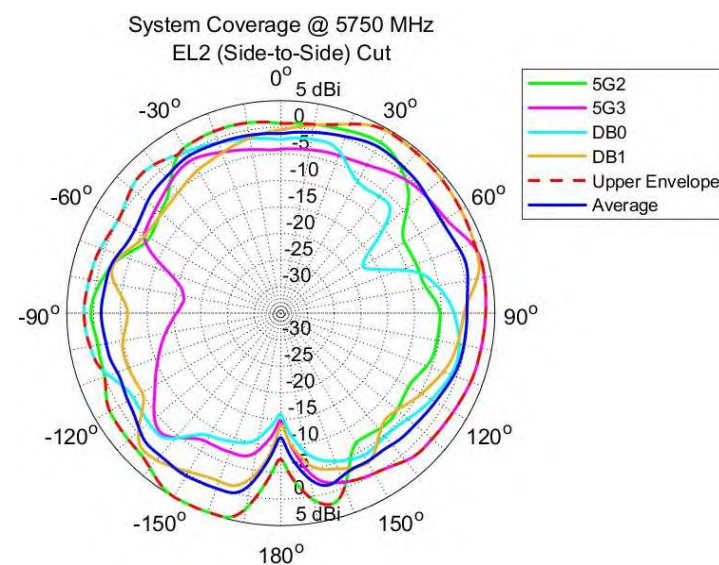


Elevation (Side to Side) Cut - Power Sum

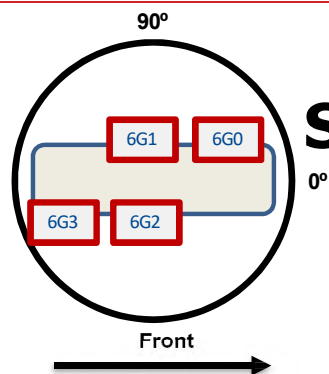
System Coverage Average and Envelope – 5 GHz Antennas



5350 MHz

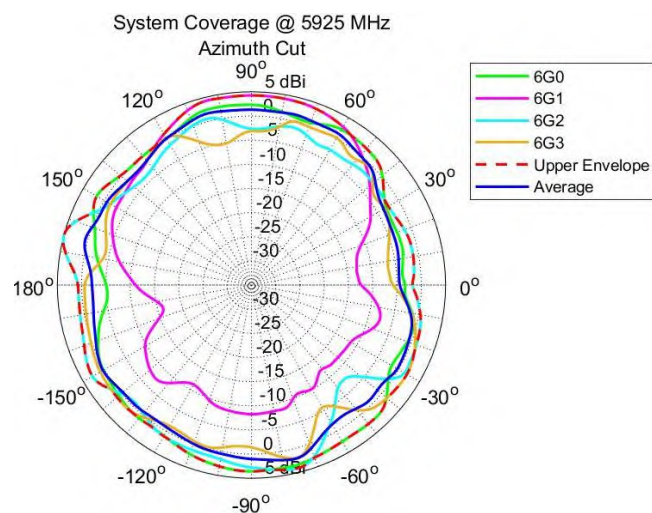


5750 MHz

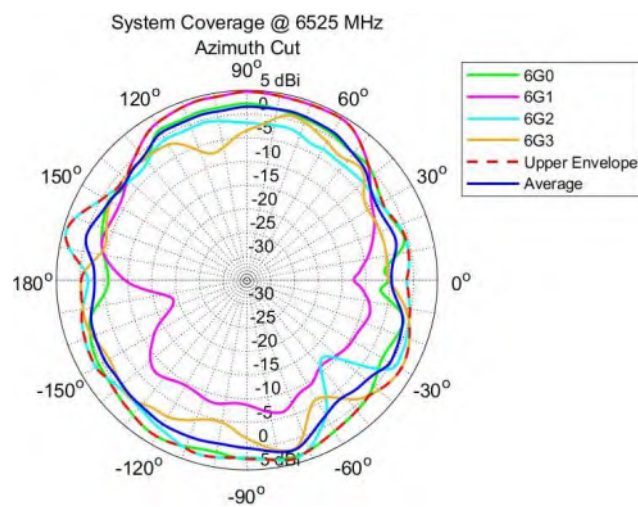


Azimuth Cut- Power Sum

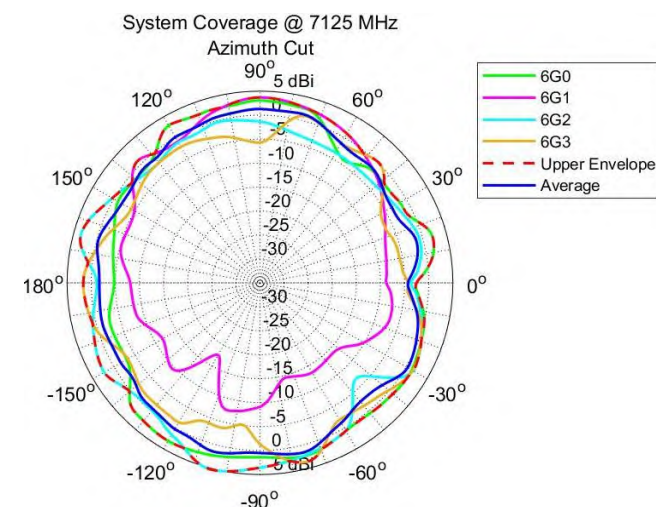
System Coverage Average and Envelope – 6 GHz Antennas



5925 MHz



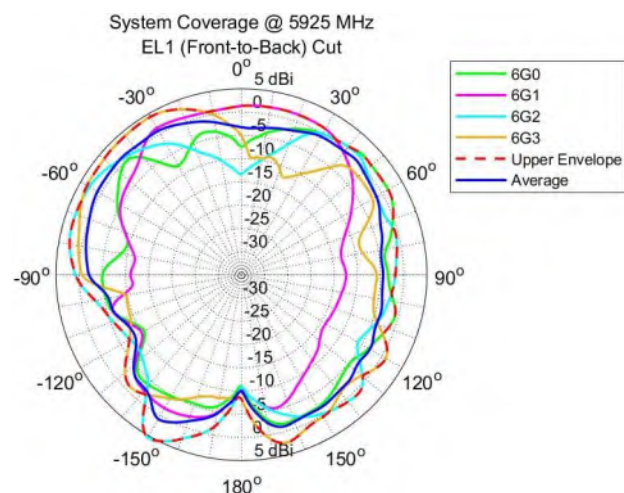
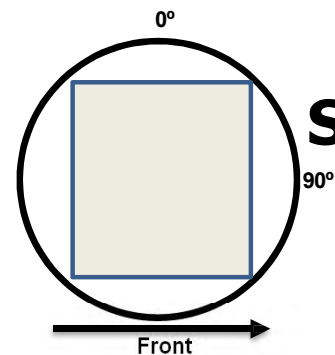
6525 MHz



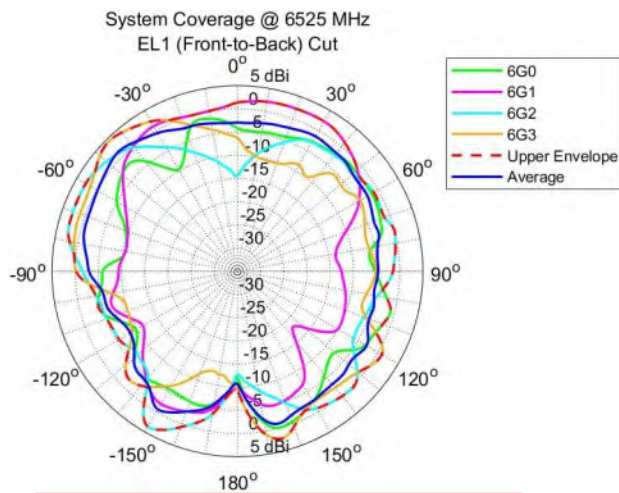
7125 MHz

Elevation (Front to Back) Cut - Power Sum

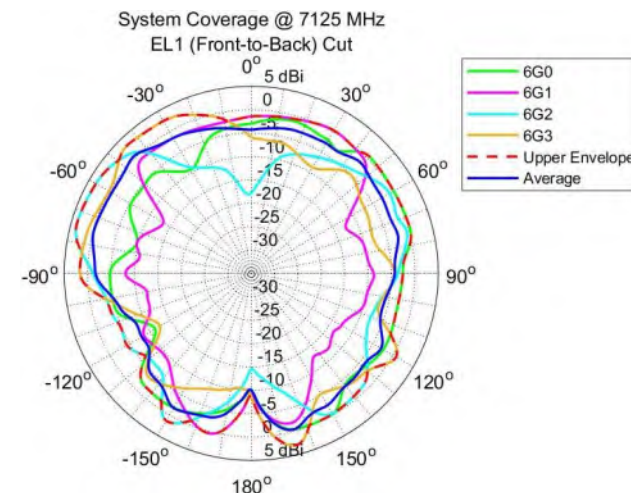
System Coverage Average and Envelope – 6 GHz Antennas



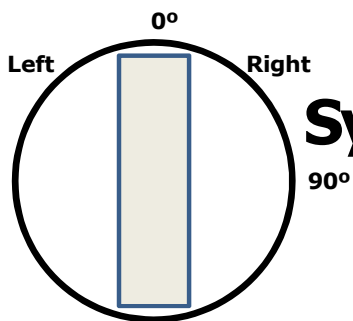
5925 MHz



6525 MHz

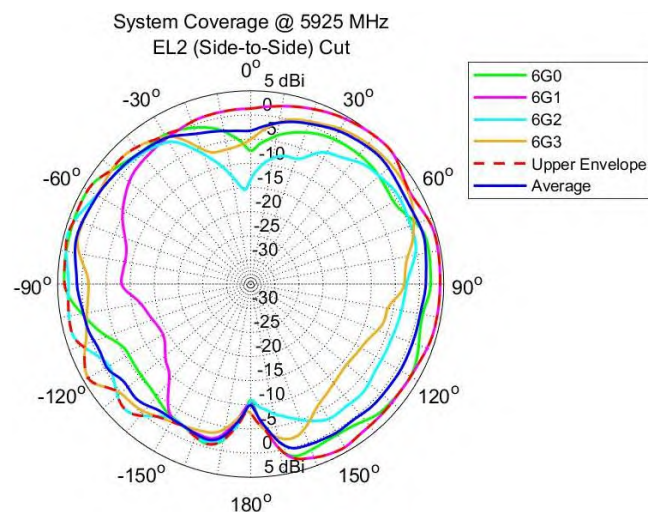


7125 MHz

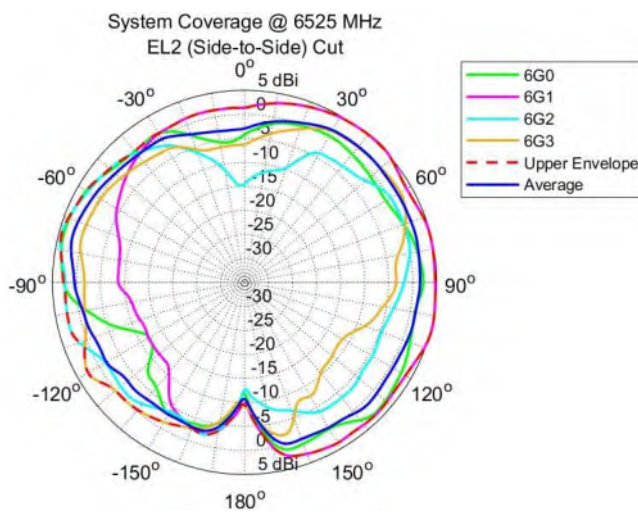


Elevation (Side to Side) Cut - Power Sum

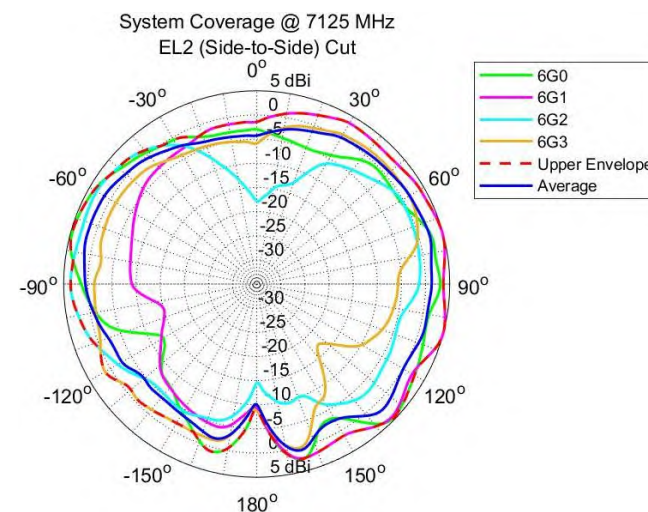
System Coverage Average and Envelope – 6 GHz Antennas



5925 MHz



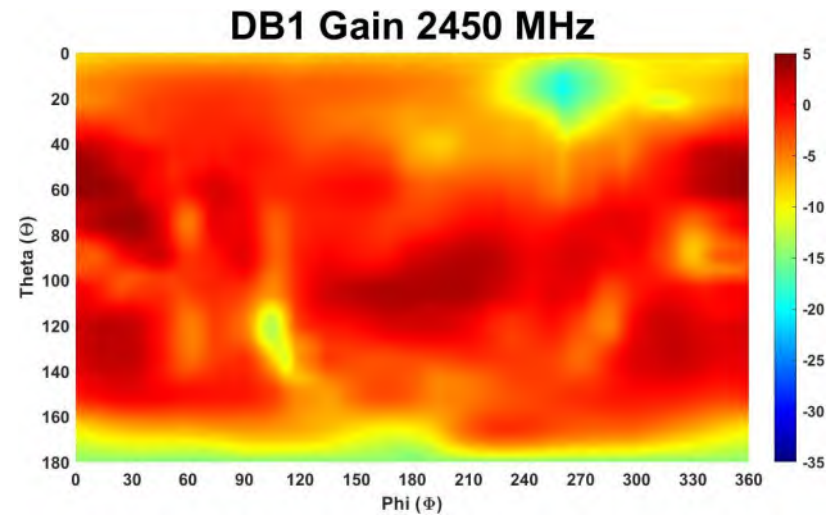
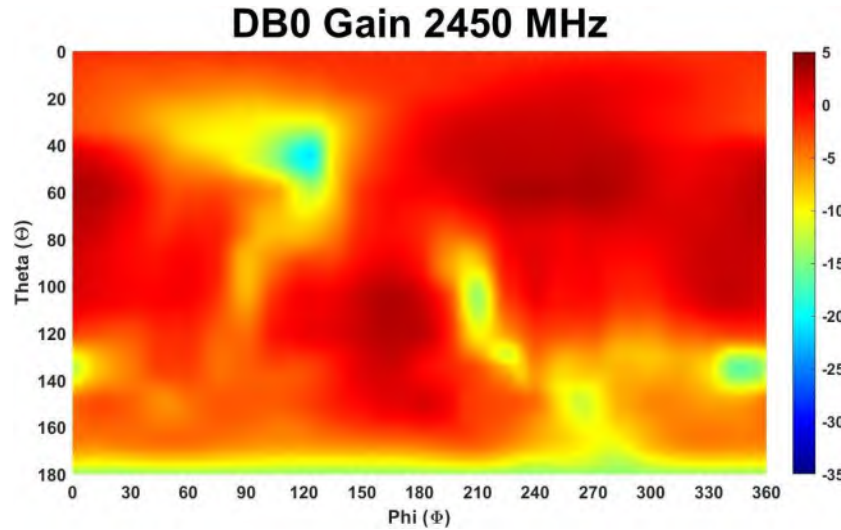
6525 MHz



7125 MHz

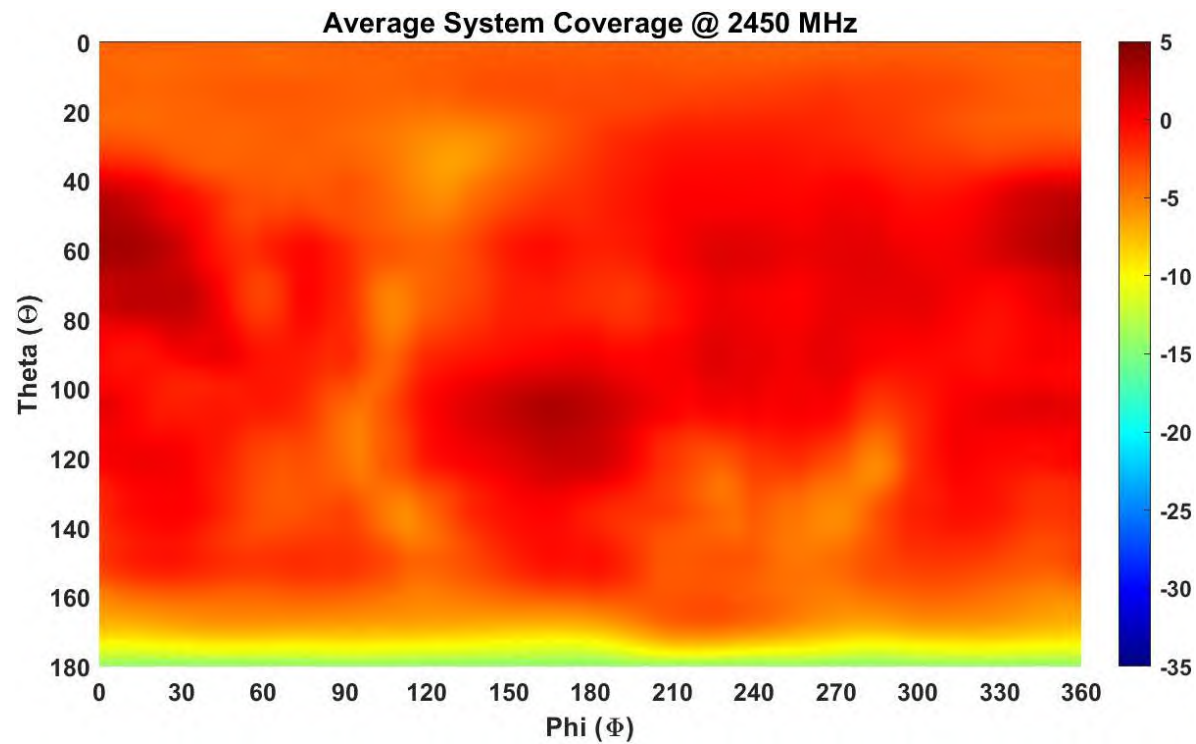
Gain Heatmap (dBi)

DB Antennas 2.45 GHz

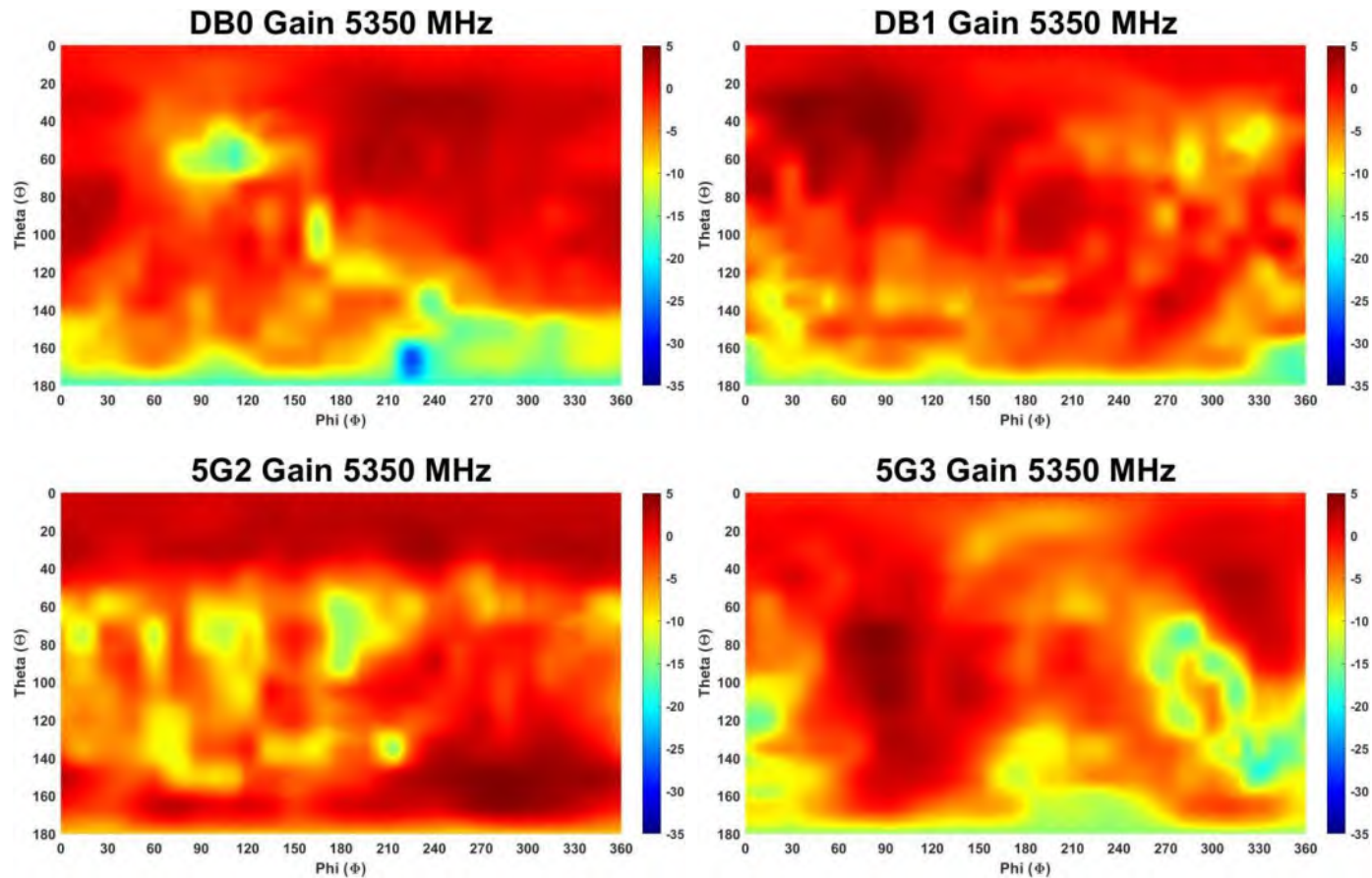


System Coverage Average Heatmap (dBi)

DB Antennas 2.45 GHz

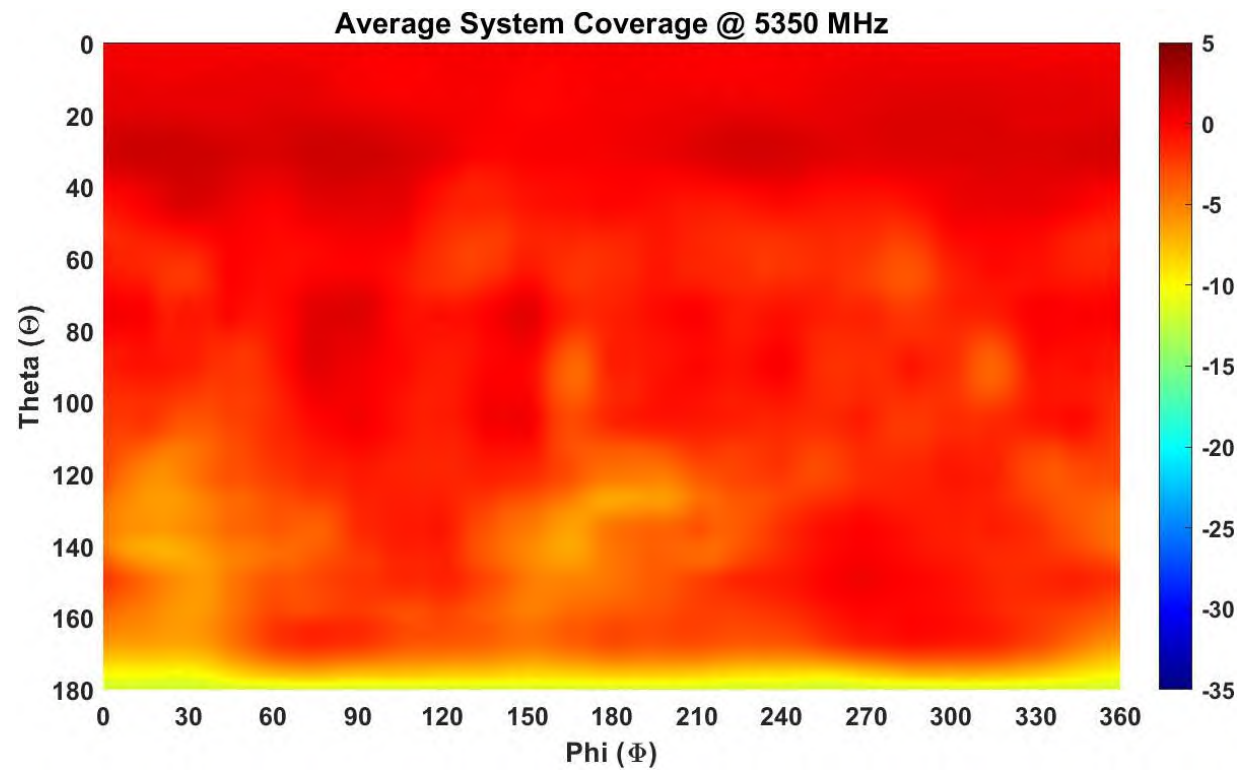


Gain Heatmap (dBi) 5 GHz Antennas

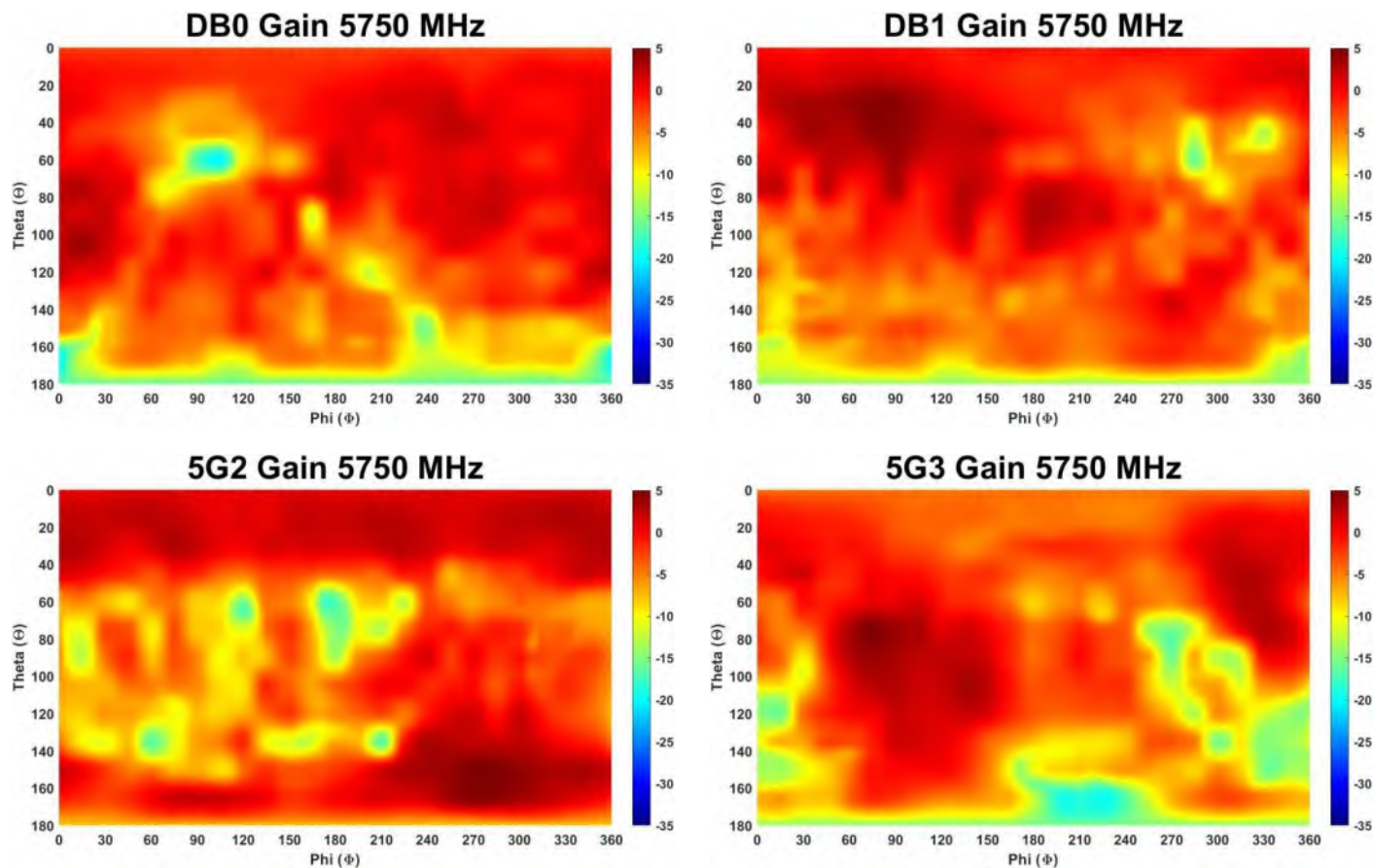


System Coverage Average Heatmap (dBi)

5 GHz Antennas

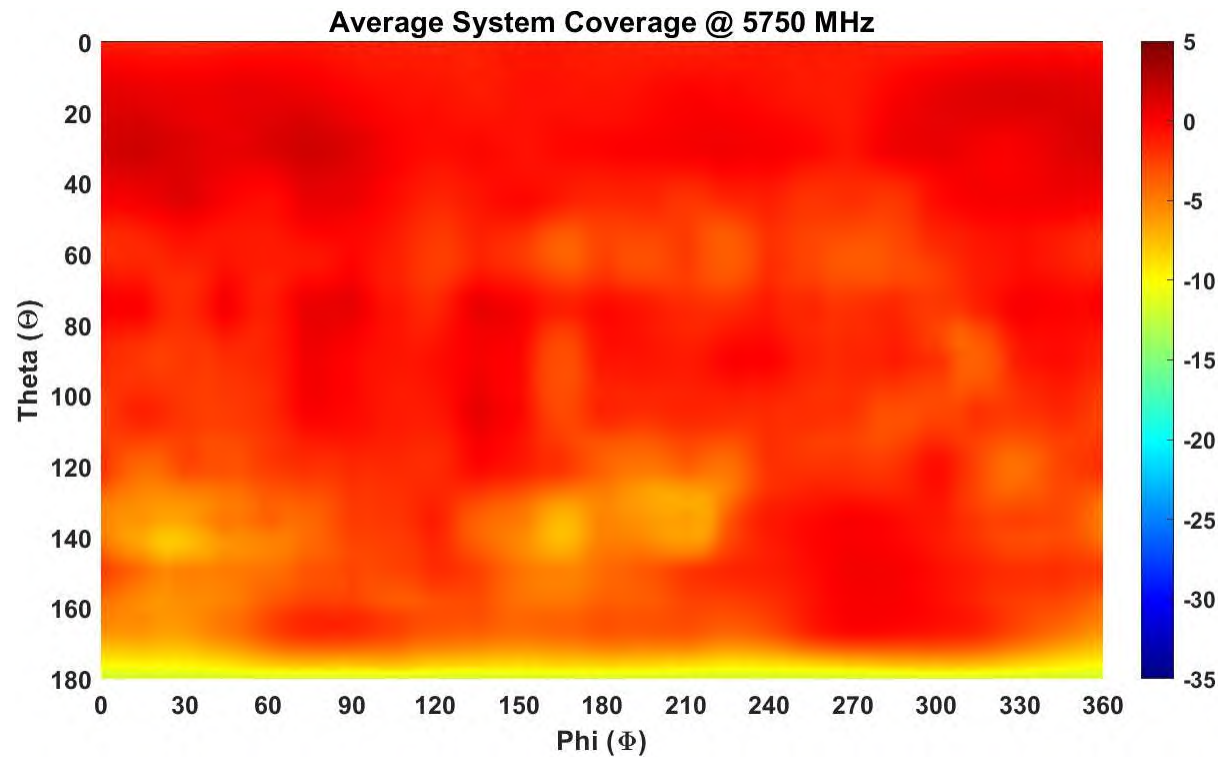


Gain Heatmap (dBi) 5 GHz Antennas



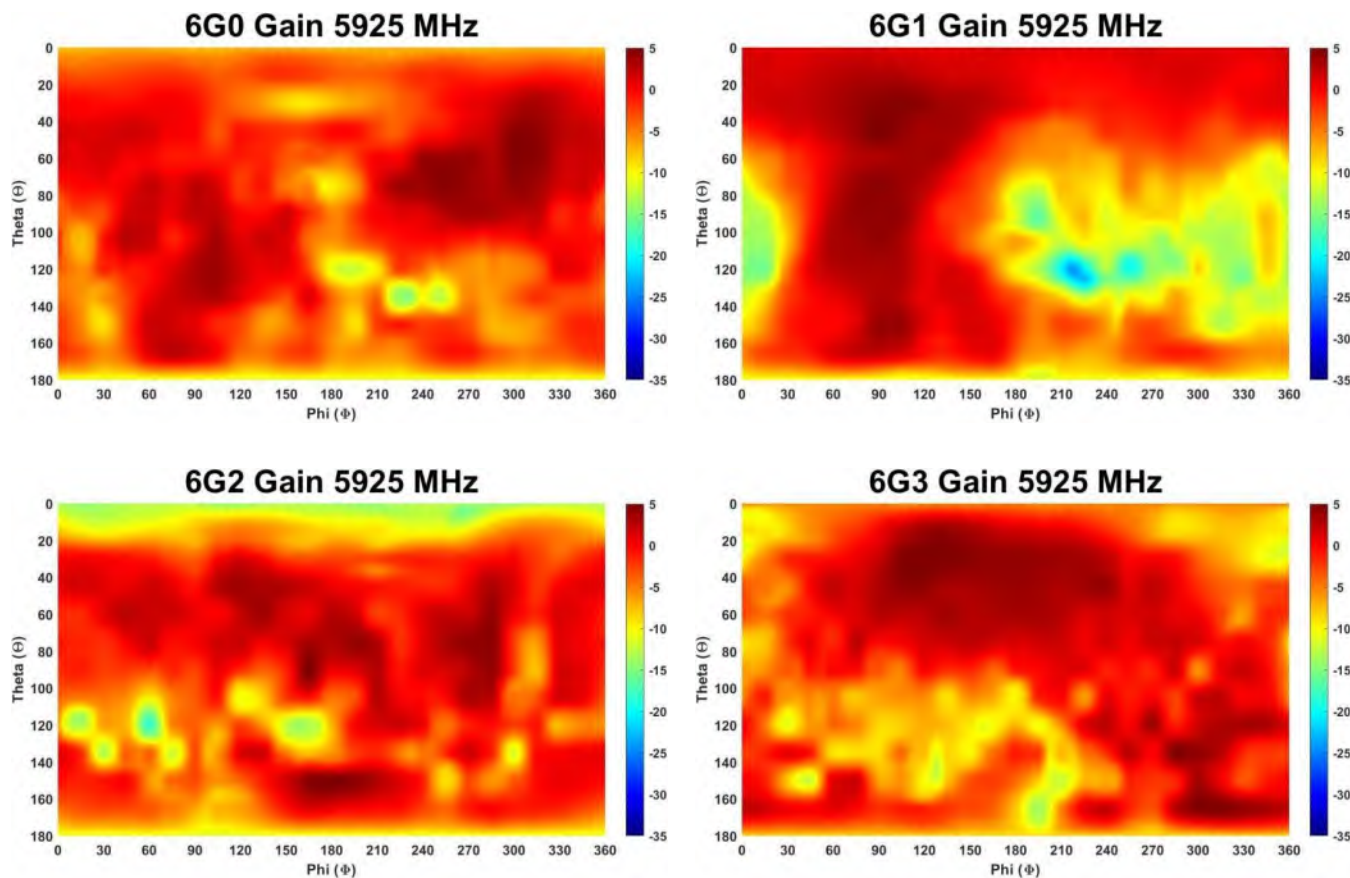
System Coverage Average Heatmap (dBi)

5 GHz Antennas



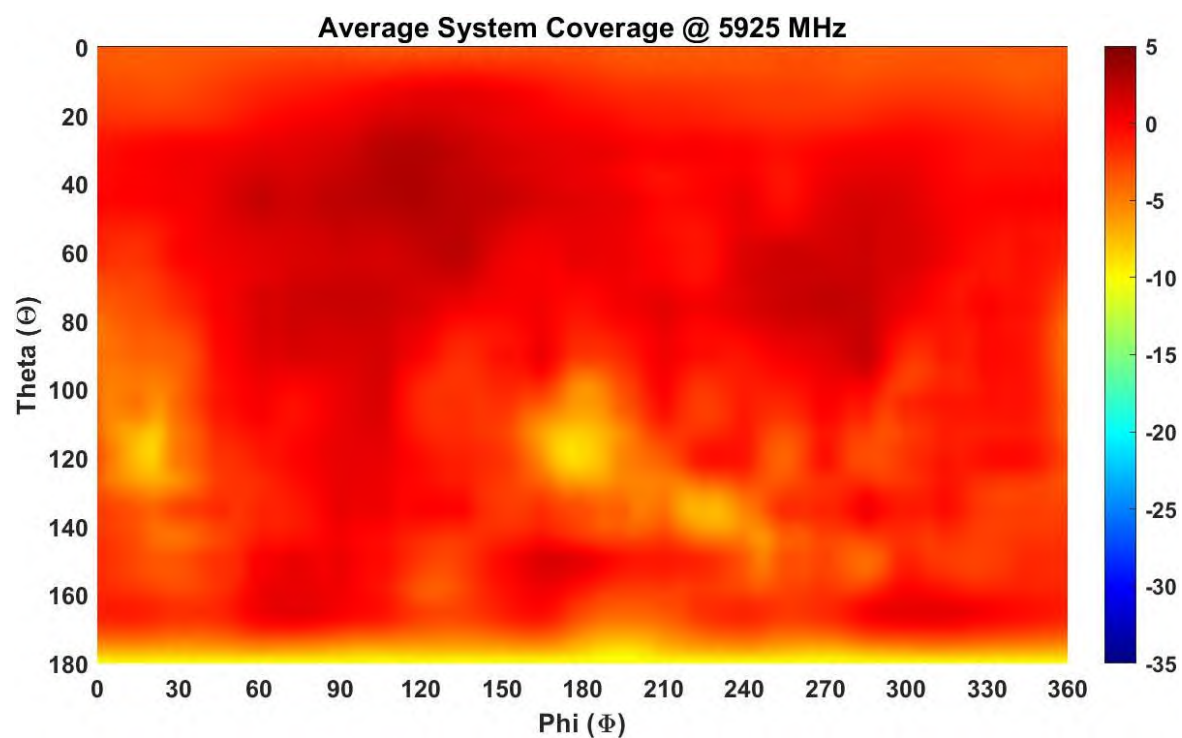
Gain Heatmap (dBi)

Antennas 6 GHz



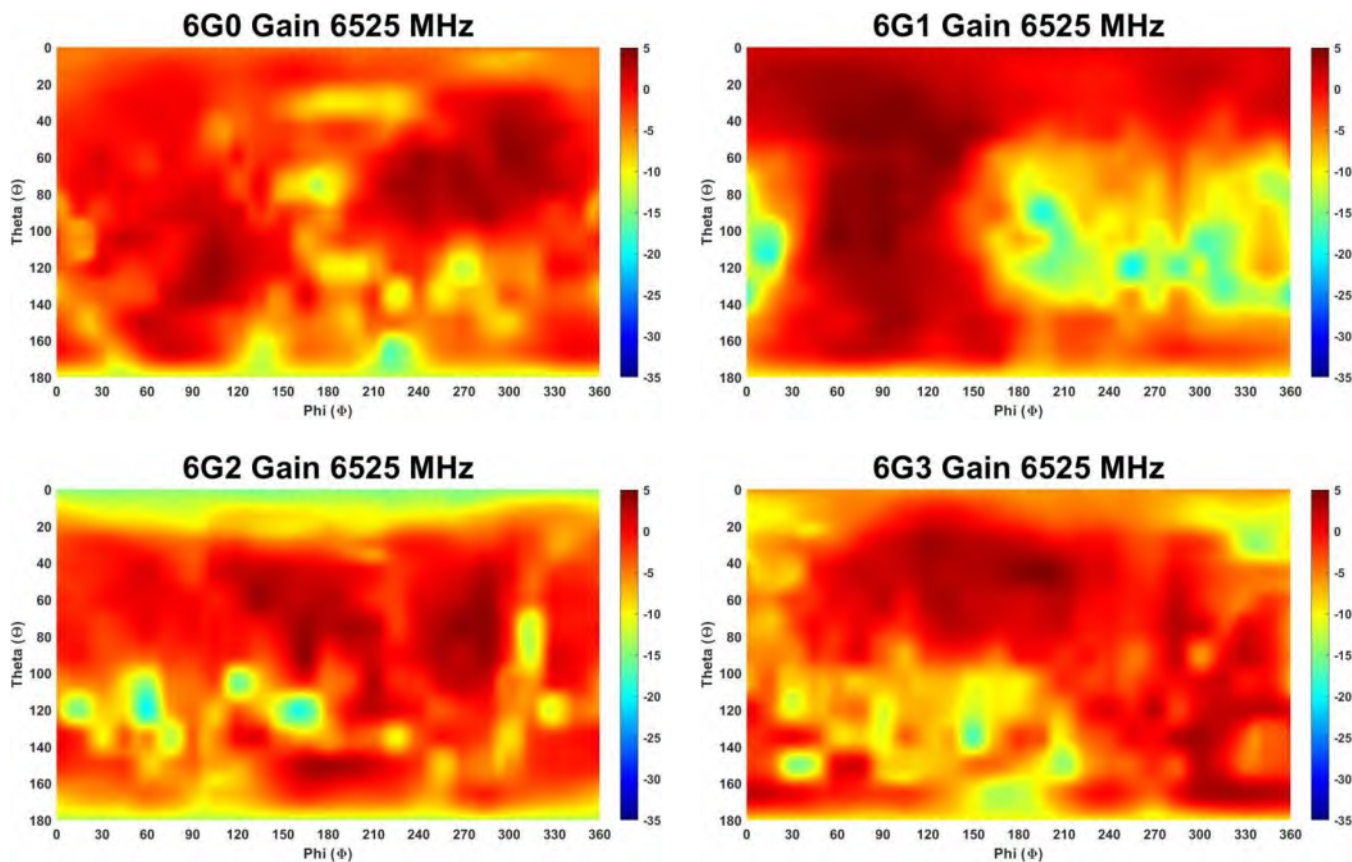
System Coverage Average Heatmap (dBi)

Antennas 6 GHz

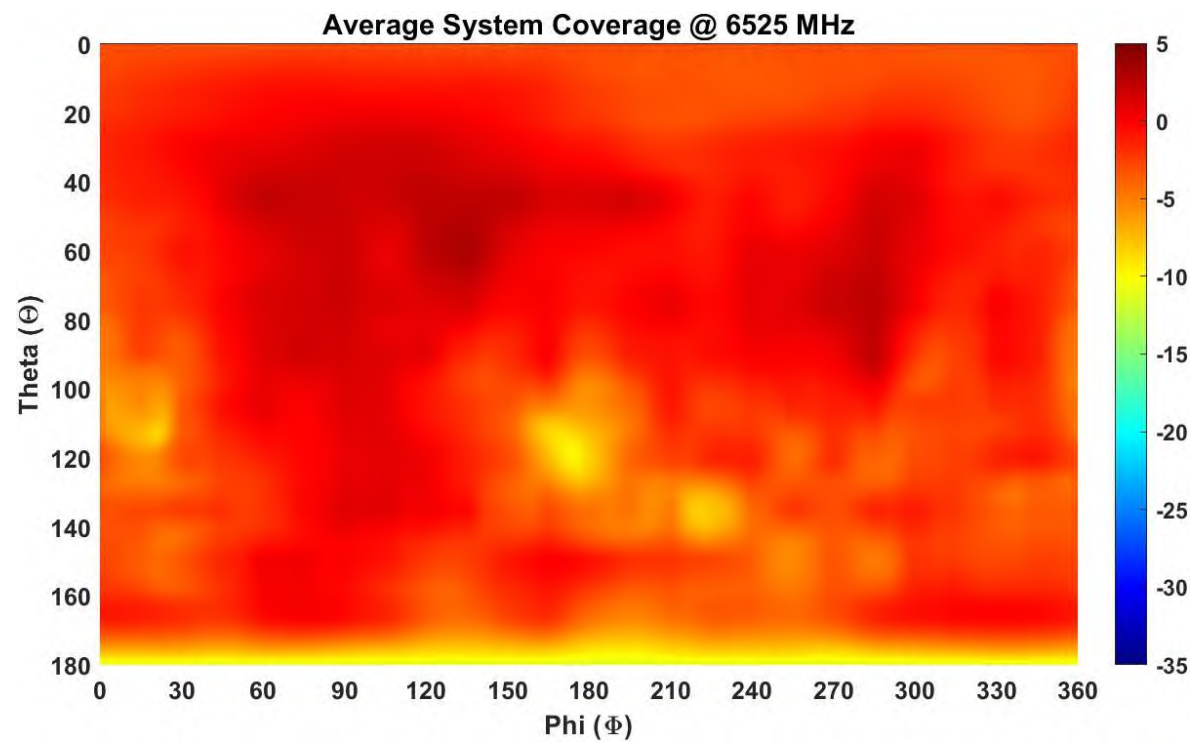


Gain Heatmap (dBi)

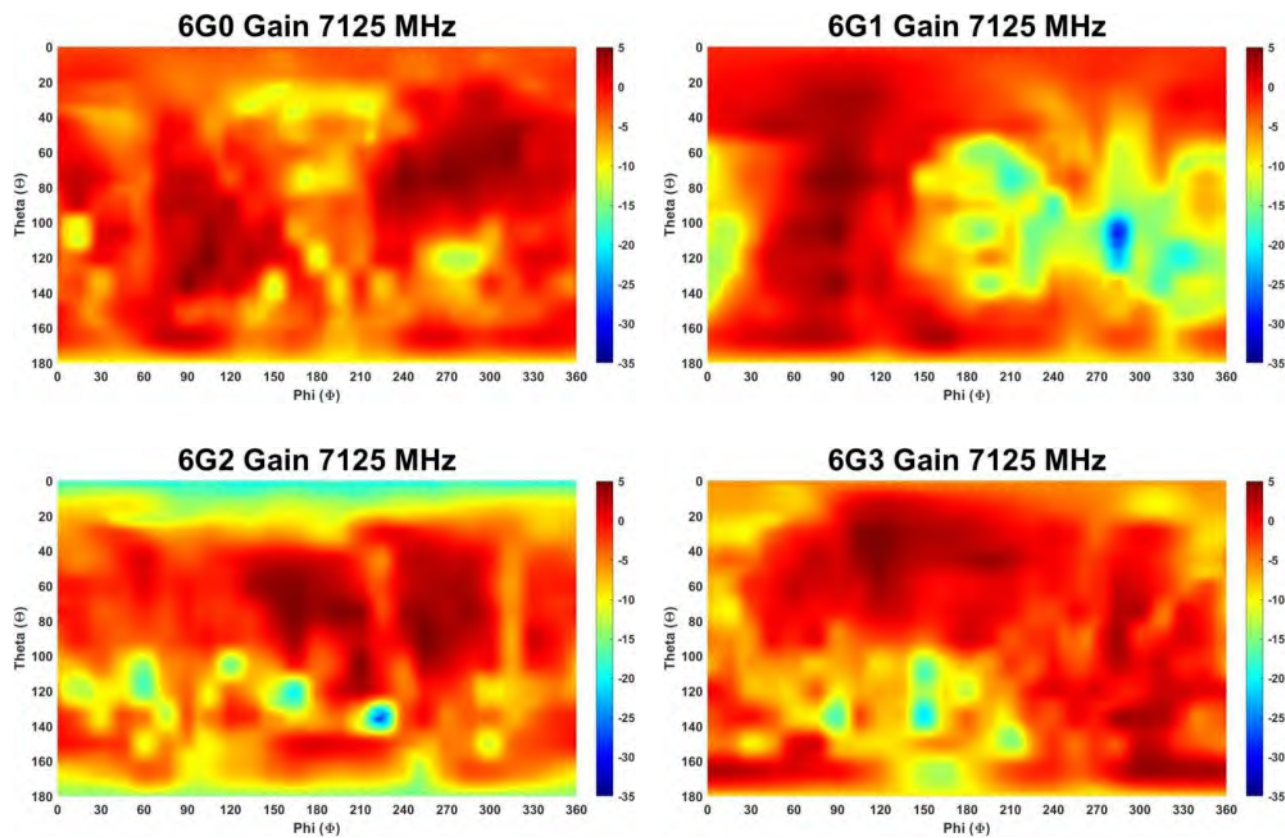
Antennas 6 GHz



System Coverage Average Heatmap (dBi) Antennas 6 GHz

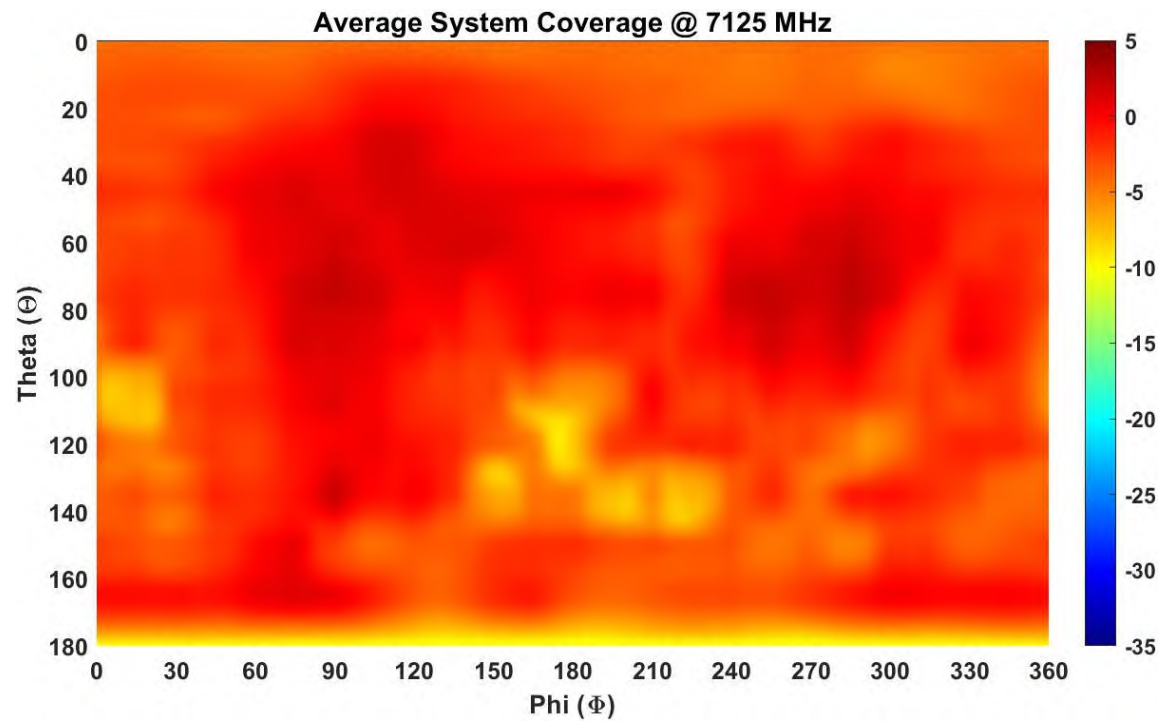


Gain Heatmap (dBi) Antennas 6 GHz

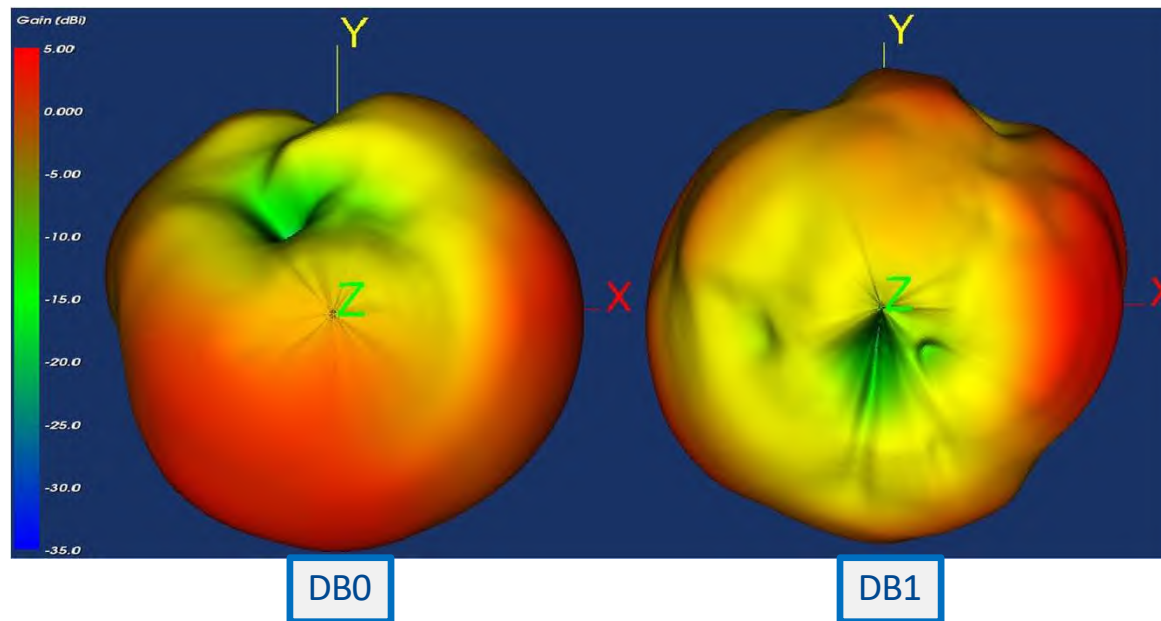
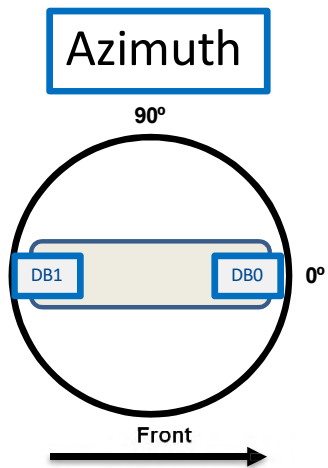


System Coverage Average Heatmap (dBi)

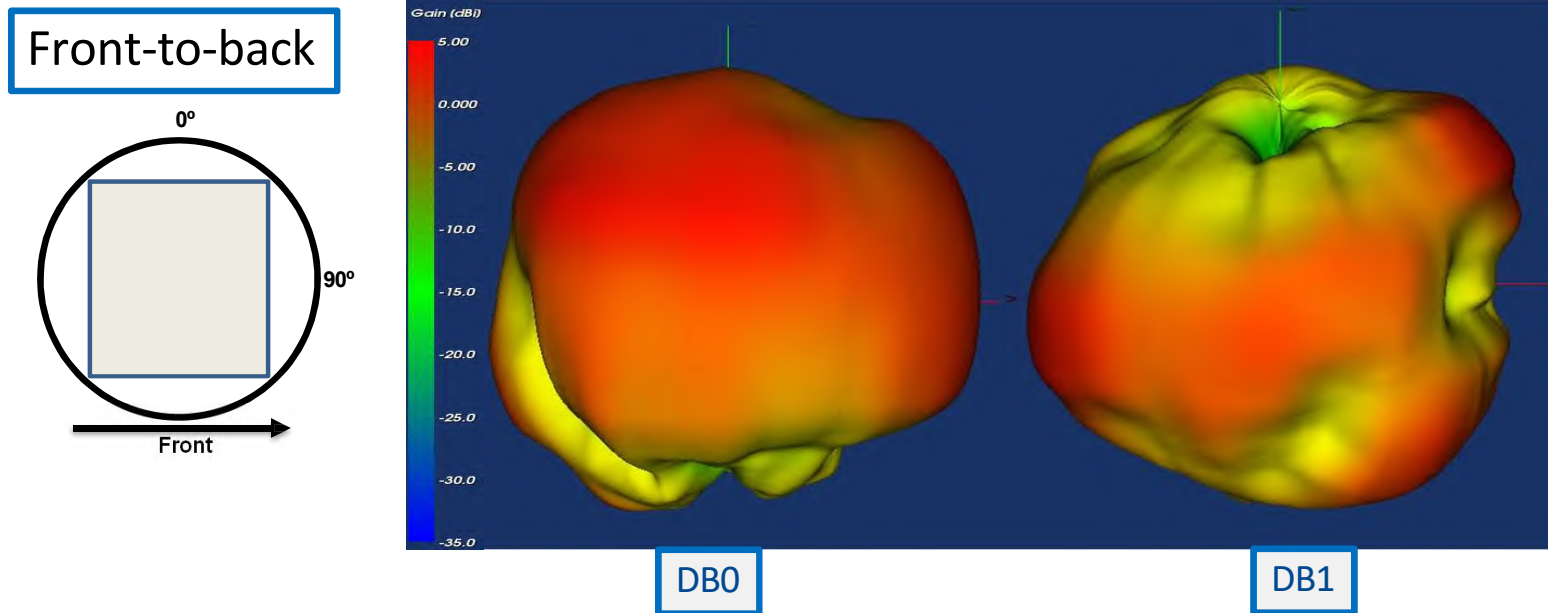
Antennas 6 GHz



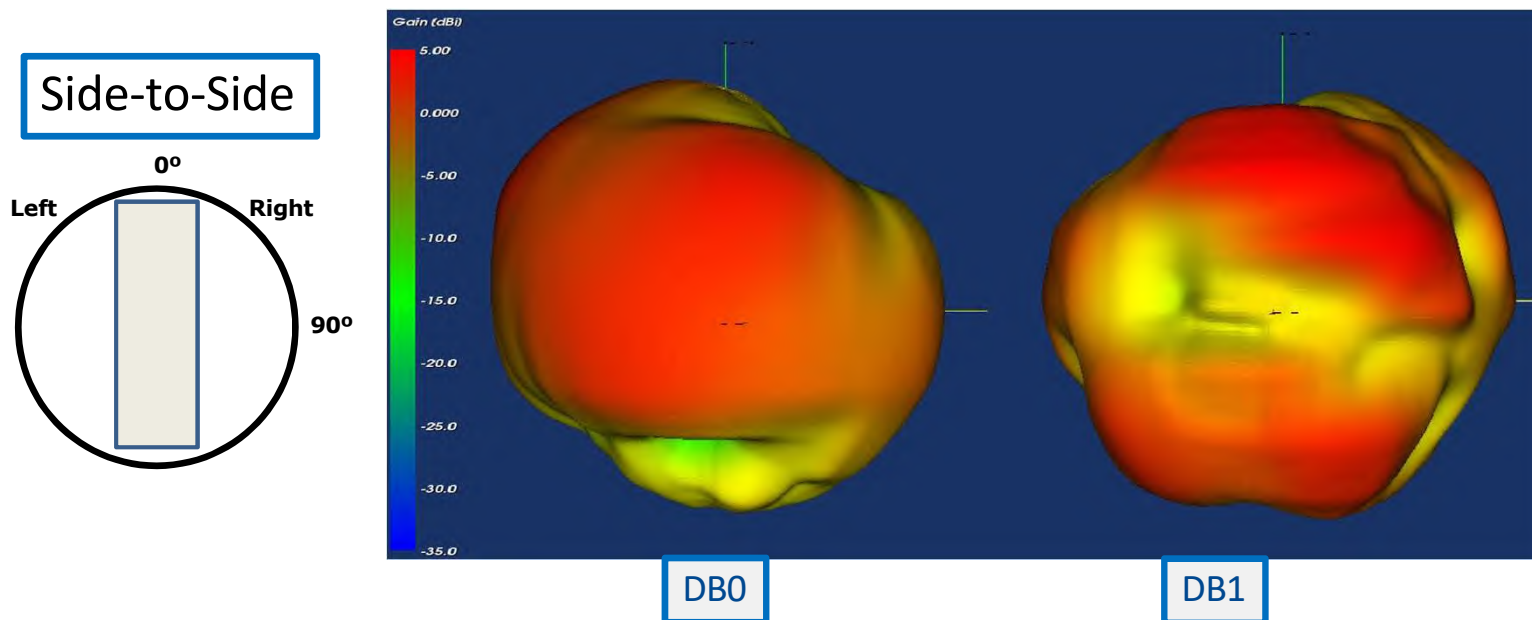
3D Gain Plot-DB Antennas-2.45GHz



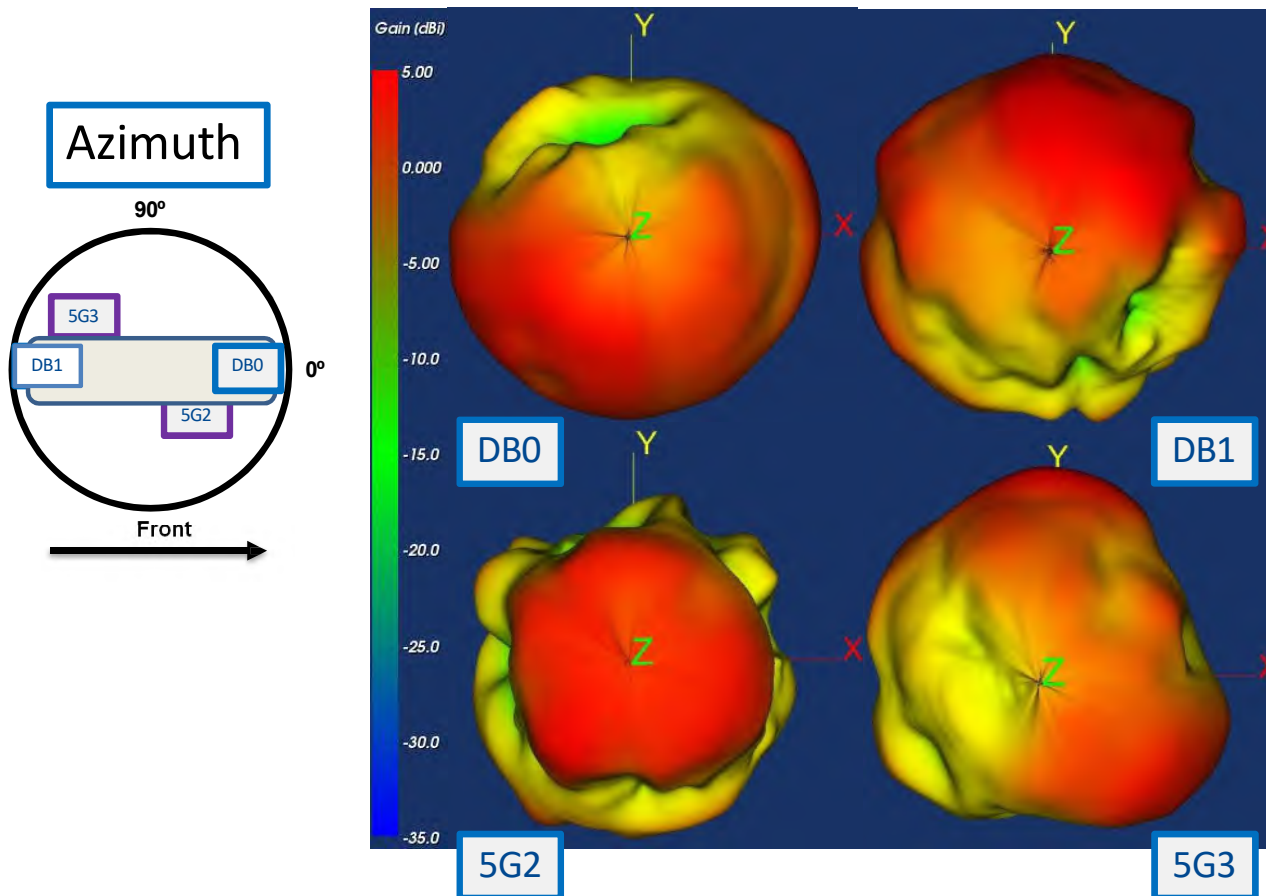
3D Gain Plot-DB Antennas-2.45GHz



3D Gain Plot-DB Antennas-2.45GHz

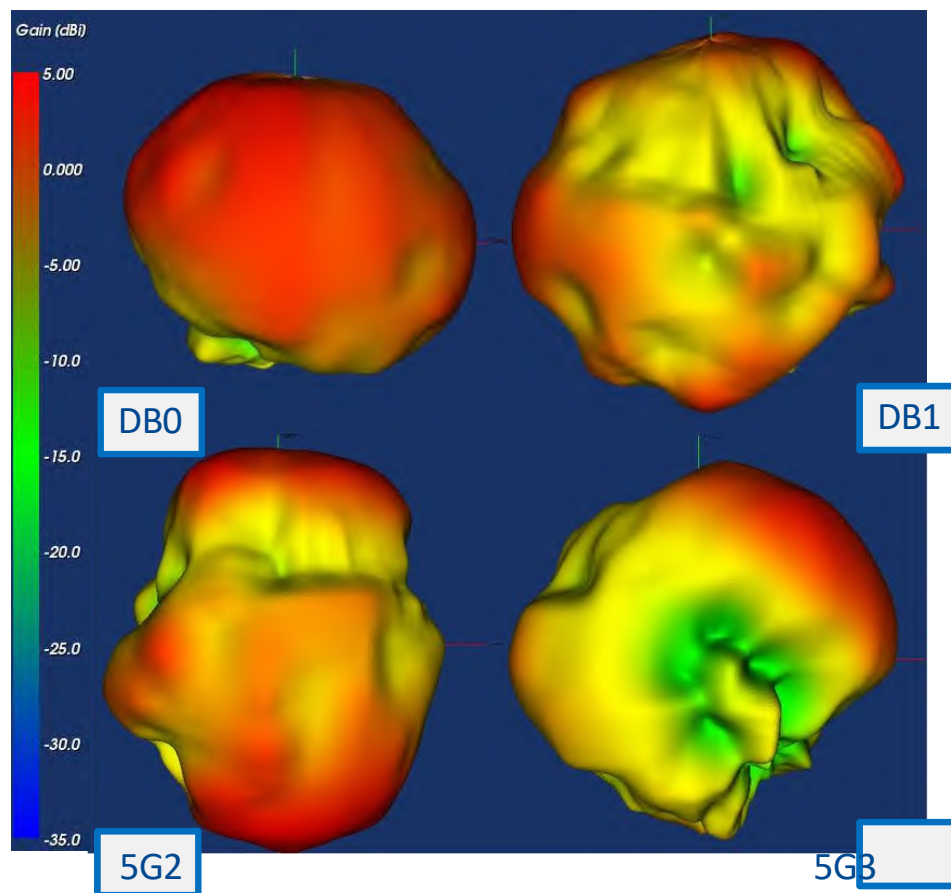
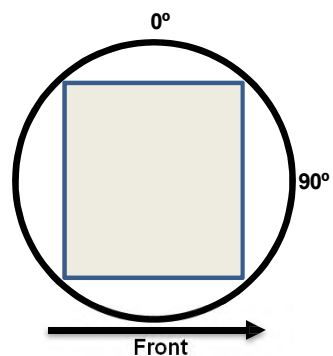


3D Gain Plot-5 GHz Antennas-5.35GHz

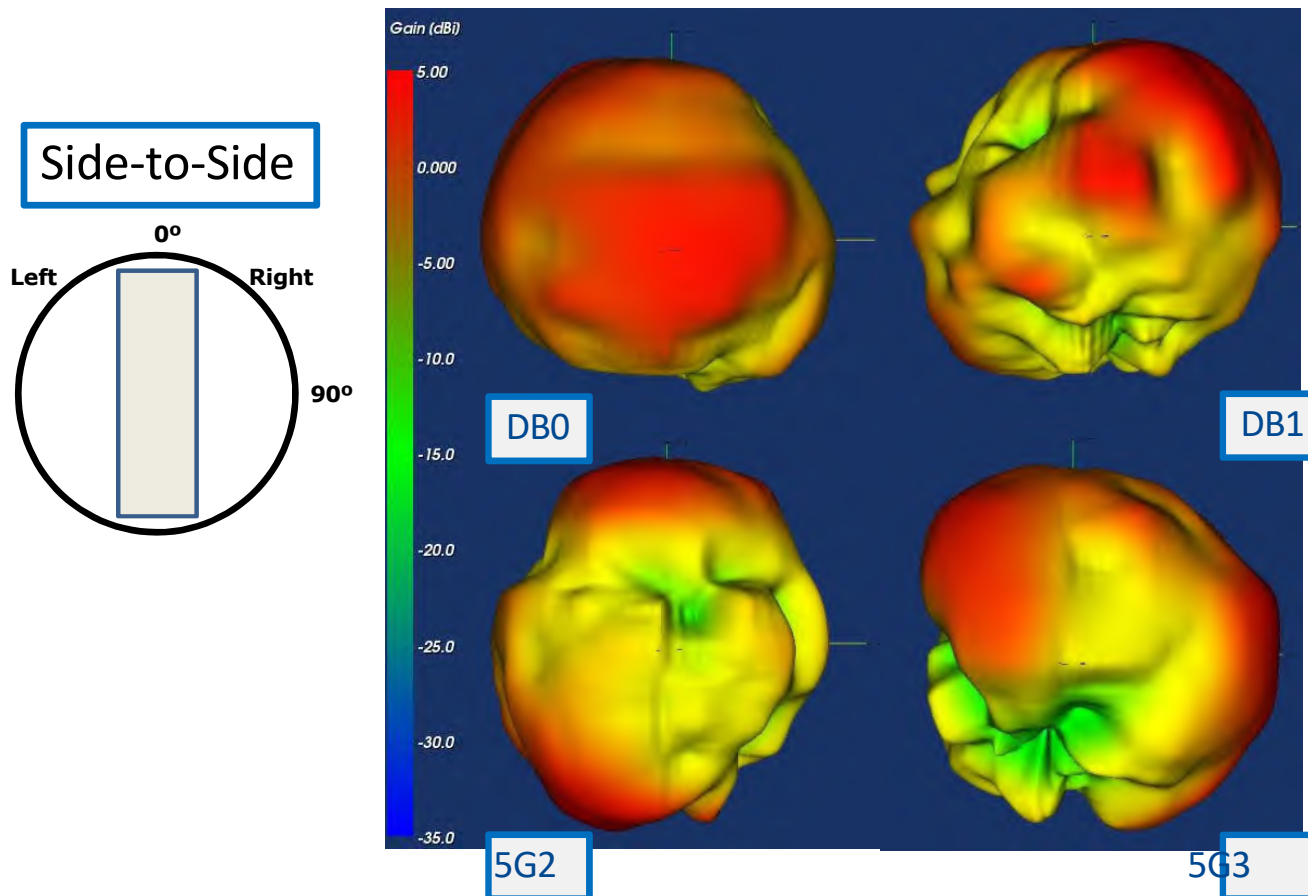


3D Gain Plot-5 GHz Antennas-5.35GHz

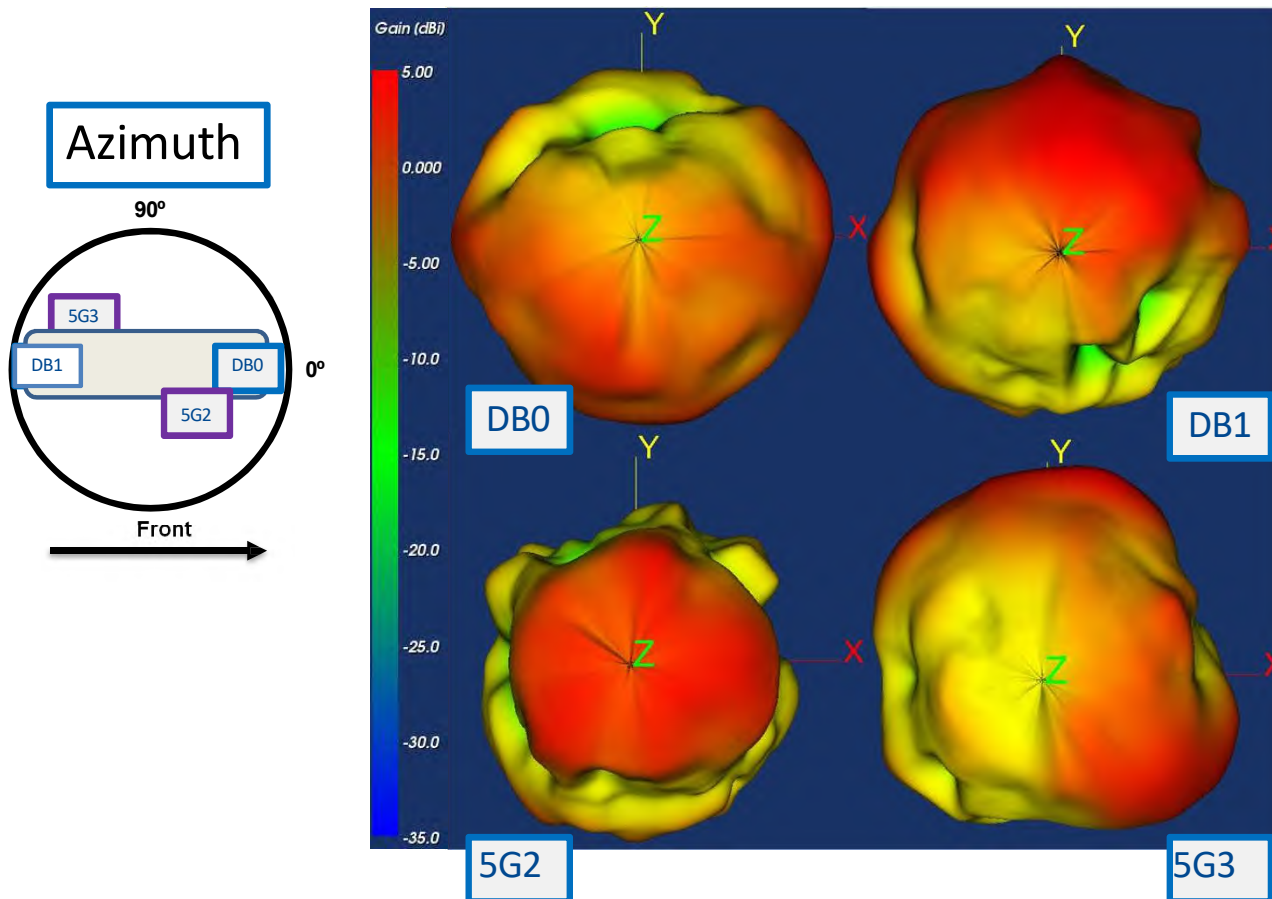
Front-to-back



3D Gain Plot-5 GHz Antennas-5.35GHz

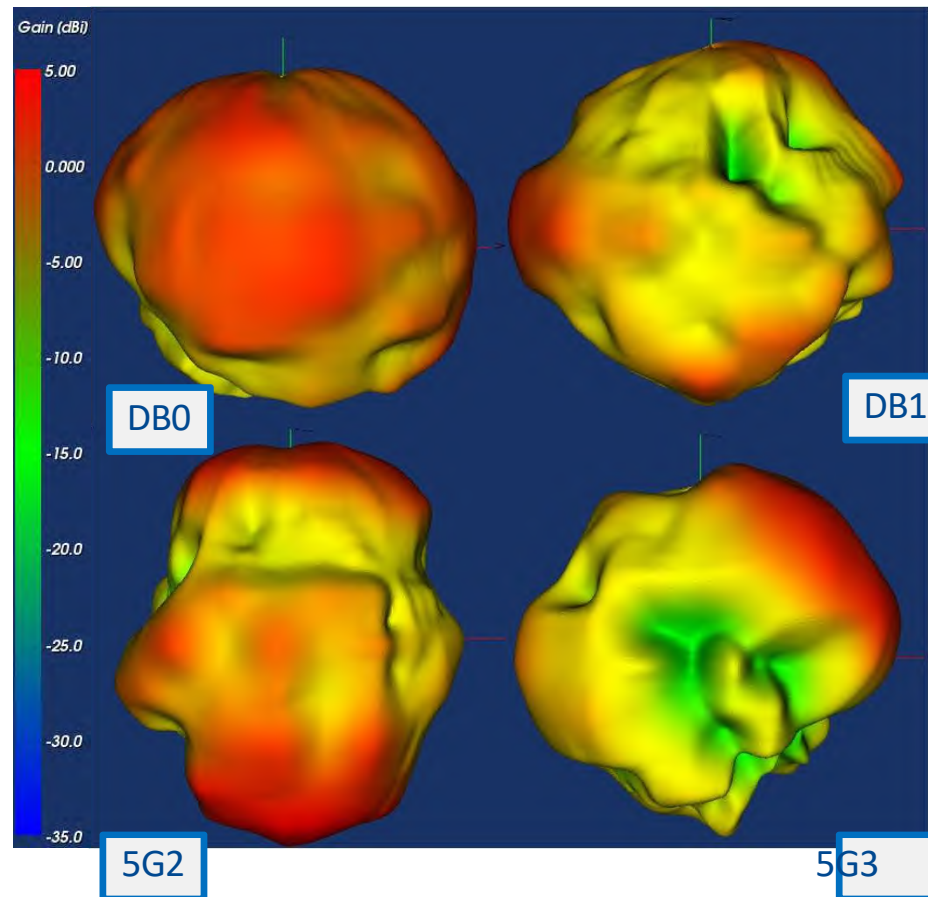
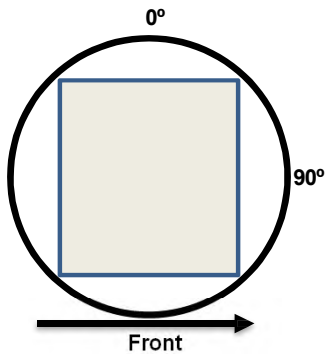


3D Gain Plot-5 GHz Antennas-5.75GHz

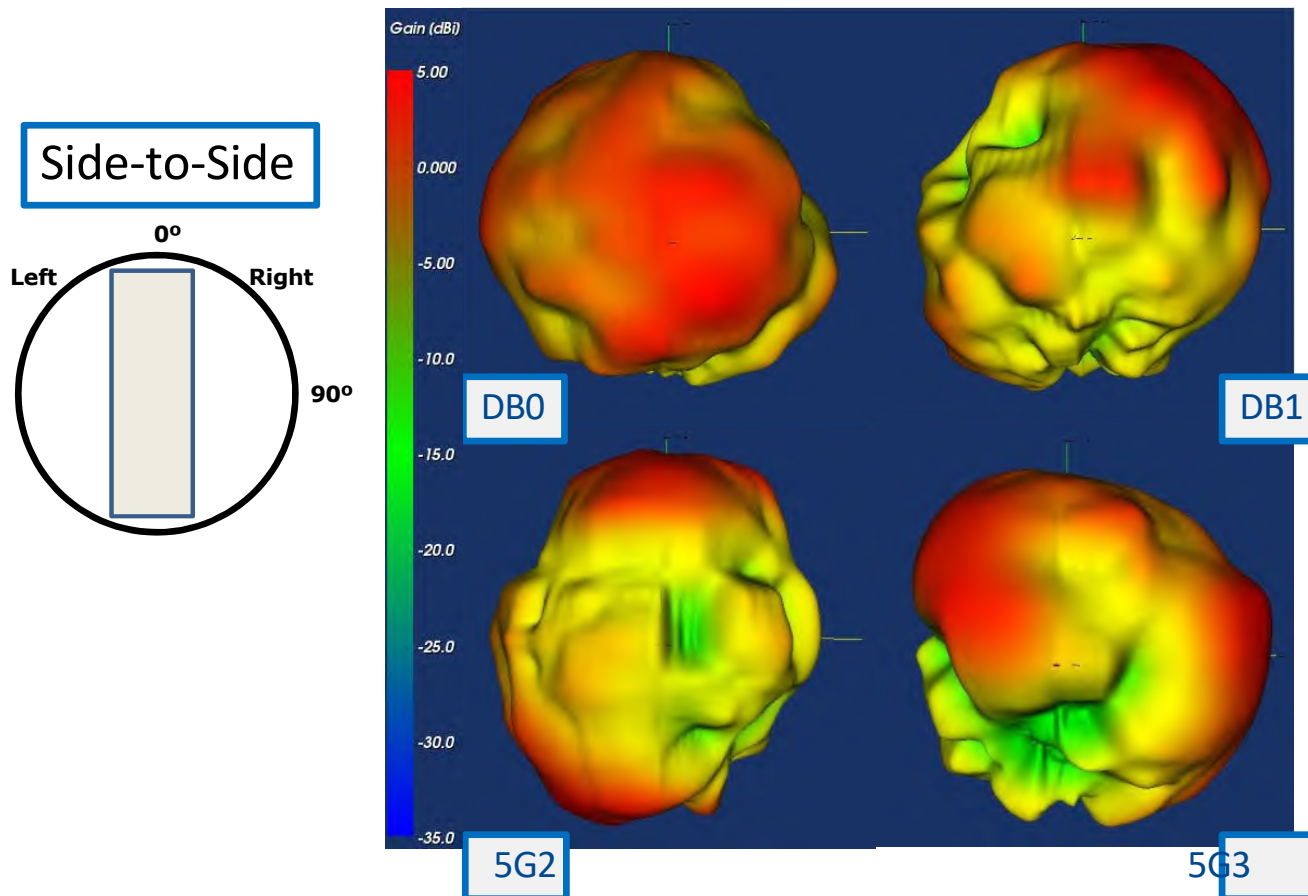


3D Gain Plot-5 GHz Antennas-5.75GHz

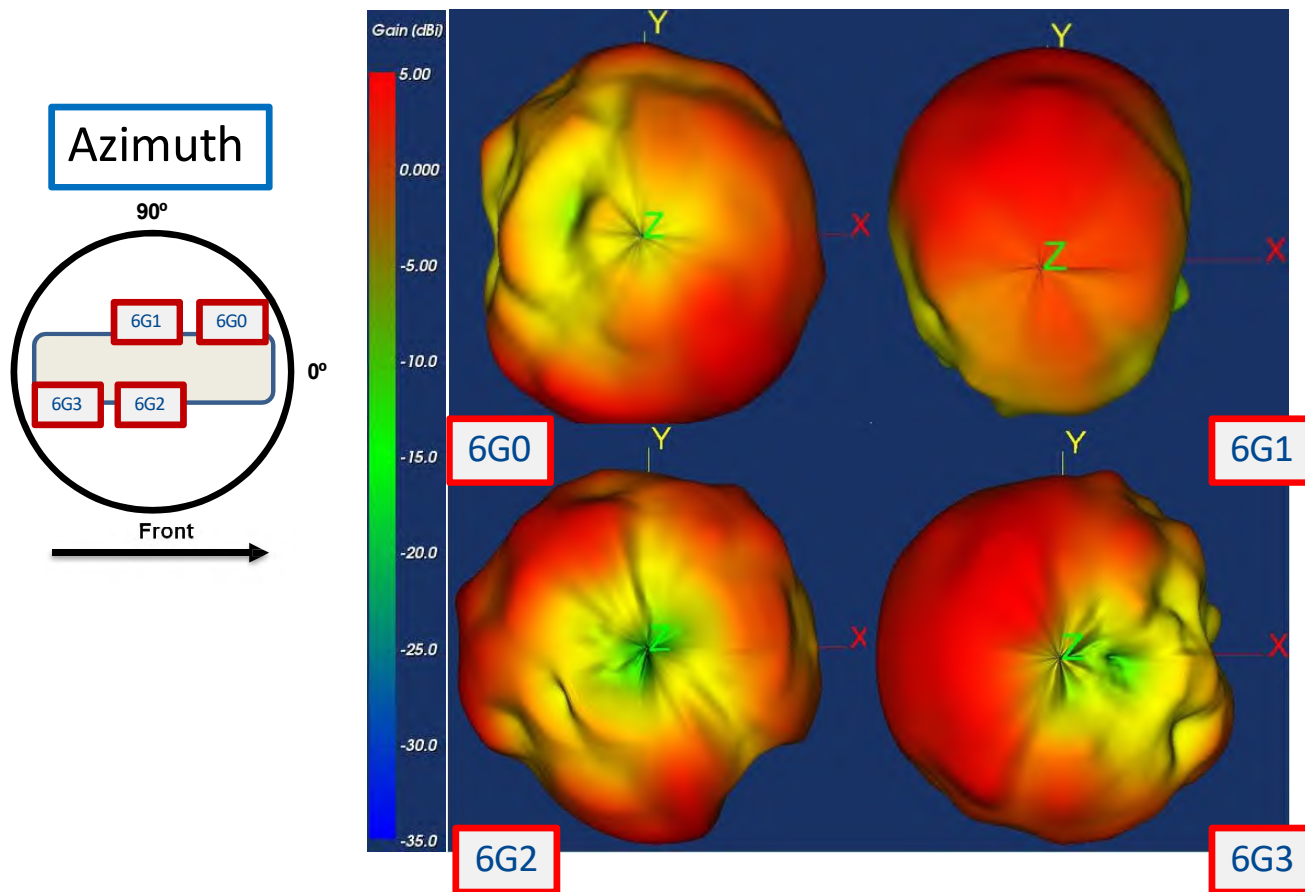
Front-to-back



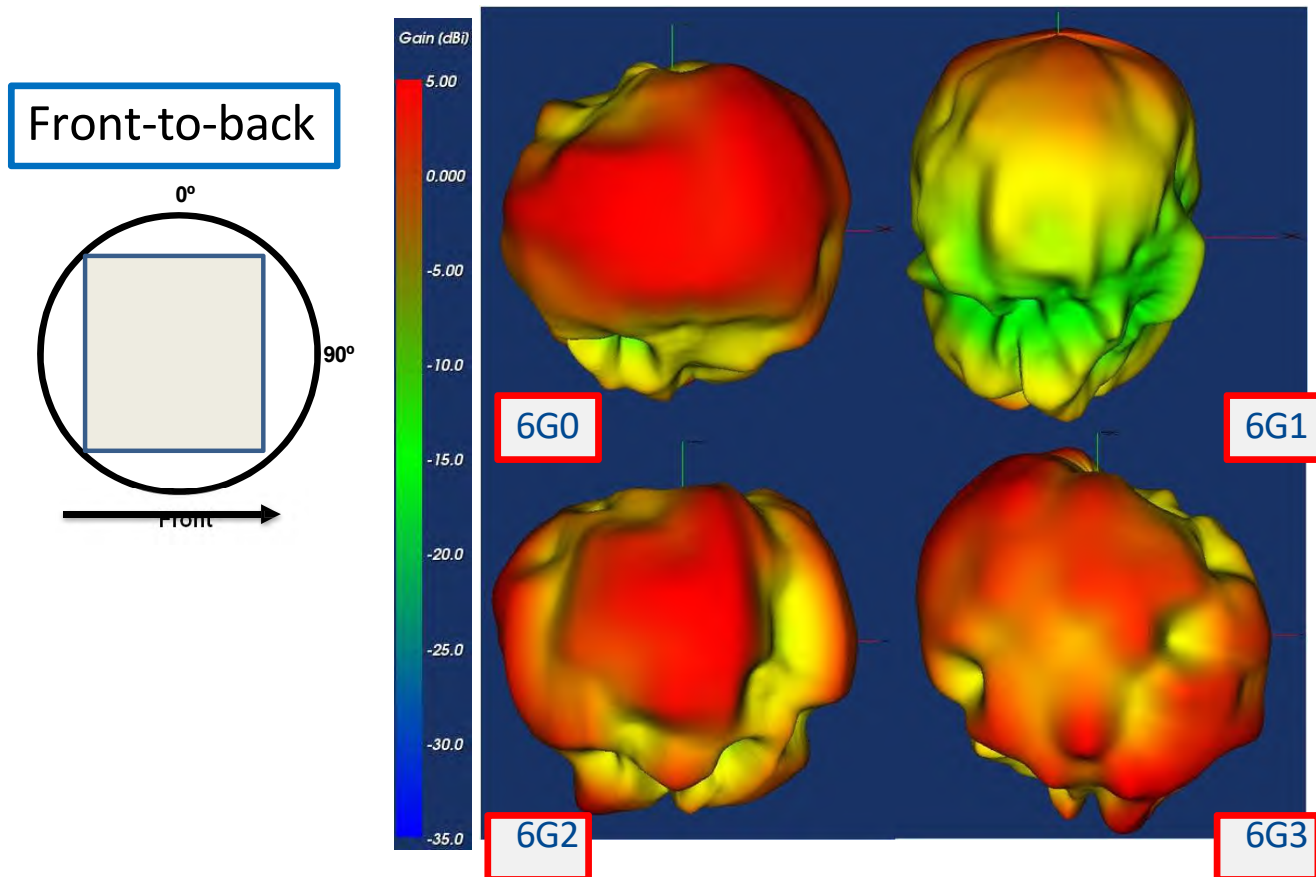
3D Gain Plot-5 GHz Antennas-5.75GHz



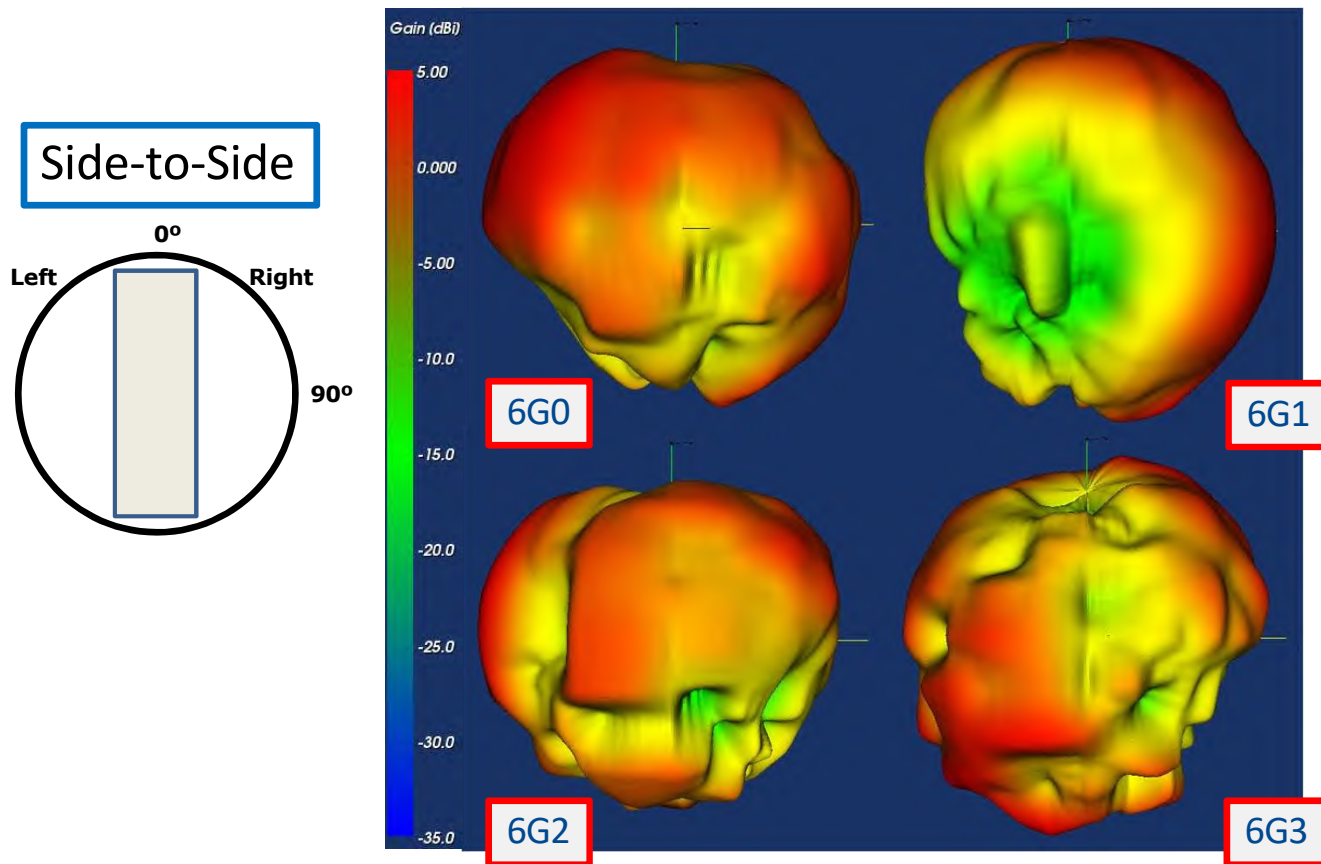
3D Gain Plot-6 GHz Antennas-5.925GHz



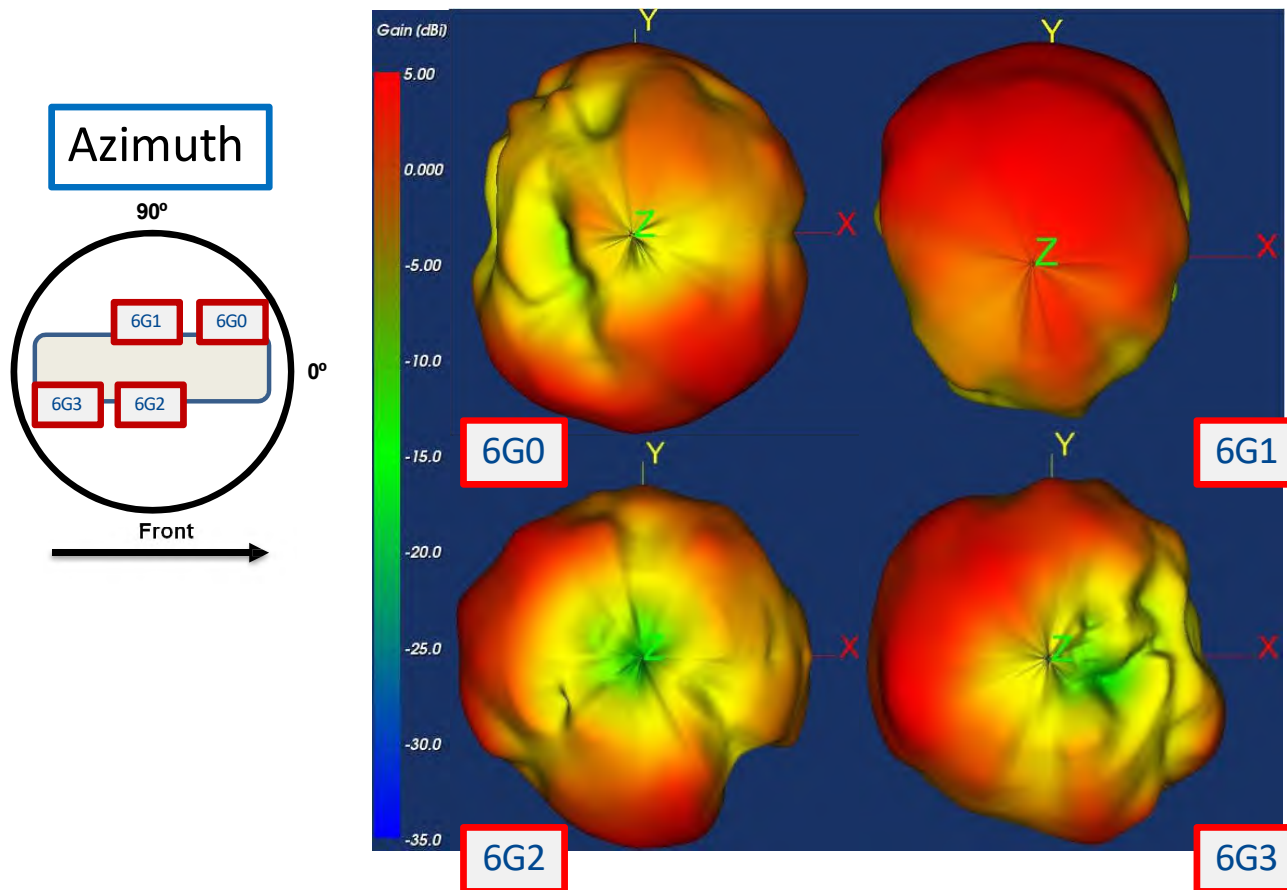
3D Gain Plot-6 GHz Antennas-5.925GHz



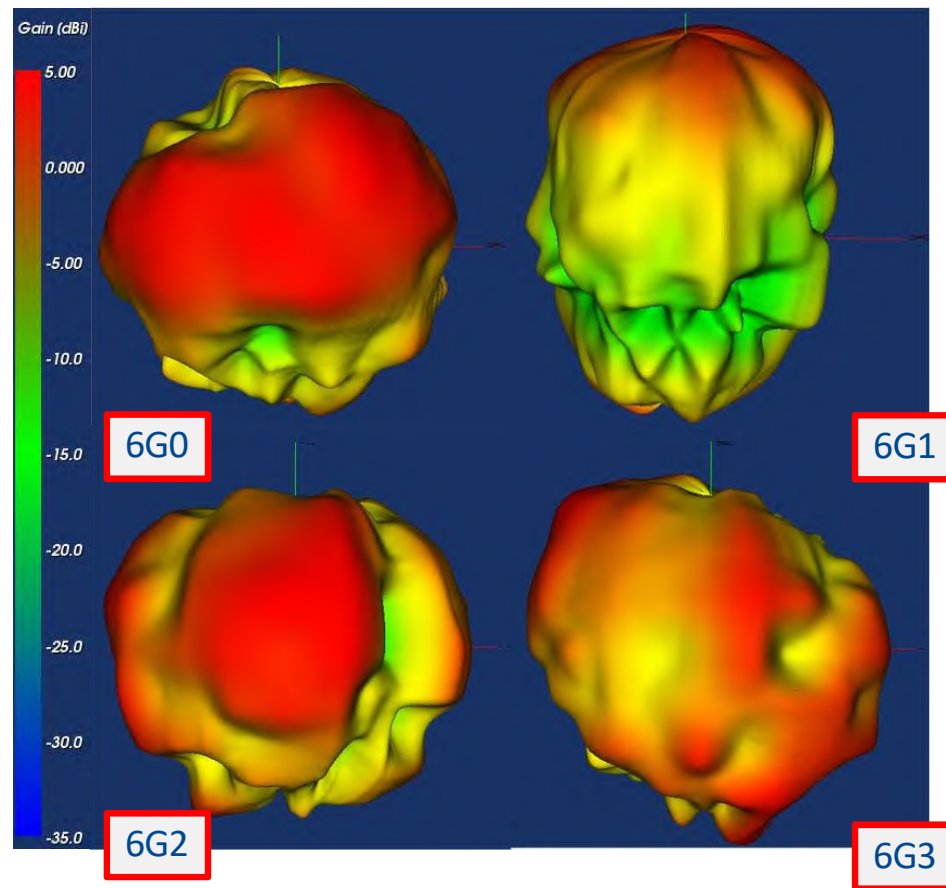
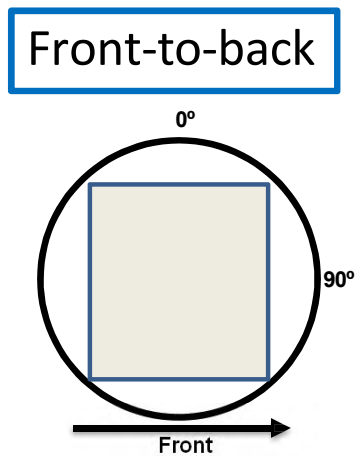
3D Gain Plot-6 GHz Antennas-5.925GHz



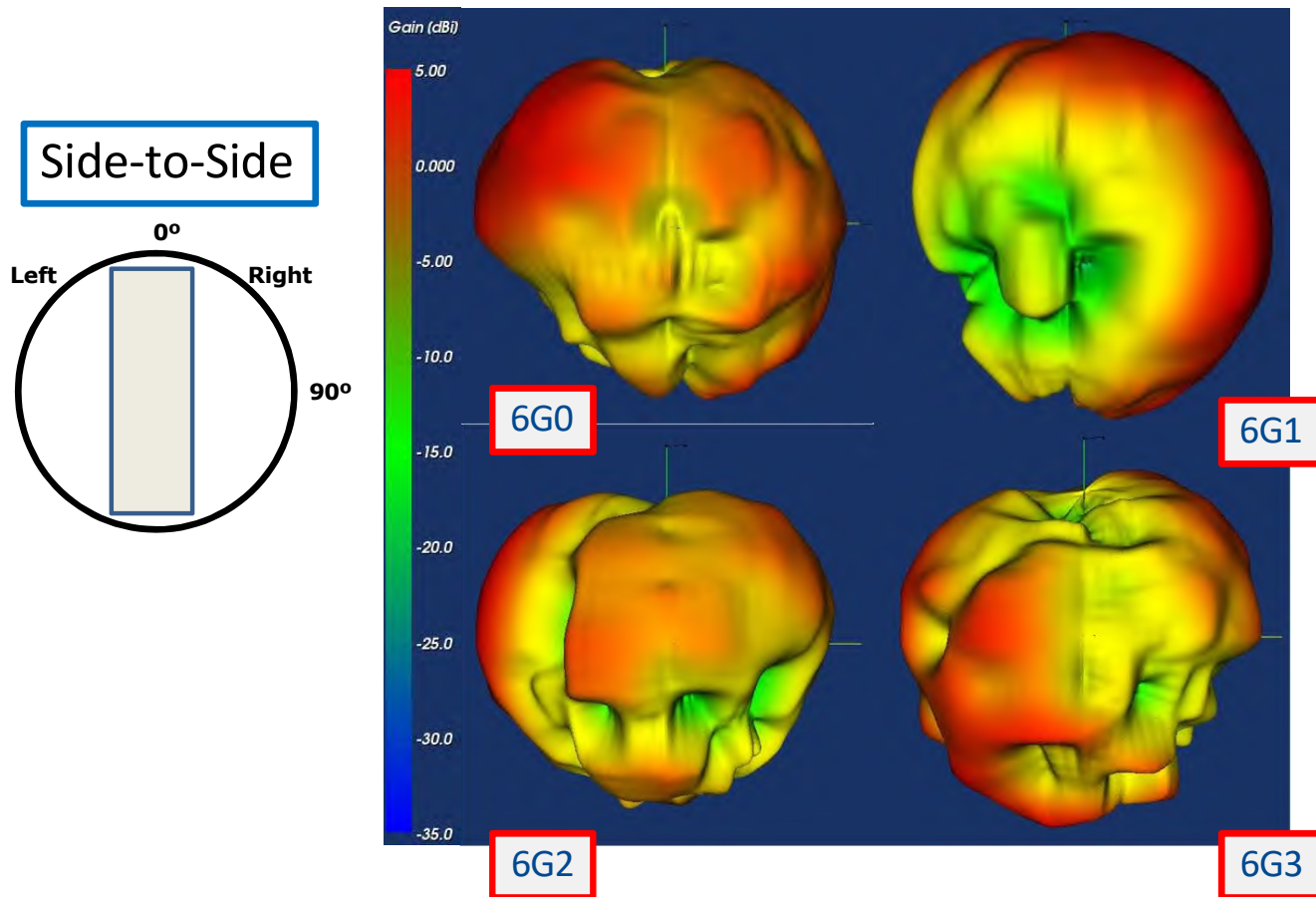
3D Gain Plot-6 GHz Antennas-6.525GHz



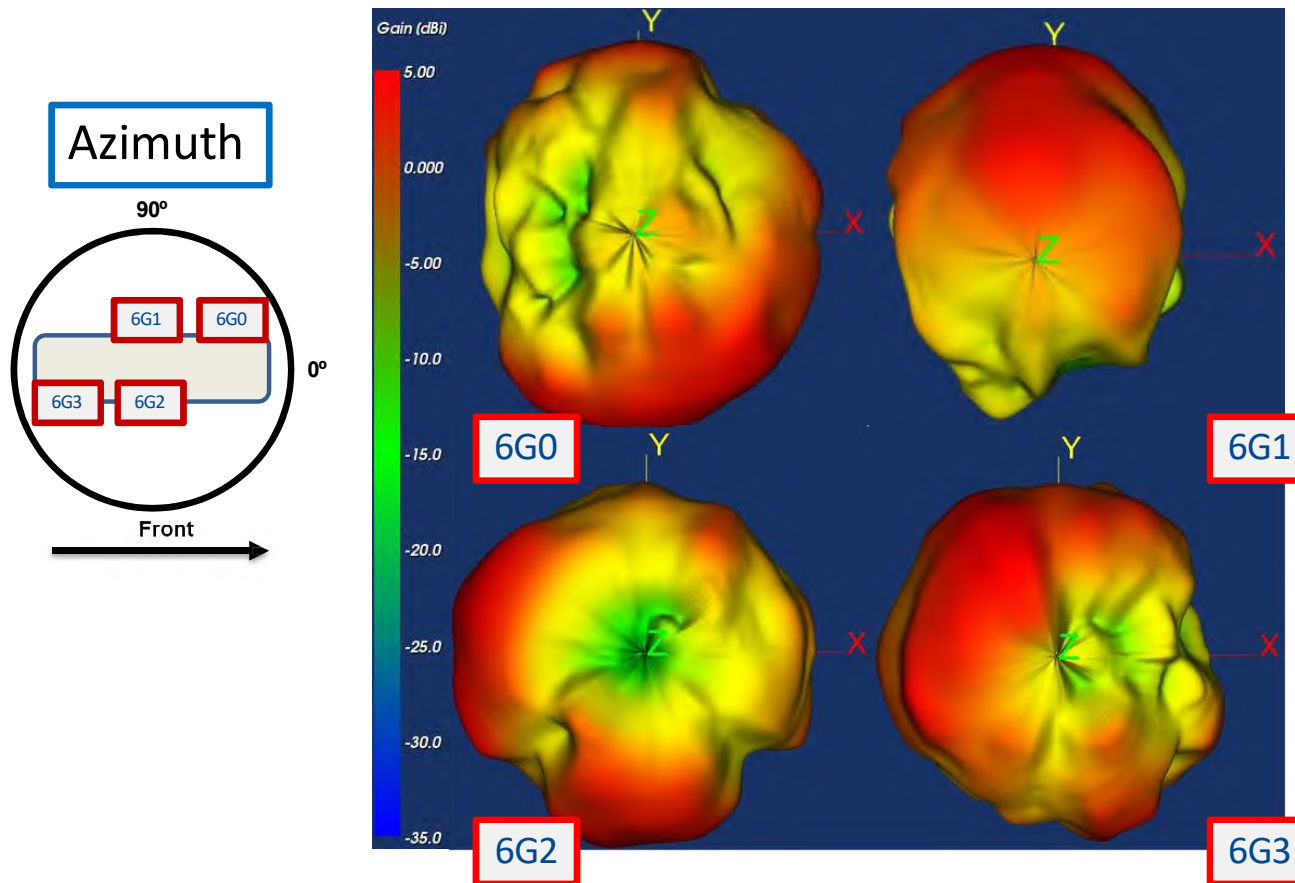
3D Gain Plot-6 GHz Antennas-6.525GHz



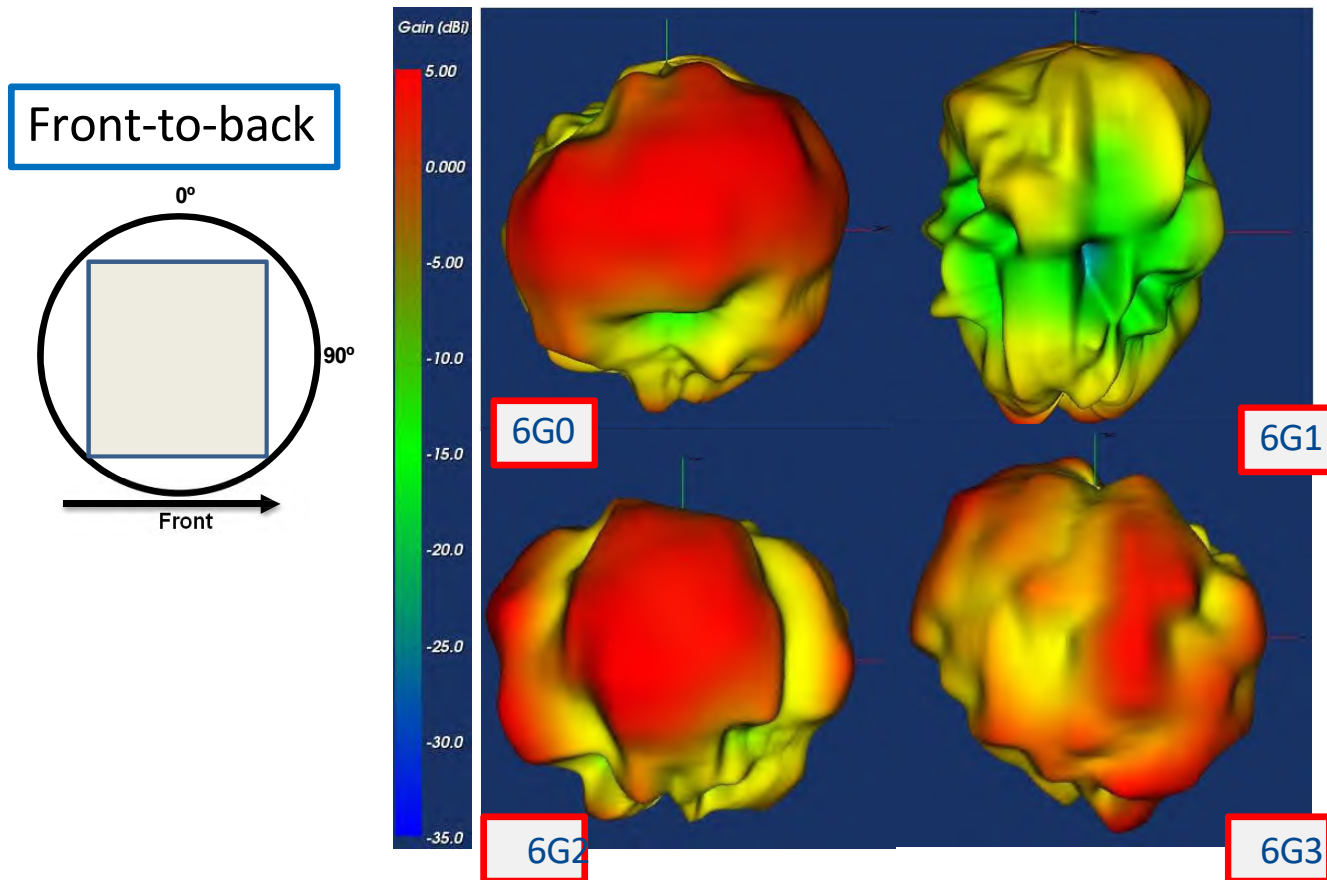
3D Gain Plot-6 GHz Antennas-6.525GHz



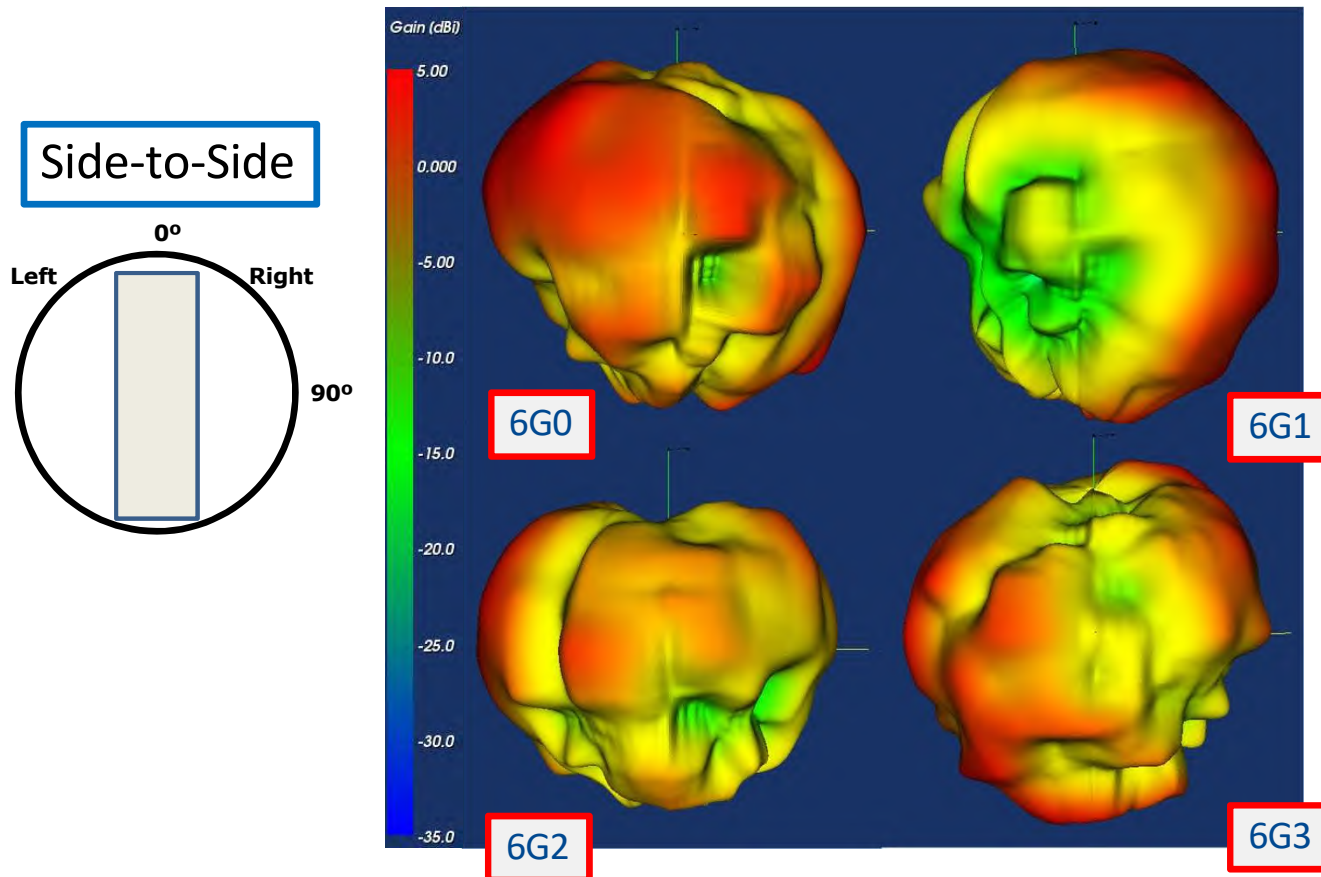
3D Gain Plot-6 GHz Antennas-7.125GHz



3D Gain Plot-6 GHz Antennas-7.125GHz



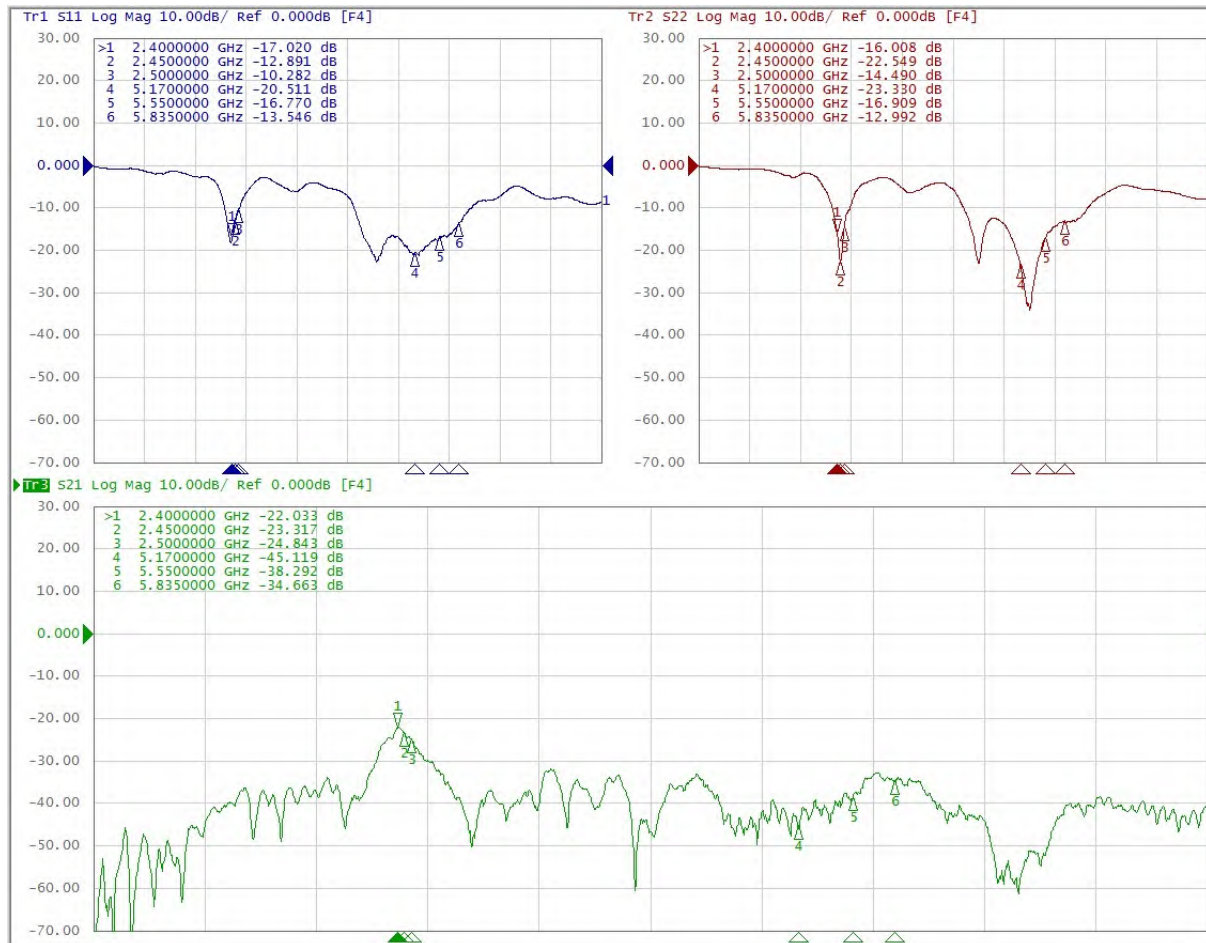
3D Gain Plot-6 GHz Antennas-7.125GHz



Return Loss and Isolation of the DB Antennas

Port 1= DB0

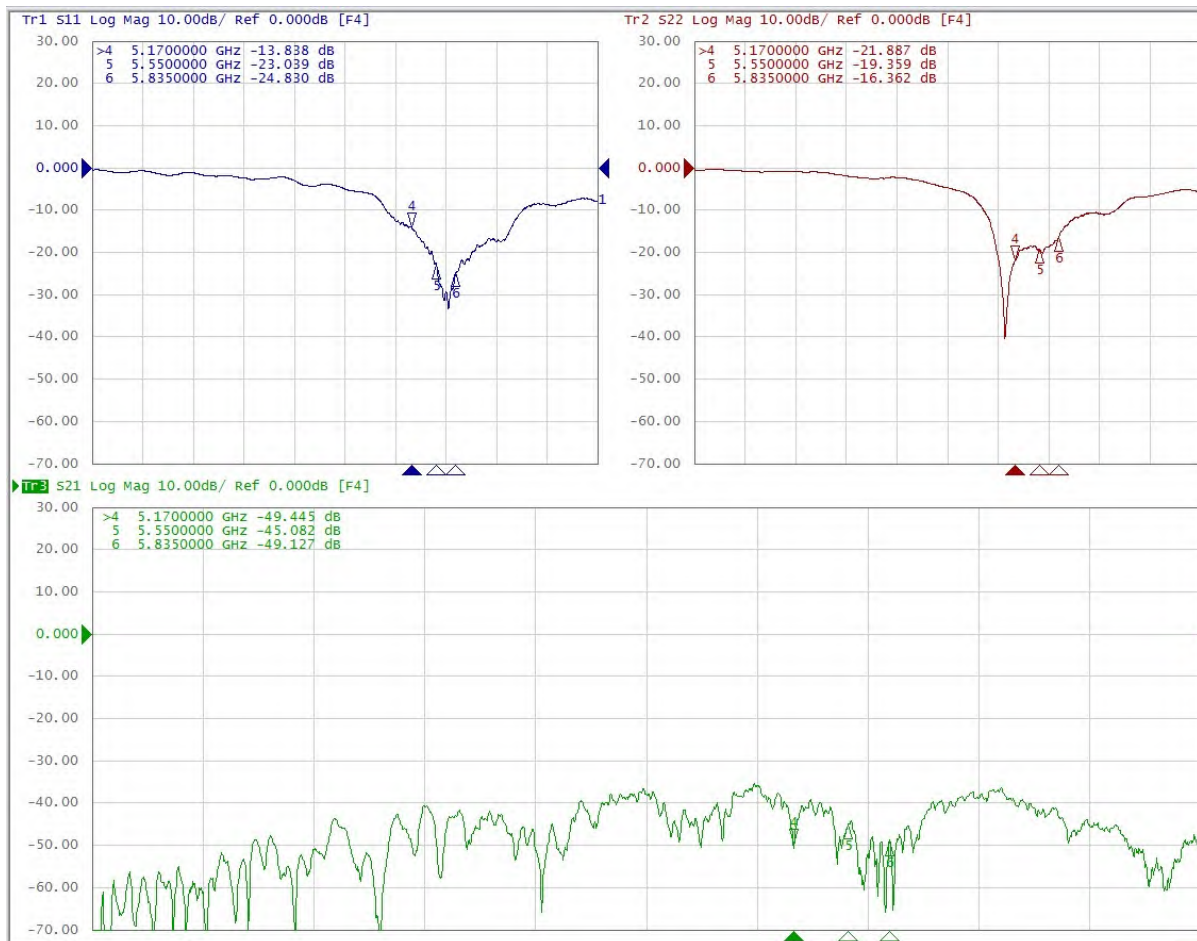
Port 2= DB1



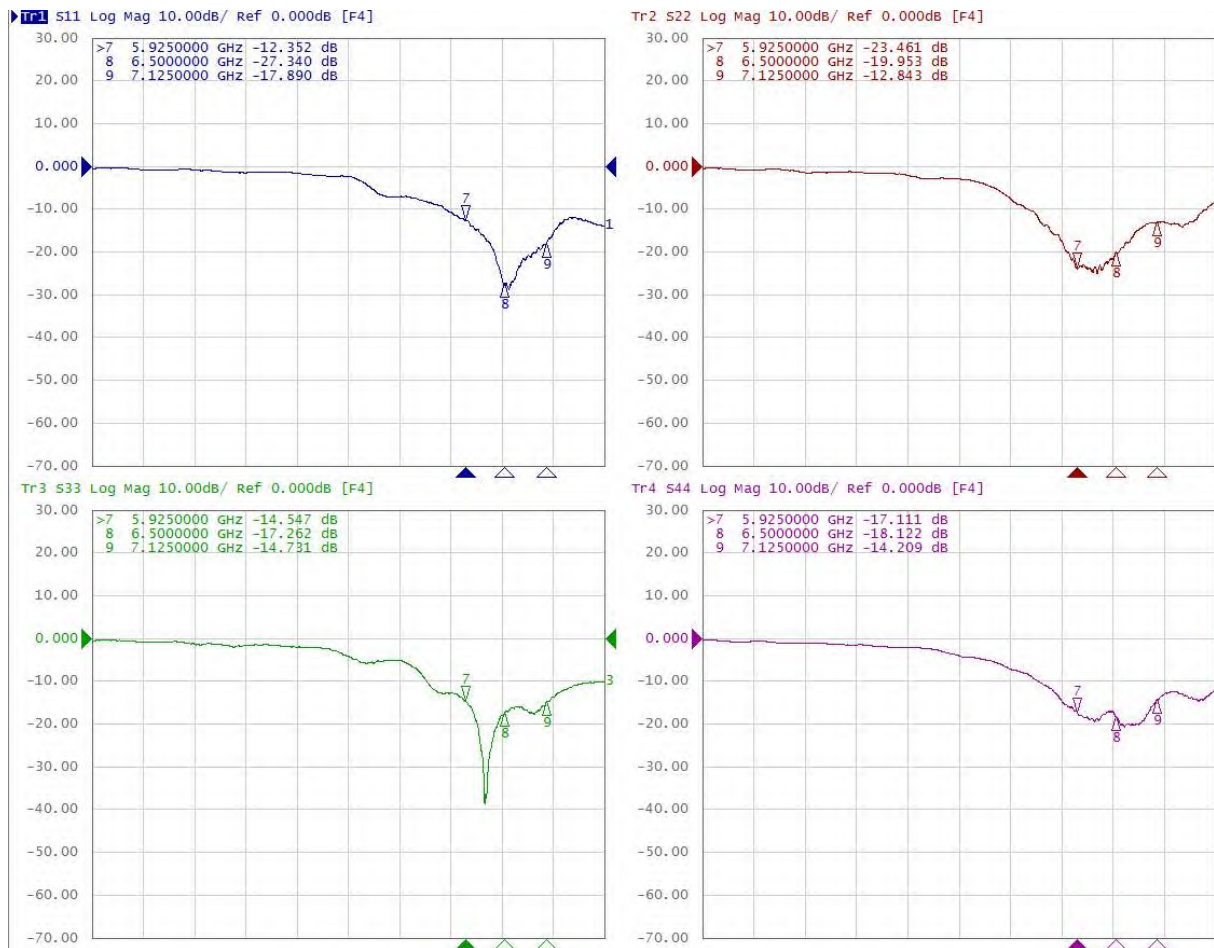
Return Loss and Isolation of the 5GHz Antennas

Port 1= 5G2

Port 2= 5G3



Return Loss of the 6GHz Antennas



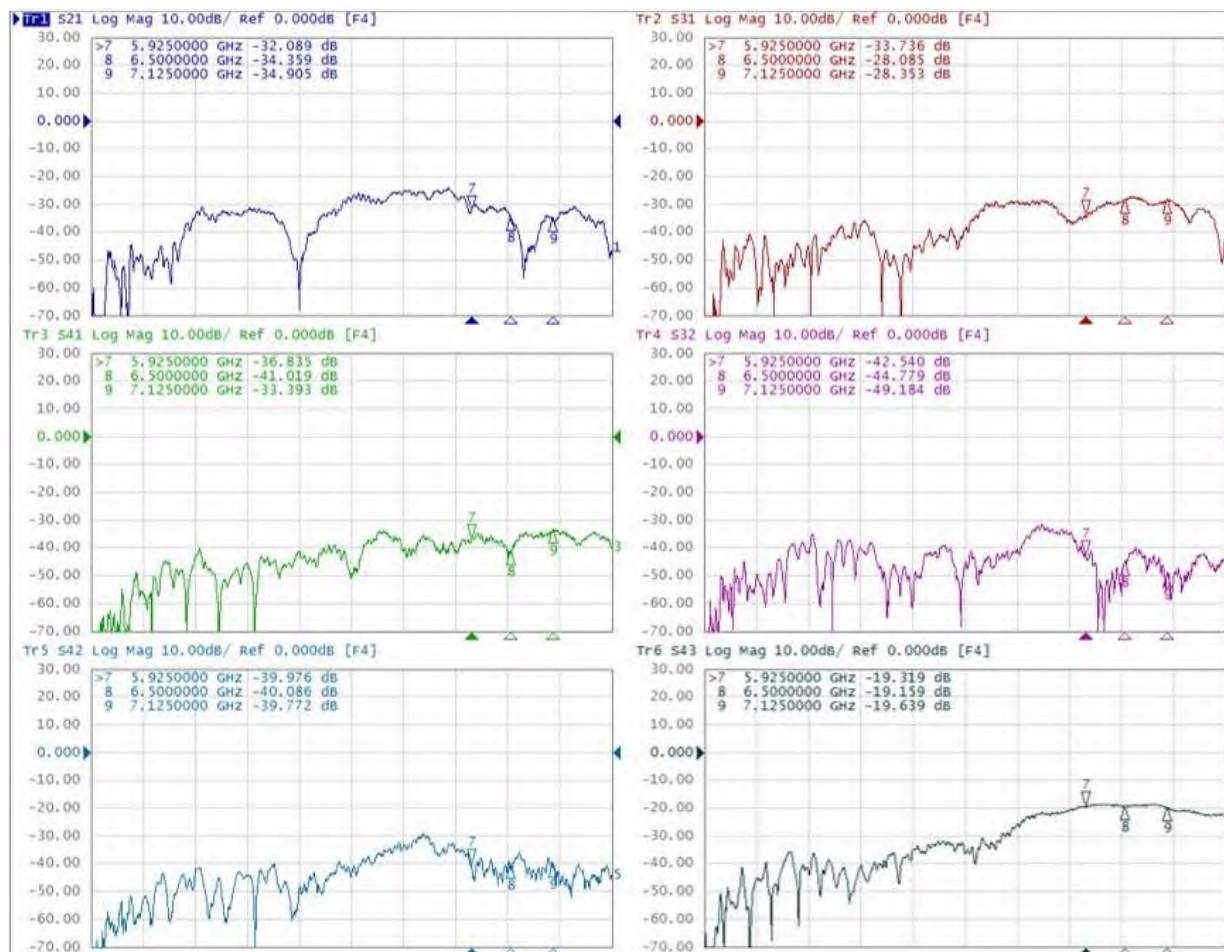
Port 1= 6G0

Port 2= 6G1

Port 3= 6G2

Port 4= 6G3

Isolation of the 6GHz Antennas



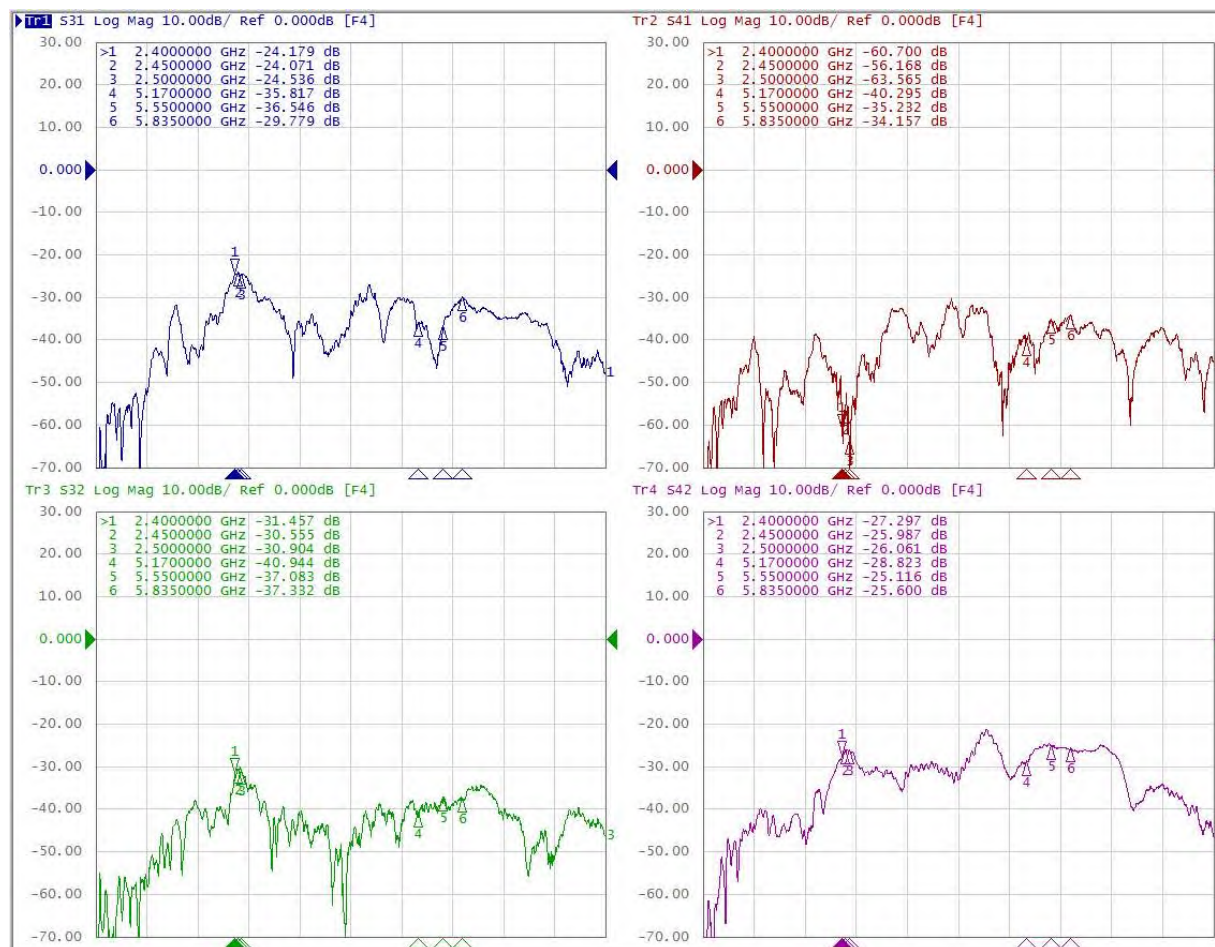
Port 1= 6G0

Port 2= 6G1

Port 3= 6G2

Port 4= 6G3

Isolation between DB and 5GHz Antennas



Port 1= DB0

Port 2= DB1

Port 3= 5G2

Port 4= 5G3

Isolation between DB and 6GHz Antennas

Tr1 S31 Log Mag 10.00dB/ Ref 0.000dB [F4]



Tr3 S32 Log Mag 10.00dB/ Ref 0.000dB [F4]



Tr2 S41 Log Mag 10.00dB/ Ref 0.000dB [F4]



Tr4 S42 Log Mag 10.00dB/ Ref 0.000dB [F4]



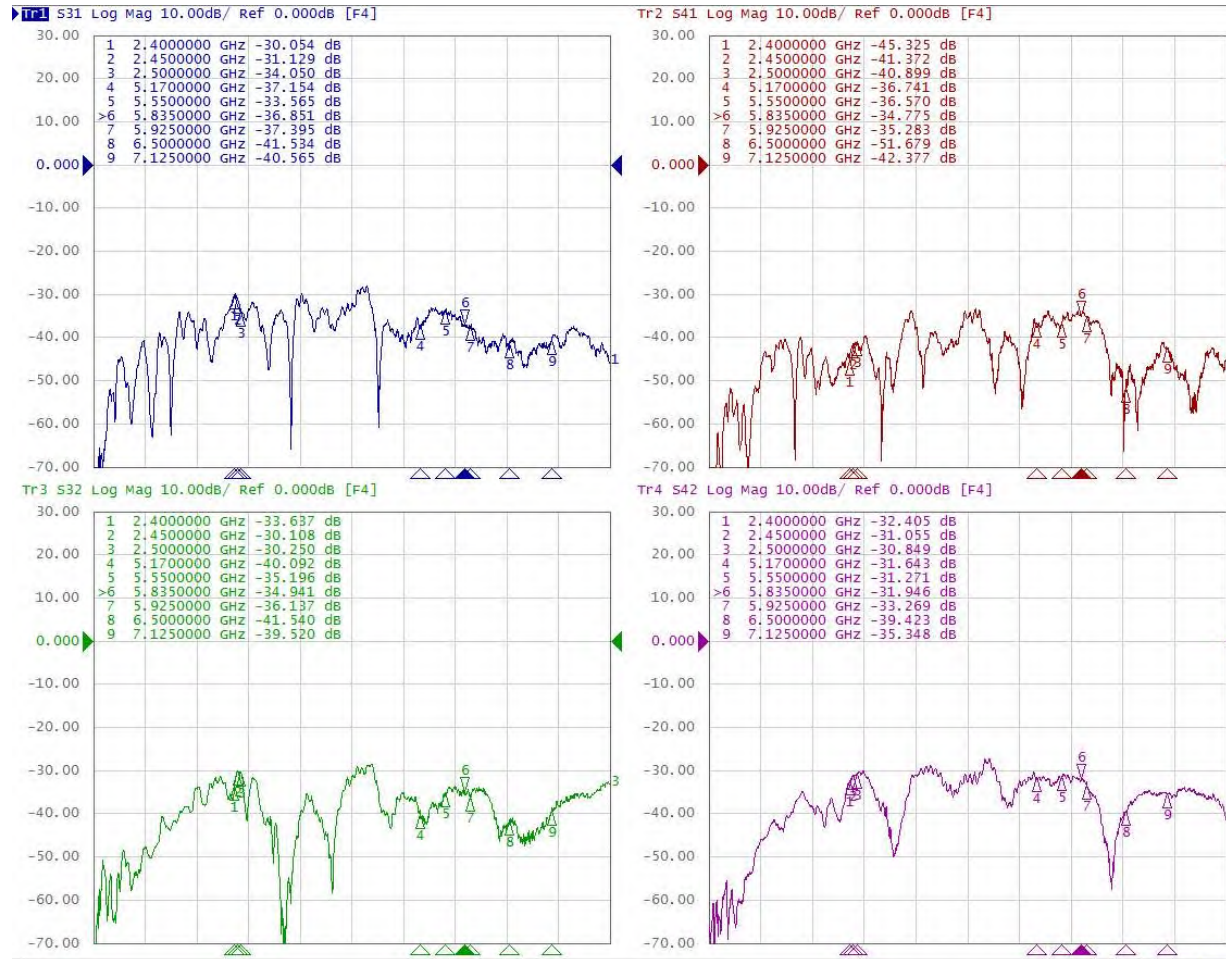
Port 1= DB0

Port 2= DB1

Port 3= 6G0

Port 4= 6G1

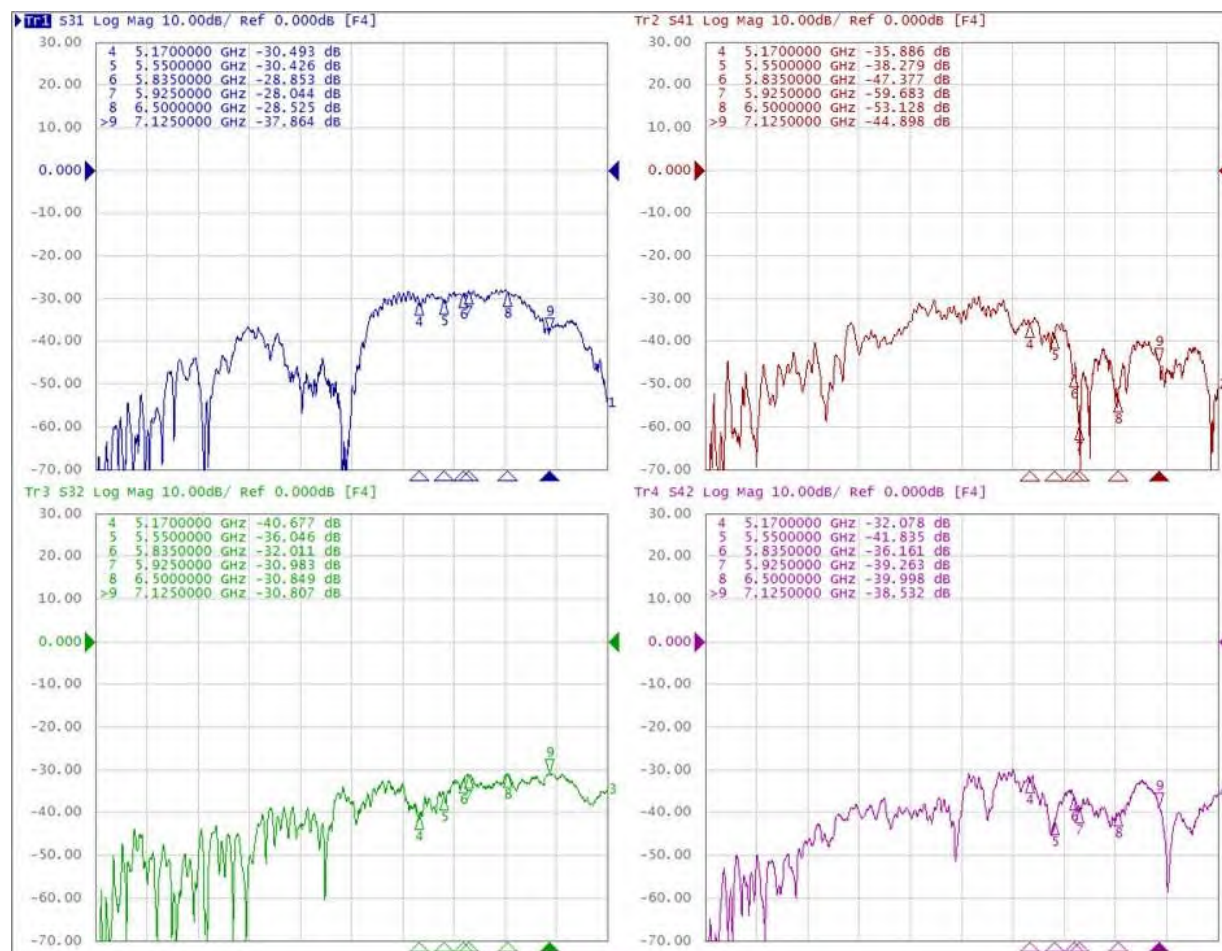
Isolation between DB and 6GHz Antennas



Port 1= DB0 Port 2= DB1

Port 3= 6G2 Port 4= 6G3

Isolation between 5GHz and 6GHz Antennas



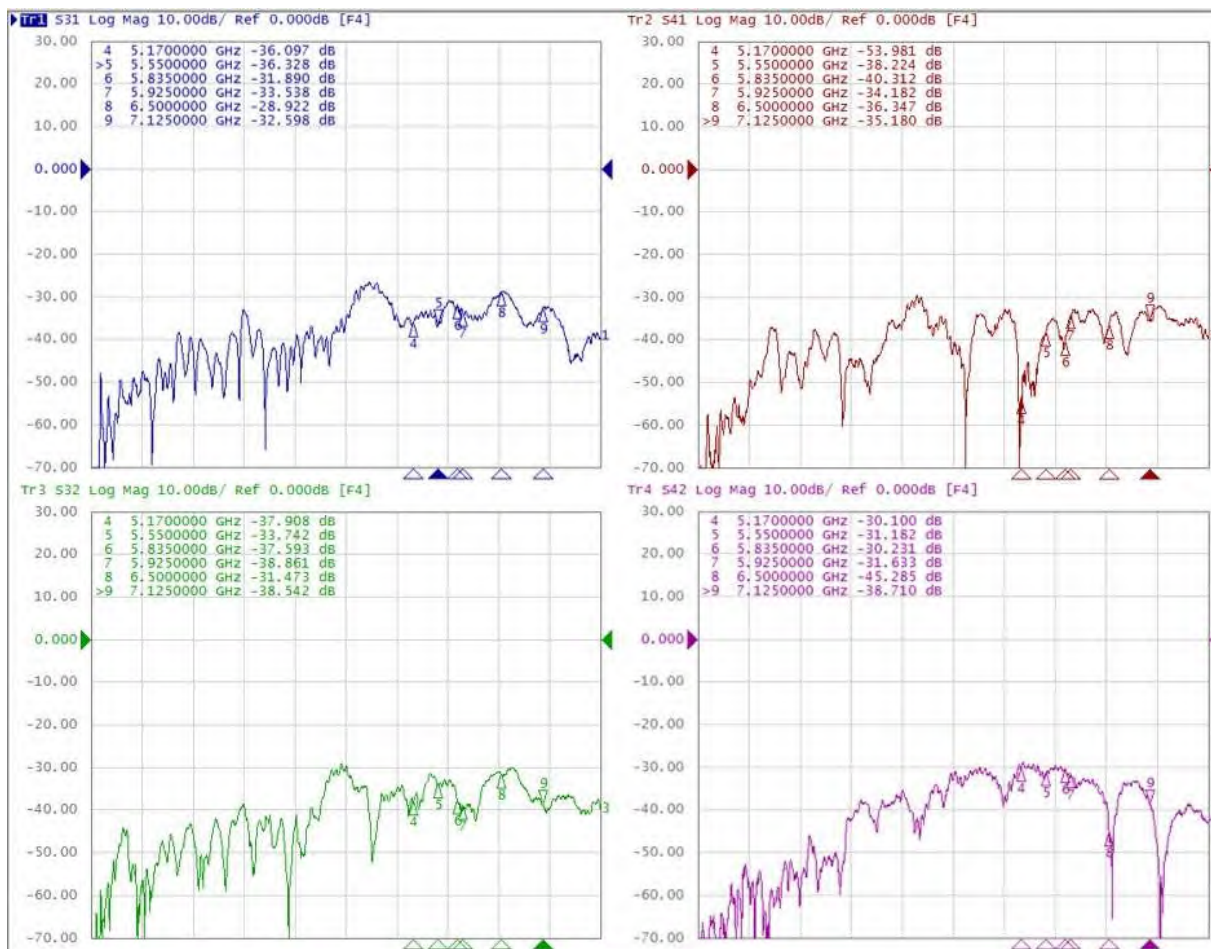
Port 1= 5G2

Port 2= 5G3

Port 3= 6G0

Port 4= 6G1

Isolation between 5GHz and 6GHz Antennas



Port 1= 5G2

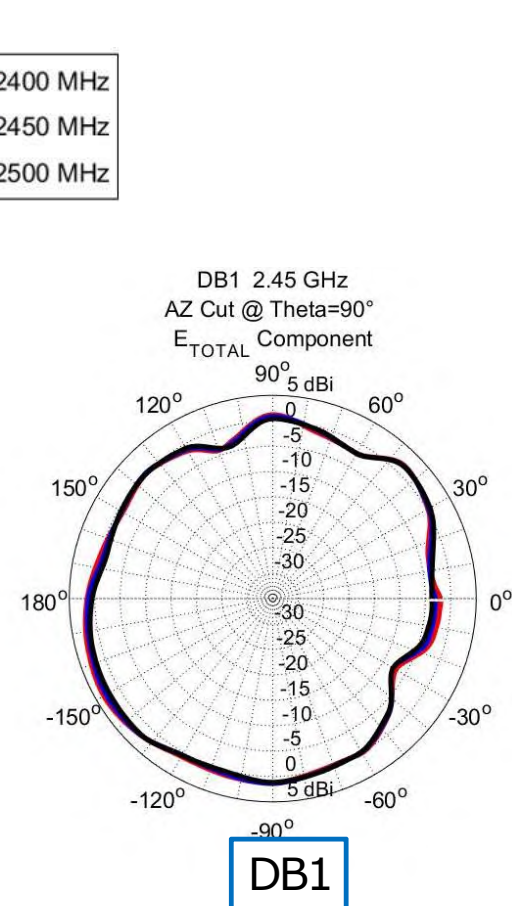
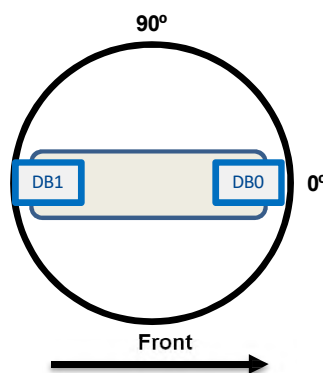
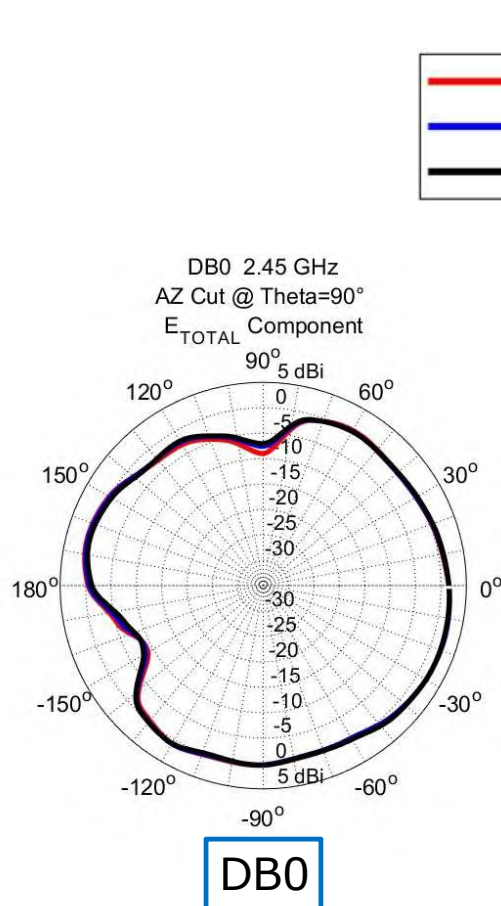
Port 2= 5G3

Port 3= 6G2

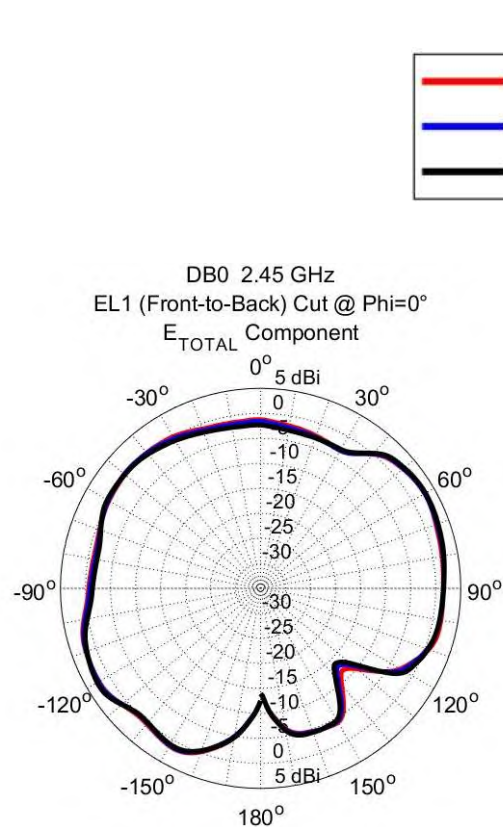
Port 4= 6G3

Azimuth Cut - Power Sum

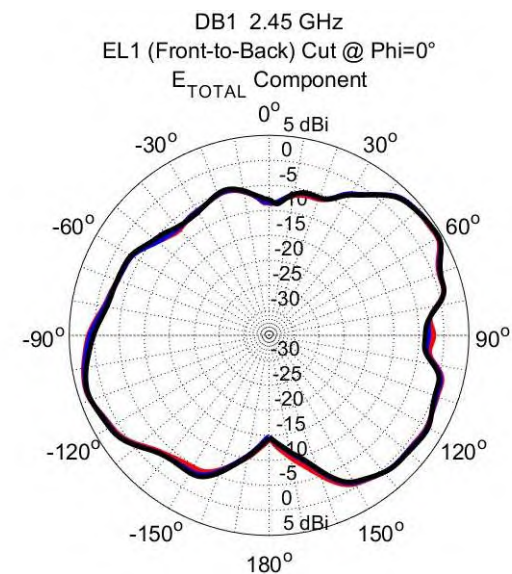
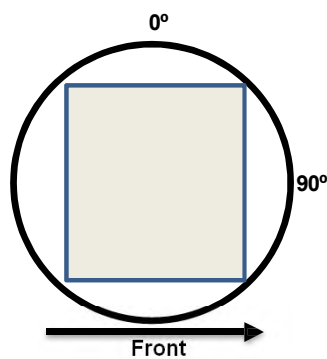
DB 2.45 GHz Antennas



Elevation (Front to Back) Cut - Power Sum DB 2.45 GHz Antennas

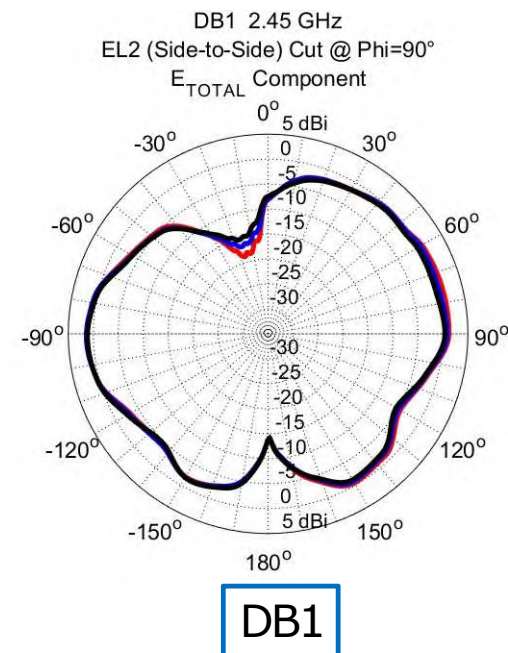
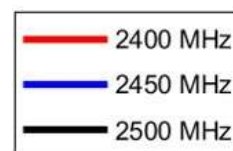
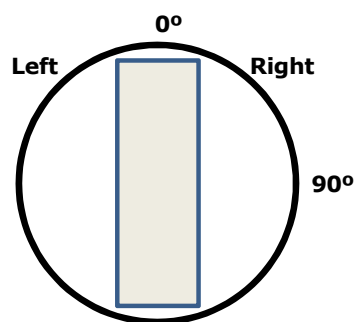
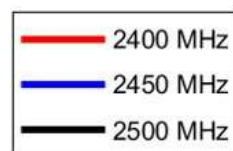
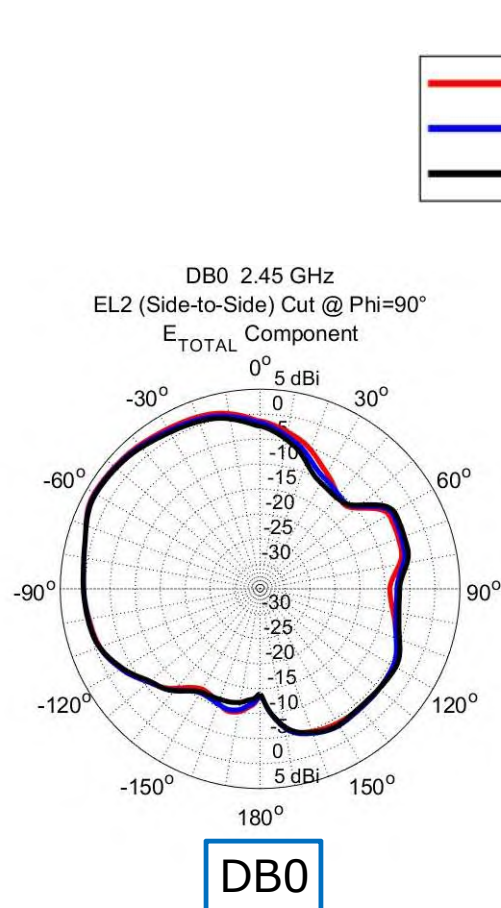


DB0

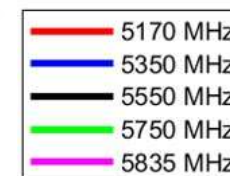
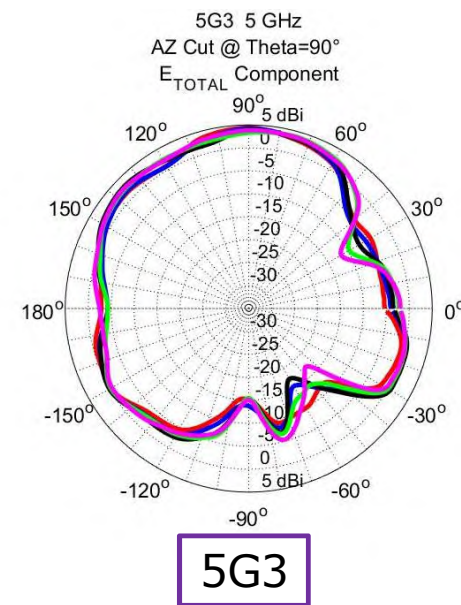
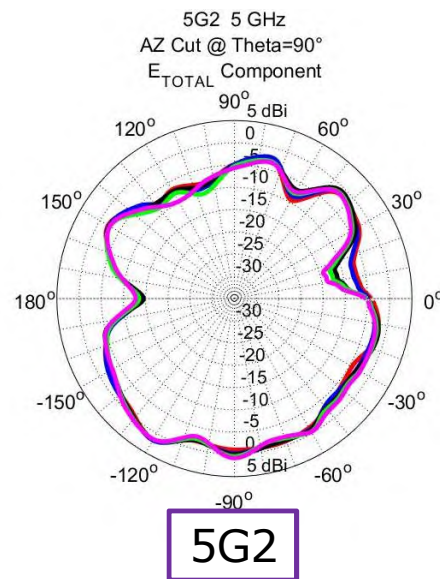
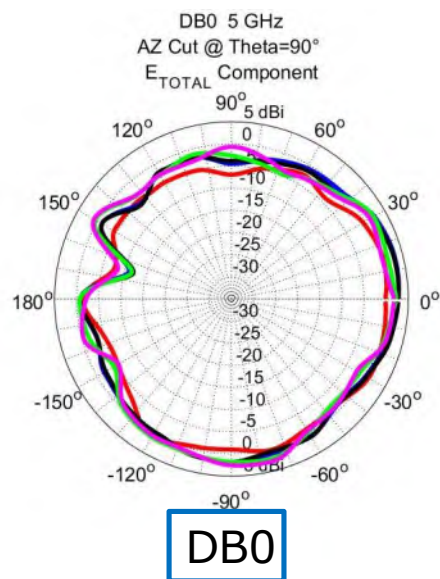
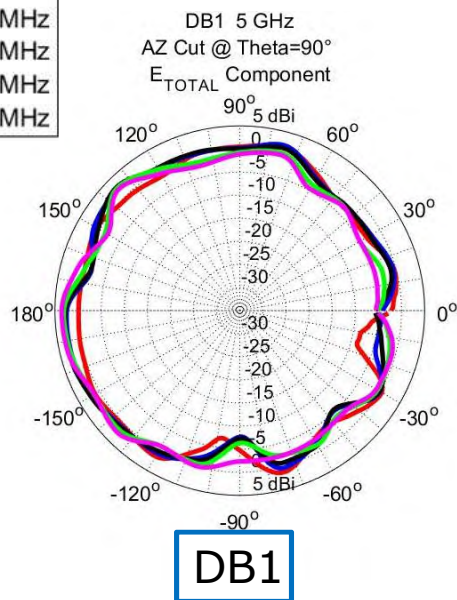
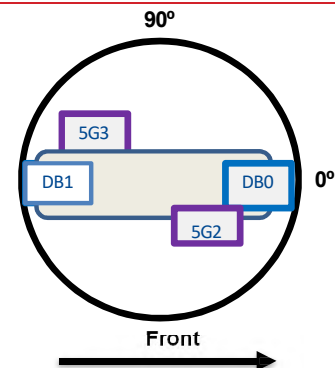


DB1

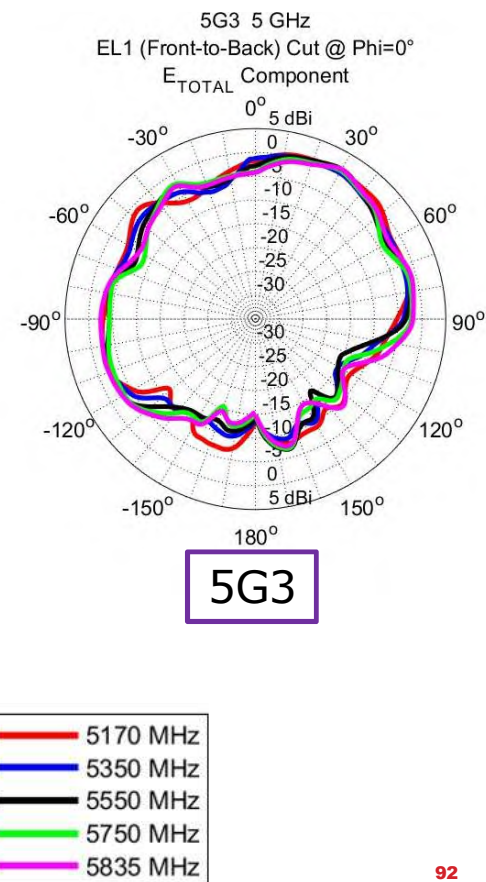
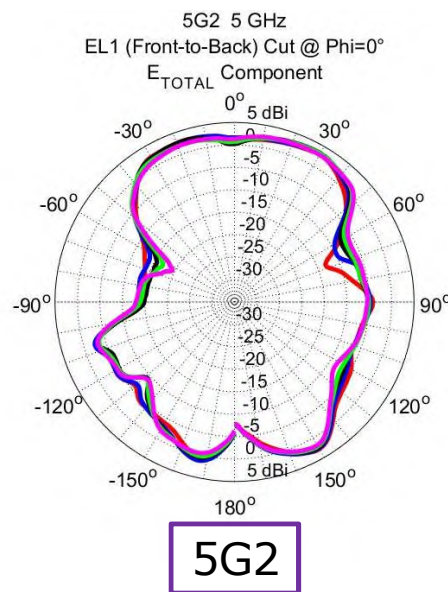
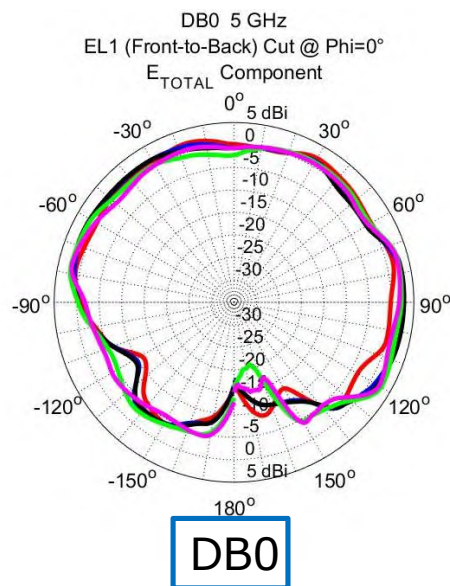
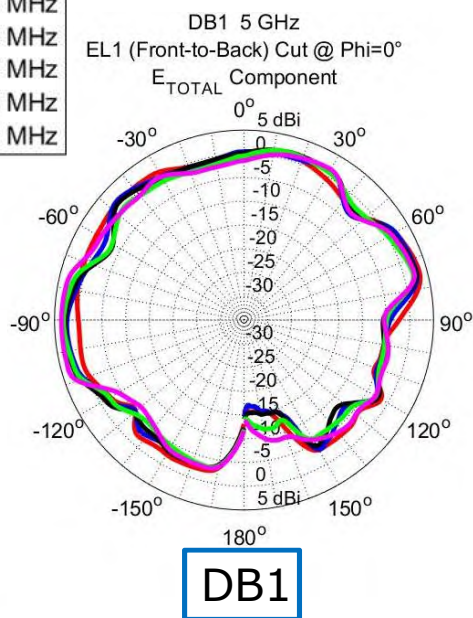
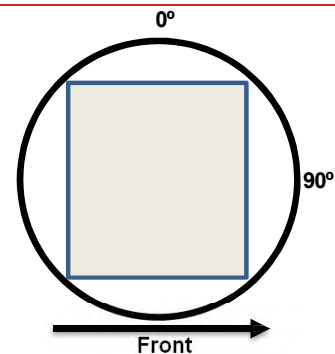
Elevation (Side to Side) Cut - Power Sum DB 2.45 GHz Antennas



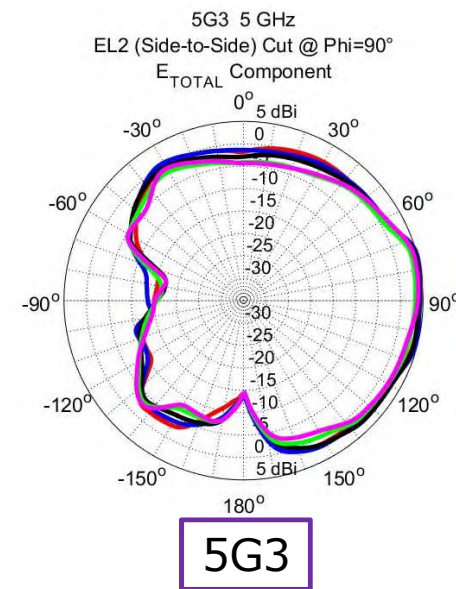
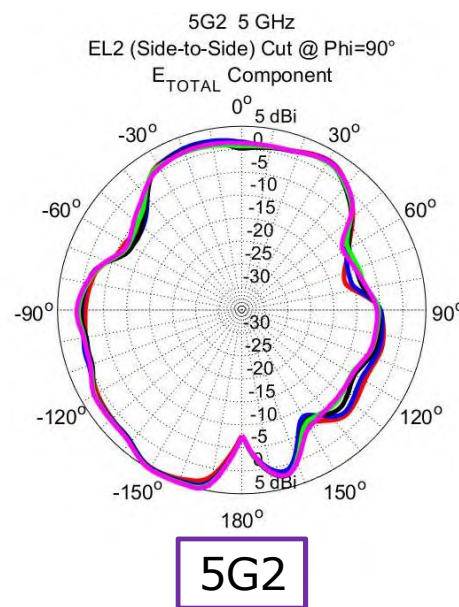
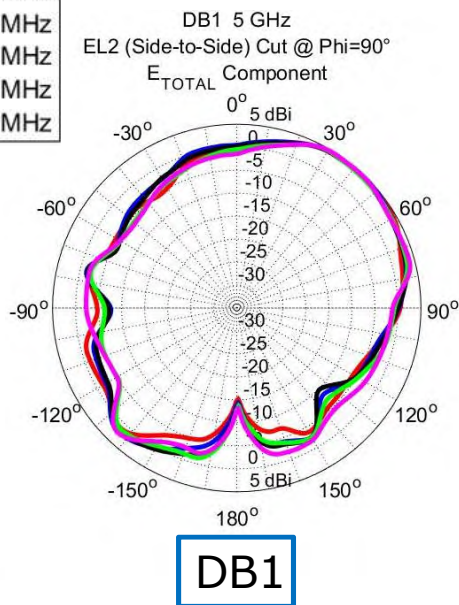
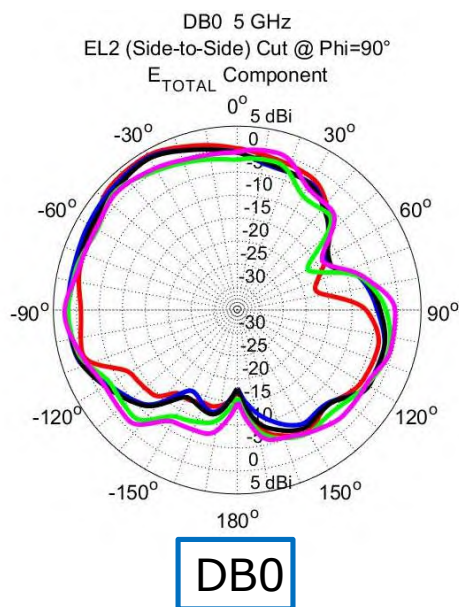
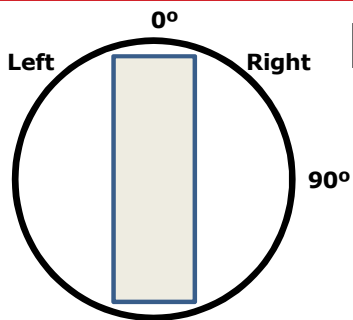
Azimuth Cut - Power Sum 5 GHz Antennas



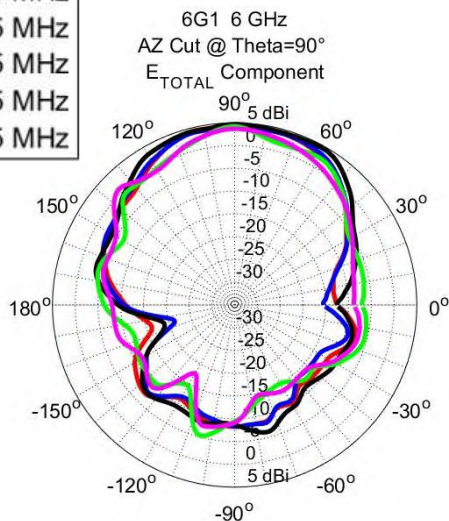
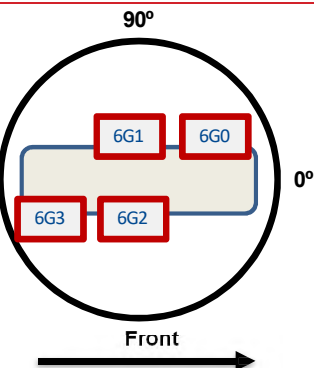
Elevation (Front to Back) Cut - Power Sum 5 GHz Antennas



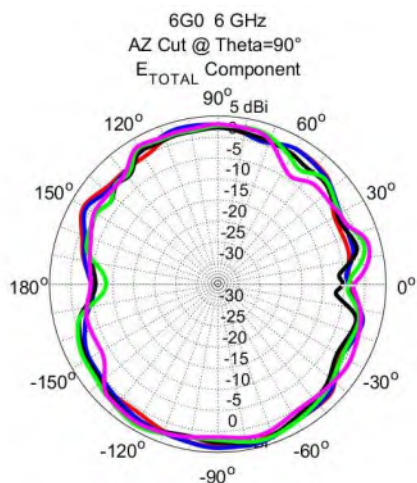
Elevation (Side to Side) Cut - Power Sum 5 GHz Antennas



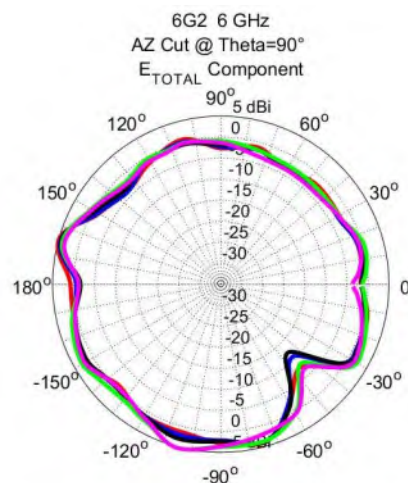
Azimuth Cut - Power Sum 6 GHz Antennas



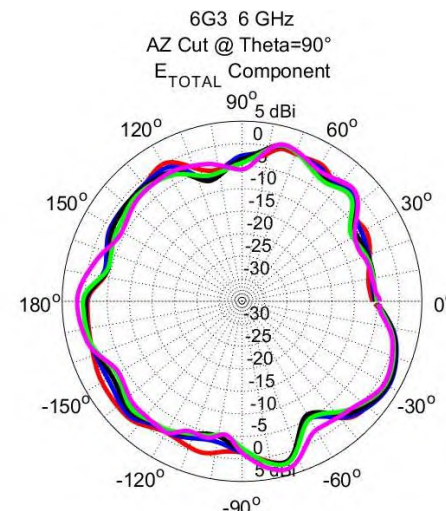
6G1



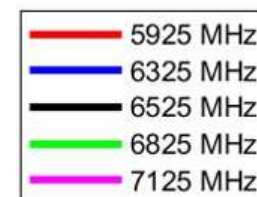
6G0



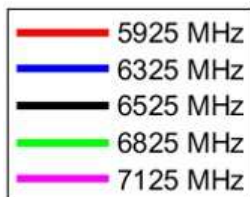
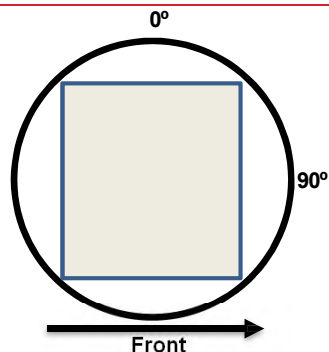
6G2



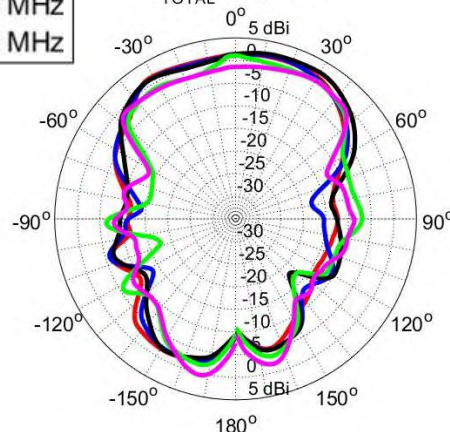
6G3



Elevation (Front to Back) Cut - Power Sum 6 GHz Antennas

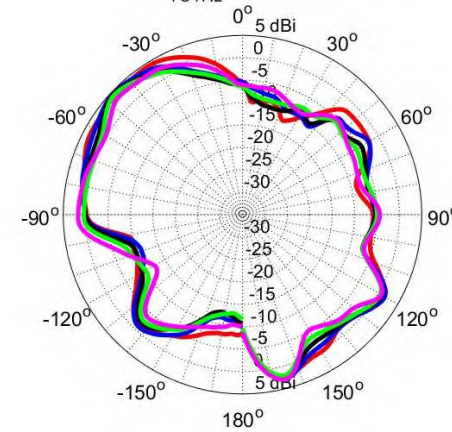


6G1 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component



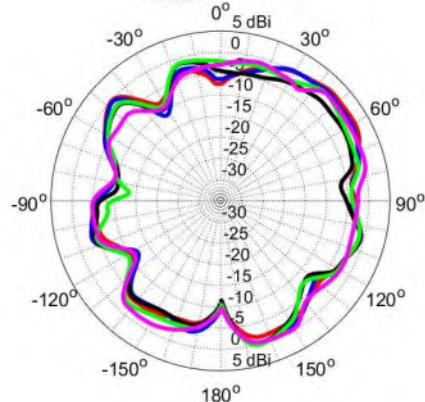
6G1

6G3 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component



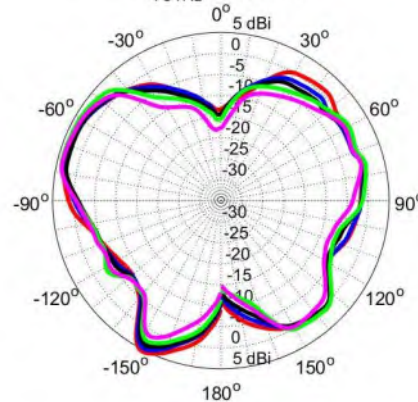
6G3

6G0 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component

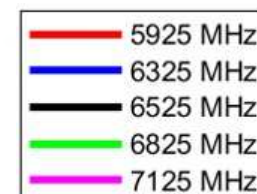


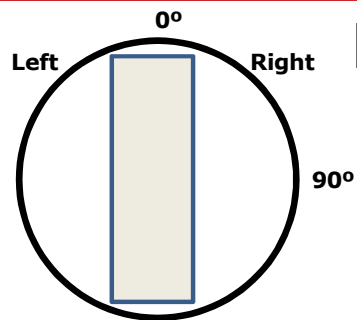
6G0

6G2 6 GHz
EL1 (Front-to-Back) Cut @ $\Phi=0^\circ$
 E_{TOTAL} Component

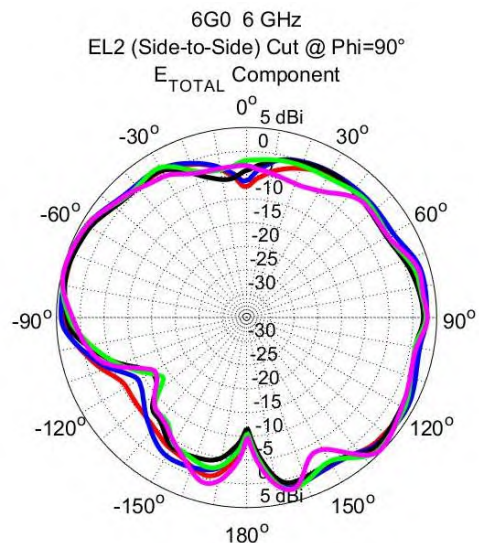


6G2

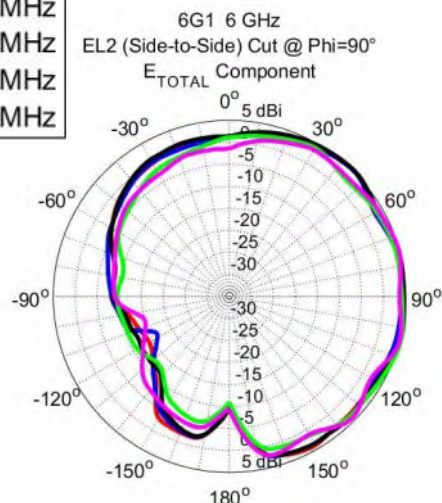




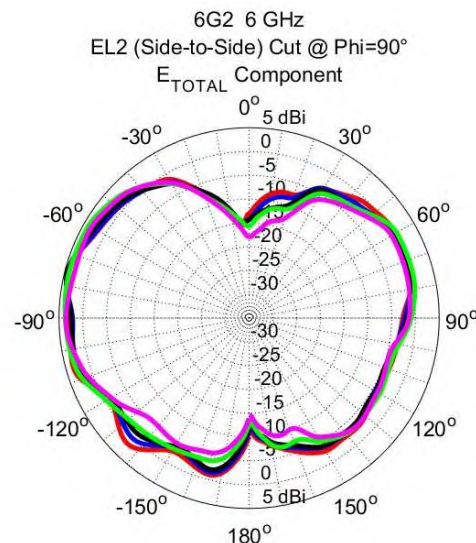
Elevation (Side to Side) Cut - Power Sum 6 GHz Antennas



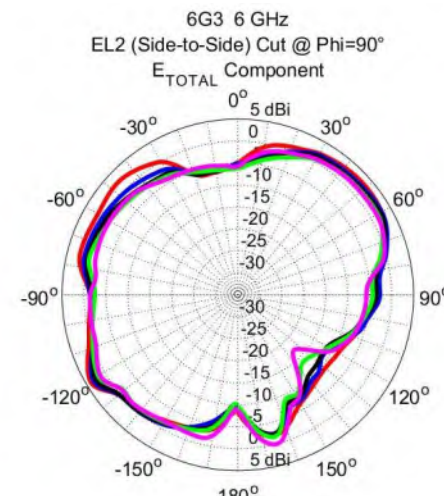
6G0



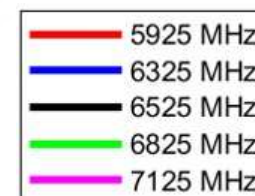
6G1



6G2



6G3



Our Contact

WWW.GALTRONICS.COM

Social Media



Contact

 info@galtronics.com

 + 1-480-496-5100

 8930 S. Beck Avenue, Suite # 103
Tempe, Arizona 85284-2891, USA

Corporate Headquarters

Baylin Technologies Inc.,
60 Columbia Way
Suite 205
Markham, ON L3R 0C9 Canada

USA Design Center

Galtronics USA Inc.
8930 South Beck Avenue
Suite #103
Tempe, AZ 85284 USA
Tel: +1-480-496-5100

Suzhou, China Design Center

Galtronics Electronics (Wuxi) Co.
No.28, Jinxing Road, Metallurgical
Industrial Park(Jinfeng Town),
Zhangjiagang City, Jiangsu, China

Ottawa, Canada Design Center

Galtronics Canada Inc.
200 Terence Mathews Crescent,
Unit A
Kanata, ON K2M 2C6 Canada

China Factory

Galtronics Electronics (Wuxi) Co.
No. 1, Xishi Road,
Wuxi New District
Jiangsu Province 214028, China
Tel: +86-510-8866-5500