

GALTRONICS

WHEN CONNECTIONS COUNT



CIG WF-810E Antenna Performance Report

Galtronics Project: 7647A

Prepared by Lean *Lean Ni*
April 24 , 2023

INTRODUCTION

- » Galtronics has provided a solution for CIG WF810E Tri-band mesh router.
- » There are 8 antennas in this solution:
- » One on-board 2G0 antenna: 2.4GHz-2.5GHz
- » One on-board BT antenna: 2.4GHz-2.5GHz
- » Two 6G band antennas designated by 6G0 and 6G1: 5925MHz-7125MHz.
- » 6G0 is on-board. 6G1 antenna is cabled.
- » Three 5G Single band antennas designated by 5G0, 5G1 and 5G2: 5150MHz-5895MHz.
- » 5G0 and 5G2 antennas are on-board. 5G1 antenna is cabled.
- » One cabled metal DB antenna.

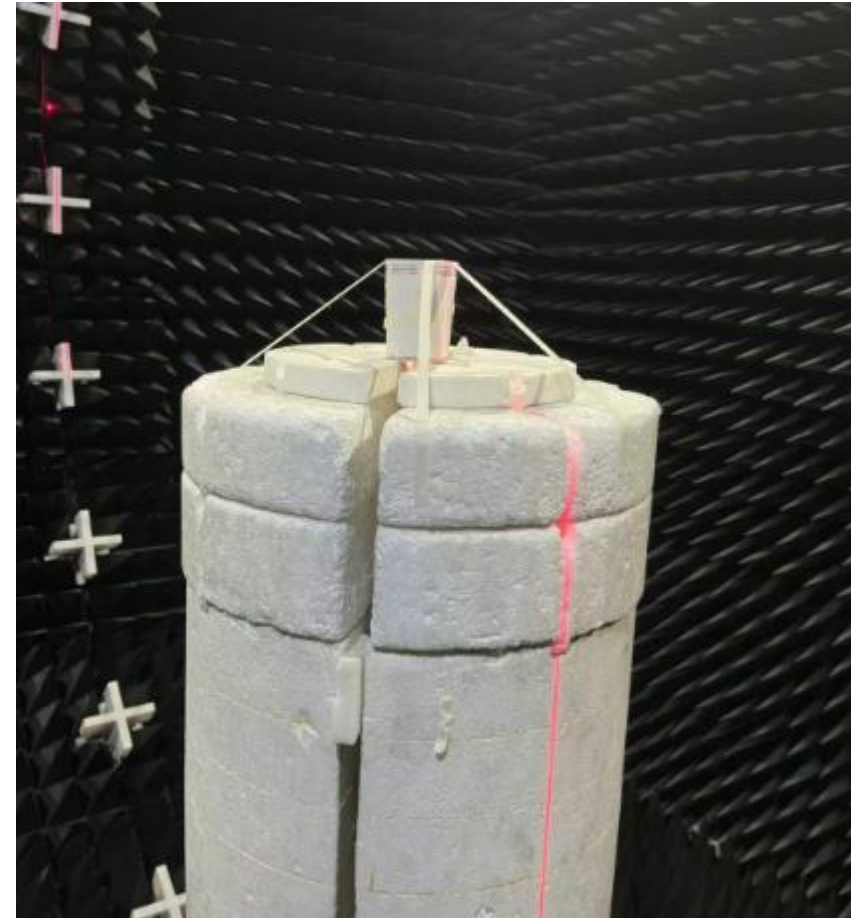
TEST INFORMATION

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date
ENA Network Analyzer	KEYSIGHT	E5071C	MY46730234	1 Year	2023/7/27
RF Switch Box	HWA-TECH	Z9916A-NO1	N/A	N/A	N/A
SP24 Chamber	HWA-TECH	555	N/A	1 Year	2023/12/1
Horn Antenna	HWA-TECH	TN3112	N/A	1 Year	2023/12/1

TEST CONFIGURATION



Test instrument



Chamber

Test Method

The “great circle” cut method, whereby the Measurement Antenna remains fixed and the EUT is rotated about two axes in sequential order. The radiated RF performance of the Equipment Under Test (EUT) is measured by sampling the radiated transmit power of the mobile at various locations surrounding the device. A three-dimensional characterization of the 'transmit' performance of the EUT is pieced together by analyzing the data from the spatially distributed measurements.

Data points taken every 15 degrees in the theta and in the phi axes are deemed sufficient to fully characterize the EUT's Far-Field radiation pattern and total radiated power All of the measured power values will be integrated.

Test Condition	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	Lean.ni	20-24 / 45-60	10.24.2022~10.27.2022
Band (MHz)		Test Frequency (MHz)	
2400-2500		2400 / 2450 / 2500	
5150-5850		5150 / 5350/5500/5725/5825	
5925-7125		5925/6225/6325/6575/7125	
Testing Location			
Galtronics	Suzhou, China Design Center Galtronics Electronics (Wuxi) Co.		

Because the antennas are fixed in location within the device the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 15 degree steps of theta and phi for each antenna using the equations from KDB 662911 D01. The raw antenna data is located in the appendix of this report.

The correlated antenna gain was calculated using KDB 662911 D01, F(2)(d)(i). The uncorrelated antenna gain was calculated using KDB 662911 D01, F(2)(d)(ii).

The uncorrelated and correlated gains were calculated for each point in the spatial data, and the highest values reported.

Note :
KDB 662911 D01, F(2)(d)(i)

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

KDB 662911 D01, F(2)(d)(ii)

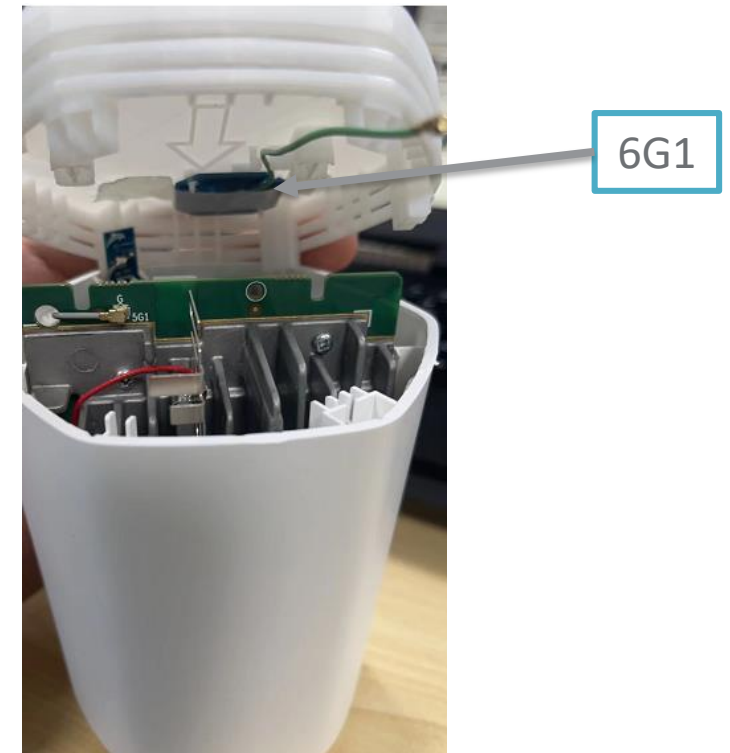
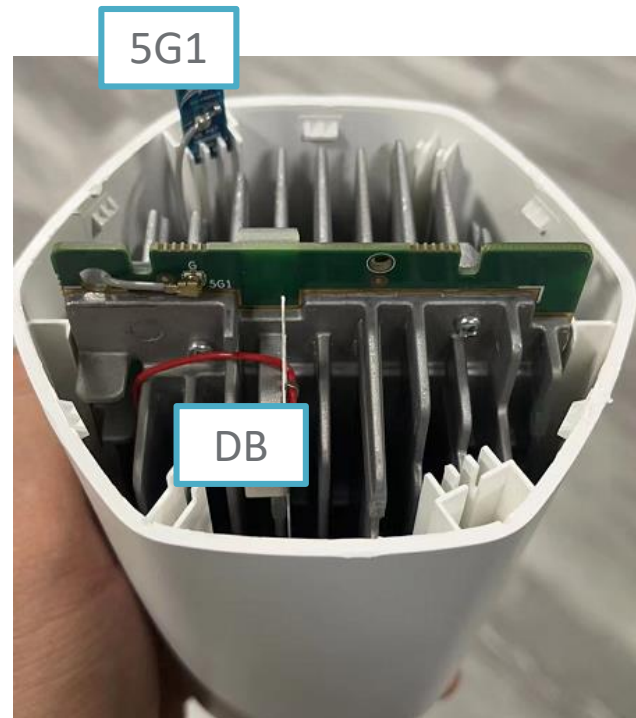
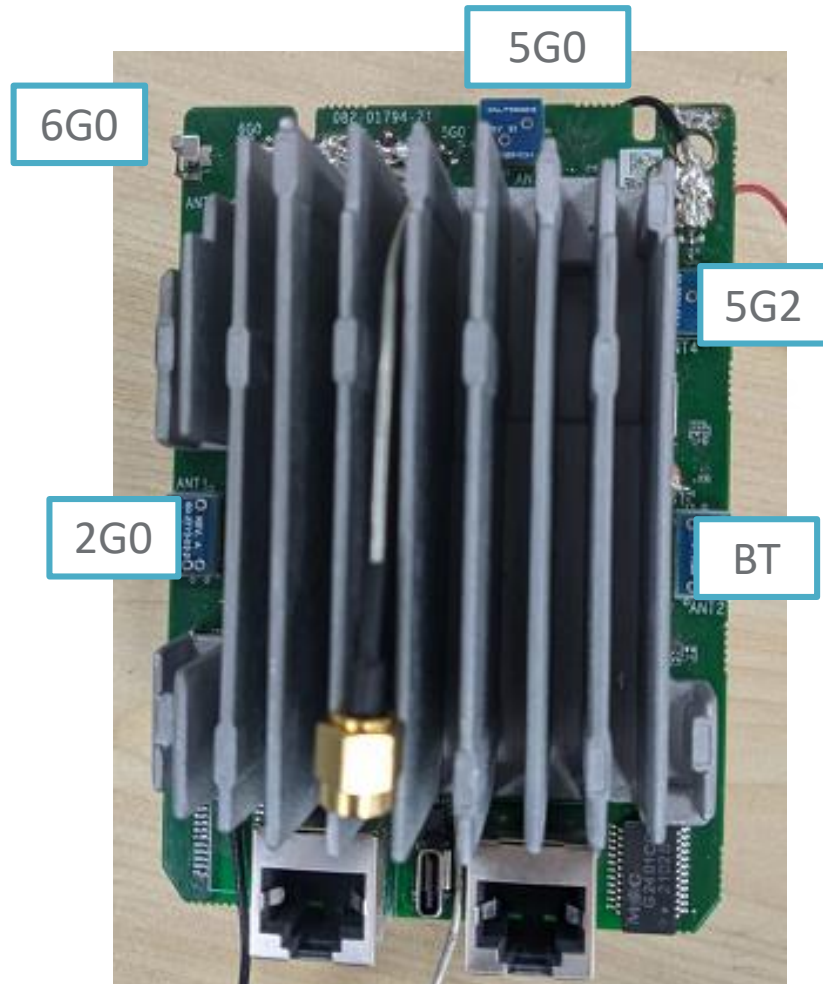
$$\text{Uncorrelated Gain} = 10 \log \left[\left(10^{\frac{G_1}{10}} + 10^{\frac{G_2}{10}} + \dots + 10^{\frac{G_n}{10}} \right) / N_{Ant.} \right] \text{ dBi}$$

$N_{Ant.}$: Number of antenna
 G_n : Gain of antenna

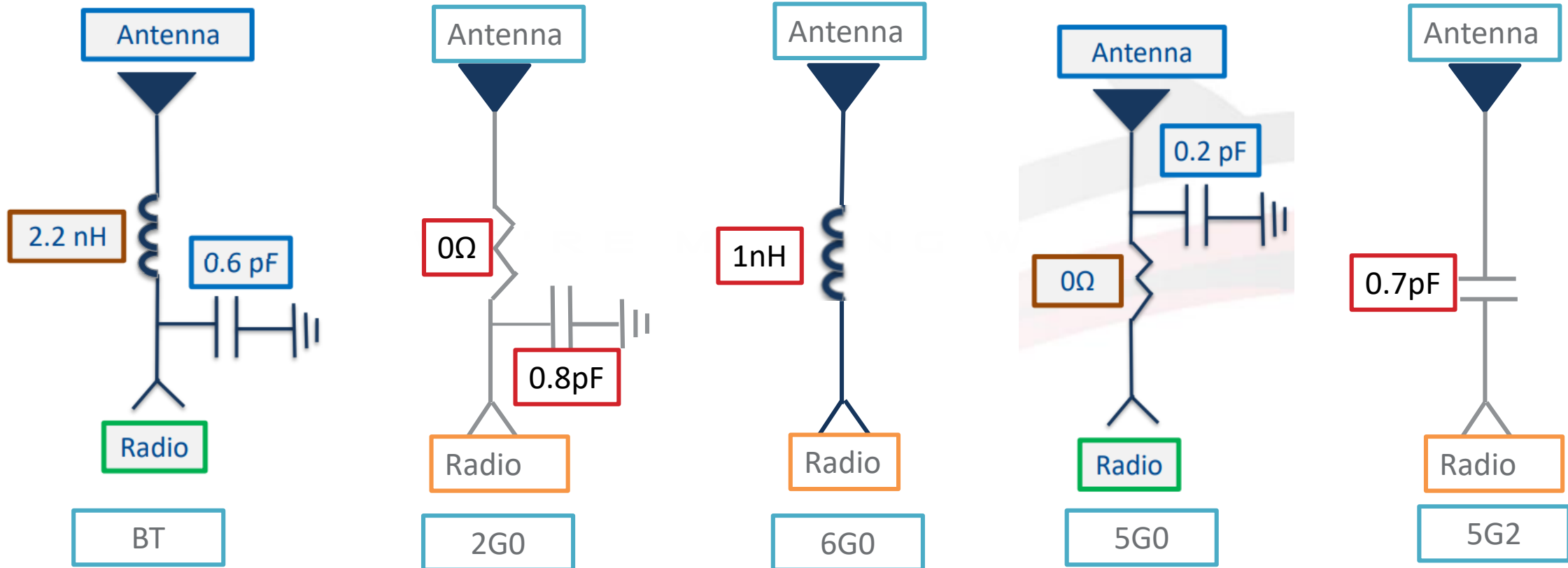
ANTENNA

Antenna	Assy Number	Part Number	Manufacturer
天线	组件编号	零件编号	制造商
5G0	02036142-07647-1	60-3589-03-1	Galtronics
5G1	02102142-07647-1	60-2782-03-1	Galtronics
5G2	02036142-07647-2	60-3590-03-1	Galtronics
6G0	02036475-07410	06-2783-03-1	Galtronics
6G1	02102475-07647-1	60-7124-03	Galtronics
DB	02102140-07647-1	06-2793-03	Galtronics
BT	02036073-06885-2	60-2773-03-2	Galtronics
2G0	02036073-06885-2	60-2773-03-2	Galtronics
Galtronics Factory: Galtronics Electronics (Wuxi) Co. No. 1, Xishi Road, Wuxi New District Jiangsu Province 214028, China			

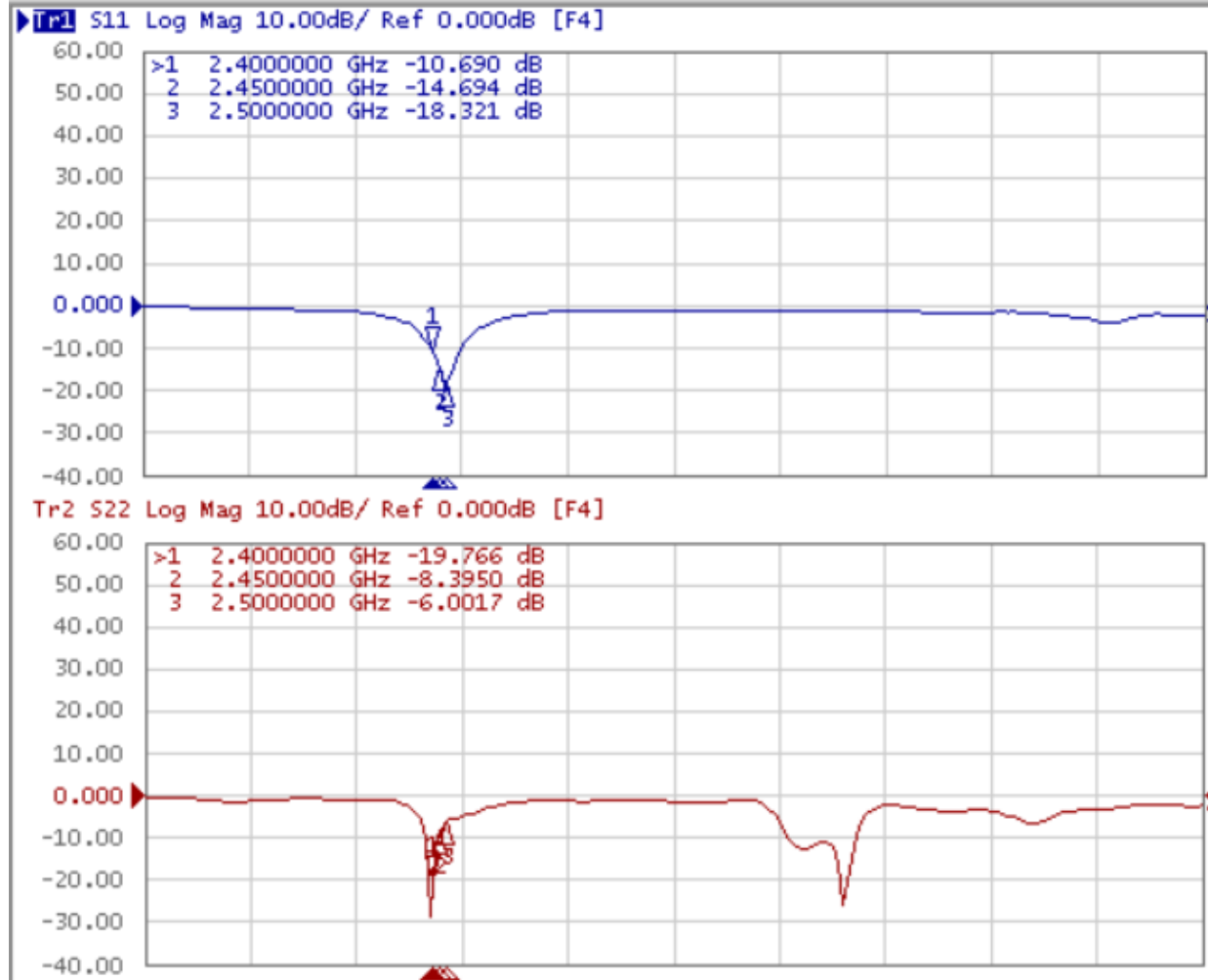
ANTENNA CONFIGURATION



LC MATCHING COMPONENTS



ANTENNA RETURN LOSS OF THE 2G0/BT



Port1=2G0

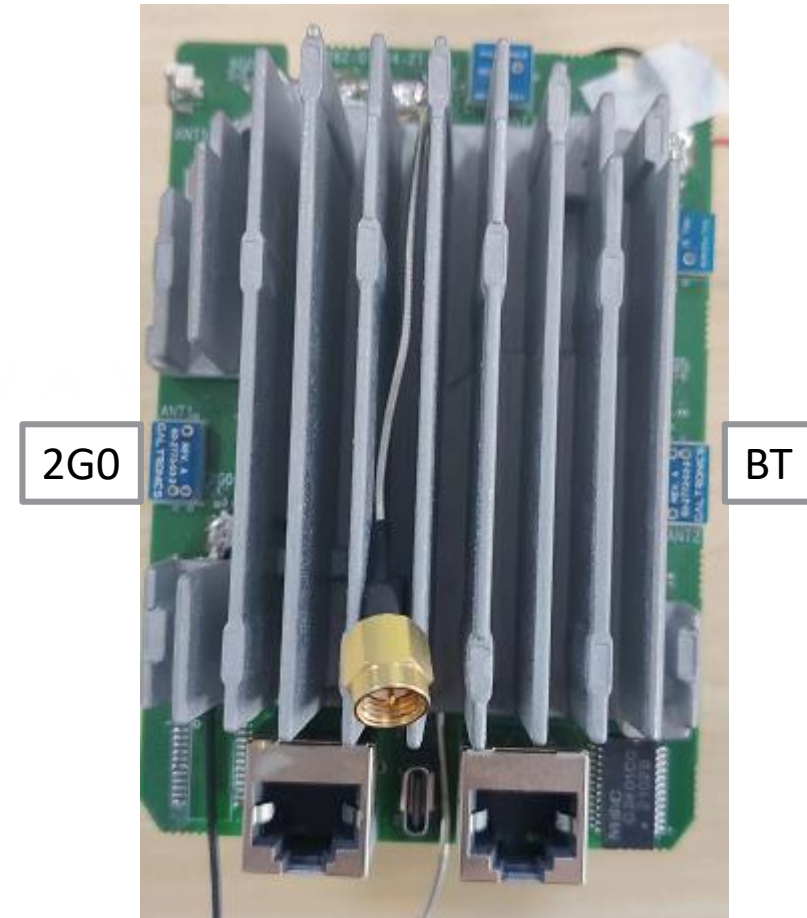
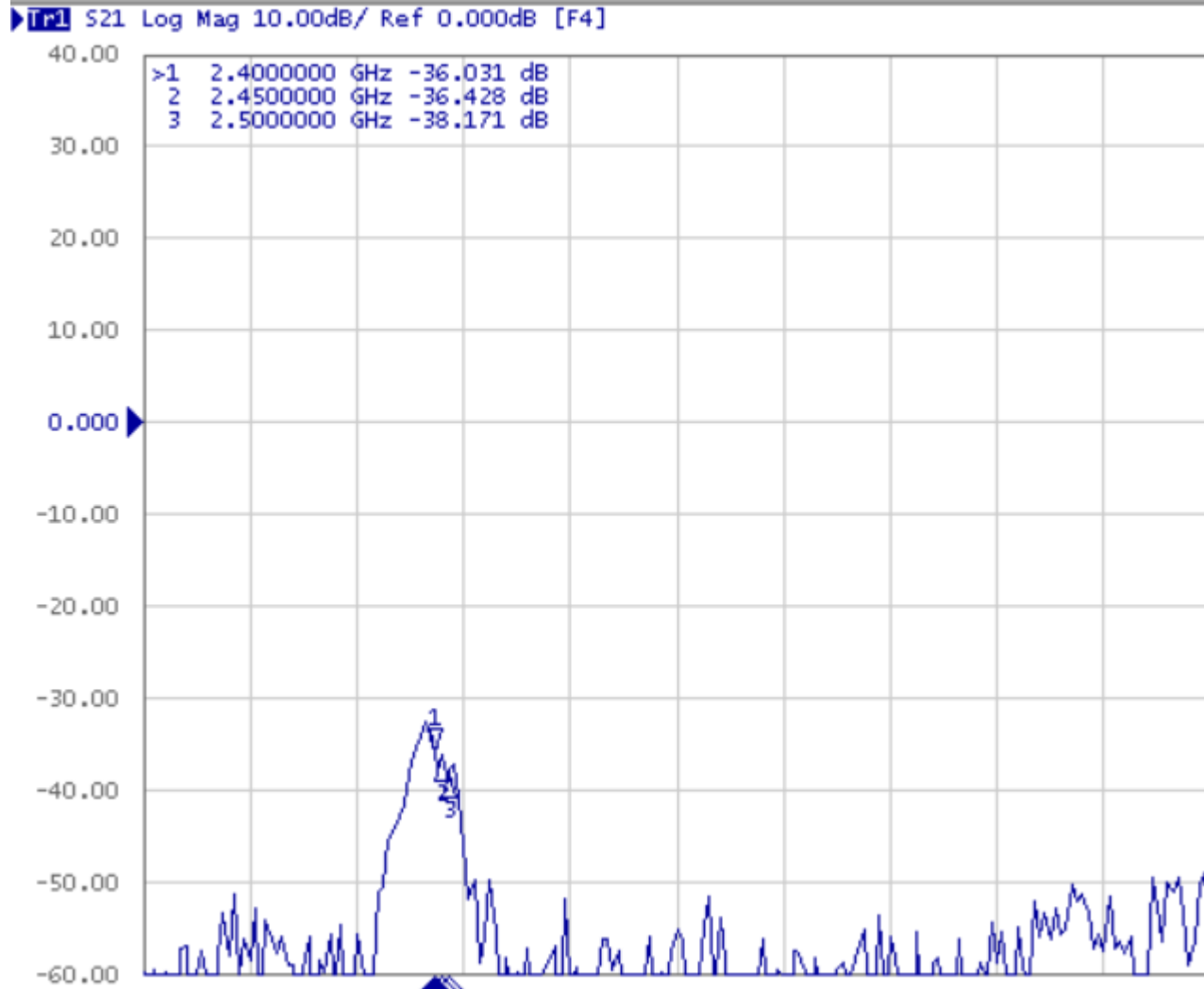
Port2=BT

2G0

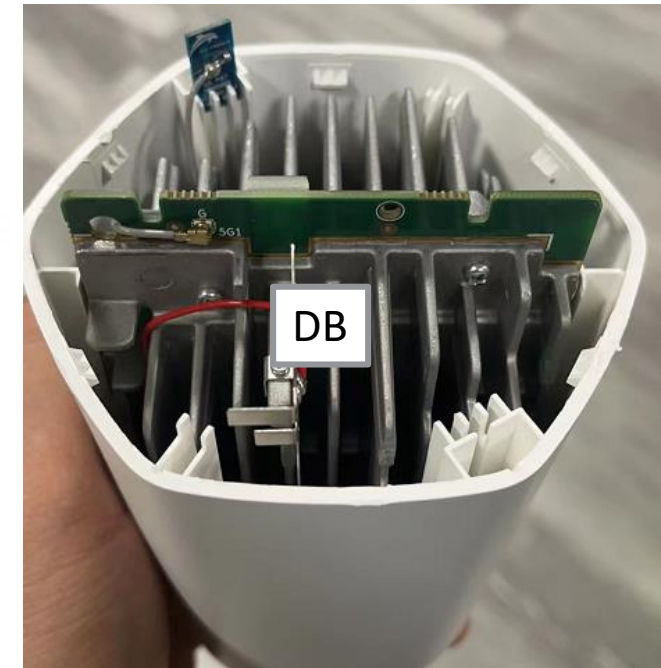
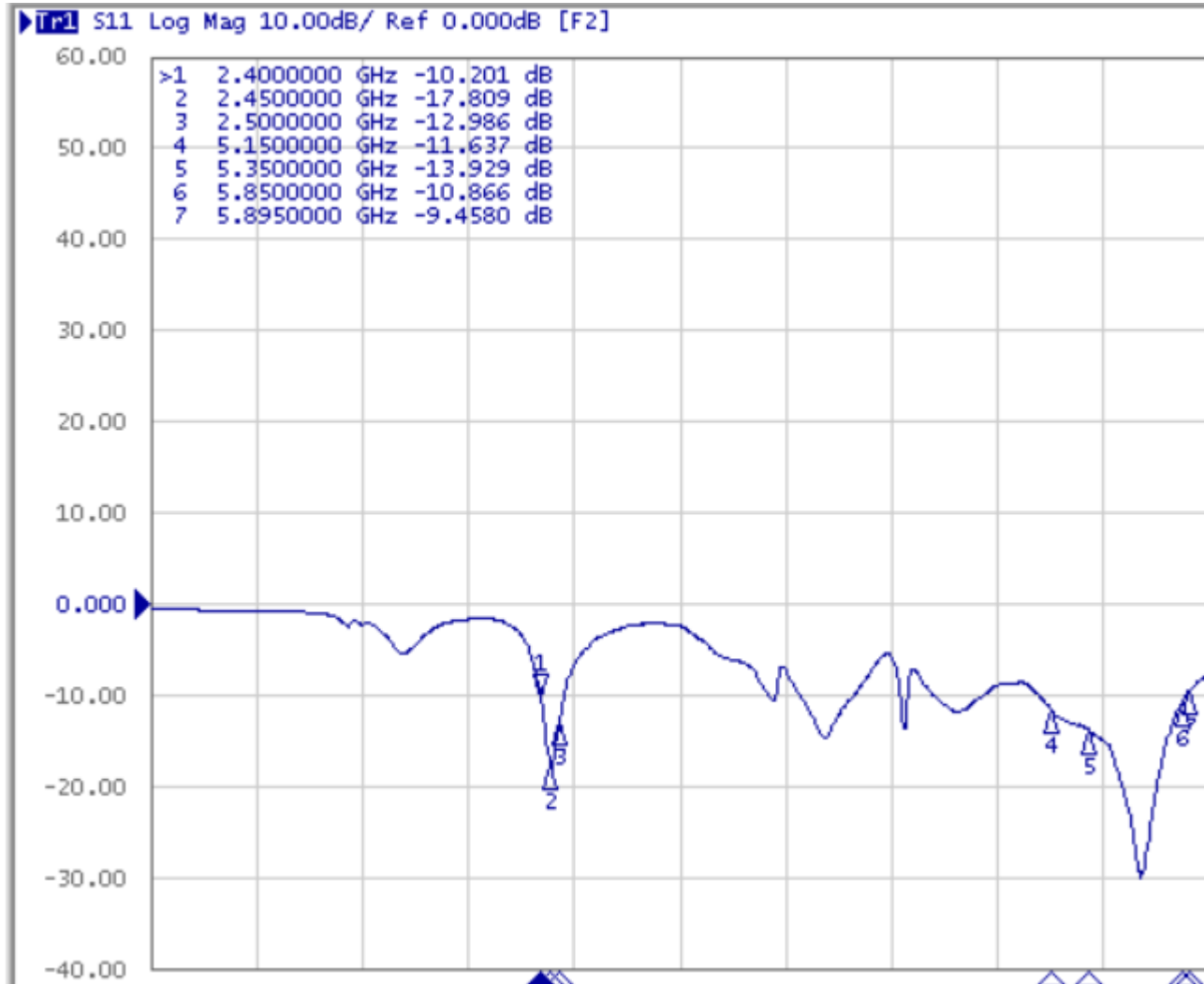
BT



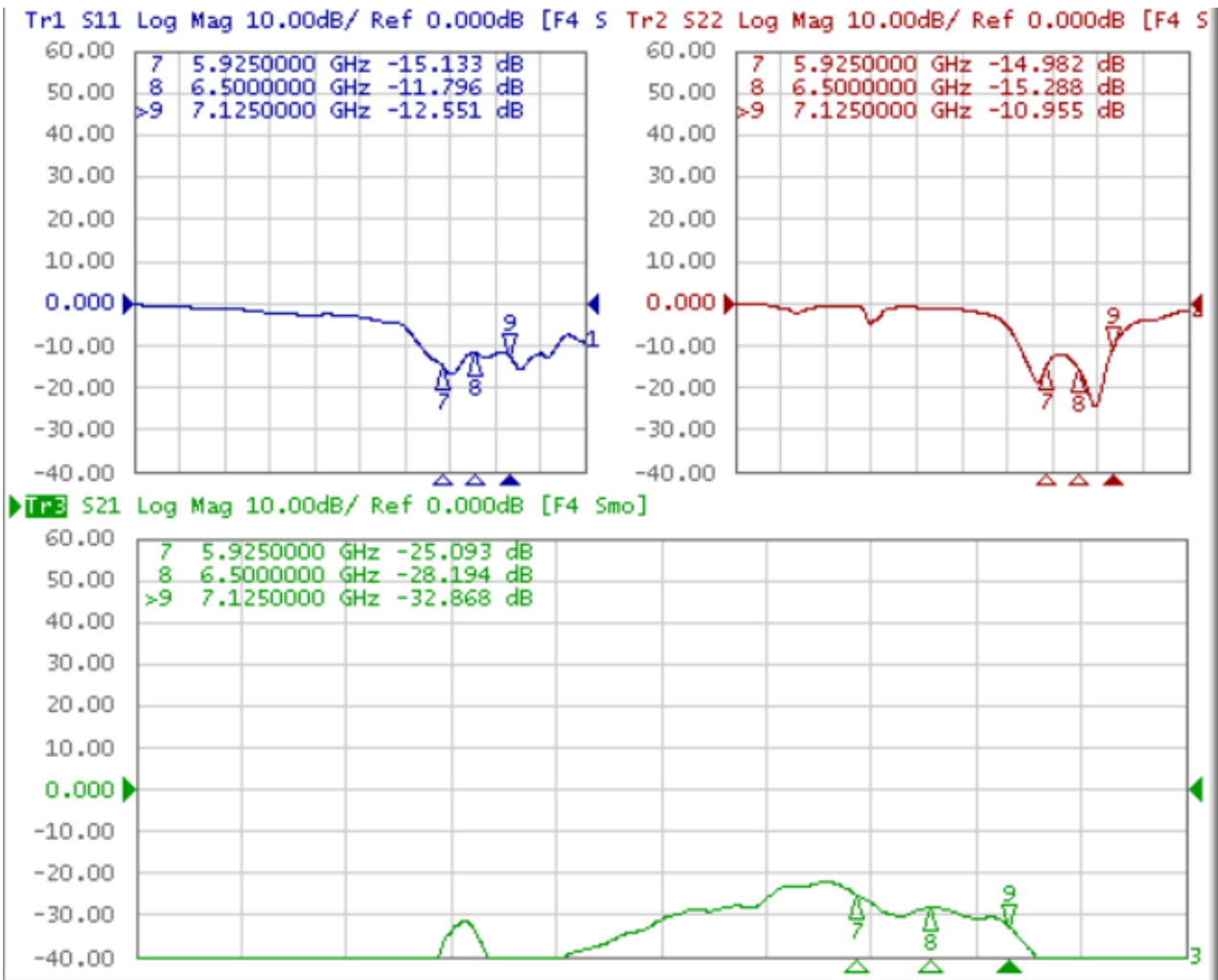
ANTENNA ISOLATION OF THE 2G0/BT



ANTENNA RETURN LOSS OF DB

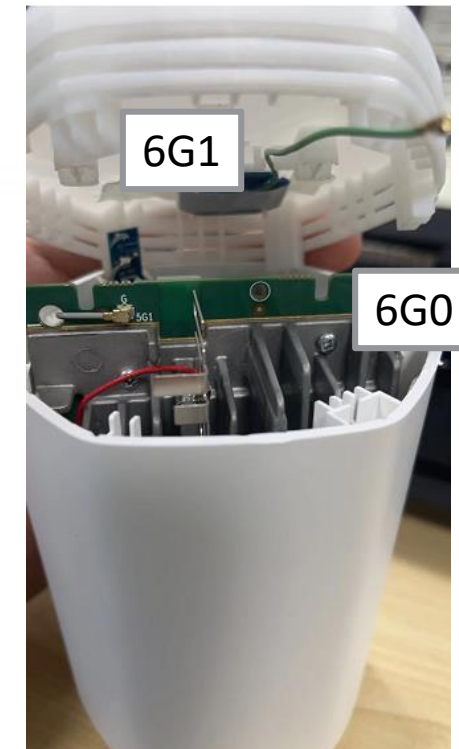


ANTENNA RETURN LOSS AND ISOLATION OF THE 6G



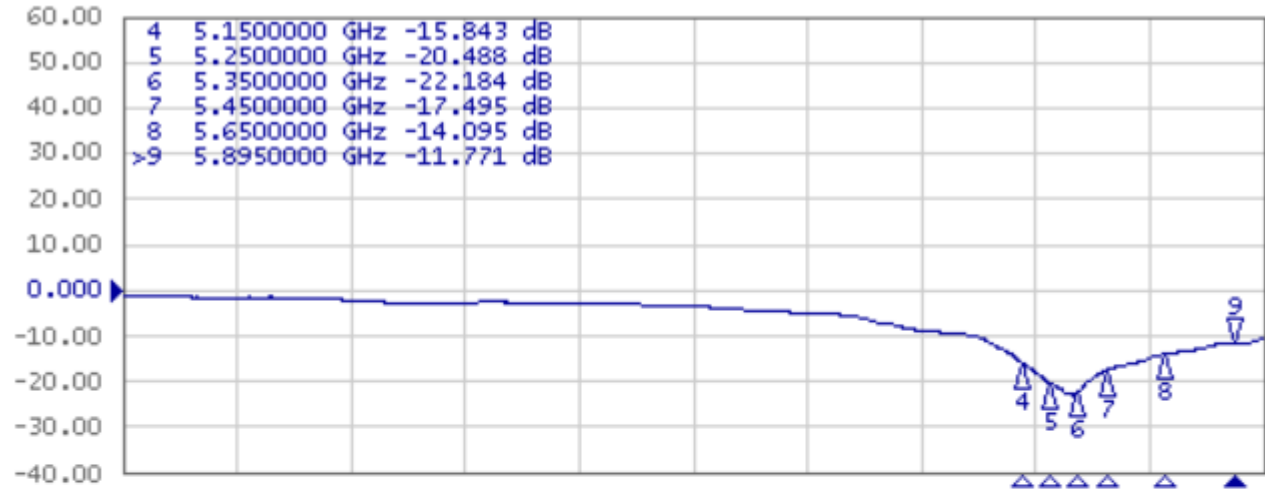
Port1=6G0

Port2=6G1



ANTENNA RETURN LOSS OF THE 5G0 AND 5G1

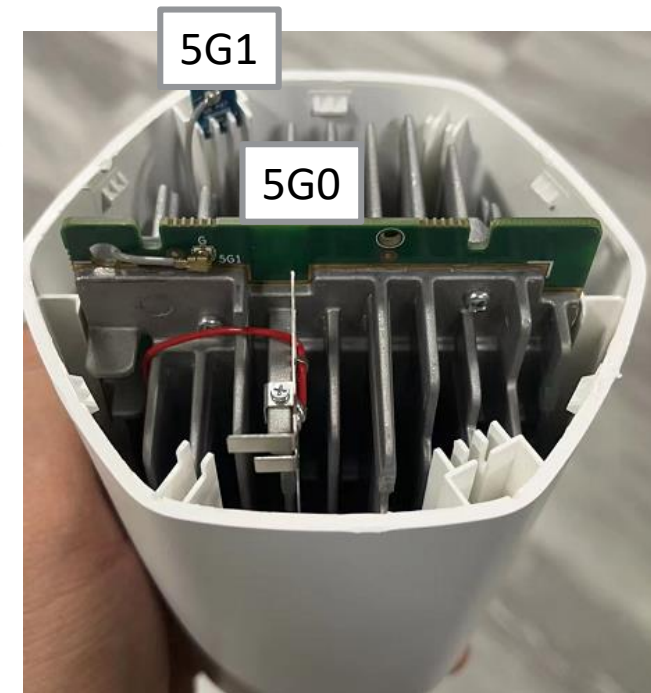
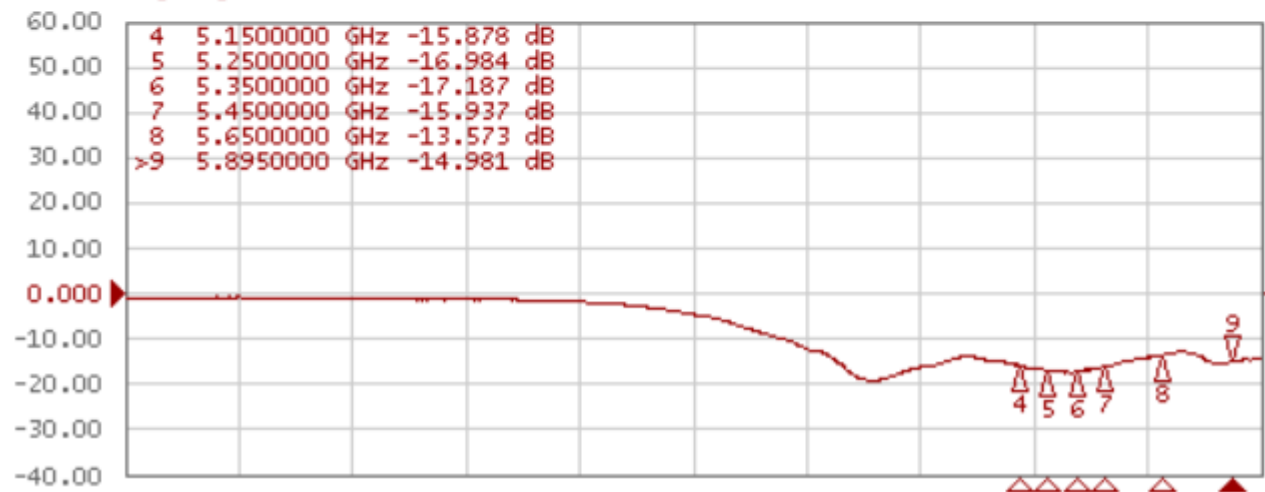
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]



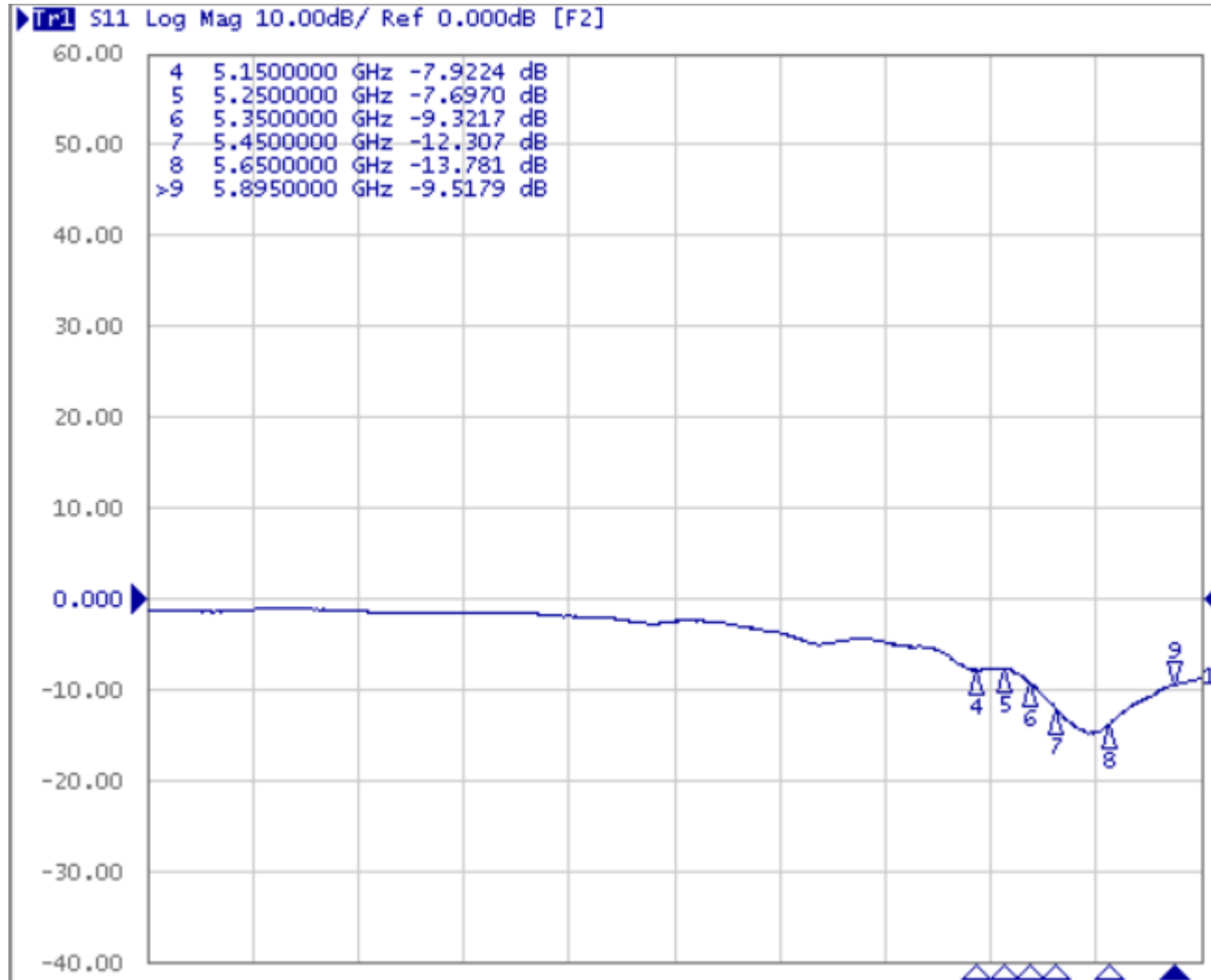
Port1=5G0

Port2=5G1

Tr2 S22 Log Mag 10.00dB/ Ref 0.000dB [F2]

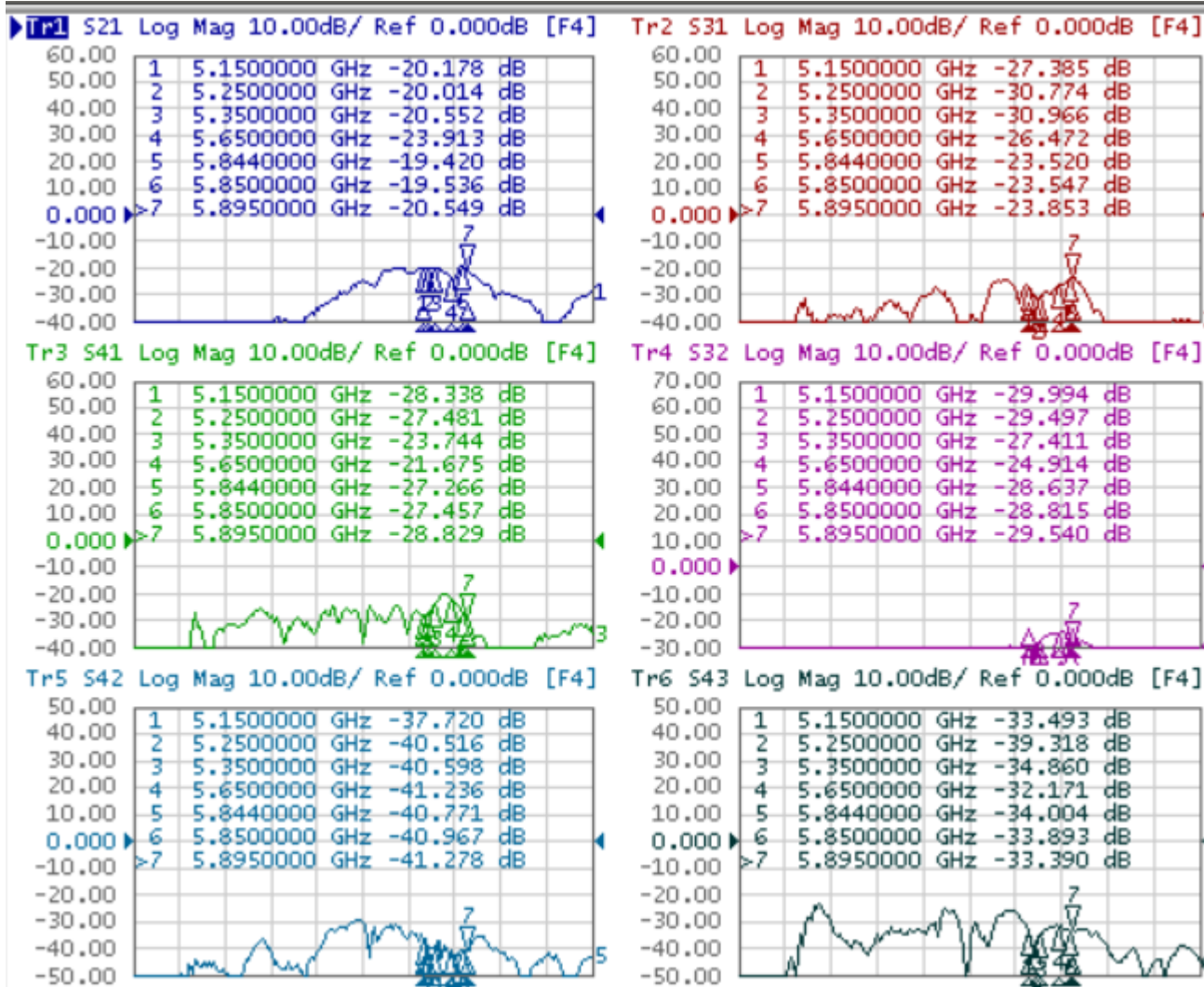


ANTENNA RETURN LOSS OF THE 5G2



5G2

ANTENNA ISOLATION OF THE 5G

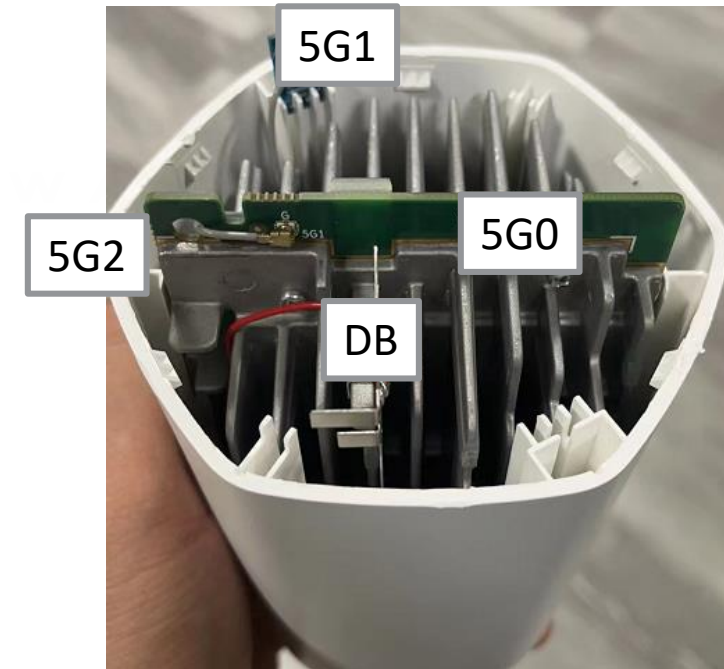


Port1=5G0

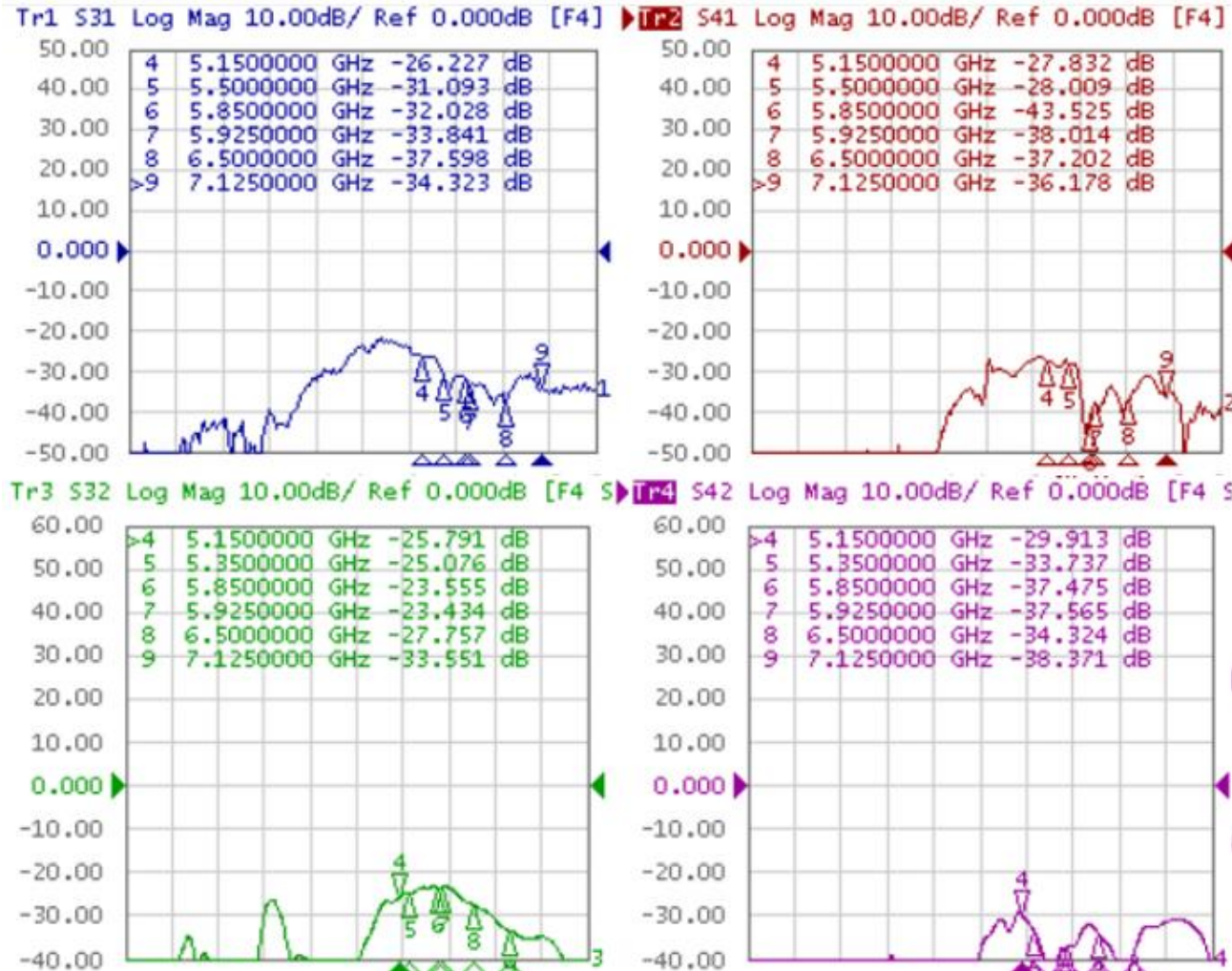
Port2=5G1

Port3=5G2

Port4=DB



ANTENNA ISOLATION BETWEEN 6G AND 5G

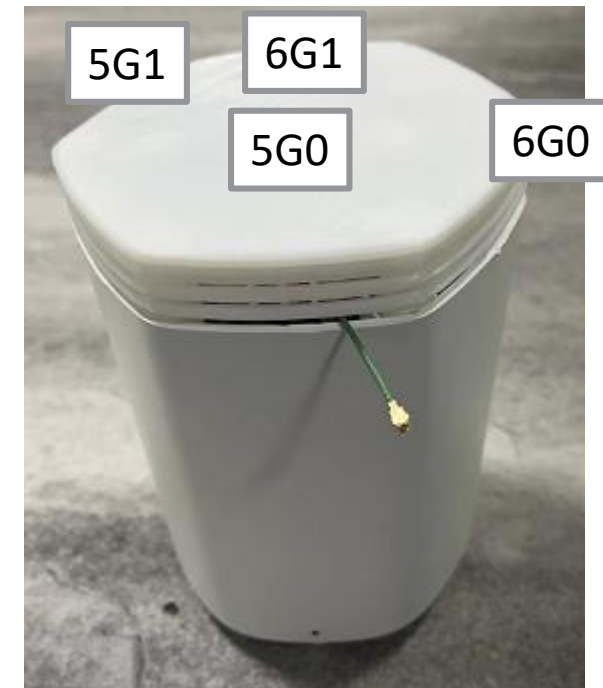


Port1=6G0

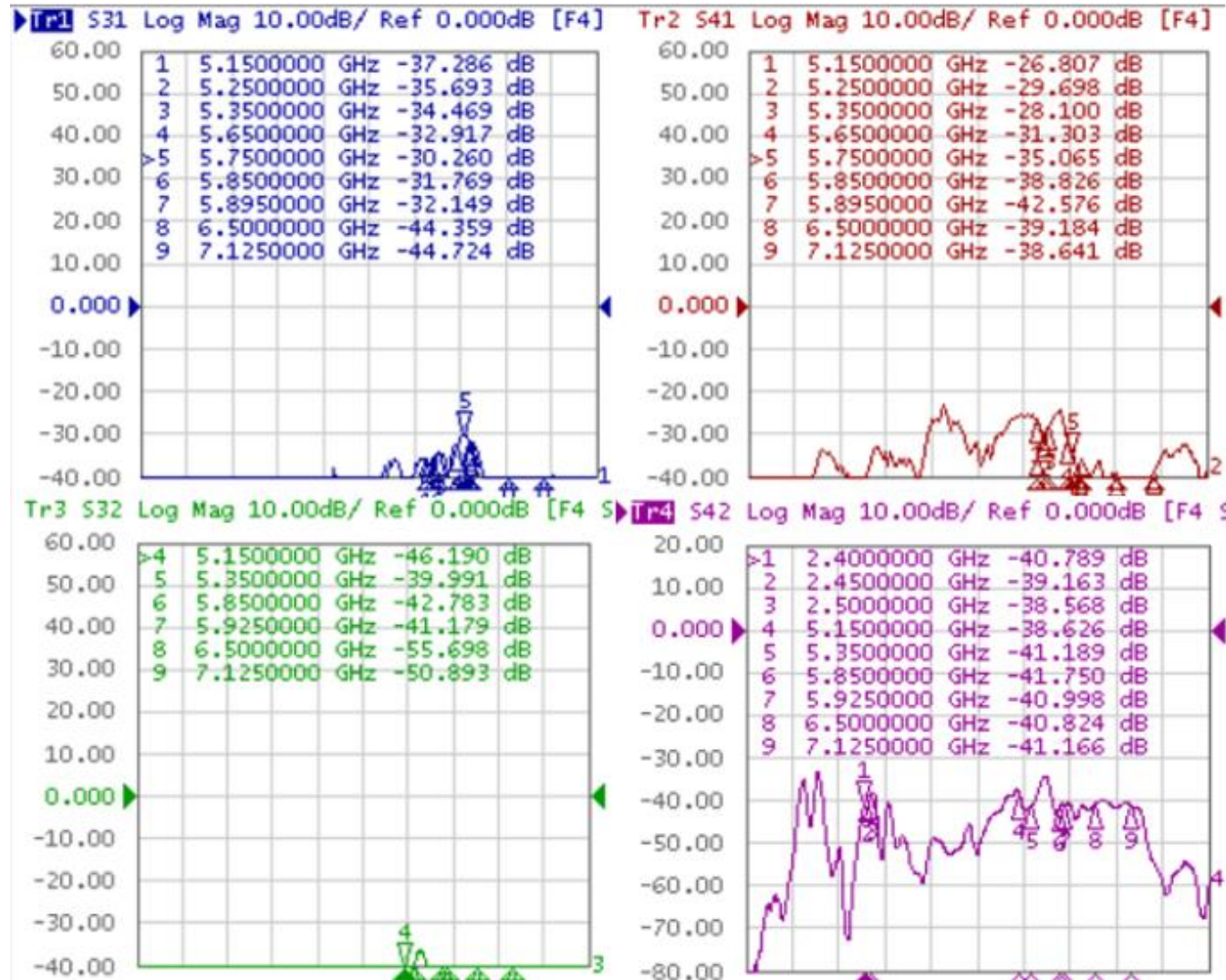
Port2=6G1

Port3=5G0

Port4=5G1



ANTENNA ISOLATION BETWEEN 6G AND 5G2/DB

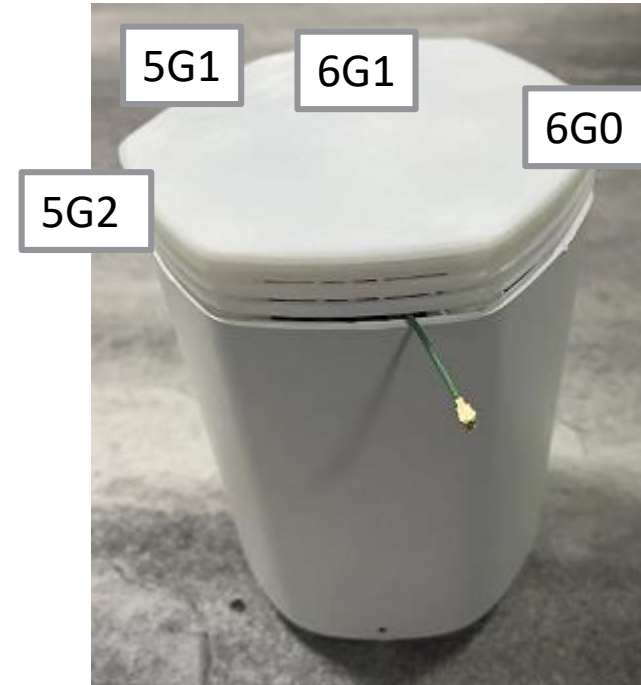


Port1=6G0

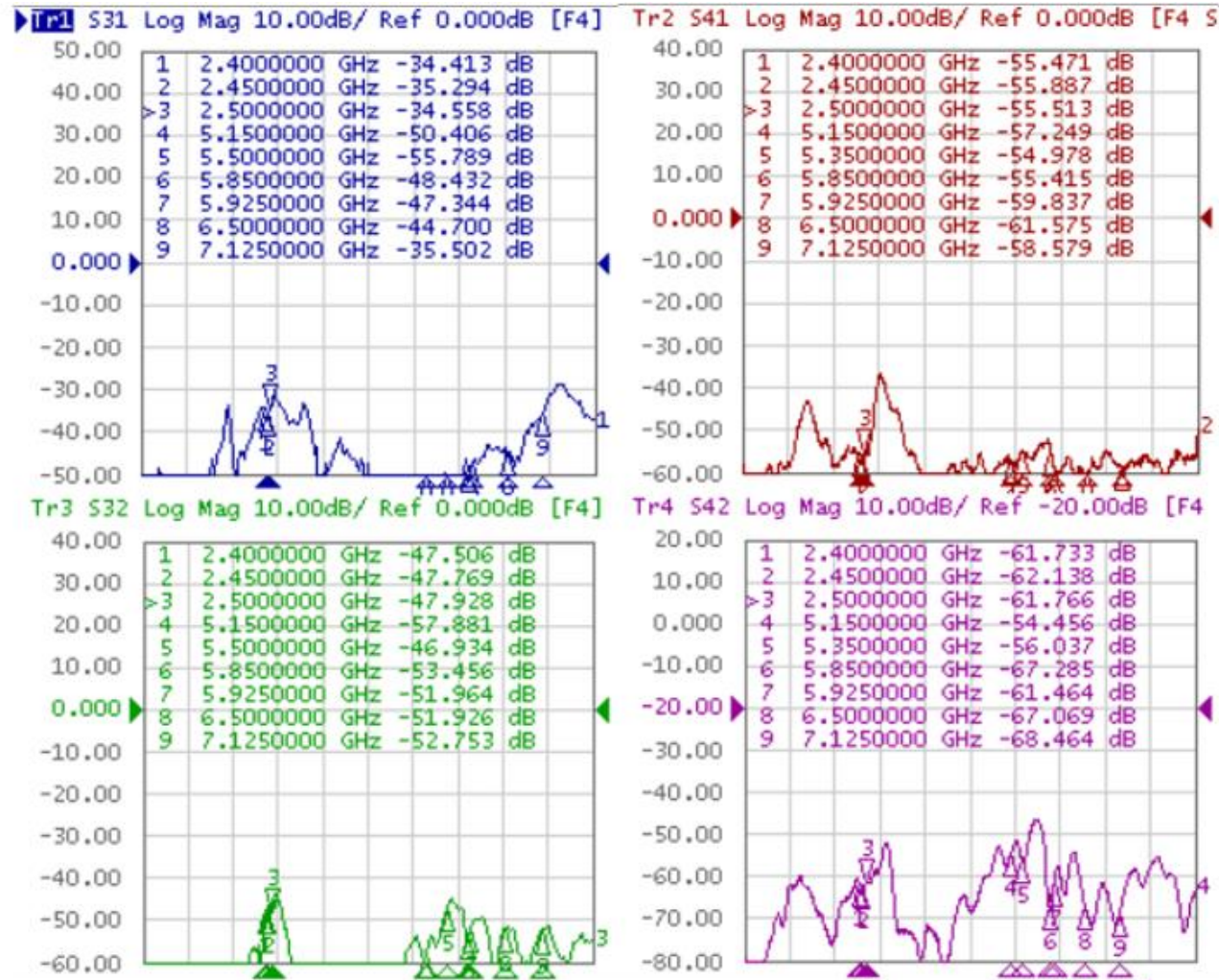
Port2=6G1

Port3=5G2

Port4=DB



ANTENNA ISOLATION BETWEEN 2G0,BT AND 6G

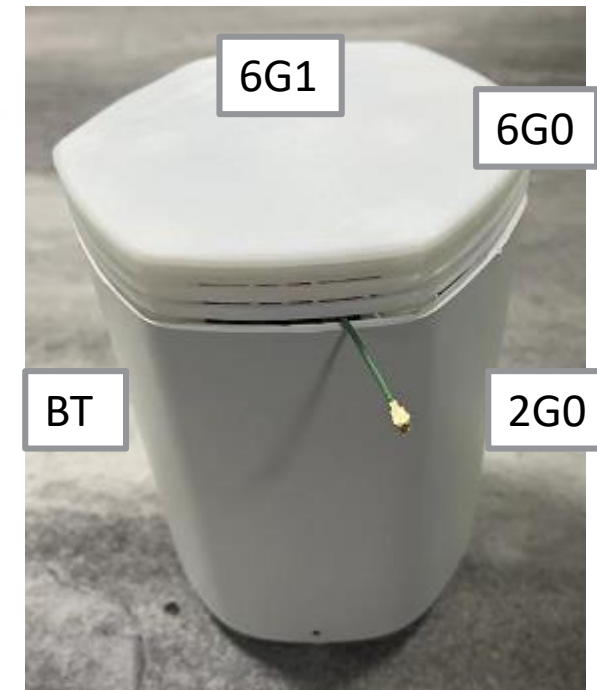


Port1=2G0

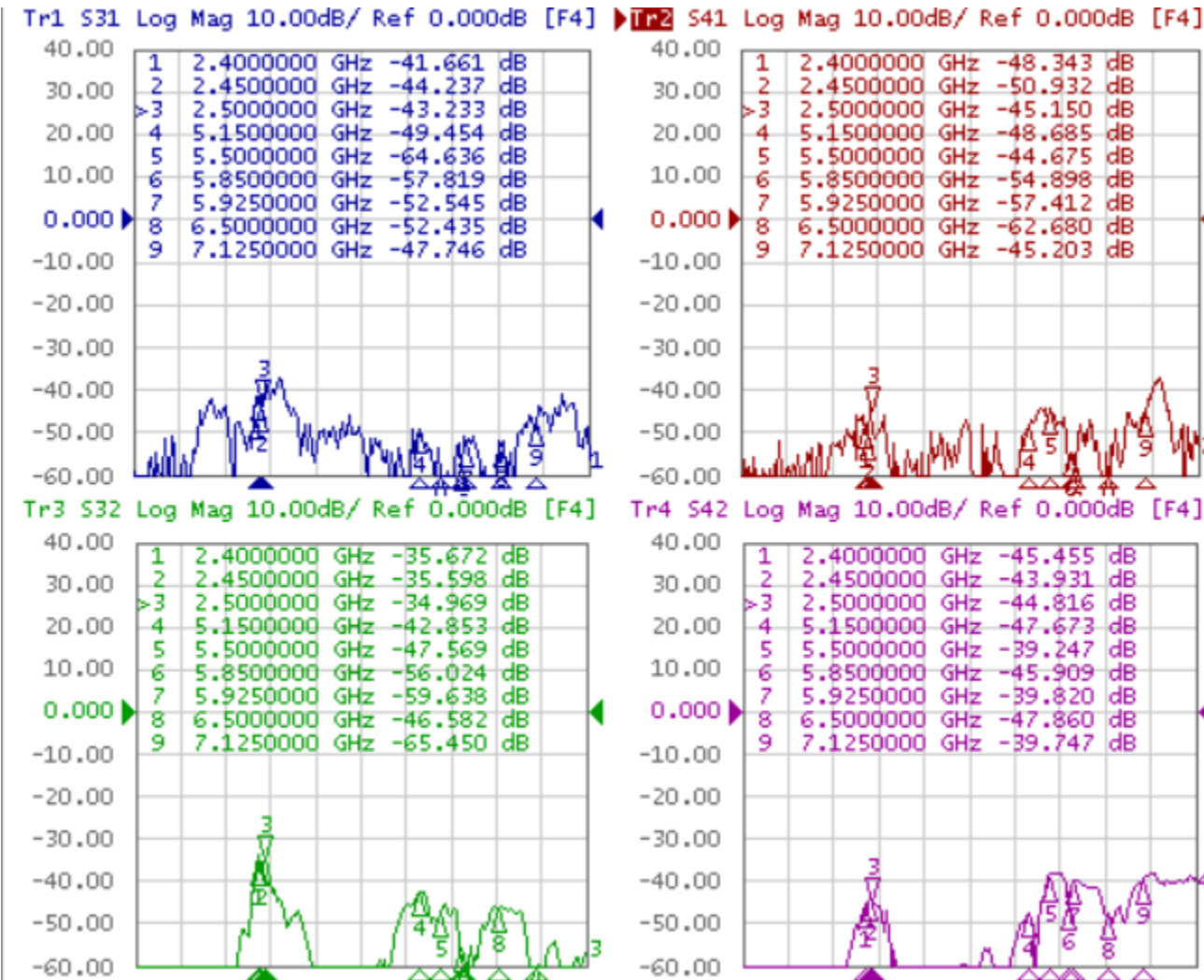
Port2=BT

Port3=6G0

Port4=6G1



ANTENNA ISOLATION BETWEEN 2G0/BT AND 5G

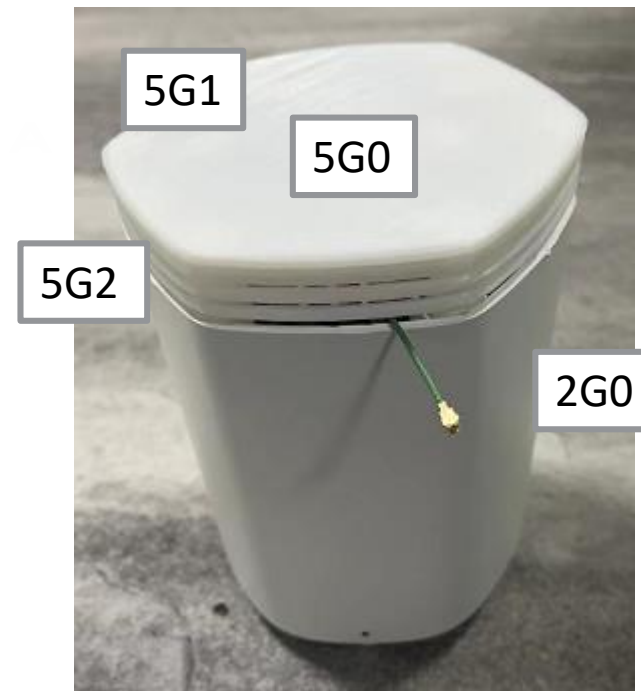


Port1=2G0

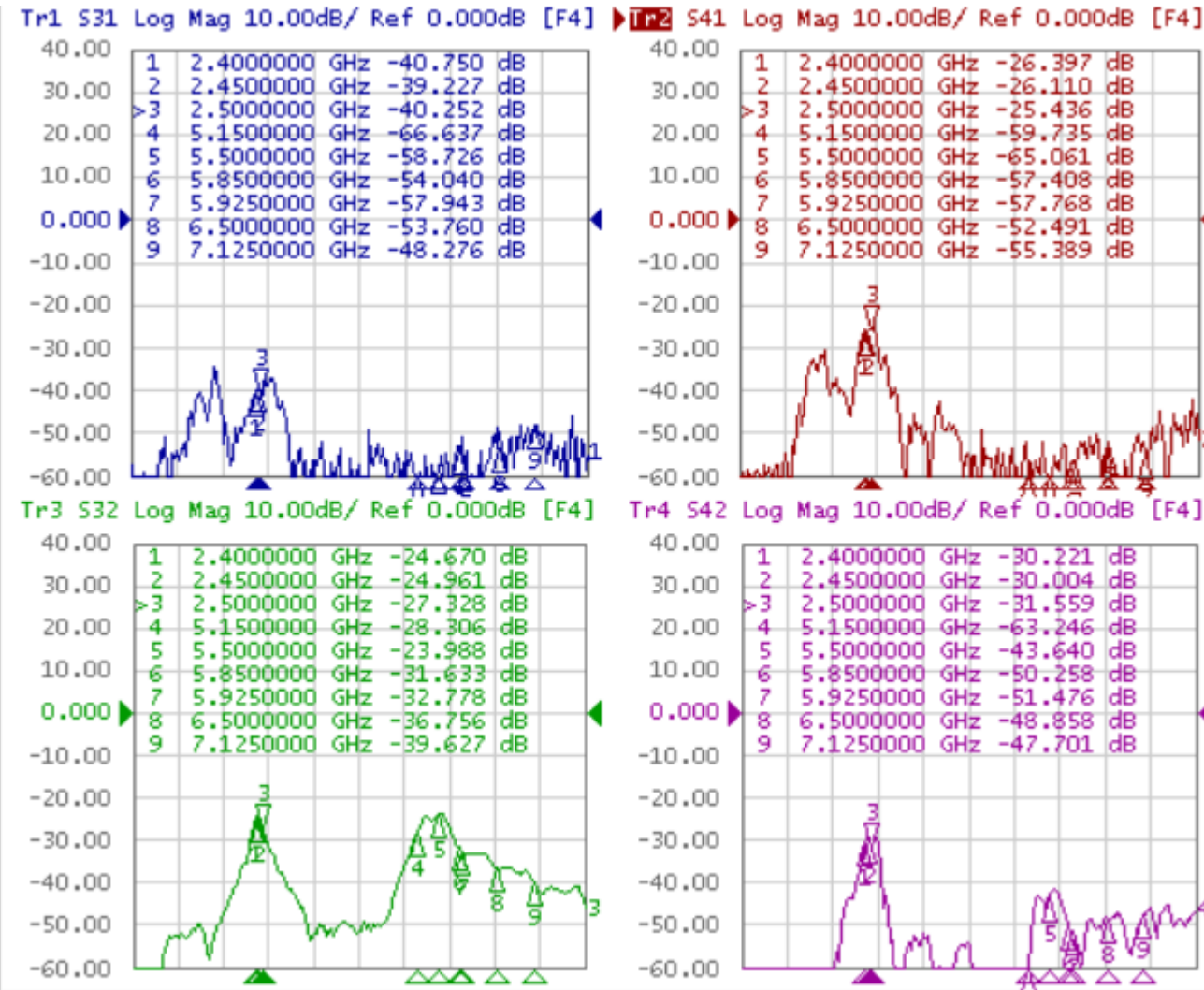
Port2=BT

Port3=5G0

Port4=5G1



ANTENNA ISOLATION BETWEEN 2G0/BT AND 5G/DB

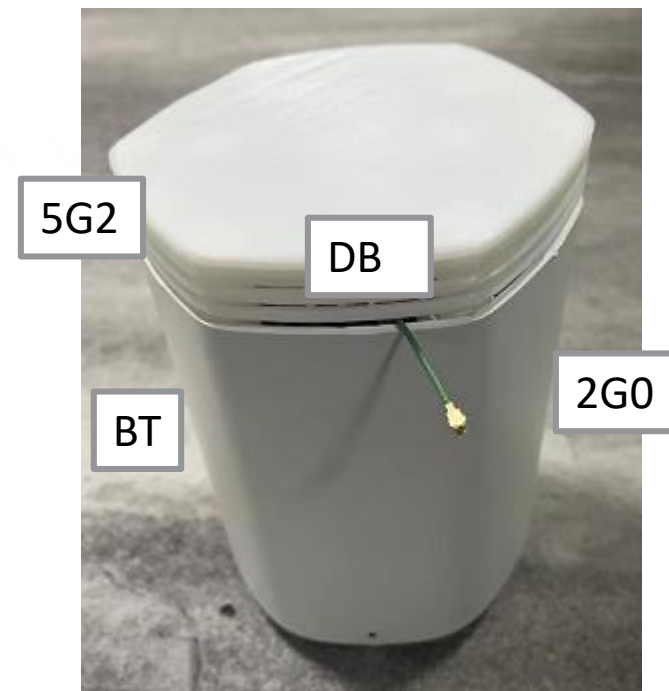


Port1=2G0

Port2=BT

Port3=5G2

Port4=DB



ANTENNA PEAK GAIN AND EFFICIENCY

2G0	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency (%)
	2400	3.5	5.7	61.7
	2450	3.2	5.5	61.1
	2500	3.8	5.9	63.8
	AVG			62.2

DB	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency (%)
	2400	4	6.1	61.3
	2450	4.1	6.2	62.4
	2500	4.1	6.2	60.8
	AVG			61.5

BT	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency (%)
	2400	0.9	4.9	39.3
	2450	0.9	5.1	38.3
	2500	0.7	5.0	37.3
	AVG			38.3

DB	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency (%)
	5150	3.67	5.70	62.67
	5350	4.02	5.87	65.24
	5500	3.89	5.65	66.67
	5725	4.53	6.39	65.10
	5825	5.03	6.97	64.00
	AVG			64.7

ANTENNA PEAK GAIN AND EFFICIENCY

6G0	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency (%)
	5925	4.7	6.7	63.5
	6225	4.3	5.7	72.8
	6325	3.6	5.3	67.2
	6575	4.2	5.8	69.3
	7125	3.9	6.1	60.2
	AVG			66.6

6G1	Freq (MHz)	Peak Gain (dBi)	Directivity (dB)	Efficiency (%)
	5925	3.4	5.4	62.8
	6225	3.1	5.2	61.5
	6325	3.6	5.7	60.5
	6575	4.2	6.0	67.3
	7125	3.2	5.5	60.0
	AVG			62.4

ANTENNA PEAK GAIN AND EFFICIENCY

5G0	Freq (MHz)	Peak Gain(dBi)	Directivity (dB)	Efficiency (%)
	5150	4.3	6.3	64.0
	5350	4.6	6.2	70.3
	5500	4.8	6.8	63.1
	5725	3.7	5.4	66.6
	5825	3.6	5.8	59.3
	AVG			64.7

5G1	Freq (MHz)	Peak Gain(dBi)	Directivity (dB)	Efficiency (%)
	5150	4.3	6.0	67.4
	5350	6.2	7.4	75.1
	5500	5.6	6.8	70.5
	5725	5.2	6.4	75.1
	5825	4.3	6.9	71.1
	AVG			71.8

5G2	Freq (MHz)	Peak Gain(dBi)	Directivity (dB)	Efficiency (%)
	5150	3.5	7.3	41.9
	5350	4.3	7.3	50.7
	5500	4.8	7.6	47.4
	5725	4.2	7.2	51.5
	5825	3.9	7.0	49.2
	AVG			48.1

2GHZ BAND HORIZONTAL, VERTICAL AND TOTAL CORRELATED/UNCORRELATED GAIN

Frequency (MHz)	Degree(°)		Gain(dBi)		Correlated Gain(dBi)-V-Pol
	Theta	Phi	2G0	DB	
2400	270	15	2.71	-3.46	3.17
2450	270	15	2.32	-3.49	2.90
2500	300	60	2.40	-4.68	2.57

Frequency (MHz)	Degree(°)		Gain(dBi)		Correlated Gain(dBi)-H-Pol
	Theta	Phi	2G0	DB	
2400	120	45	-5.53	-1.75	-0.43
2450	120	45	-6.35	-1.32	-0.46
2500	120	45	-7.81	-1.07	-0.79

Frequency (MHz)	Degree(°)		Gain(dBi)		Correlated Gain(dBi)-Total
	Theta	Phi	2G0	DB	
2400	270	0	2.31	0.50	4.46
2450	270	0	1.93	0.48	4.25
2500	90	165	0.11	1.49	3.84

Frequency (MHz)	Degree(°)		Gain(dBi)		UnCorrelated Gain(dBi)-V-Pol
	Theta	Phi	2G0	DB	
2400	270	15	2.71	-3.46	0.64
2450	120	90	-12.87	3.48	0.57
2500	120	90	-19.67	3.47	0.48

Frequency (MHz)	Degree(°)		Gain(dBi)		UnCorrelated Gain(dBi)-H-Pol
	Theta	Phi	2G0	DB	
2400	120	45	-5.53	-1.75	-3.24
2450	120	45	-6.35	-1.32	-3.14
2500	120	45	-7.81	-1.07	-3.24

Frequency (MHz)	Degree(°)		Gain(dBi)		UnCorrelated(dBi)-Total
	Theta	Phi	2G0	DB	
2400	270	15	3.21	-1.12	1.56
2450	270	0	1.93	0.48	1.27
2500	300	45	3.80	-4.17	1.43

5GHZ BAND HORIZONTAL, VERTICAL AND TOTAL CORRELATED/UNCORRELATED GAIN

Frequency (MHz)	Degree(°)		Gain(dBi)				Correlated Gain(dBi)-V-Pol
	Theta	Phi	5G0	5G1	5G2	DB	
5150	75	15	0.25	-3.13	-0.56	1.41	5.67
5350	90	15	-0.94	-1.63	-2.96	2.04	5.35
5500	285	165	-0.73	1.66	-0.57	-1.26	5.87
5725	90	15	-0.19	-0.67	-6.56	3.16	5.61
5825	90	15	0.18	-3.04	-6.83	3.89	5.45

Frequency (MHz)	Degree(°)		Gain(dBi)				Correlated Gain(dBi)-H-Pol
	Theta	Phi	5G0	5G1	5G2	DB	
5150	15	45	-10.21	-5.18	-1.82	0.66	2.76
5350	210	150	1.85	-6.86	-3.81	-3.69	3.49
5500	225	15	1.97	-5.19	-8.44	-1.69	3.54
5725	345	165	-4.14	0.82	-1.23	2.78	5.94
5825	345	165	-4.00	-0.80	-1.20	2.59	5.49

Frequency (MHz)	Degree(°)		Gain(dBi)				Correlated Gain(dBi)-Total
	Theta	Phi	5G0	5G1	5G2	DB	
5150	90	0	-0.15	0.87	0.88	2.82	7.19
5350	285	165	0.70	0.76	3.22	1.33	7.58
5500	285	165	0.35	2.68	2.78	1.33	7.86
5725	345	165	-1.45	2.18	1.69	4.53	8.01
5825	345	165	-0.40	0.62	1.38	5.03	7.93

Frequency (MHz)	Degree(°)		Gain(dBi)				Uncorrelated Gain(dBi)-V-Pol
	Theta	Phi	5G0	5G1	5G2	DB	
5150	240	0	-1.33	3.59	-11.12	0.56	0.25
5350	285	60	-4.23	5.55	-17.23	-4.49	0.35
5500	285	60	-1.05	4.93	-16.45	-4.27	0.31
5725	90	15	-0.19	-0.67	-6.56	3.16	0.12
5825	90	15	0.18	-3.04	-6.83	3.89	0.21

Frequency (MHz)	Degree(°)		Gain(dBi)				Uncorrelated Gain(dBi)-H-Pol
	Theta	Phi	5G0	5G1	5G2	DB	
5150	345	135	-9.68	-13.60	2.14	-3.00	-2.43
5350	300	120	-5.67	-7.43	3.27	-8.17	-1.66
5500	300	135	-6.73	-7.76	3.88	-9.85	-1.36
5725	345	165	-4.14	0.82	-1.23	2.78	0.26
5825	345	165	-4.00	-0.80	-1.20	2.59	-0.22

Frequency (MHz)	Degree(°)		Gain(dBi)				Uncorrelated(dBi)-Total
	Theta	Phi	5G0	5G1	5G2	DB	
5150	240	0	2.61	4.29	-9.30	1.74	1.85
5350	285	165	0.70	0.76	3.22	1.33	1.63
5500	225	15	4.81	2.70	-7.24	2.31	2.29
5725	345	165	-1.45	2.18	1.69	4.53	2.23
5825	345	165	-0.40	0.62	1.38	5.03	2.19

6GHZ BAND HORIZONTAL, VERTICAL AND TOTAL CORRELATED/UNCORRELATED GAIN

Frequency (MHz)	Degree (°)		Gain (dBi)		Correlated Gain (dBi) -V-Pol
	Theta	Phi	6G0	6G1	
5925	210	45	0.35	-1.42	2.52
6225	210	15	0.77	-0.53	3.15
6325	225	15	1.70	-1.59	3.22
6575	225	15	1.05	0.12	3.61
7125	15	165	-0.91	-1.15	1.98

Frequency (MHz)	Degree (°)		Gain (dBi)		Correlated Gain (dBi) -H-Pol
	Theta	Phi	6G0	6G1	
5925	240	0	2.37	0.30	4.41
6225	240	0	1.33	1.36	4.35
6325	285	15	2.34	-1.33	3.71
6575	285	15	3.33	-1.60	4.22
7125	300	30	1.18	1.03	4.12

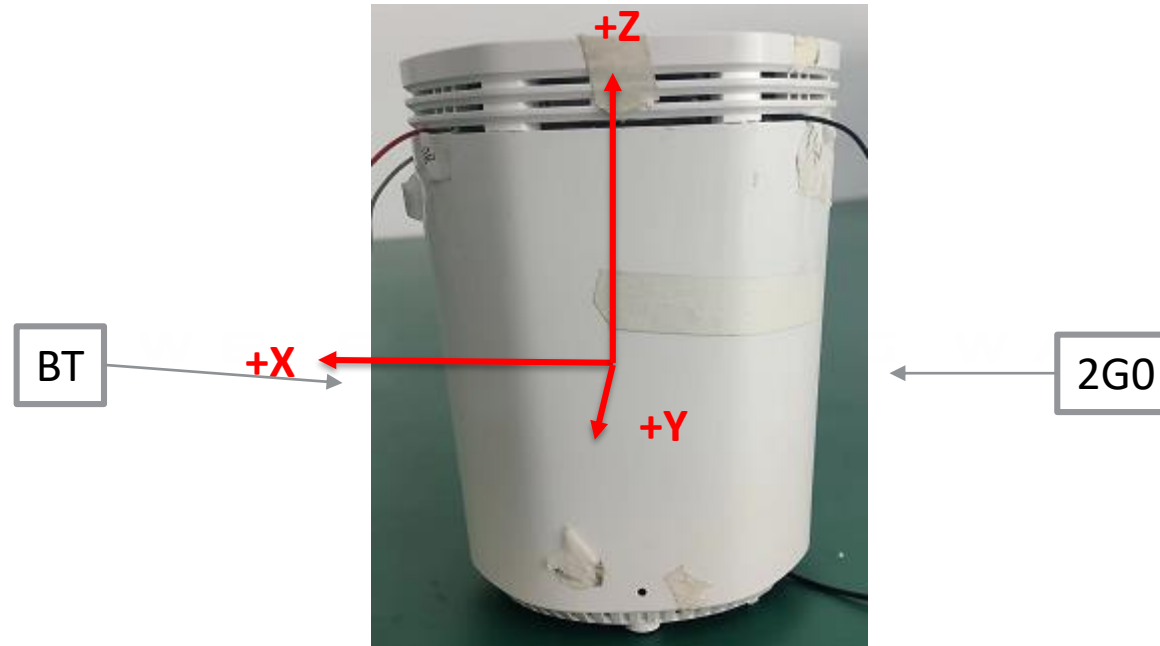
Frequency (MHz)	Degree		Gain		Correlated Gain (dBi) -Total
	Theta	Phi	6G0	6G1	
5925	240	0	4.24	1.69	6.07
6225	225	0	3.46	2.84	6.17
6325	225	0	3.62	3.56	6.60
6575	225	15	3.18	3.91	6.56
7125	300	30	3.94	1.11	5.65

Frequency (MHz)	Degree (°)		Gain (dBi)		UnCorrelated Gain (dBi) -V-Pol
	Theta	Phi	6G0	6G1	
5925	255	0	2.17	-6.03	-0.23
6225	210	15	0.77	-0.53	0.17
6325	225	15	1.70	-1.59	0.36
6575	225	15	1.05	0.12	0.61
7125	15	165	-0.91	-1.15	-1.03

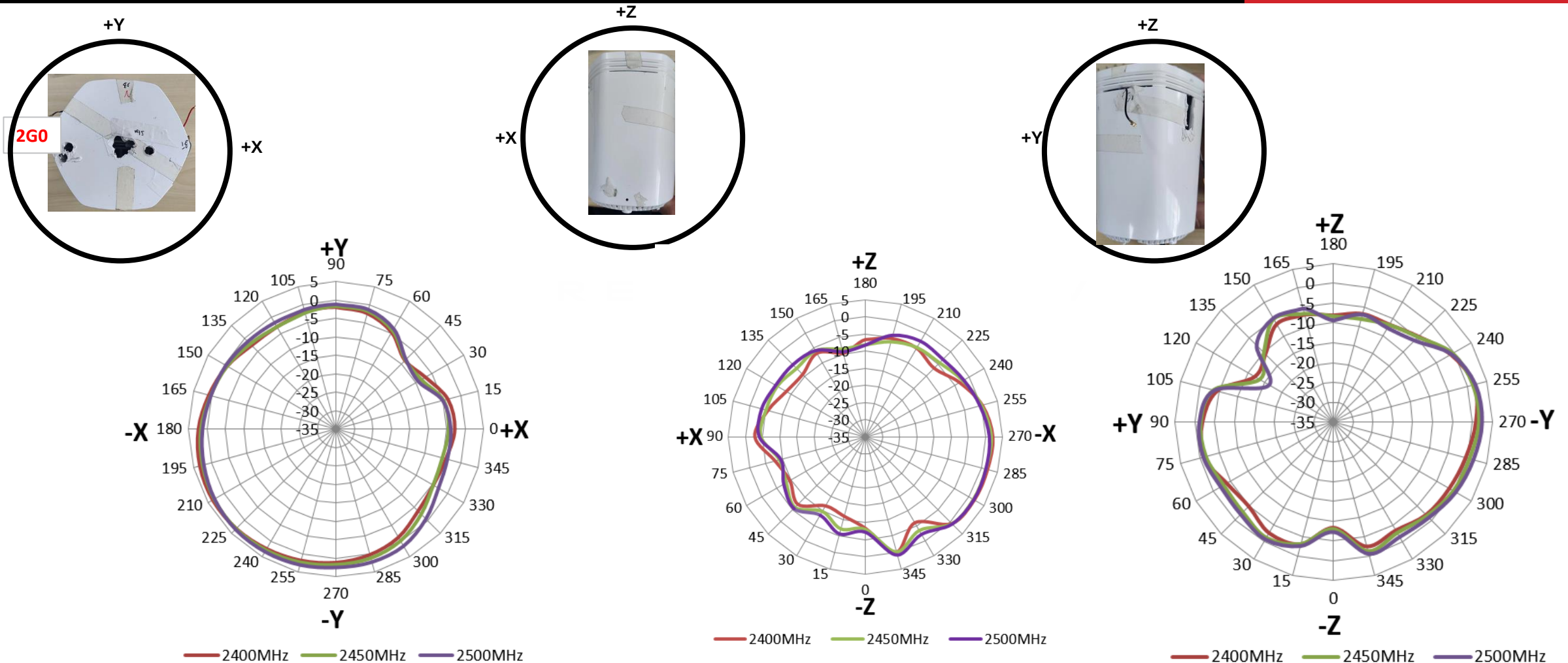
Frequency (MHz)	Degree (°)		Gain (dBi)		UnCorrelated Gain (dBi) -H-Pol
	Theta	Phi	6G0	6G1	
5925	240	0	2.37	0.30	1.46
6225	240	0	1.33	1.36	1.34
6325	285	15	2.34	-1.33	0.88
6575	285	15	3.33	-1.60	1.53
7125	300	30	1.18	1.03	1.11

Frequency (MHz)	Degree (°)		Gain (dBi)		Uncorrelated (dBi) -Total
	Theta	Phi	6G0	6G1	
5925	240	0	4.24	1.69	3.15
6225	225	0	3.46	2.84	3.16
6325	225	0	3.62	3.56	3.59
6575	225	15	3.18	3.91	3.56
7125	300	30	3.94	1.11	2.75

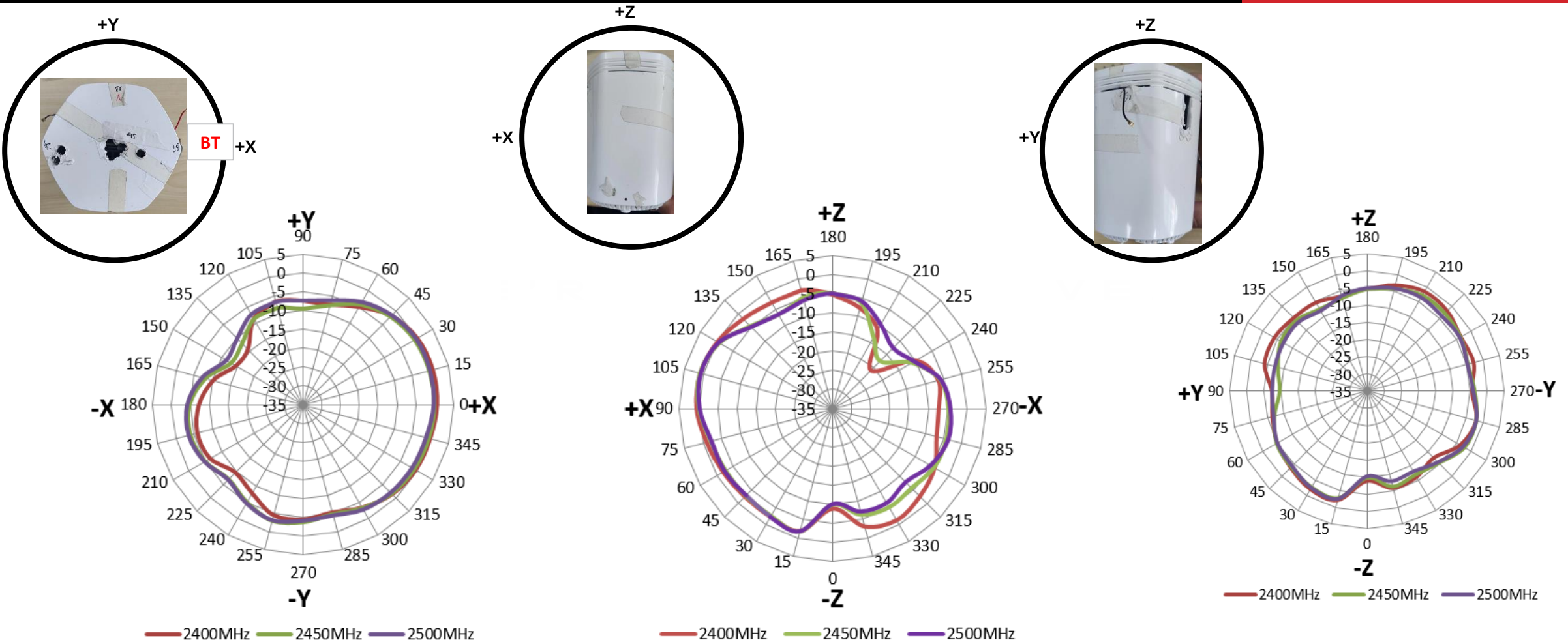
CHAMBER COORDINATES



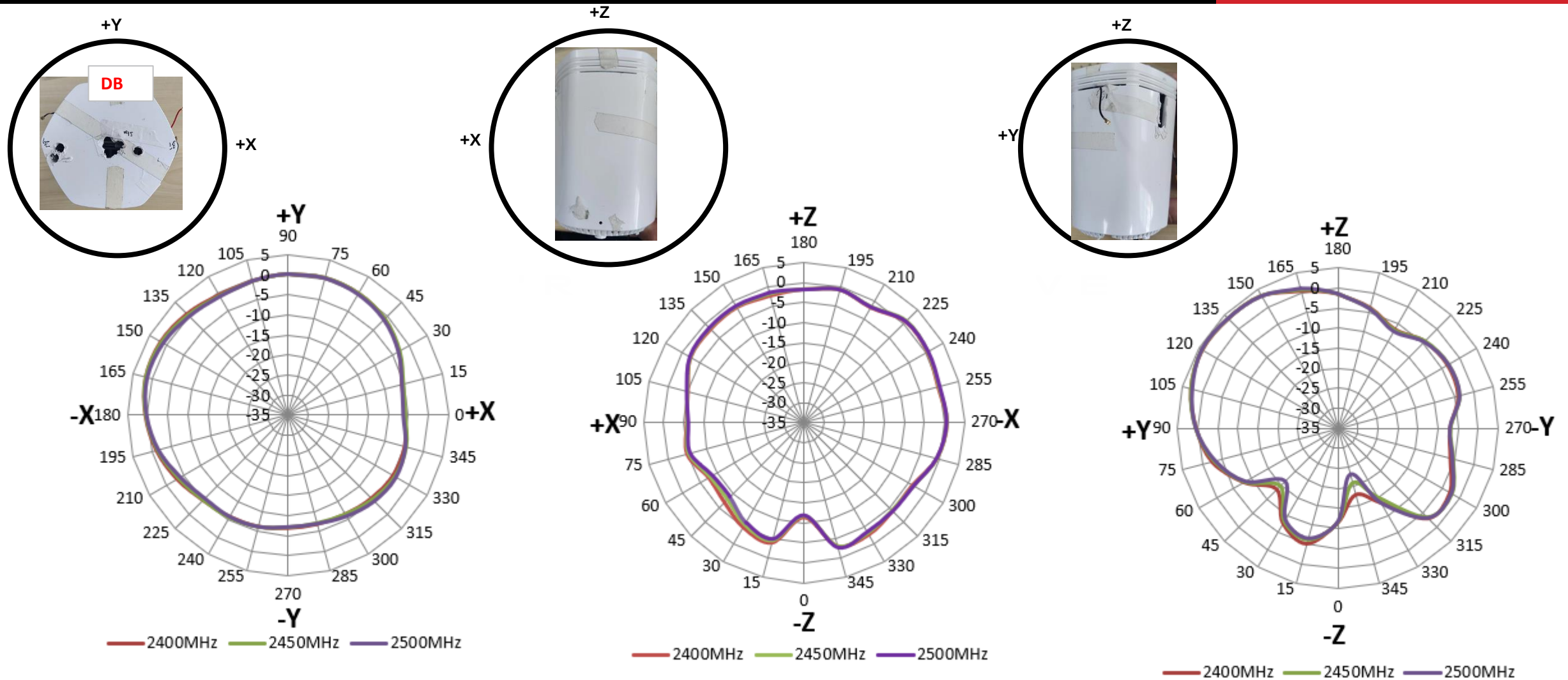
2G0 ANTENNA POWER SUM GAIN PATTERNS



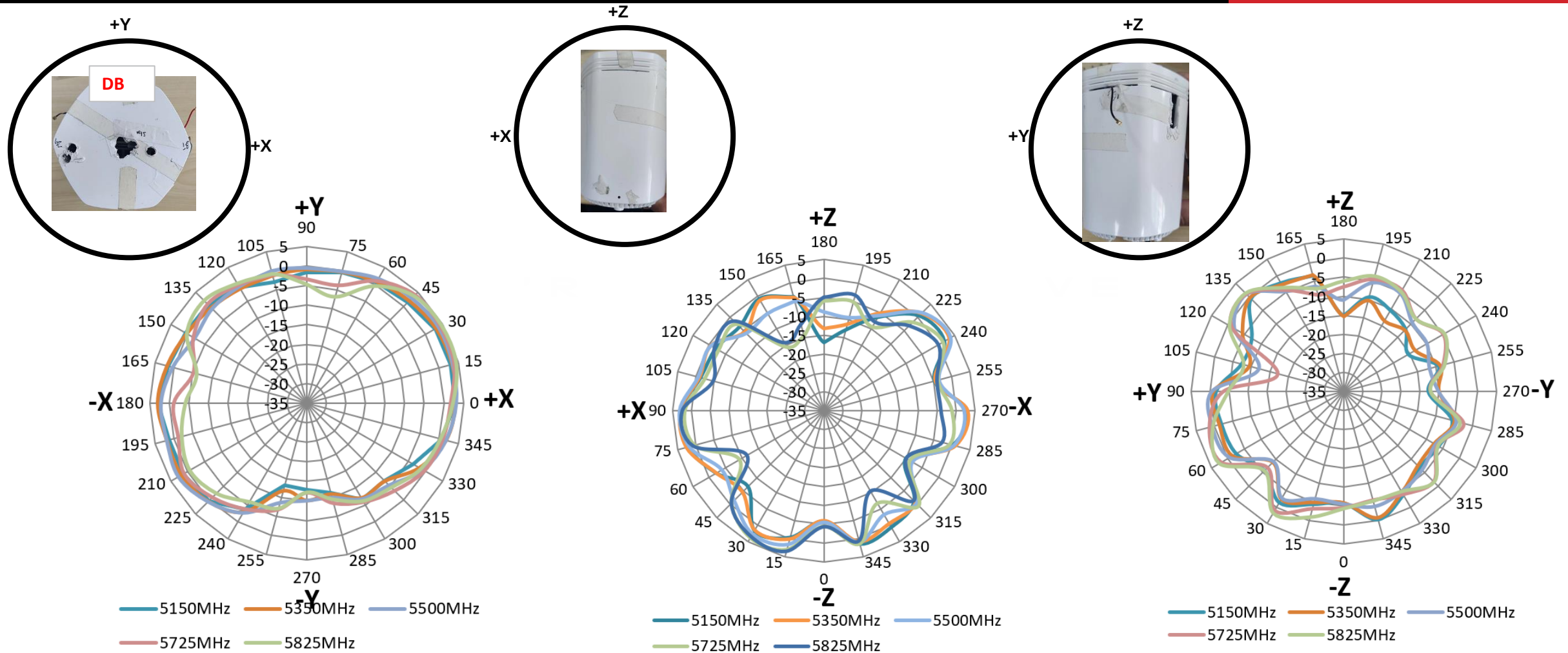
BT ANTENNA POWER SUM GAIN PATTERNS



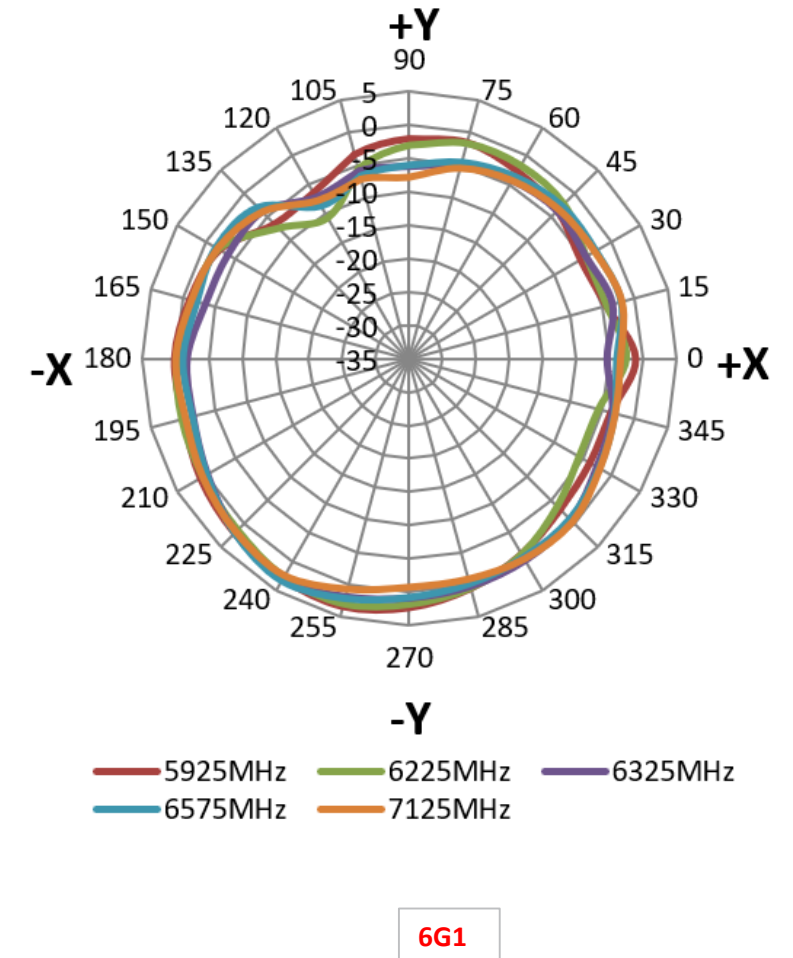
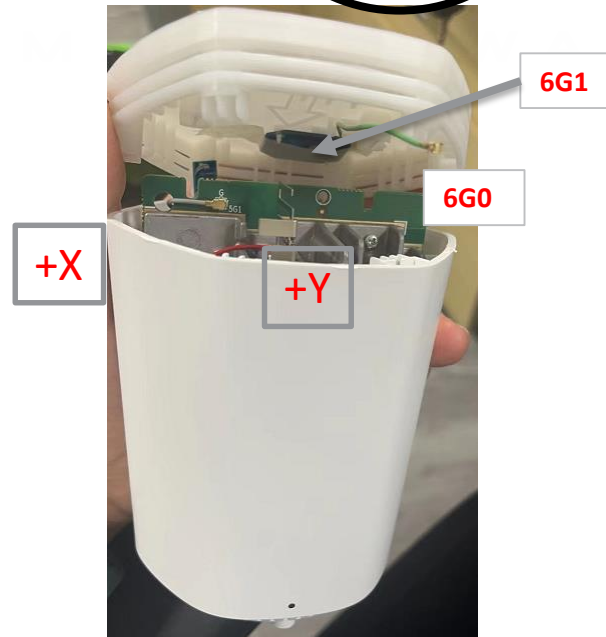
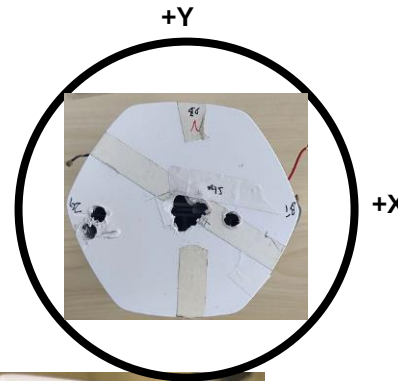
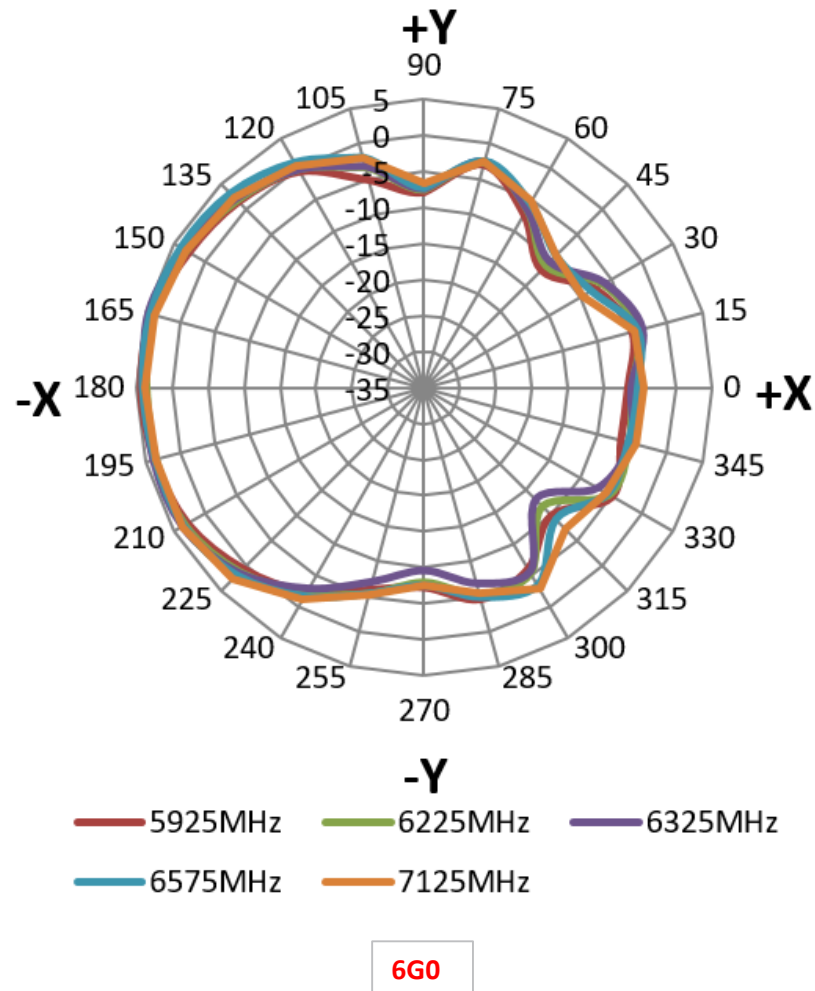
DB_2G BAND ANTENNA POWER SUM GAIN PATTERNS



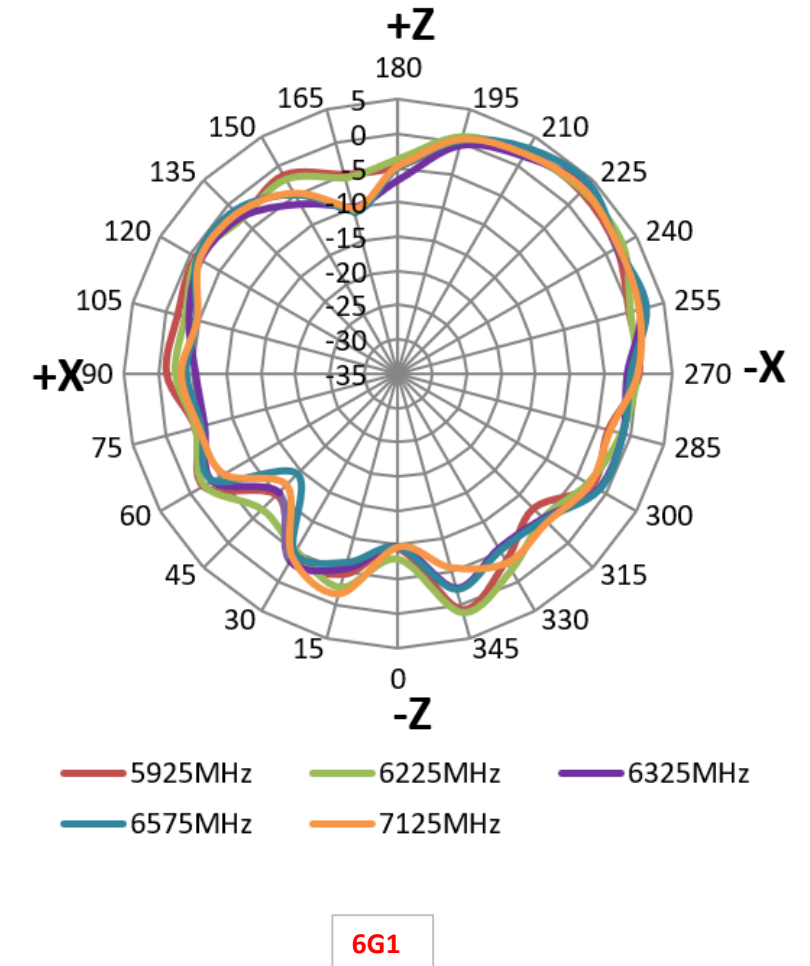
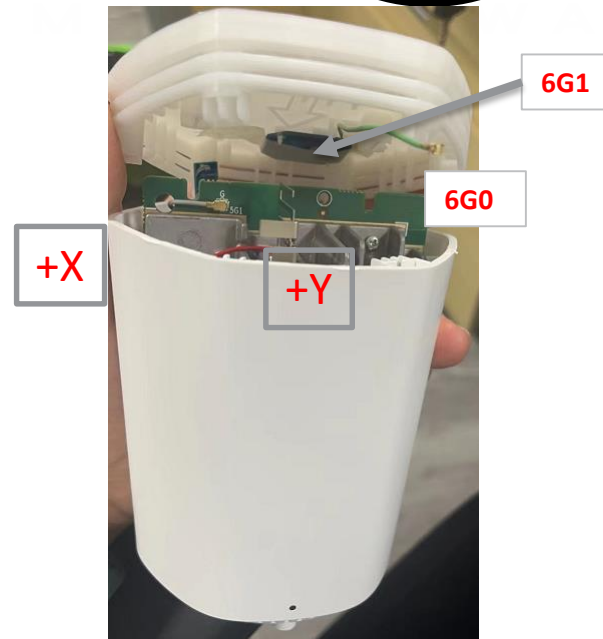
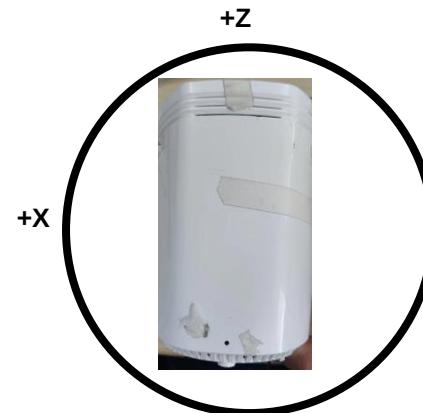
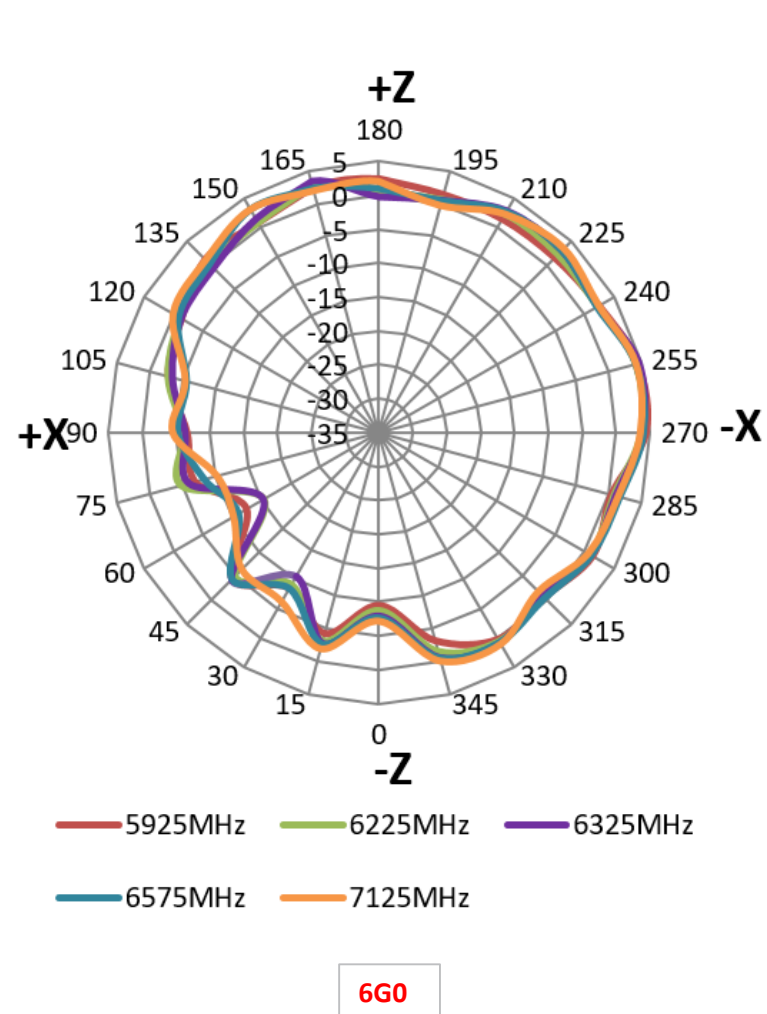
DB_5G BAND ANTENNA POWER SUM GAIN PATTERNS



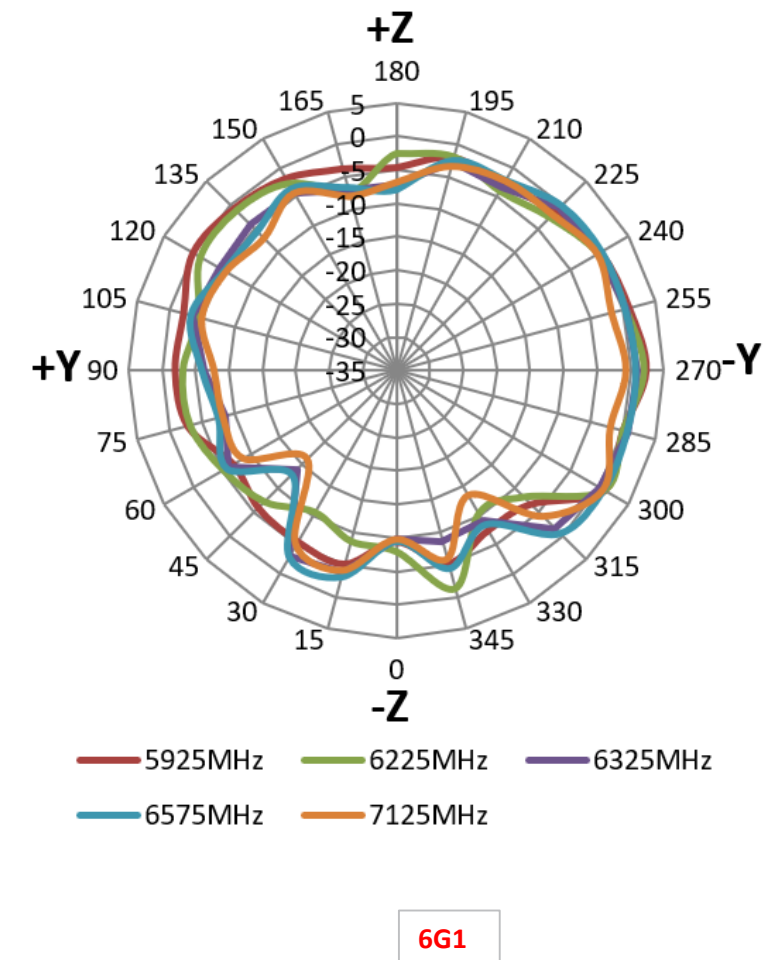
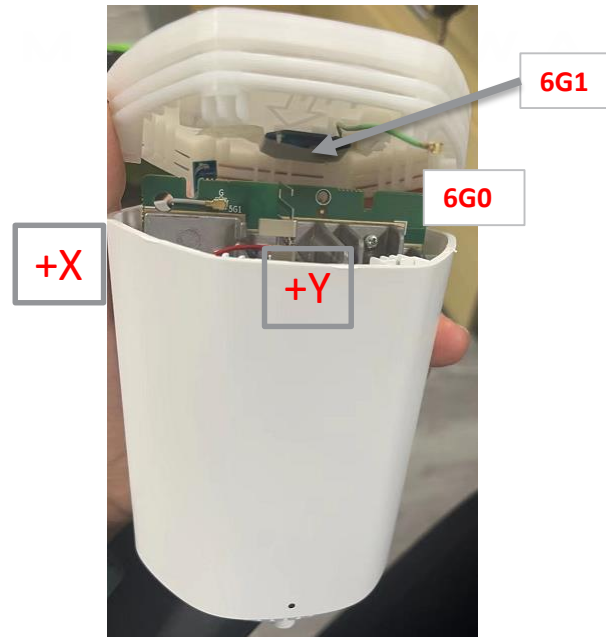
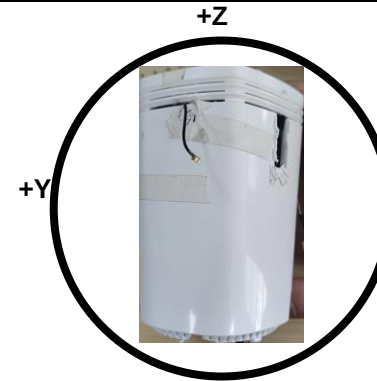
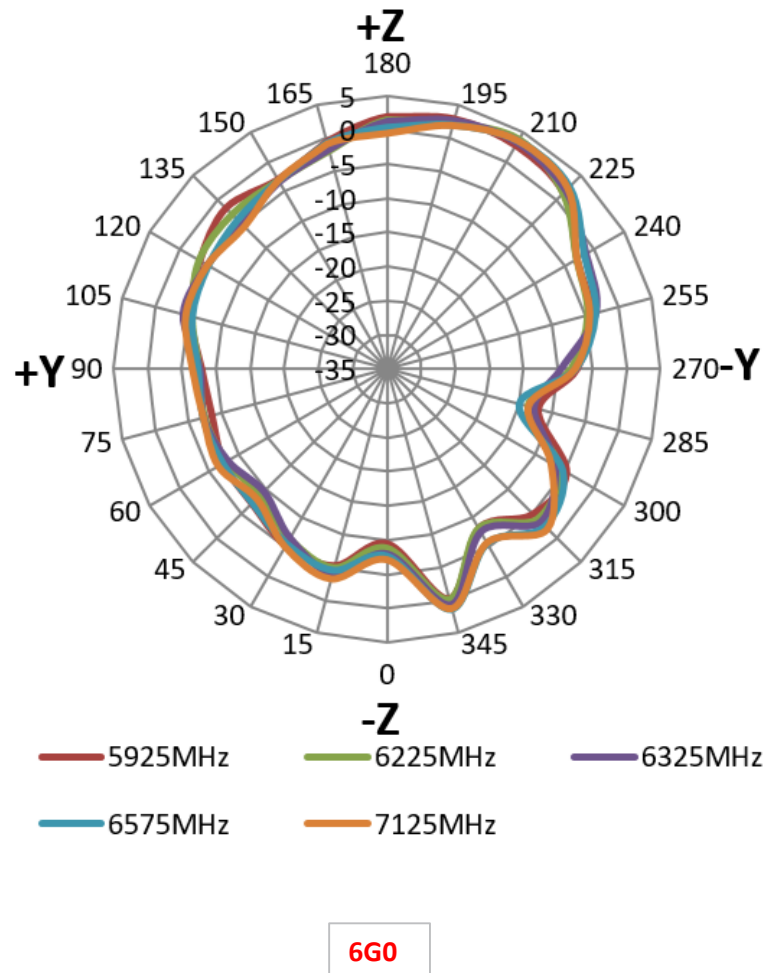
AZIMUTH CUT - POWER SUM 6G ANTENNAS



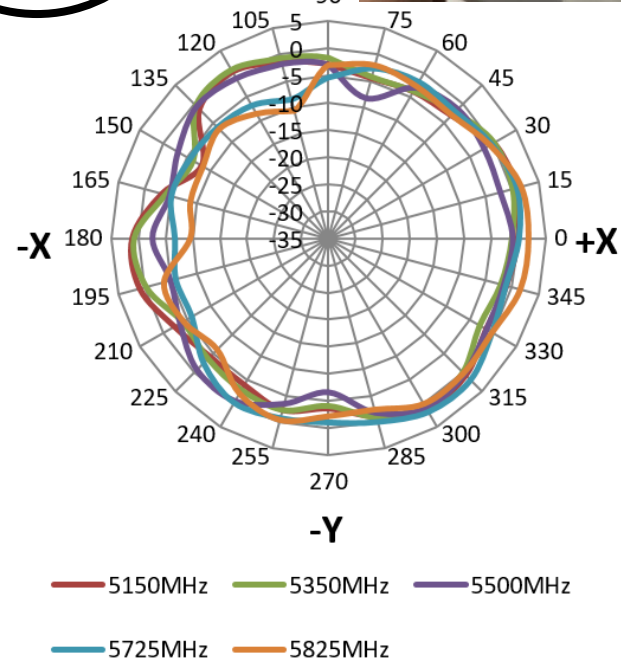
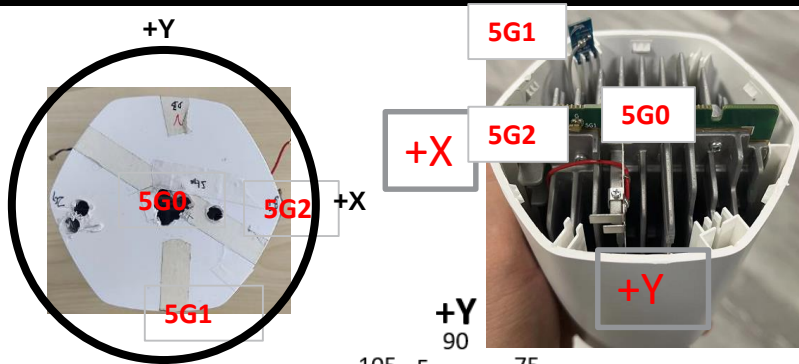
ELEVATION CUT XZ - POWER SUM 6G ANTENNAS



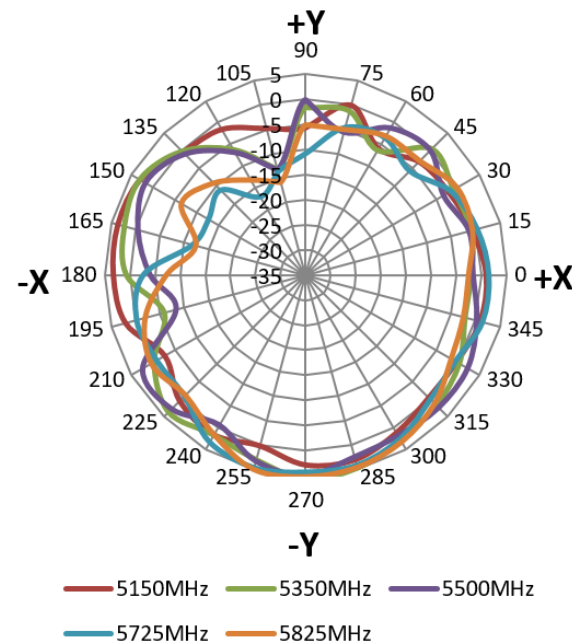
ELEVATION CUT YZ - POWER SUM 6G ANTENNAS



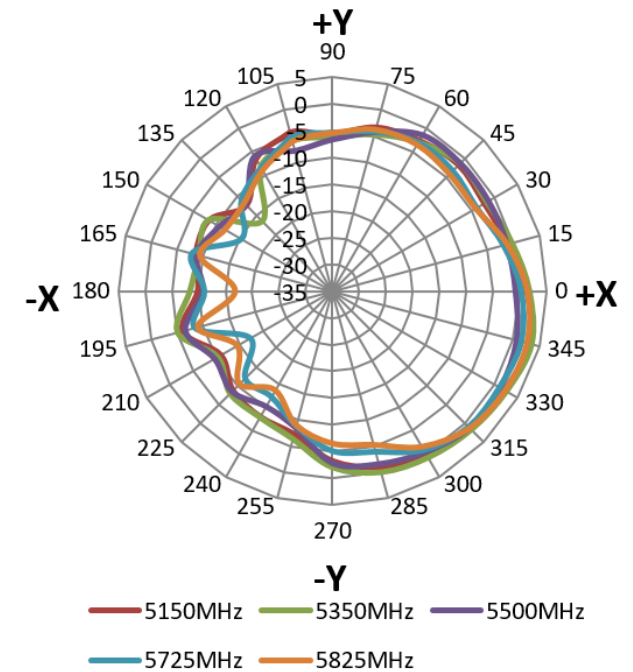
AZIMUTH CUT - POWER SUM 5G ANTENNAS



5G0

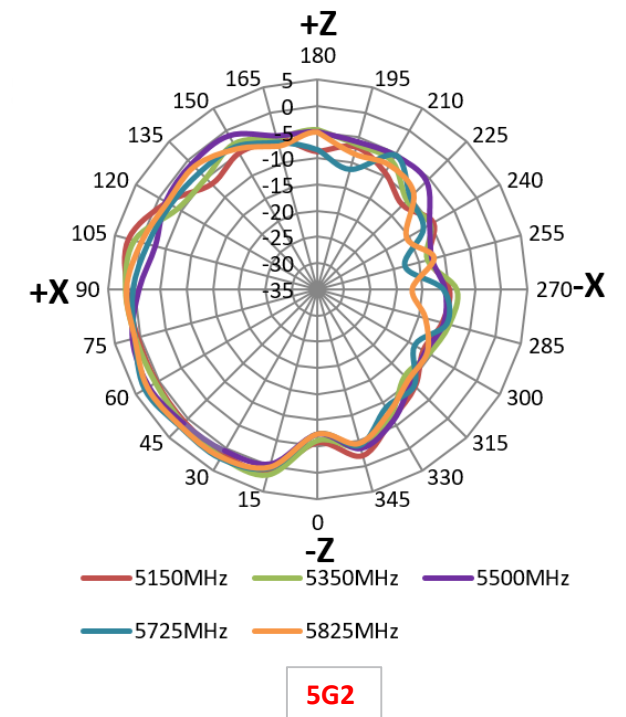
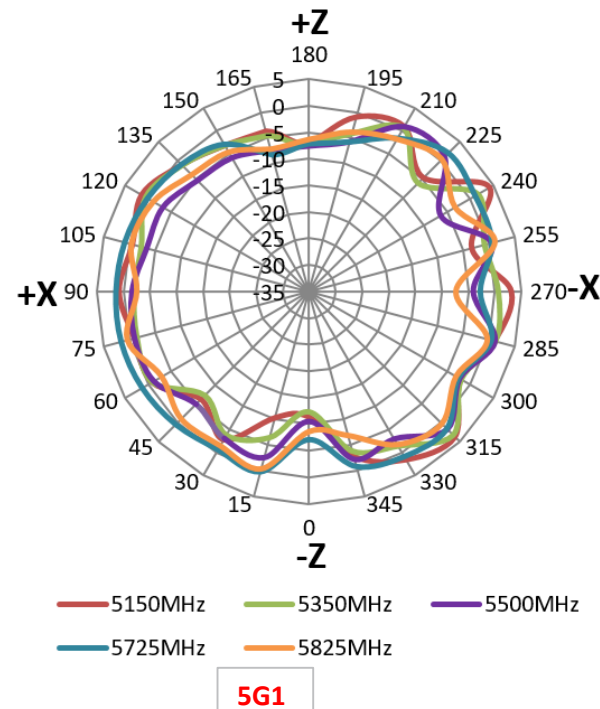
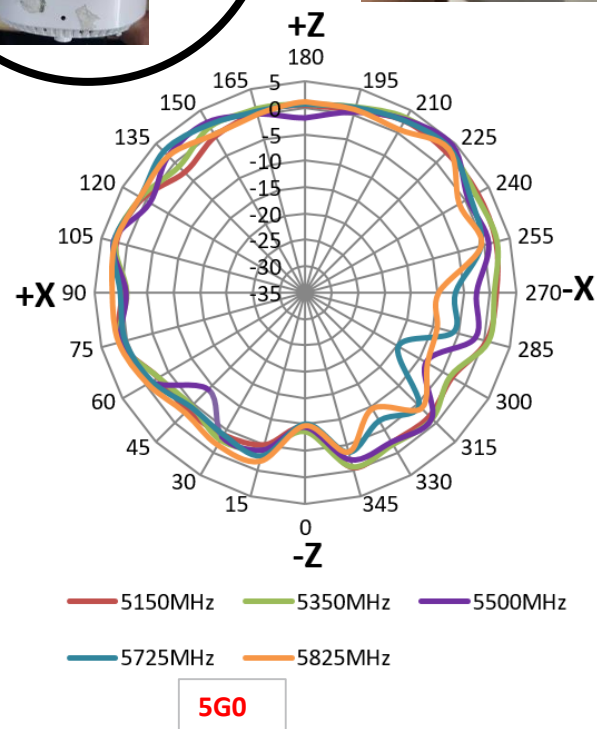


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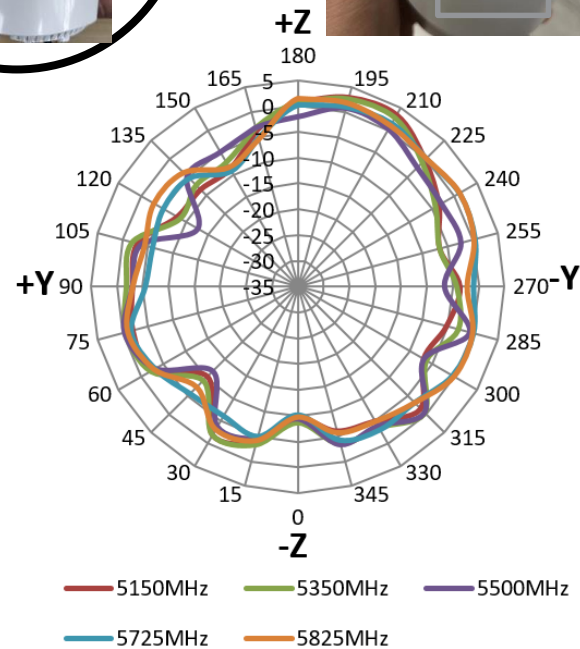
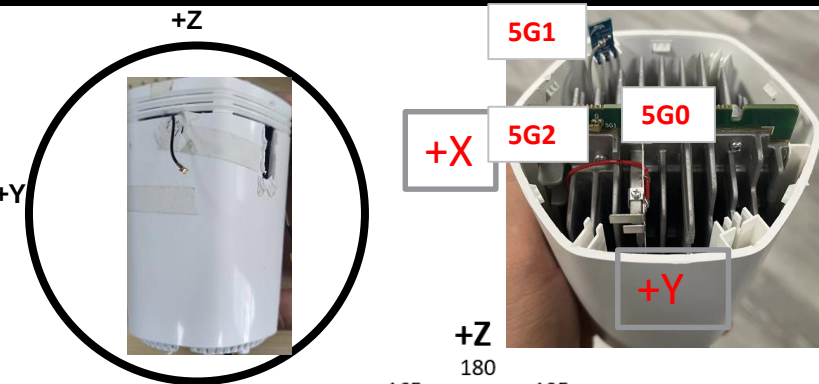


5G2

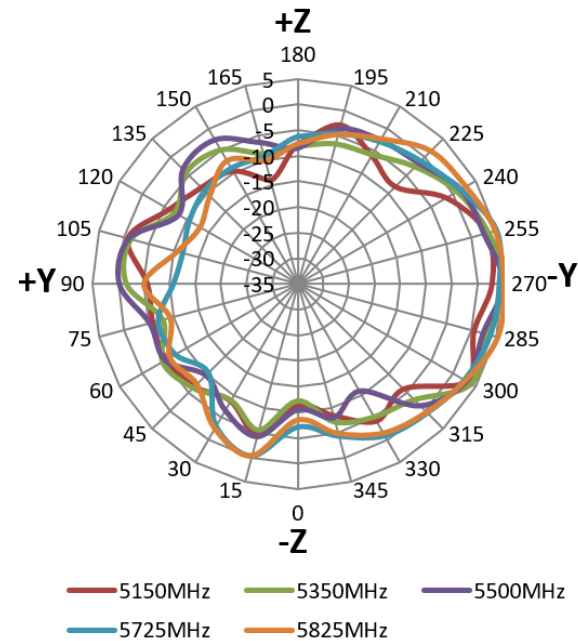
ELEVATION (XZ) CUT - POWER SUM 5G ANTENNAS



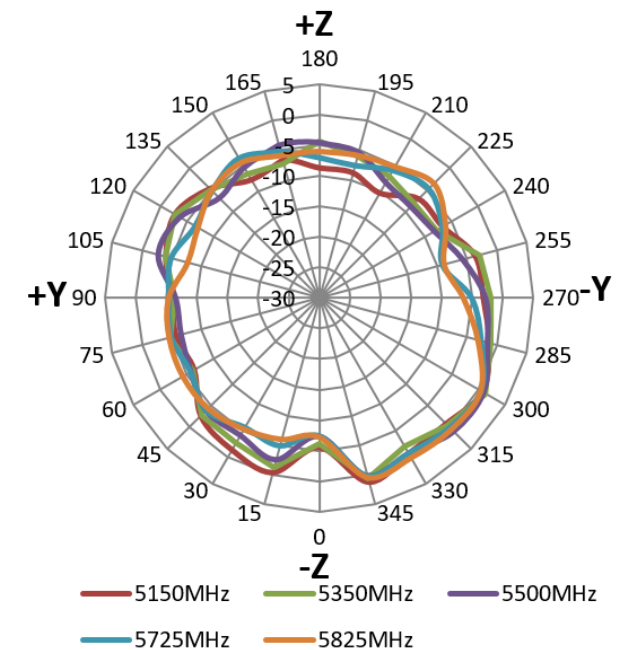
ELEVATION (YZ) CUT - POWER SUM 5G ANTENNAS



5G0

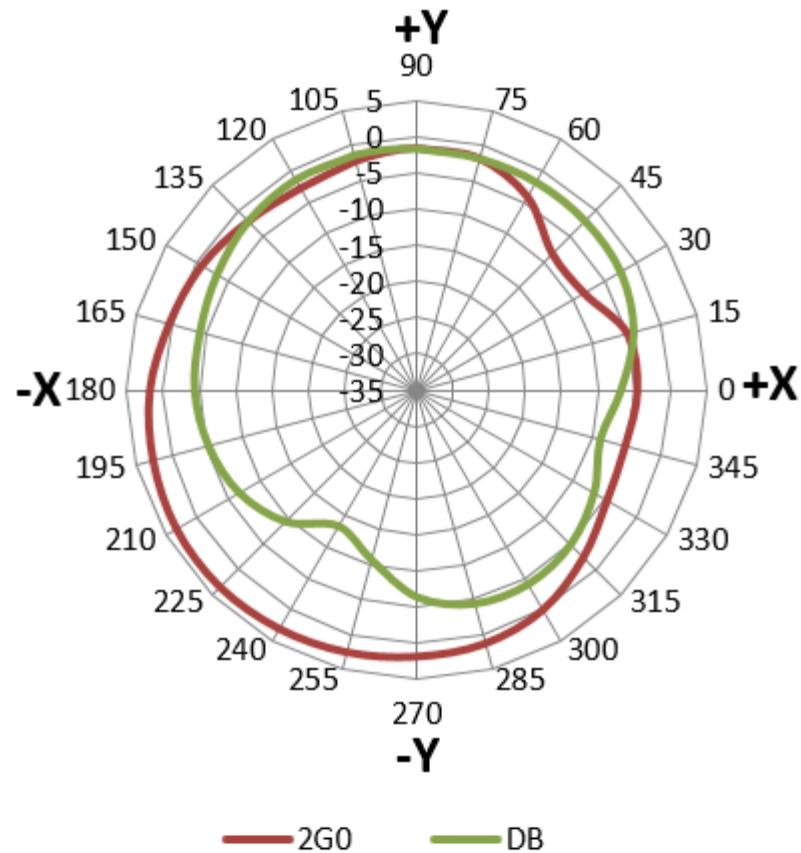


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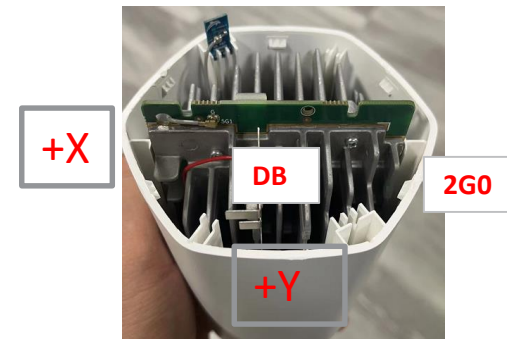
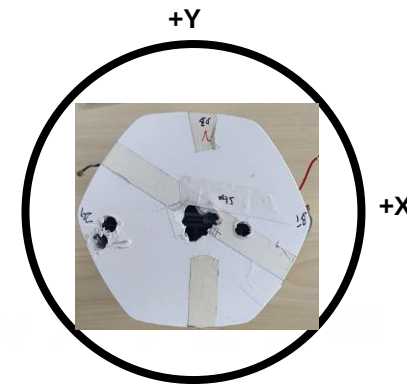


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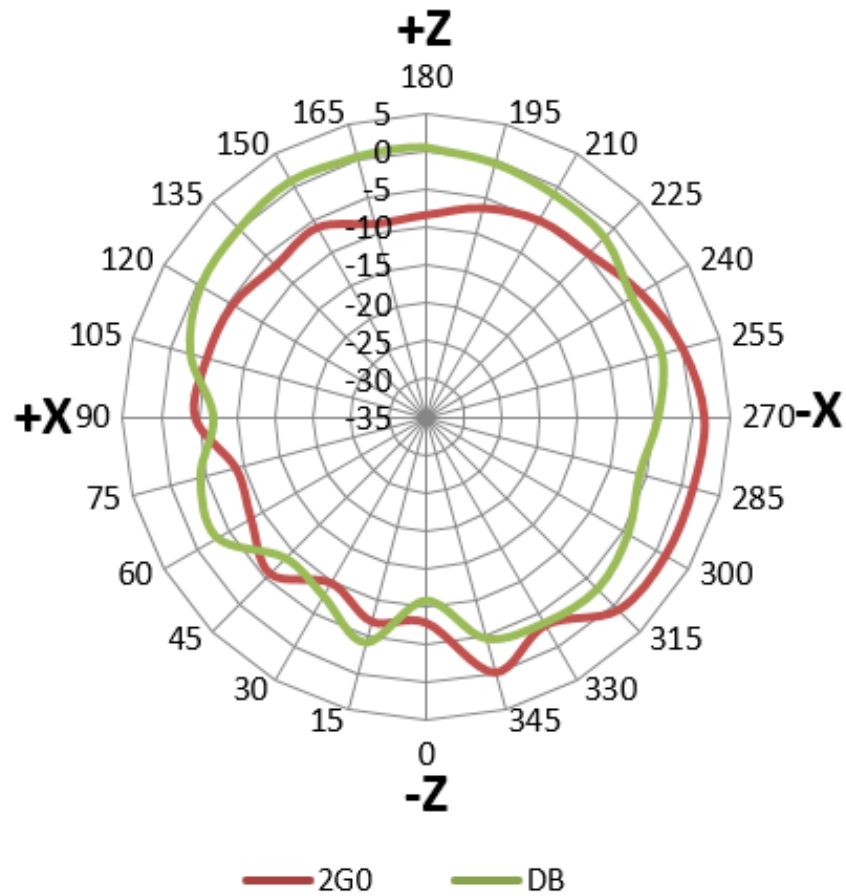
AZIMUTH CUT - POWER SUM SYSTEM COVERAGE – 2.45 GHZ BAND



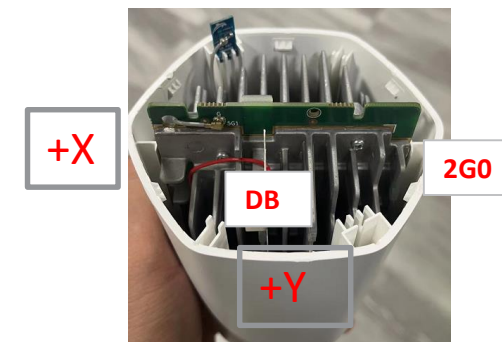
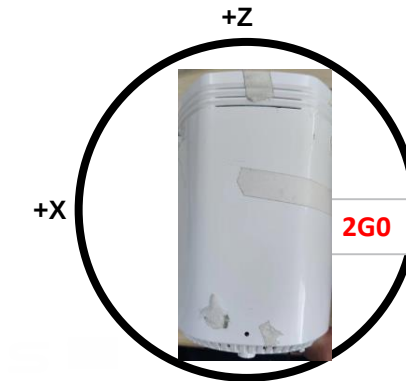
2.45GHz



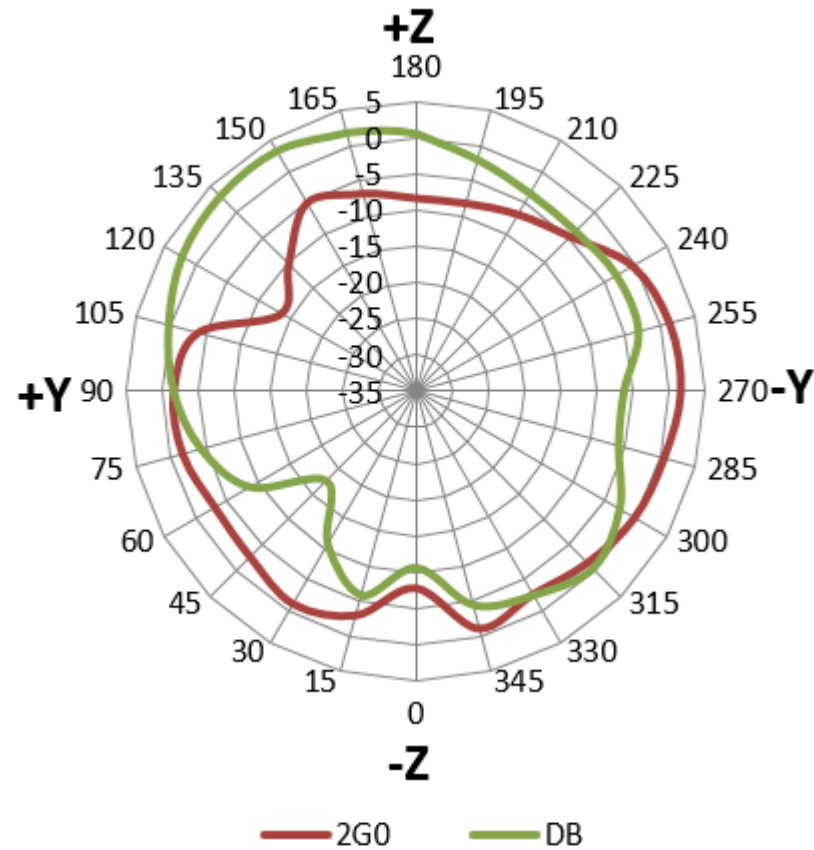
ELEVATION (XZ) CUT - POWER SUM SYSTEM COVERAGE – 2.45 GHZ BAND



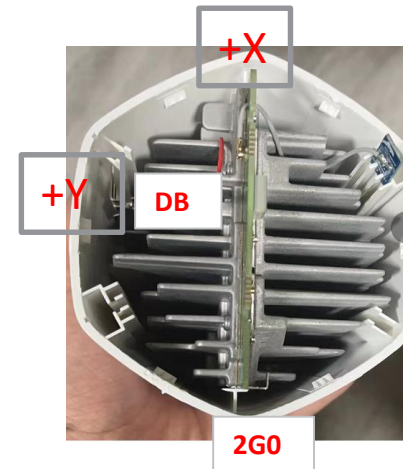
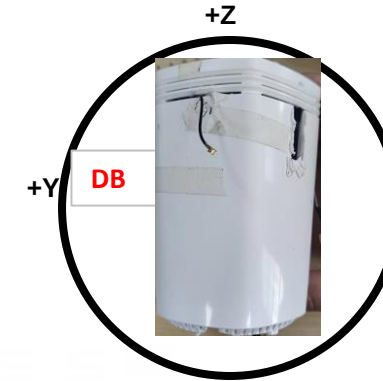
2.45GHz



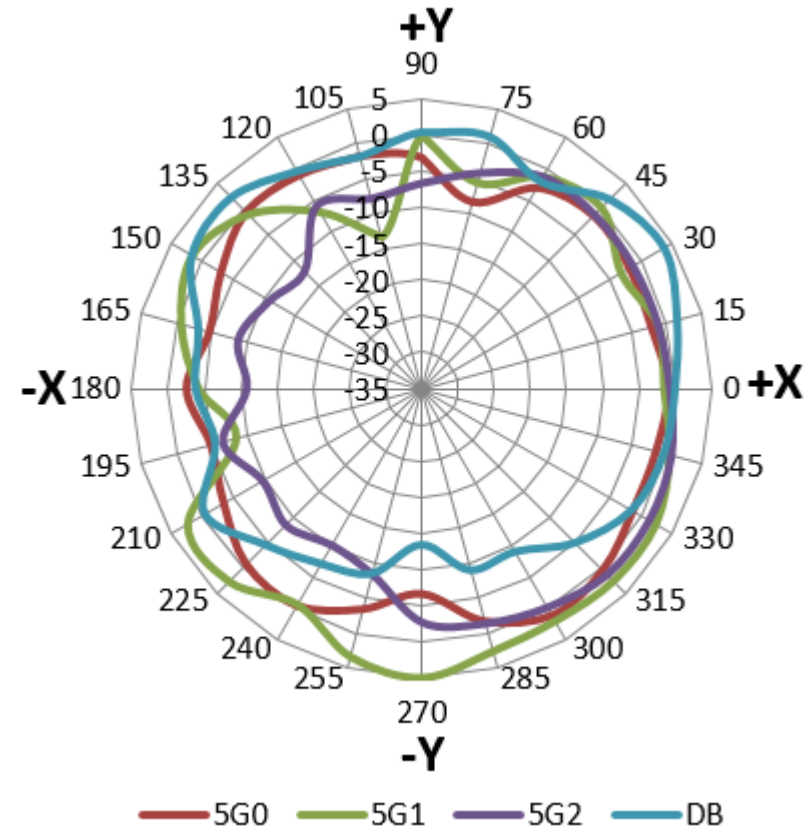
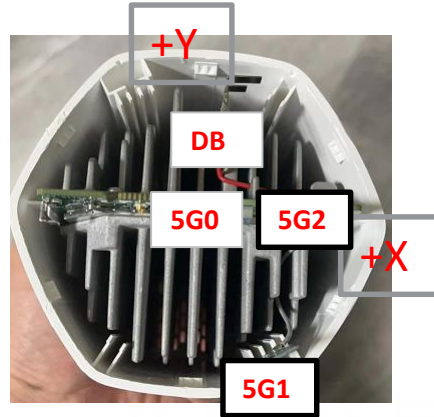
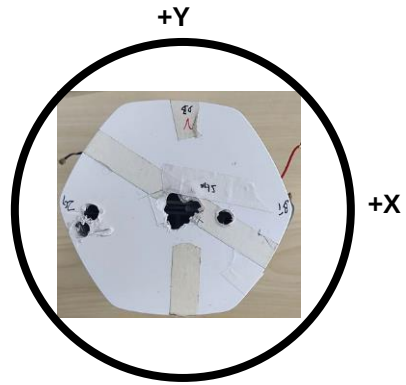
ELEVATION (YZ) CUT - POWER SUM SYSTEM COVERAGE – 2.45 GHZ BAND



2.45GHz

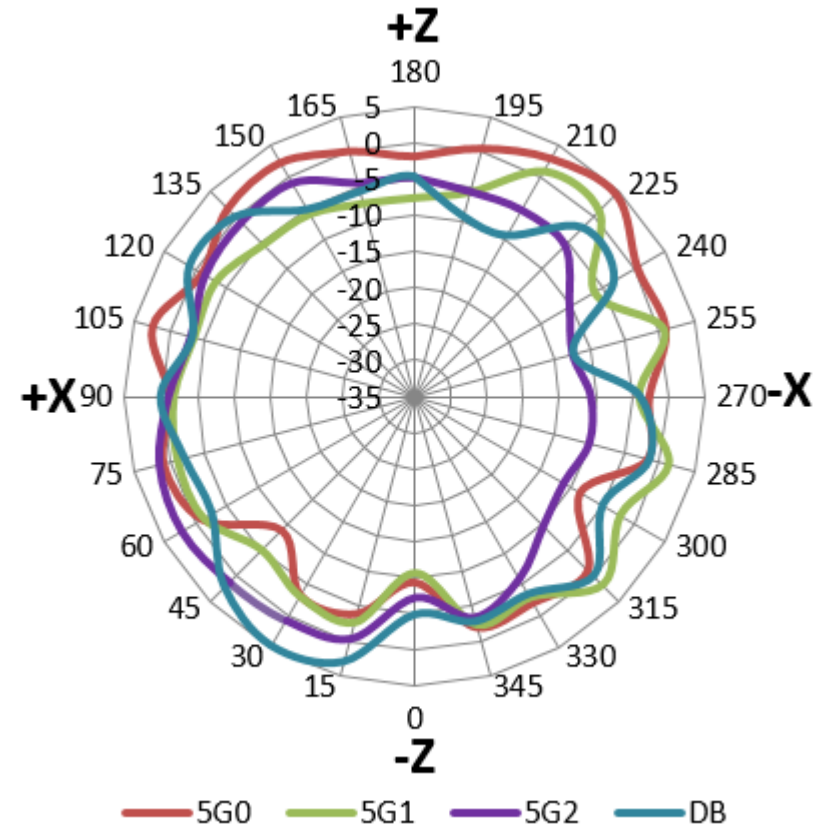
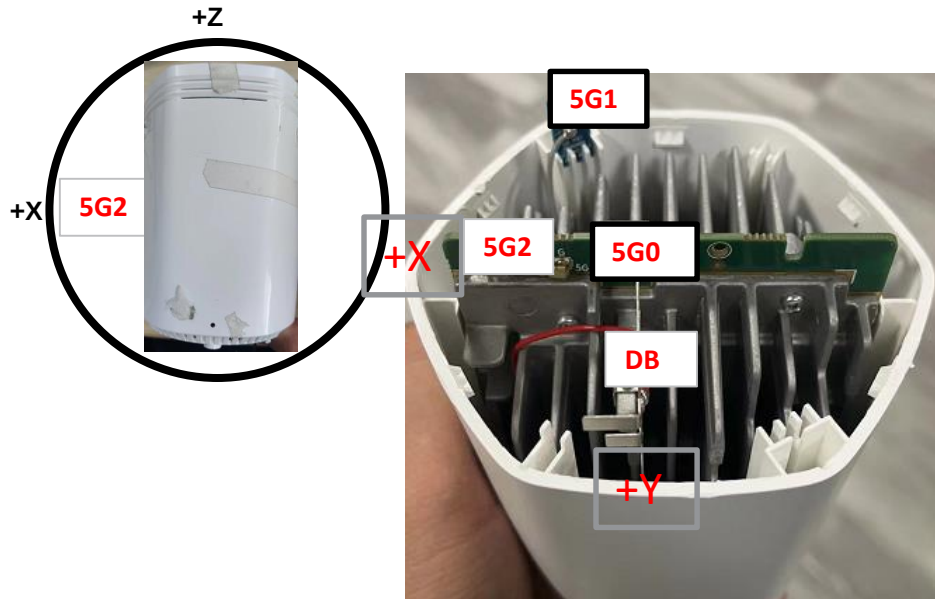


AZIMUTH CUT - POWER SUM SYSTEM COVERAGE – 5GHZ BAND



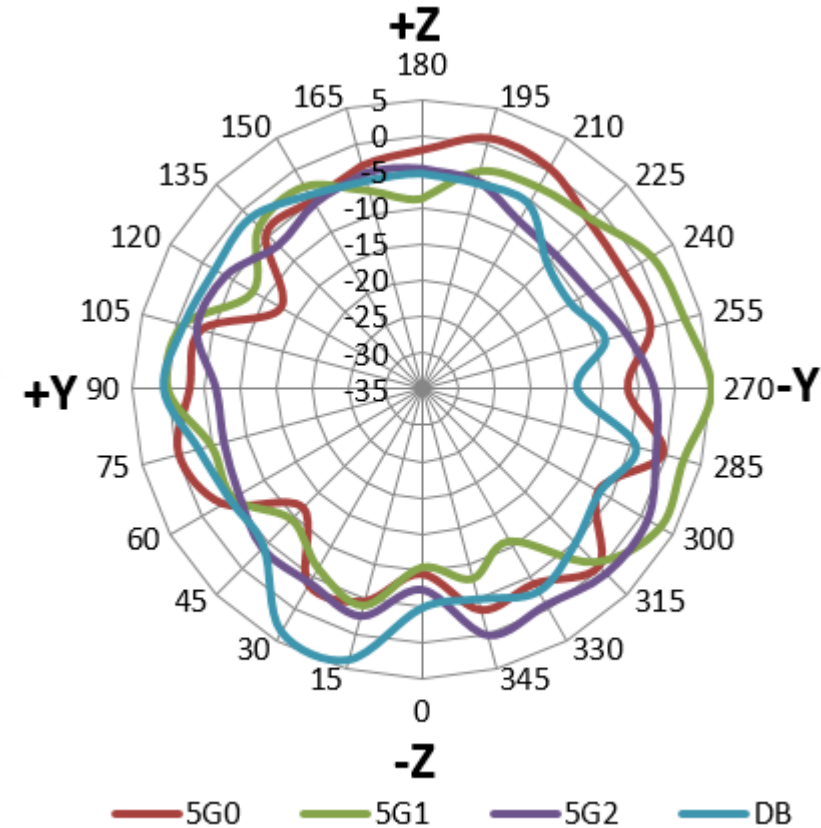
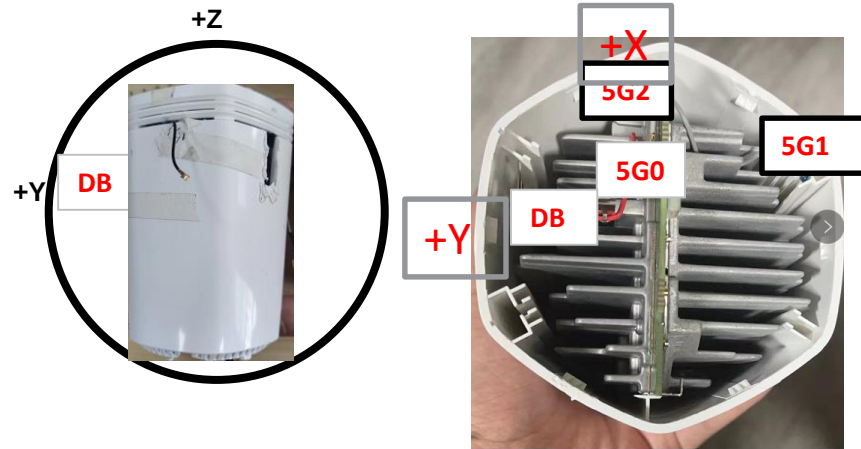
5GHz -5.5GHz

ELEVATION (XZ) CUT - POWER SUM SYSTEM COVERAGE – 5GHZ BAND



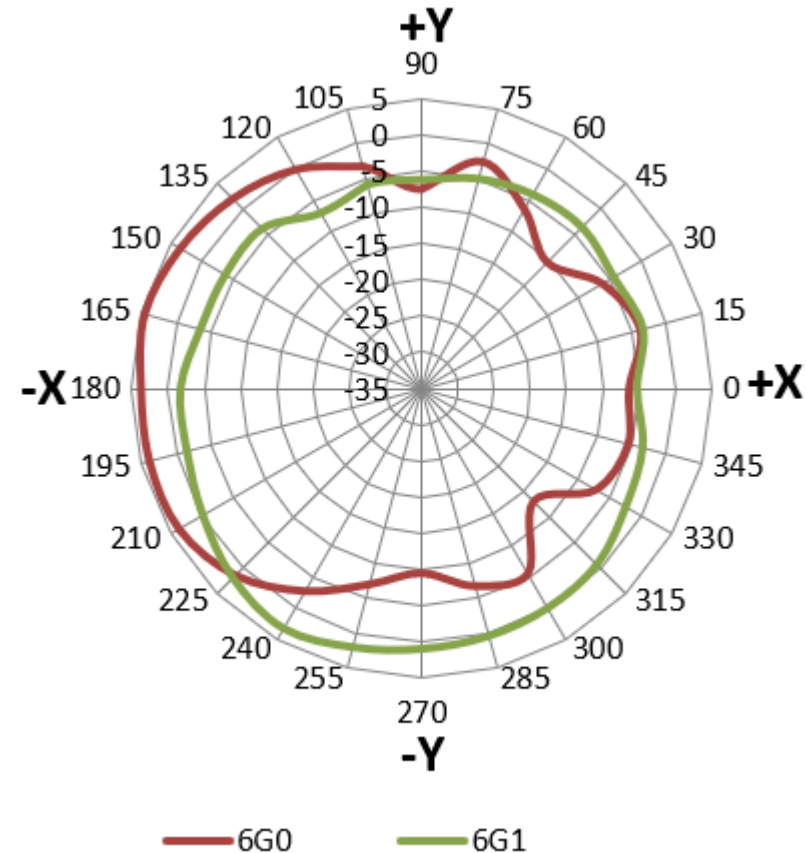
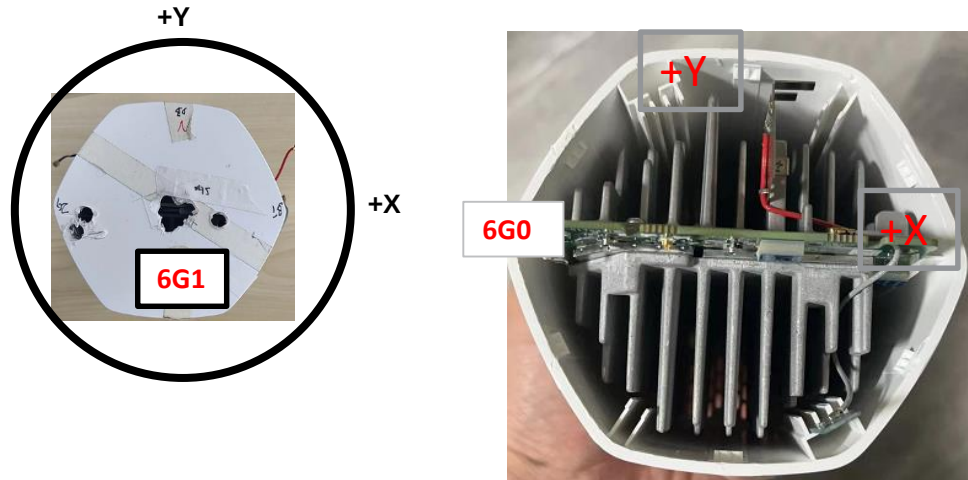
5GHz -5.5 GHz

ELEVATION (YZ) CUT - POWER SUM SYSTEM COVERAGE - 5GHZ BAND



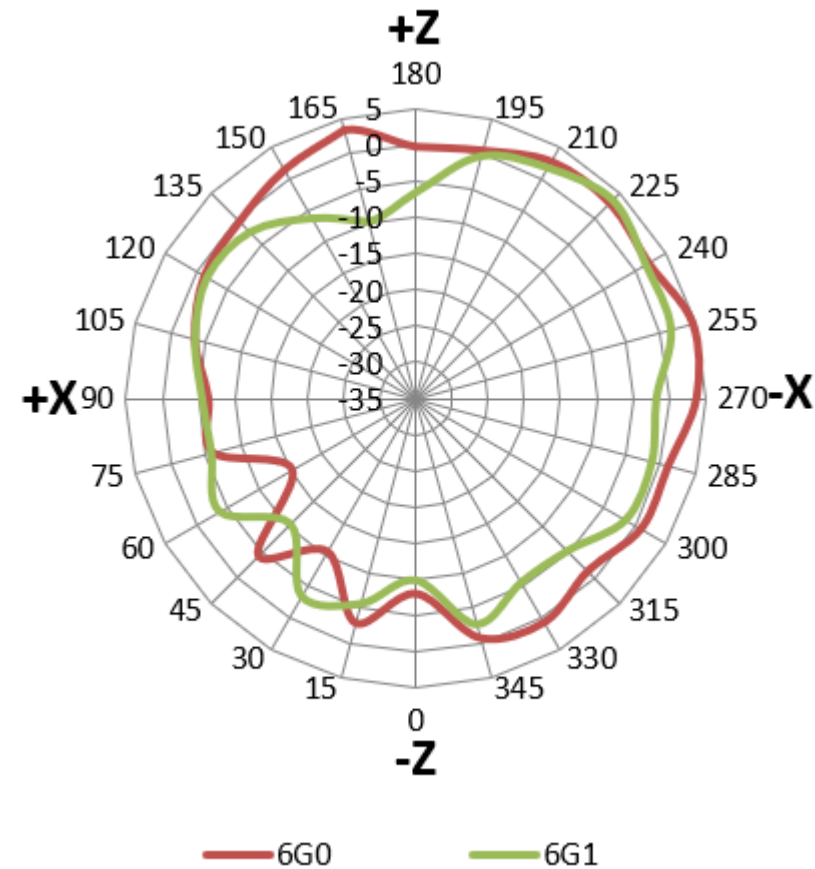
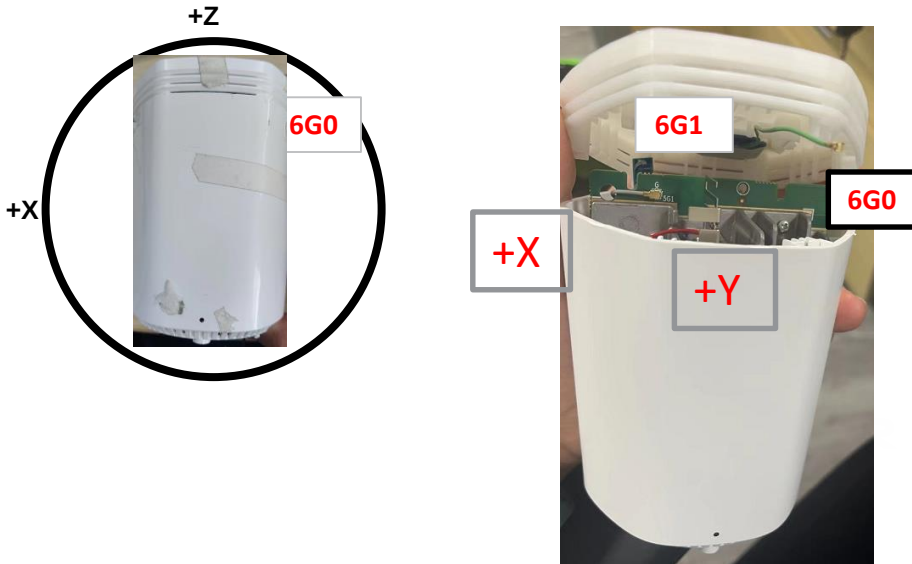
5GHz -5.5 GHz

AZIMUTH CUT - POWER SUM SYSTEM COVERAGE – 6GHZ BAND



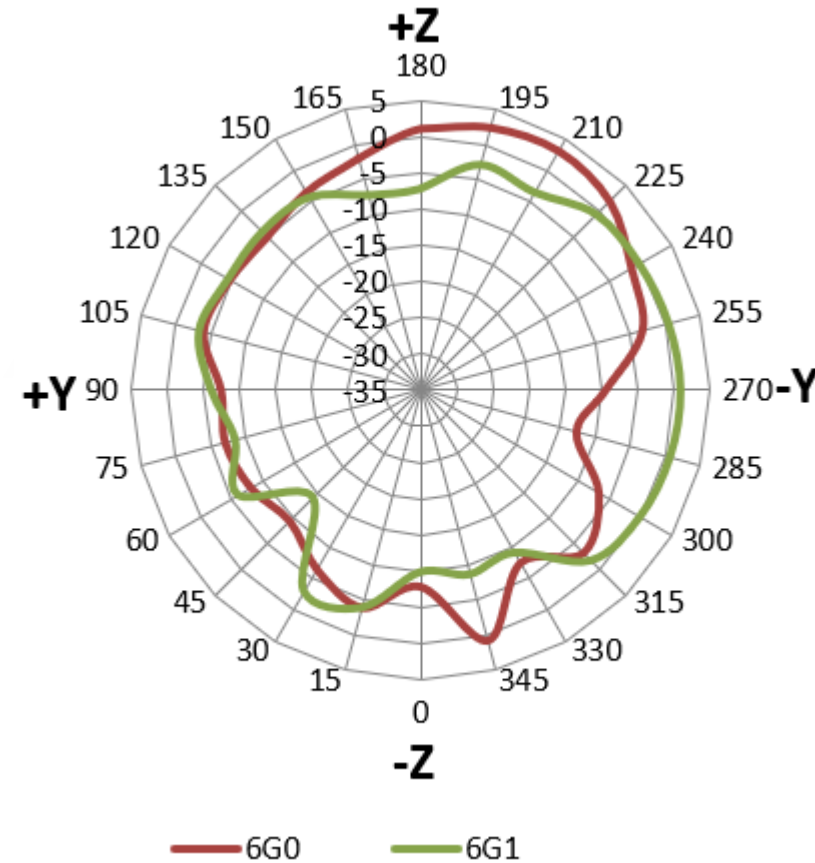
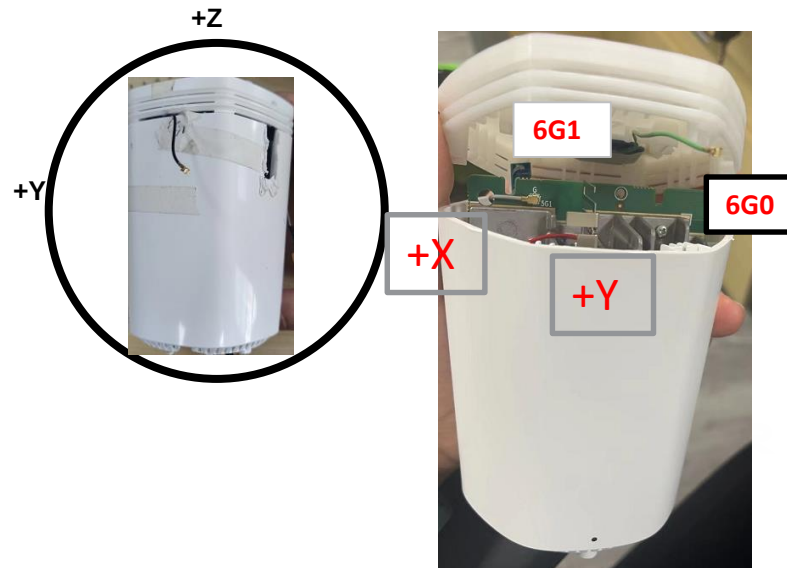
6GHz -6.325GHz

ELEVATION (XZ) CUT - POWER SUM SYSTEM COVERAGE - 6GHZ BAND



6GHz -6.325GHz

ELEVATION (YZ) CUT - POWER SUM SYSTEM COVERAGE - 6GHZ BAND



6GHz -6.325 GHz

ANTENNA PERFORMANCE SUMMARY

Antenna	Worst Case Return Loss (dB) 2.45 GHz Band	Worst Case Return Loss (dB) 6 GHz Band	Worst Case Return Loss (dB) 5 GHz Band	Average Efficiency 2.45 GHz Band (%)	Average Efficiency 6 GHz Band (%)	Average Efficiency 5 GHz Band (%)	Highest Peak Gain 2.45 GHz Band (dBi)	Highest Peak Gain 6 GHz Band (dBi)	Highest Peak Gain 5 GHz Band (dBi)	Mutual Isolation (dB) 2.45 GHz Band			Mutual Isolation (dB) 6 GHz Band		Mutual Isolation (dB) 5 GHz Band			
										2G0	BT	DB	6G0	6G1	5G0	5G1	5G2	DB
2G0	-10.6			62.2			3.8				-36		-35.5	-48.3	-42.8	-43.9	-54	-57.4
DB	-10.2		-9.4	61.5		64.7	4.1		5.03	-25.4			-38.6	-40.8	-21.6	-37.7	-32.1	
6G0		-11.7			66.6			4.7		-34.4	-47.5				-26.2	-27.8	-30.2	-26.8
6G1		-10.9			62.4			4.2		-55.4	-61.7		-25.0		-23.5	-34.3	-39.9	-38.6
5G0			-11.7			64.7			4.6				-33.8	-23.4				
5G1			-13.5			71.8			6.2				-36.1	-29.9	-19.4			
5G2			-7.6			48.1			4.8				-44.3	-41.2	-23.5	-24.9		
BT	-6			38.3			0.9					-30	-51.9	-50	-42.8	-39.2	-24	-43.6

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Thank You!

We Look Forward To Working Together



APPENDIX DB-2400MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
2400	Polarization-H	Amplitude	0	-15.589	-15.483	-15.206	-14.853	-14.527	-14.302	-14.223	-14.302	-14.527	-14.853	-15.206	-15.483
			15	-9.53	-12.477	-15.205	-16.063	-15.451	-15.098	-17.546	-23.462	-19.64	-12.533	-8.488	-6.272
			30	-9.019	-12.966	-14.496	-12.617	-12.549	-13.26	-14.686	-19.629	-24.118	-12.825	-8.007	-5.463
			45	-10.12	-13.559	-11.357	-8.367	-7.987	-10.918	-16.665	-15.98	-12.717	-9.078	-6.408	-5.138
			60	-8.342	-8.653	-7.434	-6.779	-7.527	-10.112	-17.227	-15.286	-9.125	-6.702	-5.513	-5.25
			75	-7.055	-6.925	-5.961	-4.654	-4.752	-7.063	-13.378	-18.199	-9.118	-5.314	-4.061	-4.148
			90	-8.319	-8.003	-5.845	-4.211	-4.56	-7.277	-12.823	-20.971	-10.76	-5.466	-3.112	-2.987
			105	-9.884	-8.217	-5.114	-3.215	-3.193	-5.387	-10.642	-16.983	-10.462	-5.219	-2.997	-2.683
			120	-6.642	-4.71	-2.578	-1.751	-2.445	-4.769	-8.559	-12.128	-9.854	-6.567	-3.879	-2.624
			135	-4.605	-3.472	-2.604	-2.724	-4.152	-7.618	-14.132	-13.465	-8.474	-5.69	-3.801	-2.802
			150	-2.785	-2.032	-1.774	-2.346	-3.772	-6.32	-10.356	-13.769	-10.431	-6.636	-4.178	-2.76
			165	-2.65	-2.457	-2.658	-3.561	-5.138	-8.081	-13.807	-18.642	-10.724	-6.527	-4.062	-2.84
			180	-2.044	-2.066	-2.781	-4.216	-6.935	-11.599	-21.581	-17.042	-9.394	-5.803	-3.557	-2.521
			195	-1.543	-1.706	-2.555	-4.388	-7.18	-12.267	-32.395	-15.105	-9.258	-6.314	-4.408	-3.224
			210	-3.163	-3.339	-4.335	-6.487	-10.207	-17.347	-19.796	-12.361	-9.005	-7.183	-5.743	-4.789
			225	-2.422	-2.804	-3.755	-5.613	-9.285	-17.133	-17.26	-10.022	-7.03	-5.881	-5.461	-5.216
			240	-2.447	-3.258	-4.798	-7.276	-11.129	-19.324	-15.117	-8.548	-6.218	-5.898	-6.689	-7.652
			255	-4.07	-6.099	-8.811	-12.105	-15.086	-15.192	-12.673	-9.561	-8.382	-9.244	-10.146	-10.165
			270	-3.751	-5.95	-9.315	-14.003	-16.143	-15.274	-14.1	-13.218	-15.273	-17.444	-12.905	-9.393
			285	-4.328	-6.307	-9.545	-15.582	-34.968	-18.196	-15.405	-16.833	-20.589	-14.266	-9.355	-7.474
			300	-5.326	-5.992	-6.985	-10.067	-16.04	-18.128	-16.983	-16.36	-12.44	-8.253	-6.197	-6.384
			315	-5.209	-5.603	-6.671	-7.675	-9.713	-16.182	-21.829	-13.583	-9.35	-6.982	-6.003	-7.017
			330	-4.576	-4.552	-5.809	-8.031	-11.342	-16.768	-25.346	-14.476	-9.55	-7.344	-6.524	-7.199
			345	-5.686	-5.403	-5.967	-7.584	-10.674	-18.714	-22.141	-11.937	-8.147	-6.688	-6.683	-7.835
			360	-15.589	-15.483	-15.206	-14.853	-14.527	-14.302	-14.223	-14.302	-14.527	-14.853	-15.206	-15.483

DB-2400MHZ

Polarization-V	Amplitude	0	-14.223	-14.302	-14.527	-14.853	-15.206	-15.483	-15.589	-15.483	-15.206	-14.853	-14.527	-14.302
	15		-6.131	-5.381	-5.333	-5.531	-5.752	-5.848	-5.977	-6.236	-6.412	-6.282	-6.62	-7.616
	30		-7.58	-7.832	-7.622	-7.64	-8.163	-8.75	-9.296	-9.901	-10.109	-10.183	-10.221	-9.833
	45		-10.628	-10.626	-12.487	-16.355	-15.606	-14.25	-17.374	-29.326	-26.387	-21.425	-21.926	-18.907
	60		-19.233	-23.852	-20.413	-13.542	-10.687	-9.553	-9.193	-9.314	-8.361	-6.743	-5.831	-6.872
	75		-9.918	-14.113	-11.539	-7.244	-5.065	-3.809	-3.557	-4.069	-4.268	-2.927	-1.645	-1.725
	90		-10.23	-9.941	-6.941	-4.352	-2.306	-0.816	-0.462	-0.842	-1.325	-1.134	-0.808	-0.77
	105		-7.333	-5.873	-3.57	-1.212	0.499	1.657	2.171	1.862	0.843	-0.245	-1.33	-2.246
	120		-4.983	-3.8	-2.591	-0.93	1.126	2.712	3.309	3.135	2.601	1.764	0.66	-1.007
	135		-6.322	-4.624	-2.666	-0.58	1.184	2.484	3.162	3.239	2.956	2.175	1.026	-0.856
	150		-9.907	-7.01	-3.781	-1.191	0.705	1.969	2.54	2.472	1.973	0.828	-0.597	-3.033
	165		-18.239	-10.982	-6.635	-3.894	-1.906	-0.69	-0.062	-0.088	-0.636	-1.969	-3.547	-6.567
	180		-28.109	-15.475	-8.608	-5.285	-3.334	-2.242	-1.846	-2.037	-3.104	-4.512	-7.348	-12.173
	195		-10.476	-18.105	-12.618	-7.719	-5.43	-4.342	-4.189	-4.794	-5.954	-7.361	-10.148	-14.096
	210		-9.156	-14.612	-14.905	-10.944	-8.474	-7.159	-7.065	-8.218	-10.151	-12.698	-13.967	-13.741
	225		-2.939	-6.05	-9.03	-9.893	-7.99	-5.947	-4.913	-5.13	-6.628	-8.934	-9.728	-8.604
	240		-3.623	-5.433	-6.396	-6.341	-5.182	-4.272	-4.06	-4.492	-5.442	-6.464	-6.659	-5.886
	255		-3.729	-4.711	-5.562	-5.842	-5.402	-4.991	-4.949	-5.135	-5.323	-5.46	-6.059	-7.207
	270		-2.213	-3.462	-4.973	-6.228	-6.823	-7.472	-8.413	-8.691	-7.616	-6.387	-5.949	-7.227
	285		-4.126	-6.221	-7.643	-7.466	-6.331	-5.899	-6.853	-8.534	-9.49	-8.123	-6.984	-7.43
	300		-11.112	-13.819	-9.58	-5.944	-4.2	-3.517	-3.326	-4.179	-6.239	-9.154	-11.157	-13.16
	315		-11.787	-7.516	-6.422	-6.41	-5.106	-3.765	-3.767	-4.713	-5.903	-7.222	-8.863	-10.606
	330		-9.064	-7.564	-6.287	-6.152	-7.714	-11.297	-14.479	-12.159	-9.081	-7.475	-6.932	-6.933
	345		-7.858	-10.108	-13.342	-18.102	-29.121	-26.871	-20.566	-21.803	-29.559	-15.813	-10.422	-7.14
	360		-14.223	-14.302	-14.527	-14.853	-15.206	-15.483	-15.589	-15.483	-15.206	-14.853	-14.527	-14.302

[illegible]

DB-2450MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
2450M	Polarization-H	Amplitude	0	-15.716	-15.619	-15.367	-15.044	-14.744	-14.536	-14.463	-14.536	-14.744	-15.044	-15.367	-15.619
			15	-10.562	-12.97	-14.66	-15.562	-16.454	-17.23	-19.201	-26.165	-21.099	-13.316	-8.974	-6.485
			30	-10.397	-14.323	-13.93	-12.244	-12.736	-13.624	-14.491	-18.958	-26.669	-13.214	-8.018	-5.36
			45	-11.51	-15.127	-11.217	-8.231	-8.119	-11.397	-17.304	-15.467	-12.356	-9.116	-6.44	-4.843
			60	-8.635	-8.719	-7.164	-6.315	-7.142	-10.066	-18.459	-14.769	-8.36	-6.154	-5.345	-5.384
			75	-7.716	-7.379	-6.113	-4.803	-4.797	-6.848	-13.315	-20.409	-8.846	-4.809	-3.752	-4.421
			90	-8.887	-8.138	-5.903	-4.209	-4.403	-6.877	-12.321	-21.576	-11.043	-5.403	-2.904	-2.787
			105	-9.708	-7.398	-4.564	-3.146	-3.444	-5.874	-11.709	-17.492	-10.392	-5.334	-3.017	-2.474
			120	-6.373	-4.196	-2.056	-1.317	-2.188	-4.71	-8.985	-12.582	-9.384	-6.105	-3.588	-2.499
			135	-3.998	-2.879	-2.123	-2.415	-4.001	-7.695	-15.125	-13.766	-8.244	-5.369	-3.612	-2.803
			150	-2.619	-1.897	-1.681	-2.289	-3.797	-6.497	-10.923	-14.128	-10.008	-6.266	-3.974	-2.772
			165	-2.326	-2.108	-2.38	-3.414	-5.266	-8.673	-14.949	-16.004	-9.332	-5.72	-3.601	-2.644
			180	-2.158	-2.218	-2.895	-4.278	-6.95	-11.572	-21.614	-16.338	-9.032	-5.617	-3.393	-2.424
			195	-1.672	-1.916	-2.798	-4.669	-7.467	-12.605	-32.312	-14.741	-8.989	-6.037	-4.162	-3
			210	-3.106	-3.283	-4.204	-6.174	-9.534	-15.981	-22.193	-13.023	-8.992	-6.897	-5.434	-4.506
			225	-2.182	-2.456	-3.236	-4.847	-8.144	-15.128	-19.708	-10.688	-7.12	-5.675	-5.176	-4.854
			240	-2.45	-3.341	-4.837	-7.196	-10.7	-17.284	-14.278	-8.338	-6.121	-5.839	-6.629	-7.371
			255	-3.78	-5.733	-8.288	-11.254	-13.729	-14.69	-12.975	-9.693	-8.204	-8.806	-9.702	-9.864
			270	-3.923	-6.424	-9.78	-14.591	-16.957	-15.267	-13.739	-12.879	-14.737	-17.307	-13.757	-10.185
			285	-4.662	-6.393	-8.966	-14.268	-33.89	-17.126	-14.127	-15.392	-19.034	-14.215	-9.713	-8.501
			300	-5.093	-5.425	-6.438	-9.503	-15.463	-18.726	-16.439	-15.029	-12.135	-8.279	-6.444	-7.081
			315	-5.216	-5.499	-6.365	-7.308	-9.259	-15.002	-22.418	-13.681	-9.299	-7.1	-6.249	-7.492
			330	-5.06	-4.798	-5.725	-7.675	-10.998	-17.042	-26.489	-14.809	-9.979	-7.975	-7.326	-8.216
			345	-5.496	-5.186	-5.526	-6.901	-9.791	-17.24	-23.921	-12.583	-8.577	-7.106	-7.22	-8.63
			360	-15.716	-15.619	-15.367	-15.044	-14.744	-14.536	-14.463	-14.536	-14.744	-15.044	-15.367	-15.619

DB-2450MHZ

Polarization-V	Amplitud e	0	-14.463	-14.536	-14.744	-15.044	-15.367	-15.619	-15.716	-15.619	-15.367	-15.044	-14.744	-14.536
	15	-6.245	-5.57	-5.631	-6.058	-6.576	-6.836	-6.883	-6.836	-6.664	-6.441	-6.533	-7.538	
	30	-7.675	-8.097	-8.038	-8.059	-8.573	-9.193	-9.968	-10.688	-11.024	-10.973	-10.835	-10.217	
	45	-11.091	-11.146	-13.122	-17.505	-16.761	-15.265	-19.085	-32.724	-25.661	-21.443	-20.479	-18.064	
	60	-19.11	-23.21	-18.874	-12.796	-10.275	-9.365	-9.157	-9.22	-8.156	-6.317	-5.306	-6.29	
	75	-9.578	-13.24	-10.418	-7.112	-5.519	-4.425	-4.1	-4.625	-4.879	-3.388	-1.859	-1.758	
	90	-9.669	-9.43	-6.821	-4.44	-2.355	-0.732	-0.313	-0.709	-1.409	-1.473	-1.102	-0.769	
	105	-7.125	-5.683	-3.319	-1.036	0.603	1.736	2.257	1.938	0.882	-0.345	-1.456	-2.252	
	120	-4.985	-3.594	-2.288	-0.617	1.364	2.897	3.483	3.3	2.699	1.778	0.597	-1.134	
	135	-6.633	-4.852	-2.596	-0.349	1.418	2.654	3.253	3.25	2.891	2.113	0.993	-0.907	
	150	-9.796	-6.791	-3.554	-1.018	0.851	2.059	2.576	2.451	1.922	0.814	-0.594	-3.005	
	165	-16.215	-9.648	-5.705	-3.186	-1.359	-0.228	0.298	0.229	-0.389	-1.8	-3.463	-6.469	
	180	-30.558	-14.471	-8.11	-4.881	-3.064	-2.112	-1.844	-2.144	-3.286	-4.777	-7.696	-13.126	
	195	-10.532	-17.963	-12.654	-7.865	-5.659	-4.588	-4.464	-5.025	-6.078	-7.471	-10.382	-14.655	
	210	-9.018	-15.386	-15.765	-10.928	-8.388	-7.194	-7.279	-8.488	-10.386	-12.567	-13.509	-13.286	
	225	-2.941	-6.623	-9.762	-9.464	-7.312	-5.601	-4.823	-5.186	-6.85	-9.256	-9.766	-8.382	
	240	-3.549	-5.641	-6.512	-6.141	-5.086	-4.238	-4.01	-4.445	-5.448	-6.548	-6.756	-5.867	
	255	-3.667	-4.848	-5.558	-5.532	-5.057	-4.731	-4.709	-4.814	-4.863	-4.934	-5.55	-6.724	
	270	-2.121	-3.485	-5.163	-6.02	-6.315	-7.187	-8.591	-9.003	-7.648	-6.032	-5.342	-6.557	
	285	-3.662	-5.91	-7.409	-7.138	-6.14	-5.685	-6.434	-8.007	-9.32	-8.476	-7.354	-7.682	
	300	-9.947	-13.578	-9.692	-6.093	-4.288	-3.356	-2.915	-3.616	-5.453	-7.983	-10.2	-13.485	
	315	-12.006	-7.836	-6.459	-6.205	-5.03	-4.004	-4.133	-4.981	-5.947	-7.068	-8.615	-10.558	
	330	-8.971	-7.665	-6.676	-6.819	-8.677	-12.84	-15.929	-12.03	-8.633	-7.043	-6.638	-6.923	
	345	-7.565	-9.872	-13.238	-17.246	-25.037	-36.14	-24.794	-27.621	-21.834	-13.435	-9.469	-6.958	
	360	-14.463	-14.536	-14.744	-15.044	-15.367	-15.619	-15.716	-15.619	-15.367	-15.044	-14.744	-14.536	

[illegible]

DB-2500MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
2500	Polarization-H	Amplitude	0	-15.921	-15.823	-15.565	-15.237	-14.932	-14.721	-14.646	-14.721	-14.932	-15.237	-15.565	-15.823
			15	-11.453	-13.327	-14.214	-14.891	-16.33	-18.071	-19.664	-27.069	-23.651	-14.713	-9.927	-6.957
			30	-12.162	-14.902	-13.553	-12.925	-14.452	-15.361	-15.031	-18.425	-25.027	-13.93	-8.513	-5.498
			45	-12.895	-15.418	-10.641	-8.111	-8.466	-12.302	-18.588	-15.319	-12.183	-9.52	-7.071	-5.205
			60	-9.365	-9.111	-6.918	-5.749	-6.615	-9.852	-19.288	-14.707	-8.097	-5.723	-4.86	-5.053
			75	-8.73	-7.91	-6.185	-4.926	-4.959	-6.811	-12.969	-22.551	-8.961	-4.562	-3.338	-4.239
			90	-9.663	-8.503	-6.16	-4.403	-4.508	-6.926	-12.47	-21.751	-11.21	-5.545	-3.056	-2.963
			105	-9.349	-6.711	-4.325	-3.365	-3.954	-6.575	-12.995	-17.601	-10.357	-5.714	-3.316	-2.61
			120	-5.946	-3.551	-1.592	-1.068	-2.156	-4.878	-9.619	-13.505	-9.519	-6.022	-3.488	-2.416
			135	-3.642	-2.55	-1.985	-2.462	-4.235	-8.097	-16.192	-14.221	-8.444	-5.529	-3.765	-2.936
			150	-2.44	-1.703	-1.521	-2.183	-3.798	-6.614	-11.445	-14.847	-10.001	-6.259	-3.99	-2.867
			165	-2.125	-1.944	-2.392	-3.644	-5.842	-9.917	-18.275	-15.276	-8.616	-5.311	-3.398	-2.558
			180	-2.25	-2.432	-3.168	-4.626	-7.344	-12.036	-22.27	-15.6	-8.802	-5.592	-3.5	-2.519
			195	-1.662	-2.068	-3.072	-5.017	-8.04	-13.559	-31.027	-13.836	-8.463	-5.64	-3.818	-2.694
			210	-3.248	-3.417	-4.299	-6.185	-9.461	-16.064	-25.509	-13.079	-8.73	-6.604	-5.232	-4.299
			225	-2.49	-2.716	-3.376	-4.833	-7.934	-14.797	-24.329	-11.465	-7.397	-5.802	-5.197	-4.69
			240	-2.381	-3.403	-4.926	-7.066	-9.978	-15.301	-14.788	-8.819	-6.415	-5.997	-6.584	-6.819
			255	-3.526	-5.267	-7.544	-10.211	-12.772	-15.131	-14.277	-10.449	-8.458	-8.754	-9.634	-10.022
			270	-4.088	-6.89	-10.552	-15.781	-17.806	-15.267	-13.715	-12.958	-14.461	-17.419	-14.608	-11.259
			285	-5.411	-7.059	-9.048	-13.773	-34.718	-16.798	-13.769	-14.988	-18.286	-14.59	-10.68	-9.912
			300	-5.424	-5.67	-6.617	-9.335	-14.618	-20.57	-17.488	-14.601	-12.048	-8.727	-7.251	-8.166
			315	-4.937	-5.201	-6.138	-7.249	-9.179	-13.688	-21.522	-14.463	-9.623	-7.296	-6.589	-8.169
			330	-5.553	-5.172	-5.896	-7.843	-11.513	-18.455	-29.444	-15.91	-10.901	-8.848	-8.208	-9.308
			345	-5.099	-4.772	-5.101	-6.588	-9.852	-17.477	-23.866	-13.648	-9.655	-7.993	-8.03	-9.554
			360	-15.921	-15.823	-15.565	-15.237	-14.932	-14.721	-14.646	-14.721	-14.932	-15.237	-15.565	-15.823

DB-2500MHZ

Polarization-V	Amplitude	0	-14.646	-14.721	-14.932	-15.237	-15.565	-15.823	-15.921	-15.823	-15.565	-15.237	-14.932	-14.721
	15		-6.522	-6.081	-6.245	-6.784	-7.334	-7.524	-7.292	-6.845	-6.365	-6.27	-6.357	-7.399
	30		-8.004	-8.725	-8.868	-8.863	-9.261	-9.789	-10.532	-11.184	-11.503	-11.181	-10.598	-9.693
	45		-11.738	-11.894	-13.817	-18.436	-18.111	-16.758	-21.537	-35.372	-26.546	-22.562	-20.818	-17.556
	60		-20.09	-23.57	-17.645	-12.508	-10.25	-9.367	-9.305	-9.518	-8.552	-6.383	-5.135	-5.984
	75		-9.378	-12.003	-9.854	-7.38	-6.086	-4.948	-4.434	-4.993	-5.427	-3.977	-2.189	-1.857
	90		-9.532	-9.359	-6.958	-4.702	-2.591	-0.86	-0.327	-0.679	-1.57	-2.003	-1.674	-1.079
	105		-7.274	-5.725	-3.423	-1.31	0.24	1.365	1.943	1.688	0.671	-0.639	-1.775	-2.509
	120		-5.245	-3.621	-2.152	-0.489	1.394	2.877	3.469	3.276	2.608	1.634	0.411	-1.32
	135		-7.138	-5.059	-2.485	-0.21	1.489	2.641	3.144	3.076	2.609	1.798	0.711	-1.077
	150		-10.043	-6.842	-3.625	-1.111	0.709	1.882	2.349	2.167	1.591	0.514	-0.829	-3.127
	165		-14.303	-8.526	-4.905	-2.586	-0.945	0.052	0.485	0.351	-0.314	-1.775	-3.573	-6.7
	180		-31.593	-13.714	-7.928	-4.918	-3.173	-2.267	-2.029	-2.377	-3.567	-5.263	-8.27	-14.355
	195		-10.547	-17.519	-13.393	-8.543	-6.19	-4.964	-4.737	-5.185	-6.224	-7.789	-10.93	-15.418
	210		-8.867	-15.515	-17.508	-11.901	-9.016	-7.721	-7.736	-8.857	-10.584	-12.433	-13.427	-13.228
	225		-3.009	-7.155	-11.457	-10.277	-7.449	-5.754	-5.168	-5.677	-7.336	-9.378	-9.508	-8.429
	240		-3.466	-5.774	-6.843	-6.167	-5.044	-4.284	-4.093	-4.556	-5.583	-6.7	-6.88	-5.821
	255		-3.62	-4.972	-5.823	-5.669	-5.1	-4.681	-4.566	-4.56	-4.503	-4.622	-5.406	-6.86
	270		-2.172	-3.518	-5.632	-6.564	-6.561	-7.342	-8.833	-8.912	-7.115	-5.332	-4.762	-6.202
	285		-3.366	-5.81	-7.568	-7.044	-6.189	-5.994	-6.776	-8.503	-10.436	-9.738	-8.014	-7.676
	300		-9.216	-13.06	-9.745	-6.335	-4.683	-3.678	-3.063	-3.611	-5.325	-7.823	-10.767	-15.559
	315		-12.265	-8.329	-6.648	-5.947	-4.618	-3.701	-3.931	-4.826	-5.738	-6.82	-8.319	-10.375
	330		-8.982	-7.611	-6.765	-7.177	-9.282	-13.17	-13.997	-10.248	-7.607	-6.537	-6.51	-7.228
	345		-7.425	-9.657	-13.133	-17.22	-24.315	-34.205	-34.571	-32.825	-18.172	-12.378	-9.184	-7.301
	360		-14.646	-14.721	-14.932	-15.237	-15.565	-15.823	-15.921	-15.823	-15.565	-15.237	-14.932	-14.721

[illegible]

DB-5150MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5150M	Polarization-H	Amplitude	0	-9.867	-9.802	-9.629	-9.404	-9.19	-9.039	-8.985	-9.039	-9.19	-9.404	-9.629	-9.802
			15	-1.641	-1.643	-0.041	0.656	-1.887	-10.167	-10.008	-5.649	-5.31	-6.34	-9.215	-9.583
			30	-1.385	-2.692	-2.235	-2.322	-3.687	-7.118	-12.475	-5.737	-2.494	-3.138	-8.372	-8.996
			45	-10.752	-12.414	-12.945	-7.764	-5.029	-6.268	-14.295	-15.845	-5.379	-4.412	-13.237	-11.103
			60	-5.072	-7.59	-9.906	-8.158	-6.346	-9.63	-16.925	-5.888	-2.483	-4.142	-9.035	-9.478
			75	-2.548	-4.753	-11.215	-8.717	-6.487	-13.463	-14.224	-4.288	-0.378	-2.594	-10.386	-12.572
			90	-2.909	-4.787	-10.059	-16.611	-8.427	-11.181	-14.737	-6.061	-1.927	-1.438	-6.115	-7.357
			105	-3.647	-4.459	-8.834	-18.839	-7.387	-8.884	-21.605	-6.371	-2.366	-2.153	-8.623	-8.106
			120	-9.605	-7.256	-10.643	-17.43	-29.046	-25.499	-19.464	-11.237	-4.419	-2.787	-7.214	-7.94
			135	-11.158	-9.656	-4.697	-4.98	-5.861	-6.332	-11.241	-16.438	-13.936	-11.158	-10.904	-5.738
			150	-6.365	-7.44	-4.426	-0.885	-0.945	-4.397	-8.063	-12.753	-26.779	-25.82	-25.947	-14.173
			165	-8.448	-8.136	-6.661	-5.319	-4.5	-4.986	-8.787	-20.836	-20.124	-16.536	-15.41	-16.888
			180	-31.986	-25.264	-21.052	-17.455	-15.267	-15.393	-15.988	-22.318	-18.38	-19.549	-24.905	-42.08
			195	-19.541	-20.919	-20.194	-16.017	-13.961	-14.869	-20.426	-22.571	-13.265	-9.122	-7.274	-7.221
			210	-10.33	-9.821	-10.755	-14.476	-15.373	-12.605	-14.91	-15.485	-8.686	-4.166	-2.834	-3.771
			225	-3.563	-3.252	-4.799	-10.216	-18.67	-15.231	-14.531	-10.988	-9.145	-5.067	-3.566	-5.361
			240	-7.906	-10.01	-13.063	-13.027	-19.616	-20.538	-18.156	-11.922	-6.068	-5.539	-7.022	-9.314
			255	-6.697	-6.939	-9.028	-16.679	-11.951	-24.999	-14.08	-15.219	-10.619	-10.739	-7.726	-3.974
			270	-4.9	-4.948	-4.84	-10.254	-11.864	-20.487	-16.003	-15.475	-9.8	-9.334	-10.041	-4.13
			285	-8.68	-6.739	-6.825	-21.879	-11.574	-16.537	-12.278	-10.211	-8.733	-6.835	-5.663	-3.524
300	-13.882	-12.714	-11.792	-12.436	-10.11	-11.747	-10.662	-9.662	-7.138	-9.098	-7.817	-4.233			
315	-10.56	-14.986	-14.232	-21.013	-14.101	-11.226	-14.64	-21.475	-14.613	-11.622	-14.861	-13.429			
330	-6.039	-6.51	-8.396	-5.234	-6.975	-10.616	-24.11	-7.483	-6.7	-5.782	-2.26	-1.171			
345	-7.561	-7.15	-12.629	-6.619	-2.902	-5.258	-12.202	-4.085	-3.168	-3.003	-1.769	-0.214			
360	-9.867	-9.802	-9.629	-9.404	-9.19	-9.039	-8.985	-9.039	-9.19	-9.404	-9.629	-9.802			

DB-5150MHZ

Polarizati on-V	Amplitud e	0	-8.985	-9.039	-9.19	-9.404	-9.629	-9.802	-9.867	-9.802	-9.629	-9.404	-9.19	-9.039
15		-9.213	-3.781	-1.973	-1.388	-2.622	-5.085	-6.78	-4.153	-2.567	-1.392	0.054	0.496	
30		-2.56	-1.313	0.335	0.98	0.964	0.526	-2.385	-1.43	0.439	1.113	1.528	1.451	
45		-9.753	-4.93	-1.162	-0.087	-1.224	-4.352	-7.08	-8.298	-2.908	0.608	1.885	1.36	
60		-6.369	-3.115	-0.876	-4.522	-8.054	-6.637	-3.259	-3.994	-9.266	-5.976	-2.925	-6.012	
75		-0.462	1.413	2.908	2.568	2.347	-0.067	-2.747	-3.557	-4.598	-4.237	-2.502	-1.268	
90		0.629	1.501	1.99	0.814	-0.636	-1.473	-2.375	-7.487	-12.057	-5.575	-1.245	0.293	
105		-6.442	-3.557	-3.715	-1.939	-1.658	-4.599	-8.021	-8.176	-8.993	-3.064	-0.792	-3.79	
120		-3.583	-3.463	-3.185	-2.498	-2.673	-4.105	-8.059	-13.087	-9.481	-1.289	2.112	2.119	
135		-5.054	-4.962	-8.052	-11.801	-8.479	-3.383	-1.64	-1.804	-3.481	-4.641	-4.798	-4.071	
150		-3.1	-4.376	-9.197	-22.221	-13.397	-9.61	-4.207	-2.683	-2.868	-5.644	-8.896	-11.051	
165		-6.596	-7.153	-10.441	-19.727	-14.634	-7.817	-5.981	-7.767	-9.962	-14.491	-18.581	-19.135	
180		-17.717	-16.737	-18.361	-19.601	-20.334	-23.583	-27.081	-21.815	-23.26	-24.152	-21.096	-20.078	
195		-14.737	-13.159	-11.414	-9.886	-9.82	-10.447	-10.314	-11.172	-16.934	-14.3	-9.225	-6.388	
210		-9.785	-9.494	-10.616	-20.037	-18.614	-14.222	-13.348	-14.473	-17.015	-10.521	-5.664	-3.615	
225		-2.627	-1.638	-1.672	-3.115	-6.105	-14.855	-17.21	-11.329	-8.942	-6.155	-5.313	-4.786	
240		0.56	-1.794	-1.213	-0.863	-4.142	-12.053	-20.223	-20.754	-10.748	-8.783	-9.566	-6.2	
255		-11.079	-5.244	-1.539	-0.432	-2.737	-7.262	-11.98	-10.851	-9.293	-9.848	-9.731	-8.529	
270		1.341	-0.708	-0.667	-0.759	-5.03	-15.057	-16.963	-14.31	-10.631	-12.099	-5.656	-2.016	
285		-1.153	-3.685	-13.313	-11.353	-6.103	-5.871	-7.454	-6.43	-7.778	-8.368	-4.907	-2.678	
300		-13.323	-12.184	-3.672	-4.46	-7.917	-7.91	-9.351	-22.369	-11.282	-9.693	-8.646	-8.436	
315		-2.493	-7.256	-14.332	-8.647	-5.497	-6.182	-8.423	-7.625	-10.116	-22.967	-13.972	-11.622	
330		-1.299	-9.018	-12.281	-7.661	-8.138	-4.898	-4.465	-7.265	-7.189	-5.893	-4.058	-3.075	
345		0.174	-2.999	-7.129	-4.294	-0.289	0.479	-1.27	-5.111	-12.458	-18.436	-16.083	-12.875	
360		-8.985	-9.039	-9.19	-9.404	-9.629	-9.802	-9.867	-9.802	-9.629	-9.404	-9.19	-9.039	

Polarizati Amplitud
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DB-5350MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5350M	Polarization-H	Amplitude	0	-9.263	-9.292	-9.37	-9.48	-9.592	-9.676	-9.707	-9.676	-9.592	-9.48	-9.37	-9.292
			15	-0.701	-0.723	0.388	1.048	-0.597	-6.638	-16.838	-8.351	-4.887	-5.192	-7.482	-9.345
			30	-1.679	-2.988	-2.747	-2.499	-4.034	-6.972	-15.225	-6.75	-1.614	-1.506	-5.347	-8.738
			45	-7.459	-8.18	-9.271	-7.844	-5.609	-7.606	-20.729	-21.622	-5.75	-4.192	-11.243	-18.255
			60	-5.591	-8.019	-7.705	-5.789	-5.756	-11.485	-11.654	-4.15	-2.47	-5.766	-11.084	-9.926
			75	-2.155	-4.503	-10.14	-8.551	-6.907	-15.362	-8.139	-2.138	-0.301	-2.863	-10.399	-10.714
			90	-3.322	-5.119	-10.673	-16.506	-8.772	-12.165	-10.88	-3.579	-2.163	-2.496	-6.347	-6.643
			105	-4.05	-4.578	-9.029	-20.912	-7.172	-7.989	-22.444	-4.927	-1.455	-1.707	-8.483	-7.902
			120	-10.326	-7.662	-8.699	-13.902	-18.903	-27.091	-18.504	-13.54	-5.058	-2.857	-6.227	-6.675
			135	-10.878	-9.939	-4.766	-3.541	-5.071	-5.196	-10.746	-20.238	-14.305	-13.093	-10.983	-4.324
			150	-6.043	-5.335	-3.005	-0.156	0.289	-2.711	-8.401	-18.193	-21.592	-18.119	-18.809	-11.423
			165	-9.491	-7.159	-5.317	-4.784	-4.768	-5.604	-8.678	-17.657	-13.449	-11.5	-12.223	-14.817
			180	-24.771	-18.984	-16.512	-15.063	-13.966	-13.807	-16.124	-16.612	-17.78	-19.536	-23.38	-36.15
			195	-20.792	-32.563	-20.434	-15.309	-14.098	-14.808	-15.05	-14.154	-13.19	-11.034	-9.687	-9.534
			210	-9.075	-9.659	-11.49	-14.18	-12.561	-15.711	-42.293	-18.83	-10.52	-5.205	-3.693	-4.823
			225	-2.548	-2.415	-4.615	-10.62	-12.844	-11.437	-16.834	-16.23	-12.204	-5.469	-3.967	-6.166
			240	-6.208	-8.548	-11.858	-13.125	-23.043	-16.906	-14.153	-14.28	-7.129	-5.035	-5.711	-8.891
			255	-7.091	-7.945	-9.813	-17.004	-11.525	-25.724	-11.896	-15.98	-12.613	-10.005	-7.198	-4.784
			270	-5.607	-5.124	-4.228	-9.259	-9.64	-18.567	-11.506	-12.748	-9.866	-9.468	-9.687	-3.832
			285	-8.975	-5.781	-5.514	-17.256	-10.066	-16.003	-10.232	-8.737	-9.872	-7.481	-6.007	-3.273
			300	-12.521	-10.321	-9.196	-9.689	-7.893	-13.887	-10.523	-8.787	-8.17	-9.844	-7.65	-4.28
			315	-15.876	-19.031	-17.45	-29.907	-20.457	-13.528	-14.381	-15.638	-13.553	-11.641	-12.391	-9.981
			330	-8.349	-8.959	-9.562	-5.636	-7.329	-10.482	-20.925	-8.643	-7.63	-5.973	-2.383	-1.315
			345	-8.125	-8.75	-11.184	-3.883	-1.952	-5.633	-12.397	-6.045	-2.737	-2.504	-0.681	0.771
			360	-9.263	-9.292	-9.37	-9.48	-9.592	-9.676	-9.707	-9.676	-9.592	-9.48	-9.37	-9.292

DB-5350MHZ

Polarization-V	Amplitude	0	-9.707	-9.676	-9.592	-9.48	-9.37	-9.292	-9.263	-9.292	-9.37	-9.48	-9.592	-9.676
		15	-12.439	-5.63	-2.94	-1.726	-3.16	-6.504	-5.941	-4.557	-5.276	-3.086	-0.817	0.595
		30	-2.481	-1.761	-0.098	0.341	-0.155	-0.337	-3.255	-2.474	-0.496	-0.08	0.406	0.31
		45	-8.971	-3.985	-0.239	0.073	-1.608	-5.882	-9.712	-10.445	-3.943	0.009	1.472	1.375
		60	-5.776	-2.364	-0.291	-4.541	-8.504	-6.649	-2.38	-2.561	-7.126	-5.688	-2.973	-5.998
		75	-0.071	0.903	2.427	2.065	1.863	-0.228	-3.016	-4.598	-4.825	-4.544	-2.991	-1.304
		90	0.993	2.042	2.318	1.335	-0.331	-1.184	-1.897	-6.586	-12.487	-6.869	-1.425	0.455
		105	-5.155	-2.459	-2.584	-2.2	-1.076	-4.15	-10.168	-9.363	-12.41	-4.1	-0.54	-2.495
		120	-1.657	-2.124	-3.132	-2.814	-2.82	-2.874	-5.103	-8.096	-8.206	-1.317	2.409	2.969
		135	-7.849	-5.769	-7.22	-14.86	-7.58	-2.031	-1.259	-0.985	-1.611	-2.617	-3.911	-3.588
		150	-3.957	-5.153	-10.22	-18.388	-9.005	-8.315	-4.769	-2.337	-2.093	-3.74	-5.534	-7.155
		165	-6.237	-6.537	-9.545	-16.713	-21.197	-9.489	-5.758	-5.403	-7.051	-9.851	-11.607	-11.821
		180	-14.237	-15.084	-16.012	-17.781	-21.356	-26.698	-28.807	-23.133	-22.33	-18.458	-15.42	-13.731
		195	-12.526	-12.913	-11.968	-11.13	-11.269	-11.755	-12.962	-16.67	-16.931	-13.006	-9.116	-6.268
		210	-8.501	-8.451	-12.696	-27.998	-13.328	-12.095	-14.254	-16.929	-14.406	-9.573	-5.897	-4.08
		225	-1.84	-1.065	-2.353	-3.923	-7.547	-21.954	-15.192	-11.82	-8.433	-6.23	-6.728	-9.078
		240	1.99	-0.08	-1.059	-0.989	-5.299	-16.526	-29.818	-15.171	-8.673	-8.203	-8.557	-3.74
		255	-9.607	-7.117	-2.653	-1.048	-3.692	-8.68	-13.001	-8.471	-7.279	-9.235	-8.211	-6.904
		270	1.593	0.15	-0.169	-0.666	-4.631	-13.57	-18.401	-17.628	-11.532	-11.657	-3.382	-0.476
		285	-0.208	-1.995	-8.327	-8.803	-4.489	-6.017	-7.461	-6.903	-8.102	-7.433	-3.061	-1.471
		300	-11.044	-14.098	-5.076	-5.602	-8.673	-9.215	-12.377	-19.875	-13.366	-10.382	-8.764	-8.789
		315	-1.441	-4.772	-12.075	-9.39	-5.729	-7.496	-9.42	-7.999	-12.594	-18.697	-9.509	-9.37
		330	-2.016	-9.839	-12.181	-8.208	-9.896	-5.678	-5.299	-8.86	-7.697	-6.082	-3.795	-2.664
		345	-0.372	-2.769	-6.942	-5.64	-1.706	-0.467	-1.795	-6.28	-16.057	-9.876	-9.667	-12.522
		360	-9.707	-9.676	-9.592	-9.48	-9.37	-9.292	-9.263	-9.292	-9.37	-9.48	-9.592	-9.676

[illegible]

DB-5500MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5500M	Polarization-H	Amplitude	0	-8.022	-8.151	-8.524	-9.09	-9.742	-10.29	-10.509	-10.29	-9.742	-9.09	-8.524	-8.151
			15	0.872	0.469	0.882	1.562	0.883	-3.159	-9.4	-5.665	-3.37	-3.453	-5.423	-7.95
			30	0.29	-0.881	-1.734	-1.673	-3.361	-4.435	-9.078	-5.67	0.085	0.223	-2.625	-6.736
			45	-3.915	-4.346	-4.231	-4.574	-4.549	-7.721	-13.165	-12.631	-6.682	-4.754	-11.04	-16.544
			60	-8.904	-9.163	-4.975	-3.574	-5.57	-13.943	-7.092	-1.762	-1.029	-6.308	-13.465	-15.166
			75	-2.511	-4.521	-7.716	-6.703	-8.562	-21.766	-4.709	-0.781	0.193	-2.932	-7.971	-14.049
			90	-3.563	-6.532	-10.919	-11.96	-9.562	-19.04	-7.539	-2.365	-1.336	-1.741	-6.017	-8.136
			105	-5.536	-6.16	-13.31	-19.646	-9.07	-10.094	-19.076	-4.996	-0.872	-0.295	-5.886	-9.39
			120	-10.115	-6.896	-6.469	-9.839	-10.572	-18.863	-18.983	-16.568	-5.336	-2.284	-4.934	-5.558
			135	-9.92	-6.404	-3.462	-2.568	-4.735	-5.749	-12.533	-24.927	-12.151	-11.094	-14.331	-5.192
			150	-9.29	-5.08	-2.109	-1.147	-1.308	-3.904	-12.187	-25.233	-12.883	-12.062	-16.586	-12.611
			165	-10.949	-7.351	-5.159	-4.522	-5.547	-7.821	-10.542	-14.867	-11.799	-10.065	-11.299	-16.915
			180	-23.191	-16.798	-12.699	-10.768	-10.112	-10.062	-11.777	-14.147	-12.263	-13.739	-16.934	-25.398
			195	-28.967	-20.288	-15.054	-12.835	-11.864	-11.232	-10.052	-8.913	-8.602	-8.88	-9.988	-12.025
			210	-9.532	-8.793	-10.629	-15.629	-14.223	-23.14	-13.352	-7.161	-6.662	-6.449	-6.375	-9.332
			225	-2.369	-1.69	-3.846	-10.025	-12.605	-10.449	-16.32	-15.399	-20.505	-7.701	-5.229	-7.666
			240	-3.937	-5.963	-8.377	-12.43	-21.154	-13.576	-12.071	-21.382	-8.096	-3.998	-4.256	-7.886
			255	-6.875	-8.728	-8.306	-19.072	-12.825	-28.189	-14.232	-25.089	-12.582	-7.28	-5.189	-5.415
			270	-6.821	-4.812	-3.176	-9.055	-7.744	-12.972	-11.974	-15.824	-10.535	-10.696	-9.494	-3.823
			285	-9.962	-4.867	-4.559	-15.911	-6.996	-14.507	-8.347	-9.839	-8.881	-6.201	-5.453	-3.624
			300	-16.106	-9.618	-8.274	-7.528	-6.131	-19.691	-8.534	-8.338	-9.373	-9.854	-7.98	-6.035
			315	-17.707	-11.668	-14.118	-17.01	-19.347	-14.504	-12.097	-13.4	-11.892	-9.345	-7.514	-5.733
			330	-10.32	-13.178	-10.866	-4.723	-7.13	-10.27	-18.231	-8.717	-8.671	-4.471	-1.06	-0.205
			345	-8.057	-7.876	-7.413	-2.106	-0.464	-4.808	-13.898	-5.233	-2.226	-1.895	0.474	2.152
			360	-8.022	-8.151	-8.524	-9.09	-9.742	-10.29	-10.509	-10.29	-9.742	-9.09	-8.524	-8.151

DB-5500MHZ

Polarization-V	Amplitude	0	-10.509	-10.29	-9.742	-9.09	-8.524	-8.151	-8.022	-8.151	-8.524	-9.09	-9.742	-10.29
		15	-13.275	-8.199	-5.614	-3.658	-5.49	-9.552	-9.608	-6.986	-6.263	-4.151	-1.624	-0.21
		30	-2.508	-1.881	-0.481	-0.213	-1.501	-1.462	-4.598	-4.764	-1.761	-0.914	-1.526	-2.008
		45	-6.526	-2.137	0.979	0.72	-1.883	-8.009	-12.132	-12.906	-6.21	-1.52	1.268	1.593
		60	-6.321	-2.243	-1.168	-6.907	-10.57	-6.003	-2.277	-2.657	-6.221	-6.81	-3.247	-4.61
		75	-1.149	0.077	1.308	1.522	1.826	0.108	-1.733	-3.926	-6.168	-8.144	-6.809	-2.543
		90	1.379	2.499	3.121	2.197	0.707	-0.841	-2.156	-5.633	-16.252	-14.369	-5.203	-0.996
		105	-3.123	-1.773	-3.354	-3.267	-2.452	-5.613	-13.719	-12.418	-22.338	-6.211	-1.453	-2.927
		120	-1.668	-2.654	-5.07	-4.337	-3.155	-2.079	-2.64	-3.859	-4.301	-1.963	1.206	1.882
		135	-9.233	-5.628	-5.029	-7.474	-4.84	0.143	0.257	-0.398	-0.724	-1.363	-3.029	-3.97
		150	-8.437	-8.433	-13.456	-15.033	-5.575	-4.366	-6.249	-4.782	-4.473	-5.328	-6.701	-8.311
		165	-7.025	-6.908	-9.185	-15.248	-26.729	-13.059	-9.6	-7.734	-8.797	-8.788	-8.292	-8.637
		180	-9.569	-10.156	-10.713	-12.27	-14.802	-19.449	-25.221	-26.391	-15.852	-12.226	-10.193	-9.078
		195	-10.09	-12.92	-13.322	-11.627	-9.938	-8.173	-8.231	-11.497	-13.679	-17.349	-11.211	-7.249
		210	-9.404	-9.6	-17.577	-15.203	-7.996	-6.417	-6.747	-9.072	-14.974	-17.865	-11.808	-9.166
		225	-1.358	-0.939	-2.87	-5.078	-12.609	-15.152	-11.348	-14.564	-12.08	-10.805	-13.778	-15.23
		240	2.195	0.703	-0.486	-1.62	-9.389	-23.11	-15.456	-19.285	-10.519	-9.452	-5.809	-2.931
		255	-7.253	-6.514	-3.397	-1.729	-5.632	-13.75	-16.786	-8.055	-5.477	-8.105	-5.018	-3.406
		270	0.845	0.061	0.52	-0.699	-5.279	-11.789	-16.864	-12.286	-10.262	-7.769	-2.148	-0.453
		285	-0.49	-1.847	-6.955	-7.024	-4.267	-8.176	-7.845	-5.683	-7.245	-5.699	-1.935	-1.259
		300	-9.408	-12.538	-6.634	-7.051	-10.086	-8.981	-16.157	-12.52	-14.858	-12.181	-9.443	-8.17
		315	-1	-4.342	-11.726	-10.987	-6.702	-10.25	-7.984	-7.362	-15.394	-11.471	-6.269	-6.63
		330	-4.94	-13.908	-14.435	-9.16	-9.275	-4.565	-5.456	-7.794	-6.863	-6.456	-4.787	-3.375
		345	-0.247	-2.116	-8.175	-10.115	-3.148	-2.064	-4.899	-11.207	-5.943	-2.8	-4.067	-7.355
		360	-10.509	-10.29	-9.742	-9.09	-8.524	-8.151	-8.022	-8.151	-8.524	-9.09	-9.742	-10.29

[illegible]

DB-5725MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5725M	Polarization-H	Amplitude	0	-6.899	-7.042	-7.459	-8.103	-8.858	-9.508	-9.773	-9.508	-8.858	-8.103	-7.459	-7.042
			15	1.822	1.188	0.746	2.453	3.055	-0.034	-5.053	-2.832	-0.498	-0.38	-1.89	-5.392
			30	1.812	0.613	-0.246	-0.226	-1.154	-0.719	-3.144	-3.914	0.749	0.916	-1.068	-4.126
			45	-2.658	-3.334	-2.484	-1.834	-2.28	-5.856	-7.821	-7.739	-8.28	-9.747	-14.997	-12.275
			60	-16.224	-13.093	-3.551	-1.939	-5.586	-22.39	-3.429	0.254	0.132	-3.366	-6.878	-9.554
			75	-3.677	-5.708	-6.387	-4.965	-8.272	-13.968	-2.182	0.212	0.144	-2.163	-5.555	-10.317
			90	-8.523	-10.73	-10.381	-6.204	-7.574	-29.145	-6.783	-2.369	-0.849	0.068	-3.124	-15.392
			105	-6.205	-7.596	-23.793	-13.394	-11.529	-18.063	-18.774	-7.149	-2.336	-0.371	-4.296	-13.472
			120	-7.206	-3.85	-4.023	-8.028	-8.938	-13.675	-14.012	-26.178	-6.748	-4.171	-6.838	-5.993
			135	-13.643	-5.593	-3.083	-2.889	-4.931	-7.797	-18.313	-12.38	-9.632	-11.964	-13.35	-8.434
			150	-28.984	-10.044	-4.717	-3.909	-5.387	-8.339	-15.593	-13.47	-10.008	-12.083	-28.616	-15.32
			165	-17.253	-21.309	-16.686	-12.167	-10.226	-10.871	-10.921	-10.362	-9.529	-10.726	-13.551	-20.318
			180	-17.362	-13.13	-10.398	-9.166	-8.664	-8.333	-8.284	-8.512	-9.55	-11.783	-15.733	-29.586
			195	-25.016	-16.348	-12.077	-9.559	-8.645	-9.019	-10.657	-12.963	-14.566	-13.781	-12.844	-12.913
			210	-11.334	-8.864	-11.848	-25.953	-18.371	-18.466	-11.27	-7.361	-6.516	-7.391	-9.898	-16.127
			225	-6.058	-4.548	-6.295	-13.513	-15.427	-11.841	-11.272	-6.766	-7.744	-10.893	-13.923	-22.666
			240	-5.663	-6.197	-8.294	-16.288	-16.034	-10.227	-7.194	-14.145	-14.032	-8.6	-8.429	-9.276
			255	-8.331	-11.192	-9.71	-14.498	-17.222	-30.564	-13.053	-17.182	-9.333	-5.759	-5.889	-7.664
			270	-8.342	-8.825	-3.828	-9.322	-7.29	-9.167	-13.727	-15.548	-16.151	-18.17	-11.98	-7.503
			285	-15.339	-7.125	-4.78	-41.427	-6.361	-10.941	-7.815	-10.915	-6.587	-4.634	-5.663	-3.957
			300	-20.277	-12.334	-11.06	-7.864	-6.17	-23.623	-7.248	-8.15	-9.111	-8.798	-8.811	-11.78
			315	-16.408	-10.756	-11.227	-12.387	-16.798	-12.126	-9.927	-11.22	-10.519	-8.036	-5.039	-2.898
			330	-11.294	-20.941	-12.355	-5.198	-7.252	-9.548	-15.949	-8.49	-6.337	-1.57	1.04	1.664
			345	-9.261	-10.483	-7.802	-1.123	-0.516	-6.408	-13.723	-3.217	-2.16	-1.443	0.896	2.778
			360	-6.899	-7.042	-7.459	-8.103	-8.858	-9.508	-9.773	-9.508	-8.858	-8.103	-7.459	-7.042

DB-5725MHZ

Polarization-V	Amplitude	0	-9.773	-9.508	-8.858	-8.103	-7.459	-7.042	-6.899	-7.042	-7.459	-8.103	-8.858	-9.508
		15	-7.407	-16.636	-12.635	-4.834	-4.26	-5.603	-9.559	-9.017	-8.069	-5.547	-2.85	-0.713
		30	-2.644	-1.921	-1.082	0.066	-1.58	-0.975	-2.06	-3.875	-1.696	-1.208	-2.212	-4.066
		45	-6.404	-1.998	1.057	0.712	-1.972	-10.715	-17.625	-14.802	-7.123	-1.599	0.54	1.145
		60	-11.085	-7.967	-6	-18.323	-8.327	-2.468	-0.207	-0.664	-4.86	-7.87	-4.916	-6.502
		75	-3.141	0.669	2.266	2.349	1.737	0.052	-2.215	-4.044	-7.044	-15.379	-10.727	-5.479
		90	0.627	3.162	3.578	2.929	-0.439	-4.55	-7.296	-10.602	-21.892	-19.813	-9.34	-6.186
		105	-5.802	-9.308	-7.645	-4.79	-5.153	-9.958	-24.523	-9.346	-5.861	-2.366	0.189	-1.403
		120	-5.877	-2.806	-2.701	-2.715	-1.789	-2.393	-2.062	-1.37	-0.208	0.389	1.014	-0.196
		135	-3.471	-3.458	-4.544	-3.16	-2.924	-0.305	0.546	-1.82	-2.328	-1.451	-3.15	-7.109
		150	-16.296	-12.138	-13.238	-12.043	-6.631	-3.559	-5.188	-8.858	-10.659	-10.153	-12.006	-21.973
		165	-19.27	-16.331	-14.447	-14.212	-15.301	-16.182	-14.443	-11.635	-9.818	-8.214	-7.641	-7.566
		180	-6.798	-7.798	-9.258	-12.234	-16.215	-23.933	-21.356	-13.268	-11.269	-9.083	-7.462	-6.533
		195	-5.71	-6.46	-7.897	-9.993	-11.522	-9.267	-6.453	-4.548	-5.993	-7.85	-11.707	-16.483
		210	-15.437	-11.906	-14.878	-14.865	-12.564	-8.684	-5.971	-6.422	-8.639	-11.601	-16.481	-21.125
		225	-4.77	-4.883	-6.204	-7.537	-18.655	-13.624	-12.108	-11.085	-9.257	-8.697	-8.543	-5.286
		240	-0.272	-1.216	-2.094	-4.278	-14.046	-14.099	-10.025	-10.457	-10.864	-10.827	-7.733	-7.135
		255	-6.565	-8.536	-6.262	-4.371	-9.177	-16.839	-10.46	-5.838	-7.606	-8.342	-3.972	-3.595
		270	-2.748	-2.639	-1.521	-2.404	-7.537	-12.517	-19.781	-10.321	-6.995	-4.139	-1.347	-0.476
		285	-1.377	-1.81	-6.102	-7.076	-4.646	-8.152	-4.685	-3.71	-4.878	-4.35	-3.798	-4.946
		300	-9.746	-11.503	-9.297	-9.046	-9.831	-9.186	-27.296	-9.205	-18.316	-17.973	-13.643	-13.59
		315	-0.229	-2.544	-9.411	-11.638	-7.044	-5.507	-2.934	-3.567	-8.103	-5.89	-3.613	-5.839
		330	-9.687	-24.5	-11.102	-10.44	-9.833	-3.417	-4.705	-5.155	-3.241	-3.814	-4.036	-3.196
		345	0.329	-1	-7.446	-13.752	-3.707	-2.471	-6.897	-6.007	-1.602	0.568	-0.501	-2.403
		360	-9.773	-9.508	-8.858	-8.103	-7.459	-7.042	-6.899	-7.042	-7.459	-8.103	-8.858	-9.508

DB-5725MHZ

[illegible]

DB-5825MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5825M	Polarization-H	Amplitude	0	-6.884	-7.007	-7.362	-7.9	-8.514	-9.026	-9.229	-9.026	-8.514	-7.9	-7.362	-7.007
			15	2.097	1.357	0.741	2.436	3.081	0.483	-3.519	-1.722	0.022	0.03	-0.942	-3.858
			30	0.94	0.208	-0.279	0.311	-0.675	-0.238	-2.055	-3.237	0.229	0.362	-1.494	-5.529
			45	-2.973	-3.659	-1.92	-1.229	-2.19	-5.889	-6.381	-5.789	-7.518	-10.021	-24.642	-10.3
			60	-16.944	-14.398	-2.908	-1.886	-6.322	-25.477	-2.587	0.625	0.402	-2.861	-4.13	-6.169
			75	-5.655	-9.117	-6.389	-5.367	-9.229	-12.028	-2.607	0.379	0.441	-0.44	-2.291	-7.835
			90	-11.625	-19.029	-8.846	-4.738	-6.474	-24.427	-6.724	-2.016	-0.724	0.995	-1.039	-14.915
			105	-6.827	-9.925	-26.615	-11.205	-11.346	-25.766	-14.573	-8.298	-3.832	-1.202	-4.198	-13.972
			120	-8.057	-5.074	-5.773	-10.592	-11.83	-14.859	-14.37	-18.463	-8.763	-5.252	-9.753	-7.52
			135	-14.423	-8.314	-5.035	-4.64	-7.294	-10.391	-14.284	-16.422	-9.784	-16.115	-13.621	-7.398
			150	-30.02	-13.18	-8.817	-6.792	-8.222	-13.812	-21.987	-19.863	-13.926	-17.234	-24.119	-13.135
			165	-13.428	-13.59	-15.006	-18.074	-18.103	-13.856	-11.351	-10.307	-10.445	-11.838	-14.197	-20.485
			180	-12.929	-9.968	-8.459	-7.405	-7.005	-6.956	-7.231	-7.523	-8.913	-11.334	-15.989	-20.925
			195	-23.662	-21.165	-15.405	-10.902	-7.916	-6.244	-6.293	-9.16	-13.242	-16.652	-15.008	-13.777
			210	-10.797	-11.351	-15.655	-17.83	-16.872	-17.127	-12.336	-8.083	-7.173	-8.17	-11.522	-21.458
			225	-5.682	-7.862	-11.159	-16.976	-20.739	-16.654	-11.338	-5.614	-5.41	-7.748	-13.303	-27.353
			240	-8.242	-9.013	-9.112	-18.203	-16.242	-11.281	-7.62	-12.506	-23.169	-12.57	-10.698	-10.25
			255	-11.055	-10.599	-10.991	-15.605	-17.897	-22.215	-12.785	-14.088	-8.01	-5.543	-5.873	-6.798
			270	-9.242	-10.551	-5.303	-9.564	-9.038	-9.88	-16.296	-14.518	-14.224	-15.004	-10.633	-7.761
			285	-13.779	-9.39	-4.647	-17.707	-7.296	-10.714	-9.936	-12.718	-6.17	-4.277	-5.415	-3.83
			300	-16.896	-15.552	-13.961	-10.013	-6.904	-26.624	-7.673	-10.094	-7.295	-6.159	-10.185	-15.454
			315	-14.886	-10.805	-11.839	-12.665	-14.074	-10.265	-8.854	-11.477	-11.779	-9.204	-4.867	-2.805
			330	-13.295	-37.275	-14.688	-6.968	-8.47	-9.839	-15.763	-9.346	-6.48	-1.734	0.489	0.642
			345	-8.91	-12.595	-7.247	-1.148	-0.351	-6.418	-13.569	-5.247	-4.985	-3.636	0.224	2.587
			360	-6.884	-7.007	-7.362	-7.9	-8.514	-9.026	-9.229	-9.026	-8.514	-7.9	-7.362	-7.007

DB-5825MHZ

Polarization-V	Amplitude	0	-9.229	-9.026	-8.514	-7.9	-7.362	-7.007	-6.884	-7.007	-7.362	-7.9	-8.514	-9.026
		15	-4.601	-11.626	-13.901	-4.957	-2.668	-3.154	-5.737	-8.65	-9.119	-7.978	-5.907	-2.673
		30	-1.706	-1.175	-0.762	0.301	-1.354	-1.232	-1.465	-3.817	-1.924	-1.472	-3.259	-6.093
		45	-5.754	-2.433	0.443	-0.246	-3.342	-13.948	-20.864	-13.704	-9.072	-3.28	-0.556	-0.67
		60	-13.938	-11.184	-12.092	-14.253	-4.557	-0.601	0.235	-0.327	-4.056	-12.349	-6.831	-8.796
		75	-1.154	2.381	3.399	3.111	1.944	-0.798	-3.878	-6.833	-9.087	-14.975	-7.772	-4.259
		90	1.534	3.89	3.871	2.245	-2.703	-7.678	-11.097	-11.372	-11.617	-9.589	-8.257	-7.225
		105	-10.817	-13.205	-7.332	-4.94	-5.938	-10.026	-9.717	-6.379	-3.715	-0.423	0.866	-1.27
		120	-3.642	-0.578	-0.204	-1.219	-1.096	-2.201	-1.286	-0.492	0.783	1.321	1.278	-1.186
		135	-2.233	-2.62	-4.625	-2.769	-1.308	-1.023	0.651	-0.833	-1.887	-1.821	-3.25	-8.093
		150	-14.87	-11.611	-10.83	-8.417	-6.542	-4.306	-4.25	-5.815	-6.793	-7.095	-8.115	-10.658
		165	-17.525	-16.619	-15.395	-13.496	-11.88	-11.058	-10.21	-8.726	-6.619	-5.948	-5.484	-4.947
		180	-6.378	-7.698	-10.311	-13.213	-18.24	-26.833	-15.507	-9.893	-8.09	-6.522	-5.456	-5.606
		195	-3.884	-4.027	-4.437	-6.117	-8.86	-10.467	-8.648	-6.795	-7.181	-7.923	-10.05	-12.658
		210	-12.273	-11.808	-12.175	-13.445	-10.667	-6.688	-6.474	-8.185	-11.13	-15.94	-19.931	-19.412
		225	-8.116	-8.508	-11.088	-15.318	-14.927	-12.248	-12.398	-11.753	-8.877	-7.731	-6.527	-3.746
		240	-1.449	-1.599	-3.434	-7.093	-16.43	-11.348	-8.934	-10.1	-10.199	-11.453	-9.23	-8.062
		255	-5.81	-6.208	-6.919	-7.746	-14.313	-19.295	-10.158	-6.307	-9.854	-8.134	-5.09	-6.204
		270	-6.496	-3.347	-3.332	-4.165	-10.115	-12.085	-15.49	-12.327	-7.703	-5.646	-2.651	-1.107
		285	-3.686	-3.192	-5.241	-6.504	-6.826	-9.119	-5.462	-4.597	-5.461	-5.979	-4.821	-4.539
		300	-11.552	-12.023	-12.231	-10.295	-12.209	-7.941	-16.543	-8.815	-14.837	-19.416	-19.115	-22.592
		315	-2.214	-3.554	-10.446	-11.427	-7.862	-6.287	-3.148	-3.707	-7.837	-5.882	-4.292	-5.944
		330	-14.898	-14.766	-12.26	-12.571	-9.136	-3.546	-5.732	-4.24	-2.583	-3.318	-4.16	-3.583
		345	-0.476	-1.391	-6.908	-13.559	-5.883	-4.881	-6.707	-2.599	0.585	1.899	1.197	-0.195
		360	-9.229	-9.026	-8.514	-7.9	-7.362	-7.007	-6.884	-7.007	-7.362	-7.9	-8.514	-9.026

[illegible]

5G0-5150 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5150M	Polarization-H	Amplitude	0	-14.497	-14.273	-13.715	-13.053	-12.479	-12.102	-11.972	-12.102	-12.479	-13.053	-13.715	-14.273
			15	-16.747	-11.459	-9.17	-10.214	-13.157	-10.524	-7.731	-7.502	-9.672	-17.377	-14.485	-6.553
			30	-16.675	-12.096	-12.395	-14.794	-17.621	-10.606	-5.383	-3.349	-3.777	-5.727	-10.045	-8.664
			45	-17.338	-10.031	-11.204	-23.109	-19.271	-17.568	-11.054	-11.917	-11.812	-7.812	-6.241	-10.794
			60	-11.855	-21.024	-11.637	-17.969	-13.528	-11.887	-5.174	-5.346	-8.268	-17.495	-15.989	-8.209
			75	-8.629	-14.176	-9.926	-19.568	-18.896	-18.878	-11.169	-11.677	-17.157	-22.289	-9.073	-6.217
			90	-10.208	-10.001	-5.937	-8.09	-13.228	-30.02	-19.349	-16.466	-14.718	-16.879	-11.214	-4.368
			105	-20.425	-11.103	-10.831	-9.213	-12.427	-23.206	-19.773	-28.489	-13.702	-13.482	-11.702	-4.385
			120	-8.226	-14.111	-15.301	-22.131	-13.926	-18.629	-14.898	-15.299	-18.855	-21.813	-17.157	-5.568
			135	-6.484	-12.725	-24.451	-11.056	-9.596	-14.971	-27.954	-17.752	-13.778	-9.905	-5.991	-2.559
			150	-2.551	-5.909	-10.118	-13.379	-15.322	-15.822	-17.09	-15.824	-12.4	-8.588	-4.858	-2.038
			165	-0.641	-2.568	-5.666	-10.254	-17.501	-32.127	-17.746	-11.833	-8.159	-5.436	-3.3	-1.836
			180	-0.358	-1.129	-2.627	-5.226	-10.147	-22.568	-14.346	-7.441	-3.969	-1.868	-0.689	-0.247
			195	-0.358	-0.122	-0.9	-3.075	-7.261	-14.154	-10.435	-4.911	-1.672	0.253	1.16	1.124
			210	-0.361	0.471	-0.018	-2.478	-7.654	-7.293	-4.871	-4.157	-2.033	-0.035	0.413	-0.579
			225	-0.298	0.071	-0.471	-2.644	-10.053	-7.433	-6.482	-6.22	-0.653	1.453	0.778	-1.997
			240	-0.684	-0.284	-3.207	-7.336	-18.559	-8.894	-10.574	-10.143	-1.534	0.726	0.18	-2.258
			255	-1.366	-2.472	-7.041	-10.555	-18.439	-17.322	-19.702	-8.273	-2.94	-2.077	-3.436	-6.295
			270	-2.118	-4.488	-11.688	-13.879	-21.13	-7.48	-15.08	-4.934	-1.893	-3.419	-6.249	-6.979
			285	-7.166	-13.296	-11.422	-14.66	-9.46	-11.111	-16.705	-12.13	-10.373	-11.578	-9.842	-7.826
			300	-8.113	-6.264	-6.647	-9.111	-11.537	-19.174	-17.729	-8.725	-5.029	-6.534	-14.035	-11.023
			315	-15.257	-6.754	-8.323	-13.922	-13.848	-16.919	-27.885	-27.142	-16.118	-11.973	-13.951	-19.891
			330	-3.661	-2.15	-4.304	-9.771	-15.906	-21.879	-27.22	-16.975	-10.291	-8.445	-10.976	-21.969
			345	-2.77	-2.355	-3.902	-6.243	-10.945	-15.923	-14.702	-12.385	-10.491	-9.675	-11.595	-18.24
			360	-14.497	-14.273	-13.715	-13.053	-12.479	-12.102	-11.972	-12.102	-12.479	-13.053	-13.715	-14.273

5G0-5150 MHZ

Polarization-V	Amplitude	0	-11.972	-12.102	-12.479	-13.053	-13.715	-14.273	-14.497	-14.273	-13.715	-13.053	-12.479	-12.102
		15	-6.126	-5.355	-5.338	-6.763	-8.684	-9.07	-7.133	-5.821	-5.527	-5.072	-5.217	-6.317
		30	-4.774	-6.068	-7.486	-8.04	-8.396	-6.993	-5.555	-5.445	-7.493	-10.352	-11.097	-11.193
		45	-4.183	-3.969	-7.128	-12.363	-15.461	-14.481	-25.671	-11.227	-12.222	-13.951	-3.472	-0.851
		60	-4.038	-2.879	-4.022	-7.059	-5.004	-3.388	-7.028	-9.926	-4.614	-4.035	-10.416	-7.014
		75	0.237	0.252	-2.071	-6.991	-10.55	-6.128	-3.15	-2.339	-3.053	-4.634	-2.593	-1.651
		90	-1.271	-0.246	-1.949	-5.563	-5.006	-5.099	-3.687	-2.118	-0.32	-2.101	-12.218	-13.438
		105	1.458	1.482	-0.616	-4.976	-6.799	-4.335	-3.501	-2.014	-4.309	-5.807	-5.045	-3.155
		120	-0.659	0.058	-0.8	-4.163	-7.756	-7.693	-9.741	-7.569	-5.852	-4.565	-4.05	-5.867
		135	-6.221	-7.754	-6.719	-7.878	-10.361	-9.647	-9.026	-11.28	-8.794	-3.387	-0.909	-0.768
		150	-7.884	-7.949	-8.743	-10.166	-10.813	-9.966	-10.106	-13.465	-18.052	-10.32	-5.752	-3.308
		165	-10.17	-7.892	-6.033	-5.099	-4.73	-4.526	-4.581	-4.949	-6.105	-8.263	-12.571	-18.281
		180	-13.596	-6.604	-3.187	-1.201	-0.113	0.314	0.087	-0.723	-2.154	-4.685	-9.134	-20.864
		195	-9.831	-5.288	-1.93	0.29	1.59	2.183	2.129	1.464	0.054	-2.519	-6.508	-10.685
		210	-2.072	-1.045	0.35	1.491	2.065	2.148	1.969	1.194	-1.33	-6.879	-14.411	-10.011
		225	-1.798	-2.757	-2.08	-0.745	-0.419	-1.241	-2.129	-3.706	-9.446	-18.784	-6.51	-4.388
		240	-1.333	1.564	0.178	-1.737	-1.947	-3.29	-5.103	-5.884	-6.031	-4.385	-2.747	-1.641
		255	-1.187	0.276	-0.965	-3.35	-4.36	-5.222	-7.4	-5.796	-2.12	-1.476	-0.936	0.35
		270	-2.817	-1.298	-3.49	-5.278	-4.522	-4.623	-4.55	-4.237	-2.459	-2.401	-4.194	-3.251
		285	-1.036	-2.022	-4.268	-4.988	-5.703	-9.725	-6.171	-3.352	-3.585	-3.32	-2.385	-1.232
		300	-5.385	-8.946	-11.142	-12.314	-5.371	-4.085	-7.92	-7.205	-2.705	-3.11	-5.367	-5.705
		315	-2.653	-6.237	-5.025	-4.595	-3.499	-1.679	-2.049	-3.584	-4.204	-5.145	-6.347	-5.52
		330	-10.435	-7.783	-5.377	-5.604	-7.073	-7.439	-5.574	-3.805	-3.173	-3.722	-4.313	-4.855
		345	-6.737	-5.516	-3.693	-4.096	-5.244	-6.56	-7.375	-7.123	-6.228	-5.884	-5.954	-5.823
		360	-11.972	-12.102	-12.479	-13.053	-13.715	-14.273	-14.497	-14.273	-13.715	-13.053	-12.479	-12.102

Polarization-Total Amplitude

[illegible]

5G0-5350 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5350M	Polarization-H	Amplitude	0	-14.02	-13.747	-13.08	-12.308	-11.653	-11.229	-11.084	-11.229	-11.653	-12.308	-13.08	-13.747
			15	-25.366	-16.084	-12.227	-12.762	-14.269	-10.205	-7.453	-7.006	-9.363	-17.377	-15	-6.745
			30	-33.359	-20.225	-18.917	-22.113	-18.891	-10.003	-4.964	-3.155	-3.88	-6.466	-9.388	-6.793
			45	-26.204	-12.572	-12.659	-28.634	-18.151	-20.097	-10.92	-10.506	-10.652	-8.133	-6.826	-10.817
			60	-10.092	-25.73	-10.719	-14.608	-14.429	-13.065	-5.221	-5.485	-8.893	-14.264	-22.483	-9.747
			75	-7.014	-11.824	-9.201	-13.547	-16.023	-15.249	-11.23	-13.333	-18.132	-28.999	-8.753	-5.345
			90	-9.741	-10.293	-5.771	-6.884	-10.63	-19.552	-20.744	-17.992	-14.121	-12.378	-11.979	-4.563
			105	-14.649	-15.775	-12.891	-9.868	-10.046	-16.801	-23.097	-21.911	-12.996	-13.142	-15.117	-4.627
			120	-6.113	-10.644	-11.422	-13.785	-9.559	-14.606	-17.761	-16.533	-17.338	-16.772	-14.553	-4.925
			135	-5.119	-13.326	-18.912	-8.591	-7.123	-10.944	-23.122	-21.591	-16.304	-11.626	-6.332	-2.043
			150	-0.599	-3.879	-7.849	-11.34	-14.277	-16.679	-17.775	-15.955	-13.081	-9.348	-5.078	-1.645
			165	-0.06	-2.175	-5.483	-10.476	-18.643	-27.504	-17.166	-11.849	-8.059	-5.154	-2.838	-1.224
			180	-0.139	-0.862	-2.37	-4.991	-9.885	-22.974	-14.317	-7.313	-3.751	-1.636	-0.441	0.104
			195	0.404	0.564	-0.258	-2.386	-6.402	-12.843	-11.382	-5.495	-1.908	0.355	1.538	1.718
			210	0.612	1.61	1.144	-1.256	-6.256	-7.574	-5.708	-4.85	-1.834	0.81	1.85	1.427
			225	0.349	1.036	0.517	-1.385	-7.189	-8.195	-7.953	-5.772	-0.134	1.957	1.592	-0.577
			240	-0.251	0.253	-2.236	-5.737	-12.559	-8.743	-13.48	-8.129	-0.842	1.049	0.551	-1.43
			255	-1.065	-1.818	-5.924	-9.532	-17.082	-18.078	-38.783	-8.548	-3.236	-2.346	-3.272	-5.256
			270	-1.515	-4.284	-12.279	-14.52	-26.228	-8.569	-19.898	-5.793	-2.803	-5.095	-8.452	-7.832
			285	-6.904	-13.141	-10.894	-11.927	-8.894	-12.054	-19.471	-11.824	-10.981	-13.641	-11.709	-7.374
			300	-9.067	-6.102	-5.682	-6.463	-9.253	-25.022	-21.994	-9.959	-5.669	-6.086	-12.579	-11.385
			315	-15.601	-6.937	-8.038	-11.628	-12.495	-17.828	-41.715	-22.034	-20.449	-15.17	-15.496	-19.558
			330	-3.691	-2.238	-3.789	-7.554	-12.738	-22.868	-20.45	-15.515	-9.854	-7.356	-8.317	-13.299
			345	-2.646	-1.934	-2.888	-4.848	-9.681	-14.593	-13.751	-11.288	-9.146	-7.787	-8.374	-12.468
			360	-14.02	-13.747	-13.08	-12.308	-11.653	-11.229	-11.084	-11.229	-11.653	-12.308	-13.08	-13.747

5G0-5350 MHZ

Polarization-V	Amplitude	0	-11.084	-11.229	-11.653	-12.308	-13.08	-13.747	-14.02	-13.747	-13.08	-12.308	-11.653	-11.229
	15	-4.827	-4.434	-4.537	-5.885	-8.115	-8.371	-6.512	-5.357	-5.229	-4.97	-5.415	-6.868	
	30	-3.418	-4.177	-6.043	-7.816	-9.304	-7.65	-6.154	-6.259	-8.491	-11.031	-10.622	-9.869	
	45	-5.292	-4.409	-6.821	-11.343	-12.425	-11.908	-16.399	-9.186	-9.106	-17.974	-4.618	-0.866	
	60	-4.587	-3.778	-4.191	-7.173	-5.732	-3.846	-6.564	-8.554	-3.341	-2.208	-7.632	-8.068	
	75	-0.148	-0.067	-1.841	-5.562	-10.29	-5.697	-1.629	-0.768	-1.591	-3.449	-2.659	-1.809	
	90	-2.558	-0.936	-1.876	-4.716	-5.499	-5.017	-2.461	-1.383	0.013	-1.394	-8.426	-24.773	
	105	1.541	1.529	0.09	-2.92	-5.397	-4.003	-2.37	-1.087	-4.113	-5.95	-4.363	-2.2	
	120	-0.763	0.24	-0.134	-2.803	-6.211	-7.156	-9.852	-8.603	-6.746	-3.946	-2.564	-4.64	
	135	-4.575	-6.945	-6.562	-7.878	-9.861	-8.706	-7.839	-9.096	-8.096	-3.387	-0.524	0.032	
	150	-5.709	-5.318	-5.943	-7.055	-8.09	-8.326	-8.236	-9.999	-13.837	-12.265	-7.46	-4.458	
	165	-9.52	-5.973	-4.093	-3.324	-3.395	-3.639	-3.939	-4.512	-5.564	-7.357	-10.467	-15.16	
	180	-13.265	-6.479	-3.154	-1.186	-0.079	0.373	0.132	-0.64	-2.07	-4.568	-9.079	-20.638	
	195	-9.974	-4.791	-1.51	0.562	1.61	2.072	1.96	1.369	-0.029	-2.545	-7.02	-13.127	
	210	-1.759	-0.35	0.911	1.898	2.182	1.888	1.478	0.709	-1.495	-6.597	-12.488	-7.761	
	225	-0.782	-1.773	-1.089	0.152	0.288	-0.907	-2.515	-4.799	-11.581	-14.3	-5.179	-2.953	
	240	-2.849	-0.071	-0.867	-1.539	-1.818	-3.687	-5.329	-5.216	-4.857	-3.85	-2.942	-2.168	
	255	-0.904	0.125	-0.833	-2.201	-3.844	-6.219	-7.092	-3.368	-0.54	-0.137	-0.146	0.612	
	270	-4.631	-3.436	-5.458	-4.656	-3.429	-4.245	-4.87	-3.491	-1.871	-2.52	-5.09	-4.32	
	285	-0.582	-1.552	-3.933	-4.459	-4.231	-5.158	-3.508	-1.937	-2.064	-1.985	-1.446	-0.758	
	300	-5.461	-9.063	-11.214	-11.99	-5.621	-4.64	-6.997	-5.982	-2.171	-2.334	-4.482	-5.24	
	315	-1.849	-5.028	-4.651	-3.923	-2.47	-0.813	-0.897	-2.193	-3.158	-4.429	-6.907	-7.061	
	330	-8.353	-7.397	-5.724	-5.685	-6.183	-5.899	-4.259	-2.722	-2.313	-2.955	-3.483	-3.949	
	345	-7.83	-6.042	-4.139	-3.962	-3.985	-4.312	-4.636	-4.725	-4.143	-3.745	-3.88	-4.121	
	360	-11.084	-11.229	-11.653	-12.308	-13.08	-13.747	-14.02	-13.747	-13.08	-12.308	-11.653	-11.229	

Polarization-Total Amplitude

[illegible]

5G0-5500 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5500M	Polarization-H	Amplitude	0	-14.347	-14.146	-13.638	-13.029	-12.495	-12.142	-12.019	-12.142	-12.495	-13.029	-13.638	-14.146
			15	-11.093	-13.603	-14.78	-16.537	-22.558	-15.014	-10.09	-8.677	-10.704	-19.25	-15.534	-7.671
			30	-11.61	-15.394	-21.655	-19.187	-16.912	-15.447	-8.095	-4.541	-5.1	-8.792	-8.338	-5.896
			45	-14.689	-18.334	-21.122	-13.192	-11.523	-16.347	-14.621	-10.567	-11.35	-13.026	-11.648	-13.794
			60	-8.919	-15.361	-15.404	-9.769	-11.075	-17.352	-7.112	-9.605	-18.899	-10.976	-14.821	-12.646
			75	-6.572	-7.532	-8.011	-9.152	-10.32	-13.905	-13.97	-38.881	-12.688	-16.786	-9.337	-4.787
			90	-10.07	-10.545	-7.712	-6.402	-7.806	-14.009	-17.751	-21	-11.339	-8.372	-28.71	-7.158
			105	-10.296	-14.138	-15.457	-10.221	-7.579	-11.215	-19.579	-19.359	-12.194	-10.37	-17.343	-6.184
			120	-5.88	-11.621	-10.912	-7.37	-5.666	-9.758	-25.029	-22.169	-14.479	-11.606	-10.822	-4.747
			135	-4.271	-11.314	-14.933	-9.118	-8.472	-12.278	-20.102	-24.11	-22.876	-15.6	-8.061	-2.031
			150	-0.217	-2.738	-6.836	-12.962	-20.326	-24.01	-22.978	-18.563	-13.454	-9	-4.965	-1.274
			165	-1.157	-2.591	-4.834	-8.017	-12.066	-17.901	-39.834	-17.721	-11.022	-7.125	-4.368	-2.491
			180	-2.478	-2.935	-4.086	-6.258	-9.888	-16.848	-21.8	-11.917	-7.483	-4.856	-3.352	-2.601
			195	-0.331	-0.018	-0.913	-2.995	-6.261	-11.093	-15.809	-11.169	-5.874	-2.582	-0.779	0.005
			210	0.829	1.772	0.934	-1.86	-6.743	-11.099	-12.118	-11.722	-6.439	-2.263	-0.011	0.465
			225	1.296	1.972	1.012	-1.028	-4.956	-11.463	-19.37	-9.52	-3.995	-0.925	0.578	-0.173
			240	-1.021	-0.427	-2.127	-5.12	-7.795	-9.917	-25.768	-6.922	-2.429	-0.283	0.252	-1.268
			255	-2.726	-2.115	-5.286	-10.119	-16.861	-18.432	-17.62	-7.935	-4.557	-2.951	-2.824	-5.347
			270	-3.191	-6.547	-15.51	-15.739	-15.947	-13.52	-23.587	-7.944	-4.315	-6.538	-6.799	-8.996
			285	-7.68	-16.626	-9.544	-9.586	-11.789	-16.11	-17.934	-9.42	-7.203	-14.548	-18.674	-10.081
			300	-12.638	-5.959	-3.837	-3.315	-7.48	-19.753	-19.873	-9.934	-6.594	-6.727	-11.556	-15.128
			315	-16.025	-8.205	-7.2	-8.367	-11.974	-18.32	-20.232	-12.596	-10.159	-10.688	-14.346	-27.365
			330	-5.041	-3.505	-3.532	-5.388	-9.169	-15.979	-34.748	-28.76	-16.647	-11.109	-9.225	-9.897
			345	-3.376	-1.747	-2.028	-3.674	-8.108	-15.824	-20.211	-15.827	-13.35	-9.879	-8.84	-9.816
			360	-14.347	-14.146	-13.638	-13.029	-12.495	-12.142	-12.019	-12.142	-12.495	-13.029	-13.638	-14.146

5G0-5500 MHZ

Polarization-V	Amplitude	0	-12.019	-12.142	-12.495	-13.029	-13.638	-14.146	-14.347	-14.146	-13.638	-13.029	-12.495	-12.142
		15	-5.747	-6.194	-6.993	-8.396	-10.452	-8.83	-6.923	-6.811	-7.561	-8.233	-9.28	-11.737
		30	-4.812	-4.297	-5.024	-7.044	-8.948	-7.836	-6.83	-7.34	-9.314	-11.323	-9.484	-6.991
		45	-11.196	-10.605	-9.587	-12.345	-13.528	-14.674	-16.464	-9.113	-7.997	-14.858	-7.129	-1.728
		60	-2.637	-4.464	-5.421	-7.641	-10.196	-8.789	-6.704	-5.887	-2.238	-0.961	-5.482	-15.73
		75	-0.615	-1.452	-3.218	-3.844	-5.97	-6.511	-1.19	0.51	-0.838	-3.583	-5.926	-5.028
		90	-2.337	-3.636	-4.047	-3.844	-5.554	-10.44	-3.83	-2.378	-2.012	-2.145	-3.593	-9.807
		105	1.705	1.402	0.247	-1.038	-2.897	-6.05	-4.315	-3.056	-7.813	-9.568	-4.833	-2.37
		120	-3.615	-3.2	-2.749	-4.329	-6.847	-9.062	-13.54	-16.209	-10.413	-4.025	-1.682	-3.359
		135	-0.42	-2.721	-5.911	-8.574	-10.376	-8.048	-5.49	-5.46	-6.835	-5.889	-2.332	-0.251
		150	-2.786	-2.031	-2.578	-3.912	-5.522	-6.261	-5.616	-5.313	-5.962	-6.681	-5.695	-3.745
		165	-8.979	-6.099	-4.349	-3.636	-3.595	-3.71	-3.742	-3.944	-4.698	-6.298	-9.15	-14.645
		180	-20.871	-12.025	-7.531	-4.991	-3.505	-2.857	-2.71	-3.192	-4.334	-6.64	-10.957	-19.444
		195	-13.07	-7.232	-3.614	-1.627	-0.531	-0.05	0.121	-0.233	-1.254	-3.417	-6.997	-10.391
		210	-2.957	-1.554	-0.094	0.721	0.475	-0.364	-0.663	-0.7	-1.82	-5.059	-9.5	-5.764
		225	0.417	0.261	0.375	0.706	0.147	-1.416	-2.979	-4.138	-6.08	-7.277	-4.009	-0.67
		240	-6.709	-4.926	-2.252	-1.098	-0.991	-1.938	-3.455	-4.253	-3.77	-3.742	-3.782	-3.531
		255	-2.503	-1.638	-0.76	-1.502	-3.483	-3.722	-3.028	-1.688	0.201	0.919	0.47	1.135
		270	-21.61	-11.954	-4.331	-1.424	-1.072	-4.456	-7.254	-3.587	-1.061	-1.352	-3.689	-3.195
		285	-3.721	-5.611	-5.438	-3.6	-1.05	-0.028	-1.228	-0.842	0.175	-0.313	-0.71	-0.731
		300	-11.731	-15.276	-13.574	-7.772	-4.87	-5.13	-7.69	-8.981	-4.384	-1.577	-2.023	-2.274
		315	-1.882	-5.382	-6.415	-3.451	-1.385	-0.812	-1.02	-1.483	-1.353	-1.089	-2.994	-7.306
		330	-6.806	-9.515	-9.299	-6.936	-5.879	-5.152	-4.494	-3.331	-2.722	-3.519	-4.8	-5.738
		345	-11.244	-9.207	-6.126	-4.445	-3.616	-3.497	-4.051	-4.969	-4.351	-3.577	-3.696	-3.865
		360	-12.019	-12.142	-12.495	-13.029	-13.638	-14.146	-14.347	-14.146	-13.638	-13.029	-12.495	-12.142

[illegible]

5G0-5725 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5725M	Polarization-H	Amplitude	0	-14.56	-14.443	-14.139	-13.756	-13.404	-13.163	-13.078	-13.163	-13.404	-13.756	-14.139	-14.443
			15	-5.048	-6.538	-8.518	-11.333	-17.689	-16.497	-11.285	-10.446	-14.958	-24.979	-10.625	-6.206
			30	-9.692	-10.231	-13.862	-23.584	-17.552	-24.929	-9.814	-5.938	-7.607	-12.673	-7.889	-8.25
			45	-12.045	-9.919	-12.384	-19.312	-15.229	-11.005	-13.75	-13.607	-14.681	-16.428	-7.926	-10.754
			60	-9.905	-9.133	-10.799	-11.183	-14.082	-14.847	-11.413	-14.237	-14.41	-9.604	-7.917	-7.362
			75	-8.856	-5.874	-5.57	-9.2	-9.578	-11.094	-14.561	-16.933	-11.348	-10.82	-7.963	-6.845
			90	-9.801	-8.649	-9.029	-11.263	-10.357	-12.095	-14.633	-35.466	-8.801	-7.894	-14.169	-10.403
			105	-10.96	-11.421	-10.502	-8.52	-7.139	-7.955	-14.389	-24.797	-8.573	-6.462	-10.192	-7.54
			120	-7.07	-16.002	-13.2	-8.279	-7.84	-11.614	-19.479	-27.819	-15.917	-9.552	-6.715	-4.23
			135	-4.285	-7.316	-12.231	-10.831	-12.164	-18.528	-29.267	-26.596	-17.226	-8.475	-4.743	-2.924
			150	-0.466	-2.437	-6.39	-11.578	-18.572	-21.349	-15.753	-18.362	-18.528	-6.96	-2.636	-1.024
			165	-0.541	-1.811	-3.626	-6.061	-8.895	-10.968	-12.376	-13.867	-11.786	-7.072	-3.397	-1.471
			180	0.012	-0.446	-1.384	-2.958	-5.604	-10.244	-17.871	-11.968	-6.22	-3.102	-1.223	-0.24
			195	0.145	0.126	-0.466	-2.123	-5.537	-12.973	-16.359	-7.199	-3.018	-0.777	0.368	0.792
			210	-0.275	0.592	0.428	-1.093	-4.967	-15.088	-15.974	-7.522	-3.612	-1.491	-0.634	-0.611
			225	-0.923	-0.33	-1.718	-3.189	-5.288	-13.284	-15.005	-7.788	-4.447	-2.274	-0.912	-1.194
			240	-1.681	-2.153	-3.076	-4.709	-6.877	-10.799	-13.412	-5.682	-3.155	-1.389	0.274	-0.918
			255	-6.877	-5.683	-6.012	-9.695	-15.809	-19.256	-14.936	-7.965	-5.954	-2.492	-0.933	-3.105
			270	-8.937	-9.812	-20.446	-17.896	-9.898	-14.27	-16.371	-7.059	-5.249	-3.997	-2.312	-6.358
			285	-10.441	-27.207	-13.549	-18.002	-29.402	-23.405	-24.82	-12.151	-7.913	-12.238	-6.601	-8.478
			300	-17.079	-10.441	-8.576	-6.773	-9.262	-19.364	-25.946	-11.608	-6.795	-10.591	-11.867	-12.936
			315	-10.428	-5.332	-5.887	-8.87	-12.607	-17.445	-14.427	-15.55	-10.942	-8.121	-8.187	-22.975
			330	-9.137	-6.092	-5.735	-8.641	-12.97	-13.806	-12.979	-12.75	-10.882	-7.367	-6.254	-8.669
			345	-4.675	-3.873	-5.625	-9.369	-17.159	-29.263	-20.966	-17.367	-13.086	-8.515	-5.49	-4.137
			360	-14.56	-14.443	-14.139	-13.756	-13.404	-13.163	-13.078	-13.163	-13.404	-13.756	-14.139	-14.443

5G0-5725 MHZ

Polarization-V	Amplitude	0	-13.078	-13.163	-13.404	-13.756	-14.139	-14.443	-14.56	-14.443	-14.139	-13.756	-13.404	-13.163
	15	-9.143	-9.681	-9.93	-10.089	-9.982	-8.319	-6.895	-6.884	-7.424	-7.403	-8.953	-12.638	
	30	-6.085	-6.26	-6.763	-6.916	-6.671	-7.068	-9.576	-10.744	-9.999	-9.089	-11.206	-12.536	
	45	-5.875	-11.742	-18.024	-13.747	-12.031	-11.585	-7.004	-5.49	-11.223	-9.531	-4.42	-5.266	
	60	-2.689	-1.639	-3.577	-4.972	-4.629	-5.832	-4.468	-3.499	-3.788	-3.867	-6.641	-10.807	
	75	-0.799	-1.269	-4.317	-4.228	-2.142	-3.083	-2.424	-1.254	-6.69	-9.336	-9.024	-8.057	
	90	-0.987	-0.185	-1.649	-3.25	-3.105	-3.837	-6.645	-9.183	-12.876	-12.818	-6.88	-7.291	
	105	1.766	1.663	-0.704	-2.155	-2.139	-4.624	-7.157	-7.895	-10.512	-10.167	-6.92	-3.966	
	120	-0.285	-2.622	-5.512	-7.026	-6.246	-4.731	-5.604	-6.68	-7.156	-8.849	-6.78	-5.419	
	135	1.248	-0.216	-2.545	-5.161	-7.615	-7.723	-5.825	-4.574	-3.975	-3.53	-2.009	0.04	
	150	-4.175	-4.027	-4.817	-6.839	-9.922	-12.255	-10.939	-7.546	-4.805	-3.262	-2.411	-1.49	
	165	-10.089	-9.809	-9.162	-8.637	-8.475	-8.011	-6.764	-4.885	-3.762	-3.761	-5.17	-7.479	
	180	-20.517	-10.685	-5.923	-3.286	-1.663	-0.741	-0.375	-0.582	-1.446	-3.22	-6.222	-12.35	
	195	-9.127	-7.918	-4.929	-2.544	-0.859	0.121	0.421	0.042	-1.006	-2.764	-5.435	-8.957	
	210	-2.159	-2.997	-2.703	-1.468	-0.382	0.36	0.806	0.544	-1.05	-4.485	-7.449	-5.189	
	225	0.7	0.485	-0.308	-1.309	-1.488	-0.797	-0.67	-1.432	-3.328	-6.831	-5.579	-0.38	
	240	-3.73	-1.917	-1.754	-1.634	-0.81	0.508	0.323	-1.603	-4.198	-6.528	-6.104	-2.383	
	255	-2.617	-2.403	-2.518	-2.93	-2.55	-0.287	-0.314	-1.366	0.006	-0.168	-1.401	0.442	
	270	-12.136	-9.067	-6.682	-3.172	-1.221	-1.552	-1.847	-1.707	0.213	-0.101	-6.061	-3.57	
	285	-9.022	-11.898	-11.419	-5.638	-0.185	1.012	-0.523	-0.043	1.302	0.515	-1.449	-3.616	
	300	-20.165	-17.209	-14.227	-5.917	-2.608	-0.21	-1.149	-3.848	-4.905	-4.778	-4.532	-4.157	
	315	-6.856	-9.03	-10.303	-4.189	-1.157	-1.71	-4.208	-3.973	-1.024	0.822	-0.274	-3.097	
	330	-13.109	-16.305	-9.742	-6.084	-4.505	-3.59	-4.213	-4.235	-2.651	-1.44	-2.303	-4.779	
	345	-15.412	-11.947	-7.864	-6.157	-5.341	-5.033	-4.924	-5.047	-4.633	-3.797	-4.464	-6.247	
	360	-13.078	-13.163	-13.404	-13.756	-14.139	-14.443	-14.56	-14.443	-14.139	-13.756	-13.404	-13.163	

[illegible]

5G0-5825 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5825M	Polarization-H	Amplitude	0	-14.82	-14.587	-14.006	-13.321	-12.729	-12.342	-12.208	-12.342	-12.729	-13.321	-14.006	-14.587
			15	-5.517	-7.165	-9.034	-10.537	-12.645	-13.358	-11.504	-11.918	-20.442	-15.853	-7.48	-4.894
			30	-9.678	-6.789	-9.962	-32.585	-17.816	-13.209	-7.041	-5.76	-9.344	-20.834	-10.998	-12.909
			45	-10.016	-6.822	-6.699	-9.28	-13.961	-12.061	-15.111	-14.645	-20.542	-28.278	-11.725	-8.902
			60	-9.781	-5.995	-5.953	-7.619	-14.816	-13.796	-13.505	-13.233	-14.56	-10.746	-11.671	-6.621
			75	-6.505	-3.589	-4.213	-8.367	-9.248	-10.723	-14.441	-15.714	-11.709	-11.645	-9.724	-11.17
			90	-6.365	-6.291	-7.48	-9.062	-10.242	-9.932	-11.971	-22.097	-9.291	-8.204	-15.168	-18.645
			105	-16.701	-13.319	-10.69	-7.776	-7.898	-8.162	-12.45	-19.175	-10.923	-9.624	-13.397	-9.002
			120	-9.473	-21.778	-11.644	-8.619	-12.603	-19.231	-25.592	-17.467	-16.803	-13.283	-7.231	-7.274
			135	-5.181	-9.556	-10.184	-9.314	-14.234	-18.089	-21.315	-27.423	-35.481	-11.703	-4.062	-2.711
			150	-2.331	-5.791	-10.667	-13.297	-16.516	-17.52	-15.553	-15.402	-16.615	-10.116	-3.997	-1.819
			165	-0.803	-2.492	-4.816	-7.163	-9.703	-11.518	-12	-11.31	-8.984	-5.699	-2.842	-1.115
			180	0.603	0.174	-0.783	-2.488	-5.404	-10.855	-22.846	-10.923	-5.371	-2.415	-0.686	0.24
			195	0.017	-0.512	-1.863	-4.57	-9.458	-22.274	-10.586	-4.9	-1.895	-0.194	0.521	0.432
			210	-2.615	-3.226	-3.469	-4.452	-8.487	-33.556	-9.356	-4.513	-2.307	-1.537	-1.768	-2.36
			225	-2.218	-1.74	-3.126	-5.044	-7.588	-20.884	-9.855	-4.509	-2.774	-2.445	-2.987	-3.354
			240	-4.27	-4.294	-5.96	-7.891	-10.434	-14.142	-7.499	-1.533	-0.607	-1.696	-1.497	-3.658
			255	-7.486	-7.641	-6.723	-9.449	-15.5	-15.719	-10.078	-4.718	-3.049	-2.855	-2.043	-4.568
			270	-15.869	-7.462	-11.511	-16.177	-9.706	-11.518	-14.962	-8.085	-9.938	-6.172	-2.728	-4.599
			285	-23.011	-17.266	-17.189	-18.749	-18.274	-15.196	-16.719	-11.68	-11.019	-21.019	-5.986	-6.767
			300	-10.612	-11.094	-9.174	-12.367	-20.896	-13.84	-18.768	-10.886	-4.916	-8.93	-10.226	-11.384
			315	-7.799	-7.25	-14.663	-19.522	-15.241	-10.313	-11.15	-27.582	-12.163	-9.71	-8.3	-22.876
			330	-11.697	-9.329	-9.704	-10.578	-11.786	-11.459	-11.127	-12.504	-12.092	-8.524	-8.655	-19.61
			345	-4.572	-5.279	-8.044	-12.476	-20.189	-23.063	-17.357	-18.66	-16.765	-9.889	-5.565	-4.004
			360	-14.82	-14.587	-14.006	-13.321	-12.729	-12.342	-12.208	-12.342	-12.729	-13.321	-14.006	-14.587

5G0-5825 MHZ

Polarization-V	Amplitude	0	-12.208	-12.342	-12.729	-13.321	-14.006	-14.587	-14.82	-14.587	-14.006	-13.321	-12.729	-12.342
		15	-5.35	-5.651	-5.964	-6.38	-5.954	-5.387	-5.749	-6.9	-7.466	-7.443	-8.592	-12.089
		30	-3.011	-5.574	-7.32	-5.886	-4.088	-4.04	-6.427	-9.927	-10.847	-9.167	-8.842	-11.348
		45	-4.306	-6.186	-10.078	-12.168	-13.208	-13.424	-8.977	-4.622	-6.2	-17.948	-6.056	-5.453
		60	-1.538	-1.181	-4.478	-7.408	-6.507	-5.933	-4.008	-3.998	-5.162	-6.412	-18.192	-14.67
		75	0.357	-0.277	-4.843	-5.624	-3.192	-2.643	-1.825	-1.149	-8.044	-29.996	-12.378	-7.975
		90	0.306	0.182	-2.537	-4.975	-4.261	-3.544	-4.441	-11.709	-24.017	-14.117	-10.271	-9.927
		105	1.757	0.26	-4.383	-5.824	-3.951	-4.842	-5.835	-6.977	-7.726	-12.95	-11.656	-6.248
		120	0.247	-3.28	-6.525	-7.519	-6.159	-4.19	-3.504	-3.513	-5.126	-8.811	-8.113	-7.172
		135	0.023	-2.611	-6.439	-8.783	-7.372	-5.341	-4.476	-4.538	-5.028	-5.954	-4.362	-0.288
		150	-6.574	-7.708	-10.465	-14.871	-15.553	-13.484	-10.012	-7.463	-5.721	-5.348	-5.96	-5.011
		165	-12.703	-14.824	-13.982	-11.543	-9.845	-8.606	-7.453	-5.914	-4.836	-4.885	-6.544	-9.892
		180	-23.932	-9.425	-4.546	-1.835	-0.191	0.61	0.831	0.505	-0.317	-2.162	-5.501	-12.496
		195	-10.442	-6.295	-3.051	-1.084	0.195	0.857	0.929	0.428	-0.624	-2.522	-5.462	-10.087
		210	-3.21	-2.827	-3.377	-2.747	-1.339	-0.322	-0.135	-0.875	-2.889	-5.877	-6.735	-5.85
		225	1.393	1.042	-0.538	-2.129	-2.236	-1.312	-1.054	-1.876	-3.996	-7.223	-4.063	-0.286
		240	-5.555	-2.296	-2.097	-3.736	-2.684	-0.217	-0.207	-3.272	-7.882	-8.244	-5.268	-0.714
		255	-2.118	-1.26	-2.028	-3.337	-2.391	-0.204	-0.852	-2.567	-2.575	-2.962	-0.792	0.764
		270	-11.641	-7.268	-6.028	-7.248	-3.768	-1.46	-3.17	-4.617	-0.986	-1.887	-5.591	-0.585
		285	-9.888	-7.956	-9.252	-8.506	-1.533	0.76	-0.765	-2.224	0.074	0.38	-3.008	-4.598
		300	-13.502	-9.916	-21.819	-7.694	-2.311	-0.506	-0.832	-2.825	-5.235	-6.478	-5.147	-3.975
		315	-7.129	-10.14	-13.267	-5.216	-1.353	-1.373	-4.608	-5.066	-2.56	-0.77	-1.288	-2.891
		330	-15.328	-21.994	-12.187	-8.249	-6.949	-6.075	-6.852	-6.29	-3.105	-0.992	-1.031	-2.332
		345	-15.243	-11.785	-9.432	-7.989	-7.346	-6.778	-6.633	-5.389	-3.808	-2.57	-2.854	-4.024
		360	-12.208	-12.342	-12.729	-13.321	-14.006	-14.587	-14.82	-14.587	-14.006	-13.321	-12.729	-12.342

[illegible]

5G1-5150 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5150M	Polarization-H	Amplitude	0	-14.245	-14.333	-14.583	-14.95	-15.351	-15.67	-15.792	-15.67	-15.351	-14.95	-14.583	-14.333
			15	-14.048	-11.001	-7.603	-5.175	-4.507	-5.373	-8.207	-14.83	-27.044	-12.096	-7.42	-6.251
			30	-24.841	-23.695	-14.421	-8.297	-6.688	-8.033	-11.296	-17.256	-12.661	-5.701	-3.012	-3.28
			45	-13.086	-15.988	-15.192	-12.449	-15.488	-13.366	-8.856	-15.32	-13.906	-6.84	-4.756	-4.408
			60	-17.388	-14.836	-18.108	-12.959	-9.312	-31.994	-10.736	-12.626	-17.808	-14.499	-10.176	-10.695
			75	-21.345	-17.403	-15.932	-11.441	-11.432	-14.514	-14.837	-29.065	-11.077	-10.139	-12.962	-9.575
			90	-31.007	-17.014	-28.889	-13.682	-16.796	-14.2	-18.588	-17.756	-18.889	-10.153	-15	-9.686
			105	-7.801	-8.578	-19.405	-15.3	-22.538	-16.453	-18.253	-13.984	-9.875	-12.189	-18.934	-12.199
			120	-6.971	-8.463	-13.174	-9.916	-13.245	-13.487	-8.936	-16.75	-15.593	-13.965	-24.338	-14.916
			135	-8.674	-13.443	-14.245	-10.324	-11.179	-18.517	-14.658	-12.533	-13.944	-15.805	-13.259	-10.539
			150	-9.724	-12.368	-15.85	-14.485	-13.184	-15.486	-24.859	-20.479	-15.619	-14.088	-10.36	-6.976
			165	-9.145	-8.585	-8.714	-9.627	-11.052	-13.023	-15.894	-18.407	-15.942	-11.92	-8.995	-7.145
			180	-8.155	-8.272	-9.044	-10.689	-13.363	-17.636	-22.909	-19.779	-15.093	-11.995	-9.894	-8.708
			195	-4.92	-4.971	-5.793	-7.044	-8.99	-11.704	-15.56	-20.027	-22.144	-18.603	-14.044	-10.609
			210	-4.042	-4.328	-5.463	-6.588	-8.461	-13.308	-28.245	-18.822	-15.809	-19.215	-25.783	-14.008
			225	-10.018	-10.583	-9.483	-7.128	-7.096	-13.324	-26.928	-18.244	-16.513	-18.287	-22.04	-9.97
			240	-12.638	-15.928	-18.047	-25.646	-27.402	-20.014	-33.215	-15.646	-10.913	-14.619	-25.039	-10.352
			255	-11.993	-17.768	-9.349	-7.116	-6.836	-15.009	-13.818	-7.027	-5.222	-9.117	-34.53	-13.613
			270	-12.53	-12.11	-10.977	-12.315	-10.007	-14.258	-21.365	-11.731	-5.868	-7.333	-14.295	-19.182
			285	-23.217	-9.388	-8.449	-13.316	-22.249	-12.65	-14.998	-13.991	-7.849	-7.97	-12.86	-15.346
			300	-5.907	-2.302	-2.553	-3.963	-8.971	-10.194	-11.964	-9.972	-8.091	-12.114	-17.278	-16.039
			315	-2.762	-2.282	-2.088	-2.858	-4.964	-4.641	-8.133	-12.27	-6.474	-6.388	-8.394	-10.224
			330	-4.388	-5.242	-4.904	-5.388	-5.668	-5.216	-7.472	-16.565	-20.533	-16.407	-22.894	-29.51
			345	-5.83	-5.712	-6.213	-6.423	-7.024	-7.526	-9.3	-12.111	-14.521	-13.597	-13.69	-14.814
			360	-14.245	-14.333	-14.583	-14.95	-15.351	-15.67	-15.792	-15.67	-15.351	-14.95	-14.583	-14.333

5G1-5150 MHZ

Polarization-V	Amplitude	0	-15.792	-15.67	-15.351	-14.95	-14.583	-14.333	-14.245	-14.333	-14.583	-14.95	-15.351	-15.67
	15	-13.98	-13.658	-14.067	-14.667	-13.584	-11.177	-8.359	-6.906	-6.002	-4.35	-3.349	-4.191	
	30	-3.392	-4.186	-4.534	-5.489	-7.218	-10.3	-13.486	-12.438	-5.644	-0.875	1.572	1.623	
	45	-8.004	-6.077	-4.231	-4.755	-7.947	-16.957	-12.201	-5.013	-5.167	-3.854	0.436	1.852	
	60	-1.497	-4.754	-7.9	-12.209	-13.187	-5.458	-7.739	-6.693	-3.502	-4.384	-3.464	-5.786	
	75	-1.498	-3.126	-3.163	-5.025	-9.925	-7.617	-7.017	-3.846	-4.122	-4.445	-5.341	-3.022	
	90	0.266	-1.463	-2.752	-4.192	-7.027	-0.842	-6.566	-5.657	-2.262	-1.628	2.223	2.754	
	105	-2.122	-4.111	-3.269	-2.379	-3.755	-2.248	-1.465	-6.785	-16.067	-17.703	-10.858	-11.253	
	120	0.094	-3.851	-7.25	-6.923	-4.579	-5.736	-10.495	-16.918	-12.061	-3.221	0.669	2.648	
	135	-2.793	-4.793	-6.224	-8.503	-8.493	-8.196	-10.423	-12.331	-16.588	-16.58	-10.097	-7.914	
	150	-5.151	-6.262	-7.255	-8.182	-8.805	-9.678	-10.351	-8.99	-7.241	-6.351	-5.619	-4.135	
	165	-6.075	-7.853	-9.924	-12.227	-14.85	-18.138	-21.273	-19.066	-15.205	-12.163	-9.463	-6.991	
	180	-20.07	-19.676	-15.163	-11.802	-9.984	-8.853	-8.464	-8.353	-8.822	-10.002	-11.981	-15.513	
	195	-4.333	-2.721	-1.948	-1.819	-2.259	-2.984	-3.766	-4.448	-4.577	-4.513	-4.459	-5.089	
	210	-1.736	-0.366	0.275	0.15	-0.984	-3.312	-6.806	-9.274	-7.638	-5.108	-3.69	-3.791	
	225	-6.957	-6.252	-4.61	-2.56	-2.301	-4.77	-8.858	-11.452	-8.904	-4.271	-1.63	-1.077	
	240	3.589	2.995	0.755	-2.59	-3.51	-1.945	-2.146	-4.742	-4.17	-0.897	1.091	1.633	
	255	-4.562	-1.248	1.692	1.922	-0.339	0.623	2.379	1.402	0.103	0.489	0.759	0.009	
	270	2.437	1.222	-4.178	-0.471	0.71	-0.59	2.193	2.295	-0.496	-2.172	-1.199	0.239	
	285	0.592	1.743	0.364	-1.093	2.891	2.814	-0.24	-0.482	-0.684	-0.082	0.773	0.411	
	300	-5.408	-7.541	-15.056	-4.882	-0.912	2.104	2.269	0.005	-1.95	-3.297	-2.688	-0.995	
	315	1.973	0.745	-4.218	-24.406	-12.385	-18.969	-11.63	-11.624	-16.472	-13.101	-9.566	-8.168	
	330	-0.507	-2.823	-6.451	-12.535	-9.129	-7.145	-7.951	-8.665	-7.663	-5.809	-4.337	-3.629	
	345	-7.275	-10.7	-16.319	-21.361	-22.21	-22.648	-20.309	-19.126	-17.772	-16.754	-16.073	-13.688	
	360	-15.792	-15.67	-15.351	-14.95	-14.583	-14.333	-14.245	-14.333	-14.583	-14.95	-15.351	-15.67	

[illegible]

5G1-5350 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5350M	Polarization-H	Amplitude	0	-16.812	-16.678	-16.334	-15.903	-15.512	-15.246	-15.152	-15.246	-15.512	-15.903	-16.334	-16.678
			15	-12.208	-12.418	-13.923	-12.284	-7.992	-5.929	-7.011	-10.676	-19.013	-24.929	-14.343	-11.813
			30	-15.018	-9.769	-10.454	-13.268	-7.9	-7.772	-10.589	-10.927	-16.67	-13.528	-6.985	-7.45
			45	-11.187	-22.194	-27.675	-19.054	-13.501	-14.568	-7.331	-9.1	-26.934	-10.138	-5.979	-4.873
			60	-18.57	-17.583	-13.534	-14.135	-7.463	-18.329	-10.623	-14.163	-14.141	-10.124	-7.691	-10.1
			75	-16.724	-17.489	-10.259	-11.852	-11.415	-12.903	-15.397	-16.463	-8.486	-9.813	-9.836	-7.414
			90	-20.2	-16.648	-18.377	-13.556	-20.869	-17.252	-36.179	-26.073	-17.782	-10.355	-13.696	-9.912
			105	-21.442	-12.118	-22.902	-12.891	-14.133	-13.734	-10.77	-25.937	-9.082	-11.801	-25.48	-14.109
			120	-8.984	-8.633	-13.866	-12.01	-12.62	-19.984	-9.061	-15.266	-11.831	-11.215	-22.532	-22.28
			135	-11.415	-15.318	-20.685	-14.211	-11.413	-11.353	-17.674	-16.314	-11.672	-11.103	-10.171	-8.028
			150	-16.041	-15.481	-12.643	-12.876	-11.025	-9.51	-12.478	-22.718	-12.971	-10.489	-9.889	-8.025
			165	-15.187	-12.965	-10.535	-9.505	-9.237	-9.625	-11.69	-16.336	-22.508	-18.259	-14.218	-12.251
			180	-13.018	-11.991	-10.794	-9.909	-9.723	-10.03	-10.905	-12.029	-13.458	-15.043	-16.092	-15.872
			195	-10.316	-11.433	-13.804	-17.217	-19.233	-19.165	-16.537	-12.68	-10.033	-8.966	-9.662	-12.207
			210	-5.891	-7.578	-9.673	-11.094	-14.314	-19.128	-20.171	-24.488	-10.611	-6.81	-6.86	-9.889
			225	-7.285	-7.873	-7.021	-6.571	-9.811	-22.472	-12.734	-25.86	-11.03	-7.215	-9.037	-15.511
			240	-16.312	-14.521	-12.918	-15.29	-16.518	-15.262	-34.735	-13.978	-10.664	-12.703	-14.734	-30.886
			255	-8.989	-15.967	-13.637	-6.934	-8.348	-18.503	-18.232	-12.323	-11.941	-13.039	-18.191	-20.189
			270	-13.953	-19.04	-16.958	-9.918	-8.921	-12.27	-19.629	-13.724	-9.657	-17.305	-14.548	-17.579
			285	-32.324	-9.402	-9.517	-11.499	-21.204	-17.21	-25.762	-8.498	-4.35	-5.972	-14.312	-17.697
			300	-3.987	-1.704	-2.379	-3.36	-10.181	-13.323	-17.039	-7.382	-7.432	-10.465	-18.677	-14.94
			315	-3.886	-3.892	-3.28	-4.466	-7.093	-7.047	-16.77	-8.022	-4.81	-4.493	-4.22	-5.583
			330	-10.128	-8.683	-7.454	-7.6	-5.738	-4.894	-7.996	-15.007	-14.676	-9.726	-8.93	-12.962
			345	-11.21	-9.797	-9.635	-9.222	-8.944	-8.645	-9.029	-10.788	-14.443	-19.195	-19.63	-15.901
			360	-16.812	-16.678	-16.334	-15.903	-15.512	-15.246	-15.152	-15.246	-15.512	-15.903	-16.334	-16.678

5G1-5350 MHZ

Polarization-V	Amplitude	0	-15.152	-15.246	-15.512	-15.903	-16.334	-16.678	-16.812	-16.678	-16.334	-15.903	-15.512	-15.246
	15	-8.706	-8.922	-9.821	-10.319	-11.227	-14.398	-14.093	-11.469	-9.292	-6.307	-4.381	-4.4	
	30	-4.747	-5.199	-6.063	-7.354	-8.784	-12.225	-16.369	-20.419	-6.832	-1.302	0.704	-0.112	
	45	-10.623	-9.882	-5.297	-4.156	-5.488	-10.012	-17.414	-6.224	-3.829	-2.864	0.178	1.743	
	60	-1.552	-4.66	-10.626	-9.937	-18.621	-7.05	-6.646	-9.041	-4.452	-3.231	-1.861	-5.023	
	75	-2.243	-3.58	-3.508	-3.271	-9.076	-6.073	-9.369	-6.321	-2.759	-1.545	-4.605	-3.438	
	90	-2.771	-1.626	-1.754	-0.25	-7.093	-1.907	-2.205	-14.05	-7.07	-1.278	2.334	1.361	
	105	-3.018	-2.407	-2.218	-2.048	-2.722	-4.712	-2.524	-4.03	-4.851	-8.797	-12.977	-6.866	
	120	-0.733	-2.934	-4.339	-7.943	-8.307	-6.831	-13.986	-17.563	-11.136	-3.248	0.415	1.792	
	135	-2.495	-4.533	-5.85	-7.416	-7.843	-5.949	-5.078	-4.26	-4.181	-6.466	-9.838	-13.543	
	150	-4.173	-4.278	-5.077	-6.175	-6.502	-6.785	-6.478	-4.346	-2.437	-1.827	-1.843	-2.018	
	165	-5.721	-5.99	-6.976	-8.538	-10.32	-12.608	-13.317	-12.036	-10.519	-9.854	-9.099	-8.153	
	180	-9.931	-11.455	-13.39	-15.605	-16.323	-14.725	-12.881	-11.583	-10.697	-9.898	-9.4	-9.312	
	195	-6.348	-5.321	-5.055	-5.126	-5.986	-7.053	-7.937	-8.454	-9.204	-9.416	-8.201	-6.629	
	210	-1.41	-0.712	-0.256	-0.738	-2.767	-6.31	-6.748	-4.717	-4.152	-4.797	-4.985	-4.497	
	225	-15.623	-6.076	-0.655	1.31	0.257	-2.978	-3.806	-3.796	-5.995	-7.046	-4.396	-2.236	
	240	0.94	-2.358	-2.348	0.806	1.613	0.951	0.34	-1.044	-3.331	-3.938	-3.606	-1.884	
	255	-2.311	1.426	3.421	1.617	1.027	2.697	2.934	1.622	1.706	2.337	0.862	-1.732	
	270	-0.189	-6.783	-0.956	2.724	0.69	2.344	5.057	4.144	1.946	1.079	-0.479	-2.96	
	285	0.712	1.378	0.402	3.576	5.546	3.785	2.664	3.107	1.274	0.105	0.639	0.086	
	300	-8.026	-37.3	-5.079	-0.957	1.891	3.85	3.365	1.578	0.351	-1.717	-3.227	-2.149	
	315	1.628	-1.268	-9.918	-7.969	-6.754	-8.551	-3.949	-4.511	-9.689	-29.048	-11.271	-8.872	
	330	-2.697	-4.932	-7.422	-5.749	-3.92	-5.437	-9.741	-13.175	-11.886	-8.423	-6.355	-5.722	
	345	-5.525	-6.555	-8.829	-9.039	-9.039	-10.72	-14.173	-17.72	-20.978	-18.817	-14.197	-10.511	
	360	-15.152	-15.246	-15.512	-15.903	-16.334	-16.678	-16.812	-16.678	-16.334	-15.903	-15.512	-15.246	

[illegible]

5G1-5500 MHZ

Frequency(MHz)	Polarization	Category	Theta\Phi	0	15	30	45	60	75	90	105	120	135	150	165
5500M	Polarization-H	Amplitude	0	-13.314	-13.413	-13.693	-14.109	-14.568	-14.938	-15.082	-14.938	-14.568	-14.109	-13.693	-13.413
			15	-6.1	-6.865	-8.367	-9.144	-7.595	-5.667	-5.161	-7.109	-12.8	-32.93	-14.098	-8.484
			30	-7.602	-8.786	-9.454	-15.772	-9.029	-5.475	-8.381	-14.554	-14.527	-21.737	-14.961	-10.92
			45	-15.871	-18.686	-21.274	-18.466	-15.794	-12.514	-11.857	-8.671	-13.413	-23.553	-9.899	-5.74
			60	-12.202	-12.092	-14.376	-15.328	-7.445	-12.19	-14.661	-19.186	-16.067	-9.474	-9.189	-7.643
			75	-11.454	-21.263	-11.535	-12.651	-10.86	-12.205	-16.8	-16.866	-9.672	-12.491	-11.083	-8.361
			90	-13.4	-24.697	-43.247	-13.241	-11.62	-20.839	-22.696	-24.703	-23.215	-13.404	-11.921	-11.233
			105	-13.461	-13.204	-10.428	-18.467	-7.866	-21.334	-8.227	-18.199	-8.109	-8.499	-34.789	-16.521
			120	-15.047	-11.904	-10.503	-12.151	-6.856	-16.991	-11.385	-13.72	-13.126	-10.213	-17.568	-11.66
			135	-18.46	-14.344	-15.657	-22.651	-13.461	-12.508	-15.829	-21.245	-12.613	-9.226	-8.163	-4.538
			150	-11.066	-13.608	-21.419	-22.873	-15.961	-11.217	-10.498	-15.312	-16.726	-13.657	-15.355	-7.901
			165	-16.422	-30.982	-20.049	-15.02	-13.02	-11.785	-11.297	-12.151	-13.918	-17.329	-19.097	-14.065
			180	-12.599	-14.283	-15.646	-15.033	-13.889	-12.61	-11.031	-10.184	-10.039	-10.37	-10.997	-11.645
			195	-8.298	-7.429	-8.633	-10.597	-12.326	-13.342	-15.751	-16.573	-12.025	-9.037	-8.434	-10.018
			210	-4.609	-5.794	-10.427	-16.688	-28.499	-14.36	-11.752	-15.889	-15.575	-9.686	-7.635	-8.329
			225	-3.347	-5.192	-3.917	-3.386	-8.912	-15.062	-9.146	-14.822	-19.821	-10.887	-8.658	-12.517
			240	-16.918	-11.115	-7.037	-7.14	-9.71	-14.127	-16.334	-17.355	-24.778	-14.704	-9.754	-14.872
			255	-6.217	-9.221	-14.159	-8.853	-14.53	-23.263	-19.013	-17.493	-14.421	-20.335	-23.505	-12.409
			270	-10.21	-18.287	-8.681	-5.227	-8.329	-15.686	-19.284	-9.297	-6.844	-29.895	-11.969	-15.998
			285	-19.31	-18.686	-18.98	-12.894	-16.29	-22.31	-18.34	-7.58	-3.691	-6.947	-13.604	-8.35
			300	-3.21	-4.594	-7.789	-7.044	-13.35	-30.597	-12.642	-9.528	-7.832	-7.762	-15.378	-16.327
			315	-4.66	-4.767	-6.059	-9.101	-11.229	-13.106	-8.861	-4.771	-3.744	-3.071	-2.959	-6.555
			330	-7.005	-3.645	-2.724	-2.734	-3.471	-5.965	-12.458	-15.614	-10.013	-5.412	-3.206	-4.404
			345	-6.389	-5.515	-4.99	-4.836	-6.157	-7.216	-8.837	-11.383	-11.248	-8.087	-5.921	-5.214
			360	-13.314	-13.413	-13.693	-14.109	-14.568	-14.938	-15.082	-14.938	-14.568	-14.109	-13.693	-13.413

5G1-5500 MHZ

Polarization-V	Amplitude	0	-15.082	-14.938	-14.568	-14.109	-13.693	-13.413	-13.314	-13.413	-13.693	-14.109	-14.568	-14.938
	15	-6.267	-6.14	-7.205	-7.283	-7.286	-10.489	-15.611	-15.289	-12.469	-8.339	-5.145	-4.788	
	30	-5.864	-7.294	-8.843	-12.362	-14.961	-15.012	-13.246	-14.142	-15.097	-6.523	-2.929	-3.322	
	45	-5.938	-7.341	-5.931	-4.445	-5.812	-8.926	-15.521	-7.004	-4.364	-5.041	-1.227	0.989	
	60	-2.22	-3.878	-11.156	-17.538	-22.037	-10.487	-6.295	-7.661	-5.157	-3.692	-2.565	-5.489	
	75	-2.039	-3.386	-4.064	-2.908	-6.634	-7.082	-6.032	-4.423	-1.997	-1.524	-4.09	-1.531	
	90	-2.589	-1.911	-3.89	-0.729	-2.322	-6.353	-0.761	-14.376	-7.588	-1.931	0.876	-1.586	
	105	-4.474	-5.833	-4.624	-3.888	-3.266	-7.003	-2.5	-2.372	-1.886	-3.578	-7.093	-5.151	
	120	-4.147	-7.761	-12.172	-9.635	-11.079	-8.862	-12.133	-11.742	-8.921	-4.761	-3.144	-3.558	
	135	-6.193	-8.108	-9.857	-10.281	-11.999	-7.683	-4.206	-2.476	-2.056	-3.451	-5.753	-6.683	
	150	-8.375	-7.201	-5.699	-5.465	-5.395	-4.732	-4.122	-2.788	-1.343	-1.077	-1.937	-2.716	
	165	-8.665	-7.427	-7.311	-7.547	-8.142	-8.689	-9.206	-9.738	-10.706	-12.184	-13.925	-14.026	
	180	-10.092	-9.824	-9.708	-9.92	-10.601	-11.844	-13.898	-16.045	-15.974	-14.46	-12.544	-10.957	
	195	-10.872	-8.042	-6.242	-5.802	-5.83	-5.441	-4.654	-4.499	-5.481	-7.796	-11.188	-11.756	
	210	-1.41	0.237	0.391	-1.587	-5.886	-6.998	-4.009	-2.561	-2.482	-3.594	-5.722	-8.137	
	225	-1.98	1.205	2.461	1.571	-2.434	-5.472	-3.39	-3.836	-5.247	-5.5	-6.581	-6.424	
	240	-7.468	-8.088	0.708	2.799	0.958	0.286	0.976	-0.374	-2.951	-3.594	-2.54	-3.568	
	255	-1.255	2.251	2.312	0.052	0.819	2.02	1.893	1.093	1.559	2.351	2.037	1.065	
	270	-6.138	-9.525	1.366	1.211	-2.075	2.676	4.317	1.621	0.645	1.827	1.471	-0.418	
	285	0.58	0.662	2.448	4.698	4.928	1.949	1.689	1.442	-2.398	-1.912	1.797	1.663	
	300	-13.766	-8.12	-1.61	-0.976	1.419	3.417	2.21	0.195	-1.747	-4.437	-3.802	-2.609	
	315	-0.139	-4.691	-9.91	-6.575	-11.586	-8.21	-2.976	-3.631	-8.551	-28.424	-11.511	-7.689	
	330	-6.058	-7.307	-6.886	-5.137	-5.797	-9.729	-18.408	-21.447	-14.577	-8.324	-5.562	-5.204	
	345	-5.367	-7.531	-10.646	-11.393	-13.051	-16.704	-21.272	-28.015	-28.099	-18.599	-12.489	-7.681	
	360	-15.082	-14.938	-14.568	-14.109	-13.693	-13.413	-13.314	-13.413	-13.693	-14.109	-14.568	-14.938	

[illegible]