

Antenna Composite Gain Test Report

1. Test Information

Equipment	satimo
Brand Name	Nokia
Model Name	Beacon3.1
Applicant	Nokia
Manufacturer	Nokia

2. Testing Location

Testing Location	
DZZ	ADD: No. 198, zhangheng Road,shanghai Province, China

Test Condition	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	Longxiang Tong	20-24 / 45-60	09.08.2023~09.09.2023

3. Test Frequency

Band (MHz)	Test Frequency (MHz)
2400-2500	2400 / 2450 / 2500
5150-5850	5150 / 5550 / 5850

4. Antenna Information

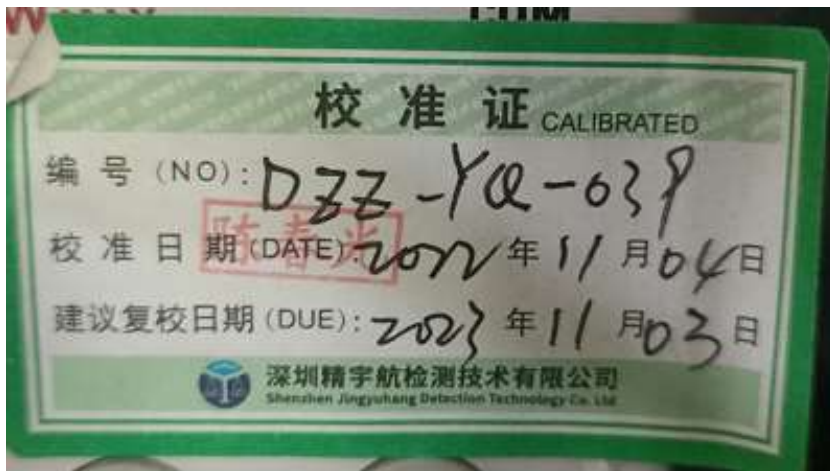
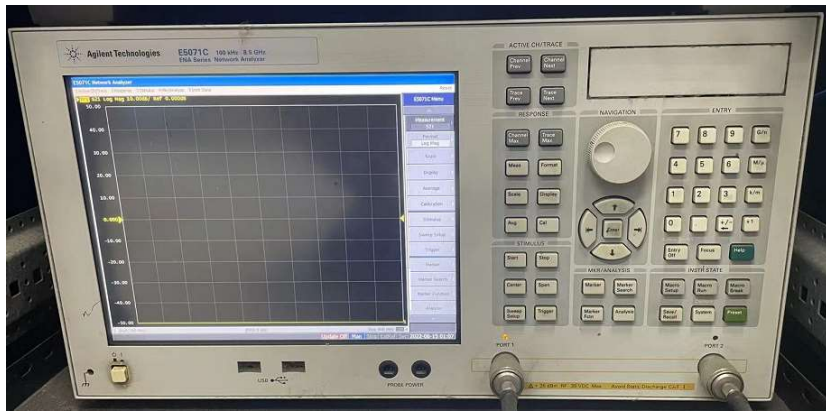
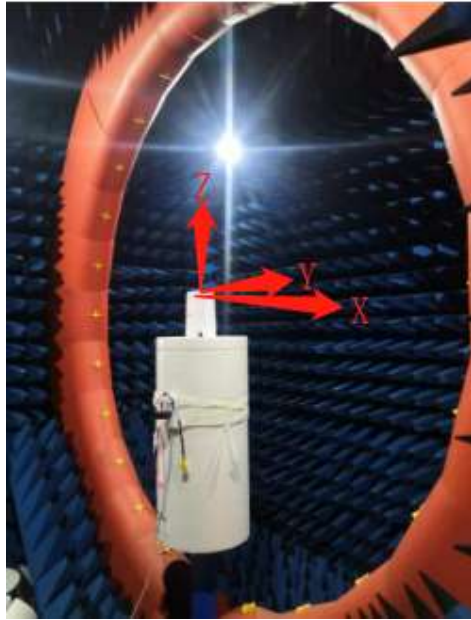
Ant. Position	Brand Name	Model Name	Ant. Type	Connector
Antenna 1 (2.4G)	Nokia		Dipole	I-PEX
Antenna 2 (2.4G)	Nokia		Dipole	I-PEX
Antenna 3 (2.4G)	Nokia		Dipole	I-PEX
Antenna 4 (5G)	Nokia		Dipole	I-PEX

Antenna 5 (5G)	Nokia		Dipole	I-PEX
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5. Test Configuration



6. Reference Calibration



7. Test Method

The antenna gain measurement method is gain comparison method, Calculation of gain by comparison with standard horn antenna, The standard horn antenna has been measured in the measurement institution.

8. Measured Values and Calculation of Correlated /

Uncorrelated Gains

Antenna Peak Gain Table (Ant. Position: 2.4G Ant.1~3)

Band (MHz)	2400-2500		
Frequency (MHz)	2400	2450	2500
Ant.1 Max Gain (dBi)	2.45	2.54	2.49
Ant.2 Max Gain (dBi)	2.52	2.62	2.64
Ant.3 Max Gain (dBi)	2.39	2.34	2.34
Max Gain (dBi)	2.52	2.62	2.64

Antenna Peak Gain Table (Ant. Position: 5G Ant.4~5)

Band (MHz)	5150-5850		
Frequency (MHz)	5150	5550	5850
Ant.4 Max Gain (dBi)	2.64	2.84	2.76
Ant.5 Max Gain (dBi)	2.54	2.74	2.71
Max Gain (dBi)	2.64	2.84	2.76

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

Maximum Correlated / Uncorrelated Gain Calculation

(Ant. Position: 2.4G Ant.1~3)

Frequency (MHz)	2400	2450	2500
Ant.1 Gain (dBi)	2.45	2.54	2.49
Ant.2 Gain (dBi)	2.52	2.62	2.64
Ant.3 Gain (dBi)	2.39	2.34	2.34
Phi (°)	135	150	45
Theta (°)	180	15	165
Beamforming	3.89	3.98	4.06
非 Beamforming (CDD MODE)	3.89	3.98	4.06

(Ant. Position: 5G Ant.4~5)

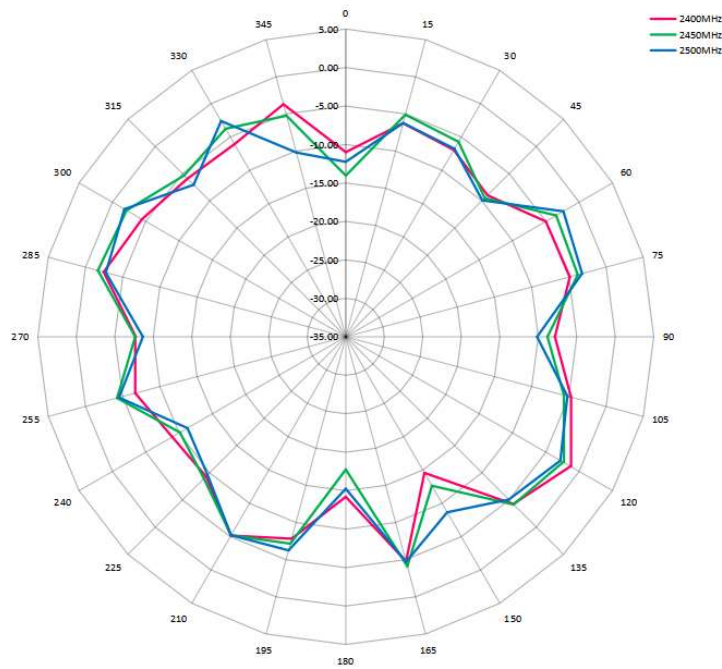
Frequency (MHz)	5150	5550	5850
Ant.1 Gain (dBi)	2.64	2.84	2.76
Ant.2 Gain (dBi)	2.54	2.74	2.71
Ant.3 Gain (dBi)	2.64	2.84	2.76
Phi (°)	180	165	150
Theta (°)	300	135	45

Beamforming	3.88	3.78	3.94
非 Beamforming (CDD MODE)	3.88	3.78	3.94

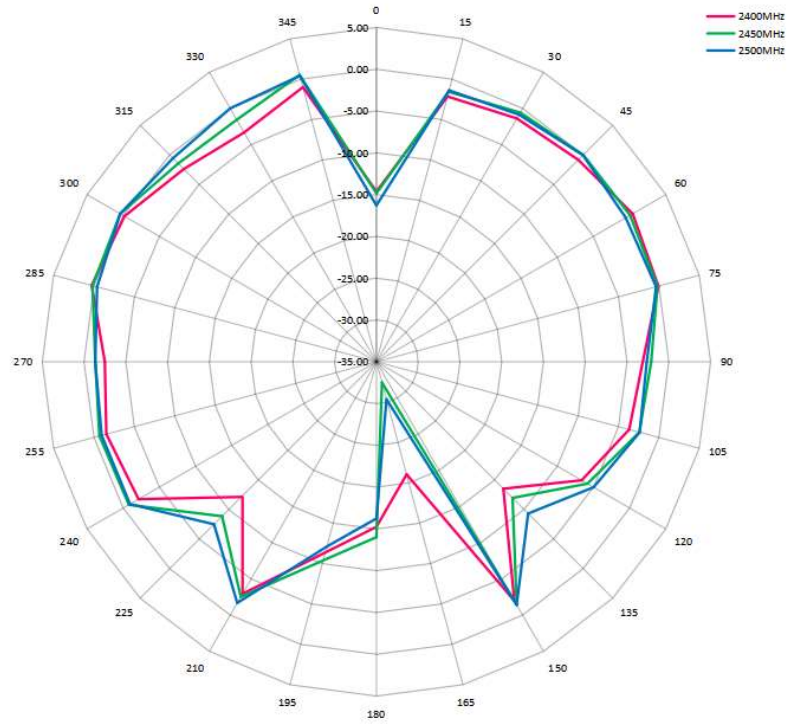
9. Radiation Pattern

Ant. Position: 2.4G Ant.1~3

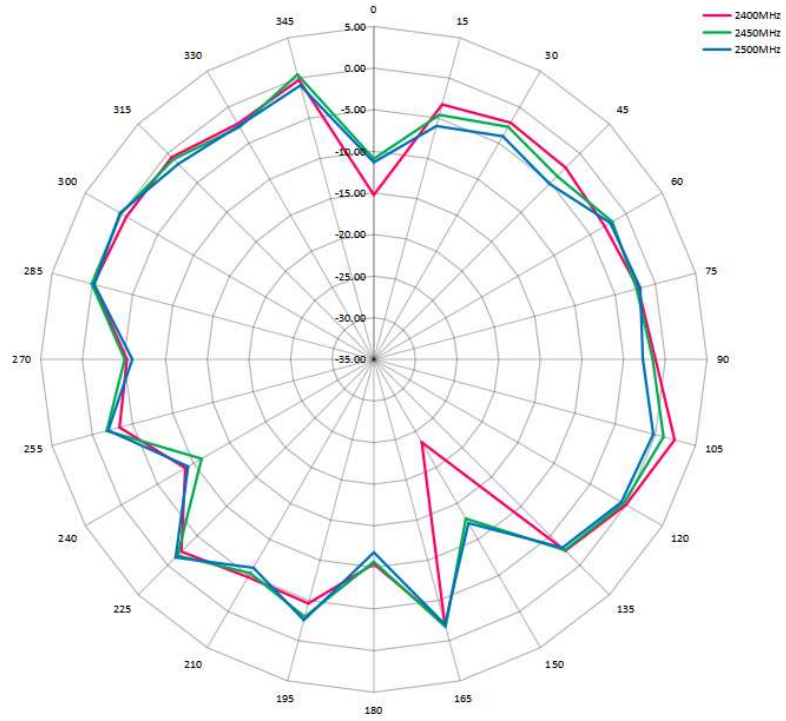
XY_Pol._Phi_Ant.1



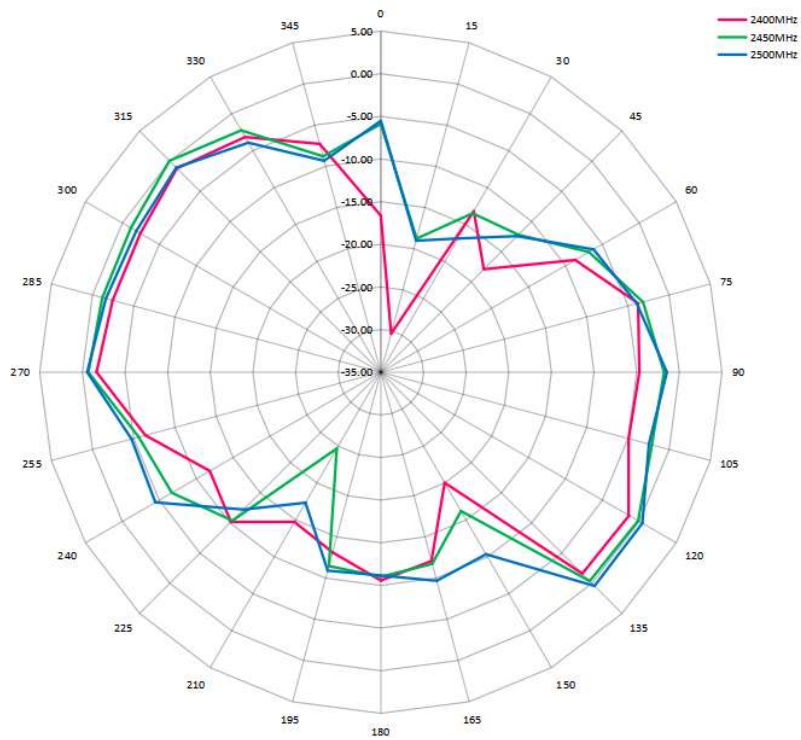
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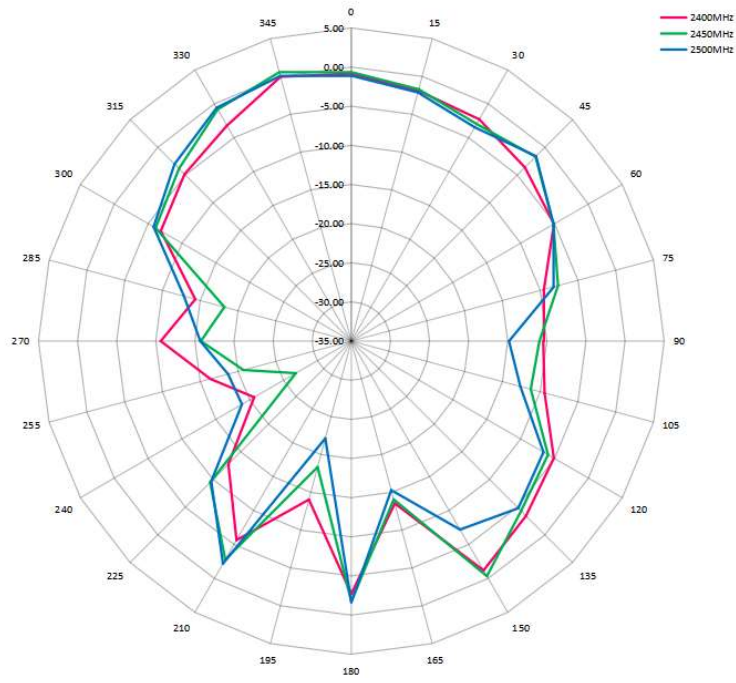
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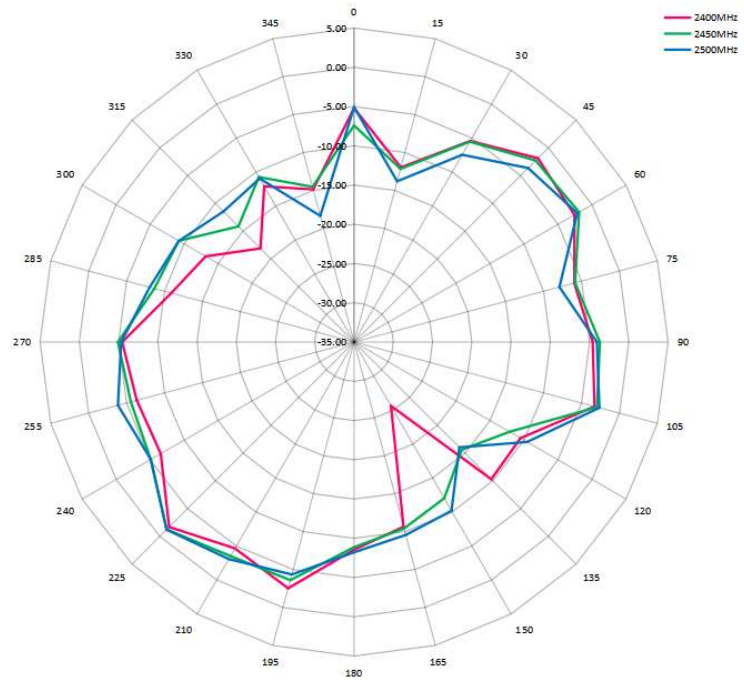
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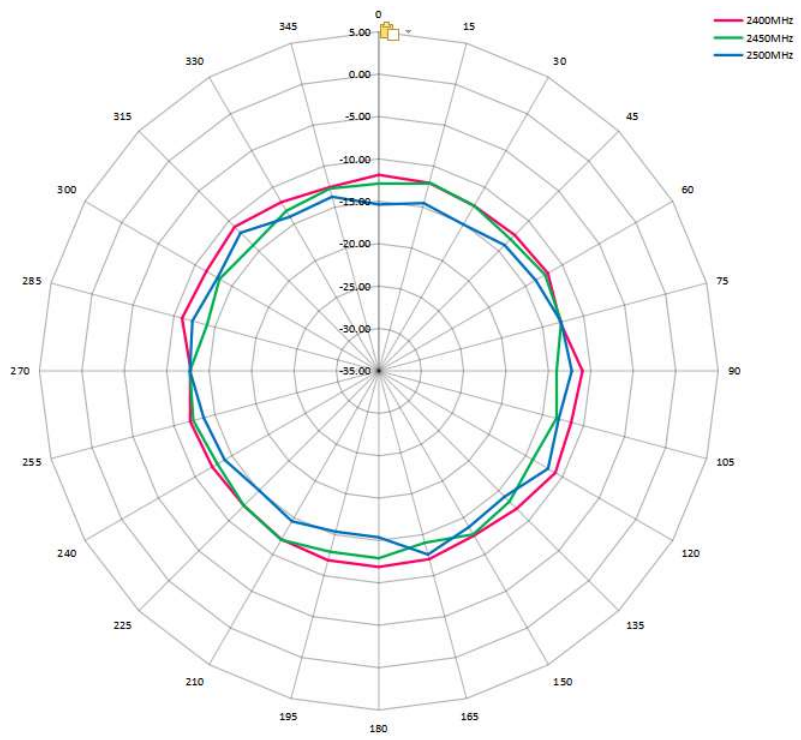
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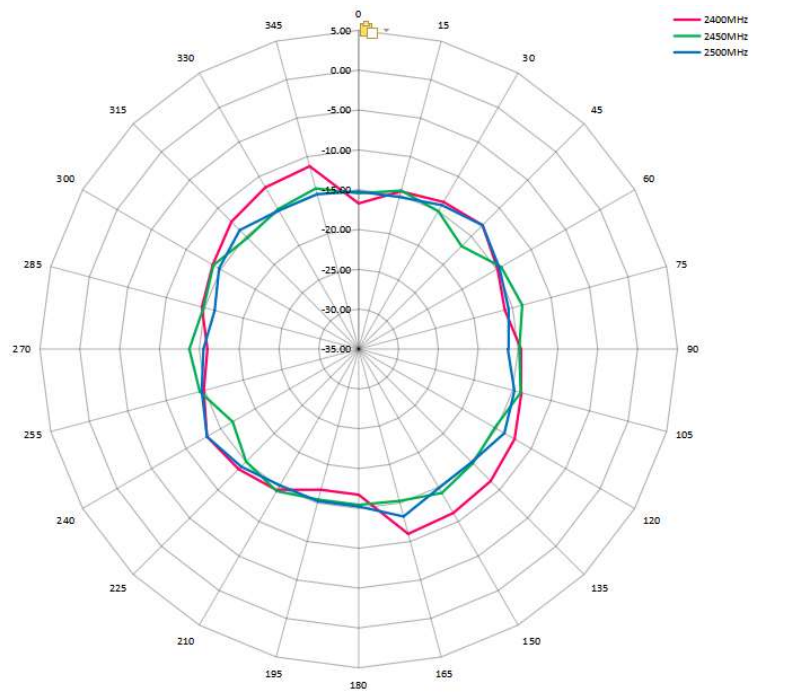
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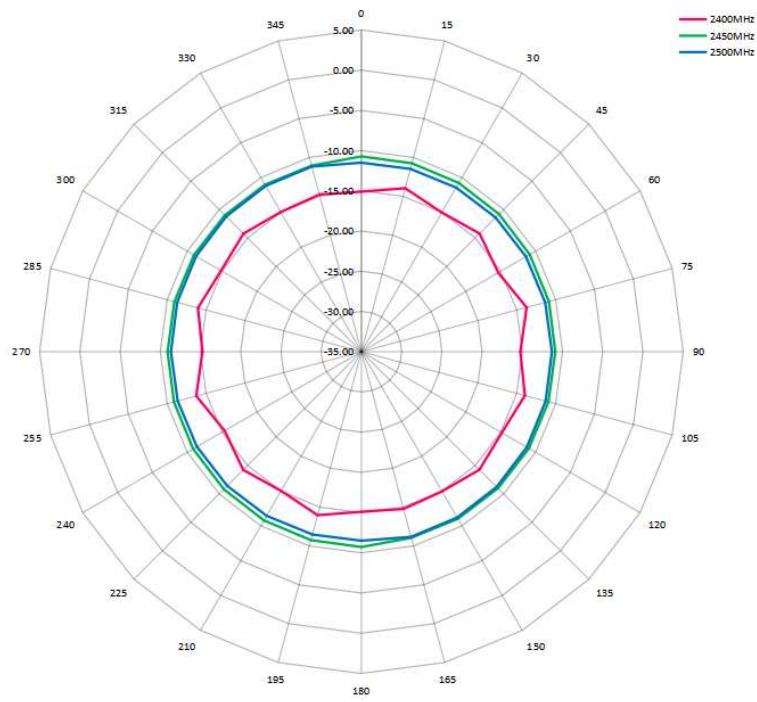
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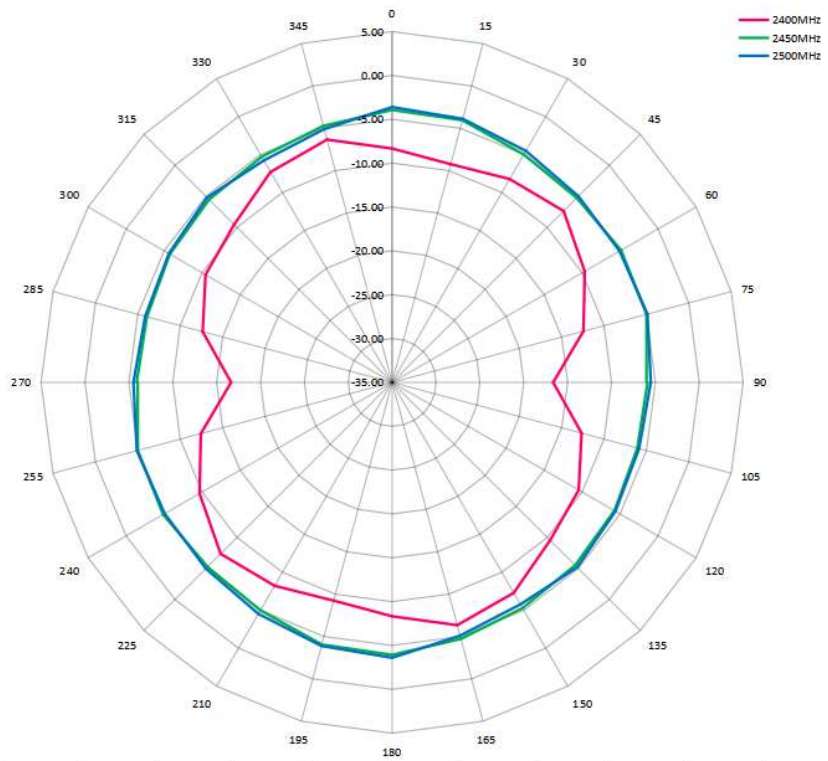
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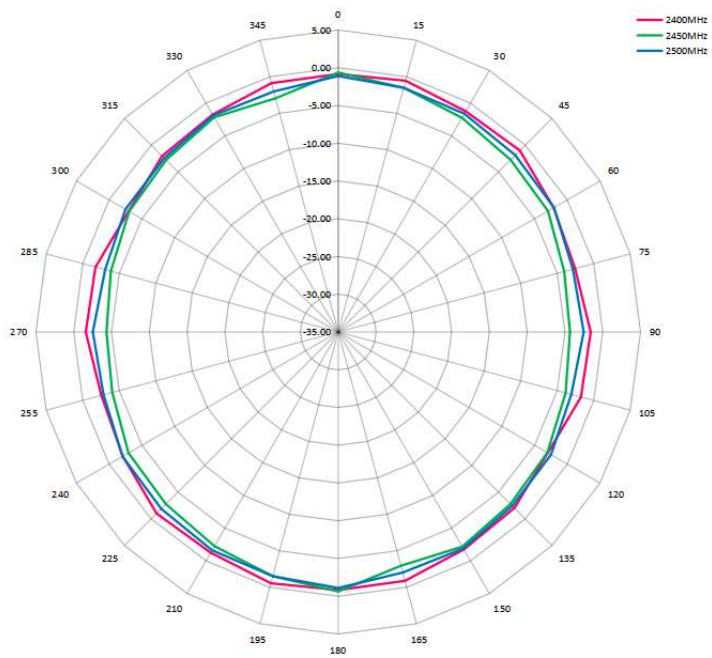
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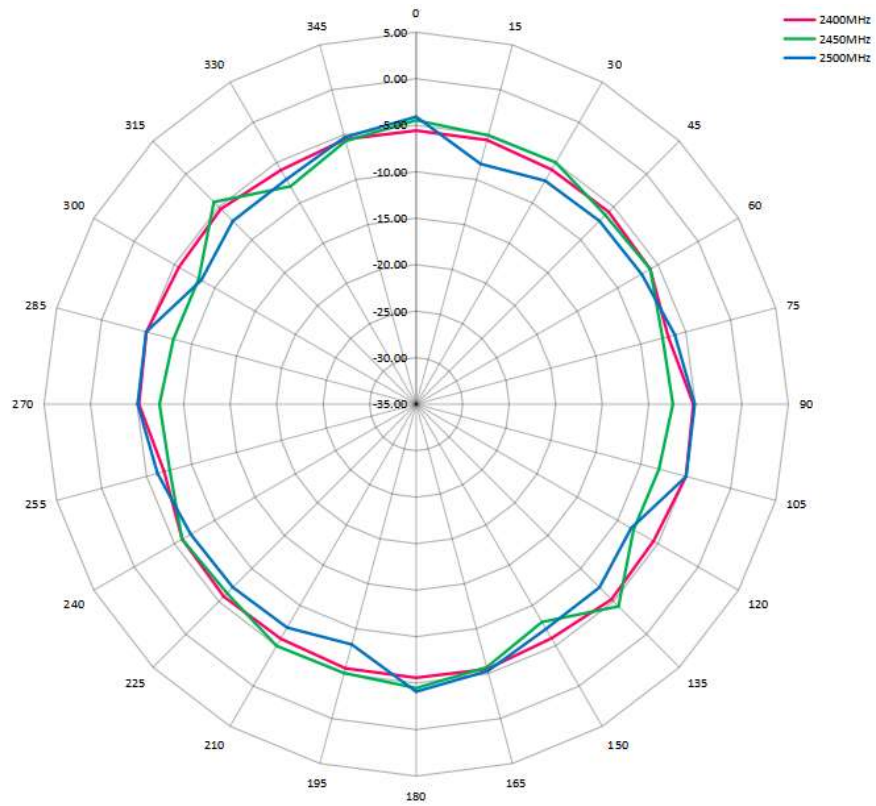
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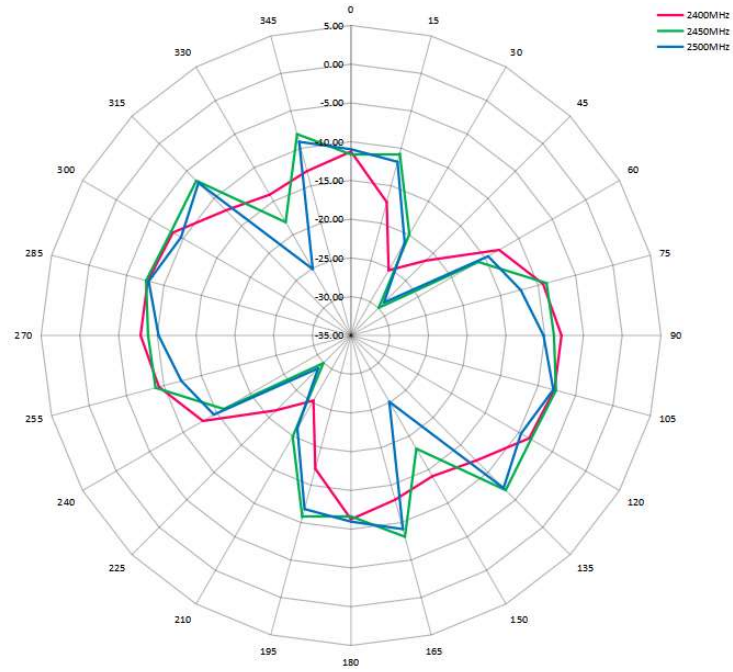
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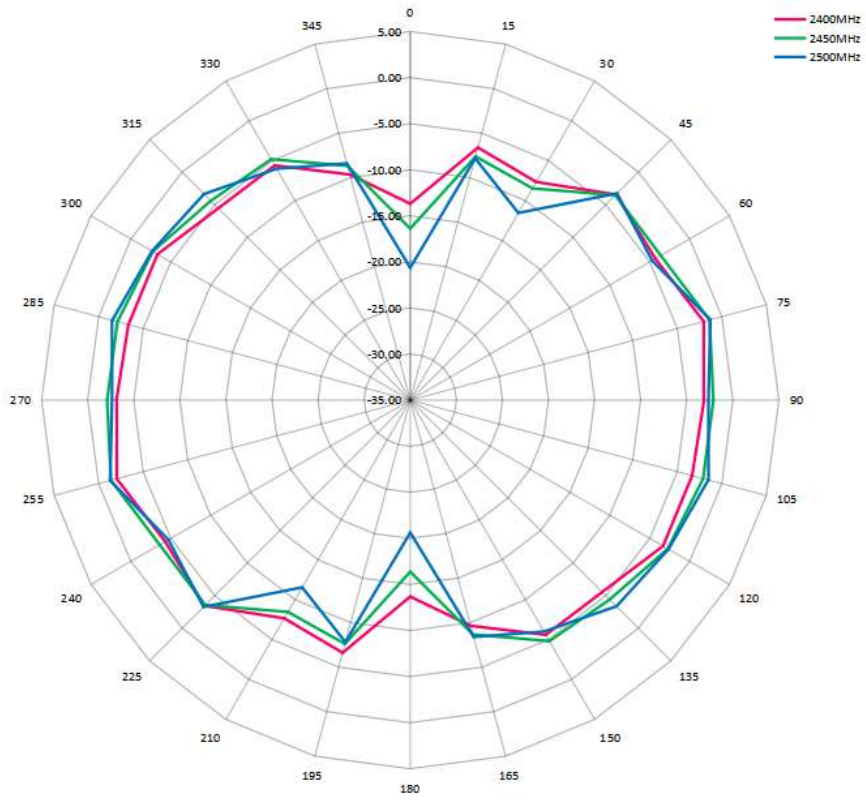
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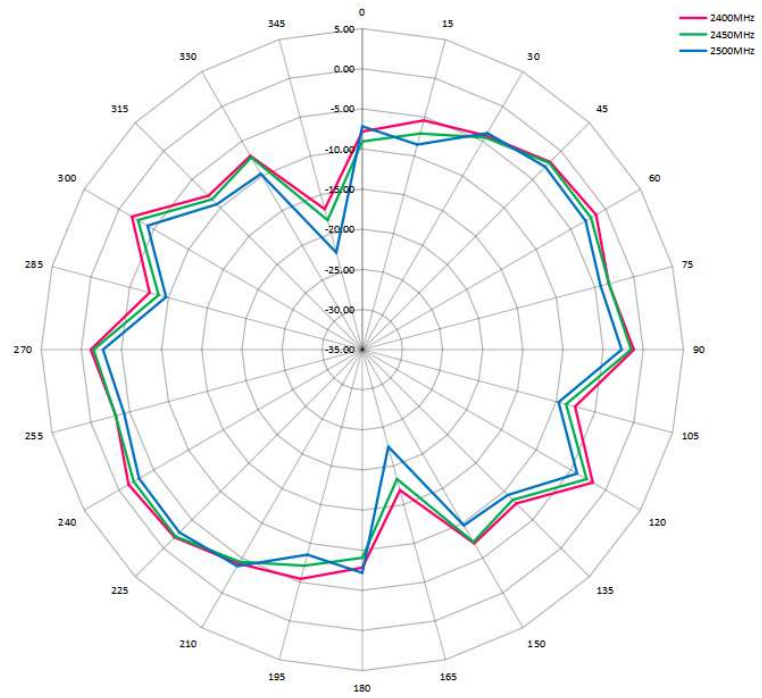
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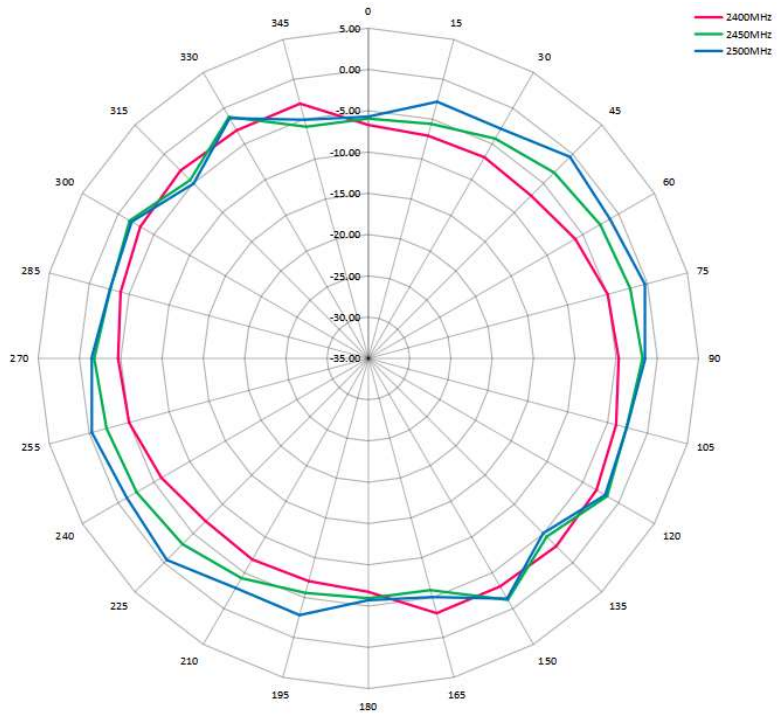
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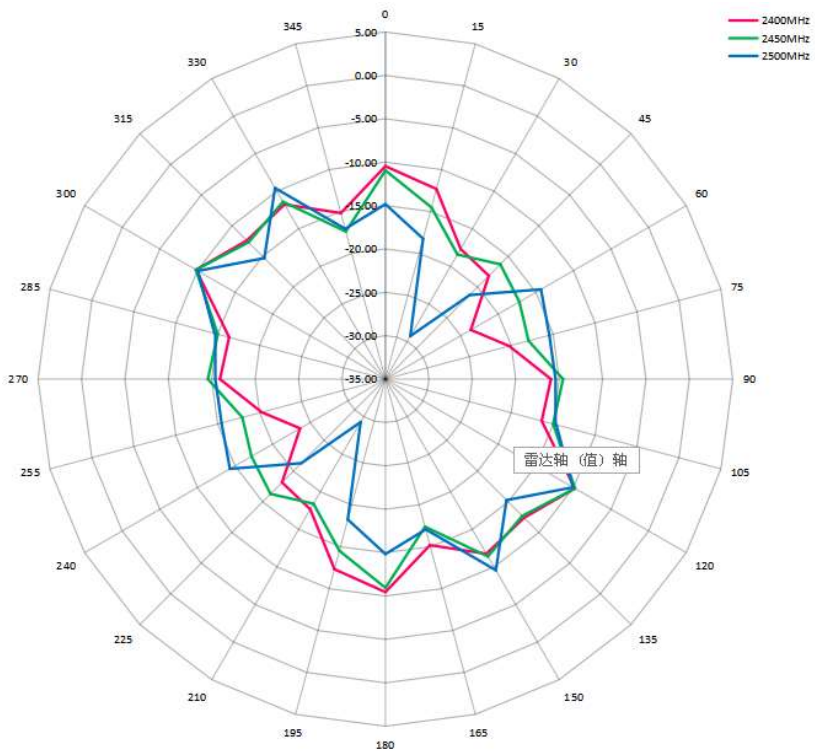
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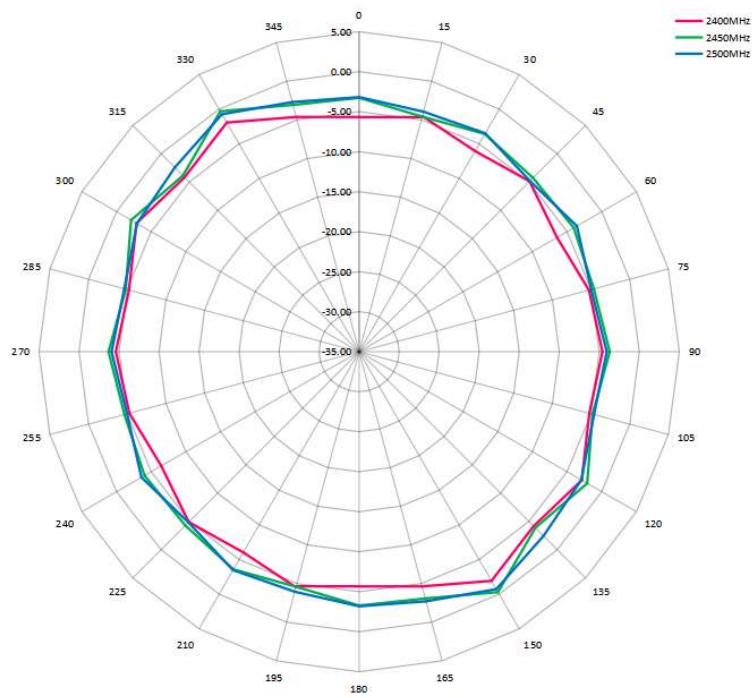
YZ_Pol._theta_Ant.1



YZ_Pol_theta_Ant.2

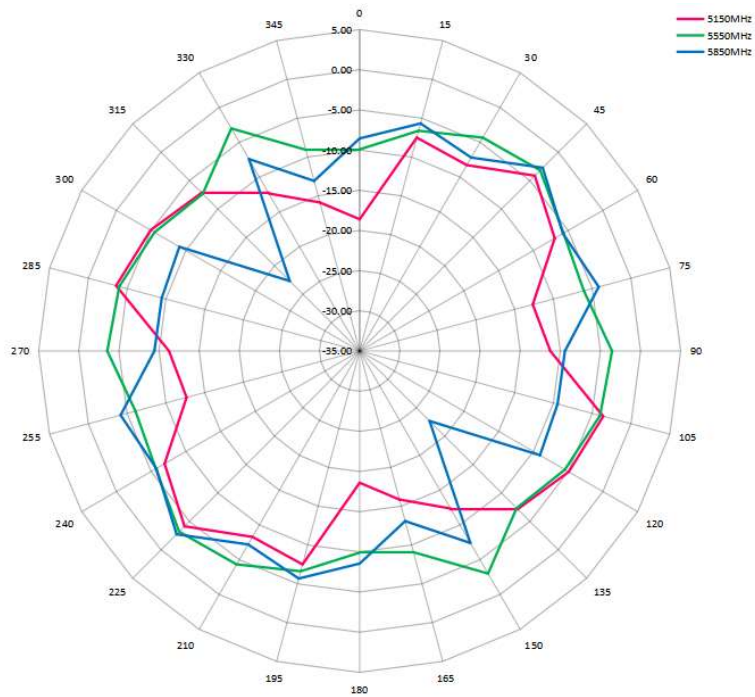


YZ_Pol._theta_Ant3

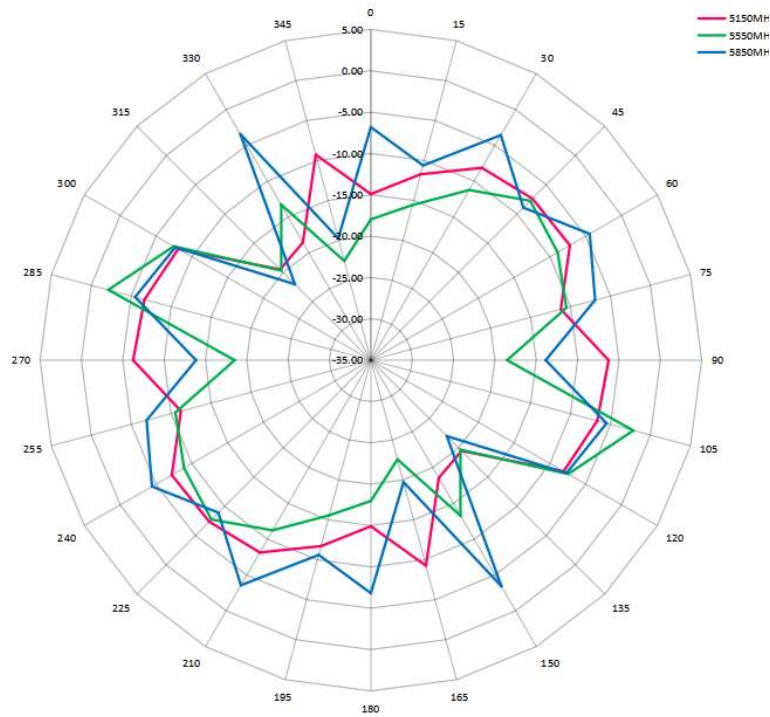


Ant. Position: 5G Ant.4~5

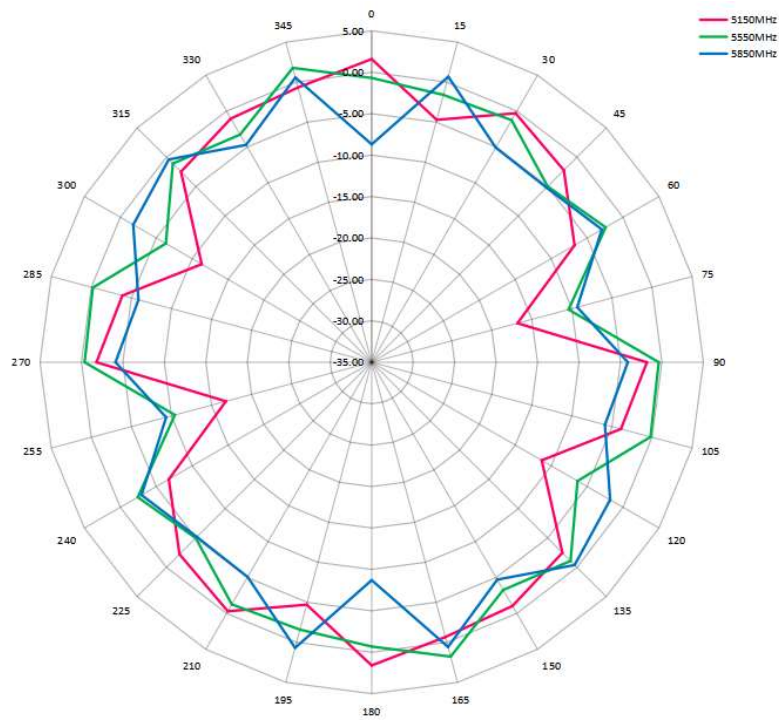
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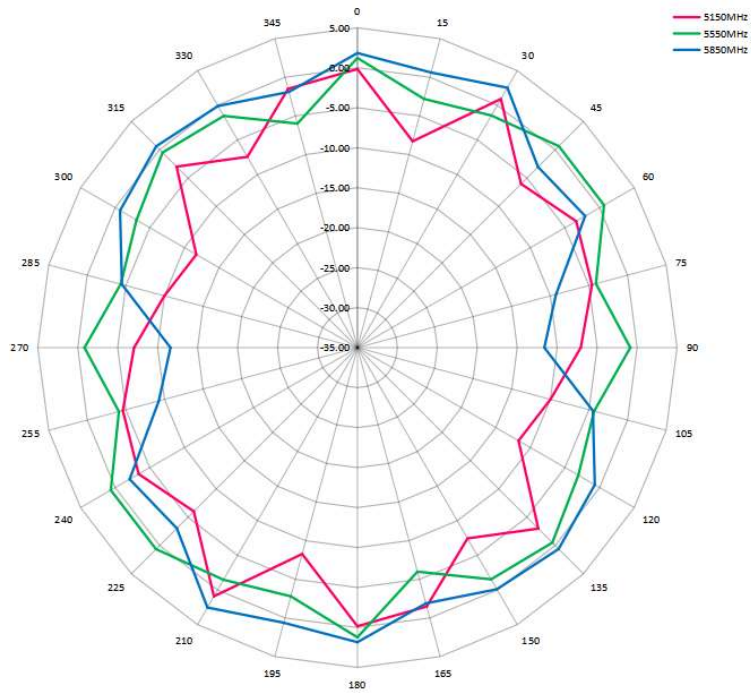
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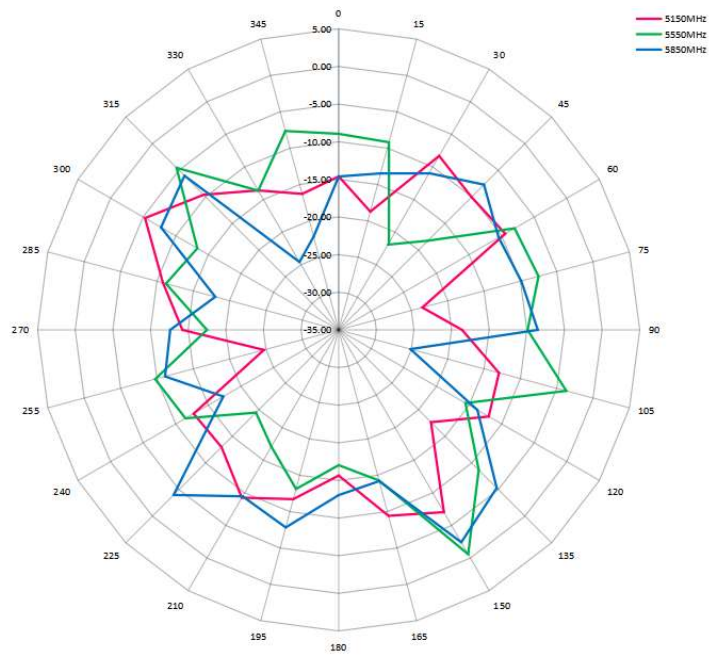
XY_Pol._theta_Ant.4



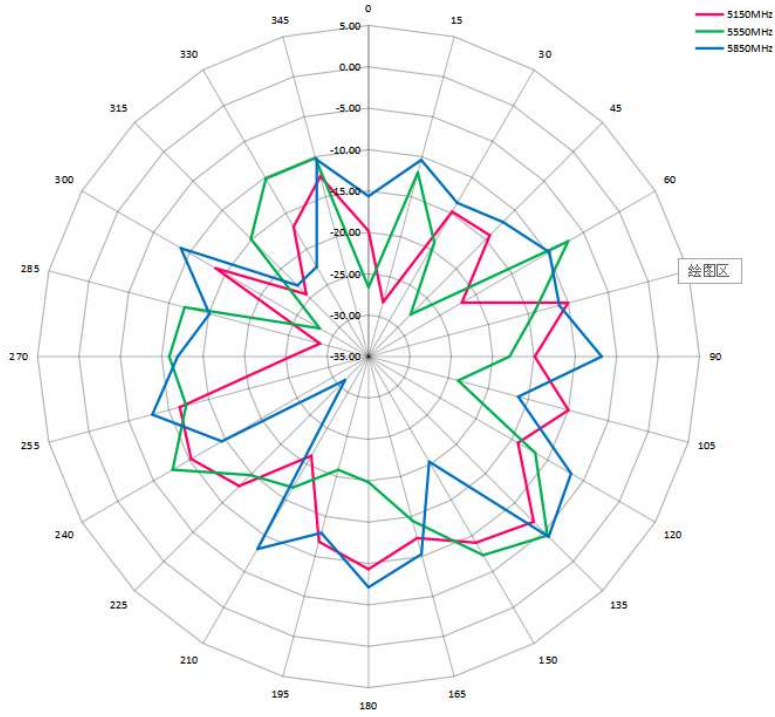
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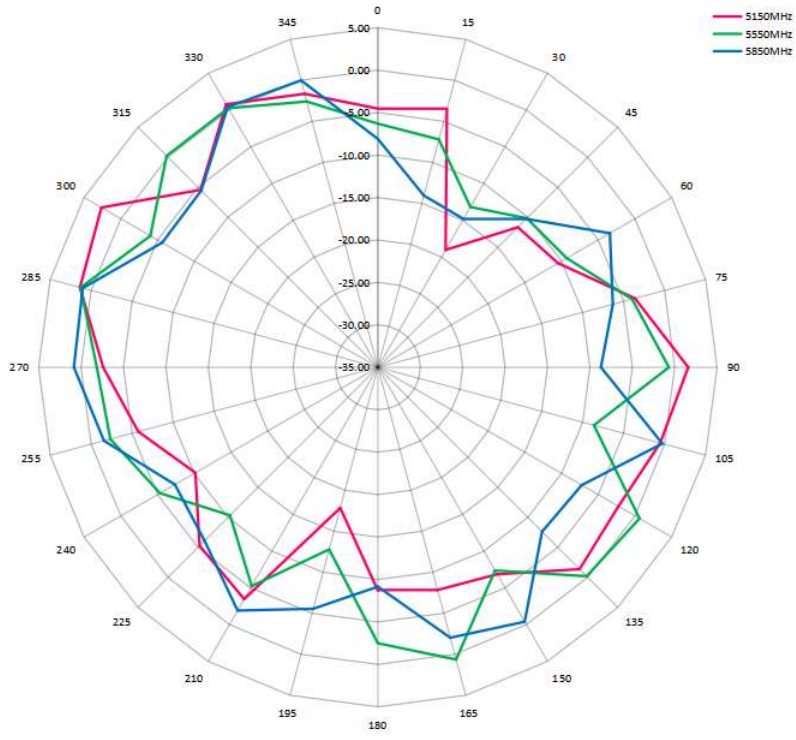
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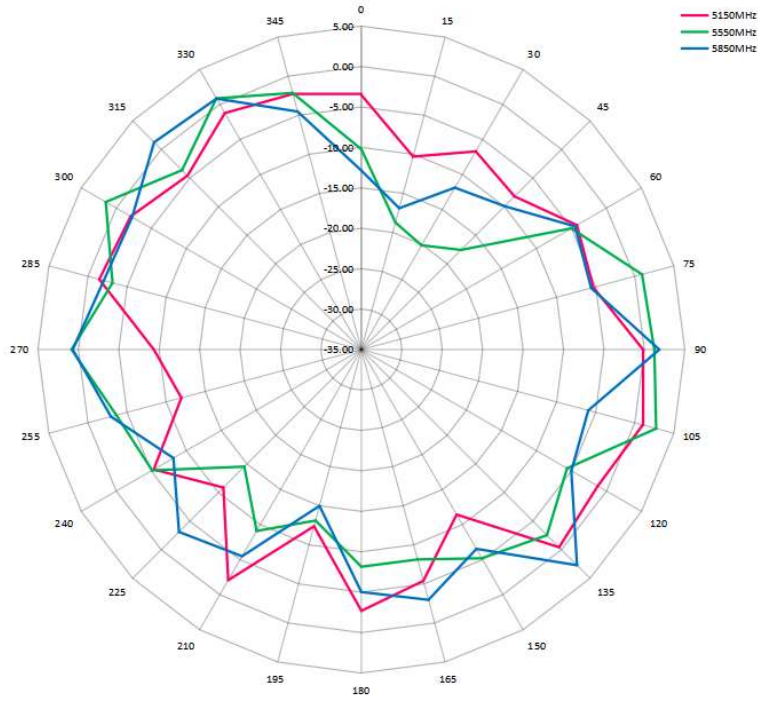
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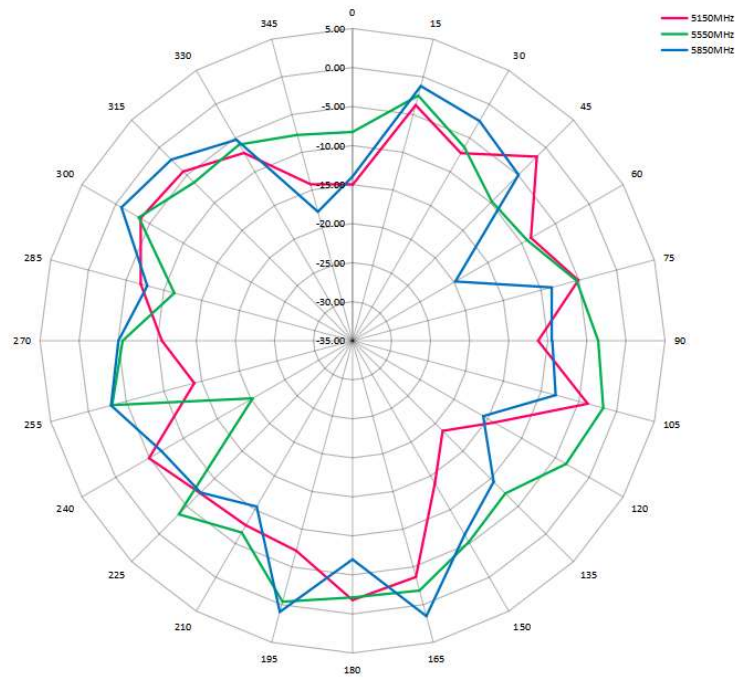
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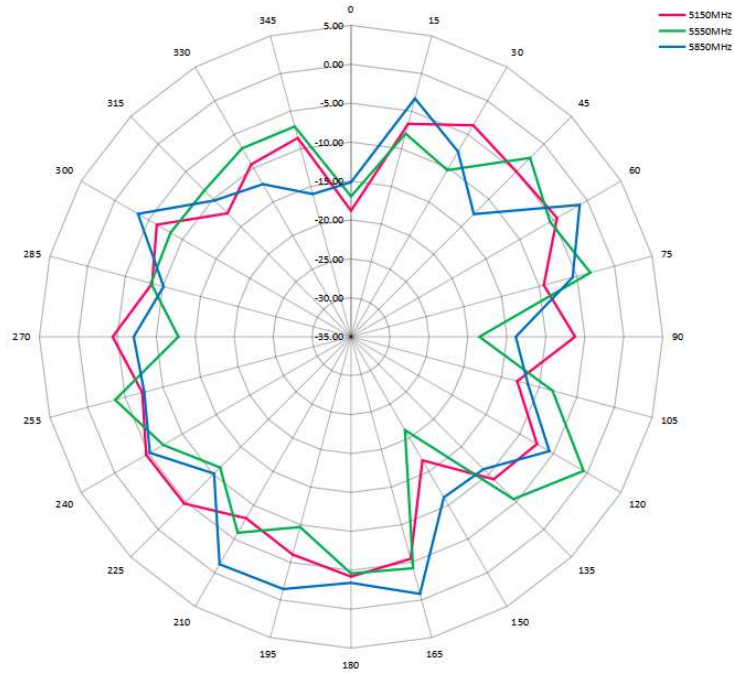
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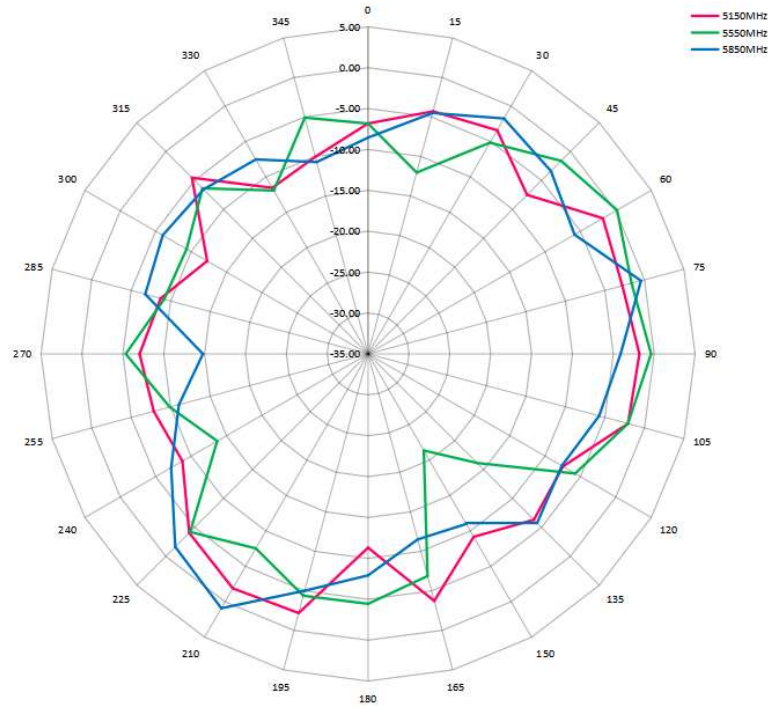
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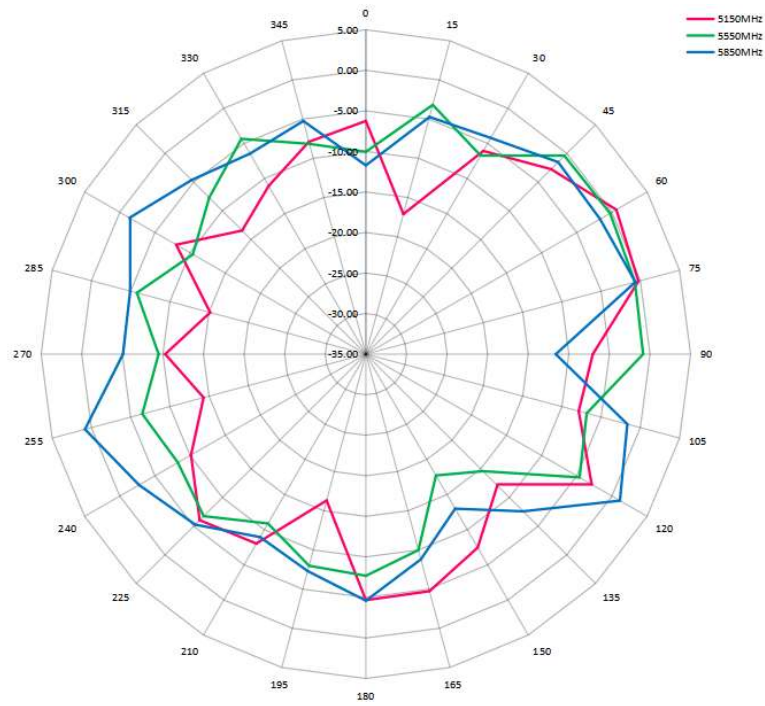
YZ_Pol._Phi_Ant.5



YZ_Pol_theta_Ant.4



YZ_Pol_theta_Ant.5



Appendix _Radiated Total Gain Result

Ant. Position: 2.4G Ant.1_GAIN PHI

Frequency	Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
2400	0	-11.88	-12.05	-12.52	-12.34	-11.98	-12.85	-10.99	-11.52	-10.97	-12.02	-12.97	-12.02	-11.88
2400	15	-9.42	-9.96	-8.97	-8.29	-6.57	-6.76	-6.25	-6.08	-6.2	-7.76	-8.3	-8.27	-9.42
2400	30	-5.75	-8.61	-11.82	-11.56	-9.69	-7.91	-6.95	-6.2	-6.74	-8.7	-9.54	-10.59	-5.75
2400	45	-10.18	-12.3	-15.25	-18.39	-15.31	-11.89	-8.97	-8.99	-7.51	-6.5	-7.16	-9.23	-10.18
2400	60	-14.5	-24.95	-16.77	-10.7	-8.47	-6.32	-5	-4.7	-5.22	-6.37	-6.46	-5.55	-14.5
2400	75	-15.24	-19	-31.16	-13.81	-8.38	-6.55	-4.88	-4	-3.92	-4.3	-4.74	-5.68	-15.24
2400	90	-11.28	-17.19	-25.3	-21.34	-12.93	-9.34	-7.84	-7.84	-8.46	-12.17	-14.02	-13.05	-11.28
2400	105	-14.62	-22.99	-12.78	-9.37	-7.23	-5.8	-4.71	-4.17	-3.76	-4	-3.34	-2.64	-14.62
2400	120	-17.79	-16.38	-10.19	-7.19	-3.96	-2.28	-1.31	-0.61	0.05	0.09	0.06	0.01	-17.79
2400	135	-23.58	-16.14	-11.19	-10.85	-9.51	-6.79	-4.25	-2.18	-1.28	-0.84	-1.62	-1.95	-23.58
2400	150	-15.15	-11.43	-9.52	-8.78	-8.91	-10.82	-14.57	-16.8	-14.35	-11.95	-11.25	-13.17	-15.15
2400	165	-12.81	-12.82	-11.05	-8.89	-6.89	-5.63	-4.78	-3.77	-3.14	-3.58	-4.49	-4.89	-12.81
2400	180	-18	-17.02	-16.47	-15.21	-14.47	-17.26	-14.2	-13.74	-14.39	-15.74	-14.52	-14.63	-18
2400	195	-20.95	-18.48	-15.26	-12.76	-11.54	-9.83	-7.83	-5.61	-4.6	-4.24	-5.13	-5.16	-20.95
2400	210	-9.09	-9.1	-9.43	-8.61	-8.26	-6.86	-5.16	-6.18	-6.89	-7.43	-7.43	-8.58	-9.09
2400	225	-4.18	-6.31	-10.56	-18.22	-22.94	-14.55	-9.33	-5.34	-3.86	-4	-7.63	-16.4	-4.18
2400	240	-5.2	-7.12	-12.74	-22.76	-13.18	-9.93	-8.97	-8.81	-9.54	-12.36	-14.14	-16.22	-5.2
2400	255	-6.5	-9.87	-14.77	-15.38	-10.74	-8.42	-6.69	-6.23	-5.82	-6.19	-7.53	-7.21	-6.5
2400	270	-10.53	-14.37	-19.68	-27.62	-13.58	-9.05	-7.73	-9.04	-8.7	-8.37	-7.27	-8.58	-10.53
2400	285	-22.1	-20.46	-12.91	-8.69	-5.39	-3.14	-2.44	-2.49	-3.27	-3.95	-4.78	-5.22	-22.1
2400	300	-23.14	-20.79	-18.79	-15.43	-10.08	-6.85	-4.43	-3.56	-3.37	-3.29	-3.4	-4.29	-23.14
2400	315	-12.15	-15.49	-21.51	-16.71	-11.71	-8.07	-5.92	-5.77	-5.75	-7.15	-9.75	-12.51	-12.15
2400	330	-8.65	-10.91	-19.41	-19.16	-11.11	-8.1	-6.08	-3.82	-2.95	-2.55	-3.43	-5.17	-8.65
2400	345	-11.67	-14.01	-15.26	-13.34	-10.04	-6.22	-3.7	-2.16	-2.06	-3.1	-4.69	-6.23	-11.67
2400	360	-11.88	-12.05	-12.52	-12.34	-11.98	-12.85	-10.99	-11.52	-10.97	-12.02	-12.97	-12.02	-11.88
2450	0	-12.91	-11.99	-12.52	-13.04	-12.36	-12.74	-14.04	-13.32	-14.05	-13.21	-12.74	-14.02	-12.91
2450	15	-12.76	-14.29	-10.47	-12.61	-5.71	-9.43	-5.1	-2.97	-5.9	-2.5	-8.46	-6.96	-12.76
2450	30	-7.81	-8.96	-13	-13.96	-9.11	-6.28	-5.72	-2.11	-6.94	-1.53	-8.06	-4.86	-7.81
2450	45	-6.22	-14.53	-17.24	-19	-16.94	-7.82	-9.49	-5.07	-7.62	-6.98	-6.79	-10.65	-6.22
2450	60	-14.69	-31.17	-17.03	-11.92	-6.55	-4.45	-3.45	-1.59	-3.89	-2.13	-7.52	-4.48	-14.69
2450	75	-16.13	-22.33	-20.44	-11.35	-7.41	-3.53	-3.81	-1.59	-3.48	-3.06	-4.74	-5.06	-16.13
2450	90	-11.65	-10.7	-19.94	-29.95	-16.03	-8.88	-8.81	-7.62	-8.19	-6.77	-18.13	-8.11	-11.65
2450	105	-14.99	-11.38	-16.09	-13.76	-8.63	-5.74	-5.67	-4.19	-3.82	-4.7	-3.91	-5.65	-14.99
2450	120	-17.74	-9.61	-10.99	-24.34	-5.68	-9.46	-2.42	-10.45	-1.33	-14.37	0.02	-12.73	-17.74
2450	135	-28.85	-7.59	-13.04	-23.05	-10.04	-15.66	-4.17	-4.71	-0.81	-3.29	-1.91	-15.16	-28.85
2450	150	-13.3	-12.84	-9.1	-10.02	-8.34	-6.25	-12.64	-5.21	-12.19	-7.18	-9.58	-9.45	-13.3
2450	165	-11.51	-23.67	-9.28	-14.55	-5.87	-10.43	-4.11	-4.89	-3.15	-3.53	-4.31	-7.13	-11.51
2450	180	-20.24	-17.95	-18.85	-17.37	-15.88	-16.59	-17.75	-16.32	-15.25	-14.02	-13.04	-13.07	-20.24
2450	195	-20.06	-11.2	-18.43	-7.12	-14.48	-4.28	-7.16	-3.91	-4.11	-3.44	-8.52	-4.91	-20.06
2450	210	-13.17	-11.16	-12.5	-7.74	-8.41	-9.82	-5.21	-14.51	-6.52	-10.54	-8.07	-11.12	-13.17
2450	225	-4.72	-16.22	-11.87	-11.28	-40.23	-6.71	-8.94	-2.36	-2.64	-1.17	-6.08	-2.56	-4.72
2450	240	-6.52	-15.52	-15.8	-7.17	-12.01	-3.16	-10.13	-2.01	-12.63	0.36	-12.96	0.02	-6.52
2450	255	-7.37	-20.56	-18.03	-11.54	-9.6	-7.12	-4.25	-4.47	-4.25	-3.28	-6.2	-3.05	-7.37
2450	270	-8.6	-17.16	-17.47	-31.5	-15.85	-10.55	-7.65	-7.74	-7.91	-11.53	-7.03	-14.37	-8.6
2450	285	-15.18	-24.17	-19.66	-11.62	-6.48	-5.44	-1.67	-3.13	-2.19	-5.36	-4.61	-4.89	-15.18
2450	300	-19.55	-18.58	-20.41	-11.18	-6.9	-4.55	-2.13	-3.08	-2.15	-5.46	-3.52	-6.6	-19.55
2450	315	-10.97	-10.38	-22.02	-29.01	-11.72	-12.49	-5.32	-8.4	-6.24	-6.99	-8.41	-8.01	-10.97
2450	330	-7	-11.5	-13.4	-11.04	-10.27	-6.38	-3.77	-6.01	-1.73	-8.34	-3.11	-8.57	-7
2450	345	-11.63	-13.44	-14.39	-8.38	-11.75	-5.71	-5.24	-5.09	-1.41	-7.78	-4.39	-9.16	-11.63
2450	360	-12.91	-11.99	-12.52	-13.04	-12.36	-12.74	-14.04	-13.32	-14.05	-13.21	-12.74	-14.02	-12.91
2500	0	-15.37	-14.52	-15.06	-14.02	-13.63	-12.74	-12.25	-13.05	-11.96	-14.02	-13.74	-12.58	-15.37
2500	15	-22.44	-13.93	-13.04	-10.3	-7.6	-12	-6.23	-6.87	-7.97	-4.34	-13.76	-7.41	-22.44
2500	30	-9.72	-8.78	-14.58	-10.22	-9.12	-5.69	-6.77	-1.34	-8.77	-1.67	-13.55	-5.02	-9.72
2500	45	-6.29	-10.66	-14.72	-18.78	-20.42	-10.11	-9.92	-5.7	-12.39	-5.77	-9.42	-10.6	-6.29
2500	60	-14.5	-29.4	-13.2	-11.31	-5.19	-3.81	-2.37	-0.93	-3.03	-2.52	-7.23	-5.49	-14.5
2500	75	-16.28	-22.92	-20.13	-10.55	-7.9	-4.2	-3.23	-2.23	-2.26	-3.77	-5.33	-5.5	-16.28
2500	90	-10.98	-11.81	-21.15	-29	-14.57	-12.33	-10.16	-7.97	-9.67	-7.16	-25.12	-9.13	-10.98
2500	105	-15.94	-12.51	-13.92	-16.74	-7.87	-6	-5.21	-4.11	-4.49	-5.18	-3.14	-5.66	-15.94
2500	120	-14.53	-8.71	-10.91	-24.84	-5.49	-10.51	-2.82	-11.49	-1.58	-13.85	0.49	-14.21	-14.53
2500	135	-28.04	-10.05	-11.76	-21.28	-8.64	-16.16	-5.07	-5.58	-2.8	-3.33	-3.51	-14.78	-28.04
2500	150	-11.07	-14.42	-7.86	-11.5	-6.4	-6.4	-8.66	-5.75	-12.69	-7.05	-11.16	-6.63	-11.07
2500	165	-13.62	-26.99	-11.67	-19.17	-6.46	-9.69	-4.72	-3.74	-3.23	-3.39	-4.29	-7.17	-13.62
2500	180	-24.6	-14.95	-15.85	-16.74	-15.85	-14.74	-15.25	-16.47	-14.95	-15.05	-14.77	-14.01	-24.6
2500	195	-16.97	-14.76	-26.44	-8.61	-15.19	-5.04	-6.26	-3.52	-2.99	-3.82	-4.85	-5.58	-16.97
2500	210	-17.29	-9.04	-12.72	-6.02	-8.88	-7.85	-5.21	-13.05	-6.8	-11.64	-6.28	-12.16	-17.29
2500	225	-6.71	-18.34	-16.72	-10.15	-23.86	-6.92	-9.61	-3.81	-2.72	-2.71	-6.25	-4	-6.71
2500	240	-6.32	-14.9	-14.78	-8.16	-11.92	-4.21	-11.26	-2.37	-14.22	-0.16	-11.99	0.49	-6.32
2500	255	-7.89	-29.81	-21.93	-9.77	-8.89	-6.88	-4.5	-4.81	-4.44	-3	-5.99	-3.33	-7.89
2500	270	-10.42	-17.81	-15.85	-23.63	-16.68	-11.98	-8.65	-9.38	-8.01	-13.11	-6.48	-20.3	-10.42
2500	285	-14.18	-25.38	-15.93	-12.03	-6.87	-5.14	-2.74	-2.3	-2.78	-4.16	-4.41	-6.16	-14.18
2500	300	-16.19	-17.34	-15.01	-8.4	-6.66	-3.33	-1.8	-2.63	-1.7	-4.63	-4.27	-6.78	-16.19
2500	315	-8.49	-10.83	-15.34	-33.73	-13.71	-12.38	-7.05	-11.12	-5.51	-10.53	-7.01	-10.04	-8.49
2500	330	-8.78	-11.75	-9.48	-11.67	-8.64	-7.74	-2.61	-8.18	-1.25	-11.02	-3.55	-13.8	-8.78
2500	345	-12.13	-21.19	-12.14	-9.29	-10.32	-6.8	-10.2	-6.93	-3.74	-11.05	-5.39	-14.11	-12.13
2500	360	-15.37	-14.52	-15.06	-14.02	-13.63	-12.74	-12.25	-13.05	-11.96	-14.02	-13.74	-12.58	-15.37

Ant. Position: 2.4G Ant.1_GAIN THETA

Frequency	Phi#Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
2400	0	-6.33	-9.24	-6.22	-7.38	-9.88	-12.43	-16.85	-12.85	-10.45	-9.54	-7.29	-6.34	-6.33
2400	15	-12.29	-10.29	-9.19	-9.82	-12.78	-19.44	-30.32	-17.4	-16.02	-14.82	-9.07	-6.42	-12.29
2400	30	-17.6	-25.24	-43.14	-28.57	-28.23	-19.63	-13.2	-9.28	-7.27	-7.23	-6.82	-6.08	-17.6
2400	45	-12.48	-12.35	-14.37	-19.29	-21.42	-29.1	-17.92	-12.74	-10.57	-8.6	-9.2	-6.07	-12.48
2400	60	-11.28	-11.48	-10.98	-9.17	-8.27	-7.93	-6.88	-7.86	-6.81	-6.81	-6.77	-6.72	-11.28
2400	75	-8.28	-4.92	-6.11	-4.3	-4.33	-3.88	-3.77	-3.48	-3.32	-4.13	-3.63	-3.21	-8.28
2400	90	-6.72	-7.07	-6.87	-7.12	-8.08	-4.99	-4.88	-3.93	-3.1	-2.82	-3.1	-3.05	-6.72
2400	105	-5.08	-5.21	-4.48	-4	-3.28	-3.81	-4.92	-5.24	-8.88	-8.8	-8.07	-5.04	-5.08
2400	120	-4.22	-2.21	-0.01	0.47	0.81	-0.2	-1.39	-3.17	-6.18	-7.9	-8.99	-10.23	-4.22
2400	135	-4.28	-4.83	-3.34	-1.5	-1.2	-0.91	-1.6	-2.41	-3.9	-6.88	-7.29	-7.29	-4.28
2400	150	-2.24	-2.07	-3.2	-5.27	-8.48	-13.23	-20.03	-28.82	-18.8	-30.54	-21.23	-12.97	-2.24
2400	165	-9.41	-10.88	-11.23	-10.54	-11.82	-11.4	-12.08	-12.31	-12.44	-10.98	-10.29	-10.88	-9.41
2400	180	-14.02	-17.34	-20.85	-18.38	-21.55	-17.18	-10.57	-7.85	-7.33	-5.25	-6.35	-9.55	-14.02
2400	195	-15.72	-18.89	-22.19	-25.71	-24.89	-19.13	-13.13	-9.09	-6.8	-6.52	-6.53	-11.68	-15.72
2400	210	-12.82	-10.57	-9.44	-8.53	-8.42	-9.58	-14.73	-16.83	-10.71	-11.08	-8.51	-5.47	-12.82
2400	225	-13.79	-14.44	-12.82	-9.14	-7.39	-7.6	-10.15	-7.88	-3.4	1.01	2.45	1.38	-13.79
2400	240	-2.81	-2.71	-4.4	-5.85	-5.49	-7.34	-11.84	-13.8	-9.1	-5.88	-5.53	-5.28	-2.81
2400	255	-4.95	-4.07	-3.89	-3.91	-4.09	-5.14	-6.42	-8.13	-7.48	-7.38	-7.15	-6.49	-4.95
2400	270	-5.88	-2.85	-1.24	-0.84	-0.55	-0.73	-1.87	-4.21	-5.58	-5.03	-5.98	-5.6	-5.88
2400	285	-2.38	-1.31	-0.37	-0.17	-0.38	-1.43	-2.44	-5.18	-7.38	-9.74	-11.23	-9.89	-2.38
2400	300	-4.09	-3.43	-2.29	-1.7	-2.19	-1.68	-2.44	-3.69	-6.32	-9.94	-12.49	-15.23	-4.09
2400	315	-7.15	-4.58	-2.84	-1.1	-0.87	-0.81	-1.19	-2.38	-4.15	-5.48	-7.09	-6.72	-7.15
2400	330	-1.49	-1.28	-1.31	-2.15	-2.71	-3.03	-3.18	-4.28	-5.88	-10.32	-15.84	-15.08	-1.49
2400	345	-3.5	-2.98	-3.18	-3.17	-3.94	-5.15	-7.28	-10.88	-11.82	-11.84	-12.04	-12.7	-3.5
2400	360	-8.33	-9.24	-8.22	-7.38	-9.88	-12.43	-16.85	-12.85	-10.45	-9.54	-7.29	-6.34	-8.33
2450	0	-3.93	-4.05	-4.99	-5.25	-4.87	-4.99	-5.89	-8.07	-5.75	-5.51	-5.25	-4.72	-3.93
2450	15	-7.75	-8.82	-7.28	-8.18	-11.07	-18.05	-18.78	-14.01	-10.55	-13.81	-18.95	-11.08	-7.75
2450	30	-19.81	-17.83	-15.48	-13.35	-14.83	-18.08	-13.48	-3.41	-6.45	-8.97	-6.35	-15.7	-19.81
2450	45	-14.5	-18.42	-21.71	-27.29	-19.84	-14.1	-12.2	-0.9	-7.12	-4.11	-6.33	-9.97	-14.5
2450	60	-10.34	-9.39	-8.01	-8.57	-8.93	-8.34	-8.82	-2.3	-7.32	-6.83	-7.14	-9.8	-10.34
2450	75	-5.25	-3.82	-3.34	-2.87	-2.81	-3.2	-3.18	-2.77	-2.94	-7.74	-2.98	-8.94	-5.25
2450	90	-5.95	-5.89	-4.28	-3.17	-2.88	-2.17	-1.79	-2.83	-1.81	-4.48	-1.23	-5.94	-5.95
2450	105	-5.82	-3.45	-1.97	-1.24	-0.57	-1.3	-2.1	-7.09	-4.89	-8.84	-5.41	-6.93	-5.82
2450	120	-2.94	-0.42	0.87	1.42	1.85	0.88	-0.18	-10.5	-3.88	-5.83	-5.49	-4.1	-2.94
2450	135	-3.07	-3.68	-2.04	-0.71	-0.09	-0.28	-0.37	-8.32	-2.07	-0.25	-8.01	-6.99	-3.07
2450	150	-0.49	-0.8	-2.1	-4.18	-7.19	-11.38	-16.2	-12.91	-11.85	-8.3	-19.2	-3.78	-0.49
2450	165	-8.48	-10.28	-8.81	-8.32	-8.99	-10.89	-11.73	-8.8	-12.57	-5.93	-5.93	-11.37	-8.48
2450	180	-11.3	-11.85	-10.83	-12.09	-11.28	-12.07	-11.01	-11.08	-10.85	-10.05	-9.89	-9.77	-11.3
2450	195	-14.79	-19.72	-23.88	-21.85	-16.03	-14.88	-11.47	-12.88	-8.91	-10.75	-7.74	-10.33	-14.79
2450	210	-13.5	-9.91	-9.2	-10.03	-9.9	-13.98	-24.87	-14.44	-8.82	-11.84	-6.78	-24.21	-13.5
2450	225	-11.89	-12.9	-11.02	-9.48	-7.35	-8.17	-10.39	-1.15	-2.18	-4.32	-5.95	-6.91	-11.89
2450	240	-1.3	-1.19	-2.13	-3.08	-3.11	-4.15	-6.71	-1.75	-9.08	-4.84	-3.93	-6.81	-1.3
2450	255	-3.55	-3.89	-3.41	-4.11	-3.47	-4.39	-5.81	-3.39	-7.31	-5.71	-7.5	-4.55	-3.55
2450	270	-5.22	-3.19	-1.58	-0.13	0.18	0.12	-0.7	-2.05	-4.23	-1.54	-5.31	-0.88	-5.22
2450	285	-2.08	-0.5	1.85	2.84	1.39	0.07	-1.19	-3.11	-5.18	-3.95	-10.48	-2.88	-2.08
2450	300	-4.33	-3.21	-1.79	-0.79	-0.83	-0.37	-1.18	-6.87	-4.37	-9.13	-8.48	-8.08	-4.33
2450	315	-5.45	-4.49	-3.13	-1.8	-0.82	-0.18	0.08	-9.43	-2.38	-6.15	-6.3	-5.9	-5.45
2450	330	-0.85	-0.22	-0.18	-0.83	-1.14	-1.78	-2.25	-8.95	-4.16	-5.4	-11.21	-4.5	-0.85
2450	345	-4.05	-3.55	-3.53	-3.77	-5.1	-6.85	-8.79	-13.27	-18.82	-13.15	-13.42	-7.04	-4.05
2450	360	-3.93	-4.05	-4.99	-5.25	-4.87	-4.99	-5.89	-8.07	-5.75	-5.51	-5.25	-4.72	-3.93
2500	0	-3.8	-3.89	-4.82	-4.98	-5.07	-4.89	-5.82	-8.87	-5.82	-5.18	-5.77	-5.1	-3.8
2500	15	-8.89	-2.51	-8.47	-3.91	-11.48	-7.08	-19.03	-13.54	-7.94	-20.93	-10.25	-10.25	-8.89
2500	30	-13.19	-1.17	-11.57	-2.03	-13.25	-3.35	-18.89	-4.57	-6.88	-8.88	-4.82	-11.18	-13.19
2500	45	-15.78	-3.81	-22.93	-2.37	-13.84	-1.41	-12.43	-0.53	-4.99	-3.45	-3.55	-9.18	-15.78
2500	60	-8.34	-4.19	-8.82	-2.2	-4.72	-1.48	-8.2	-2.88	-10.38	-4.77	-9.48	-6.48	-8.34
2500	75	-4.89	-1.35	-3.58	0.28	-2.88	-0.42	-3.92	-4.28	-3.77	-8.14	-4.38	-7.89	-4.89
2500	90	-5.71	-2.81	-2.88	-0.47	-1.22	-0.32	-1.48	-2.8	-1.89	-5.05	-1.4	-5.07	-5.71
2500	105	-3.93	-3.18	-0.83	-2.77	-0.94	-4.05	-2.48	-5.52	-8.44	-4.89	-6.85	-4.58	-3.93
2500	120	-2.01	-1.82	0.5	-2.89	1.48	-3.03	0.41	-8.84	-2.92	-4.11	-5.11	-3.04	-2.01
2500	135	-2.81	-7.38	-1.73	-7.58	0.47	-8.72	0.44	-7.83	-0.24	-0.17	-5.55	0.82	-2.81
2500	150	-8.414	-11.72	-2.02	-11.02	-5.84	-21.45	-10.35	-8.87	-7.81	-7.01	-9.87	-4.39	-8.414
2500	165	-7.38	-8	-7.18	-18.19	-8.79	-13.38	-9.88	-9.2	-12.37	-7.19	-10.07	-13.18	-7.38
2500	180	-10.37	-11.25	-9.99	-9.78	-10.25	-10.55	-11.17	-11.69	-10.75	-10.27	-9.89	-9.85	-10.37
2500	195	-28.43	-8.01	-24.94	-5.85	-13.34	-8.04	-10.91	-11.88	-8.99	-11.32	-8.95	-10.84	-28.43
2500	210	-15.41	-7.99	-12.19	-4.14	-12.85	-9.54	-17.33	-9.23	-8.19	-7.43	-8.1	-18.23	-15.41
2500	225	-7.87	-7.95	-8.13	-0.97	-5.27	0.12	-12.23	0.35	-2.42	-2.32	0.71	-6.58	-7.87
2500	240	-2	-7.93	-2.02	0.89	1.84	2.49	-4.47	-0.8	-7.28	-5.87	-2.27	-6.07	-2
2500	255	-4.43	-2.31	-3.12	-1.09	-2.89	-1.41	-4.74	-3.74	-4.77	-7.82	-4.89	-6.02	-4.43
2500	270	-3.85	-4.08	-1.23	-2.07	-0.01	-1.52	-0.57	-1.37	-4.19	-1.77	-5.85	-0.72	-3.85
2500	285	-1.72	-4.02	-0.37	-2.92	0.53	-3.59	-1.82	-3.55	-6.18	-4.5	-6.77	-4.1	-1.72
2500	300	-4.88	-7.97	-3.29	-5.35	-1.4	-5.83	-1.88	-8.17	-3.79	-10.88	-8.08	-7.02	-4.88
2500	315	-3.9	-28.75	-3.18	-14.28	-1.92	-13.3	-1.87	-8.25	-1.95	-3.81	-5.9	-4.27	-3.9
2500	330	-1.84	-12.32	-1.4	-11.68	-2.94	-17.05	-3.92	-10.1	-4.88	-4.22	-9.75	-5.21	-1.84
2500	345	-2.94	-6.34	-6.2	-5.25	-5.25	-19.11	-9.33	-12.98	-23.15	-9.73	-11.19	-12.94	-2.94
2500	360	-3.8	-3.89	-4.82	-4.98	-5.07	-4.89	-5.82	-8.87	-5.82	-5.18	-5.77	-5.1	-3.8

Ant. Position: 2.4G Ant.2_GAIN PHI

Frequency	Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
2400	0	-16.72	-14.82	-13.69	-13.02	-14.88	-16.02	-14.65	-13.88	-12.41	-11.68	-11.28	-10.99	-16.72
2400	15	-22.29	-8.81	-6.9	-2.22	-2.20	-0.20	-2.14	-1.08	-3.18	-4.88	-7.42	-13.48	-22.29
2400	30	-20.88	-9.91	-7.88	-3.20	-2.61	-3.4	-1.38	-4.18	-2.89	-6.11	-7.92	-11.37	-20.88
2400	45	-18.07	-8.84	-6.6	-3.5	-1.49	-2.05	-0.85	-2.66	-2.44	-6.28	-8.32	-12.76	-18.07
2400	60	-19.2	-16.46	-8.27	-4.76	-1.34	-0.96	0.42	-0.09	-1.45	-2.67	-6.27	-9.64	-19.2
2400	75	-23.46	-8.18	-7.38	-3.08	-2.34	-0.26	-0.06	-0.23	-0.99	-4.26	-4.82	-11.07	-23.46
2400	90	-13.68	-6.62	-7.66	-3.44	-4.29	-2.05	-3.12	-3.34	-3.35	-6.66	-6.69	-9.66	-13.68
2400	105	-16.17	-13.63	-11.61	-4.6	-6.98	-2.26	-3.68	-1	-3.98	-1.98	-7.17	-8.2	-16.17
2400	120	-12.49	-12.77	-13.7	-8.79	-13.46	-3.26	-6.64	-1.96	-3.89	-4.63	-6.77	-11.13	-12.49
2400	135	-12.64	-11.26	-13.64	-16.3	-19.44	-13.67	-13.62	-10.69	-7.22	-9.76	-7.96	-12.86	-12.64
2400	150	-16.61	-13.16	-16.42	-6.89	-6.69	-3.69	-1.97	-3.36	-0.96	-4.12	-3.67	-6.62	-16.61
2400	165	-17.61	-26.89	-17.88	-19.72	-16.1	-12.8	-21.06	-7.01	-24.66	-6.78	-14.61	-9.96	-17.61
2400	180	-17.61	-16.26	-14.41	-13.62	-14.41	-14.69	-16.26	-16.27	-14.32	-16.62	-16.64	-16.26	-17.61
2400	195	-16.06	-16.7	-27.64	-18.42	-16.64	-18.06	-11.38	-33.48	-6.66	-20.69	-7.46	-16.06	-16.06
2400	210	-8.99	-36.49	-11.12	-9.67	-4.62	-3.66	-2.94	-0.94	-4.38	-1.72	-4.39	-7.1	-8.99
2400	225	-8.74	-12.6	-14.8	-16.65	-14.24	-21.08	-12.15	-8.72	-6.6	-6.66	-10.37	-9.67	-8.74
2400	240	-11.84	-13.22	-10.67	-13.77	-6.37	-9.71	-2.12	-4.61	-2.92	-4.82	-6.66	-9.18	-11.84
2400	255	-13.1	-16.96	-7.76	-9.07	-2.88	-4.92	-1.65	-3.61	-0.86	-6.72	-4.67	-8.9	-13.1
2400	270	-9.06	-13.14	-4.47	-6.14	-1.96	-3.69	-2.49	-3.3	-4.95	-4.6	-7.68	-8.06	-9.06
2400	285	-11.15	-13.26	-6.22	-4.81	-1	-0.92	0.29	-0.31	-2.29	-2.49	-7.2	-7.72	-11.15
2400	300	-16.49	-16.9	-8.42	-4.2	-2.23	-0.22	-0.17	-0.8	-1.04	-3.09	-6.08	-9.73	-16.49
2400	315	-12.2	-10.14	-6.14	-2.85	-2.05	-0.96	-2.39	-1.8	-3.66	-6.44	-6.47	-11.7	-12.2
2400	330	-16.64	-16.67	-6.14	-4.21	-2.66	-1.86	-3.32	-2.38	-6.26	-4.82	-8.15	-14.72	-16.64
2400	345	-16.43	-11.77	-4.31	-3.8	-1.09	-2.22	-0.99	-2.87	-3.01	-4.66	-8.9	-13.4	-16.43
2400	360	-16.72	-14.82	-13.69	-13.02	-14.88	-16.02	-14.65	-13.88	-12.41	-11.68	-11.28	-10.99	-16.72
2480	0	-16.46	-14.41	-16.02	-16.74	-14.36	-13.76	-14.86	-13.96	-16.27	-14.74	-14.14	-16.27	-16.46
2480	15	-16.66	-11.17	-6.14	-2.15	-1.74	0.6	-1.66	0.49	-2.69	-2.66	-6.66	-13.67	-16.66
2480	30	-22.32	-10.66	-7.01	-2.38	-2.02	-1.16	-0.87	-2.61	-1.66	-4.42	-6.33	-9.96	-22.32
2480	45	-27.65	-7.69	-6.31	-1.72	-1.17	-1.16	0.01	-2.16	-1.42	-6.09	-7.06	-10.62	-27.65
2480	60	-16.06	-12.94	-10.64	-5.9	-1.8	-0.32	0.07	0.38	-1.62	-1.09	-6.63	-7.79	-16.06
2480	75	-22.47	-9.32	-8.44	-3.7	-2.61	-0.48	-0.18	-0.32	-0.7	-3.76	-4.78	-9.44	-22.47
2480	90	-16.38	-7.62	-8.46	-3.64	-3.61	-1.38	-2.11	-2.1	-2.74	-4.4	-4.61	-6.67	-16.38
2480	105	-16.08	-10.61	-12.66	-3.67	-6.49	-1.94	-2.42	-0.22	-3.04	-1.3	-6.78	-6.71	-16.08
2480	120	-11.24	-10.07	-12.33	-6.16	-10.67	-2.18	-6.63	-0.9	-3.6	-2.61	-6.36	-7.99	-11.24
2480	135	-11.96	-9.18	-14.16	-10.81	-17.89	-10.19	-11.96	-7.97	-7.04	-7.49	-6.92	-13.21	-11.96
2480	150	-13.76	-14.61	-16.6	-7.88	-6.66	-3.06	-1.42	-2.66	-0.72	-3.66	-3.62	-6.01	-13.76
2480	165	-14.33	-18.18	-16.27	-20.64	-16.66	-13.68	-32.43	-7.86	-30.14	-7.82	-18.63	-12.63	-14.33
2480	180	-16.71	-14.86	-16.41	-16.02	-16.06	-16.08	-14.02	-16.26	-13.02	-10.99	-14.26	-16.62	-16.71
2480	195	-14.92	-16.62	-21.41	-18.29	-16.9	-21.07	-10.4	-26.66	-6.87	-20.24	-9.46	-19.61	-14.92
2480	210	-7.62	-20.49	-12.64	-9.88	-4.72	-3.12	-2.65	-0.88	-3.26	-1.37	-3.46	-6.73	-7.62
2480	225	-8.02	-13.26	-11.6	-17.17	-10.38	-16.64	-8.67	-7.69	-6.96	-6.6	-9.78	-7.6	-8.02
2480	240	-10.61	-12.22	-8.11	-11.88	-3.48	-7.71	-0.78	-4.08	-1.41	-3.67	-4.66	-7.74	-10.61
2480	255	-10.27	-16.8	-7.08	-8.36	-2.73	-3.49	-0.67	-2.48	-0.46	-6.34	-3.69	-6.8	-10.27
2480	270	-9.26	-12.38	-6.06	-6.73	-1.95	-3.12	-1.36	-2.29	-3.3	-3.69	-6.66	-6.78	-9.26
2480	285	-11.31	-16.31	-6.67	-6.18	-1.48	-1.06	0.19	-0.34	-1.96	-2.6	-6.29	-8.71	-11.31
2480	300	-13.63	-20.14	-6.86	-6.06	-1.38	-0.36	0.42	-0.76	-0.05	-3.16	-3.92	-6.61	-13.63
2480	315	-13.71	-12.66	-3.74	-2.73	-1.07	-0.38	-1.46	-0.49	-3.33	-3.84	-7.08	-10.63	-13.71
2480	330	-16.32	-16.4	-4.38	-3.59	-1.31	-1.21	-1.66	-0.98	-3.6	-3.27	-6.34	-10.69	-16.32
2480	345	-17.48	-9.1	-4.94	-2.9	-0.4	-1.37	0.63	-1.67	-1.16	-4.26	-6.84	-10.49	-17.48
2480	360	-16.46	-14.41	-16.02	-16.74	-14.36	-13.76	-14.86	-13.96	-16.27	-14.74	-14.14	-16.27	-16.46
2600	0	-16.24	-16.26	-14.14	-13.02	-14.62	-16.62	-16.29	-14.77	-13.89	-14.95	-14.87	-13.26	-16.24
2600	15	-17.66	-10.21	-6.21	-2.6	-1.77	-0.11	-1.38	-0.02	-3.16	-2.66	-7.67	-12.12	-17.66
2600	30	-26.69	-10.42	-6.7	-2.04	-1.65	0.41	-0.86	-0.65	-2.07	-3.96	-6.23	-10.63	-26.69
2600	45	-24.66	-8.36	-7.46	-1.66	-1.96	-0.3	-0.04	-1.62	-1.17	-4.27	-6.9	-10.08	-24.66
2600	60	-16.9	-11.99	-11.14	-3.01	-2.78	-0.06	-0.64	0.41	-2.36	-1.61	-6.02	-6.36	-16.9
2600	75	-22.79	-10.24	-9.22	-3.67	-2.47	-1.01	-0.34	-0.84	-1.77	-4.6	-6.69	-9.76	-22.79
2600	90	-20.63	-7.62	-11.64	-3.27	-4.7	-1.29	-2.64	-1.62	-2.66	-3.36	-6	-8.4	-20.63
2600	105	-11.76	-9.41	-16.96	-3.61	-6.71	-1.69	-2.38	-0.24	-2.26	-1.29	-6.72	-6.97	-11.76
2600	120	-10.64	-8.44	-16.87	-4.69	-10.22	-1.66	-4.98	-1.05	-3.06	-2.16	-6.63	-6.98	-10.64
2600	135	-12.91	-8.46	-16.93	-7.86	-16.91	-7.63	-9.32	-7.36	-6.76	-6.66	-7.66	-12.2	-12.91
2600	150	-13.9	-14.68	-11.72	-7.28	-4.26	-2.48	-1.45	-1.73	-0.73	-2.46	-2.96	-3.76	-13.9
2600	165	-13.84	-16.97	-24.91	-17.81	-22.9	-14.17	-30.36	-8.93	-22.77	-8.74	-18.98	-14.34	-13.84
2600	180	-16.26	-14.41	-13.02	-13.39	-14.86	-16.62	-16.26	-16.02	-16.28	-13.02	-11.96	-14.02	-16.26
2600	195	-13.33	-16.99	-19.1	-21.03	-18.63	-26.24	-12.12	-30.14	-8.36	-21.96	-11.72	-16.74	-13.33
2600	210	-6.87	-16.99	-13.48	-7.91	-4.27	-2.66	-1.68	-0.87	-1.68	-1.46	-2.74	-6.12	-6.87
2600	225	-8.13	-14.63	-7.74	-21.3	-6.74	-11.8	-7.16	-6.93	-6.87	-6.08	-9.18	-8.13	-8.13
2600	240	-10.27	-14.98	-6.09	-13.47	-3.15	-7.26	-0.94	-3.36	-1.68	-4.16	-4.28	-8.27	-10.27
2600	255	-9.46	-22.26	-6.4	-10.34	-2.32	-3.78	-0.96	-1.96	-0.48	-4.4	-3.48	-9.46	-9.46
2600	270	-9.4	-18.18	-4.62	-6.78	-1.69	-3.38	-1.34	-2.49	-2.44	-3.62	-4.91	-7.66	-9.4
2600	285	-12.63	-17.69	-6.62	-4.92	-1.61	-1.06	-0.38	-0.46	-2.38	-3.26	-6.68	-8.64	-12.63
2600	300	-13.98	-27.16	-6.06	-6.66	-1.08	-1.37	0.42	-1.37	-0.21	-4.49	-4.6	-9.84	-13.98
2600	315	-13.46	-16.38	-3.6	-4.33	-0.27	-0.74	-0.66	-0.37	-2.26	-3.16	-6.3	-11.67	-13.46
2600	330	-16.9	-11.76	-4.8	-2.98	-0.01	-1.09	0.01	-1.29	-2.1	-3.3	-6.32	-9.28	-16.9
2600	345	-16.64	-9.26	-6.31	-2.76	-0.78	-1.66	0.42	-2.22	-1.24	-6.63	-6.2	-10.69	-16.64
2600	360	-16.24	-16.26	-14.14	-13.02	-14.62	-16.62	-16.29	-14.77	-13.89	-14.95	-14.87	-13.26	-16.24

Ant. Position: 2.4G Ant.2_GAIN THETA

Frequency	Phi#Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
2400	0	-0.83	-0.55	-1.25	-1.01	-2.08	-2.55	-1.89	-1.75	-2.98	-2.04	-1.75	-0.88	-0.83
2400	15	-1.89	-0.17	-3.57	-2.69	-7.93	-11.4	-12.65	-11.05	-3.28	-5.6	-0.28	-4.12	-1.89
2400	30	-2.29	-4.53	-2.42	-9.49	-5.63	-20.02	-10.71	-15.92	-4.48	-8.12	-0.88	-4.29	-2.29
2400	45	-3.62	-5.14	-1.98	-8.42	-8.77	-17.18	-18.3	-17.8	-8.79	-10.72	-2.88	-5.88	-3.62
2400	60	-5.08	-7.37	-7.8	-12.52	-13.82	-20.72	-13.05	-18	-11.85	-7.83	-9.72	-4.98	-5.08
2400	75	-9.51	-13.18	-32.8	-14.31	-9.21	-17.28	-8.27	-14.97	-8.03	-11.14	-8.35	-12.18	-9.51
2400	90	-10.48	-12.32	-17.68	-18.18	-23.65	-20.25	-18.94	-18.37	-9.81	-12.41	-11.78	-15.19	-10.48
2400	105	-9.42	-12.47	-7.92	-12.92	-9.19	-18.84	-14.35	-18.7	-19.07	-16	-18.08	-20.74	-9.42
2400	120	-5.1	-17.09	-2.67	-14.13	-3.72	-15.68	-8.57	-12.24	-10.74	-8.73	-20.31	-4.3	-5.1
2400	135	-3.42	-13.12	-3.23	-14.05	-5.19	-19.01	-7.65	-8.63	-9.22	1.75	-13.71	1.02	-3.42
2400	150	-1.18	-4.47	-0.88	-4.92	-3.42	-10.88	-12.8	-11.22	-15.55	-2.87	-7.69	-2.18	-1.18
2400	165	-13.52	-15.25	-18.3	-24.49	-17.33	-15.8	-13.68	-9.49	-8.79	-11.19	-8.94	-18.47	-13.52
2400	180	-2.72	-3.55	-3.27	-3.19	-3.52	-3.17	-3.52	-4.25	-4.95	2.52	-3.04	-4.25	-2.72
2400	195	-14.04	-15.19	-18.84	-17.28	-32.31	-14.65	-11.89	-11.37	-8.92	-8.97	-17.07	-8.8	-14.04
2400	210	-5.84	-0.91	-4.34	-2.17	-7.38	-8.15	-18.29	-24.8	-4.97	-9.53	-5.98	-5.72	-5.84
2400	225	-12.77	-3.53	-14.67	-3.9	-17.52	-5.88	-14.1	-8.83	-3.89	-12.33	-4.89	-18.12	-12.77
2400	240	-20.68	-3.62	-15.57	-2.81	-15.83	-5	-15.68	-7.73	-10.07	-13.61	-4.25	-29.8	-20.68
2400	255	-18.34	-7.38	-11.75	-7.94	-15.98	-11.27	-24.58	-22.74	-18.89	-18.45	-24.85	-15.01	-18.34
2400	270	-10.63	-11.02	-13.38	-39.83	-20.38	-20.05	-18.85	-12.22	-12.8	-11.11	-15.44	-10.81	-10.63
2400	285	-14.35	-13.69	-13.79	-14.07	-17.24	-8.39	-17.24	-8.45	-12.14	-7.95	-12.39	-10.39	-14.35
2400	300	-8.87	-5.83	-9.45	-12.24	-18.77	-13.77	-20.22	-12.06	-10.8	-9.89	-8.17	-8.89	-8.87
2400	315	-4.85	-2.91	-8.58	-3.78	-11.23	-10.74	-38.47	-11.31	-13.47	-4.24	-7.49	-1.75	-4.85
2400	330	-3.21	-2.47	-8.34	-3.88	-13.14	-8.57	-27.02	-9.22	-11.89	-2.78	-5.35	-0.78	-3.21
2400	345	-0.05	-2.37	-0.98	-4.98	-5.75	-11.8	-20.44	-7.13	-7.98	-1.87	-5.55	-0.4	-0.05
2400	360	-0.83	-0.55	-1.25	-1.01	-2.08	-2.55	-1.89	-1.75	-2.98	-2.04	-1.75	-0.88	-0.83
2450	0	-0.84	-1.52	-2.25	-2.75	-2.95	-4.04	-4.33	-3.85	-3.05	-2.78	-2.17	-2.951	-0.84
2450	15	-1.7	0.57	-3.28	-1.88	-8.57	-12.09	-13.02	-8.88	-3.33	-1.88	2.82	-1.21	-1.7
2450	30	-2.97	-1.9	-2.98	-8.02	-8.83	-19.02	-9.85	-10.28	-3.49	-8.04	0.29	-3.8	-2.97
2450	45	-1.7	-4.77	-1.22	-7.91	-4.71	-14.77	-13.8	-17.23	-8.39	-9.19	-0.88	-4.75	-1.7
2450	60	-5.18	-8.84	-8.84	-11.33	-18.28	-18.75	-12.84	-13.95	-8.87	-7.43	-8.08	-4.29	-5.18
2450	75	-7.84	-18.98	-18.55	-17.62	-11.45	-17.87	-8.7	-13.05	-8	-7.62	-8.85	-9.83	-7.84
2450	90	-10.95	-14.52	-18.42	-18.29	-17.19	-17.94	-14.55	-15.01	-9.8	-12.71	-11.4	-17.39	-10.95
2450	105	-11.25	-18.24	-8.87	-10.84	-10.8	-15.89	-14.78	-20.58	-21.88	-13.88	-18.35	-39.35	-11.25
2450	120	-5.98	-19.02	-2.59	-12.52	-4.09	-18.88	-7.8	-12.1	-12.99	-8.88	-22.77	-5.28	-5.98
2450	135	-4.31	-9.14	-2.82	-10.82	-3.78	-13.15	-8.89	-7.87	-8.85	-1.17	-11.55	-10.28	-4.31
2450	150	-0.33	-2.62	-0.1	-3.2	-3.14	-10.03	-12.81	-9.83	-11.27	-1.33	-8.22	-10.58	-0.33
2450	165	-14.08	-18.15	-19.69	-21.41	-21.23	-17.32	-13.88	-8.72	-9.41	-9.03	-7.78	-20.94	-14.08
2450	180	-1.73	-2.62	-2.14	-2.38	-3.14	-3.02	-2.74	-2.85	-2.01	-2.08	-1.74	-1.99	-1.73
2450	195	-18.35	-17.19	-18.04	-23.74	-32.49	-17.89	-12.3	-12.45	-7.92	-7.79	-14.95	-7.95	-18.35
2450	210	-2.77	0.27	-2.15	-1.85	-8.45	-8.79	-21.05	-19.28	-3.55	-7.93	-1.83	-5.3	-2.77
2450	225	-9.48	-3.44	-9.98	-3.08	-13.33	-4.9	-12.55	-8.87	-2.91	-10.35	-0.32	-17.38	-9.48
2450	240	-28.81	-3.33	-15.85	-2.82	-13.54	-5.83	-14.85	-10.08	-10.54	-17.21	-5.55	-24.15	-28.81
2450	255	-20.73	-8.92	-11.92	-9.22	-12.21	-11.23	-22.99	-18.75	-13.88	-19.88	-21.45	-13.05	-20.73
2450	270	-15.78	-11.74	-14.81	-24.69	-18.88	-14.47	-18.09	-11.88	-13.18	-10.03	-18.63	-8.97	-15.78
2450	285	-18.2	-11.44	-17.13	-19.8	-18.68	-9.68	-16.04	-7.85	-9.84	-7.45	-8.75	-8.72	-18.2
2450	300	-8.1	-5.03	-9.55	-10.94	-15.47	-18.27	-17.23	-11.27	-10.98	-8.81	-5.2	-5.43	-8.1
2450	315	-3.84	-1.28	-5.48	-2.38	-10.28	-8.72	-18.33	-10.92	-12.55	-2.45	-8.32	2.05	-3.84
2450	330	-0.83	-2.98	-3.31	-4.72	-9.48	-10.12	-18.9	-8.83	-8.8	-1.11	-4.85	0.48	-0.83
2450	345	0.58	-2.48	0.18	-5.15	-4.82	-13.01	-17.27	-8.42	-3.33	-1.42	-2.84	1.78	0.58
2450	360	-0.84	-1.52	-2.25	-2.75	-2.95	-4.04	-4.33	-3.85	-3.05	-2.78	-2.17	-2.951	-0.84
2500	0	-1.1	-1.62	-1.82	-1.88	-2.04	-2.85	-2.52	-3.07	-2.49	-2.44	-1.89	-2.02	-1.1
2500	15	-2.12	-0.4	-5.09	-2.49	-12.38	-12.17	-13.7	-8.47	-4.08	-0.9	0.13	-0.71	-2.12
2500	30	-3.48	-1.09	-4.82	-3.98	-10.08	-19.83	-12.31	-7.89	-3.78	-4.38	-0.1	-2.98	-3.48
2500	45	-1.8	-3.17	-1.75	-8.32	-4.87	-12.35	-13.7	-17.38	-7.29	-12.99	-1.15	-5.5	-1.8
2500	60	-5.14	-8.52	-5.87	-11.18	-12.49	-18.39	-18.97	-13.27	-10.94	-7.2	-5.27	-4.13	-5.14
2500	75	-8.19	-13.8	-14.92	-18.02	-18.87	-21.72	-10.5	-12.48	-8.81	-7.42	-8.98	-9.38	-8.19
2500	90	-14.84	-15.25	-29.28	-21.3	-14.32	-15.48	-15.41	-14.82	-10.08	-15.28	-9.67	-17.07	-14.84
2500	105	-12.63	-14.9	-15.17	-18.85	-18.98	-26.08	-17.92	-23.35	-21.8	-14.15	-19.33	-28.18	-12.63
2500	120	-8.63	-22.29	-5.08	-12.81	-8.73	-18.65	-10.22	-11.81	-17.11	-8.07	-28.84	-7.89	-8.63
2500	135	-4.81	-8.03	-3.18	-9.9	-4.05	-13.88	-7.72	-7.88	-8.72	-2.21	-9.5	-5.08	-4.81
2500	150	-7.2	-8.58	-5.05	2.84	-2.98	-8.88	-10.38	-9.18	-10.09	-2.49	-5.1	-3.1	-7.2
2500	165	-15.29	-17.05	-15.55	-18.92	-17.52	-16.43	-15.34	-8.87	-9	-9.18	-9.12	-15.29	-15.29
2500	180	-1.85	-2.04	-2.83	-2.81	-2.74	-1.98	-3.85	-3.75	-3.25	-4.07	-3.44	-2.95	-1.85
2500	195	-22.14	-15.58	-16.24	-19.15	-21.89	-14.48	-12.05	-13.02	-7.37	-9.81	-12.93	-8.93	-22.14
2500	210	-2.18	0.85	-1.95	-1.39	-4.51	-5.9	-12.8	-14.29	-3.78	-7.84	-2.82	-4.42	-2.18
2500	225	-9.67	-4.14	-8.29	-3.33	-11.38	-5.02	-12.15	-9.11	-3.8	-8.85	-1.68	-12.34	-9.67
2500	240	-18.88	-4.97	-18.58	-5.51	-14.54	-8.39	-14.53	-14.37	-9.41	-24.44	-8.7	-20	-18.88
2500	255	-18.89	-13.98	-14.84	-18.81	-19.82	-18.38	-31.84	-22.01	-19.98	-22.44	-19.24	-18.89	-18.89
2500	270	-15.89	-18.3	-20.99	-19.74	-22.33	-15.92	-14.91	-11.45	-13.87	-9.89	-17.91	-9.3	-15.89
2500	285	-12.85	-10.4	-14.29	-25.55	-18.03	-13.27	-20.25	-9.38	-8.58	-7.47	-8.82	-7.4	-12.85
2500	300	-5.81	-4.75	-7.57	-9.38	-14.01	-24.33	-18.38	-13.14	-10.88	-8.88	-5.5	-4.89	-5.81
2500	315	-3.03	-1.39	-4.33	-2.95	-8.15	-8.67	-16.41	-12.81	-12.79	-3.64	-7.28	-0.14	-3.03
2500	330	-0.58	-4.17	-1.94	-8.99	-7.8	-12.68	-14.94	-7.71	-8.31	-1.37	-3.78	0.6	-0.58
2500	345	0.07	-3.31	-0.81	-7.98	-5.12	-20.42	-17.9	-8.04	-2.88	-1.35	1.29	-5.85	0.07
2500	360	-1.1	-1.52	-1.82	-1.88	-2.04	-2.85	-2.52	-3.07	-2.49	-2.44	-1.89	-2.02	-1.1

Ant. Position: 2.4G Ant.3_GAIN PHI

Frequency	Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
2400	0	-15.1	-13.96	-12.02	-14.22	-15.06	-13.74	-15.24	-13.96	-14.88	-14.25	-14.98	-14.77	-15.1
2400	15	-8.78	-8.19	-4.6	-0.11	-4.23	0.78	-3.29	-2.08	-4.16	-5.64	-10.72	-14.24	-8.78
2400	30	-7.28	-7.08	-2.07	-4.78	-1.66	-2.91	-2.16	-2.23	-3.99	-4.75	-9.37	-13.45	-7.28
2400	45	-27.49	-6.38	-8.72	-1.28	-3.23	0.78	-2.45	-2.89	-3.82	-15.21	-8.98	-12.2	-27.49
2400	60	-12.22	-7.65	-3.68	-2.68	-0.61	-0.78	-2.99	-1.6	-4.77	-5.6	-8.34	-11.05	-12.22
2400	75	-12.02	-4.97	-2.36	0.02	0.3	0.84	-2.13	-1.88	-4.55	-5.41	-8.91	-19.08	-12.02
2400	90	-7.83	-5.43	-4.21	-1.93	-1.38	-3.22	-1.18	-7.87	-1.86	-7.89	-7.12	-16.87	-7.83
2400	105	-11.96	-11.15	-8.87	-2.86	-1.35	-3.18	2.39	-4.19	-0.53	-12.51	-6.84	-22.08	-11.96
2400	120	-6.7	-22.79	-4.87	-9.7	-2.44	-8.14	-0.04	-9.23	2.25	-10	-8.9	-20.9	-6.7
2400	135	-8.98	-10.89	-2.98	-4.6	-3.45	-0.66	-2.47	-5.09	-4.2	-25.73	-10.41	-13.03	-8.98
2400	150	-16.14	-2.14	-16.19	-0.33	-15.82	-1.69	-25.5	-9.61	-19.66	-14.15	-11.4	-16.97	-16.14
2400	165	-6.1	-9.88	-1.95	-8	-0.41	-4	-2.1	-5.18	-5.45	-9.54	-11.52	-8.68	-6.1
2400	180	-10.05	-10.11	-10.17	-10.23	-10.29	-10.35	-10.41	-10.47	-10.53	-10.59	-10.65	-10.71	-10.05
2400	195	-11.47	-3.75	-9.7	-0.48	-8.68	-0.41	-4.63	-4.2	-8.62	-10.21	-9.94	-10.7	-11.47
2400	210	-4.59	-24.25	-1.13	-14.52	-0.9	-20.23	-4.78	-21.83	-9.85	-16.15	-24.88	-10.77	-4.59
2400	225	-9.17	-5.28	-8.22	-2.92	-1.87	-3.21	-2.32	-2.84	-11.18	-8.49	-12.04	-14.11	-9.17
2400	240	-30.35	-4.81	-14.51	-4.19	-7.88	-0.77	-8.85	-0.7	-9.63	-4.89	-17.73	-8.33	-30.35
2400	255	-24.91	-8.13	-6.09	-4.17	-2.79	0.06	-3.39	0.45	-8.49	-5.13	-25.84	-16.1	-24.91
2400	270	-8.61	-5.82	-2.87	-2.76	-1.78	-1.03	-5.36	-1.61	-7.39	-3.29	-9.92	-11.31	-8.61
2400	285	-9.75	-5.25	-2.31	-0.41	0.81	-0.64	-0.14	-3.29	-3.84	-5.15	-12.51	-11.79	-9.75
2400	300	-17.67	-8.04	-4.37	-1.49	-1.14	-1.33	-0.7	-4.69	-2.7	-6.3	-9.69	-12.23	-17.67
2400	315	-10.88	-16	-2.93	-5.02	0.44	-2.1	-0.66	-2.66	-7.24	-5.43	-16.14	-15.78	-10.88
2400	330	-12.4	-4.25	-6.19	-1.91	-3.85	-1.64	-2.31	-3	-3.15	-6.73	-7.66	-13.28	-12.4
2400	345	-15.8	-5.78	-2.47	-4.22	0.9	-3.35	-0.23	-3.43	-4.24	-6.86	-9.49	-16.88	-15.8
2400	360	-15.1	-13.96	-18.02	-14.22	-15.06	-13.74	-15.24	-13.96	-14.88	-14.25	-14.98	-14.77	-15.1
2480	0	-10.72	-10.78	-10.78	-10.81	-10.84	-10.87	-10.9	-10.93	-10.96	-10.99	-11.02	-11.05	-10.72
2480	15	-7.33	-8.75	-4.34	-1.37	-3.72	1.23	-4.59	-1.32	-4.93	-9.03	-9.47	-15.03	-7.33
2480	30	-7.14	-6.38	-2.69	-3.02	-1.7	-2.64	-2.74	-2.67	-4.42	-6.94	-8.62	-13.27	-7.14
2480	45	-17.03	-5.39	-4.98	-0.78	-3.42	0.62	-3.87	-3.65	-5.35	-12.35	-9.45	-16.13	-17.03
2480	60	-11.33	-6.53	-3.13	-1.08	0.35	0.63	-1.93	-1.28	-5.92	-7.29	-7.88	-10.77	-11.33
2480	75	-9.87	-5.75	-2.59	0.63	-0.3	1.47	-2.33	-1.82	-5.05	-7.22	-6.87	-15.59	-9.87
2480	90	-9.06	-7.13	-4.47	-2.08	-2.12	-3.19	-1.82	-8.73	-2.73	-8.52	-7.33	-18.3	-9.06
2480	105	-15.04	-11.95	-8.49	-3	-2.09	-1.94	1.01	-2.25	2.34	-10.45	-8.1	-13.08	-15.04
2480	120	-5.37	-17.7	-4.8	-9.42	-2.42	-10.35	-0.37	-11.28	-2.08	-9.9	-8.66	-19.09	-5.37
2480	135	-7.73	-12.61	-2.42	-4.08	-2.9	-0.41	-2.65	-3.81	-4.11	-21.45	-10.01	-11.97	-7.73
2480	150	-12.08	-3.39	-11.55	-2.05	-12.79	-3.03	-12.9	-8.62	-22.55	-10.45	-16.34	-17.82	-12.08
2480	165	-7.25	-15.3	-2.42	-3.45	0.03	-2.74	-1.71	-4.25	-4.47	-8.45	-8.37	-8.79	-7.25
2480	180	-10.8	-10.78	-10.75	-10.74	-10.72	-10.7	-10.68	-10.65	-10.64	-10.62	-10.6	-10.58	-10.8
2480	195	-15.37	-4.84	-14.88	-0.88	-4.42	0.01	-2.95	-2.47	-6.85	-6.65	-7.8	-7.75	-15.37
2480	210	-6.11	-12.47	-2.32	-11.43	-2.22	-12.35	-5.33	-25.98	-9.82	-20.97	-18.44	-14.12	-6.11
2480	225	-11.58	-4.34	-8.75	-2.67	-1.12	-3.41	-1.65	-3.38	-11.79	-8.9	-12.19	-9.65	-11.58
2480	240	-18.2	-4.64	-10.27	-3.78	-9.69	-1.13	-11.12	-0.94	-9.32	-3.77	-19.4	-7.6	-18.2
2480	255	-21.29	-9.3	-4.97	-4.6	-2.51	-0.32	-1.8	0.95	-4.47	-3.29	-16.3	-13.53	-21.29
2480	270	-11.85	-6.25	-3.29	-3.4	-2.05	-1.53	-5.09	-2.32	-8.42	-5.03	-9.68	-13.05	-11.85
2480	285	-10.11	-5.21	-2.01	-0.43	1.42	-0.39	0.07	-4.1	-5.15	-6.04	-13.55	-11.14	-10.11
2480	300	-15.71	-7.39	-3.43	-1.21	0.31	-0.42	0.07	-4.07	-3.83	-8.99	-12.69	-9.25	-15.71
2480	315	-10.05	-9.33	-2.58	-3.71	0.27	-3.53	-0.99	-4.25	-7.74	-5.93	-15.31	-12.44	-10.05
2480	330	-11.75	-4.14	-4.23	-2.15	-2.9	-2.53	-2.77	-3.9	-3.99	-3.95	-9.07	-14.07	-11.75
2480	345	-15.99	-5.61	-4.52	-3.67	0.55	-5.04	0.43	-5.29	-4.1	-7.05	-11.99	-14.25	-15.99
2480	360	-10.72	-10.78	-10.78	-10.81	-10.84	-10.87	-10.9	-10.93	-10.96	-10.99	-11.02	-11.05	-10.72
2500	0	-11.5	-11.47	-11.44	-11.41	-11.38	-11.35	-11.32	-11.29	-11.25	-11.23	-11.2	-11.17	-11.5
2500	15	-11.52	-10.52	-8.58	-4.45	-5.21	-0.8	-5.37	-1.4	-7.55	-6.31	-11.15	-10.79	-11.52
2500	30	-8.78	-6.82	-3.82	-2.28	-3.32	-2.17	-4.04	-3.87	-5.3	-6.94	-12.4	-12.91	-8.78
2500	45	-15.31	-5.43	-4.15	-1.48	-3.07	0.1	-5.17	-4.53	-9.4	-12.87	-11.35	-14.4	-15.31
2500	60	-9.53	-8.22	-3.85	-1.14	-0.75	1.2	-2.21	-1.65	-7.14	-9.05	-11.51	-14.32	-9.53
2500	75	-11.01	-5.04	-3.92	-0.83	-0.65	1.02	-1.88	-1.89	-6.29	-8.24	-6.51	-15.03	-11.01
2500	90	-7.18	-8.55	-3.85	-2.78	-2.89	-4.25	-2.7	-9.69	-4.11	-9.38	-9.71	-22.45	-7.18
2500	105	-12.47	-12.95	-4.48	-3.69	-2.82	-2.23	-0.25	-2.08	-0.84	-9	-8.54	-11.15	-12.47
2500	120	-5.78	-14.11	-4.24	-8.1	-2	-8.73	-0.68	-11.14	-1.97	-12.84	-4.52	-20.03	-5.78
2500	135	-7.72	-12.85	-2.29	-6.08	-3.45	0.01	-2.98	-4.15	-4.71	-16.81	-12.18	-10.4	-7.72
2500	150	-12.82	-4.95	-10.3	-2.55	-9.94	-3.85	-12.28	-8.42	-16.14	-9.15	-18.17	-18.14	-12.82
2500	165	-8.1	-15.34	-3	-9.91	-0.14	-2.03	-2.02	-4.12	-4.27	-8.55	-7.55	-8.43	-8.1
2500	180	-11.74	-11.75	-11.75	-11.77	-11.78	-11.79	-11.8	-11.78	-11.79	-11.8	-11.8	-11.78	-11.74
2500	195	-15.23	-5.23	-14.4	-0.97	-4.75	-0.12	-2.55	-2.88	-5.92	-5.84	-8.45	-7.19	-15.23
2500	210	-7.41	-11.05	-2.7	-10.4	-2.55	-10.35	-5.08	-15.29	-7.35	-29.1	-14.41	-14.12	-7.41
2500	225	-12.82	-4.74	-11.03	-2.52	-1.13	-3.55	-1.34	-3.42	-11.14	-7.71	-10.5	-12.71	-12.82
2500	240	-15.55	-4.8	-9.75	-3.29	-8.02	-0.78	-9.25	-1	-10.11	-3.51	-25.89	-7.1	-15.55
2500	255	-49.75	-5.35	-6.88	-4.05	-3.12	-1.55	-1.95	2.34	-3.92	-3.45	-13.05	-14.29	-49.75
2500	270	-11.81	-4.87	-4.99	-3.8	-2.77	-2.5	-5	1.52	-9.33	-6.92	-14.85	-14.05	-11.81
2500	285	-9.53	-6.93	-4.05	-2.25	0.94	-0.55	-0.25	-3.8	-5.07	-5.44	-11.43	-11.9	-9.53
2500	300	-17.84	-5.92	-4.21	-1.51	0.74	-0.87	0.18	-4.54	-4.58	-8.43	-15.44	-11.73	-17.84
2500	315	-11.49	-5.7	-3.34	-3.31	0.01	-4.21	-1.79	-5.44	-8.7	-9.95	-15.15	-21	-11.49
2500	330	-9.81	-5.55	-3.87	-2.92	-2.99	-2.98	-2.6	-4.25	-4.59	-9.24	-9.94	-21.3	-9.81
2500	345	-15	-8.43	-8.23	-5.19	-1.85	-8.88	-0.92	-7.19	-3.82	-9.59	-11.05	-15.25	-15
2500	360	-11.5	-11.47	-11.44	-11.41	-11.38	-11.35	-11.32	-11.29	-11.25	-11.23	-11.2	-11.17	-11.5

Ant. Position: 2.4G Ant_3_GAIN THETA

Frequency	Phi#Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
2400	0	-5.55	-5.59	-5.53	-5.75	-5.98	-6.98	-5.21	-4.98	-5.55	-5.31	-5.93	-5.51	-5.55
2400	15	-7.16	-1.89	-10.2	-8.04	-11.25	-19.91	-11.98	-10.07	-3.38	-9.42	-1.07	-9.08	-7.16
2400	30	-10.84	-0.05	-13.99	-3.75	-3.79	-3.38	-5.42	-21.48	-2.02	-12.41	-5.95	-10.11	-10.84
2400	45	-12.87	-0.6	-15.83	-3.23	-8.25	-9.62	-1.88	-19.88	-0.08	-15.47	1.05	-11.81	-12.87
2400	60	-10.34	-0.57	-11.57	-3.77	-8.39	-10.88	-2.59	-14.35	-0.05	-15.34	0.21	-18.03	-10.34
2400	75	-7.78	-2.1	-11.84	-4.89	-9.21	-8.73	-5.97	-13.08	-5.12	-10.15	-3.28	-7.94	-7.78
2400	90	-5.85	-4.51	-8.04	-4.89	-8.45	-5.23	-4.6	-5.23	-2.83	-4.17	-1.93	-4.83	-5.85
2400	105	-1.91	-3.45	-5.25	-8.37	-4.2	-7.13	-3.29	-8.28	-2.12	-3.41	-1.05	-3.95	-1.91
2400	120	-2.29	-8.98	-15.25	-23.23	-13.4	-8.44	-10.52	-8.48	-9.08	-3.39	-9.42	-8.84	-2.29
2400	135	-3.18	-18.59	-8.35	-10.79	-7.12	-3.83	-10.29	-0.38	-3.89	-5.73	-4.5	-5.85	-3.18
2400	150	-8.98	-18.55	-7.51	-10.54	-13.91	-4.6	-25.61	-5.8	-11.85	-2.52	-8.62	-0.55	-8.98
2400	165	-5.35	-12.57	-8.51	-11.13	-9.58	-4.95	-10.85	-2.14	-7.01	-8.05	-5.88	-11.07	-5.35
2400	180	-8.82	-8.73	-8.84	-8.55	-3.48	-3.37	-5.55	-7.98	-8.69	-12.52	-8.44	-8.92	-8.82
2400	195	-15.16	-6.5	-12.21	-9.45	-7.91	-10.72	-2.53	-10.04	-2.82	-12.02	-9.54	-8.23	-15.16
2400	210	-13.51	-5.32	-14	-10.37	-8.54	-13.37	-4.85	-18.29	-5.45	-8.55	-5.02	-5.88	-13.51
2400	225	-13.55	-2	-14.94	-4.33	-8.83	-11.87	-1.89	-5.57	0.71	-2.43	-3.89	-5.87	-13.55
2400	240	-7.07	-3.13	-10.89	-8.13	-18.04	-15.84	-8.58	-10.31	-7.09	-10.7	-12.02	-8.43	-7.07
2400	255	-7.7	-1.89	-7.09	-3.54	-8.74	-3.85	-8.34	-2.68	-5.98	-1.21	-3.21	-2.01	-7.7
2400	270	-3.84	-4.89	-5.13	-8.51	-5.27	-5.95	-5.48	-3.89	-5.24	-2.28	-3.88	-1.85	-3.84
2400	285	-12.02	-8.35	-3.13	-12.34	-8.88	-6.07	-10.89	-5.75	-13.17	-4.81	-8.89	-2.43	-12.02
2400	300	-12.2	-10.88	-2.11	-10.05	-8.58	-4.41	-13.17	-1.47	-13.22	0.31	-17.21	0.23	-12.2
2400	315	-0.02	-15.51	-1.78	-10.93	-8.48	-4.02	-15.13	-1.12	-23.78	0.53	-12.25	1.45	-0.02
2400	330	-12.25	-12.47	-1.77	-11.02	-8.52	-7.07	-12.1	-3.91	-21.93	-0.44	-10.92	0.05	-12.25
2400	345	-11.02	-7.91	-8.52	-18.49	-10.85	-15.78	-14.87	-7.07	-9.85	-2.05	-10.18	-1.18	-11.02
2400	360	-13.25	-5.89	-5.83	-5.75	-5.98	-8.98	-5.21	-4.98	-5.55	-5.31	-5.93	-5.51	-13.25
2450	0	-4.47	-5.07	-4.99	-8.25	-8.95	-7.53	-7.41	-7.99	-8.02	-4.25	-7.98	-5.71	-4.47
2450	15	-5.99	-3.25	-9.1	-8.77	-18.14	-29.33	-12.18	-9.37	-5.12	-7.58	-9.95	-7.54	-5.99
2450	30	-9.91	0.52	-11.22	-2.42	-7.98	-6.55	-5.53	-12.67	-2.09	-13.14	-5.98	-11.53	-9.91
2450	45	-11.2	-0.89	-14.09	-2.94	-5.75	-3.05	-2.3	-19.73	-0.14	-12.47	-5.38	-11.27	-11.2
2450	60	-8.94	0.42	-8.95	-1.98	-4.78	-8.9	-1.9	-11.58	0.09	-13.02	0.53	-12.28	-8.94
2450	75	-6.8	-1.11	-10.83	-3.78	-3.18	-8.78	-5.85	-9.87	-3.45	-7.91	-2.83	-5.74	-6.8
2450	90	-3.27	-4.53	-3.53	-4.23	-4.04	-4.84	-3.69	-4.51	-2.1	-3.57	-0.3	-3.07	-3.27
2450	105	-0.23	-8.75	-1.04	-4.55	-3.23	-5.18	-2.98	-4.82	-2.23	-2.73	-1.04	-2	-0.23
2450	120	-1.38	-8.33	-7.98	-14.51	-9.79	-8.04	-12.14	-4.88	-11.18	-8.07	-11.83	-7.01	-1.38
2450	135	-2.38	-17.78	-5.91	-10.47	-8.28	-3.34	-15.8	0.05	-5.27	-10.52	-4.52	-1.28	-2.38
2450	150	-18.53	-12.71	-6.7	-7.99	-12.19	-4.03	-12.03	-4.35	-9.92	-1.54	-7.75	0.92	-18.53
2450	165	-2.79	-11.91	-5.29	-10.75	-9.34	-8.17	-10.41	-2.2	-7.83	-8.9	-8.27	-3.05	-2.79
2450	180	-8.87	-8.75	-8.83	-8.91	-3.99	-9.07	-5.57	-7.25	-9.63	-7	-7.52	-8.85	-8.87
2450	195	-15.57	-4.2	-10.38	-8.15	-10.27	-10.27	-3.6	-5.48	-3.45	-6.81	-15.25	-5.94	-15.57
2450	210	-12.02	-9.52	-11.08	-9.89	-5.81	-13.4	-3.52	-9.91	-3.57	-9.85	-5.88	-7.45	-12.02
2450	225	-13.03	-7.25	-14.93	-3.58	-7.12	-10.98	-1.25	-9.89	0.88	-4.23	-5.25	-7.53	-13.03
2450	240	-5.58	-2.77	-9.05	-7.04	-12.95	-12.94	-5.09	-11.77	-5.03	-11.27	-8.87	-10.84	-5.58
2450	255	-5.42	-3.55	-5.3	-2.52	-5.55	-2.95	-5.58	-2.53	-4.81	-1.45	-2.53	-1.75	-5.42
2450	270	-3.35	-2.98	-5.2	-4.09	-4.23	-3.98	-4.92	-3.02	-4.7	-0.74	-3.08	-0.74	-3.35
2450	285	-0.43	-7.15	-8.25	-9.52	-8.98	-7.99	-8.88	-4.57	-10.2	-2.79	-8.73	-1.14	-0.43
2450	300	0.57	-9.02	-5.25	-7.88	-4.35	-3.21	-9.21	-0.95	-11.5	0.78	-14.85	-4.25	0.57
2450	315	-0.05	-14.58	-1.15	-8.52	-4.79	-3.85	-14.17	-1.04	-18.09	1.52	-12.07	-8.95	-0.05
2450	330	-12.95	-10.05	-0.79	-10.05	-4.85	-7.39	-10.73	-4.12	-15.78	-0.67	-11.23	-12.85	-12.95
2450	345	-7.32	-6.9	-8.55	-13.08	-11.87	-15.18	-14.53	-9.89	-7.27	-2.88	-7.5	-5.95	-7.32
2450	360	-4.47	-5.07	-4.99	-8.25	-8.95	-7.53	-7.41	-7.99	-8.02	-4.25	-7.98	-5.71	-4.47
2500	0	-4.09	-8.25	-7.28	-7.14	-7.02	-8.22	-5.07	-4.98	-8.33	-7.14	-7.09	-5.29	-4.09
2500	15	-4.55	-9.57	-8.98	-8.99	-13.22	-18.95	-13.8	-11.53	-8.91	-3	-2.53	-8.53	-4.55
2500	30	-8.43	-7.95	-9.98	-3.81	-9.73	-8.87	-7.45	-10.45	-3.91	-12.88	-3.07	-10.8	-8.43
2500	45	-14.18	-3.88	-13.81	-3.37	-5.89	-7.37	-3.85	-14.98	-1.21	-11.91	-8.98	-12.23	-14.18
2500	60	-7.77	-8.55	-9.32	-2.43	-4.77	-7.09	-2.17	-11.45	-0.53	-12.4	1.35	-12.89	-7.77
2500	75	-8.95	-0.3	-10.77	-5.04	-3.83	-3.84	-7.92	-8.88	-4.25	-8.88	-2.53	-8.37	-8.95
2500	90	-3.18	-3.94	-3.45	-4.83	-3.89	-4.98	-4.07	-4.62	-2.95	-2.43	-0.73	-2.7	-3.18
2500	105	-0.75	-4.73	-1.24	-4.47	-2.4	-5.2	-2.85	-3.08	-2.42	-0.88	-1.57	-2.21	-0.75
2500	120	-1.45	-5.93	-4.54	-11.41	-8.84	-7.17	-9.55	-4.43	-12.04	-6.05	-14.38	-8.08	-1.45
2500	135	-2.08	-30.49	-2.53	-12.91	-8.48	-3.33	-16.03	0.48	-7.43	-7.02	-4.41	-8.75	-2.08
2500	150	-2.52	-11.97	-8.67	-7.44	-10.54	-4.01	-10.18	-3.81	-9.03	-0.8	-5.42	-4.25	-2.52
2500	165	-2.03	-14.45	-3.59	-13.1	-9.73	-7.53	-9.58	-3.91	-5.16	-8.97	-8.91	-8.92	-2.03
2500	180	-5.43	-8.44	-8.24	-9.25	-8.79	-8.79	-8.22	-9.02	-9.14	-7.98	-5.98	-3.27	-5.43
2500	195	-17.53	-2.99	-14.88	-8.75	-11.48	-10.74	-4.35	-8.97	-4.99	-7.07	-11.4	-7.15	-17.53
2500	210	-11.84	-8.98	-10.07	-6.8	-5.04	-12.1	-3.08	-8.88	-7.35	-9.01	-5.25	-8.54	-11.84
2500	225	-22.8	-5.55	-21.82	-3.93	-7.08	-10.88	-1.21	-13.93	-8.55	-4.39	-8.95	-8.83	-22.8
2500	240	-8.41	-2.77	-8.52	-8.55	-12.08	-7.02	-5.1	-9.83	-3.7	-14.81	-14.52	-11.94	-8.41
2500	255	-3.84	-0.39	-5.35	-8.99	-5.22	-8.28	-3.88	-2.88	-2.09	-1.8	-5.25	-2.53	-3.84
2500	270	-2.34	-2.2	-5.33	-4.03	-4.85	-3.49	-5.33	-3.94	-3.85	-1.79	-2.32	-0.53	-2.34
2500	285	0.23	-8.27	-1.9	-9.89	-7.81	-8.57	-6.04	-8.03	-3.49	-3.51	-5.31	-1.08	0.23
2500	300	-8.35	-8.28	-0.75	-7.17	-4.88	-3.15	-9.23	-1.3	-12.1	0.4	-13.37	0.58	-8.35
2500	315	-5.25	-15.23	-2.23	-9.05	-8.11	-4.5	-11.47	-2.69	-15.05	-0.25	-12.03	-2.88	-5.25
2500	330	-8.57	-9.37	-1.57	-12.95	-8.72	-8.63	-10.95	-8.42	-12.82	-1.99	-11.8	-5.89	-8.57
2500	345	-5.88	-5.39	-4.55	-9.91	-10.83	-17.18	-18.38	-13.34	-8.57	-5.38	-7.85	-8.83	-5.88
2500	360	-4.09	-8.25	-7.28	-7.14	-7.02	-8.22	-5.07	-4.98	-8.33	-7.14	-7.09	-5.29	-4.09

Ant. Position: 5G Ant.4_GAIN PHI

Frequency	Phi#Theta	0	16	30	45	60	75	90	105	120	135	150	165	180
5150	0	-14.61	-14.68	-14.76	-14.82	-14.89	-14.98	-15.03	-15.1	-15.17	-15.24	-15.31	-15.38	-14.81
5150	16	-16.73	-1.4	-8.29	-4.79	-7.28	-5.67	-3.76	-8.48	-7.66	-3.19	-10.61	-8.72	-18.73
5150	30	-8.3	-12.58	-10.83	-8.31	-1.78	-5.99	-7.25	-8.67	-8.32	-9.49	-10.95	-11.15	-8.3
5150	45	-10.04	-7.63	-6.91	-5.28	-12.25	-11.19	-1.84	-18.13	-8.6	-11.31	-12.14	-38.32	-10.04
5150	60	-9.44	-10.78	-13.32	-8.69	-3.61	0.79	-8.63	-10.88	-2.75	-5.4	-13.25	-18.07	-9.44
5150	75	-23.5	-12.03	-8.28	-7.18	-4.38	-7.53	-5.03	-8.68	-16.34	-16.92	-12.33	-27.33	-23.5
5150	90	-18.8	-7.6	-3.23	-4.14	-8.93	-12.67	-11.24	-3.63	-4.92	-7.16	-12.38	-16.68	-18.8
5150	105	-12.95	-8.67	-11.02	-12.64	-3.49	-5.79	-3.83	-8.63	-9.23	-8.64	-16.91	-17.07	-12.95
5150	120	-11.98	-22.83	-5.65	-8.68	-5.98	-8.21	-14.05	-7.3	-23.89	-13.26	-24.14	-8.23	-11.98
5150	135	-17.68	-22.28	-22.81	-8.73	-3.63	-7.97	-18.88	-14.39	-9.28	-16.88	-10.95	-8.27	-17.68
5150	150	-7.04	-2.94	-5.08	-4.27	-8.34	-10.62	-13.91	-7.68	-5.62	-18.71	-7.18	-10.86	-7.04
5150	165	-9.43	-16.8	-5.45	-12.84	-1.68	1.62	-3.87	-8.68	-2.67	-23.2	-5.95	-12.13	-9.43
5150	180	-16.85	-7.62	-18.88	-4.33	-8.25	-3.04	-1.78	-2.78	-32.05	-5.05	-18.35	-2.64	-16.85
5150	195	-11.72	-0.62	-5.15	-7.71	-7.1	-11.29	-7.15	-8.71	-11.83	-10.62	-28.09	-12.7	-11.72
5150	210	-9.28	-21.47	-5.37	-5.29	-11.99	-13.33	-7.7	-24.09	-7.87	-10.37	-16.39	-14.91	-9.28
5150	225	-12.98	-15.28	-13.42	-16.47	-4.8	-7.3	-7.4	-5.17	-3.82	-8.7	-12.64	-18.82	-12.98
5150	240	-12.75	-9.38	-13.45	-10.27	-10.39	-2.68	-4.92	-8.14	-4.89	-5.84	-24.2	-21.84	-12.75
5150	255	-24.72	-5.88	-4.23	-4.09	-4.38	-7.57	-14.03	-8.4	-8.9	-10.6	-8.63	-10.42	-24.72
5150	270	-14.24	-9.43	-15.07	-10.49	-7.49	-5.25	-10.6	-5.91	-4.6	-12.53	-8.61	-19.94	-14.24
5150	285	-10.83	-9.31	-7.49	-12.34	-13.89	-9.84	-8.93	-18.78	-10.42	-7.13	-8.62	-11.15	-10.83
5150	300	-6.29	-9.79	-4.67	-3.68	-9.72	-5.34	-3.65	-7.39	-5.91	-9.09	-16.1	-12.95	-6.29
5150	315	-9.61	-21.38	-5.84	-9.44	-3.44	-4.24	-4.34	-5.69	-8.14	-10.49	-8.65	-18.22	-9.61
5150	330	-13.6	-5.23	-9.3	-3.01	-5.43	-1.98	-7.22	-8.08	-9.41	-5.99	-19.14	-12.99	-13.6
5150	345	-16.29	-15.95	-15.81	-16.27	-14.93	-14.69	-14.25	-13.91	-13.67	-13.23	-12.89	-12.65	-16.29
5150	360	-14.61	-14.68	-14.75	-14.82	-14.89	-14.98	-15.03	-15.1	-15.17	-15.24	-15.31	-15.38	-14.61
5500	0	-8.95	-8.69	-8.23	-7.87	-7.51	-7.88	-8.25	-8.82	-8.99	-9.38	-9.73	-10.1	-8.95
5500	16	-9.19	-14.78	-1.41	-4.84	-1.53	-4.88	-2.49	-13.43	-5.25	-30.92	-4.82	-13.28	-9.19
5500	30	-21.92	-6.29	-5.25	-4.2	-7.39	-4.73	-8.37	-9.42	-4.98	-12.15	-3.98	-12.35	-21.92
5500	45	-16.24	-9.28	-9.25	-8	-12.95	-3.8	-9.78	-15.13	-3.81	-5.98	1.7	-12.44	-16.24
5500	60	-8.01	-8.34	-4.74	-11.83	-8.08	-3.22	-9.21	-4.47	-8.79	-9.77	1.78	-11.35	-8.01
5500	75	-7.61	-4.63	-0.7	-3.99	-19.13	-9.22	-5.3	-5.85	-3.71	-8.71	0.13	-4.09	-7.61
5500	90	-9.9	-8.62	-4.33	-3.19	-5.87	-8.08	-3.55	-3.99	-5.47	-7.34	-3.01	-9.07	-9.9
5500	105	-3.69	-10.75	-5.89	-9.94	-3.03	-5.67	-1.77	-8.03	-12.85	-3.79	-3.79	-22.73	-3.69
5500	120	-16.85	-9.39	-10.75	-11.24	-9.23	-7.62	-3.44	-11.67	-11.91	-17.68	-3.95	-5.77	-16.85
5500	135	-8.89	-17.65	-9.41	-10.33	-6.74	-8.05	-7.34	-11.22	-11.4	-11.46	-5.83	-18.48	-8.89
5500	150	-0.89	-5.79	-0.92	-1.15	-7.88	-2.18	-5.23	-2.35	-13.21	-3.88	-1.08	-7.23	-0.89
5500	165	-14.29	-8.32	0.44	-12.43	-4.7	-4.46	-1.87	-8.61	-2.98	-10.95	-3.63	-10.41	-14.29
5500	180	-17.03	-3.61	-10.61	0	-7.78	-0.28	-2.12	0.29	-10.97	-3.69	-8.64	-15.1	-17.03
5500	195	-13.12	-5.34	-8.72	-5.2	-5.92	-17.29	-0.39	-10.15	-5.63	-25.9	0.65	-12.22	-13.12
5500	210	-17.1	-11.04	-7.82	-4.32	-16.28	-11.69	-8.63	-2.95	-4.98	-4.73	-1.05	-16.92	-17.1
5500	225	-19.48	-8.7	-10.88	-3.2	-9.12	-3.44	-3.68	-4.28	-3.41	-11.24	1.34	-10.67	-19.48
5500	240	-11.6	-6.02	-4.92	-8.61	-9.38	-6.95	-20.25	-4.34	-4.64	-22.72	1.92	-11.88	-11.6
5500	255	-9.78	-7.72	-5.99	-8.68	-4.32	-3.68	-3.14	-7.88	-4.89	-8.63	0.85	-12.49	-9.78
5500	270	-17.6	-8.35	-4.81	-3.9	-7.14	-7.34	-5.67	-8.84	-5.73	-8.1	0.82	-7.9	-17.6
5500	285	-11.25	-7.13	-3.48	-5.85	-3.19	-2.98	-11.33	-2.87	-5.84	-8.47	-8.09	-8.43	-11.25
5500	300	-13.32	-12.61	-6.81	-3.88	-8.42	-8.83	-3.41	-4.74	-18.23	-3.81	-7.02	-14.78	-13.32
5500	315	-4.54	-3.84	-8.61	-8.15	-8.17	-3.47	-8.32	-5.18	-10.82	-5.97	-9.98	-13.18	-4.54
5500	330	-13.63	-11.79	-7.4	-4.37	-4.04	-6.04	-5.95	-4.6	-11.6	-13.69	-5.65	-24.03	-13.63
5500	345	-7.84	-7.65	-7.88	-7.67	-7.65	-7.69	-7.7	-7.71	-7.72	-7.73	-7.74	-7.75	-7.84
5500	360	-8.95	-8.69	-8.23	-7.87	-7.51	-7.88	-8.25	-8.82	-8.99	-9.38	-9.73	-10.1	-8.95
5500	0	-14.62	-14.61	-14.4	-14.29	-14.18	-14.07	-13.98	-13.85	-13.74	-13.63	-13.52	-13.41	-14.62
5500	16	-13.47	-7	-2.6	-8.67	-8.83	-0.04	-1.22	-5.95	-10.65	-4.34	-8.81	-4.94	-13.47
5500	30	-10.98	-7.61	-1.38	-1.43	-1.83	-5.65	-2.49	-5.28	-20.98	-4.32	-10.67	-8.67	-10.98
5500	45	-7.7	-8.31	-8.99	-2.69	-3.68	-10.28	-4.94	-11.98	-15.84	-5.37	-1.88	-16.95	-7.7
5500	60	-10.48	-7.44	-13.95	-5.8	-4.92	-4.67	-19.81	-9.92	-7.01	-9.98	-12.18	-11.78	-10.48
5500	75	-9.89	-11.69	-9.81	-3.47	-23.33	-3.68	-3.6	-5.78	-1.3	-15.21	-10.88	-14	-9.89
5500	90	-6.54	-5.68	-7.2	-2.74	-5.75	-4.18	-9.42	-9.47	-9.08	-22.68	-7.41	-13.05	-6.54
5500	105	-25.13	-3	-8.75	-2.29	-2.79	-5.78	-8.08	-4.98	-10.64	-8.24	-10.77	-5.45	-25.13
5500	120	-13.72	-8.6	-10.88	-9.68	-8.73	-8.02	-15.89	-4.33	-18.88	-5.74	-13.2	-9.92	-13.72
5500	135	-5.3	-8.48	-3.19	-7.39	-5.17	-15.63	-9.45	-4.89	-25.04	-8.28	-18.02	-7.4	-5.3
5500	150	-2.42	-10.03	-4.62	-3.84	-11.73	-2.71	-8.31	-5.03	-18.78	-7.71	-15.73	-8.99	-2.42
5500	165	-14.2	-12.71	-3.3	-14.8	-0.38	-7.78	1.62	-1.8	0.24	-10.71	-4.1	-19.88	-14.2
5500	180	-13.05	-1.55	-12.88	-0.18	-10.09	0.33	-8.99	-1.61	-10.37	-1.61	-12.23	-9.48	-13.05
5500	195	-7.83	0.02	-4.88	-7.34	-2.88	-10.91	0.98	-11.91	-7.07	-22	-7.67	-8.25	-7.83
5500	210	-9.47	-7.81	-15.5	-5.63	-4.52	-3.04	-10.47	-8.88	-0.78	-9.83	-13.15	-10.72	-9.47
5500	225	-3.98	-10.08	-12.75	-7.19	-14.64	-22.22	-7.6	-8.03	-4.78	-9.73	-7.94	-21.38	-3.98
5500	240	-17.3	-7.69	-9.98	-5.16	-5.31	-8.79	-6.75	-7.29	-1.31	-13.67	-10.48	-14.49	-17.3
5500	255	-11.12	-4.68	-1.47	-11.77	-10.48	-8.38	-3	-19.29	-2.28	-7.32	-8.8	-18.91	-11.12
5500	270	-12.62	-10.97	-2.25	-10.26	-1.25	-5.24	-5.03	-9.17	-11.33	-15.62	-13.78	-8.64	-12.62
5500	285	-18.03	-14.38	-5.2	-5.38	-3.71	-7.11	-7.8	-4.95	-8.11	-6.19	-9.97	-13.8	-18.03
5500	300	-7.75	-11.53	-3.4	-8.24	-8.72	-1.28	-0.84	-5.48	-17.84	-4.03	-24.89	-15.27	-7.75
5500	315	-6.03	-9.8	-2.81	-8.11	-2.37	-5.74	-2.19	-8.81	-5.29	-5.78	-12.2	-23.81	-6.03
5500	330	-24.68	-15.55	-3.77	-4.18	-5.41	-1.83	-5.28	-4.11	-5.39	-3.88	-3.17	-4.42	-24.68
5500	345	-22.18	-21.02	-19.88	-18.74	-17.6	-16.48	-17.89	-19.32	-20.75	-22.18	-23.61	-25.04	-22.18
5500	360	-14.62	-14.61	-14.4	-14.29	-14.18	-14.07	-13.98	-13.85	-13.74	-13.63	-13.52	-13.41	-14.62

Ant. Position: 5G Ant.4_GAIN THETA

Frequency	Phi#Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
5150	0	-4.63	-5.92	-6.68	-7.82	-4.42	-4.98	-6.82	-5.92	-5.52	-5.31	-5.2	-5.68	-4.63
5150	15	-3.66	-6.39	-16.74	-8.23	-8.48	-7.01	-4.29	-10.73	-1.19	-7.13	-0.57	-12.58	-3.66
5150	30	-19.03	1.8	-11.93	-2.45	-6.35	-4.23	-3.42	-15.53	-2.1	-9.08	0.57	-13.53	-19.03
5150	45	-11.67	-1.47	-14.65	-3.4	-12.78	-10.1	-7.49	-8.6	-8.43	-15.07	-2.22	-11.97	-11.67
5150	60	-10.47	0.47	-9.45	-4.55	0.04	-6.58	-1.83	-10.67	0.17	-8.95	-1	-5.49	-10.47
5150	75	-3.82	-8.11	-3.93	-3.42	-3.81	-14.1	-2.8	-2.08	-8.44	-2.01	1.3	-3.23	-3.82
5150	90	1.69	-4.71	-0.3	-2.23	-6.75	-18.8	-1.81	-3.88	-11.33	-2.48	-1.04	-0.67	1.69
5150	105	-0.64	-3.89	-0.88	-3.48	-0.33	-20.98	-2.08	-3.42	-9.93	-2.68	-4.31	1.54	-0.64
5150	120	-2.25	-5.68	-8.08	-8.37	-2.08	-13.78	-7.48	1.79	-12.48	-1.38	-2.28	1.12	-2.25
5150	135	-1.37	-3.73	-1.29	-15.83	-10.28	-4.48	-8.32	-1.32	-5.47	-3.78	-1.71	-5.48	-1.37
5150	150	-8.65	-1.41	-18.52	-12	-13.18	-14.09	-9.17	-5.51	-2.52	-2.17	-8.09	-5.1	-8.65
5150	165	-7.94	-13.13	-3.87	-12.37	-8.38	-10.2	-3.73	-9.61	-5.97	-8.45	-9.49	-8.94	-7.94
5150	180	-6.7	-9.62	-10.72	-11.64	-10.98	-11.65	-11.31	-10.18	-10.9	-10.42	-9.65	-10.31	-6.7
5150	195	-17.55	-5.28	-18.45	-4.04	-6.89	-7.17	-2.2	-8.08	-8.81	-12.55	-8.81	-15.85	-17.55
5150	210	-3.47	-8.75	-3.66	-10.05	-7.28	-10.98	-1.9	-5.34	-2.17	-3.29	-3.73	-6.18	-3.47
5150	225	-5.27	-1.37	-3.33	-4.21	-11.35	-8.23	-4.08	-8.28	-3.43	-8.58	-0.88	-1.92	-5.27
5150	240	-10.15	-3.83	-7.41	-5.75	-19.67	-3.42	-8.78	-8.6	1.7	-4.8	-1.18	-11.79	-10.15
5150	255	-5.75	-2.32	-3.87	-2.13	-12.88	-3.02	-7.88	-4.8	-1.13	-9.93	1.69	-4.14	-5.75
5150	270	-2.81	0.87	-8.92	-2	-8.88	-4.63	-7.05	-1.74	0.83	-7.58	-3.02	-1.82	-2.81
5150	285	1.37	0.41	-1.94	-5.99	-10.88	-4.55	-8.74	-5.11	-4.27	-2.03	-2.24	-8.83	1.37
5150	300	2.84	-7.98	0.31	-4.81	-8.44	-0.89	-12.27	-5.21	-13.72	-1.28	-4.94	-1.03	2.84
5150	315	-5.43	-8.69	-2.93	-13.88	-3.88	-8.45	-4.53	-5.15	-14.11	-3.4	-9.83	0.03	-5.43
5150	330	0.78	-4.94	0.94	-4.87	-4.95	-6.18	-11.55	-8.39	-7.11	0.61	-10.23	0.43	0.78
5150	345	-1.84	-4.21	-5.95	-7.1	-3.47	-5.25	-10.05	-2.28	-15.39	-0.95	-4.75	-2.01	-1.84
5150	360	-4.63	-5.92	-6.68	-7.82	-4.42	-4.98	-6.82	-5.92	-5.52	-5.31	-5.2	-5.68	-4.63
5500	0	-6.3	-7.38	-7.69	-7.88	-7.82	-7.68	-6.83	-7.68	-7.42	-7.82	-8.28	-4.82	-6.3
5500	15	-7.21	-4.1	-8.38	-10.21	-18.39	-17.23	-12.04	-7.31	-4.08	-7.28	-8.25	-7.84	-7.21
5500	30	-13.19	-3.55	-17.27	-0.35	-15.18	-5.85	-5.17	-18.17	-7	-4.43	-5.04	-9.78	-13.19
5500	45	-10.17	0.71	-8.91	-1.83	-8.88	-5.3	-1.61	-10.53	-1.92	-13.68	1.17	-13.68	-10.17
5500	60	-9.29	-1.11	-8.18	-8.72	-4.09	-10.25	0.17	-10.97	-2.44	-4.7	1.25	-16.54	-9.29
5500	75	-3.97	-1.89	-3.49	-1.91	-5.11	-9.28	-1.83	-2.65	1.09	-2.49	0.38	-2.28	-3.97
5500	90	-0.89	-1.69	-1.28	-4.99	-2.43	-10.42	-0.38	-0.19	-8.34	-1.09	-3.27	1.78	-0.89
5500	105	-8.83	-5.82	-0.39	1.1	-2.15	-11.41	-2.09	-0.79	-1.67	2.24	-3.97	-0.08	-8.83
5500	120	0.82	-3.7	-5.1	-7.8	-4.07	-5.04	-5.75	2.65	-3.44	2.27	-11.23	-2.34	0.82
5500	135	-0.19	-10.03	-5.93	-7.19	-8.81	-16.21	-16.14	2.58	-5.88	0.05	-8.79	2.84	-0.19
5500	150	-7.38	-3.33	-8.82	-7.8	-8.88	-10.7	-21.37	-2.3	-9.84	-1.14	-1.47	-0.88	-7.38
5500	165	0.84	-15.55	-1.09	-12.95	-1.72	-11.58	-6.58	-8.05	-20.6	-13.83	-19.2	-2.83	0.84
5500	180	-2.49	-2.9	-3.82	-3.88	-3.44	-4.89	-4.44	-4.88	-5.42	-4.58	-5.32	-4.63	-2.49
5500	195	-12.79	-5.01	-17.14	-5.32	-14.94	-7.21	-4.39	-16.82	-5.37	-13.54	-8.61	-13.01	-12.79
5500	210	-6.24	-5.9	-5.79	-5.7	-15.88	-9.57	-7.54	-10.18	0.11	-5.35	1.01	-5.82	-6.24
5500	225	-10.34	-2.16	-8	-3.45	-9.28	-11	-4.21	-8.02	2.25	-18.61	-1.94	-2.3	-10.34
5500	240	-5.34	-1.71	0.14	-2.24	-6.89	-4.94	-13.69	-7.38	0.87	-9.09	1.77	-3.73	-5.34
5500	255	-2.34	-2.23	-4.75	-0.5	-12.3	-3.85	-9.89	-4.61	-1.84	-9.35	2.3	-0.19	-2.34
5500	270	-1.88	-1.89	-0.97	-2.35	-7.27	-8.61	-5.38	-1.88	-4.19	-2.08	1.2	-0.83	-1.88
5500	285	1.29	-2.89	0.95	-2.42	-3.24	-3.19	-9.17	-1.33	-4.38	2.07	0.18	0.95	1.29
5500	300	-4.02	-4.74	-2.8	-2.37	-2.22	-1.3	-9.38	0.14	-4.59	-0.34	-5.72	-0.09	-4.02
5500	315	0.23	-8.24	-0.23	-4.9	-7.37	-1.21	-6.38	-1.97	-8	-0.59	-14.25	1.84	0.23
5500	330	0.25	-13.37	-4.8	-11.42	-8.48	-8.79	-11.93	-3.55	-19.93	-0.64	-13.4	1.78	0.25
5500	345	-2.53	-8.95	-8.99	-7.95	-6.37	-16.25	-5.09	-8.83	-12.11	-3.14	-8.01	-5.19	-2.53
5500	360	-6.3	-7.38	-7.69	-7.88	-7.82	-7.68	-6.83	-7.68	-7.42	-7.82	-8.28	-4.82	-6.3
5850	0	-6.1	-8.92	-8.88	-9.15	-9.31	-9.2	-8.55	-8.85	-7.48	-7.82	-8.2	-7.55	-6.1
5850	15	-14.05	-1.89	-9.12	-1.54	-29.89	-12.65	-4.5	-32.98	-1.57	-8	2.58	-8.61	-14.05
5850	30	-14.82	-3.12	-11.57	-4.48	-11.34	-5.64	-1.78	-12.59	-4.3	-8.72	1.94	-8.88	-14.82
5850	45	-10.27	2.31	-15.21	-1.07	-2.85	-11.34	-3.37	-8.37	-1.34	-9.84	2.78	-4.19	-10.27
5850	60	-3.41	-0.77	-5.28	0.19	-22.4	-8.83	-6.83	-11	1.2	-1.23	0.31	-2.33	-3.41
5850	75	-8.32	0.98	0.01	0.22	0.08	-6.85	-0.44	-5.13	1.67	0.49	-0.4	-3.51	-8.32
5850	90	-8.7	0.88	-5.05	-5.19	-2.95	-9.34	-4.11	-5.88	-1.8	-0.39	-4.71	0.57	-8.7
5850	105	-0.28	2.2	1.84	-0.07	-6.88	-2.88	-5.74	-0.28	-2.07	2.84	-5.82	2.28	-0.28
5850	120	-7.25	-11.27	0.82	-0.77	-4.19	-4.85	-7.84	2.19	-8.14	2.75	-3.09	2.72	-7.25
5850	135	-7.82	-17.01	2.74	-12.42	-10.24	-8.97	-5.78	2.12	-9.8	0.73	-4.07	2.51	-7.82
5850	150	-0.39	-7.16	-3.14	-8.39	-5.58	-4.58	-10.99	1.38	-12.12	-5.28	-4.01	1.75	-0.39
5850	165	-2.02	-4.51	-3.39	-22.98	-8.51	-4.11	-11.52	-3.58	-14.91	-15.15	-18.28	-2.93	-2.02
5850	180	-9.18	-8.82	-7.55	-9.89	-9.42	-8.58	-7.92	-7.08	-7.93	-7.82	-8.71	-8.04	-9.18
5850	195	-5.55	-2.29	-4.8	-8.83	-18.89	-10.37	-5.02	-13.22	-18.81	-11.35	-0.92	-12.58	-5.55
5850	210	-1.91	0.53	-8.23	-3.81	-8.83	-7.35	0.91	-11.48	0.45	-4.55	-5.98	-1.21	-1.91
5850	225	-6.1	2.7	-19.09	0.05	-7.14	-7.3	-1.84	-12.45	-10.39	-15.41	0.82	-8.38	-6.1
5850	240	-7.37	-5.98	-2.43	0.01	-8.44	-8.8	-7.19	-4.98	1.85	-11.55	2.23	-15.95	-7.37
5850	255	-1.88	-0.5	-4.5	0.32	-8.08	1.1	-11.05	-2.77	-0.5	-3.85	2.48	-2.09	-1.88
5850	270	0.84	-0.83	0.13	-8.31	-8.98	-3.84	-14.8	-4.95	0.47	-0.27	0.98	1.58	0.84
5850	285	1.03	-4.68	-1.8	-2.84	-15.58	-2.37	-8.78	-1.51	-1.98	0.67	-1.12	1.53	1.03
5850	300	-5.83	-5.75	-4.57	-3.81	-0.98	-8.15	-5.99	0.95	-12.25	0.18	-0.93	0.54	-5.83
5850	315	-5.55	-8.18	-2.97	-8.14	-7.39	-0.85	-8.54	-3.38	-8.77	-0.52	-8.38	-2.38	-5.55
5850	330	0.42	-7.11	-0.25	-8.78	-8.83	-10.12	-7.54	-2.8	-15.35	-1.58	-12.47	0.19	0.42
5850	345	-0.01	-15.34	-2.45	-8.92	-4.41	-29.61	-10.71	-8.05	-3.62	-0.65	-4.89	-0.28	-0.01
5850	360	-6.1	-8.92	-8.88	-9.15	-9.31	-9.2	-8.55	-8.85	-7.48	-7.82	-8.2	-7.55	-6.1

Ant. Position: 5G Ant.5_GAIN PHI

Frequency	Phi/Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
5150	0	-19.83	-19.49	-19.15	-18.81	-18.47	-18.13	-17.81	-17.49	-20.17	-20.85	-21.53	-22.21	-19.83
5150	15	-28.19	-11.21	-18.3	-7.4	-11.21	-5.03	-8.69	-11	-8.85	-7.83	-14.95	-17.74	-28.19
5150	30	-14.79	-15.18	-8.7	-12.1	-5.7	-11.05	-3.84	-14.14	-9.92	-14.14	-3.82	-13.95	-14.79
5150	45	-14.25	-16.45	-9.95	-8.85	-5.89	-5.28	-5	-13.38	-8.28	-11.03	-4.89	-8.38	-14.25
5150	60	-21.95	-16.32	-11.69	-9.05	-9.35	-20.55	-4.45	-9.05	-8.19	-5.97	-11.33	-20.92	-21.95
5150	75	-10.07	-18.09	-9.88	-7.37	-8.21	-5.84	-9.39	-4.87	-12.23	-2.95	-18.4	-16.99	-10.07
5150	90	-14.91	-11.72	-8.14	-7.37	-7.21	-11.22	-8.25	-8.88	-8.1	-19.49	-18.58	-9.27	-14.91
5150	105	-9.99	-20.23	-7.89	-8.78	-8.94	-16.8	-12.93	-7.48	-8.85	-9.81	-8.89	-28.77	-9.99
5150	120	-14.15	-12.65	-9.87	-17.4	-8.72	-7.82	-7.45	-0.32	0.87	1.43	-17.83	-9.89	-14.15
5150	135	-8.78	-8.87	-14.78	-10.2	-9.7	-11.38	-9.11	-0.82	-10.3	-10.49	-8.85	-8.73	-8.78
5150	150	-9.04	-19.18	-8.77	-15.73	-21.7	-5.41	-18.67	-8.8	-10.82	-20.82	-15.87	-4.89	-9.04
5150	165	-12.3	-14.83	-7.95	-20.25	-4.24	-8.84	-5.47	-8.2	-7.28	-12.8	-21.03	-8.8	-12.3
5150	180	-9.82	-7.3	-13.72	-7.53	-24.99	-4.08	-4.19	-5.92	-9.52	-11.93	-18.45	-13.81	-9.82
5150	195	-11.85	-8.55	-8.34	-10.47	-18.54	-18.35	-8.04	-8.88	-25.95	-13.49	-8.88	-9.8	-11.85
5150	210	-21.17	-10.57	-8.17	-7.27	-11.81	-5.84	-5.08	-10.9	-8.82	-9.78	-15.91	-9.82	-21.17
5150	225	-12.89	-12	-12.84	-8.92	-12.82	-8.8	-4.71	-15.79	-8.8	-9.03	-8.89	-8.4	-12.89
5150	240	-10.25	-16.14	-8.08	-7.19	-13.28	-13.41	-4.85	-10.35	-9.91	-9.15	-24.12	-14.83	-10.25
5150	255	-11.38	-18.87	-8.74	-9.12	-5.53	-18.7	-7.27	-10.41	-17.33	-20.11	-17.1	-30.08	-11.38
5150	270	-25.81	-11.39	-5.8	-8.45	-8.83	-10.5	-4.41	-14.77	-13.34	-17.22	-11.75	-18.24	-25.81
5150	285	-28.92	-7.91	-12.34	-8.1	-12.93	-7.93	-8.57	-8.92	-8.7	-14.73	-22.85	-9.74	-28.92
5150	300	-13.87	-11.45	-11.27	-12.38	-7.57	-7.33	-8.22	-3.11	-15.22	-4.03	-10.09	-20.8	-13.87
5150	315	-24.35	-19.67	-8.73	-10.83	-8.88	-8.77	-12.58	-9.28	-8.91	-4.24	-13.5	-8.44	-24.35
5150	330	-18.89	-14.51	-9.82	-3.33	-19.84	-9.14	-9.42	-9.73	-7.81	-12.98	-11.93	-15.77	-18.89
5150	345	-12.47	-11.52	-11.17	-10.82	-9.87	-9.22	-8.57	-7.92	-7.27	-8.82	-5.97	-8.32	-12.47
5150	360	-19.83	-19.49	-19.15	-18.81	-18.47	-18.13	-17.81	-17.49	-20.17	-20.85	-21.53	-22.21	-19.83
5500	0	-28.83	-25.02	-23.41	-21.8	-20.19	-18.68	-18.97	-15.38	-13.75	-12.14	-10.53	-8.92	-28.83
5500	15	-11.99	-12.11	-9.81	-4.57	-12.29	-8.23	-7.98	-9.22	-10.99	-4.82	-8.5	-15.82	-11.99
5500	30	-19.1	-9.13	-11.88	-7.98	-8.2	-10.59	-10.29	-8.32	-7.59	-15.08	-9.84	-14.13	-19.1
5500	45	-27.81	-9.84	-11.1	-5.37	-8.22	-10.18	-2.51	-12.88	-4.08	-8.07	-8.31	-14.08	-27.81
5500	60	-7.15	-8.08	-5.84	-8.38	-8.18	-2.81	-5.51	-7.81	-8.45	-4.99	-8.49	-11.89	-7.15
5500	75	-14.24	-9.88	-3.1	-12.44	-7.07	-8.87	-3.2	-9.57	-8.72	-5.42	-8.27	-11.81	-14.24
5500	90	-17.97	-15.55	-11.24	-7.74	-8.92	-10.53	-15.53	-2.14	-7.47	-19.85	-13.24	-22.58	-17.97
5500	105	-23.79	-19.22	-18.78	-8.84	-5.3	-3.25	-8.24	-5.85	-11.33	-9.57	-12.02	-19.1	-23.79
5500	120	-11.74	-10.53	-4.95	-14.21	-8.84	-17.85	-0.54	-3.92	-4.21	-3.87	-8.94	-8.43	-11.74
5500	135	-4.43	-5.87	-11.11	-10.1	0.41	-13.88	-5.51	-11.82	-18.31	-7.27	-9.43	-8.18	-4.43
5500	150	-7.3	-21.73	-11.71	-13.8	-8.45	-5.35	-21.17	-9.91	-32.64	-18.24	-15.88	-9.82	-7.3
5500	165	-14.48	-12.04	-8.83	-12.15	-1	-13.22	-4.22	-5.64	-5.09	-18.47	-12.31	-11.18	-14.48
5500	180	-19.82	-13.15	-13.88	-4.81	-19.33	-3.91	-4.8	-2.21	-9.37	-18.29	-11.42	-8.45	-19.82
5500	195	-20.84	-9.38	-9.33	-8.18	-7.08	-8.91	-9.7	-18.79	-7.18	-10.42	-9.12	-13.82	-20.84
5500	210	-18.74	-5.35	-14.21	-1.84	-15.15	-9.08	-5.92	-4.99	-10.13	-18.1	-5.15	-14.4	-18.74
5500	225	-14.78	-14.5	-19.95	-10.12	-10.82	-4.55	-11.25	-4.02	-3.19	-9.09	-7.28	-10.84	-14.78
5500	240	-7.88	-7.39	-3.71	-19.8	-5.4	-15.9	-7.19	-3.48	-7.44	-9.03	-12.51	-12.05	-7.88
5500	255	-12.18	-8.55	-2.89	-7.57	-7.97	-4.41	-3.88	-8.71	-11.01	-12.53	-13.47	-10.31	-12.18
5500	270	-10.92	-9.47	-10.39	-4.98	-4.11	-5.71	-12.85	-4.14	-5.05	-3.93	-10.95	-8.84	-10.92
5500	285	-11.99	-11.82	-18.39	-8.88	-3.82	-10.14	-8.43	-8.28	-9.08	-8.4	-7.22	-7.2	-11.99
5500	300	-28.19	-12.23	-6.9	-5.93	-14.45	-15.57	-8.28	-18.02	-10.2	-5.91	-19.71	-8.55	-28.19
5500	315	-14.89	-12.55	-8.33	-14.02	-4.59	-7.88	-8.41	-8.38	-5.3	-8.29	-8.47	-18.45	-14.89
5500	330	-10.18	-10.55	-8.51	-8.75	-7.53	-5.85	-7.05	-8.64	-9.72	-7.87	-9.24	-12.18	-10.18
5500	345	-10.18	-10.55	-8.51	-8.75	-7.53	-5.85	-7.05	-8.64	-9.72	-7.87	-9.24	-12.18	-10.18
5500	360	-28.83	-25.02	-23.41	-21.8	-20.19	-18.68	-18.97	-15.38	-13.75	-12.14	-10.53	-8.92	-28.83
5850	0	-15.83	-15.55	-15.47	-15.39	-15.31	-15.23	-15.15	-15.07	-14.99	-14.91	-14.83	-14.75	-15.83
5850	15	-10.41	-8.99	-7.31	-13.2	-4.85	-8.85	-3.31	-15.17	-10.39	-9.55	-4.1	-18.33	-10.41
5850	30	-13.58	-9.42	-3.45	-7.3	-8.57	-7.17	-7.84	-10.39	-11.63	-7.32	-14.35	-4.15	-13.58
5850	45	-12.02	-12.21	-11.83	-5.28	-11.8	-12	-12.72	-4.87	-8.79	-9.88	-2.17	-13.85	-12.02
5850	60	-9.77	-9.97	-3.1	-7.08	-2.7	-8.81	-1.12	-3.48	-5.33	-7.28	-7.81	-8.17	-9.77
5850	75	-11.13	-28.42	-12.58	-4.97	-4.2	-7.08	-5.58	-3.95	-8.83	-4.14	-10.71	-19.78	-11.13
5850	90	-8.82	-10.82	-3.57	-8.92	-4.44	-6.93	-13.88	-5.49	-7.89	-22.02	-3.43	-19.74	-8.82
5850	105	-18.27	-13.15	-11.84	-9.92	-7.88	-2.82	-11.5	-4.03	-4.89	-14.88	-3.8	-9	-18.27
5850	120	-8.74	-8.47	-5.5	-8.82	-3.02	-8.57	-5.81	-8.97	-3.85	-2.28	-5.64	-9.42	-8.74
5850	135	-4.22	-8.8	-7.78	-18.95	-4.82	-13.44	-10.95	-8.94	-8.89	0.5	-15.09	-17.13	-4.22
5850	150	-20.34	-14.35	-8.88	-8.84	-20.29	-18.45	-11.18	-13.72	-11.17	-3.73	-8.53	-15.5	-20.34
5850	165	-10.29	-10.32	-7.42	-18.05	-18.02	-17.84	-0.81	-5.38	-4.11	-14.29	-10.2	-24.08	-10.29
5850	180	-7.13	-12.42	-17.85	-1.18	-10.4	-0.82	-3.39	-4.78	-8.98	-9.83	-12.48	-3.83	-7.13
5850	195	-12.95	-9.33	-11.12	-8.42	-7.88	-5.15	-1.45	-14.03	-4.58	-12.73	-18.43	-9.38	-12.95
5850	210	-8.18	-7.37	-3.81	-8.82	-10.7	-3.8	-1.28	-3.34	-2.68	-2.95	-9.02	-5.12	-8.18
5850	225	-31	-11.7	-11.47	-10.89	-14.71	-4.43	-10.14	-5.73	-1.82	-5.34	-17.04	-7.78	-31
5850	240	-14.52	-11.27	-1.31	-7.75	-8.11	-17.38	-5.19	-8.83	-5.7	-8.93	-15.87	-9.9	-14.52
5850	255	-7.95	-2.37	-13.77	-8.08	-14.44	-18.7	-7.53	-11.34	-13.48	-13.31	-2.14	-14.73	-7.95
5850	270	-11.93	-10.43	-9.55	-8.89	-2.88	-4.35	-7.11	-1.77	-0.25	-14.77	-8.25	-3.14	-11.93
5850	285	-15.1	-21.87	-18.54	-2.42	-3.18	-2.03	-10.1	-14.57	-5.28	-9.83	-9.41	-10.34	-15.1
5850	300	-8.81	-8.21	-8.81	-17.88	-8.08	-0.82	-3.43	-9.8	-7	-5.87	-4.57	-8.75	-8.81
5850	315	-22.84	-10.83	-10.73	-3.99	-3.74	-7.89	-10.24	-8.98	-9	-9.13	-14.02	-19.71	-22.84
5850	330	-22.48	-18.1	-12.78	-4.88	-13.28	-2.7	-12.37	-8.03	-14.93	-4.8	-8.9	-17.11	-22.48
5850	345	-10.27	-10.25	-16.25	-11.83	-12.74	-11.05	-18.02	-15.44	-13.24	-12.62	-17.85	-8.02	-10.27
5850	360	-15.83	-15.55	-15.47	-15.39	-15.31	-15.23	-15.15	-15.07	-14.99	-14.91	-14.83	-14.75	-15.83

Ant. Position: 5G Ant.5_GAIN THETA

Frequency	Phi#Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
5150	0	-3.62	-4.66	-6.25	-5.21	-5.98	-5.99	-6.25	-5.14	-5.93	-6.25	-3.05	-5.25	-3.62
5150	15	-10.29	-3.57	-11.5	-18.69	-10.16	-3.54	-17.12	-8.42	-7.91	-20.17	-0.32	-6.52	-10.29
5150	30	-6.7	-4.17	-23.46	-0.97	-18.14	-6.01	-6.07	-8.33	-6.76	-11.45	-3.95	-6.47	-6.7
5150	45	-6.21	-1.33	-6.73	-0.99	-4.8	-3.02	-2.74	-7.33	-3.76	-6.98	-1.63	-6.33	-6.21
5150	60	-4.22	0.49	-6.37	-3.03	-3.34	-2.84	0.62	-7.23	-1.66	-2.03	-2.02	-3.34	-4.22
5150	75	-6.3	-2.35	-9.75	-1.19	-3.72	-11.61	-0.25	-7.99	-3.45	-3.37	-3.35	-4.09	-6.3
5150	90	-0.16	-8.23	0.91	-6.04	-3.39	-4.61	-7.05	-9.99	-11.72	-2.99	-7.45	-1.49	-0.16
5150	105	1.02	-4.41	-2.43	-3.8	-1.42	-5.96	-7.66	-8.39	-10.25	2.64	-4.97	-8.24	1.02
5150	120	-1.25	-2.89	-3	-3.69	-6.42	-10.13	-2.85	-7.39	-12	-1.19	-2.25	-5.02	-1.25
5150	135	-0.43	-6.85	-1.26	-6.39	-14.91	-11.25	-12.1	-6.85	-7.9	-3.35	-12.82	-4.25	-0.43
5150	150	-11.44	-2.19	-11.9	-6.45	-13.07	-4.18	-7.46	-18.86	-6.22	-16.37	-3.83	-10.61	-11.44
5150	165	-5.39	-12.18	-6.79	-32.02	-4.3	-3.12	-4.74	-4.02	-4.78	-3.69	-4.33	-20.37	-5.39
5150	180	-2.69	-3.02	-3.35	-3.65	-4.01	-4.34	-4.67	-5	-5.33	-5.66	-5.99	-6.32	-2.69
5150	195	-12.38	-4.39	-15.16	-5.83	-9.69	-6.14	-16.32	-7.89	-11.92	-2.62	-11.04	-10.73	-12.38
5150	210	-2.07	-17.6	-1.33	-10.86	-23.05	-6.78	-3.03	-5.6	-6.66	-9.26	-11.09	-2.61	-2.07
5150	225	-10.87	-0.82	-13.67	-6.15	-6.77	-18	-6.05	-21.18	-2.27	-16.66	-2.88	-15.89	-10.87
5150	240	-5.35	-1.83	-6.87	-7.78	-9.6	-1.98	-10.13	-6.03	-1.59	-4.35	1.35	-3.69	-5.35
5150	255	-11.98	-0.41	-6.3	-4.75	-3.43	-1.87	-14.31	-8.81	-1.38	-6.65	0.05	-12.69	-11.98
5150	270	-9.34	-0.85	-10.4	-0.95	-4.97	-3.44	-10.25	-8.87	-3.89	-9.73	0.04	-5.88	-9.34
5150	285	-1.44	-14.5	-3.72	-3.66	-1.88	-2.84	-15.15	-1.6	-5.47	-4.85	-3.05	-3.53	-1.44
5150	300	-2.08	-11.81	-0.88	-11.82	-2.3	-0.45	-6.02	-1.62	-3.61	-0.38	-4.89	-1.33	-2.08
5150	315	-4.69	-7.63	-3.25	-6.65	1.27	-9.04	-13.44	-7.69	-4.24	-3.35	-7.86	-0.49	-4.69
5150	330	-1.23	-9.81	-2.27	-8.2	-3.05	-6.95	-11.05	-8.81	-12.03	-1.26	-9.99	-1.13	-1.23
5150	345	-2.27	-4	-3.65	-6.05	-6.57	-16.23	-7.69	-11.36	-16.27	-10.98	-6.32	-1.97	-2.27
5150	360	-3.62	-4.66	-6.25	-5.21	-5.98	-5.99	-6.25	-5.14	-5.93	-6.25	-3.05	-5.25	-3.62
5500	0	-10.23	-10.2	-10.17	-10.14	-10.11	-10.08	-10.05	-10.02	-9.99	-9.96	-9.93	-9.9	-10.23
5500	15	-18.73	-2.41	-17.44	-4.4	-11.02	-15.08	-3.15	-7.2	-6.01	-11	-11.13	-6.04	-18.73
5500	30	-20.11	-7.73	-16.78	-3.02	-6.67	-5.55	-6.73	-20.85	-4.58	-6.71	-4.21	-9.29	-20.11
5500	45	-17.67	0.02	-5.97	-4.27	-5.33	-7.44	-0.41	-21.67	1.2	-10.35	0.19	-12.36	-17.67
5500	60	-5.02	2.19	-1.61	0.7	-4.02	-4.12	-0.27	-10.17	-1.64	-4.46	0.04	-0.13	-5.02
5500	75	0.93	1.29	-1.78	1.84	0.66	-6.98	-0.69	-6.67	-2.11	-2.43	-0.25	-2.92	0.93
5500	90	1.23	-2.8	-1.48	0.64	0.64	-4.1	-0.85	-4.33	-3.08	-0.61	-1.54	-5.99	1.23
5500	105	2.74	-1.71	0.41	-4.45	-0.65	-7.92	-6.84	-3.4	-4.3	-1.02	-7.71	-5.88	2.74
5500	120	-5.63	-0.34	1.46	-7.42	-4.31	-9.61	-6.41	-7.23	-6.16	-1.68	-16.17	-5.28	-5.63
5500	135	-2.65	-12.65	0.89	-4.66	-7.06	-15.31	-14.69	-2.9	-13.14	-3.35	-11.04	-5.99	-2.65
5500	150	-5.2	-12.44	-4.77	-10.08	-21.14	-7.53	-17.73	-6.17	-14.97	-6.8	-12.29	-5.28	-5.2
5500	165	-6.13	-13.69	-5.42	-13.63	-6.7	-12.69	-9.99	-7.32	-15.77	-16.86	-13.19	-12.78	-6.13
5500	180	-6.16	-6.07	-7.99	-7.91	-7.63	-7.75	-7.67	-7.69	-7.51	-7.43	-7.35	-7.27	-6.16
5500	195	-13.11	-6.73	-10.48	-12.92	-16.83	-6.09	-7.99	-16.83	-11.75	-13.76	-5.47	-6.17	-13.11
5500	210	-9.1	-4.8	-5.97	-12.86	-15.66	-10.23	-10.89	-12.65	-6.35	-14.05	-1.66	-14.22	-9.1
5500	225	-14.63	1.27	-14.67	-0.73	-10.38	-13.06	-6.75	-18.23	-2.46	-16.14	-2.27	-23.98	-14.63
5500	240	-5.12	1.17	-5.66	-3.42	-5.61	-7.89	-6.26	-23.5	0.67	-2.62	-3.52	-5.94	-5.12
5500	255	-3.64	1.94	-1.78	-0.97	-2.23	-1.42	-6.49	-2.42	1.35	-4.44	-6.05	-6.65	-3.64
5500	270	0.84	-0.01	-0.54	-1.99	-0.38	-0.16	-9.47	-1.95	-0.05	-6.16	-1.93	-2.25	0.84
5500	285	-3.14	-1.78	-0.67	-0.14	-0.94	0.93	-6.8	-3.39	1.49	-3.69	-1.03	-7.9	-3.14
5500	300	1.5	-12.03	1.67	-3.8	-0.8	-1.97	-10.39	-1.4	-4.17	-0.1	-9.21	-6.25	1.5
5500	315	-3.63	-10.36	0.33	-12.01	-2.77	-1.3	-7.71	-1.65	-13.7	1.23	-10.53	-4.62	-3.63
5500	330	0.87	-9.39	-3.26	-9.36	-3.25	-13.16	-4.34	-3.7	-22.55	-6.39	-11.67	-7.72	0.87
5500	345	-2.14	-13.26	-7.67	-15.03	-16.07	-7.27	-3.16	-3.6	-19.02	-4.62	-6.55	-2.9	-2.14
5500	360	-10.23	-10.2	-10.17	-10.14	-10.11	-10.08	-10.05	-10.02	-9.99	-9.96	-9.93	-9.9	-10.23
6880	0	-12.66	-12.67	-12.48	-12.29	-12.1	-11.91	-11.72	-11.63	-11.34	-11.15	-10.96	-10.77	-12.66
6880	15	-16.9	-3.21	-11.49	-3.67	-14.61	-5.39	-4.72	-22.13	-6	-11.76	-2.47	-9.33	-16.9
6880	30	-11.88	-0.19	-23	-2.3	-18.12	-4.29	-4.22	-4.66	-1.51	-6.76	-2.42	-10.66	-11.88
6880	45	-9.93	-3.65	-10.51	-2.25	-4.37	-2.4	-1.51	-7.82	-0.52	-12.67	-3.48	-3.28	-9.93
6880	60	-4.61	-0.99	-6.05	-0.37	-8.02	-4.82	-1.69	-10.67	-1.66	-3.22	-1.57	-2.98	-4.61
6880	75	-5.63	0.8	-11.88	-2.02	-1.48	-1.74	-0.63	-6.74	-0.45	-0.89	-1.78	-2.18	-5.63
6880	90	1.84	0.62	2.53	-3.04	-2.09	-9.27	-11.61	-4.49	-0.7	0.61	-0.11	-1.89	1.84
6880	105	-5.95	-6.63	-2.78	-7.96	-4.31	-13.13	-1.66	-1.93	-6.58	-10.65	-2.27	-6.57	-5.95
6880	120	-5.02	-0.99	0.17	-4.04	-6.78	-9.68	1.13	-5.19	-17.14	-8.62	-2.45	-6.98	-5.02
6880	135	2.71	-3.66	-5.62	-4.97	-1.74	-13.79	-7.69	-2.69	-25.43	-7.14	-3.25	-5.99	2.71
6880	150	-6.54	-6.35	0.95	-4.21	-6.09	-5.23	-13	-3.1	-6.54	-6.22	-10.17	-3.06	-6.54
6880	165	-2.98	-7.45	-11.48	-6.63	-5.36	-9.72	-6.61	-16.19	-5.66	-5.62	-18.45	-7.25	-2.98
6880	180	-5.02	-4.95	-4.88	-4.81	-4.74	-4.67	-4.6	-4.63	-4.46	-4.39	-4.32	-4.25	-5.02
6880	195	-14.99	-4.46	-11.06	-5.45	-9.93	-7.46	-7.31	-5.84	-12.5	-3.03	-11.42	-15.2	-14.99
6880	210	-6.49	-2.05	-10.7	-1.29	-6.33	-12.47	-3.55	-6.51	-4.62	-21.91	0.33	-6.33	-6.49
6880	225	-3.11	-5.25	-7.41	-2.05	-2.75	-4.62	-5.27	-9.67	-1.14	-16.64	-14.25	-16.41	-3.11
6880	240	-3.17	-6.95	-9.93	0.66	-0.28	-11.4	-2.74	-3.93	-0.37	-2.33	-10.53	-2.39	-3.17
6880	255	-2.94	2.15	1.72	0.25	-4.61	-2.51	0.62	-7.79	1.65	-1.29	-12.25	-10.65	-2.94
6880	270	0.7	-1.63	-3.33	1.79	-1.65	-3.47	-6.09	-0.05	-5.07	-10.02	-12.02	-3.75	0.7
6880	285	-2.02	-0.19	2.37	-1.73	-1.93	-0.37	-4.94	-0.65	-6	0.7	-2.65	-10.02	-2.02
6880	300	-2.26	-6.31	2.13	-4.25	-5.6	-1.92	-1.35	0.66	-5.45	-0.29	-4.65	-5.65	-2.26
6880	315	1.25	-9.02	-0.61	-4.73	-7.15	-0.3	-4.64	-2.7	-6.94	-0.4	-7.6	-6.22	1.25
6880	330	0.84	-6.42	1.47	-9.96	-3.32	-9.61	-6.45	-4.33	-12.96	-0.04	-10.66	-4.48	0.84
6880	345	-4.63	-10.04	-4.07	-19.06	-9.65	-6.49	-6.24	-10.44	-37.63	-3.65	-7.32	-5.11	-4.63
6880	360	-12.66	-12.67	-12.48	-12.29	-12.1	-11.91	-11.72	-11.63	-11.34	-11.15	-10.96	-10.77	-12.66