

Antenna Composite Gain Test Report

1. Test Information

Equipment	EMT
Brand Name	Nokia
Model Name	G-1426G-F
Applicant	Nokia
Manufacturer	Nokia

2. Testing Location

Testing Location	
AOT Kunshan Lab	ADD: 289 Jinghua Road, Shipai, Bacheng Town, Kunshan City, Jiangsu Province

Test Condition	Test Engineer	Test Environment (°C / %)	Test Date	Signature
Radiated	Changgan Lai	20-24 / 45-60	03.30.2025~03.30.2025	Changgan Lai

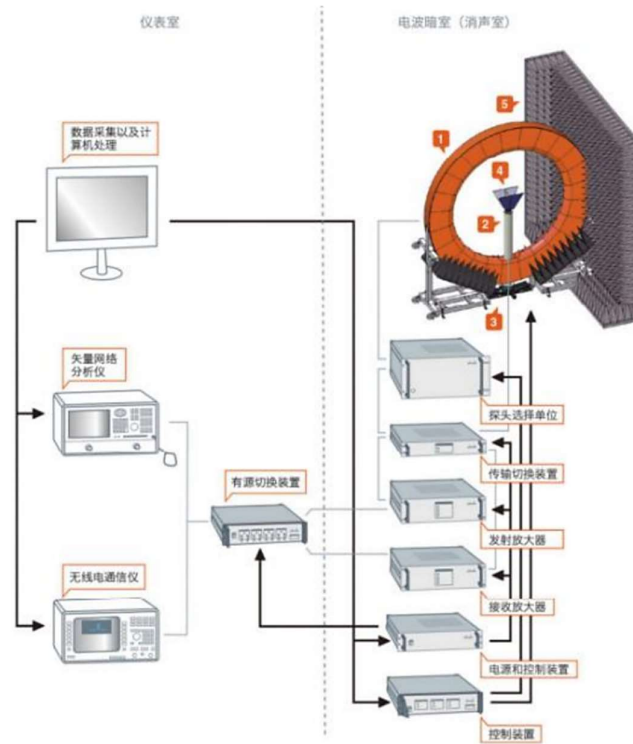
3. Test Frequency

Band (MHz)	Test Frequency (MHz)
2400-2500	2400/2450/2500
5150-5850	5150/5500/5850

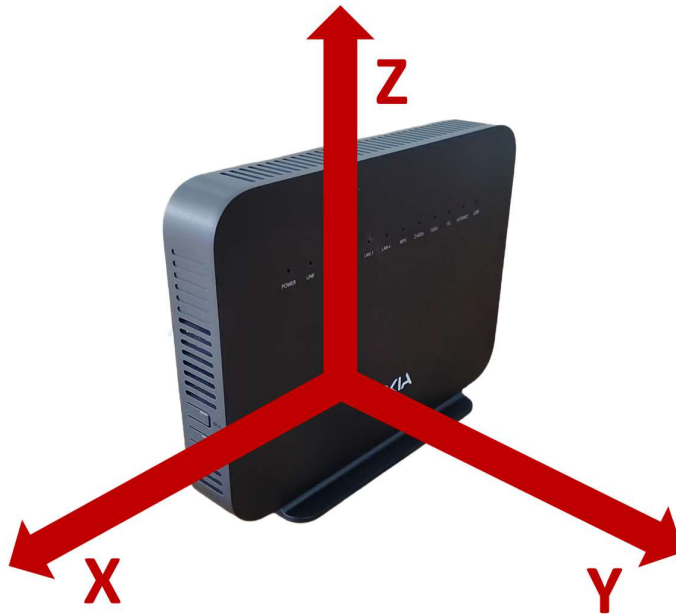
4. Antenna Information

Ant. Position	Brand Name	Model Name	Ant. Type	Connector
Antenna 1 (2.4G)	Nokia	ANT-P2425-N31	Dipole	I-PEX
Antenna 2 (5G)	Nokia	ANT-P5158-N22	Dipole	I-PEX
Antenna 3 (5G)	Nokia	ANT-P5158-N23	Dipole	I-PEX
Antenna 4 (2.4G)	Nokia	ANT-P2425-N32	Dipole	I-PEX

5. Test Configuration



6. Reference Calibration





CALIBRATION PASS

CAL.DATA: 2025.2.10

NEXT CAL.DATA: 2026.2.9

7. 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 2 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.

8. Measured Values and Calculation of Correlated /

Uncorrelated Gains

Antenna Peak Gain Table (Ant. Position: 2.4G Ant.1,Ant.4)

Band (MHz)	2400-2500		
Frequency (MHz)	2400	2450	2500
Ant.1 Max Gain (dBi)	4.20	3.23	3.65
Ant.4 Max Gain (dBi)	3.94	3.79	3.47
Max Gain (dBi)	4.20	3.79	3.65

Antenna Peak Gain Table (Ant. Position: 5G Ant.2~3)

Band (MHz)	5150-5850		
Frequency (MHz)	5150	5500	5850
Ant.2 Max Gain (dBi)	3.59	3.19	2.91
Ant.3 Max Gain (dBi)	2.58	3.01	2.73
Max Gain (dBi)	3.59	3.19	2.91

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 2 degree steps of theta and 10 degree of theta 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 D01F(2)(f)(ii) for CDD and KDB 662911 D01, F(2)(e)(ii) for TxBF.

The uncorrelated antenna gain was calculated using KDB 662911 D01F(2)(d)(ii) for SDM.

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

(ii) If antenna gains are not equal, the user may use either of the following methods to calculate directional gain. provided that each transmit antenna s driven by only one spatial stream.

- Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ur} set equal to the gain of the antenna having the highest gain, or.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

If all transmit signals are completely uncorrelated, then

$$Directional\ gain = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{ANT}] \text{ dBi}$$

Maximum Correlated / Uncorrelated Gain Calculation

Correlated Gain

(Ant. Position: 2.4G Ant.1,Ant.4)

Frequency (MHz)	2400	2450	2500
Ant.1 Gain(dBi)	2.72	2.01	2.03
Ant.4 Gain(dBi)	2.96	3.54	3.45
Phi (°)	100	106	108
Theta (°)	-82	-86	-88
Correlated Gain	5.85	5.82	5.78

(Ant. Position: 5G Ant.2~3)

Frequency (MHz)	5150	5500	5850
Ant.2 Gain(dBi)	2.25	3.07	2.91
Ant.3 Gain(dBi)	2.43	2.78	2.72
Phi (°)	130	172	6
Theta (°)	102	-86	-100
Correlated Gain	5.35	5.94	5.83

Calculation example

$$10 \times \log\{[10^{(2.72\text{dBi} / 20)} + 10^{(2.96\text{ dBi} / 20)}]^2 / 2\} = 5.85\text{dBi}$$

Uncorrelated Gain**(Ant. Position: 2.4G Ant.1,Ant.4)**

Frequency (MHz)	2400	2450	2500
Ant.1 Gain(dBi)	2.72	1.80	2.03
Ant.4 Gain(dBi)	2.96	3.68	3.45
Phi (°)	100	108	108
Theta (°)	-82	-86	-88
Uncorrelated Gain	2.84	2.84	2.80

(Ant. Position: 5G Ant.2~3)

Frequency (MHz)	5150	5500	5850
Ant.2 Gain(dBi)	2.25	3.07	2.91
Ant.3 Gain(dBi)	2.44	2.78	2.72
Phi (°)	130	172	6
Theta (°)	102	-86	-100
Uncorrelated Gain	2.35	2.93	2.82

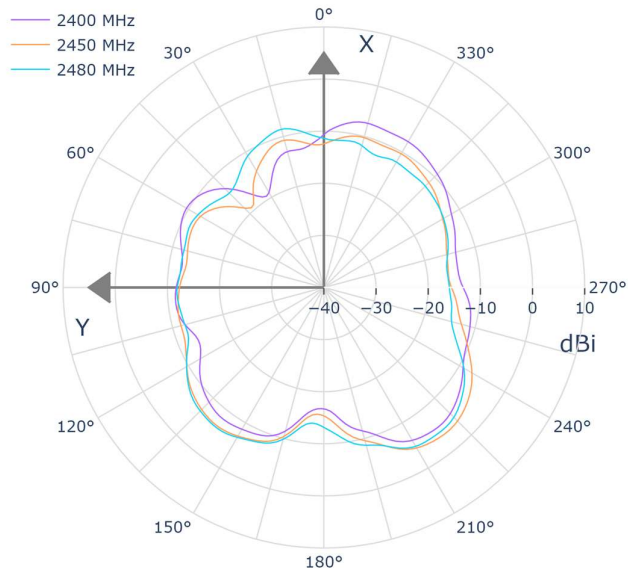
Calculation example

$$=10 \times \log_{10}(((10^{(2.72 \text{ dBi} / 10)} + 10^{(2.96 \text{ dBi} / 10)})) / 2) = 2.84 \text{ dBi}$$

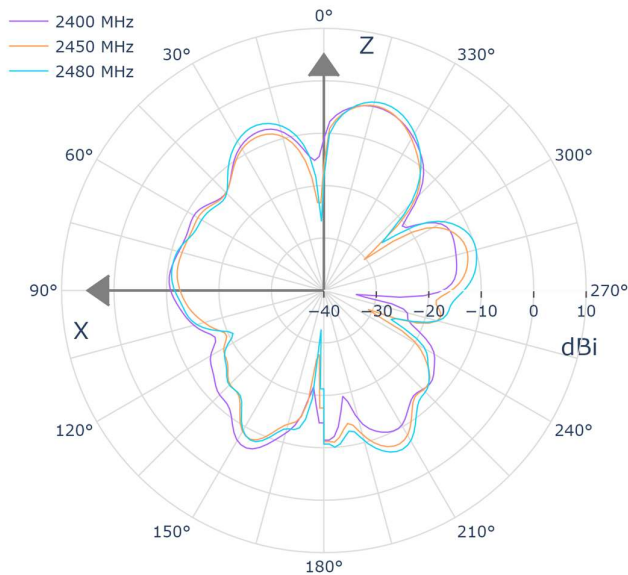
9. Radiation Pattern

Ant. Position: 2.4G Ant.1,Ant4

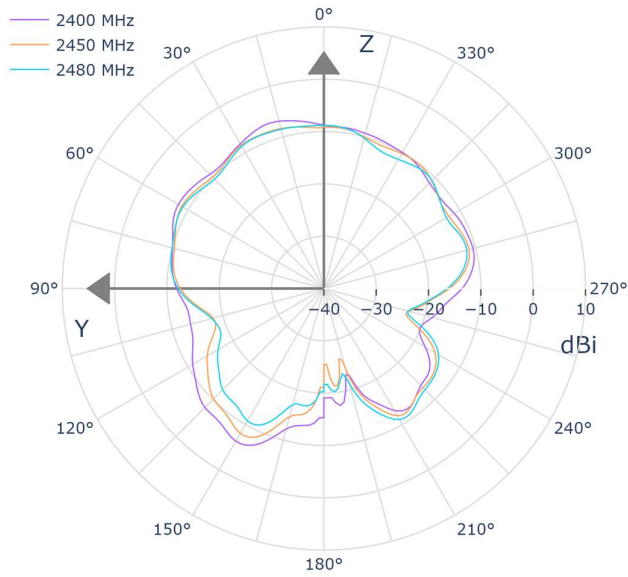
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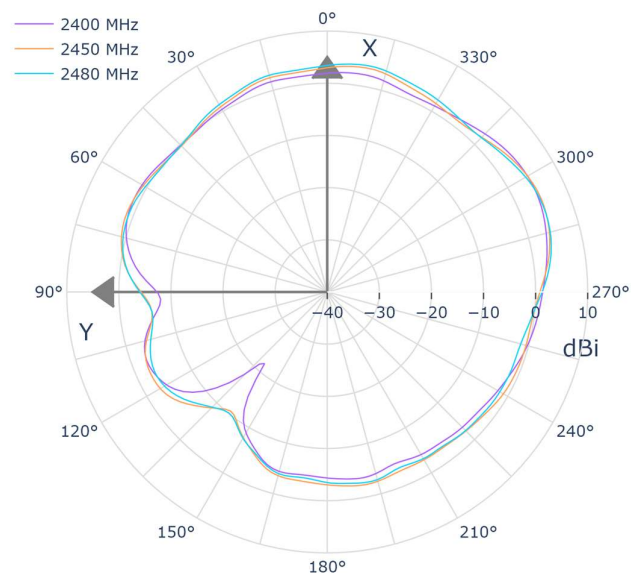
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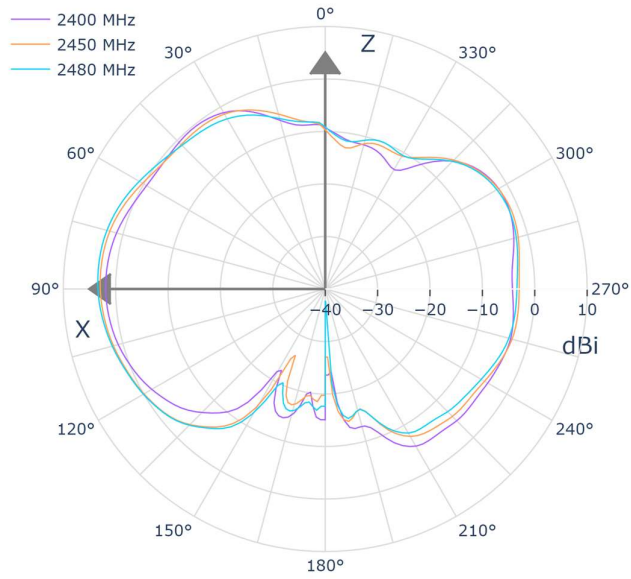
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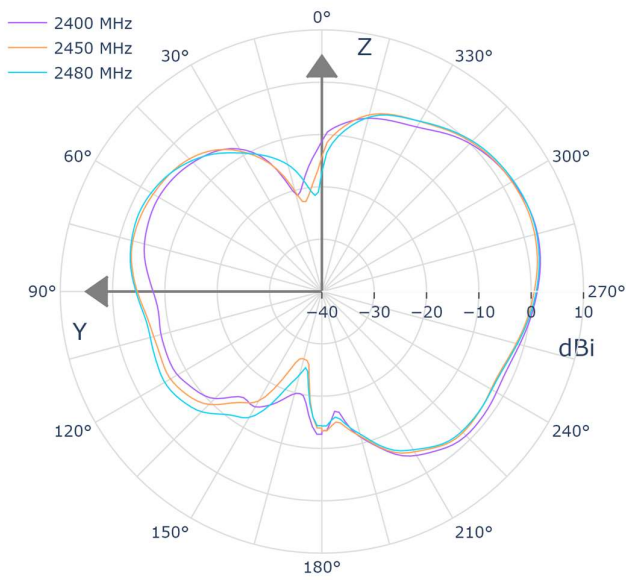
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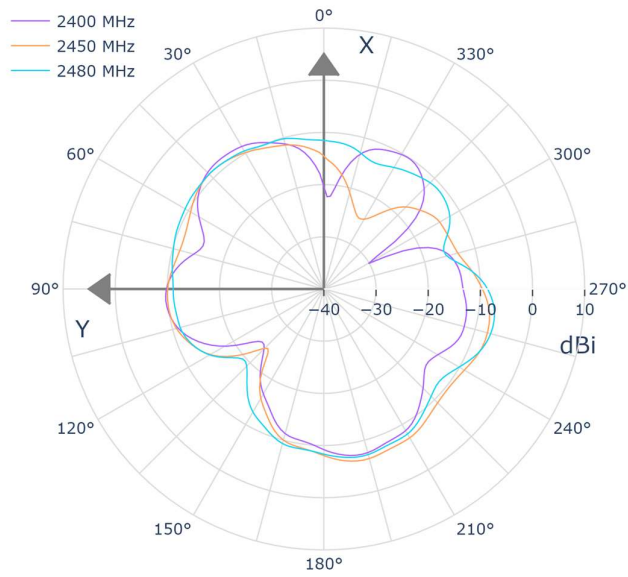
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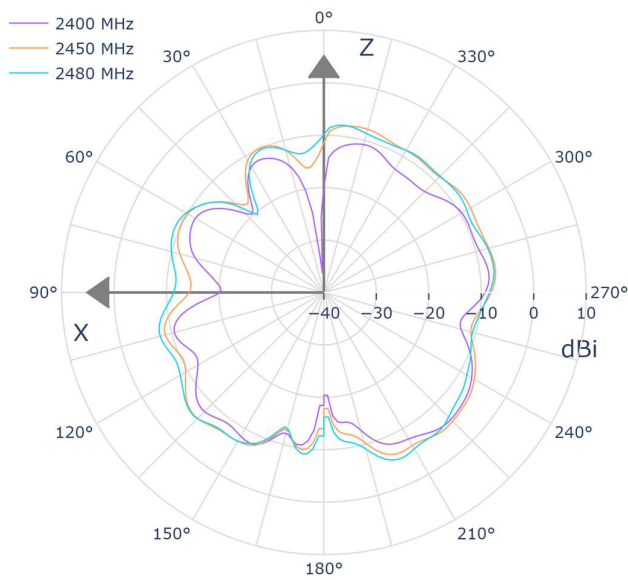
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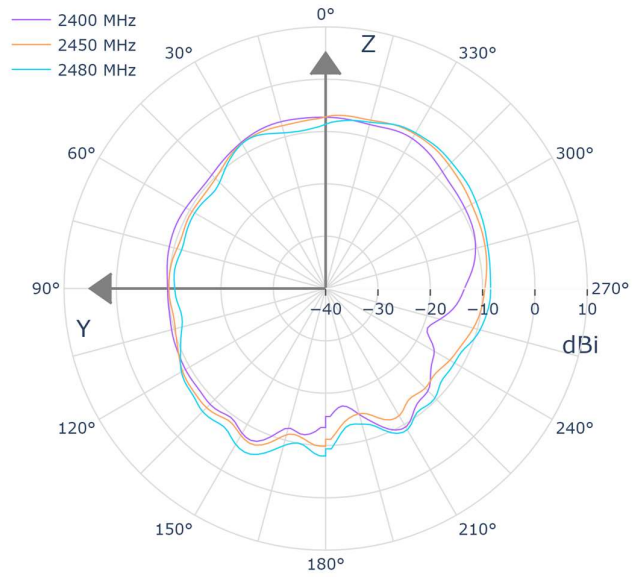
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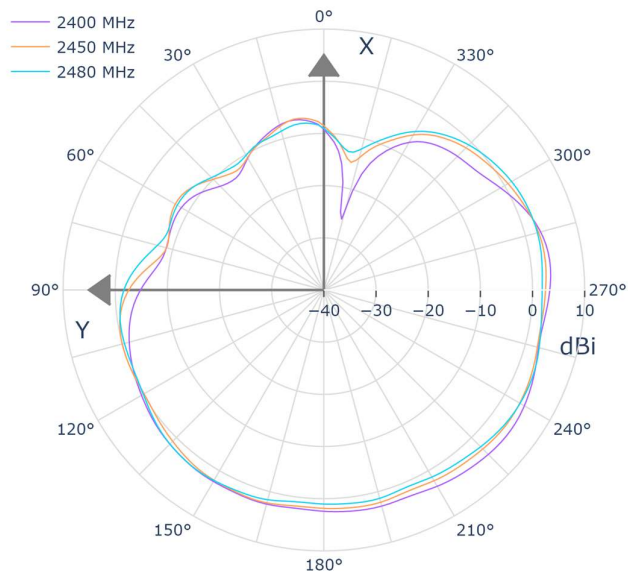
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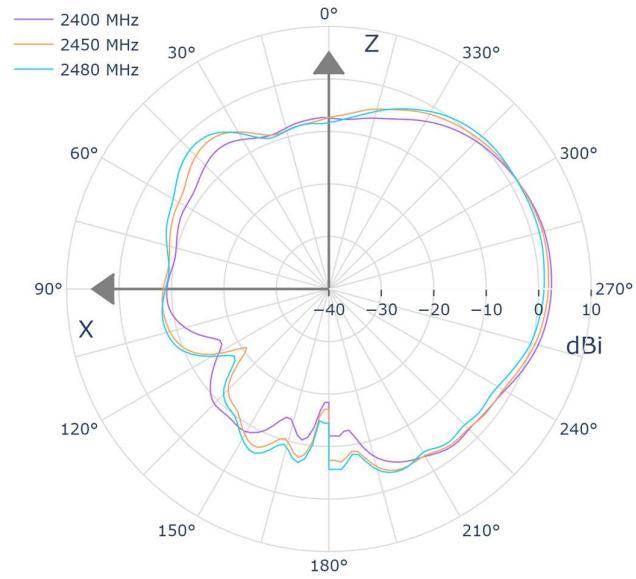
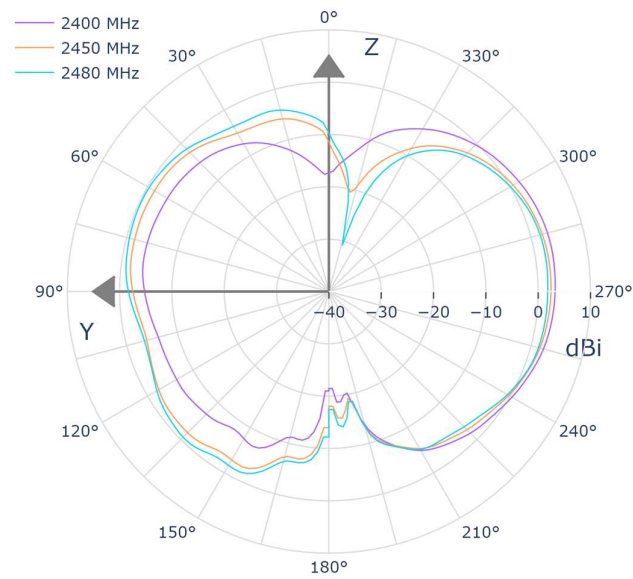


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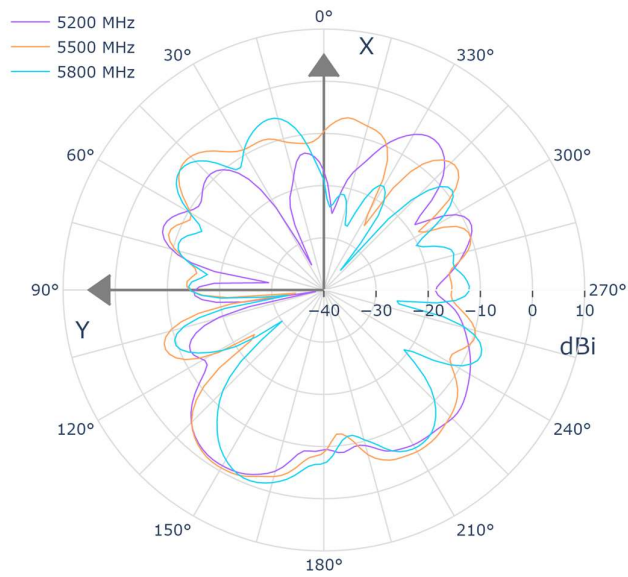
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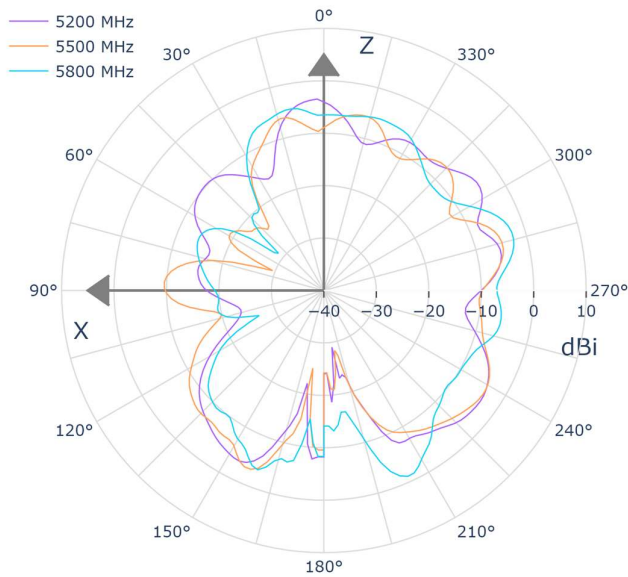
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Ant. Position: 5G Ant.2~3

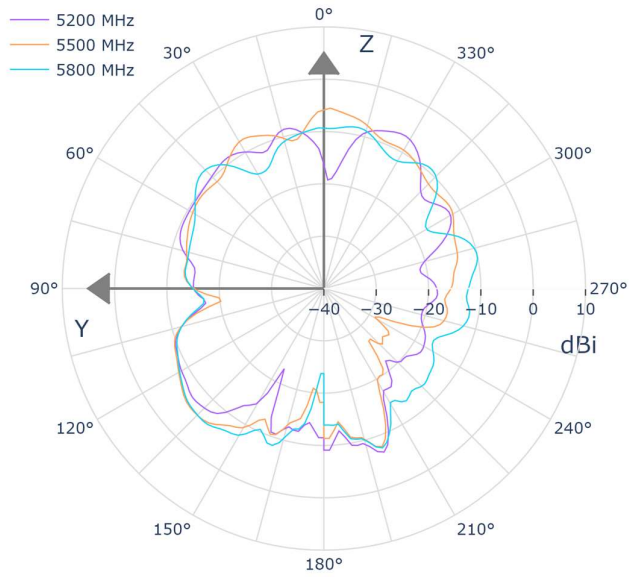
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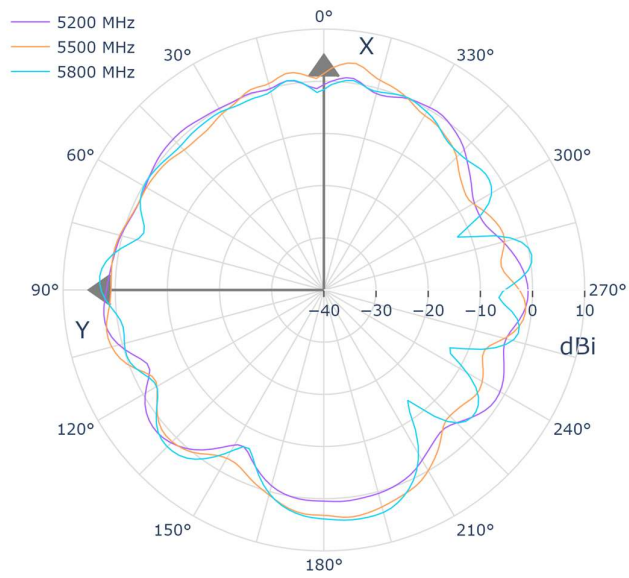
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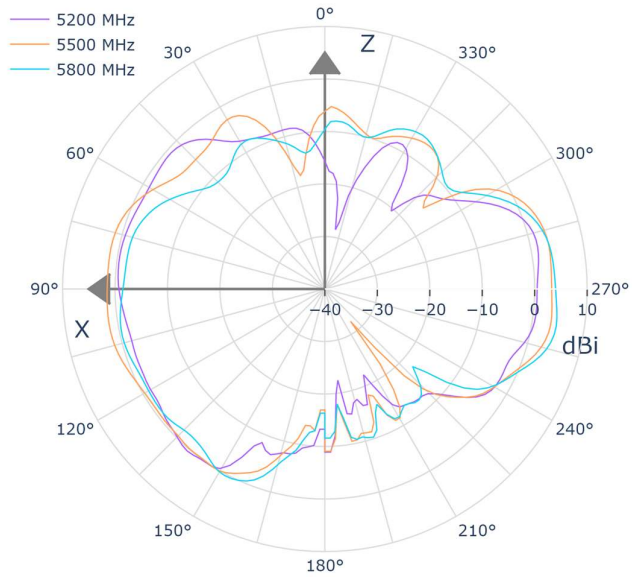
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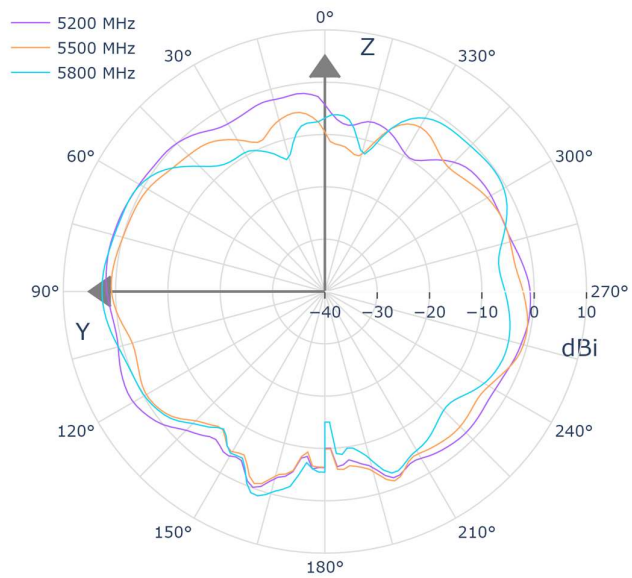
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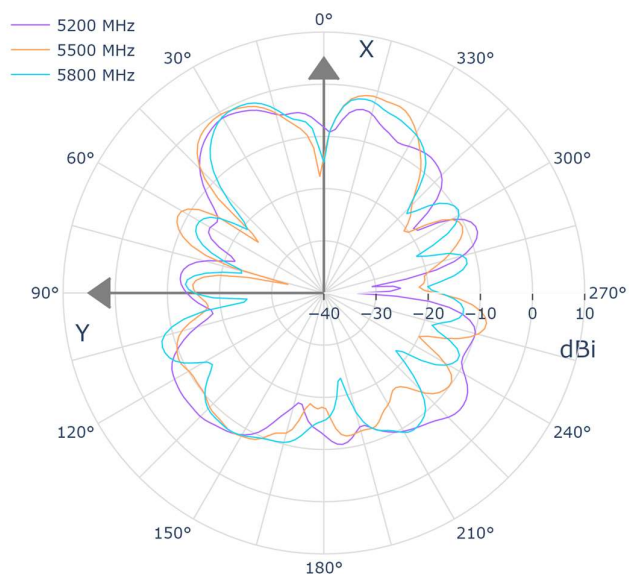
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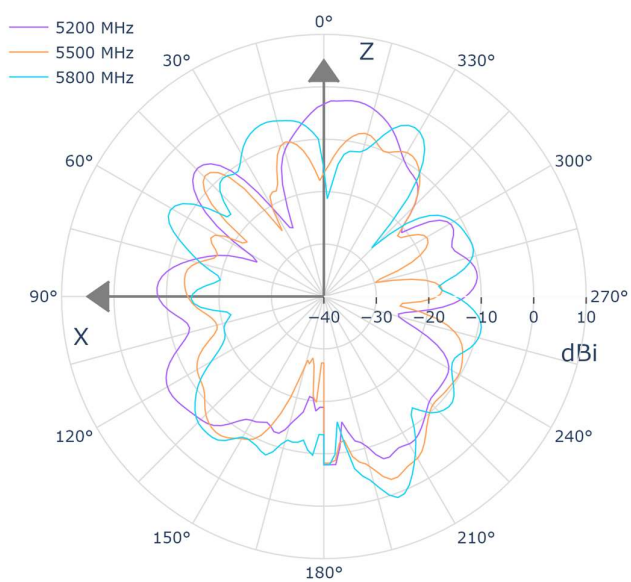
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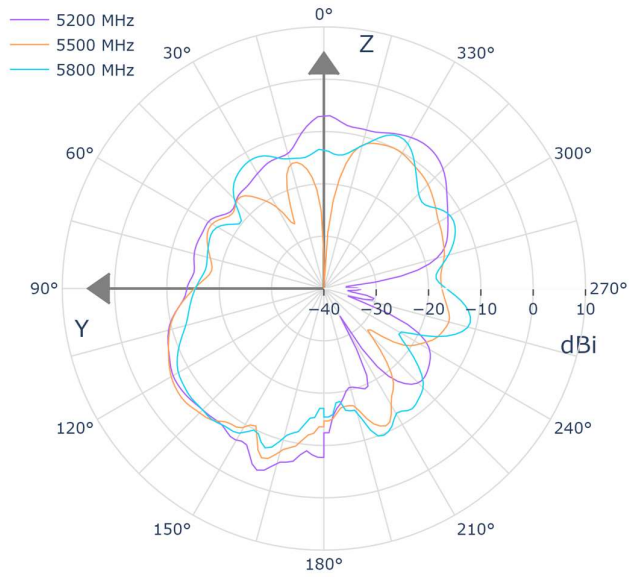
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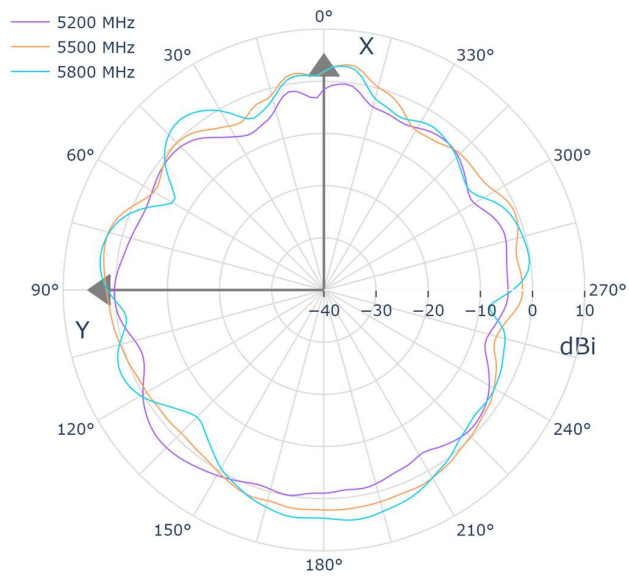
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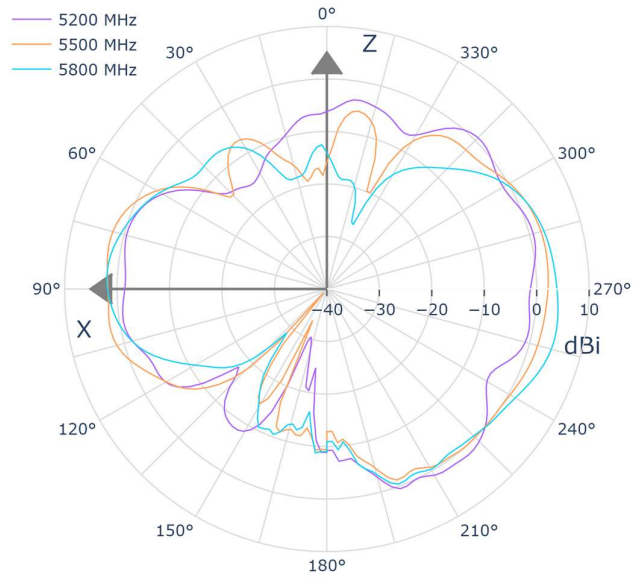
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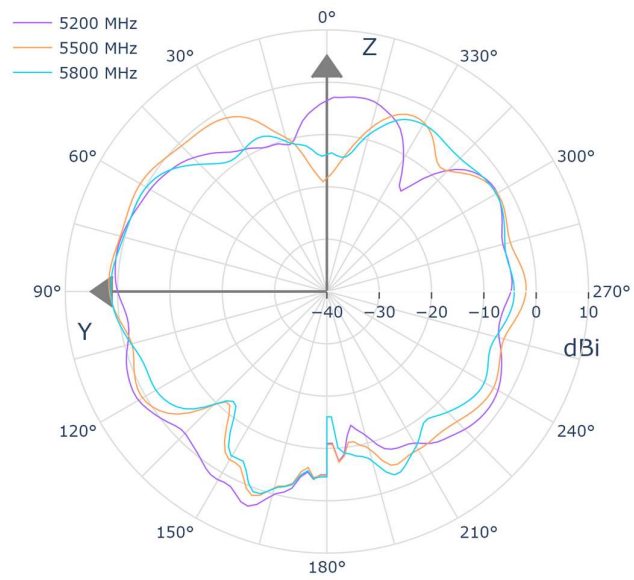
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XZ_Pol._Theta_Ant.3@5G



YZ_Pol._Theta_Ant.3@5G



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Frequency

Ant. Position: 5G Ant.3_GAIN THETA

Frequency	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
1	0.0000	1.7244	3.4488	5.1732	6.8976	8.6220	10.3464	12.0708	13.7952	15.5196	17.2440	18.9684	20.6928	22.4172	24.1416	25.8660	27.5904	29.3148	31.0392	32.7636	34.4880	36.2124	37.9368	39.6612	41.3856	43.1100	44.8344	46.5588	48.2832	50.0076	51.7320	53.4564	55.1808	56.9052	58.6296	60.3540	62.0784	63.8028	65.5272	67.2516	68.9760	70.6996	72.4240	74.1484	75.8728	77.5972	79.3216	81.0460	82.7704	84.4948	86.2192	87.9436	89.6680	91.3924	93.1168	94.8412	96.5656	98.2900	100.0144	101.7388	103.4632	105.1876	106.9120	108.6364	110.3608	112.0852	113.8096	115.5340	117.2584	118.9828	120.7072	122.4316	124.1560	125.8804	127.6048	129.3292	131.0536	132.7780	134.5024	136.2268	137.9512	139.6756	141.4000	143.1244	144.8488	146.5732	148.2976	150.0220	151.7464	153.4708	155.1952	156.9196	158.6440	160.3684	162.0928	163.8172	165.5416	167.2660	168.9904	170.7148	172.4392	174.1636	175.8880	177.6124	179.3368	181.0612	182.7856	184.5100	186.2344	187.9588	189.6832	191.4076	193.1320	194.8564	196.5808	198.3052	200.0296	201.7540	203.4784	205.2028	206.9272	208.6516	210.3760	212.1004	213.8248	215.5492	217.2736	218.9980	220.7224	222.4468	224.1712	225.8956	227.6200	229.3444	231.0688	232.7932	234.5176	236.2420	237.9664	239.6908	241.4152	243.1396	244.8640	246.5884	248.3128	250.0372	251.7616	253.4860	255.2104	256.9348	258.6592	260.3836	262.1080	263.8324	265.5568	267.2812	269.0056	270.7300	272.4544	274.1788	275.9032	277.6276	279.3520	281.0764	282.8008	284.5252	286.2496	287.9740	289.6984	291.4228	293.1472	294.8716	296.5960	298.3204	300.0448	301.7692	303.4936	305.2180	306.9424	308.6668	310.3912	312.1156	313.8400	315.5644	317.2888	319.0132	320.7376	322.4620	324.1864	325.9108	327.6352	329.3596	331.0840	332.8084	334.5328	336.2572	337.9816	339.7060	341.4304	343.1548	344.8792	346.6036	348.3280	350.0524	351.7768	353.5012	355.2256	356.9500	358.6744	360.3988	362.1232	363.8476	365.5720	367.2964	369.0208	370.7452	372.4696	374.1940	375.9184	377.6428	379.3672	381.0916	382.8160	384.5404	386.2648	387.9892	389.7136	391.4380	393.1624	394.8868	396.6112	398.3356	400.0600	401.7844	403.5088	405.2332	406.9576	408.6820	410.4064	412.1308	413.8552	415.5796	417.3040	419.0284	420.7528	422.4772	424.2016	425.9260	427.6504	429.3748	431.0992	432.8236	434.5480	436.2724	437.9968	439.7212	441.4456	443.1700	444.8944	446.6188	448.3432	450.0676	451.7920	453.5164	455.2408	456.9652	458.6896	460.4140	462.1384	463.8628	465.5872	467.3116	469.0360	470.7604	472.4848	474.2092	475.9336	477.6580	479.3824	481.1068	482.8312	484.5556	486.2800	488.0044	489.7288	491.4532	493.1776	494.9020	496.6264	498.3508	500.0752	501.7996	503.5240	505.2484	506.9728	508.6972	510.4216	512.1460	513.8704	515.5948	517.3192	519.0436	520.7680	522.4924	524.2168	525.9412	527.6656	529.3900	531.1144	532.8388	534.5632	536.2876	538.0120	539.7364	541.4608	543.1852	544.9096	546.6340	548.3584	550.0828	551.8072	553.5316	555.2560	556.9804	558.7048	560.4292	562.1536	563.8780	565.6024	567.3268	569.0512	570.7756	572.5000	574.2244	575.9488	577.6732	579.3976	581.1220	582.8464	584.5708	586.2952	588.0196	589.7440	591.4684	593.1928	594.9172	596.6416	598.3660	600.0904	601.8148	603.5392	605.2636	606.9880	608.7124	610.4368	612.1612	613.8856	615.6100	617.3344	619.0588	620.7832	622.5076	624.2320	625.9564	627.6808	629.4052	631.1296	632.8540	634.5784	636.3028	638.0272	639.7516	641.4760	643.2004	644.9248	646.6492	648.3736	650.0980	651.8224	653.5468	655.2712	656.9956	658.7200	660.4444	662.1688	663.8932	665.6176	667.3420	669.0664	670.7908	672.5152	674.2396	675.9640	677.6884	679.4128	681.1372	682.8616	684.5860	686.3104	688.0348	689.7592	691.4836	693.2080	694.9324	696.6568	698.3812	700.1056	701.8300	703.5544	705.2788	707.0032	708.7276	710.4520	712.1764	713.9008	715.6252	717.3496	719.0740	720.7984	722.5228	724.2472	725.9716	727.6960	729.4204	731.1448	732.8692	734.5936	736.3180	738.0424	739.7668	741.4912	743.2156	744.9400	746.6644	748.3888	750.1132	751.8376	753.5620	755.2864	757.0108	758.7352	760.4596	762.1840	763.9084	765.6328	767.3572	769.0816	770.8060	772.5304	774.2548	775.9792	777.7036	779.4280	781.1524	782.8768	784.6012	786.3256	788.0500	789.7744	791.4988	793.2232	794.9476	796.6720	798.3964	800.1208	801.8452	803.5696	805.2940	807.0184	808.7428	810.4672	812.1916	813.9160	815.6404	817.3648	819.0892	820.8136	822.5380	824.2624	825.9868	827.7112	829.4356	831.1600	832.8844	834.6088	836.3332	838.0576	839.7820	841.5064	843.2308	844.9552	846.6796	848.4040	850.1284	851.8528	853.5772	855.3016	857.0260	858.7504	860.4748	862.1992	863.9236	865.6480	867.3724	869.0968	870.8212	872.5456	874.2700	875.9944	877.7188	879.4432	881.1676	882.8920	884.6164	886.3408	888.0652	889.7896	891.5140	893.2384	894.9628	896.6872	898.4116	900.1360	901.8604	903.5848	905.3092	907.0336	908.7580	910.4824	912.2068	913.9312	915.6556	917.3800	919.1044	920.8288	922.5532	924.2776	926.0020	927.7264	929.4508	931.1752	932.8996	934.6240	936.3484	938.0728	939.7972	941.5216	943.2460	944.9704	946.6948	948.4192	950.1436	951.8680	953.5924	955.3168	957.0412	958.7656	960.4900	962.2144	963.9388	965.6632	967.3876	969.1120	970.8364	972.5608	974.2852	976.0096	977.7340	979.4584	981.1828	982.9072	984.6316	986.3560	988.0804	989.8048	991.5292	993.2536	994.9780	996.7024	998.4268	1000.1512	1001.8756	1003.6000	1005.3244	1007.0488	1008.7732	1010.4976	1012.2220	1013.9464	1015.6708	1017.3952	1019.1196	1020.8440	1022.5684	1024.2928	1026.0172	1027.7416	1029.4660	1031.1904	1032.9148	1034.6392	1036.3636	1038.0880	1039.8124	1041.5368	1043.2612	1044.9856	1046.7100	1048.4344	1050.1588	1051.8832	1053.6076	1055.3320	1057.0564	1058.7808	1060.5052	1062.2296	1063.9540	1065.6784	1067.4028	1069.1272	1070.8516	1072.5760	1074.3004	1076.0248	1077.7492	1079.4736	1081.1980	1082.9224	1084.6468	1086.3712	1088.0956	1089.8200	1091.5444	1093.2688	1094.9932	1096.7176	1098.4420	1100.1664	1101.8908	1103.6152	1105.3396	1107.0640	1108.7884	1110.5128	1112.2372	1113.9616	1115.6860	1117.4104	1119.1348	1120.8592	1122.5836	1124.3080	1126.0324	1127.7568	1129.4812	1131.2056	1132.9300	1134.6544	1136.3788	1138.1032	1139.8276	1141.5520	1143.2764	1145.0008	1146.7252	1148.4496	1150.1740	1151.8984	1153.6228	1155.3472	1157.0716	1158.7960	1160.5204	1162.2448	1163.9692	1165.6936	1167.4180	1169.1424	1170.8668	1172.5912	1174.3156	1176.0400	1177.7644	1179.4888	1181.2132	1182.9376	1184.6620	1186.3864	1188.1108	1189.8352	1191.5596	1193.2840	1195.0084	1196.7328	1198.4572	1200.1816	1201.9060	1203.6304	1205.3548	1207.0792	1208.8036	1210.5280	1212.2524	1213.9768	1215.7012	1217.4256	1219.1500	1220.8744	1222.5988	1224.3232	1226.0476	1227.7720	1229.4964	1231.2208	1232.9452	1234.6696	1236.3940	1238.1184	1239.8428	1241.5672	1243.2916	1245.0160	1246.7404	1248.4648	1250.1892	1251.9136	1253.6380	1255.3624	1257.0868	1258.8112	1260.5356	1262.2600	1263.9844	1265.7088	1267.4332	1269.1576	1270.8820	1272.6064	1274.3308	1276.0552	1277.7796	1279.5040	1281.2284	1282.9528	1284.6772	1286.4016	1288.1260	1289.8504	1291.5748	1293.2992	1295.0236	1296.7480	1298.4724	1300.1968	1301.9212	1303.6456	1305.3700	1307.0944	1308.8188	1310.5432	1312.2676	1313.9920	1315.7164	1317.4408	1319.1652	1320.8896	1322.6140	1324.3384	1326.0628	1327.7872	1329.5116	1331.2360	1332.9604	1334.6848	1336.4092	1338.1336	1339.8580	1341.5824	1343.3068	1345.0312	1346.7556	1348.4800	1350.2044	1351.9288	1353.6532	1355.3776	1357.1020	1358.8264	1360.5508	1362.2752	1363.9996	1365.7240	1367.4484	1369.1728	1370.8972	1372.6216	1374.3460	1376.0704	1377.7948	1379.5192	1381.2436	1382.9680	1384.6924	1386.4168	1388.1412	1389.8656	1391.5900	1393.3144	1395.0388	1396.7632	1398.4876	1400.2120	1401.9364	1403.6608	1405.3852	1407.1096	1408.8340	1410.5584	1412.2828	1414.0072	1415.7316	1417.4560	1419.1804	1420.9048	1422.6292	1424.3536	1426.0780	1427.8024	1429.5268	1431.2512	1432.9756	1434.7000	1436.4244	1438.1488	1439.8732	1441.5976	1443.3220	1445.0464	1446.7708	1448.4952	1450.2196	1451.9440	1453.6684	1455.3928	1457.1172	1458.8416	1460.5660	1462.2904	1464.0148	1465.7392	1467.4636	1469.1880	1470.9124	1472.6368	1474.3612	1476.0856	1477.8100	1479.5344	1481.2588	1482.9832	1484.7076	1486.4320	1488.1564	1489.8808	1491.6052	1493.3296	1495.0540	1496.7784	1498.5028	1500.2272	1501.9516	1503.6760	1505.4004	1507.1248	1508.8492	1510.5736	1512.2980	1514.0224	1515.7468	1517.4712	1519.1956	1520.9200	1522.6444	1524.3688	1526.0932	1527.8176	1529.5420	1531.2664	1532.9908	1534.7152	1536.4396	1538.1640	1539.8884	1541.6128	1543.3372	1545.0616	1546.7860	1548.5104	155