Chicony® IPD R&D

承　　認　　書

SPECIFICATION　APPROVAL SHEET

Brand:msi

Model:8ZB5

品　名 **PRODUCT　NAME**	PCB Antenna
料號/版次 **P/N:/REV.**	MG-2137
DATE：	2022/10/16

審核 **CHECKED BY**	制作 **MADE　BY**	確認 **APPROVED BY**
Ken Chang	**Ken Chang**	**Will Lee**

公司名稱：群光電子股份有限公司

Company：Chicony Electronics Co., Ltd.

聯系地址：新北市三重區光復路二段 69 號 39 樓

ADDRESS：39F,No.69,Sec.2,Guangfu Rd.,Sanchong Dist.,New Taipei City 241

聯系 E-mail: Ken_Chang@chicony.com

聯絡電話：TEL:886-2-6626-6788#12235

4. Rating：

Operating Temperature： -25℃~125℃

Storage Temperature：20℃~25℃ R.H.65%(For reference)

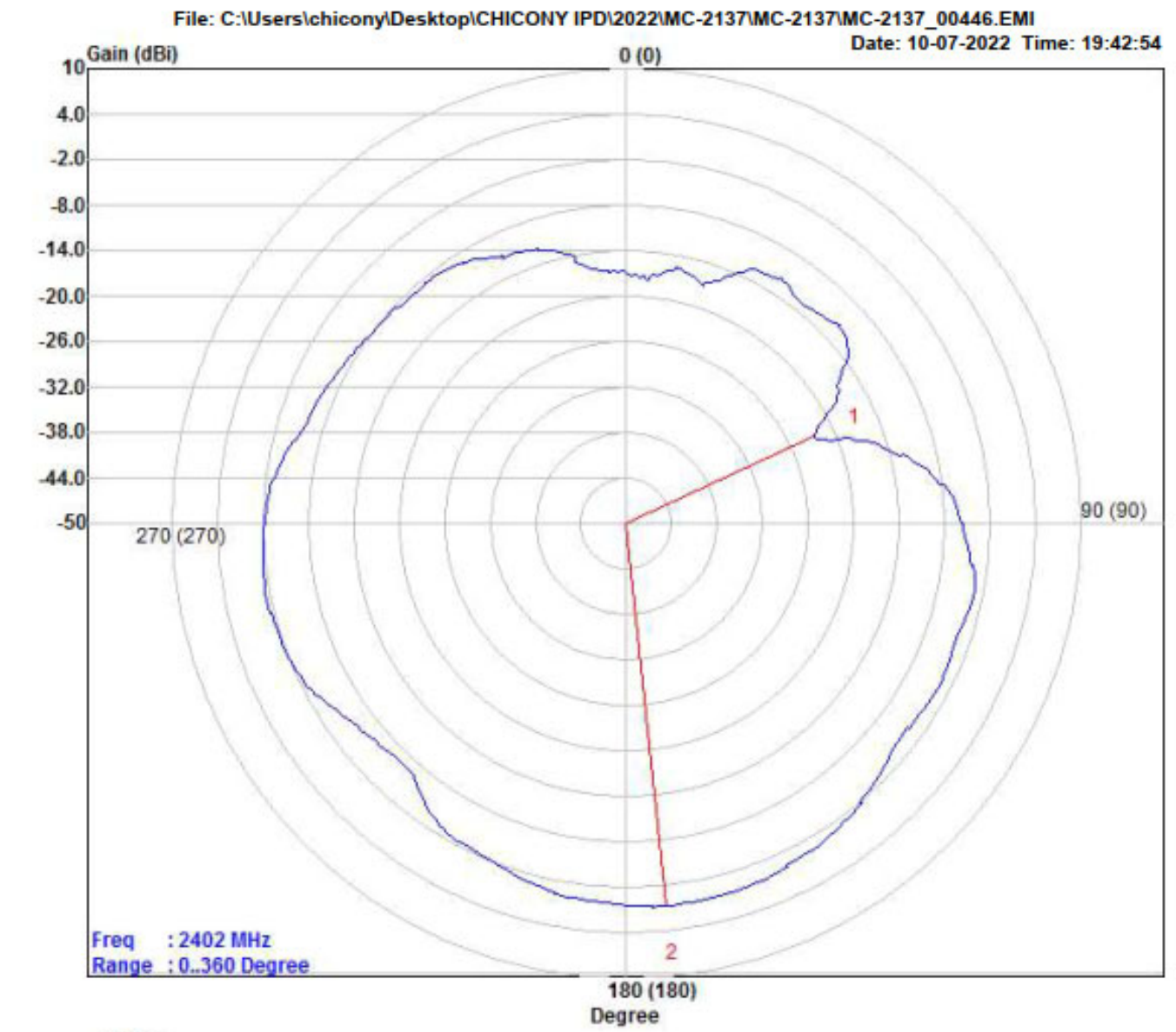
5. Standard testing condition：

	Unless otherwise specified	In case of doubt
Humidity	Ordinary Humidity(25~85%)	60~70% RH
Temperature	Ordinary Temperature(15~35℃)	20±2℃

6. Antenna Gain

Frequency/MHz	2402	2440	2480
Horizontal Peak Gain/dBi	-0.77	1.17	0.97
Vertical Peak Gain/dBi	-9.35	-7.56	-5.52

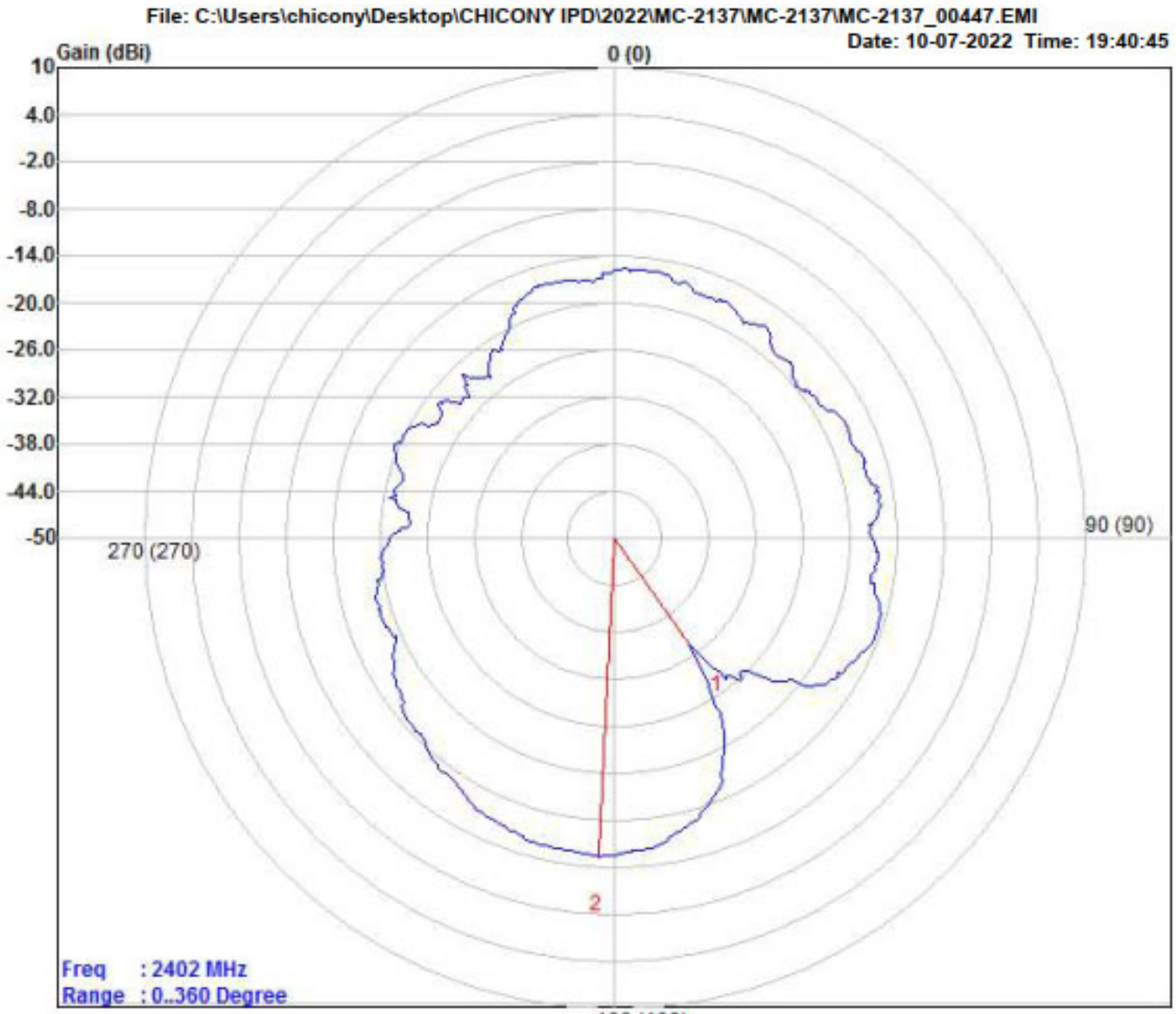
7. Test report：



Trace:

Site : RF Chamber
Condition : Horizontal
EUT : MC-2137
Mode : TX CH:2402MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

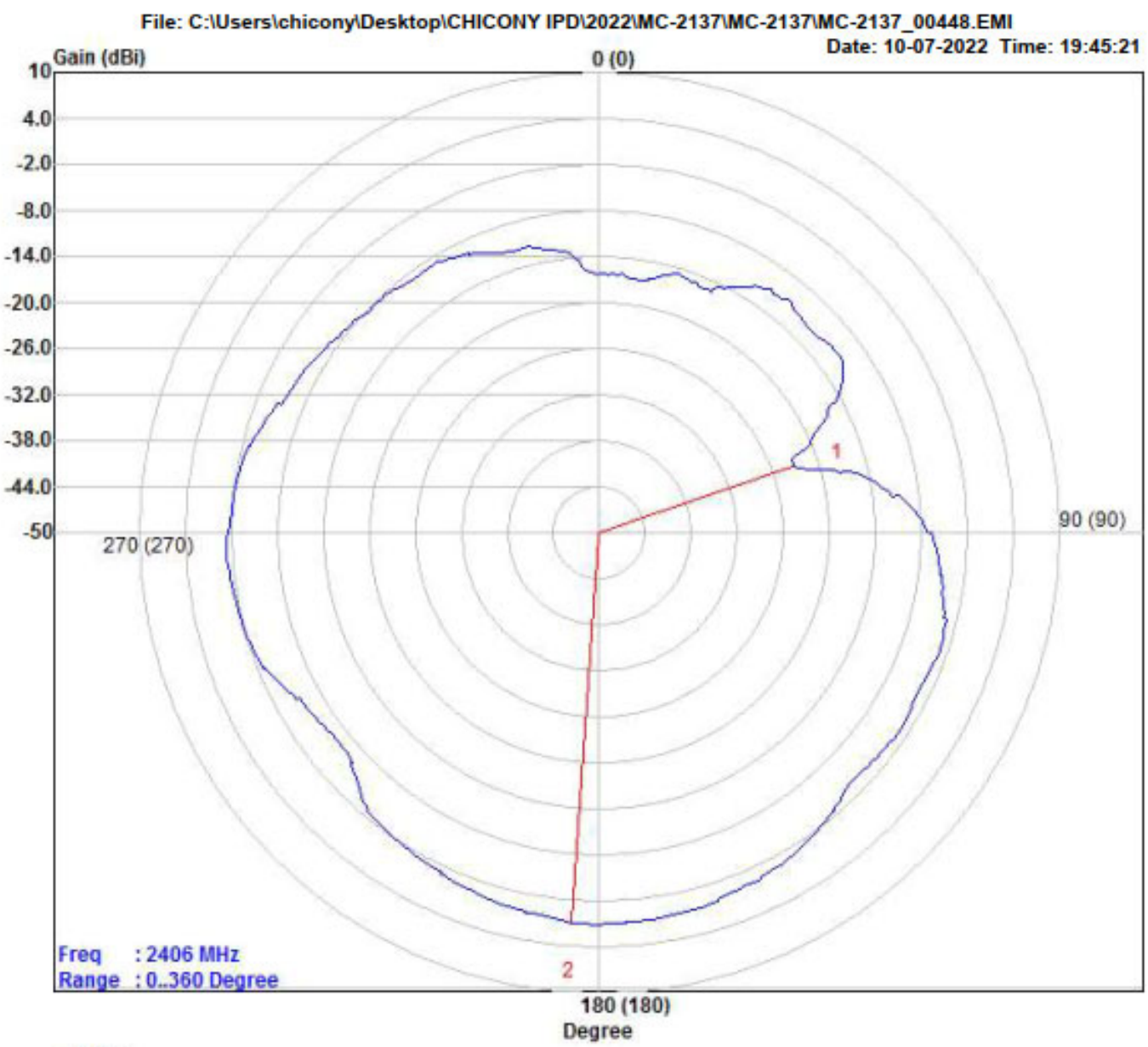
	Degree	Gain dBi/m	Remark	Note
1	64.976	-22.75	Minimum	AVG:-5.37
2	173.854	0.77	Maximum	



Trace:

Site : RF Chamber
Condition : Vertical
EUT : MC-2137
Mode : TX CH:2402MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

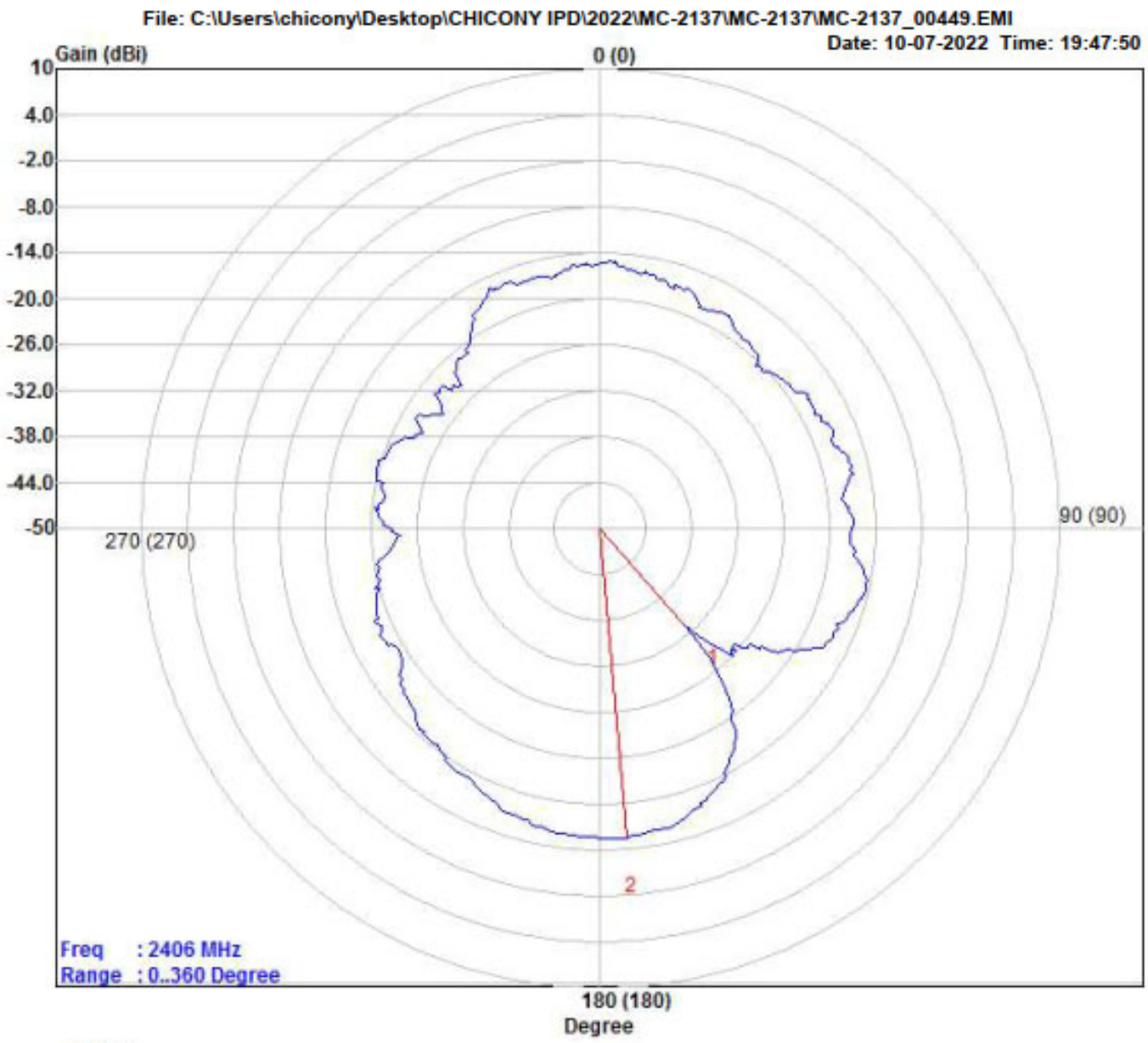
	Degree	Gain	Remark	Note
		dBi/m		
1	145.049	-33.47	Minimum	AVG:-16.56
2	182.621	-9.35	Maximum	



Trace:

Site : RF Chamber
Condition : Horizontal
EUT : MC-2137
Mode : TX CH:2406MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

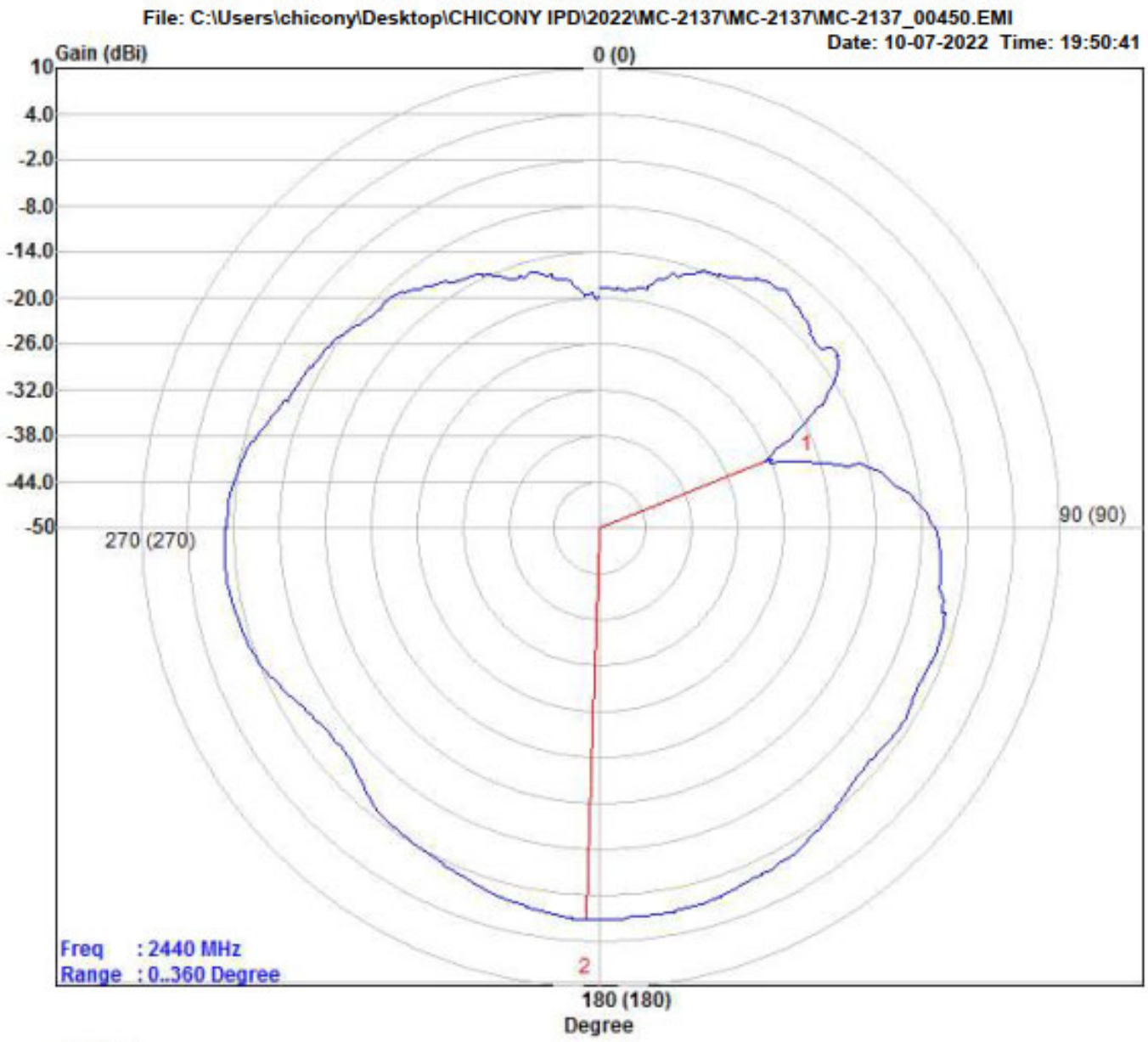
	Degree	Gain	Remark	Note
		dBi/m		
1	71.122	-23.36	Minimum	AVG:-5.08
2	184.390	1.05	Maximum	



Trace:

Site : RF Chamber
Condition : Vertical
EUT : MC-2137
Mode : TX CH:2406MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

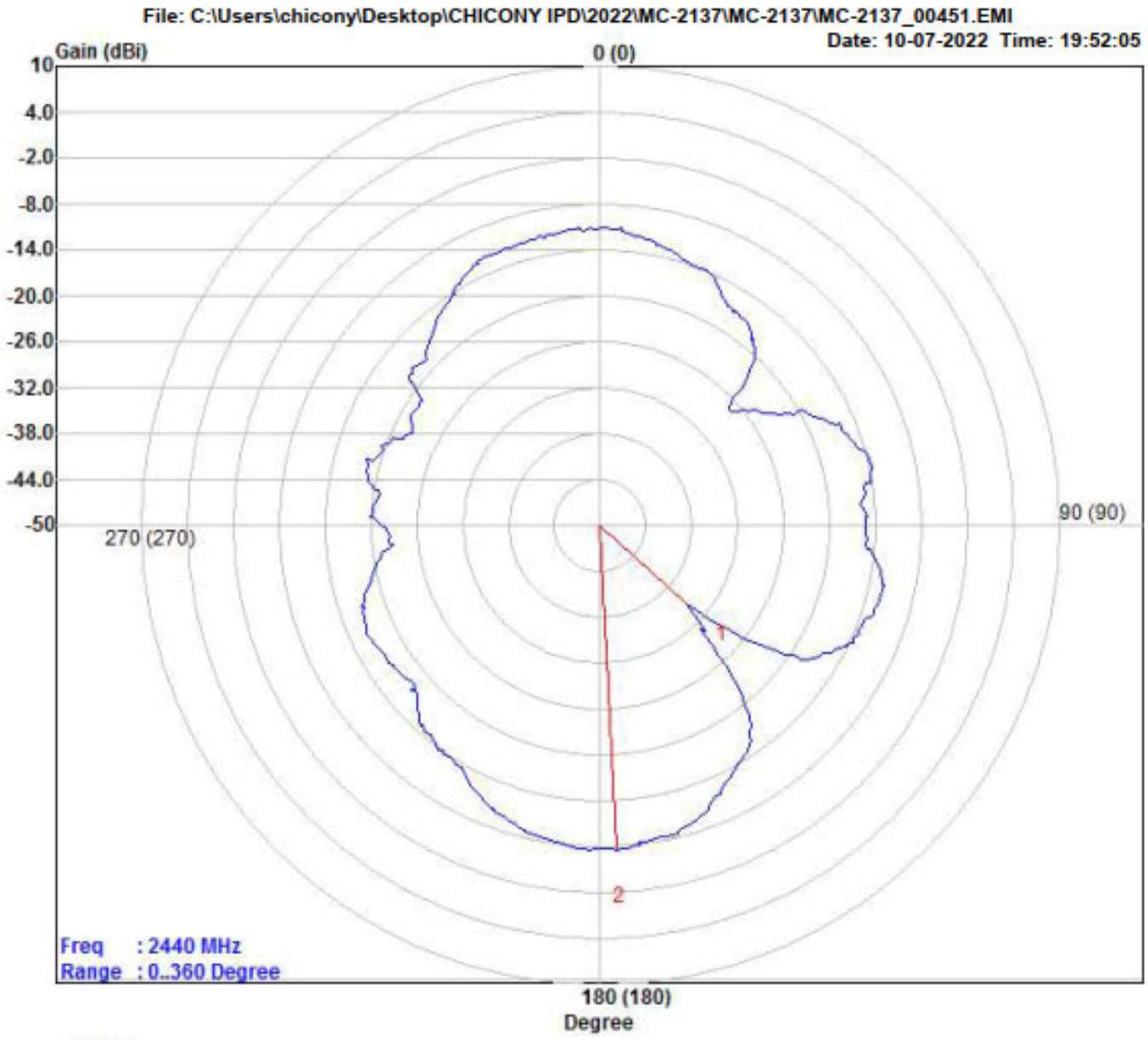
	Degree	Gain dBi/m	Remark	Note
1	138.596	-33.62	Minimum	AVG:-16.56
2	175.206	-9.37	Maximum	



Trace:

Site : RF Chamber
Condition : Horizontal
EUT : MC-2137
Mode : TX CH:2440MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

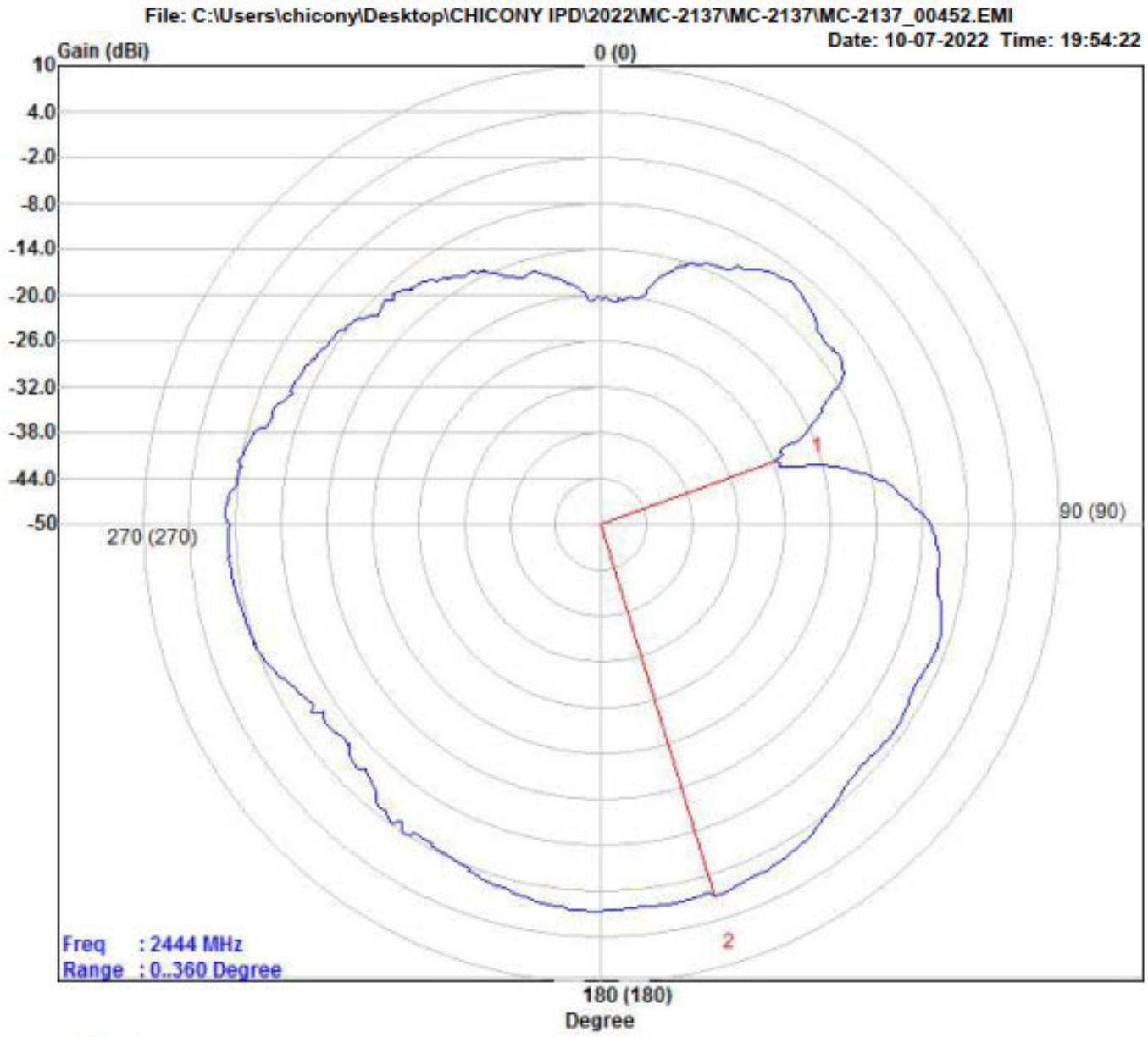
	Degree	Gain	Remark	Note
		dBi/m		
1	67.610	-26.87	Minimum	AVG:-5.16
2	181.756	1.17	Maximum	



Trace:

Site : RF Chamber
Condition : Vertical
EUT : MC-2137
Mode : TX CH:2440MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

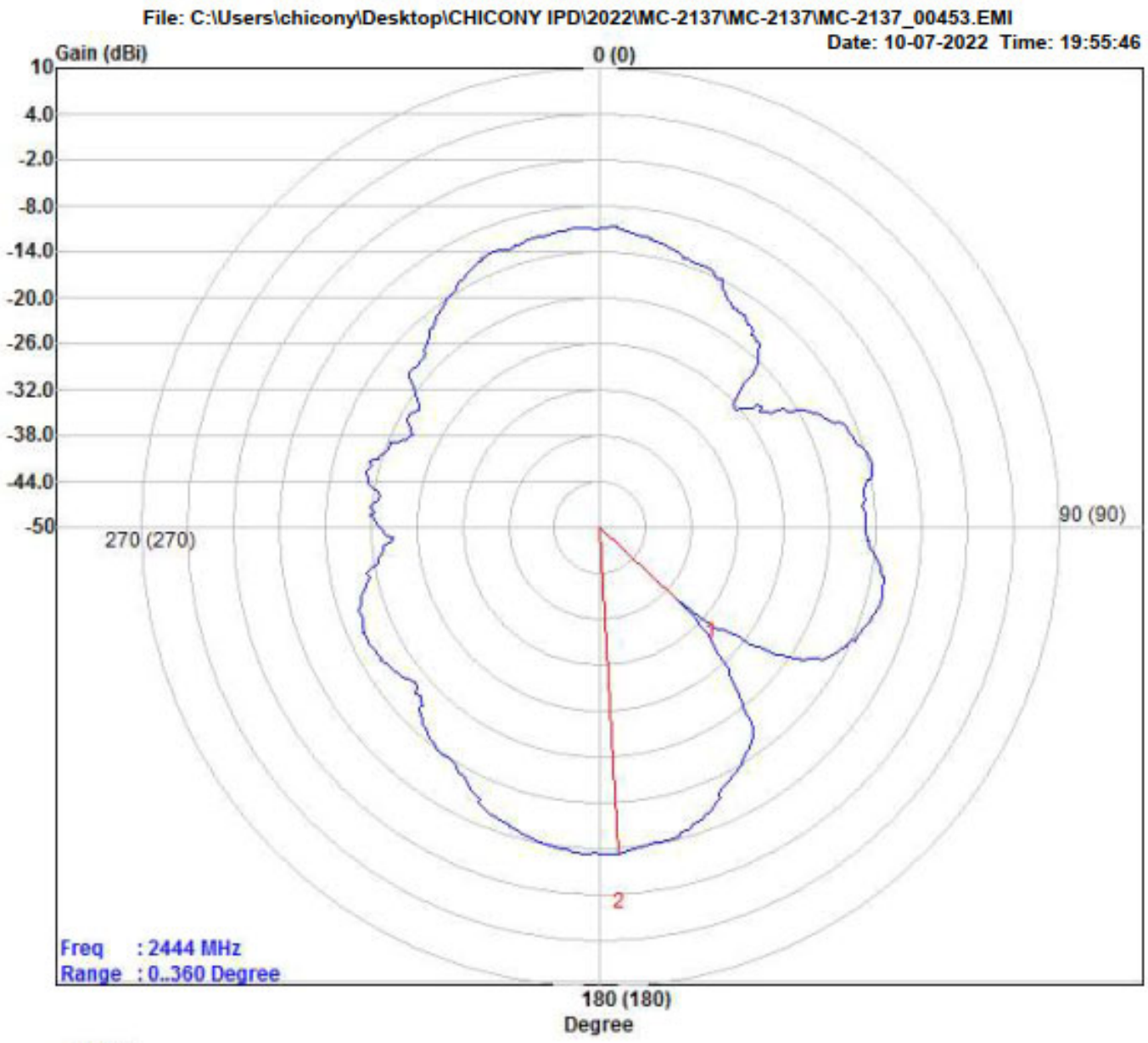
	Degree	Gain dBi/m	Remark	Note
1	132.263	-34.78	Minimum	AVG:-14.65
2	176.934	-7.56	Maximum	



Trace:

Site : RF Chamber
Condition : Horizontal
EUT : MC-2137
Mode : TX CH:2444MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

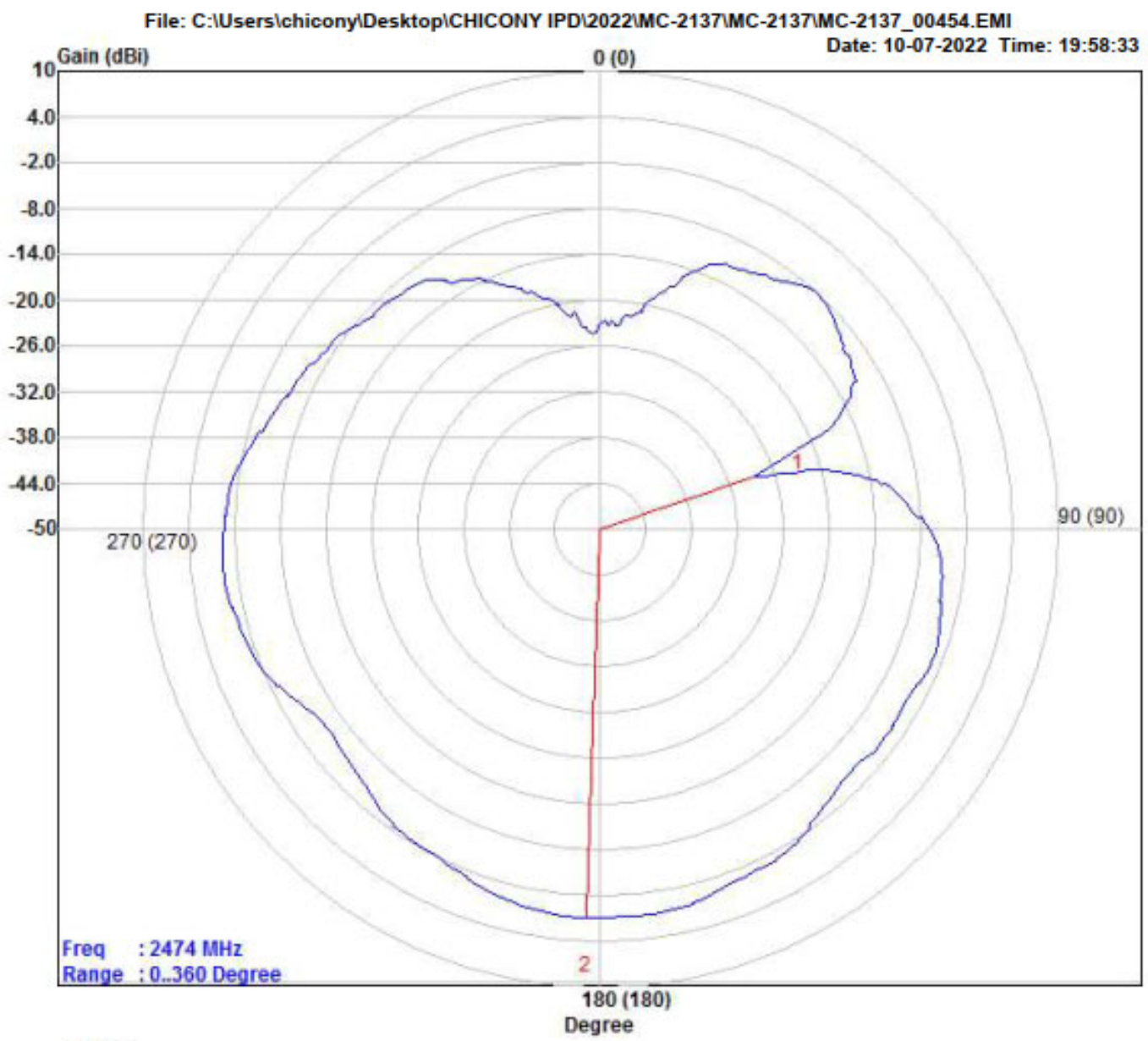
	Degree	Gain	Remark	Note
		dBi/m		
1	70.073	-25.92	Minimum	AVG:-5.36
2	162.920	0.95	Maximum	



Trace:

Site : RF Chamber
Condition : Vertical
EUT : MC-2137
Mode : TX CH:2444MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

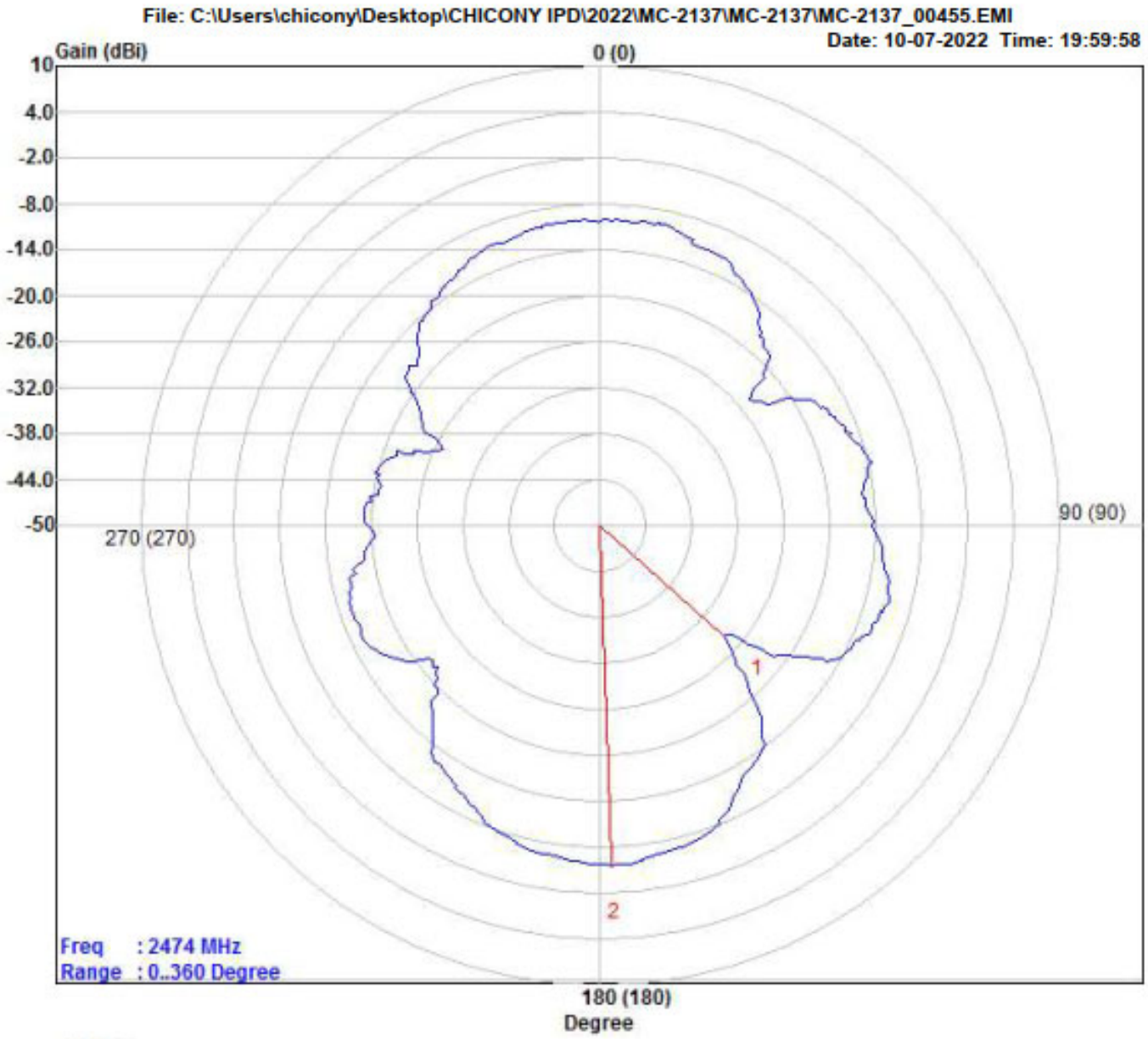
	Degree	Gain dBi/m	Remark	Note
1	132.816	-36.32	Minimum	AVG:-14.37
2	176.505	-7.20	Maximum	



Trace:

Site : RF Chamber
Condition : Horizontal
EUT : MC-2137
Mode : TX CH:2474MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

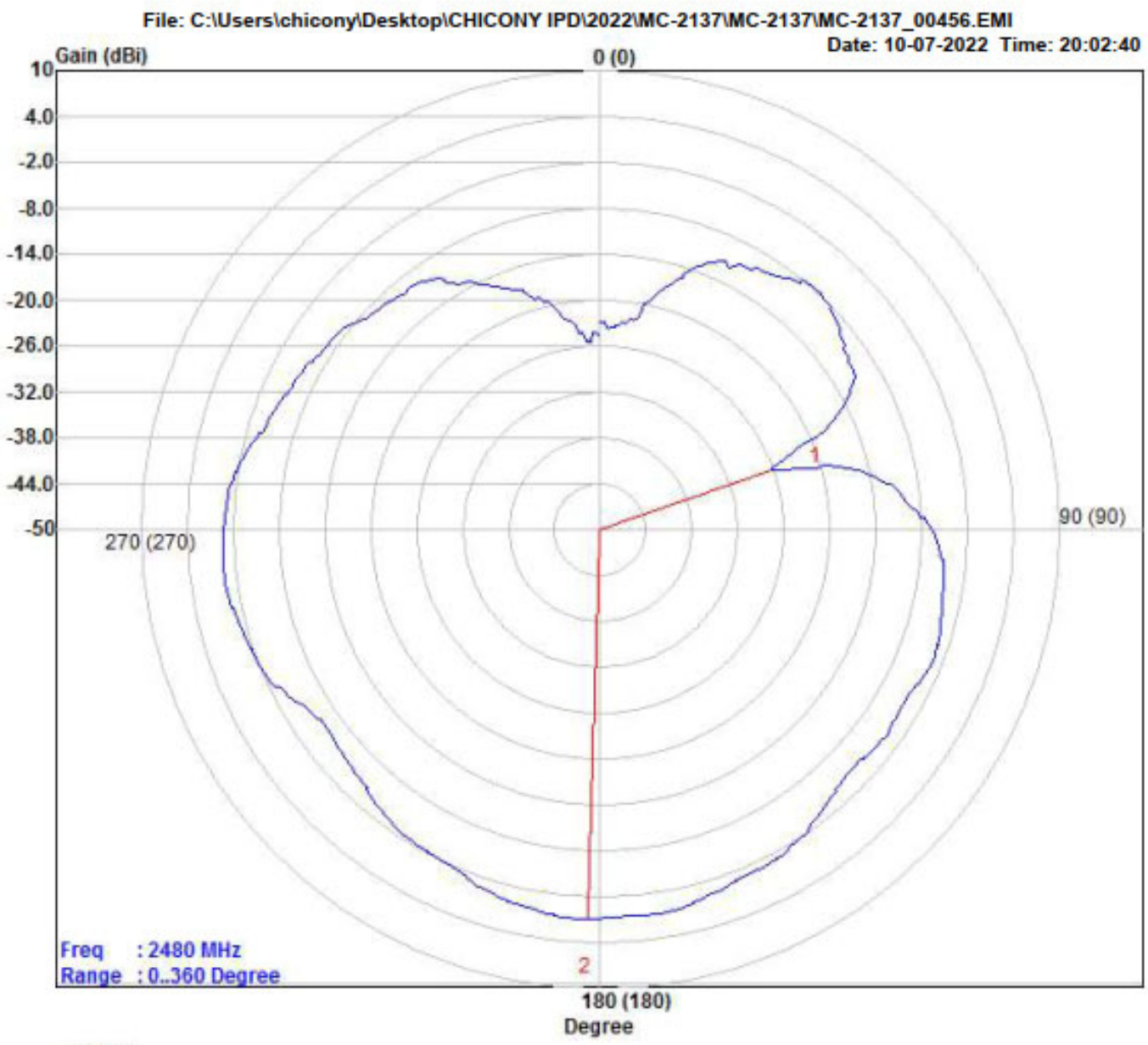
	Degree	Gain	Remark	Note
		dBi/m		
1	70.949	-28.77	Minimum	AVG:-5.21
2	182.190	0.99	Maximum	



Trace:

Site : RF Chamber
Condition : Vertical
EUT : MC-2137
Mode : TX CH:2474MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

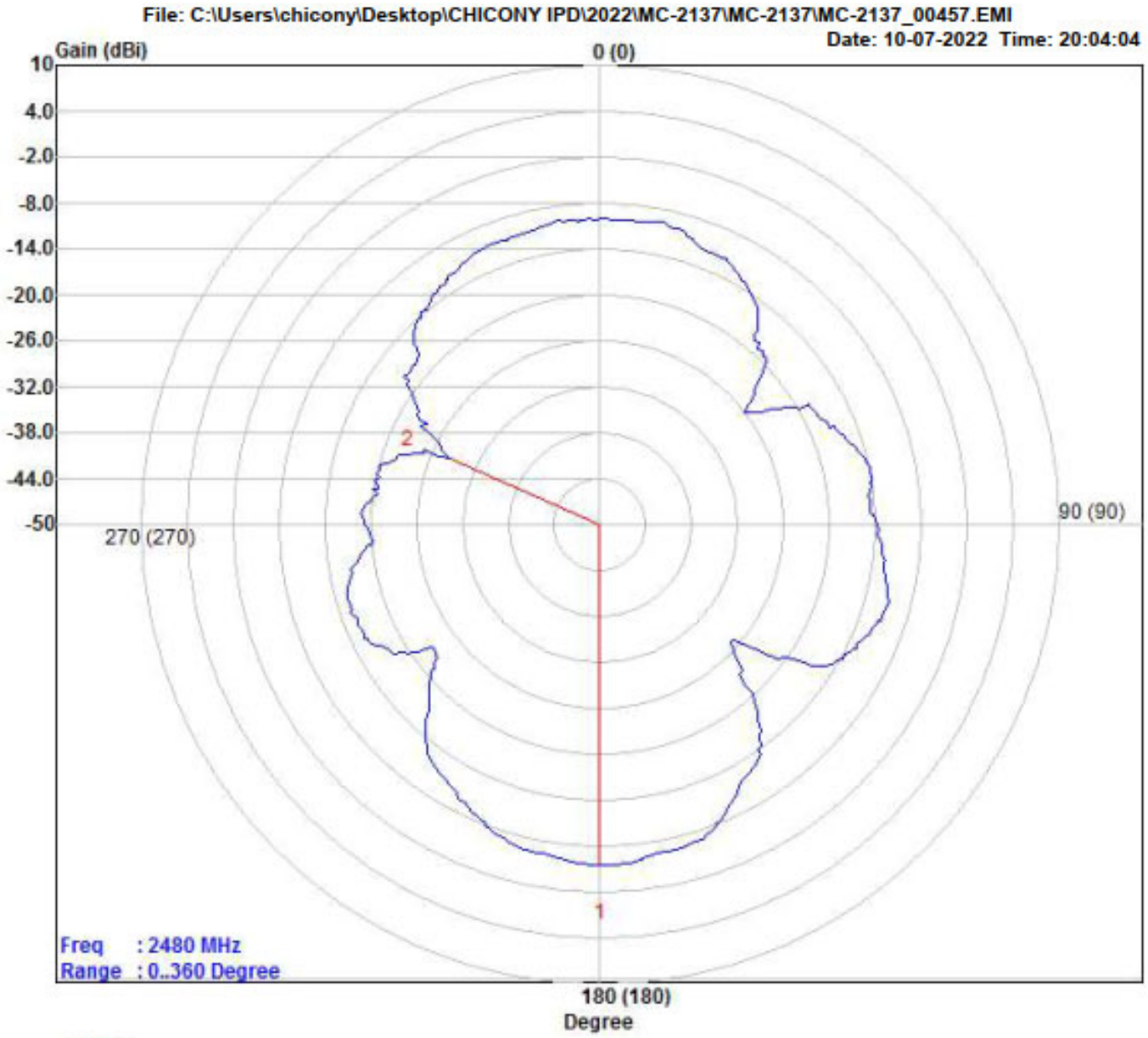
	Degree	Gain	Remark	Note
		dBi/m		
1	132.029	-28.36	Minimum	AVG:-13.22
2	177.800	-5.58	Maximum	



Trace:

Site : RF Chamber
Condition : Horizontal
EUT : MC-2137
Mode : TX CH:2480MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

	Degree	Gain	Remark	Note
		dBi/m		
1	70.949	-26.25	Minimum	AVG:-5.3
2	182.190	0.97	Maximum	



Trace:

Site : RF Chamber
Condition : Vertical
EUT : MC-2137
Mode : TX CH:2480MHz,
Note : DVT sample(change PCBA ant)
Test by : SMITH
: Antenna Pattern
SG O/P Level: 0dBm

	Degree	Gain	Remark	Note
		dBi/m		
1	180.438	-5.52	Maximum	AVG:-13.1
2	294.307	-28.48	Minimum	