

Measurement Results

Certificate No : IC-2024-057638
Measurement No : C-2024-067807

페이지(page) : 2 of 6

1. Antenna Factor & Gain

Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)	Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)	Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)
140.00	53.12	20.02	149.25	53.30	20.40	158.50	53.49	20.73
140.25	53.12	20.03	149.50	53.31	20.41	158.75	53.50	20.74
140.50	53.13	20.04	149.75	53.31	20.42	159.00	53.50	20.75
140.75	53.13	20.06	150.00	53.32	20.43	159.25	53.51	20.75
141.00	53.14	20.07	150.25	53.32	20.44	159.50	53.51	20.76
141.25	53.14	20.08	150.50	53.33	20.44	159.75	53.52	20.77
141.50	53.15	20.09	150.75	53.33	20.45	160.00	53.52	20.78
141.75	53.15	20.10	151.00	53.34	20.46	160.25	53.53	20.79
142.00	53.16	20.11	151.25	53.34	20.47	160.50	53.53	20.80
142.25	53.16	20.12	151.50	53.35	20.48	160.75	53.54	20.80
142.50	53.17	20.13	151.75	53.35	20.49	161.00	53.54	20.81
142.75	53.17	20.14	152.00	53.36	20.50	161.25	53.55	20.82
143.00	53.18	20.15	152.25	53.36	20.51	161.50	53.55	20.83
143.25	53.18	20.16	152.50	53.37	20.52	161.75	53.56	20.84
143.50	53.19	20.17	152.75	53.37	20.53	162.00	53.57	20.84
143.75	53.19	20.18	153.00	53.38	20.54	162.25	53.57	20.85
144.00	53.20	20.19	153.25	53.38	20.55	162.50	53.58	20.86
144.25	53.20	20.20	153.50	53.39	20.56	162.75	53.58	20.87
144.50	53.21	20.21	153.75	53.39	20.56	163.00	53.59	20.88
144.75	53.21	20.22	154.00	53.40	20.57	163.25	53.59	20.88
145.00	53.22	20.23	154.25	53.40	20.58	163.50	53.60	20.89
145.25	53.22	20.24	154.50	53.41	20.59	163.75	53.60	20.90
145.50	53.23	20.25	154.75	53.41	20.60	164.00	53.61	20.91
145.75	53.23	20.26	155.00	53.42	20.61	164.25	53.61	20.92
146.00	53.24	20.27	155.25	53.42	20.62	164.50	53.62	20.92
146.25	53.24	20.28	155.50	53.43	20.63	164.75	53.62	20.93
146.50	53.25	20.29	155.75	53.43	20.64	165.00	53.63	20.94
146.75	53.25	20.30	156.00	53.44	20.64	165.25	53.64	20.95
147.00	53.26	20.31	156.25	53.44	20.65	165.50	53.64	20.96
147.25	53.26	20.32	156.50	53.45	20.66	165.75	53.65	20.96
147.50	53.27	20.33	156.75	53.45	20.67	166.00	53.65	20.97
147.75	53.27	20.34	157.00	53.46	20.68	166.25	53.66	20.98
148.00	53.28	20.35	157.25	53.46	20.69	166.50	53.66	20.99
148.25	53.28	20.36	157.50	53.47	20.70	166.75	53.67	20.99
148.50	53.29	20.37	157.75	53.48	20.70	167.00	53.67	21.00
148.75	53.29	20.38	158.00	53.48	20.71	167.25	53.68	21.01
149.00	53.30	20.39	158.25	53.49	20.72	167.50	53.68	21.02

Measurement Results

Certificate No : IC-2024-057638
Measurement No : C-2024-067807

페이지(page) : 3 of 6

1. Antenna Factor & Gain (cont.)

Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)	Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)	Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)
167.75	53.69	21.02	177.00	53.90	21.28	186.25	54.11	21.51
168.00	53.70	21.03	177.25	53.90	21.29	186.50	54.12	21.52
168.25	53.70	21.04	177.50	53.91	21.30	186.75	54.12	21.52
168.50	53.71	21.05	177.75	53.91	21.30	187.00	54.13	21.53
168.75	53.71	21.05	178.00	53.92	21.31	187.25	54.13	21.53
169.00	53.72	21.06	178.25	53.92	21.32	187.50	54.14	21.54
169.25	53.72	21.07	178.50	53.93	21.32	187.75	54.15	21.55
169.50	53.73	21.07	178.75	53.94	21.33	188.00	54.15	21.55
169.75	53.73	21.08	179.00	53.94	21.33	188.25	54.16	21.56
170.00	53.74	21.09	179.25	53.95	21.34	188.50	54.16	21.56
170.25	53.74	21.10	179.50	53.95	21.35	188.75	54.17	21.57
170.50	53.75	21.10	179.75	53.96	21.35	189.00	54.17	21.57
170.75	53.76	21.11	180.00	53.96	21.36	189.25	54.18	21.58
171.00	53.76	21.12	180.25	53.97	21.37	189.50	54.19	21.59
171.25	53.77	21.13	180.50	53.98	21.37	189.75	54.19	21.59
171.50	53.77	21.13	180.75	53.98	21.38	190.00	54.20	21.60
171.75	53.78	21.14	181.00	53.99	21.39	190.25	54.20	21.60
172.00	53.78	21.15	181.25	53.99	21.39	190.50	54.21	21.61
172.25	53.79	21.15	181.50	54.00	21.40	190.75	54.22	21.61
172.50	53.79	21.16	181.75	54.01	21.40	191.00	54.22	21.62
172.75	53.80	21.17	182.00	54.01	21.41	191.25	54.23	21.62
173.00	53.81	21.17	182.25	54.02	21.42	191.50	54.23	21.63
173.25	53.81	21.18	182.50	54.02	21.42	191.75	54.24	21.63
173.50	53.82	21.19	182.75	54.03	21.43	192.00	54.25	21.64
173.75	53.82	21.20	183.00	54.03	21.43	192.25	54.25	21.65
174.00	53.83	21.20	183.25	54.04	21.44	192.50	54.26	21.65
174.25	53.83	21.21	183.50	54.05	21.45	192.75	54.26	21.66
174.50	53.84	21.22	183.75	54.05	21.45	193.00	54.27	21.66
174.75	53.85	21.22	184.00	54.06	21.46	193.25	54.28	21.67
175.00	53.85	21.23	184.25	54.06	21.46	193.50	54.28	21.67
175.25	53.86	21.24	184.50	54.07	21.47	193.75	54.29	21.68
175.50	53.86	21.24	184.75	54.07	21.48	194.00	54.29	21.68
175.75	53.87	21.25	185.00	54.08	21.48	194.25	54.30	21.69
176.00	53.87	21.26	185.25	54.09	21.49	194.50	54.31	21.69
176.25	53.88	21.26	185.50	54.09	21.49	194.75	54.31	21.70
176.50	53.89	21.27	185.75	54.10	21.50	195.00	54.32	21.70
176.75	53.89	21.28	186.00	54.10	21.51	195.25	54.32	21.71

Measurement Results

Certificate No : IC-2024-057638
Measurement No : C-2024-067807

페이지(page) : 4 of 6

1. Antenna Factor & Gain (cont.)

Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)	Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)	Frequency (GHz)	AF [dB(1/m)]	Gain (dBi)
195.50	54.33	21.71	203.75	54.53	21.87	212.00	54.73	22.01
195.75	54.34	21.72	204.00	54.54	21.88	212.25	54.74	22.02
196.00	54.34	21.72	204.25	54.54	21.88	212.50	54.75	22.02
196.25	54.35	21.73	204.50	54.55	21.89	212.75	54.75	22.03
196.50	54.35	21.73	204.75	54.55	21.89	213.00	54.76	22.03
196.75	54.36	21.74	205.00	54.56	21.89	213.25	54.76	22.03
197.00	54.37	21.74	205.25	54.57	21.90	213.50	54.77	22.04
197.25	54.37	21.75	205.50	54.57	21.90	213.75	54.78	22.04
197.50	54.38	21.75	205.75	54.58	21.91	214.00	54.78	22.05
197.75	54.38	21.76	206.00	54.58	21.91	214.25	54.79	22.05
198.00	54.39	21.76	206.25	54.59	21.92	214.50	54.80	22.05
198.25	54.40	21.77	206.50	54.60	21.92	214.75	54.80	22.06
198.50	54.40	21.77	206.75	54.60	21.93	215.00	54.81	22.06
198.75	54.41	21.78	207.00	54.61	21.93	215.25	54.81	22.06
199.00	54.41	21.78	207.25	54.62	21.93	215.50	54.82	22.07
199.25	54.42	21.79	207.50	54.62	21.94	215.75	54.83	22.07
199.50	54.43	21.79	207.75	54.63	21.94	216.00	54.83	22.08
199.75	54.43	21.80	208.00	54.63	21.95	216.25	54.84	22.08
200.00	54.44	21.80	208.25	54.64	21.95	216.50	54.84	22.08
200.25	54.44	21.81	208.50	54.65	21.96	216.75	54.85	22.09
200.50	54.45	21.81	208.75	54.65	21.96	217.00	54.86	22.09
200.75	54.46	21.82	209.00	54.66	21.96	217.25	54.86	22.10
201.00	54.46	21.82	209.25	54.66	21.97	217.50	54.87	22.10
201.25	54.47	21.83	209.50	54.67	21.97	217.75	54.88	22.10
201.50	54.47	21.83	209.75	54.68	21.98	218.00	54.88	22.11
201.75	54.48	21.84	210.00	54.68	21.98	218.25	54.89	22.11
202.00	54.49	21.84	210.25	54.69	21.99	218.50	54.89	22.11
202.25	54.49	21.84	210.50	54.70	21.99	218.75	54.90	22.12
202.50	54.50	21.85	210.75	54.70	21.99	219.00	54.91	22.12
202.75	54.51	21.85	211.00	54.71	22.00	219.25	54.91	22.12
203.00	54.51	21.86	211.25	54.71	22.00	219.50	54.92	22.13
203.25	54.52	21.86	211.50	54.72	22.01	219.75	54.93	22.13
203.50	54.52	21.87	211.75	54.73	22.01	220.00	54.93	22.14

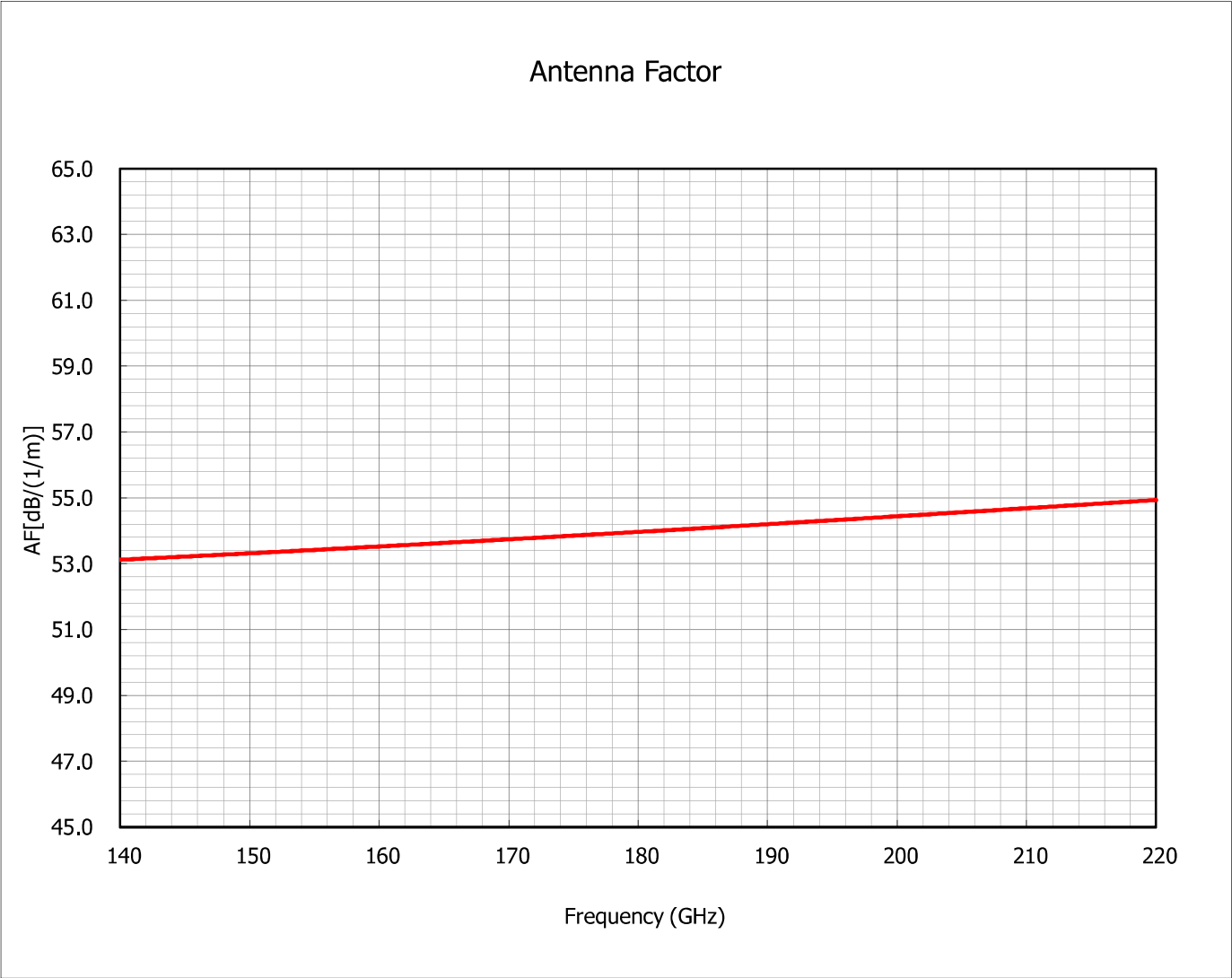
※ The measurement uncertainty of this result is 1.3 dB (Confidence level about 95 %, $k = 2$)

Measurement Results

Certificate No : IC-2024-057638
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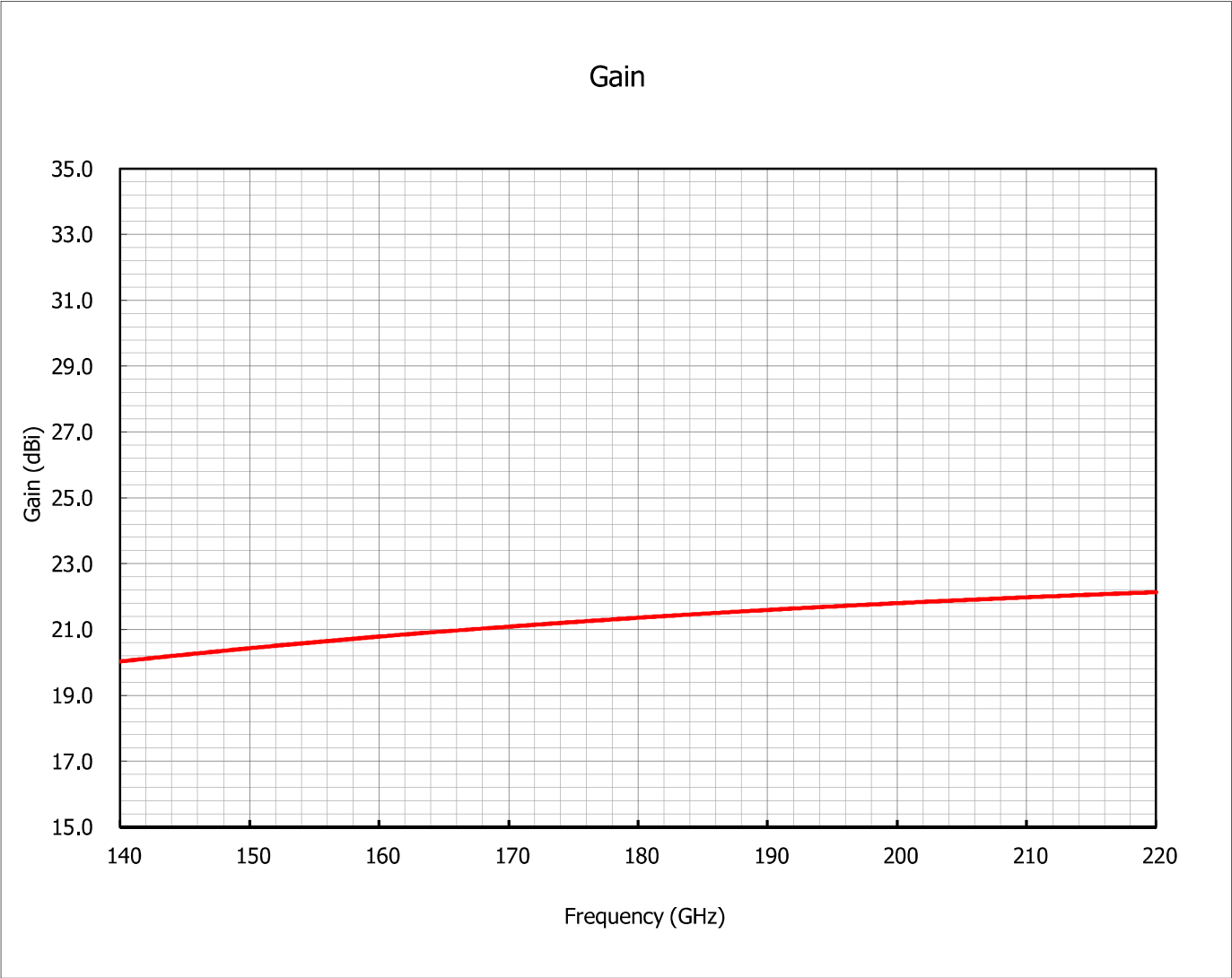
페이지(page) : 5 of 6

2. Antenna Factor Curve



Measurement Results

3. Gain Curve



* The above results are simulation results based on the measurement results in the report below.
Report No : C-2024-067871

END.



Appendix C. Test Lab Accreditation Scope

FEDERAL COMMUNICATIONS COMMISSION

**Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046**

January 25, 2022

National Communications Commission
No. 143, Yan-Ping S. Rd,
Taipei, 100
Taiwan

Attention: Jhih-Chang Shieh

Re: Accreditation of Sporton International Inc. Wensan Laboratory
Designation Number: TW3786
Test Firm Registration #: 654629

Dear Sir or Madam:

We have been notified by National Communications Commission that Sporton International Inc. Wensan Laboratory has been accredited as a testing laboratory.

At this time Sporton International Inc. Wensan Laboratory is hereby recognized to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification of the Commission's Rules.

This recognition will expire upon expiration of the accreditation or notification of withdrawal of recognition.

Any questions about this recognition should be submitted as an inquiry to the FCC Knowledge Database at www.fcc.gov/kdb.

Sincerely,

Jihad Hermes
Electronics Engineer

Office of Engineering and Technology

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OET Accredited Test firm scope List
Test Firm: Sporton International Inc. Wensan Laboratory

Scope	FCC Rule Parts	Maximum Assessed Frequency in Mhz	Status	Expiration Date	Recognition Date
Intentional Radiators	FCC Part 15 Subpart C	280000.00	Approved	11-10-2026	01-25-2022
U-NII without DFS	FCC Part 15, Subpart E	40000.00	Approved	11-10-2026	01-25-2022
Intentional Radiators	FCC Part 15, Subpart E	40000.00	Approved	11-10-2026	01-25-2022
U-NII with DFS	FCC Part 15, Subpart E	40000.00	Approved	11-10-2026	01-25-2022
Intentional Radiators	FCC Part 15, Subpart F	280000.00	Approved	11-10-2026	01-25-2022
UWB Intentional Radiators	Part 22 (cellular), Part 24, Part 25 (below 3 GHz), Part 27	40000.00	Approved	11-10-2026	01-25-2022
Commercial Mobile Services	Part 96	40000.00	Approved	11-10-2026	01-25-2022
Citizens Broadband Radio Services	Part 25 (above 3 GHz), Part 30, Part 74, Part 90 (above 3 GHz), Part 95 (above 3 GHz), Part 97 (above 3 GHz) Part 101	280000.00	Approved	11-10-2026	01-25-2022
Microwave and Millimeter Bands Radio Services	Part 20	6000.00	Approved	11-10-2026	01-25-2022
RF Exposure	Part 20	40000.00	Approved	11-10-2026	01-25-2022
Hearing Aid Compatibility	Part 20, Part 90.219	40000.00	Approved	11-10-2026	09-27-2023
Signal Boosters					

Please use the Submit Inquiry link at www.fcc.gov/labhelp to send any comments or suggestions for this site

Federal Communications Commission
45 L Street NE
Washington, DC 20554
[More FCC Contact Information...](#)

Phone: 888-CALL-FCC (225-5322)
TTY: 888-TELL-FCC (835-5322)
Fax: 202-418-0232
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