

CUSTOMER : RAYENCE

Approval No.	
Rev.	1.0

Approval Sheet

Product Name	1417WCE (703mm)
Model	RAT010A
Applied Model	X-Ray Detector
Specifics	1. First Edition (3T3R WIFI ANTENNA)
Mass production place	RFTech / Yongin-Si, Gyeonggi-Do

	APPROVAL				
Supplier					
Customer	Detector Development	QC	Manufacturing	Purchasing	Approval

Customer	Rayence Co., Ltd.	CEO	JaeJeong Seo
Address	14, Samsung 1-ro 1-gil, Hwaseong-si, Gyeonggi-do, Korea TEL:031)8015-6427 FAX:031)8015-6429		
Supplier	RFTech Co., Ltd.	CEO	JinHyung Lee
Address	60, Jugyang-Daero 1763beon-Gil, Wonsam-Myeon, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, Korea TEL:031)322-1114 FAX:031)322-5005		

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1 Revision History

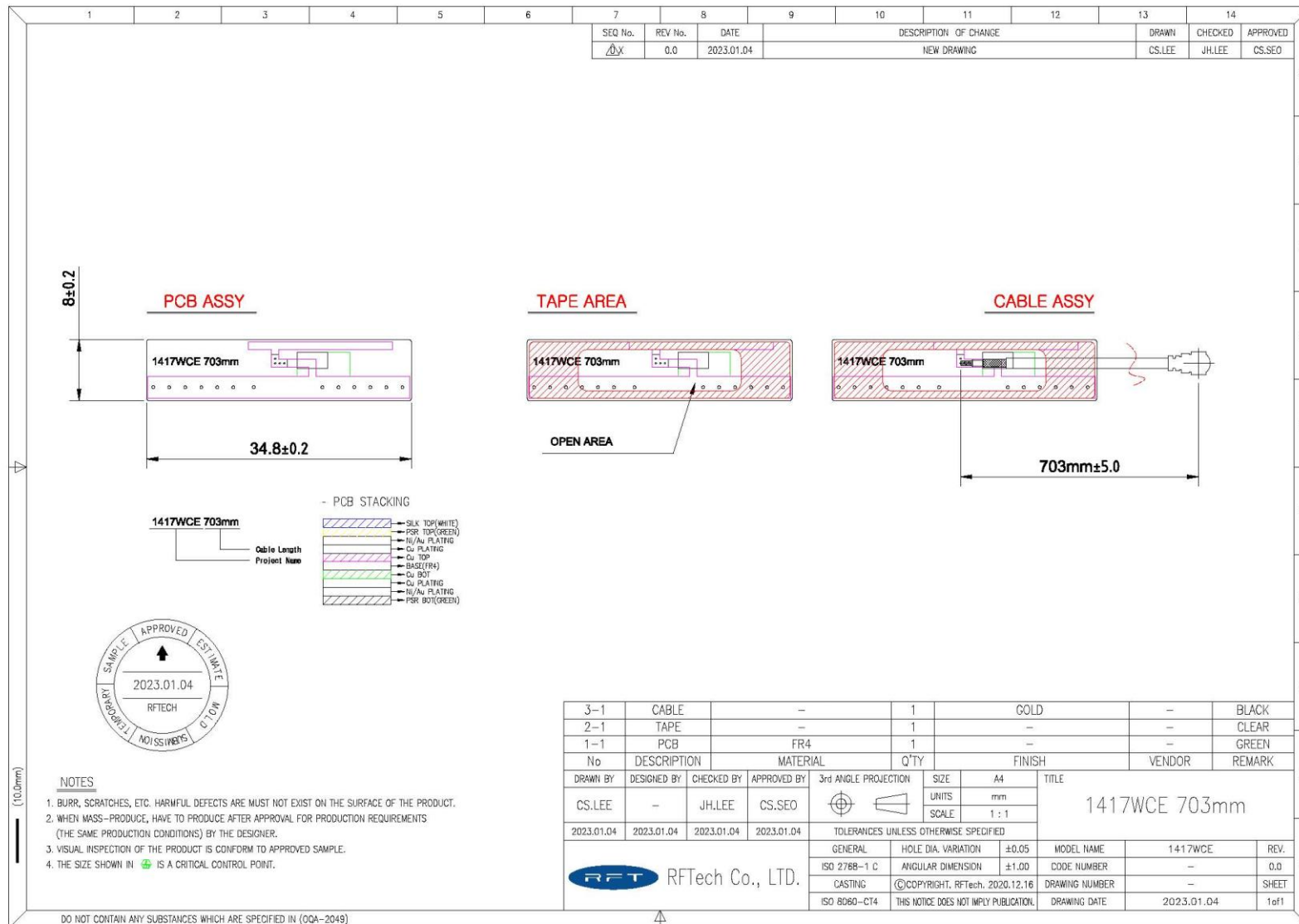
Revision No	Author	Remark	Date
Ver 1.0	Yu Jun Lee	1. First Edition (1417WCE 703mm WIFI ANTENNA)	2023. 01. 30

2 Part List

NO.	Item CODE	Item	Part Name	Material / SIZE	Finish	QTY	Remark
1		ANTENNA ASS'Y	ANT PCB	FR-4 0.8T / 34.8 X 7.6	Cu / Au PLATING	1	
			CABLE ASS'Y	CONNECTOR PLUG TYPE : U.FL / Ø1.3 x 703mm	Au PLATING	1	
			ADHESIVE	WATER PROOF(IPX 8) / 34.2 X 7.0	-	1	

3 Drawing

3.1 ANTENNA ASS'Y



4 ANTENNA Electrical Specification

4.1 Frequency

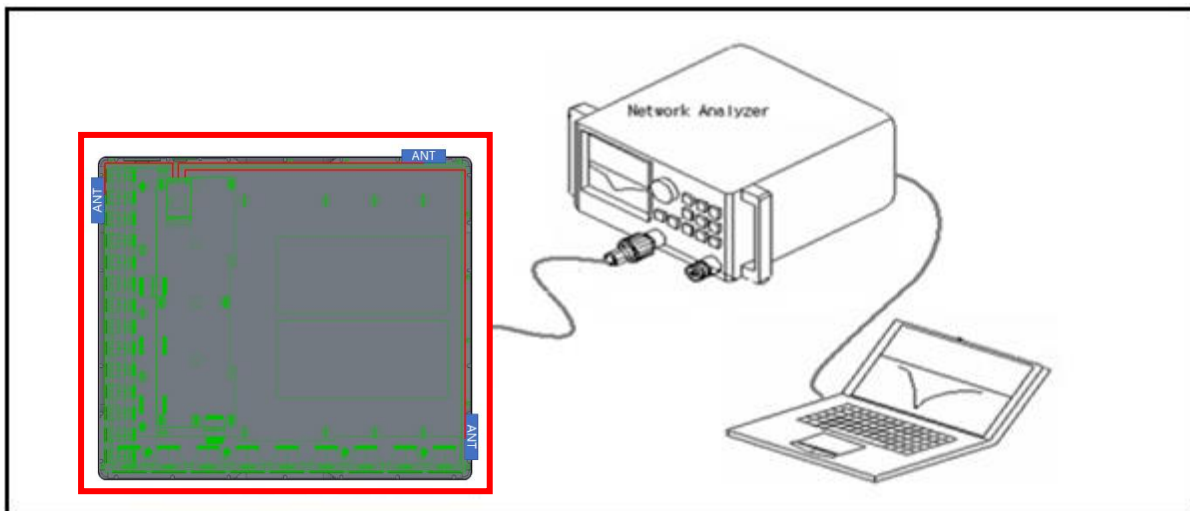
4.1.1 WIFI ANTENNA

Band	Frequency [MHz]
WIFI 2.4GHz	2400 ~ 2485
WIFI 5.0GHz	5180 ~ 5805

4.2 Test Procedure

4.2.1 VSWR and SMITH CHART

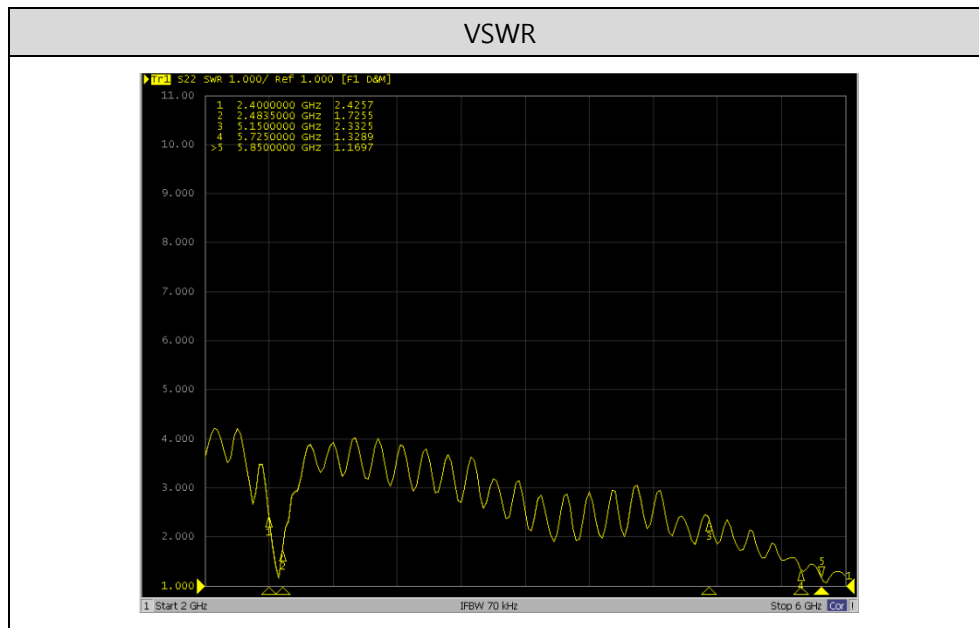
- Turn On Network Analyzer.
- Set the start frequency and end frequency for optimal calibration.
- Perform one port calibration in the order of open, short, and load, and check for abnormalities.
- Since the characteristics of the antenna are greatly affected by surrounding metal objects, avoid surrounding metal objects. Keep a certain distance from Network Analyzer.
- Test Condition



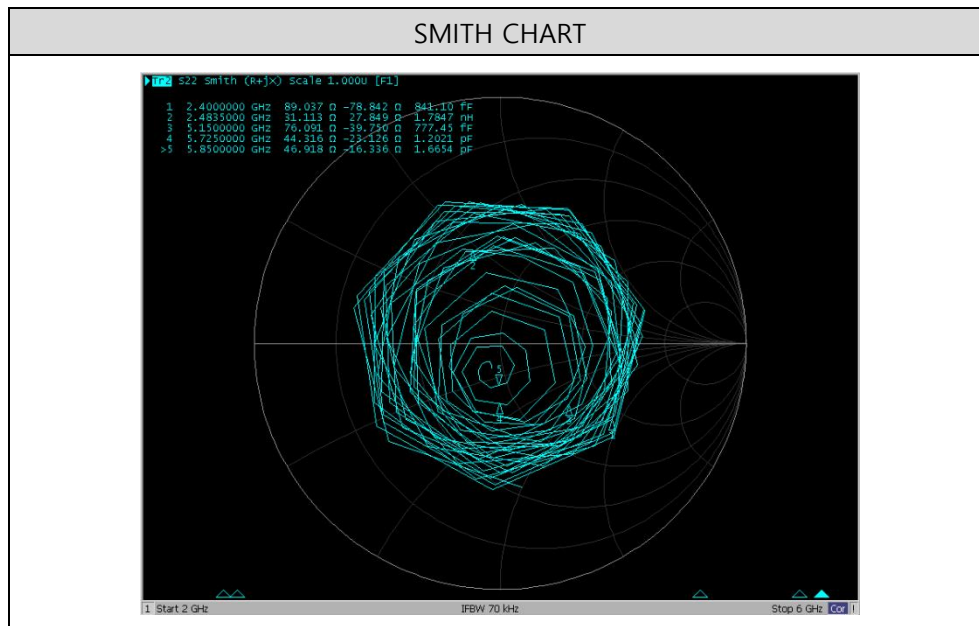
4.3 Electrical Specification Data

4.3.1 VSWR and SMITH CHART

4.3.1.1 VSWR



4.3.1.2 SMITH CHART



4.4 GAIN DATA

4.4.1 2D GAIN

Frequency[MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13
2400	2421	2442	2463	2484	5180	5240	5260	5320	5500	5620	5745	5805	
Efficiency[dB]	-11.62	-10.17	-8.34	-5.70	-5.33	-8.70	-8.73	-10.16	-7.13	-5.98	-4.74	-5.03	-5.42
Efficiency[%]	6.89	9.61	14.67	26.89	29.29	13.49	13.40	9.63	19.37	25.26	33.60	31.41	28.72
Peak Gain[dBi]	-5.13	-3.05	-1.35	0.28	0.56	-2.70	-3.03	-4.31	-1.15	-0.10	0.80	3.00	1.75

5 Reliability Test

5.1 Reliability Test Specifications(Condition, Method, Criteria)

Test Contents		Test Condition	Samples	Test Tool	Criterion
Electrical Specification	Initial Specification	at room temperature Initial Specification	20	- Network Analyzer	- should satisfy the electrical characteristics.
climate environment	high temperature / high humidity	60°C/95%, 50Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Heat Shocks	85°C ~ -40°C each 45Min → 1Cycle, Total 27Cycle	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Low Storage Temperature	-40°C, 52Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	High Storage Temperature	85°C, 52Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Salt Spray	35°C, 5% NaCl, 48Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.

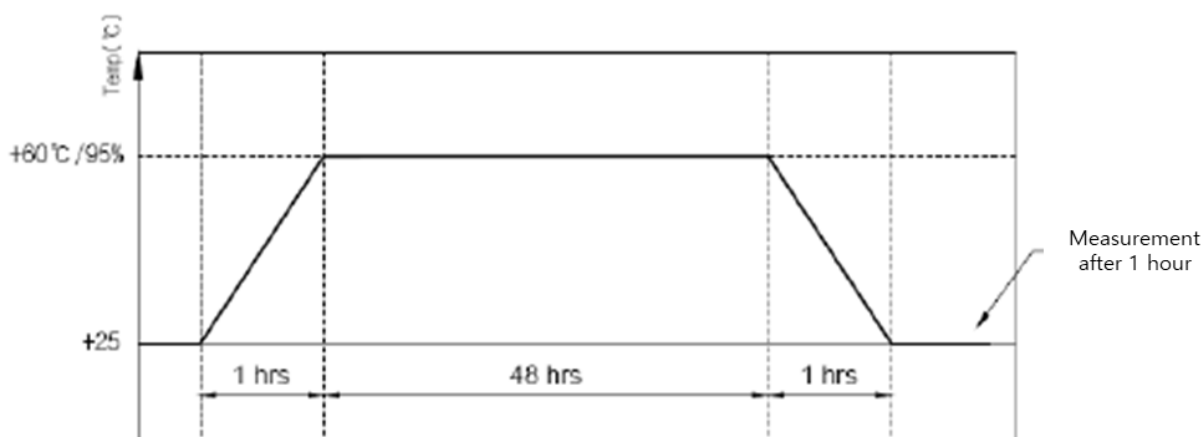
5.2 Reliability Test Result

climate environment	samples	result
high temperature / high humidity (60°C/95%, 50Hr)	5	PASS
Heat Shocks(85°C ~ -40°C each 45Min → 1Cycle, Total 27Cycle)	5	PASS
Low Storage Temperature (-40°C, 52Hr)	5	PASS
High Storage Temperature (85°C, 52Hr)	5	PASS
Salt Spray (35°C, 5% NaCl, 48Hr)	5	PASS

5.3 Reliability Test Procedure

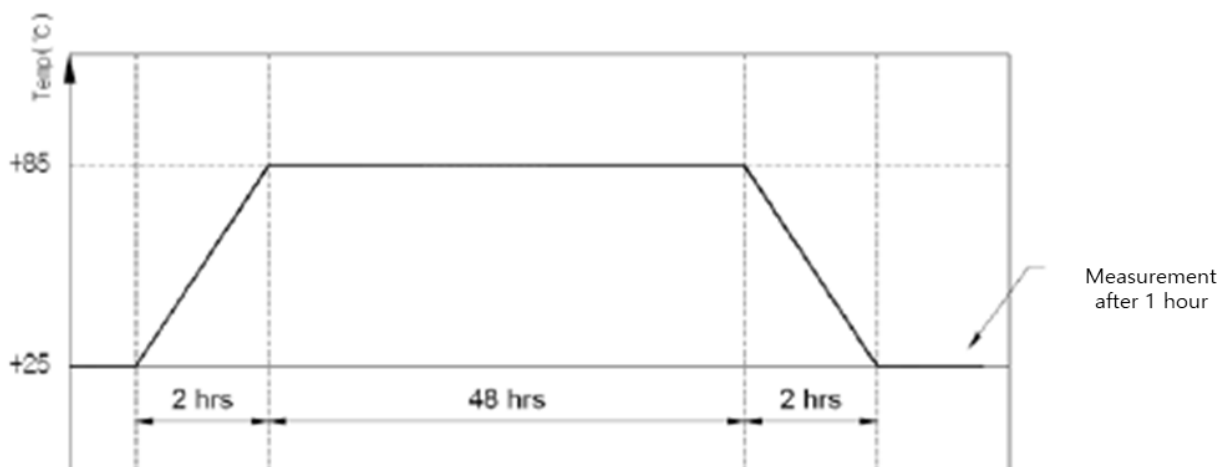
5.3.1 High Temperature and Humidity

- (1) Put the sample to chamber
- (2) After increasing the temperature/humidity to $+60^{\circ}\text{C}/95\%$, keep it for 48 hours (reaching time about 1 hour).
- (3) After lowering the temperature/humidity to $+25^{\circ}\text{C}/0\%$, keep it for 1 hour (reaching time about 1 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



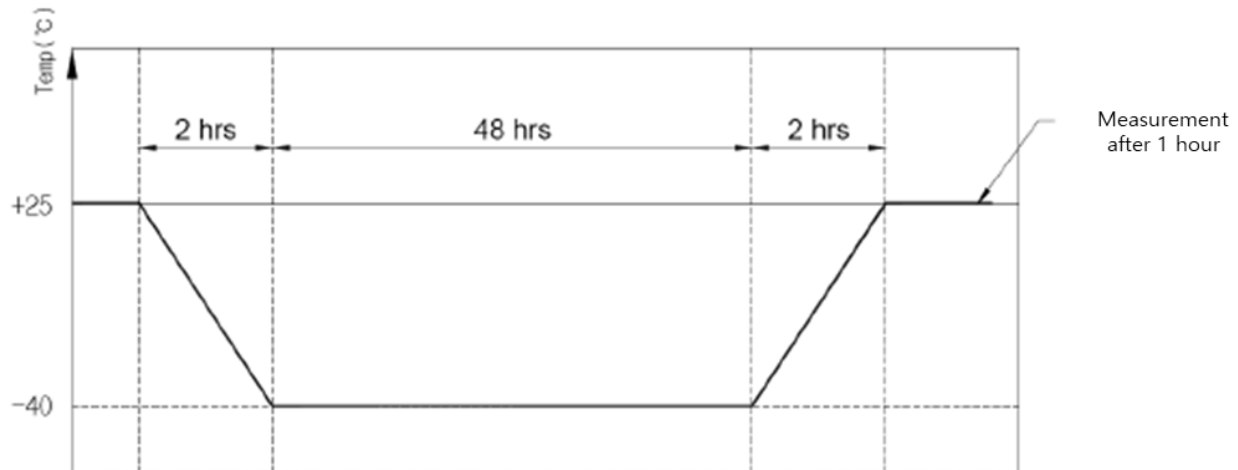
5.3.2 High Storage Temperature

- (1) Put the sample to chamber
- (2) After increasing the temperature to $+85^{\circ}\text{C}$, keep it for 48 hours (reaching time about 2 hour).
- (3) After lowering the temperature to $+25^{\circ}\text{C}$, keep it for 1 hour (reaching time about 2 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



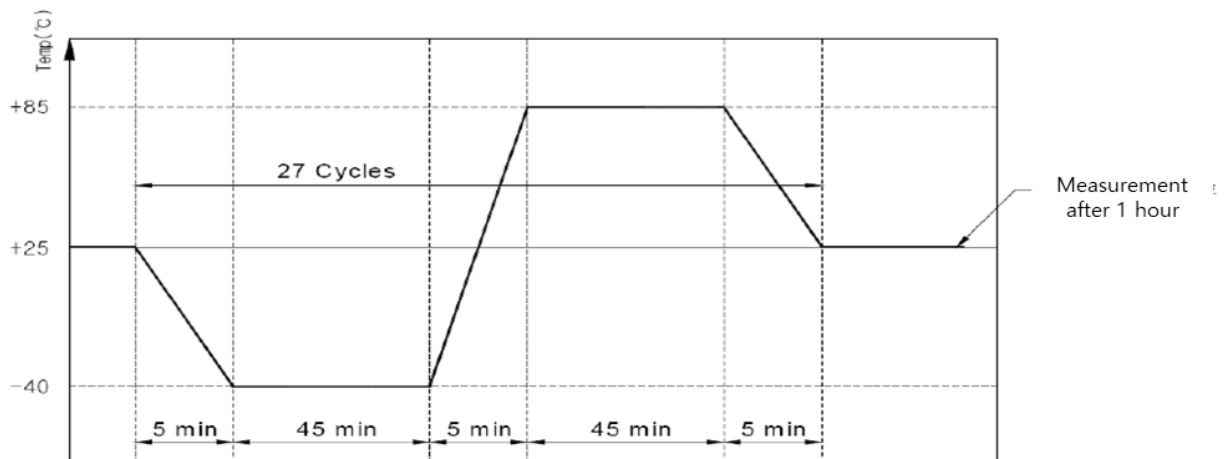
5.3.3 Low Storage Temperature

- (1) Put the sample to chamber
- (2) After lowering the temperature to -40°C , keep it for 48 hours (reaching time about 2 hour).
- (3) After increasing the temperature to $+25^{\circ}\text{C}$, keep it for 1 hour (reaching time about 2 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



5.3.4 Heat Shocks

- (1) Put the sample to chamber
- (2) After lowering the temperature to -40°C , keep it for 45 minute (reaching time about 5 minute).
- (3) After increasing the temperature to $+85^{\circ}\text{C}$, keep it for 45 minute (reaching time about 5 minute).
- (4) After lowering the temperature to $+25^{\circ}\text{C}$ (reaching time about 5 minute).
- (5) Items (2), (3), and (4) are 1 cycle, and repeat a total of 27 cycles.
- (6) After 27Cycle is over, keep it at $+25^{\circ}\text{C}$ for 1 hour.
- (7) Take out a sample and measure its properties.
- (8) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics



5.3.5 Salt Spray

- (1) Put the sample to chamber
- (2) It is maintained for 48 hours in a state of spraying 5% NaCl at room temperature 35°C.
- (3) Take out a sample and measure its properties.
- (4) In terms of appearance, corrosion, rust, increased resistance of the terminal part, and peeling should not occur, and the measured value should satisfy the electrical characteristics.

CUSTOMER : RAYENCE

Approval No.	
Rev.	1.0

Approval Sheet

Product Name	1417WCE (155mm)
Model	RAT012A
Applied Model	X-Ray Detector
Specifics	1. First Edition (3T3R WIFI ANTENNA)
Mass production place	RFTech / Yongin-Si, Gyeonggi-Do

	APPROVAL				
Supplier					
Customer	Detector Development	QC	Manufacturing	Purchasing	Approval

Customer	Rayence Co., Ltd.	CEO	JaeJeong Seo
Address	14, Samsung 1-ro 1-gil, Hwaseong-si, Gyeonggi-do, Korea TEL:031)8015-6427 FAX:031)8015-6429		
Supplier	RFTech Co., Ltd.	CEO	JinHyung Lee
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5.3.5	Salt Spray.....	11

1 Revision History

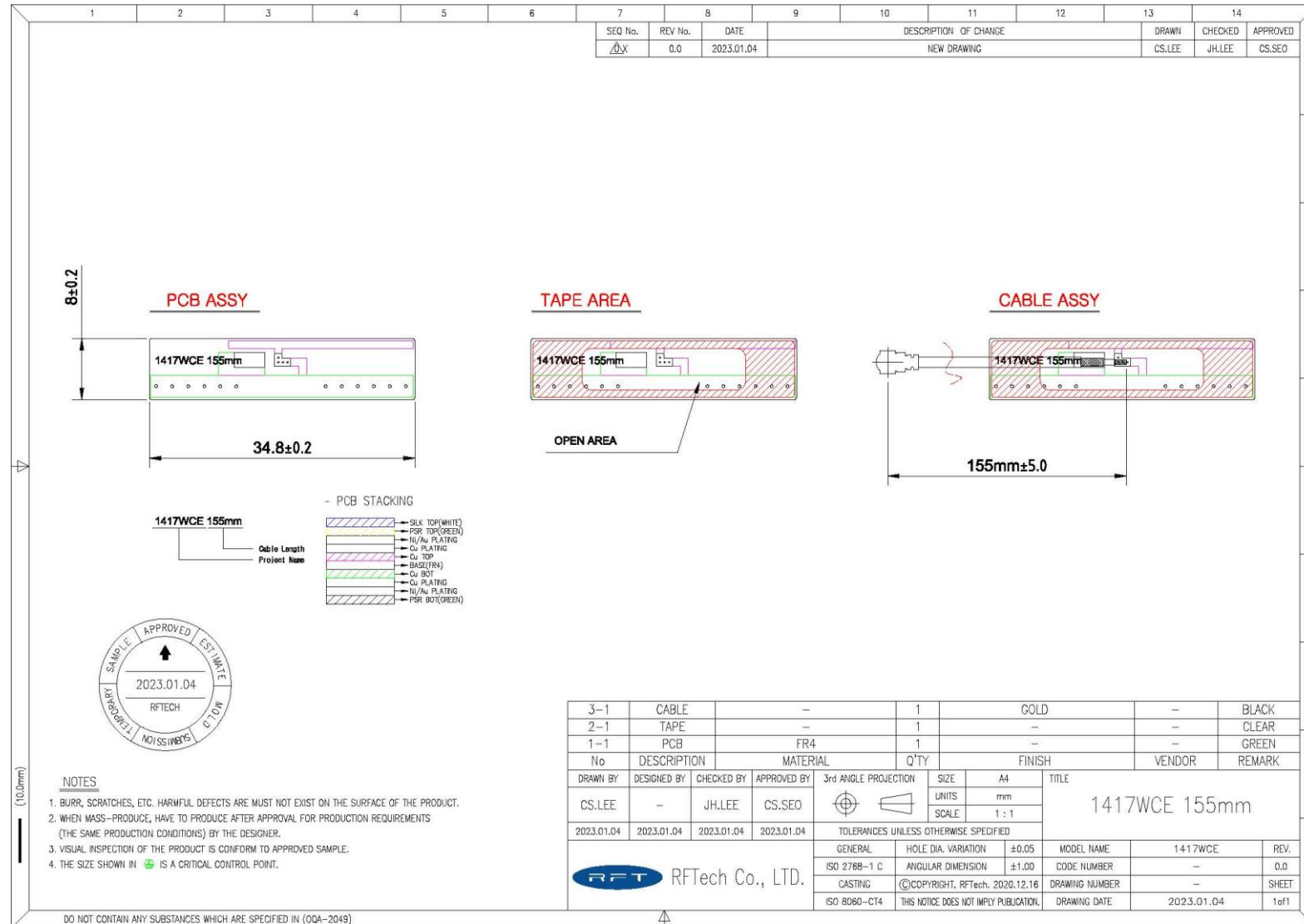
Revision No	Author	Remark	Date
Ver 1.0	Yu Jun Lee	1. First Edition (1417WCE 155mm WIFI ANTENNA)	2023. 01. 30

2 Part List

NO.	Item CODE	Item	Part Name	Material / SIZE	Finish	QTY	Remark
1		ANTENNA ASS'Y	ANT PCB	FR-4 0.8T / 34.8 X 7.6	Cu / Au PLATING	1	
			CABLE ASS'Y	CONNECTOR PLUG TYPE : U.FL / Ø1.3 x 155mm	Au PLATING	1	
			ADHESIVE	WATER PROOF(IPX 8) / 34.2 X 7.0	-	1	

3 Drawing

3.1 ANTENNA ASS'Y



4 ANTENNA Electrical Specification

4.1 Frequency

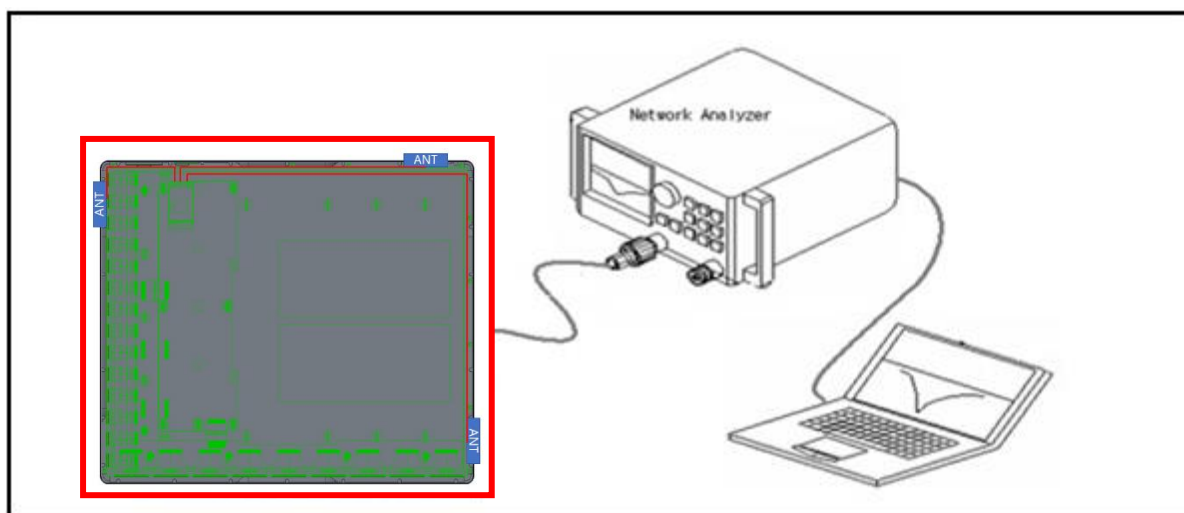
4.1.1 WIFI ANTENNA

Band	Frequency [MHz]
WIFI 2.4GHz	2400 ~ 2485
WIFI 5.0GHz	5180 ~ 5805

4.2 Test Procedure

4.2.1 VSWR and SMITH CHART

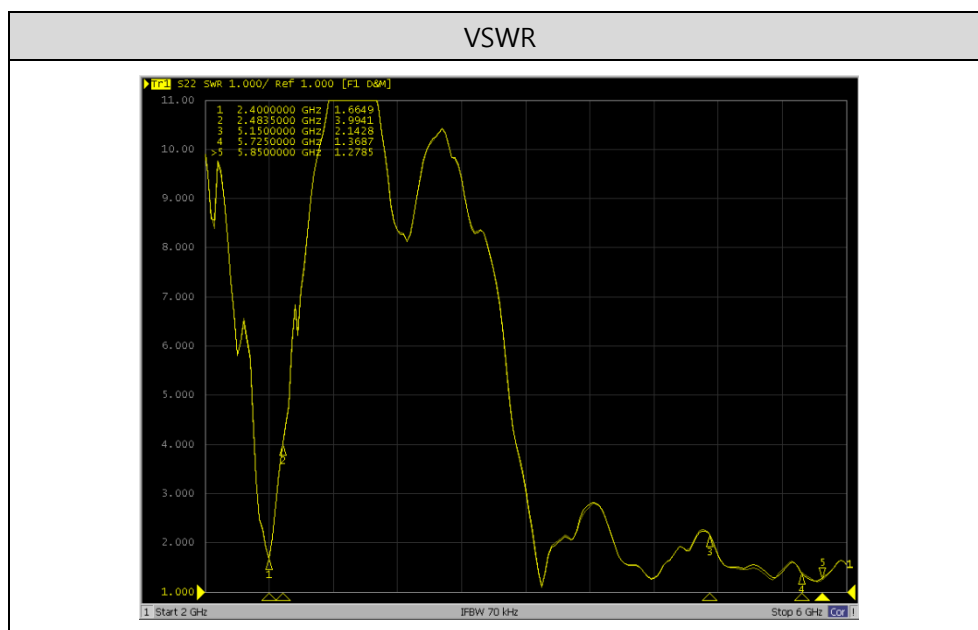
- Turn On Network Analyzer.
- Set the start frequency and end frequency for optimal calibration.
- Perform one port calibration in the order of open, short, and load, and check for abnormalities.
- Since the characteristics of the antenna are greatly affected by surrounding metal objects, avoid surrounding metal objects. Keep a certain distance from Network Analyzer.
- Test Condition



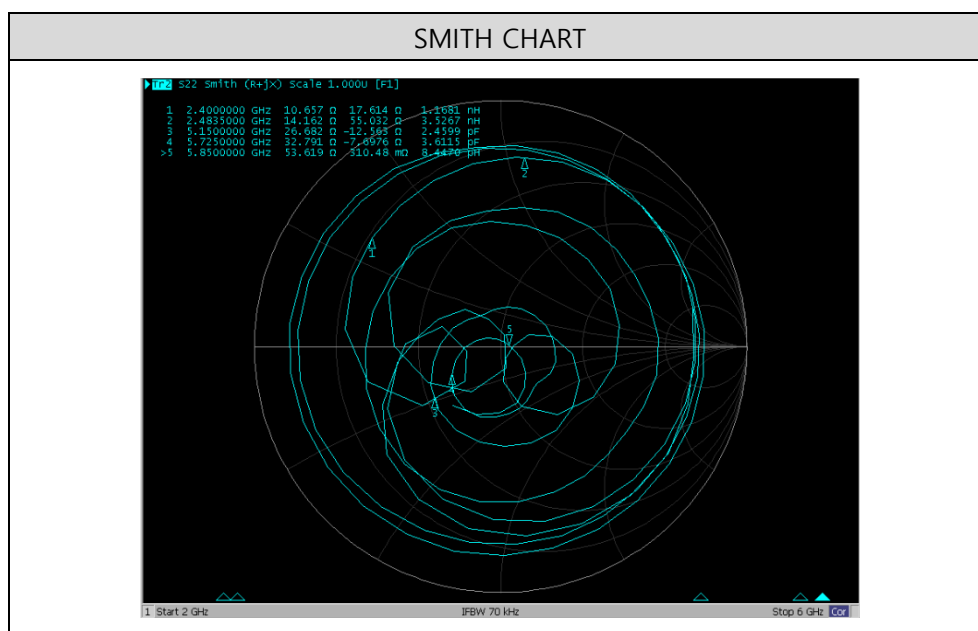
4.3 Electrical Specification Data

4.3.1 VSWR and SMITH CHART

4.3.1.1 VSWR



4.3.1.2 SMITH CHART



4.4 GAIN DATA

4.4.1 2D GAIN

Frequency[MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13
	2400	2421	2442	2463	2484	5180	5240	5260	5320	5500	5620	5745	5805
Efficiency[dB]	-6.59	-6.19	-4.38	-3.06	-2.62	-2.04	-1.53	-0.99	-2.00	-1.06	-0.90	-0.85	-1.75
Efficiency[%]	21.92	24.06	36.51	49.48	54.69	62.51	70.29	78.58	63.16	78.36	81.28	82.21	66.83
Peak Gain[dBi]	-0.27	-0.54	1.74	2.27	2.99	2.66	2.42	2.44	2.38	2.97	2.57	5.49	4.83

5 Reliability Test

5.1 Reliability Test Specifications(Condition, Method, Criteria)

Test Contents		Test Condition	Samples	Test Tool	Criterion
Electrical Specification	Initial Specification	at room temperature Initial Specification	20	- Network Analyzer	- should satisfy the electrical characteristics.
climate environment	high temperature / high humidity	60°C/95%, 50Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Heat Shocks	85°C ~ -40°C each 45Min → 1Cycle, Total 27Cycle	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Low Storage Temperature	-40°C, 52Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	High Storage Temperature	85°C, 52Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Salt Spray	35°C, 5% NaCl, 48Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.

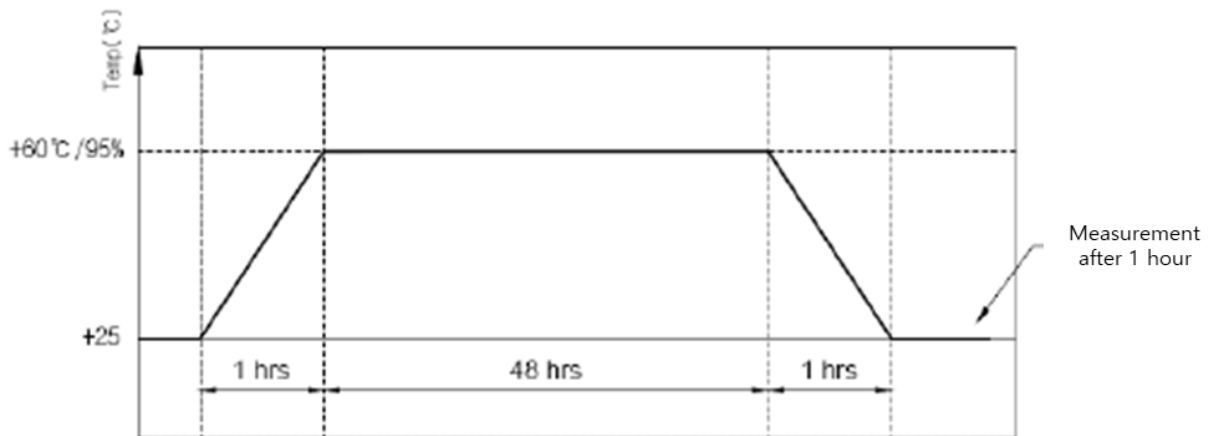
5.2 Reliability Test Result

climate environment	samples	result
high temperature / high humidity (60°C/95%, 50Hr)	5	PASS
Heat Shocks(85°C ~ -40°C each 45Min → 1Cycle, Total 27Cycle)	5	PASS
Low Storage Temperature (-40°C, 52Hr)	5	PASS
High Storage Temperature (85°C, 52Hr)	5	PASS
Salt Spray (35°C, 5% NaCl, 48Hr)	5	PASS

5.3 Reliability Test Procedure

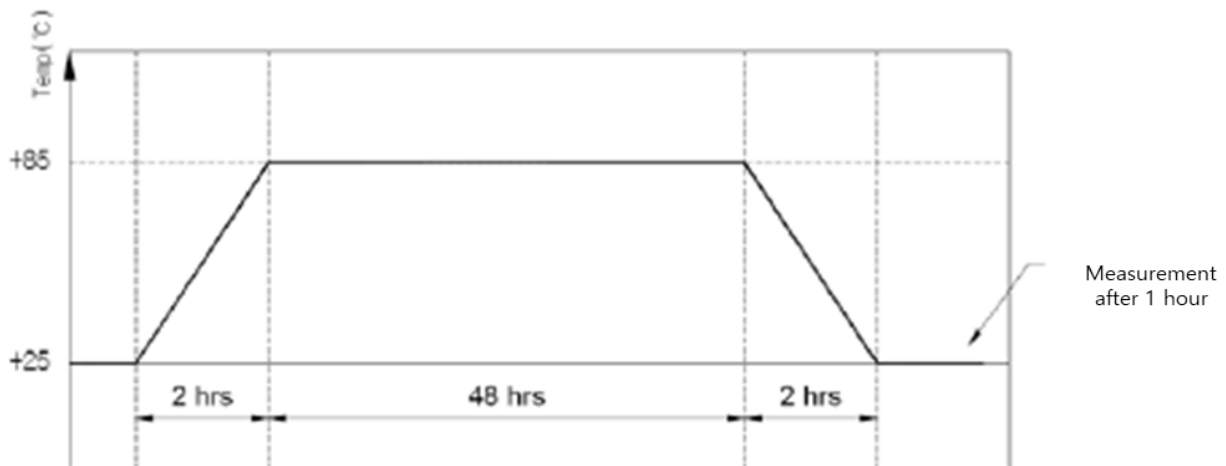
5.3.1 High Temperature and Humidity

- (1) Put the sample to chamber
- (2) After increasing the temperature/humidity to +60°C/95%, keep it for 48 hours (reaching time about 1 hour).
- (3) After lowering the temperature/humidity to +25°C/0%, keep it for 1 hour (reaching time about 1 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



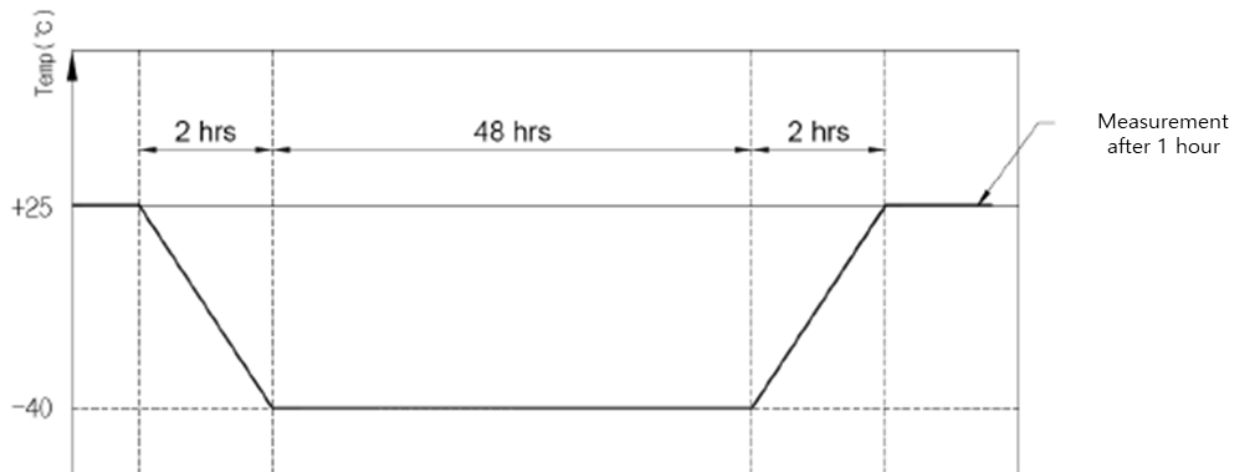
5.3.2 High Storage Temperature

- (1) Put the sample to chamber
- (2) After increasing the temperature to +85°C, keep it for 48 hours (reaching time about 2 hour).
- (3) After lowering the temperature to +25°C, keep it for 1 hour (reaching time about 2 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



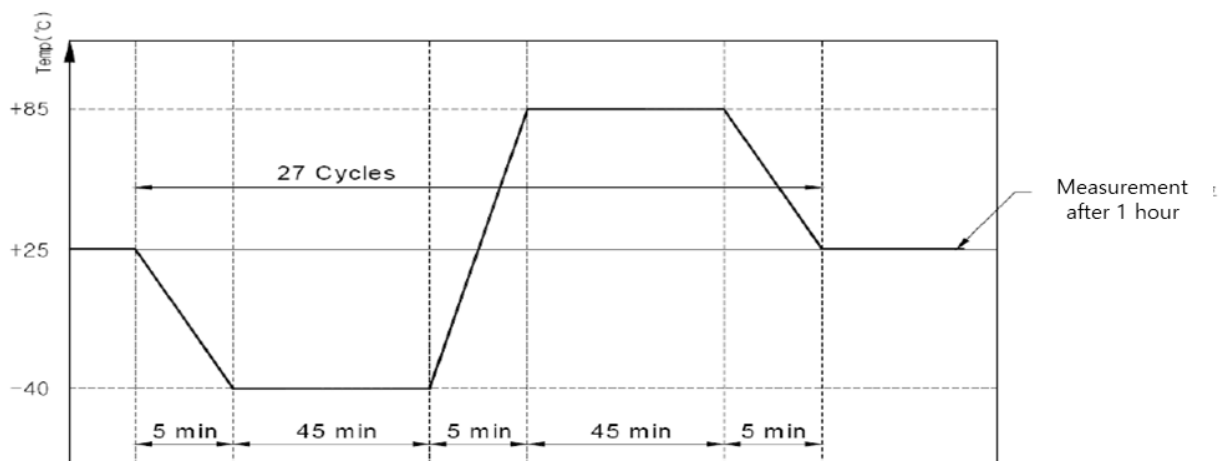
5.3.3 Low Storage Temperature

- (1) Put the sample to chamber
- (2) After lowering the temperature to -40°C , keep it for 48 hours (reaching time about 2 hour).
- (3) After increasing the temperature to $+25^{\circ}\text{C}$, keep it for 1 hour (reaching time about 2 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



5.3.4 Heat Shocks

- (1) Put the sample to chamber
- (2) After lowering the temperature to -40°C , keep it for 45 minute (reaching time about 5 minute).
- (3) After increasing the temperature to $+85^{\circ}\text{C}$, keep it for 45 minute (reaching time about 5 minute).
- (4) After lowering the temperature to $+25^{\circ}\text{C}$ (reaching time about 5 minute).
- (5) Items (2), (3), and (4) are 1 cycle, and repeat a total of 27 cycles.
- (6) After 27Cycle is over, keep it at $+25^{\circ}\text{C}$ for 1 hour.
- (7) Take out a sample and measure its properties.
- (8) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics



5.3.5 Salt Spray

- (1) Put the sample to chamber
- (2) It is maintained for 48 hours in a state of spraying 5% NaCl at room temperature 35°C.
- (3) Take out a sample and measure its properties.
- (4) In terms of appearance, corrosion, rust, increased resistance of the terminal part, and peeling should not occur, and the measured value should satisfy the electrical characteristics.

CUSTOMER : RAYENCE

Approval No.	
Rev.	1.0

Approval Sheet

Product Name	1417WCE (356mm)
Model	RAT011A
Applied Model	X-Ray Detector
Specifics	1. First Edition (3T3R WIFI ANTENNA)
Mass production place	RFTech / Yongin-Si, Gyeonggi-Do

	APPROVAL				
Supplier					
Customer	Detector Development	QC	Manufacturing	Purchasing	Approval

Customer	Rayence Co., Ltd.	CEO	JaeJeong Seo
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1 Revision History

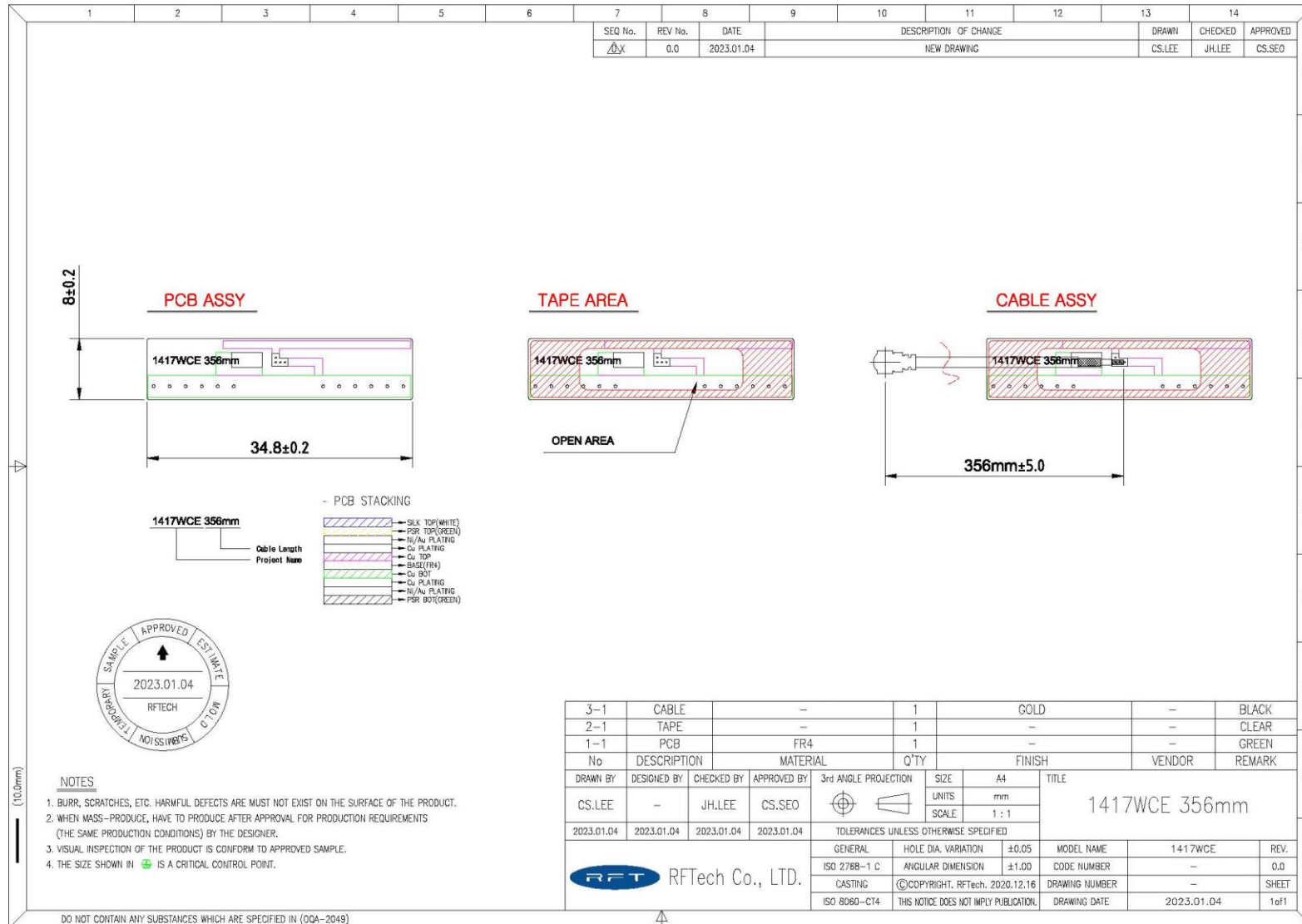
Revision No	Author	Remark	Date
Ver 1.0	Yu Jun Lee	1. First Edition (1417WCE 356mm WIFI ANTENNA)	2023. 01. 30

2 Part List

NO.	Item CODE	Item	Part Name	Material / SIZE	Finish	QTY	Remark
1		ANTENNA ASS'Y	ANT PCB	FR-4 0.8T / 34.8 X 7.6	Cu / Au PLATING	1	
			CABLE ASS'Y	CONNECTOR PLUG TYPE : U.FL / Ø1.3 x 356mm	Au PLATING	1	
			ADHESIVE	WATER PROOF(IPX 8) / 34.2 X 7.0	-	1	

3 Drawing

3.1 ANTENNA ASS'Y



4 ANTENNA Electrical Specification

4.1 Frequency

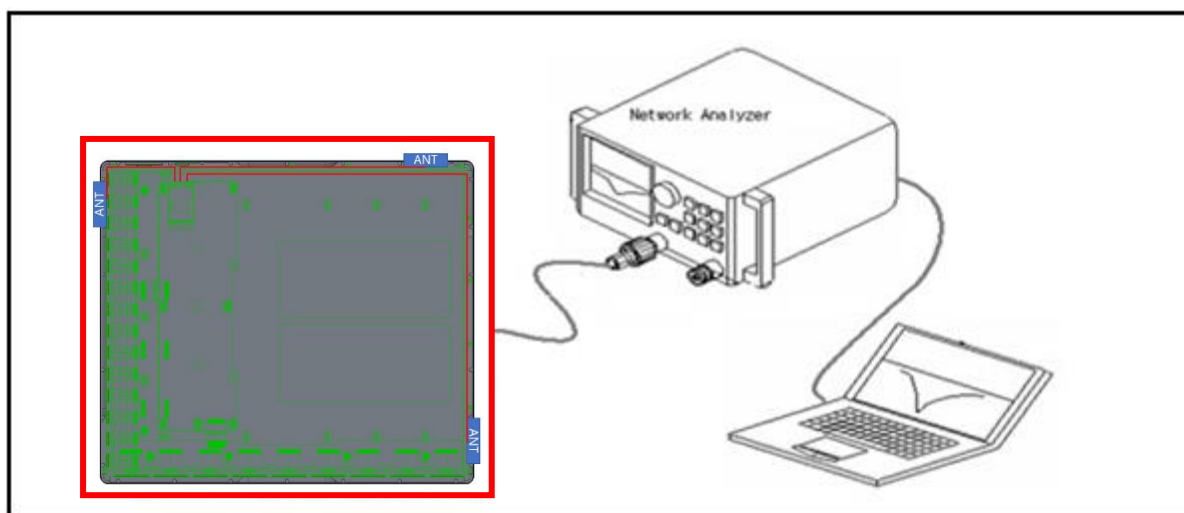
4.1.1 WIFI ANTENNA

Band	Frequency [MHz]
WIFI 2.4GHz	2400 ~ 2485
WIFI 5.0GHz	5180 ~ 5805

4.2 Test Procedure

4.2.1 VSWR and SMITH CHART

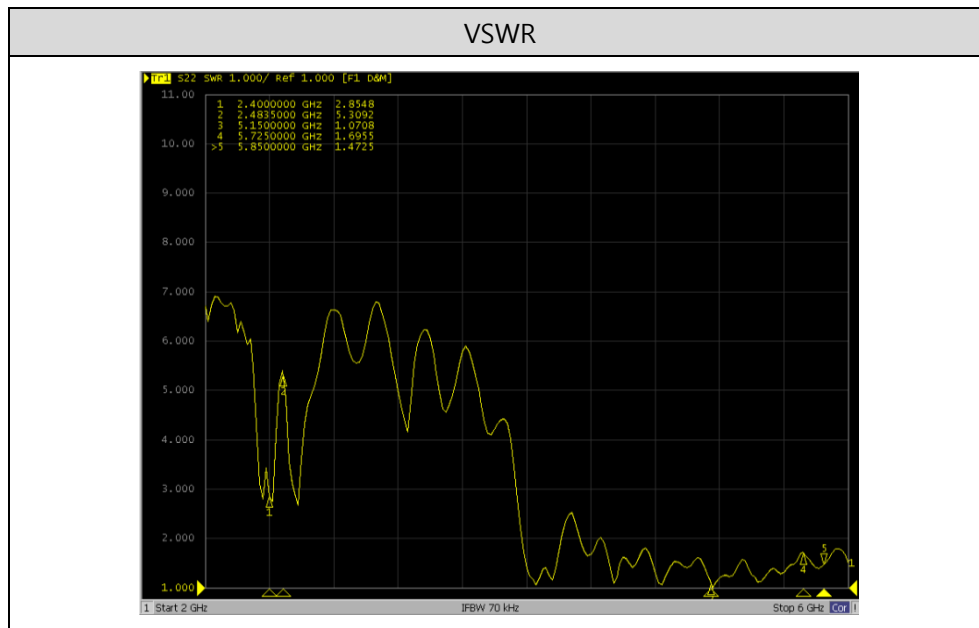
- Turn On Network Analyzer.
- Set the start frequency and end frequency for optimal calibration.
- Perform one port calibration in the order of open, short, and load, and check for abnormalities.
- Since the characteristics of the antenna are greatly affected by surrounding metal objects, avoid surrounding metal objects. Keep a certain distance from Network Analyzer.
- Test Condition



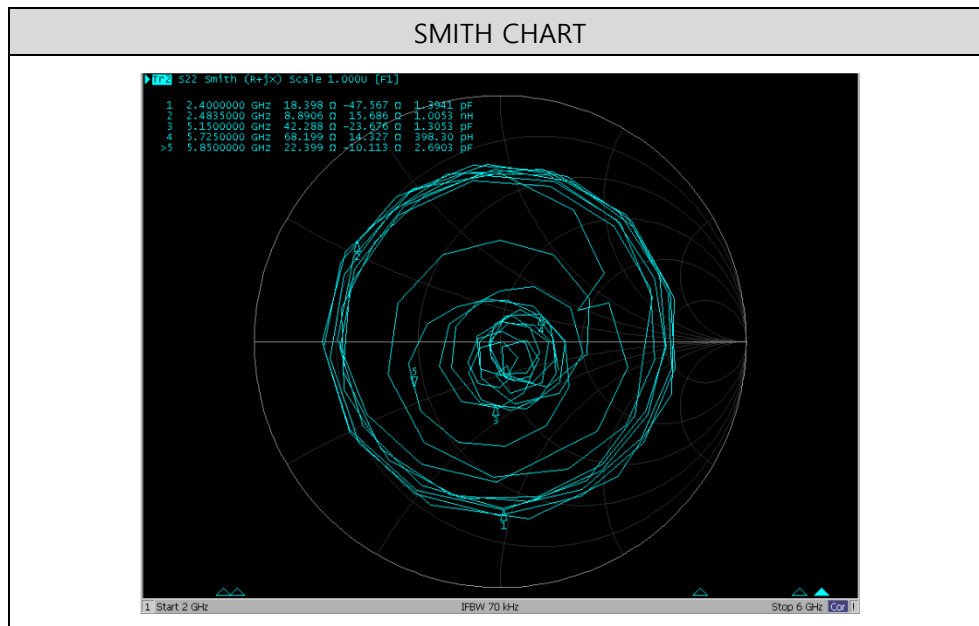
4.3 Electrical Specification Data

4.3.1 VSWR and SMITH CHART

4.3.1.1 VSWR



4.3.1.2 SMITH CHART



4.4 GAIN DATA

4.4.1 2D GAIN

Frequency[MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13
	2400	2421	2442	2463	2484	5180	5240	5260	5320	5500	5620	5745	5805
Efficiency[dB]	-9.60	-11.54	-11.23	-8.36	-4.01	-3.69	-2.97	-3.13	-3.52	-2.25	-2.34	-2.15	-3.83
Efficiency[%]	10.96	7.01	7.53	14.60	39.73	42.75	50.41	48.60	44.51	59.55	58.32	60.98	41.42
Peak Gain[dBi]	-3.27	-5.09	-5.71	-3.28	1.21	2.86	3.04	2.86	3.03	3.08	3.09	4.23	2.31

5 Reliability Test

5.1 Reliability Test Specifications(Condition, Method, Criteria)

Test Contents		Test Condition	Samples	Test Tool	Criterion
Electrical Specification	Initial Specification	at room temperature Initial Specification	20	- Network Analyzer	- should satisfy the electrical characteristics.
climate environment	high temperature / high humidity	60°C/95%, 50Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Heat Shocks	85°C ~ -40°C each 45Min → 1Cycle, Total 27Cycle	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Low Storage Temperature	-40°C, 52Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	High Storage Temperature	85°C, 52Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.
	Salt Spray	35°C, 5% NaCl, 48Hr	5	- Chamber - Network Analyzer	- should appearance and satisfy the electrical characteristics.

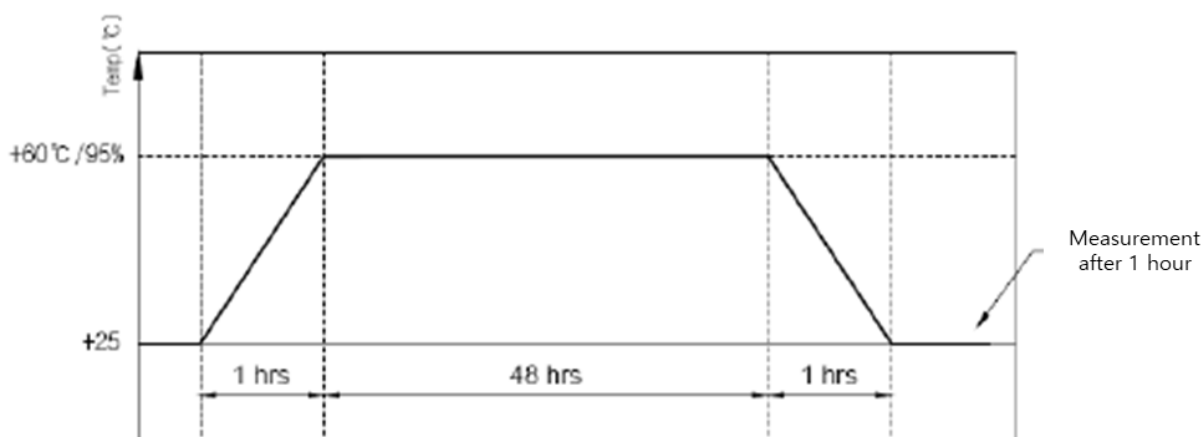
5.2 Reliability Test Result

climate environment	samples	result
high temperature / high humidity (60°C/95%, 50Hr)	5	PASS
Heat Shocks(85°C ~ -40°C each 45Min → 1Cycle, Total 27Cycle)	5	PASS
Low Storage Temperature (-40°C, 52Hr)	5	PASS
High Storage Temperature (85°C, 52Hr)	5	PASS
Salt Spray (35°C, 5% NaCl, 48Hr)	5	PASS

5.3 Reliability Test Procedure

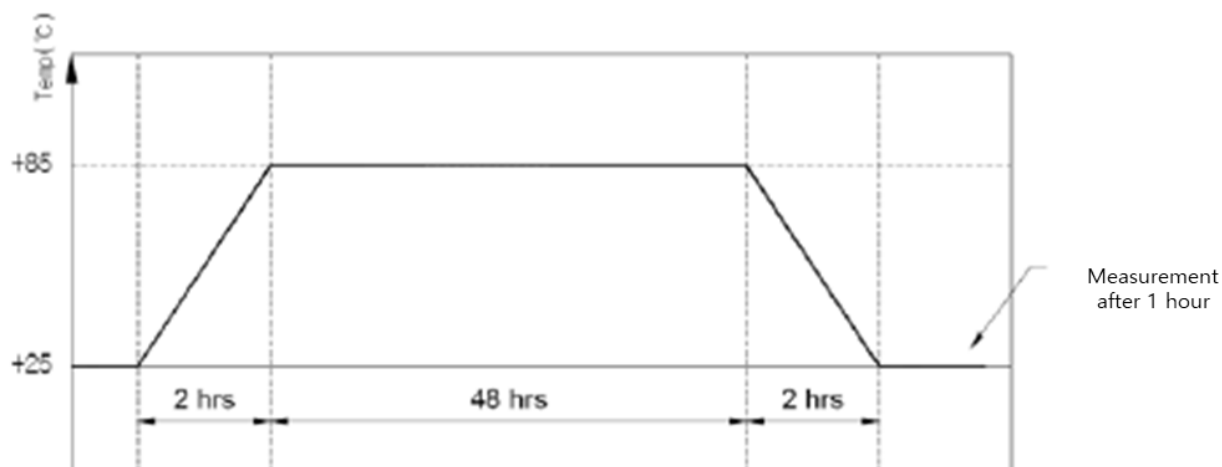
5.3.1 High Temperature and Humidity

- (1) Put the sample to chamber
- (2) After increasing the temperature/humidity to $+60^{\circ}\text{C}/95\%$, keep it for 48 hours (reaching time about 1 hour).
- (3) After lowering the temperature/humidity to $+25^{\circ}\text{C}/0\%$, keep it for 1 hour (reaching time about 1 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



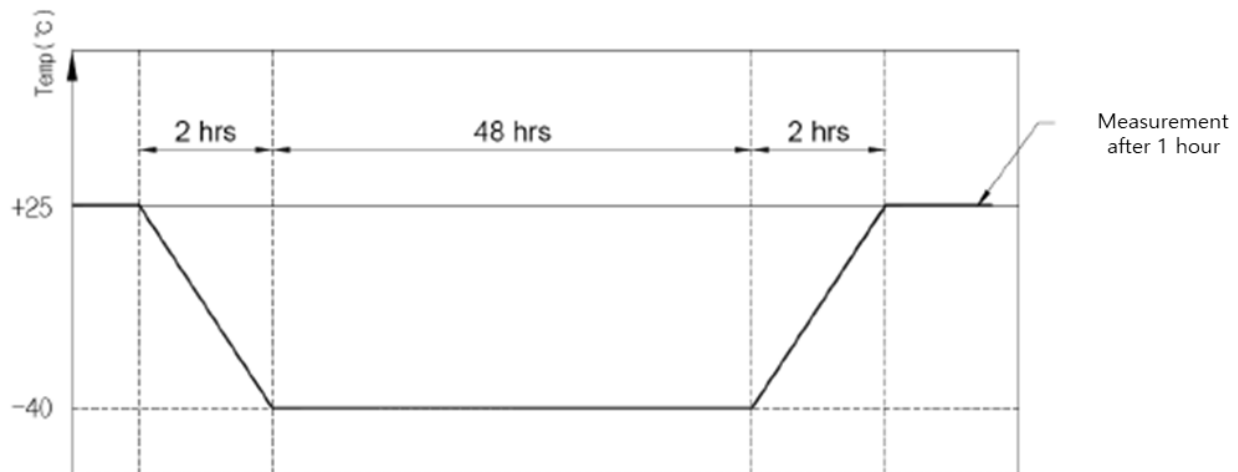
5.3.2 High Storage Temperature

- (1) Put the sample to chamber
- (2) After increasing the temperature to $+85^{\circ}\text{C}$, keep it for 48 hours (reaching time about 2 hour).
- (3) After lowering the temperature to $+25^{\circ}\text{C}$, keep it for 1 hour (reaching time about 2 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



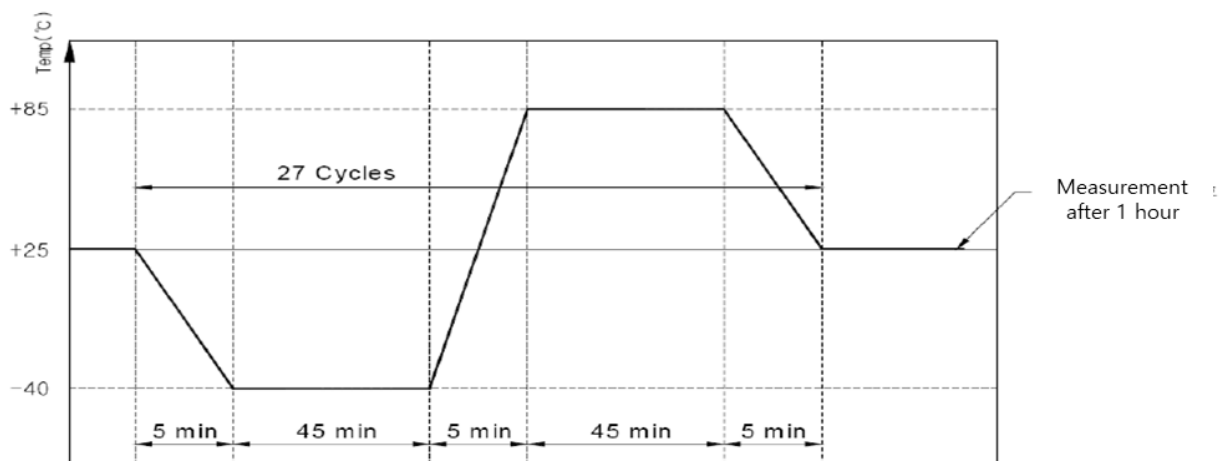
5.3.3 Low Storage Temperature

- (1) Put the sample to chamber
- (2) After lowering the temperature to -40°C , keep it for 48 hours (reaching time about 2 hour).
- (3) After increasing the temperature to $+25^{\circ}\text{C}$, keep it for 1 hour (reaching time about 2 hour).
- (4) Take out a sample and measure its properties.
- (5) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics.



5.3.4 Heat Shocks

- (1) Put the sample to chamber
- (2) After lowering the temperature to -40°C , keep it for 45 minute (reaching time about 5 minute).
- (3) After increasing the temperature to $+85^{\circ}\text{C}$, keep it for 45 minute (reaching time about 5 minute).
- (4) After lowering the temperature to $+25^{\circ}\text{C}$ (reaching time about 5 minute).
- (5) Items (2), (3), and (4) are 1 cycle, and repeat a total of 27 cycles.
- (6) After 27Cycle is over, keep it at $+25^{\circ}\text{C}$ for 1 hour.
- (7) Take out a sample and measure its properties.
- (8) There should be no defects in appearance, and the measured value should satisfy the electrical characteristics



5.3.5 Salt Spray

- (1) Put the sample to chamber
- (2) It is maintained for 48 hours in a state of spraying 5% NaCl at room temperature 35°C.
- (3) Take out a sample and measure its properties.
- (4) In terms of appearance, corrosion, rust, increased resistance of the terminal part, and peeling should not occur, and the measured value should satisfy the electrical characteristics.