

RF Test Report

Applicant : Framery Oy

Product Name : Core Unit

Trade Name : Framery

Model Number : 9010673

Applicable Standard : MIC Notice No.88 Appendix No.1
MIC Notification, No.88 of 2004, appendix 22-16
MIC Certification Rule, Article 2 Paragraph 1 Item 8 (60GHz band
Detection sensor of moving objects)
Article 49-14, Paragraph 1, Item 12 and the relevant articles Test
Method

Received Date : Jun. 18, 2025

Test Period : Jul. 21, 2025 ~ Jun. 12, 2026

Issued Date : Jun. 15, 2026

Issue by

Eurofins E&E Wireless Taiwan Co., Ltd.

No. 140-1, Changan Street, Bade District,
Taoyuan City, Taiwan (R.O.C)

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Note:

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Revision History

Rev.	Issued Date	Description	Revised by
00	Apr. 15, 2026	Initial Issue	Snow Wang
01	Jun. 15, 2026	Update Test Period (P.1) Update chapter 2.4 (P.9~10) Update chapter 5 (P.28) Update chapter 5 (P.39~42/P.55~58)	Snow Wang

Verification of Compliance

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Test Result : Complied

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The above equipment has been tested by Eurofins E&E Wireless Taiwan Co., Ltd., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By

: Kai Yu Tang

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Appendix A. Test Setup Photographs

1 General Information

1.1. EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except Declared Rated Power, Antenna Power , E.I.R.P.).

Applicant	Framery Oy Patamaenkatu 7, Tampere 33900, Finland
Product Name	Core Unit
Trade Name	Framery
Model Number	9010673
Hardware Version	B
Software Version	1.0.0
Antenna Information	Refer to section 4
Radio Equipment	Specified low-power radio equipment (60GHz band Detection sensor of moving objects)
Frequency Band	60 - 64 GHz
Frequency Declaration	60 - 64 GHz
Channel Bandwidth	4 GHz
Classification of Specified Radio Equipment	Article 2 Clause 1 Item 8
Modulation Type	FMCW
Type of Emissions	4G00F0N
Radar transmitting information	Period ON: 20μs Period OFF: 41μs
Operate Temp. Range	-15 ~ +35 °C
EUT Power Rating	24 Vdc
Declaration Antenna Power	0.14 mW
Antenna Power	0.13 mW
EIRP	-3.58 dBm

Testing Sample No.	
Test Item	Sample Number
Radiated Emissions	C256245_A003

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: ☒ No. 140-1, Changan Street, Bade District, Taoyuan City, Taiwan (R.O.C.)

Site Address: ☐ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Summary of Test Result

Item	Result	Remark
Frequency Tolerance	PASS	----
Occupied Bandwidth	PASS	----
Antenna Power	PASS	----
Antenna Power Tolerance	PASS	----
EIRP	PASS	----
Unwanted Emission Strength	PASS	----
Secondarily Radiated Emission Strength	PASS	----
Transmission Time Restriction	PASS	----
Antenna Gain	----	----

Decision Rule

- ☒ Uncertainty is not included.
☐ Uncertainty is included.

2 Test Methodology

2.1. Mode of Operation

Test Category

Specified low-power radio equipment (60GHz band Detection sensor of moving objects)

Test Mode
Transmit Mode
Receive mode

Test Item	Test Mode
Frequency Tolerance	Transmit Mode
Occupied Bandwidth	Transmit Mode
Antenna Power	Transmit Mode
Antenna Power Tolerance	Transmit Mode
EIRP	Transmit Mode
Unwanted Emission Strength	Transmit Mode
Secondarily Radiated Emission Strength	Receive mode
Transmission Time Restriction	Transmit Mode
Antenna Gain	---

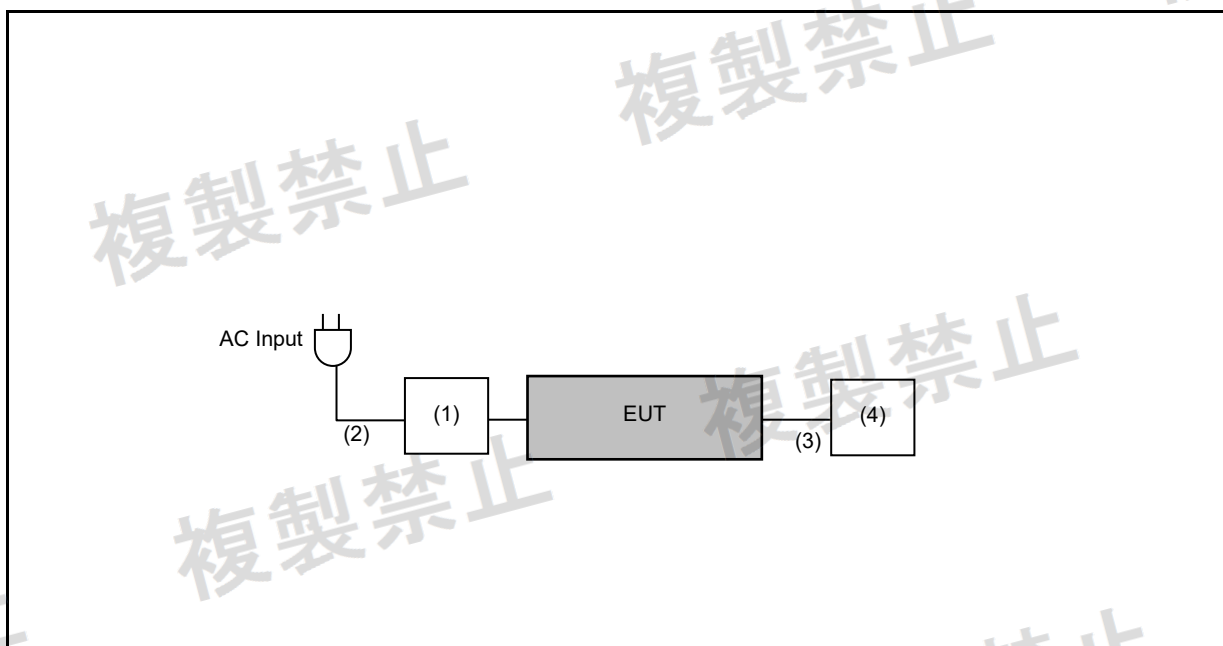
Manufacturer declares that when the normal supply voltage of EUT varies to $\pm 10\%$ extreme voltage, the input voltage of internal RF circuit can be controlled within $\pm 1\%$ range.

Hence, all the rest of test cases were done only with the normal supply voltage.

2.2. EUT Test Step

1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on Tx or Rx function.
3.	EUT run test program.

2.3. Configuration of Test System Details



	Product	Manufacturer	Model Number	Serial Number	Note
(1)	Power Unit	Framery	9004252	---	---
(2)	Power cable (2pin to 2pin)	Mekoprint	9007337	---	---
(3)	HDMI Cable	Mekoprint	9007337	---	---
(4)	Touch Screen	Framery	9007015	---	---

2.4. Test Instruments

For Radiated Emissions

Test Period: Jul. 21, 2025 ~ Aug. 07, 2025

Testing Engineer: Bruce Chen

Test Site		96603-BD						
Radiation test sites		Semi Anechoic Room						
Use	Equipment	Manufacturer	Model Number	Serial Number	Calibration Authority	Cal. Date	Cal. Period	Cal. Metho
☒	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	ETC	Mar. 07, 2025	1 year	(C)
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	ETC	Jan. 14, 2025	1 year	(C)
☒	Preamplifier (26.5 GHz~40 GHz)	EMCI	EMC2654045	980028	ETC	Sep. 02, 2024	1 year	(C)
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess- Elektronik	VULB9168	01146	ETC	Jun. 26, 2025	1 year	(C)
☒	Broadband Horn Antenna (1 GHz~18 GHz)	Schwarzbeck Mess- Elektronik	9120D	02207	ITRI	Aug. 30, 2024	1 year	(C)
☒	Power Supply	KEITHLEY	2303	4045290	MUM	Jan. 03, 2025	1 year	(C)
Remark : (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL. (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992). (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1). (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c) From JRL Article 24-2, paragraph 4, Item 2								

For Radiated Emissions
Test Period: Jun. 12, 2026
Testing Engineer: Bruce Chen

Test Site		96603-BD						
Radiation test sites		Semi Anechoic Room						
Use	Equipment	Manufacturer	Model Number	Serial Number	Calibration Authority	Cal. Date	Cal. Period	Cal. Metho
☒	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	ETC	Mar. 16, 2026	1 year	(C)
☒	Power Supply	KEITHLEY	2303	4045290	MUM	Dec. 18, 2025	1 year	(C)

Remark :

- (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
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From JRL Article 24-2, paragraph 4, Item 2

2.5. Uncertainty of Measured Value

Test Item	Uncertainty				
	BD		WG		
Radiated Emission (30 MHz~1000 MHz)	6.0 dB		6.0 dB		
Radiated Emission (1 GHz~18 GHz)	4.8 dB		4.9 dB		
Radiated Emission (18 GHz~26.5 GHz)	5.2 dB		5.0 dB		
Radiated Emission (26.5 GHz~40 GHz)	5.2 dB		5.1 dB		
Radiated Emission (40 GHz~50 GHz)	3.8 dB		3.8 dB		
Test Item	Uncertainty				
	96601-BD	96603-BD	96602-WG	96603-WG	96604-WG
Radiated Emission (50 GHz~75 GHz)	2.1 dB	2.1 dB	2.1 dB	2.1 dB	2.1 dB
Radiated Emission (75 GHz~90 GHz)	2.1 dB	2.1 dB	2.1 dB	2.1 dB	2.1 dB
Radiated Emission (90 GHz~140 GHz)	2.2 dB	2.2 dB	2.2 dB	2.2 dB	2.2 dB

2.6. Test Site Environment

Items	Test Item	Required	Interval(*)
Temperature (°C)	Conducted	5-35	20-30
Humidity (%RH)		45-85	45-75

(*)The measurement ambient temperature is within this range.

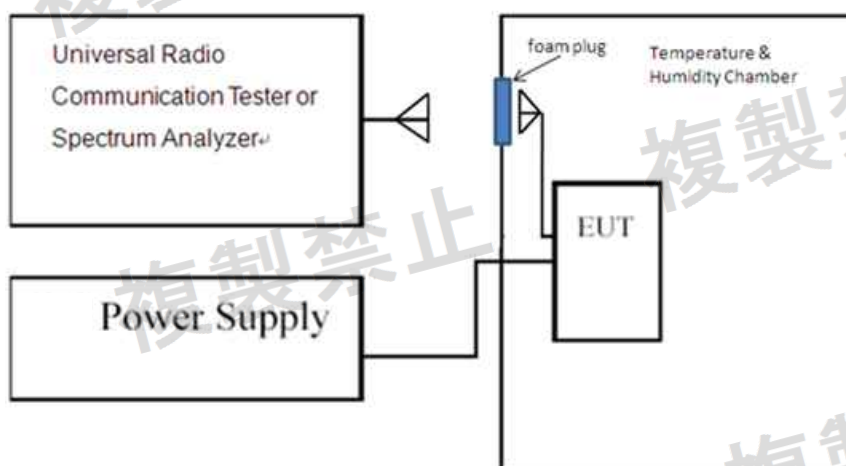
3 Measurement Procedure

3.1. Frequency Tolerance Measurement

■ Limit

Within the designated frequency band (Designated Frequency band : 57 ~ 64 GHz).

■ Test Setup



Setup A

■ Measuring Equipment Conditions

(1) Spectrum analyzer shall be follows:

Center frequency:	Test frequency
Frequency sweep width:	2 to 3.5 times the allowable value of the occupied bandwidth
Resolution bandwidth:	About 1% of the occupied frequency bandwidth
Video bandwidth:	Approximately same as the resolution bandwidth.
Y-axis scale:	10 dB/Div.
Input level:	Carrier level must be at least 40 dB above spectrum analyzer noise
Sweep time:	Minimum time for which measurement accuracy is guaranteed. However, in the case of burst waves, one burst or more per sample must be entered.
Data points:	400 points or more (e.g. 1001 points)
Sweep mode:	Continuous sweep
Detection mode:	Positive peak
Display mode:	Maximum hold

(2) The values measured by the spectrum analyzer shall be processed by external or built-in computer.

■ Conditions of Equipment under Test

Set the EUT to the test frequency and modulate it with standard coding test signal.

■ Measuring Operation Procedures

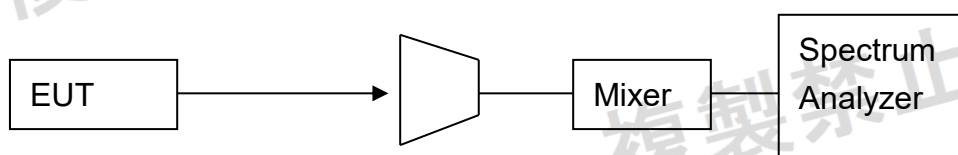
- (1) After repeating sweeps until the display shows steady data, store the values at all data points to the array variables of computer.
- (2) Convert the dBm values at all data point to the antilogarithm values on the power dimension.
- (3) Obtain the sum total of the power at all data points, and store it as "Total power".
- (4) Accumulate the power at each data point sequentially upward from the data point for the lowest frequency. Obtain the limit data point where the accumulated power equals 0.5 % (5% when spread-spectrum bandwidth) of the "total power". Convert this limit data point into frequency, and store it as the "lower limit frequency".
- (5) Accumulate the power at each data point sequentially downward from the data point for the highest frequency. Obtain the limit data point where the accumulated power equals 0.5 % (5% when spread-spectrum bandwidth) of the "Total power". Convert this limit data point into frequency, and store it as the "Upper limit frequency".

3.2. Occupied Bandwidth Measurement

■ Limit

Within 7 GHz.

■ Test Setup



■ Measuring Equipment Conditions

(1) Spectrum analyzer shall be follows:

Center frequency:	Test frequency
Frequency sweep width:	2 to 3.5 times the allowable value of the occupied bandwidth
Resolution bandwidth:	About 1% of the occupied frequency bandwidth
Video bandwidth:	Approximately same as the resolution bandwidth.
Y-axis scale:	10 dB/Div.
Input level:	Carrier level must be at least 40 dB above spectrum analyzer noise
Sweep time:	Minimum time for which measurement accuracy is guaranteed. However, in the case of burst waves, one burst or more per sample must be entered.
Data points:	400 points or more (e.g. 1001 points)
Sweep mode:	Continuous sweep
Detection mode:	Positive peak
Display mode:	Maximum hold

(2) The values measured by the spectrum analyzer shall be processed by external or built-in computer.

■ Conditions of Equipment under Test

Set the EUT to the test frequency and modulate it with standard coding test signal.

■ Measuring Operation Procedures

- (1) After repeating sweeps until the display shows steady data, store the values at all data points to the array variables of computer.
- (2) Convert the dBm values at all data point to the antilogarithm values on the power dimension.
- (3) Obtain the sum total of the power at all data points, and store it as "Total power".
- (4) Accumulate the power at each data point sequentially upward from the data point for the lowest frequency. Obtain the limit data point where the accumulated power equals 0.5 % (5% when spread-spectrum bandwidth) of the "total power". Convert this limit data point into frequency, and store it as the "lower limit frequency".
- (5) Accumulate the power at each data point sequentially downward from the data point for the highest frequency. Obtain the limit data point where the accumulated power equals 0.5 % (5% when spread-spectrum bandwidth) of the "Total power". Convert this limit data point into frequency, and store it as the "Upper limit frequency".

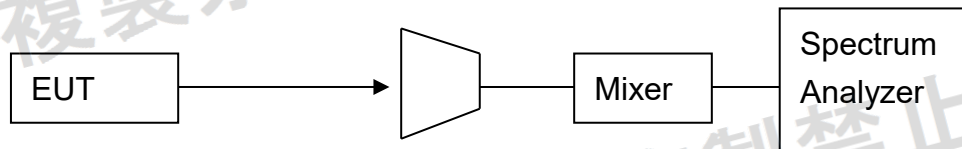
3.3. Antenna Power, Antenna Power Tolerance and EIRP Measurement

■ Limit

Antenna Power ≤ 10 dBm (Peak), EIRP ≤ 13 dBm

Antenna Power Tolerance: +50 ~ -70 %

■ Test Setup



■ Measuring Equipment Conditions

(1) The spectrum analyzer settings for the frequency search that give the maximum antenna power are as follows:

Center frequency:	Test frequency
Frequency sweep width:	About 30% of the specified frequency bandwidth
Resolution bandwidth:	1 MHz
Video bandwidth:	Approximately same as the resolution bandwidth.
Y-axis scale:	10 dB/Div.
Input level:	Value for maximum dynamic range
Sweep time:	Minimum time for which measurement accuracy is guaranteed. However, in the case of burst waves, one burst or more per sample must be entered.
Data points:	400 points or more (e.g. 1001 points)
Sweep mode:	Continuous sweep
Detection mode:	Positive peak
Display mode:	Maximum hold

(2) The spectrum analyzer settings for antenna power measurements are as follows:

Center frequency:	Searched frequency
Frequency sweep width:	0 Hz
Resolution bandwidth:	3 MHz or more
Video bandwidth:	Approximately same as the resolution bandwidth.
Y-axis scale:	10 dB/Div.
Input level:	Value for maximum dynamic range
Sweep time:	Minimum time for which measurement accuracy is guaranteed.
Sweep mode:	Single sweep
Detection mode:	Sample

■ Conditions of Equipment under Test

Set the EUT to the test frequency and modulate it with standard coding test signal.

■ Measuring Operation Procedures

- (1) The height and direction of the test equipment and the antenna for measurement should be approximately opposite each other.
- (2) Receive the spectrum analyzer settings as 2(1).
- (3) Rotate the EUT and adjust to the maximum received power point.
- (4) Repeat the sweep and measure the frequency with the maximum power using a marker. In this case, in order to increase the frequency measurement accuracy of the spectrum analyzer, the frequency sweep width is successively narrowed to 10 MHz, 1 MHz, and 200 kHz to find the frequency that maximizes the power. Using this frequency as the center frequency, set the spectrum analyzer to 2(2).
- (5) Change the ground height of the measurement antenna for about ± 50 cm centered on the antenna of the test equipment, adjust the direction of the measurement antenna, search for the position where the power is maximum, and measure the spectrum at this point. Let "E" be the average power of the analyzer.
- (6) Remove the test equipment from the table, set the aperture of the replacement antenna to the same position as that of the test equipment, and emit and receive radio waves of the same frequency from the replacement standard signal generator.
- (7) Rotate the replacement antenna and adjust it to the maximum power point.
- (8) Change the height of the measuring antenna from the ground by about ± 50 cm around the replacement antenna, and adjust the direction of the measuring antenna to maximize the received power.
- (9) Adjust the output of the standard signal generator and record the power P_S that becomes a value equal to "E", or set it to a value close to "E" (within ± 1 dB) and calculate back from the difference from "E". Record P_S .
- (10) Calculate the antenna power (P_O) using the formula below.

$$P_O = P_S + G_S - G_T - L_F$$

P_S : Output of standard signal generator (dBm)

G_S : Absolute gain of substitute antenna (dBi)

G_T : Antenna absolute gain of test equipment (dBi)

L_F : Loss in feeder line between standard signal generator and substitute antenna (dB)

3.4. Unwanted Emission Strength Measurement

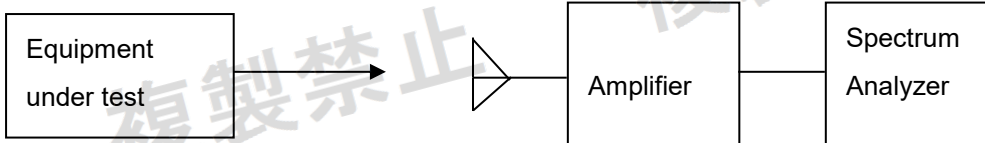
■ Limit

Frequency (MHz)	Limit
55.62 GHz or less	≤ -30 dBm /MHz
Over 55.62 GHz, 67.5 GHz or less*	≤ -26 dBm /MHz
Over 67.5 GHz	≤ -30 dBm /MHz

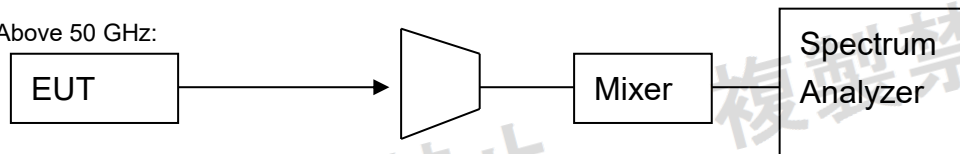
* except "Designated Frequency Band"

■ Test Setup

Below 50 GHz:



Above 50 GHz:



■ Measuring Equipment Conditions

- (1) The settings of the spectrum analyzer are removed, the measurement of the occupied frequency band and the same conditions, etc. are performed.
- (2) The settings of the spectrum analyzer when measuring the intensity of unwanted emissions found in the carrier or spurious region shall be:

Center frequency:	Carrier or unwanted emission frequency
Frequency sweep width:	0 Hz
Resolution bandwidth:	1 MHz
Video bandwidth:	Approximately same as the resolution bandwidth.
Y-axis scale:	10 dB/Div.
Input level:	Value for maximum dynamic range
Sweep time:	Minimum time for which measurement accuracy is guaranteed. However, in the case of burst waves, one burst or more per sample must be entered.
Sweep mode:	Single sweep
Detection mode:	Sample (positive peak if the desired value is the peak value)

- (3) The settings of the spectrum analyzer when searching for unwanted emissions in the spurious region are as follows.

Frequency sweep width:	Spurious area
Resolution bandwidth:	1 MHz
Video bandwidth:	Approximately same as the resolution bandwidth.
Y-axis scale:	10 dB/Div.
Input level:	Value for maximum dynamic range
Sweep time:	Minimum time for which measurement accuracy is guaranteed (Note)
Sweep mode:	Single sweep
Detection mode:	Positive peak

Note: In the case of the frequency hopping method, one hopping period or more is set per sample, and in the case of the burst wave, one burst duration or more is set per sample. However, in the case of burst waves, the sweep time can be set longer than the time obtained by "(sweep frequency width (MHz)/resolution bandwidth (MHz)) x burst period (s)".

■ Conditions of Equipment under Test

Set the EUT to the test frequency and modulate it with standard coding test signal.

■ Measuring Operation Procedures

- (1) In the case of the antenna integrated type, the measurement shall be made according to the following operating procedure.
 - a. Oppose the height and direction of the test equipment and the antenna for measurement.
 - b. Set the spectrum analyzer to 3(3) and sweep the frequency to search for unwanted emissions.
 - c. In order to increase the accuracy of the frequency of the spectrum analyzer, the sweep frequency width is gradually narrowed to accurately obtain the frequency of the searched unwanted emission.
 - d. For the frequency of the unwanted emission searched for in c (if there are multiple frequencies, each of them), measure the amplitude value of the unwanted emission by the following operations from e to k.
 - e. Set the spectrum analyzer to 3(2) and rotate the test equipment to adjust the angle at which the received power of unwanted emissions is maximized.
 - f. Change the ground height of the measurement antenna for about ± 50 cm around the antenna of the test equipment, and adjust the direction of the measurement antenna to find the position where the received power of the unwanted emission is maximized. Let E be the measured value.
 - g. Remove the test equipment from the table, set the aperture of the replacement antenna to the same position as the aperture of the test equipment, and transmit the same frequency radio waves from the replacement standard signal generator while transmitting the replacement standard signal. Rotate the generator and adjust the angle to maximize the received power.
 - h. The ground height of the measuring antenna should be changed within ± 50 cm around the opposing test equipment and the substitute antenna, and the direction of the measuring antenna should be adjusted to find the position where the received power is maximized. Adjust the power so that the point measurement equals E.
 - i. Using the power of h, convert it as follows to obtain the unwanted emission strength.

$$\text{Unwanted emission strength (dBm)} = P_s + G_s - G_T - L_F$$

P_s : Output of standard signal generator (dBm)
 G_s : Absolute gain of substitute antenna (dBi)
 G_T : Antenna absolute gain of test equipment (dBi)
 L_F : Loss in feeder line between standard signal generator and substitute antenna (dB)

3.5. Secondarily Emitted Radio Wave Strength Measurement

■ Limit

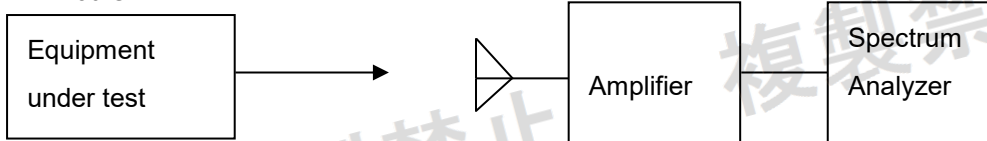
Frequency (MHz)	Limit
55.62 GHz or less	≤ -30 dBm /MHz
Over 55.62 GHz, 57 GHz or less*	≤ -26 dBm /MHz
Over 64 GHz, 67.5 GHz or less*	≤ -26 dBm /MHz
Over 67.5 GHz	≤ -30 dBm /MHz

■ Test Setup

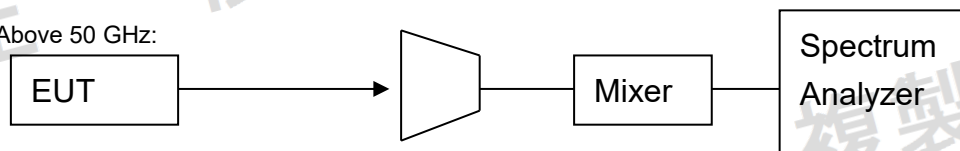
Below 50 GHz:

■ Test Setup

Below 50 GHz:



Above 50 GHz:



■ Measuring Equipment Conditions

Same as Unwanted Emission Strength item.

■ Conditions of Equipment under Test

Set the EUT to receive mode.

■ Measuring Operation Procedures

Same as Unwanted Emission Strength item.

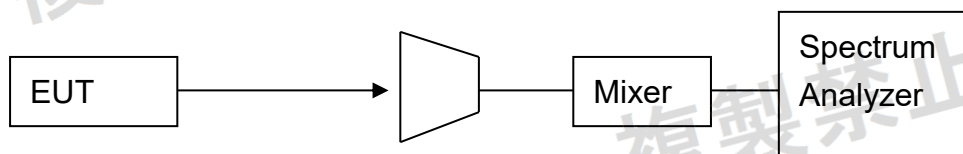
3.6. Transmission Time Restriction Measurement

■ Limit

"3.3ms or less" per "33ms"

■ Test Setup

Above 50 GHz:



■ Measuring Equipment Conditions

The digital storage oscilloscope is set up to measure the radiated output of the transmitter.

4 Antenna Information

■ Limit

N/A

■ Result

Antenna Info.			Gain Specification				Notes (Cable or Others)
No	Type	Model Number	Freq. Band	Max Gain (dBi)	Attenuation (dB)	Net Gain (dBi)	
1	Patch antenna	IWR6843AOP	60 - 64 GHz	5.2	0	0	Horizontal +Vertical

■ Construction Protection Confirmation Method

Confirmation Method

☐	1. Sealed with special screws (indicate the special screws used in Exterior View Drawings, and also attach its technical drawings of such screws).
☐	2. Plastic chassis is being welded using ultrasonic waves.
☐	3. Chassis is glued using a special adhesive.
☐	4. Metal covers are spot-fused (indicate the fused points in Exterior View Drawings).
☐	5. Cover is specially interlocked (indicate the interlocked part in Exterior View Drawings).
☐	6. Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	7. Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☒	8. Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	9. Other ()

5 Test Result

Over 57GHz, 64GHz or Less		
Modulation Method	FMCW	
Antenna Gain	5.2	dBi
Declaration Output Power	-3.58	dBm
Declaration Output Power	0.14	mW

Test Results

Frequency Tolerance				
Frequency (GHz)	Result			
	FL	FH	Voltage fluctuation	
	60.09	63.9	Normal	PASS
Limit	57 GHz to 64 GHz			

Occupied Bandwidth		
Result	Result	
	3.8373	GHz
	PASS	
Limit	Within 7 GHz	

E.I.R.P.				
Frequency (GHz)	Measurement Distance (m)	Result (dBm)		
57 to 64	3	-3.58	dBm	PASS
Limit	<13 dBm			

EIRP = Spectrum Reading + Free Space Loss – RX Antenna Gain + Mixer Loss + Cable Loss – 1m to 3m Factor
Note: The EIRP was evaluated on vertical and horizontal polarization, the worst case is Horizontal polarization.

Antenna Power (mW)			
Frequency (GHz)	Peak Result		
57 to 64	-8.78	dBm	PASS
	0.13	mW	
Limit	<10 dBm)		

Antenna Power Tolerance			
Result	-7.143	%	PASS
Limit	+50 % ~ -70 %		

Transmission Time Restriction			
Frequency (GHz)	Result		
57 to 64	1	ms	PASS
Limit	<3.3 ms per 33 ms		

Unwanted Emission Strength 30 MHz - 40 GHz								
Frequency	Frequency (GHz)	EIRP (dBm)	Factor (dB)	Result (dBm)		Limit		Ant. Pol.
30 MHz - 1 GHz	0.09693	-52.65	12.6	-40.05	PASS	-30 dBm/MHz	<55.62 GHz	V
1 GHz - 18 GHz	1.578	-56.71	11.35	-45.36	PASS	-30 dBm/MHz	<55.62 GHz	V
18 GHz - 26.5 GHz	19.207	-71.13	16.18	-54.95	PASS	-30 dBm/MHz	<55.62 GHz	V
26.5 GHz - 40 GHz	38.569	-68.87	19.01	-49.86	PASS	-30 dBm/MHz	<55.62 GHz	H

Unwanted Emission Strength 40 GHz - 220 GHz												
Frequency	Frequency (GHz)	SA Reading (dBm)	FS Loss(dB)	Horn Gain (dBi)	Mixer Loss (dB)	Cable Loss (dB)	1m to 3m Factor (dB)	EIRP (dBm)	Result	Limit		Ant. Pol.
40 GHz - 50 GHz	48.638	-93.06	66.17588493	22.7	0	6.12	9.54	-53.004	PASS	-30 dBm/MHz	~ 55.62GHz: -30dBm/MHz 55.62GHz - 57.00GHz: -26dBm/MHz 64.00GHz - 67.50GHz: -26dBm/MHz 67.5GHz ~: -30dBm/MHz	H
50 GHz - 55.62 GHz	52.062	-92.936	66.83041696	20.5	12.25	2.39	9.54	-41.506	PASS	-30 dBm/MHz		V
55.62 GHz - 57 GHz	56.969	-92.562	67.61277192	20.8	11.03	2.39	9.54	-41.869	PASS	-26 dBm/MHz		H
64 GHz - 67.5 GHz	67.102	-93	69.03470929	21.9	11.71	2.62	9.54	-41.075	PASS	-26 dBm/MHz		H
67.5 GHz - 75 GHz	70.79	-92.973	69.49943825	22.3	11.99	2.71	9.54	-40.614	PASS	-30 dBm/MHz		
75 GHz - 90 GHz	75.101	-102.709	70.84233457	22.1	11.67	2.38	9.54	-49.457	PASS	-30 dBm/MHz		V
90 GHz - 140 GHz	114.501	-102.681	73.9627047	21.6	10.3	2.74	9.54	-46.818	PASS	-30 dBm/MHz		H
140 GHz - 220 GHz	150.764	-102.375	78.45328467	21.7	12.58	2.57	9.54	-40.012	PASS	-30 dBm/MHz		H

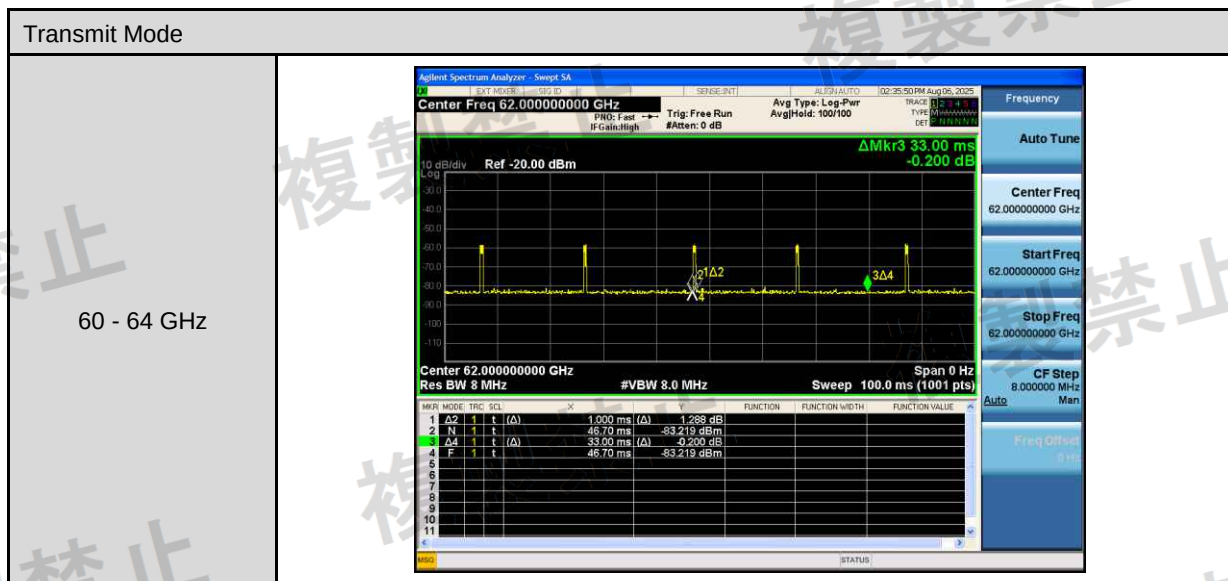
Secondary Radiated Emission Strength 30 MHz - 40 GHz								
Frequency	Frequency (GHz)	EIRP (dBm)	Factor (dB)	Result (dBm)		Limit		Ant. Pol.
30 MHz - 1 GHz	0.06104	-47.41	8.42	-38.99	PASS	-30 dBm/MHz	<55.62 GHz	H
1 GHz - 18 GHz	1.102	-58.37	12.92	-45.45	PASS	-30 dBm/MHz	<55.62 GHz	V
18 GHz - 26.5 GHz	26.1175	-71.42	24.31	-47.11	PASS	-30 dBm/MHz	<55.62 GHz	H
26.5 GHz - 40 GHz	38.839	-69.95	19.6	-50.35	PASS	-30 dBm/MHz	<55.62 GHz	H

Secondary Radiated Emission Strength 40 GHz - 220 GHz												
Frequency	Frequency (GHz)	SA Reading (dBm)	FS Loss(dB)	Horn Gain (dBi)	Mixer Loss (dB)	Cable Loss (dB)	1m to 3m Factor (dB)	EIRP (dBm)	Result	Limit		Ant. Pol.
40 GHz - 50 GHz	48.586	-92.967	66.17408579	22.7	0	6.12	9.54	-52.913	PASS	-30 dBm/MHz	~ 55.62GHz: -30dBm/MHz 55.62GHz - 57.00GHz: -26dBm/MHz 64.00GHz - 67.50GHz: -26dBm/MHz 67.5GHz ~: -30dBm/MHz	V
50 GHz - 55.62 GHz	55.151	-93.184	67.33106783	20.8	12.61	2.39	9.54	-41.193	PASS	-30 dBm/MHz		V
55.62 GHz - 57 GHz	56.814	-93.058	67.58910734	20.8	11.48	2.39	9.54	-41.939	PASS	-26 dBm/MHz		V
64 GHz - 67.5 GHz	64.93	-92.944	68.74890806	21.7	12.59	2.62	9.54	-40.225	PASS	-26 dBm/MHz		H
67.5 GHz - 75 GHz	68.483	-92.779	69.21165554	22	10.85	2.62	9.54	-41.637	PASS	-30 dBm/MHz		H
75 GHz - 90 GHz	76.528	-102.725	70.65478216	21.9	11.52	2.31	9.54	-49.68	PASS	-30 dBm/MHz		V
90 GHz - 140 GHz	134.41	-102.585	73.88262742	21.6	9.53	2.74	9.54	-47.572	PASS	-30 dBm/MHz		H
140 GHz - 220 GHz	152.21	-102.341	78.68800372	21.6	11.23	2.57	9.54	-40.993	PASS	-30 dBm/MHz		V

Occupied Bandwidth

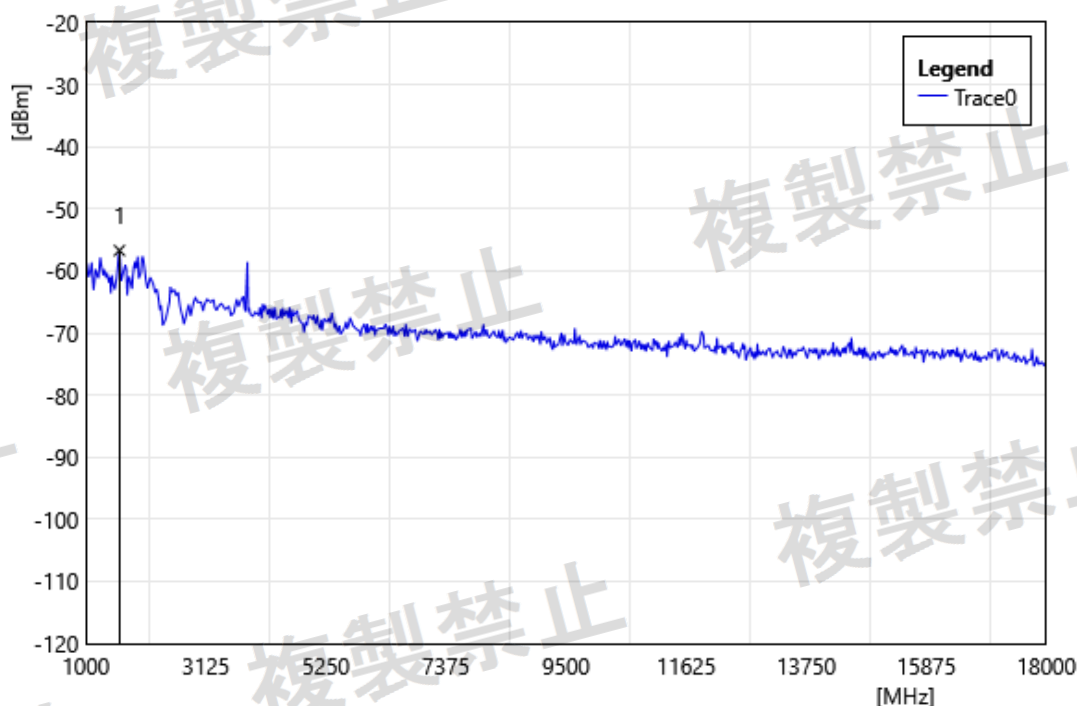


Transmission Time Restriction



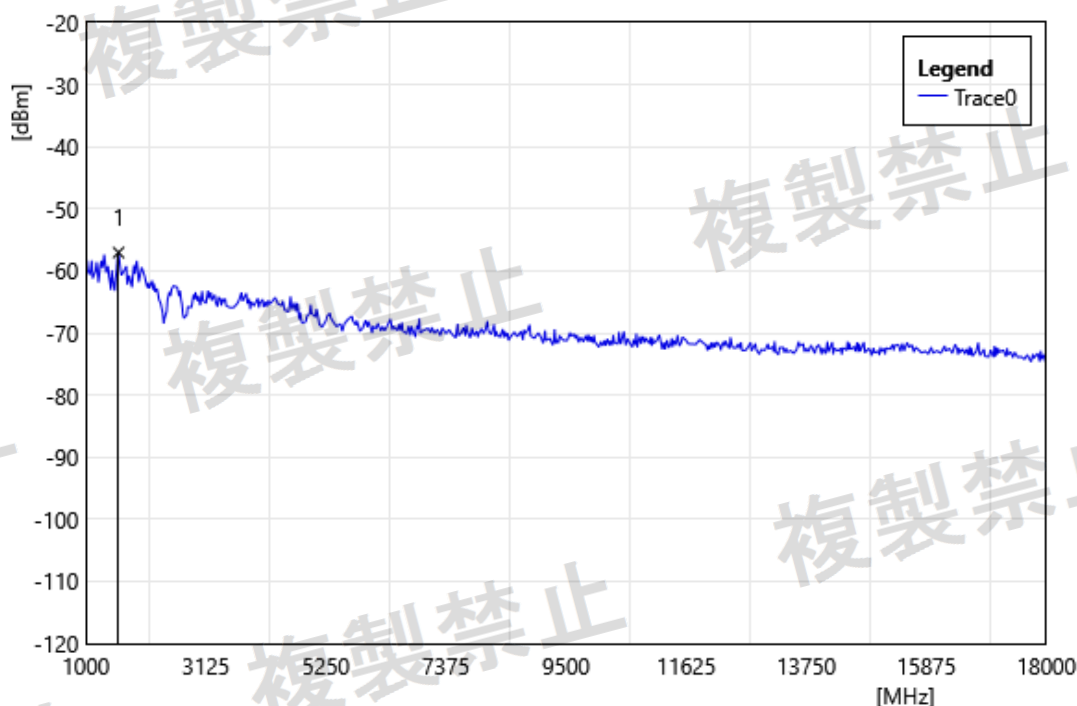
Unwanted Emission Strength

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_1G-18G		
Polarization:	Vertical		
Remark:			



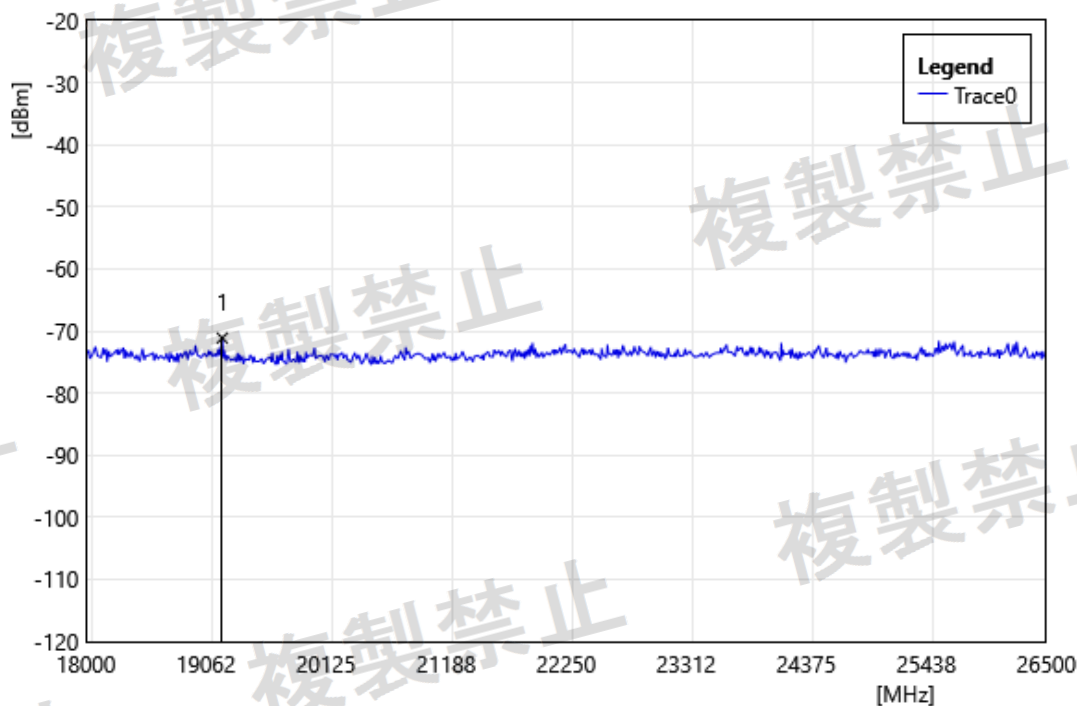
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1595.00	-56.71	0.00	-56.71	---	---	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_1G-18G		
Polarization:	Horizontal		
Remark:			



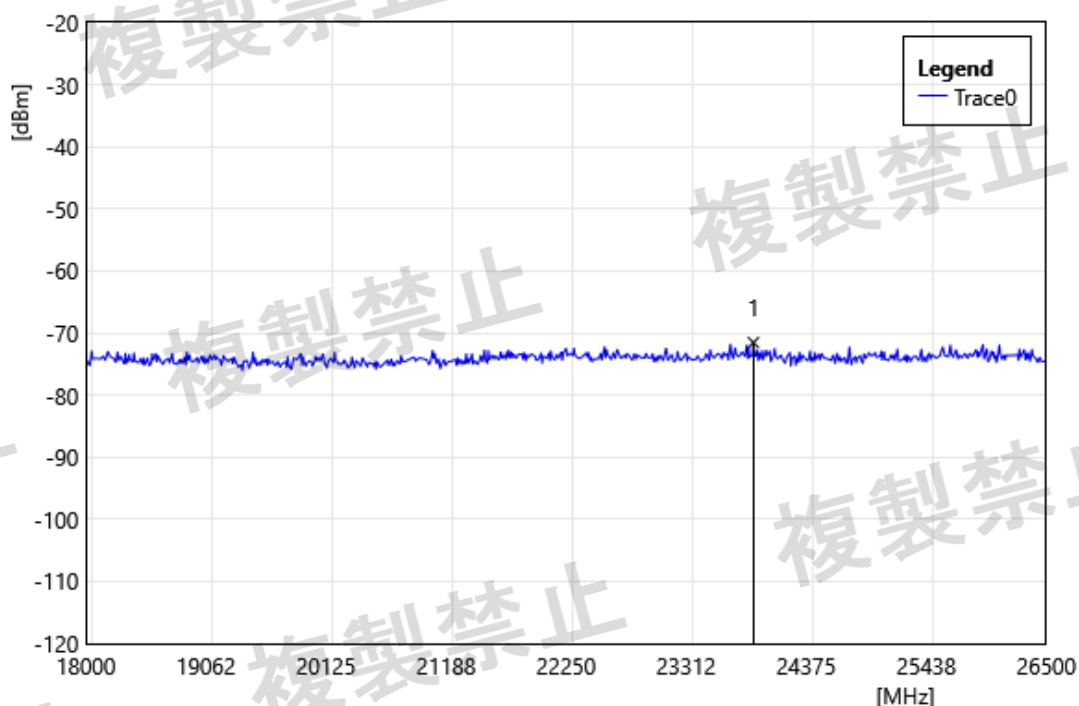
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1578.00	-57.03	0.00	-57.03	---	---	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_18G-26.5G		
Polarization:	Vertical		
Remark:			



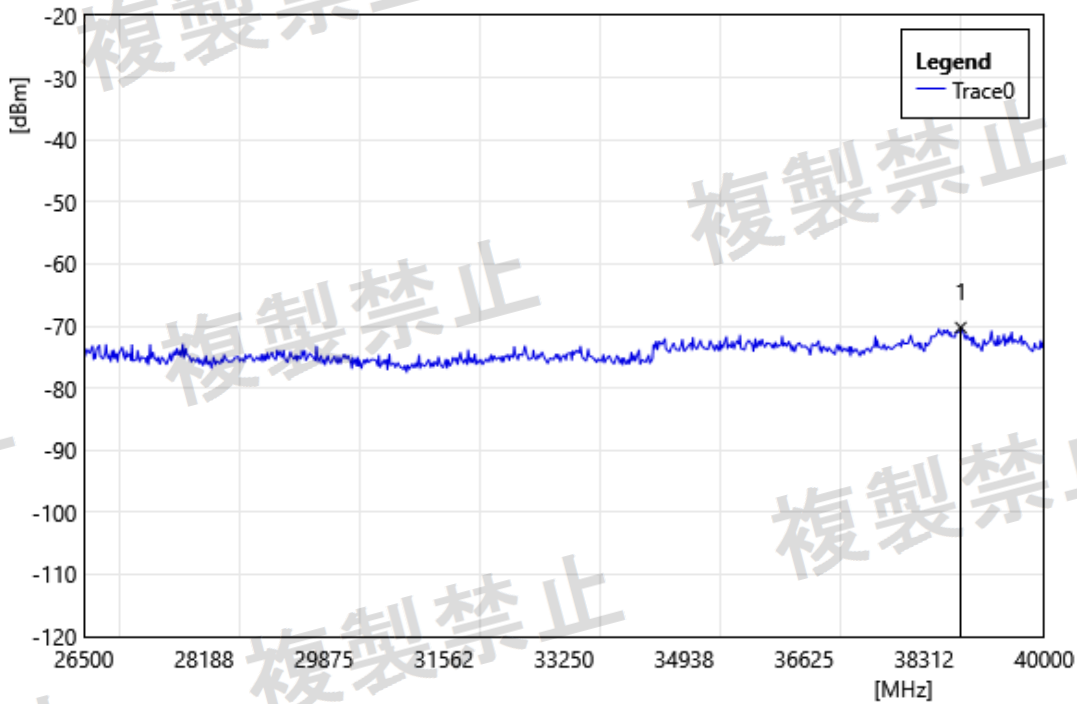
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	19207.00	-71.13	0.00	-71.13	---	---	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_18G-26.5G		
Polarization:	Horizontal		
Remark:			



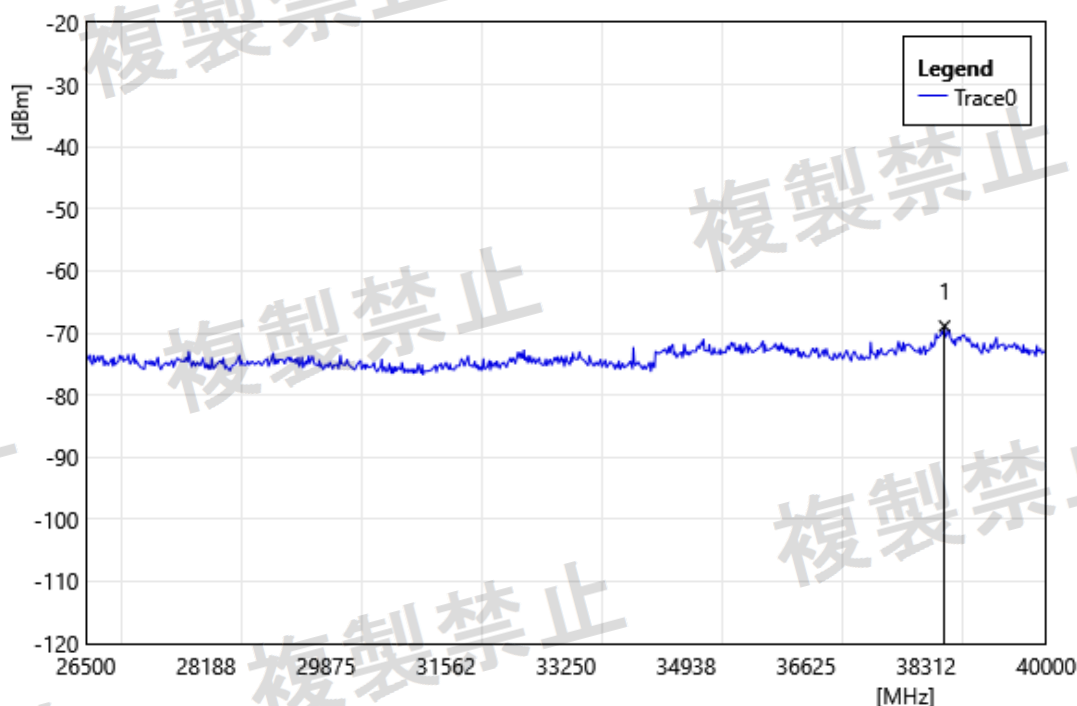
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	23907.50	-71.54	0.00	-71.54	---	---	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_26.5G-40G		
Polarization:	Vertical		
Remark:			



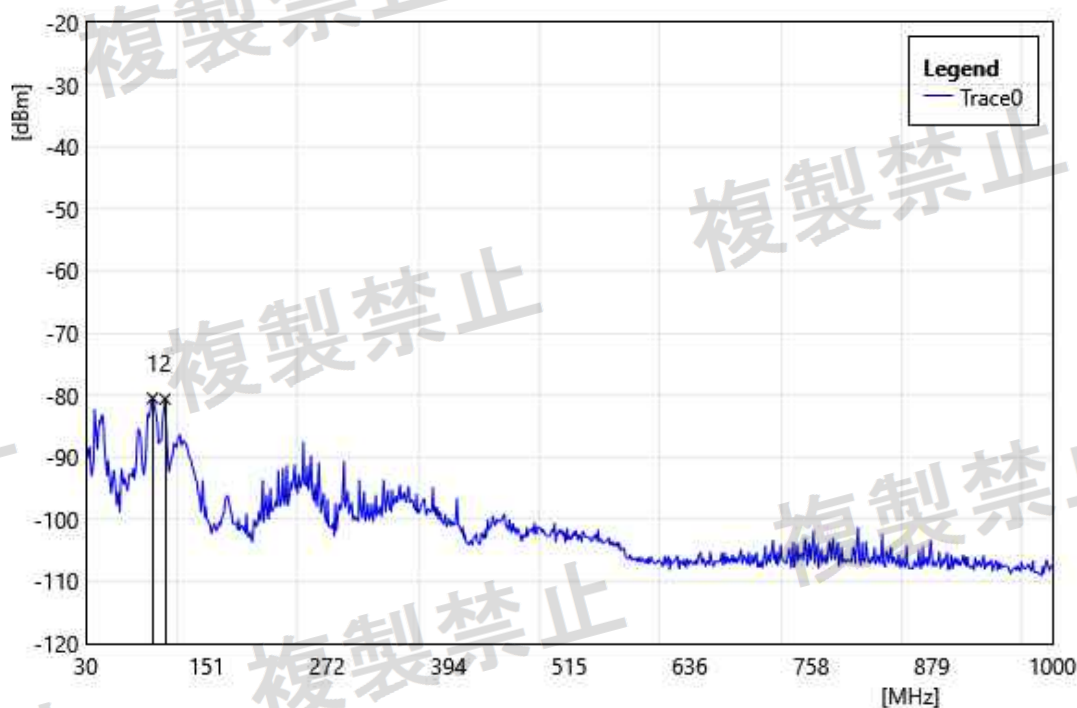
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	38825.50	-70.24	0.00	-70.24	---	---	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_26.5G-40G		
Polarization:	Horizontal		
Remark:			



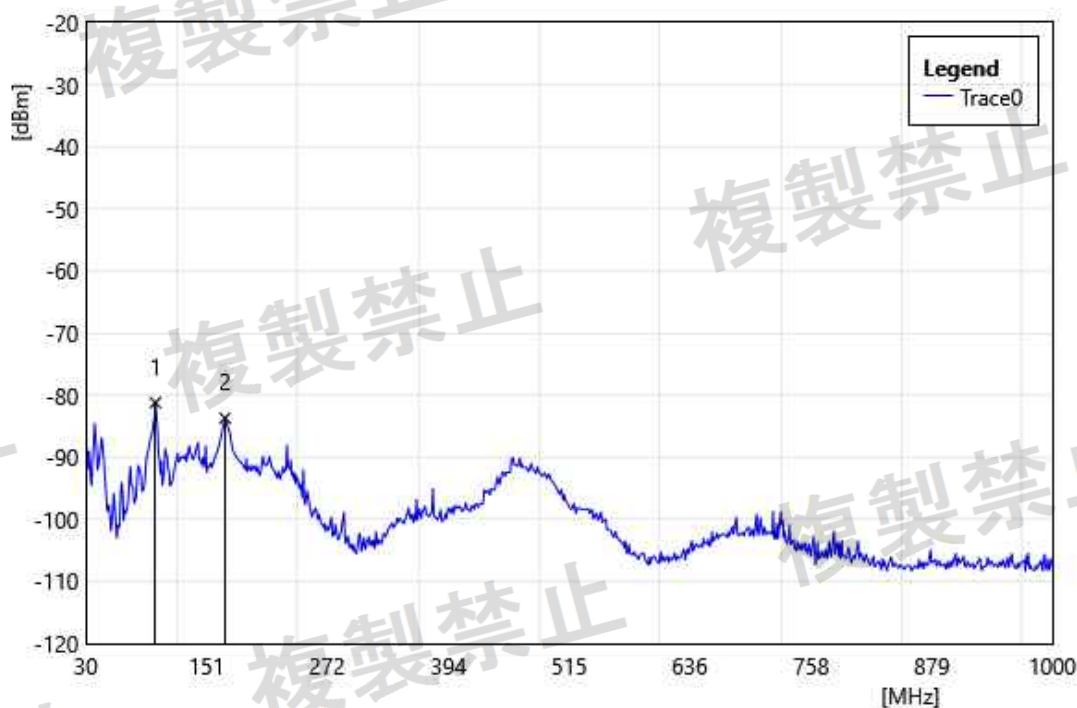
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	38569.00	-68.87	0.00	-68.87	---	---	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_30M-1G		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	96.93	-52.65	-27.85	-80.50	---	---	QP
2	109.54	-52.84	-27.80	-80.64	---	---	QP

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	TX_30M-1G		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	99.84	-53.35	-27.84	-81.19	---	---	QP
2	169.68	-56.19	-27.52	-83.71	---	---	QP

Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	40-50 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	40-50 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	50-55.62 GHz		



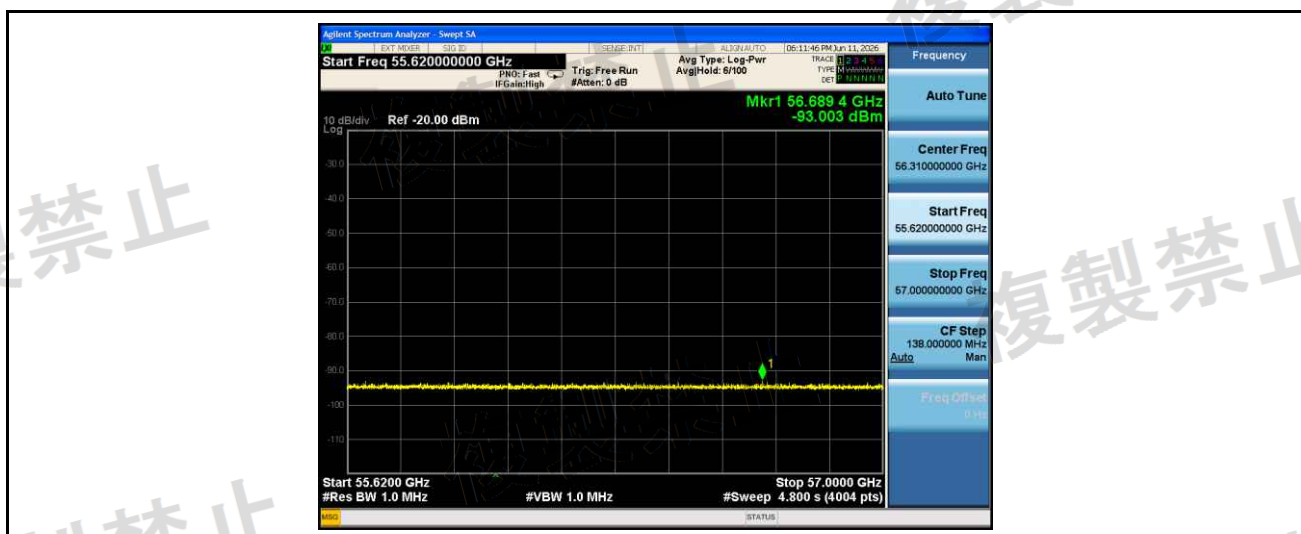
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	50-55.62 GHz		



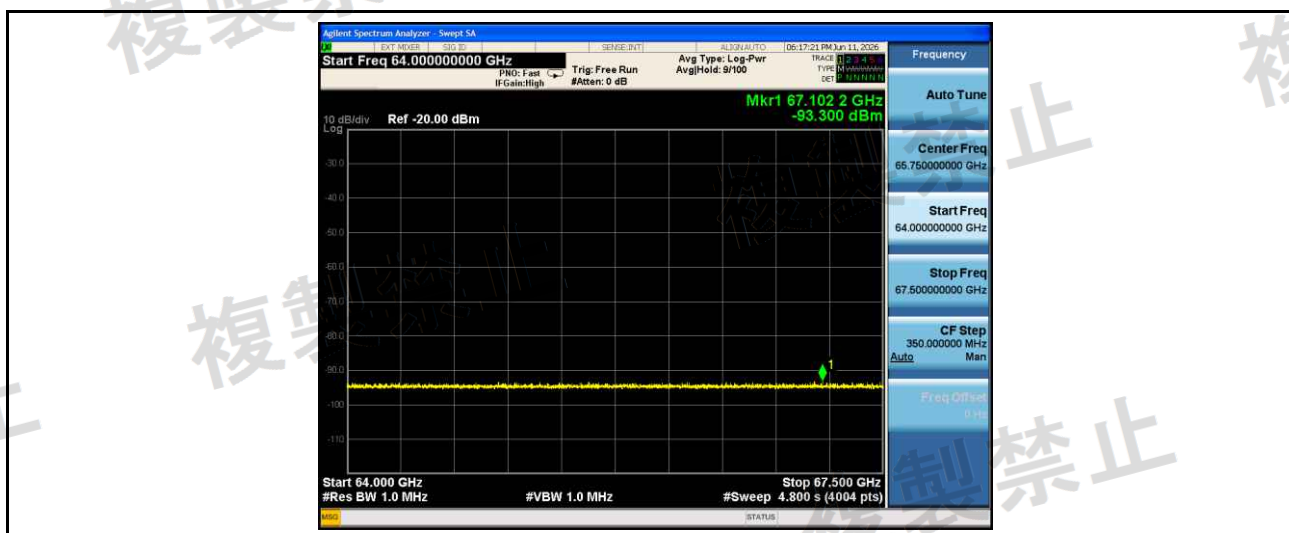
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	55.62-57 GHz		



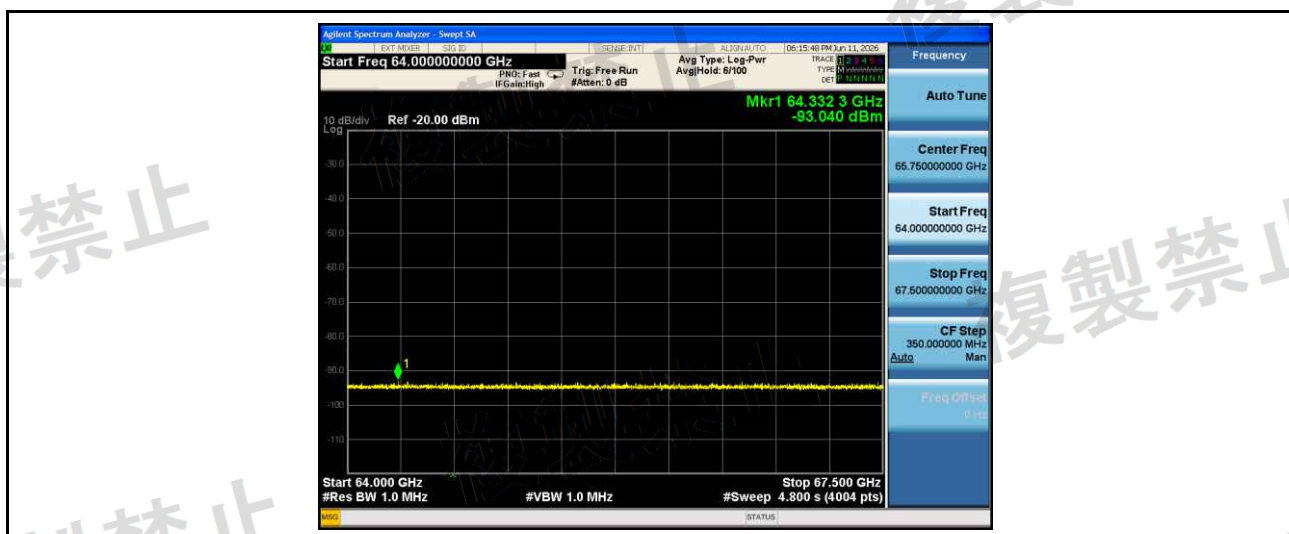
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	55.62-57 GHz		



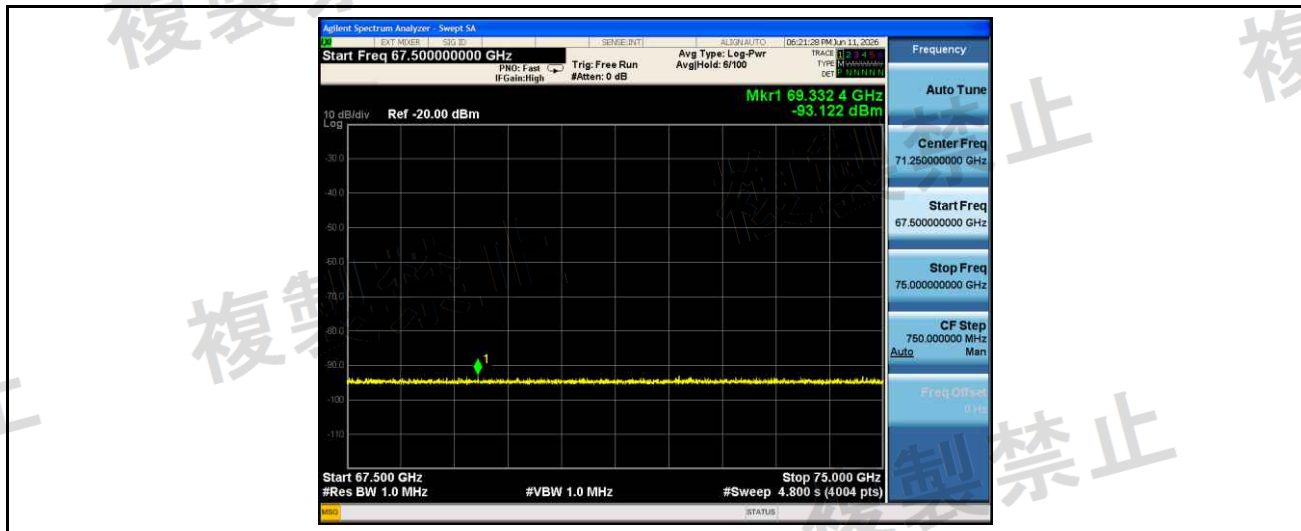
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	64-67.5 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	64-67.5 GHz		



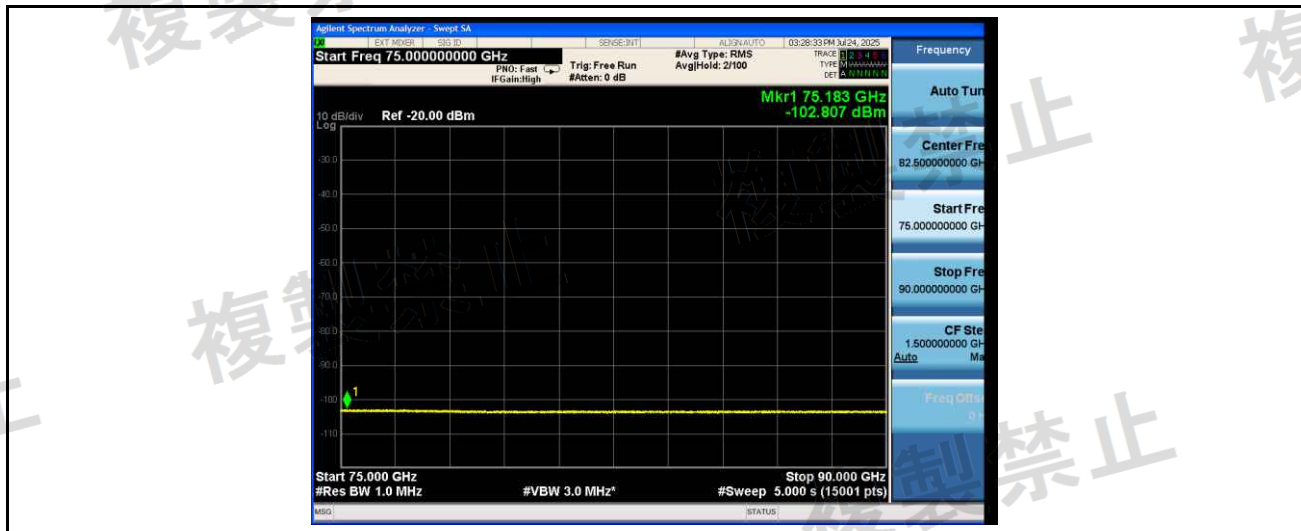
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	67.5-75 GHz		



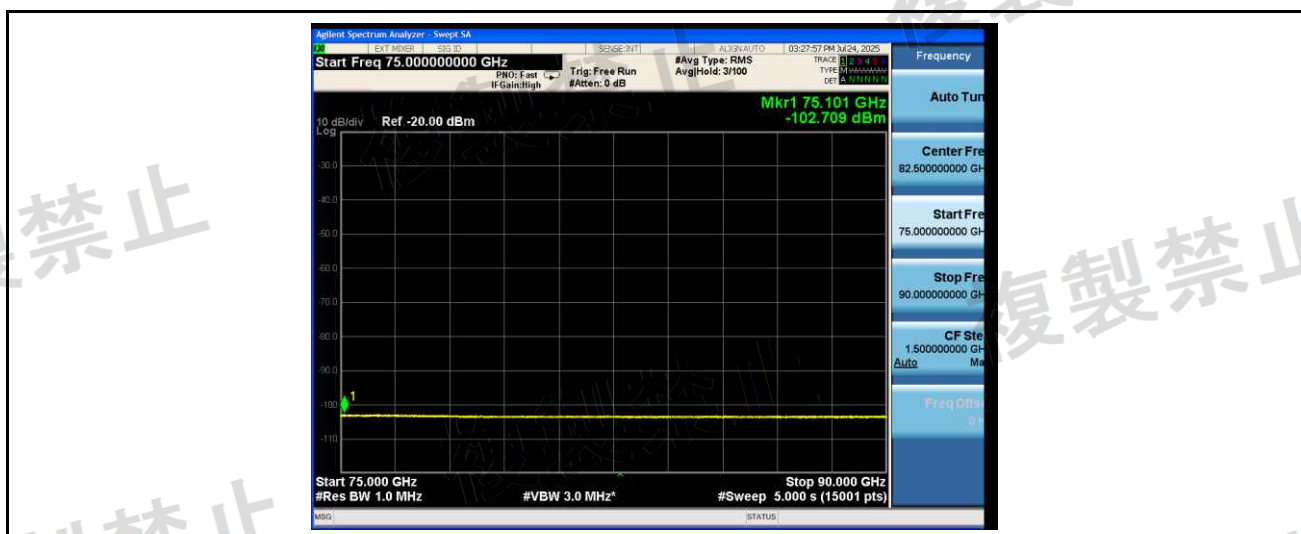
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	67.5-75 GHz		



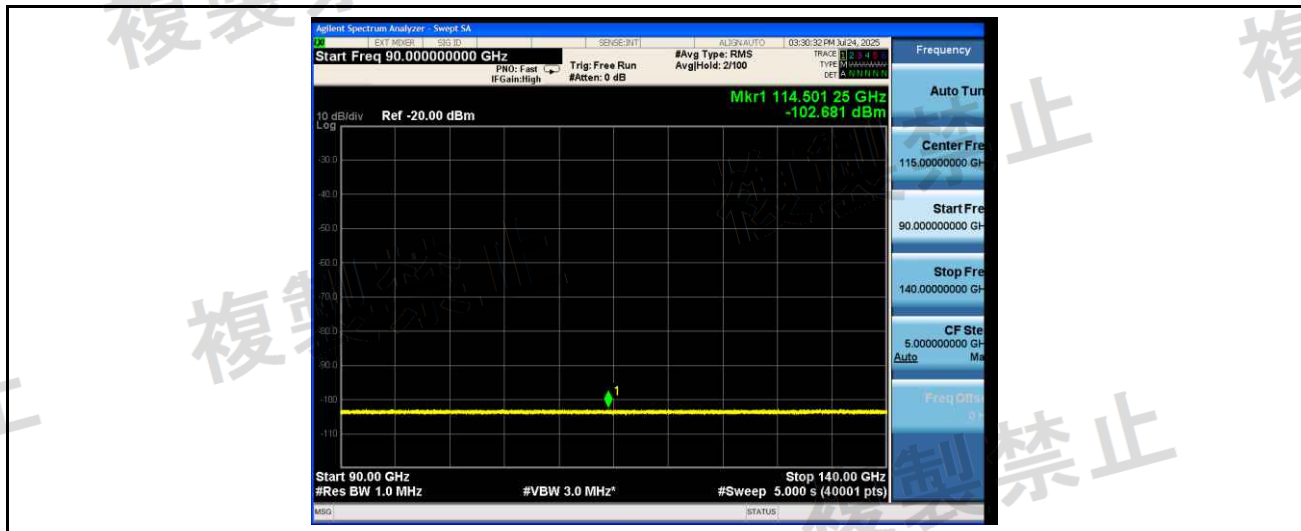
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	75-90 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	75-90 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	90-140 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	90-140 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Transmit Mode		
Remark:	140-220 GHz		

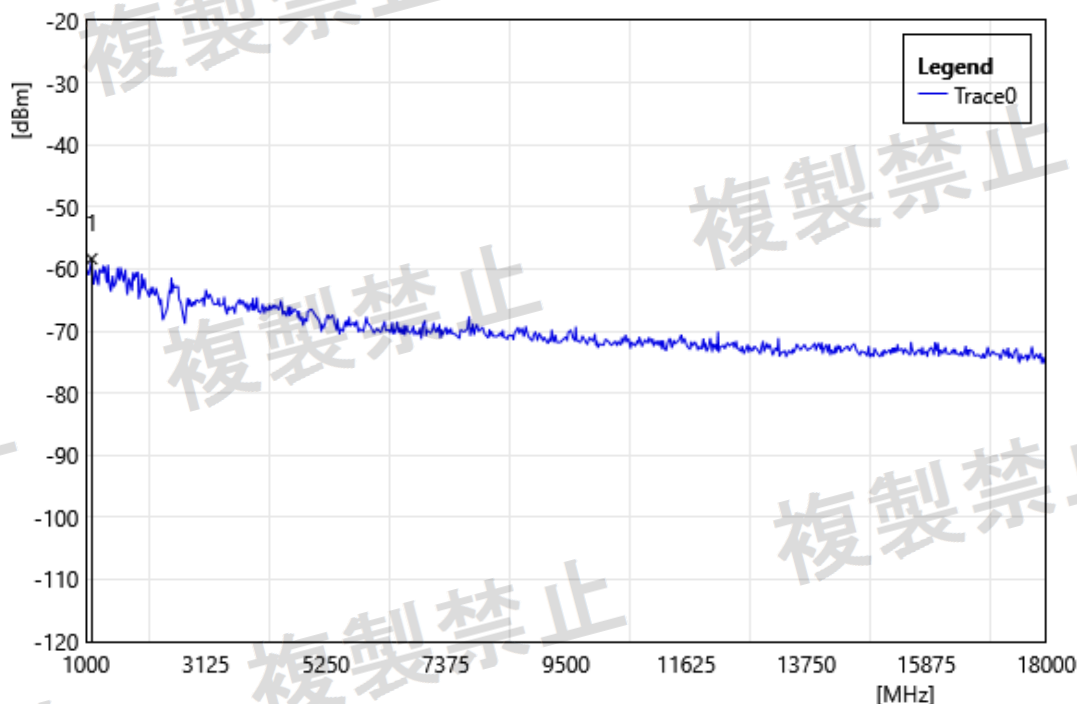


Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Transmit Mode		
Remark:	140-220 GHz		



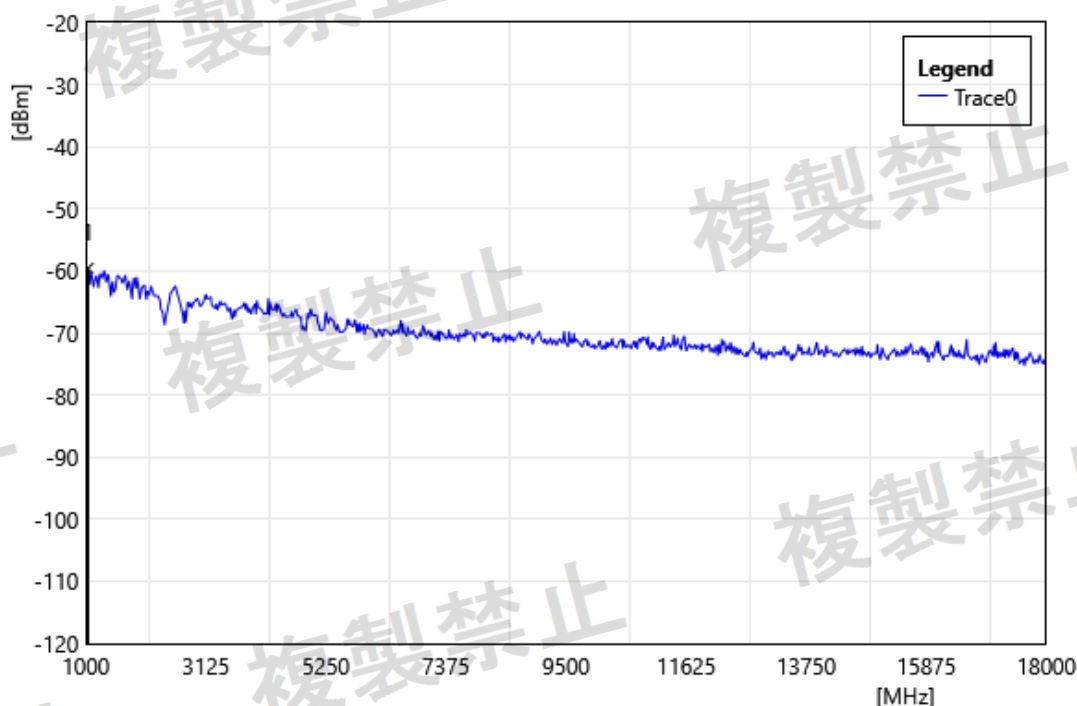
Secondarily Radiated Emission Strength

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_1G-18G		
Polarization:	Vertical		
Remark:			



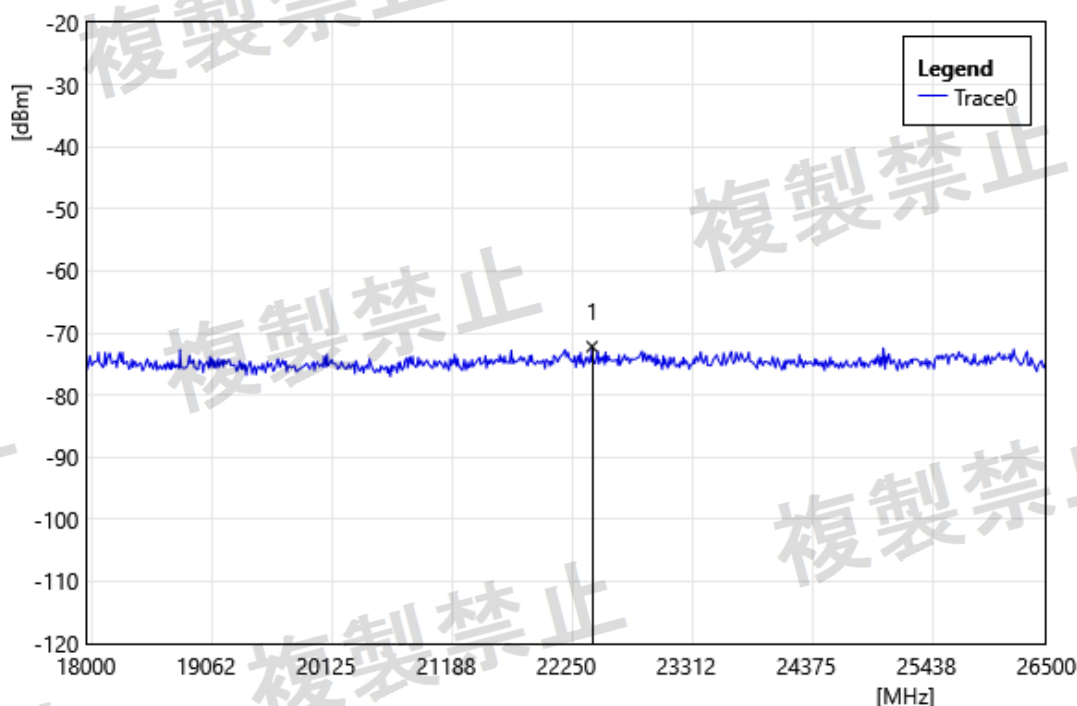
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1102.00	-58.37	0.00	-58.37	0.00	-58.37	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_1G-18G		
Polarization:	Horizontal		
Remark:			



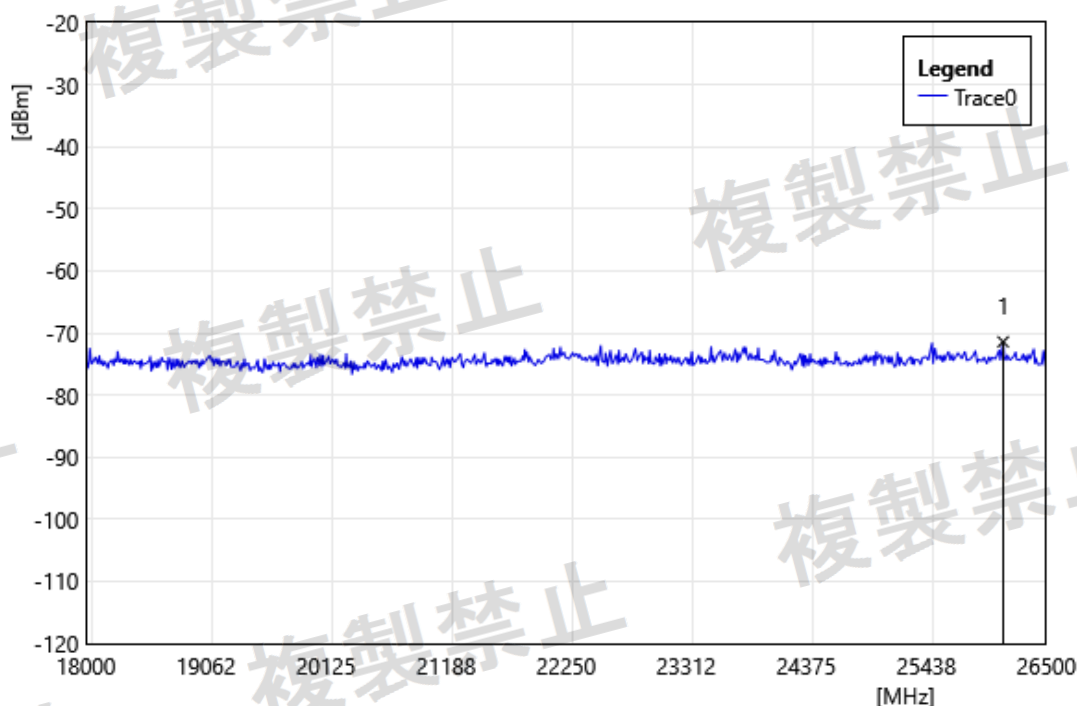
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	1034.00	-59.59	0.00	-59.59	0.00	-59.59	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_18G-26.5G		
Polarization:	Vertical		
Remark:			



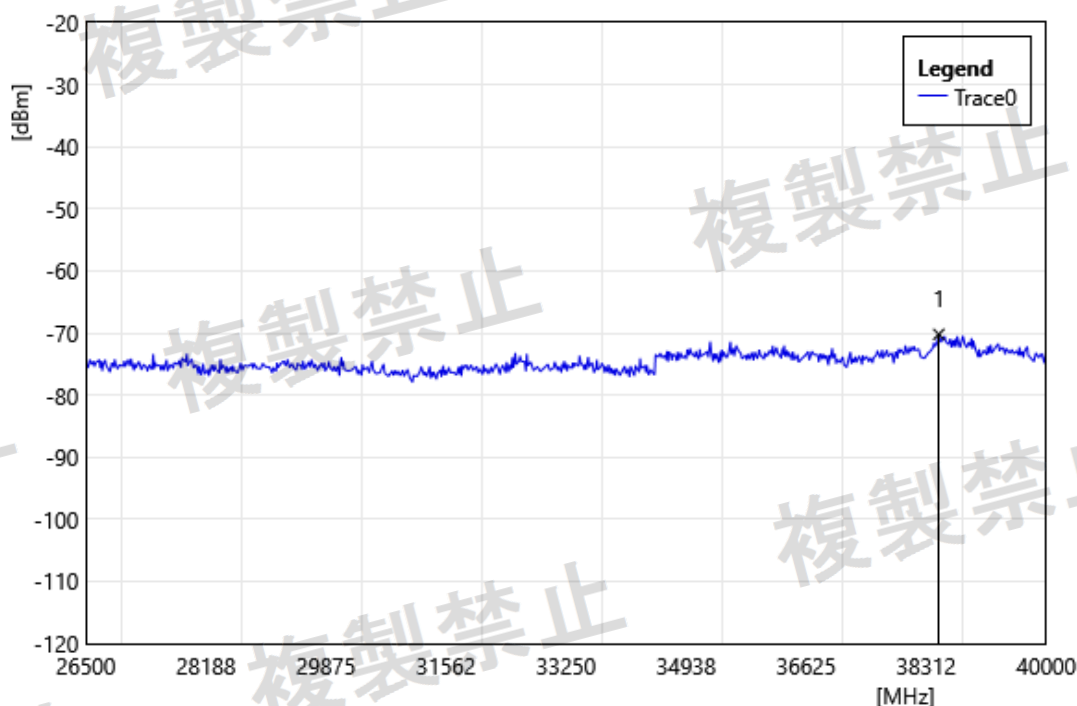
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	22479.50	-72.19	0.00	-72.19	0.00	-72.19	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_18G-26.5G		
Polarization:	Horizontal		
Remark:			



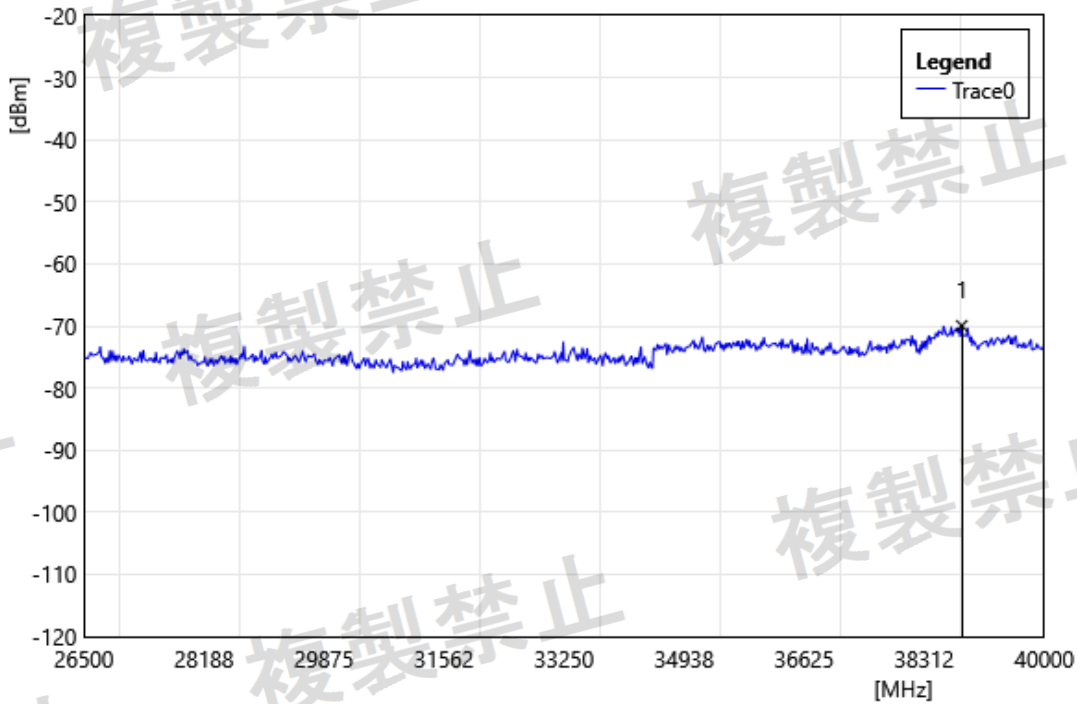
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	26117.50	-71.42	0.00	-71.42	0.00	-71.42	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_26.5G-40G		
Polarization:	Vertical		
Remark:			



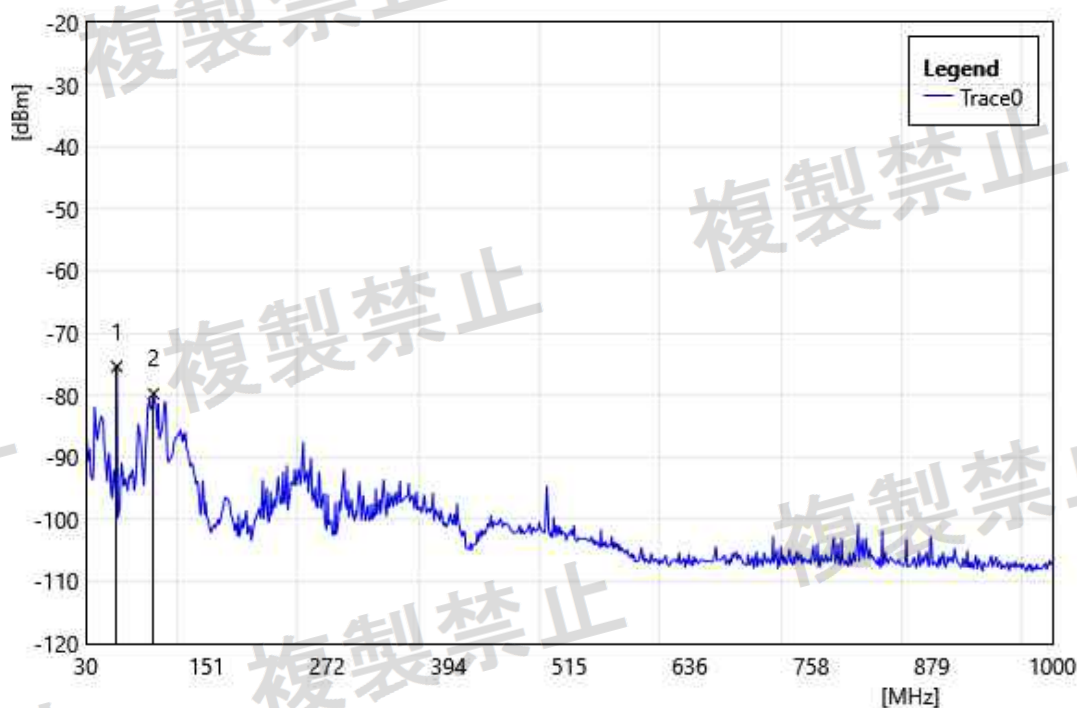
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	38488.00	-70.20	0.00	-70.20	0.00	-70.20	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_26.5G-40G		
Polarization:	Horizontal		
Remark:			



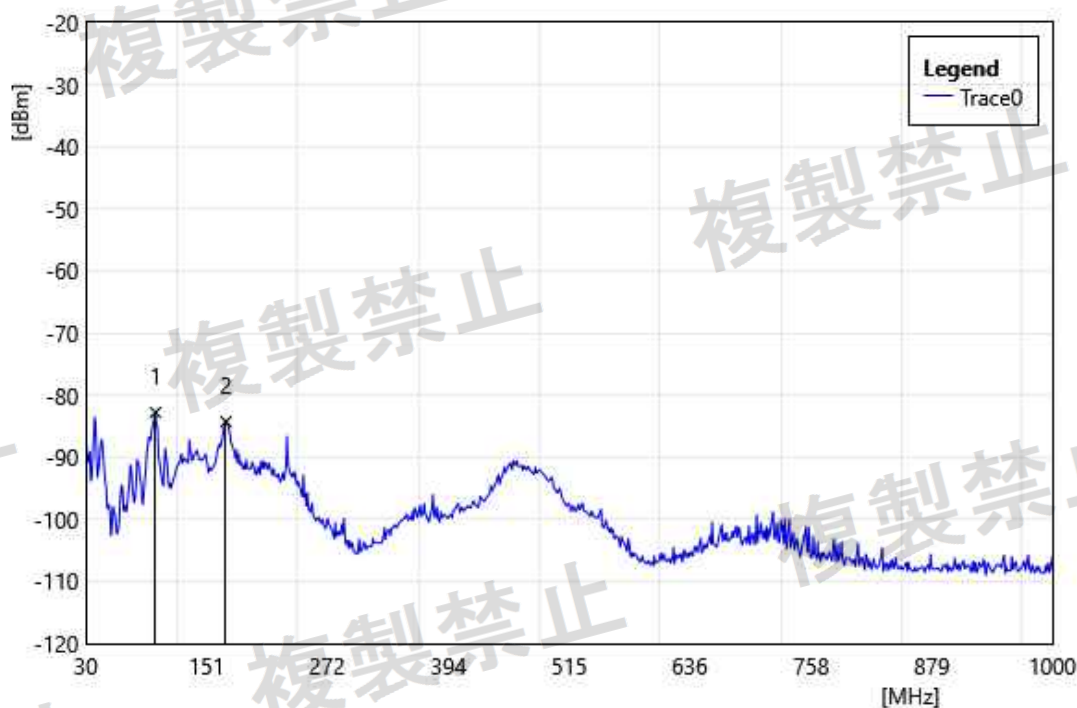
ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	38839.00	-69.95	0.00	-69.95	0.00	-69.95	RMS

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_30M-1G		
Polarization:	Vertical		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	61.04	-47.41	-27.99	-75.40	0.00	-75.40	QP
2	97.90	-51.93	-27.85	-79.78	0.00	-79.78	QP

Test Site:	966C Chamber	Standard:	EN305 550
Test Mode:	RX_30M-1G		
Polarization:	Horizontal		
Remark:			



ID	Frequency MHz	Reading dBm	Correct Factor dB/m	Result dBm	Limit dBm	Margin dB	Remark
1	99.84	-54.95	-27.84	-82.79	0.00	-82.79	QP
2	170.65	-56.75	-27.52	-84.27	0.00	-84.27	QP

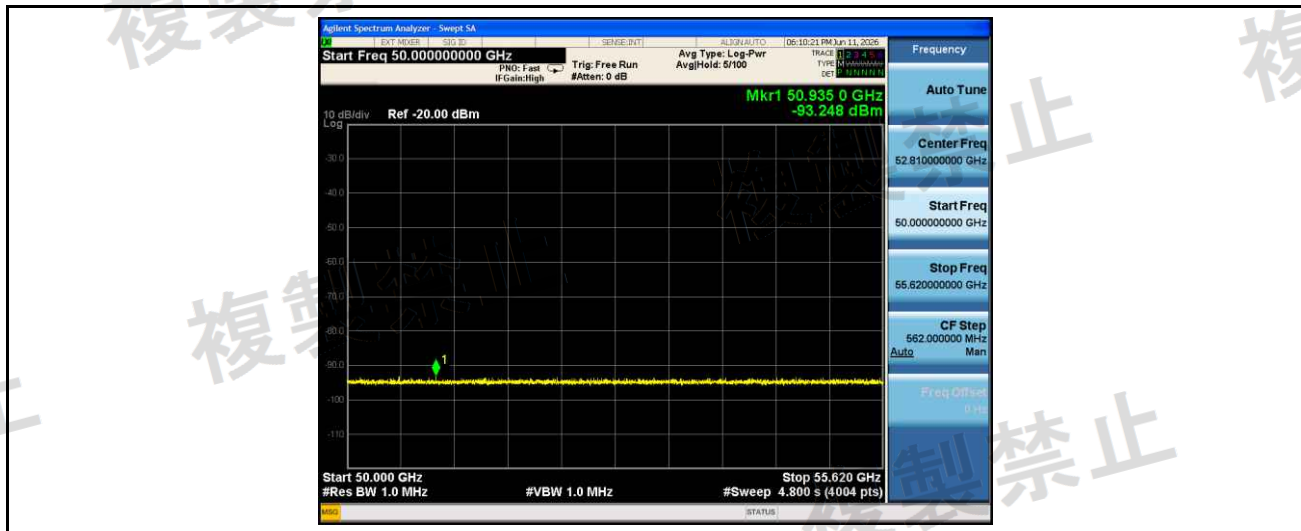
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	40-50 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	40-50 GHz		



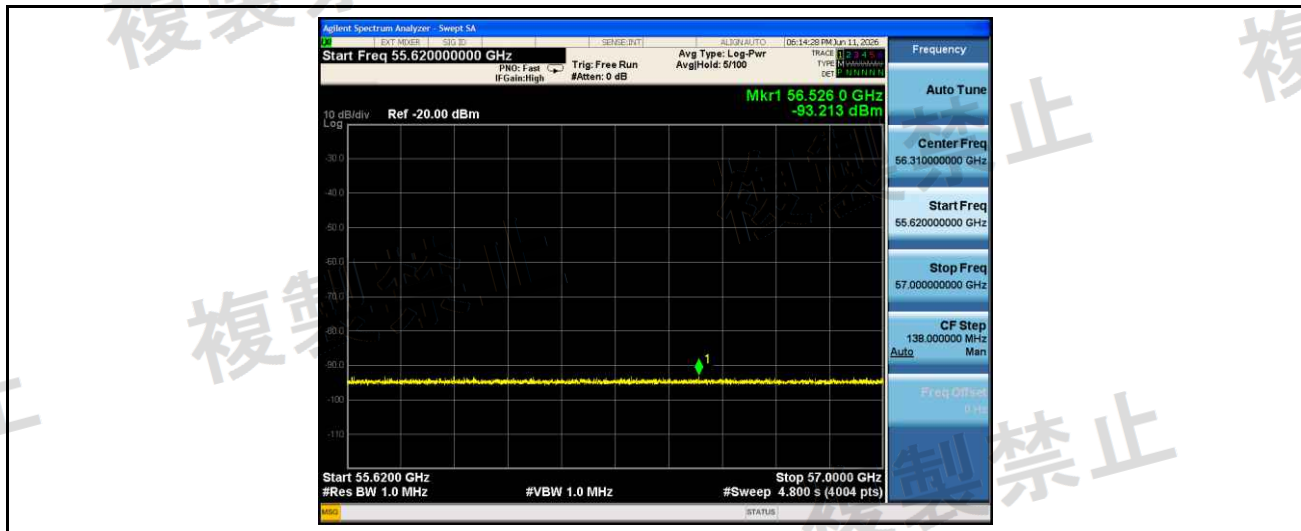
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	50-55.62 GHz		



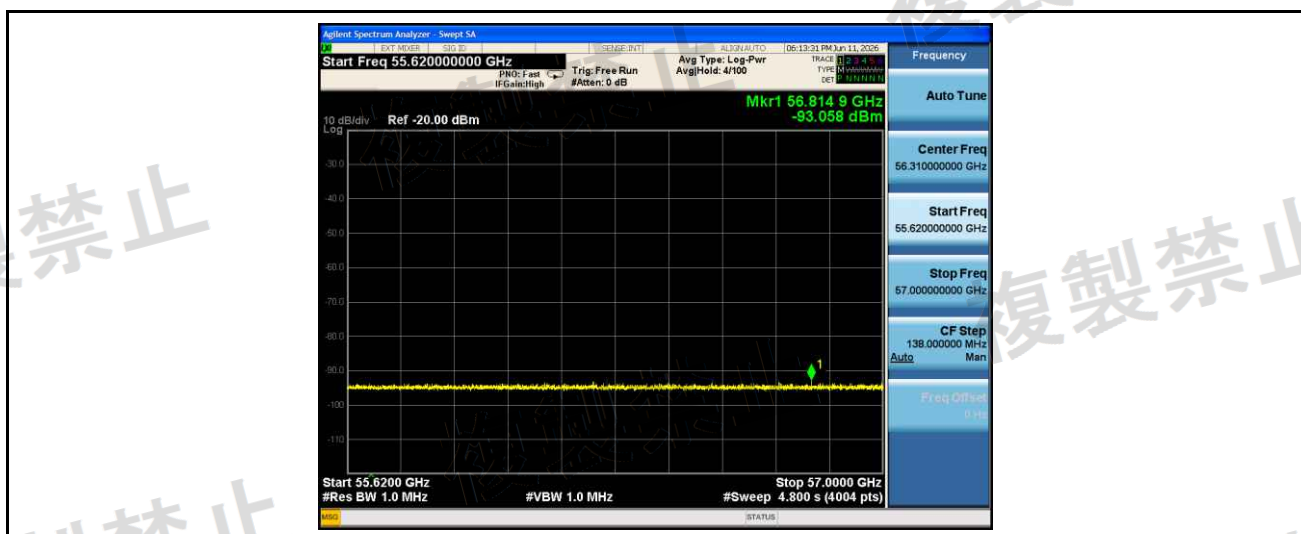
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	50-55.62 GHz		



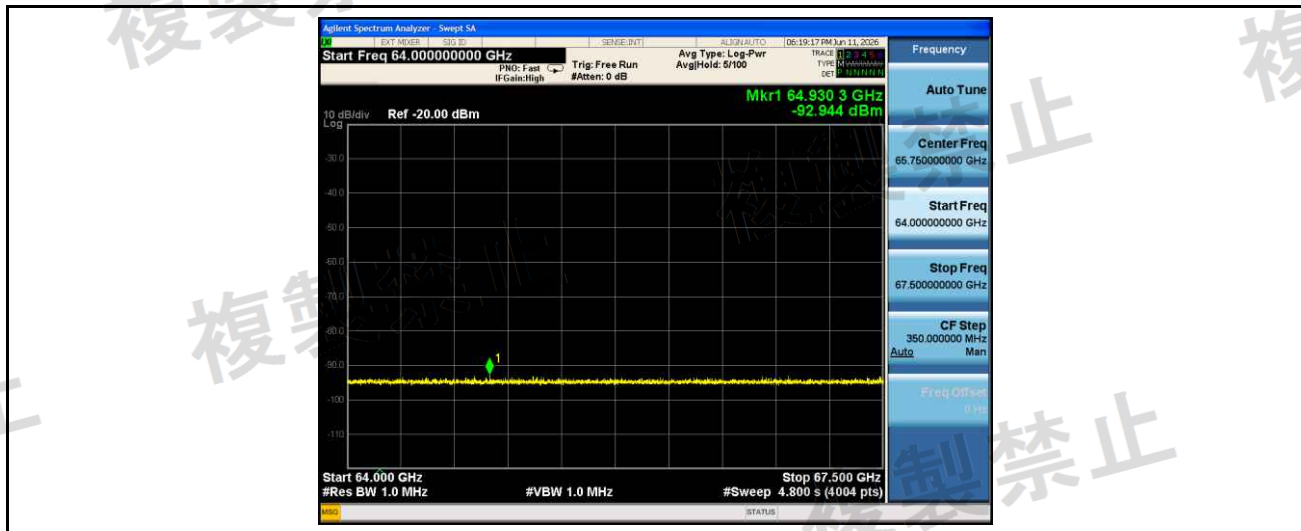
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	55.62-57 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	55.62-57 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	64-67.5 GHz		



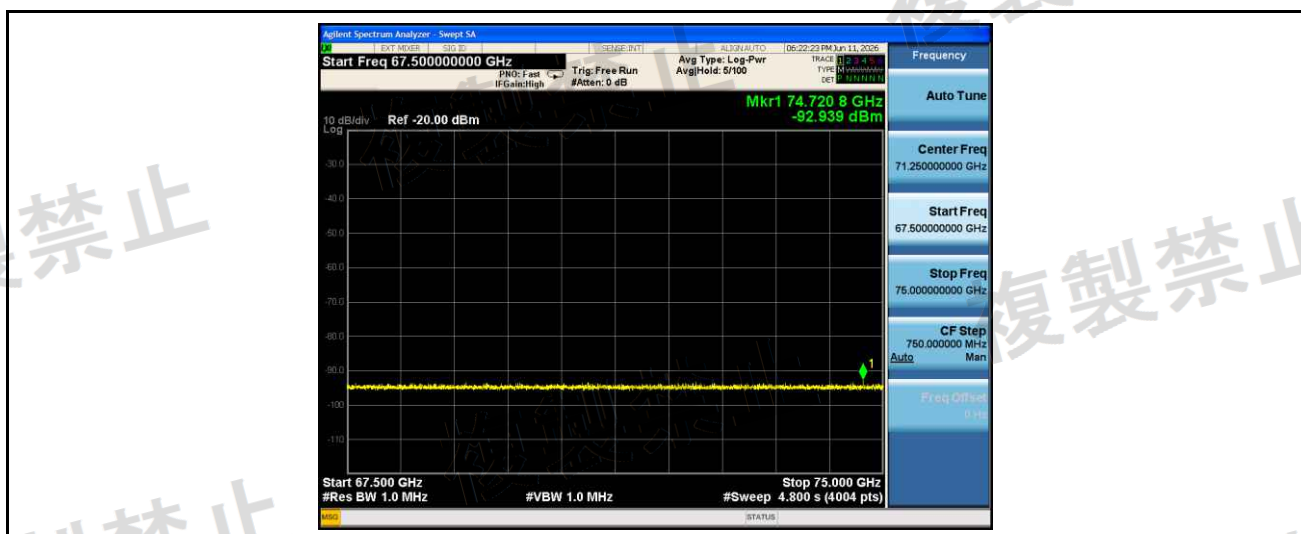
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	64-67.5 GHz		



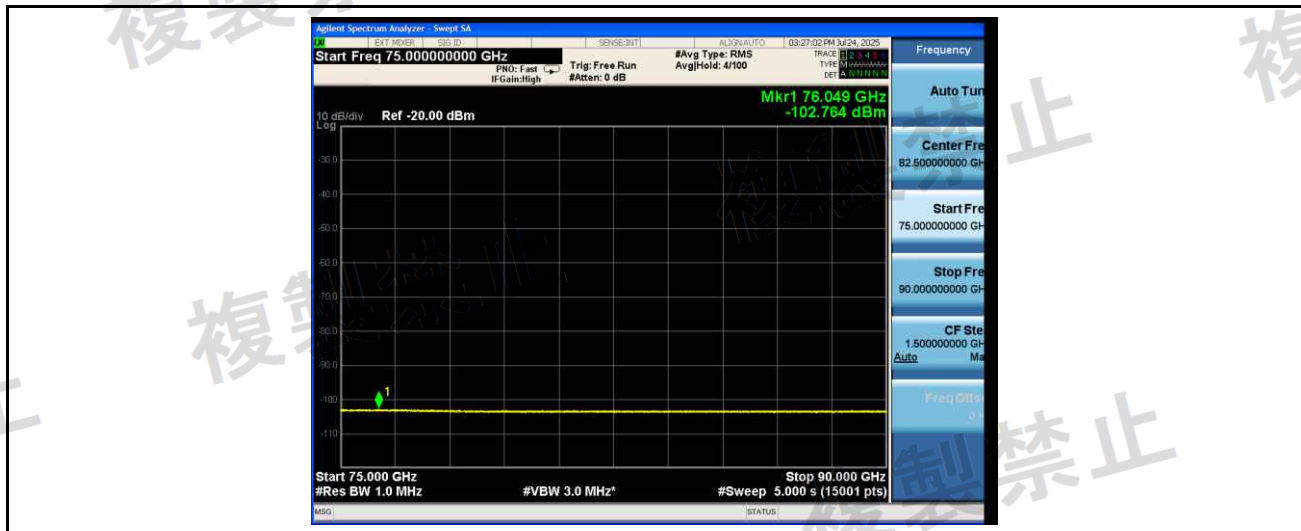
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	67.5-75 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	67.5-75 GHz		



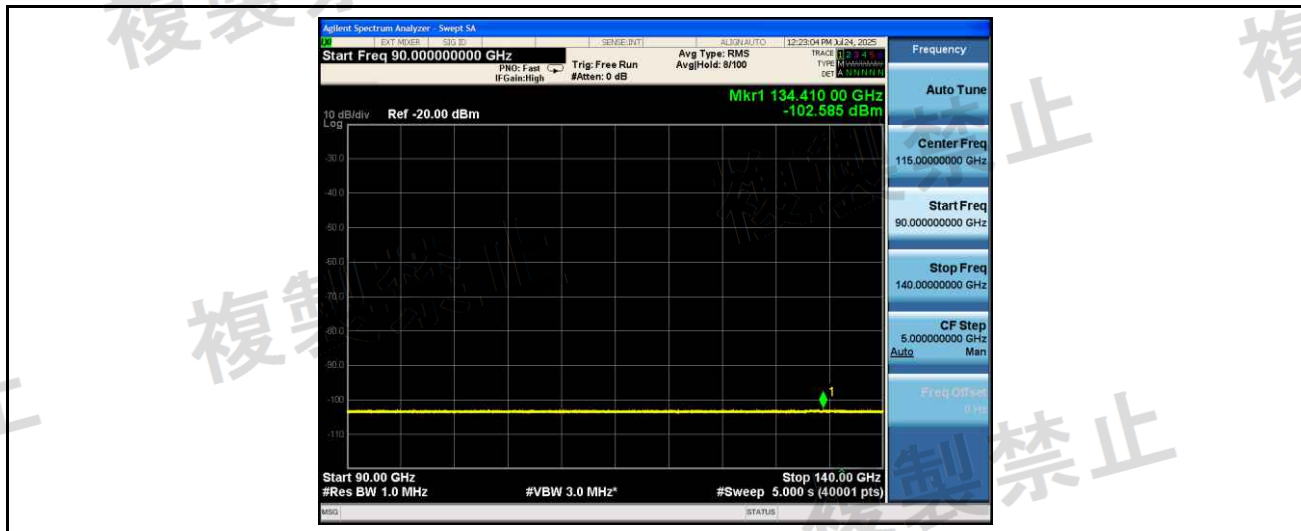
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	75-90 GHz		



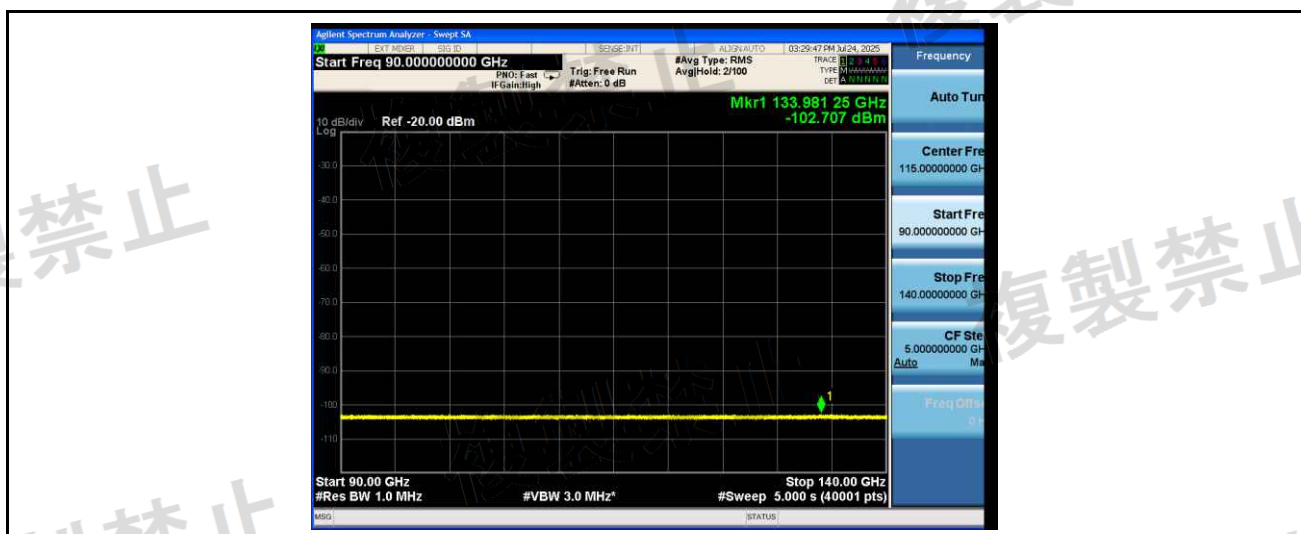
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	75-90 GHz		



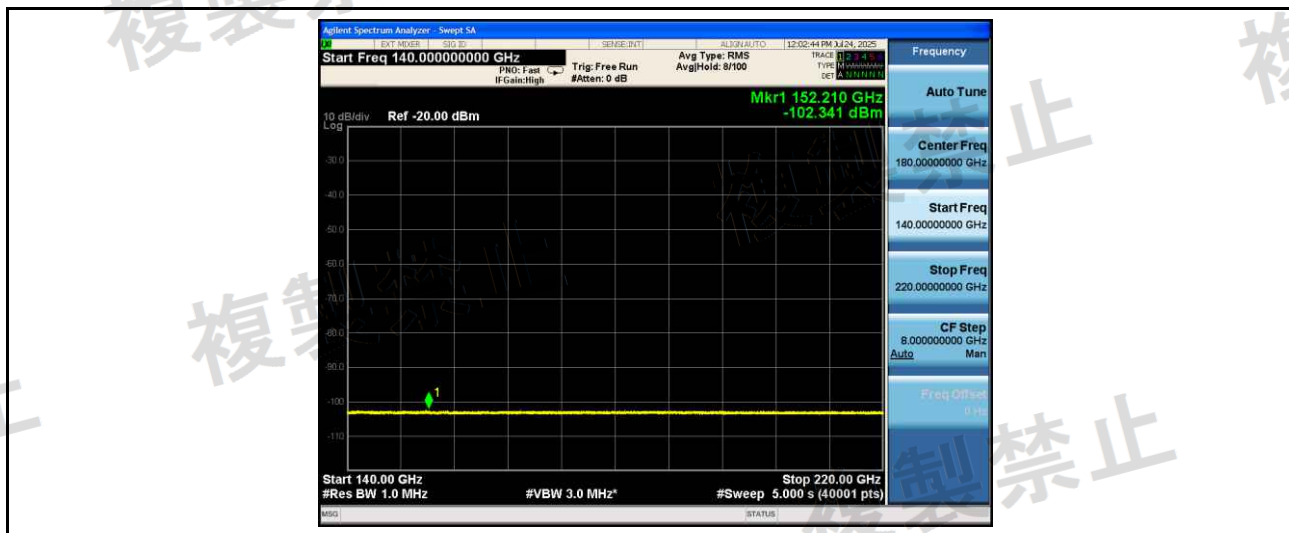
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	90-140 GHz		



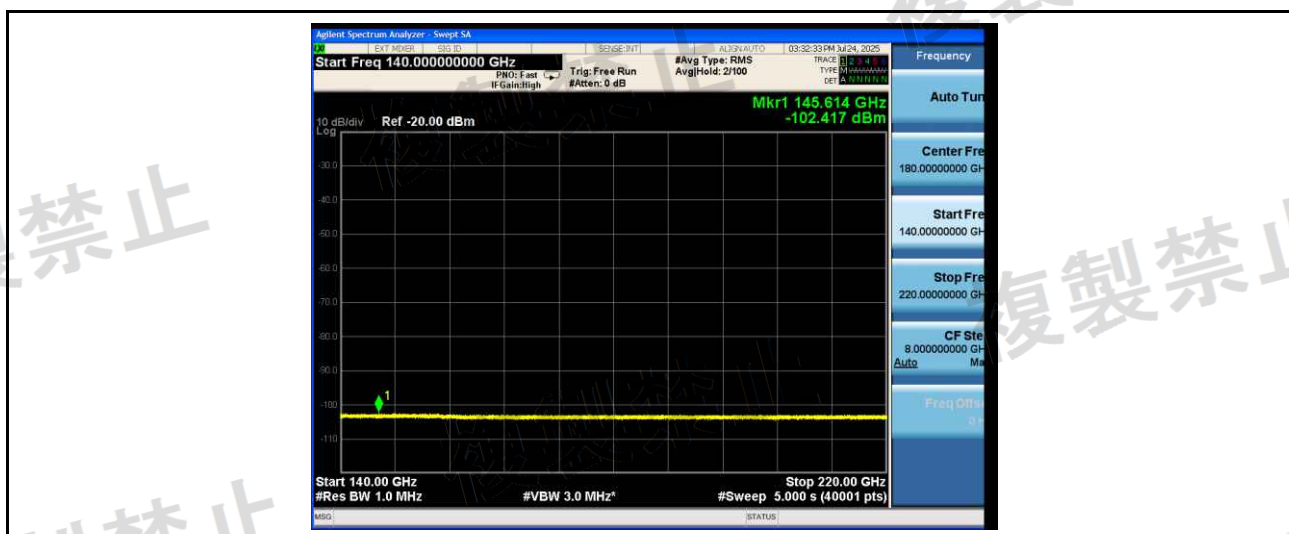
Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	90-140 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Horizontal		
Test Mode:	Receive mode		
Remark:	140-220 GHz		



Standard:	Article 2 Clause 1 Item 8	Test Site:	966 Chamber
Polarization:	Vertical		
Test Mode:	Receive mode		
Remark:	140-220 GHz		

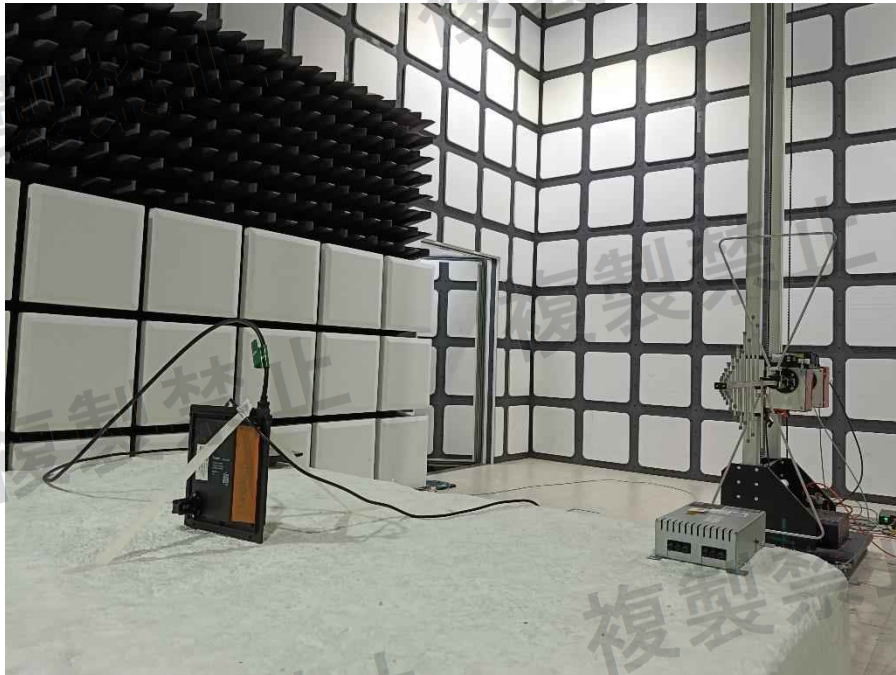


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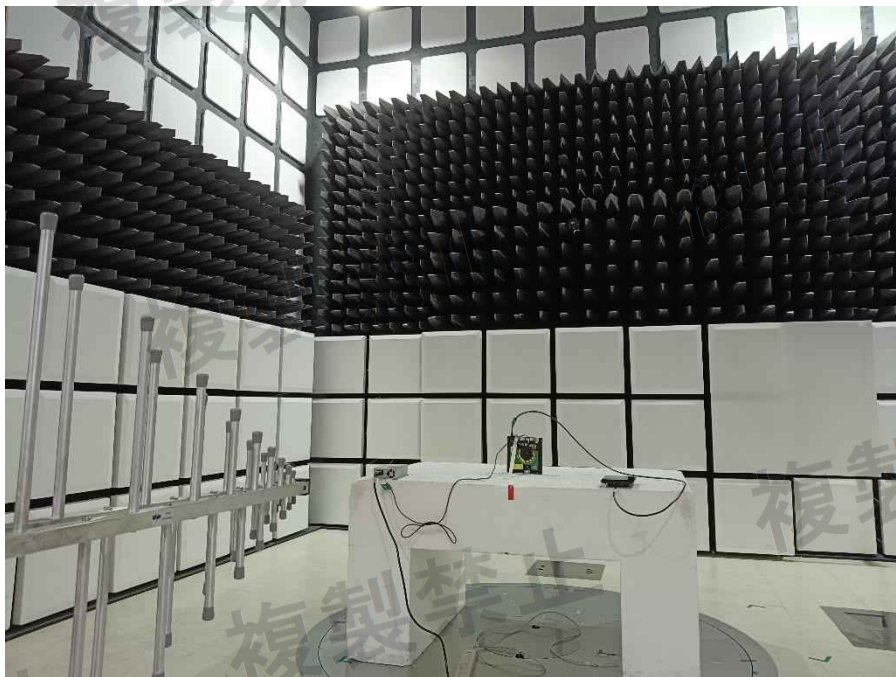
Appendix A. Test Setup Photographs

Radiated Emissions Test Configuration:

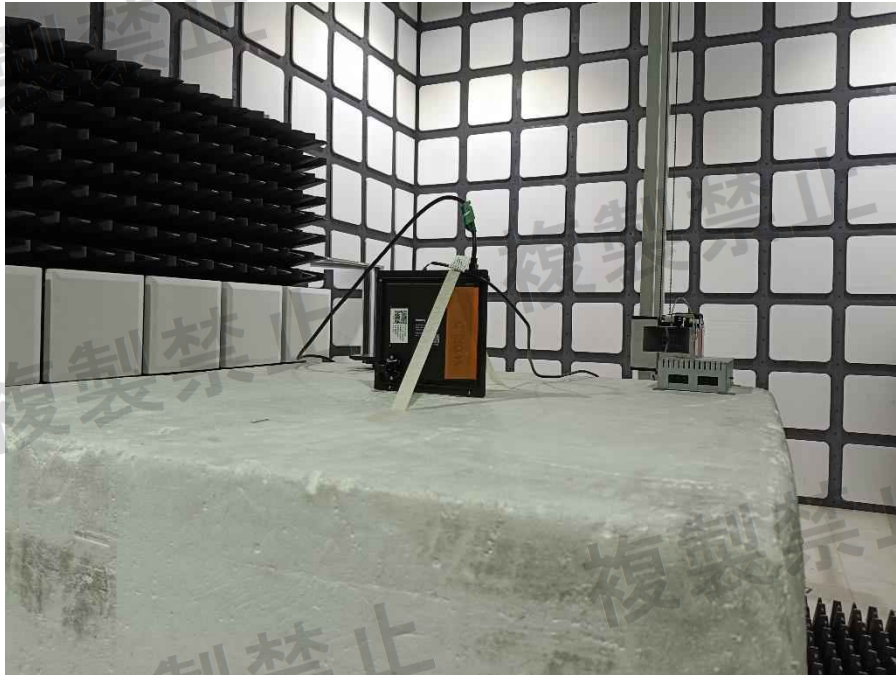
Below 1 GHz _ Front View



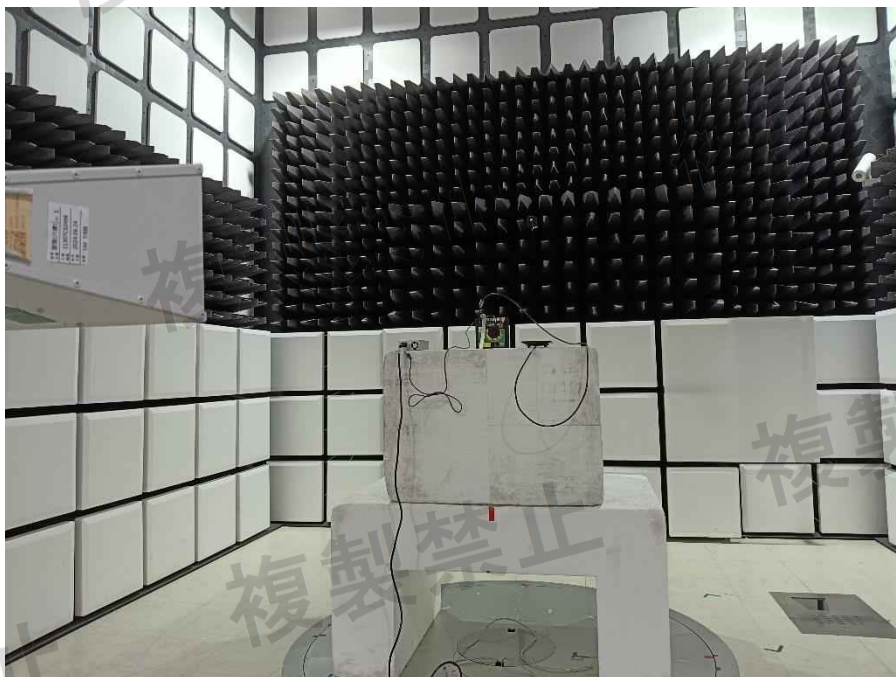
Below 1 GHz _ Rear View



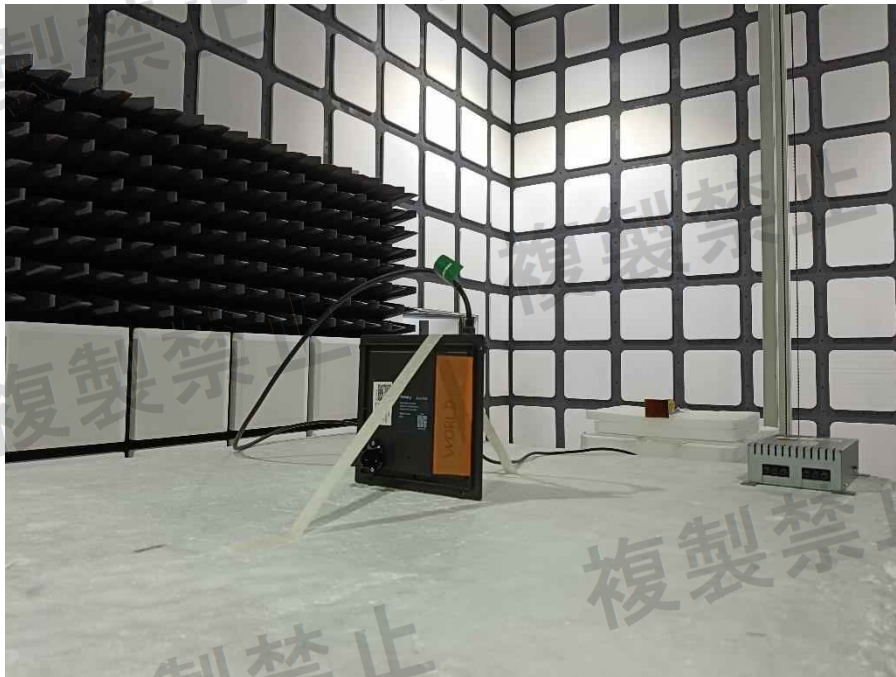
Above 1 GHz _ Front View



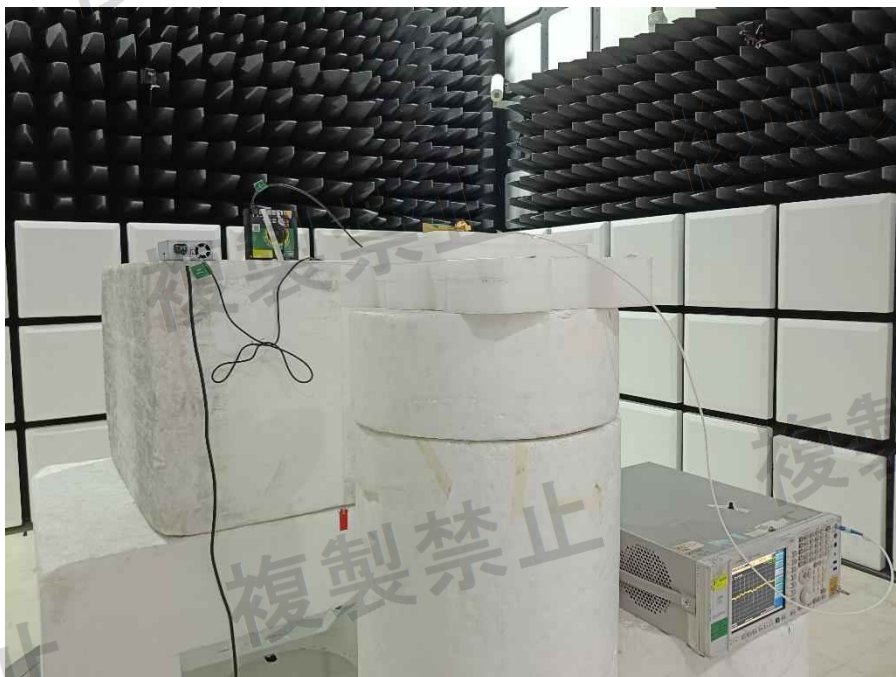
Above 1 GHz _ Rear View



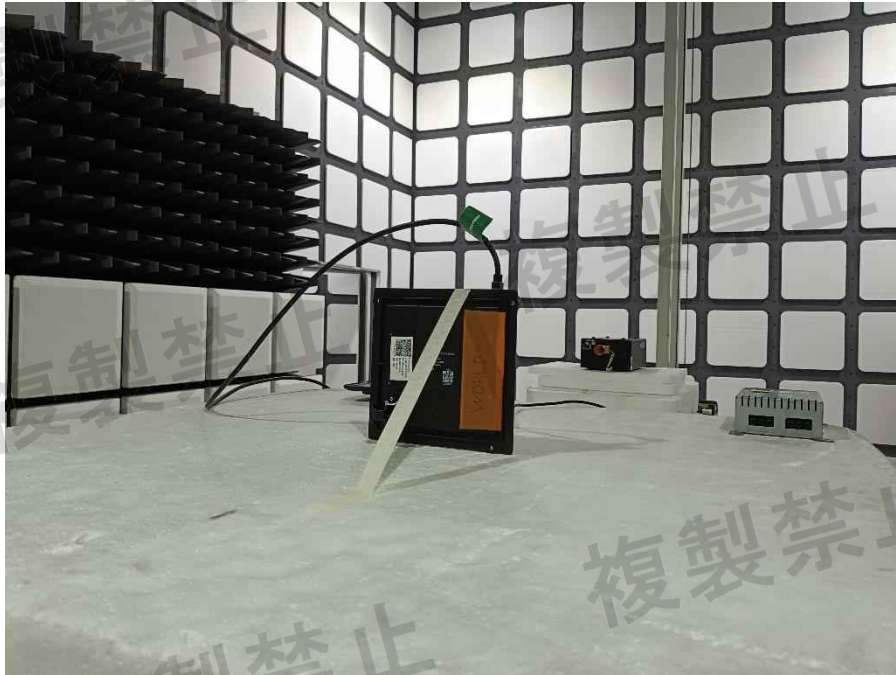
40 ~ 50 GHz _ Front View



40 ~ 50 GHz _ Rear View



Mixer _ Front View



Mixer _ Rear View

