



Project No.: TM-2601000366P
Report No.: TMWK2601000428KR

FCC ID: RAXRSD600

Page 1 / 64
Rev. 01

FCC 47 CFR PART 95 SUBPART M

TEST REPORT

For

Automotive 77G / 79G Hz Sider Defender Radar System

Model: RSD600-00

Trade Name: Arcadyan

Issued to
Arcadyan Technology Corporation
No.8, Sec. 2, Guangfu Rd., Hsinchu 30071, Taiwan

Issued by
Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan.
Issued Date: March 16, 2026

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	March 3, 2026	Initial Issue	ALL	Peggy Tsai
01	March 16, 2026	See the following Note Rev.(01)	P. 50-53	Peggy Tsai

Rev. (01)

1. Modify test data in section 8.2.

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION.....	4
2. EUT DESCRIPTION.....	5
3. TEST SUMMARY.....	6
4. TEST METHODOLOGY.....	7
4.1 EUT CONFIGURATION.....	7
4.2 EUT EXERCISE.....	7
4.3 GENERAL TEST PROCEDURES.....	7
4.4 DESCRIPTION OF TEST MODES.....	8
4.5 FAR FIELD CONDITION FOR FREQUENCY ABOVE 40GHZ.....	9
5. INSTRUMENT CALIBRATION.....	10
5.1 MEASURING INSTRUMENT CALIBRATION.....	10
5.2 MEASUREMENT EQUIPMENT USED.....	10
5.3 MEASUREMENT UNCERTAINTY.....	12
6. FACILITIES AND ACCREDITATIONS.....	13
6.1 FACILITIES.....	13
7. SETUP OF EQUIPMENT UNDER TEST.....	14
7.1 SETUP CONFIGURATION OF EUT.....	14
7.2 SUPPORT EQUIPMENT.....	14
7.3 TEST SETUP DIAGRAM(S).....	15
7.4 TEST PROGRAM.....	15
8. TEST REQUIREMENTS.....	16
8.1 EQUIVALENT ISOTROPICALLY RADIATED POWER (EIRP).....	16
8.2 SPURIOUS EMISSIONS.....	28
8.3 FREQUENCY STABILITY.....	54
8.4 OCCUPIED BANDWIDTH (99%).....	59
APPENDIX I PHOTOGRAPHS OF TEST SETUP.....	A-1
APPENDIX 1 - PHOTOGRAPHS OF EUT	

1. TEST RESULT CERTIFICATION

Applicant: Arcadyan Technology Corporation
No.8, Sec. 2, Guangfu Rd., Hsinchu 30071, Taiwan

Equipment Under Test: Automotive 77G / 79G Hz Sider Defender Radar System

Trade Name: Arcadyan

Model: RSD600-00

Date of Test: February 2 ~ 12, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 95 Subpart M	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

We hereby certify that:

All test results conform to above mentioned standards.

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2020 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 95.3367, 95.3379 and FCC KDB 653005 D01.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Sehni Hu

Sehni Hu
Supervisor

2. EUT DESCRIPTION

Product	Automotive 77G / 79G Hz Sider Defender Radar System
Trade Name	Arcadyan
Model Number	RSD600-00
Model Discrepancy	N/A
Received Date	January 26, 2026
Power Supply	Power from power supply. (DC 12V or 24V)
DC current	900mA
Frequency Range	77.3 ~78.2 GHz
Radar type	FMCW
Number of Channel	1
Antenna Designation	Type: Monopole Antenna Brand: Arcadyan Model: RS1000-2-ZZ R0A2 Gain: 13.58 dBi
EUT Serial #	RS1000-2_RF
H.W Version	14121320000J_R0A2
S.W Version	V01.00.01.00
Sweep Characteristics	Sweep Bandwidth: 910MHz (Total) Sweep Time: 50.8us

Remark:

1. The sample selected for test was production product and was provided by manufacturer.
2. Disclaimer: Antenna and Sweep Characteristic's information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. TEST SUMMARY

Report Section	FCC Standard Section	Test Item	Result
8.1	§2.1046 95.3367	Equivalent Isotropically Radiated Power (EIRP)	Pass
8.2	§2.1053 95.3379(a)	Field Strength of Spurious Radiation	Pass
8.3	§2.1055 95.3379(b)	Frequency stability	Pass
8.4	§2.1049	Occupied bandwidth (99%)	Pass

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2020, ANSI 63.26:2015 and FCC CFR 47 Part 95.3367, 95.3379, FCC KDB 653005 D01.

4.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

4.3 GENERAL TEST PROCEDURES

Radiated Emissions

The EUT is placed on a turn table, which is 1.5 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made.

4.4 DESCRIPTION OF TEST MODES

The EUT (model: RSD600-00) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by Power Supply(12V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by Power Supply(12V) Mode 2: EUT power by Power Supply(24V)
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report

4.5 FAR FIELD CONDITION FOR FREQUENCY ABOVE 40GHZ

The equipment under test was transmitting while connected to its integral antenna and is placed on a turn table. The measurement antenna is in the far field of the EUT per formula $2D^2/\lambda$ where D is the larger between the dimension of the measurement antenna and the transmitting antenna of the EUT.

In this case, "D" is the largest dimension of the measurement antenna. The EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

Model	Frequency Range (GH)	Largest Dimension of the Horn Antenna (mm)	Minimum Test Distance Rm (m)
RCHO19R	40~60	31	0.38
RCHO12R	60~90	21	0.26
RCHO08R	90~140	15	0.21
RCHO05R	140~220	10	0.15
FH-PP-325	220~325	8	0.14

5. INSTRUMENT CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

5.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Thermostat test room					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Constant Temperature Humidity Chamber	TERCHY	MHG-150LF	930619	2025-10-14	2026-10-13
PXA Signal Analyzer	Keysight	N9030B	MY62291089	2025-09-24	2026-09-23
DC Power Source	GWINSTEK	GPC-3030D	8070184	2025-09-15	2026-09-14
Cable	EMC	EMC104-35M-35M-2000	230203	2025-02-21	2026-02-20
SA EXTENSION MODULE	VDI	SAX WR12	SAX983	2023-06-14	2026-06-13
STANDARD GAIN HORN ANTENNA	CMI	RCHO12R	RCHO12R	2023-06-16	2026-06-15
Software	N/A				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.

3M 966 Chamber Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Signal Analyzer	Agilent	N9010A	MY52220817	2025-03-05	2026-03-04
Active Loop Antenna	SCHWARZBECK	FMZB 1513-60	1513-60-037	2025-12-16	2026-12-15
Thermo-Hygro Meter	HTC	HTC-1	HTC-D06	2025-05-26	2026-05-25
Bi-Log Antenna	Sunol Sciences	JB3	A030105&532	2025-06-26	2026-06-25
Preamplifier	EMEC	EM330	060609	2025-02-20	2026-02-19
Cable	Huber+Suhner	104PEA	20995+21000+182330	2025-08-06	2026-08-05
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2025-12-19	2026-12-18
Preamplifier	HP	8449B	3008A00965	2025-12-17	2026-12-16
Cable	EMCI	EMC101G	1508S0193+230206+250412	2026-01-14	2027-01-13
Pre-Amplifier	SCHWARZBECK	BBHA9170	1047	2025-12-09	2026-12-08
Horn Antenna	EMC	EMC184045SE	980860	2025-11-19	2026-11-18
Signal Generator	R&S	SMB100A	175936	2026-01-21	2027-01-20
STANDARD GAIN HORN ANTENNA	CMI	RCHO05R	RCHO05R	2023-06-22	2026-06-21
STANDARD GAIN HORN ANTENNA	CMI	RCHO08R	RCHO08R	2023-06-16	2026-06-15
STANDARD GAIN HORN ANTENNA	CMI	RCHO12R	RCHO12R	2023-06-16	2026-06-15
STANDARD GAIN HORN ANTENNA	CMI	RCHO19R	RCHO19R	2023-06-15	2026-06-14
STANDARD GAIN HORN ANTENNA	RADIOMETER PHYSICS	FH-PP-325	FH-PP-325	2023-06-22	2026-06-21
SA EXTENSION MODULE	VDI	SAX WR5.1	SAX995	2023-06-16	2026-06-15
SA EXTENSION MODULE	VDI	SAX WR8.0	SAX982	2023-06-14	2026-06-13
SA EXTENSION MODULE	VDI	SAX WR12	SAX983	2023-06-14	2026-06-13
SA EXTENSION MODULE	VDI	SAX WR19	SAX993	2023-06-14	2026-06-13
SA EXTENSION MODULE	VDI	SAX WR3.4	SAX996	2023-06-16	2026-06-15
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Software	e3 V9-210616c				

Remark:

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Required.

5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Radiated Emission_9kHz-30MHz	± 2.750 dB
Radiated Emission_30MHz-200MHz	± 3.874 dB
Radiated Emission_200MHz-1GHz	± 4.065 dB
Radiated Emission_1GHz-6GHz	± 5.594 dB
Radiated Emission_6GHz-18GHz	± 5.556 dB
Radiated Emission_18GHz-26GHz	± 3.165 dB
Radiated Emission_26GHz-40GHz	± 3.216 dB
Radiated Emission_40GHz-60GHz	±2.259 dB
Radiated Emission_60GHz-90GHz	±2.215 dB
Radiated Emission_90GHz-140GHz	±2.225 dB
Radiated Emission_140GHz-220GHz	±2.207 dB
Radiated Emission_220GHz-325GHz	±2.311 dB

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6. FACILITIES AND ACCREDITATIONS

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

Tel: 886-2-2299-9720 / Fax: 886-2-2299-9721

Remark:

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

7. SETUP OF EQUIPMENT UNDER TEST

7.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

7.2 SUPPORT EQUIPMENT

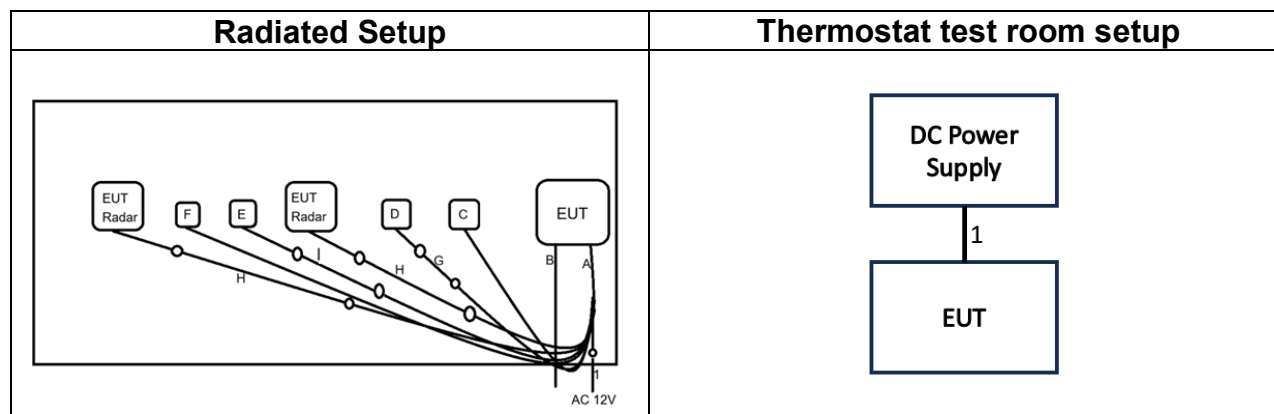
Radiated Support Equipment					
No.	Device Type	Brand	Model	Series No.	FCC ID
1	DC Cable	MISUMI	MCR3S-RE	N/A	N/A
A	ECU Wire Harness 24P	Arcadyan	120000014800J	N/A	N/A
B	ECU Wire Harness 8P	Arcadyan	120000008400J	N/A	N/A
C	Buzzer	Arcadyan	117100003801J	N/A	N/A
D	LED-L	Arcadyan	CAOZZ1000023J	N/A	N/A
E	LED-R	Arcadyan	CAOZZ1000022J	N/A	N/A
F	Button	Arcadyan	120000006400J	N/A	N/A
G	L-LED Cable 5M	Arcadyan	120000007200J	N/A	N/A
H	Radar Cable	Arcadyan	120000007500J	N/A	N/A
I	R-LED Cable 5M	Arcadyan	120000007100J	N/A	N/A

Thermostat test room Support Equipment					
No.	Device Type	Brand	Model	Series No.	FCC ID
1	DC Power Cable	MISUMI	MCR3S-RE	N/A	N/A

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7.3 TEST SETUP DIAGRAM(S)



7.4 TEST PROGRAM

This EUT powered on to set the frequency, modulation and power to allow continuous transmission of the sample.

For power setting: the default value.

8. TEST REQUIREMENTS

8.1 EQUIVALENT ISOTROPICALLY RADIATED POWER (EIRP)

LIMIT

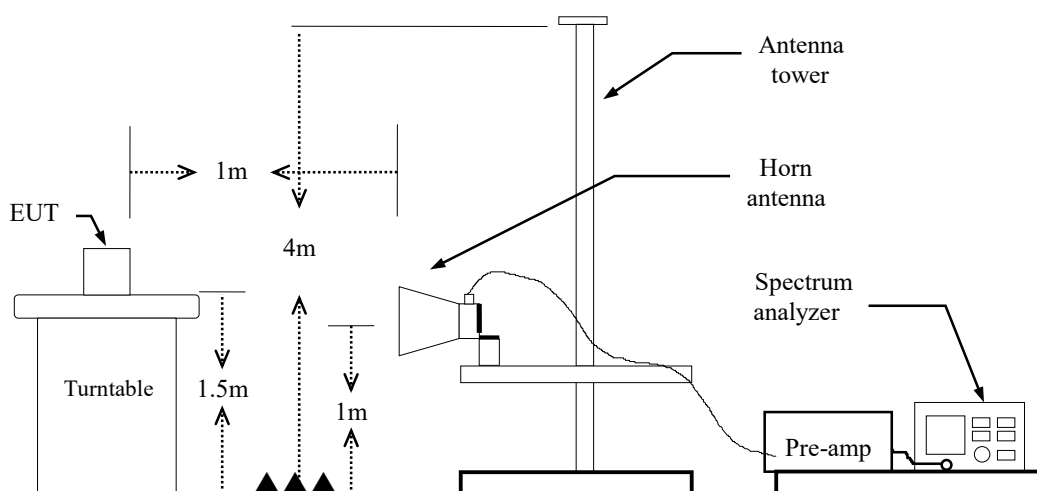
The fundamental radiated emission limits within the 76-81 GHz band are expressed in terms of Equivalent Isotropically Radiated Power (EIRP) and are as follows:

According to FCC 95.3367.

The maximum power (EIRP) within the 76-81 GHz band shall not exceed 50 dBm based on measurements employing a power averaging detector with a 1 MHz Resolution Bandwidth (RBW).

The maximum peak power (EIRP) within the 76-81 GHz band shall not exceed 55 dBm based on measurements employing a peak detector with a 1 MHz RBW.

TEST CONFIGURATION



TEST PROCEDURE

Refer to ANSI C63.26-2015 Clause 5.2.7, KDB 653005 D01 76-81 GHz Radars v01r02
Connect the test antenna for the fundamental frequency band to a spectrum analyzer via an external mixer.

Set spectrum analyzer RBW, VBW, detector, span, and so on, to the proper values.
Maximize the fundamental emission, noting that multiple peaks may be found at different beam orientations and/or polarizations A pulse desensitization factor must be applied to the measured peak pulse power amplitude.

Consult the relevant instrumentation manufacturers' Application Note(s) for more detailed information, including how to determine the magnitude of the FMCW- and pulse-desensitization factors.

Calculate the EIRP from the measured field strength using equation as follows:

For Peak Measurement:

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 + \text{Chirps Correction Factor}$$

For Average Measurement:

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$$

EIRP is the equivalent isotropically radiated power

E is the field strength of the emission at the measurement distance

D is the measurement distance

$$E \text{ (dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$$

TEST RESULTS

Compliance.

Project No.: TM-2601000366P
Report No.: TMWK2601000428KR

Page 18 / 64
Rev. 01

Temperature: 25.2 ~ 25.5°C **Test date:** February 2 ~ 12, 2026
Humidity: 51 ~ 56% RH **Tested by:** Tony Chao

Far Field Condition for EUT

Model	Frequency Range (GHz)	Largest Dimension of the Horn Antenna (mm)	Minimum Test Distance Rm (m)
RSD600-00	77.77	27.00	0.38

(1) Left(Front)

Mode	Frequency (GHz)	SA Reading (dBuV)	Antenna Factor	Mixer	Cable	Distance (m)	Level (dBuV/m)	FMCW desensitization factor	EIRP (dBm)	Limit (dBm)	Margin (dB)	Remark	Result
NTNV	77.34	65.27	46.20	11.17	1.70	1	124.35	-9.01	28.59	55.00	-26.41	Peak	Pass
	77.34	65.24	46.20	11.17	1.70	1	124.32	0.00	19.55	50.00	-30.45	AVG	Pass

(2) Left(Rear)

Mode	Frequency (GHz)	SA Reading (dBuV)	Antenna Factor	Mixer	Cable	Distance (m)	Level (dBuV/m)	FMCW desensitization factor	EIRP (dBm)	Limit (dBm)	Margin (dB)	Remark	Result
NTNV	77.32	66.20	46.20	11.13	1.70	1	125.23	-9.01	29.47	55.00	-25.53	Peak	Pass
	77.32	65.41	46.20	11.13	1.70	1	124.45	0.00	19.68	50.00	-30.32	AVG	Pass

(3) Right(Front)

Mode	Frequency (GHz)	SA Reading (dBuV)	Antenna Factor	Mixer	Cable	Distance (m)	Level (dBuV/m)	FMCW desensitization factor	EIRP (dBm)	Limit (dBm)	Margin (dB)	Remark	Result
NTNV	77.32	60.84	46.20	11.13	1.70	1	119.87	-9.01	24.11	55.00	-30.89	Peak	Pass
	77.32	60.99	46.20	11.13	1.70	1	120.03	0.00	15.26	50.00	-34.74	AVG	Pass

(4) Right(Rear)

Mode	Frequency (GHz)	SA Reading (dBuV)	Antenna Factor	Mixer	Cable	Distance (m)	Level (dBuV/m)	FMCW desensitization factor	EIRP (dBm)	Limit (dBm)	Margin (dB)	Remark	Result
NTNV	77.84	63.76	46.20	11.83	1.71	1	123.50	-9.01	27.74	55.00	-27.26	Peak	Pass
	77.84	65.57	46.20	11.83	1.71	1	125.31	0.00	20.54	50.00	-29.46	AVG	Pass

Note:

- Level=Reading+antenna factor+mixer loss+cable
EIRP=Level +20log(d)[d=1m]-104.77 - desensitization factor
- Follow Annex L of the C63.10-2020 standard.
FMCW desensitization factor =20 * Log(α)

$$\alpha = \frac{1}{\left(1 + \left[\left(\frac{2 \times \ln(2)}{\pi}\right)^2 \times \left(\frac{BW_{\text{Chirp}}}{T_{\text{Chirp}} \times RBW^2}\right)^2\right]\right)^{0.25}}$$

BW_{chirp} : Follow report sec 2.

T_{Chirp} : Follow report sec 2.

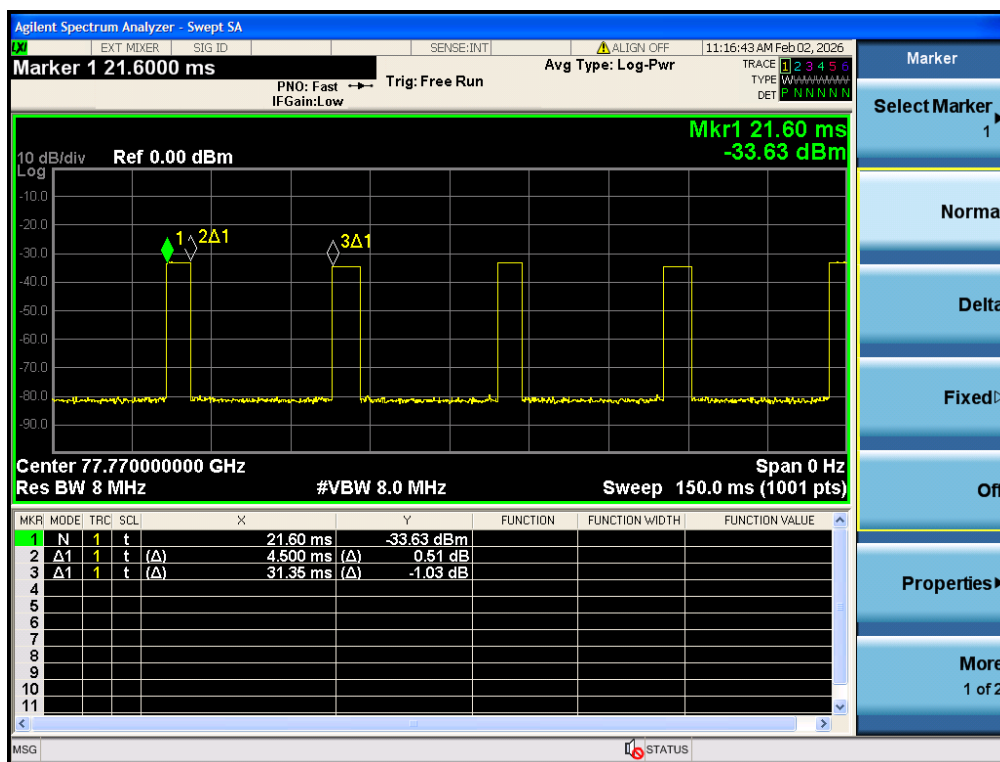
RBW :1MHz

Test Data

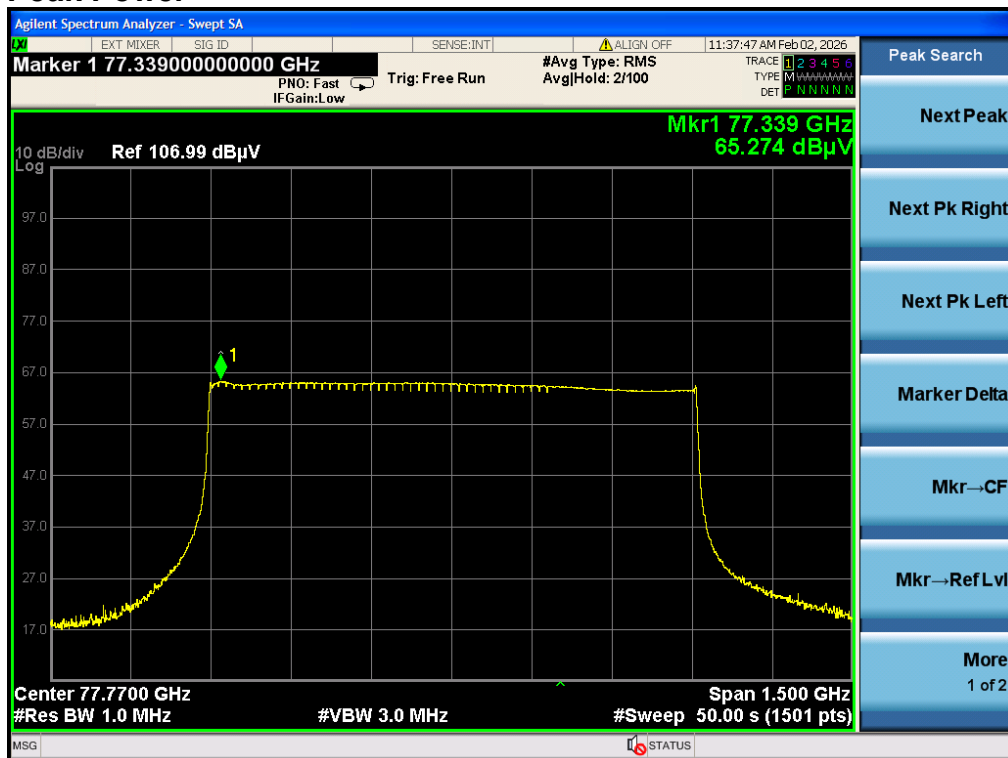
(1) Left(Front)

Duty

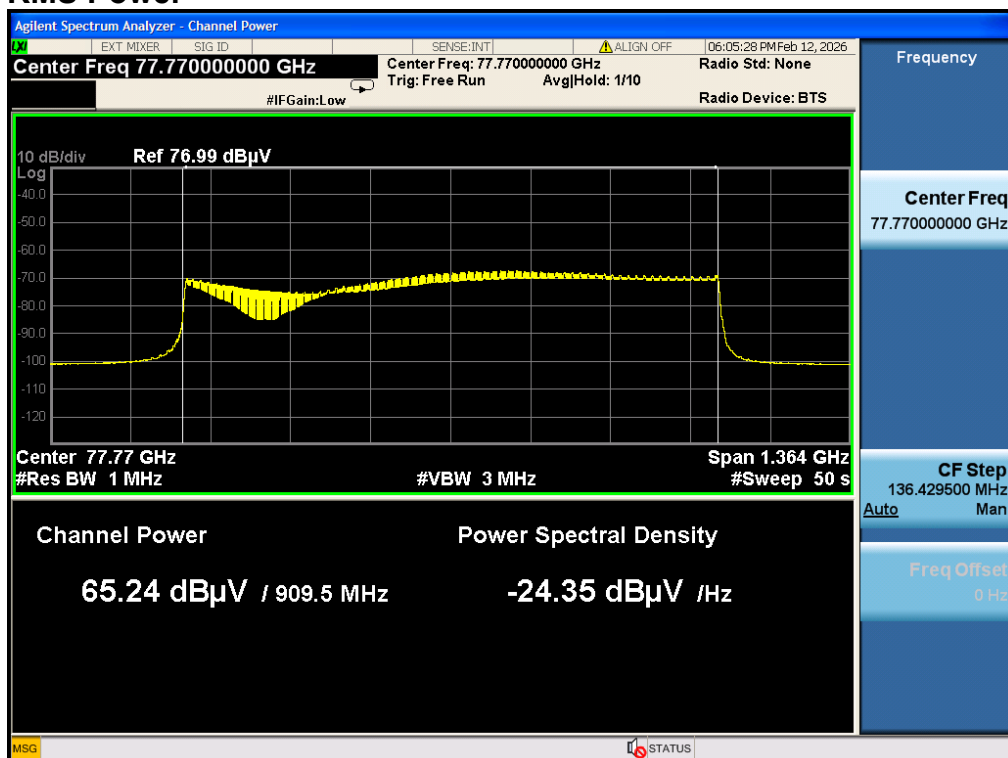
Duty Cycle On (ms)	Duty Cycle On+Off (ms)	Duty Cycle (%)	Duty Factor (dB)
4.50	31.35	14.35%	8.43



Peak Power



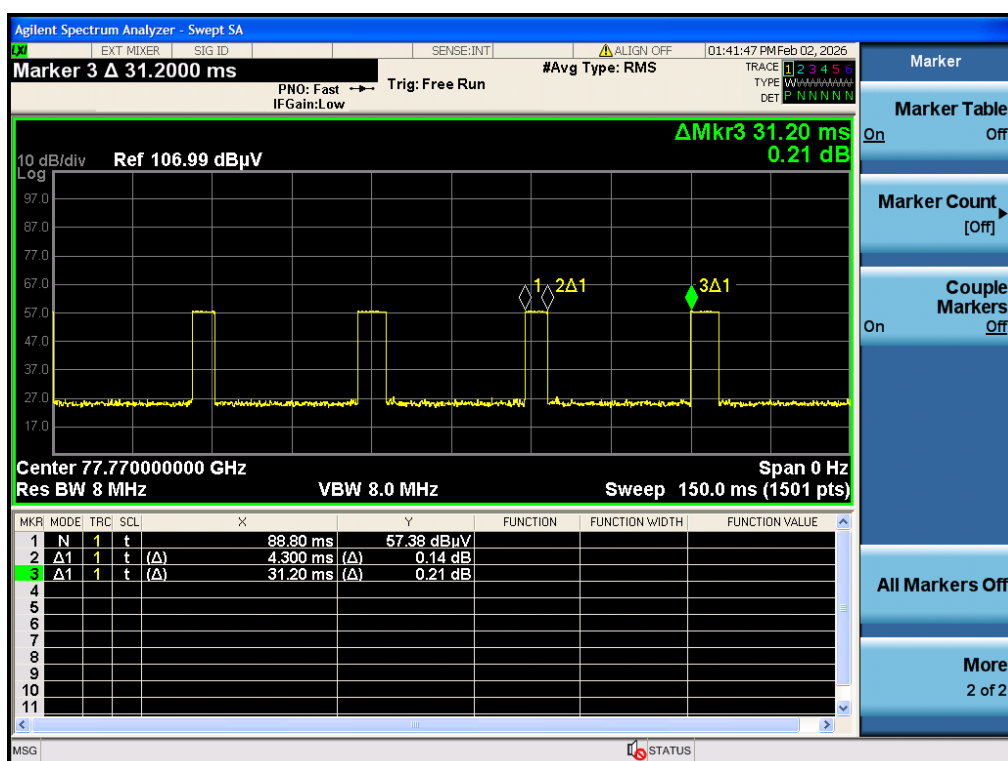
RMS Power



(2) Left(Rear)

Duty

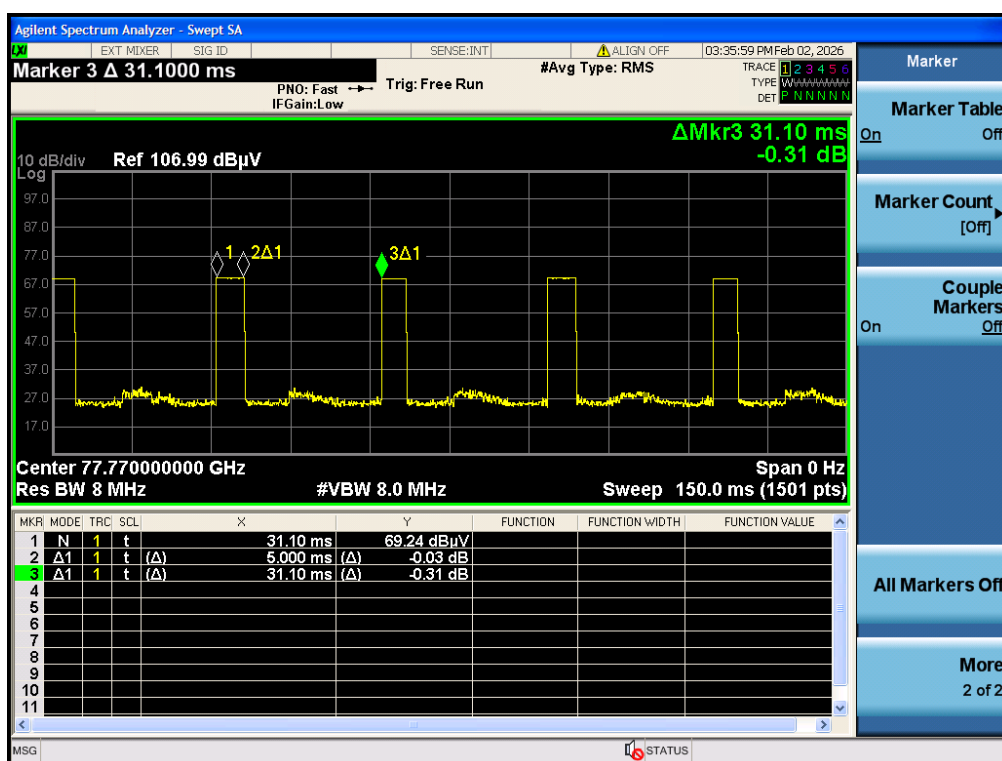
Duty Cycle On (ms)	Duty Cycle On+Off (ms)	Duty Cycle (%)	Duty Factor (dB)
4.30	31.20	13.78%	8.61



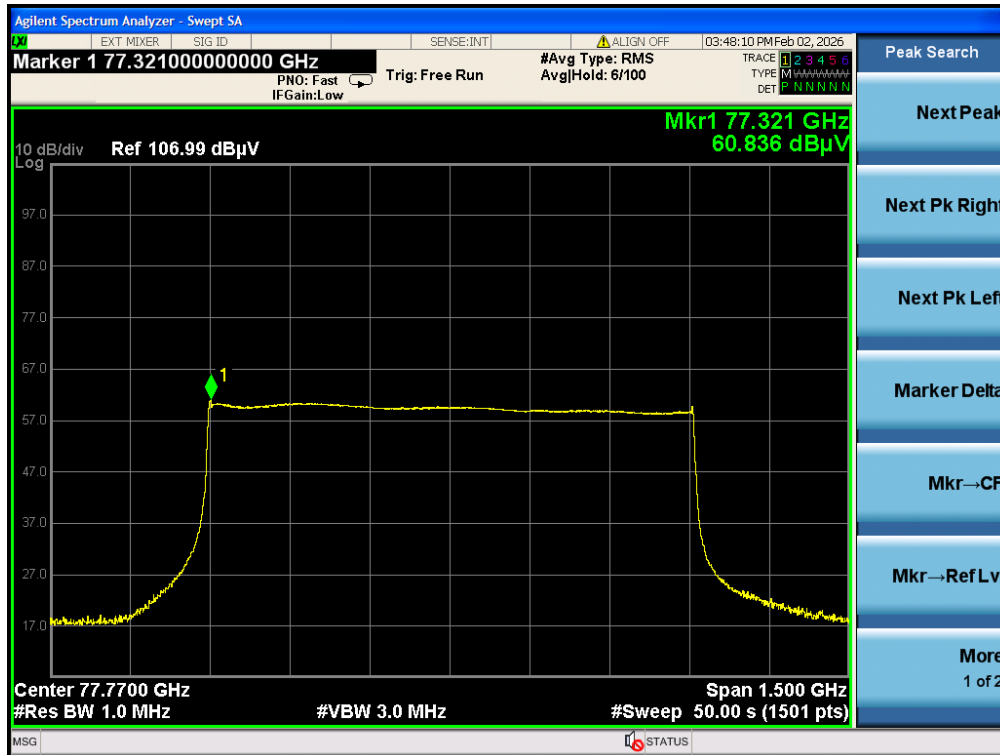
(3) Right(Front)

Duty

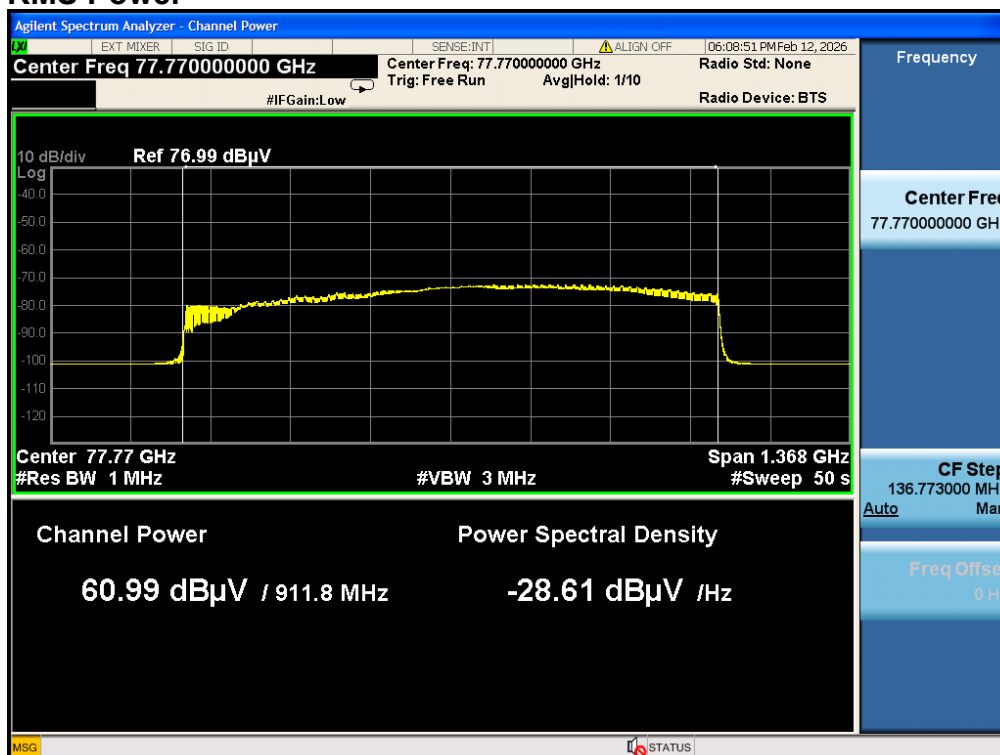
Duty Cycle On (ms)	Duty Cycle On+Off (ms)	Duty Cycle (%)	Duty Factor (dB)
5.00	31.10	16.08%	7.94



Peak Power



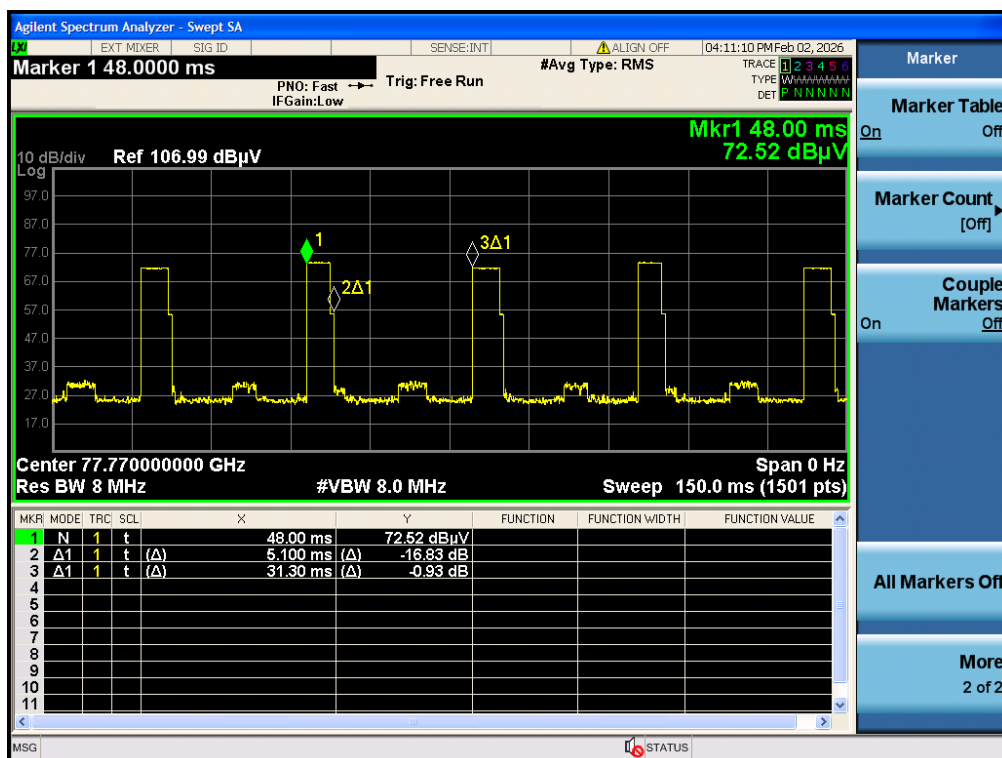
RMS Power



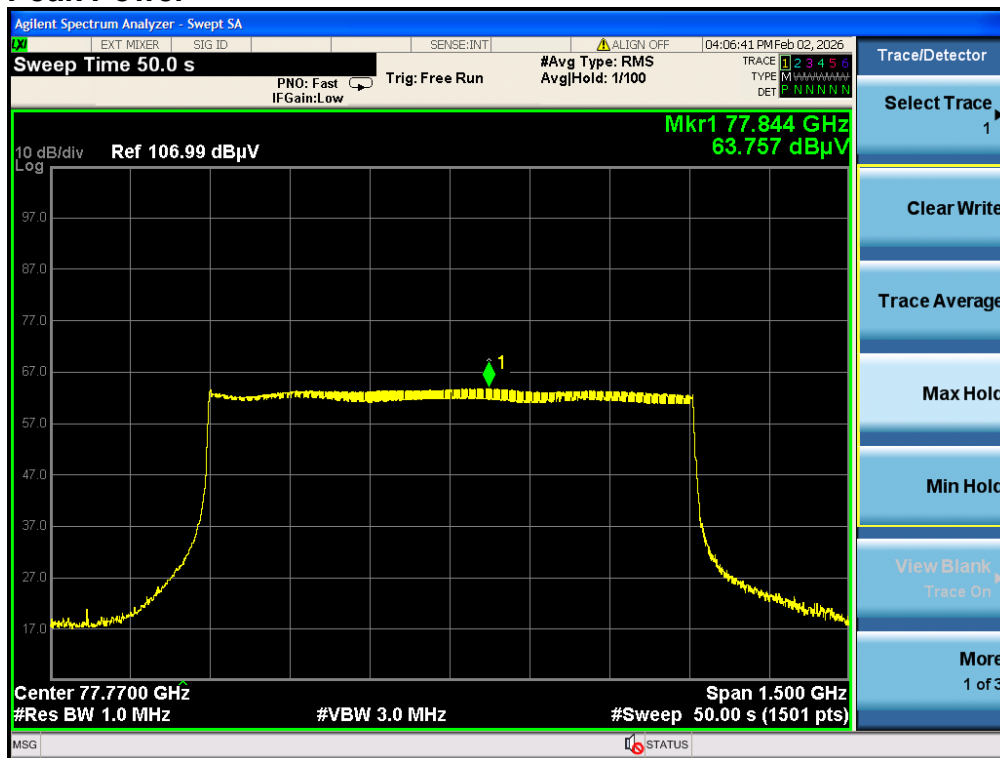
(4) Right(Rear)

Duty

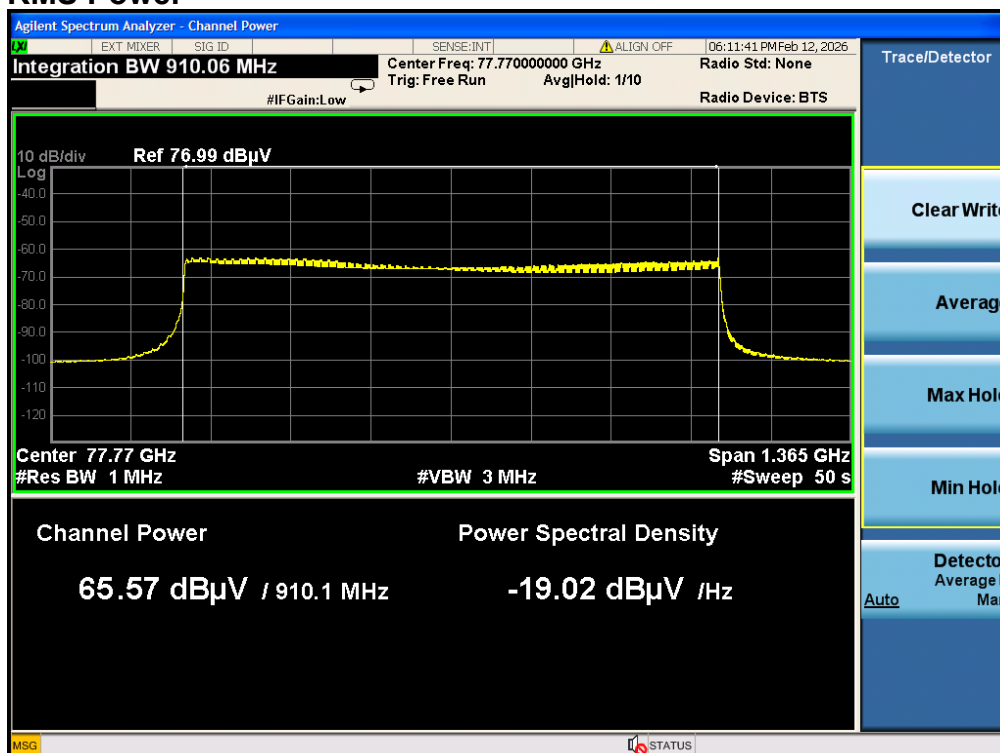
Duty Cycle On (ms)	Duty Cycle On+Off (ms)	Duty Cycle (%)	Duty Factor (dB)
5.10	31.30	16.29%	7.88



Peak Power



RMS Power



8.2 SPURIOUS EMISSIONS

8.2.1 Radiated Emissions

LIMIT

1. According to FCC PART 95.3379(a), Radiated emissions below 40 GHz shall not exceed the field strength as shown in the following emissions table.

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

2. For radiated emissions outside the 76-81 GHz band between 40 GHz and 200 GHz from field disturbance sensors and radar systems operating in the 76-81 GHz band: 600 pW/cm² at a distance of 3 meters from the exterior surface of the radiating structure.
3. For radiated emissions above 200 GHz from field disturbance sensors and radar systems operating in the 76-81 GHz band: 1000 pW/cm² at a distance of 3 meters from the exterior surface of the radiating structure.

Notes:

Calculate correction

Power density (mW/m²)X 4π(r)²=P(mW)

P(mW)-20log(d)+104.77=dBuV/m

600 pW/cm²= -1.7dBm @ 3m = 93.54dBuV/m@3m

1000 pW/cm²= 0.5 dBm @ 3m = 95.76dBuV/m@3m

P: Power

r: measurement distance(m)

Field Strength = Reading + Factor
EIRP (dBm) = Field Strength (dBμV/m) + 20log(D) – 104.8
D is the measurement distance

$$EIRP_{Linear} = 10^{\left[\frac{(EIRP_{Log} - 30)}{10}\right]}$$

where

$EIRP_{Linear}$ is the equivalent isotropically radiated power, in watts
 $EIRP_{Log}$ is the equivalent isotropically radiated power, in dBm

$$PD = \frac{EIRP_{Linear}}{4\pi d^2}$$

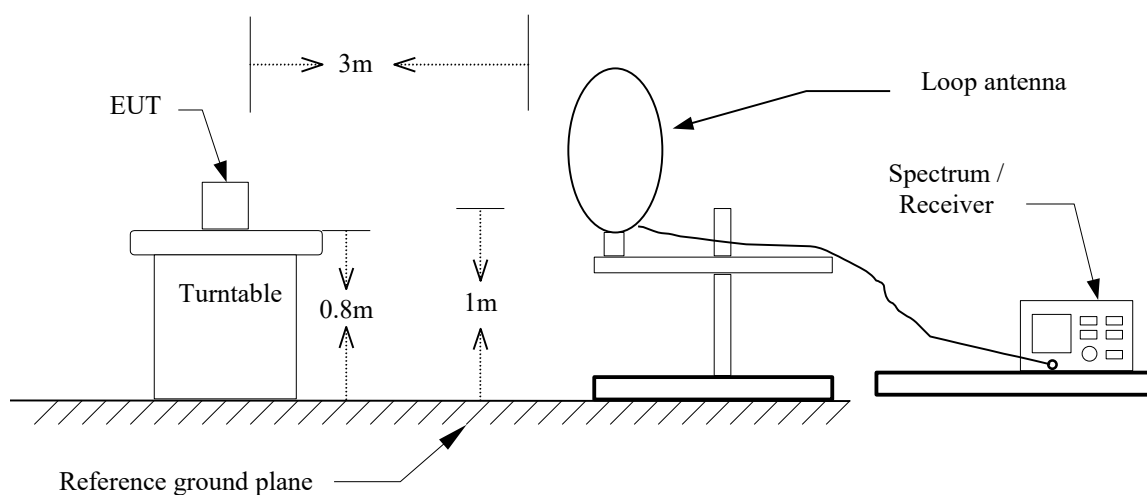
where

PD is the power density at the distance specified by the limit, in W/m²
 $EIRP_{Linear}$ is the equivalent isotropically radiated power, in watts
 d is the distance at which the power density limit is specified, in m

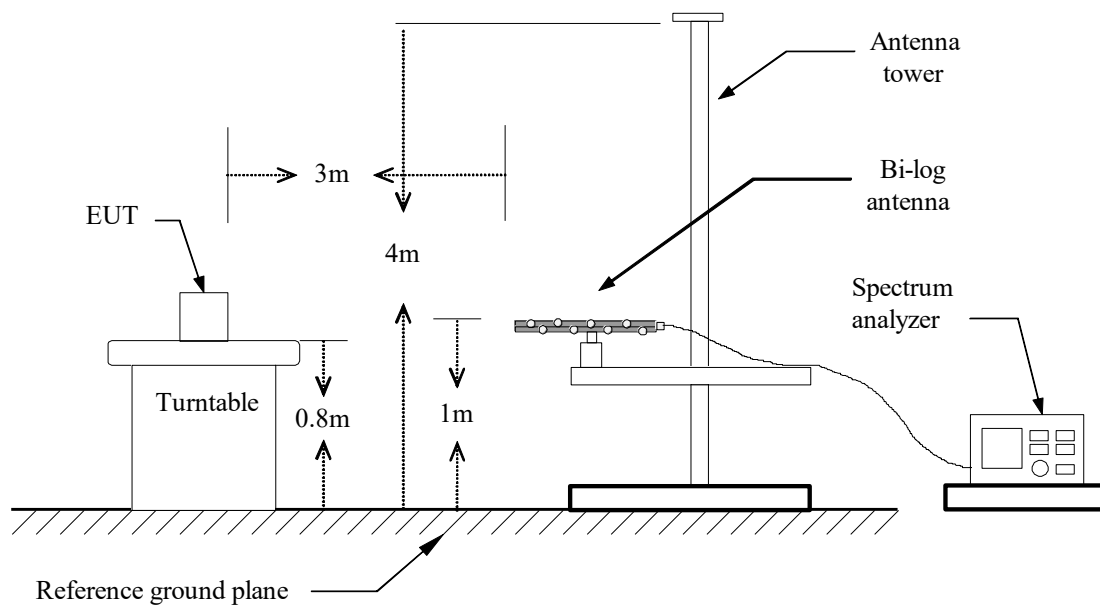
The Specified distance is 3m.

TEST CONFIGURATION

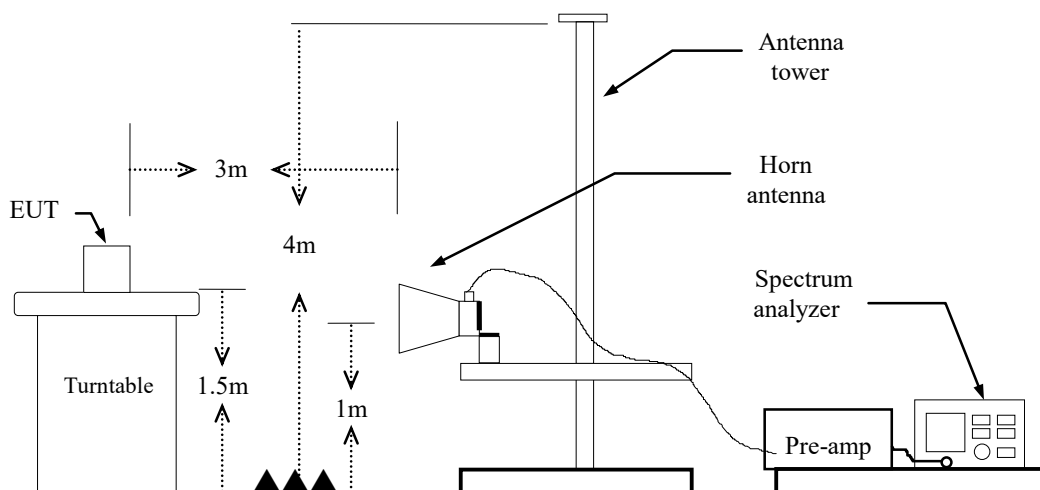
9kHz ~ 30MHz



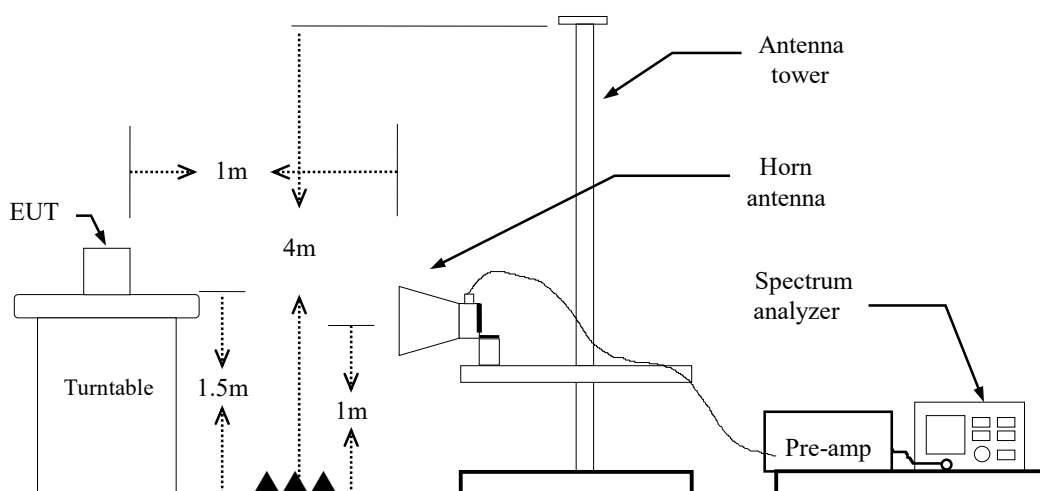
30MHz ~ 1 GHz



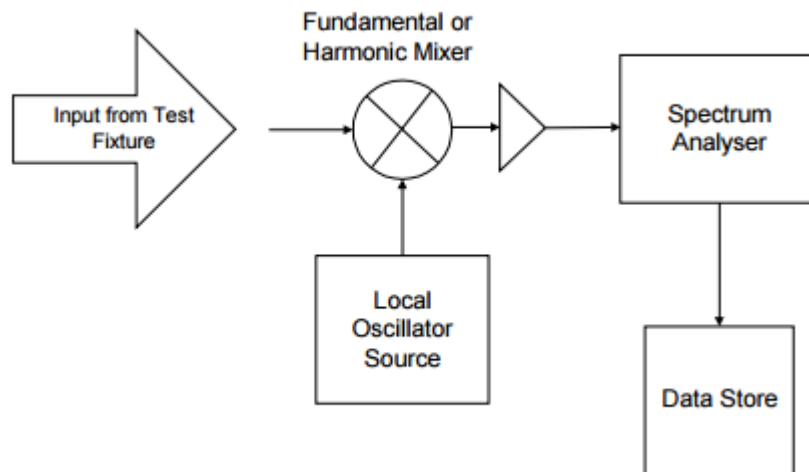
Above 1 GHz ~ 18GHz



18GHz ~ 40GHz



Above 40 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.26: 2015, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m or 1m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. The system was investigated from 9kHz to 231 GHz.

During the radiated emission test, the Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W
9kHz-150kHz	300 Hz	1 kHz
150 kHz-30MHz	10 kHz	30 kHz
30MHz-1000MHz	100 kHz	300 kHz
1-40GHz	1 MHz	3 MHz
Above 40GHz	1 MHz	3 MHz

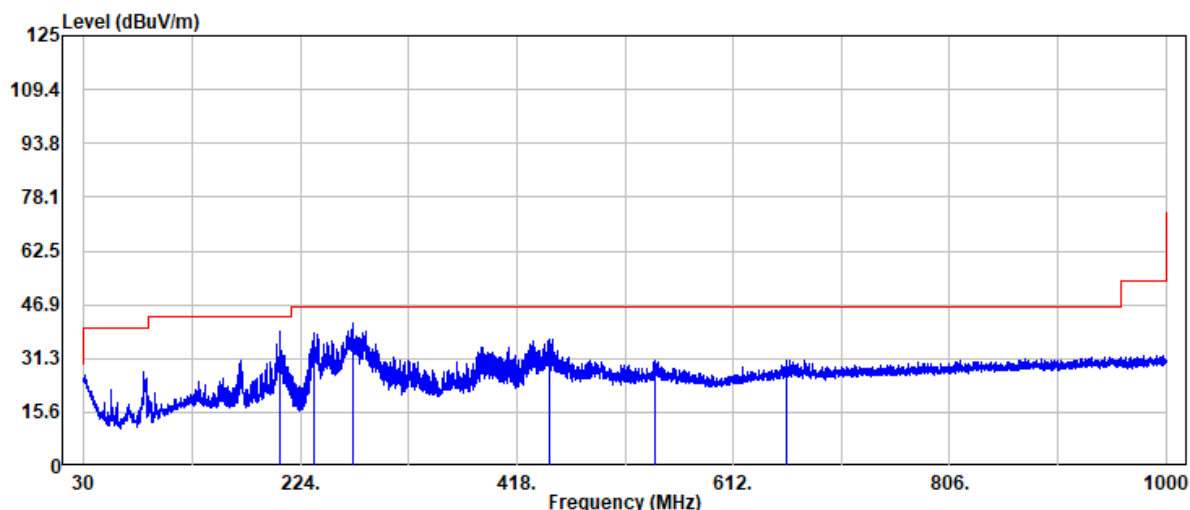
If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

7. Repeat above procedures until the measurements for all frequencies are complete.
8. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
9. Radiated emission below 30MHz is measured in a 9m*6m*6m semi-ane choic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

Below 1 GHz

(1) Left(Front)

Project No	: TM-2601000366P	Test Date	: 2026-02-02
Operation Band	: Rader	Temp./Humi.	: 25.3/56
Frequency	: 77~79 GHz	Antenna Pol.	: VERTICAL
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: H	Test Chamber	: 966A
Setting	: E		



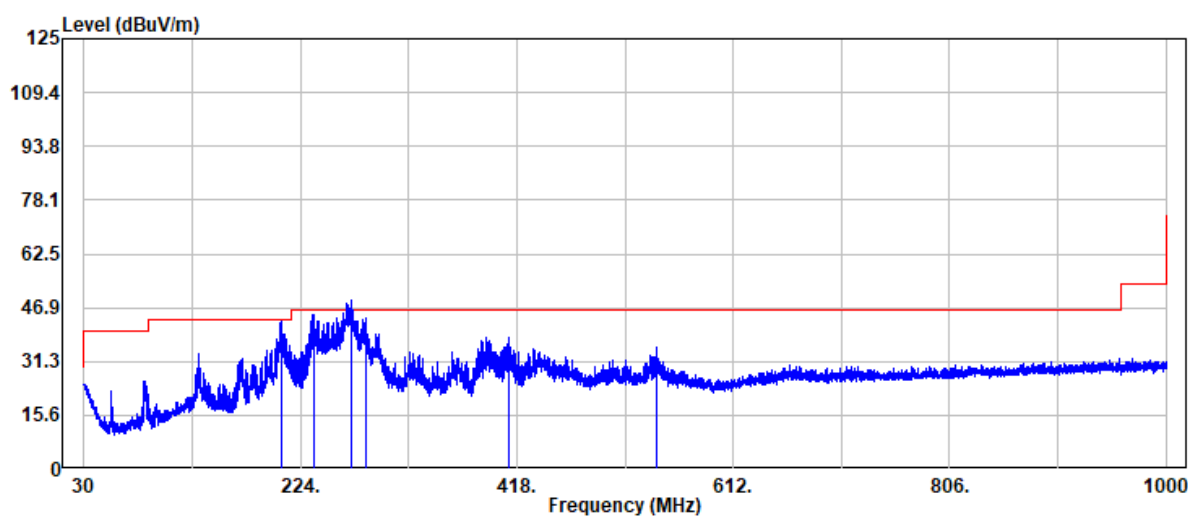
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
205.45	51.51	-12.38	39.13	43.50	-4.37	Peak
236.37	50.23	-11.58	38.65	46.00	-7.35	Peak
271.77	51.05	-9.55	41.50	46.00	-4.50	Peak
447.10	42.32	-5.40	36.92	46.00	-9.08	Peak
541.31	34.37	-3.86	30.51	46.00	-15.49	Peak
659.65	32.23	-1.69	30.54	46.00	-15.46	Peak

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : E

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read		Actual	Limit		Detector
MHz	Level	Factor	FS	@3m	Margin	Mode
	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
207.51	52.07	-12.54	39.53	43.50	-3.97	QP
236.37	56.36	-11.58	44.78	46.00	-1.22	Peak
269.47	55.01	-9.63	45.38	46.00	-0.62	QP
282.69	53.29	-9.54	43.75	46.00	-2.25	Peak
410.36	44.77	-6.41	38.36	46.00	-7.64	Peak
543.25	39.13	-3.74	35.39	46.00	-10.61	Peak

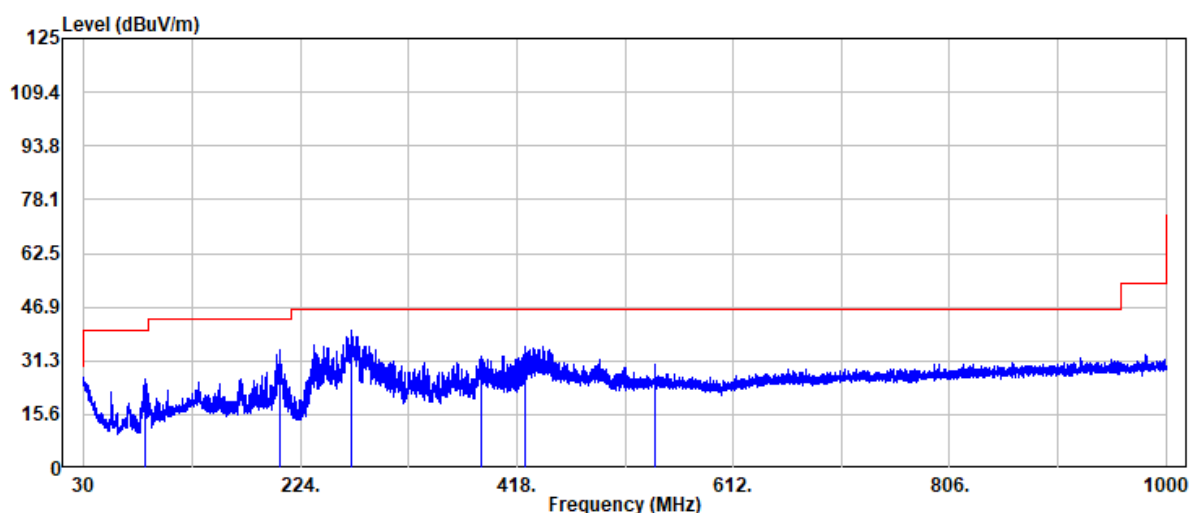
Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

(2) Left(Rear)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : F

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



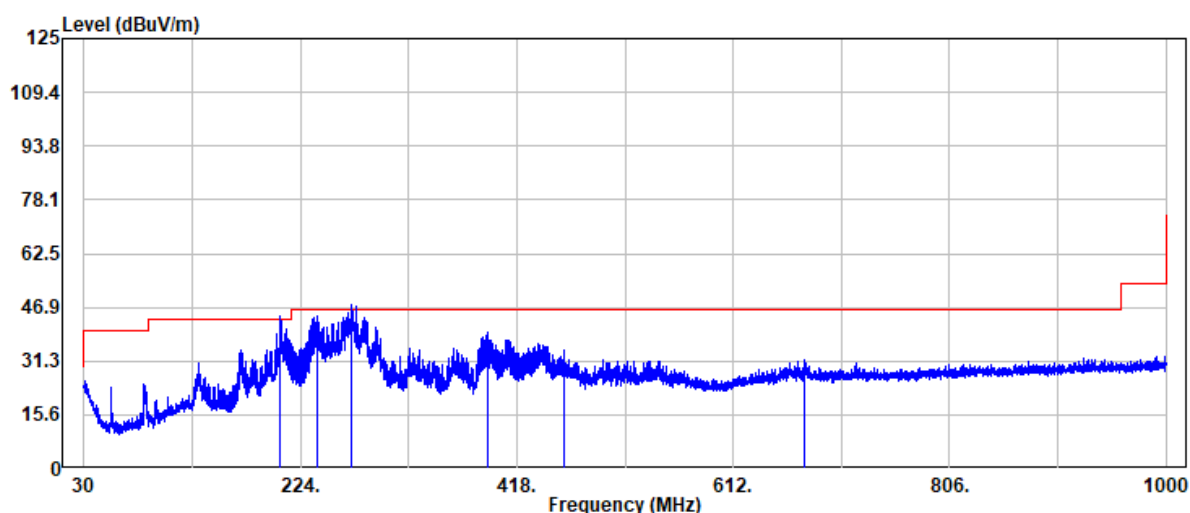
Freq	Read		Actual	Limit		Detector
MHz	Level	Factor	FS	@3m	Margin	Mode
	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
84.93	42.38	-16.55	25.83	40.00	-14.17	Peak
205.45	46.58	-12.38	34.20	43.50	-9.30	Peak
269.71	49.84	-9.61	40.23	46.00	-5.77	Peak
385.99	39.94	-7.34	32.60	46.00	-13.40	Peak
425.64	41.69	-6.08	35.61	46.00	-10.39	Peak
542.40	33.80	-3.80	30.00	46.00	-16.00	Peak

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : F

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read		Actual	Limit		Detector
MHz	Level	Factor	FS	@3m	Margin	Mode
	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
205.45	53.04	-12.38	40.66	43.50	-2.84	QP
238.43	55.76	-11.47	44.29	46.00	-1.71	Peak
269.59	55.06	-9.62	45.44	46.00	-0.56	QP
392.66	46.49	-7.03	39.46	46.00	-6.54	Peak
460.68	39.31	-5.07	34.24	46.00	-11.76	Peak
675.54	33.38	-1.66	31.72	46.00	-14.28	Peak

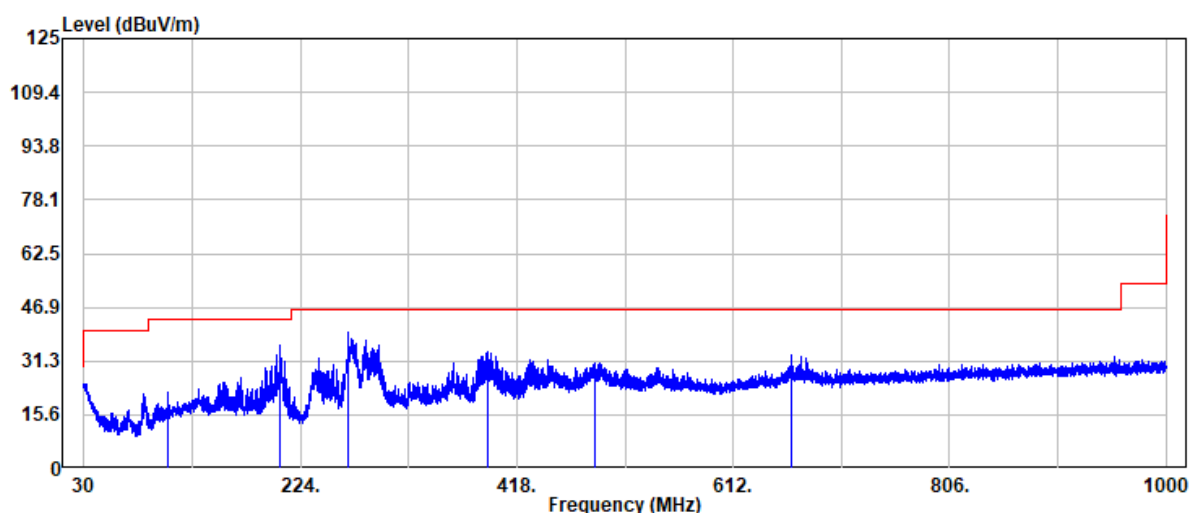
Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

(3) Right(Front)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : G

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



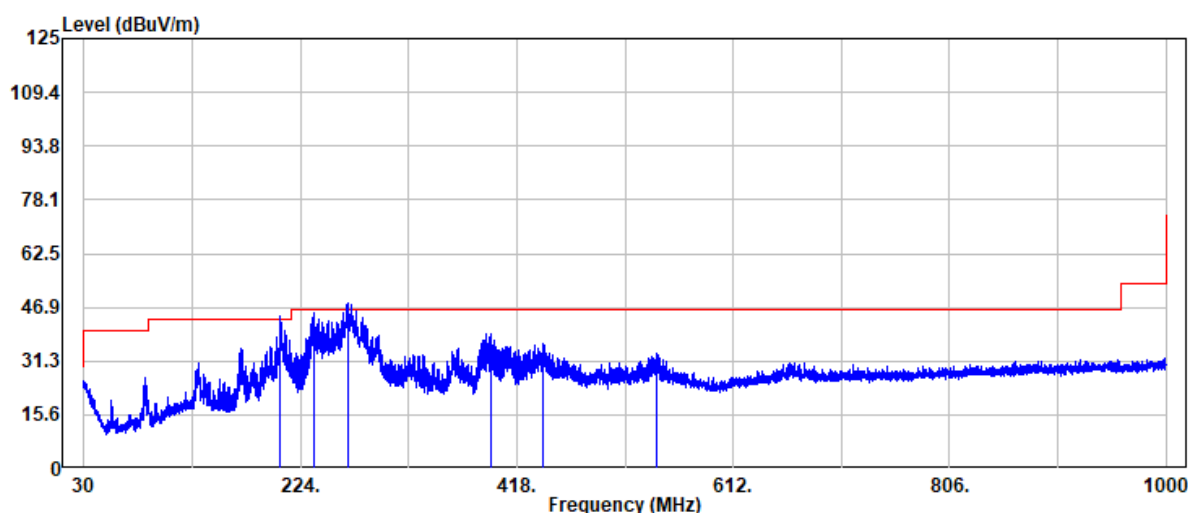
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
104.93	33.82	-11.77	22.05	43.50	-21.45	Peak
205.45	48.29	-12.38	35.91	43.50	-7.59	Peak
267.29	49.44	-9.83	39.61	46.00	-6.39	Peak
392.42	41.02	-7.06	33.96	46.00	-12.04	Peak
488.57	34.92	-4.43	30.49	46.00	-15.51	Peak
664.87	34.67	-1.65	33.02	46.00	-12.98	Peak

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : G

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read		Actual	Limit		Detector
MHz	Level	Factor	FS	@3m	Margin	Mode
	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
205.33	52.14	-12.37	39.77	43.50	-3.73	QP
236.37	56.67	-11.58	45.09	46.00	-0.91	Peak
267.17	55.15	-9.84	45.31	46.00	-0.69	QP
394.96	45.99	-6.94	39.05	46.00	-6.95	Peak
441.52	41.86	-5.56	36.30	46.00	-9.70	Peak
543.49	37.03	-3.73	33.30	46.00	-12.70	Peak

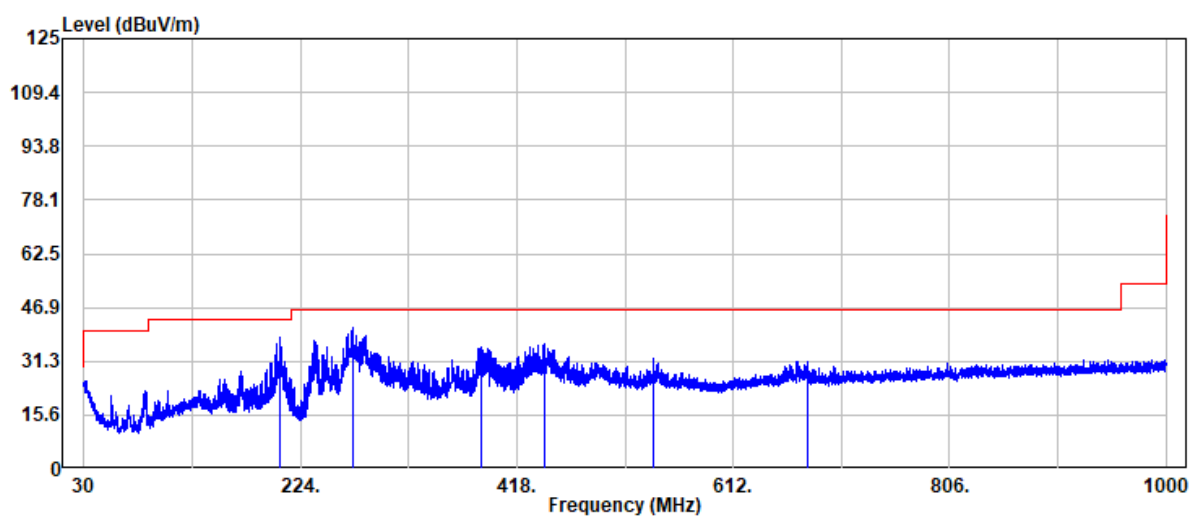
Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

(4) Right(Rear)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : H

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : VERTICAL
Engineer : Ben.Yang
Test Chamber : 966A



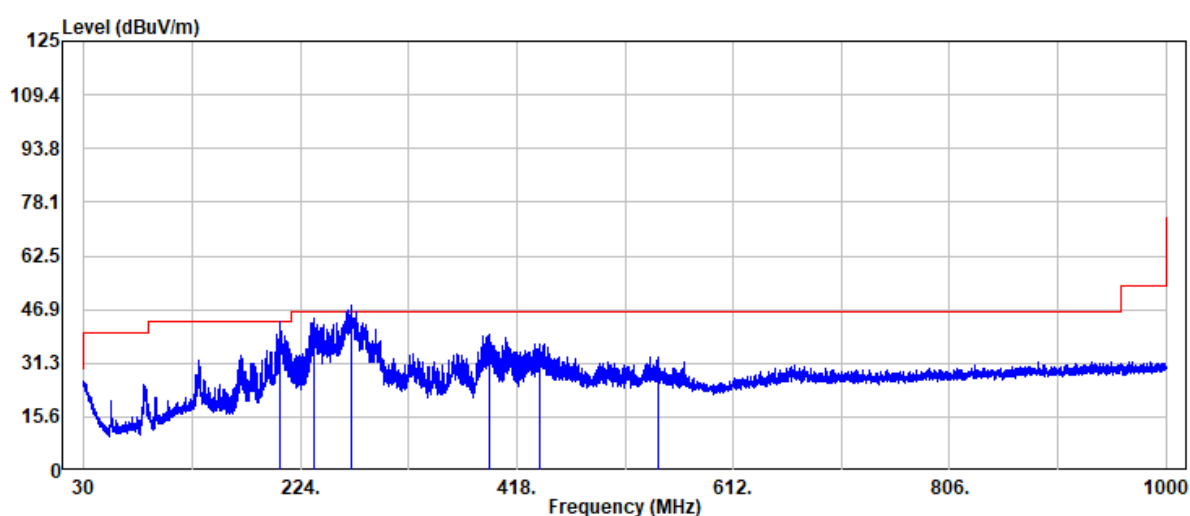
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
205.45	50.36	-12.38	37.98	43.50	-5.52	Peak
271.77	50.53	-9.55	40.98	46.00	-5.02	Peak
386.11	42.60	-7.34	35.26	46.00	-10.74	Peak
443.34	41.93	-5.48	36.45	46.00	-9.55	Peak
540.22	35.94	-3.93	32.01	46.00	-13.99	Peak
678.32	32.93	-1.62	31.31	46.00	-14.69	Peak

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : H

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read	Factor	Actual	Limit	Margin	Detector
MHz	dBuV	dB	FS	@3m	dB	Mode
205.45	52.94	-12.38	40.56	43.50	-2.94	QP
236.37	56.09	-11.58	44.51	46.00	-1.49	Peak
269.47	55.09	-9.63	45.46	46.00	-0.54	QP
392.78	46.53	-7.03	39.50	46.00	-6.50	Peak
438.61	42.65	-5.64	37.01	46.00	-8.99	Peak
545.07	36.73	-3.64	33.09	46.00	-12.91	Peak

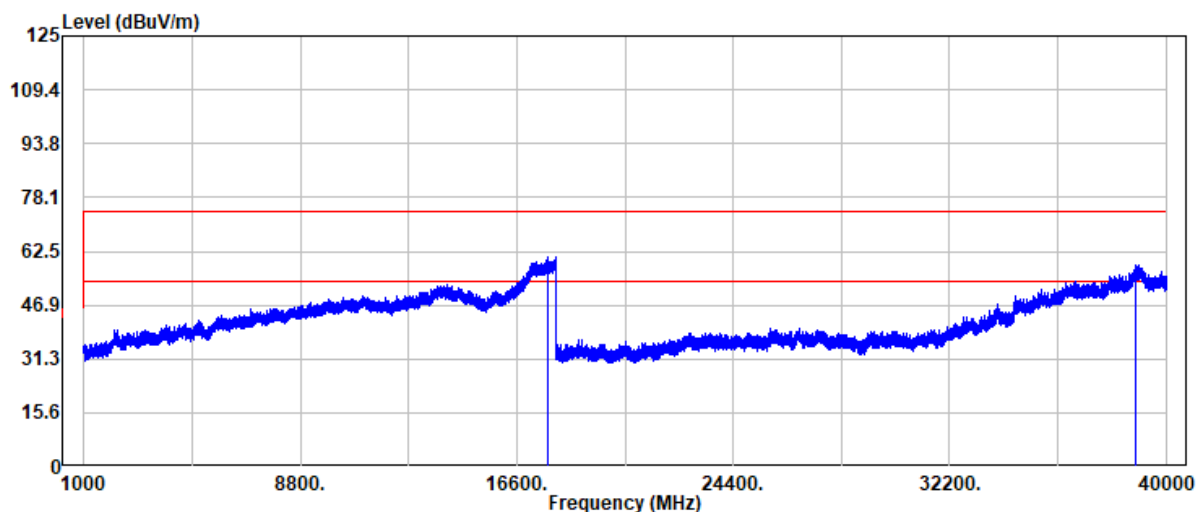
Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Actual FS-Limit.
6. Factor=antenna factor-amp gain+ cable loss

1GHz~40GHz

(1) Left(Front)

Project No	: TM-2601000366P	Test Date	: 2026-02-02
Operation Band	: Rader	Temp./Humi.	: 25.3/56
Frequency	: 77~79 GHz	Antenna Pol.	: Vertical
Operation Mode	: TX	Engineer	: Ben.Yang
EUT Pol	: H	Test Chamber	: 966A
Setting	: E		



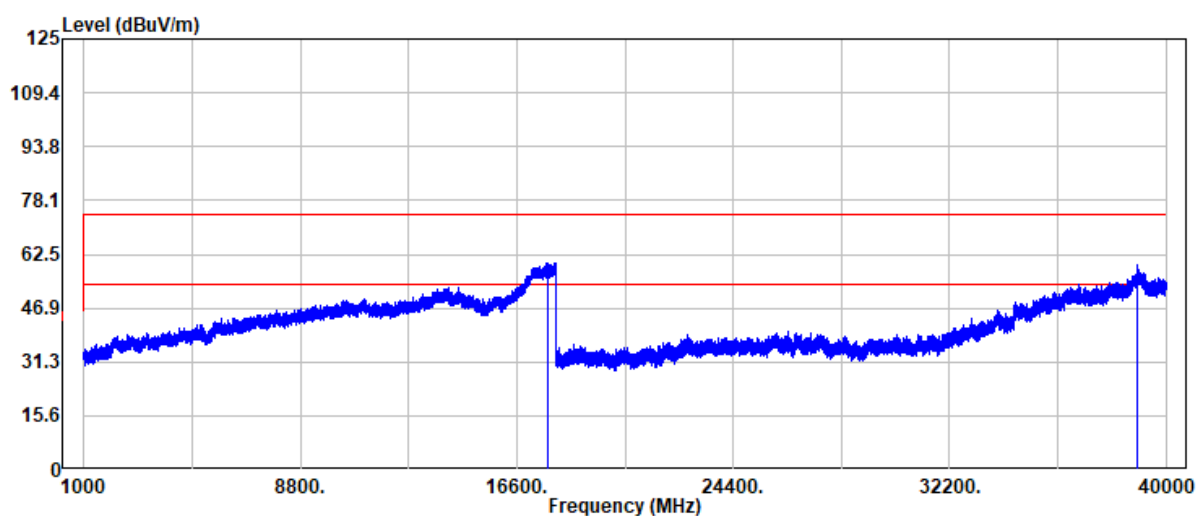
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17722.00	35.41	25.37	60.78	74.00	-13.22	Peak
17722.00	24.20	25.37	49.57	54.00	-4.43	Average
38921.00	50.80	7.63	58.43	74.00	-15.57	Peak
38921.00	40.62	7.63	48.25	54.00	-5.75	Average

Remark:

- Actual FS (dBuV/m) = Factor + Spectrum Reading Level
- Margin (dB) = Actual FS – Limit
- Measurement distance: 3m@1-18G 、measurement distance: 1m@18-40G
- Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
- The measurement result is PK, but it also meets the RMS limit value.

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : E

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17691.00	34.21	25.84	60.05	74.00	-13.95	Peak
17691.00	24.29	25.84	50.13	54.00	-3.87	Average
38950.00	51.25	8.11	59.36	74.00	-14.64	Peak
38950.00	40.77	8.11	48.88	54.00	-5.12	Average

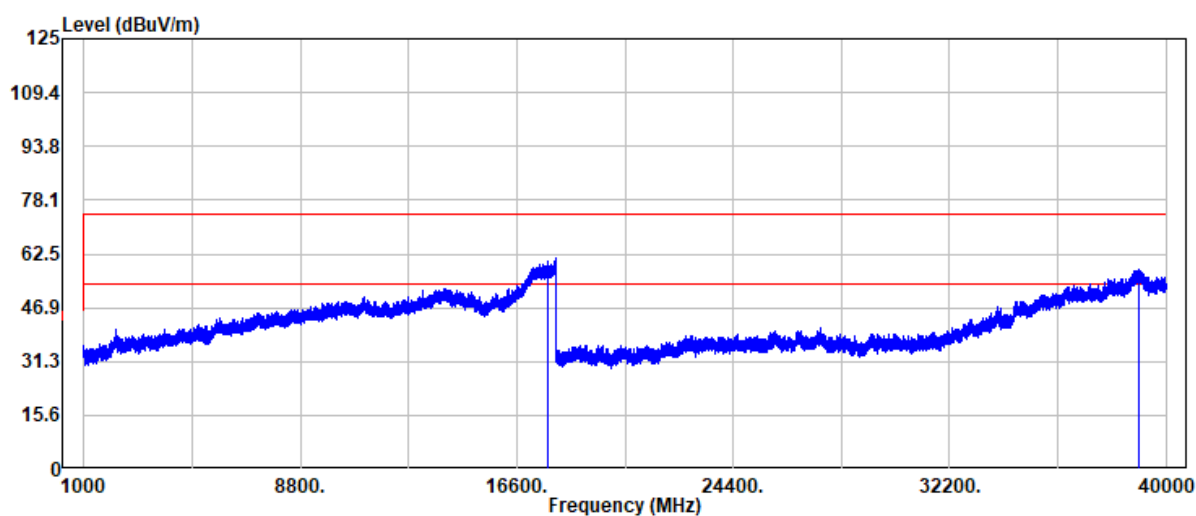
Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Measurement distance: 3m@1-18G 、measurement distance: 1m@18-40G
4. Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
5. The measurement result is PK, but it also meets the RMS limit value.

(2) Left(Rear)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : F

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : Vertical
Engineer : Ben.Yang
Test Chamber : 966A



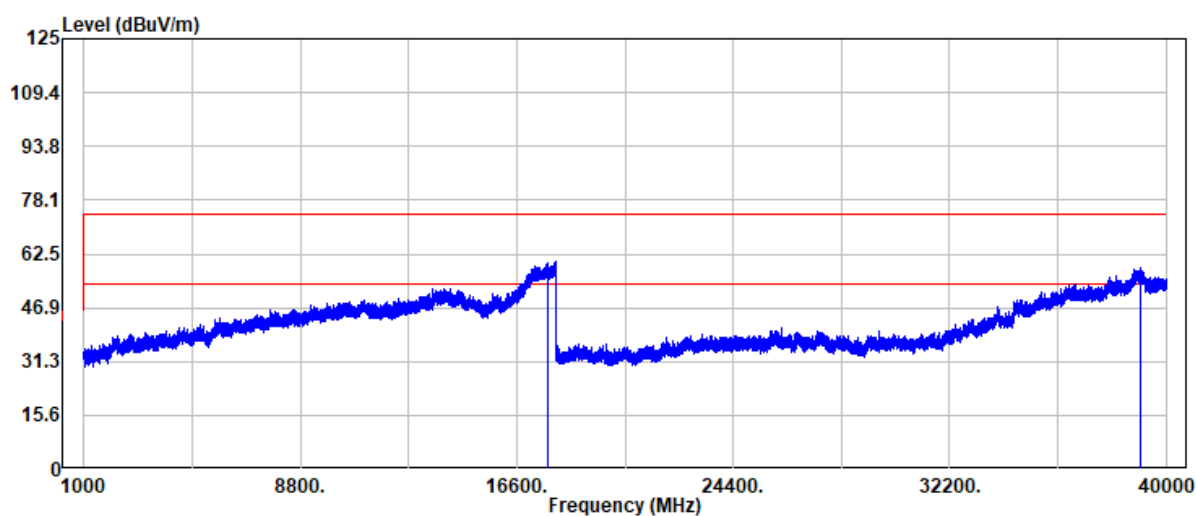
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17693.00	34.45	25.88	60.33	74.00	-13.67	Peak
17693.00	24.31	25.88	50.19	54.00	-3.81	Average
39047.00	49.86	8.22	58.08	74.00	-15.92	Peak
39047.00	40.74	8.22	48.96	54.00	-5.04	Average

Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Measurement distance: 3m@1-18G 、 measurement distance: 1m@18-40G
4. Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
5. The measurement result is PK, but it also meets the RMS limit value.

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : F

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17720.00	34.50	25.43	59.93	74.00	-14.07	Peak
17720.00	24.36	25.43	49.79	54.00	-4.21	Average
39065.00	50.29	8.23	58.52	74.00	-15.48	Peak
39065.00	40.69	8.23	48.92	54.00	-5.08	Average

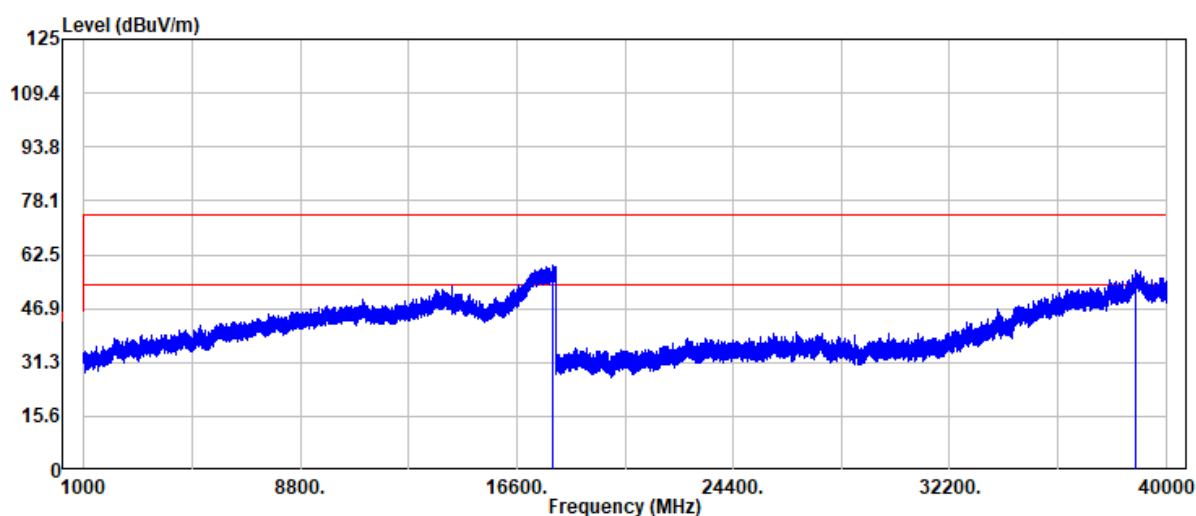
Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Measurement distance: 3m@1-18G 、measurement distance: 1m@18-40G
4. Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
5. The measurement result is PK, but it also meets the RMS limit value.

(3) Right(Front)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : G

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : Vertical
Engineer : Ben.Yang
Test Chamber : 966A



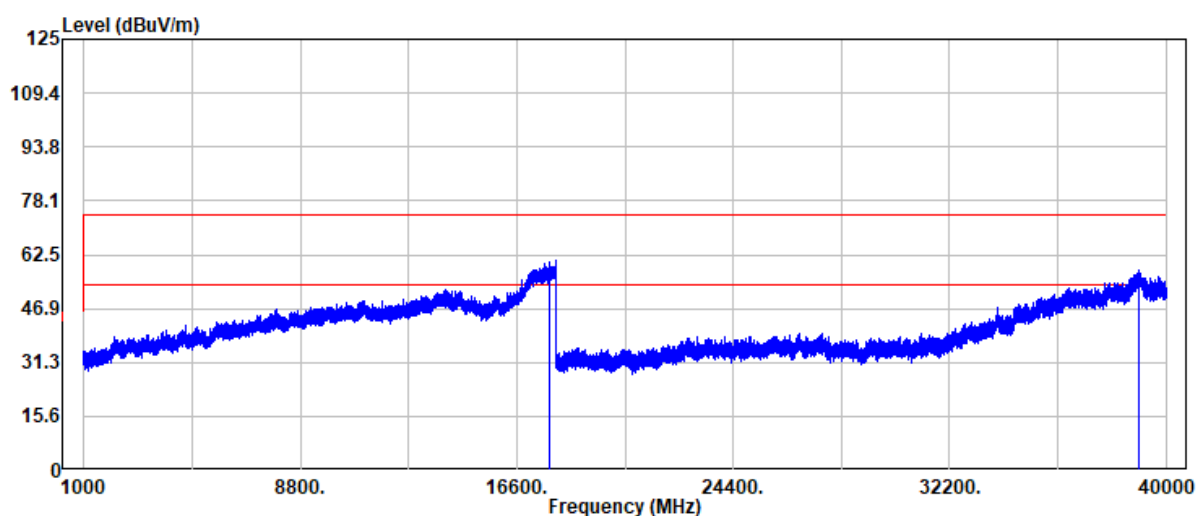
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17909.00	34.12	25.23	59.35	74.00	-14.65	Peak
17909.00	24.16	25.23	49.39	54.00	-4.61	Average
38910.00	50.42	7.45	57.87	74.00	-16.13	Peak
38910.00	40.83	7.45	48.28	54.00	-5.72	Average

Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Measurement distance: 3m@1-18G 、measurement distance: 1m@18-40G
4. Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
5. The measurement result is PK, but it also meets the RMS limit value.

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : G

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17793.00	35.08	25.43	60.51	74.00	-13.49	Peak
17793.00	24.35	25.43	49.78	54.00	-4.22	Average
39032.00	49.93	8.16	58.09	74.00	-15.91	Peak
39032.00	40.71	8.16	48.87	54.00	-5.13	Average

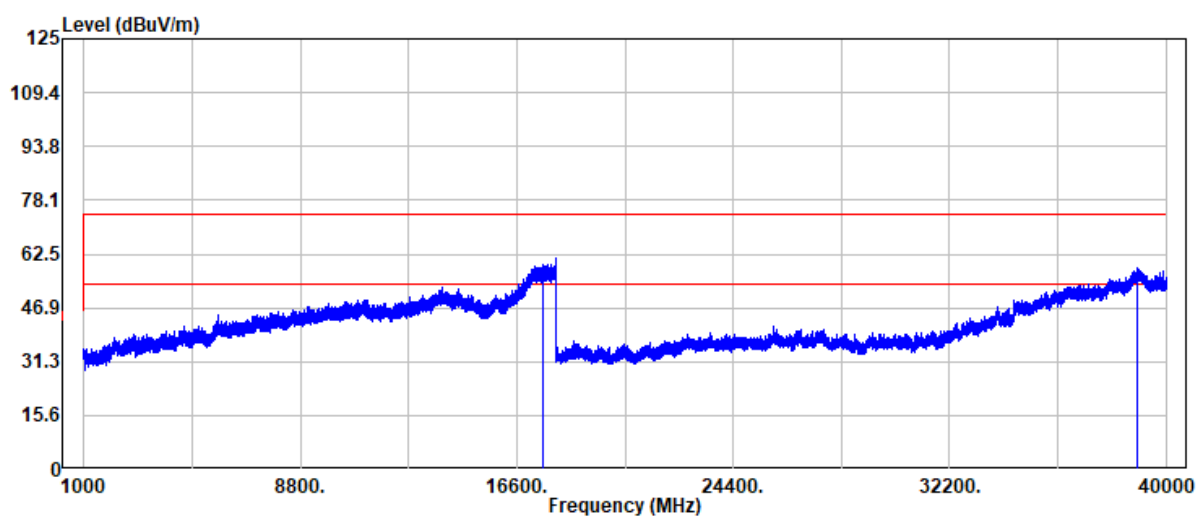
Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Measurement distance: 3m@1-18G 、measurement distance: 1m@18-40G
4. Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
5. The measurement result is PK, but it also meets the RMS limit value.

(4) Right(Rear)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : H

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : Vertical
Engineer : Ben.Yang
Test Chamber : 966A



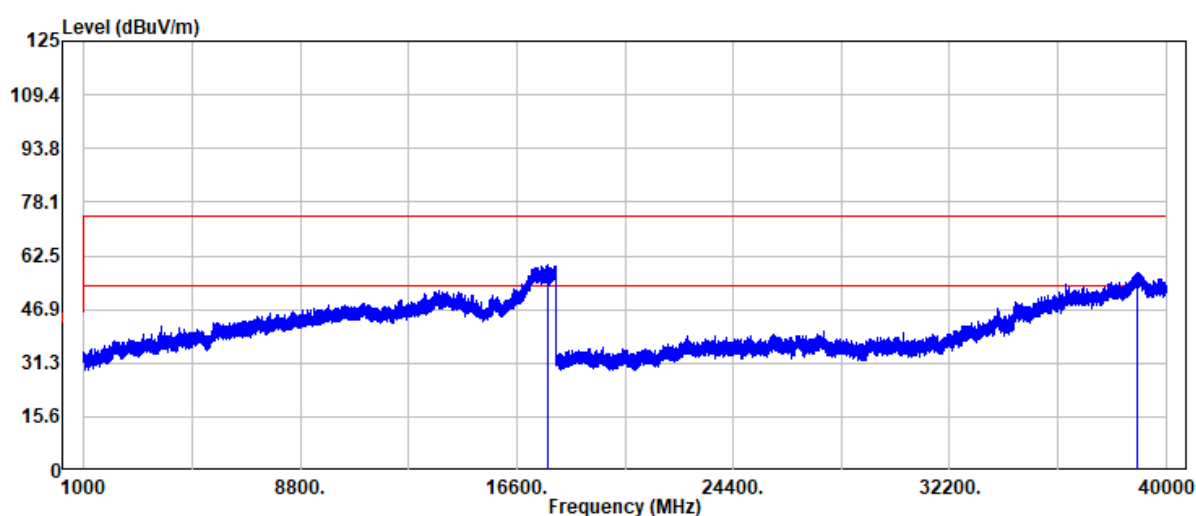
Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17532.00	34.14	25.16	59.30	74.00	-14.70	Peak
17532.00	24.19	25.16	49.35	54.00	-4.65	Average
38992.00	50.25	8.05	58.30	74.00	-15.70	Peak
38992.00	40.66	8.05	48.71	54.00	-5.29	Average

Remark:

- Actual FS (dBuV/m) = Factor + Spectrum Reading Level
- Margin (dB) = Actual FS – Limit
- Measurement distance: 3m@1-18G 、 measurement distance: 1m@18-40G
- Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
- The measurement result is PK, but it also meets the RMS limit value.

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : H

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
17715.00	34.23	25.57	59.80	74.00	-14.20	Peak
17715.00	24.39	25.57	49.96	54.00	-4.04	Average
38972.00	49.40	8.07	57.47	74.00	-16.53	Peak
38972.00	40.90	8.07	48.97	54.00	-5.03	Average

Remark:

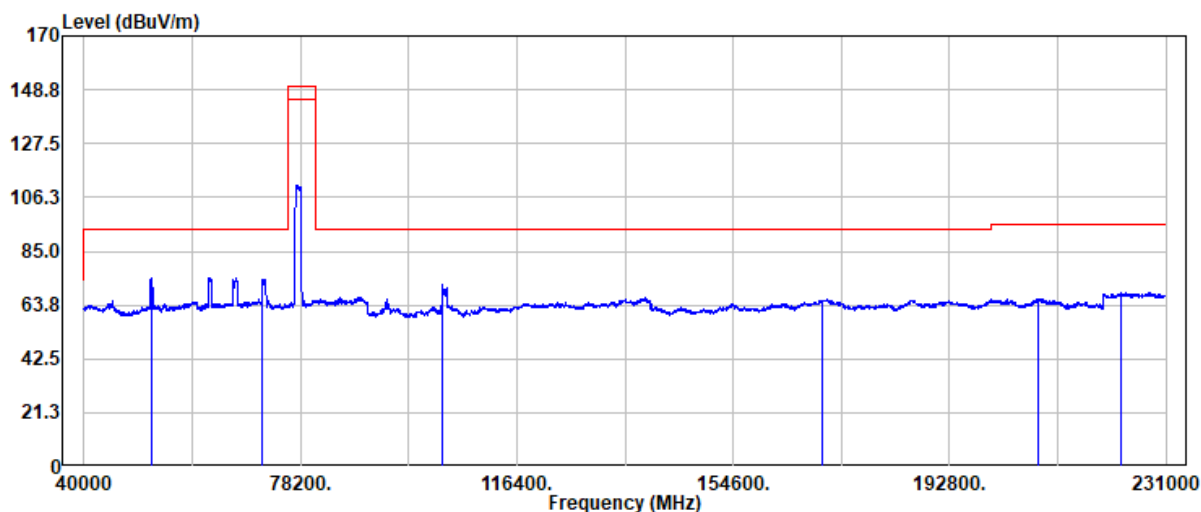
- Actual FS (dBuV/m) = Factor + Spectrum Reading Level
- Margin (dB) = Actual FS – Limit
- Measurement distance: 3m@1-18G 、 measurement distance: 1m@18-40G
- Factor:
Antenna factor+Cable loss -amp gain @1-18GHz
Antenna factor+Cable loss -amp gain + distance factor [20LOG(D/3)]@18-40GHz
- The measurement result is PK, but it also meets the RMS limit value.

40GHz~231GHz

(1) Left(Front)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : E

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
52040.00	26.69	47.79	74.48	93.54	-19.06	Peak
71430.00	24.21	49.75	73.96	93.54	-19.58	Peak
103200.00	25.67	45.99	71.66	93.54	-21.88	Peak
170300.00	15.45	50.16	65.61	93.54	-27.93	Peak
208520.00	15.80	50.33	66.13	95.76	-29.63	Peak
223102.00	21.55	46.84	68.39	95.76	-27.37	Peak

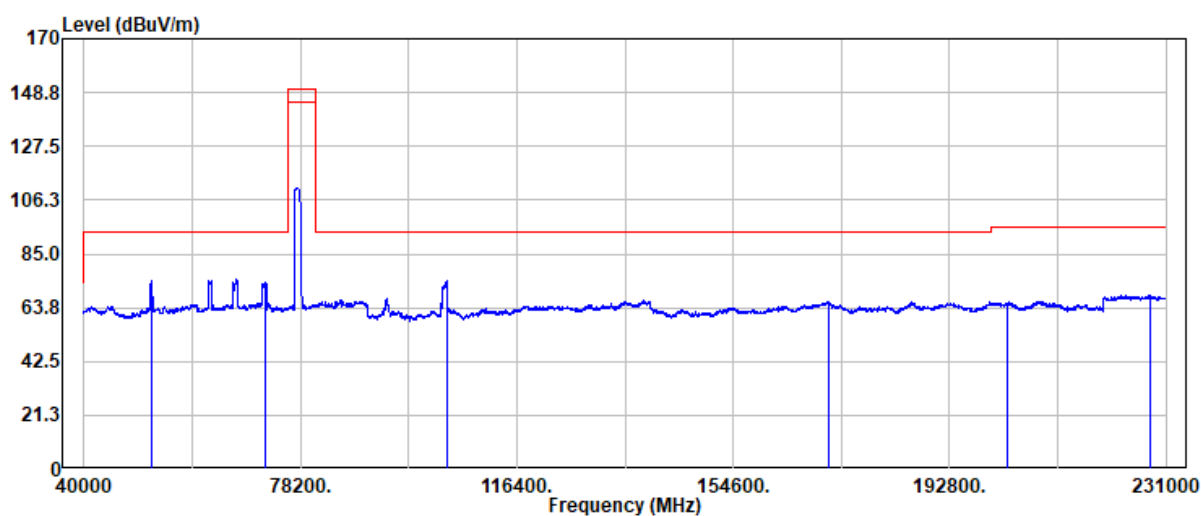
Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Factor = antenna factor+cable loss+mixer loss+ distance factor [20LOG(D/3)]
4. Measurement distance: 0.5m@40-90G、0.21m@90-140G、0.2m@140-231G
5. After pre-scanning, the worst mode (Pol: H) is recorded in the report.

(2) Left(Rear)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : F

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
52020.00	26.28	47.82	74.10	93.54	-19.44	Peak
72000.00	25.52	48.33	73.85	93.54	-19.69	Peak
104140.00	26.20	47.97	74.17	93.54	-19.37	Peak
171380.00	15.93	50.31	66.24	93.54	-27.30	Peak
203140.00	16.06	49.72	65.78	95.76	-29.98	Peak
228206.00	21.42	47.01	68.43	95.76	-27.33	Peak

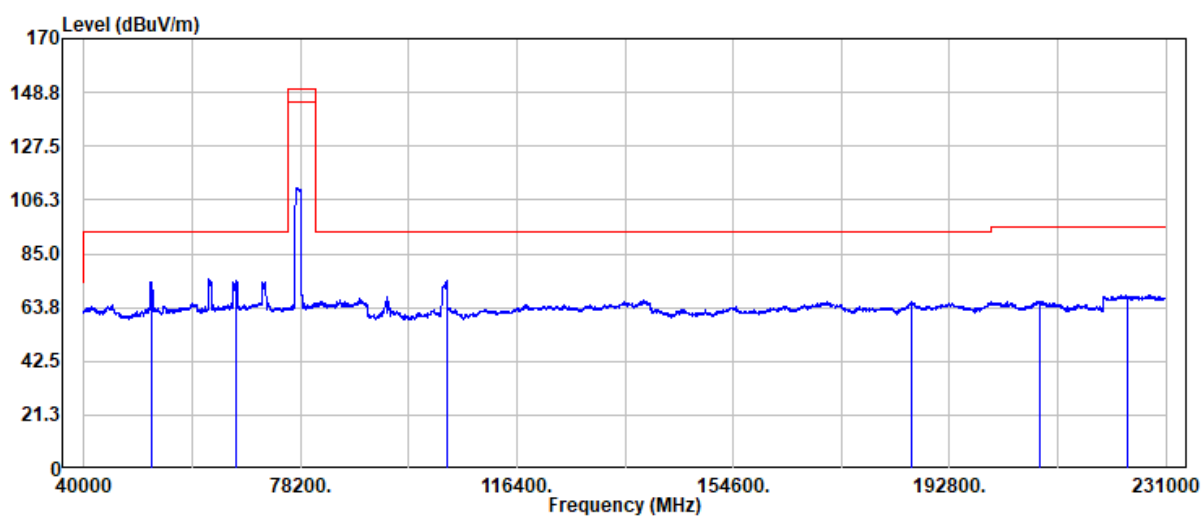
Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Factor = antenna factor+cable loss+mixer loss+ distance factor [20LOG(D/3)]
4. Measurement distance: 0.5m@40-90G、0.21m@90-140G、0.2m@140-231G
5. After pre-scanning, the worst mode (Pol: H) is recorded in the report.

(3) Right(Front)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : G

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
52030.00	26.18	47.81	73.99	93.54	-19.55	Peak
66960.00	25.66	48.84	74.50	93.54	-19.04	Peak
104150.00	26.34	47.98	74.32	93.54	-19.22	Peak
186200.00	15.70	50.22	65.92	93.54	-27.62	Peak
208760.00	15.65	50.37	66.02	95.76	-29.74	Peak
224356.00	21.04	46.94	67.98	95.76	-27.78	Peak

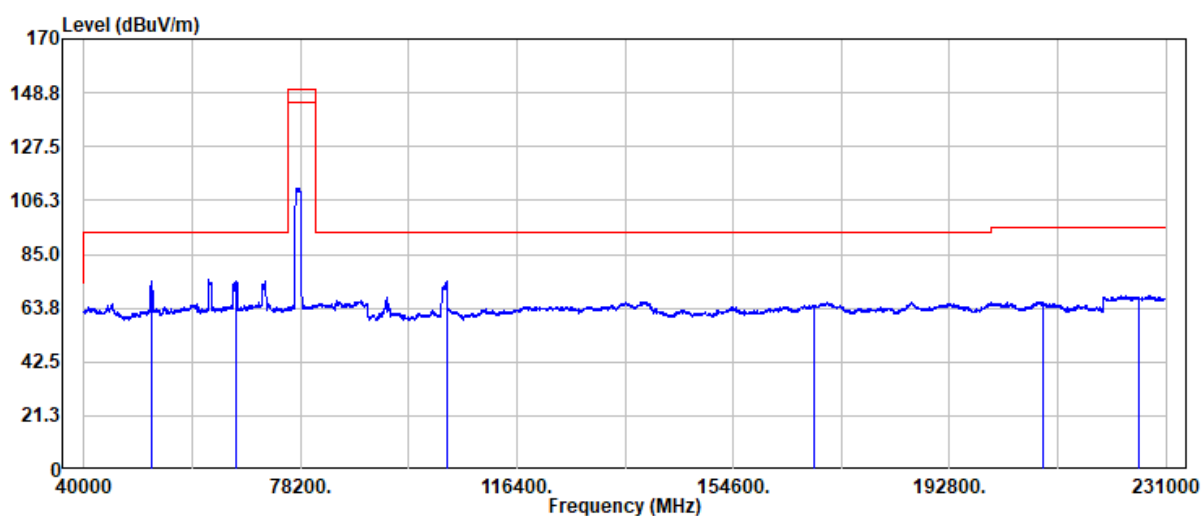
Remark:

1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Factor = antenna factor+cable loss+mixer loss+ distance factor [20LOG(D/3)]
4. Measurement distance: 0.5m@40-90G、0.21m@90-140G、0.2m@140-231G
5. After pre-scanning, the worst mode (Pol: H) is recorded in the report.

(4) Right(Rear)

Project No : TM-2601000366P
Operation Band : Rader
Frequency : 77~79 GHz
Operation Mode : TX
EUT Pol : H
Setting : H

Test Date : 2026-02-02
Temp./Humi. : 25.3/56
Antenna Pol. : HORIZONTAL
Engineer : Ben.Yang
Test Chamber : 966A



Freq	Read Level	Factor	Actual FS	Limit @3m	Margin	Detector Mode
-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	PK/QP/AV
52050.00	26.35	47.77	74.12	93.54	-19.42	Peak
66900.00	25.93	48.80	74.73	93.54	-18.81	Peak
104000.00	26.25	47.95	74.20	93.54	-19.34	Peak
168860.00	15.43	49.43	64.86	93.54	-28.68	Peak
209340.00	15.89	49.99	65.88	95.76	-29.88	Peak
226248.00	21.39	46.76	68.15	95.76	-27.61	Peak

Remark:

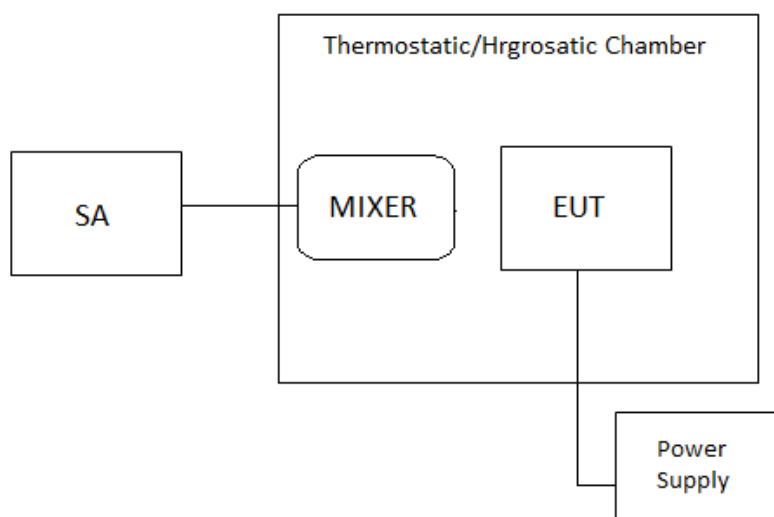
1. Actual FS (dBuV/m) = Factor + Spectrum Reading Level
2. Margin (dB) = Actual FS – Limit
3. Factor = antenna factor+cable loss+mixer loss+ distance factor [20LOG(D/3)]
4. Measurement distance: 0.5m@40-90G、0.21m@90-140G、0.2m@140-231G
5. After pre-scanning, the worst mode (Pol: H) is recorded in the report.

8.3 FREQUENCY STABILITY

LIMIT

According to FCC 95.3379(b), Fundamental emissions must be contained within the frequency bands specified in this section during all conditions of operation. Equipment is presumed to operate over the temperature range -40 to $+85$ degrees Celsius with an input voltage variation of 85% to 115% of rated input voltage, unless justification is presented to demonstrate otherwise.

Test Configuration



TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -40°C . After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of $+85^{\circ}\text{C}$ reached.

TEST RESULTS

Compliance.

Temperature: 23.5 ~ 25.3°C
Humidity: 55 ~ 56% RH

Test date: February 4 ~ 5, 2026
Tested by: Marco Chan

(1) Left(Front)

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
85	12	77.320990543	78.224849124	76-81	Pass
80		77.320731486	78.224596977		Pass
70		77.319716653	78.224843573		Pass
60		77.319792709	78.224427481		Pass
50		77.319815617	78.225026005		Pass
40		77.320251889	78.225074059		Pass
30		77.321200599	78.225497280		Pass
20		77.321008713	78.225588421		Pass
10		77.321254537	78.225737619		Pass
0		77.321626460	78.226359925		Pass
-10		77.322609052	78.226674919		Pass
-20		77.322396664	78.227841289		Pass
-30		77.322862376	78.227565548		Pass
-40		77.322016238	78.227280752		Pass

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
25	13.8	77.321570449	78.225458114	76-81	Pass
	12	77.322483527	78.226237632		Pass
	10.2	77.322078872	78.225673188		Pass

Note: The extreme voltage and extreme temperature is specified by the manufacturer

(2) Left(Rear)

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
85	12	77.321112246	78.227626453	76-81	Pass
80		77.318048822	78.226692266		Pass
70		77.317159476	78.225473467		Pass
60		77.316770343	78.226067009		Pass
50		77.317177508	78.224888488		Pass
40		77.317909726	78.226593503		Pass
30		77.320555227	78.223582456		Pass
20		77.320897042	78.225603758		Pass
10		77.321165712	78.224919683		Pass
0		77.320928851	78.224716110		Pass
-10		77.319587173	78.222404107		Pass
-20		77.320255179	78.219688854		Pass
-30		77.319849022	78.223743526		Pass
-40		77.320244793	78.226349964		Pass

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
25	13.8	77.322521926	78.224878182	76-81	Pass
	12	77.322357283	78.225017101		Pass
	10.2	77.323014922	78.225299349		Pass

Note: The extreme voltage and extreme temperature is specified by the manufacturer

(3) Right(Front)

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
85	12	77.320767937	78.220456372	76-81	Pass
80		77.320903675	78.220875882		Pass
70		77.321429700	78.220531379		Pass
60		77.322364979	78.221806729		Pass
50		77.322737229	78.223023099		Pass
40		77.323327585	78.223130154		Pass
30		77.323144384	78.224044205		Pass
20		77.319447542	78.225377595		Pass
10		77.319367807	78.225210578		Pass
0		77.319502261	78.225360216		Pass
-10		77.319319722	78.225547465		Pass
-20		77.319769419	78.225274397		Pass
-30		77.319588533	78.225194245		Pass
-40		77.321152276	78.223731168		Pass

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
25	13.8	77.319720346	78.225003797	76-81	Pass
	12	77.319561553	78.225165551		Pass
	10.2	77.319750803	78.225155853		Pass

Note: The extreme voltage and extreme temperature is specified by the manufacturer

(4) Right(Rear)

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
85	12	77.320781936	78.226359883	76-81	Pass
80		77.320444138	78.225470875		Pass
70		77.321903328	78.222172171		Pass
60		77.319389653	78.223932922		Pass
50		77.321560788	78.221755795		Pass
40		77.323786459	78.223402685		Pass
30		77.324678298	78.225796622		Pass
20		77.322216697	78.225190150		Pass
10		77.329202859	78.225479358		Pass
0		77.329303777	78.226030257		Pass
-10		77.328816464	78.226619226		Pass
-20		77.327276621	78.226891782		Pass
-30		77.329106579	78.226681563		Pass
-40		77.331883273	78.222726186		Pass

Operating Frequency					
Environment Temperature(°C)	Voltage (V)	FL (GHz)	FH (GHz)	Limit Range (GHz)	Test Result
25	13.8	77.321482942	78.225922966	76-81	Pass
	12	77.321637761	78.225409979		Pass
	10.2	77.321628771	78.225874173		Pass

Note: The extreme voltage and extreme temperature is specified by the manufacturer

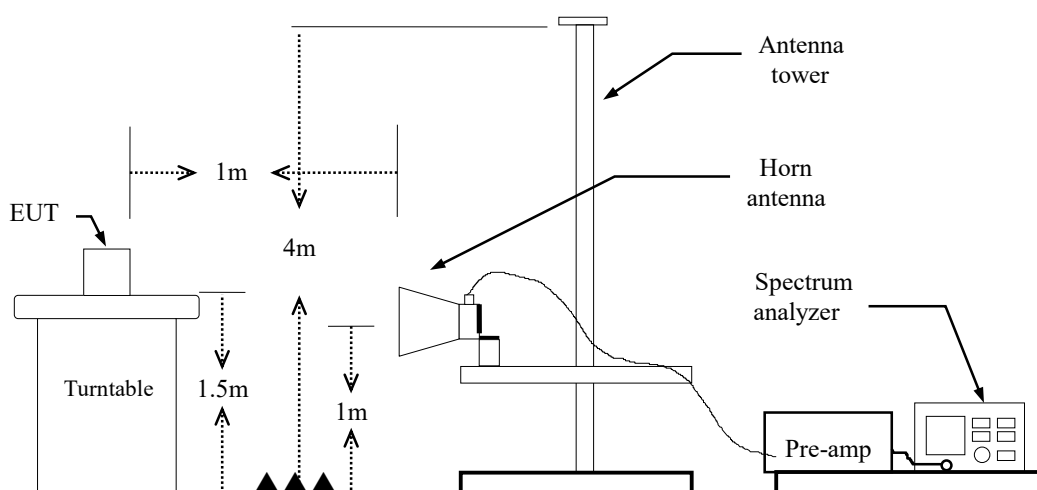
8.4 OCCUPIED BANDWIDTH (99%)

According to FCC 2.1049

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. 653005 D01 76-81 GHz Radars v01r02 clause 4 d)

The occupied bandwidth of the radar device shall be measured, reported, and shown to be fully contained within the designated 76-81 GHz frequency band under normal operating conditions as well as under those extreme ambient temperature and input voltage conditions as described in Section 2.1057.

TEST CONFIGURATION



TEST PROCEDURE

C63.26-2015, Clause 5.4.4

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times$ OBW is sufficient).
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.

NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

- d) Set the detection mode to peak, and the trace mode to max-hold.
- e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

TEST RESULTS

Compliance.

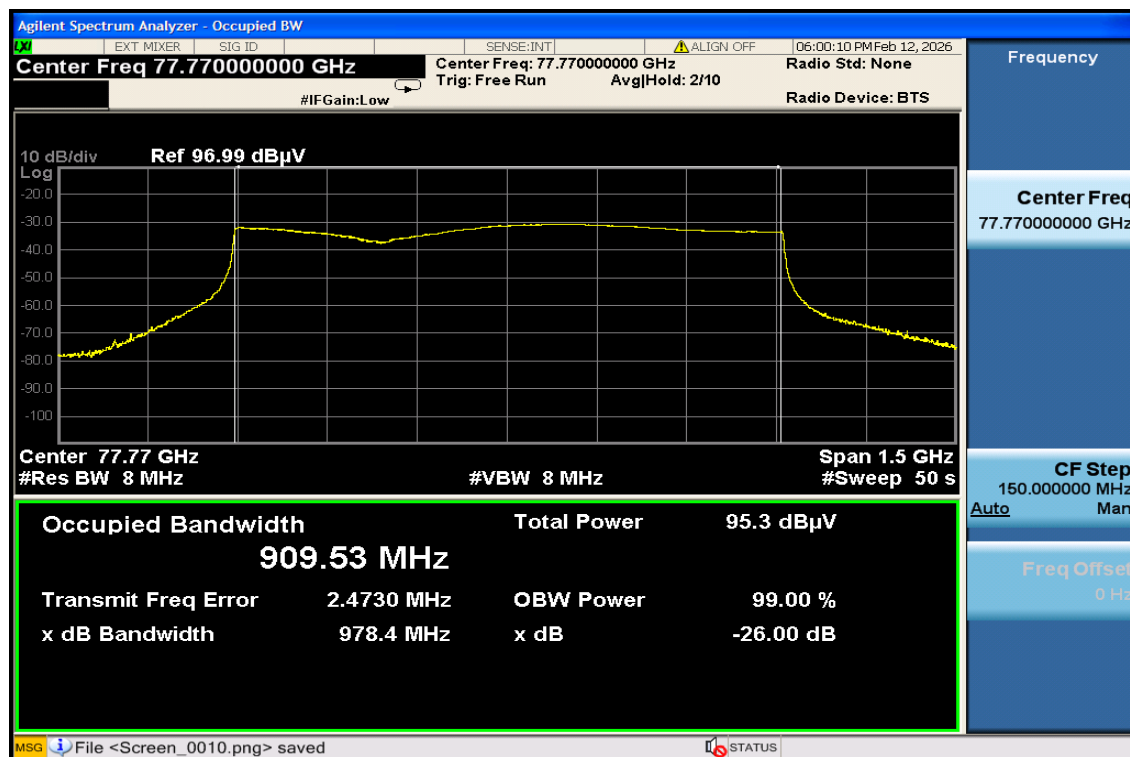
Project No.: TM-2601000366P
Report No.: TMWK2601000428KR

Page 61 / 64
Rev. 01

Temperature: 25.2 ~ 25.5°C Test date: February 2 ~ 12, 2026
Humidity: 51 ~ 56% RH Tested by: Tony Chao

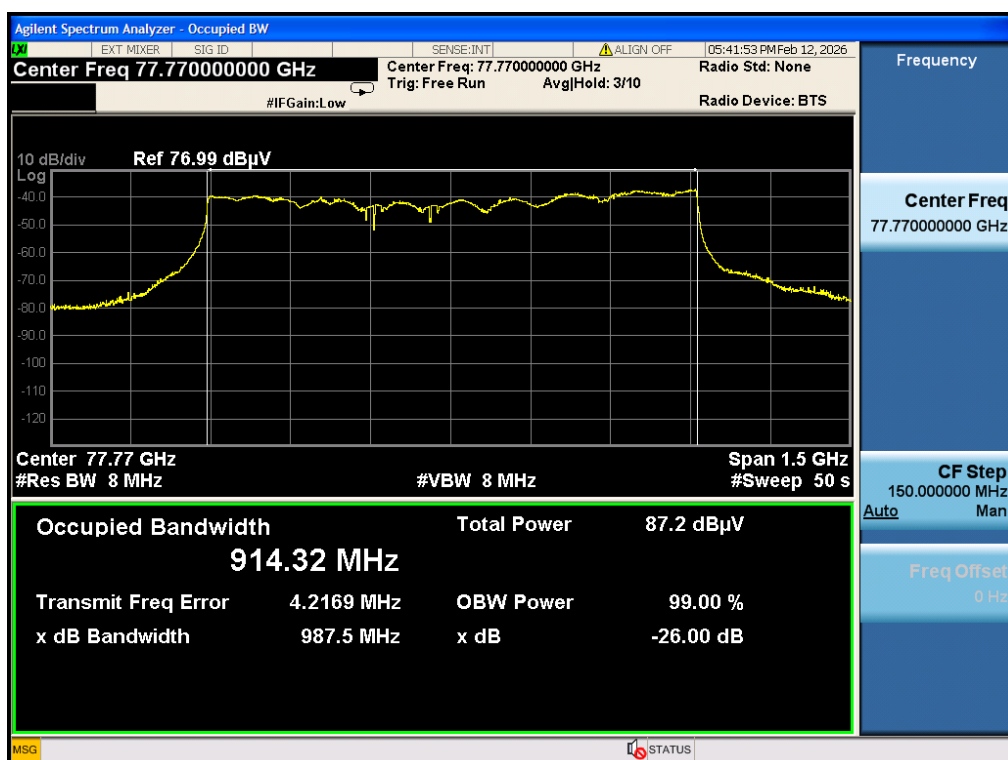
(1) Left(Front)

Freq(GHz)		Limit Range (GHz)	OBW (MHz)	Test Result
FL	77.31771	$FL \geq 76\text{GHz}$	909.53	PASS
FH	78.22724	$FH \leq 81\text{GHz}$		



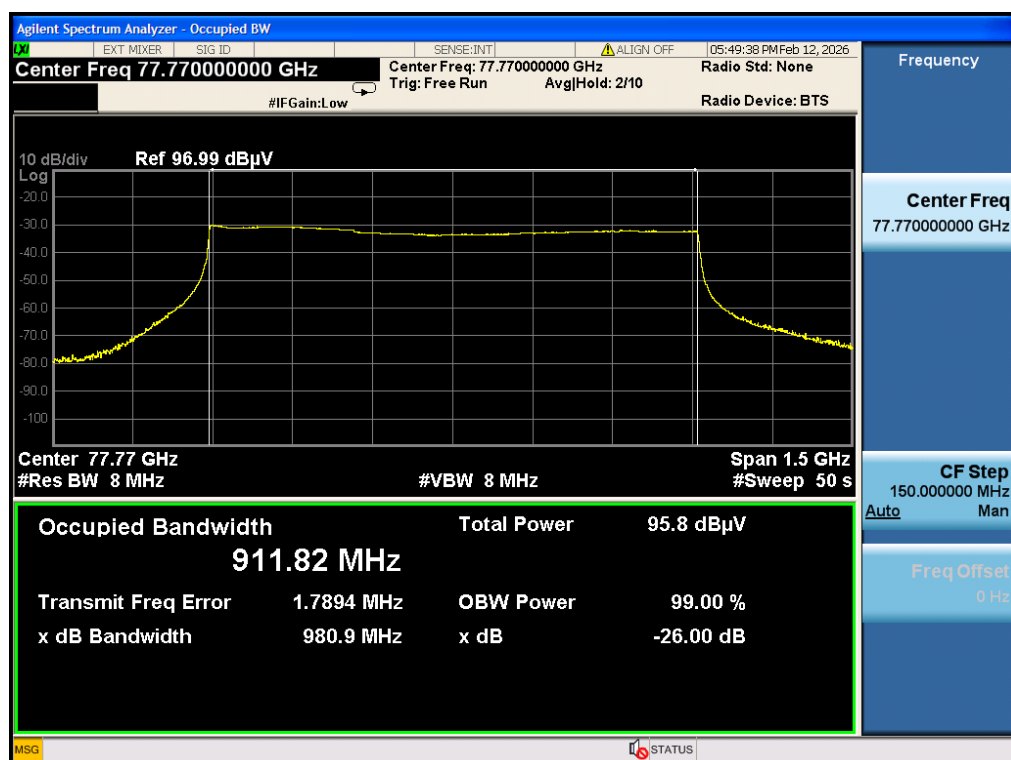
(2) Left(Rear)

Freq(GHz)		Limit Range (GHz)	OBW (MHz)	Test Result
FL	77.31706	$FL \geq 76\text{GHz}$	914.32	PASS
FH	78.23138	$FH \leq 81\text{GHz}$		



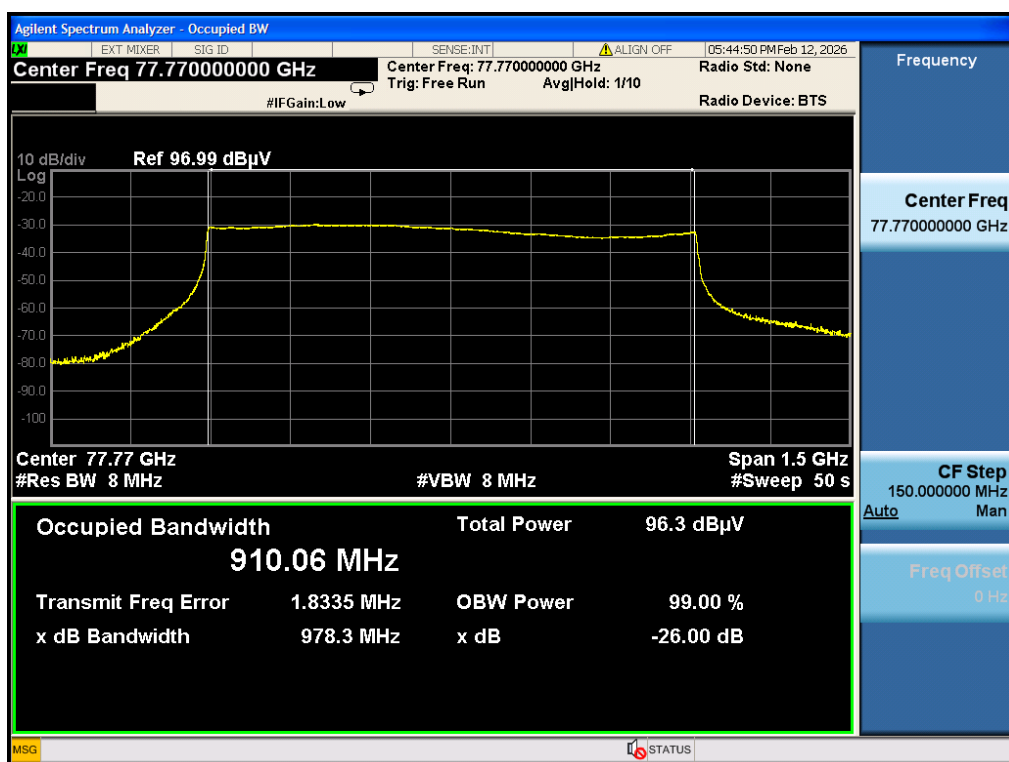
(3) Right(Front)

Freq(GHz)		Limit Range (GHz)	OBW (MHz)	Test Result
FL	77.31588	$FL \geq 76\text{GHz}$	911.82	PASS
FH	78.2277	$FH \leq 81\text{GHz}$		



(4) Right(Rear)

Freq(GHz)		Limit Range (GHz)	OBW (MHz)	Test Result
FL	77.3168	$FL \geq 76\text{GHz}$	910.06	PASS
FH	78.22686	$FH \leq 81\text{GHz}$		



- End of Test Report -