



TEST REPORT

| | | |
|---|--|---|
| Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr | Report No.: KR25-SRF0089-A Page (1) of (31) | <div style="float: right; text-align: right;"> KCTL </div> |
|---|--|---|

1. Client

- Name : HL Klemove Corp.
- Address : 10-74, 224, Harmony-ro, Yeonsu-gu, Incheon, Republic of Korea
- Date of Receipt : 2025-03-07

2. Use of Report : Certification

3. Name of Product / Model : Vehicle Radar / SRR4IS

4. Manufacturer / Country of Origin : HL Klemove Corp. / Korea

5. FCC ID : 2A3OZ-SRR4IS

6. IC : 27992-SRR4IS

7. Date of Test : 2025-03-26 to 2025-03-31

8. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

9. Test method used : FCC Part 2, FCC Part 95 Subpart M
 RSS-251 Issue 2 July 2018
 RSS-Gen Issue 5 February 2021


10. Test Result : Refer to the test result in the test report

| | | |
|-------------|---|--|
| Affirmation | Tested by <div style="display: flex; justify-content: space-between;"> Name : Seongil Choi (Signature) </div> | Technical Manager <div style="display: flex; justify-content: space-between;"> Name : Harim Lee (Signature) </div> |
|-------------|---|--|

2025-04-18

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

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| Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr | Report No.: KR25-SRF0089-A Page (2) of (31) |  |
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REPORT REVISION HISTORY

| Date | Revision | Page No |
|------------|-------------------|---------|
| 2025-04-14 | Originally issued | - |
| 2025-04-18 | Updated | 4 |
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Note. The report No. KR25-SRF0089 is superseded by the report No. KR25-SRF0089-A.

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

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1. General information

Client : HL Klemove Corp.
 Address : 10-74, 224, Harmony-ro, Yeonsu-gu, Incheon, Republic of Korea
 Manufacturer : HL Klemove Corp.
 Address : 10-74, 224, Harmony-ro, Yeonsu-gu, Incheon, Republic of Korea
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040, ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : Vehicle Radar
 Model : SRR4IS
 Modulation technique : FMCW
 Frequency range : 76 500 MHz
 Power source : DC 12 V
 Antenna specification : Waveguide Antenna
 Antenna gain : 9.2 dBi
 Software version : 1.00
 Hardware version : 1.00
 Operation temperature : -40 °C ~ 85 °C
 Test device serial No. : A8304A0000 241220 0009

2.1. Frequency/channel operations

This device contains the following capabilities:
 FMCW

| Ch. | Frequency (GHz) |
|-----|-----------------|
| 01 | 76.5 |

Table 2.1.1. FMCW

2.2. Far field distance

Far field distance(R_m)

| Freq range [MHz] | Speed of light | Freq [MHz] | wavelength(λ) [m] | Largest Antenna Dimension [m] | | Far Field Distance [m] | Measurement Distance [m] |
|---------------------|-------------------|---------------|--------------------------------|----------------------------------|----------------------|------------------------------|--------------------------------|
| | | | | Measurement Antenna | EUT | | |
| 40000 - 60000 | 300 | 60000 | 0.0050 | <u>0.0582</u> | - | 1.35 | 1.5 |
| 60000 - 90000 | 300 | 90000 | 0.0033 | <u>0.0378</u> | - | 0.86 | 1 |
| 90000 - 140000 | 300 | 140000 | 0.0021 | <u>0.0248</u> | - | 0.57 | 1 |
| 140000 - 220000 | 300 | 220000 | 0.0014 | <u>0.0158</u> | - | 0.37 | 1 |
| 220000 - 250000 | 300 | 250000 | 0.0012 | <u>0.0105</u> | - | 0.18 | 1 |
| 76000 - 81000 | 300 | 81000 | 0.0037 | 0.0378 | <u>0.0485</u> | 1.27 | 1.5 |

Note: EUT antenna dimension was provided by customer.

Note: Far-Field (Rayleigh) distance formula used is shown below (According to ANSI C63.26-2015 Section 4.4.3 Note f) $R_m = 2D^2 / \lambda$, where the R_m is the Rayleigh (far-field) distance, D is the largest dimension of the antenna aperture and λ is the free-space wavelength in meters at the frequency of measurement (calculated by speed of light divided by frequency).

Note: For fundamental or out-of-band emissions the far-field boundary distance of the EUT antenna or measurement antenna, whichever is largest, shall be used. For spurious and harmonic emissions the far-field boundary distance shall be based on the measurement antenna (According to ANSI C63.10-2020 Section 9.1.4)

Note: Measurements in report were made at distances greater than calculated far-field distances shown in table.

3. Summary of tests

| FCC Part section(s) | IC Rule reference | Parameter | Test condition | Test results |
|----------------------|------------------------------|--------------------------|----------------|--------------|
| 2.1049 | RSS-251(7), RSS-GEN(6.7) | Occupied Bandwidth | Radiated | Pass |
| 95.3367(a) | RSS-251(8) | Maximum power(EIRP) | | Pass |
| 95.3367(b) | RSS-251(9) | Maximum peak power(EIRP) | | Pass |
| 2.1053 95.3379(a) | RSS-251(10) RSS-GEN(6.13) | Undesirable Emissions | | Pass |

Notes:

- These test items were performed. Please refer to original report.
 - Report No. KR24-SRF0131-A issued on Oct. 16, 2024 by Eurofins KCTL Co.,Ltd.
 All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
- The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation.
- The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.10-2020
 - ANSI C63.26-2015
 - KDB 653005 D01v01r02
- Test Mode

| Test Mode | Ramp Type Operation |
|-----------|---------------------|
| TM1 | I → II |
| TM2 | III → IV |
| TM3 | I → II → III → IV |

4. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

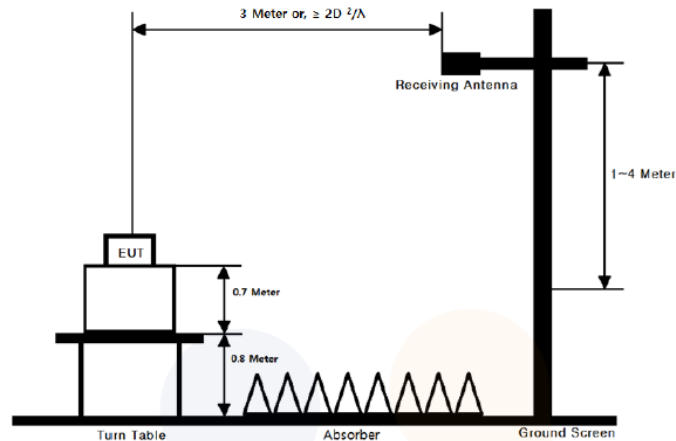
| Parameter | Expanded uncertainty (±) | |
|-----------------------------|--------------------------|--------|
| Bandwidth | 0.1 % | |
| Radiated spurious emissions | 30 MHz ~ 1 000 MHz | 2.5 dB |
| | 1 000 MHz ~ 18 000 MHz | 4.7 dB |
| | Above 18 000 GHz | 4.8 dB |

5. Test results

5.1. Occupied bandwidth

Test setup

Above 1 GHz



These measurements were performed at 3 m test site. The equipment under test is placed on a non-conductive table 1.5-meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Limit

FCC

Within the designated 76 ~ 81 GHz frequency band

According to §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.

IC

According to RSS-GEN(6.7), The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained.

The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

Test procedure

ANSI C63.10-2020 - Section 9.4

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 of a given emission.

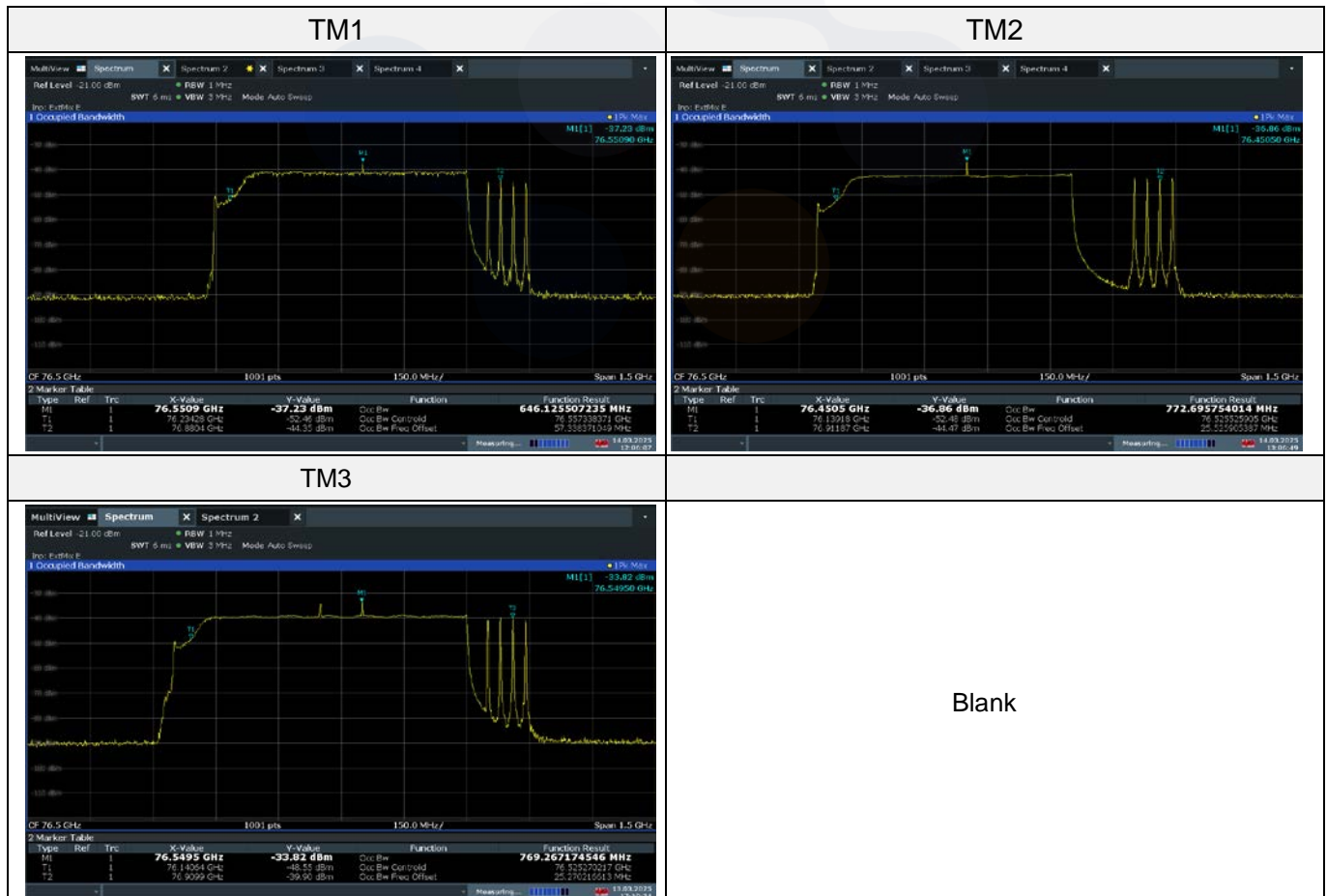
Test settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Span equal to approximately 1.5 times the OBW, centered on the carrier frequency
3. RBW = 1 ~ 5% of the expected OBW & VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trance mode = Max hold
6. Sweep = Auto couple
7. The trace was allowed to stabilize
8. If necessary, step 2 ~ 6 were repeated after changing the RBW such that it would be within 1 ~5 % of the 99 % occupied band width observed in step 6.

Note: The RBW and VBW were setting up to the limitations of the test equipment.

Test results

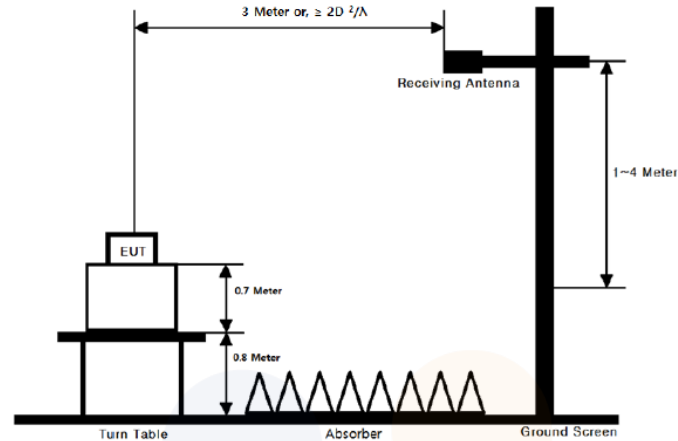
| Mode | Test Condition | Frequency Range(MHz) | Occupied Bandwidth(MHz) |
|------|----------------|----------------------|-------------------------|
| TM1 | NTNV | 76 500 | 646.13 |
| TM2 | NTNV | 76 500 | 772.70 |
| TM3 | NTNV | 76 500 | 769.27 |



5.2. The Maximum Power(EIRP) & Maximum Peak Power(EIRP)

Test setup

Above 1 GHz



These measurements were performed at 3 m test site. The equipment under test is placed on a non-conductive table 1.5-meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Limit

FCC

According to § 95.3367, 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:

- (a) 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).
- (b) 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.

IC

According to RSS-251(8) Average equivalent isotropically radiated power (e.i.r.p.),
The radar device's total average e.i.r.p. shall not exceed 50 dBm over the occupied bandwidth.

According to RSS-251(9) Peak e.i.r.p. spectral density,
The radar device's peak e.i.r.p. spectral density shall not exceed 55 dBm/MHz.

Test procedure

ANSI C63.10-2020 - Section 9
ANSI C63.26-2015 - Section 5
KDB 653005 D01v01r02 – Section 4

Test setting

-Maximum power(EIRP) – Averaging detector

Note: The maximum power(averaging detector) measurements are performed using the “channel power” measurement capability and integrated over the 99 % OBW to obtain the result.

1. Measurement capability of instrument = channel power
2. Set RBW = 1 MHz
3. Set VBW $\geq 3 \times$ RBW
4. span to 2 x to 3 x the OBW
5. Channel bandwidth setting of instrument \geq OBW
6. Detector = power averaging (rms)
7. Set number of points in sweep $\geq 2 \times$ span / RBW
8. Sweep time = auto-couple
9. Trace = averaging

-Maximum peak power(EIRP) – Peak detector

1. Set RBW = 1 MHz
2. Set VBW $\geq 3 \times$ RBW
3. span to 2 x to 3 x the OBW
4. Detector = Peak
5. Set number of points in sweep $\geq 2 \times$ span / RBW
6. Sweep time = auto-couple
7. Trace = max-hold

Note1.

Sample Calculation

$E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured level}(\text{dB}\mu\text{V}) + 107 + \text{AFCL}(\text{dB}/\text{m})$

Where, E=field strength / AFCL= Antenna Factor(dB/m) + Cable Loss(dB/m)

The mixer loss was applied to the measured level by SA correction factor.

$\text{EIRP}(\text{dBm}) = E(\text{dB}\mu\text{V}/\text{m}) + 20\log(D) - 104.8$; where, D is measurement distance(in the far field region) in m.

Note2.

P.C.F Calculation (P.C.F=Peak amplitude correction factor of the FMCW signal)

$$\text{P.C.F} = 20 \cdot \log_{10}(1/\alpha) \approx 6.458 \text{ dB}$$

$$\alpha = \frac{1}{\sqrt[4]{1 + \left(\frac{2\ln(2)}{\pi}\right)^2 \left(\frac{F_S}{T_{SB}^2}\right)^2}}$$

(P.C.F have been declared by the manufacturer.)

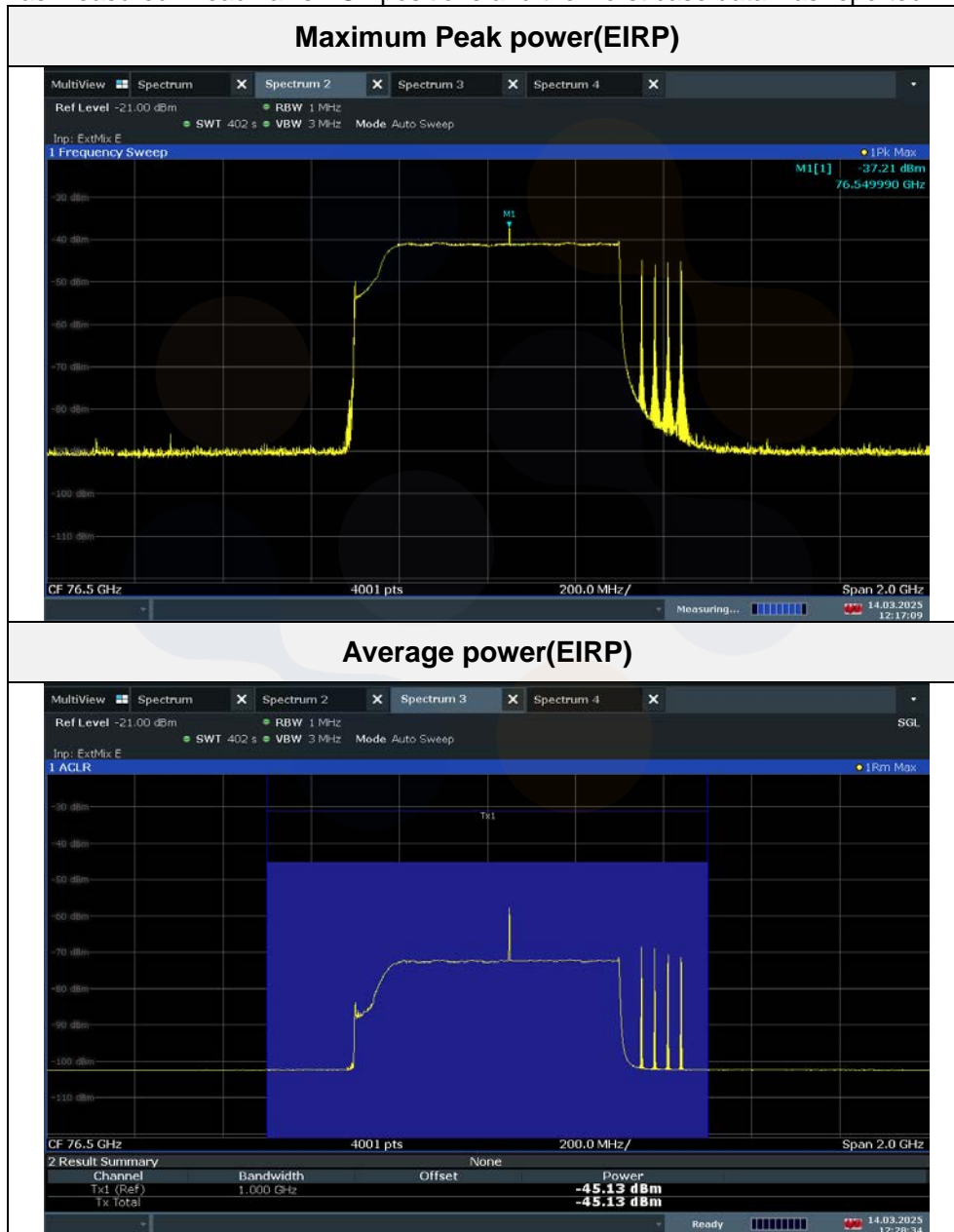
Test results

TM1

| Measurement distance(D) | Frequency (GHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dBm) | AFCL (dB/m) | P.C.F (dB) | E (dB μ V/m) | EIRP (dBm) | Limit (dBm) |
|-------------------------|-----------------|---------|---------------------|---------------|----------------------|-------------|------------|------------------|------------|-------------|
| 1.5 m | 76.55 | V | X | Peak | -37.21 | 54.88 | 6.46 | 131.13 | 29.85 | 55.00 |
| 1.5 m | 76.50 | V | X | Average | -45.13 | 54.52 | - | 116.39 | 15.11 | 50.00 |

Note.

1. The EIRP was measured in each axis EUT positions and the worst case data was reported.

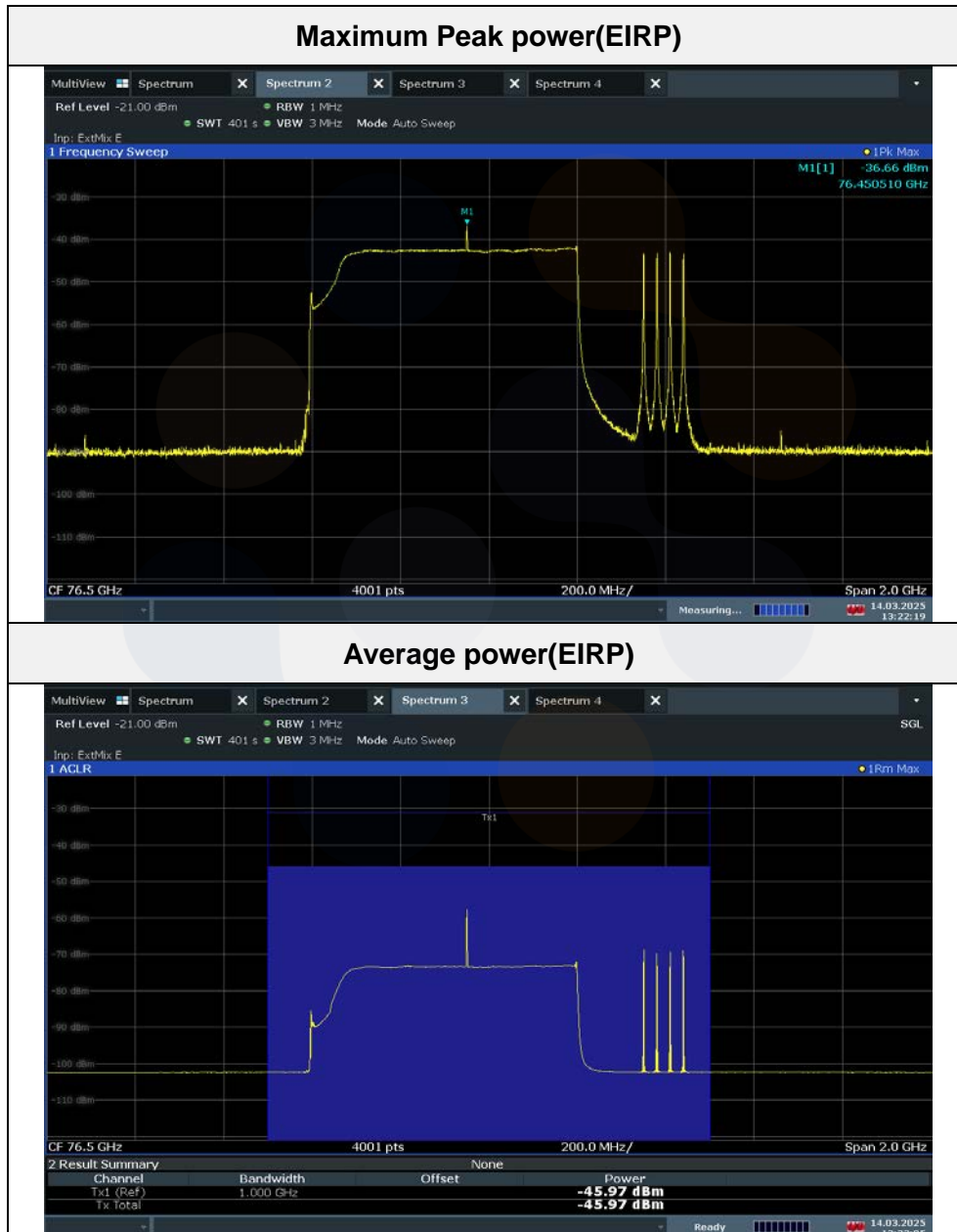


TM2

| Measurement distance(D) | Frequency (GHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dBm) | AFCL (dB/m) | P.C.F (dB) | E (dBμV/m) | EIRP (dBm) | Limit (dBm) |
|-------------------------|-----------------|---------|---------------------|---------------|----------------------|-------------|------------|------------|------------|-------------|
| 1.5 m | 76.45 | V | X | Peak | -36.66 | 54.86 | 6.46 | 131.66 | 30.38 | 55.00 |
| 1.5 m | 76.50 | V | X | Average | -45.97 | 54.52 | - | 115.55 | 14.27 | 50.00 |

Note.

1. The EIRP was measured in each axis EUT positions and the worst case data was reported.

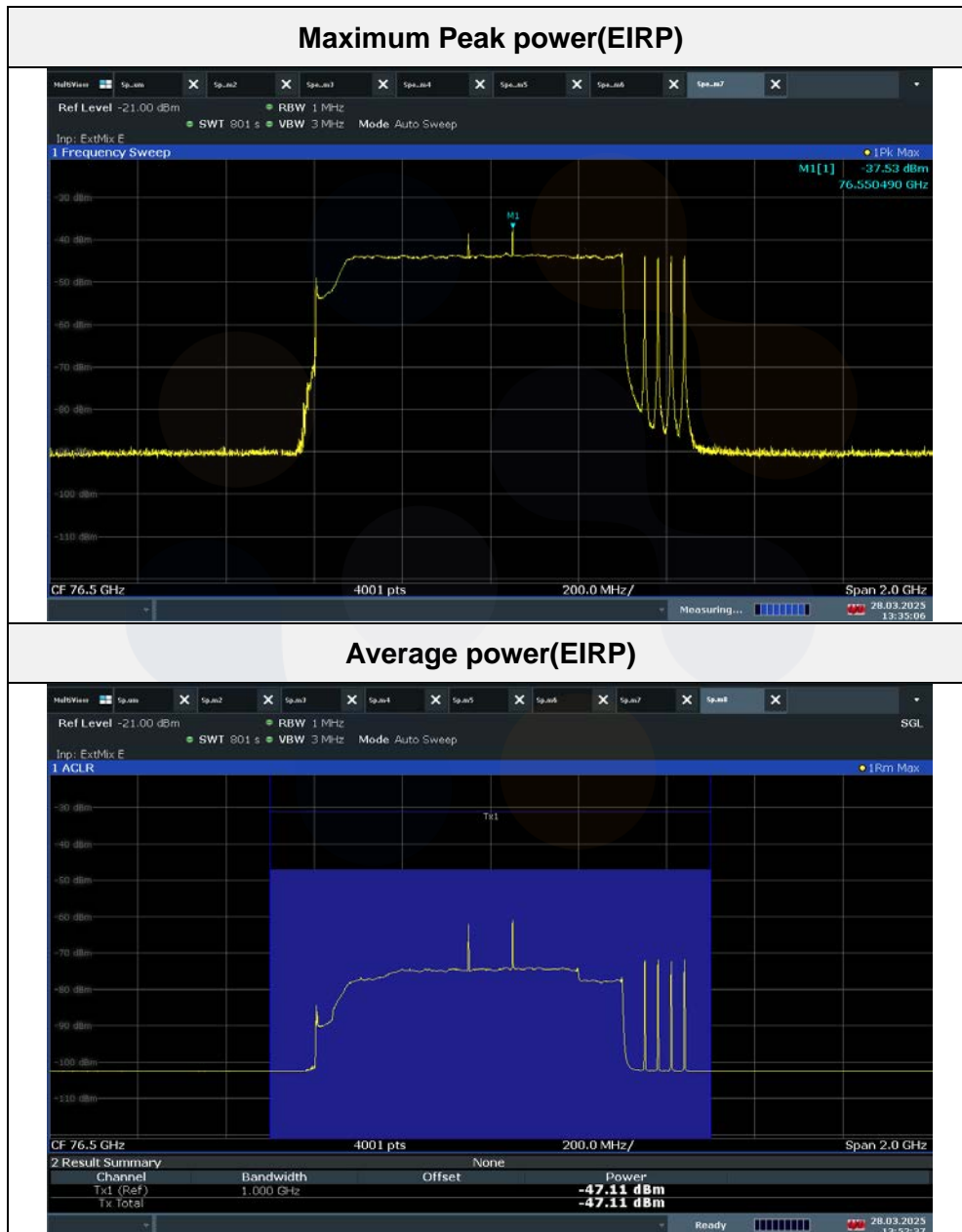


TM3

| Measurement distance(D) | Frequency (GHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dBm) | AFCL (dB/m) | P.C.F (dB) | E (dBμV/m) | EIRP (dBm) | Limit (dBm) |
|-------------------------|-----------------|---------|---------------------|---------------|----------------------|-------------|------------|------------|------------|-------------|
| 1.5 m | 76.55 | V | X | Peak | -37.53 | 54.88 | 6.46 | 130.81 | 29.53 | 55.00 |
| 1.5 m | 76.50 | V | X | Average | -47.11 | 54.52 | - | 114.41 | 13.13 | 50.00 |

Note.

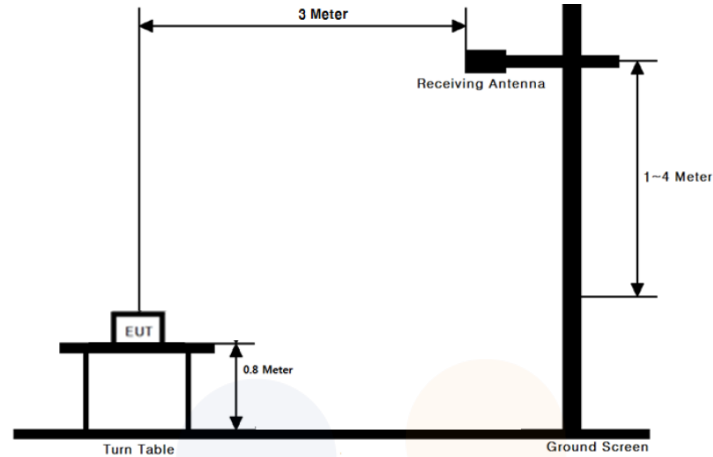
- The EIRP was measured in each axis EUT positions and the worst case data was reported.



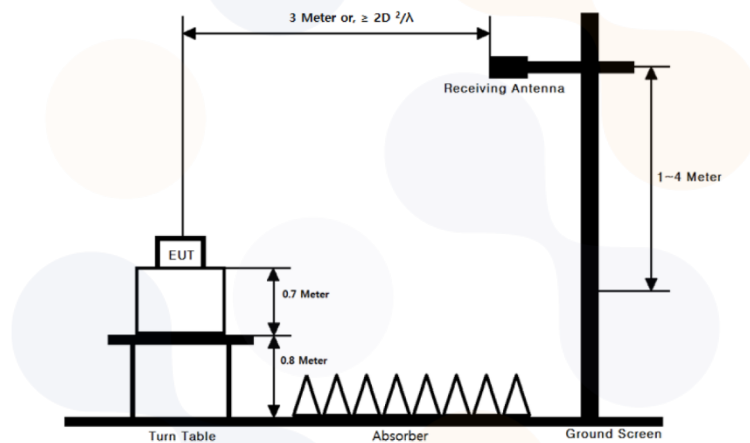
5.3. Undesirable emissions

Test setup

Below 1 GHz



Above 1 GHz



These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 1.5-meters above a turntable which is flush with the ground plane and 3 meters(for below 1 GHz: 0.8-m) from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

Limit

FCC

(a) The power density of any emissions outside the 76-81 GHz band shall consist solely of spurious emissions and shall not exceed the following:

(1) Radiated emissions below 40 GHz shall not exceed the field strength as shown in the following emissions table.

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|--------------------------------------|----------------------------------|
| 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 |

(i) In the emissions table in paragraph (a)(1) of this section, the tighter limit applies at the band edges.

(ii) The limits in the table in paragraph (a)(1) of this section are based on the frequency of the unwanted emissions and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.

(iii) The emissions limits shown in the table in paragraph (a)(1) of this section are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9.0-90.0 kHz, 110.0-490.0 kHz, and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector with a 1 MHz RBW.

(2) The power density of radiated emissions outside the 76-81 GHz band above 40.0 GHz shall not exceed the following, based on measurements employing an average detector with a 1 MHz RBW:

(i) 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.

(ii) 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.

(3) For field disturbance sensors and radar systems operating in the 76-81 GHz band, the spectrum shall be investigated up to 231.0 GHz.

According to section 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|-----------------------|-----------------------|-------------------|---------------|
| 0.009 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| 0.495 - 0.505 | 16.694 75 - 16.695 25 | 608 - 614 | 5.35 - 5.46 |
| 2.173 5 - 2.190 5 | 16.804 25 - 16.804 75 | 960 - 1 240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1 300 - 1 427 | 8.025 - 8.5 |
| 4.177 25 - 4.177 75 | 37.5 - 38.25 | 1 435 - 1 626.5 | 9.0 - 9.2 |
| 4.207 25 - 4.207 75 | 73 - 74.6 | 1 645.5 - 1 646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1 660 - 1 710 | 10.6 - 12.7 |
| 6.267 75 - 6.268 25 | 108 - 121.94 | 1 718.8 - 1 722.2 | 13.25 - 13.4 |
| 6.311 75 - 6.312 25 | 123 - 138 | 2 200 - 2 300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2 310 - 2 390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.524 75 - 156.525 | 2 483.5 - 2 500 | 17.7 - 21.4 |
| 8.376 25 - 8.386 75 | 25 | 2 690 - 2 900 | 22.01 - 23.12 |
| 8.414 25 - 8.414 75 | 156.7 - 156.9 | 3 260 - 3 267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.012 5 - 167.17 | 3 332 - 3 339 | 31.2 - 31.8 |
| 12.519 75 - 12.520 25 | 167.72 - 173.2 | 3 345.8 - 3 358 | 36.43 - 36.5 |
| 12.576 75 - 12.577 25 | 240 - 285 | 3 600 - 4 400 | Above 38.6 |
| 13.36 - 13.41 | 322 - 335.4 | | |

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in section 15.209. At frequencies equal to or less than 1 000 MHz, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 MHz, compliance with the emission limits in section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in section 15.35 apply to these measurements.

IC

According to RSS-251(10.2), The radar device's unwanted emissions outside the 76-81 GHz frequency band shall comply with the limits in table 1, below.

Table 1: Unwanted emissions limits outside the 76-81 GHz frequency band

| Emission frequency range | Limit | Applicable detector |
|--------------------------|--|----------------------|
| Below 40 GHz | RSS-Gen general field strength limits for licence-exempt radio apparatus | RSS-Gen requirements |
| 40-162 GHz* | -30 dBm/MHz (e.i.r.p.) | RMS detector |

Note:

* For radar devices that operate solely in the 76-77 GHz band (i.e. the occupied bandwidth is entirely contained in the 76-77 GHz band), an unwanted emissions limit of 0 dBm/MHz shall apply for the unwanted emission that fall in the 73.5-76 GHz band. Outside of the 73.5-76 GHz band, the unwanted emission limits prescribed in table 1 shall apply.

According to RSS-Gen(8.9), Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5- General field strength limits at frequencies above 30 MHz

| Frequency(MHz) | Field strength (μ V/m at 3 m) |
|----------------|---------------------------------------|
| 30 to 88 | 100 |
| 88 to 216 | 150 |
| 216 to 960 | 200 |
| Above 960 | 500 |

Table 6- General field strength limits at frequencies below 30 MHz

| Frequency | Magnetic field strength (H-Field) (μ A/m) | Measurement distance(m) |
|---------------------------|---|----------------------------|
| 9 – 490 kHz ¹⁾ | 6.37/F (F in kHz) | 300 |
| 490 – 1705 kHz | 63.7/F (F in kHz) | 30 |
| 1.705 - 30 MHz | 0.08 | 30 |

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

According to RSS-Gen(8.10), Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

- The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).
- Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.
- Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.


Table 7- Restricted frequency bands*

| MHz | MHz | GHz |
|---------------------|-----------------------|---------------|
| 0.090 - 0.110 | 149.9 - 150.05 | 9.0 - 9.2 |
| 0.495 - 0.505 | 156.52475 - 156.52525 | 9.3 - 9.5 |
| 2.1735 - 2.1905 | 156.7 - 156.9 | 10.6 - 12.7 |
| 3.020 - 3.026 | 162.0125 - 167.17 | 13.25 - 13.4 |
| 4.125 - 4.128 | 167.72 - 173.2 | 14.47 - 14.5 |
| 4.17725 - 4.17775 | 240 - 285 | 15.35 - 16.2 |
| 4.20725 - 4.20775 | 322 - 335.4 | 17.7 - 21.4 |
| 5.677 - 5.683 | 399.9 - 410 | 22.01 - 23.12 |
| 6.215 - 6.218 | 608 - 614 | 23.6 - 24.0 |
| 6.26775 - 6.26825 | 960 - 1427 | 31.2 - 31.8 |
| 6.31175 - 6.31225 | 1435 - 1626.5 | 36.43 - 36.5 |
| 8.291 - 8.294 | 1645.5 - 1646.5 | Above 38.6 |
| 8.362 - 8.366 | 1660 - 1710 | |
| 8.37625 - 8.38675 | 1718.8 - 1722.2 | |
| 8.41425 - 8.41475 | 2200 - 2300 | |
| 12.29 - 12.293 | 2310 - 2390 | |
| 12.51975 - 12.52025 | 2483.5 - 2500 | |
| 12.57675 - 12.57725 | 2655 - 2900 | |
| 13.36 - 13.41 | 3260 - 3267 | |
| 16.42 - 16.423 | 3332 - 3339 | |
| 16.69475 - 16.69525 | 3345.8 - 3358 | |
| 16.80425 - 16.80475 | 3500 - 4400 | |
| 25.5 - 25.67 | 4500 - 5150 | |
| 37.5 - 38.25 | 5350 - 5460 | |
| 73 - 74.6 | 7250 - 7750 | |
| 74.8 - 75.2 | 8025 - 8500 | |
| 108 - 138 | -- | |

* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

Test procedure

ANSI C63.26-2015 - Section 5.5
ANSI C63.10-2020 - Section 9.10

| | | |
|--|---|---|
| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR25-SRF0089-A Page (19) of (31)</p> |  |
|--|---|---|

Test settings

Below 1 GHz

RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector= Peak or Quasi Peak

1 ~ 40 GHz

Peak Measurement

RBW: 1 MHz, VBW= 3 MHz, Detector = Peak, Sweep time = Auto,
Trace mode = Max Hold until the trace stabilizes

Average Measurement

RBW: 1 MHz, VBW= 3 MHz, Detector = RMS, Sweep time = Auto,
Trace mode = Averaging or Max Hold

Above 40 GHz

Average Measurement

RBW: 1 MHz, VBW= 3 MHz, Detector = RMS, Sweep time = N * Transmission Time*Span/RBW,
Trace mode = Averaging or Max Hold

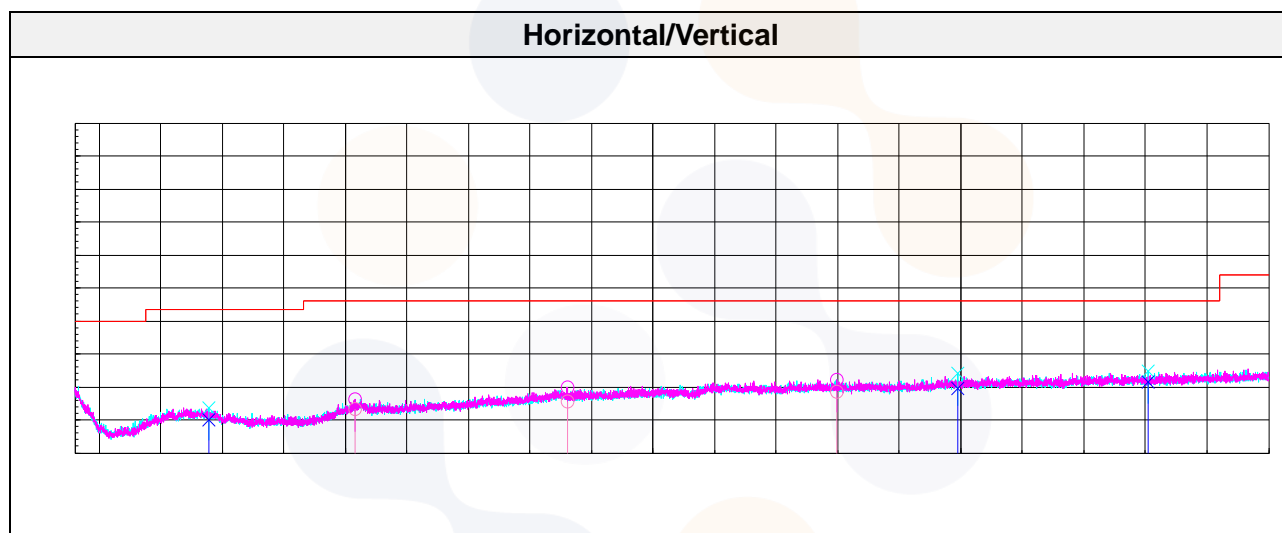
The limits in CFR 47, part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of $377\ \Omega$. For example, the measurement frequency X kHz resulted in a level of Y dB μ V/m, which is equivalent to $Y - 51.5 = Z$ dB μ V/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209 (a) limit.

Test results

TM1

Frequency Range: 30 MHz ~ 1 GHz

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dB μ V) | A.F (dB/m) | A.C (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-----------------|---------|---------------------|---------------|-----------------------------|------------|----------|-------------------------|------------------------|-------------|
| 139.25 | V | | QP | 24.00 | 17.48 | -31.35 | 10.13 | 43.50 | 33.37 |
| *257.47 | H | | QP | 25.10 | 19.32 | -31.11 | 13.31 | 46.00 | 32.69 |
| 430.00 | H | | QP | 23.80 | 22.50 | -30.84 | 15.46 | 46.00 | 30.54 |
| 649.22 | H | | QP | 24.00 | 24.90 | -30.28 | 18.62 | 46.00 | 27.38 |
| 747.56 | V | | QP | 24.00 | 25.70 | -30.09 | 19.61 | 46.00 | 26.39 |
| 902.03 | V | | QP | 23.80 | 26.50 | -28.91 | 21.39 | 46.00 | 24.61 |



Note.

1. No other spurious and harmonic emissions were found above listed frequencies.

2. Information of Distance Factor

For finding emissions, the test distance might be reduced. In this case, the distance factor is applied to the result.

-Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance})$

When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

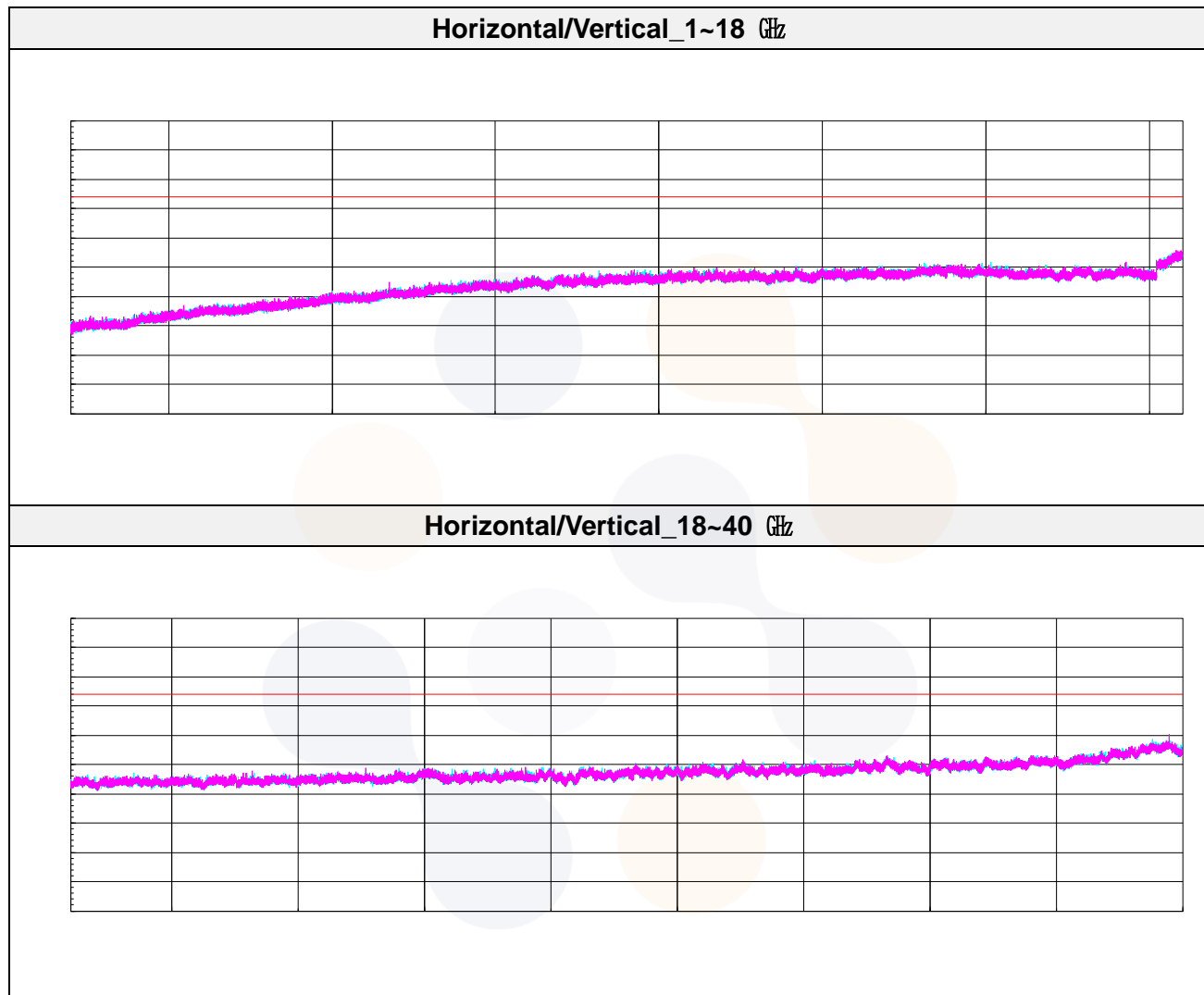
3. Sample Calculation.

Margin=Limit - Result / Result = Measured Level + A.F + A.C

Where, T.F= Total Factor, A.F= Antenna Factor, A.C= Amp. + Cable Loss

Frequency Range: 1 GHz ~ 40 GHz

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dB(μV)) | T.F (dB/m) | Distance Factor (dB) | Result (dB(μV/m)) | Limit (dB(μV/m)) | Margin (dB) |
|--------------------------------------|---------|---------------------|---------------|-------------------------|------------|----------------------|-------------------|------------------|-------------|
| No spurious emissions were detected. | | | | | | | | | |



Note.

1. No other spurious and harmonic emissions were found above listed frequencies.
2. Information of Distance Factor
 For finding emissions, the test distance might be reduced. In this case, the distance factor is applied to the result.
 -Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance})$
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.
3. Sample Calculation.
 $\text{Margin} = \text{Limit} - \text{Result} / \text{Result} = \text{Measured Level} + \text{T.F} + \text{Distance factor} / \text{T.F} = \text{AF} + \text{CL} - \text{AG}$
 Where, T.F= Total Factor, AF= Antenna Facotr, CL= Cable Loss, AG= Amplifier Gain
4. *Noise floor.

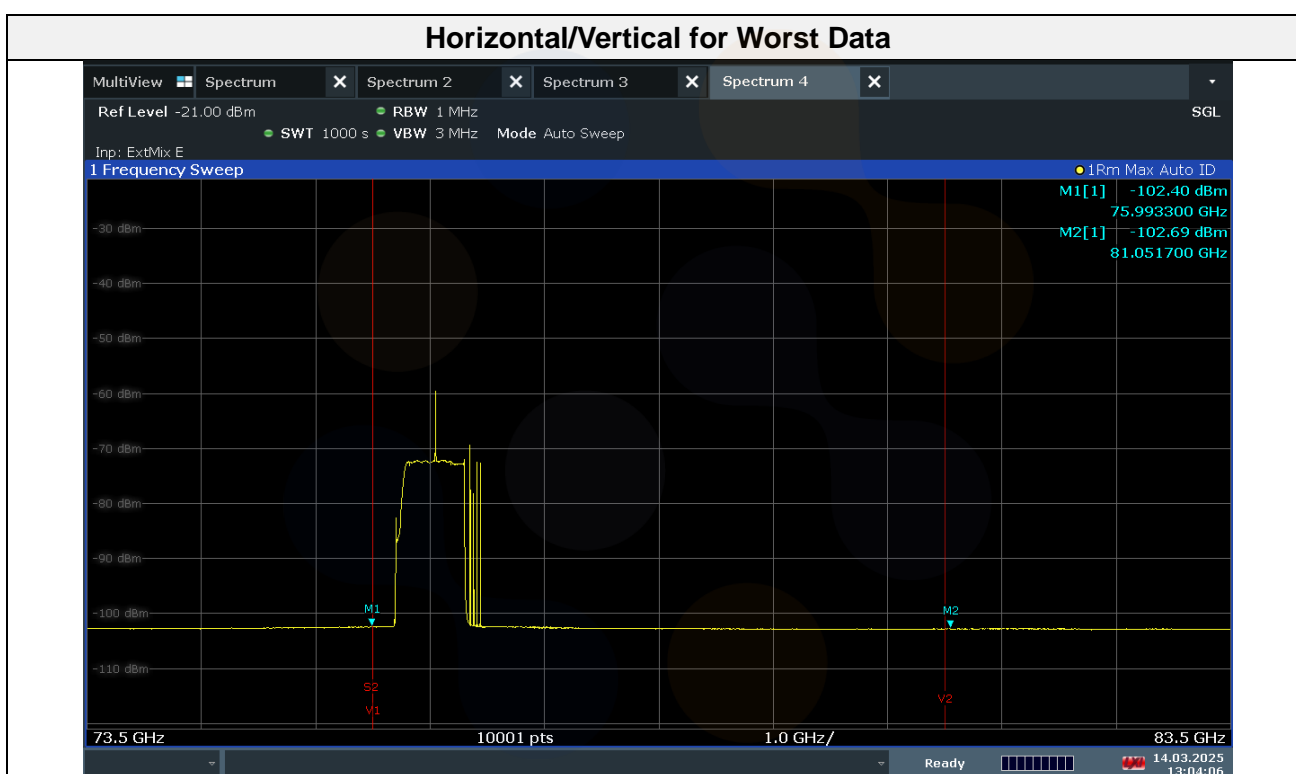
Frequency Range: 73.5 GHz ~ 83.5 GHz

- FCC

| Frequency (GHz) | ANT Pol | EUT Position (Axis) | Measured Level (dBm) | AFCL (dB/m) | E (dB(μV/m)) | EIRP (dBm) | Power density (pW/cm ²) | Limit (pW/cm ²) |
|-----------------|---------|---------------------|----------------------|-------------|--------------|------------|-------------------------------------|-----------------------------|
| 75.99 | V | X | -102.40 | 54.50 | 59.10 | -45.70 | 0.21 | 600.00 |
| 81.05 | V | X | -102.69 | 57.56 | 61.87 | -42.93 | 0.40 | 600.00 |

- IC

| Frequency (GHz) | ANT Pol | EUT Position (Axis) | Measured Level (dBm) | AFCL (dB/m) | E (dB(μV/m)) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------|---------------------|----------------------|-------------|--------------|------------|-------------|-------------|
| 75.99 | V | X | -102.40 | 54.50 | 59.10 | -45.70 | -30.00 | 15.70 |
| 81.05 | V | X | -102.69 | 57.56 | 61.87 | -42.93 | -30.00 | 12.93 |



Note.

1. The radiated emissions were investigated up to 243 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

2. Sample Calculation.

$$E(\text{dB}\mu\text{V/m}) = \text{Measured level (dBm)} + 107 + \text{AFCL}(\text{dB/m})$$

The mixer loss was applied to the measured level by SA correction factor.

Where, E=field strength / AFCL = Antenna Factor(dB/m) + Cable Loss(dB/m)

$\text{EIRP}(\text{dBm}) = E(\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8$; where, D is measurement distance(in the far field region) in m.

$$\text{PD} = \text{EIRP}_{\text{Linear}} / 4\pi d^2$$

Where, PD = the power density at the distance specified by the limit, in W/m^2

$\text{EIRP}_{\text{Linear}} = \text{EIRP}$, in watts

D= is the distance at which the power density limit is specified, in m

3.*Noise floor

4. Band edge test results.

Frequency Range: 40 GHz ~ 243 GHz

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Measured Level (dBm) | AFCL (dB/m) | E (dB(μV/m)) | EIRP (dBm) | Power density (pW/cm ²) | Limit (pW/cm ²) |
|-----------------|---------|---------------------|----------------------|-------------|--------------|------------|-------------------------------------|-----------------------------|
| 44.70 | V | X | -102.83 | 51.80 | 55.97 | -45.30 | 0.10 | 600.00 |
| 72.80 | V | X | -100.71 | 66.66 | 72.95 | -31.85 | 5.20 | 600.00 |
| 83.50 | V | X | -99.74 | 69.42 | 76.68 | -28.12 | 12.26 | 600.00 |
| 114.37 | V | X | -108.28 | 62.35 | 61.07 | -43.73 | 0.34 | 600.00 |
| 142.44 | V | X | -108.52 | 68.67 | 67.15 | -37.65 | 1.37 | 600.00 |
| 234.07 | V | X | -94.51 | 72.80 | 85.29 | -19.51 | 89.03 | 1 000.00 |

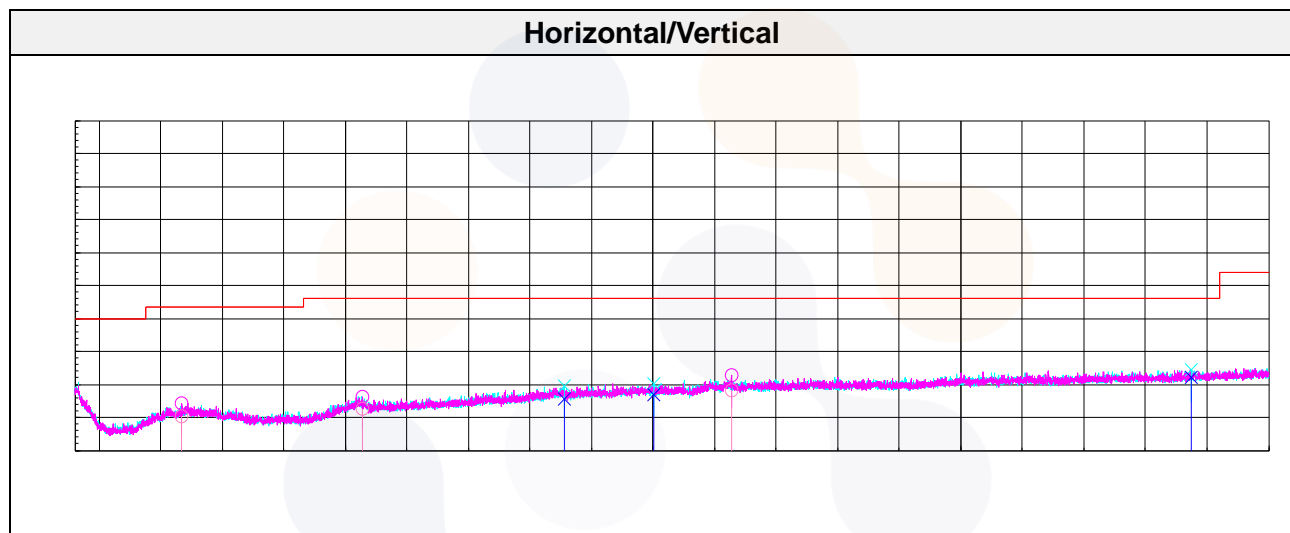
Note.

1. The worst case was based on maximum power(EIRP) of the test mode.
2. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Radiated emissions measured in frequency above 1000 MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
5. Total = Reading Value + Antenna Factor + Cable Loss - Amplifier Gain + Distance Factor

TM2

Frequency Range: 30 MHz ~ 1 GHz

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dBμV) | A.F (dB/m) | A.C (dB) | Result (dB(μV/m)) | Limit (dB(μV/m)) | Margin (dB) |
|-----------------|---------|---------------------|---------------|-----------------------|------------|----------|-------------------|------------------|-------------|
| *117.06 | H | | QP | 24.10 | 17.80 | -31.55 | 10.35 | 43.50 | 33.15 |
| *264.13 | H | | QP | 23.90 | 19.57 | -30.96 | 12.51 | 46.00 | 33.49 |
| 427.70 | V | | QP | 23.80 | 22.72 | -30.82 | 15.70 | 46.00 | 30.30 |
| 500.69 | V | | QP | 24.10 | 23.50 | -30.80 | 16.80 | 46.00 | 29.20 |
| 563.38 | H | | QP | 24.20 | 24.60 | -30.49 | 18.31 | 46.00 | 27.69 |
| 937.19 | V | | QP | 23.80 | 26.70 | -28.52 | 21.98 | 46.00 | 24.02 |



Note.

1. No other spurious and harmonic emissions were found above listed frequencies.

2. Information of Distance Factor

For finding emissions, the test distance might be reduced. In this case, the distance factor is applied to the result.

-Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance})$

When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

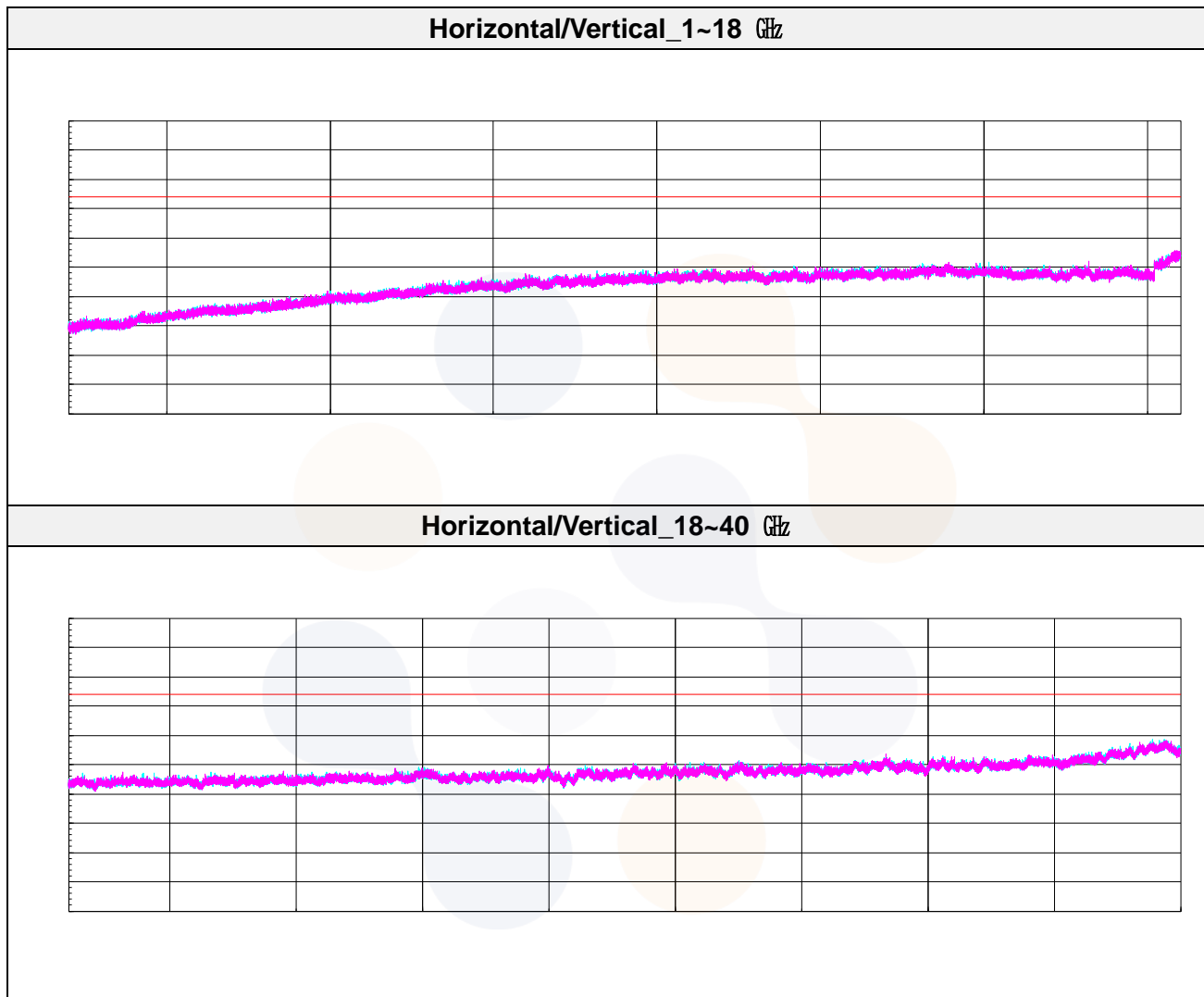
3. Sample Calculation.

Margin=Limit - Result / Result = Measured Level + A.F + A.C

Where, T.F= Total Factor, A.F= Antenna Factor, A.C= Amp. + Cable Loss

Frequency Range: 1 GHz ~ 40 GHz

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dB(μV)) | T.F (dB/m) | Distance Factor (dB) | Result (dB(μV/m)) | Limit (dB(μV/m)) | Margin (dB) |
|--------------------------------------|---------|---------------------|---------------|-------------------------|------------|----------------------|-------------------|------------------|-------------|
| No spurious emissions were detected. | | | | | | | | | |



Note.

1. No other spurious and harmonic emissions were found above listed frequencies.
2. Information of Distance Factor
 For finding emissions, the test distance might be reduced. In this case, the distance factor is applied to the result.
 -Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance})$
 When distance factor is "N/A", the distance is 3 m and distance factor is not applied.
3. Sample Calculation.
 $\text{Margin} = \text{Limit} - \text{Result} / \text{Result} = \text{Measured Level} + \text{T.F} + \text{Distance factor} / \text{T.F} = \text{AF} + \text{CL} - \text{AG}$
 Where, T.F= Total Factor, AF= Antenna Facotr, CL= Cable Loss, AG= Amplifier Gain
4. *Noise floor.

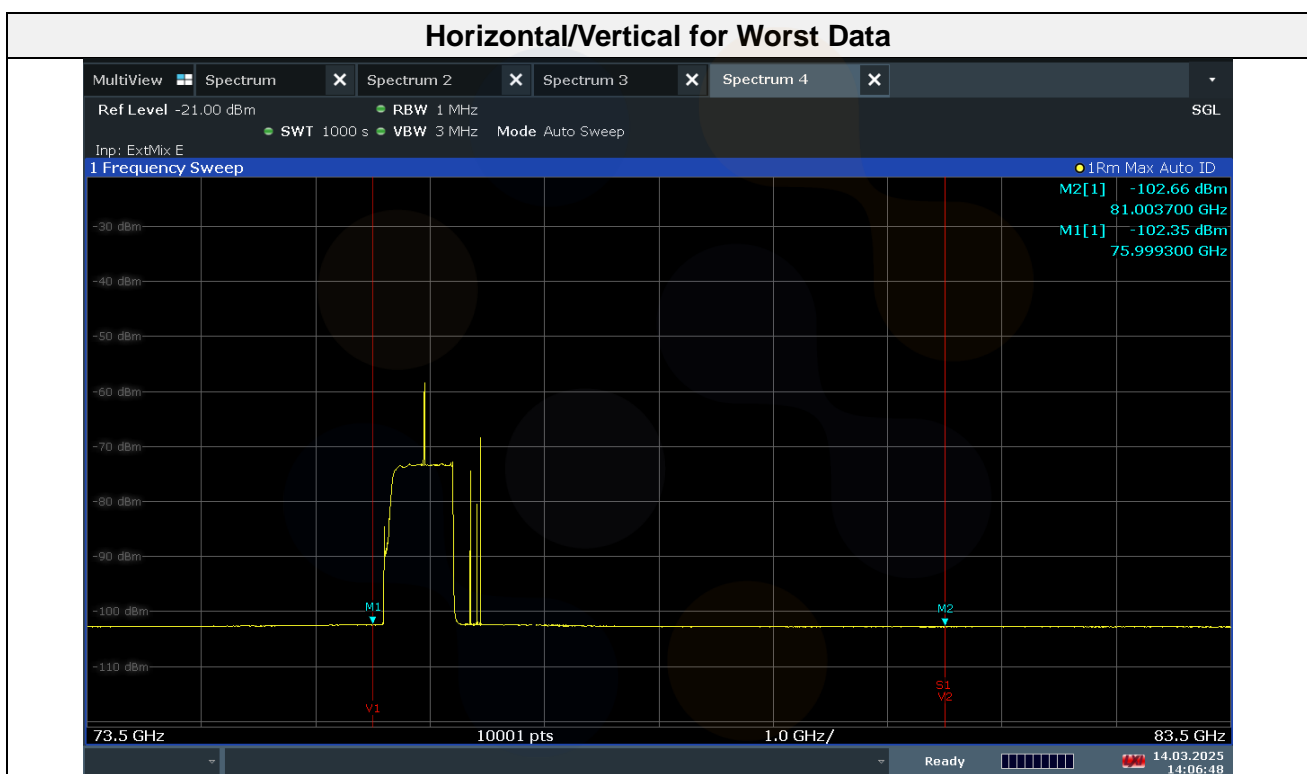
Frequency Range: 73.5 GHz ~ 83.5 GHz

- FCC

| Frequency (GHz) | ANT Pol | EUT Position (Axis) | Measured Level (dBm) | AFCL (dB/m) | E (dB(μV/m)) | EIRP (dBm) | Power density (pW/cm ²) | Limit (pW/cm ²) |
|-----------------|---------|---------------------|----------------------|-------------|--------------|------------|-------------------------------------|-----------------------------|
| 76.00 | V | X | -102.35 | 54.50 | 59.15 | -45.65 | 0.22 | 600.00 |
| 81.00 | V | X | -102.66 | 57.54 | 61.88 | -42.92 | 0.41 | 600.00 |

- IC

| Frequency (GHz) | ANT Pol | EUT Position (Axis) | Measured Level (dBm) | AFCL (dB/m) | E (dB(μV/m)) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------|---------------------|----------------------|-------------|--------------|------------|-------------|-------------|
| 76.00 | V | X | -102.35 | 54.50 | 59.15 | -45.65 | -30.00 | 15.65 |
| 81.00 | V | X | -102.66 | 57.54 | 61.88 | -42.92 | -30.00 | 12.92 |



Note.

1. The radiated emissions were investigated up to 243 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

2. Sample Calculation.

$$E(\text{dB}\mu\text{V/m}) = \text{Measured level (dBm)} + 107 + \text{AFCL}(\text{dB/m})$$

The mixer loss was applied to the measured level by SA correction factor.

Where, E=field strength / AFCL = Antenna Factor(dB/m) + Cable Loss(dB/m)

$\text{EIRP}(\text{dBm}) = E(\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8$; where, D is measurement distance(in the far field region) in m.

$$\text{PD} = \text{EIRP}_{\text{Linear}} / 4\pi d^2$$

Where, PD = the power density at the distance specified by the limit, in W/m^2

$\text{EIRP}_{\text{Linear}} = \text{EIRP}$, in watts

D= is the distance at which the power density limit is specified, in m

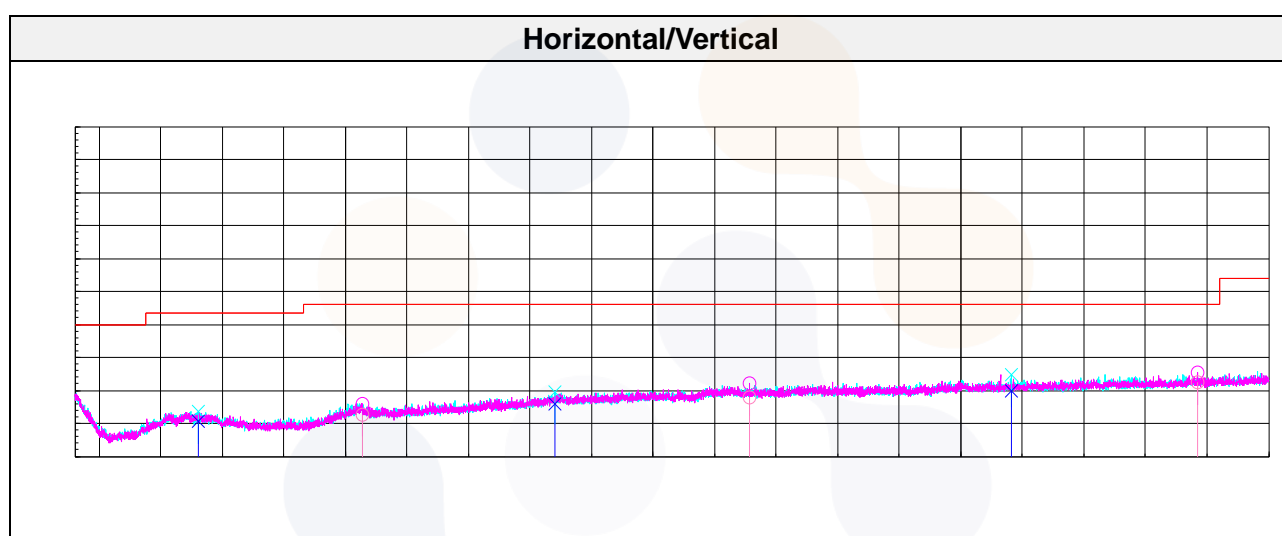
3.*Noise floor

4. Band edge test results.

TM3

Frequency Range: 30 MHz ~ 1 GHz

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dBμV) | A.F (dB/m) | A.C (dB) | Result (dB(μV/m)) | Limit (dB(μV/m)) | Margin (dB) |
|-----------------|---------|---------------------|---------------|-----------------------|------------|----------|-------------------|------------------|-------------|
| *130.64 | V | | QP | 24.10 | 17.94 | -31.51 | 10.53 | 43.50 | 32.97 |
| *264.01 | H | | QP | 23.90 | 19.60 | -30.96 | 12.54 | 46.00 | 33.46 |
| 419.82 | V | | QP | 24.00 | 22.69 | -30.68 | 16.01 | 46.00 | 29.99 |
| 578.17 | H | | QP | 23.80 | 24.50 | -30.37 | 17.93 | 46.00 | 28.07 |
| 790.97 | V | | QP | 23.90 | 25.75 | -29.77 | 19.88 | 46.00 | 26.12 |
| 941.92 | H | | QP | 24.00 | 26.80 | -28.36 | 22.44 | 46.00 | 23.56 |



Note.

1. No other spurious and harmonic emissions were found above listed frequencies.

2. Information of Distance Factor

For finding emissions, the test distance might be reduced. In this case, the distance factor is applied to the result.

-Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance})$

When distance factor is "N/A", the distance is 3 m and distance factor is not applied.

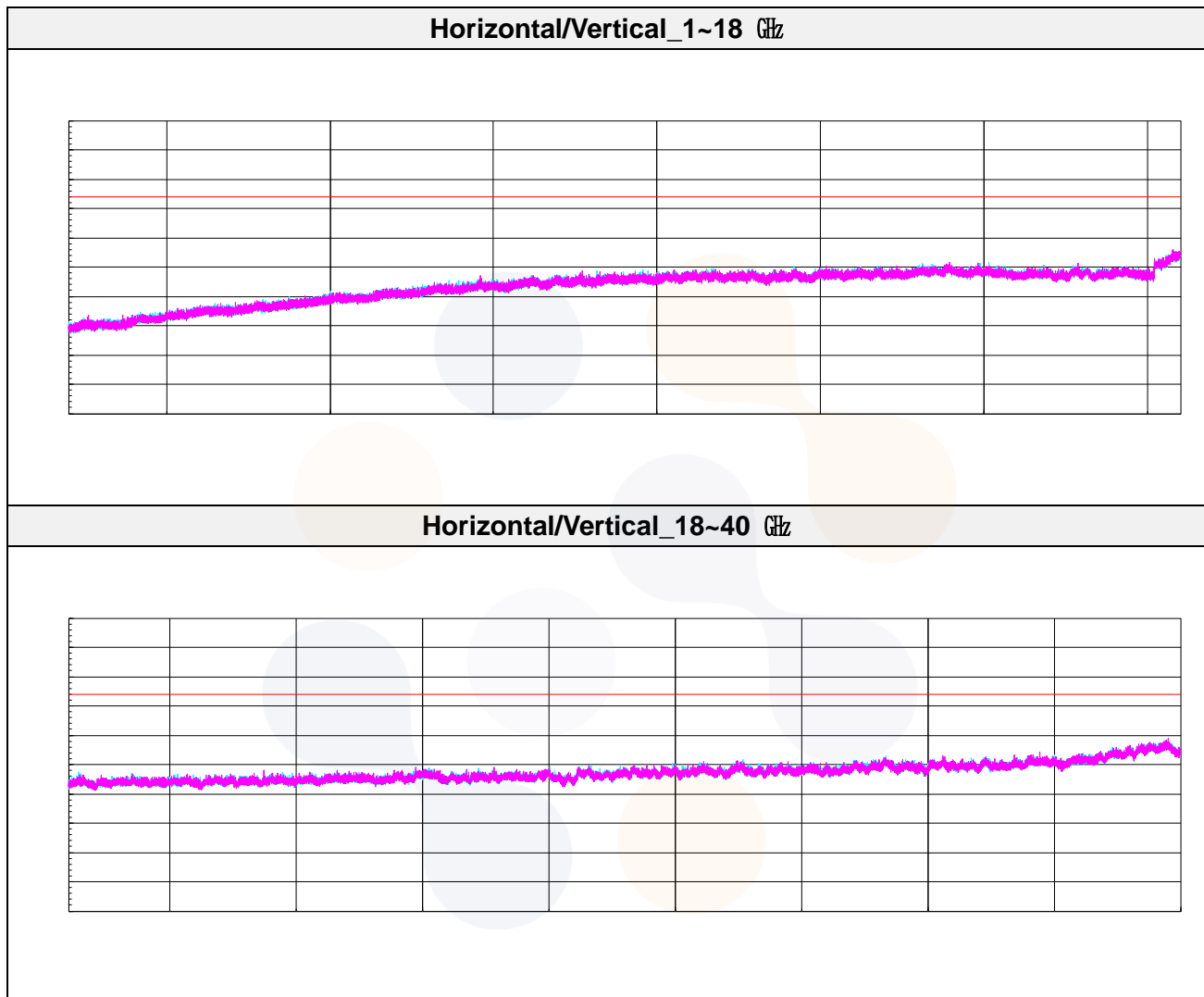
3. Sample Calculation.

Margin=Limit - Result / Result = Measured Level + A.F + A.C

Where, T.F= Total Factor, A.F= Antenna Factor, A.C= Amp. + Cable Loss

Frequency Range: 1 GHz ~ 40 GHz

| Frequency (MHz) | ANT Pol | EUT Position (Axis) | Detector Mode | Measured Level (dB(μV)) | T.F (dB/m) | Distance Factor (dB) | Result (dB(μV/m)) | Limit (dB(μV/m)) | Margin (dB) |
|--------------------------------------|---------|---------------------|---------------|-------------------------|------------|----------------------|-------------------|------------------|-------------|
| No spurious emissions were detected. | | | | | | | | | |



Note.

1. No other spurious and harmonic emissions were found above listed frequencies.
2. Information of Distance Factor
For finding emissions, the test distance might be reduced. In this case, the distance factor is applied to the result.
-Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance})$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.
3. Sample Calculation.
Margin=Limit - Result / Result = Measured Level + T.F + Distance factor / T.F = AF + CL - AG
Where, T.F= Total Factor, AF= Antenna Facotr, CL= Cable Loss, AG= Amplifier Gain
4. *Noise floor.

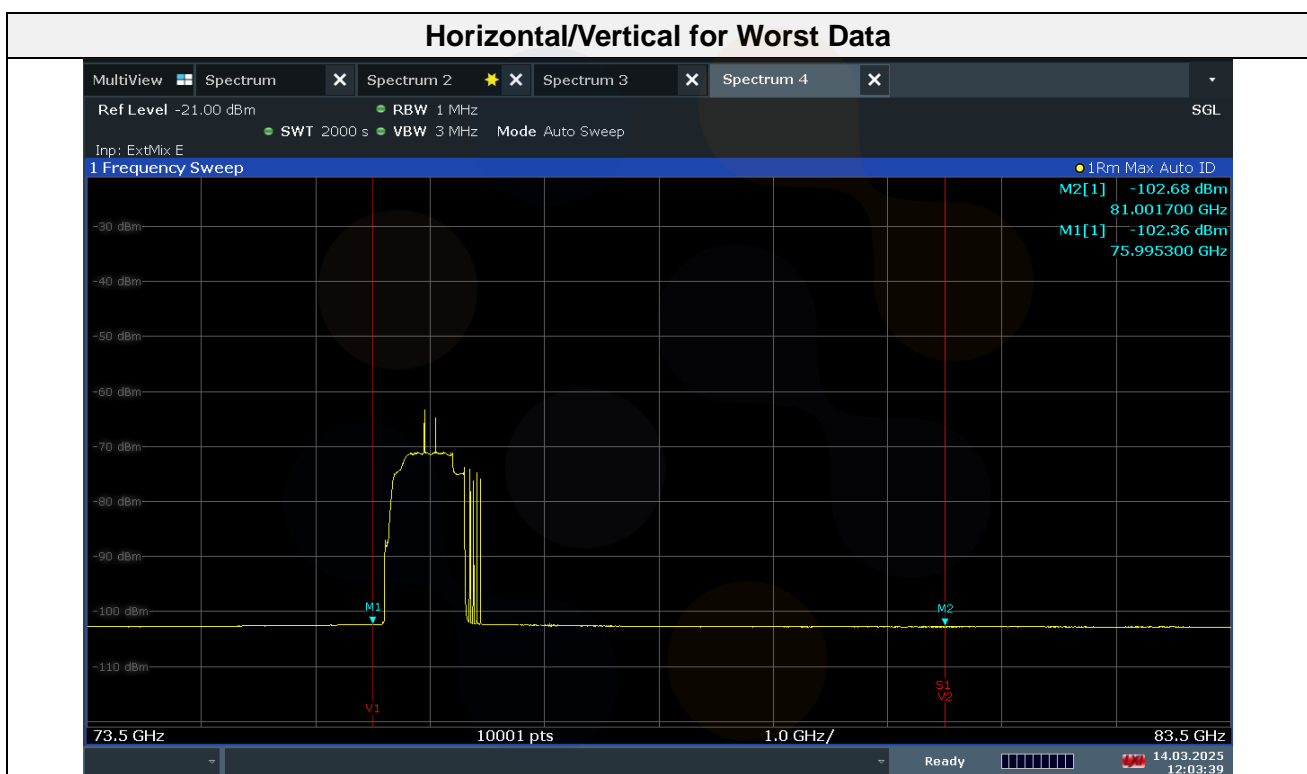
Frequency Range: 73.5 GHz ~ 83.5 GHz

- FCC

| Frequency (GHz) | ANT Pol | EUT Position (Axis) | Measured Level (dBm) | AFCL (dB/m) | E (dB(μV/m)) | EIRP (dBm) | Power density (pW/cm ²) | Limit (pW/cm ²) |
|-----------------|---------|---------------------|----------------------|-------------|--------------|------------|-------------------------------------|-----------------------------|
| 76.00 | V | X | -102.36 | 54.50 | 59.14 | -45.66 | 0.22 | 600.00 |
| 81.00 | V | X | -102.68 | 57.54 | 61.86 | -42.94 | 0.40 | 600.00 |

- IC

| Frequency (GHz) | ANT Pol | EUT Position (Axis) | Measured Level (dBm) | AFCL (dB/m) | E (dB(μV/m)) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|---------|---------------------|----------------------|-------------|--------------|------------|-------------|-------------|
| 76.00 | V | X | -102.36 | 54.50 | 59.14 | -45.66 | -30.00 | 15.66 |
| 81.00 | V | X | -102.68 | 57.54 | 61.86 | -42.94 | -30.00 | 12.94 |



Note.

1. The radiated emissions were investigated up to 243 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

2. Sample Calculation.

$$E(\text{dB}\mu\text{V/m}) = \text{Measured level (dBm)} + 107 + \text{AFCL}(\text{dB/m})$$

The mixer loss was applied to the measured level by SA correction factor.

Where, E=field strength / AFCL = Antenna Factor(dB/m) + Cable Loss(dB/m)

$\text{EIRP}(\text{dBm}) = E(\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8$; where, D is measurement distance(in the far field region) in m.

$$\text{PD} = \text{EIRP}_{\text{Linear}} / 4\pi d^2$$

Where, PD = the power density at the distance specified by the limit, in W/m^2


$\text{EIRP}_{\text{Linear}} = \text{EIRP}$, in watts

D= is the distance at which the power density limit is specified, in m

3.*Noise floor


4. Band edge test results.

4. Total = Reading Value + Antenna Factor + Cable Loss - Amplifier Gain + Distance Factor

| | | |
|---|--|---|
| Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr | Report No.: KR25-SRF0089-A Page (30) of (31) |  |
|---|--|---|

6. Measurement equipment

| Equipment Name | Manufacturer | Model No. | Serial No. | Next Cal. Date |
|---|------------------------|----------------|------------|----------------|
| UXA Signal Analyzer | KEYSIGHT | N9041B | MY60100003 | 26.01.21 |
| Spectrum Analyzer | R&S | FSW50 | 101013 | 25.07.02 |
| DC Power Supply | AGILENT | E3632A | MY40016393 | 25.07.01 |
| Millimeter Wave Source Module | OML, Inc. | S19MS-A | 190725-1 | 26.02.11 |
| Millimeter Wave Source Module | OML, Inc. | S12MS-A | 190621-1 | 25.10.15 |
| Millimeter Wave Source Module | OML, Inc. | S08MS-A | 190621-1 | 25.10.15 |
| Millimeter Wave Source Module | OML, Inc. | S05MS-A | 190621-1 | 25.10.15 |
| Millimeter Wave Source Module | OML, Inc. | S03MS-A | 190621-1 | 25.10.15 |
| Horn Antenna | OML, Inc. | M19RH | 190621-1 | 25.10.23 |
| Horn Antenna | OML, Inc. | M12RH | 190621-1 | 25.10.23 |
| Horn Antenna | OML, Inc. | M08RH | 190621-1 | 25.10.23 |
| Horn Antenna | OML, Inc. | M05RH | 190621-1 | 25.10.23 |
| Horn Antenna | OML, Inc. | M03RH | 190621-1 | 25.10.23 |
| Horn Antenna | OML, Inc. | M12RH | 190621-2 | 25.10.23 |
| mmWave Down Converter | C&K Technologies, Inc. | DC4060FS-01A | 1 | 26.02.06 |
| mmWave Down Converter | C&K Technologies, Inc. | DC6091FS-01A | 1 | 26.02.06 |
| mmWave Down Converter | C&K Technologies, Inc. | DC90140FS-01A | 1 | 26.02.06 |
| mmWave Down Converter | C&K Technologies, Inc. | DC140220FS-01A | 1 | 26.02.06 |
| mmWave Down Converter | C&K Technologies, Inc. | DC220320FS-01A | 1 | 26.02.06 |
| Horn Antenna | OML, Inc. | M19RH | 190621-3 | 26.01.23 |
| Horn Antenna | OML, Inc. | M12RH | 190621-3 | 26.01.23 |
| Horn Antenna | OML, Inc. | M08RH | 190621-3 | 26.01.21 |
| Horn Antenna | OML, Inc. | M05RH | 190621-3 | 26.01.21 |
| Horn Antenna | OML, Inc. | M03RH | 190621-3 | 26.01.21 |
| mmWave Single-Axis measuring jig | C&K Technologies, Inc. | N/A | MWJ01 | - |
| Single-Axis Control Driver & Power Supply | C&K Technologies, Inc. | DACD&P-4801 | 0001 | - |

| | | |
|---|--|---|
| Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr | Report No.: KR25-SRF0089-A Page (31) of (31) |  |
|---|--|---|

| Equipment Name | Manufacturer | Model No. | Serial No. | Next Cal. Date |
|-------------------------|-------------------|----------------|-----------------|----------------|
| Controller | INNCO SYSTEMS | CO3000 | 1442/54370322/P | - |
| Antenna Mast | INNCO SYSTEMS | MA4640-XP-ET | AM002 | - |
| Turn Device | INNCO SYSTEMS | DS1200-S-1t | 0001 | - |
| Spectrum Analyzer | R&S | FSV40 | 100988 | 25.05.27 |
| Low Noise Amplifier | TESTEK | TK-PA18H | 220123-L | 25.10.11 |
| Low Noise Amplifier | TESTEK | TK-PA1840H | 220234-L | 25.10.14 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 2764 | 25.10.24 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 1266 | 25.10.15 |
| High Pass Filter | Qotana | DBHF058004000A | 23041800061 | 25.06.24 |
| Signal Generator | R&S | SMB100A | 176206 | 26.01.17 |
| Spectrum Analyzer | R&S | FSV40 | 100988 | 25.05.27 |
| Amplifier | SONOMA INSTRUMENT | 310N | 421910 | 25.10.11 |
| Bilog Antenna | Teseq GmbH | CBL 6112D | 61521 | 26.12.11 |
| DC Power Supply | POWERCOM | DCP-50100A | 20220610-01 | 26.01.16 |
| Vector Signal Generator | R&S | SMBV100A | 257566 | 25.07.01 |

End of test report