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CONFIDENTIAL
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## Type1PJ <br> Antenna Under Test Report for DVLD1152ZA

1. Test method for antenna gain measurement
2. Test Equipment (Details of SG32)
3. Measurement result

## 1. Test method for antenna gain measurement

- Test method for antenna gain measurement:

Standard antenna method (comparative method)

* Comparing a measured antenna to a standard antenna with a known gain factor
- Equipment used for antenna gain measurement (model name, serial number, calibration date, etc.);
- Measurement system

Microwave Vision Group (former SATIMO) SG32 (details next page)

- Equipment

PAC (MW 000021H-0068)
E4428C (MY45280451, MY45280466)

- Calibration date

November 11, 2022

- Antenna gain measurement date / Measurement person

April 26, 2023 / Harumi matsuoka

## 2. Test Equipment (Details of SG32)





Peak gain variation is secured within $\pm 0.75 \mathrm{~dB}$ by system calibration.

Part number: DVLD1152ZA

## Supplier: Panasonic

| <Efficiency> |  |  |  |  |  | [dBi] |  | [dB] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LINEARPOLARIZATION |  | XY-plane |  | YZ-plane |  | ZX-plane |  | Total Efficiency |
|  |  | hor. | ver. | hor. | ver. | hor. | ver. |  |
| 2400 MHz | MAX. | -4.2 | 1.4 | 1.0 | -19.1 | 1.4 | -3.0 | -1.0 |
|  | AVE. | -7.5 | -0.9 | -2.1 | -22.2 | -4.0 | -4.1 |  |
| 2442 MHz | MAX. | -1.5 | 1.6 | 0.9 | -16.7 | 1.6 | -1.5 | -1.1 |
|  | AVE. | -6.9 | -1.1 | -2.3 | -21.1 | -3.9 | -3.7 |  |
| 2484 MHz | MAX. | -3.2 | -0.7 | 0.4 | -15.9 | -0.6 | -2.8 | -1.3 |
|  | AVE. | -7.0 | -1.5 | -3.1 | -21.1 | -4.4 | -3.9 |  |

*Red color shows peak gain
<Directivity>


