

# **PART 0 SAR Characterization Report**

## **Test Report No. 14809943H-A**

|                            |                                                                      |
|----------------------------|----------------------------------------------------------------------|
| <b>Customer</b>            | Panasonic Corporation of North America                               |
| <b>Description of EUT</b>  | Radio Module<br>(Tested inside of Panasonic Personal Computer FZ-40) |
| <b>Model Number of EUT</b> | WW21A                                                                |
| <b>FCC ID</b>              | ACJ9TGWW21A                                                          |
| <b>Issue Date</b>          | June 16, 2023                                                        |
| <b>Remarks</b>             | For Permissive Change                                                |

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Representative test engineer</b>                                                 | <b>Approved by</b>                                                                   |
|  |  |
| Takeshi Hiyaji<br>Engineer                                                          | Takayuki Shimada<br>Leader                                                           |

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It does not cover administrative issues such as Manual or non-SAR test related Requirements.  
(if applicable)
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## 1 Introduction

This device uses Qualcomm® Smart Transmit feature and cannot operate without specific absorption ratio (SAR) and power density (PD) characterization at the device level, beforehand. The parameters obtained from SAR and PD characterization (char) is used as input for Smart Transmit. Both SAR char and PD char will be entered via the Embedded File System (EFS) to enable the Smart Transmit feature.

Part 0 report describes the results for the SAR char and PD char generation and evaluates them on the 5G milli wave (mmW) new radio (NR) enabled equipment under test (EUT).

This description is an overview for STx and test results may not include both sub6 (SAR) and mmW (PD).

This report is for evaluation of n77 and Downlink CA Combination only, as it was added to the EUT. For the other test, please see original application (FCC ID: ACJ9TGWW21A).

## 2 Customer information

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Company Name     | Panasonic Corporation of North America                              |
| Address          | Two Riverfront Plaza, 9th Floor Newark, NEW JERSEY, 07102-5940, USA |
| Telephone Number | +1-201-348-7760                                                     |
| Contact Person   | Ben Botros                                                          |

**\*Remarks:**

Panasonic Connect Co., Ltd. is on behalf of the applicant: Panasonic Corporation of North America (Company incorporated abroad).

The information provided from the customer is as follows.

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating / Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 2: Customer information
- SECTION 3: Equipment under test (EUT) other than the receipt date
- SECTION 8: SAR device uncertainty, SAR design target, SAR char generation ( $P_{\text{limit}}$  and  $P_{\text{max}}$  (Tune up limit))

\* The laboratory is exempted from liability of any test results affected from the above information in section 3.

## 3 Equipment under test (EUT)

### 3.1 Identification of EUT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Description     | Radio Module                                                                               |
| Model Number    | WW21A                                                                                      |
| Serial Number   | 1LTSA00106                                                                                 |
| Condition       | Engineering prototype<br>(Not for Sale: This sample is equivalent to mass-produced items.) |
| Modification    | No Modification by the test lab                                                            |
| Receipt Date    | May 22, 2023                                                                               |
| Calculated Date | May 23, 2023                                                                               |

**<Information of Host device>**

|      |                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------|
| Type | Personal Computer FZ-40<br>Intel Core i7-1185G7 (1.2 GHz, Max 4.8 GHz)<br>14 inch LCD (1920 x 1080) |
|------|-----------------------------------------------------------------------------------------------------|

### 3.2 Product description

#### General Specification

|        |                 |
|--------|-----------------|
| Rating | DC 3.0 to 3.6 V |
|--------|-----------------|

#### Radio Specification

| Wireless technology                    | Dup.                                                                                             | Band   | Mode                                                         |
|----------------------------------------|--------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------|
| WCDMA                                  | FDD                                                                                              |        | 2 UMTS Rel. 99 (Data) HSDPA (Rel. 5)                         |
|                                        | FDD                                                                                              |        | 4 HSUPA (Rel. 6), HSPA+ (Rel. 7), DC-HSDPA (Rel. 8)          |
|                                        | FDD                                                                                              |        | 5                                                            |
| LTE                                    | FDD                                                                                              |        | 2 QPSK, 16QAM, 64QAM, 256QAM                                 |
|                                        | FDD                                                                                              |        | 4                                                            |
|                                        | FDD                                                                                              |        | 5 Downlink MIMO Support: Yes(2x2, 4x4)                       |
|                                        | FDD                                                                                              |        | 7 Supported band : B2, B4, B7, B25, B38, B41, B42, B48, B66  |
|                                        | FDD                                                                                              |        | 12                                                           |
|                                        | FDD                                                                                              |        | 13 Uplink MIMO Support: No                                   |
|                                        | FDD                                                                                              |        | 14 Uplink transmission is limited to a single output stream. |
|                                        | FDD                                                                                              |        | 17                                                           |
|                                        | FDD                                                                                              |        | 25                                                           |
|                                        | FDD                                                                                              |        | 26                                                           |
|                                        | FDD(Rx only)                                                                                     |        | 29                                                           |
|                                        | TDD                                                                                              |        | 38                                                           |
|                                        | TDD                                                                                              |        | 41                                                           |
|                                        | TDD                                                                                              |        | 42                                                           |
|                                        | TDD(Rx only)                                                                                     |        | 46                                                           |
|                                        | TDD                                                                                              |        | 48                                                           |
|                                        | FDD                                                                                              |        | 66                                                           |
|                                        | FDD                                                                                              |        | 71                                                           |
| LTE CA                                 | Downlink                                                                                         |        | Uplink                                                       |
|                                        | Maximum 7 carriers<br>See Section 13.2.1 of part 1 report for supported Downlink CA combinations |        | *B42: not used in US (FCC) / B48: not used in Canada(ISED)   |
| 5G NR (FR1)                            | FDD                                                                                              | 15 kHz | n2 P/2 BPSK (DFT-s-OFDM),                                    |
|                                        | FDD                                                                                              | 15 kHz | n5 QPSK (CP-OFDM/DFT-s-OFDM),                                |
|                                        | TDD                                                                                              | 15 kHz | n41 16QAM (CP-OFDM/DFT-s-OFDM),                              |
|                                        | FDD                                                                                              | 15 kHz | n66 64QAM (CP-OFDM/DFT-s-OFDM),                              |
|                                        | FDD                                                                                              | 15 kHz | n71 256QAM (CP-OFDM/DFT-s-OFDM)                              |
|                                        | TDD                                                                                              | 30 kHz | n77 Downlink MIMO Support: Yes(2x2, 4x4)                     |
|                                        | TDD                                                                                              | 30 kHz | n78 Supported band : n2, n41, n66, n77, n78                  |
|                                        | -                                                                                                | -      | Uplink MIMO Support: No                                      |
| EN-DC(LTE-FR1 Sub6)<br>(NSA mode only) | Supported combination                                                                            |        | *n78: not used in US (FCC)                                   |
|                                        | LTE Anchor Bands for NR band n2                                                                  |        | LTE Band 5/12/13                                             |
|                                        | LTE Anchor Bands for NR band n5                                                                  |        | LTE Band 2/7/66                                              |
|                                        | LTE Anchor Bands for NR band n41                                                                 |        | LTE Band 2/25/26/66                                          |
|                                        | LTE Anchor Bands for NR band n66                                                                 |        | LTE Band 5/12/13/14/71                                       |
|                                        | LTE Anchor Bands for NR band n71                                                                 |        | LTE Band 2/7/66                                              |
|                                        | LTE Anchor Bands for NR band n77                                                                 |        | LTE Band 41                                                  |
|                                        | LTE Anchor Bands for NR band n78*                                                                |        | LTE Band 2/5/7/12/38/66                                      |

Wireless module (Tested inside of Panasonic Tablet PC FZ-40)

Model : WL20B (FCC ID ACJ9TGWL20B / ISED certification number 216H-CFWL20B)

| Wireless technologies | Dup. | Band                                                     | Mode                                                                          |
|-----------------------|------|----------------------------------------------------------|-------------------------------------------------------------------------------|
| WLAN                  | TDD  | 2.4GHz<br>2412-2472<br>for US<br>2412-2462<br>for Canada | 802.11b<br>802.11g<br>802.11n(20,40)<br>802.11ax(20,40)                       |
|                       | TDD  | 5GHz<br>5180-5240<br>5260-5320<br>5500-5720<br>5745-5825 | 802.11a<br>802.11n(20,40)<br>802.11ac(20,40.80.160)<br>802.11ax(20,40.80.160) |
| Bluetooth             | TDD  | 2.4GHz<br>2402-2480                                      | BR/EDR/LE                                                                     |

Host device: Personal Computer, Model: FZ-40

| Wireless technologies                 | Dup.                              | Band            | Mode                                              |
|---------------------------------------|-----------------------------------|-----------------|---------------------------------------------------|
| 5G NR (FR2)                           | TDD                               | 120 kHz<br>n258 | Pi/2 BPSK (DFT-s-OFDM), QPSK (CP-OFDM/DFT-s-OFDM) |
|                                       | TDD                               | 120 kHz<br>n260 | 16QAM (CP-OFDM/DFT-s-OFDM),                       |
|                                       | TDD                               | 120 kHz<br>n261 | 64QAM (CP-OFDM/DFT-s-OFDM)                        |
|                                       | -                                 | -               | -                                                 |
|                                       | -                                 | -               | MIMO Support: No                                  |
| EN-DC(LTE-FR2 mmW)<br>(NSA mode only) | Supported combination             |                 | *B48: not used in Canada(ISED)                    |
|                                       | LTE Anchor Bands for NR band n258 |                 | LTE Band 2/5/7/12/66                              |
|                                       | LTE Anchor Bands for NR band n260 |                 | LTE Band 2/5/12/13/14/48*/66                      |
|                                       | LTE Anchor Bands for NR band n261 |                 | LTE Band 2/5/13/48*/66                            |

## 4 Location

UL Japan, Inc. Ise EMC Lab.

Shielded room for SAR testings

FCC Test Firm Registration Number: 884919

ISED SAR Lab Company Number: 2973C / CAB identifier: JP0002

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81-596-24-8999

## 5 References

Federal Communications Commission. (October 23, 2015). *447498 D04 Interim General RF Exposure Guidance v01*.

International Electrotechnical Commission. (2018). *IEC TR 63170:2018*.

SPEAG. (August 2018). *5G Module V1.2 Application Note: 5G Compliance Testing*.

## 6 Time averaging for SAR and PD

The Qualcomm® Smart Transmit algorithm controls and manages the instantaneous Tx power to maintain the time-averaged Tx power (in turn, time-averaged RF exposure) is in compliance with regulatory limits.

## 7 Definitions, symbols, and abbreviations

### 7.1 Definitions

|                                |                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAR_design_target              | : Target value to use STx and also this shall be less than regulatory SAR limit (i.e., 1gSAR limit for FCC) after accounting for all device design related uncertainties. |
| SAR_design_target_extremity    | : SAR_design_target for limbs                                                                                                                                             |
| Tx_power_at_SAR_design_target  | : Transmit level that matches SAR_design_target                                                                                                                           |
| $\Delta_{min}$                 | : housing material influence                                                                                                                                              |
| PD_design_target               | : The design target for PD compliance. It should be less than regulatory power density limit to account for all device design related uncertainties                       |
| <i>input.power.limit</i>       | : For a PD characterized wireless device, the input power level at antenna port(s) for each beam corresponding to PD_design_target.                                       |
| PD char                        | : The table that contains input.power.limit fed to antenna port(s) for all supported beams.                                                                               |
| N beams                        | : The mmW device supports total N beams, where M out of N are single beams and the rest of (N-M) are beam pairs (where 2 single beams are excited at the same time).      |
| power density (PD) or $S_{av}$ | : Energy per unit time and unit area crossing a surface of area A characterized by the normal unit vector $\hat{n}$ and averaging time.                                   |

$$S_{av} = \frac{1}{AT} \iint (\mathbf{E} \times \mathbf{H}) \cdot \hat{n} dA dT$$

|                                 |                                                                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific Absorption Rate (SAR): | : The time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density ( $\rho$ ), as shown in the following equation: |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dV} \right)$$

## 7.2 Symbols

| Symbol                | Quantity                      | Unit                  | Dimensions                                 |
|-----------------------|-------------------------------|-----------------------|--------------------------------------------|
| E                     | Electric field                | volt per meter        | V / m                                      |
| f                     | Frequency                     | hertz                 | Hz                                         |
| H                     | Magnetic field                | ampere per meter      | A / m                                      |
| $\lambda$             | Wavelength                    | meter                 | m                                          |
| S                     | Local power density           | watt per square meter | W / m <sup>2</sup>                         |
| PD or S <sub>av</sub> | Spatial-average power density | watt per square meter | W / m <sup>2</sup> (mW / cm <sup>2</sup> ) |
| SAR                   | Specific Absorption Rate      | watt per kilo gram    | W / kg                                     |

## 7.3 Abbreviations

|                                        |                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| DSI                                    | : device state index                                                                       |
| KDB                                    | : knowledge data base from Federal communication committee (FCC)                           |
| BS or BSE                              | : base station or base station emulator                                                    |
| CW                                     | : continuous wave                                                                          |
| DUT                                    | : device under test                                                                        |
| NR                                     | : new radio                                                                                |
| PD                                     | : power density                                                                            |
| RF                                     | : radio frequency                                                                          |
| TER                                    | : total exposure ratio                                                                     |
| S <sub>n</sub>                         | : surface number                                                                           |
| S <sub>tot</sub> or S <sub>total</sub> | : total propagating power flux density into the phantom                                    |
| S <sub>n</sub> or S <sub>norm</sub>    | : surface normal propagating power flux density into the phantom or in normed vector space |
| Ant                                    | : antenna                                                                                  |
| nG                                     | : n generation (e.g. 3G,4G and 5G)                                                         |
| ☒                                      | : applicable.                                                                              |
| ☐                                      | : NOT applicable.                                                                          |

## 8 SAR char generation

### 8.1 Usage scenarios in SAR evaluation and DSI determination

| applicable                          | Scenario            | Description                                                                                                          | Position example                                                                                            |
|-------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | Head                | Device positioned next to head                                                                                       | $SAR_{head} = \max\{SAR_{LC}, SAR_{LT}, SAR_{RC}, SAR_{RT}\}$                                               |
| <input checked="" type="checkbox"/> | Body                | Device positioned next to body with or without a body-worn accessory                                                 | $SAR_{body} = \max\{SAR_{s1}, SAR_{s2}, SAR_{s3}, SAR_{s4}, SAR_{s5}, SAR_{s6}\}$                           |
| <input type="checkbox"/>            | Hotspot mode        | Device transmitting in hotspot mode and assumed to be located next to human body                                     | $SAR_{hotspot} = \max\{SAR_{s1}, SAR_{s2}, SAR_{s3}, SAR_{s4}, SAR_{s5}, SAR_{s6}\}$                        |
| <input checked="" type="checkbox"/> | Extremity SAR (10g) | 10gSAR is evaluated for all applicable surfaces of the device against the flat phantom with 0 mm separation distance | $10gSAR_{extremity} = \max\{10gSAR_{s1}, 10gSAR_{s2}, 10gSAR_{s3}, 10gSAR_{s4}, 10gSAR_{s5}, 10gSAR_{s6}\}$ |

L/R: Left/Right, C/T: Cheek/Tilt, S: Surface

Table 8-A summary of Usage/Exposure Scenario for this EUT

| DSI | State                           |
|-----|---------------------------------|
| 0   | Proximity sensor off or disable |

### 8.2 SAR device uncertainty

Table 8-B device uncertainty

| Item              | Uncertainty dB |
|-------------------|----------------|
| Total uncertainty | 1.0            |

k=2

### 8.3 SAR design target

To account for the total uncertainty,  $SAR_{design\_target}$  needs to:

$$SAR_{design\_target} < SAR_{regulatory\_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

the  $SAR_{design\_target}$  for the EUT is determined as: < 1.27 W / kg

FCC

| DSI | $SAR_{design\_target}$ [W / kg] |
|-----|---------------------------------|
| 0   | 1.0 All band                    |

## 8.4 SAR char generation

Calc. Plimit = measured power + 10log (target SAR / measured SAR value)  
ex Plimit for NR Band n77 = 23.21 + 10 log(1.00/0.476) = 26.4 dBm

Table 8-C Summary of Plimit

| RAT   | Band | Pmax[dBm] | Plimit |
|-------|------|-----------|--------|
| WCDMA | 2    | 24.5      | 24.5   |
| WCDMA | 4    | 24.5      | 24.5   |
| WCDMA | 5    | 24.5      | 24.5   |
| LTE   | 2    | 24.0      | 24.0   |
| LTE   | 4    | 24.0      | 24.0   |
| LTE   | 5    | 24.0      | 24.0   |
| LTE   | 7    | 24.0      | 24.0   |
| LTE   | 12   | 24.0      | 24.0   |
| LTE   | 13   | 24.0      | 24.0   |
| LTE   | 14   | 24.0      | 24.0   |
| LTE   | 17   | 24.0      | 24.0   |
| LTE   | 25   | 24.0      | 24.0   |
| LTE   | 26   | 24.0      | 24.0   |
| LTE   | 38   | 24.0      | 24.0   |
| LTE   | 41   | 24.0      | 24.0   |
| LTE   | 48   | 12.3      | 12.3   |
| LTE   | 66   | 24.0      | 24.0   |
| LTE   | 71   | 24.0      | 24.0   |
| NR    | n2   | 24.5      | 24.5   |
| NR    | n5   | 24.5      | 24.5   |
| NR    | n41  | 24.5      | 24.5   |
| NR    | n66  | 24.5      | 24.5   |
| NR    | n71  | 24.5      | 24.5   |
| NR    | n77  | 24.5      | 24.5   |

Limbs Plimit is also below than target SAR so same value is applied.

### For LTE B48

| Uplink Downlink config (UDC) | Special sub frame (SSF) | Burst ave tune up DSI=1 [dBm] | Pmax burst ave [dBm] | Time ave DSI=1/0 [dBm] |
|------------------------------|-------------------------|-------------------------------|----------------------|------------------------|
| 0                            | 0 to 7                  | 12.3                          | 11.09                | 9.4                    |
| 1                            | 0 to 7                  | 13.8                          | 12.66                | 9.4                    |
| 2                            | 0 to 7                  | 16.6                          | 15.57                | 9.4                    |
| 3                            | 0 to 7                  | 15.3                          | 14.10                | 9.4                    |
| 4                            | 0 to 7                  | 16.8                          | 15.69                | 9.4                    |
| 5                            | 0 to 7                  | 19.7                          | 18.56                | 9.4                    |
| 6                            | 0 to 7                  | 12.9                          | 11.64                | 9.4                    |

LTE band 48 doesn't have a same burst tune up for UDC/SSF but has same time average tune up limit.

## Appendix A SAR result

### A.1 n77 (Block A)

| Test Position | Dist. (mm) | Modulation | UL CH # | Freq. (MHz) | UL RB Allocation | UL RB Start | Power (dBm)   |           | 1-g SAR (W/kg) |              | Calc. Plimit |
|---------------|------------|------------|---------|-------------|------------------|-------------|---------------|-----------|----------------|--------------|--------------|
|               |            |            |         |             |                  |             | Tune-up limit | Meas. Avg | Meas.          | Scaled       |              |
| Bystander     | 25         | QPSK       | 633332  | 3499.98     | 1                | 1           | 24.5          | 23.38     | 0.440          | 0.569        | 26.9         |
|               |            |            | 633332  | 3499.98     | 135              | 69          | 24.0          | 23.21     | <b>0.476</b>   | <b>0.571</b> | <b>26.4</b>  |
|               |            |            | 633332  | 3499.98     | 270              | 0           | 24.0          | 22.72     | 0.367          | 0.493        | 27.1         |

### A.2 n77 (Block C)

| Test Position | Dist. (mm) | Modulation | UL CH # | Freq. (MHz) | UL RB Allocation | UL RB Start | Power (dBm)   |           | 1-g SAR (W/kg) |              | Calc. Plimit |
|---------------|------------|------------|---------|-------------|------------------|-------------|---------------|-----------|----------------|--------------|--------------|
|               |            |            |         |             |                  |             | Tune-up limit | Meas. Avg | Meas.          | Scaled       |              |
| Bystander     | 25         | QPSK       | 656000  | 3840        | 1                | 1           | 24.5          | 23.18     | <b>0.238</b>   | <b>0.323</b> | <b>29.4</b>  |
|               |            |            | 656000  | 3840        | 135              | 69          | 24.0          | 22.95     | 0.192          | 0.245        | 30.1         |
|               |            |            | 656000  | 3840        | 270              | 0           | 24.0          | 22.50     | 0.151          | 0.213        | 30.7         |

## Appendix B Measurement uncertainty

### B.1 SAR measurement uncertainty

| Error Description                     | Uncert. value | Prob. Dist. | Div. | (ci) 1g | (ci) 10g | Std. Unc. (1g) | Std.Unc. (10g) |
|---------------------------------------|---------------|-------------|------|---------|----------|----------------|----------------|
| <b>Measurement System Errors</b>      |               |             |      |         |          |                |                |
| Probe Calibration                     | ± 14.00 %     | N           | 2    | 1       | 1        | ±7.0%          | ±7.00%         |
| Probe Calibration Drift               | ± 1.7 %       | R           | √3   | 1       | 1        | ±1.0%          | ±1.0%          |
| Probe Linearity                       | ± 4.7 %       | R           | √3   | 1       | 1        | ±2.7%          | ±2.7%          |
| Broadband Signal                      | ± 2.6 %       | R           | √3   | 1       | 1        | ±1.5%          | ±1.5%          |
| Probe Isotropy                        | ± 7.6 %       | R           | √3   | 1       | 1        | ±4.4%          | ±4.4%          |
| Data Acquisition                      | ± 0.3 %       | N           | 1    | 1       | 1        | ±0.3%          | ±0.3%          |
| RF Ambient                            | ± 1.8 %       | N           | 1    | 1       | 1        | ±1.8%          | ±1.8%          |
| Probe Positioning                     | ± 0.2 %       | N           | 1    | 0.33    | 0.33     | ±0.1%          | ±0.1%          |
| Data Processing                       | ± 2.3 %       | N           | 1    | 1       | 1        | ±2.3%          | ±2.3%          |
| <b>Phantom and Device Errors</b>      |               |             |      |         |          |                |                |
| Conductivity (meas.)DAK               | ± 10.0 %      | N           | 1    | 0.78    | 0.71     | ±7.8%          | ±7.1%          |
| Conductivity (temp.)BB                | ± 3.4 %       | R           | √3   | 0.78    | 0.71     | ±1.5%          | ±1.4%          |
| Phantom Permittivity                  | ± 14.0 %      | R           | √3   | 0.25    | 0.25     | ±2.0%          | ±2.0%          |
| Distance DUT - TSL                    | ± 2.0 %       | N           | 1    | 2       | 2        | ±4.0%          | ±4.0%          |
| Device Positioning (+/- 0.5mm)        | ± 1.0 %       | N           | 1    | 1       | 1        | ±1.0%          | ±1.0%          |
| Device Holder                         | ± 3.6 %       | N           | 1    | 1       | 1        | ±3.6%          | ±3.6%          |
| DUT Modulationm                       | ± 2.4 %       | R           | √3   | 1       | 1        | ±1.4%          | ±1.4%          |
| Time-average SAR                      | ± 2.6 %       | R           | √3   | 1       | 1        | ±1.5%          | ±1.5%          |
| DUT drift                             | ± 2.5 %       | N           | 1    | 1       | 1        | ±2.5%          | ±2.5%          |
| Val Antenna Unc.val                   | ± 0.0 %       | N           | 1    | 1       | 1        | ±0.0%          | ±0.0%          |
| Unc. Input Powerval                   | ± 0.0 %       | N           | 1    | 1       | 1        | ±0.0%          | ±0.0%          |
| <b>Correction to the SAR results</b>  |               |             |      |         |          |                |                |
| Deviation to Target                   | ± 1.9 %       | N           | 1    | 1       | 0.84     | ±1.9%          | ±1.6%          |
| SAR scalingp                          | ± 0.0 %       | R           | √3   | 1       | 1        | ±0.0%          | ±0.0%          |
| Combined Std. Uncertainty             |               |             |      |         |          | ±14.1%         | ±13.7%         |
| <b>Expanded STD Uncertainty (κ=2)</b> |               |             |      |         |          | ±28.2%         | ±27.4%         |

## Appendix C      Revision History

### Original Test Report No. 14809943H-A

| Revision        | Test report No. | Date          | Page Revised Contents |
|-----------------|-----------------|---------------|-----------------------|
| -<br>(Original) | 14809943H-A     | June 16, 2023 | -                     |

End of Report