

APPENDIX C: PROBE AND DIPOLE CALIBRATION CERTIFICATES

Calibration Laboratory of

Schmid & Partner

Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client Element

Morgan Hill, USA

Certificate No. CLA13-1004_Nov23

CALIBRATION CERTIFICATE

Object

CLA13 - SN: 1004

Calibration procedure(s)

QA CAL-15,v10

Calibration Procedure for SAR Validation Sources below 700 MHz

Calibration date:

November 09, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Certificate No: CLA13-1004_Nov23

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------------|--------------------|-----------------------------------|------------------------|
| Power meter NRP2 | SN: 104778 | 30-Mar-23 (No. 217-03804/03805) | Mar-24 |
| Power sensor NRP-Z91 | SN: 103244 | 30-Mar-23 (No. 217-03804) | Mar-24 |
| Power sensor NRP-Z91 | SN: 103245 | 30-Mar-23 (No. 217-03805) | Mar-24 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 30-Mar-23 (No. 217-03809) | Mar-24 |
| Type-N mismatch combination | SN: 310982 / 06327 | 30-Mar-23 (No. 217-03810) | Mar-24 |
| Reference Probe EX3DV4 | SN: 3877 | 06-Jan-23 (No. EX3-3877_Jan23) | Jan-24 |
| DAE4 | SN: 654 | 27-Jan-23 (No. DAE4-654_Jan23) | Jan-24 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Power meter NRP2 | SN: 107193 | 08-Nov-21 (in house check Dec-22) | In house check: Dec-24 |
| Power sensor NRP-Z91 | SN: 100922 | 15-Dec-09 (in house check Dec-22) | In house check: Dec-24 |
| Power sensor NRP-Z91 | SN: 100418 | 01-Jan-04 (in house check Dec-22) | In house check: Dec-24 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-22) | In house check: Jun-24 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |
| | Name . | Function | Signature |
| Calibrated by: | Jeton Kastrati | Laboratory Technician < | |
| Approved by: | Sven Kühn | Technical Manager | <u>C</u> -2 |

Issued: November 14, 2023

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Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL

tissue simulating liquid

ConvF N/A sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

Certificate No: CLA13-1004_Nov23

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY5 | V52.10.4 |
|----------------------|--------------------------------|----------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | ELI4 Flat Phantom | Shell thickness: 2 ± 0.2 mm |
| EUT Positioning | Touch Position | |
| Zoom Scan Resolution | dx, dy = 4.0 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 13 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| The following parameters and calculations are | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 55.0 | 0.75 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 53.4 ± 6 % | 0.71 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|------------------|---------------------------|
| SAR measured | 1 W input power | 0.557 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 0.578 W/kg ± 18.4 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|------------------|---------------------------|
| SAR measured | 1 W input power | 0.343 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 0.356 W/kg ± 18.0 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 55.4 Ω - 1.8 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 25.3 dB |

Additional EUT Data

| Manufacturad bu | SPEAG |
|-----------------|---------|
| Manufactured by | 01 2.70 |

Certificate No: CLA13-1004_Nov23

DASY5 Validation Report for Head TSL

Date: 09.11.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1004

Communication System: UID 0 - CW; Frequency: 13 MHz

Medium parameters used: f = 13 MHz; $\sigma = 0.71$ S/m; $\epsilon_r = 53.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN3877; ConvF(15.33, 15.33, 15.33) @ 13 MHz; Calibrated: 06.01.2023

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn654; Calibrated: 27.01.2023

Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

CLA Calibration for HSL-LF Tissue/CLA-13, touch configuration, Pin=1W/Zoom Scan,

dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 30.69 V/m; Power Drift = -0.09 dB

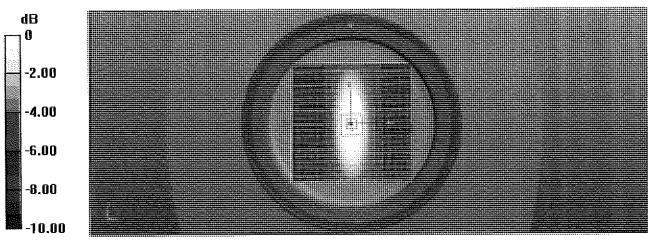
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.343 W/kg

Smallest distance from peaks to all points 3 dB below = 22.9 mm

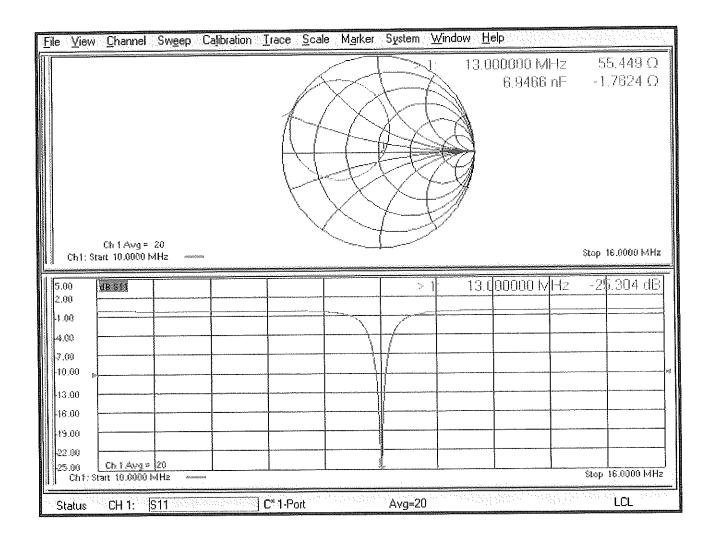
Ratio of SAR at M2 to SAR at M1 = 77.8%

Maximum value of SAR (measured) = 0.832 W/kg



0 dB = 0.832 W/kg = -0.80 dBW/kg

Impedance Measurement Plot for Head TSL



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Client

Element

Certificate No: D2450V2-750 May22

CALIBRATION CERTIFICATE

Object

D2450V2 - SN:750

Calibration procedure(s)

QA CAL-05,v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

 \checkmark

YW 5/22/2023

Calibration date:

May 11, 2022

✓ YW 5/31/2024

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------------|--------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 04-Apr-22 (No. 217-03525/03524) | Apr-23 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-22 (No. 217-03524) | Apr-23 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-22 (No. 217-03525) | Apr-23 |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 04-Apr-22 (No. 217-03527) | Apr-23 |
| Type-N mismatch combination | SN: 310982 / 06327 | 04-Apr-22 (No. 217-03528) | Apr-23 |
| Reference Probe EX3DV4 | SN: 7349 | 31-Dec-21 (No. EX3-7349_Dec21) | Dec-22 |
| DAE4 | SN: 601 | 02-May-22 (No. DAE4-601_May22) | May-23 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB39512475 | 30-Oct-14 (in house check Oct-20) | In house check: Oct-22 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-20) | In house check: Oct-22 |
| Power sensor HP 8481A | SN: MY41093315 | 07-Oct-15 (in house check Oct-20) | In house check: Oct-22 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-20) | In house check: Oct-22 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-20) | In house check: Oct-22 |
| | Name | Function | Signature |
| Calibrated by: | Aidonia Georgiadou | Laboratory Technician | ST. |
| | | | MZ |
| Approved by: | Sven Kühn | Technical Manager | |
| | | | ことを こうしゃ |

Issued: May 12, 2022

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Certificate No: D2450V2-750 May22

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Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A

not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY52 | V52.10.4 |
|------------------------------|------------------------|-------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | WW-7-WWW. |
| Frequency | 2450 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 39.2 | 1.80 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 38.2 ± 6 % | 1.85 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 13.4 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 52.6 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 6.20 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.5 W/kg ± 16.5 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity | | |
|---|-----------------|--------------|------------------|--|--|
| Nominal Body TSL parameters | 22.0 °C | 52.7 | 1.95 mho/m | | |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 51.5 ± 6 % | 2.02 mho/m ± 6 % | | |
| Body TSL temperature change during test | < 0.5 °C | | | | |

SAR result with Body TSL

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 12.9 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 50.5 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 6.04 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 23.9 W/kg ± 16.5 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 54.8 Ω + 8.1 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 21.0 dB |

Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 50.8 Ω + 8.7 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 21.3 dB |

General Antenna Parameters and Design

| | - WALL WALL WALL WALL WALL WALL WALL WAL |
|----------------------------------|--|
| Electrical Delay (one direction) | 1.153 ns |
| | 1.100118 |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| Manufactured by | SPEAG |
|-----------------|-------|
| | SFLAG |

DASY5 Validation Report for Head TSL

Date: 11.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:750

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.85$ S/m; $\varepsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 31.12.2021

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn601; Calibrated: 02.05.2022

Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

• DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 116.5 V/m; Power Drift = 0.04 dB

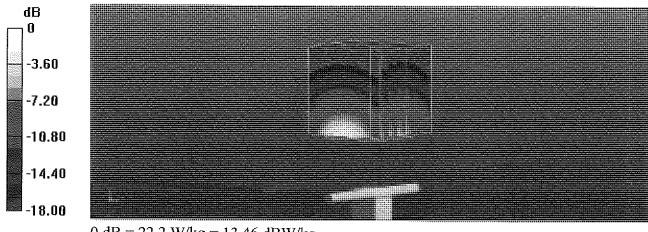
Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 13.4 W/kg; SAR(10 g) = 6.2 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

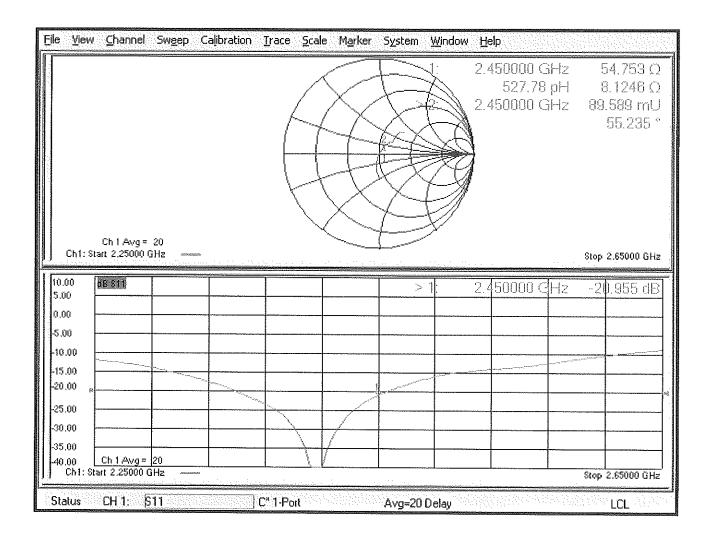
Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 22.2 W/kg



0 dB = 22.2 W/kg = 13.46 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 11.05.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:750

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.02 \text{ S/m}$; $\varepsilon_r = 51.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(8.12, 8.12, 8.12) @ 2450 MHz; Calibrated: 31.12.2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 02.05.2022

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.7 V/m; Power Drift = -0.07 dB

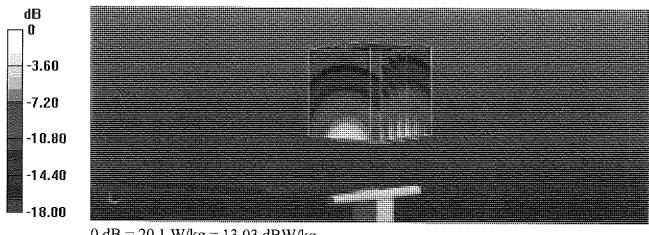
Peak SAR (extrapolated) = 24.3 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.04 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

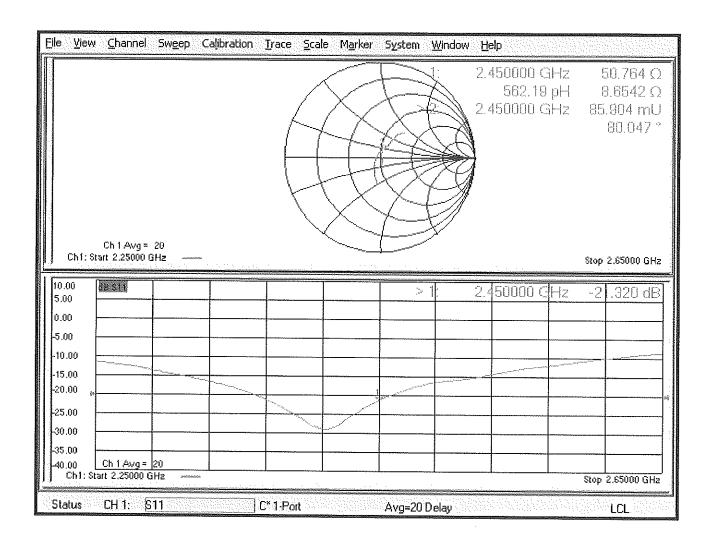
Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 20.1 W/kg



0 dB = 20.1 W/kg = 13.03 dBW/kg

Impedance Measurement Plot for Body TSL





Element Materials Technology Morgan Hill



Morgan Hill

18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.410.290.6652 / Fax +1.410.290.6654
http://www.element.com

Certification of Calibration

Object D2450V2 – SN: 750

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: May 11, 2023

Description: SAR Validation Dipole at 2450 MHz.

Calibration Equipment used:

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--------------------|---------------|-------------------------------------|------------|--------------|------------|---------------|
| Agilent | 8753ES | S-Parameter Vector Network Analyzer | 6/14/2022 | Annual | 6/14/2023 | US39170118 |
| Agilent | E4438C | ESG Vector Signal Generator | 11/17/2022 | Annual | 11/17/2023 | MY45093852 |
| Amplifier Research | 15S1G6 | Amplifier | CBT | N/A | CBT | 343972 |
| Rohde & Schwarz | NRX | Power Meter | 1/11/2023 | Annual | 1/11/2024 | 102583 |
| Rohde & Schwarz | NRP-Z81 | Wide Band Power Sensor | 5/19/2022 | Annual | 5/19/2023 | 106562 |
| Rohde & Schwarz | NRP-Z81 | Wide Band Power Sensor | 5/19/2022 | Annual | 5/19/2023 | 106559 |
| Traceable | 4040 90080-06 | Therm./ Clock/ Humidity Monitor | 5/11/2022 | Biennial | 5/11/2024 | 221514974 |
| Control Company | 4353 | Long Stem Thermometer | 9/10/2021 | Biennial | 9/10/2023 | 210774685 |
| Agilent | 85033E | 3.5mm Standard Calibration Kit | 6/21/2022 | Annual | 6/21/2023 | MY53402352 |
| Mini-Circuits | VLF-6000+ | Low Pass Filter DC to 6000 MHz | CBT | N/A | CBT | N/A |
| Narda | 4772-3 | Attenuator (3dB) | CBT | N/A | CBT | 9406 |
| Mini-Circuits | ZHDC-16-63-S+ | 50-6000MHz Bidirectional Coupler | CBT | N/A | CBT | N/A |
| Pasternack | NC-100 | Torque Wrench | 12/5/2022 | Biennial | 12/5/2024 | N/A |
| SPEAG | DAK-3.5 | Dielectric Assessment Kit | 8/15/2022 | Annual | 8/15/2023 | 1041 |
| SPEAG | EX3DV4 | SAR Probe | 2/13/2023 | Annual | 2/13/2024 | 7427 |
| SPEAG | DAE4 | Dasy Data Acquisition Electronics | 2/15/2023 | Annual | 2/15/2024 | 1403 |

Measurement Uncertainty = ±23% (k=2)

| | Name | Function | Signature |
|----------------|-----------------|----------------------------|------------|
| Calibrated By: | Arturo Oliveros | Compliance Engineer I | 10 |
| Approved By: | Greg Snyder | Executive VP of Operations | Lugged Syl |

| Object: | Date Issued: | Page 1 of 4 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 750 | 05/11/2023 | rage 1014 |

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

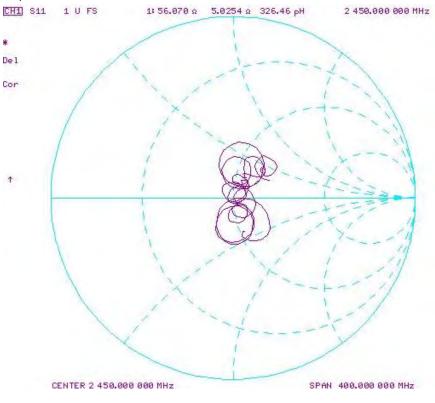
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

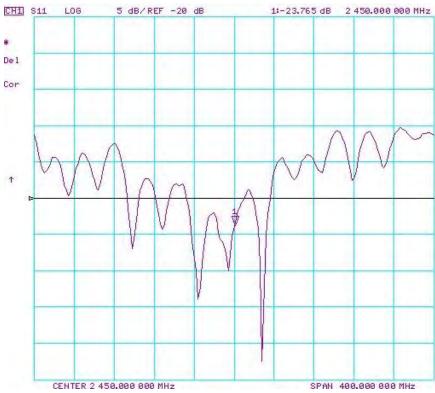
The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

| Calibration Date | Extension Date | Certificate Electrical Delay (ns) | | Measured Head SAR (1g) W/kg @ 20.0 dBm | Deviation 1g (%) | Certificate SAR Target Head (10g) W/kg @ 20.0 dBm | Measured Head | Deviation 10g (%) | Certificate Impedance Head (Ohm) Real | Measured Impedance Head (Ohm) Real | Difference (Ohm) Real | Certificate Impedance Head (Ohm) Imaginary | | Difference (Ohm) Imaginary | Certificate Return Loss Head (dB) | Measured Return Loss Head (dB) | Deviation (%) | PASS/FAIL |
|---------------------|-------------------|---|---|--|---------------------|--|---|----------------------|---|--|--------------------------|--|-----|----------------------------------|---|--------------------------------------|------------------|-----------|
| 5/11/2022 | 5/11/2023 | 1.153 | 5.26 | 4.89 | -7.03% | 2.45 | 2.28 | -6.94% | 54.8 | 56.1 | 1.3 | 8.1 | 5 | 3.1 | -21 | -23.8 | -13.20% | PASS |
| | | | | | | | | | | | | | | | | | | |
| Calibration Date | Extension Date | Certificate Electrical Delay (ns) | Certificate SAR Target Body (1g) W/kg @ 20.0 dBm | Measured Body SAR (1g) W/kg @ 20.0 dBm | Deviation 1g (%) | Certificate SAR Target Body (10g) W/kg @ 20.0 dBm | Measured Body SAR (10g) W/kg @ 20.0 dBm | Deviation 10g (%) | Certificate Impedance Body (Ohm) Real | Measured Impedance Body (Ohm) Real | Difference (Ohm) Real | Certificate Impedance Body (Ohm) Imaginary | | Difference (Ohm) Imaginary | Certificate Return Loss Body (dB) | Measured Return Loss Body (dB) | Deviation (%) | PASS/FAIL |
| 5/11/2022 | 5/11/2023 | 1.153 | 5.05 | 4.76 | -5.74% | 2.39 | 2.26 | -5.44% | 50.8 | 50.1 | 0.7 | 8.7 | 6.6 | 2.1 | -21.3 | -23.9 | -12.00% | PASS |

| Object: | Date Issued: | Page 2 of 4 | |
|-------------------|--------------|-------------|--|
| D2450V2 - SN: 750 | 05/11/2023 | Faye 2 01 4 | |

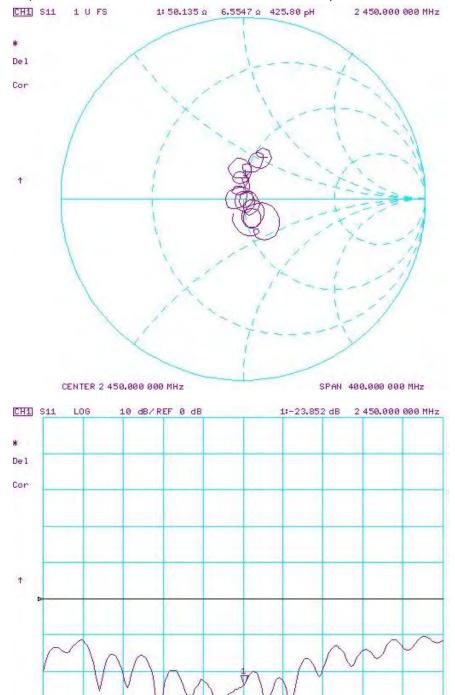
Impedance & Return-Loss Measurement Plot for Head TSL





| Object: | Date Issued: | Page 3 of 4 |
|-------------------|--------------|-------------|
| D2450V2 – SN: 750 | 05/11/2023 | Page 3 of 4 |

Impedance & Return-Loss Measurement Plot for Body TSL



CENTER 2 450.000 000 MHz

| Object: | Date Issued: | Page 4 of 4 |
|-------------------|--------------|-------------|
| D2450V2 – SN: 750 | 05/11/2023 | Page 4 of 4 |

SPAN 400.000 000 MHz

element

ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.408.538.5600
http://www.element.com



Certification of Calibration

Object D2450V2 – SN: 750

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: May 11, 2024

Description: SAR Validation Dipole at 2450 MHz.

Calibration Equipment used:

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--------------------|---------------|-------------------------------------|------------|--------------|------------|---------------|
| Agilent | 8753ES | S-Parameter Vector Network Analyzer | 6/2/2023 | Annual | 6/12/2024 | MY40003841 |
| Agilent | E4438C | ESG Vector Signal Generator | 11/15/2023 | Annual | 11/15/2024 | MY45092078 |
| Amplifier Research | 15S1G6 | Amplifier | CBT | N/A | CBT | 343972 |
| Anritsu | ML2496A | Power Meter | 6/15/2023 | Annual | 6/15/2024 | 1138001 |
| Anritsu | MA24106A | USB Power Sensor | 4/15/2024 | Annual | 4/15/2025 | 2018527 |
| Anritsu | MA24106A | USB Power Sensor | 4/15/2024 | Annual | 4/15/2025 | 1827528 |
| Control Company | 4040 | Therm./ Clock/ Humidity Monitor | 4/15/2024 | Biennial | 4/15/2026 | 240310282 |
| Control Company | 4353 | Ultra Long Stem Thermometer | 10/24/2023 | Annual | 10/24/2024 | 200645916 |
| Agilent | 85033E | 3.5mm Standard Calibration Kit | 7/18/2023 | Annual | 7/18/2024 | MY53402352 |
| Mini-Circuits | VLF-6000+ | Low Pass Filter DC to 6000 MHz | CBT | N/A | CBT | N/A |
| Narda | 4772-3 | Attenuator (3dB) | CBT | N/A | CBT | 9406 |
| Mini-Circuits | ZHDC-16-63-S+ | 50-6000MHz Bidirectional Coupler | CBT | N/A | CBT | N/A |
| Pasternack | NC-100 | Torque Wrench | 12/5/2022 | Biennial | 12/5/2024 | N/A |
| SPEAG | DAK-3.5 | Dielectric Assessment Kit | 9/11/2023 | Annual | 9/11/2024 | 1045 |
| SPEAG | EX3DV4 | SAR Probe | 3/11/2024 | Annual | 3/11/2025 | 7638 |
| SPEAG | DAE4 | Dasy Data Acquisition Electronics | 3/6/2024 | Annual | 3/6/2025 | 1408 |

Measurement Uncertainty = ±23% (k=2)

| | Name | Function | Signature |
|----------------|-----------------|----------------------------|-----------|
| Calibrated By: | Arturo Oliveros | Compliance Engineer | 10 |
| Approved By: | Greg Snyder | Executive VP of Operations | LuggedSpl |

| Object: | Date Issued: | Page 1 of 3 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 750 | 05/11/2024 | rage 1013 |

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

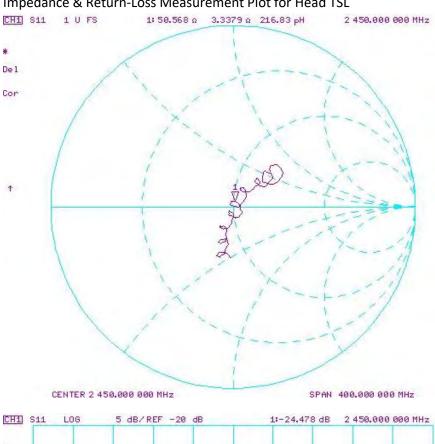
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

| Calibration Date | Extension Date | Certificate Electrical Delay (ns) | Certificate SAR Target Head (1g) W/kg @ 20.0 dBm | Measured Head SAR (1g) W/kg @ 20.0 dBm | Deviation 1g (%) | Certificate SAR Target Head (10g) W/kg @ 20.0 dBm | Measured Head SAR (10g) W/kg @ 20.0 dBm | Deviation 10g (%) | Certificate Impedance Head (Ohm) Real | | | | Impedance | (Ohm) | Certificate Return Loss Head (dB) | | Deviation (%) | |
|---------------------|----------------|---|--|---|------------------|---|--|-------------------|--|------|-----|-----|-----------|-------|---|-------|---------------|--|
| 5/11/2022 | 5/11/2024 | 1.153 | 5.26 | 5.19 | -1.33% | 2.45 | 2.33 | -4.90% | 54.8 | 50.6 | 4.2 | 8.1 | 3.3 | 4.8 | -21 | -24.5 | -16.60% | |

| Object: | Date Issued: | Page 2 of 3 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 750 | 05/11/2024 | rage 2 01 3 |

Impedance & Return-Loss Measurement Plot for Head TSL





| Object: | Date Issued: | Page 3 of 3 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 750 | 05/11/2024 | Page 3 of 3 |

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst Service suisse d'étalonnage

Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

PC Test

Certificate No: D2450V2-921_Nov21

CALIBRATION CERTIFICATE

Object

D2450V2 - SN:921

Calibration procedure(s)

QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date:

November 09, 2021

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). 12/14/2022

The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

YW 12/13/2023

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}$ C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------------|--------------------|-----------------------------------|------------------------|
| Power meter NRP | SN: 104778 | 09-Apr-21 (No. 217-03291/03292) | Apr-22 |
| Power sensor NRP-Z91 | SN: 103244 | 09-Apr-21 (No. 217-03291) | Apr-22 |
| Power sensor NRP-Z91 | SN: 103245 | 09-Apr-21 (No. 217-03292) | Apr-22 |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 09-Apr-21 (No. 217-03343) | Apr-22 |
| Type-N mismatch combination | SN: 310982 / 06327 | 09-Apr-21 (No. 217-03344) | Apr-22 |
| Reference Probe EX3DV4 | SN: 7349 | 28-Dec-20 (No. EX3-7349_Dec20) | Dec-21 |
| DAE4 | SN: 601 | 01-Nov-21 (No. DAE4-601_Nov21) | Nov-22 |
| | | | |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB39512475 | 30-Oct-14 (in house check Oct-20) | In house check: Oct-22 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-20) | In house check; Oct-22 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-20) | In house check: Oct-22 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-20) | In house check: Oct-22 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-20) | In house check: Oct-22 |
| | Name | Function | Signature |
| Calibrated by: | Michael Weber | Laboratory Technician | MULET |
| Approved by: | Niels Kuster | Quality Manager | XXX |

Issued: November 11, 2021

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D2450V2-921_Nov21 Page 2 of 8

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY52 | V52.10.4 |
|------------------------------|------------------------|-------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy, dz = 5 mm | |
| Frequency | 2450 MHz ± 1 MHz | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 39.2 | 1.80 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 39.1 ± 6 % | 1.87 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 13.8 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 54.2 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 6.43 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 25.5 W/kg ± 16.5 % (k=2) |

Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | 1.95 mho/m 2.01 mho/m ± 6 % | | |
|---|-----------------|--------------|-----------------------------|--|--|
| Nominal Body TSL parameters | 22.0 °C | 52.7 | | | |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 51.2 ± 6 % | | | |
| Body TSL temperature change during test | < 0.5 °C | | = 24 4 4 | | |

SAR result with Body TSL

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 12.7 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 49.7 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 5.98 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 23.6 W/kg ± 16.5 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impeda | nce, transformed to feed point | 52.7 Ω + 6.6 jΩ |
|----------|--------------------------------|-----------------|
| Return l | Loss | - 23.2 dB |

Antenna Parameters with Body TSL

| Impedance, transformed to feed point | 49.9 Ω + 7.9 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 22.1 dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.148 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| Manufactured by | SPEAG |
|-----------------|-------|

DASY5 Validation Report for Head TSL

Date: 09.11.2021

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:921

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.87 \text{ S/m}$; $\varepsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 28.12.2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn601; Calibrated: 01.11.2021

• Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 118.8 V/m; Power Drift = 0.00 dB

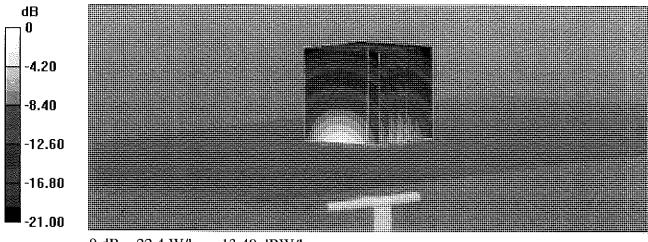
Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.43 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

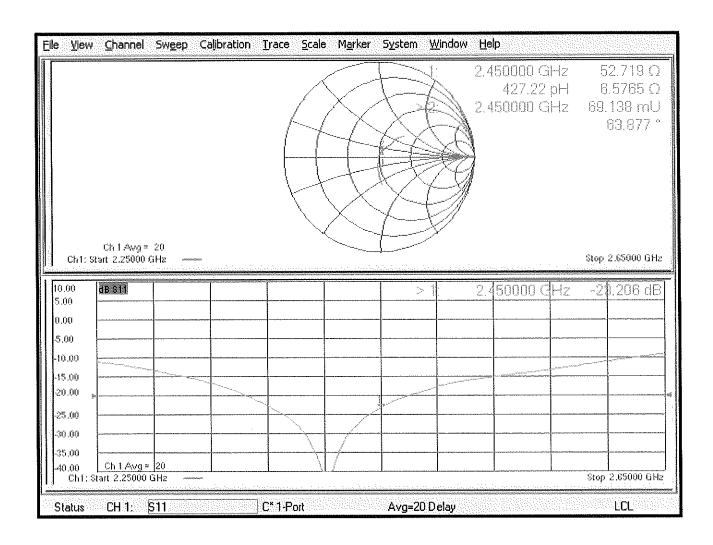
Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 22.4 W/kg



0 dB = 22.4 W/kg = 13.49 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 09.11.2021

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:921

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.01 \text{ S/m}$; $\varepsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe; EX3DV4 - SN7349; ConvF(8.12, 8.12, 8.12) @ 2450 MHz; Calibrated: 28.12.2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 01.11.2021

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.3 V/m; Power Drift = -0.07 dB

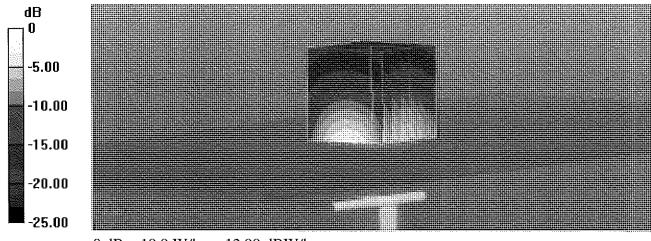
Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 5.98 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

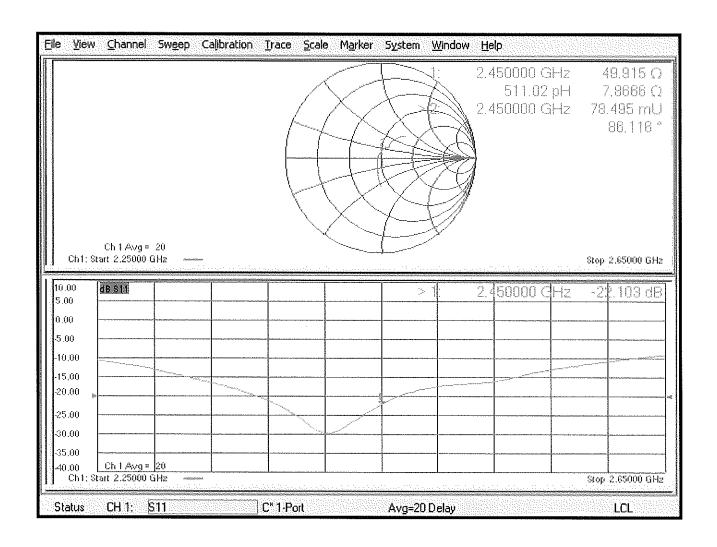
Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

Certificate No: D2450V2-921_Nov21 Page 7 of 8

Impedance Measurement Plot for Body TSL





Element Materials Technology Morgan Hill



Morgan Hill

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http://www.element.com

Certification of Calibration

Object D2450V2 – SN: 921

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: November 09, 2022

Description: SAR Validation Dipole at 2450 MHz.

Calibration Equipment used:

| Manufacturer Model | | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--------------------|---------------|-------------------------------------|------------|--------------|------------|---------------|
| Agilent | 8753ES | S-Parameter Vector Network Analyzer | 12/17/2021 | Annual | 12/17/2022 | MY40000670 |
| Agilent | E4438C | ESG Vector Signal Generator | 3/24/2022 | Annual | 3/24/2023 | MY45093678 |
| Amplifier Research | 15S1G6 | Amplifier | CBT | N/A | CBT | 343972 |
| Anritsu | ML2495A | Power Meter | 3/17/2022 | Annual | 3/17/2023 | 0941001 |
| Anritsu | MA2411B | Pulse Power Sensor | 3/2/2022 | Annual | 3/2/2023 | 1126066 |
| Anritsu | MA2411B | Pulse Power Sensor | 3/28/2022 | Annual | 3/28/2023 | 1339007 |
| Traceable | 4040 90080-06 | Therm./ Clock/ Humidity Monitor | 5/11/2022 | Biennial | 5/11/2024 | 221514974 |
| Control Company | 4353 | Long Stem Thermometer | 9/10/2021 | Biennial | 9/10/2023 | 210774685 |
| Agilent | 85033E | 3.5mm Standard Calibration Kit | 6/21/2022 | Annual | 6/21/2023 | MY53402352 |
| Mini-Circuits | VLF-6000+ | Low Pass Filter DC to 6000 MHz | CBT | N/A | CBT | N/A |
| Narda | 4772-3 | Attenuator (3dB) | CBT | N/A | CBT | 9406 |
| Mini-Circuits | ZHDC-16-63-S+ | 50-6000MHz Bidirectional Coupler | CBT | N/A | CBT | N/A |
| Pasternack | NC-100 | Torque Wrench | 3/19/2022 | Annual | 3/19/2023 | N/A |
| SPEAG | DAK-3.5 | Dielectric Assessment Kit | 4/11/2022 | Annual | 4/11/2023 | 1323 |
| SPEAG | EX3DV4 | SAR Probe | 3/22/2022 | Annual | 3/22/2023 | 7421 |
| SPEAG | EX3DV4 | SAR Probe | 1/19/2022 | Annual | 1/19/2023 | 3837 |
| SPEAG | DAE4 | Dasy Data Acquisition Electronics | 3/22/2022 | Annual | 3/22/2023 | 604 |
| SPEAG | DAE4 | Dasy Data Acquisition Electronics | 1/13/2022 | Annual | 1/13/2023 | 793 |

Measurement Uncertainty = ±23% (k=2)

| | Name | Function | Signature |
|----------------|-----------------|----------------------------------|-----------|
| Calibrated By: | Arturo Oliveros | Associate Compliance Engineer | 10 |
| Approved By: | Kaitlin O'Keefe | Managing Director | 20K |

| Object: | Date Issued: | Page 1 of 4 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 921 | 11/09/2022 | rage ror4 |

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

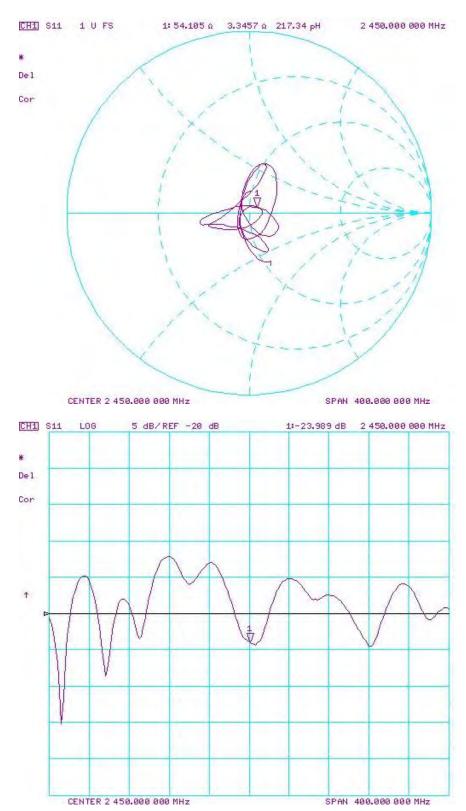
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

| Calibration Date | Extension Date | Certificate Electrical Delay (ns) | Certificate SAR Target Head (1g) W/kg @ 20.0 dBm | Measured Head SAR (1g) W/kg @ 20.0 dBm | Deviation 1g (%) | Certificate SAR Target Head (10g) W/kg @ 20.0 dBm | Measured Head SAR (10g) W/kg @ 20.0 dBm | Deviation 10g (%) | Certificate Impedance Head (Ohm) Real | Measured Impedance Head (Ohm) Real | Difference (Ohm) Real | Certificate Impedance Head (Ohm) Imaginary | | Difference (Ohm) Imaginary | Certificate Return Loss Head (dB) | Measured Return Loss Head (dB) | Deviation (%) | PASS/FAIL |
|---------------------|-------------------|---|---|--|---------------------|--|---|----------------------|---|--|--------------------------|--|-----|----------------------------------|---|--------------------------------------|------------------|-----------|
| 11/9/2021 | 11/9/2022 | 1.148 | 5.42 | 5.47 | 0.92% | 2.55 | 2.56 | 0.39% | 52.7 | 54.1 | 1.4 | 6.6 | 3.3 | 3.3 | -23.2 | -24 | -3.40% | PASS |
| | | | | | | | | | | | | | | | | | | |
| Calibration Date | Extension Date | Certificate Electrical Delay (ns) | Certificate SAR Target Body (1g) W/kg @ 20.0 dBm | Measured Body SAR (1g) W/kg @ 20.0 dBm | Deviation 1g (%) | Certificate SAR Target Body (10g) W/kg @ 20.0 dBm | Measured Body SAR (10g) W/kg @ 20.0 dBm | Deviation 10g (%) | Certificate Impedance Body (Ohm) Real | Measured Impedance Body (Ohm) Real | Difference (Ohm) Real | Certificate Impedance Body (Ohm) Imaginary | | Difference (Ohm) Imaginary | Certificate Return Loss Body (dB) | Retuin Loss | Deviation (%) | PASS/FAIL |
| 11/9/2021 | 11/9/2022 | 1.148 | 4.97 | 5.03 | 1.21% | 2.36 | 2.34 | -0.85% | 49.9 | 52 | 2.1 | 7.9 | 5 | 2.9 | -22.1 | -26.3 | -19.20% | PASS |

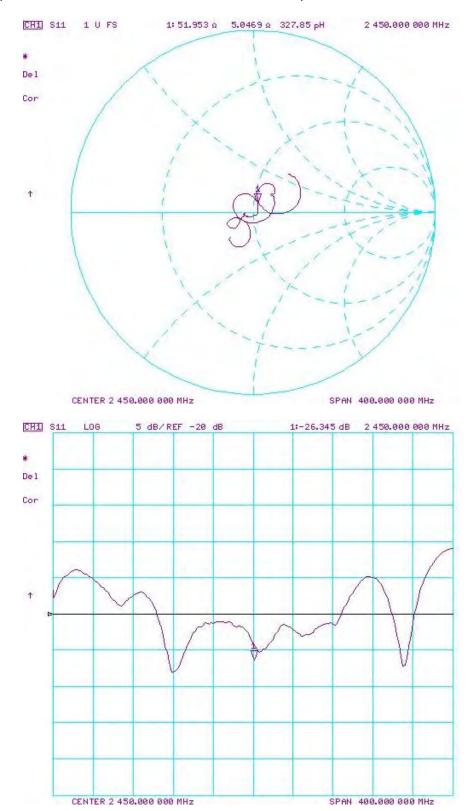
| Object: | Date Issued: | Page 2 of 4 | |
|-------------------|--------------|-------------|--|
| D2450V2 – SN: 921 | 11/09/2022 | raye 2 014 | |

Impedance & Return-Loss Measurement Plot for Head TSL



| Object: | Date Issued: | Page 3 of 4 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 921 | 11/09/2022 | rage 5 014 |

Impedance & Return-Loss Measurement Plot for Body TSL



| Object: | Date Issued: | Page 4 of 4 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 921 | 11/09/2022 | rage 4 01 4 |

element

ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object D2450V2 – SN: 921

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: November 9, 2023

Description: SAR Validation Dipole at 2450 MHz.

Calibration Equipment used:

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--------------------|---------------|-------------------------------------|------------|--------------|------------|---------------|
| Agilent | 8753ES | S-Parameter Vector Network Analyzer | 6/2/2023 | Annual | 6/12/2024 | MY40003841 |
| Agilent | E4438C | ESG Vector Signal Generator | 4/25/2023 | Annual | 4/25/2024 | US41460739 |
| Amplifier Research | 15S1G6 | Amplifier | CBT | N/A | CBT | 343972 |
| Rohde & Schwarz | NRX | Power Meter | 1/11/2023 | Annual | 1/11/2024 | 102583 |
| Rohde & Schwarz | NRP-Z81 | Wide Band Power Sensor | 1/19/2023 | Annual | 1/19/2024 | 106563 |
| Rohde & Schwarz | NRP-Z81 | Wide Band Power Sensor | 1/11/2023 | Annual | 1/11/2024 | 106564 |
| Traceable | 4040 90080-06 | Therm./ Clock/ Humidity Monitor | 5/11/2022 | Biennial | 5/11/2024 | 221514974 |
| Control Company | 4353 | Ultra Long Stem Thermometer | 10/24/2023 | Annual | 10/24/2024 | 200645916 |
| Agilent | 85033E | 3.5mm Standard Calibration Kit | 7/18/2023 | Annual | 7/18/2024 | MY53402352 |
| Mini-Circuits | VLF-6000+ | Low Pass Filter DC to 6000 MHz | CBT | N/A | CBT | N/A |
| Narda | 4772-3 | Attenuator (3dB) | CBT | N/A | CBT | 9406 |
| Mini-Circuits | ZHDC-16-63-S+ | 50-6000MHz Bidirectional Coupler | CBT | N/A | CBT | N/A |
| Pasternack | NC-100 | Torque Wrench | 12/5/2022 | Biennial | 12/5/2024 | N/A |
| SPEAG | DAK-3.5 | Dielectric Assessment Kit | 5/9/2023 | Annual | 5/9/2024 | 1070 |
| SPEAG | EX3DV4 | SAR Probe | 4/18/2023 | Annual | 4/18/2024 | 7532 |
| SPEAG | DAE4 | Dasy Data Acquisition Electronics | 4/14/2023 | Annual | 4/14/2024 | 501 |

Measurement Uncertainty = ±23% (k=2)

| | Name | Function | Signature |
|----------------|-----------------|----------------------------|---------------|
| Calibrated By: | Arturo Oliveros | Compliance Engineer | 40 |
| Approved By: | Greg Snyder | Executive VP of Operations | Lugge M. Sola |

| Object: | Date Issued: | Page 1 of 3 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 921 | 11/9/2023 | rage 1013 |

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

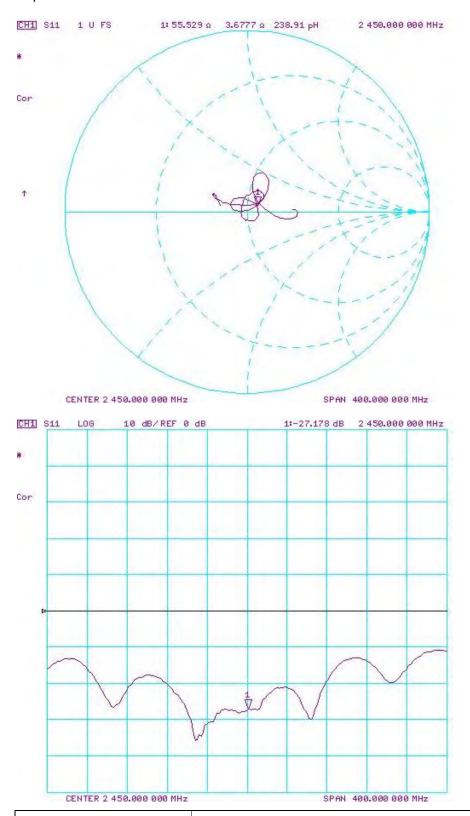
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

| C | Calibration Date | Extension Date | Certificate Electrical Delay (ns) | Certificate SAR Target Head (1g) W/kg @ 20.0 dBm | Measured Head SAR (1g) W/kg @ 20.0 dBm | Deviation 1g (%) | Certificate SAR Target Head (10g) W/kg @ 20.0 dBm | Measured Head SAR (10g) W/kg @ 20.0 dBm | Deviation 10g (%) | Certificate Impedance Head (Ohm) Real | Measured Impedance Head (Ohm) Real | Difference (Ohm) Real | Certificate Impedance Head (Ohm) Imaginary | Measured Impedance Head (Ohm) Imaginary | Difference (Ohm) Imaginary | Certificate Return Loss Head (dB) | | Deviation (%) | |
|---|---------------------|----------------|---|--|---|------------------|---|--|-------------------|--|---|--------------------------|---|--|----------------------------------|---|-------|---------------|--|
| | 11/9/2021 | 11/9/2023 | 1.148 | 5.42 | 5.43 | 0.18% | 2.55 | 2.48 | -2.75% | 52.7 | 55.5 | 2.8 | 6.6 | 3.7 | 2.9 | -23.2 | -27.2 | -17.10% | |

| Object: | Date Issued: | Page 2 of 3 |
|-------------------|--------------|-------------|
| D2450V2 - SN: 921 | 11/9/2023 | raye 2 01 3 |

Impedance & Return-Loss Measurement Plot for Head TSL



| Object: | Date Issued: | Dago 3 of 3 |
|-------------------|--------------|-------------|
| D2450V2 – SN: 921 | 11/9/2023 | Page 3 of 3 |

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

Element

Certificate No: D5GHzV2-1066_Nov22

CALIBRATION CERTIFICATE

Object

D5GHzV2 - SN:1066

Calibration procedure(s)

QA CAL-22.v6

Calibration Procedure for SAR Validation Sources between 3-10 GHz

12/6/22

Calibration date:

November 17, 2022

✓ YW 12/5/2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|---------------------------------|--------------------|-----------------------------------|--------------------------|
| Power meter NRP | SN: 104778 | 04-Apr-22 (No. 217-03525/03524) | Apr-23 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-22 (No. 217-03524) | Apr-23 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-22 (No. 217-03525) | Apr-23 |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 04-Apr-22 (No. 217-03527) | Apr-23 |
| Type-N mismatch combination | SN: 310982 / 06327 | 04-Apr-22 (No. 217-03528) | Apr-23 |
| Reference Probe EX3DV4 | SN: 3503 | 08-Mar-22 (No. EX3-3503_Mar22) | Mar-23 |
| DAE4 | SN: 601 | 31-Aug-22 (No. DAE4-601_Aug22) | Aug-23 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB39512475 | 30-Oct-14 (in house check Oct-22) | In house check: Oct-24 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-22) | In house check: Oct-24 |
| Power sensor HP 8481A | SN: MY41093315 | 07-Oct-15 (in house check Oct-22) | In house check: Oct-24 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-22) | In house check: Oct-24 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |
| | Name | Function | Sìgnature |
| Calibrated by: | Jeffrey Katzman | Laboratory Technician | |
| | | | |
| Approved by: | Sven Kühn | Technical Manager | Commission of the second |
| | | | |

Issued: November 17, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Swiss Calibration Service

Accreditation No.: SCS 0108

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Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A

not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D5GHzV2-1066 Nov22

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | 5 | |
|------------------------------|--|----------------------------------|
| DASY Version | DASY52 | V52.10.4 |
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom V5.0 | |
| Distance Dipole Center - TSL | 10 mm | with Spacer |
| Zoom Scan Resolution | dx, dy = 4.0 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5850 MHz ± 1 MHz | |

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.9 | 4.71 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 36.0 ± 6 % | 4.60 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 5250 MHz

| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.03 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 80.3 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.31 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.1 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.5 | 5.07 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.4 ± 6 % | 4.97 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 5600 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.40 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 83.9 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.41 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.1 W/kg ± 19.5 % (k=2) |

Certificate No: D5GHzV2-1066_Nov22 Page 3 of 14

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22,0 °C | 35.4 | 5.22 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.2 ± 6 % | 5.13 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | 777 |

SAR result with Head TSL at 5750 MHz

| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | *************************************** |
|---|--------------------|---|
| SAR measured | 100 mW input power | 7.97 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 79.5 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.27 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 22.6 W/kg ± 19.5 % (k=2) |

Head TSL parameters at 5850 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 35.2 | 5.32 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.1 ± 6 % | 5.24 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 5850 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 8.23 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 82.2 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.34 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 23.4 W/kg ± 19.5 % (k=2) |

Certificate No: D5GHzV2-1066_Nov22

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.9 | 5.36 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 48.3 ± 6 % | 5.49 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | |

SAR result with Body TSL at 5250 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | · · · · · · · · · · · · · · · · · · · |
|---|--------------------|---------------------------------------|
| SAR measured | 100 mW input power | 7.47 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 74.5 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.09 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 20.9 W/kg ± 19.5 % (k=2) |

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.5 | 5.77 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 47.7 ± 6 % | 5.96 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | PR 40-40-10 |

SAR result with Body TSL at 5600 MHz

| SAR averaged over 1 cm ³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.90 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 78.9 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.20 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 22.0 W/kg ± 19.5 % (k=2) |

Certificate No: D5GHzV2-1066_Nov22

Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.3 | 5.94 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 47.4 ± 6 % | 6.17 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | |

SAR result with Body TSL at 5750 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.34 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 73.3 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.04 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 20.3 W/kg ± 19.5 % (k=2) |

Body TSL parameters at 5850 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Body TSL parameters | 22.0 °C | 48.1 | 6.06 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 47.2 ± 6 % | 6.31 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | | |

SAR result with Body TSL at 5850 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 7.54 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 75.2 W/kg ± 19.9 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Body TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 2.09 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | 20.8 W/kg ± 19.5 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

| Impedance, transformed to feed point | 50.5 Ω - 4.4 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 27.1 dB |

Antenna Parameters with Head TSL at 5600 MHz

| Impedance, transformed to feed point | 56.9 Ω - 0.1 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 23.8 dB |

Antenna Parameters with Head TSL at 5750 MHz

| Impedance, transformed to feed point | 55.3 Ω + 1.7 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 25.5 dB |

Antenna Parameters with Head TSL at 5850 MHz

| Impedance, transformed to feed point | 56.1 Ω - 1.5 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 24.6 dB |

Certificate No: D5GHzV2-1066_Nov22

Antenna Parameters with Body TSL at 5250 MHz

| Impedance, transformed to feed point | 50.1 Ω - 2.4 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 32.4 dB |

Antenna Parameters with Body TSL at 5600 MHz

| Impedance, transformed to feed point | 56.9 Ω + 1.5 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 23.6 dB |

Antenna Parameters with Body TSL at 5750 MHz

| Impedance, transformed to feed point | 56.9 Ω + 2.1 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 23.4 dB |

Antenna Parameters with Body TSL at 5850 MHz

| Impedance, transformed to feed point | 57.3 Ω - 0.5 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 23.4 dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.195 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| Manufactured by | SPEAG |
|-----------------|-------|

DASY5 Validation Report for Head TSL

Date: 14.11.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1066

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750

MHz, Frequency: 5850 MHz

Medium parameters used: f = 5250 MHz; $\sigma = 4.60 \text{ S/m}$; $\varepsilon_r = 36.0$; $\rho = 1000 \text{ kg/m}^3$,

Medium parameters used: f = 5600 MHz; $\sigma = 4.97 \text{ S/m}$; $\varepsilon_r = 35.4$; $\rho = 1000 \text{ kg/m}^3$

Medium parameters used: f = 5750 MHz; $\sigma = 5.13$ S/m; $\varepsilon_r = 35.2$; $\rho = 1000$ kg/m³.

Medium parameters used: f = 5850 MHz; $\sigma = 5.24 \text{ S/m}$; $\varepsilon_r = 35.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.08, 5.08, 5.08) @ 5750 MHz, ConvF(4.99, 4.99, 4.99) @ 5850 MHz; Calibrated: 08.03.2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 31.08.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.31 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.31 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.8%

Maximum value of SAR (measured) = 18.1 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.64 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 8.40 W/kg; SAR(10 g) = 2.41 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 68.2%

Maximum value of SAR (measured) = 19.4 W/kg

Certificate No: D5GHzV2-1066_Nov22 Page 9 of 14

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.74 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 30.7 W/kg

SAR(1 g) = 7.97 W/kg; SAR(10 g) = 2.27 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 66.3%

Maximum value of SAR (measured) = 18.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5850 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.18 V/m; Power Drift = -0.04 dB

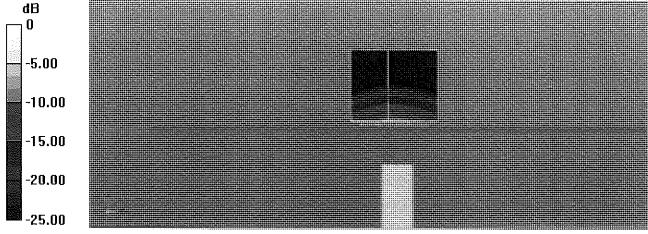
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.34 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

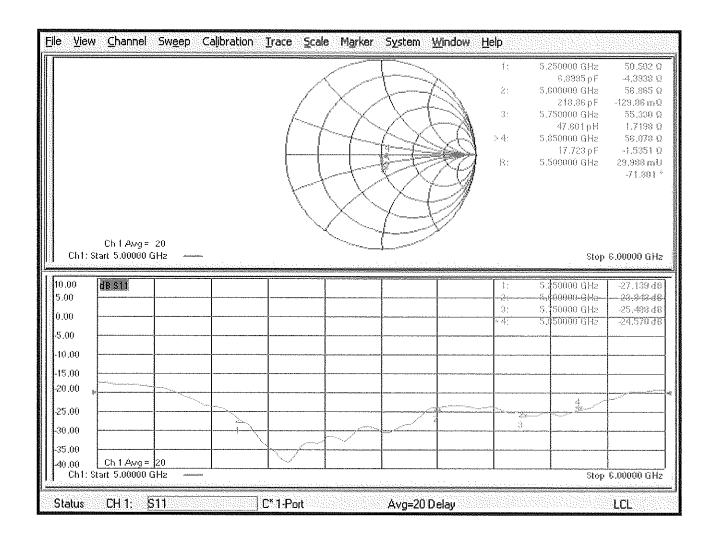
Ratio of SAR at M2 to SAR at M1 = 65.6%

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.93 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 17.11.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1066

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750

MHz, Frequency: 5850 MHz

Medium parameters used: f = 5250 MHz; $\sigma = 5.49 \text{ S/m}$; $\varepsilon_r = 48.3$; $\rho = 1000 \text{ kg/m}^3$,

Medium parameters used: f = 5600 MHz; $\sigma = 5.96 \text{ S/m}$; $\epsilon_r = 47.7$; $\rho = 1000 \text{ kg/m}^3$,

Medium parameters used: f = 5750 MHz; $\sigma = 6.17$ S/m; $\varepsilon_r = 47.4$; $\rho = 1000$ kg/m³.

Medium parameters used: f = 5850 MHz; $\sigma = 6.31 \text{ S/m}$; $\varepsilon_r = 47.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.26, 5.26, 5.26) @ 5250 MHz, ConvF(4.79, 4.79, 4.79) @ 5600 MHz, ConvF(4.66, 4.66, 4.66) @ 5750 MHz, ConvF(4.61, 4.61, 4.61) @ 5850 MHz; Calibrated: 08.03,2022
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 31.08.2022
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5250 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.40 V/m: Power Drift = -0.09 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 7.47 W/kg; SAR(10 g) = 2.09 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 67.4%

Maximum value of SAR (measured) = 17.3 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.97 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.90 W/kg; SAR(10 g) = 2.20 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.2%

Maximum value of SAR (measured) = 19.2 W/kg

Certificate No: D5GHzV2-1066_Nov22

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 64.01 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.34 W/kg; SAR(10 g) = 2.04 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 18.3 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5850 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 63.69 V/m; Power Drift = -0.07 dB

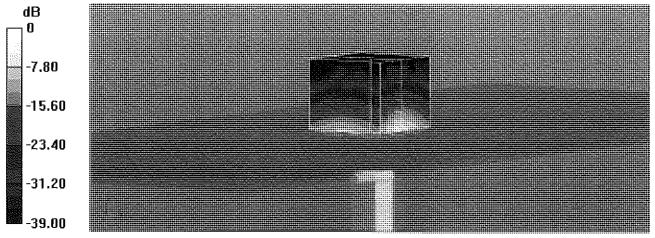
Peak SAR (extrapolated) = 33.1 W/kg

SAR(1 g) = 7.54 W/kg; SAR(10 g) = 2.09 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

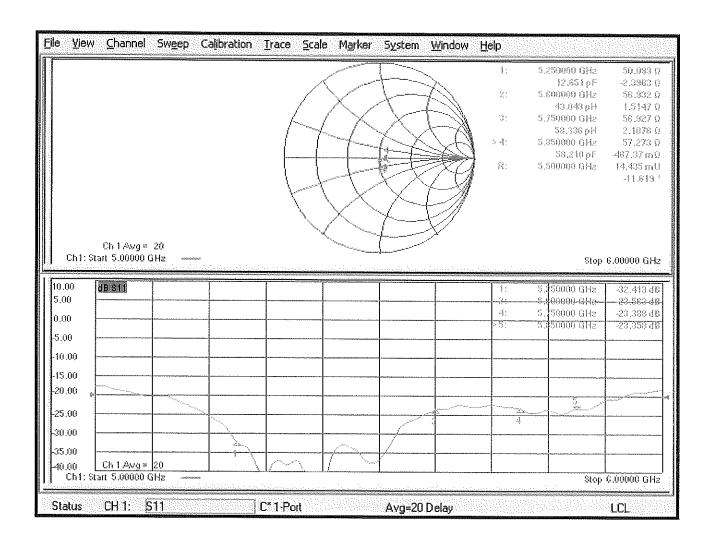
Ratio of SAR at M2 to SAR at M1 = 62.4%

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.2 W/kg = 12.84 dBW/kg

Impedance Measurement Plot for Body TSL



element

ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST) 18855 Adams Ct, Morgan Hill, CA 95037 USA Tel. +1.408.538.5600 http://www.element.com



Certification of Calibration

Object D5GHzV2 – SN: 1066

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extension Calibration date: November 17, 2023

Description: SAR Validation Dipole at 5250,5600,5750,5850 MHz.

Calibration Equipment used:

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|--------------------|---------------|-------------------------------------|------------|--------------|------------|---------------|
| Agilent | 8753ES | S-Parameter Vector Network Analyzer | 6/2/2023 | Annual | 6/12/2024 | MY40003841 |
| Agilent | E4438C | ESG Vector Signal Generator | 4/25/2023 | Annual | 4/25/2024 | US41460739 |
| Amplifier Research | 15S1G6 | Amplifier | CBT | N/A | CBT | 343972 |
| Rohde & Schwarz | NRX | Power Meter | 1/11/2023 | Annual | 1/11/2024 | 102583 |
| Rohde & Schwarz | NRP-Z81 | Wide Band Power Sensor | 1/19/2023 | Annual | 1/19/2024 | 106563 |
| Rohde & Schwarz | NRP-Z81 | Wide Band Power Sensor | 1/11/2023 | Annual | 1/11/2024 | 106564 |
| Traceable | 4040 90080-06 | Therm./ Clock/ Humidity Monitor | 5/11/2022 | Biennial | 5/11/2024 | 221514974 |
| Control Company | 4353 | Ultra Long Stem Thermometer | 10/24/2023 | Annual | 10/24/2024 | 200645916 |
| Agilent | 85033E | 3.5mm Standard Calibration Kit | 7/18/2023 | Annual | 7/18/2024 | MY53402352 |
| Mini-Circuits | VLF-6000+ | Low Pass Filter DC to 6000 MHz | CBT | N/A | CBT | N/A |
| Narda | 4772-3 | Attenuator (3dB) | CBT | N/A | CBT | 9406 |
| Mini-Circuits | ZHDC-16-63-S+ | 50-6000MHz Bidirectional Coupler | CBT | N/A | CBT | N/A |
| Pasternack | NC-100 | Torque Wrench | 12/5/2022 | Biennial | 12/5/2024 | N/A |
| SPEAG | DAK-3.5 | Dielectric Assessment Kit | 5/9/2023 | Annual | 5/9/2024 | 1070 |
| SPEAG | EX3DV4 | SAR Probe | 10/2/2023 | Annual | 10/2/2024 | 3949 |
| SPEAG | DAE4 | Dasy Data Acquisition Electronics | 9/12/2023 | Annual | 9/12/2024 | 1684 |

Measurement Uncertainty = ±23% (k=2)

| | Name | Function | Signature |
|----------------|-----------------|----------------------------|-----------|
| Calibrated By: | Arturo Oliveros | Compliance Engineer | 40 |
| Approved By: | Greg Snyder | Executive VP of Operations | LuggedSyl |

| Object: | Date Issued: | Page 1 of 6 |
|--------------------|--------------|-------------|
| D5GHzV2 – SN: 1066 | 11/17/2023 | rage 1010 |

DIPOLE CALIBRATION EXTENSION

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

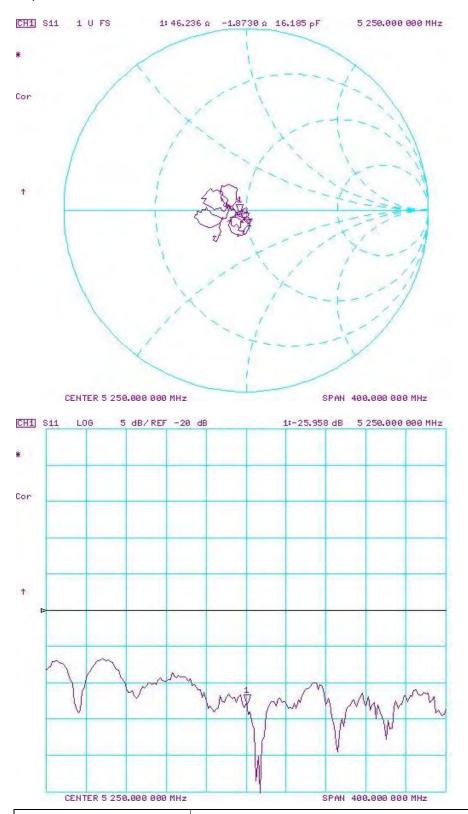
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

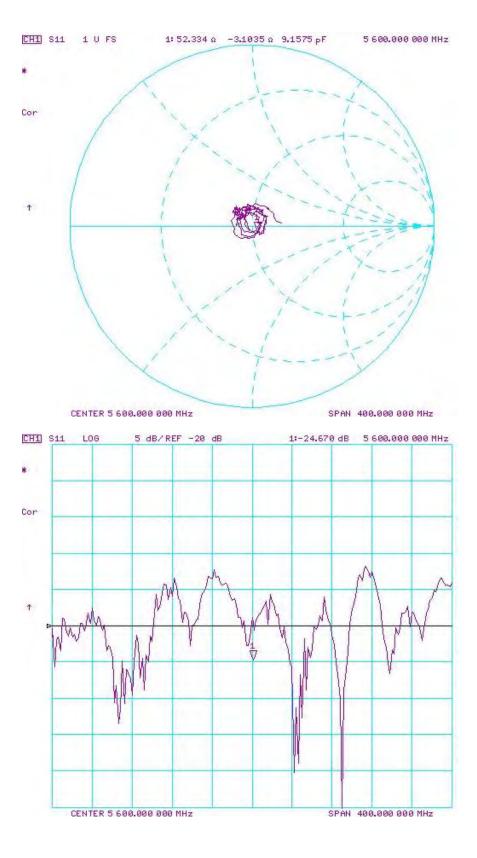
| Frequency (MHz) | Calibration Date | Extension Date | Certificate Electrical Delay (ns) | Certificate SAR Target Head (1g) W/kg @ 17.0 dBm | Measured Head SAR (1g) W/kg @ 17.0 dBm | Deviation 1g (%) | Certificate SAR Target Head (10g) W/kg @ 17.0 dBm | Measured Head SAR (10g) W/kg @ 17.0 dBm | | | Measured Impedance Head (Ohm) Real | Difference (Ohm) Real | Certificate Impedance Head (Ohm) Imaginary | Measured Impedance Head (Ohm) Imaginary | Difference (Ohm) Imaginary | Certificate Return Loss Head (dB) | Measured Return Loss Head (dB) | Deviation (%) |
|--------------------|---------------------|----------------|---|--|--|---------------------|---|---|--------|------|---|--------------------------|---|--|----------------------------------|---|--------------------------------------|------------------|
| 5250 | 11/17/2022 | 11/17/2023 | 1.195 | 4.02 | 3.93 | -2.12% | 1.16 | 1.12 | -3.03% | 50.5 | 46.2 | 4.3 | -4.4 | -1.9 | 2.5 | -27.1 | -26.0 | 4.20% |
| 5600 | 11/17/2022 | 11/17/2023 | 1.195 | 4.20 | 4.00 | -4.65% | 1.21 | 1.13 | -6.22% | 56.9 | 52.3 | 4.6 | -0.1 | -3.1 | 3.0 | -23.8 | -24.7 | -3.70% |
| 5750 | 11/17/2022 | 11/17/2023 | 1.195 | 3.98 | 3.68 | -7.42% | 1.13 | 1.04 | -7.96% | 55.3 | 51.5 | 3.8 | 1.7 | 3.1 | 1.4 | -25.5 | -21.4 | 16.20% |
| 5850 | 11/17/2022 | 11/17/2023 | 1.195 | 4.11 | 3.84 | -6.57% | 1.17 | 1.08 | -7.69% | 56.1 | 52.9 | 3.2 | -1.5 | -5.6 | 4.1 | -24.6 | -22.3 | 9.20% |

| Object: | Date Issued: | Page 2 of 6 |
|--------------------|--------------|-------------|
| D5GHzV2 - SN: 1066 | 11/17/2023 | rage 2 01 0 |

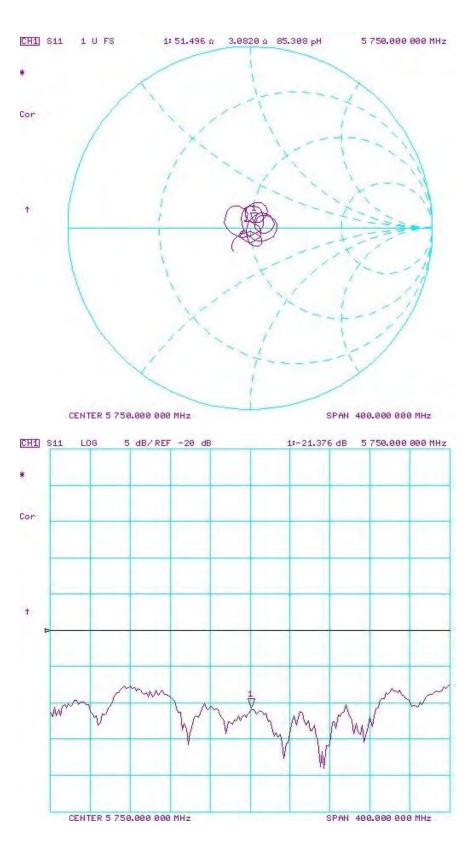
Impedance & Return-Loss Measurement Plot for Head TSL



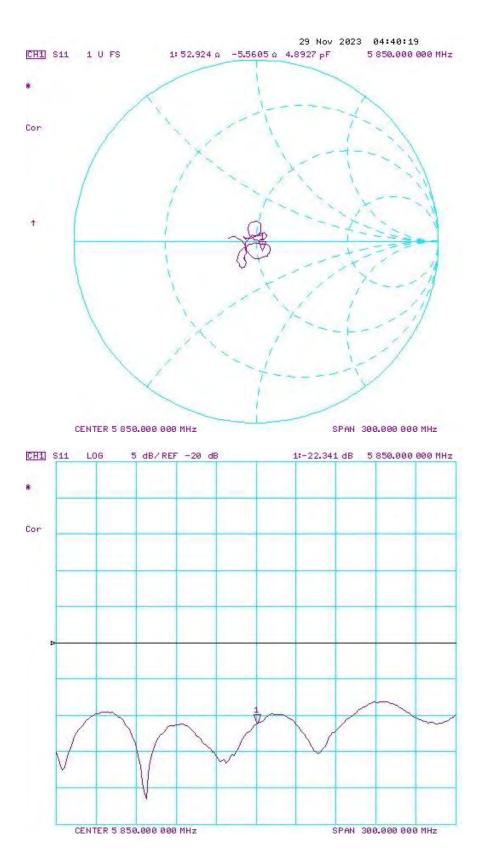
| Object: | Date Issued: | Page 3 of 6 |
|--------------------|--------------|-------------|
| D5GHzV2 – SN: 1066 | 11/17/2023 | Page 3 of 6 |



| Object: | Date Issued: | Page 4 of 6 |
|--------------------|--------------|-------------|
| D5GHzV2 - SN: 1066 | 11/17/2023 | rage 4 or 0 |



| Object: | Date Issued: | Page 5 of 6 |
|--------------------|--------------|-------------|
| D5GHzV2 - SN: 1066 | 11/17/2023 | rage 5 or 0 |



| Object: | Date Issued: | Page 6 of 6 |
|--------------------|--------------|-------------|
| D5GHzV2 - SN: 1066 | 11/17/2023 | rage o or o |

Calibration Laboratory of Schmid & Partner **Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura **Swiss Calibration Service**

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

Element

Morgan Hill, USA

Certificate No. D6.5GHzV2-1019 Oct23

CALIBRATION CERTIFICATE

Object

D6.5GHzV2 - SN:1019

Calibration procedure(s)

QA CAL-22.v7

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date:

October 11, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration | |
|----------------------------|------------------|--------------------------------|-----------------------|--|
| Power sensor R&S NRP33T | SN: 100967 | 03-Apr-23 (No. 217-03806) | Apr-24 | |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 30-Mar-23 (No. 217-03809) | Mar-24 | |
| Mismatch combination | SN: 84224 / 360D | 03-Apr-23 (No. 217-03812) | Apr-24 | |
| Reference Probe EX3DV4 | SN: 7405 | 12-Jun-23 (No. EX3-7405_Jun23) | Jun-24 | |
| DAE4 | SN: 908 | 03-Jul-23 (No. DAE4-908_Jul23) | Jul-24 | |
| | 3.34.34.3 | | | |

| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
|----------------------------------|---------------|-----------------------------------|------------------------|
| RF generator Anapico APSIN20G | SN: 827 | 18-Dec-18 (in house check Dec-21) | In house check: Dec-23 |
| Power sensor NRP-Z23 | SN: 100169 | 10-Jan-19 (in house check Nov-22) | In house check: Nov-23 |
| Power sensor NRP-18T | SN: 100950 | 28-Sep-22 (in house check Nov-22) | In house check: Nov-23 |
| Network Analyzer Keysight E5063A | SN:MY54504221 | 31-Oct-19 (in house check Oct-22) | In house check: Oct-25 |

Calibrated by:

Name Function Jeton Kastrati Laboratory Technician

Approved by:

Sven Kühn Technical Manager

Issued: October 12, 2023

Signature

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D6.5GHzV2-1019_Oct23

Page 1 of 6

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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura **Swiss Calibration Service**

Glossary:

TSL

tissue simulating liquid

ConvF

N/A

sensitivity in TSL / NORM x,v,z not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range Of 4 MHz To 10 GHz)", October 2020.

Additional Documentation:

b) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.
- The absorbed power density (APD): The absorbed power density is evaluated according to Samaras T, Christ A, Kuster N, "Compliance assessment of the epithelial or absorbed power density above 6 GHz using SAR measurement systems", Bioelectromagnetics, 2021 (submitted). The additional evaluation uncertainty of 0.55 dB (rectangular distribution) is considered.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D6.5GHzV2-1019 Oct23

Page 2 of 6

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY6 | V16.2 | |
|------------------------------|--------------------------------|----------------------------------|--|
| Extrapolation | Advanced Extrapolation | | |
| Phantom | Modular Flat Phantom | | |
| Distance Dipole Center - TSL | 5 mm | with Spacer | |
| Zoom Scan Resolution | dx, dy = 3.4 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) | |
| Frequency | 6500 MHz ± 1 MHz | | |

Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|-----------------|----------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 34.5 | 6.07 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 34.1 ± 6 % | 6.19 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | tul tu. 10-40- | |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | | |
|---|--------------------|-------------------------|--|
| SAR measured | 100 mW input power | 29.4 W/kg | |
| SAR for nominal Head TSL parameters | normalized to 1W | 293 W/kg ± 24.7 % (k=2) | |

| SAR averaged over 8 cm³ (8 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 6.62 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 66.1 W/kg ± 24.4 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 5.43 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 54.1 W/kg ± 24.4 % (k=2) |

Certificate No: D6.5GHzV2-1019_Oct23

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 4 9.5 Ω - 5.9 jΩ | |
|--------------------------------------|-------------------------|--|
| Return Loss | - 2 4 .5 dB | |

APD (Absorbed Power Density)

| APD averaged over 1 cm ² | Condition | |
|-------------------------------------|--------------------|--------------------------|
| APD measured | 100 mW input power | 293 W/m² |
| APD measured | normalized to 1W | 2930 W/m² ± 29.2 % (k=2) |

| APD averaged over 4 cm ² | condition | |
|-------------------------------------|--------------------|--------------------------|
| APD measured | 100 mW input power | 132 W/m² |
| APD measured | normalized to 1W | 1320 W/m² ± 28.9 % (k=2) |

^{*}The reported APD values have been derived using the psSAR1g and psSAR8g.

General Antenna Parameters and Design

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

| Manufactured by | SPEAG |
|-----------------|-------|

Certificate No: D6.5GHzV2-1019_Oct23 Page 4 of 6

DASY6 Validation Report for Head TSL

Measurement Report for D6.5GHz-1019, UID 0 -, Channel 6500 (6500.0MHz)

| Name, Manufa | acturer Di | mensions | [mm] | IMEI | DUT Ty | pe | |
|---------------|----------------|--------------|--------|-----------|------------|-----------|--------------|
| D6.5GHz | 10 | 0.0 x 10.0 x | x 10.0 | SN: 1019 | <u> </u> | | |
| Exposure Cond | ditions | | | | | | |
| Phantom | Position, Test | Band | Group, | Frequency | Conversion | TSL Cond. | TSL |
| Section, TSL | Distance | | UID | [MHz] | Factor | [S/m] | Permittivity |
| | [mm] | | | | | | |
| Flat, HSL | 5.00 | Band | CW, | 6500 | 5.50 | 6.19 | 34.1 |

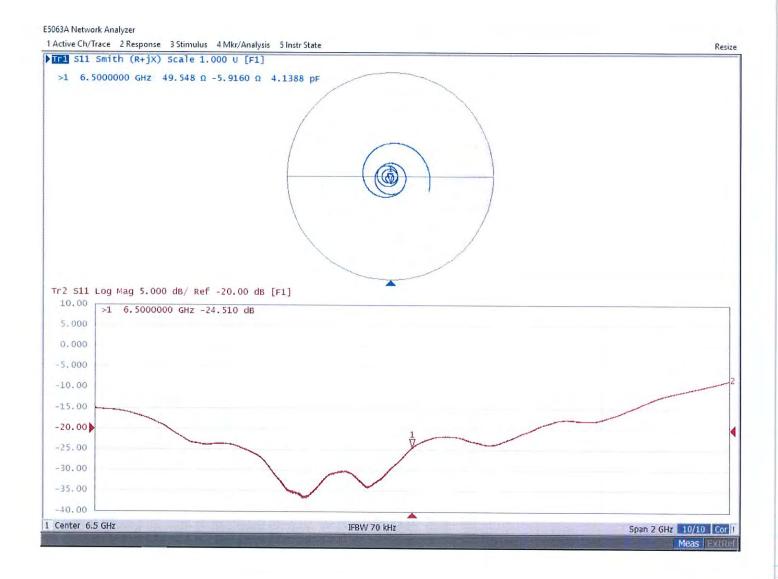
Hardware Setup

| Phantom | TSL | Probe, Calibration Date | DAE, Calibration Date | |
|------------------------|-----------------|--------------------------------|------------------------|--|
| MFP V8.0 Center - 1182 | HBBL600-10000V6 | EX3DV4 - SN7405, 2023-06-12 | DAE4 Sn908, 2023-07-03 | |

| Scan Setup | | Measurement Results | |
|---------------------|-----------------------------|----------------------------|-------------------|
| | Zoom Scan | | Zoom Scan |
| Grid Extents [mm] | 22.0 x 22.0 x 22.0 | Date | 2023-10-11, 12:13 |
| Grid Steps [mm] | $3.4 \times 3.4 \times 1.4$ | psSAR1g [W/Kg] | 29.4 |
| Sensor Surface [mm] | 1.4 | psSAR8g [W/Kg] | 6.62 |
| Graded Grid | Yes | psSAR10g [W/Kg] | 5.43 |
| Grading Ratio | 1.4 | Power Drift [dB] | -0.01 |
| MAIA | N/A | Power Scaling | Disabled |
| Surface Detection | VMS + 6p | Scaling Factor [dB] | |
| Scan Method | Measured | TSL Correction | No correction |
| | | M2/M1 [%] | 50.2 |
| | | Dist 3dB Peak [mm] | 4.8 |



Impedance Measurement Plot for Head TSL



Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Swiss Calibration Service

Accreditation No.: SCS 0108

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Client

Element Columbia, USA Certificate No. 5G-Veri10-1006_Oct23

CALIBRATION CERTIFICATE

Object 5G Verification Source 10 GHz - SN: 1006

Calibration procedure(s) QA CAL-45.v4

Calibration procedure for sources in air above 6 GHz

11/16/23

Calibration date: October 13, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

ID#

Primary Standards

| Secondary Standards | 1111111 | | |
|---------------------|----------|-----------------------------------|--|
| | ID# | Check Date (in house) | Scheduled Check |
| DAE4ip | SN: 1602 | 05-Jul-23 (No. DAE4ip-1602_Jul23) | Jul-24 |
| | | 22-May-23 (No. EUmm-9374_May23) | * 3 / Sk. 13 |

Cal Date (Certificate No.)

Secondary StandardsID #Check Date (in house)Scheduled CheckRF generator R&S SMF100ASN: 10018419-May-22 (in house check Nov-22)In house check: Nov-23Power sensor R&S NRP18S-10SN: 10125831-May-22 (in house check Nov-22)In house check: Nov-23Network Analyzer Keysight E5063ASN: MY5450422131-Oct-19 (in house check Oct-22)In house check: Oct-25

Name Function Signature

Calibrated by: Joanna Lleshaj Laboratory Technician

Sven Kühn Technical Manager

Issued: October 16, 2023

Scheduled Calibration

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Approved by:

Calibration Laboratory of

Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Glossary

Accredited by the Swiss Accreditation Service (SAS)

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Multilateral Agreement for the recognition of calibration certificates

CW

Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45, Calibration procedure for sources in air above 6 GHz.
- IEC/IEEE 63195-1, "Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz)", May 2022

Methods Applied and Interpretation of Parameters

- Coordinate System: z-axis in the waveguide horn boresight, x-axis is in the direction of the
 E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and
 horn flange.
- Measurement Conditions: (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by farfield measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- Horn Positioning: The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- E- field distribution: E field is measured in two x-y-plane (10mm, 10mm + λ/4) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-fieldmaxima and the averaged (1cm² and 4cm²) power density values at 10mm in front of the horn.
- Field polarization: Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

 Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY8 Module mmWave | V3.2 |
|--------------------------------|----------------------|------|
| Phantom | 5G Phantom | |
| Distance Horn Aperture - plane | 10 mm | |
| Number of measured planes | 2 (10mm, 10mm + λ/4) | |
| Frequency | 10 GHz ± 10 MHz | |

Calibration Parameters, 10 GHz

Circular Averaging

| • | | | | | | |
|----------------|-------|-------------|-------------|----------------------------------|-------------------|-------------|
| Distance Horn | Prad1 | Max E-field | Uncertainty | Avg Power Density | | Uncertainty |
| Aperture to | (mW) | (V/m) | (k = 2) | Avg (psPDn+, psPDtot+, psPDmod+) | | (k = 2) |
| Measured Plane | | | | (W/m²) | | |
| | | | | 1 cm² | 4 cm ² | |
| 10 mm | 93.3 | 157 | 1.27 dB | 64.1 | 58.9 | 1.28 dB |

| Distance Horn | Prad1 | Max E-field | Uncertainty | Power Density | | Uncertainty |
|----------------|-------|-------------|-------------|----------------------------|-------------------|-------------|
| Aperture to | (mW) | (V/m) | (k = 2) | psPDn+, psPDtot+, psPDmod+ | | (k = 2) |
| Measured Plane | | | | (W/m²) | | |
| | | | | 1 cm² | 4 cm ² | |
| 10 mm | 93.3 | 157 | 1.27 dB | 63.9, 64.1, 64.4 | 58.5, 58.9, 59.2 | 1.28 dB |

Square Averaging

| Distance Horn | Prad1 | Max E-field | Uncertainty | Avg Power Density | | Uncertainty |
|----------------|-------|-------------|-------------|----------------------------------|-------------------|-------------|
| Aperture to | (mW) | (V/m) | (k = 2) | Avg (psPDn+, psPDtot+, psPDmod+) | | (k = 2) |
| Measured Plane | | | | (W/m²) | | |
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 93.3 | 157 | 1.27 dB | 64.1 | 58.7 | 1.28 dB |

| Distance Horn | Prad1 | Max E-field | Uncertainty | Power Density | | Uncertainty |
|----------------|-------|-------------|-------------|----------------------------|-------------------|-------------|
| Aperture to | (mW) | (V/m) | (k = 2) | psPDn+, psPDtot+, psPDmod+ | | (k = 2) |
| Measured Plane | | | | (W/m²) | | |
| | | | | 1 cm² | 4 cm ² | |
| 10 mm | 93.3 | 157 | 1.27 dB | 63.9, 64.1, 64.4 | 58.3, 58.8, 59.1 | 1.28 dB |

Max Power Density

| Distance Horn | Pradi | Max E-field | Uncertainty | Max Power Density | Uncertainty |
|----------------|-------|-------------|-------------|-------------------|-------------|
| Aperture to | (mW) | (V/m) | (k = 2) | Sn, Stot, Stot | (k = 2) |
| Measured Plane | | | | (W/m²) | |
| 10 mm | 93.3 | 157 | 1.27 dB | 66.0, 66.2, 66.4 | 1.28 dB |

Certificate No: 5G-Veri10-1006_Oct23

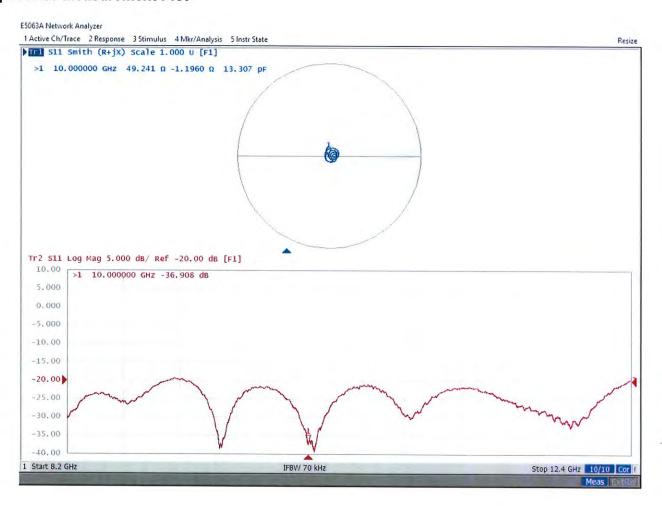
¹ Assessed ohmic and mismatch loss plus numerical offset: 0.30 dB

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

| Impedance, transformed to feed point | 49.2 Ω - 1.2 jΩ | |
|--------------------------------------|-----------------|--|
| Return Loss | - 36.9 dB | |

Impedance Measurement Plot



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer Dimensions [mm] IMEI **DUT Type** 5G Verification Source 10 GHz 100.0 x 100.0 x 172.0 SN: 1006

Exposure Conditions

Phantom Section Position, Test Distance Frequency [MHz], **Conversion Factor** Band Group, **Channel Number** [mm] 10000.0, 5G -10.0 mm Validation band CW 1.0 10000

Hardware Setup

Probe, Calibration Date DAE, Calibration Date Phantom Medium mmWave Phantom - 1002 EUmmWV3 - SN9374_F1-55GHz, DAE4ip Sn1602, Air 2023-07-05 2023-05-22

Scan Setun

| Scan Setup | | Measurement Results | |
|---------------------|---------------|---------------------------------|--------------------|
| | 5G Scan | | 5G Scan |
| Sensor Surface [mm] | 10.0 | Date | 2023-10-13, 09:28 |
| MAIA | MAIA not used | Avg. Area [cm ²] | 1.00 |
| | | Avg. Type | Circular Averaging |
| | | psPDn+ [W/m ²] | 63.9 |
| | | psPDtot+ [W/m²] | 64.1 |
| | | psPDmod+ [W/m²] | 64.4 |
| | | Max(Sn) [W/m ²] | 66.0 |
| | | Max(Stot) [W/m ²] | 66.2 |
| | | Max(Stot) [W/m ²] | 66.4 |
| | | E _{max} [V/m] | 157 |
| | | Power Drift [dB] | -0.00 |



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer Dimensions [mm] IMEI **DUT Type** 5G Verification Source 10 GHz 100.0 x 100.0 x 172.0 SN: 1006

Exposure Conditions

Phantom Section Position, Test Distance Band Frequency [MHz], Group, **Conversion Factor** [mm] **Channel Number** 5G -10.0 mm Validation band 10000.0, CW 1.0 10000

Hardware Setup

| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
|-----------------------|--------|----------------------------|-----------------------|
| mmWave Phantom - 1002 | Air | EUmmWV3 - SN9374_F1-55GHz, | DAE4ip Sn1602, |
| | | 2023-05-22 | 2023-07-05 |

| Scan Setup | | Measurement Results | |
|---------------------|---------------|---------------------------------|--------------------|
| | 5G Scan | | 5G Scan |
| Sensor Surface [mm] | 10.0 | Date | 2023-10-13, 09:28 |
| MAIA | MAIA not used | Avg. Area [cm ²] | 4.00 |
| | | Avg. Type | Circular Averaging |
| | | psPDn+ [W/m ²] | 58.5 |
| | | psPDtot+ [W/m²] | 58.9 |
| | | psPDmod+ [W/m²] | 59.2 |
| | | Max(Sn) [W/m ²] | 66.0 |
| | | Max(Stot) [W/m ²] | 66.2 |
| | | Max(Stot) [W/m ²] | 66.4 |
| | | E _{max} [V/m] | 157 |
| | | Power Drift [dB] | -0.00 |



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer Dimensions [mm] IMEI **DUT Type** 5G Verification Source 10 GHz 100.0 x 100.0 x 172.0 SN: 1006

Exposure Conditions

Phantom Section Position, Test Distance Band Group, Frequency [MHz], **Conversion Factor** [mm] **Channel Number** 5G -10.0 mm Validation band 10000.0. CW 1.0 10000

Hardware Setup

Phantom Medium Probe, Calibration Date **DAE, Calibration Date** EUmmWV3 - SN9374_F1-55GHz, mmWave Phantom - 1002 Air DAE4ip Sn1602, 2023-05-22 2023-07-05

Scan Setup **Measurement Results** 5G Scan 5G Scan Sensor Surface [mm] 10.0 2023-10-13, 09:28 Date MAIA MAIA not used Avg. Area [cm²] Avg. Type **Square Averaging** psPDn+ [W/m²] 63.9 psPDtot+ [W/m²] 64.1 psPDmod+ [W/m²] 64.4 Max(Sn) [W/m²] 66.0 Max(Stot) [W/m²] 66.2 Max(|Stot|) [W/m²] 66.4 E_{max} [V/m] 157 Power Drift [dB] -0.00



Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer 5G Verification Source 10 GHz Dimensions [mm] 100.0 x 100.0 x 172.0 IMEI SN: 1006 **DUT Type**

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | |
|-----------------|------------------------------|-----------------|--|
| 5G - | 10.0 mm | Validation band | |

Group,

CW

Frequency [MHz], **Channel Number**

Conversion Factor

10000.0,

10000

1.0

Hardware Setup

Phantom mmWave Phantom - 1002 Medium

Probe, Calibration Date EUmmWV3 - SN9374_F1-55GHz, 2023-05-22

DAE, Calibration Date DAE4ip Sn1602, 2023-07-05

Scan Setup

Sensor Surface [mm] MAIA

5G Scan 10.0 MAIA not used

Measurement Results

| | 5G Scan |
|---------------------------------|-------------------|
| Date | 2023-10-13, 09:28 |
| Avg. Area [cm²] | 4.00 |
| Avg. Type | Square Averaging |
| psPDn+ [W/m ²] | 58.3 |
| psPDtot+ [W/m ²] | 58.8 |
| psPDmod+ [W/m ²] | 59.1 |
| Max(Sn) [W/m ²] | 66.0 |
| Max(Stot) [W/m ²] | 66.2 |
| Max(Stot) [W/m ²] | 66.4 |
| E _{max} [V/m] | 157 |
| Power Drift [dB] | -0.00 |
| | |



Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

Element Morgan Hill, USA Certificate No.

EX-3746_Oct23

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3746

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

October 16, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 \pm 3) $^{\circ}$ C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|-----------------------|
| Power meter NRP2 | SN: 104778 | 30-Mar-23 (No. 217-03804/03805) | Mar-24 |
| Power sensor NRP-Z91 | SN: 103244 | 30-Mar-23 (No. 217-03804) | Mar-24 |
| OCP DAK-3.5 (weighted) | SN: 1249 | 20-Oct-22 (OCP-DAK3.5-1249_Oct22) | Oct-23 |
| OCP DAK-12 | SN: 1016 | 20-Oct-22 (OCP-DAK12-1016_Oct22) | Oct-23 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 30-Mar-23 (No. 217-03809) | Mar-24 |
| DAE4 | SN: 660 | 16-Mar-23 (No. DAE4-660_Mar23) | Mar-24 |
| Reference Probe ES3DV2 | SN: 3013 | 06-Jan-23 (No. ES3-3013_Jan23) | Jan-24 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|-------------------------|------------------|-----------------------------------|------------------------|
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-22) | In house check: Jun-24 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |

Name

Function

Signature

Calibrated by

Jeton Kastrati

Laboratory Technician <

Approved by

Sven Kühn

Technical Manager

Issued: October 16, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: EX-3746_Oct23

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C Service suisse d'étalonnage Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Glossary

TSL tissue simulating liquid

NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A, B, C, D modulation dependent linearization parameters

Polarization φ φ rotation around probe axis

Polarization ϑ ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is

normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices — Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis).
 No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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Parameters of Probe: EX3DV4 - SN:3746

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k = 2) |
|--------------------------|----------|----------|----------|-------------|
| Norm $(\mu V/(V/m)^2)$ A | 0.30 | 0.27 | 0.21 | ±10.1% |
| DCP (mV) ^B | 102.0 | 107.0 | 101.7 | ±4.7% |

Calibration Results for Modulation Response

| UID | Communication System Name | | Α | В | С | D | VR | Max | Max |
|-------|-----------------------------|---|-------|------------------|-------|-------|-------|-------|------------------|
| | - | | dB | $dB\sqrt{\mu V}$ | | dB | m۷ | dev. | Unc ^E |
| | | | | | | | | | k=2 |
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 182.8 | ±3.0% | ±4.7% |
| | | Y | 0.00 | 0.00 | 1.00 | | 174.5 | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 196.3 | | |
| 10352 | Pulse Waveform (200Hz, 10%) | Х | 3.12 | 67.99 | 10.98 | 10.00 | 60.0 | ±2.5% | ±9.6% |
| | | Y | 1.89 | 62.96 | 9.29 | | 60.0 | | |
| | | Z | 4.59 | 71.97 | 12.96 | | 60.0 | | |
| 10353 | Pulse Waveform (200Hz, 20%) | X | 2.31 | 68.20 | 10.11 | 6.99 | 80.0 | ±1.9% | ±9.6% |
| | | Y | 1.36 | 63.51 | 8.31 | | 80.0 | | |
| | | Z | 20.00 | 86.37 | 16.00 | | 80.0 | | |
| 10354 | Pulse Waveform (200Hz, 40%) | Х | 8.60 | 79.03 | 12.22 | 3.98 | 95.0 | ±1.3% | ±9.6% |
| | | Y | 0.49 | 60.42 | 5.51 | | 95.0 | ĺ | |
| | | Z | 20.00 | 86.22 | 14.35 | | 95.0 | | |
| 10355 | Pulse Waveform (200Hz, 60%) | Х | 20.00 | 82.42 | 11.64 | 2,22 | 120.0 | ±1.1% | ±9.6% |
| | | Y | 0.27 | 60.00 | 3.97 | ĺ | 120.0 | 1 | ĺ |
| | | Z | 1.02 | 67.56 | 7.65 | 1 | 120.0 | 1 | |
| 10387 | QPSK Waveform, 1 MHz | X | 1.59 | 68.42 | 15.34 | 1.00 | 150.0 | ±3.4% | ±9.6% |
| | | Y | 1.27 | 65.23 | 13.29 | 1 | 150.0 | | |
| | | Z | 1.46 | 65.64 | 14.14 | 1 | 150.0 | 1 | |
| 10388 | QPSK Waveform, 10 MHz | X | 2.06 | 68.28 | 15.89 | 0.00 | 150.0 | ±0.9% | ±9.6% |
| | | Y | 1.77 | 65.85 | 14.38 | 1 | 150.0 |] | |
| | | Z | 1.96 | 66.71 | 14.99 | 1 | 150.0 | 1 | |
| 10396 | 64-QAM Waveform, 100 kHz | X | 2.32 | 68.57 | 17.99 | 3.01 | 150.0 | ±1.2% | ±9.6% |
| | | Y | 2.34 | 68.61 | 17.83 | 1 | 150.0 | 1 | İ |
| | | Z | 2.02 | 65.71 | 16.69 | 1 | 150.0 | 1 | |
| 10399 | 64-QAM Waveform, 40 MHz | X | 3.39 | 67.30 | 15.86 | 0.00 | 150.0 | ±3.0% | ±9.6% |
| | | Y | 3.17 | 66.12 | 15.09 | 1 | 150.0 | 1 | |
| | | Z | 3.32 | 66.50 | 15.40 | 1 | 150.0 | 1 | |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz | X | 4.65 | 65.96 | 15.68 | 0.00 | 150.0 | ±4.9% | ±9.6% |
| | | Y | 4.45 | 65.20 | 15.17 | 7 | 150.0 | 1 | |
| | | Z | 4.64 | 65.33 | 15.34 | 1 | 150.0 | 1 | |

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

B Linearization parameter uncertainty for maximum specified field strength.

A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 and 6).

E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Parameters of Probe: EX3DV4 - SN:3746

Sensor Model Parameters

| | C1 fF | C2 fF | α V ⁻¹ | T1 ms V ⁻² | T2 msV ⁻¹ | T3 ms | T4 V ⁻² | T5 V ⁻¹ | Т6 |
|---|----------|----------|----------------------|--------------------------|-------------------------|----------|-----------------------|-----------------------|------|
| Х | 29.7 | 218.93 | 34.73 | 5.96 | 0.00 | 5.02 | 0.83 | 0.12 | 1.00 |
| У | 29.0 | 216.25 | 35.25 | 4.39 | 0.30 | 5.01 | 1.26 | 0.08 | 1.01 |
| Z | 36.1 | 271.07 | 35.76 | 3.98 | 0.06 | 5.04 | 0.00 | 0.22 | 1.01 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle | -112.1° |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

Parameters of Probe: EX3DV4 - SN:3746

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity ^F (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|----------------|
| 6 | 55.0 | 0.75 | 17.95 | 17.95 | 17.95 | 0.00 | 1.00 | ±13.3% |
| 13 | 55.0 | 0.75 | 16.19 | 16.19 | 16.19 | 0.00 | 1.00 | ±13.3% |
| 750 | 41.9 | 0.89 | 9.21 | 9.21 | 9.21 | 0.56 | 0.80 | ±12.0% |
| 835 | 41.5 | 0.90 | 8.88 | 8.88 | 8.88 | 0.52 | 0.80 | ±12.0% |
| 1750 | 40.1 | 1.37 | 8.30 | 8.30 | 8.30 | 0.43 | 0.86 | ±12.0% |
| 1900 | 40.0 | 1.40 | 7.77 | 7.77 | 7.77 | 0.31 | 0.86 | ±12.0% |
| 2300 | 39.5 | 1.67 | 7.31 | 7.31 | 7.31 | 0.34 | 0.90 | ±12.0% |
| 2450 | 39.2 | 1.80 | 7.08 | 7.08 | 7.08 | 0.30 | 0.90 | ±12.0% |
| 2600 | 39.0 | 1.96 | 6.78 | 6.78 | 6.78 | 0.39 | 0.90 | ±12.0% |
| 5250 | 35.9 | 4.71 | 5.12 | 5.12 | 5.12 | 0.40 | 1.80 | ±14.0% |
| 5600 | 35.5 | 5.07 | 4.45 | 4.45 | 4.45 | 0.40 | 1.80 | ±14.0% |
| 5750 | 35.4 | 5.22 | 4.59 | 4.59 | 4.59 | 0.40 | 1.80 | ±14.0% |
| 5850 | 35.2 | 5.32 | 4.50 | 4.50 | 4.50 | 0.40 | 1.80 | ±14.0% |

^C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%)

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Certificate No: EX-3746_Oct23

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 5\%$ from the target values (typically better than $\pm 3\%$) and are valid for TSL with deviations of up to $\pm 10\%$. If TSL with deviations from the target of less than $\pm 5\%$ are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

 $^{^{}G}$ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1\%$ for frequencies below 3 GHz and below $\pm 2\%$ for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

Parameters of Probe: EX3DV4 - SN:3746

Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity ^F (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc (k = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|----------------|
| 5250 | 48.9 | 5.36 | 4.28 | 4.28 | 4.28 | 0.50 | 1.90 | ±14.0% |
| 5600 | 48.5 | 5.77 | 3.78 | 3.78 | 3.78 | 0.50 | 1.90 | ±14.0% |
| 5750 | 48.3 | 5.94 | 3.90 | 3.90 | 3.90 | 0.50 | 1.90 | ±14.0% |
| 5850 | 48.1 | 6.06 | 3.74 | 3.74 | 3.74 | 0.50 | 1.90 | ±14.0% |

^C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

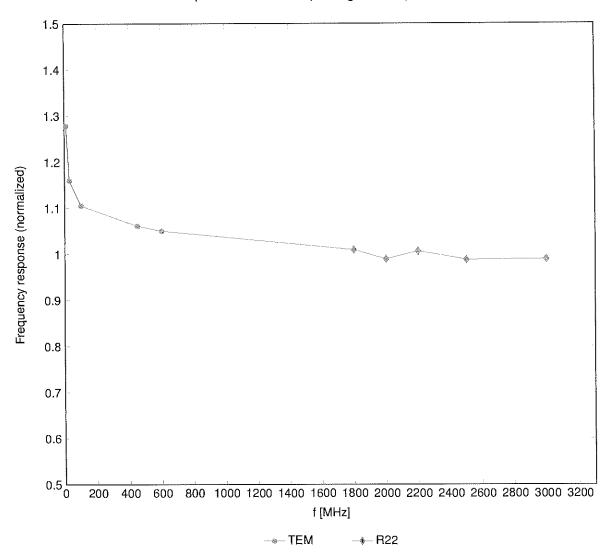
assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than \pm 5% from the target values (typically better than \pm 3%) and are valid for TSL with deviations of up to \pm 10%. If TSL with deviations from the target of less than \pm 5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

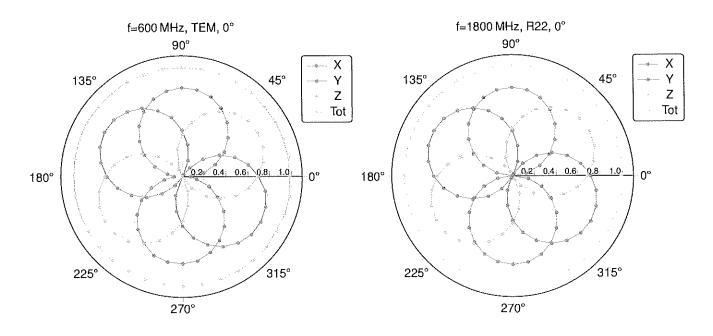
Frequency Response of E-Field

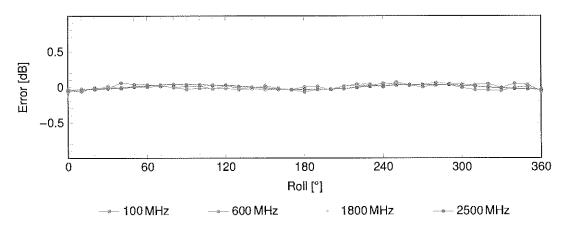
(TEM-Cell:ifi110 EXX, Waveguide:R22)



Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

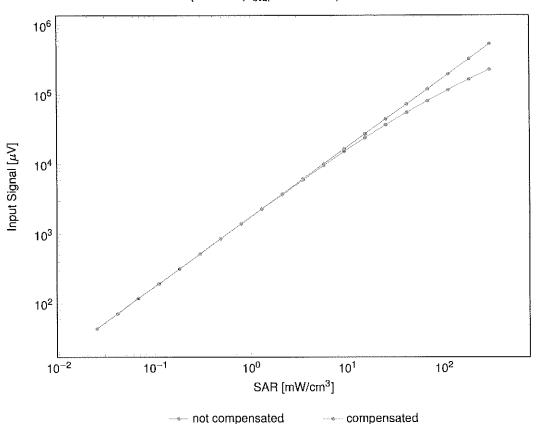


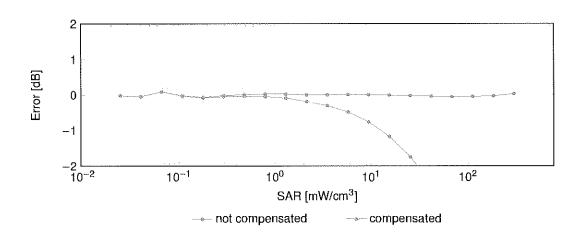


Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

Dynamic Range f(SAR_{head})

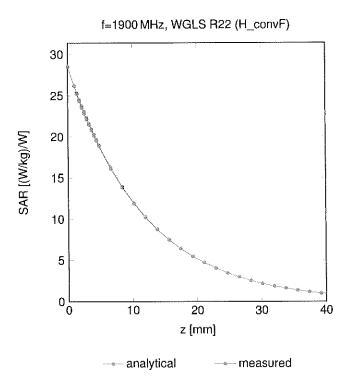
(TEM cell, $f_{eval} = 1900 \, MHz$)





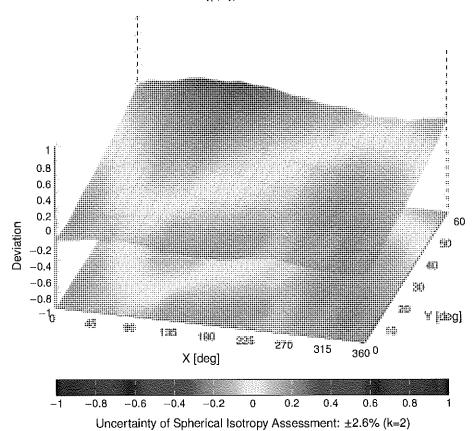
Uncertainty of Linearity Assessment: ±0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , θ), f = 900MHz



Appendix: Modulation Calibration Parameters

| ! UID F | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = 2 |
|-----------|-----|---|--------------|--------------|------------------------|
| 0 | | CW | CW | 0.00 | ±4.7 |
| 10010 | CAB | SAR Validation (Square, 100 ms, 10 ms) | Test | 10.00 | ±9.6 |
| 10011 | CAC | UMTS-FDD (WCDMA) | WCDMA | 2.91 | ±9.6 |
| 10012 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) | WLAN | 1.87 | ±9.6 |
| 10013 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | WLAN | 9.46 | ±9,6 |
| 10021 | DAC | GSM-FDD (TDMA, GMSK) | GSM | 9.39 | ±9.6 |
| | DAC | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | ±9.6 |
| | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.56 | ±9.6 |
| | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GSM | 12.62 | ±9.6 |
| | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | GSM | 9.55 | ±9.6 |
| | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 4.80 | ±9.6 ±9.6 |
| | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM GSM | 3.55 7.78 | ±9.6 |
| | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | Bluetooth | 5.30 | ±9.6 |
| L | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 1.87 | ±9.6 |
| | CAA | IEEE 802.15.1 Bluetooth (GFSK, DHS) | Bluetooth | 1.16 | ±9.6 |
| | CAA | IEEE 802,15.1 Bluetooth (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | ±9.6 |
| | CAA | IEEE 802,15.1 Bluetooth (Pl/4-DQPSK, DH3) | Bluetooth | 4,53 | ±9.6 |
| | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5) | Bluetooth | 3.83 | ±9.6 |
| 1 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1) | Bluetooth | 8.01 | ±9.6 |
| | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3) | Bluetooth | 4.77 | ±9.6 |
| | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | Bluetooth | 4.10 | ±9.6 |
| | CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4.57 | ±9.6 |
| | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS | 7.78 | ±9,6 |
| | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | ±9.6 |
| | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24) | DECT | 13.80 | ±9,6 |
| | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12) | DECT | 10.79 | ±9.6 |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps) | TD-SCDMA | 11.01 | ±9.6 |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3) | GSM | 6,52 | ±9.6 |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | ±9.6 |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2.83 | ±9.6 |
| 10061 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) | WLAN | 3.60 | ±9.6 |
| 10062 | CAD | IEEE 802,11a/h WiFi 5 GHz (OFDM, 6 Mbps) | WLAN | 8.68 | ±9.6 |
| 10063 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps) | WLAN | 8.63 | ±9.6 |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | ±9.6 |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps) | WLAN | 9.00 | ±9.6 |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ±9.6 |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | ±9.6 |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps) | WLAN | 10.24 | ±9.6 |
| | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps) | WLAN | 10,56 | ±9.6 |
| | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.83 | ±9.6 |
| | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | WLAN | 9,62 | ±9.6 |
| | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 9.94 | ±9.6 |
| | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN WLAN | 10.30 | ±9.6 ±9.6 |
| 1 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | ±9.6 |
| | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 46 Wipps) | WLAN | 11.00 | ±9.6 |
| | CAB | CDMA2000 (1xRTT, RC3) | CDMA2000 | 3.97 | ±9.6 |
| | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | AMPS | 4.77 | ±9.6 |
| 10092 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4) | GSM | 6,56 | ±9.6 |
| 10097 | CAC | UMTS-FDD (HSDPA) | WCDMA | 3.98 | ±9.6 |
| | CAC | UMTS-FDD (HSUPA, Subtest 2) | WCDMA | 3.98 | ±9.6 |
| | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | ±9.6 |
| 10100 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-FDD | 5.67 | ±9.6 |
| 10101 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ±9.6 |
| | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ±9.6 |
| | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK) | LTE-TDD | 9.29 | ±9.6 |
| 10104 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ±9.6 |
| 10105 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) | LTE-TDD | 10,01 | ±9.6 |
| 10108 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | 5.80 | ±9.6 |
| 10109 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ±9.6 |
| 10110 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-FDD | 5.75 | ±9.6 |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.44 | ±9.6 |

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| | | | Group | PAR (dB) | Unc ^E $k=2$ |
|----------------|-----|---|--------------------|--------------|------------------------|
| UID | Rev | Communication System Name | Group LTE-FDD | 6.59 | ±9,6 |
| 10112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 |
| 10113 | CAH | IEEE 802,11n (HT Greenfield, 13.5 Mbps, BPSK) | WLAN | 8.10 | ±9.6 |
| 10114 10115 | CAD | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) | WLAN | 8.46 | ±9.6 |
| 10116 | CAD | IEEE 802.11n (HT Greenfield, 31 Mbps, 10-QAM) | WLAN | 8.15 | ±9.6 |
| 10117 | CAD | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | ±9.6 |
| 10117 | CAD | IEEE 802.11n (HT Mixed, 10.0 Mbps, 16-QAM) | WLAN | 8,59 | ±9.6 |
| 10119 | CAD | IEEE 802.11n (HT Mixed, 01 Mbps, 10 40 MV) | WLAN | 8.13 | ±9.6 |
| 10140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10141 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-FDD | 6.53 | ±9.6 |
| 10142 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10143 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.35 | ±9.6 |
| 10144 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.65 | ±9.6 |
| 10145 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.76 | ±9.6 |
| 10146 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.41 | ±9.6 |
| 10147 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.72 | ±9.6 |
| 10149 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-FDD | 6.42 | ±9.6 |
| 10150 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-FDD | 6.60 | ±9.6 |
| 10151 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TDD | 9.28 | ±9.6 |
| 10152 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.92 | ±9.6 |
| 10153 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TDD | 10.05 | ±9.6 |
| 10154 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-FDD | 5.75 | ±9.6 |
| 10155 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-FDD | 6.43 | ±9.6 |
| 10156 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-FDD | 5.79 | ±9.6 |
| 10157 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10158 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 |
| 10159 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.56 | ±9.6 |
| 10160 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-FOD | 5.82 | ±9.6 |
| 10161 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM) | LTE-FDD | 6.43 | ±9.6 |
| 10162 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) | LTE-FDD | 6.58 | ±9.6 |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-FDD | 5.46 | ±9.6 |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.21 | ±9.6 |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.79 | ±9.6 |
| 10169 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) | LTE-FDD LTE-FDD | 5.73 6.52 | ±9.6 |
| 10170 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10171 | AAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 9.21 | ±9.6 |
| 10172 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 |
| 10173 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 10,25 | ±9.6 |
| 10174 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-FDD | 5.72 | ±9.6 |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10177 | CAJ | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10178 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10179 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10180 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-FDD | 5.72 | ±9.6 |
| 10182 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10183 | AAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10184 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10185 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-FDD | 6.51 | ±9.6 |
| 10186 | AAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FDD | 5.73 | ±9.6 |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10189 | AAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10193 | CAD | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) | WLAN | 8.09 | ±9.6 |
| 10194 | CAD | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | WLAN | 8.12 | ±9.6 |
| 10195 | CAD | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | WLAN | 8.21 | ±9.6 |
| 10196 | CAD | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) | WLAN | 8.10 | ±9.6 |
| 10197 | CAD | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) | WLAN | 8.13 | ±9.6 |
| 10198 | CAD | !EEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 8.27 | ±9.6 |
| 10219 | CAD | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | ±9.6 |
| 10220 | CAD | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) | WLAN | 8.13 | ±9.6 |
| 10221 | CAD | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) | WLAN | 8.27 | ±9.6 |
| 10222 | CAD | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) | WLAN | 8.06 | ±9.6 |
| 10223 | CAD | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | WLAN WLAN | 8.48 8.08 | ±9.6 ±9.6 |
| 10224 | CAD | | | | |

| LHD | Dov | Communication System Name | Group | PAR (dB) | $Unc^{E} k = 2$ |
|--------------|------------|--|----------|----------|-----------------|
| UID 10225 | Rev CAC | UMTS-FDD (HSPA+) | WCDMA | 5.97 | ±9.6 |
| 10223 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM) | LTE-TOD | 9.49 | ±9.6 |
| 10227 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.26 | ±9.6 |
| 10228 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-TDD | 9.22 | ±9.6 |
| 10229 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 |
| 10230 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 10231 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) | LTE-TDD | 9.19 | ±9.6 |
| 10232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) | LTE-TDD | 9,48 | ±9.6 |
| 10233 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 10234 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) | LTE-TDD | 9.21 | ±9.6 |
| 10235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 |
| 10236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 10237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK) | LTE-TDD | 9.21 | ±9.6 |
| 10238 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 |
| 10239 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 10240 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK) | LTE-TDD | 9.21 | ±9.6 |
| 10241 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | ±9.6 |
| 10242 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | ±9.6 |
| 10243 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.46 | ±9.6 |
| 10244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TDD | 10.06 | ±9.6 |
| 10245 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | ±9.6 |
| 10246 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDD | 9.30 | ±9.6 |
| 10247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.91 | ±9.6 |
| 10248 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.09 | ±9.6 |
| 10249 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK) | LTE-TOD | 9.29 | ±9.6 |
| 10250 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.81 | ±9.6 |
| 10251 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.17 | ±9.6 |
| 10252 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) | LTE-TDD | 9,24 | ±9.6 |
| 10253 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-TOD | 9,90 | ±9.6 |
| 10254 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) | LTE-TDD | 10.14 | ±9.6 |
| 10255 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) | LTE-TDD | 9.20 | ±9.6 |
| 10256 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM) | LTE-TDD | 9.96 | ±9.6 |
| 10257 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 10.08 | ±9.6 |
| 10258 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, QPSK) | LTE-TDD | 9.34 | ±9.6 |
| 10259 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) | LTE-TDD | 9.98 | ±9.6 |
| 10260 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) | LTE-TDD | 9.97 | ±9.6 |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) | LTE-TDD | 9.24 | ±9,6 |
| 10262 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) | LTE-TDD | 9.83 | ±9,6 |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) | LTE-TDD | 10.16 | ±9.6 |
| 10264 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-TDD | 9.23 | ±9.6 |
| 10265 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.92 | ±9.6 |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) | LTE-TDD | 10.07 | ±9.6 |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDD | 9,30 | ±9.6 |
| 10268 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-TDD | 10.06 | ±9.6 |
| 10269 | CAG | | LTE-TDD | 10.13 | ±9.6 |
| 10270 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-TDD | 9,58 | ±9.6 |
| 10274 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) | WCDMA | 4.87 | ±9.6 |
| 10275 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Ref8.4) | WCDMA | 3.96 | ±9.6 |
| 10277 | CAA | PHS (QPSK) | PHS | 11.81 | ±9.6 |
| 10278 | CAA | PHS (QPSK, BW 884 MHz, Rolloff 0.5) | PHS | 11.81 | ±9.6 |
| 10279 | CAA | PHS (QPSK, BW 884 MHz, Rolloff 0.38) | PHS | 12.18 | ±9.6 |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate | CDMA2000 | 3.91 | ±9.6 |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ±9.6 |
| 10292 | AAB | CDMA2000, RC3, SO32, Full Rate | CDMA2000 | 3,39 | ±9.6 |
| 10293 | AAB | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | ±9.6 |
| 10295 | AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr. | CDMA2000 | 12.49 | ±9.6 |
| 10297 | AAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5.81 | ±9.6 |
| 10298 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-FOD | 5.72 | ±9.6 |
| 10299 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-FDD | 6.39 | ±9.6 |
| 10300 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-FDD | 6.60 | ±9.6 |
| 10301 | AAA | IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) | WIMAX | 12.03 | ±9.6 |
| 10302 | AAA | IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) | WiMAX | 12.57 | ±9,6 |
| 10303 | AAA | IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) | WiMAX | 12.52 | ±9.6 |
| 10304 | AAA | IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) | WiMAX | 11.86 | ±9,6 |
| 10305 | AAA | IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) | WiMAX | 15.24 | ±9.6 |
| 10306 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols) | WiMAX | 14.67 | ±9.6 |

| alu | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = 2 |
|-------|-----|--|-----------|--------------|------------------------|
| 10307 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols) | WiMAX | 14.49 | ±9.6 |
| 10308 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC) | WiMAX | 14.46 | ±9.6 |
| 10309 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols) | WiMAX | 14.58 | ±9.6 |
| 10310 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols) | WiMAX | 14.57 | ±9.6 |
| 10311 | AAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) | LTE-FDD | 6.06 | ±9.6 |
| 10313 | AAA | IDEN 1:3 | IDEN | 10.51 | ±9.6 |
| 10314 | AAA | iDEN 1:6 | IDEN | 13.48 | ±9.6 |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle) | WLAN | 1.71 | ±9.6 |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10317 | AAD | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10352 | AAA | Pulse Waveform (200Hz, 10%) | Generic | 10.00 | ±9.6 |
| 10353 | AAA | Pulse Waveform (200Hz, 20%) | Generic | 6.99 | ±9.6 |
| 10354 | AAA | Pulse Waveform (200Hz, 40%) | Generic | 3.98 | ±9.6 |
| 10355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 2.22 | ±9.6 |
| 10356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 0.97 | ±9.6 |
| 10387 | AAA | QPSK Waveform, 1 MHz | Generic | 5.10 | ±9.6 |
| 10388 | AAA | QPSK Waveform, 10 MHz | Generic | 5.22 | ±9.6 |
| 10396 | AAA | 64-QAM Waveform, 100 kHz | Generic | 6.27 | ±9.6 |
| 10399 | AAA | 64-QAM Waveform, 40 MHz | Generic | 6.27 | ±9.6 |
| 10400 | AAE | IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.37 | ±9.6 |
| 10401 | AAE | IEEE 802.11ac WIFi (40 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 10402 | AAE | IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.53 | ±9.6 |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 3.76 | ±9.6 |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | ±9.6 |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate | CDMA2000 | 5.22 | ±9.6 |
| 10410 | AAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | LTE-TOD | 7.82 | ±9.6 |
| 10414 | AAA | WLAN CCDF, 64-QAM, 40 MHz | Generic | 8.54 | ±9.6 |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | WLAN | 1.54 | ±9.6 |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | ±9.6 |
| 10417 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | ±9.6 |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) | WLAN | 8.14 | ±9.6 |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule) | WLAN | 8.19 | ±9.6 |
| 10422 | AAC | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | ±9.6 |
| 10423 | AAC | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | ±9.6 |
| 10424 | AAC | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | ±9.6 |
| 10425 | AAC | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN | 8.41 | ±9.6 |
| 10426 | AAC | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN WLAN | 8.45 8.41 | ±9.6 ±9.6 |
| 10427 | AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | ±9.6 |
| 10430 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8,38 | ±9.6 |
| 10431 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) | LTE-FDD | 8.34 | ±9.6 |
| 10432 | AAD | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) | LTE-FDD | 8,34 | ±9.6 |
| 10433 | AAB | W-CDMA (BS Test Model 1, 64 DPCH) | WCDMA | 8.60 | ±9.6 |
| 10435 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9.6 |
| 10447 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 | ±9.6 |
| 10448 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%) | LTE-FDD | 7,53 | ±9.6 |
| 10449 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) | LTE-FDD | 7.51 | ±9.6 |
| 10450 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.48 | ±9.6 |
| 10451 | AAB | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ±9.6 |
| 10453 | AAE | Validation (Square, 10 ms, 1 ms) | Test | 10.00 | ±9.6 |
| 10456 | AAC | IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.63 | ±9.6 |
| 10457 | AAB | UMTS-FDD (DC-HSDPA) | WCDMA | 6.62 | ±9.6 |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers) | CDMA2000 | 6.55 | ±9.6 |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers) | CDMA2000 | 8.25 | ±9.6 |
| 10460 | AAB | UMTS-FDD (WCDMA, AMR) | WCDMA | 2.39 | ±9.6 |
| 10461 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9.6 |
| 10462 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.30 | ±9.6 |
| 10463 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.56 | ±9.6 |
| 10464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9.6 |
| 10465 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | ±9.6 |
| 10466 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.57 | ±9.6 |
| 10467 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9.6 |
| 10468 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | ±9.6 |
| 10469 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.56 | ±9.6 |
| 10470 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9.6 |
| | | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | ±9.6 |

| 16472 AAC 167-700 | UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = 2 |
|--|----------|--------------|--|-------------|-------------|--|
| 10477 AMF UR-TDD (SC-PDMA, URB, 15MHz, GPSK, UL Subramor-2,3-4,7-8) UR-TDD 8.522 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, URB, 15MHz, 16-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.522 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 189, 15MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.522 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 189, 15MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.522 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 189, 25MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.522 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 189, 25MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.524 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 189, 25MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.545 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 90-NR 81, 44MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.545 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 90-NR 81, 44MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.545 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 90-NR 81, 44MHz, 96-00M, UL Subramor-2,3-4,7-8) UR-TDD 8.546 (19.6 http://dx.doi.org/10.10078) AMF UR-TDD (SC-PDMA, 90-NR 81, 44MHz, 90-NR 91, 44 | | | | | | ±9.6 |
| 10474 AF ITETDS (SEPENAL RIB. 15MHz, 16-OAM, U. Subinane-2,4,4,7,8) | | | | LTE-TDD | 7.82 | ±9.6 |
| 16477 ANG. VENTOD (SC-POMA), I RB, 20MHz, 16-QAM, U.S. Suframe-2,3,47,89 VENTOD 5.32 19.8 10479 ANC. VENTOD (SC-POMA), 1 RB, 20MHz, 26-QAM), U.S. Suframe-2,3,47,89 VENTOD 5.74 19.8 10479 ANC. VENTOD (SC-POMA), 50W, RB, 1,4MHz, QPSK, U.S. Suframe-2,3,47,89 VENTOD 5.74 19.8 10481 ANC. VENTOD (SC-POMA), 50W, RB, 1,4MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 5.74 19.8 10481 ANC. VENTOD (SC-POMA), 50W, RB, 1,4MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.74 19.6 10482 AND. VENTOD (SC-POMA), 50W, RB, 1,4MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.71 19.6 10483 AND. VENTOD (SC-POMA), 50W, RB, 1,4MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.71 19.6 10482 AND. VENTOD (SC-POMA), 50W, RB, 1,4MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.71 19.6 10484 AND. VENTOD (SC-POMA), 50W, RB, 1,4MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.79 19.6 10487 ANC. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.79 19.6 10487 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.79 19.6 10487 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.79 19.6 10487 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.79 19.6 10487 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.79 19.6 10488 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.79 19.6 10488 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.74 19.6 10488 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.74 19.6 10488 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.74 19.6 10488 ANG. VENTOD (SC-POMA), 50W, RB, 1,5MHz, 10-QAM, U.S. Suframe-2,3,47,89 VENTOD 7.74 19.6 10488 ANG. VENTOD (SC-POMA), 50W, R | 10474 | AAF | | LTE-TDD | 8.32 | ±9.6 |
| 16478 AAC TETOD (SC-FDMA, 1 NB, 2004K), US Subfarme-2,34,7,8,9 | 10475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.57 | ±9.6 |
| 16478 ACC TE-TOD (SC-FDMA, 50% RB, 1 AMPL, OFSK, U.) Subframe-23.4.7.8.9 TE-TOD 7.74 9.8.6 | 10477 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.32 | ±9.6 |
| 1467 ACC ITETID (SC-FPM, SW); Rif. (AMPL. 16-OAM, UL Subframe-2,34.7.8.9) ITETID 8.18 9.9.8 14682 AAD ITETID (SC-FPM, SW); Rif. (AMPL. 6-OAM, UL Subframe-2,34.7.8.9) ITETID 8.18 9.9.8 14682 AAD ITETID (SC-FPM, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 7.77 9.9.8 14683 AAD ITETID (SC-FPM, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.47 9.9.8 14684 AAD ITETID (SC-FPM, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.47 9.9.8 14685 AAD ITETID (SC-FPM, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.48 14685 AAD ITETID (SC-FPM, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.48 14686 AAD ITETID (SC-FPM, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.38 9.9.8 14686 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.38 9.9.8 14687 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.38 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.38 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.38 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.40 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.40 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.40 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.40 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.40 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Subframe-2,34.7.8.9) ITETID 8.40 9.9.8 14689 AAD ITETID (SC-FPMA, SW); Rif. (SMH); CPSK, UL Su | 10478 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.57 | ±9.6 |
| 1948 AAC TETTO GS-FDMA, 50% RB, 13MHz, 64-OAM, U. Subframe-2.34,7.8.9 TETTO 8.45 19.65 | 10479 | A A C | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | ±9.6 |
| 10483 AAD LTE-TDD (SC-FDMA, 50% R), 3 MHz, 0-PSK (U.Subframe-2,3.4.7.8.9) | 10480 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.18 | ±9.6 |
| 1968 AAD LTE-TIDD (SC-PEIMA, 59% Rg. 3MHz, 16-CAM, LU Subframe-2,3.4,7.8.9) LTE-TIDD (SC-PEIMA, 59% Rg. 5MHz, 6-CAM, LU Subframe-2,3.4,7.8.9) LTE-TIDD (SC-PEIMA, 59% Rg. 16,100 MHz, 16,100 MHz | 10481 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.45 | ±9.6 |
| 1,757.00 (26.7-PDMA, 50% RB, 3MHz, 64-CAM, U. Subtrame-2,3.4.7.8.9) | 10482 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.71 | ±9.6 |
| 1948 AAC LTF-TDD (SC-PDMA, 59% RB, 5MHz, 10-PAM, LII Subframe-2.3.4.7.8.9) | 10483 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.39 | ±9.6 |
| 19486 AAC LTF-TDD (SC-FDMA, 50% RB, 5MMz, 16-QAM, UL Subframe-2,3,4,7,8,9) LTF-TDD 8,98 9,96 9,48 19487 AAC LTF-TDD (SC-FDMA, 50% RB, 5MMz, 6+QAM, UL Subframe-2,3,4,7,8,9) LTF-TDD 7,70 19,8 1 | 10484 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.47 | ±9.6 |
| 1946 AAC | 10485 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.59 | ±9.6 |
| 10498 AAC LTF-TDD (SC-FDMA, 50%, RB, 10MHz, 0PSK, UL Subframe-2,3.4.7.8.9) LTF-TDD 1.70 1.98 1.0410 AAC LTF-TDD (SC-FDMA, 50%, RB, 10MHz, 18-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.51 1.98 1.0411 AAC LTF-TDD (SC-FDMA, 50%, RB, 15MHz, 0PSK, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.54 1.9.6 1.0411 AAC LTF-TDD (SC-FDMA, 50%, RB, 15MHz, 0PSK, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.54 1.9.6 1.0411 AAC LTF-TDD (SC-FDMA, 50%, RB, 15MHz, 0PSK, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.41 1.9.6 1.0412 AAC LTF-TDD (SC-FDMA, 50%, RB, 15MHz, 0PSK, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.55 1.9.6 1.0493 AAC LTF-TDD (SC-FDMA, 50%, RB, 15MHz, 0PSK, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.55 1.9.6 1.0494 AAC LTF-TDD (SC-FDMA, 50%, RB, 20MHz, 19-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.57 1.9.6 1.0495 AAC LTF-TDD (SC-FDMA, 50%, RB, 20MHz, 19-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.57 1.9.6 1.0496 AAC LTF-TDD (SC-FDMA, 50%, RB, 20MHz, 19-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.57 1.9.6 1.0498 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.4MHz, 0PSK, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.57 1.9.6 1.0498 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.4MHz, 1.6-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 7.67 1.9.6 1.0498 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.4MHz, 1.6-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.64 1.9.6 1.0498 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.4MHz, 1.6-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.64 1.9.6 1.0498 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.4MHz, 1.6-CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.64 1.9.6 1.0498 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.5MHz, 1.6 CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.64 1.9.6 1.0598 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.5MHz, 1.6 CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.64 1.9.6 1.0598 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.5MHz, 1.6 CAM, UL Subframe-2,3.4.7.8.9) LTF-TDD 8.64 1.9.6 1.0598 AAC LTF-TDD (SC-FDMA, 100%, RB, 1.5MHz, 1.6 CAM, UL Subframe-2,3.4. | 10486 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.38 | ±9.6 |
| 1948 AAC LTE-TDD (SC-FDMA, 509; RB, 10MHz, 16-CAM, UL Subframe-2.3.4.7.8.9) LTE-TDD S. 54 9.8 | 10487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.60 | ±9,6 |
| 1946 AAG LTE-TDD (SC-FDMA, 59% RB, 15MHz, GPSK, UE. Subframe-23,4.7.8.9) LTE-TDD 8.54 19.6 19 | 10488 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 7.70 | ±9.6 |
| 10491 AAF | 10489 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.31 | ±9.6 |
| 10483 AAF LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.41 49.6 10494 AAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 7.74 9.6 10495 AAG LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.57 9.6 10495 AAG LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.54 9.6 10497 AAC LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.54 9.6 10497 AAC LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.60 9.6 10498 AAC LTE-TDD (SC-FDMA, 100% RB, 14-MHz, 07SK, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.40 9.9 10499 AAC LTE-TDD (SC-FDMA, 100% RB, 14-MHz, 16-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.40 9.9 10499 AAC LTE-TDD (SC-FDMA, 100% RB, 3MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.40 9.9 10500 AAD LTE-TDD (SC-FDMA, 100% RB, 3MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 7.67 9.6 10501 AAD LTE-TDD (SC-FDMA, 100% RB, 3MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 7.67 9.9 10502 AAD LTE-TDD (SC-FDMA, 100% RB, 3MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.44 9.6 10502 AAD LTE-TDD (SC-FDMA, 100% RB, 5MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.44 9.6 10503 AAG LTE-TDD (SC-FDMA, 100% RB, 5MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.54 9.9 10504 AAG LTE-TDD (SC-FDMA, 100% RB, 5MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.54 9.9 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 5MHz, 08-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.54 9.9 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 0-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.54 9.9 10509 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 0-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.54 9.9 10509 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 0-OAM, UL Subframe-2,3,4.7,8.9) LTE-TDD 8.55 9.9 10509 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz | 10490 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | | 8.54 | ±9.6 |
| 10494 AAG | 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | ±9.6 |
| 10495 AAG | 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | | ±9.6 |
| 10496 AAG | 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.55 | ±9.6 |
| 10497 AAC | 10494 | AAG | | | | <u> </u> |
| 10498 AAC LTE-TDD (SC-FDMA, 100% RB, 1 AMHz, 0PSK, UL Subtrame-2,3,4,7,8,9) LTE-TDD 7.67 4.9.6 10498 AAC LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.40 4.9.6 10499 AAC LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 0-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.68 4.9.6 10500 AAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 7.67 4.9.6 10500 AAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.44 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.52 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 2 RC-SM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.52 4.9.6 10504 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 2 RC-SM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.31 4.9.6 10504 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 2 RC-SM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.31 4.9.6 10505 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 2 RC-SM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.34 4.9.6 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.54 4.9.6 10507 AAG LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.54 4.9.6 10509 AAG LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.36 4.9.6 10509 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-OAM, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.36 4.9.6 10509 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0-PSK, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.36 4.9.6 10511 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0-PSK, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.55 4.9.6 10511 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0-PSK, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.51 4.9.6 10512 AAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0-PSK, UL Subtrame-2,3,4,7,8,9) LTE-TDD 8.51 4.9.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0-PSK, UL Subtrame-2,3,4,7,8,9) LTE-TDD | 10495 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | | | ±9.6 |
| 10498 AAC LTE-TDD (SC-FDMA, 109% RB, 1.4 MHz, 94-OAM, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.40 4.9.6 10499 AAC LTE-TDD (SC-FDMA, 109% RB, 1.4 MHz, 94-OAM, UL Subframe-2,3.4,7,8.9) LTE-TDD 7.67 4.9.6 10501 AAD LTE-TDD (SC-FDMA, 109% RB, 3 MHz, QPSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 7.67 4.9.6 10501 AAD LTE-TDD (SC-FDMA, 109% RB, 3 MHz, 4.6-OAM, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.44 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 109% RB, 3 MHz, 4.6-OAM, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.44 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 109% RB, 5 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 7.72 4.9.6 10503 AAG LTE-TDD (SC-FDMA, 109% RB, 5 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 7.72 4.9.6 10504 AAG LTE-TDD (SC-FDMA, 109% RB, 5 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.51 4.9.6 10505 AAG LTE-TDD (SC-FDMA, 109% RB, 5 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.54 4.9.8 10506 AAG LTE-TDD (SC-FDMA, 109% RB, 5 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.54 4.9.8 10509 AAG LTE-TDD (SC-FDMA, 109% RB, 10 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 7.74 4.9.6 10507 AAG LTE-TDD (SC-FDMA, 109% RB, 10 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 7.74 4.9.6 10509 AAG LTE-TDD (SC-FDMA, 109% RB, 10 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.56 4.9.6 10509 AAG LTE-TDD (SC-FDMA, 109% RB, 15 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.56 4.9.6 10510 AAF LTE-TDD (SC-FDMA, 109% RB, 15 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.56 4.9.6 10511 AAF LTE-TDD (SC-FDMA, 109% RB, 15 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.49 4.9.6 10511 AAF LTE-TDD (SC-FDMA, 109% RB, 20 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.49 4.9.6 10512 AAG LTE-TDD (SC-FDMA, 109% RB, 20 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.49 4.9.6 10512 AAG LTE-TDD (SC-FDMA, 109% RB, 20 MHz, QFSK, UL Subframe-2,3.4,7,8.9) LTE-TDD 8.49 4.9.6 10512 | 10496 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | ±9.6 |
| 10499 AAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 6.88 4.9.6 10500 AAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 6PSK, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 6.84 4.9.6 10501 AAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 6PSK, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 6.84 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 6P-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.72 4.9.6 10503 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 2 RS-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.72 4.9.6 10504 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 2 RS-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 5.1 4.9.6 10505 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 5.1 4.9.6 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 5.4 4.9.6 10507 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.74 4.9.6 10508 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.99 4.9.6 10509 AAF LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.99 4.9.6 10500 AAF LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.99 4.9.6 10510 AAF LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.99 4.9.6 10511 AAF LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.99 4.9.6 10512 AAG LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.99 4.9.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.99 4.9.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.91 4.9.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-QAM, UL Subframe=2,3.4,7,8,9) LTE-TDD R. 7.91 4.9.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 6 | 10497 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | | 7.67 | ±9.6 |
| 10500 AAD LTE-TDD (SC-FDMA, 100% RB, 3MHz, GPSK, UL Subframe-2,3,4,7,8,9) LTE-TDD 7.67 4.9.6 | 10498 | AAC | | | | ±9,6 |
| 10501 AAD LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8,44 4.9.6 10502 AAD LTE-TDD (SC-FDMA, 100% RB, 5MHz, 04-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.52 49.6 10503 AAG LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.72 49.6 10504 AAG LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.31 49.6 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.54 49.6 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.54 49.6 10507 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74 49.6 10509 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 40-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.36 49.6 10509 AAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 40-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.55 49.6 10509 AAF LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.99 49.6 10510 AAF LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.99 49.6 10511 AAF LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.49 49.6 10511 AAF LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.49 49.6 10512 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.41 49.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 49.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 49.6 10514 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 49.6 10514 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, 1004 ABC ABC LTE-TDD 8.45 49.6 10514 AAG LTE-TDD (SC-FDMA, 100% RB, 20MHz, | 10499 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | | |
| 10502 | 10500 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | | | <u>; </u> |
| 10503 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.72 ±9.6 10504 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.31 ±9.6 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74 ±9.6 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74 ±9.6 10506 AAG LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74 ±9.6 10508 AAG LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.36 ±9.6 10509 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.99 ±9.6 10510 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.99 ±9.6 10511 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.99 ±9.6 10511 AAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.51 ±9.6 10512 AAG LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.51 ±9.6 10513 AAG LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74 ±9.6 10514 AAG LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74 ±9.6 10515 AAA LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 ±9.6 10515 AAA LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 ±9.6 10516 AAA LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 ±9.6 10516 AAA LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 ±9.6 10516 AAA LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 ±9.6 10516 AAA LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.45 ±9.6 | 10501 | | | | | 1 |
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| 10515 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle) WLAN 1.58 ±9.6 10516 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) WLAN 1.57 ±9.6 10517 AAA IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle) WLAN 1.58 ±9.6 10518 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle) WLAN 8.23 ±9.6 10519 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) WLAN 8.39 ±9.6 10520 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) WLAN 8.12 ±9.6 10521 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 ±9.6 10522 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 7.97 ±9.6 10522 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ±9.6 10523 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.45 ±9.6 10524 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.08 ±9.6 10525 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ±9.6 10526 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.36 ±9.6 10526 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.36 ±9.6 10526 AAC IEEE 802.11a/h WiFi (20 MHz, MCS1, 99pc duty cycle) WLAN 8.36 ±9.6 10527 AAC IEEE 802.11a/h WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11a/h WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11a/h WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10533 AAC IEEE 802.11a/h WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.43 ±9.6 10533 AAC IEEE 802.11a/h WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.45 ±9.6 10534 AAC IEEE 802.11a/h WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11a/h WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8. | | ļ | | | _ | |
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| 10520 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle) WLAN 8.12 | | | | | | |
| 10521 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle) WLAN 7.97 ±9.6 10522 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ±9.6 10523 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ±9.6 10524 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ±9.6 10525 AAC IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle) WLAN 8.36 ±9.6 10526 AAC IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) WLAN 8.42 ±9.6 10527 AAC IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.29 ±9.6 10534 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.54 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8. | | | | | | |
| 10522 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle) WLAN 8.45 ±9.6 10523 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ±9.6 10524 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ±9.6 10525 AAC IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle) WLAN 8.36 ±9.6 10526 AAC IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) WLAN 8.42 ±9.6 10527 AAC IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.45 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.45 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.45 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.45 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz | | | | | | |
| 10523 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) WLAN 8.08 ±9.6 10524 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ±9.6 10525 AAC IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle) WLAN 8.36 ±9.6 10526 AAC IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) WLAN 8.42 ±9.6 10527 AAC IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC | | | | | | |
| 10524 AAC IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) WLAN 8.27 ±9.6 10525 AAC IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle) WLAN 8.36 ±9.6 10526 AAC IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) WLAN 8.42 ±9.6 10527 AAC IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC I | 1 | | | | | |
| 10525 AAC IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle) WLAN 8.36 ±9.6 10526 AAC IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) WLAN 8.42 ±9.6 10527 AAC IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802. | | | | | | |
| 10526 AAC IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle) WLAN 8.42 ±9.6 10527 AAC IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802. | | <u> </u> | | | | |
| 10527 AAC IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle) WLAN 8.21 ±9.6 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802. | | | | | | |
| 10528 AAC IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle) WLAN 8.36 ±9.6 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | | | | | |
| 10529 AAC IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle) WLAN 8.36 ±9.6 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | 1 | | | | | |
| 10531 AAC IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle) WLAN 8.43 ±9.6 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | <u> </u> | | | | |
| 10532 AAC IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle) WLAN 8.29 ±9.6 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | | | | | |
| 10533 AAC IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle) WLAN 8.38 ±9.6 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | | | | | |
| 10534 AAC IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle) WLAN 8.45 ±9.6 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | | | | | |
| 10535 AAC IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle) WLAN 8.45 ±9.6 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | <u> </u> | | | | | |
| 10536 AAC IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle) WLAN 8.32 ±9.6 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | | | | | |
| 10537 AAC IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle) WLAN 8.44 ±9.6 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | - | | | | |
| 10538 AAC IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle) WLAN 8.54 ±9.6 | | | | | | |
| | | | | | | |
| | 10540 | | | | | |

| QIU | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = 2 |
|-------|-----|--|-----------|----------|------------------------|
| 10541 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle) | WLAN | 8.46 | ±9.6 |
| 10542 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 10542 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 10544 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle) | WLAN | 8,47 | ±9.6 |
| 10545 | AAC | IEEE 802,11ac WiFi (80 MHz, MCS1, 99pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 10546 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle) | WLAN | 8.35 | ±9.6 |
| 10547 | AAC | IEEE 802,11ac WiFi (80 MHz, MCS3, 99pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10548 | AAC | IEEE 802,11ac WiFi (80 MHz, MCS4, 99pc duty cycle) | WLAN | 8.37 | ±9.6 |
| 10550 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle) | WLAN | 8.38 | ±9.6 |
| 10551 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 10552 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle) | WLAN | 8,42 | ±9.6 |
| 10553 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8,45 | ±9.6 |
| 10554 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 10555 | AAD | IEEE 802,11ac WiFi (160 MHz, MCS1, 99pc duty cycle) | WLAN | 8.47 | ±9.6 |
| 10556 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 10557 | AAD | IEEE 802,11ac WiFi (160 MHz, MCS3, 99pc duty cycle) | WLAN | 8.52 | ±9.6 |
| 10558 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle) | WLAN | 8.61 | ±9.6 |
| 10560 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle) | WLAN | 8,73 | ±9.6 |
| 10561 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle) | WLAN | 8.56 | ±9.6 |
| 10562 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 10563 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | WLAN | 8.13 | ±9.6 |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | WLAN | 8.00 | ±9.6 |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | WLAN | 8,37 | ±9.6 |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8,10 | ±9,6 |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.30 | ±9.6 |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | WLAN | 1.99 | ±9.6 |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) | WLAN | 1.99 | ±9.6 |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) | WLAN | 1.98 | ±9.6 |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) | WLAN | 1.98 | ±9.6 |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8,59 | ±9.6 |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8,70 | ±9.6 |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10579 | AAA | IEEE 802,11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10581 | AAA | IEEE 802,11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | ±9.6 |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10583 | AAC | IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) | WLAN | 8.59 | ±9.6 |
| 10584 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 10585 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8,70 | ±9.6 |
| 10586 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10587 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10588 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10589 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle) | WLAN | 8.35 | ±9.6 |
| 10590 | AAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10591 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle) | WLAN | 8.63 | ±9.6 |
| 10592 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | ±9.6 |
| 10593 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 10594 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10595 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10596 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.71 | ±9.6 |
| 10597 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 10598 | AAC | IEEE 802,11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 10599 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.79 | ±9.6 |
| 10600 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | ±9.6 |
| 10601 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10602 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 10603 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle) | WLAN | 9.03 | ±9.6 |
| 10604 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10605 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.97 | ±9.6 |
| 10606 | AAC | iEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| | | | | 0.04 | |
| 10607 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle) IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle) | WLAN WLAN | 8.64 | ±9.6 ±9.6 |

| QIU | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = 2 |
|----------------|-----|--|-----------|----------|------------------------|
| 10609 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 10610 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 10611 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10612 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 10613 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 10614 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.59 | ±9.6 |
| 10615 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10616 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10617 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 10618 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 10619 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| 10620 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle) | WLAN | 8.87 | ±9.6 |
| 10621 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 10622 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.68 | ±9.6 |
| 10623 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10624 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.96 | ±9.6 |
| 10625 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) | WLAN | 8,96 | ±9,6 |
| 10626 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 10627 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | ±9.6 |
| 10628 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.71 | ±9.6 |
| 10629 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | ±9.6 |
| 10630 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 10631 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 10632 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10633 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 10634 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle) | WLAN | 8.80 | ±9.6 |
| 10635 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 10636 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 10637 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle) | WLAN | 8.79 | ±9.6 |
| 10638 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| 10639 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | ±9.6 |
| 10640 10641 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle) | WLAN | 8,98 | ±9,6 |
| 10641 | AAD | IEEE 802.11ac WiFi (160 MHz, MCSS, 90pc duty cycle) | WLAN WLAN | 9.06 | ±9.6 |
| 10643 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle) | WLAN | 8.89 | ±9.6 ±9.6 |
| 10644 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle) | WLAN | 9.05 | ±9.6 |
| 10645 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle) | WLAN | 9.11 | ±9.6 |
| 10646 | AAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7) | LTE-TDD | 11.96 | ±9.6 |
| 10647 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | LTE-TDD | 11.96 | ±9,6 |
| 10648 | AAA | CDMA2000 (1x Advanced) | CDMA2000 | 3,45 | ±9.6 |
| 10652 | AAF | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) | LTE-TOD | 6.91 | ±9.6 |
| 10653 | AAF | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ±9.6 |
| 10654 | AAE | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | ±9.6 |
| 10655 | AAF | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.21 | ±9.6 |
| 10658 | AAB | Pulse Waveform (200Hz, 10%) | Test | 10.00 | ±9.6 |
| 10659 | AAB | Pulse Waveform (200Hz, 20%) | Test | 6.99 | ±9.6 |
| 10660 | AAB | Pulse Waveform (200Hz, 40%) | Test | 3.98 | ±9.6 |
| 10661 | AAB | Pulse Waveform (200Hz, 60%) | Test | 2.22 | ±9.6 |
| 10662 | AAB | Pulse Waveform (200Hz, 80%) | Test | 0.97 | ±9.6 |
| 10670 | AAA | Bluetooth Low Energy | Bluetooth | 2.19 | ±9.6 |
| 10671 | AAC | IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle) | WLAN | 9.09 | ±9.6 |
| 10672 | AAC | IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 10673 | AAC | IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 10674 | AAC | IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10675 | AAC | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| 10676 | AAC | IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 10677 | AAC | IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle) | WLAN | 8,73 | ±9.6 |
| 10678 | AAC | IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 10679 | AAC | IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| 10680 | AAC | IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle) | WLAN | 8.80 | ±9.6 |
| 10681 | AAC | IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle) | WLAN | 8.62 | ±9.6 |
| 10682 | AAC | IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle) | WLAN | 8.83 | ±9.6 |
| 10683 | AAC | IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle) | WLAN | 8,42 | ±9.6 |
| 10684 | AAC | IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle) | WLAN | 8.26 | ±9.6 |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle) | WLAN | 8,33 | ±9.6 |
| 10686 | AAC | IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle) | WLAN | 8.28 | ±9.6 |

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = 2 |
|----------------|------------|---|-----------|--------------|------------------------|
| 10687 | AAC | IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10688 | AAC | IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10689 | AAC | IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 10690 | AAC | IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle) | WLAN | 8,29 | ±9.6 |
| 10691 | AAC | IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10692 | AAC | IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10693 | AAC | IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10694 | AAC | IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle) | WLAN | 8.57 | ±9.6 |
| 10695 | AAC | IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 10696 | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.91 | ±9,6 |
| 10697 | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8,61 | ±9.6 |
| 10698 | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle) | WLAN | 8,89 | ±9.6 |
| 10699 | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle) | WLAN | 8,82 | ±9.6 |
| 10700 | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.73 | ±9.6 |
| 10701 | AAC | IEEE 802,11ax (40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.86 | ±9.6 |
| 10702 | AAC | IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10703 | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10704 | AAC | IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle) | WLAN | 8,56 | ±9.6 |
| 10705 | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 10706 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN | 8.66 | ±9.6 |
| 10707 | AAC | IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle) | WLAN | 8.32 | ±9.6 |
| 10708 | AAC | IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 10709 | AAC | IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle) | WLAN | 8.33 | ±9.6 |
| 10710 | AAC | IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10711 | AAC | IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |
| 10712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10713 | AAC | IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle) | WLAN | 8.33 | ±9.6 |
| 10714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle) | WLAN | 8.26 | ±9.6 |
| 10715 | AAC | IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle) | WLAN | 8.30 | ±9.6 |
| 10717 | AAC | IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 10718 | AAC | IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle) | WLAN WLAN | 8.24 8,81 | ±9.6 ±9.6 |
| 10719 10720 | AAC AAC | IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle) | WLAN | 8.87 | ±9.6 |
| 10720 | AAC | IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 10721 | AAC | IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 10722 | AAC | IEEE 802,11ax (80 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10723 | AAC | IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| 10725 | AAC | IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 10726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 10727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle) | WLAN | 8.66 | ±9.6 |
| 10728 | AAC | IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.65 | ±9.6 |
| 10729 | AAC | IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 10730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 10731 | AAC | IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 10732 | AAC | IEEE 802,11ax (80 MHz, MCS1, 99pc duty cycle) | WLAN | 8.46 | ±9.6 |
| 10733 | AAC | IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle) | WLAN | 8.40 | ±9.6 |
| 10734 | AAC | IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle) | WLAN | 8.25 | ±9.6 |
| 10735 | AAC | IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle) | WLAN | 8.33 | ±9.6 |
| 10736 | AAC | IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle) | WLAN | 8.27 | ±9.6 |
| 10737 | AAC | IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10738 | AAC | IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 10739 | AAC | IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10740 | AAC | IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 10741 | AAC | IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) | WLAN | 8.40 | ±9.6 |
| 10742 | AAC | IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) | WLAN | 8.43 | ±9.6 |
| 10743 | AAC | IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 10744 | AAC | IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) | WLAN | 9.16 | ±9.6 |
| 10745 | AAC | IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.93 | ±9.6 |
| 10746 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) | WLAN | 9.11 | ±9.6 |
| 10747 | AAC | IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) | WLAN | 9.04 | ±9.6 |
| 10748 | AAC | IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) | WLAN | 8,93 | ±9.6 |
| 10749 | AAC | IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| 10750 | AAC | IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle) | WLAN | 8.79 | ±9.6 |
| 10751 | AAC | IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 10752 | AAC | IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |

| | | | Group | PAR (dB) | $Unc^{E} k = 2$ |
|----------------|----------|---|----------------|--------------|-----------------|
| UID | Rev | Communication System Name | WLAN | 9.00 | ±9.6 |
| 10753 | AAC | IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle) IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 10754 | AAC | IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle) | WLAN | 8,64 | ±9.6 |
| 10755 | AAC | IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 10756 | AAC | IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 10757 | AAC | IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 10759 | AAC | IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 10759 | AAC | IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10761 | AAC | IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 10762 | AAC | IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10763 | AAC | IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle) | WLAN | 8.53 | ±9.6 |
| 10764 | AAC | IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) | WLAN | 8.54 | ±9.6 |
| 10765 | AAC | IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) | WLAN | 8.54 | ±9.6 |
| 10766 | AAC | IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) | WLAN | 8.51 | ±9.6 |
| 10767 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 7.99 | ±9.6 |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ±9.6 |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.01 | ±9.6 |
| 10770 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 |
| 10772 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.23 | ±9.6 |
| 10773 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | ±9.6 |
| 10774 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 |
| 10775 | AAD | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 | ±9.6 |
| 10776 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ±9,6 |
| 10777 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.30 | ±9.6 |
| 10778 | AAD | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.42 | ±9.6 |
| 10780 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ±9.6 |
| 10781 | AAD | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.38 | ±9.6 |
| 10782 | AAD | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8,43 | ±9.6 ±9.6 |
| 10783 | AAE | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.31 8.29 | ±9.6 |
| 10784 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 10786 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.44 | ±9.6 |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10788 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QFSK, 15 KHz) | 5G NR FR1 TDD | | ±9.6 |
| 10789 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | | ±9.6 |
| | AAD | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10791 10792 | | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10793 | <u> </u> | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10794 | | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10795 | | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.84 | ±9.6 |
| 10796 | | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 7.82 | ±9.6 |
| 10797 | | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.01 | ±9.6 |
| 10798 | | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10799 | | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10801 | + | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10802 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10803 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10805 | AAD | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10809 | AAD | | 5G NR FR1 TDE | | ±9.6 |
| 10810 | | | 5G NR FR1 TDE | | ±9.6 |
| 10812 | | | 5G NR FR1 TDE | | ±9.6 |
| 10817 | | | 5G NR FR1 TDE | | ±9.6 |
| 10818 | | | 5G NR FR1 TD0 | | ±9,6 |
| 10819 | | | 5G NR FR1 TDE | | ±9.6 |
| 10820 | | | 5G NR FR1 TDI | | ±9.6 |
| 10821 | | | 5G NR FR1 TDI | | ±9.6 |
| 10822 | | | 5G NR FR1 TDI | | ±9.6 ±9.6 |
| 10823 | | | 5G NR FR1 TDI | | ±9.6 |
| 10824 | | | 5G NR FR1 TDI | | ±9.6 |
| 10825 | | | 5G NR FR1 TDI | | ±9.6 |
| 10827 | | | 5G NR FR1 TDI | | ±9.6 |
| 10828 | 3 AAD | OU NET (OF-OFDIN), 100 /6 FD, 30 INFEC, GEOR, 30 RHZ) | January II (D) | | |

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E $k=2$ |
|----------------|-----|--|--------------------------------|--------------|------------------------|
| 10829 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 |
| 10830 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.63 | ±9.6 |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.73 | ±9.6 |
| 10832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.74 | ±9.6 |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ±9.6 |
| 10834 | AAD | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.75 | ±9.6 |
| 10835 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ±9.6 |
| 10836 | AAD | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.66 | ±9.6 |
| 10837 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.68 | ±9,6 |
| 10839 | AAD | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ±9.6 |
| 10840 | AAD | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 7.67 | ±9.6 ±9.6 |
| 10841 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.71 8.49 | ±9.6 |
| 10843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10844 | AAD | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 KHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10854 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 10856 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8,37 | ±9.6 |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 10858 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 10859 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10860 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10861 | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.40 | ±9.6 |
| 10863 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10864 | AAD | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.37 | ±9.6 |
| 10865 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 10866 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10868 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.89 | ±9.6 |
| 10869 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ±9.6 |
| 10870 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD 5G NR FR2 TDD | 5.86 5.75 | ±9.6 ±9.6 |
| 10871 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52 | ±9.6 |
| 10872 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ±9,6 |
| 10874 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ±9.6 |
| 10875 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ±9.6 |
| 10876 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.39 | ±9.6 |
| 10877 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 7.95 | ±9.6 |
| 10878 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ±9.6 |
| 10879 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.12 | ±9.6 |
| 10880 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.38 | ±9.6 |
| 10881 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ±9.6 |
| 10882 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | ±9.6 |
| 10883 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ±9.6 |
| 10884 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | ±9.6 |
| 10885 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ±9.6 |
| 10886 10887 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD 5G NR FR2 TDD | 6.65 7.78 | ±9.6 ±9.6 |
| 10888 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.35 | ±9.6 |
| 10889 | AAE | 5G NR (CP-OFDM, 100 % HB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.02 | ±9.6 |
| 10890 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 8.40 | ±9.6 |
| 10891 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.13 | ±9.6 |
| 10892 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.41 | ±9.6 |
| 10897 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.66 | ±9.6 |
| 10898 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ±9.6 |
| 10899 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.67 | ±9.6 |
| 10900 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10902 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10903 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10904 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 10905 10906 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD 5G NR FR1 TDD | 5.68 5.68 | ±9.6 ±9.6 |
| 10906 | AAB | 5G NR (DFT-s-OFDM, 1 HB, 80 MHz, QFSK, 30 KHz) | 5G NR FR1 TDD | | ±9.6 |
| 10908 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.93 | ±9.6 |
| 10909 | | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10910 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| | | | | | |

| 1991 A88 SA NE (DET & OFFINE, 509 NR 9, SAME, OFFISK, SUME) SA NE FINT TOD 5.84 5.96 | QIU | Rev | Communication System Name | Group | PAR (dB) | $Unc^{E} k = 2$ |
|--|---|--------------|--|---------------|--------------|-----------------|
| 16913 AAB 50 NR (PET-GOFEN, 500 MR, 60 MM, CPSK, 30 MK) 50 NR FRI TIDD 5.85 5.06 | | | | | | ±9.6 |
| | 10912 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 16915 AAB 50 Nit (DIT-SOFDM, Styrk, Rg, 6, MMHz, OPSK, 500Hz) | 10913 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 160161 ARB SG NR (DIFF-OFFOR) 597-RR (500Hz) (CPSK, 50Hz) SG NR FRI TDD S.67 4:9.6 | 10914 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.85 | ±9.6 |
| 1991 AAB 60 NR 1071-6-071M, 2004 RB, 100 MEV, CPSK, 300 Hz) | 10915 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | ±9.6 |
| 19919 AAB SO NIR (DIFFS-DEFOK, 100% RS, 1849), CPSK, 19840 SO NIR FRI TIDD 5.88 ±9.6 | 10916 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.87 | ±9.6 |
| 19919 AAB AAB SQ NN (DFT-OFDM, 1097-RB, 101MFz, OPSK, 301MFz) | 10917 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 1982 ARS SG NR (DFT=COFEM, 100% RR, 15MHz, CPSK, 30Hz) | 10918 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ±9.6 |
| 1992 ARS SO NR (DFT-COFM, 100K, RR, 20MHz, OPSK, 30MHz) | 10919 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ±9.6 |
| 19922 ARB SG NR (DFF-COPIM, 100%, RR), 25MHz, CPSK, 30HHz) | 10920 | AAB | | | | |
| 1992 AAS SG NR (DFT=OFDM, 100% RB, 30MHz, OFSK, 50MHz) | 10921 | AAB | | | | |
| 1992 AAB SG NR (DFT-6-OFDM, 100% RB, 40MHz, OPSK, 50MHz) | 10922 | AAB | | | | |
| 1992 AAB SG NR (D'FE-OFDM, 1995; RB, 50MHz, O'PSK, 30MHz) SG NR FRH TDD 5,98 49,6 1992 AAB SG NR (D'FE-OFDM, 1995; RB, 50MHz, O'PSK, 30MHz) SG NR FRH TDD 5,94 49,6 1992 AAB SG NR (D'FE-OFDM, 1995; RB, 50MHz, O'PSK, 15MHz) SG NR FRH TDD 5,94 49,6 1992 AAC SG NR (D'FE-OFDM, 1985, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,52 49,6 1993 AAC SG NR (D'FE-OFDM, 1985, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,52 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,52 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,52 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 188, 5MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 15MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 15MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 15MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 15MHz, O'PSK, 15MHz) SG NR FRH TDD 5,51 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 50MHz, O'PSK, 15MHz) SG NR FRH TDD 5,52 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 50MHz, O'PSK, 15MHz) SG NR FRH TDD 5,52 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 50MHz, O'PSK, 15MHz) SG NR FRH TDD 5,80 49,6 1993 AAC SG NR (D'FE-OFDM, 598, RB, 50MHz, O'PSK, 15MHz) SG NR FRH TDD 5,80 49,6 1993 | L | | | | | |
| 19926 AAB SG NR (DFT-COFDM, 1079; RB, 50MHz, CPSK, 15MHz) | | | | <u> </u> | | |
| 1992 AAB SO NR (DFT-S-DEM), 1098; BB, 80MHz, CPSK, 158Hz) | <u></u> | | | | | <u> </u> |
| 1992 AAC GG NR (DFTs-OFDM, 1 RB, 5MHz, OPSK, 15kHz) SG NR FR1 FDD 5.52 19.6 | | | | | | <u></u> |
| 1998 AAC SG NR (DFFs-OFOM, 1RB, 19MHz, OPSK, 15kHz) SG NR FR1 FDD 5,52 9.96 | | | | | | <u> </u> |
| 19930 AAC GG NR (DFTs-OFDM, 1 RB, 15MHz, DPSK, 15MHz) 55 NR FR1 FDD 5.51 19.6 | | | | ļ | | |
| 1993 AAC SG NR (DFTs-OFDM, 1 RB, 25MHz, OPSK, 15kHz) SG NR FR1 FDD 5.51 49.6 | | | | | 1 | |
| 10932 AAC GG NR (DFT-G-DFDM, 1 RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.51 49.6 10934 AAC 5G NR (DFT-G-DFDM, 1 RB, 10 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.51 49.6 10934 AAC 5G NR (DFT-G-DFDM, 1 RB, 10 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.51 49.6 10935 AAD 5G NR (DFT-G-DFDM, 1 RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.51 49.6 10937 AAC 5G NR (DFT-G-DFDM, 1 RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.90 49.6 10937 AAC 5G NR (DFT-G-DFDM, 50% RB, 10 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.90 49.6 10938 AAC 5G NR (DFT-G-DFDM, 50% RB, 10 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.77 49.6 10938 AAC 5G NR (DFT-G-DFDM, 50% RB, 10 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.90 49.6 10938 AAC 5G NR (DFT-G-DFDM, 50% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.90 49.6 10936 AAC 5G NR (DFT-G-DFDM, 50% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 49.6 10941 AAC 5G NR (DFT-G-DFDM, 50% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 49.6 10942 AAC 5G NR (DFT-G-DFDM, 50% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 49.6 10944 AAC 5G NR (DFT-G-DFDM, 50% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 49.6 10944 AAC 5G NR (DFT-G-DFDM, 50% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 49.6 10944 AAC 5G NR (DFT-G-DFDM, 50% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 49.6 10944 AAC 5G NR (DFT-G-DFDM, 50% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 49.6 10944 AAC 5G NR (DFT-G-DFDM, 50% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 49.6 10944 AAC 5G NR (DFT-G-DFDM, 50% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.81 49.6 10944 AAC 5G NR (DFT-G-DFDM, 100% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.81 49.6 10944 AAC 5G NR (DFT-G-DFDM, 100% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.81 49.6 10944 AAC 5G NR (DFT-G-DFDM, 100% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.81 49.6 10944 AAC 5G NR (DFT-G-DFDM, 100% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FD | ļ | | | | | |
| 19933 AAC SG NR (DFT-S-OFDM, 1 RB, 30MHz, QPSK, 15kHz) | J | | | | | |
| 10935 AAC GG NR (PFT=OFDM, 18B, 49MHz, OPSK, 15Hz) 5G NR FRI FDD 5.51 19.6 10935 AAC 5G NR (DFT=OFDM, 18D, 50MHz, OPSK, 15Hz) 5G NR FRI FDD 5.90 19.8 10937 AAC 5G NR (DFT=OFDM, 50% RB, 5 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.90 19.8 10937 AAC 5G NR (DFT=OFDM, 50% RB, 10 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.90 19.8 10938 AAC 5G NR (DFT=OFDM, 50% RB, 10 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.90 19.8 10939 AAC 5G NR (DFT=OFDM, 50% RB, 10 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.90 19.6 10939 AAC 5G NR (DFT=OFDM, 50% RB, 20 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.82 19.6 10930 AAC 5G NR (DFT=OFDM, 50% RB, 20 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.82 19.6 10940 AAC 5G NR (DFT=OFDM, 50% RB, 30 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.82 19.6 10941 AAC 5G NR (DFT=OFDM, 50% RB, 30 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.83 19.6 10942 AAC 5G NR (DFT=OFDM, 50% RB, 30 M±z, QPSK, 15Hz) 5G NR FRI FDD 5.83 19.6 10943 AAC 5G NR (DFT=OFDM, 50% RB, 50 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.85 19.6 10944 AAC 5G NR (DFT=OFDM, 50% RB, 50 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.85 19.6 10945 AAC 5G NR (DFT=OFDM, 50% RB, 50 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.81 19.6 10946 AAC 5G NR (DFT=OFDM, 100% RB, 50 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.81 19.6 10946 AAC 5G NR (DFT=OFDM, 100% RB, 50 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.83 19.6 10947 AAC 5G NR (DFT=OFDM, 100% RB, 50 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.83 19.6 10947 AAC 5G NR (DFT=OFDM, 100% RB, 20 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.83 19.6 10947 AAC 5G NR (DFT=OFDM, 100% RB, 20 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.83 19.6 10947 AAC 5G NR (DFT=OFDM, 100% RB, 20 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.83 19.6 10947 AAC 5G NR (DFT=OFDM, 100% RB, 20 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.83 19.6 10947 AAC 5G NR (DFT=OFDM, 100% RB, 20 M±z, QPSK, 15H±z) 5G NR FRI FDD 5.83 19.6 10948 AAC 5G NR (DFT=OFDM, 1 | ļ | | | | | |
| 10935 AAO SG NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz) SG NR FRI FDD 5.90 1.9.8 10937 AAC SG NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz) SG NR FRI FDD 5.90 1.9.8 10938 AAC SG NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15kHz) SG NR FRI FDD 5.90 1.9.8 10939 AAC SG NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15kHz) SG NR FRI FDD 5.90 1.9.6 10940 AAC SG NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.90 1.9.6 10941 AAC SG NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.82 1.9.6 10942 AAC SG NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.83 1.9.6 10942 AAC SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 1.9.6 10943 AAC SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 1.9.6 10944 AAC SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 1.9.6 10944 AAC SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 1.9.6 10945 AAC SG NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 1.9.6 10946 AAC SG NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 1.9.6 10947 AAC SG NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 1.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15kHz) SG NR FRI FDD 5.87 1.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.87 1.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.87 1.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.94 1.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.94 1.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.87 1.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) SG NR FRI FDD 5.87 1.9.6 1 | | | | | | 1 |
| 10936 AAC SG NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz) SG NR FRI FDD 5.90 4.9.6 | *************************************** | } | | | | |
| 1993 AAC SG NR (DFT-s-OFDM, 50% RB, 10MHz, QPSK, 15kHz) SG NR FRI FDD 5.97 4.9.6 1998 AAC SG NR (DFT-s-OFDM, 50% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD 5.92 4.9.6 1998 AAC SG NR (DFT-s-OFDM, 50% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD 5.82 4.9.6 1994 AAC SG NR (DFT-s-OFDM, 50% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD 5.82 4.9.6 1994 AAC SG NR (DFT-s-OFDM, 50% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD 5.83 4.9.6 1994 AAC SG NR (DFT-s-OFDM, 50% RB, 30MHz, QPSK, 15kHz) SG NR FRI FDD 5.83 4.9.6 1994 AAC SG NR (DFT-s-OFDM, 50% RB, 30MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 4.9.6 1994 AAC SG NR (DFT-s-OFDM, 50% RB, 50MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 4.9.6 1994 AAC SG NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 4.9.6 1994 AAC SG NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 4.9.6 10944 AAC SG NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 4.9.6 10947 AAC SG NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 4.9.6 10947 AAC SG NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz) SG NR FRI FDD 5.85 4.9.6 10947 AAC SG NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) SG NR FRI FDD 5.87 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) SG NR FRI FDD 5.87 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) SG NR FRI FDD 5.94 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) SG NR FRI FDD 5.94 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) SG NR FRI FDD 5.92 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) SG NR FRI FDD 5.92 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 35MHz, QPSK, 15kHz) SG NR FRI FDD 5.92 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 30MHz, QPSK, 15kHz) SG NR FRI FDD 5.92 4.9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 30MHz, QPSK, 15kHz) SG | | | | | | |
| 10938 AAC SG NR (DFTs-OFDM, 50% RB, 15MHz, QPSK, 15KHz) SG NR FRI FDD S.99 ±9.6 | | <u> </u> | | | | |
| 10930 AAC SG NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.82 ±9.6 | | <u> </u> | | | | |
| 10940 AAC SG NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.88 ±9.6 10942 AAC SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.85 ±9.6 10943 AAD SG NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.95 ±9.6 10944 AAC SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.95 ±9.6 10944 AAC SG NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.81 ±9.6 10946 AAC SG NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.81 ±9.6 10946 AAC SG NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.83 ±9.6 10947 AAC SG NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.83 ±9.6 10947 AAC SG NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.83 ±9.6 10948 AAC SG NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.94 ±9.6 10949 AAC SG NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.94 ±9.6 10950 AAC SG NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.94 ±9.6 10951 AAD SG NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 KHz) SG NR FR1 FDD 5.94 ±9.6 10952 AAA SG NR (DFT-s-OFDM, 100% RB, 40 MHz, BYSK, 15 KHz) SG NR FR1 FDD 5.92 ±9.8 10953 AAA SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64 CAAM, 15 KHz) SG NR FR1 FDD 5.92 ±9.8 10954 AAA SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64 CAAM, 15 KHz) SG NR FR1 FDD 8.23 ±9.6 10955 AAA SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64 CAAM, 15 KHz) SG NR FR1 FDD 8.23 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64 CAAM, 15 KHz) SG NR FR1 FDD 8.23 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64 CAAM, 15 KHz) SG NR FR1 FDD 8.24 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64 CAAM, 15 KHz) SG NR FR1 FDD 8.31 ±9.6 10957 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64 CAAM, 30 KHz) SG NR FR1 F | | . | | | <u> </u> | |
| 10941 AAC 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10942 AAC 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.95 ±9.6 10944 AAC 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.95 ±9.6 10944 AAC 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.81 ±9.6 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 ±9.6 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10948 AAC 5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10949 AAC 5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10940 AAC 5G NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10951 AAD 5G NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10952 AAA 5G NR (DFT-s-OFDM, 100% RB, 50MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10956 AAB 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 9.22 ±9.6 10956 AAB 5G NR | | <u> </u> | | | , | |
| 10942 | | <u> </u> | | - | } | L |
| 10943 AAD 6G NR (DFTs-OFDM, 109% RB, 50MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.95 ±9.6 10944 AAC 6G NR (DFTs-OFDM, 109% RB, 5MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.81 ±9.6 10946 AAC 6G NR (DFTs-OFDM, 109% RB, 10MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.85 ±9.6 10947 AAC 6G NR (DFTs-OFDM, 109% RB, 15MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 6G NR (DFTs-OFDM, 109% RB, 15MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 6G NR (DFTs-OFDM, 109% RB, 25MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 6G NR (DFTs-OFDM, 109% RB, 25MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 ±9.6 10949 AAC 6G NR (DFTs-OFDM, 109% RB, 25MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 6G NR (DFTs-OFDM, 109% RB, 30MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.87 ±9.6 10951 AAC 5G NR (DFTs-OFDM, 109% RB, 30MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR (DFTs-OFDM, 109% RB, 50MHz, QPSK, 15KHz) 5G NR FR1 FDD 5.92 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.25 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.24 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.24 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.24 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.24 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR FR1 FDD 9.30 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15KHz) 5G NR F | | | | | | |
| 10945 | | AAD | | | 5.95 | |
| 10946 AAC 5G NR (DFTs-OFDM, 100% RB, 15MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10952 AAA 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 ±9.6 10953 AAA 5G NR DL (CP-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10954 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.26 ±9.6 10955 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.26 ±9.6 10955 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10955 AAA 5G NR DL (CP-OFDM, 17M 3.1, 5 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10957 AAA 5G NR DL (CP-OFDM, 17M 3.1, 5 MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.41 ±9.6 10957 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 9.32 ±9.6 10959 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10959 AAA 5G NR DL (CP-OFDM, 17M 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.35 ±9.6 10960 AAC 5G NR DL (CP-OFDM, 17M 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.5 | 10944 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.81 | ±9.6 |
| 10947 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 9.32 ±9.6 10964 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.35 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10968 AAB 5G NR DL (CP- | 10945 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ±9.6 |
| 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.97 ±9.6 10951 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 9.32 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10968 AAB 5G NR DL (CP- | 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ±9.6 |
| 10949 AAC SG NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.87 ±9.6 10950 AAC SG NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.94 ±9.6 10951 AAD SG NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) SG NR FR1 FDD 5.92 ±9.6 10952 AAA SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) SG NR FR1 FDD 8.25 ±9.6 10953 AAA SG NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) SG NR FR1 FDD 8.15 ±9.6 10954 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) SG NR FR1 FDD 8.25 ±9.6 10954 AAA SG NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) SG NR FR1 FDD 8.26 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) SG NR FR1 FDD 8.14 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) SG NR FR1 FDD 8.14 ±9.6 10957 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 FDD 8.31 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 FDD 8.31 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 FDD 8.31 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 FDD 8.33 ±9.6 10960 AAC SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 FDD 8.33 ±9.6 10961 AAB SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) SG NR FR1 FDD 9.32 ±9.6 10962 AAB SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) SG NR FR1 TDD 9.35 ±9.6 10965 AAB SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) SG NR FR1 TDD 9.35 ±9.6 10965 AAB SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) SG NR FR1 TDD 9.35 ±9.6 10965 AAB SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 TDD 9.29 ±9.6 10965 AAB SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 TDD 9.29 ±9.6 10965 AAB SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) SG NR FR1 TDD 9.40 ±9.6 10968 AAB | 10947 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ±9.6 |
| 10950 AAC 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR (DFT-s-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.33 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.40 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.40 ±9.6 10968 AAB 5 | 10948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ±9.6 |
| 10951 AAD 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB | 10949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ±9.6 |
| 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 | 1 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ±9.6 |
| 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.15 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 12 MHz, 64- | | | | | 5.92 | ±9.6 |
| 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.40 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64 | | AAA | Lamana Caraca Ca | | 8.25 | |
| 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 </td <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>i</td> | | 1 | | | | i |
| 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64- | | ļ | | | | <u> </u> |
| 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64 | ļ | | | | | |
| 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-Q | | | 1 | | + | |
| 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10972 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10972 AAB 5G NR FR1 TDD 9.42 <td></td> <td></td> <td></td> <td></td> <td></td> <td>£</td> | | | | | | £ |
| 10960 AAC 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 TDD 9.32 ±9.6 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.42 ±9.6 10972 AAB 5G NR DL (CP-OFDM, TM 3.1, 100MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.49 ±9.6 10973 AAB 5G NR CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 TDD 9.49 ±9.6 10973 AAB 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G N | | | | | | .} |
| 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10972 AAB 5G NR GCP-OFDM, 1 RB, 20 MHz, GPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10976 AAA ULLA 1.16 ±9.6 </td <td>ļ</td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> | ļ | | | | | <u> </u> |
| 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAB 5G NR (CP-OFDM, T BB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA 1.16 ±9. | | | | | | .) |
| 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10972 AAB 5G NR GCP-OFDM, T RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA 1.16 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 | J., | | | | <u> </u> | |
| 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ±9.6 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAB 5G NR (CP-OFDM, T RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA 1.16 ±9.6 10979 AAA ULLA 1.16 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3. | | ļ | | | | 4 |
| 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAB 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10980 AAA ULLA HDR4 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6 | | | | | | |
| 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.55 ±9.6 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAB 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6 | J | | | | | |
| 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±9.6 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAB 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6 | | | · · · · · · · · · · · · · · · · · · · | 1 | | |
| 10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±9.6 10972 AAB 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6 | | | | | | |
| 10972 AAB 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±9.6 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6 | | | | | | |
| 10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±9.6 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6 | | <u> </u> | | | | |
| 10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±9.6 10978 AAA ULLA BDR ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDR94 ULLA 3.19 ±9.6 | | · | | | | |
| 10978 AAA ULLA 1.16 ±9.6 10979 AAA ULLA HDR4 ULLA 8.58 ±9.6 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6 | | AAB | | | 1 | |
| 10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6 | 10978 | AAA | ULLA BDR | | | |
| 10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6 | 10979 | AAA | ULLA HDR4 | ULLA | 8.58 | ±9.6 |
| | 10980 | AAA | ULLA HDR8 | 1 | 10.32 | ±9.6 |
| 10982 AAA ULLA HDRp8 | | AAA | | | 3.19 | ±9.6 |
| | 10982 | AAA | ULLA HDRp8 | ULLA | 3.43 | ±9.6 |

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E $k=2$ |
|-------|-----|---|---------------|----------|------------------------|
| 10983 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31 | ±9.6 |
| 10984 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.42 | ±9.6 |
| 10985 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54 | ±9.6 |
| 10986 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50 | ±9.6 |
| 10987 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53 | ±9.6 |
| 10988 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38 | ±9,6 |
| 10989 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33 | ±9.6 |
| 10990 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52 | ±9.6 |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24 | ±9.6 |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73 | ±9.6 |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.70 | ±9.6 |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55 | ±9.6 |
| 11007 | AAA | 5G NR DL. (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.46 | ±9.6 |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.51 | ±9.6 |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.76 | ±9.6 |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.95 | ±9.6 |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.96 | ±9.6 |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.68 | ±9.6 |
| 11013 | AAA | IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle) | WLAN | 8.47 | ±9.6 |
| 11014 | AAA | IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 11015 | AAA | IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | ±9.6 |
| 11016 | AAA | IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle) | WLAN | 8.44 | ±9.6 |
| 11017 | AAA | IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle) | WLAN | 8.41 | ±9.6 |
| 11018 | AAA | IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle) | WLAN | 8.40 | ±9.6 |
| 11019 | AAA | IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 11020 | AAA | IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle) | WLAN | 8.27 | ±9.6 |
| 11021 | AAA | IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle) | WLAN | 8.46 | ±9.6 |
| 11022 | AAA | IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 11023 | AAA | IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle) | WLAN | 8.09 | ±9.6 |
| 11024 | AAA | IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 11025 | AAA | IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle) | WLAN | 8.37 | ±9.6 |
| 11026 | AAA | IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle) | WLAN | 8.39 | ±9.6 |

 $^{^{\}mathsf{E}}$ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.