

TEST REPORT

FCC RF Exposure Test for ICR010 Certification

APPLICANT HYUNDAI MOBIS CO., LTD.

REPORT NO. HCT-SR-2402-FI001-R2

DATE OF ISSUE November 28, 2024

> Tested by Byeong Chul Yoon

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Joon

1/53



F-TP22-03(Rev.06)

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| T E S T R E P O R T | REPORT NO. HCT-SR-2402-FI001-R2 DATE OF ISSUE Nov. 28, 2024 | | |
|------------------------|---|--|--|
| Applicant | HYUNDAI MOBIS CO., LTD. 203, Teheran-ro, Gangnam-gu, Seoul, 135-977, South Korea (06141) | | |
| EUT Type Model Name | SENSOR ASSY-REAR OCCUPANT ALERT ICR010 | | |
| Date of Test | Jan. 15, 2024 ~ Jan. 16, 2024 | | |
| Location of Test | Permanent Testing Lab On Site Testing Lab (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA) | | |
| Test Standard Used | FCC Rule Part(s): CFR §2.1091 | | |
| Test Results | PASS (PD Limit: 1.0 mW/m², avg. 1 m²) Refer to the clause 3.2 Test Result | | |
| | The result shown in this test report refer only to the sample(s) tested unless otherwise stated. This test results were applied only to the test methods required by the standard. | | |



REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue | Description |
|--------------|---------------|-------------------|
| 0 | Feb. 05, 2024 | Initial Release |
| 1 | Nov. 13, 2024 | Revised Sec. 4.2 |
| 2 | Nov. 28, 2024 | Deleted ISED Data |

Notice

Content

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).



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1. Test Regulations

The tests documented in this report were performed in accordance with CFR §2.1091 and RSS-102:Issue 6 and the following published document procedures.

| Test Method | TCBC Workshop Notes. April 2016, May 2017, November 2017, October 2018, April 2019, November 2019, October 2020, April 2022 IEC 62311:2020 IEC TR63170:2018 |
|-------------|---|
|-------------|---|



2. Test Location

2.1 Test Laboratory

| Test Laboratory | | |
|-----------------|---|--|
| Company Name: | HCT Co., LTD | |
| Address: | 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of Korea | |
| Telephone: | +82 31 645 6300 | |
| Fax.: | +82 31 645 6401 | |

3. Information of the EUT

3.1 PD Test General Information

| Attestation of SAR test result | | | |
|--------------------------------|---------------------------------|--|--|
| Applicant Name: | HYUNDAI MOBIS CO., LTD. | | |
| FCC ID: | TQ8-ICR010 | | |
| Model: | ICR010 | | |
| EUT Type: | Sensor ASSY-REAR OCCUPANT ALERT | | |
| Application Type: | Certification | | |

3.2 Attestation of test result of device under test

| The Measurement Results | | | | |
|-------------------------|-------------------------------|--------------------|------------------------|--|
| Dond | Tx. Frequency | Equipment | psPD | |
| Band | (GHz) | Equipment Class | 1 cm² avg. PD (mW/cm²) | |
| 60 GHz | 60 ~ 64 | FDS | 0.0022 | |
| Date(s) of Tests: | Jan. 15, 2024 ~ Jan. 16, 2024 | | | |



4. Device Under Test Description

4.1 DUT specification

| Device Wireless specification overview | | |
|--|-----------------|--|
| Band & Mode Tx Frequency | | |
| 60 GHz | 60 GHz ~ 64 GHz | |

4.2 Output Power Specifications

4.2.1 Maximum Target Power

Maximum Target Power

| Frequency [MHz] | EIRP (dBm) |
|-----------------|------------|
| 61 090 | 10.8 |

(Tolerance: target ±2.0 dB)

4.2.2 Maximum Measured 60 GHz output EIRP

Maximum Measured Power

| Frequency [MHz] | EIRP (dBm) |
|-----------------|------------|
| 61 090 | 12.68 |

Note:

For testing the 60 GHz of this DUT, the selection of test channels was based on FCC guidance and Part 15.255 Report [no: HCT-RF-2301-FC089-R1], with Low/Middle/High and The maximum EIRP Channel were selected across the entire 60 GHz Bands.

• EIRP measurements were performed for the transmission mode configuration with the highest maximum EIRP specified for production units.

• For transmission modes with identical maximum specified output EIRP, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.



4.3 DUT Antenna Locations

The dimensions and separation distances of this model are shown in the Technical Descriptions.

| | | Device Configurations for Testing | | | | |
|-------|------|-----------------------------------|------|-------|-----|--------|
| Mode | Rear | Front | Left | Right | Тор | Bottom |
| Radar | No | Yes | No | No | No | No |

Particular EUT edges were not required to be evaluated for PD if the edges were the transmitting antenna according to antenna radiation pattern.

- Note: All test configurations are based on front view position.





4.4 PD Test Considerations.

PD was performed using 60GHz mmWave Probe calibration factors. mmWave PD were followed for test positions, distances, and modes. The equipment class of this model is DXX of 60 GHz.

Per Oct. 2020 TCBC Workshop notes:

Portable devices transmitting at frequencies > 6 GHz, including 60 GHz band, are subject to MPE incident power density (PD, or IPD) limits.

MPE limit is 1 mW/cm²(10W/m²) plane-wave-equivalent PD, averaged over 1cm²/4cm², evaluation distance emulating normal use conditions



5. Limits

RF Exposure Limits for Frequencies Above 6 GHz For FCC

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is express ed in units of mW/m^2 or W/m^2 .

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 m² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

| HUMAN EXPOSURE | Limits For Occupational / Controlled Environments | Limits For General Population / Uncontrolled Environments | |
|-----------------------|--|--|--|
| Frequency Range[MHz] | 1,500 — 100,000 | 1,500 — 100,000 | |
| Power Density[mW/an*] | 5.0 | 1.0 | |
| Average Time[Minutes] | 6 | 30 | |

NOTES: 1.0 mW/cm $^{\circ}$ is 10 W/m $^{\circ}$



6. System Verification

6.1 Power Density Verification for 60GHz

| Freq. [GHz] | Date | Probe SN | Dipole S/N | (VV/m² O\ | /er1cm²) | Deviation [dB] | (W/m² o\ | psPD /er 1 cm ²) | Deviation [dB] |
|----------------|------------|-------------|---------------|-----------|----------|-------------------|----------|---------------------------------|-------------------|
| | | | | Measured | Target | | Measured | Target | |
| 60 | 01/15/2024 | 9486 | 1041 | 131 | 144 | -0.41 | 131 | 144 | -0.41 |
| 60 | 01/16/2024 | 9486 | 1041 | 130 | 144 | -0.44 | 130 | 144 | -0.44 |

| Freq. [GHz] | Date | Probe SN | Dipole S/N | | al psPD ver 4 cm²) | Deviation [dB] | | psPD /er 4 cm²) | Deviation [dB] |
|----------------|------------|-------------|---------------|----------|------------------------|-------------------|----------|---------------------|-------------------|
| [GH2] | | NIC. | 3/11 | Measured | Target | [UD] | Measured | Target | [UD] |
| 60 | 01/15/2024 | 9486 | 1041 | 87.7 | 96.6 | -0.42 | 88.6 | 97.9 | -0.43 |
| 60 | 01/16/2024 | 9486 | 1041 | 87.7 | 96.6 | -0.42 | 88.5 | 97.9 | -0.44 |

6.2 System Verification Procedure

For Power Density Measurement

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially(shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



7. PD Test Data Summary

7.1 Power Density Results

| | | | | 6 | 0 GHz P | ower | Density | | | | |
|------------------|--------------------------|---------------------|-------------|------------------|------------------|---------------------|------------------------------|-------------------------------|------------------------------|-----------------------------|-------------|
| Frequency MHz | Mode | Power Drift (dB) | Peak No. | Distance (mm) | Test Position | Grid Step (λ) | Normal psPD (mW/ဏ²)[1 ဏ²] | Total psPD (mW/cm²)[1 cm²] | Normal psPD (mW/m²)[4 m²] | Total psPD (mW/m²)[4 m²] | Plot No. |
| 60 341.5 | Radar | -0.18 | 1 | 2 | Front | 0.25 | 0.0019 | 0.0022 | 0.0016 | 0.0019 | - |
| 62 082.8 | Radar | -0.09 | 1 | 2 | Front | 0.25 | 0.0018 | 0.002 | 0.0013 | 0.0015 | - |
| 63 824 | Radar | -0.10 | 1 | 2 | Front | 0.25 | 0.0016 | 0.0019 | 0.0013 | 0.0015 | - |
| 61 090 | Radar | -0.19 | 1 | 2 | Front | 0.25 | 0.002 | 0.0022 | 0.0016 | 0.0019 | 1 |
| 47 CF | -R § 1.1310 – Saf | ety Limit/ Sa | afety | code 6 | | Power Density | | | | | |
| | Spatial Average | | | | | | 1 mW/cm² | | | | |
| Unco | ontrolled Exposu | re/ General | Ρορι | Ilation | | | | Averaged | over 1 cm ² | | |



7.2 Power Density General Notes

1. The manufacturer has confirmed that the device tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.

2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.

3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.

4. Tested Power Density is used from maximum EIRP modulation in RF Report.



8. Measurement Uncertainty

For Power Density Measurements:

| Medsulei | ment Uncerta | | | | | |
|---|--------------------------------|-----------------------------|------|----|-----------------------------------|---|
| а | Ь | с | d | е | f= bxe/d | g |
| Source of uncertainty | Uncertainty Value (± dB) | Probability distribution | Div. | Ci | Standard Uncertainty (± dB) | Vi |
| Probe calibration | 0.49 | N | 1 | 1 | 0.49 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Probe correction | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Frequency Response(BW≤ 1GHz) | 0.20 | R | 1.73 | 1 | 0.12 | 00 |
| Sensor cross coupling | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| stropy | 0.50 | R | 1.73 | 1 | 0.29 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Linearity | 0.20 | R | 1.73 | 1 | 0.12 | 00 |
| Probe scattering | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Probe positioning offset | 0.30 | R | 1.73 | 1 | 0.17 | 00 |
| Probe positioning Repeatability | 0.04 | R | 1.73 | 1 | 0.02 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Probe spatial Resolution | 0.00 | R | 1.73 | 1 | 0.00 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Field Impedence Dependence | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Sensor Mechanical Offset | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Amplitude and Phase noise | 0.04 | R | 1.73 | 1 | 0.02 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Measurement area truncation | 0.00 | R | 1.73 | 1 | 0.00 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| Data acquisition | 0.03 | N | 1 | 1 | 0.03 | 00 |
| Field Reconstruction | 0.60 | R | 1.73 | 1 | 0.35 | 00 |
| Forward Transformation | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Power density Scailing | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Spatial Averaging | 0.10 | R | 1.73 | 1 | 0.06 | 00 |
| Test sample and Environmental Factors | | | | | | |
| Probe coupling with DUT | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Modulation Response | 0.40 | R | 1.73 | 1 | 0.23 | 00 |
| ntegration time | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Response time | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Device holder influence | 0.10 | R | 1.73 | 1 | 0.06 | ∞ |
| DUT alignment | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| RF Ambient Conditions | 0.04 | R | 1.73 | 1 | 0.02 | |
| RF ambient - reflections | 0.04 | R | 1.73 | 1 | 0.02 | 00 |
| mmunity/Secondary Reception | 0.00 | R | 1.73 | 1 | 0.00 | 00 |
| Power Drif of DUT | 0.21 | R | 1.73 | 1 | 0.12 | 00 |
| Combined standard uncertainty (k = 1) | | RSS | | | 0.76 | |
| Expanded uncertainty 95% confidence level) | | k = 2 | | | 1.52 | |



9. PD Test Equipment

| Manufacturer | Type / Model | S/N | Calib. Date | Calib.Interval | Calib.Due |
|--------------|------------------------------|--------------------|-------------|----------------|------------|
| HP | System Control PC | - | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX60 | F/20/0018446/C/001 | N/A | N/A | N/A |
| Staubli | TX60 Lspeag | F/20/0018446/A/001 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | 020885 | N/A | N/A | N/A |
| SPEAG | DAE4 | 868 | 09/20/2023 | Annual | 09/20/2024 |
| SPEAG | E-Field Probe EUmmWV3 | 9486 | 06/19/2023 | Annual | 06/19/2024 |
| SPEAG | 5G Verification source 60GHz | 1041 | 11/16/2023 | Annual | 11/16/2024 |
| TESTO | 175-H1/Thermometer | 44606611906 | 03/27/2023 | Annual | 03/27/2024 |

*The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test.



10. Conclusion

The PD measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.



11. References

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Aug. 1996.

[2] ANSI/IEEE C95.1 - 2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 300 kHz to 300 GHz, New York: IEEE, Sept. 1992

[3] ANSI/IEEE C 95.1 - 2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz, New York: IEEE, 2006

[4] ANSI/IEEE C95.3 - 2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: December 2002.

[5] IEEE Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice or Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices

[6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.

[7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.

[8] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.

[9] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectro magnetics, Canada: 1987, pp. 29-36.

[10] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.

[11] W. Gander, Computer mathematick, Birkhaeuser, Basel, 1992.

[12] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recepies in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.

[13] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

[14] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10 kHz-300 GHz, Jan. 1995.

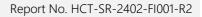
[15] Prof. Dr. Niels Kuster, ETH, EidgenØssischeTechnischeHoschschuleZòrich, Dosimetric Evaluation of the Cellular Phone.



[16] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2009

[17] EN IEC 62311:2020, Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields(0Hz to 300GHz)

[18] IEC TR 63170:2018, Measurement Procedure for the Evaluation of Power Density Related to Human Exposure to Radiofrequency Fields from Wireless Communication Devices Operating between 6GHz and 100GHz





Appendix A. – DUT Ant. Information & Test Setup Photo

Please refer to test DUT Ant. Information & setup photo file no. as follows:

| No. | Description |
|-----|---------------------|
| 0 | HCT-SR-2402-FI001-P |



Report No. HCT-SR-2402-FI001-R2

Appendix B. – PD Test Plots

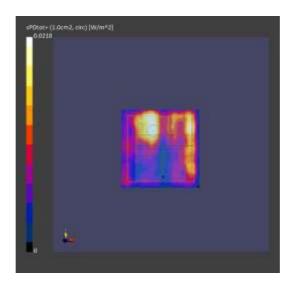


| Test Laboratory: | HCT CO., LTD |
|----------------------|---------------------------------|
| EUT Type: | SENSOR ASSY-REAR OCCUPANT ALERT |
| Ambient Temperature: | 21.6 °C |
| Test Date: | 01/16/2024 |
| Plot No.: | 1 |

Measurement Report for Device, FRONT, Custom Band, CW, Channel 61090000 (61090.0 MHz)

Exposure Conditions

| Phantom Section | Position, To Distance [r | | Band | Group, | UID | Freque Chann | Frequency [MHz], Channel Number | |
|------------------------------|-----------------------------|--|----------------------------|--------|-------------|-----------------|---------------------------------|------|
| 5G | FRONT, 2.0 |)0 | Custom Band | CW, 0 | CW, 0 | | 0, 61090000 | 1.0 |
| Hardware Se | tup | | | | | | | |
| Phantom | Mediur | n Probe | Probe, Calibration Date D. | | | DAE, Calibrati | on Date | |
| mmWave | Air - | Air - EUmmWV4 - SN9486_F55-110GHz, 2023-06-19 DAE4 Sn868, 20 | | | 2023-09-20 | | | |
| Scans Setup | | | | | T | | | |
| Scan Type | | | | | | 5G Scan | | |
| Grid Extents [mm] | | | | | 70.0 x 70.0 | | | 0.0 |
| Grid Steps [lambda] | | | | | | .25 | | |
| Sensor Surfa | ce [mm] | | | | | 2.0 | | |
| Measuremen | it Results | | | | 1 | | | |
| Scan Type | | | | | | can | | |
| Avg. Area [ci | m²] | | | | | .00 | | |
| psPDn+ [W/ | 'm²] | | | | 0.020 | | |)20 |
| psPDtot+ [W/m ²] | | | | 0.022 | | |)22 | |
| E _{max} [V/m] | | | | 4.96 | | | .96 | |
| Power Drift [dB] | | | | | -0.19 | | |).19 |







Appendix C. – Dipole Verification Plots



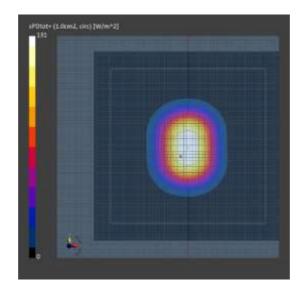


| Test Laboratory: | HCT CO., LTD |
|------------------|--------------|
| Ambient Temp: | 21.3 °C |
| Test Date: | 01/15/2024 |

Measurement Report for Device, FRONT, Validation band, CW, Channel 60000 (60000.0 MHz)

Exposure Conditions

| Phantom Section | | sition, Test stance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion | Factor | |
|------------------------------|------------------|-----------------------------|--|---------------|------------------------------------|--------------------------------|--------|--|
| 5G | FR | ONT, 5.55 | Validation band | CW, 0 | 60000.0, 60000 | 1.0 | | |
| Hardware Setu | д | | | | | | | |
| Phantom | | Medium | m Probe, Calibration Date DAE, Calibration | | | | Date | |
| mmWave - xx | XX | Air - | EUmmWV4 - SN94 | 86_F55-1100 | iHz, 2023-06-19 | z, 2023-06-19 DAE4 Sn868, 2023 | | |
| Scans Setup | | | | | | 1 | | |
| Scan Type | | | | | 5G Scan | | | |
| Grid Extents [r | mm] | | | | | 60.0 × 60.0 | | |
| Grid Steps [lar | mbda | a] | | | | 0.25 x 0.25 | | |
| Sensor Surfac | e [m | m] | | | | 5.55 | | |
| Measurement | Res | ults | | | | | | |
| Scan Type | | | | | | 5G Scan | | |
| Avg. Area [cm | 1 ²] | | | | | 1.00 | | |
| psPDn+ [W/m ²] | | | | | | 131 | | |
| psPDtot+ [W/m ²] | | | | | | 131 | | |
| E _{max} [V/m] | | | | | | 252 | | |
| Power Drift [dB] | | | | | | -0.16 | | |



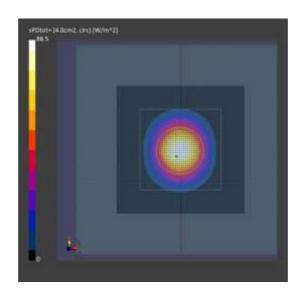




| Test Laboratory: | HCT CO., LTD |
|------------------|--------------|
| Ambient Temp: | 21.3 °C |
| Test Date: | 01/15/2024 |

Measurement Report for Device, FRONT, Validation band, CW, Channel 60000 (60000.0 MHz)

| Exposure Conc | litio | ns | | | | | | | | |
|------------------------------|----------------|----------------------------|------|---------------------|---------------------|-------------|------------------------------------|--------|-------------------|---------|
| Phantom Section | | sition, Test stance [mm |] | Band | Group, UID | | Frequency [MHz], Channel Number | | Conversion Factor | |
| 5G | FR | ONT, 5.55 | | Validation band | CW, 0 | - | 60000.0, 600 | 00 | 1.0 | |
| Hardware Setu | р | - | | | 1 | | | | | |
| Phantom | Medium Prob | | | e, Calibration Date | e, Calibration Date | | | DAE, C | alibration [| Date |
| mmWave | | Air - | EUmr | mWV4 - SN9486_F5 | 55-110GH | z, 20 |)23-06-19 | DAE4 S | Sn868, 202 | 3-09-20 |
| Scans Setup | | | | | | | | | | |
| Scan Type | | | | | | 5G Scan | | | | |
| Grid Extents [mm] | | | | | | 60.0 x 60.0 | | | | |
| Grid Steps [lan | nbda | a] | | | | 0.25 x 0.25 | | | | |
| Sensor Surface | e [mi | m] | | | | 5.55 | | | | |
| Measurement | Resi | ults | | | | | | | | |
| Scan Type | | | | | | 5G Scan | | | | |
| Avg. Area [cm ² | ²] | | | | | 4.00 | | | | |
| psPDn+ [W/m ²] | | | | | 87.7 | | | | | |
| psPDtot+ [W/m ²] | | | | | 88.6 | | | | | |
| E _{max} [V/m] | | | | | 252 | | | | | |
| Power Drift [df | 3] | | | | | | | | -0.16 | |



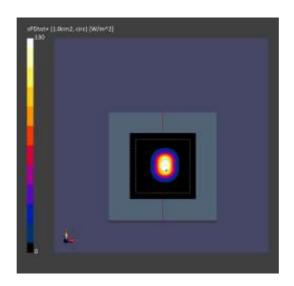




| Test Laboratory: | HCT CO., LTD |
|------------------|--------------|
| Ambient Temp | 21.6 °C |
| Test Date: | 01/16/2024 |

Measurement Report for Device, FRONT, Validation band, CW, Channel 60000 (60000.0 MHz)

| Phantom Section | | osition, Tes istance [mi | | Band | Group, l | JID | Freque Chanr | ency [MHz], nel Number | Conversion Factor |
|------------------------------|-------|-----------------------------|--------|------------------|-------------|-------------|-----------------|---------------------------|----------------------|
| 5G | FF | RONT, 5.55 | | Validation band | CW, 0 | | 60000 | .0, 60000 | 1.0 |
| Hardware Set | tup | | | 1 | | | | | |
| Phantom | | Medium | Probe, | Calibration Date | | | | DAE, Calibrat | ion Date |
| mmWave - x | XXX | Air - | EUmm | WV4 - SN9486_F5 | 5-110GHz, | 2023- | -06-19 | DAE4 Sn868, | 2023-09-20 |
| Scans Setup | | | | | | | | | |
| Scan Type | | | | | | 5G Scan | | | 5G Scan |
| Grid Extents [mm] | | | | | | 60.0 × 60.0 | | | 0 x 60.0 |
| Grid Steps [lambda] | | | | | 0.25 x 0.25 | | | 5 x 0.25 | |
| Sensor Surfa | ce [n | nm] | | | | 5.55 | | | 5.55 |
| Measuremen | t Res | sults | | | | | | | |
| Scan Type | | | | | | 5G Scan | | | 5G Scan |
| Avg. Area [cm ²] | | | | | | 1.00 | | | 1.00 |
| psPDn+ [W/m ²] | | | | | | | | 130 | |
| psPDtot+ [W/m ²] | | | | | | | | 130 | |
| E _{max} [V/m] | | | | | | | | 254 | |
| Power Drift [dB] | | | | | | | | -0.10 | |





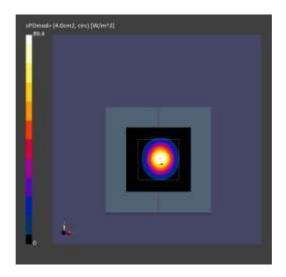


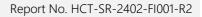
| Test Laboratory: | HCT CO., LTD |
|------------------|--------------|
| Ambient Temp | 21.6 °C |
| Test Date: | 01/16/2024 |

Measurement Report for Device, FRONT, Validation band, CW, Channel 60000 (60000.0 MHz)

Exposure Conditions

| Phantom Section | | Position, Test Distance [mm] | | Band | Group, UID | Frequency [MHz], Channel Number | | Conversion Factor | |
|------------------------------|------------------------|---------------------------------|------|----------------------|---------------|------------------------------------|-----------|----------------------|--|
| 5G | FRO | ONT, 5.55 | | Validation band | CW, 0 | 60000.0, 600 | 00 | 1.0 | |
| Hardware Se | tup | | | | | | | | |
| Phantom | | Medium | Prol | pe, Calibration Date | 1 | | DAE, Cali | bration Date | |
| mmWave | | Air - | EUn | nmWV4 - SN9486_I | F55-110GHz, | 2023-06-19 | DAE4 Sn | 868, 2023-09-20 | |
| Scans Setup | | | | | | | | | |
| Scan Type | | | | | | | 1 | 5G Scan | |
| Grid Extents | [mm] | | | | | 60.0 x 60.0 | | | |
| Grid Steps [| Steps [lambda] | | | | | 0.25 x 0.25 | | | |
| Sensor Surfa | ice [mr | n] | | | | 5.55 | | | |
| Measuremer | nt Resu | ılts | | | | | | | |
| Scan Type | | | | | | 5G Scan | | | |
| Avg. Area [cm ²] | | | | | 4.00 | | | | |
| psPDn+ [W/m ²] | | | | 87.7 | | | | | |
| psPDtot+ [W/m ²] | | | | | 88.5 | | | | |
| E _{max} [V/m] | E _{max} [V/m] | | | | | | 254 | | |
| Power Drift [dB] | | | | | | -0.10 | | | |







Appendix D. – Probe Calibration Data



| Calibration Laborato Schmid & Partner Engineering AG eughausstrasse 43, 8004 Zu | | | Service suisse d'étalonnage Servizio svizzero di taratura |
|--|--|--|--|
| ocredited by the Swiss Accr he Swiss Accreditation Se luitilateral Agreement for t | editation Service (SAS) rivice is one of the signal | tories to the EA | ccreditation No.: SCS 0108 |
| lient HCT Gyeonggi-do, P | lepublic of Korea | Certificate No. | EUmm-9486_Jun23 |
| CALIBRATION C | ERTIFICATE | | |
| Object | EUmmWV4 - S | SN:9486 | |
| Calibration procedure(s) | | , QA CAL-25.v8, QA CAL-42.v3 cedure for E-field probes optimized air | for close near field |
| Calibration date | June 19, 2023 | | |
| The measurements and the | uncertainties with confider onducted in the closed labo | o national standards, which realize the physica ice probability are given on the following page pratory facility: environment temperature (22 ± on) | s and are part of the certificate. |
| Delman, Chandrada | 1.00 | T Server and the server ser | |
| Primary Standards Power sensor NRP110T | ID SN: 101244 | Cal Date (Certificate No.) 12-Apr-23 (No. 0001A300692178) | Scheduled Calibration Apr-24 |
| Spectrum analyzer FSV40 | SN: 101832 | 23-Jan-23 (No. 4030-315006314) | Jan-24 |
| Raf. Probe EUmmWV3 SAE4ip | SN: 9374 SN: 1662 | 22-May-23 (No. EUmm-9374_May23) | May-24 |
| wereh. | 014, 100.6 | 13-Feb-23 (No. DAE4ip-1662_Feb23) | Feb-24 |
| Secondary Standards | 10 | Check Date (In house) | Scheduled Check |
| Senerator APSIN26G | SN: 669 | 28-Mar-17 (in house check May-23) | In house check: May-24 |
| Serienator Aglient E8251A | SN: US41140111 | 28-Mar-17 (in house check May-23) | In house check: May-24 |
| | Name | Function | Signature |
| Calibrated by | Jeton Kastrati | Laboratory Technician | - a |
| Approved by | Sven Köhn | Technical Manager | 5.5 |
| This calibration certificate sh | all not be reproduced exce | pt in full without written approval of the labora | lssued: July 03, 2023 tory. |
| | | 결 <u> </u> | M 21 A |
| | | 11 11 20-23 107-14 | 1/1/1/24 |
| | | | and the second |



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



Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilisteral Agreement for the recognition of calibration certificates

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S Schweizerischer Kalibrierdienst C Service suisse d'étaionnage Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

Glossary

| =0 is |
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| |

Calibration is Performed According to the Following Standards:

 a) IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005

Methods Applied and Interpretation of Parameters:

- NORMx,y: Assessed for E-field polarization θ = 0 (f ≤ 900MHz in TEM-cell; f > 1800MHz; R22 waveguide). For frequencies > 6 GHz, the far field in front of waveguide horn antennas is measured for a set of frequencies in various waveguide bands up to 110 GHz.
- DCPx, y: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- Note: As the field is measured with a diode detector sensor, it is warrantied that the probe response is linear (E²) below the documented lowest calibrated value.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- The frequency sensor model parameters are determined prior to calibration based on a frequency sweep (sensor model involving resistors R, R_p, inductance L and capacitors C, C_p).
- Ax,y; Bx,y; Cx,y; Dx,y; VRx,y: 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.
- 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).
- Equivalent Sensor Angle: The two probe sensors are mounted in the same plane at different angles. The angles are
 assessed using the information gained by determining the NORMx (no uncertainty required).
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide / horn setup.

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Parameters of Probe: EUmmWV4 - SN:9486

Basic Calibration Parameters

| | Sensor X | Sensor Y | Unc $(k = 2)$ |
|-------------------------------|----------|----------|---------------|
| Norm (µV/(V/m) ²) | 0.02138 | 0.02377 | ±10.1% |
| DCP (mV) B | 104.0 | 102.0 | ±4.7% |
| Equivalent Sensor Angle | -59.9 | 35.1 | |

Calibration Results for Frequency Response (750 MHz - 110 GHz)

| Frequency GHz | Target E-Field V/m | Deviation Sensor X dB | Deviation Sensor Y dB | Unc (k = 2) dB |
|------------------|--------------------------|--------------------------|--------------------------|-------------------|
| 0.75 | 77.2 | -0.09 | -0.19 | ±0.43 |
| 1.8 | 140.4 | -0.02 | -0.02 | ±0.43 |
| 2.0 | 133.0 | 0.13 | 0.16 | ±0.43 |
| 2.2 | 124.8 | -0.06 | -0.06 | ±0.43 |
| 2.5 | 123.0 | 0.07 | 0.11 | ±0.43 |
| 3.5 | 256,2 | -0.19 | -0.26 | ±0.43 |
| 3.7 | 249.8 | -0.00 | -0.09 | ±0.43 |
| 6.6 | 74.7 | -0.17 | -0.30 | ±0.98 |
| 8.0 | 67.2 | -0.08 | -0.16 | ±0.98 |
| 10.0 | 66.2 | 0.00 | 0.04 | ±0.98 |
| 15.0 | 51.2 | 0.16 | 0.23 | ±0.98 |
| 26.6 | 112.6 | 0.23 | 0.17 | ±0.98 |
| 30.0 | 121,9 | 0.00 | 0.00 | ±0.98 |
| 35.0 | 121.3 | -0.17 | -0.14 | ±0.98 |
| 40.0 | 102.3 | -0.24 | -0.22 | ±0.98 |
| 50.0 | 61.5 | 0.16 | -0.03 | ±0.98 |
| 55.0 | 75.9 | 0.02 | 0.02 | ±0.98 |
| 60.0 | 80.5 | -0.02 | 0.01 | ±0.98 |
| 65.0 | 77.1 | 0.13 | 0.04 | ±0.98 |
| 70.0 | 74.3 | 0.16 | 0.03 | ±0.98 |
| 75.0 | 74.8 | 0.03 | -0.00 | ±0.98 |
| 75.0 | 96.6 | 0.01 | -0.01 | ±0.98 |
| 80.0 | 95.4 | -0.15 | -0.07 | ±0.98 |
| 85.0 | 58.0 | -0.05 | -0.05 | ±0.98 |
| 90.0 | 84.0 | 0.01 | 0.01 | ±0.98 |
| 82.0 | 83.9 | 0.01 | -0.00 | ±0.98 |
| 95.0 | 76.2 | -0.02 | -0.02 | ±0.98 |
| 97.0 | 69,1 | 0.00 | 0.01 | ±0.98 |
| 100.0 | 66.9 | 0.08 | 0.09 | ±0.98 |
| 105.0 | 67.2 | -0.17 | -0.15 | ±0.98 |
| 110.0 | 78.1 | 0.10 | 0.07 | ±0.98 |

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%.

⁸ Linearization parameter uncertainty for maximum specified field strength.

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Parameters of Probe: EUmmWV4 - SN:9486

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | B dBõV | с | D dB | WR mV | Max dev. | Max Unc ^E k = 2 |
|-------|-------------------------------------|---|---------|-----------|-------|----------|----------|-------------|----------------------------------|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 131.4 | ±3.0% | ±4.7% |
| | and the second second second second | Y | 0.00 | 0.00 | 1.00 | | 67.8 | | |
| 10352 | Pulse Waveform (200Hz, 10%) | X | 1.69 | 60.00 | 13.51 | 10.00 | 6.0 | ±1.4% | ±9.6% |
| | | Y | 1.37 | 60.00 | 15.88 | | 6.0 | | |
| 10353 | Pulse Waveform (200Hz, 20%) | X | 4.00 | 70.00 | 15.00 | 6.99 | 12.0 | ±1.0% | ±9.6% |
| | | Y | 0.98 | 60.00 | 14.81 | 121/2010 | 12.0 | 1.277.202 | |
| 10354 | Pulse Waveform (200Hz, 40%) | X | 0.67 | 60.00 | 11.26 | 3.98 | 23.0 | ±1.3% | ±9.6% |
| | | Y | 0.64 | 60.00 | 13.43 | 1949 | 23.0 | 123348 | |
| 10355 | Pulse Waveform (200Hz, 60%) | X | 0.41 | 60.00 | 10.56 | 2.22 | 27.0 | ±1.1% | ±9.6% |
| | | Y | 0.51 | 60.00 | 12.04 | | 27.0 | | |
| 10387 | QPSK Waveform, 1 MHz | X | 1.00 | 60.00 | 11.33 | 1.00 | 22.0 | ±1.8% | ±9.6% |
| | | Y | 1.23 | 60.00 | 11.34 | 10.0000 | 22.0 | | |
| 10388 | QPSK Waveform, 10 MHz | X | 1.26 | 60.00 | 11.64 | 0.00 | 22.0 | ±0.8% | ±9.6% |
| | | Y | 1.54 | 60.00 | 11.47 | 35355 | 22.0 | 120004 | |
| 10396 | 64-QAM Waveform, 100 kHz | X | 1.97 | 61.20 | 14.31 | 3.01 | 17.0 | ±0.6% | ±9.6% |
| | | Y | 2.04 | 60.00 | 13.71 | | 17.0 | | |
| 10399 | 64-QAM Waveform, 40 MHz | X | 2.10 | 60.00 | 12.20 | 0.00 | 19.0 | ±1.1% | ±9.69 |
| | | Y | 2.34 | 60.00 | 12.13 | | 19.0 | | |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz | X | 3.16 | 60.00 | 12.65 | 0.00 | 12.0 | ±0.8% | ±9.69 |
| | | Y | 3.48 | 60.00 | 12.57 | 17.0021 | 12.0 | CONTRACT: | 100000 |

Note: For details on UID parameters see Appendix

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

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Parameters of Probe: EUmmWV4 - SN:9486

Calibration Results for Linearity Response

| Frequency GHz | Target E-Field V/m | Deviation Sensor X dB | Deviation Sensor Y dB | Unc (k = 2) dB |
|------------------|-----------------------|--------------------------|--------------------------|-------------------|
| 0.9 | 50.0 | -0.04 | 0.13 | ±0.2 |
| 0.9 | 100.0 | -0.01 | -0.06 | ±0.2 |
| 0.9 | 500.0 | 0.00 | -0.03 | ±0.2 |
| 0.9 | 1000.0 | 0.02 | -0.01 | ±0.2 |
| 0.9 | 1500.0 | 0.01 | 0.00 | ±0.2 |
| 0.9 | 2100.0 | -0.01 | -0.01 | ±0.2 |

Sensor Frequency Model Parameters (750 MHz - 55 GHz)

| | Sensor X | Sensor Y |
|--------------------|----------|----------|
| Β (Ω) | 65.64 | 49.13 |
| R _p (Ω) | 109.64 | 75.94 |
| L (nH) | 0.07187 | 0.04750 |
| C (pF) | 0.1849 | 0.3546 |
| Cp (pF) | 0.0770 | 0.1127 |

Sensor Frequency Model Parameters (55 GHz - 110 GHz)

| | Sensor X | Sensor Y |
|--------------------|----------|----------|
| R (Ω) | 42,74 | 47.79 |
| R _p (Ω) | 205.46 | 192.11 |
| L (nH) | 0.09749 | 0.08867 |
| C (pF) | 0.0464 | 0.0566 |
| Cp (pF) | 0.0576 | 0.0560 |

Sensor Model Parameters

| | C1 fF | C2 fF | и V ⁻¹ | T1 msV ⁻² | T2 ms V ⁻¹ | T3 ms | T4 V-2 | Τ5 V ⁻¹ | T6 |
|----|----------|----------|----------------------|-------------------------|--------------------------|----------|-----------|-----------------------|------|
| x | 32.4 | 235.84 | 33.74 | 0.92 | 2.82 | 4.99 | 0.00 | 0.79 | 1.01 |
| y. | 34.2 | 248.09 | 33.61 | 0.92 | 2.77 | 5.04 | 0.00 | 1.35 | 1.01 |

Other Probe Parameters

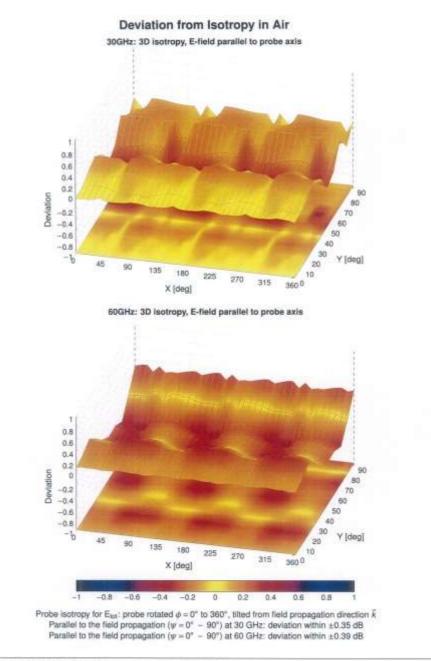
| Sensor Arrangement | Rectangular |
|---|-------------|
| Connector Angle | 89.6* |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 320 mm |
| Probe Body Diameter | 8.mm |
| Tip Length | 23 mm |
| Tip Diameter | 8.0 mm |
| Probe Tip to Sensor X Calibration Point | 1.5 mm |
| Probe Tip to Sensor Y Calibration Point | 1.5 mm |

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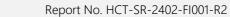
June 19, 2023

Appendix: Modulation Calibration Parameters

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|--------|-----|--|--|----------|----------------------|
| 0. | | CW | CW | 0.00 | 34.7 |
| 0010 | CAB | SAR Validation (Square, 100 ms, 10 ms) | Test | 10.00 | 19.6 |
| 0011 | CAC | UMTS-FDD (WCDMA) | WCDMA | 2.91 | ±9.6 |
| 0012 | CAB | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps) | WLAN | 1.87 | ±9.6 |
| 0013 | CAB | IEEE 802.11g WIF 2.4 GHz (DSSS-OFDM, 6 Mbps) | WLAN | 9.46 | ±9.6 |
| 0.021 | DAC | GSM-FDD (TDMA, GMSK) | GSM | 8.39 | ±9.6 |
| 0.023 | DAG | GPRS-FDD (TDMA, GMSK, TN 0) | GSM | 9.57 | 19.6 |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1) | GSM | 6.55 | ±8.8 |
| 10.025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0) | GŚM | 12.62 | +9.6 |
| 10.026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1) | GSM | 9.55 | ±9.8 |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2) | GSM | 4.90 | ±9.6 |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) | GSM | 3.55 | ±9.6 |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2) | GSM | 7.78 | ±9.6 |
| 10830 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1) | Bluetooth | 5.30 | ±9.6 |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3) | Bluetooth | 1.87 | +0.6 |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5) | Bluetooth | 1.18 | 19.6 |
| 10033 | CAA | EEE 602 15.1 Bluetooth (PI/4-DQPSK, DH1) | Bluetooth | 7.74 | ±9.6 |
| 10034 | CAA | IEEE 802 15.1 Bluetooth (PI/4-DOPSK, DH3) | Bluetooth | 4.53 | ±9.6 |
| | CAA | IEEE 802.15.1 Bluetooth (PW-DQPSK, 0H5) | Bluetooth | 3.83 | ±9.6 |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (POPSK, DH1) | Bluetooth | 8.01 | ±9.6 |
| 10.036 | | | Bluetooth | 4.77 | 19.6 |
| 10037 | CAA | IEEE 602 15.1 Bluetooth (8-OPSK, DH9) | Bluetooth | 4,10 | 19.6 |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5) | the state of the s | | |
| 10039 | CAB | CDMA2000 (1xRTT, RC1) | CDMA2000 | 4,57 | ±9.5 |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PW-DQPSK, Haltrate) | AMPS | 7.78 | ±9.8 |
| 10:044 | GAA | IS-91/EIA/TIA-553 FDD (FDMA, FM) | AMPS | 0.00 | ±9.6 |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Skit, 24) | DECT | 13.80 | ±9.6 |
| 10.049 | CAA | DECT (TDD, TDMA/FOM, GFSK, Double Slot, 12) | DECT | 10.79 | 19.6 |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mope) | TD-SCDMA | 11.01 | ±9.6 |
| 10058 | DAC | EDGE FDD (TDMA, SPSK, TN 0-1-2-3) | GSM | 6.52 | ±9.8 |
| 10059 | CAB | IEEE (02.116 WFI 2.4 GHz (DSSS, 2 Mbps) | WLAN | 2.12 | ±9.8 |
| 10060 | CAB | IEEE 802.11b WFi 2.4 GHz (DSSS, 5.5 Mbps) | WLAN | 2.83 | ±9.6 |
| 10061 | CAB | IEEE 802.116 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 |
| 10064 | CAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps) | WLAN | 9.09 | 19.6 |
| 10065 | CAD | IEEE 802.11a/h WIFI 5-GHz (OFDM, 18 Mops) | WLAN | 9.00 | ±9.6 |
| 10066 | CAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps) | WLAN | 9.38 | ±9.0 |
| 10067 | CAD | IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps) | WLAN | 10.12 | +9.6 |
| 10068 | CAD | IEEE 802.11a/t WIFI 5 GHz (OFDM, 48 Mbps) | WLAN | 10.24 | ±9.6 |
| 10089 | CAD | IEEE 802.11a/h WIFI S GHz (OFDM, 54 Mbps) | WLAN | 10.56 | 1.9.6 |
| 10071 | CAB | IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 9 Mbps) | WLAN | 9.83 | 19.6 |
| 10072 | CAB | IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 12 Mbps) | WLAN | 9.62 | ±9.6 |
| 10073 | CAB | IEEE 802.11g WIFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | WLAN | 0.94 | ±9.6 |
| 10074 | CAB | IEEE 802,11g WFI 2,4 GHz (DSSS/OFOM, 24 Mbps) | WLAN | 10.30 | 19.6 |
| 10075 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 36 Mbps) | WLAN | 10.77 | ±9.6 |
| 10076 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps) | WLAN | 10.94 | :9.6 |
| 10077 | CAB | IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps) | WLAN | 11.00 | ±9.6 |
| 10081 | CAB | CDMA2000 (1xRTT, BC3) | COMA2000 | 3.97 | ±9.6 |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PV4-DQPSK, Fullrate) | AMPS | 4.77 | ±9.6 |
| 10090 | DAC | GPRS-FOD (TOMA, GMSK, TN 0-4) | GSM | 8.58 | ±9.6 |
| 10097 | CAC | UMTS-FDD (HSDPA) | WCDMA | 3.98 | 29.6 |
| 10098 | CAC | UMTS-FDD (HSUPA, Subleet 2) | WCDMA | 3.98 | 28.6 |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4) | GSM | 9.55 | 19.6 |
| 10100 | CAF | LTE-FDD (SC-FDMA, 100% R8, 20 MHz, GPSK) | LTE-FDD | 6.67 | 19.6 |
| 10101 | | LTE-FDD (SC-FDMA, 100% R8, 20 MHz, GPSK) LTE-FDD (SC-FDMA, 100% R8, 20 MHz, 16-QAM) | LTE-FDD | | |
| 10101 | CAF | LTE-FDD (SC-FDMA, 1005 RB, 20MHz, 19-GAM) | LTE-FDD | 8.42 | ±9.6 |
| | | | 1 21 10 10 10 | | 19.6 |
| 10103 | | LTE-TDD (SC-FDMA, 100% R8, 20 MHz, QPSK) | LTE-TOD | 8.29 | ±9.6 |
| 10104 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM) | LTE-TDD | 9.97 | ±9.6 |
| 10105 | CAH | LTE-TOD (SC-FDMA, 100% RB, 20MHz, 64-QAM) | LTE-TDD | 10.01 | ±9.6 |
| 10,108 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-FDD | 5.80 | ±9.6 |
| 10109 | CAH | LTE-FDD (SC-FDMA, 100% R8, 10MHz, 16-QAM) | LTE-FDD | 8.43 | ±9.8 |
| 10110 | CAH | LTE-FDD (SC-FDMA, 100% R8, 5MHz, QPSK) | LTE-FDD | 8.75 | 19.6 |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM) | LTE-FDD | 6.44 | ±9.6 |

Certificate No: EUmm-9486_Jun23

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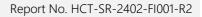
June 19, 2023

| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|-------------------|--|--|----------|----------|----------------------|
| 0112 | CAH | LTE-FDD (SC-FDMA, 100% R8, 10 MHz, 64-GAM) | LTE-FDD | 6.50 | ±9.6 |
| 0113 | CAH | LTE-FDD (SC-FDMA, 100% R8, 5 MHz, 64-QAM) | LTE-FDD | 6.62 | 19.6 |
| 0114 | CAD | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) | WLAN | 8.10 | :9.5 |
| 0115 | CAD | IEEE 802.11n (HT Greenfield, 81 Mbps, 15-GAM) | WLAN | 8.48 | ±9.6 |
| 0116 | CAD | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-GAM) | WEAN | 8.15 | 19.8 |
| 0117 | CAD | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) | WLAN | 8.07 | ±9.6 |
| 0118 | CAD | IEEE 802.11n (HT Mixed, 81 Mbos, 16-GAM) | WLAN | 8.59 | ±9.6 |
| 10118 | CAD | IEEE 802.11n (HT Mixed, 135 Mbps, 16-QAM) | WLAN | 8.13 | 19.6 |
| | CAF | | LTE-FDD | 6.49 | 19.6 |
| 10140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM) | | | |
| 10:141 | and the second s | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) | LTE-F00 | 5.83 | ±9.6 |
| 10142 | CAF | LTE-FDD (SC-FDMA, 100% AB, 3 MHz, QPSK) | LTE-FOD | 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 |
| 10145 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | LTE-FOO | 6.41 | ±9.6 |
| 10147 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | LTE-FDD | 8.72 | ±9.6 |
| 10149 | CAF | LTE-FDD (SC-FDMA, 50% R8, 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-TOD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-TOD | 9.28 | ±9.6 |
| 10152 | CAH | LTE-TOD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) | LTE-TOD | 9.92 | ±9.6 |
| 10153 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) | LTE-TOD | 10:05 | ±9.6 |
| 10.154 | CAH | LTE-FOD (SC-FOMA, 50% RB, 10MHz, OPSK) | LTE-FDD | 5.75 | :9.6 |
| 10155 | CAH | LTE-FOD (SC-FOMA, 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-FOD (SC-FOMA 50% RB 5 MHz, 16-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10158 | CAH | LTE-FOD (SC-FOMA, 50% RB, 10 MHz, 64-QAM) | LTE-FDD | 6.62 | ±9.6 |
| 10156 | CAH | LTE-FOD (SC-FOMA, 50% RB, 5 MHz, 64-QAM) | LTE-FDD | 6.56 | ±9.6 |
| | CAF | LTE-FOD (SC-FOMA, 50% RB, 15 MHz, GPSK) | TIT COME | 5.82 | 1 |
| 10160 | 1000 | | LTE-FDD | | ±9:6 |
| 10161 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) | LTE-FDD | 6.43 | ±9.6 |
| 10162 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-GAM) | LTE-FOD | 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 R8, 20 MHz, QPSK) | LTE-FBD | 5.73 | 19.6 |
| 10170 | CAF | LTE-FDD (SC-FDMA, 1 H8, 20 MHz, 16-QAM) | LTE-FOD | 6.52 | ±9.6 |
| 10171 | AAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-FDD | 6.49 | ±9.6 |
| 10172 | CAH | LTE-TDD (SC-FDMA, 1 RE, 20 MHz, QPSK) | LTE-TDO | 9.21 | ±9.8 |
| 10173 | CAH | LTE-TDD (SC-FDMA, 1 R8, 20 MHz, 16-QAM) | LTE-TDO | 9.48 | ±9.6 |
| 10174 | CAH | LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.8 |
| 10175 | CAH | LTE-FDD (SC-FDMA, 1 R8, 10MHz, QPSK) | LTE-FDD | 5.72 | ±9.6 |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM) | LTE-FDD | 6.52 | ±9.6 |
| 10177 | CAJ | LTE-FDD (SC-FDMA, 1 RR, 5 MHz, QPSK) | LTE-FDO | 5.73 | ±9.6 |
| 10178 | CAH | LTE-FOD (SC-FDMA, 1 RB, 5MHz, 16 QAM) | LTE-FDD | 6.52 | 19.6 |
| 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, 51MHz, 64-QAM) | LTE-FDD | 6.50 | ±9.6 |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK) | LTE-FDD | 5.72 | 19.6 |
| 10182 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 18-OAM) | LTE-FOD | 6.52 | 19.6 |
| 10183 | AAE | LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM) | LTE-FOD | 6.50 | 19.6 |
| 10185 | CAF | LTE-FOD (SC-FDMA, 1 RB, 3MHz, QPSK) | LTE-FDD | 5.73 | |
| 10185 | CAF | LTE-FOD (SC-FDMA, 1 RB, 3 MHz, 0PSK) | LTE-FDD | 5.73 | ±9.6 |
| 10185 | AAF | | | | 19.6 |
| man shall be been | | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) | LTE-FDO | 6,50 | ±9.6 |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) | LTE-FOD | 5.73 | ±9.6 |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-FOD | 6.52 | 19.6 |
| 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 | 19.6 |
| 10194 | CAD | JEEE 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. | 0.21 | ±9.6 |
| 10196 | CAD | IEEE 802.11n (HT Mored, 6.5 Mbps, BPSK) | WLAN | 8.10 | 39.6 |
| 10197 | CAD | IEEE 802.11n (HT Mixed, 38 Mbps, 16-QAM) | WLAN | 8.13 | 19.6 |
| 10198 | CAD | 1EEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) | WLAN | 0.27 | 19.6 |
| 10219 | CAD | JEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) | WLAN | 8.03 | 19.6 |
| 10228 | 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 | ±9.0 |
| 10222 | CAD | IEEE 802.11n (HT Mixed, 15 Mbps, 8PSK) | WLAN | 8.06 | 19.6 |
| 10223 | CAD | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) | WLAN | 8.48 | 19.6 |
| | | There is a second of the first state of the second state of the se | TYLINY | 0.40 | 19.6 |

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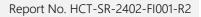


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| UND | Rev | Communication System Name | Group | PAR (dB) | Unc [®] k ≈ |
|--------|--|---|----------|----------|---|
| 10.225 | CAC | UMTS-FDD (HSPA+) | WCDMA | 5.97 | ±9.6 |
| 10.226 | CAC | LTE-TOD (SC-FOMA, 1 RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.49 | ±9.6 |
| 0227 | CAC | LTE-TDD (SC-FOMA, 1 RB, 1,4 MHz, 64-QAM) | LTE-TDD | 10.26 | ±9.6 |
| 10228 | CAC | LTE-TOD (SC-FOMA, 1 RB, 1,4 MHz, QPSK) | LTE-TDD | 9.22 | ±9.6 |
| 10229 | CAE | LTE-TOD (SC-FOMA, 1 RB, 3 MHz, 18-QAM) | LTE-TDD | 0.48 | 19.8 |
| 0230 | CAE | LTE-TOD (SC-FOMA, 1 RB, 3 MHz, 64-QAM) | LTE-TDD | 10.25 | +9.6 |
| 10231 | CAE | LTE-TDD (SC-FOMA, 1 FIB, 3 MHz, QPSK) | LTE-TDD | 9.19 | ±9.6 |
| 10232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM) | LTE-TDD | 9.48 | ±9.6 |
| 0233 | CAH | LTE TOD (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 |
| 0235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) | LTE-TOD | 9.48 | ±9.6 |
| 0236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 0237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK) | LTE-TDD | 9,21 | ±9.6 |
| 0.238 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM) | LTE-TDD | 9.45 | ±9.6 |
| 0.239 | CAG | LTE-TDD (SC-FDMA, 1 FIB, 15 MHz, 64-QAM) | LTE-TDD | 10.25 | ±9.6 |
| 0.246 | CAG | LTE-TOD (SC-FDMA, 1 RB, 15 MHz, OPSK) | LTE-TDD | 9.21 | ±9.6 |
| 0.241 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | LTE-TDD | 9.82 | 19.6 |
| 0242 | CAC | LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | LTE-TDD | 9.86 | |
| | | | | 2122 | 3.61 |
| 0243 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) | LTE-TDD | 9.45 | ±9.6 |
| 0244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) | LTE-TOD | 10.06 | ±9.6 |
| 0245 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) | LTE-TDD | 10.06 | ±9.6 |
| 10246 | CAE | LTE-TOD (SC-FDMA, 50% RB, 3 MHz, QPSK) | LTE-TDO | 9.30 | ±9.6 |
| 10247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM) | LTE-TDD | 9.91 | ±9.6 |
| 10248 | CAR | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 84-QAM) | LTE-TDO | 10.09 | ±9.6 |
| 10249 | CAH | LTE-TDD (SC-FDMA, 56% RB, 5 MHz, GPSK) | LTE-TDD | 9.29 | ±9.6 |
| 10250 | CAH | LTE-TDD (SC-FDMA, S0% RB, 10 MHz, 16-QAM) | LTE-TDD | 9.B1 | ±9.6 |
| 10,251 | 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, GPSK) | LTE-TDD | 9.24 | ±9.8 |
| 0253 | CAG | LTE-TDO (SC-FDMA, 50% RB, 15 MHz, 16 QAM) | LTE-TDD | 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 | GAC | LTE-TDD (SC-FOMA, 100% RB, 1.4 MHz, 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, 1.4 MHz, QPSK) | LTE-TDD | 9.34 | ±9.6 |
| 10258 | CAE | LTE-TDD (SC-FDMA, 100% FIB, 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 | ±9.8 |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, OPSK) | LTE-TDD | 9.24 | 19.6 |
| 10262 | CAH | LTE-TOD (SC-FDMA, 100% RB, 5MHz, 16-QAM) | LTE-TDD | 9.83 | +9.6 |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, SMHz, 64-QAM) | LTE-TDD | 10.16 | ±9.0 |
| 10264 | CAH | LTE-TOD (SC-FDMA, 100% RB, 5 MHz, QPSK) | LTE-TDD | 9.23 | ±9.6 |
| 10.265 | CAH | LTE-TDD (5C-FDMA, 100% RB, 10MHz, 16-QAM) | LTE-TOD | 9.92 | ±9.6 |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% FIB. 10 MHz, 64-QAM) | LTE-TDD | 10.07 | ±8.6 |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) | LTE-TDD | 9.30 | 10.0 |
| 10268 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) | LTE-TDD | 10.06 | ±9.6 |
| 10.269 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 84-QAM) | LTE-TDD | 10.33 | and the second se |
| 10270 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 0PSK) | | | ±9.6 |
| 10270 | CAC | UMTS-FD0 (HSUPA, Subtest 5, 3GPP Rel8.10) | LTE-TDD | 9.56 | ±9.6 |
| 0.275 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) | WCDMA | 4.87 | ±9.8 |
| 10275 | CAA | PHS (OPSK) | WCDMA, | 3.96 | 19.6 |
| | 1. | | 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 |
| 0290 | AAB | CDMA2000, RC1, SQ55, Full Rate | CDMA2006 | 3.91 | ±9.6 |
| 10291 | AAB | COMA2600, RC3, SO55, Full Rate | CDMA2000 | 3.46 | ±9.6 |
| 10292 | AAB | COMA2000, RC3, SO32, Full Rate | CDMA2000 | 3.39 | ±9.6 |
| 0293 | BAA | CDMA2000, RC3, SO3, Full Rate | CDMA2000 | 3.50 | ±9.6 |
| 0295 | AAB | COMA2000, RC1, SO3, 1/8th Rate 25 /r. | CDMA2000 | 12,49 | ±9.8 |
| 0297 | AAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) | LTE-FDD | 5,81 | ±9,6 |
| 0298 | AAE | LTE-FDD (SC-FDMA, 50% R8, 3MHz, QPSK) | LTE-FDD | 5.72 | ±9.6 |
| 0299 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3MHz, 18-QAM) | LTE-FDD | 6,39 | ±9.6 |
| 10300 | AAE | LTE-FD0 (SC-FDMA, 50% RB, 3MHz, 64-QAM) | LTE-FDD | 8.60 | ±9.6 |
| 10301 | AAA | IEEE 802.16e WIMAX (29:18, Sms. 10 MHz, QPSK, PUSC) | WIMAX | 12.03 | ±9.6 |
| 0302 | AAA | IEEE 802.16e WIMAX (29:18, 5ms, 10 MHz, QPSK, PUSC, 3 CTAL symbols) | WIMAX | 12.57 | 19.6 |
| 0303 | 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 |
| 10305 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols) | WIMAX | 14.67 | 19.6 |

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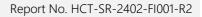


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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|-------|-----------------------|--|---|-------------|----------------------|
| 0307 | AAA | IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols) | WMAX | 14.49 | ±9.6 |
| 0308 | AAA. | IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC) | WMAX | 14.46 | 8.CE |
| 0309 | AAA | IEEE 802 16e WIMAX (29:18, 10 ma, 10 MHz, 16QAM, AMC 2x3, 18 symbols) | WMAX | 14.58 | ±9.6 |
| 0310 | AAA. | IEEE 802 16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols) | WMAX | 14.57 | ±9.6 |
| 0311 | AAE | LTE-FOD (SC-FDMA, 100% R8, 15MHz, QPSK) | LTE-FOO | 6.06 | 2.9.6 |
| 0313 | AAA | IDEN 13 | IDEN | 10.61 | ±9.6 |
| 0314 | AAA | DEN 1:6 | IDEN. | 13.48 | ±9.6 |
| 0315 | AAB | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 96pt duty cycle) | WLAN | 1.71 | 29.6 |
| 0316 | AAB | IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 0317 | AAD | IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 0.352 | AAA | Polse Waveform (200Hz, 10%) | Generic | 10.00 | 19.6 |
| 0.353 | AAA | Pulse Waveform (200Hz, 20%) | Generic | 5.99 | 19.6 |
| 0354 | AAA | Pulse Waveform (200Hz, 40%) | Generic | 3.98 | ±9.6 |
| 0.355 | AAA | Pulse Waveform (200Hz, 60%) | Generic | 0.22 | 19.6 |
| 0.356 | AAA | Pulse Waveform (200Hz, 80%) | Generic | 0.97 | 19.6 |
| 0387 | AAA | OPSK Wavelorm, 1 MHz | | | +9.6 |
| 0368 | AAA | QPSK Waveform, 10 MHz | Generic | 5.10 | |
| 0396 | AAA | | Generic | | ±9.6 |
| | and the second second | 64-QAM Waveform, 100 kHz | Generic | 1.27 | ±9.6 |
| 0.399 | AAA | 64-CAM Waveform, 40 MHz | Generic | 6.27 | ±9.6 |
| 0400 | AAE | IEEE 802.11ac WIFI (20 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.37 | ±9.0 |
| 0401 | AAE | IEEE 802 11ac WIFi (40 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.60 | ±9.6 |
| 0.402 | AAE | IEEE 802.11ac WIFI (88 MHz, 64-QAM, 99pc duty cycle) | WLAN | 8.53 | ±8.8 |
| 0.403 | AAB | COMA2000 (1xEV-DO, Rev. 0) | CDMA2000 | 9.76 | - ±9.6 |
| 0404 | AAB | CDMA2000 (1xEV-DO, Rev. A) | CDMA2000 | 3.77 | \$0.6 |
| 0.406 | AAB | COMA2000, RC3, SCG2, SCH0, Full Rate | CDMA2000 | 5.22 | ±9.6 |
| 10410 | AAH | LTE-TOD (SC-FOMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conte-4) | LTE-TDD | 7.82 | ±9.6 |
| 6414 | AAA | WLAN CCDF, 64-QAM, 40 MHz | Generic | 8.54 | ±9.6 |
| 0415 | AAA | IEEE 602.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle) | WLAN | 1.54 | ±9.6 |
| 0416 | AAA. | IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle) | WLAN | 8.23 | 19.8 |
| 0417 | AAC. | IEEE 802.11a/h WIFi 5 GHz (OFDM, 6 Mbos, 99pc duty cycle) | WLAN | 8.23 | 19.6 |
| 0418 | AAA: | IEEE 602.11g WFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule) | WLAN | 8.14 | ±9.6 |
| 0419 | AAA | IEEE 802.11g WFi 2.4 GHz (DSSS-OFDM, 6 Mops, 99pc duty cycle, Short preambule) | WLAN | 8,19 | ±9.6 |
| 0422 | AAC | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) | WLAN | 8.32 | +9.6 |
| 0.423 | AAC | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) | WLAN | 8.47 | ±9.6 |
| 0424 | AAC | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) | WLAN | 8.40 | ±9.6 |
| 0.425 | AAC | EEE 802.11n (HT Greenfield, 15 Mbps, BPSK) | WLAN . | 8.41 | 19.6 |
| 10426 | AAC | EEE 802.11n 01T Greenfield, 90 Mbps, 18-QAM) | WLAN | 8.45 | ±9.6 |
| 0.427 | AAC | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) | WLAN | 8.41 | 19.6 |
| 10430 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) | LTE-FDD | 8.28 | 19.6 ±9.6 |
| 0431 | AAE | LTE-FOD (OFDMA, 10MHz, E-TM 3.1) | LTE-FDD | 8.38 | |
| 0432 | AAD | LTE-FOD (OFDMA, 15MHz, E-TM 3.1) | LTE-FDD | | 19.0 |
| 0433 | AAD | LTE-FDD (OFDMA, 20MHz, E-TM 3.1) | and the second se | 8.34 | ±9.6 |
| 0435 | AAB | W-CDMA (BS Test Model 1, 64 DPCH) | LTE-FDD | 8.34 | ±9.6 |
| 0435 | AAQ | | WCDMA. | 8.60 | ±9.6 |
| | | LTE-TOD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9,6 |
| 0.447 | AAE | LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7.56 | ±9.6 |
| 0448 | AAE | LTE-FDO (OFDMA, 10MHz, E-TM 3.1, Clippin 44%) | LTE-FDD | 7.53 | ±9.6 |
| 6449 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%) | LTE-FOD | 7.51 | ±9.6 |
| 0450 | AAD | LTE-FDD (OFDWA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-FDD | 7,48 | ±9.6 |
| 0.451 | AAB | W-COMA (BS Test Model 1, 64 DPCH, Clipping 44%) | WCDMA | 7.59 | ±9.6 |
| 0453 | AAE | Validation (Square, 10 mil, 1 mil) | Test | 10.00 | 1,9.6 |
| 0.456 | AAC | IEEE 802.11ac WIFi (160 MHz, 64-QAM, 98pc duty cycle) | WLAN | 8.63 | ±8.6 |
| 0.457 | AAB | UMTS-FDD (DC-HSOPA) | WCDMA | 8.62 | ±9.6 |
| 0.458 | AAA. | CDMA2000 (1xEV-DO, Rev. 8, 2 carriers) | CDMA2000 | 6.55 | ±0.6 |
| 0.458 | AAA | CDMA2000 (txEV-DO, Rev. B, 3 certiera) | CDMA2000 | 8.25 | ±9.6 |
| 0460 | AAB | UMTS-EDD (WCDMA, AMR) | WCDMA | 2.39 | 19.6 |
| 0.461 | AAC | LTE-TDD (SC-FDMA, 1 Fi8, 1.4 MHz, QPSK, UL Subframe+2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9.6 |
| 0.462 | AAC | LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2.3.4.7,8.9) | LTE-TDD | 8.30 | ±9.6 |
| 0.463 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 54-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.56 | 10.6 |
| 0.464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UK, Subframe=2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9.6 |
| 0465 | AAD | LTE-TOD (SC-FDMA, 1 RB, 3MHz, 15-QAM, UL Subhame=2.3,4,7.8,9) | LTE-TDD | 8.32 | ±0.0 ±0.6 |
| 0466 | AAD | LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.67 | 19.0 |
| 0467 | AAG | LTE-TUD (SC-FUMA, 1 RB, SMHz, OPSK, UL Subhamev2,3,4,7,8,9) | LTE-TOD | 7.82 | ±9.6 |
| 0468 | AAG | LTE-TDD (SC-FDMA, 1 RB, SMHz, 16-DAM, UL Subframe=2,3,4,7,8,9) | LTE-TOO | 8.32 | |
| 0468 | AAG | LTE-TOD (SC-FDMA, 1 HB, SMHz, 18-QAW, UL Subhamev2,3,4,7,8,9) LTE-TOD (SC-FDMA, 1 RB, SMHz, 64-QAM, UL Subhamev2,3,4,7,8,9) | | | 19.6 |
| 0469 | AAG | | LTE-TOD | 8.56 | ±9.6 |
| | 1.0.000 | LTE-TOD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subhame=2,3,4,7,8,9) | LTE-TOO | 7.82 | 29.6 |
| 0471 | AAG | LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.32 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^H k = |
|--------|--|--|---------|----------|----------------------|
| 0472 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subliane=2.3,4,7,8,0) | LTE-TDD | 8.57 | ±9.6 |
| 0473 | AAF | LTE-TOD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.82 | ±9.6 |
| 0474 | AAF | LTE-TOD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9) | LTE-TDD | 8.32 | ±9.6 |
| 0.475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Subtrame=2,3,4,7,8,9) | LTE-TDD | 8.57 | +9.6 |
| 0477 | AAG | LTE-TDD (SC-FDMA, 1 RB. 20 MHz, 16-QAM, LL. Subframe=2,3,4,7,8,9) | LTE-TDD | 8.32 | +9.6 |
| 0478 | AAG | LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.57 | 19.6 |
| 0479 | AAC | LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2.3.4,7.8.9) | LTE-TDD | 7.74 | 19.6 |
| 0.480 | AAC | LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2.3,4,7.8.9) | LTE-TOD | 8.18 | 19.6 |
| 0481 | AAC | LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subhama-2.3,4,7,8,9) | LTE-TDD | 8.45 | ±9.6 |
| 0482 | AAD | LTE-TOD (SC-FDMA, 50% RB, 114 MHz, OP-GMA, OC Subhamara, 3,4,7,6,9) | LTE-TDD | 7.71 | ±9.0 ±9.6 |
| | AAD | | LTE-TDD | 8.39 | |
| 0483 | | LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 16-GAM, UL Subtrame+2,3,4,7,8,9) | | | 5.8± |
| 0484 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe+2,3,4,7,8,9) | LTE-TDD | 8.47 | ±9/8 |
| 0.485 | AAG | | LTE-TDD | 7,59 | ±9.6 |
| 0486 | 1. | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3.4,7,8,9) | | 8.38 | ±9.6 |
| 0.487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.60 | ±9.8 |
| 0.488 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2.3,4,7,8,9) | LTE-TOD | 7.70 | ±9.6 |
| 0489 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.31 | ±9.6 |
| 0490 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | ±9.6 |
| 0491 | AAF | LTE-TDD (SC-FDMA, 50% R8, 15 MHz, QPSK, UL Subhame=2,3,4,7,8,9) | LTE-TDO | 7.76 | ±9.6 |
| 0.492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM, UL Subhame=2,3,4,7,8,9) | LTE-TOD | 8.41 | ±9.6 |
| 10.493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe+2,3,4,7,8,9) | L7E-TDO | 8.55 | ±9.6 |
| 10494 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subhame=2,3,4,7,8,9) | LTE-TDO | 2.74 | ±9.6 |
| 10495 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sublvame=2.3,4,7,8,9) | LTE-TDD | 8.37 | ±9.6 |
| 10496 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TOD | 8.54 | ±9.6 |
| 10497 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe-(2.3,4,7.8,9) | LTE-TDD | 7.67 | $0.0 \pm$ |
| 10498 | AAC | LTE-TDD (SC-FDMA, 100% R8, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.40 | ±9.6 |
| 10499 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz; 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.68 | ±9.6 |
| 10500 | AAD. | LTE-TOD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2.3.4.7.8.9) | LTE-TDD | 7.67 | ±9.6 |
| 10.501 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subhame=2.3.4.7.8.9) | LTE-TOD | 8.44 | ±9.6 |
| 10502 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subfame=23,4,7.8,9) | LTE-TDD | 8.52 | ±0.6 |
| 10503 | AAG | LTE-TOD (SC-FDMA, 100% RB, 5 MHz, OPSK, UL Subtrame-2,3,4,7,8,9) | LTE-TDD | 7.72 | ±9.6 |
| 10504 | AAG | LTE-TOD (SC-FOMA, 100% RB, 5MHz, 16-QAM, UL Subhamev2.3.4.7.8.9) | LTE-TDD | 8.31 | ±9.6 |
| 10505 | AAG | LTE-TOD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.54 | 19.6 |
| 10508 | AAG | LTE-TOD (SC-FDMA, 100% RB, 10MHz, 0PSK, UL Subhame=2,3,4,7,8,9) | | 7.74 | |
| 10507 | AAG | | LTE-TOD | | ±9.6 |
| 10508 | AAG | LTE-TDO (SC FDMA, 100% RB, 10MHz, 16-OAM, UL Subtrame+2,3,4,7,8,9) | LTE-TDD | 8.36 | ±0.6 |
| | 1.127.226 | LTE-TOD (SC-FDMA, 100% RB, 10MHz, 64-QAM, UL Subframe-2,3,4,7,8,9) | LTE-TDD | | ±9,6 |
| 10509 | | LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UE Bubhame=2,3,4,7,8,9) | LTE-TDD | 7.99 | ±9.8 |
| 10510 | AAF | LTE-TOD (SC-FDMA, 100% RB, 15MHz, 16-GAM, UL Subhame=2,3,4,7,8,9) | LTE-TDD | 8.49 | ±9.6 |
| 10511 | AAF | LTE-TOD (SC-FDMA, 100% RB, 15MHz, 84-QAM, UL Subhame=2,3,4,7,8,9) | LTE-TDD | 8.51 | ±9.6 |
| 10512 | AAG | LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 7.74 | ±9.6 |
| 10513 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 18-QAM, UL Sublame=2,3,4,7,8,9) | LTE-TDD | 县,42 | ±9.6 |
| 10514 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.45 | ±9.6 |
| 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 | ±9.5 |
| 10517 | A,A,A | IEEE (02.11b WIF) 2.4 GHz (DSSS, 11 Mbps; 99pc duty cycle) | WLAN | 1.58 | ±9.6 |
| 10518 | AAC | IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 98pc duty cycle) | WLAN | 8.23 | ±9.6 |
| 10510 | AAC | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8.09 | ±9.6 |
| 10520 | AAC | IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 88pc duty cycle) | WLAN | 8.12 | ±9.5 |
| 10521 | AAC | IEEE 802 11a/h WIFI 5 GHz (OFDM, 24 Mbps, 98pc duty cycle) | WLAN | 7.97 | ±0.0 |
| 10522 | AAC | IEEE 802.11a/h WIFI 5 GHz (OFDM: 36 Mbps, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10523 | and the second second | IEEE 802 11a/h WIFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8.08 | ±9.6 |
| 10524 | | IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99oc duty cycle) | WLAN | 8.27 | ±9.6 |
| 10525 | AAC | REE 802.11ac WF1 (20 MHz, MCS0, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10526 | AAC | EEE 802.11ac WFI (20 MHz, MCSU, tripe duty cycle) | WEAN | 8.42 | |
| 10527 | AAC | EEE 802.11ac WFI (20 MHz, MCS), trape duty cycle) EEE 802.11ac WFI (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8,21 | ±9.6 |
| 10528 | AAC | EEE 802.11ac WFI (20 MHz, MCSa, 99pc duty cycle) EEE 802.11ac WFI (20 MHz, MCS3, 99pc duty cycle) | | | ±9.6 |
| 10528 | AAC | | WLAN | 8,36 | ±9,6 |
| | the second second | IEEE 802.11ac WFI (20 MHz, MCS4, 99pc duty cycle) | WLAN | 8.36 | ±9.6 |
| 10531 | AAC | IEEE 802.11ao WFI (20 MHz, MCS6, 99pc duty cycle) | WLAN | 8.43 | ±9.6 |
| 10532 | AAC | IEEE 802.11as WIFI (20 MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 10533 | AAC | IEEE 802.11ac WIFI (20 MHz, MCS8, Mips duty cycle) | WEAN | 8.38 | ±9.6 |
| 10534 | AAC | IEEE 802.11ac WIFI (40 MHz, MCSG, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10535 | AAC | IEEE 802.11ac WFi (40 MHz, MCS1, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 10538 | AAC | IEEE 802.11ao 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, 90pc duty cycle) | WLAN | 8.54 | ±9.6 |
| 10540 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS6, 96pc duty cycle) | WLAN | 8.39 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc [®] K = |
|-----------|-----------|--|-------|----------|----------------------|
| 10541 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS7, 9Rpc duty cycle) | WLAN | 8.46 | ±9.6 |
| 10542 | AAC | IEEE 802.11ac WIFi (40 MHz, MCS8, 99pc duty cycle) | WLAN | 8.65 | 19.6 |
| 10543 | 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 |
| 0545 | AAC | IEEE 802-11as WIFI (80 MHz, MCS1, 98pc duty cycle) | WLAN | 8.55 | 19.6 |
| 0546 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS2, 98pc duty cycle) | WLAN | | |
| 10547 | AAC | | | 8.35 | ±9.6 |
| | | IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle) | WLAN | 8,49 | ±9.6 |
| 0548 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS4, 99pc duty cycle) | WLAN | 8.37 | ±9,6 |
| 0550 | AAC. | IEEE 802.11ac WiFi (80 MHz, MCS6, 89pc duty cycle) | WLAN | 8.38 | ±9.6 |
| 0551 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS7, 09pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 0552 | AAC | IEEE 802.11ac WIFi (80 MHz, MCS8, 99pc duty cycle) | WLAN | 8.42 | ±9.6 |
| 0553 | AAC | IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 0554 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle) | WLAN | 8.48 | ±9.6 |
| 0555 | AAD | IEEE 802.11ac WIFI (160 MHz, MCS1, 99pc duty cycle) | WLAN. | 8.47 | ±9.6 |
| 0556 | AAQ | IEEE 802.11ac WIFI (160 MHz, MCS2, 98pc duty cycle) | WLAN | 8.50 | ±9.6 |
| 0557 | AAO | IEEE 802.11ac WFI (160 MHz, MCSS, 99pc duty cycle) | WLAN | 8.52 | ±9.6 |
| 0558 | AAD. | IEEE 802.11ac WFI (160 MHz, MCS4, 99pc duty cycle) | WLAN | 8.61 | ±9.6 |
| 0560 | AAD | IEEE 802.11 ac WFI (160 MHz, MCS6, 98pc duty cycle) | WLAN | 8.73 | 19.6 |
| 0561 | AAO | IEEE 802.11ac WFI (160 MHz, MCS7, 99pc duty cycle) | WEAN | 8.56 | ±9.6 |
| 0562 | AAD | IEEE 802.11ac WFI (160 MHz, MCS8, 99pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 0.563 | AAD | IEEE 802 11ac WFI (160 MHz; MCS9, 99pc duty cycle) | WLAN | 8:77 | 19.6 |
| 0.564 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFOM, 9 Mbps, 99pc duty cycle) | WEAN | 8.25 | 19.6 |
| 0.565 | AAA | EEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN | 8,45 | 19.6 |
| 0.588 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFOM, 16 Mbps, 89pc duty cycle) | WLAN | 8.13 | 19.6 |
| 0.567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFOM, 24 Mbps, 99pc duty cycle) | WLAN | 8.00 | 19.6 |
| 0568 | AAA | IEEE 802 11g WH 2.4 GHz (DSSS-OF DW, cHadps, 5900 duty cycle) | WLAN | | |
| 10.569 | AAA | | | 8.37 | ±9.6 |
| | | IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN | 8,10 | ±9.6 |
| 10.570 | AAA | IEEE 802.11g WPI 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN | 8.30 | ±9.6 |
| 10:571 | AAA | IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) | WLAN | 1.99 | 19.6 |
| 0572 | AAA | IEEE 802.11b WIFI 2.4 GHz (DBSS, 2 Mbps, 90pc duty cycle) | WLAN | 1.99 | ±9.6 |
| 10573 | AAA, | IEEE 802.11b WIFI Z.4 GHz (DSSS, 5.5 Mops, 90pc duty cycle) | WEAN | 1.98 | 19.6 |
| 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-OFOM, 9 Mbps, 90pc duty cycle) | WLAN | 8:60 | ±9.8 |
| 10577 | AAA. | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFOM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10/578 | AAA, | IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 10.579 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | 19.6 |
| 10.580 | AAA: | IEEE 802 11g WIFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN | 8.76 | 19.6 |
| 10581 | AAA | IEEE 802.11g WIFI 2.4 GHz (DSSS-OFOM, 48 Mbps, 90pc duty cycle) | WLAN | 0.35 | 19.6 |
| 10.582 | AAA. | IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN | 8.67 | 19.6 |
| 10.583 | AAG | IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mops, 90pc duty cycle) | WLAN | 8.59 | 19.6 |
| 0.584 | AAC. | IEEE 802.11a/h WIFI 5 OHz (OFDM, 9 Mbps, 90pc duty cycle) | WLAN | 8.50 | +9.6 |
| 0.585 | AAC | IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc duty cycle) | WLAN | 8.70 | ±9.6 |
| 10586 | AAC | IEEE 802 11 a/n WIFI 5 GHz (OFDM, 18 Mbps, 90pc duty cycle) | WLAN | 8.49 | 19.6 |
| 10587 | AAC | IEEE 802.11 am WIFI 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) | WLAN | 8.36 | 19.6 |
| 0588 | AAC | IEEE 902.11 a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) | WLAN | | |
| 10589 | AAC | IEEE 802 11a/h WIFI 5 GHz (OFOM, 48 Mbps, 90pc duty cycle) | WLAN | 8.76 | ±9.6 ±9.6 |
| 10590 | AAC | IEEE 802 11a/h WFI 5 GHz (OFDM, 54 Mbps, 80pc duty cycle) | WLAN | 8.35 | |
| 0.0691 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle) | WLAN | | 19.6 |
| 0692 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 80pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) | | 8.63 | ±9.6 |
| 0.593 | AAC | | WLAN | 8.79 | ±9.6 |
| | | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 0594 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.74 | ±9.6 |
| 0.595 | AAC | IEEE B02.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle) | WLAN | 8,74 | ±9.6 |
| 0596 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.71 | ±9,6 |
| 0597 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle) | WEAN | 8.72 | ±9.8 |
| 0598 | AAC | IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) | WEAN | 8.50 | ±9.6 |
| 0599 | AAC | IEEE 802 11n (HT Mixed, 40 MHz, MC50, 90pc duty cycle) | WEAN | 8.79 | ±9.6 |
| 0600 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | ±9.6 |
| 0601 | AAG | IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.82 | 19.8 |
| 10602 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.94 | 19.6 |
| 0603 | 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, MC55, 90pc duty cycle) | WLAN | 8.76 | ±9.6 |
| 0605 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.97 | 19.8 |
| 10606 | AAC | IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle) | WLAN | 8.82 | ±9.6 ±9.5 |
| 0.607 | AAC | IEEE 802.11ac WIFI (20 MHz, MC50, 90pc duty cycle) | WLAN | 8.84 | |
| 0.608 | AAC | IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle) | | 34.8 | ±9,8 |
| - 1 M M M | Country . | I make avoid the start feet wards if which carry christ | WLAN | 8.77 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E R = |
|--------|----------------|---|-----------|----------|----------------------|
| 0.609 | AAC | IEEE 802.11ac WIFI (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.57 | ±9.8 |
| 0610 | ANC | IEEE 802.11ac WFI (20 MHz, MCS3, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| 0611 | AAC | IEEE 802.11ac WIFI (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | +9.6 |
| 0612 | AAC | IEEE 802.11ac WFI (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0613 | AAC | IEEE 802.11ac WFI (20 MHz, MCS6, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 0614 | AAC | IEEE 802.11ac WFI (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 0615 | AAC | IEEE 802.11ac WFI (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0618 | AAC | IEEE 802.11ac WIF (40 MHz, MCS0, 90pc duty cycle) | WLAN | 8.82 | 19.6 |
| 0617 | AAC | IEEE 802,11ac WIF (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.81 | :9.6 |
| 0618 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.58 | ±9.0 |
| 0619 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.86 | 19.6 |
| | AAC | IEEE 802.11ac WiFi (40 MHz, WCS3, 50pc duty cycle) | WLAN | 8.87 | 19.6 |
| 0620 | AAC | IEEE 802.11ac WFI (40 MHz, WCS4, 90pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0621 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS6, 90pc duty cycle) | WLAN | 8.68 | 10.6 |
| | And Distances | and data and we have a second | WLAN | 8.82 | 19.6 |
| 0.623 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle) | WLAN | 0.06 | 19.6 |
| 0.624 | AAC | IEEE 802.11ac WIFI (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.96 | 19.6 |
| 0.625 | AAC | IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle) | | | |
| 0826 | AAC | IEEE 802.11ac WiFI (60 MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | 19.6 |
| 0627 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS1, 90pc duty cycle) | WLAN | 8.88 | ±9.6 |
| 0.628 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.71 | ±9.0 |
| 0629 | AAG | IEEE 802.11ac WFI (80 MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | 19.6 |
| 0630 | AAC | IEEE 802.11ao WFI (80 MHz, MCS4, 90pc duty cycle) | WLAN | 8.72 | ±9.6 |
| 0631 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle) | WLAN | 8.81 | ±9.8 |
| 0632 | 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 | 08.5 | ±9.6 |
| 0635 | AAC | IEEE 802.11ac WIFI (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 0.636 | AAD | IEEE 802.11ac WIFi (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.83 | ±0.6 |
| 10637 | GAA | IEEE 802.11ac WIFI (160 MHz, MCS1, 90pc duty cycle) | WLAN | 8,79 | ±9.6 |
| 0.638 | AAD | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.86 | 29.6 |
| 10:639 | AAD | IEEE 802.11ac WIFi (160 MHz, MCS3, 90pc duty cycle) | WLAN | 8.85 | ±9.5 |
| 10:540 | AAD | IEEE 802.11ac WIFI (160 MHz, MCS4, 90pc duty cycle) | WLAN | 8.98 | ±9.6 |
| 10:641 | AAD | IEEE 802 11ac WiFi (160 MHz, MCS5, 90pc duty cycle) | WLAN | 9.06 | ±9.6 |
| 10642 | AAD | IEEE 802.11ac WIFI (160 MHz, MC58, 90pc duty cycle) | WLAN | 9.06 | ±9.6 |
| 10643 | AAD | IEEE 802.11ac WIFI (160 MHz, MCS7, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| 10544 | AAD | IEEE 802.11ac WIFi (160 MHz, MCS8, 90pc duty cycle) | WLAN | 9.05 | ±9.6 |
| 10845 | AAD | IEEE 802.11ac WIFI (160 MHz, MC59, 90pc duty cycle) | WLAN | 9.11 | 19.6 |
| 10646 | AAH | LTE-TDD (SC-FDMA, 1 R8, 5MHz, QPSK, UL Subtrame=2,7) | LTE-TDD | 11.96 | 19.6 |
| 10547 | AAG | LTE-TDD (SC-FDMA, 1 RB. 20 MHz, QPSK, UL Subframe=2.7) | LTE-TOD | 11.96 | ±9.6 |
| 10648 | AAA | CDMA2000 (1x Advanced) | CDMA2000 | 3.45 | ±9.6 |
| 10.652 | AAF | LTE-TDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.91 | 19.6 |
| 10.653 | AAF | LTE-TDD (OFOMA, 10 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 7.42 | ±9.6 |
| 10854 | | LTE-TDD (OFOMA, 15 MHz, E-TM 3.1, Clipping 44%) | LTE-TDD | 6.96 | ±9.6 |
| 10655 | AAF | LTE-TDD (OFOMA, 20 MHz, E-TM 3.1, Clipping 44%) | LTE-TOD | 7.21 | 19.6 |
| 10658 | AAB | Puter Waveform (200Hz, 10%) | Test | 10.00 | ±9.6 |
| 10659 | AAB | Pulse Waveform (200Hz, 20%) | Teat | 6.99 | ±0.6 |
| 10860 | AAB | Pulse Waveform (200Hz, 40%) | Test | 3.98 | 19.6 |
| 10861 | AAB | Pulse Waveform (200Hz, 60%) | Test | 2.22 | 19.6 |
| 10652 | AAB | Pulse Waveform (200Hz, 80%) | Tital | 0.97 | |
| 10670 | AAA | Bluetooth Law Energy | Bluetoodt | 2.19 | ±9.6 |
| 10671 | AAC | IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle) | WLAN | 9.09 | ±9.6 |
| 10672 | AAC | | WLAN | 8.57 | - |
| 10673 | AAC | IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle) | | 111111 | ±9.6 |
| 10673 | AAC | IEEE 802 11ax (20 MHz, MCS2, 90pc duty cycle) | WLAN | 8.78 | ±9.6 |
| | AAC | IEEE 802.11ax (20 MHz, MC53, 90pc duty cycle) | | | ±9.6 |
| 10675 | | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle) | WLAN | 8.90 | ±9.6 |
| 10676 | and the second | IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle) | WLAN | 8.77 | ±9.8 |
| 10677 | | IEEE 802.11ax (20 MHz, MC58, 90pc duty cycle) | WLAN | 8.73 | ±9.6 |
| 10678 | | IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle) | WLAN | 8.78 | 19.0 |
| 10679 | AAC | IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle) | WLAN | 8.89 | ±9.6 |
| 10680 | AAC | IEEE 602.11ax (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 | 19.8 |
| 10682 | AAC | IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle) | WEAN | 8,83 | ±9.8 |
| 10683 | AAC | IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | ±9.0 |
| 10684 | AAC | IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle) | WLAN | 8.26 | 19.6 |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle) | WLAN | 8.33 | ±9.6 |
| 10686 | AAC | IEEE 802.11ax (20 MHz, MC83, 99pc duty cycle) | WLAN | 8.28 | 19.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E k = |
|-------|--------|---|-----------|---|----------------------|
| 0687 | AAC | IEEE 802 11ax (20 MHz, MCS4, 99pc duty cycle) | WLAN | 8.45 | ±9.6 |
| 0688 | AAC | IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle) | WLAN | 8.29 | 19.6 |
| 0689 | AAC | IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle) | WLAN | 8.55 | 19.6 |
| 0690 | AAC | IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle) | WLAN | 8.29 | :9.5 |
| 0691 | AAC | IEEE 802 11ax (20 MHz, MCS8, 99pc duty cycle) | WLAN | 8.25 | 19.6 |
| 0692 | AAC | IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle) | WLAN | 8.29 | 19.6 |
| 0693 | AAC | IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle) | WLAN | 8.25 | 19.6 |
| 0694 | AAC | IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle) | WLAN | 8.57 | |
| 0695 | AAC | | WLAN | 8.78 | +9.6 |
| | 10.122 | IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle) | STREET. | | 19.6 |
| 0.696 | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle) | WLAN | 8.91 | :19.6 |
| 0697 | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle) | WLAN | 8.61 | ±9.6 |
| 0698 | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle) | WLAN | 8.89 | ±9.0 |
| 0.699 | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0700 | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle) | WLAN | 8.73 | ±9.6 |
| 0701 | AAG | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle) | WLAN | 8.86 | ±9.8 |
| 0702 | AAC | IEEE 002.11ax (40 MHz, MCS7, S0pc duty cycle) | WLAN | 8.70 | ±9.8 |
| 0703 | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle) | WLAN | 5.82 | ±9.6 |
| 0704 | AAC | IEEE 902.11ax (40 MHz, MCS9, 90pc duty cycle) | WLAN. | 8.66 | ±9.6 |
| 0.705 | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 0708 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN | 8.66 | ±9.6 |
| 0707 | AAC | EEE 802.11ax (40 MHz, MCS0, 99pc duty cycle) | WLAN | 8.32 | ±9.8 |
| 0708 | AAC | IEEE 802 11ax (40 MHz, MCS1, 99pc duty cycle) | WLAN | 8.55 | ±9.6 |
| 0709 | AAC | IEEE 802.118x (40 MHz, MCS2, 59pc duty cycle) | WEAN | 8.33 | 19.6 |
| 0710 | AAC | IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle) | WLAN | 8.29 | 19.6 |
| 0711 | AAC | IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle) | WLAN | 8.39 | ±9.5 |
| 0712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle) | WLAN | 8.87 | ±9.6 |
| 0713 | AAC | IEEE 802 11 ax (40 MHz, MC66, 99pc duty cycle) | WLAN | 8.33 | 19.6 |
| 0714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle) | WLAN | 8.26 | ±9.6 |
| 0715 | AAC | IEEE 802.11ax (40 MHz, MC88, 99pc duty cycle) | WLAN | 8,45 | 19.0 |
| 0716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle) | 100000100 | 8.30 | |
| 0717 | AAC | IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle) | WLAN | | ±9.6 |
| 0718 | AAG | | WLAN | 8.48 | ±9.6 |
| | AAC | IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle) | WLAN | 8.24 | 19.8 |
| 0719 | - | IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |
| 0720 | AAC | IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle) | WLAN | 8.87 | ±9.6 |
| 0721 | AAC . | IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle) | WLAN | 8.76 | ±9,6 |
| 0722 | AAC | IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle) | WLAN | 8.55 | ±9.8 |
| 0723 | AAC | IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle) | WLAN | 8.70 | ±9,6 |
| 0724 | AAC | IEEE 802.11ax (80 MHz, MCSS, 90pc duty cycle) | WLAN | 8.90 | ±9,6 |
| 0.728 | ANC | IEEE 802.11ax (80 MHz, MCS6, 50pc duty cycle) | WLAN | 8.74 | ±9.8 |
| 0726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle) | WLAN | 8.72 | ±9.8 |
| 0727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle) | WLAN | 8.66 | ±9.6 |
| 0728 | AAC. | IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle) | WLAN | 8.65 | ±9.8 |
| 0729 | AAC | IEEE 802.11.0x (80 MHz, MCS10, 90pc duty cycle) | WLAN | 8.64 | ±8.6 |
| 0730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle) | WLAN | 8.67 | ±9.6 |
| 0731 | AAC. | IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle) | WLAN | 8.42 | 29.6 |
| 0732 | AAC | IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle) | WLAN | 8.46 | +9.6 |
| 0733 | AAC | IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle) | WLAN | 8.40 | ±9.5 |
| 0734 | AAC | IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle) | WLAN | 8.25 | 19.6 |
| 0735 | AAC | IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle) | WLAN | 8.33 | 19.6 |
| 0736 | AAC | IEEE 802.11ax (B0MHz, MCB5, 99pc duty cycle) | WLAN | 8.27 | 19.6 |
| 0737 | AAC | IEEE 802,11ax (80 MHz, MCS6, 99pc duty cycle) | WLAN | 8.36 | |
| 0738 | AAC | IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle) | WLAN | and the second se | =9.6 |
| 0739 | AAC | IEEE 802.11ax (80 MHz, MCSR, 98pc duty cycle) | | 8.42 | 19.6 |
| 0748 | AAC | IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) | WLAN | 8.29 | 29.6 |
| 0741 | AAC | | WLAN | 8.48 | ±9.6 |
| 0741 | AAC | IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) | WLAN | 8.40 | 19.6 |
| | | IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) | WLAN | 8.43 | ±9.6 |
| 0743 | AAC | IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) | WLAN | 8.94 | ±9.6 |
| 0744 | AAC. | IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) | WLAN | 9,16 | ±9.6 |
| 9745 | AAC | IEEE 002 11ax (160 MHz, MCS2, 90pc duty cycle) | WLAN | 8.93 | ±9.6 |
| 0746 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) | WLAN | 9,11 | 19.6 |
| 0747 | AAC | IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) | WLAN | 9.04 | ±9.6 |
| 0748 | AAC. | IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) | WLAN | 8.93 | ±9.6 |
| 0749 | AAC. | IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle) | WLAN | 8.90 | 19.6 |
| 0750 | AAC | IEEE 802 11 ax (160 MHz, MCS7, 90pc duty cycle) | WLAN | 8.79 | 19.6 |
| 0751 | AAC | IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) | WLAN | 8.82 | ±9.6 |
| 0752 | AAC. | EEE 802 11ax (160 MHz, MCS9, 90pc duty cycle) | WLAN | 8.81 | ±9.6 |

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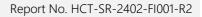


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| 0753 | AAC. | IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle) | WLAN | 9.00 | |
|--|-------|--|------------------|------|------|
| 0754 | | the second state is a second state and a second state at | WD04 | 0,00 | 19.6 |
| | AAC | IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle) | WLAN. | 8.94 | ±9.6 |
| 0755 | AAC | IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle) | WLAN | 8.64 | ±9.6 |
| 0756 | AAC | IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle) | WLAN | 8.77 | ±9.6 |
| 0757 | AAC | IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle) | WLAN | 8.77 | 19.6 |
| 10758 | AAC | IEEE 802.11ax (160 MHz, WCS3, 99pc duty cycle) | WLAN | 8.69 | ±9.6 |
| 10759 | AAC | IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 10760 | AAC | IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle) | WLAN | 8.49 | ±9.6 |
| 0.761 | AAC. | IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle) | WLAN | 8.58 | ±9.6 |
| 10762 | AAC | IEEE 802 11 ax (160 MHz, MCS7, 99pc duty cycle) | WLAN | 8.49 | 19.6 |
| 10763 | AAC | IEEE 002.11ax (100 MHz, MC58, 99pc duty cycle) | WLAN | 8.53 | 19.6 |
| 10764 | AAC | IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle) | WLAN | 8.54 | 19.6 |
| 10765 | AAC | IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) | WEAN | 8.54 | 19.6 |
| 10766 | AAC | IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) | WLAN | 8.51 | 19.6 |
| 10767 | AAE | 50 NR (CP-OFDM, 1 R8, 5MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 7.99 | ±9.6 |
| 10768 | AAD | 5G NR (CP-OFDM, 1 RB, 10MHz, QPSK, 15kHz) | 5G NR FR1 TOD | 8.01 | |
| 10769 | AAD | 5G NR (CP-OFOM, 1 RB, 15MHz, OPSK, 15kHz) | 50 NR FR1 T00 | | ±9.8 |
| | AAD | | | 8.01 | ±9.6 |
| 10770 | | 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 |
| 10771 | AAD | 50 NR (CP-OFDM, 1 R8, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | B.02 | ±9.6 |
| 10772 | AAB | 5G NR (CP-OFDM, 1 R8, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | B.23 | ±9.6 |
| 10773 | AAD | 56 NR (CP-OFDM, 1 R8, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.03 | ±9.6 |
| 10774 | AAD | 5G NR (CP-OFOM, 1 RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.02 | ±9.6 |
| 10775 | AAD | 58 NR (CP-OFDM, 50% RB, 5MHz, QPSK, 15xHz) | 5G NR FR1 TDD | 8.31 | ±5.6 |
| 10776 | AAD | 5G NR (CP-OFOM, 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) | SG NR FR1 TDD | 8.30 | ±9.6 |
| 10778 | AAD | 5G NR (CP-OFOM, 50% RB, 20 MHz, CPSK, 15 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 10779 | AAC | 5G NR (CP-OFOM, 50% R8, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.42 | 19.6 |
| 10780 | AAD | SG NR (CP-OFOM, 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, 15kHz) | 5G NR FR1 TDD | 8.38 | ±9.6 |
| 10782 | AAD | 5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15xHz) | 5G NR FR1 TDD | 8.43 | ±9.6 |
| 10783 | AAE | 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.31 | 19.6 |
| 10784 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 TDD | 8.29 | ±9.6 |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.40 | 19.6 |
| 10.786 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | SG NR FR1 TDD | 8.35 | ±9.6 |
| 10787 | GAA | 50 NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.44 | ±9.6 |
| 10788 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.30 | ±9.6 |
| 10789 | AAD | 5G NR (CP-OFDM, 100% RB, 40MHz, QPSK, 15kHz) | 5G NR FR1 TDD | 8.37 | :9.6 |
| 10790 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) | SG NR FRI TDD | 8.39 | 19.6 |
| 10791 | AAE | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.83 | 19.6 |
| 10792 | AAD | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.92 | |
| 10793 | AAD | 50 NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 KHz) | | 7.92 | :9.6 |
| 10794 | AAD | SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | | ±9.6 |
| 10795 | AAO | SG NR (CP OFDM, 1 RB, 25MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.82 | ±9.6 |
| 10.796 | AAD | | 5G NR FRI TDD | 7,84 | ±9.6 |
| and the second second | 10.00 | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 38 KHz) | 5G NR FR1 TDD | 7,82 | ±9.6 |
| 10797 | AAD | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) | 56 NR FR1 TDD | 8.01 | ±9.6 |
| 10798 | AAD | 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30kHz) | 5G NR FR1 TDD | 7.89 | ±9.6 |
| 10799 | AAD | 50 NR (CP-OFOM, 1 R8, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.93 | 19.6 |
| 10801 | AAD | 5G NR (CP-OFDM, 1 R8, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7.89 | ±9.6 |
| 0602 | AAD | 5G NR (CP-OFOM, 1 R8, 90 MHz, QPSK, 90 kHz) | 5G NR FR1 TDD | 7.87 | ±9.6 |
| 0803 | AAD | 5G NR (CP-OFOM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 7,93 | ±9.6 |
| 0805 | AAD | 5G NR (CP-OFDM, 50% R8, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | B.34 | ±9.6 |
| 10806 | AAD | 5G NR (CP-OFOM, 50% R8, 15 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 8.37 | ±9.6 |
| 10809 | AAD | 5G NR (CP-OFCM, 50% RB, 30 MHz, QPSK, 30 kHz) | 55 NR FR1 TDD | 8.34 | ±9.8 |
| 0810 | AAD | 5G NR (CP-OFOM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.34 | ±9.6 |
| 0812 | AAD | 5G NR (CP-OFOM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 10817 | AAE | SG NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 0818 | AAD | 50 NR (CP-OFOM, 100% RB, 10 MHz, GPSK, 30 kHz) | 5G NR FR1 TDD | B.34 | ±9.6 |
| 0819 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, OPSK, 30 kHz) | 5G NR FR1 TDD | 8.33 | ±9.8 |
| 10820 | AAD | 5G NR (CP-OFOM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.30 | +9.6 |
| 10821 | AAD | 58 NR (CP-OFOM, 100% RB, 25 MHz, OPSK, 30 kHz) | 5G NR FR1 TDD | 8.41 | 19.6 |
| 0822 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) | 5G NR FR1 TDD | 8.41 | ±9.6 |
| 0823 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QP5K, 30 kHz) | 5G NR FR1 TDD | 8.36 | 19.6 |
| 10824 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) | SG NR FR1 TDD | 8.39 | |
| - and the second | AAD | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 KHz) | 50 NR FR1 TDD | 8.39 | ±9.6 |
| 0825 | | | 553 NPLEPH1 1001 | 0.41 | ±9.8 |
| 10825 | AAD | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 8.42 | ±9.6 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | $Unc^{II} k = 2$ |
|--------|-------|--|---------------|-------------|------------------|
| 10829 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, GPSK, 30 kHz) | 5G NR FR1 TOO | 8.40 | ±9.6 |
| 0830 | AAD . | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 80 kHz) | 5G NR FR1 TDD | 7.63 | ±9.8 |
| 0831 | AAD | 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 60kHz) | 5G NR FR1 TOD | 7.73 | ±9.5 |
| 0832 | AAD | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.74 | ±9.6 |
| 0.833 | AAD | 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 80kHz) | 5G NR FR1 TDD | 7.70 | ±9.6 |
| 0834 | AAD | 5G NR (CP-OFDM, 1 RB, 30MHz, QPSK, 60kHz) | 5G NR FR1 TDD | 7.75 | ±9.6 |
| 0835 | AAD | SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 80 kHz) | 5G NR FR1 TDD | 7.70 | ±9.6 |
| 10836 | AAD | 50 NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.66 | ±9.6 |
| 0.837 | AAD | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.68 | ±9.6 |
| 10839 | AAD | SG NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 7.70 | ±9.8 |
| 10840 | AAD | SG NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) | 56 NR FR1 TDD | 7.67 | ±9.8 |
| 0845 | AAD | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) | SG NR FR1 TDD | 7.71 | 29.6 |
| 0.843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8,49 | ±9.6 |
| 0844 | AAD | 5G NR (CP-OFDM; 50% R8, 20 MHz; QPSK; 60 kHz) | 5G NR FR1 TDD | 8.34 | ±9.0 |
| 0848 | AAD | 53 NR (CP-OFDM, 50% RB, 30 MHz, QP5K, 60 KHz) | 56 NR FR1 TDD | 8,41 | ±9.6 |
| 0854 | AAD | 5G NR (CP-OFDM, 100% RB, 10 MHz, GPSK, 60 kHz) | SG NR FR1 TDD | 8.34 | ±9.6 |
| 0855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.35 | ±9.6 |
| 0856 | AAD | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) | 5G NR FR1 TD0 | 8.37 | ±8.6 |
| 0857 | AAD | 5G NR (CP-DFDM, 100% RB, 25 MHz, QPSK, 60 kHz) | SG NR FR1 TDD | 8.35 | 19.6 |
| 0858 | AAD | 5G NR (CP-OFDM, 100% RB, 30 MHz, GPSK, 60 kHz) | 5G NR FR1 TDD | 8.36 | ±9.6 |
| 0859 | AAD | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 8.34 | 29.6 |
| 0860 | AAD | SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) | 5G NR FR1 TDO | 8.41 | 19.6 |
| 0.861 | GAA | 8G NR (CP-OFDM, 100% RB, 60 MHz, GPSK, 60 kHz) | 5G NR FR1 TDD | B.40 | 29.6 |
| 0863 | AAD | 50 NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz) | 5G NR FR1 TDD | 唐.41 | ±9.6 |
| 0864 | AAD | 5G NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 60 kHz) | 5G NR FR1 TOD | 8.37 | 29.8 |
| 0865 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz) | 5G NR FR1 TDO | 8.41 | 39.6 |
| 0.866 | AAD | 5G NR (DFTs-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) | 5G NR FRT TDO | 5.68 | ±9.6 |
| 10868 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) | SG NR FR1 TOD | 5.89 | ±9.6 |
| 0.809 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 9G NR FR2 TDD | 5.75 | ±9.8 |
| 0870 | AAE | 5G NR (DFT-6-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TOO | 5.86 | :::9.6 |
| 10:871 | AAE | SG NR (DFT:s-DFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDO | 5.75 | ±9.6 |
| 10872 | AAE | 5G NR (OFTs-DFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TOD | 6.52 | 土日:石 |
| 10.873 | AAE | 5G NR (DFTs-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TOD | 6.61 | ±9.8 |
| 10874 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65 | ±9.8 |
| 10.875 | AAE | SG NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TOD | 7.78 | ±9.6 |
| 10.876 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.39 | ±9.6 |
| 10.877 | AAE | 6G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 7.95 | ±9.6 |
| 10.878 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | B.41 | 9.0± |
| 10.879 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 8.12 | ±9.6 |
| 10.880 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 53 NR FR2 TOD | 8.38 | ±9.6 |
| 10.881 | AAE | SG NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.75 | ±9,8 |
| 10-882 | AAE | 5G NR (DFTs-DFDM, 100% RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 5.96 | ±9.6 |
| 10.683 | AAE | 50 NR (DFTs-OFDM, 1 AB, 50 MHz, 150AM, 120 kHz) | 5G NR FR2 TDD | 6.57 | ±9.6 |
| 10:884 | AAE | 5G NR (DFT-II-OFOM, 100% RB, 50 MHz, 18QAM, 120 kHz) | 5G NR FR2 TDD | 6.53 | 3.9.6 |
| 10.885 | AAE | 5G NR (DFTs-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.61 | ±9.5 |
| 10.886 | AAE | 5G NR (DFT-6-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TOD | 6.65 | +9.6 |
| 0887 | AVE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 7.78 | ±9.6 |
| 0.888 | AAE | 5G NR (CP-OFDM, 100% R8, 50 MHz, QPSK, 120 kHz) | 5G NR FR2 TDD | 8.35 | ±9.8 |
| 0.889 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDO | 8.02 | 29.6 |
| 0890 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDO | 8.40 | ±8.8 |
| 0891 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDO | 8.13 | ±9.8 |
| 9680 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDO | 8.41 | ±9.6 |
| 0897 | AAC | SG NR (DFT-e-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) | 6G NR FR1 TOO | 5.60 | 29.6 |
| 89801 | AAB | 5G NR (DFT.s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) | 6G NR FR1 TDD | 5.67 | ±9.8 |
| 0899 | AAB | 5G NR (OFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.67 | ±9.6 |
| 0900 | AAB | 5G NR (DFTs-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 0901 | AAB | 5G NR (DFT=0-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5,68 | ±0.6 |
| 0902 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.68 | :19,6 |
| 0903 | AA8 | 5G NR (DFTs-OFDM, 1 RB, 40 MHz, QP5K, 30 kHz) | 53 NR FR1 TDD | 5.68 | ±9.8 |
| 0904 | AAB | SG NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) | 5G NR FR1 TOO | 5.68 | ±9.6 |
| 0905 | AAB | SG NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | ±9.6 |
| 0906 | AAB | SG NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.68 | 3.9.8 |
| 0907 | AAC | SG NR (DFT-s-OFDM, 60% RB, 5MHz, QPSK, 30KHz) | 5G NR FR1 TOD | 5.78 | ±9.6 |
| 0908 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, OPSK, 30 kHz) | SG NR FR1 TDD | 5.93 | ±9.6 |
| 0909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.96 | 19.6 |
| 10910 | AAB | 50 NR (DFT-s-OFDM, 50% RB, 20MHz, OPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | 19.8 |

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| UID | Rev | Communication System Name | Group | PAR (dB) | Uno ^E R = |
|--------|--------|---|-------------------------------|---|----------------------|
| 0911 | AAB | 5G NR (DFT & OFDM, 50% RB, 25 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 5.93 | ±9.6 |
| 5190 | AAB | 5G NR (DFT's OFDM, 50% AB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | 19.6 |
| 0913 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 0914 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) | 50 NR FR1 TOD | 5.85 | ±9.6 |
| 0915 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.83 | 19.6 |
| 0916 | AAB | 5G NR (DFT=-OFDM, 50% RB, 80 MHz, QPSK, 30 MHz) | 50 NR FR1 TDD | 5.87 | ±9.6 |
| 0917 | AAB | S6 NR (DFT=OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) | 56 NR FR1 TDD | 5.94 | ±9.6 |
| 10000 | AAC | SG NR (DFT= OFDM, 30% RB, 5 MHz, GPSK, 30 kHz) | 2010/1920/1920/1920/1920/1920 | 5.86 | |
| DetH | | | 5G NR FR1 TDD | and the second se | ±9.6 |
| 0918 | AAB | 6G NR (DFT-6-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.86 | ±9.6 |
| 0.840 | AAB | 6G NR (DFT-e-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) | 50 NR FR1 TDD | 5.87 | ±9.0 |
| 0.921 | AAB | SG NR (OFT-s-DFDM, 100% RB, 20 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | ±9.6 |
| 0.922 | AAB | 5G NR (DFT:s-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) | 5G NR FR1 TDD | 5.82 | ±8.6 |
| 0.9423 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5,84 | ±9.6 |
| 0.824 | AAB | 5G NR (DFT-9-OFDM, 100% RB, 40 MHz, OPSK, 30 kHz) | 5G NR FR1 TDD | 5.84 | 土9.8 |
| 0925 | AAB | 5G NR (DFT-s-OFOM, 100% RB, 50 MHz, GPSK, 30 kHz) | 5G NR FR1 TDD | 5,95 | :9.6 |
| 0925 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) | 5G NR FR1 TOD | 5.84 | ±9.6 |
| 0927 | AAB | 5G NR (DFT-9-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) | 5G NR FR1 TDD | 5.94 | 19.6 |
| 0928 | AAD | 5G NR (DFT a OFDM, 1 RB, 5 MHz, QPSK, 15 kHz) | SG NR FR1 FDD | 5.52 | ±9.6 |
| 0929 | AAC | 5G NR (DFTs-OFDM, 1 RB, 10 MHz, QPSK, 15 HHz) | 5G NR FR1 FDD | 5,52 | ±9.6 |
| 0990 | AAC | 50 NR (DFT-8-OFDM, 1 RB, 15 MHz, QPSK, 15 NHz) | 5G NR FR1 FDD | 5.62 | 19.6 |
| 0991 | AAD | 5G NR (DFT-4-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) | 5G NR FRI FDD | 5.51 | 39.6 |
| 0932 | AAC | 5G NR (DFTs-OFDM, 1 RB, 25 MHz, QPSK, 15 KHz) | 5G NR FR1 FD0 | 5.51 | +9.6 |
| 0933 | AAC | 50 NR (DFT#-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) | 53 NR FR1 FD0 | 5.51 | +9.6 |
| 0934 | AAC | 56 NR (DFTs-OFDM, 1 R8, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.51 | 2.2.2 |
| | AAD | SG NR (DFTs-OFDM, 1 R8, 50 MHz, QPSK, 15 KHz) | 5G NR FR1 FDD | | 19.6 |
| 0935 | 10000 | | | 5.61 | 39.6 |
| 10936 | AAC | SG NR (DFT-6-OFDM, 50% RB, 5MHz, OPSK, 15kHz) | 5G NR FR1 FDD | 5.90 | ±9.0 |
| 10937 | AAC | SG NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.77 | ±9.8 |
| 0938 | AAC | 5G NR (DFTs-OFDM, 50% RB, 15 MHz, OPSK, 15 kHz) | 5G NR FR1 FDD | 5.90 | ±9,6 |
| 0.039 | AAC | 5G NR (OFT-6-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.82 | ±9.6 |
| 0.940 | AAC | 5G NR (OFT:s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.89 | ±9.8 |
| 0941 | AAC | SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ±9.8 |
| 10.942 | AAC | 5G NR (DFT-e-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ±9.6 |
| 10943 | AAD | SG NR (OFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.95 | ±9.8 |
| 10944 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, OPSK, 15 kHz) | 5G NR FRI FDD | 5.81 | 土田市 |
| 10.945 | AAC | 5G NR (DFT-e-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.85 | ±9.6 |
| 10946 | AAC. | 5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.83 | ±9.8 |
| 10947 | AAC. | 5G NR (DFTe-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ±9.6 |
| 10948 | AAC | 5G NR (DFT-9-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | ±9.6 |
| 10949 | AAC | SG NR (DFT-6-OFOM, 100% RB, 30 MHz, OPSK, 15 kHz) | 5G NR FR1 FDD | 5.87 | ±9.6 |
| 10950 | AAC | 50 NR (DFT-e-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.94 | +8.6 |
| 10951 | AAD | 5G NR (DFT-6-OFOM, 100% RB, 50 MHz, QPSK, 15 kHz) | 5G NR FR1 FDD | 5.92 | 10.0 |
| 10952 | AAA | 5G NR OL (CP-OFDM, TM 3.1, 5MHz, 54-QAM, 15kHz) | 5G NR FR1 FDD | 8.25 | ±9.6 |
| | AAA | | | | - |
| 10953 | 1000 | 53 NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz) | 5G NR FR1 FD0 | 0.15 | ±9.6 |
| 10954 | AAA | 53 NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 HHz) | 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 | 29.6 |
| 10955 | | 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-GAM, 303Hz) | 5G NR FR1 FDD | 8.14 | ±9.6 |
| 10957 | AAA | 5G NB DL (CP-OFDM, TM 3.1, 10 MHz, 54-QAM, 30 kHz) | 5G NR FR1 FD0 | 8.31 | ±9.6 |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MRz, 64 QAM, 30 NRz) | 5G NR FR1 FDD | 8.81 | ±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 |
| 10.962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 HHz) | SG NR FR1 TDD | 9.40 | ±9.6 |
| 10963 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz) | 50 NR FR1 TD0 | 9.55 | ±9.6 |
| 10984 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-GAM, 30 kHz) | 5G NR FR1 TDD | 9.29 | 19.6 |
| 10965 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) | 5G NR FR1 T00 | 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-GAM, 30 kHz) | BG NR FR1 TDD | 9.42 | ±9.6 |
| 10968 | AAB | 5G NR DL (CP-OFDM, TR 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | SG NR FRI TOO | 9.42 | |
| | AAB | | | | ±9.6 |
| 10972 | 1.0.00 | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15kHz) | SG NR FR1 TDD | 11.59 | ±9.6 |
| 10973 | AAB | 5G NR (DFT-a-OFDM, 1 RB, 100MHz, QPSK, 30kHz) | 5G NR FR1 TOD | 5.06 | ±9.6 |
| 10974 | AAB | 5G NR (CP-OFDM, 100% RB, 100 MHz, 258-QAM, 30 kHz) | 5G NR FR1 TD0 | 10.28 | ±9.6 |
| 10978 | AAA | ULLA BOR | ULLA | 1.16 | ±9.6 |
| 10970 | AAA | ULLA HDR4 | ATTR: | 8.58 | ±9.6 |
| 10980 | AAA | ULLA HDR8 | ULLA | 10.32 | ±9.5 |
| 10981 | AAA | ULLA HDRp4 | ULLA | 3.19 | ±9.6 |
| | AAA | ULLA HDRo8 | ULLA | 3.43 | ±9.6 |

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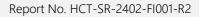
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| UID | Rev | Communication System Name | Group | PAR (dB) | Unc ^E R = 2 |
|--------|-----|---|---------------|----------|------------------------|
| 10983 | AAA | 50 NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 15 kHz) | 5G NR FR1 TOD | 9.31 | ±9.6 |
| 10984 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 6G NR FR1 TDD | 0.42 | ±9.6 |
| 10965 | AAA | 56 NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 30 kHz) | SG NR FR1 TOD | 9.54 | ±9.6 |
| 38601 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-GAM, 30 KHz) | 5G NR FR1 TOD | 8.50 | ±9.6 |
| 10987 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 KHz) | 5G NR FR1 TOD | 9.53 | ±9.6 |
| 10988 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 0.38 | 19.6 |
| 10989 | AAA | 5G NR DI, (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 8.33 | ±9.0 |
| 10990 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-GAM, 30 kHz) | 5G NR FR1 TDD | 0.52 | 3.Q± |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-GAM, 15 kHz) | 50 NR FR1 TDD | 10.24 | ±9.6 |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 90 kHz) | 5G NR FR1 TDD | 10,75 | 3,6 |
| 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 | 56 NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15kHz) | 5G NR FR1 FDD | 8,65 | ±9.6 |
| 11007 | AAA | 58 NR DL (CP-OFDM, TM 3.1, 40 MHz, 54-QAM, 15 kHz) | SG NR FRI 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 | 8.61 | 19.6 |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25MHz, 54-QAM, 30 kHz) | SG NR FR1 FDD | 8.76 | ±9.6 |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | SG NR FR1 FDO | 8.95 | 69.6 |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 53 NR FR1 FDD | 8.96 | £9.6 |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-GAM, 30 kHz) | 5G NR FR1 FDD | 8,68 | 5.9.6 |
| 11013 | AAA | IEEE 802.11bs (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 | 19.6 |
| 11015 | AAA | IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle) | WLAN | 8.44 | 29.6 |
| 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) | WEAN | 8.41 | ±9.6 |
| 11018 | AAA | IEEE 802.11be (320 MHz. MCS6, 99pc duty cycle) | WLAN | 8.40 | ±9.8 |
| 11019 | AAA | IEEE 802.11be (320 MHz, MC57, 99pc duty cycle) | WLAN | 8.29 | ±9.6 |
| 11020 | AAA | IEEE 802.11be (320 MHz, MC58, 99pc duty cycle) | WLAN | 8:27 | 19.6 |
| 11:021 | AAA | IEEE 802.11ba (320 MHz, MCS9, 99pc duty cycle) | WLAN | 8.46 | ±9.6 |
| 11022 | AAA | IEEE 502 11be (320 MHz, MCS10, 99pc duty cycle) | WLAN | 8.36 | 19.6 |
| 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 802.11ba (320 MHz, MCS13, 99pc duty cycle) | WLAN | 8.37 | 19.6 |
| 11025 | AAA | IEEE 802 11be (320 MHz, MCS0, 99bc duty cycle) | WLAN | 8:39 | ±9.6 |

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

Certificate No: EUmm-8486_Jun23

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Appendix E. – Dipole Calibration Data



| rghausstrasse 43, 6004 Zurich credited by the Swiss Accreditat | fion Service (SAS) | Subdall ^{or} | | wiss Calibration 1 | |
|---|---|---|---|--|-----------------------|
| e Swiss Accreditation Service attilateral Agreement for the re | | | | | |
| ent HCT Gyeonggi-do, Rep | | | ficate No. | 5G-Veri60-1 | 041_Nov23 |
| ALIBRATION C | CERTIFICATE | E | 곜 | 상 당 씨 | ाः <u>वि</u> |
| Deject | 5G Verification S | Source 60 GHz - SN: 1041 | 24 10 10 10 10 10 10 10 10 10 10 10 10 10 | 7년 21년 Sw 기업대년 2041215 | 1 the |
| Calibration procedure(s) | QA CAL-45.v4 | | 10.000 | Contraction of the second | 1 |
| alibration date: | November 16, 20 | 023 | | | |
| his calibration certificate docum he measurements and the unce | ents the traceability to nati entainties with confidence p | 023 lonal standards, which realize the ph probability are given on the following my facility: environment temperature | pages and a | ire part of the certi | ficale. |
| This calibration certificate docum The measurements and the unce NI calibrations have been condu Calibration Equipment used (MS | nerris the traceability to nati artainties with confidence p ictud in the closed laborato TE critical for calibration) | ional alandards, which realize the ph orobability are given on the following ny facility: environment temperature | pages and a | re part of the certi nd humidity < 70% | līcate. |
| This calibration certificate docum The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Reference Probe EUmmWV3 | nents the traceability to nati entainties with confidence p ucted in the closed laborato | ional standards, which realize the ph probability are given on the following | pages and a (22 = 3)°C a ay23) | ire part of the certi | līcate. |
| This calibration certificate docum The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Reference Probe EUmmWV3 | nents the traceability to nati entainties with confidence p acted in the closed laborato TE critical for calibration) ID # SN: 8374 | ional standards, which realize the ph subability are given on the following ry facility: environment temperature Cal Date (Certificate No.) 22-May-23 (No. EUmm-9374_Ma | pages and a (22 = 3)°C a ay23) | ne part of the certi nd humidity < 70% Scheduled Ci May-24 | līcate. |
| The measurements and the unce | nents the traceability to nati entainties with confidence p acted in the closed laborato TE critical for calibration) ID # SN: 8374 | ional standards, which realize the ph subability are given on the following ry facility: environment temperature Cal Date (Certificate No.) 22-May-23 (No. EUmm-9374_Ma | pages and a (22 = 3)°C a ay23) | ne part of the certi nd humidity < 70% Scheduled Ci May-24 | ficate. altoration |
| This calibration certificate docum The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Reference Probe EUmmWV3 DAE4(g | nerris the traceability to hali entainties with confidence p acted in the closed laborato TE critical for calibration) ID # SN: 9374 SN: 9374 SN: 1602 | ional alandards, which realize the ph probability are given on the following ny facility: environment temperature <u>Cal Date (Certificate No.)</u> 22-May-23 (No. EUmm-9374_Ma 06-Nov-23 (No. DAE4ip-1602_No | pages and a (22 = 3)°C a ay23) | ire part of the certil ind humidity < 70% Scheduled C May-24 Nov-24 | ficate. altoration |
| This calibration certificate docum The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Reference Probe EUmmWV3 DAE4(g | nerris the traceability to hali entainties with confidence p acted in the closed laborato TE critical for calibration) ID # SN: 9374 SN: 9374 SN: 1602 | ional alandards, which realize the ph probability are given on the following ny facility: environment temperature <u>Cal Date (Certificate No.)</u> 22-May-23 (No. EUmm-9374_Ma 06-Nov-23 (No. DAE4ip-1602_No | pages and a (22 = 3)°C a ay23) | ire part of the certil ind humidity < 70% Scheduled C May-24 Nov-24 | ficate. altoration |
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Partificate No: ROJAri80, 1041, Min.09 Door 1 of T



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) The Swiss Accreditation Service is one of the signatories to the EA 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. 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 hom
- 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%.

Contilionts Net 6/2 Mexilth 19611 Network This is a set of



Measurement Conditions

| DASY Version | DASY8 Module mmWave | V3.2 |
|--------------------------------|----------------------|------|
| Phantom | 5G Phantom | |
| Distance Horn Aperture - plane | 10 mm | |
| Number of measured planes | 2 (10mm, 10mm + A/4) | |
| Frequency | 60 GHz ± 10 MHz | |

Calibration Parameters, 60 GHz

Circular Averaging

| Distance Hom Aperture to Measured Plane | Prad [®] (mW) | Max E-field (V/m) | Uncertainty (k = 2) | Avg (psPDn+, pa | er Density PDtot+, pePDmod+) //m ²) | Uncertainty (k = 2) |
|--|---------------------------|----------------------|------------------------|-------------------|---|------------------------|
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 49.0 | 268 | 1.27 dB | 144 | 97.6 | 1.28 dB |
| Distance Horn Aperture to Measured Plane | Prad ¹ (mW) | Max E-field (V/m) | Uncertainty (k = 2) | psPDn+, psPD | Density tat+, psPDmod+ //m ^P) | Uncertainty (k = 2) |
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 49.0 | 268 | 1.27 dB | 144, 144, 145 | 96.6, 97.9, 98.3 | 1.28 dB |

Square Averaging

| Distance Horn Aperture to Measured Plane | Prad ⁱ (mW) | Max E-field (V/m) | Uncertainty (k = 2) | Avg (psPDn+, ps | er Density P0tot+, paP0mod+) //m ² } | Uncertainty (k = 2) |
|--|---------------------------|----------------------|------------------------|---|---|---|
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 49.0 | 268 | 1.27 dB | 145 | 97.0 | 1.28 dB |
| Distance Hom Aperture to Measured Plane | Prad ^e (mW) | Max E-field (V/m) | Uncertainty (k = 2) | psPDn+, psPD | Density tot+, psPDmod+ //m²) | Uncertainty (k = 2) |
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 49.0 | 268 | 1.27 dB | 144, 145, 145 | 96.1, 97.3, 97.6 | 1.28 dB |
| | | | | and the last state of the second state of the | | and the second se |

Max Power Density

| Distance Hom Aperture to Measured Plane | Prad [®] (mW) | Max E-field (V/m) | Uncertainty (k = 2) | Max Power Density Sn. Stot, [Stot] (W/m ²) | Uncertainty (k = 2) |
|---|---------------------------|----------------------|------------------------|--|------------------------|
| 10 mm | 49.0 | 268 | 1.27.dB | 187, 187, 188 | 1.28 dB |

¹ Derived from far-5eld data

Cadificate No. 80 Medil/1041 Mar.09. Beas. 9 of 7

F-TP22-03 (Rev. 06)



| DASY | Report |
|------|--------|
| | |

Measurement Report for 5G Verification Source 60 GHz, UID 0 -, Channel 60000 (60000.0MHz)

| Dimensions (mm 100.0 × 100.0 × 1 m Modium Air | 00.0 Band Validation band | can | 1 g, Fre Cha | 110GH4, I | Conversion Factor 1.0 DAE, Calibration Date DA(4)p Sn1002, 2023-11-06 S6 Scan 2023-11-16, 15-44 1.0 Circular Averaging 144 144 145 187 187 187 208 -0.01 |
|---|---|-------------------|--|--|--|
| n, Test Distanço m Modium Air | Band Validation band 94 55 MALA not ut | Grou CW can | IP. Free Gao 600 600 Probe, Calibration Data ELimmWV3 - SN9324_FS5- 2023-05-22 Measurement Result: Date Arg: Arcs [cm ²] Arg: Type psPDnet [W/m ²] psPDnet [W/m ²] psPDnet/[W/m ²] MaxStot] [W/m ²] MaxStot] [W/m ²] MaxStot] [W/m ²] | innel Number 100-0, 100 110GHz, I | 1.0 DAE, Calibration Date DAE(4)p 5n1002, 2023-11-60 56 Scan 2023-11-16, 15:44 1.00 Etrular Averaging 144 145 187 187 187 208 |
| m Modium Air | Validation band 94 Se SMALA not us | CW can | Cha 600 600 Probe, Calbration Data EUmm/WV3 - SN9324_FS5- 2023-05-22 Measurement Result: Oate Avg. Avas [cm ²] Avg. Type paPOne [W/m ²] paPOnet [W/m ²] paPOntet [W/m ²] Max[in] [W/m ²] Max[in] [W/m ²] Max[in] [W/m ²] Max[in] [W/m ²] | innel Number 100-0, 100 110GHz, I | 1.0 DAE, Calibration Date DAE(4)p 5n1002, 2023-11-60 56 Scan 2023-11-16, 15:44 1.00 Etrular Averaging 144 145 187 187 187 208 |
| m Modium Air | Validation band 94 Se SMALA not us | CW can | Cha 600 600 Probe, Calbration Data EUmm/WV3 - SN9324_FS5- 2023-05-22 Measurement Result: Oate Avg. Avas [cm ²] Avg. Type paPOne [W/m ²] paPOnet [W/m ²] paPOntet [W/m ²] Max[in] [W/m ²] Max[in] [W/m ²] Max[in] [W/m ²] Max[in] [W/m ²] | innel Number 100-0, 100 110GHz, I | 1.0 DAE, Calibration Date DAE(4)p 5n1002, 2023-11-60 56 Scan 2023-11-16, 15:44 1.00 Etrular Averaging 144 145 187 187 187 208 |
| Medium Ar | 90 Si S MAIA not u | can .55 | 600 Probe, Calibration Data ELimmWV3 - SN9374_F55- 2023-05-22 Measurement Result: Date Avg. Area [cm ²] Avg. Type paPOn-(W/m ²] paPOnt (W/m ²] paPOnt+ (W/m ²] Max(Stot) [W/m ²] | 100 1106Ht, 1 | DAE, Calibration Date DAE 46 5n1602, 2023-11-00 56 Scan 2023-11-15, 15:44 1.00 Circular Averaging 144 144 145 187 187 288 268 |
| Air. | 5 MAIA not u | can | EUmmWV3 - SN9324_PS5- 2023-05-22 Measurement Result: Date Avg. Type psPOne(W/m ²) psPOne(W/m ²) psPOnet (W/m ²) MaxStot([W/m ²] MaxStot([W/m ²] MaxStot([W/m ²] MaxStot([W/m ²] | 110GHz, I | DAC4ip Sn1002, 2023-11-00 2023-11-16, 15:44 1.00 Eimilar Averaging 144 145 187 187 208 208 208 |
| Air. | 5 MAIA not u | can | EUmmWV3 - SN9324_PS5- 2023-05-22 Measurement Result: Date Avg. Type psPOne(W/m ²) psPOne(W/m ²) psPOnet (W/m ²) MaxStot([W/m ²] MaxStot([W/m ²] MaxStot([W/m ²] MaxStot([W/m ²] | 110GHz, I | DAC4ip Sn1002, 2023-11-00 2023-11-16, 15:44 1.00 Eimilar Averaging 144 145 187 187 208 208 208 |
| | 5 MAIA not u | can | 2023-05-22 Measurement Result: Date Arg: Ares [cm ²] Arg: Type psPOn-(W/m ²] psPOnt+ [W/m ²] psPOnt+ [W/m ²] Mex[Shot] [W/m ²] | | 2023-11-00 365 Scan 2023-11-15, 15:44 1.00 Cirtular Averaging 144 144 145 187 187 187 268 |
| sPätran+ (i, da i ⁴⁴⁴ | 5 MAIA not u | can .55 | Oate Avg: Area [cm ²] Avg: Type psPOn+ [W/m ²] psPOnot+ [W/m ²] Max[3n] [W/m ²] Max[3n] [W/m ²] Max[Stot] [W/m ²] Max[Stot] [W/m ²] | 5 | 2023-11-15, 15:44 1.00 Cirtular Averaging 144 144 145 187 187 187 268 |
| sPErrors (), 0: | 5 MAIA not u | .55 | Avg: Ares [cm ²] Avg: Type psPOn-(W/m ²] psPOnt+(W/m ²] psPOmod+(W/m ²] MexiSin(W/m ²] MexiSin(W/m ²] MexiSin(U/m ²] Esse(V/m ²) | | 2023-11-15, 15:44 1.00 Cirtular Averaging 144 144 145 187 187 187 268 |
| aPStrate (L.Co. 144 | MALA not u | | Avg: Ares [cm ²] Avg: Type psPOn-(W/m ²] psPOnt+(W/m ²] psPOmod+(W/m ²] MexiSin(W/m ²] MexiSin(W/m ²] MexiSin(U/m ²] Esse(V/m ²) | | 1.00 Cirtular Averaging 144 144 145 187 187 187 268 |
| aPthone (Line | millicles (100/mm/2) | | Avg. Type psPDn+ (W/m ²) psPDnot+ (W/m ²) psPDnot+ (W/m ²) Mee(Snot W/m ²] Mee(Snot W/m ²] Mee(Snot W/m ²] Ever [V/m] | | 144 144 145 187 187 188 268 |
| sPätran+ (L.Gr. | mit det (Willerig) | | psPDtot+ (W/m ²) psPDtot+ (W/m ²) Mex(Sn) [W/m ²] Mex(Stot) [W/m ²] Mex(Stot) [W/m ²] Ense [V/m] | | 144 145 187 187 268 |
| sP\$trons (), 0: 1## | mill caret (Millionia) | | psPDmod+ [W/m ²] Max(3n) [W/m ²] Max(Stot] [W/m ²] Max(Stot] [W/m ²] E _{mat} [V/m] | | 145 187 187 188 268 |
| aPStrate (L.Co. 144 | millioner (Weber-2) | - | Mex(5n) [W/m ²] Mex(Stot) [W/m ²] Mex(Stot) [W/m ²] E _{me} [V/m] | | 187 187 188 268 |
| aPStront+ (1. de | mit care (Winness) | | Mex(Stot) [W/m ²] Mex(Stot]] [W/m ²] E _{met} [V/m] | | 167 188 268 |
| sPitrari+ (LOL (44 | mit care (Winneit) | | Email [V/m] | | 268 |
| sP\$troi+ (), fit | mit ang (Mjanez) | | | | |
| sP\$noi+ (Life | an Z. Kang (WW/10/2) | | Power Drift (dB) | | -0.01 |
| aPOnors (), da 194 | m3.cm; (W/m*2) | | | | |
| | | | | | |
| | | | | | |



| Measurement Report f | or 5G Ve | rification Sou | arce 60 GHz, U | ID 0 -, | Channel 60000 (6 | 0000.0MHz) | | |
|--|---------------------|------------------|-----------------|---------|--|------------------------------------|-----------------------|--|
| Device under Test Prop Name, Manufacturer | Di | mensions (mm) | | IME | | DUT Type | | |
| SG Verification Source 60 G | Hz 1/ | 00.0 x 100.0 x 1 | 10.0 | SN: 10 | 12 | 1.7 | | |
| Exposure Conditions Phantom Section | Position, 1 [mm] | est Distance | Band | Gro | ιφ, | Frequency [MHz], Channel Number | | Conversion Factor |
| 56 - | 3.59 mm | | Validation band | CW | | 60000.0, 60000 | 3 | LD |
| Hardware Setup | | | | | | | | |
| Phantom mmWave Phantom - 1002 | N A | Sedium ir | | | Probe, Calibration Da EUmmWV3 - 5N9374 | | DAE, Cali DAE4ip 5 | bration Date n1602. |
| | | | | | 2023-05-22 | | 2023-11 | |
| Scan Setup | | | 56 5 | can | Measurement Re | sults | | 5G Scan |
| NAU4 | | 97.9 97.9 | NALA not u | sen | Arg. Arag (m ²) Arg. Type psPDnt-I (W/m ²) psPDnt+I (W/m ²) psPDnts-I (W/m ²) Max(5xt) [W/m ²] Max(5xt) [W/m ²] Max(5xt) [W/m ²] Env: [V/m] Power Dnft [dB] | | | 4.00 Circular Averaging 96.6 97.9 98.3 187 188 268 -0.01 |

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| Phantom Section Position, Test Distance Band Group, (mm) Frequency (MHz), Channel Number Conversion Factor 5G - 5.55 mm Validation band CW 60000.0, 5000 1.0 | DASY Report | | | | | | |
|--|----------------------|-----------------------|-----------------|---------|---|---|---|
| Name, N | Measurement Report f | or 5G Verification So | urce 60 GHz, U | ID 0 -, | Channel 60000 (8 | 50000.0MHz) | |
| Set Verification Source 40 GPU 100.0 x 100.0 x 100.0 Set 1041 Exposure Conditions Plantom Section Project Conditions (mm) Project Conditions (mm) Conversion Pactor 56 - 5.55 mm Velidation hand C/V 00000.0. 00000 1.0 Hardware Setup Plantom mmWave Plantum - 1002 Medium Project Calibration Date Date Calibration Date Scan Setup 56 Som Conversion Factor 0.66 Calibration Date 0.66 Calibration Date Scan Setup 56 Som Som Startase (mm) 55 Som 56 Som MANA MANA not used Conversion Factor 0.66 Calibration Date Velidation Date Date Calibration Date 0.66 Calibration Date 0.66 Calibration Date Scan Setup 56 Som 50 Som 50 Som 50 Som MANA MANA not used Measurement Results 50 Som 50 Som Velidation UV/PT 100 3000 3000 3000 Velidation UV/PT 3000 3000 3000 Velidation UV/PT 30000 <t< th=""><th></th><th></th><th>2</th><th></th><th></th><th></th><th></th></t<> | | | 2 | | | | |
| Photom Section Position, Test Distance Rand Groups, Downed Number Proquest (MNHz), Scood Conversion Factor 5G - 5.55 mm Validation band CW 6000.0, 6000.0 1.0 Hardware Setup Phantom mmWave Phantum - 1002 Av Probs, Calibration Date 2023-05-22 OAE, Calibration Date 2023-11-08 Scan Setup Medium Set Son MANA Medium Value Phontune 1002 DAE, Calibration Date 2023-11-08 DAE, Calibration Date 2023-11-08 Senor Surface (nm) 56 Son MANA Set Son MANA no used Date Surface Interval Pactor (N/m) 2023-11-16, 15-M Max MANA no used Max area (cm ¹) Pactor (N/m) 303 3023-11-08 Max MANA no used Max area (cm ¹) Pactor (N/m) 302 302 Max Max Max area (cm ¹) Pactor (N/m) 303 303 Max Max Max area (cm ¹) Pactor (N/m) 303 303 Max Max Max area (cm ¹) Pactor (N/m) 303 303 Max Max area (cm ¹) Pactor (M/m) 303 303 303 | | | | | ri - | - DOT TYPE | |
| Imm Obannel Number 56- 5.55 mm Validation band CW 60000.0, 60000.0 1.0 Phantom mmWave Stetup Medium Probs, Calibration Date DAE, Calibration Date DAE, Galibration Date Scan Setup 2033-05-22 2033-05-22 2033-11-36 2033-11-36 Scan Setup Sessor Surface (mm) S55 Sam S55 Sam S55 Sam MaA MAA not used Max Area (cm ²) 2023-11-16, 15-34 2023-11-36 MAA MAA not used Are Area (cm ²) 2023-11-16, 15-34 4re Area (cm ²) 2023-11-16, 15-34 MAA MAA not used Max Area (cm ²) 2023-11-16, 15-34 4re Area (cm ²) 2023-11-16, 15-34 MAA MAA MAA not used Max Area (cm ²) 3023-11-16, 15-34 MAA MAA MAA MAA 303-30-22 Scan Setup Setup Statistic (MM ²) 141 3023-11-16, 15-34 3023-11-16, 15-34 MAA Statistic (MM ²) 142 3023-11-16, 15-34 3023-11-16, 15-34 MAA Statistic (MM ²) 145 | Exposure Conditions | | | | | | |
| Hardware Setup Medium Probe, Calibration Date DAE, Calibration Date mmWaware Stetup Etames/WV3-2998374_F55-110.014c, DAE, Calibration Date Scan Setup Seeson Surfaces (mm) Se Som Maba MADA not used Messurement Results Species (Winn) Se Som Maba MADA not used Messurement Results Species (Winn) Se Som Maba MADA not used Messurement Results Species (Winn) Se Som Swa / Species (Winn) Se Som Swa / Som / Winn) Se Som Swa / Species (Winn) Se Som Swa / Species (Se Som / Se Som Se Som Swa / Species (Se Som / | Phantom Section | | Band | Grou | <i>и</i> р, | Channel Number | Conversion Factor |
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| Phantom Section Position, Test Distance Band Group, Group, Frequency (MHz), Channel Number Conversion Factor 56 - 5.55 mm Validation hand CW 60000.0, 60000 1.0 | DASY Report | | | | | | | |
|---|---------------------|-------------|--------------|-----------------|---------|--|------------|--|
| Name, Manufacturer Dimensions (mm) MMB DUT Type S5 Verification Source 60 GHz 100.0 x 1 | Measurement Report | for 5G Ver | ification So | urce 60 GHz, U | ID 0 -, | Channel 60000 (6 | 0000.0MHz} | |
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| | | | | | | Avg. Area (cm ³) Avg. Type psPDn+ [W/m ³] psPDnot+ [W/m ³] psPDnod+ [W/m ³] Max(Sn[[W/m ³] Max(Stot) [W/m ³] Max(Stot) [W/m ³] Ease [V/m] | | 4.00 Squate Averaging 96.1 97.3 97.6 187 187 187 187 288 258 |
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