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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Multilateral Agreement for the recognition of calibration certificates

Client

Sporton

Certificate No: D2450V2-736\_Aug21

# **CALIBRATION CERTIFICATE**

Object D2450V2 - SN:736

Calibration procedure(s) QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: August 17, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

ID#	Cal Date (Certificate No.)	Scheduled Calibration
SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
SN: 7349	28-Dec-20 (No. EX3-7349_Dec20)	Dec-21
SN: 601	02-Nov-20 (No. DAE4-601_Nov20)	Nov-21
ID#	Check Date (in house)	Scheduled Check
SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
SN: MY41092317	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-21
Name	Function	Signature
Leif Klysner	Laboratory Technician	Settle-
Katja Pokovic	Technical Manager	1/26
	SN: 104778 SN: 103244 SN: 103245 SN: 8H9394 (20k) SN: 310982 / 06327 SN: 7349 SN: 601  ID # SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477  Name Leif Klysner	SN: 104778

Issued: August 25, 2021

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Certificate No: D2450V2-736\_Aug21

Page 1 of 6

# Calibration Laboratory of

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Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

TSL tissue simulating liquid

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

# Calibration is Performed According to the Following Standards:

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

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

### Additional Documentation:

c) DASY System Handbook

# Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D2450V2-736\_Aug21 Page 2 of 6

## **Measurement Conditions**

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	1.0 to 2.0 to 2.0 to 3.0 to 3.
Frequency	2450 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.9 ± 6 %	1.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	10.02	

# SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.9 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	54.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.43 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.3 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-736\_Aug21

# Appendix (Additional assessments outside the scope of SCS 0108)

## Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.3 Ω + 3.6 jΩ		
Return Loss	- 24.3 dB		

# General Antenna Parameters and Design

Electrical Delay (one direction)	1.158 ns	
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

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

#### Additional EUT Data

Manufactured by	SDEAG	
LESSY SELECTION CONTROL OF A SELECTION CONTRO	SPEAG	

Certificate No: D2450V2-736\_Aug21 Page 4 of 6

# DASY5 Validation Report for Head TSL

Date: 17.08.2021

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:736

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

Medium parameters used: f = 2450 MHz;  $\sigma = 1.87$  S/m;  $\varepsilon_r = 37.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

## DASY52 Configuration:

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

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 02.11.2020

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

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

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

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

Reference Value = 118.4 V/m; Power Drift = 0.05 dB

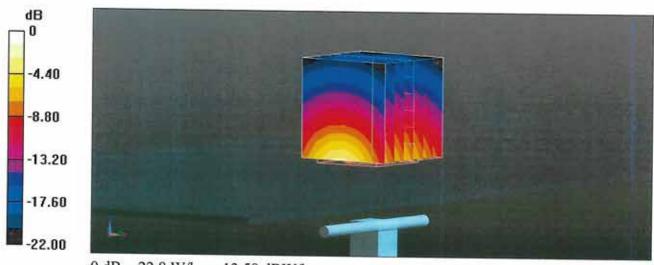
Peak SAR (extrapolated) = 27.7 W/kg

# SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.43 W/kg

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

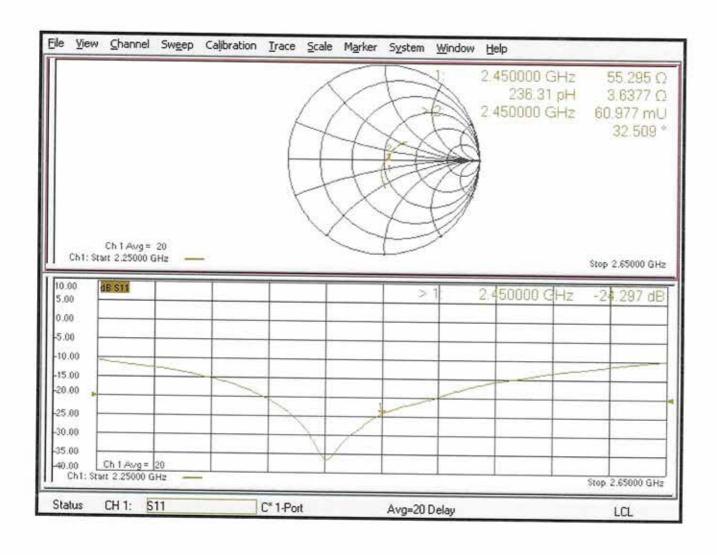
Ratio of SAR at M2 to SAR at M1 = 50.3%

Maximum value of SAR (measured) = 22.8 W/kg



0 dB = 22.8 W/kg = 13.58 dBW/kg

# Impedance Measurement Plot for Head TSL





# D2450V2, serial no. 736 Extended Dipole Calibrations

Referring to KDB 865664, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

#### <Justification of the extended calibration>

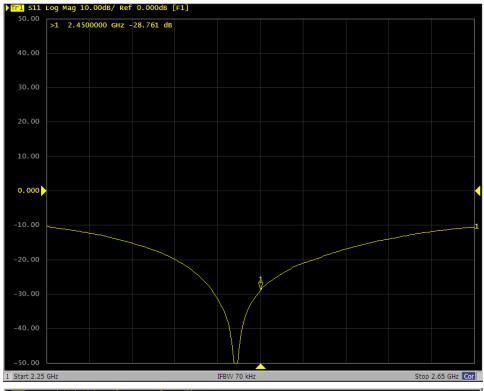
D <b>2450</b> √2 – serial no. <b>736</b>						
	2450MHZ					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
08.17.2021	-24.297	55 205 2 6277	55.295	3.6377		
(Cal. Report)	-24.291			35.293	0.0011	
08.16.2022	00.704	51.401	3.894	3.556	0.0817	
(extended)	-28.761	18.37	51.401	3.694	3.336	0.0817

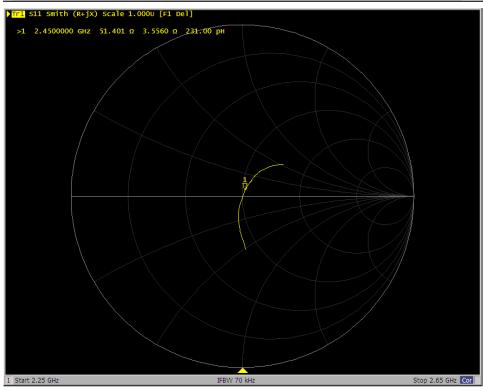
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

TEL: 886-3-327-3456 FAX: 886-3-328-4978



# <Dipole Verification Data> - D2450 V2, serial no. 736 (Data of Measurement : 08.16.2022) 2450 MHz - Head





TEL: 886-3-327-3456 FAX: 886-3-328-4978

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





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

Accreditation No.: SCS 0108

Certificate No: D2450V2-806\_Mar22

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Client

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CALIDDATION OFFICIALE

# CALIBRATION CERTIFICATE

Object D2450V2 - SN:806

Calibration procedure(s) QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: March 24, 2022

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
Type-N mismatch combination	SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
Reference Probe EX3DV4	SN: 7349	31-Dec-21 (No. EX3-7349_Dec21)	Dec-22
DAE4	SN: 601	01-Nov-21 (No. DAE4-601_Nov21)	Nov-22
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	Signature
Calibrated by:	Aldonia Georgiadou	Laboratory Technician	Made
Approved by	Niele Kuster	Quality Manager	X
Approved by:	Niels Kuster	Quality Manager	X ASS

Issued: March 28, 2022

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Certificate No: D2450V2-806\_Mar22

Page 1 of 6

# Calibration Laboratory of

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





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#### Glossary:

TSL tissue simulating liquid

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

#### Calibration is Performed According to the Following Standards:

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

#### Additional Documentation:

c) DASY System Handbook

#### Methods Applied and Interpretation of Parameters:

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

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

Page 2 of 6

Certificate No: D2450V2-806 Mar22

#### **Measurement Conditions**

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

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

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.8 ± 6 %	1.85 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

## SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.4 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-806\_Mar22

## Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	56.3 Ω + 5.5 jΩ		
Return Loss	- 22.1 dB		

#### General Antenna Parameters and Design

Electrical Delay (one direction)	1.162 ns
	AND CONTROL OF THE CO

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

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

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

#### Additional EUT Data

Manufactured by	SPEAG
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Certificate No: D2450V2-806\_Mar22 Page 4 of 6

#### **DASY5 Validation Report for Head TSL**

Date: 24.03.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:806

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

Medium parameters used: f = 2450 MHz;  $\sigma = 1.85 \text{ S/m}$ ;  $\varepsilon_r = 37.8$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

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

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 01.11.2021

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

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

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

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

Reference Value = 116.2 V/m; Power Drift = 0.09 dB

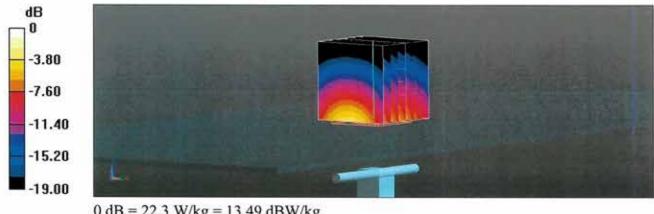
Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.18 W/kg

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

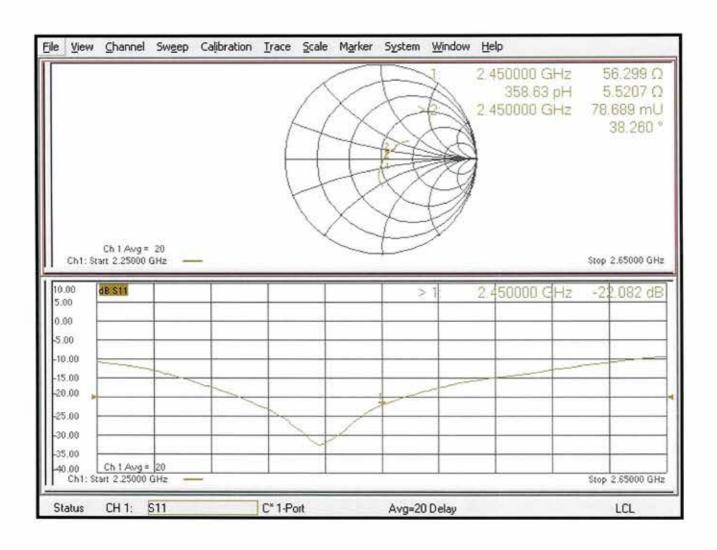
Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.49 dBW/kg

# Impedance Measurement Plot for Head TSL



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





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Accreditation No.: SCS 0108

Client

Sporton

Certificate No: D5GHzV2-1006 Sep21

# **CALIBRATION CERTIFICATE**

Object

D5GHzV2 - SN:1006

Calibration procedure(s)

QA CAL-22.v6

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date:

September 15, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

ID#	Cal Date (Certificate No.)	Scheduled Calibration
SN: 104778		Apr-22
SN: 103244		Apr-22
SN: 103245		Apr-22
SN: BH9394 (20k)		Apr-22
SN: 310982 / 06327	그 그리고 원인 지역사 시간 사람들이 위한 트림생활 지수야 !	Apr-22
SN: 3503	[기가 (1985년) [기자 (1986년 1일 전 1987년 1일 전 1980년 1일 전 1980년 1980년 1일 전 1980년 1980년 1980년 1980년 1980년 1980년 1980년 1	Dec-21
SN: 601	02-Nov-20 (No. DAE4-601_Nov20)	Nov-21
ID#	Check Date (in house)	Scheduled Check
SN: GB39512475	The state of the s	In house check: Oct-22
SN: US37292783		In house check: Oct-22
SN: MY41092317		
SN: 100972		In house check: Oct-22
SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22 In house check: Oct-21
Name	Function	Signature
Jeffrey Katzman	Laboratory Technician	A. Kohan
Katja Pokovic	Technical Manager	919,00
	SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 3503 SN: 601  ID # SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477  Name Jeffrey Katzman	SN: 104778

Issued: September 15, 2021

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Certificate No: D5GHzV2-1006\_Sep21

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#### Glossary:

TSL tissue simulating liquid

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

# Calibration is Performed According to the Following Standards:

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

#### Additional Documentation:

c) DASY System Handbook

# Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D5GHzV2-1006\_Sep21 Page 2 of 8

#### **Measurement Conditions**

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

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

# Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	4.52 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

## SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.24 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.35 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.2 W/kg ± 19.5 % (k=2)

## Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.2 ± 6 %	4.86 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-111	2222

## SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.59 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	85.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.43 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.0 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1006\_Sep21 Page 3 of 8

# Head TSL parameters at 5750 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.0 ± 6 %	5.01 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

# SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.31 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.9 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1006\_Sep21 Page 4 of 8

# Appendix (Additional assessments outside the scope of SCS 0108)

## Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	54.8 Ω - 8.9 jΩ	
Return Loss	- 20.3 dB	

#### Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	56.3 Ω - 7.4 jΩ	
Return Loss	- 20.8 dB	

## Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	60.1 Ω + 3.3 jΩ	
Return Loss	- 20.3 dB	

## General Antenna Parameters and Design

Electrical Delay (one direction)	1 100 pc
Electrical Delay (one direction)	1.199 ns

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

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

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

#### Additional EUT Data

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

Certificate No: D5GHzV2-1006\_Sep21

## **DASY5 Validation Report for Head TSL**

Date: 15.09.2021

Test Laboratory: SPEAG, Zurich, Switzerland

## DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1006

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

MHz

Medium parameters used: f = 5250 MHz;  $\sigma$  = 4.52 S/m;  $\epsilon_r$  = 34.7;  $\rho$  = 1000 kg/m³, Medium parameters used: f = 5600 MHz;  $\sigma$  = 4.86 S/m;  $\epsilon_r$  = 34.2;  $\rho$  = 1000 kg/m³, Medium parameters used: f = 5750 MHz;  $\sigma$  = 5.01 S/m;  $\epsilon_r$  = 34;  $\rho$  = 1000 kg/m³

Phantom section: Flat Section

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

#### DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.08, 5.08, 5.08) @ 5750 MHz; Calibrated: 30.12.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.11,2020
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

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

Reference Value = 78.78 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 28.2 W/kg

SAR(1 g) = 8.24 W/kg; SAR(10 g) = 2.35 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 70.6%

Maximum value of SAR (measured) = 18.5 W/kg

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

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

Reference Value = 78.99 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 8.59 W/kg; SAR(10 g) = 2.43 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 68%

Maximum value of SAR (measured) = 20.0 W/kg

Certificate No: D5GHzV2-1006\_Sep21

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

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

Reference Value = 76.50 V/m; Power Drift = 0.00 dB

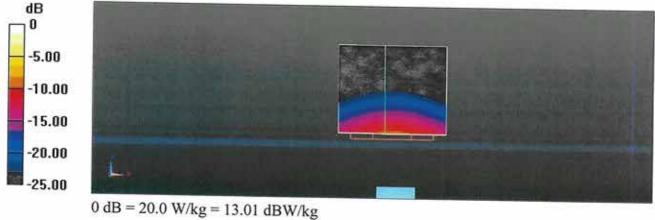
Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.31 W/kg

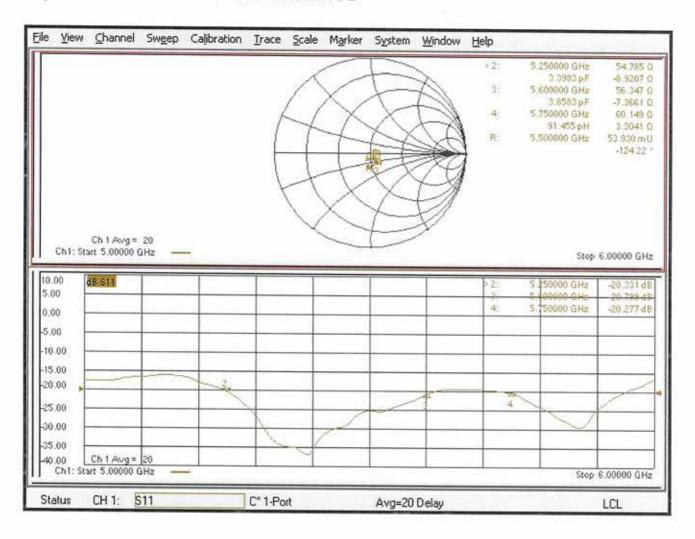
Smallest distance from peaks to all points 3 dB below = 7.4 mm

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

Maximum value of SAR (measured) = 19.6 W/kg



# Impedance Measurement Plot for Head TSL





## D5000V2, serial no. 1006 Extended Dipole Calibrations

Referring to KDB 865664, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

#### <Justification of the extended calibration>

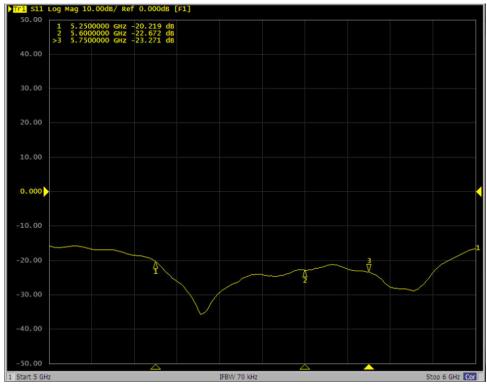
			D <b>5000</b> V2 – serial no. <b>1</b> 0	006		
			525	0MHZ		
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
9.15.2021	-20.331		54.8		-8.9	
(Cal. Report)	-20.331		54.8		-8.9	
9.14.2022	-20.219	-0.55	55.227	-0.427	-10.621	1.721
(extended)						
		T	560	0MHZ		
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
9.15.2021	-20.8		56.3		-7.4	
(Cal. Report)	-20.0		30.3		-7.4	
9.14.2022	-22.672	9.00	55.973	0.327	-8.5394	1.1394
(extended)	-22.012	3.00	30.373	0.021	-0.0004	1.1004
		5750MHZ				
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
9.15.2021	-20.3		60.1		3.3	
(Cal. Report)	-20.3		00.1		ა.ა	
9.14.2022	-23.271	14.64	59.142	0.958	0.4571	2.8429
(extended)	-20.211	17.07	55.172	0.000	0.7071	2.0723

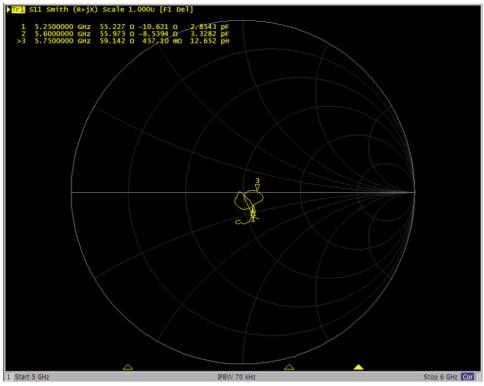
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

TEL: 886-3-327-3456 FAX: 886-3-328-4978



# <Dipole Verification Data> - D5000 V2, serial no. 1006 (Data of Measurement : 9.14.2022) 5000 MHz - Head





TEL: 886-3-327-3456 FAX: 886-3-328-4978

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





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Client

Sporton

Accreditation No.: SCS 0108

Certificate No: DAE4-853 Jul22

CALI	RD/	TIC	JUL C	POT		$\sim \Lambda$	re
UMLI	DIL	2116	JIM C		11.11	JA	

Object DAE4 - SD 000 D04 BM - SN: 853

Calibration procedure(s) QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date: July 20, 2022

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

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	31-Aug-21 (No:31368)	Aug-22
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	24-Jan-22 (in house check)	In house check: Jan-23
Calibrator Box V2.1	SE UMS 006 AA 1002	24-Jan-22 (in house check)	In house check: Jan-23

Name Function Signature
Calibrated by: Adrian Gehring Laboratory Technician

Approved by: Sven Kühn Technical Manager

Issued: July 20, 2022

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

Certificate No: DAE4-853\_Jul22

Page 1 of 5

## Calibration Laboratory of

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Multilateral Agreement for the recognition of calibration certificates

Glossary

DAE data acquisition electronics

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

coordinate system.

## Methods Applied and Interpretation of Parameters

 DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.

- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
  - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
  - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No: DAE4-853\_Jul22 Page 2 of 5

# **DC Voltage Measurement**

A/D - Converter Resolution nominal

High Range:

1LSB =

 $6.1\mu V$ ,

full range = -100...+300 mV

Low Range:

1LSB =

61nV,

full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Y	z
High Range	402.642 ± 0.02% (k=2)	403.305 ± 0.02% (k=2)	403.461 ± 0.02% (k=2)
Low Range	3.95597 ± 1.50% (k=2)	3.96656 ± 1.50% (k=2)	3.96633 ± 1.50% (k=2)

# **Connector Angle**

Connector Angle to be used in DASY system	135.0 ° ± 1 °
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Certificate No: DAE4-853\_Jul22

# Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (µV)	Difference (μV)	Error (%)
Channel X +	Input	200041.38	5.91	0.00
Channel X +	Input	20008.06	1.95	0.01
Channel X -	Input	-20005.24	0.73	-0.00
Channel Y +	Input	200041.69	6.21	0.00
Channel Y +	Input	20007.16	1.13	0.01
Channel Y -	Input	-20008.06	-1.97	0.01
Channel Z +	Input	200040.61	5.27	0.00
Channel Z +	Input	20006.00	0.07	0.00
Channel Z -	Input	-20008.11	-1.98	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.48	0.21	0.01
Channel X + Input	201.23	-0.05	-0.02
Channel X - Input	-198.56	0.02	-0.01
Channel Y + Input	2001.15	-0.04	-0.00
Channel Y + Input	200.23	-0.95	-0.47
Channel Y - Input	-199.52	-0.89	0.45
Channel Z + Input	2001.22	0.05	0.00
Channel Z + Input	200.74	-0.45	-0.22
Channel Z - Input	-199.21	-0.42	0.21

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-6.38	-8.34
	- 200	9.96	7.92
Channel Y	200	4.99	4.36
	- 200	-6.22	-6.37
Channel Z	200	1.22	0.97
	- 200	-2.03	-2.20

# 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (μV)
Channel X	200	160	2.70	-0.37
Channel Y	200	8.94	50	4.86
Channel Z	200	12.67	6.46	35

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16238	16329
Channel Y	16084	16376
Channel Z	16228	15371

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input  $10M\Omega$ 

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.28	-1.00	1.44	0.43
Channel Y	-0.20	-1.37	0.87	0.40
Channel Z	1.55	-0.63	3.30	0.67

## 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)	
Supply (+ Vcc)	+7.9	
Supply (- Vcc)	-7.6	

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 www.speag.swiss, info@speag.swiss

## IMPORTANT NOTICE

## **USAGE OF THE DAE4**

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

Battery Exchange: The battery cover of the DAE4 unit is fixed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

Shipping of the DAE: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

E-Stop Failures: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

Repair: Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

**DASY Configuration Files:** Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

#### Important Note:

Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

#### Important Note:

Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the Estop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.

#### Important Note:

To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.

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





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Accreditation No.: SCS 0108

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Client

Sporton

Certificate No: DAE4-1311 Aug22

# **CALIBRATION CERTIFICATE**

Object

DAE4 - SD 000 D04 BM - SN: 1311

Calibration procedure(s)

QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date:

August 25, 2022

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	
Keithley Multimeter Type 2001	SN: 0810278	31-Aug-21 (No:31368)	Scheduled Calibration Aug-22
Secondary Standards	ID#	Check Date (in house)	
Auto DAE Calibration Unit	SE UWS 053 AA 1001	24-Jan-22 (in house check)	Scheduled Check In house check: Jan-23
Calibrator Box V2.1	SE UMS 006 AA 1002	24-Jan-22 (in house check)	In house check: Jan-23

Calibrated by:

Name

Function

Signature

Approved by:

Sven Kühn

Dominique Steffen

Technical Manager

Laboratory Technician

Issued: August 25, 2022

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

Certificate No: DAE4-1311\_Aug22

Page 1 of 5

# Calibration Laboratory of Schmid & Partner

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#### Glossary

DAE data acquisition electronics

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

coordinate system.

# Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
  - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
  - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
  - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
  - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
  - Power consumption: Typical value for information. Supply currents in various operating modes.

# DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:

1LSB =

6.1µV,

full range = -100...+300 mV

Low Range:

1LSB =

61nV ,

full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	Х	Υ	Z
High Range	405.524 ± 0.02% (k=2)	405.066 ± 0.02% (k=2)	404.841 ± 0.02% (k=2)
		3.99409 ± 1.50% (k=2)	

# **Connector Angle**

Connector Angle to be weed in DAOV	
Connector Angle to be used in DASY system	223.0 ° ± 1 °
	220.0 21

Certificate No: DAE4-1311\_Aug22

Page 3 of 5

# Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	199996.41	0.60	0.00
Channel X + Input	20002.97	0.77	0.00
Channel X - Input	-19997.46	4.31	-0.02
Channel Y + Input	199995.96	0.22	0.00
Channel Y + Input	20000.10	-2.11	-0.01
Channel Y - Input	-20003.14	-1.34	0.01
Channel Z + Input	199998.11	2.30	0.00
Channel Z + Input	20001.96	-0.20	-0.00
Channel Z - Input	-20001.97	-0.09	0.00

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.50	0.44	0.02
Channel X + Input	201.39	-0.06	-0.03
Channel X - Input	-197.37	1.04	-0.52
Channel Y + Input	2001.08	0.11	0.01
Channel Y + Input	200.96	-0.48	-0.24
Channel Y - Input	-199.11	-0.68	0.34
Channel Z + Input	2001.13	0.18	0.01
Channel Z + Input	200.95	-0.39	-0.20
Channel Z - Input	-198.92	-0.38	0.19

# 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	13.93	12.35
	- 200	-10.77	-12.46
Channel Y	200	-14.14	-13.80
	- 200	12.30	11.84
Channel Z	200	-18.13	-18.31
	- 200	16.94	16.95

# 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (µV)	Channel Z (µV)
Channel X	200		3.58	-2.53
Channel Y	200	9.06		5.35
Channel Z	200	9.97	6.34	3.63

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15434	15594
Channel Y	16317	15513
Channel Z	16570	16778

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	1.41	-0.17	2.80	0.66
Channel Y	0.30	-1.26	1.69	0.54
Channel Z	0.39	-0.99	1.71	0.54

# 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

	Typical values
.9	Supply (+ Vcc)
20.0	Supply (- Vcc)
7.	Supply (- Vcc)

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

s p e a

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 www.speag.swiss, info@speag.swiss NAEY 13M Sporeor

# IMPORTANT NOTICE

#### USAGE OF THE DAF4

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

Battery Exchange: The battery cover of the DAE4 unit is fixed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

**Shipping of the DAE**: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

**E-Stop Failures**: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

Repair: Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

DASY Configuration Files: Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

#### Important Note:

Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

#### Important Note:

Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the Estop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.

#### Important Note:

To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.

#### Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst

Service suisse d'étalonnage Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

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

Client

Sporton

Certificate No

EX-7306 Jul22

## **CALIBRATION CERTIFICATE**

Object

EX3DV4 - SN:7306

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5,

QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date

July 28, 2022

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

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

Calibration Equipment used (M&TE critical for calibration)

Power meter NRP	SN: 104778	Cal Date (Certificate No.)	Scheduled Calibration
	014. 104778		ourodated Calibration
Power sensor NRP-Z91	CN: 100011	04-Apr-22 (No. 217-03525/03524)	Apr-23
OCP DAK-3.5 (weighted)	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
	SN: 1249	20-Oct-21 (OCP-DAK3.5-1249 Oct21)	Oct-22
OCP DAK-12	SN: 1016	20-Oct-21 (OCP-DAK12-1016_Oct21)	Oct-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	7.77.77
DAE4	SN: 660	12 Oct 21 (No. 217-03327)	Apr-23
Reference Probe ES3DV2	SN: 3013	13-Oct-21 (No. DAE4-660_Oct21)	Oct-22
200012	014. 3013	27-Dec-21 (No. ES3-3013_Dec21)	Dec-22

Secondary Standards	ID	L'Obert Britis	
Power meter E4419B		Check Date (in house)	Scheduled Check
	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	
Power sensor E4412A	SN: 000110210	OC Apr 10 (in house check duri-22)	In house check: Jun-24
RF generator HP 8648C		06-Apr-16 (in house check Jun-22)	In house check: Jun-24
	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
		( Control of Col 20)	I III House check: Oct-22

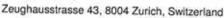
	Name	Function	Signature
Calibrated by	Leif Klysner	Laboratory Technician	Sef My
Approved by	Sven Kühn	Technical Manager	Sa

Issued: August 1, 2022

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

#### Calibration Laboratory of

Schmid & Partner Engineering AG







Schweizerischer Kalibrierdienst

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S Swiss Calibration Service

Accreditation No.: SCS 0108

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

#### Glossary

TSL tissue simulating liquid NORMx,y,z sensitivity in free space ConvF sensitivity in TSL / NORMx,y,z DCP diode compression point

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

Polarization  $\varphi$  $\varphi$  rotation around probe axis

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

normal to probe axis

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

## Calibration is Performed According to the Following Standards:

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

#### Methods Applied and Interpretation of Parameters:

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

Certificate No: EX-7306 Jul22 Page 2 of 22 EX3DV4 - SN:7306

## Parameters of Probe: EX3DV4 - SN:7306

#### **Basic Calibration Parameters**

2.4	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (μV/(V/m) <sup>2</sup> ) A	0.48	0.58	0.46	
DCP (mV) B	101.7	99.0	***************************************	±10.1%
	.,,,,,	99.0	102.8	±4.7%

July 28, 2022

## Calibration Results for Modulation Response

UID 0	Communication System Name		A dB	$dB\sqrt{\mu V}$	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> k = 2		
U	CW .	X	0.00	0.00	1.00	0.00	155.5	±3.3%	±4.79		
	1	Y	0.00	0.00	1.00	0.755550	156.6	1 20.070	- A-75 F. C		
10352	Dulas Ward (000)	Z	0.00	0.00	1.00	ř	154.7	1			
10332	Pulse Waveform (200Hz, 10%)	X	3.31	68.85	11.40	10.00	60.0	±3.4%	±9.69		
		Y	3.67	69.24	11.83	N SEE	60.0	1 20.770	20.07		
10353	Dulas IV.	Z	3.61	69.80	11.94		60.0				
10333	Pulse Waveform (200Hz, 20%)	X	20.00	84.44	14.89	6.99	80.0	±2.1%	±9.69		
		Y	4.51	72.44	12.16	-	80.0		±3.07		
10354	Dele West	Z	5.86	75.78	12.83		80.0	i .			
10354	Pulse Waveform (200Hz, 40%)	X	20.00	82.73	12.68	3.98	95.0	±1.3%	±9.6%		
		Y	20.00	84.86	14.74		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		95.0	1.076	13.07
10055	5.1 1/1	Z	20.00	83.57	13.20	1	95.0	1			
10355	Pulse Waveform (200Hz, 60%)	X	0.24	60.00	4.23	2.22	120.0		±9.6%		
	32 AM 75 14 17	Y	20.00	86.07	14.36		120.0	21.270	±3.07		
10007	200	Z	0.29	60.58	4.86	7/	120.0	1			
10387	QPSK Waveform, 1 MHz	X	1.77	69.39	16.23	1.00	150.0	±3.1%	±9.6%		
		Y	1.79	66.72	15.46		150.0	10.176	E3.076		
10000	OBOWN	Z	1.42	65.51	13.79	- 3	150.0				
10388	QPSK Waveform, 10 MHz	X	2.31	69.88	16.82	0.00	150.0	±1.4%	±9.6%		
		Y	2.42	69.00	16.22		150.0	21.470	±3.07		
10000		Z	1.94	66.58	14.78	1	150.0				
10396	64-QAM Waveform, 100 kHz	X	2.51	70.04	19.21	3.01	150.0	±1.5%	±9.6%		
		Y	2.51	67.84	17.93	0.01	150.0	I1.076	IS.0%		
10000		Z	2.34	67.78	17.48	- 1	150.0				
0399	64-QAM Waveform, 40 MHz	X	3.53	67.81	16.29	0.00	150.0	±2.4%	±9.6%		
- 1		Y	3.51	66.95	15.78	2100	150.0	±€.470	E9.0%		
0444	We will also a second	Z	3.32	66.53	15.34		150.0				
0414	WLAN CCDF, 64-QAM, 40 MHz	X	4.80	66.08	15.92	0.00	150.0	±4.0%	±9.6%		
		Y	4.88	65.41	15.51	3.00	150.0	14.076	±3.0%		
		Z	4.66	65.49	15.37	-	150.0				

Note: For details on UID parameters see Appendix

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

B Linearization parameter uncertainty for maximum specified field strength.

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

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

## Parameters of Probe: EX3DV4 - SN:7306

## Sensor Model Parameters

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 msV <sup>-2</sup>	T2 msV <sup>-1</sup>	T3 ms	T4 v-2	T5 v-1	Т6
X	35.8	271.60	36.72	6.00	0.00	22.00	3.000	1.00	
V	50.7	387.55				5.05	0.49	0.21	1.01
7	A10-0-10-1		36.98	16.87	0.00	5.02	0.00	0.39	1.01
4	34.2	256.86	35.88	6.11	0.00	5.05	0.61	0.21	
				1000000		7.57.75	0.01	0.21	1.0

### Other Probe Parameters

Sensor Arrangement	
Connector Angle	Triangular
Mechanical Surface Detection Mode	-122.6°
Optical Surface Detection Mode	enabled
Probe Overall Length	disabled
Probe Body Diameter	337 mm
Tip Length	10 mm
Tip Diameter	9 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1 mm
ote: Measurement distance from surface and burlace	1.4 mm

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

EX3DV4 - SN:7306

#### Parameters of Probe: EX3DV4 - SN:7306

## Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
13	55.0	0.75	16.39	16.39	16.39	0.00	1.00	±13.3%
750	41.9	0.89	10.07	10.07	10.07	0.42	0.96	±12.0%
835	41.5	0.90	9.75	9.75	9.75	0.33	1.03	±12.0%
900	41.5	0.97	9.57	9.57	9.57	0.39	0.91	±12.0%
1750	40.1	1.37	8.43	8.43	8.43	0.31	0.86	±12.0%
1900	40.0	1.40	8.23	8.23	8.23	0.30	0.86	±12.0%
2000	40.0	1.40	8.14	8.14	8.14	0.32	0.86	±12.0%
2300	39.5	1.67	7.68	7.68	7.68	0.36	0.90	±12.0%
2450	39.2	1.80	7.54	7.54	7.54	0.32	0.90	±12.0%
2600	39.0	1.96	7.44	7.44	7.44	0.39	0.90	±12.0%
3300	38.2	2.71	6.93	6.93	6.93	0.30	1.35	±14.0%
3500	37.9	2.91	6.89	6.89	6.89	0.30	1.35	±14.0%
3700	37.7	3.12	6.82	6.82	6.82	0.30	1.35	±14.0%
3900	37.5	3.32	6.38	6.38	6.38	0.40	1.60	±14.0%
4100	37.2	3.53	6.35	6.35	6.35	0.40	1.60	±14.0%
4400	36.9	3.84	6.10	6.10	6.10	0.40	1.70	±14.0%
4600	36.7	4.04	6.08	6.08	6.08	0.40	1.70	±14.0%
4800	36.4	4.25	6.05	6.05	6.05	0.40	1.80	±14.0%
4950	36.3	4.40	5.84	5.84	5.84	0.40	1.80	±14.0%
5250	35.9	4.71	5.34	5.34	5.34	0.40	1.80	±14.0%
5600	35.5	5.07	4.66	4.66	4.66	0.40	1.80	±14.0%
5750	35.4	5.22	4.96	4.96	4.96	0.40	1.80	±14.0%

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

At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated terroal fiscular comments.

values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

EX3DV4 - SN:7306 July 28, 2022

### Parameters of Probe: EX3DV4 - SN:7306

## Calibration Parameter Determined in Head Tissue Simulating Media

Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup>	Unc (k = 2)
34.5	6.07	5.05	5.05	5.05	0.20	1000000	±18.6%
32.7	7.84	4 90	4.00	08-903870	A PENER DE	- ACCUSANCE III	±18.6%
	34.5	Permittivity <sup>F</sup> (S/m) 34.5 6.07	PermittivityF         (S/m)           34.5         6.07         5.05	Permittivity <sup>F</sup> (S/m)  34.5 6.07 5.05 5.05	Permittivity <sup>F</sup> (S/m)  34.5 6.07 5.05 5.05 5.05	Permittivity <sup>F</sup> (S/m) 5.05 5.05 0.20	Permittivity <sup>F</sup> (S/m) Solve 2 Alpha Depth (mm) 34.5 6.07 5.05 5.05 5.05 0.20 2.50

C Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration

Certificate No: EX-7306\_Jul22

frequency and the uncertainty for the indicated frequency band.

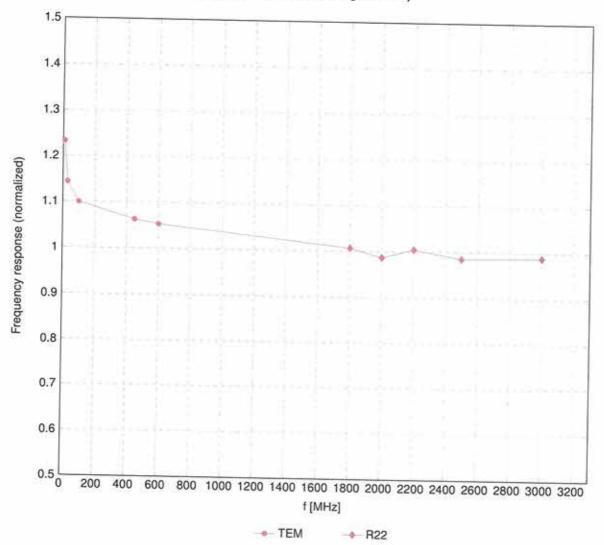
F At frequencies 6–10 GHz, the validity of tissue parameters ( $\varepsilon$  and  $\sigma$ ) can be relaxed to  $\pm 10\%$  if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3-6 GHz; and below ±4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

EX3DV4 - SN:7306 July 28, 2022

## Frequency Response of E-Field

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

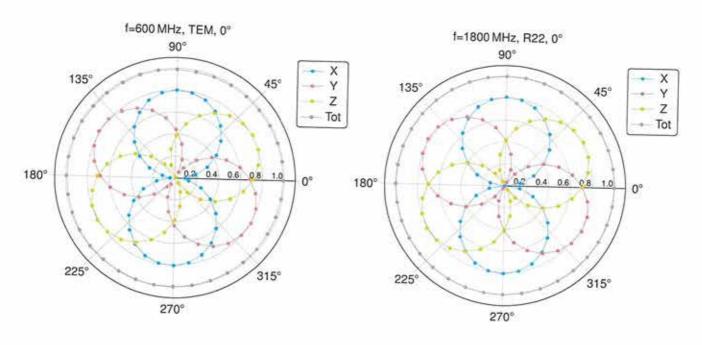


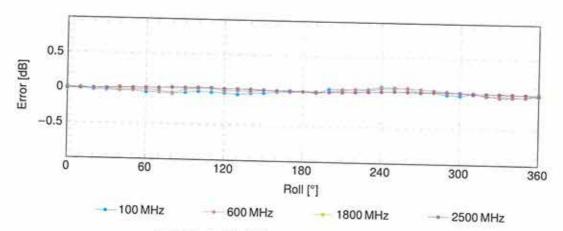
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

EX3DV4 - SN:7306

July 28, 2022

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





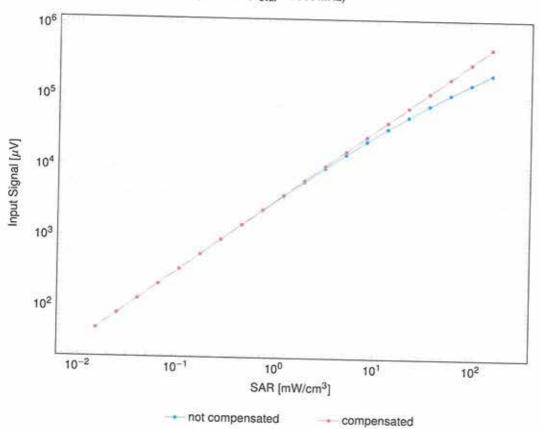
Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

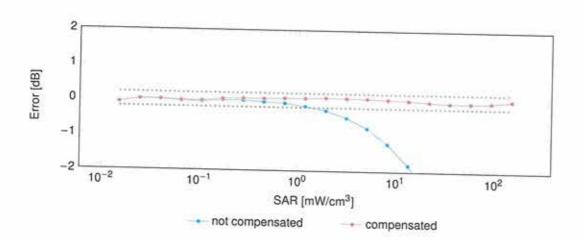
EX3DV4 - SN:7306

July 28, 2022

# Dynamic Range f(SAR<sub>head</sub>)

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

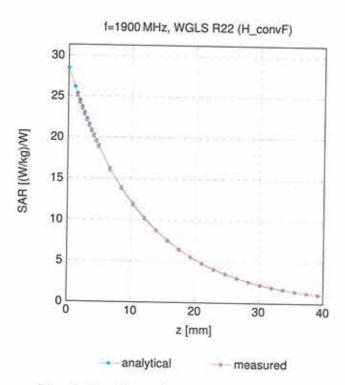




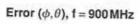
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  (k=2)

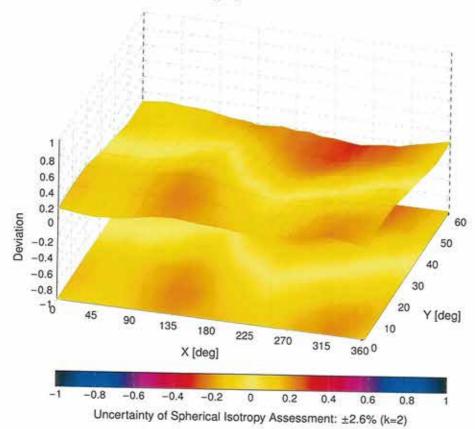
EX3DV4 - SN:7306 July 28, 2022

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid





EX3DV4 - SN:7306 July 28, 2022

## **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10010	CAA	1.7.77	CW	0.00	±4.7
10011	CAB	SAR Validation (Square, 100 ms, 10 ms) UMTS-FDD (WCDMA)	Test	10.00	±9.6
10012	CAB		WCDMA	2.91	±9.6
10013	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	1.87	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	WLAN	9.46	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.39	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	9.57	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	6.56	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	12.62	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	9.55	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	4.80	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM GSM	3.55	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	7.78	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	5.30 1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth		±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
0035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
0037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
0038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
0039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
0042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
0044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
0048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
0049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
0056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
0058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
0059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
0060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
0061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
0062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
0064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
0065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
0066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
0067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
0068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.12	±9.6
0069	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
0071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	10.56	±9.6
0072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9Mbps)	WLAN	9.83	±9.6
100000	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
the state of the s	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	9.94	±9.6
-	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
0076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.77	±9.6
0077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	10.94	±9.6
0081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	11.00	±9.6
2800	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	3.97	±9.6
-	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
-	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
-	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
-	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
Property in the	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
-	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
-	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
-	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
the state of the last	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
- Contract of the	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
-	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
-	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
111	CAG	LTE-FDD (SC-FDMA, 100% R8, 5MHz, 16-QAM)	LTE-FDD	6.44	±9.6

Certificate No: EX-7306\_Jul22

10112	CAG	William Color O'Stein Hallie	Group	PAR (dB)	UncE k =
10113	1000	1 1 100 10 mm, 100% nb, 10 MHZ, 64-QAM)	LTE-FDD	6.59	±9.6
10114	CAG	1	LTE-FDD	6.62	±9.6
10115	CAG	The section of the creeking to Swipps, BPSK1	WLAN	8.10	±9.6
10116	CAG	The section (FF Greenheld, 61 MDDS, 16-CAM)	WLAN	8.46	±9.6
10117	CAG	The social first differenced, 135 Mods, 64-CJAMI	WLAN	8.15	±9.6
10118	CAD	THE SOLL THE WILLIAM TO SWIDDS, BPSKI	WLAN	8.07	±9.6
10119	CAD	The Control of Michael Control o	WLAN	8.59	±9.6
10140	CAD	The section (111 Mixed, 133 MODS, 64-QAM)	WLAN	8.13	±9.6
10141	CAD	1 1 1 1 1 1 1 1 -	LTE-FDD	6.49	±9.6
10142	CAD	1 100 1 01417, 100 % ND, 13 MHZ, 64-(JAM)	LTE-FDD	6.53	±9.6
10143	CAD	The state of the s	LTE-FDD	5.73	±9.6
10144	CAC	The Control of the Co	LTE-FDD	6.35	±9.6
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)  LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	6.65	±9.6
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.72	±9.6
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20MHz, QPSK)	LTE-TOD	9.28	±9.6
10153	CAE	LTE-TOD (SC-PDMA, 50% RB, 20MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10154	CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	10.05	±9.6
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)  LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	5.75	±9.6
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	6.43	±9.6
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	5.79	±9.6
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM) LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-FDD	6.56	±9.6
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	5.46	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.21	±9.6
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.79	±9.6
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)	LTE-FDD	5.73	±9.6
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.52	±9.6
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.49	±9.6
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TOD	9.48	±9.6
0175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	10.25	±9.6
0176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	5.72	±9.6
0177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD	6.52	±9.6
0178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	5.73	±9.6
0179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.52	±9.6
0180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
0181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	6.50	±9.6
minutes of the second	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	5.72	±9.6
0183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.52	±9.6
0184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	6.50	±9.6
0185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	5.73	±9.6
	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.51	±9.6
	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	6.50	±9.6
	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD LTE-FDD	5.73	±9.6
-	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.52	±9.6
-	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	6.50	±9.6
-	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.09	±9.6
-	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.12	±9.6
-	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.21	±9.6
-	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.10	±9.6
and the second second	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.13	±9.6
	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)		8.27	±9.6
220 A	AF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.03	±9.6
industrial and the second	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8,13	±9.6
-	AC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.27	±9.6
223 C	AD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.06	±9.6
224 C	AD I	EEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.48	±9.6
		The maps, or covery	WLAN	8.08	±9.6

10225	Re	value in Cystem reame	Group	PAR (dB)	UncE k =
10226	-		WCDMA	5.97	±9.6
10227	10-00	( CO CONTACT TO THE TOTAL TO CAME)	LTE-TDD	9.49	±9.6
10228	1.00	1 ( ( ) (	LTE-TDD	10.26	±9.6
10229	-	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-TDD	9.22	±9.6
10230	des la constitución de la consti	C LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10231	CA	( Control of the Iz. O4 CANN)	LTE-TDD	10.25	±9.6
10232	10.50	D LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TOD	9.19	±9.6
10233	-	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10234		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	10.25	±9.6
10235	CAL	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10236	CAL	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10237	CAL	LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK)	LTE-TDD	10.25	±9.6
10238	CAE	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10239	CAE	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10240	CAE	LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDD	10.25	±9.6
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.82	±9.6
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.86	±9.6
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LTE-TDD	9.46	±9.6
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-TDD	10.06	±9.6
10247	CAG	The root of the root of the state of the sta	LTE-TDD	9.30	±9.6
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-TDD	9.91	±9.6
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TDD	10.09	±9.6
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.29	±9.6
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	9.81	±9.6
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	10.17	±9.6
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.24	±9.6
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	9.90	±9.6
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	10.14	±9.6
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.20	±9.6
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.96	±9.6
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	10.08	±9.6
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.34	±9.6
10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.98	±9.6
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	9.97	±9.6
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.24	±9.6
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-TDD	9.83	±9.6
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TDD	10.16	±9.6
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.23	±9.6
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	9.92	±9.6
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	10.07	±9.6
0268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-TDD	9.30	±9.6
0269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
0270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	10.13	±9.6
The second second	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	LTE-TDD	9.58	±9.6
0275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
or the latest designation of the latest desi	CAD	PHS (QPSK)	WCDMA	3.96	±9.6
Sandal Control	CAD	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
0279	CAG	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	11.81	±9.6
0290	CAG	CDMA2000, RC1, SO55, Full Rate	PHS	12.18	±9.6
0291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.91	±9.6
0292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.46	±9.6
0293 (	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.39	±9.6
0295 (	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	3.50	±9.6
0297 (	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	CDMA2000	12.49	±9.6
0298 (	CAF	LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FDD	5.81	±9.6
	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	5.72	±9.6
0300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)	LTE-FDD	6.39	±9.6
0301	CAC	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	LTE-FDD	6.60	±9.6
302 0	CAB	IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.03	±9.6
303 (	CAB	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12,57	±9.6
304 C	CAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9.6
	CAA	IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC)	WiMAX	11.86	±9.6
-	Company of the Compan	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC)	WiMAX	15.24	±9.6
177		(LSCIO, TOMS, TOMMZ, 64QAM, PUSC)	WIMAX	14.67	±9.6

10307		The state of the s	Group	PAR (dB)	UncE k =
10308		THE COLLING WINNAY (23.10, 10 MS, 10 MHz (195K D) (20.1	WiMAX	14.49	±9.6
10308		THE POLICE TO THE PARTY OF THE	WiMAX	14.46	±9.6
10310	-	23.10, 10ms, 10MHz, 16OAM AMC 223	WiMAX	14.58	±9.6
10311		IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, OPSK, AMC 2v2	WiMAX	14.57	
10313		5 LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
			IDEN	10.51	-
10314	7.00.00		IDEN	13.48	±9.6
10315	-	The second will be a direct to a second delay	WLAN	1.71	±9.6
10316		D   IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc de)	WLAN		±9.6
10317	-	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	±9.6
10352		Pulse Waveform (200 Hz, 10%)	Generic	8.36	±9.6
10353	-	1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Generic	10.00	±9.6
10354	-	1 5 5 5 THAT COUNTY (200 FIZ. 40%)	Generic	6.99	±9.6
10355	-	1 - 5 - 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Generic	3.98	±9.6
10356	1 1 1 1	Pulse Waveform (200 Hz, 80%)		2.22	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	0.97	±9.6
10388	AAA		Generic	5.10	±9.6
10396	AAA		Generic	5.22	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAD	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc dc)	Generic	6.27	±9.6
10401	AAA	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc dc)	WLAN	8.37	±9.6
10402	AAA	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc dc)	WLAN	8.60	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	WLAN	8.53	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.76	±9.6
10406	AAD	CDMA2000 (TXEV-DO, Hev. A) CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	3.77	±9.6
10410	AAA	LTE-TDD (SC EDMA 1 CD (CAN)	CDMA2000	5.22	±9.6
10414	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TOD	7.82	±9.6
10415	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10416	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	±9.6
10417	3100000	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	
	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99nc dc)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99nc, Short)	WLAN		±9.6
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.19	±9.6
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.32	±9.6
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.47	±9.6
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.40	±9.6
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-OAM)	WLAN	8.41	±9.6
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbos, 64-OAM)	WLAN	8.45	±9.6
10430	AAB	LTE-FDD (OFDMA, 5MHz, E-TM 3.1)	LTE-FDD	8.41	±9.6
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)		8.28	±9.6
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	LTE-FDD	8.34	±9.6
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	WCDMA	8.60	±9.6
10447	AAA	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.82	±9.6
0448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10449	AAC	LTE-FDD (OFDMA, 15MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.6
-	AAA	LTE-FDD (OFDMA, 20MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	±9.6
-	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	LTE-FDD	7.48	±9.6
-	AAC	Validation (Square, 10 ms, 1 ms)	WCDMA	7.59	±9.6
-	AAC	IEEE 802 11ac WEL (1904)	Test	10.00	±9.6
-	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc dc) UMTS-FDD (DC-HSDPA)	WLAN	8.63	±9.6
-	AAC		WCDMA	6.62	±9.6
	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
-	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
	100000	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
-	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TOD	7.82	±9.6
0461	MAG	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	±9.6
0461	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	-
0461 0462 0463	AAD		Secretary Company Comp	and the second s	±9.6
0461 0462 0463 0464	AAD	LIE-TOD (SC-FDMA, 1 RB, 3 MHz, QPSK, LIL Sub)	LTE-TDD	7.82	
0461 / 0462 / 0463 / 0464 / 0465 /	AAD AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	±9.6
0461 0462 0463 0464 0465 0466	AAD AAC AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.32	±9.6
0461 / 0462 / 0463 / 0464 / 0465 / 0466 /	AAD AAC AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.32 8.57	±9.6 ±9.6
0461 0462 0463 0464 0465 0466 0467 0468	AAD AAC AAC AAA AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL, Sub)	LTE-TDD LTE-TDD LTE-TDD	8.32 8.57 7.82	±9.6 ±9.6 ±9.6
0461 0462 0463 0463 0464 0465 0466 0467 0468 0469 0469	AAD AAC AAC AAA AAF AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL, Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL, Sub)	LTE-TDD LTE-TDD LTE-TDD LTE-TDD	8.32 8.57 7.82 8.32	±9.6 ±9.6 ±9.6 ±9.6
0461 / 0462 / 0463 / 0464 / 0465 / 0466 / 0467 / 0468 / 0469 / 0470 / 04	AAD AAC AAC AAA AAF AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD LTE-TDD LTE-TDD	8.32 8.57 7.82	±9.6 ±9.6 ±9.6

10472	Re 2 AA	Name Notion System Name	Group	PAR (dB)	UncE k =
10473		THE TOWN, I NO, TOWN, 64-QAM, UL SUN	LTE-TDD	8.57	±9.6
10474		C LTE-TDD (SC-FDMA, 1 RB, 15MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6
10475	Action to the second second	D LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM, UL Sub)	LTE-TOD	8.32	±9.6
10477	A	C LTE-TDD (SC-FDMA, 1 RB, 15MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6
10478		C LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM, UL Sub)	LTE-TDD	8.32	±9.6
10479	AAI	C LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TOO	8.57	±9.6
10480	AA	A LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	7.74	±9.6
10481	AA	A LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	±9.6
10482	AA	A LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	8.45	±9.6
10483	AA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	7.71	±9.6
10484	AAE	B LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM, UL Sub)	LTE-TDD	8.39	±9.6
10485	AAE	B LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.47	±9.6
10486	AAE	B LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM, UL Sub)	LTE-TDD	7.59	±9.6
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.38	±9.6
10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	8.60	±9.6
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	7.70	±9.6
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.31	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	8.54	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	7.74	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.41	±9.6
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	8.55	±9.6
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	7.74	±9.6
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.37	±9.6
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TOD	8.54	±9.6
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	7.67	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.40	±9.6
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	8.68	±9.6
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	7.67	±9.6
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.44	±9.6
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Sub)	LTE-TDD	8.52	±9.6
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM, UL Sub)	LTE-TDD	7.72	±9.6
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM, UL Sub)	LTE-TDD	8.31	±9.6
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	8.54	±9.6
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	7.74	±9.6
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.36	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	8.55	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	7.99	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM, UL Sub)	LTE-TDD	8.49	±9.6
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TOD	8.51	±9.6
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	7.74	±9.6
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TOD	8.42	±9.6
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	LTE-TDD	8.45	±9.6
0516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.58	±9.6
0517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.57	±9.6
management of the second	AAF	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	1.58	±9.6
-	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.23	±9.6
-	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.39	±9.6
Contract to Contra	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	8.12	±9.6
recipio ana il constituto di	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	7.97	±9.6
-	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.45	±9.6
The second second	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99nc dc)	WLAN	8.08	±9.6
-	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 99oc dc)	WLAN	8.27	±9.6
The state of the s	AAF	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc dc)	WLAN	8.36	±9.6
the Street or other Designation of the Street or other Designation or ot	AAF	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc dc)	WLAN	8.42	±9.6
-	AAF	IEEE 802,11ac WiFi (20 MHz, MCS3, 99pc dc)	WLAN	8.21	±9.6
-	AAF	IEEE 802.11ac WiFi (20 MHz, MCS4, 99nc dc)	WLAN	8.36	±9.6
***************************************	AAF	IEEE 802.11ac WiFi (20 MHz, MCS6, 99oc dc)	WLAN	8.36	±9.6
	AAF	IEEE 802.11ac WiFi (20 MHz, MCS7, 99cc dc)	WLAN	8.43	±9.6
	AAE	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc dc)	WLAN	8.29	±9.6
The second second	AAE	IEEE 802.11ac WiFi (40 MHz, MCS0, 99oc dc)	WLAN	8.38	±9.6
- Contractor	AAE	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc dc)	WLAN	8.45	±9.6
and the same of	AAF	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc dc)	WLAN	8.45	±9.6
	(AF	IEEE 802,11ac WiFi (40 MHz, MCS3, 99oc dc)	WLAN	8.32	±9.6
-	AF	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc dc)	WLAN	8.44	±9.6
540 A	AA	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc dc)	WLAN	8.54	±9.6
	-	vopo doj	WLAN	8.39	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10541		1 (40 MH 12, MICS), 88DC QCI	WLAN	8.46	±9.6
10542		The second of th	WLAN	8.65	±9.6
10544		The section of the factorial factori	WLAN	8.65	±9.6
10544	11.7.7.7	The second of the footing is, Micoo, aabc dc)	WLAN	8.47	±9.6
10546	10000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WLAN	8.55	±9.6
10547	100000	The section of the footenite, Mode, 9900 dol	WLAN	8.35	±9.6
10548	1.000	(00 Mil 12, MO33, 93DC QC)	WLAN	8.49	±9.6
10550	1.00		WLAN	8.37	±9.6
10551	100		WLAN	8.38	±9.6
10552	2.5	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc dc)	WLAN	8.50	±9.6
10553	12100 198	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc dc)	WLAN	8.42	±9.6
10554		IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc dc)	WLAN	8.45	±9.6
10555	1.0.10	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc dc)	WLAN	8.48	±9.6
10556	17,75	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc dc)	WLAN	8.47	±9.6
10557	AAC	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc dc)	WLAN	8.50	±9.6
10558	AAC	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc dc)	WLAN	8.52	±9.6
10560	AAC	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc dc)	WLAN	8.61	±9.6
10561	AAC	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc dc)	WLAN	8.73	±9.6
10562	AAC	IEEE 802.11ac WIFI (160 MHz, MCS7, 99pc dc)	WLAN	8.56	±9.6
10563	AAC	IEEE 802.11ac WIFI (160 MHz, MCS8, 99pc dc)	WLAN	8.69	±9.6
10564	AAC	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc dc)	WLAN	8.77	±9.6
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8,25	±9.6
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.45	±9.6
10567	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	±9.6
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	±9.6
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.37	±9.6
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	±9.6
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	±9.6
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	±9.6
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2Mops, 90pc dc)	WLAN	1.99	±9.6
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mops, 90pc dc)	WLAN	1.98	±9.6
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	1.98	±9.6
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.59	±9.6
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.60	±9.6
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.70	±9.6
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 16 Mbps, 90pc dc)	WLAN	8.49	±9.6
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.36	±9.6
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.76	±9.6
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.35	±9.6
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.67	±9.6
10584	AAD	IEEE 802,11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.59	±9.6
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.60	±9.6
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.70	±9.6
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.49	±9.6
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.36	±9.6
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.76	±9.6
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.35	±9.6
10591	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc dc)	WLAN	8.67	±9.6
10592	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc dc)	WLAN	8.63	±9.6
10593	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc dc)	WLAN	8.79	±9.6
10594	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc dc)	WLAN	8.64	±9.6
0595	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc dc)	WLAN	8.74	±9.6
0596	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc dc)	WLAN	8.74	±9.6
0597	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc dc)	WLAN	8.71	±9.6
-	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc dc)	WLAN	8.72	±9.6
-	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc dc)	WLAN	8.50	±9.6
-	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc dc)	WLAN	8.88	±9.6
-	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc dc)	WLAN	8.82	±9.6
-	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc dc)	WLAN	8.94	±9.6
Contract of the Contract of th	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc dc)	WLAN	9.03	±9.6
MARKET THE PARKET	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc dc)	WLAN	8.76	±9.6
	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc dc)	WLAN	8.97	±9.6
-	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc dc)	WLAN	8.82	±9.6
0607	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc dc)	WLAN	8.64	±9.6
0608	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc dc)	100 0000 000	0.04	23.0

10609	Rev	Communication System Name	Group	PAR (dB)	UncE k = 2
10610		The sould start the start that the s	WLAN	8.57	±9.6
10611		IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc dc) IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc dc)	WLAN	8.78	±9.6
10612	10000	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc dc)	WLAN	8.70	±9.6
10613		IEEE 802.11ac WiFi (20 MHz, MCSS, 90pc dc)	WLAN	8.77	±9.6
10614		IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc dc)	WLAN	8.94	±9.6
10615		IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc dc)	WLAN	8.59	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc dc)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc dc)	WLAN	8.82	±9.6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc dc)	WLAN	8.81	±9.6
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc dc)	WLAN	8.58	±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc dc)	WLAN	8.86	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc dc)	WLAN WLAN	8.87	±9.6
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc dc)	WLAN	8.77	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc dc)	WLAN	8.68	±9.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6
10625	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc dc)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc dc)	WLAN	8.96	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc dc)	WLAN	8.83	±9.6
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc dc)	WLAN	8.88	±9.6
10629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc dc)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc dc)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc dc)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc dc)	WLAN	8.74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc dc)	WLAN	8.83	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc dc)	WLAN	8.80	±9.6
10636	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc dc)	WLAN	8.81	±9.6
10637	AAC	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc dc)	WLAN	8.83	±9.6
10638	AAC	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc dc)	WLAN	8.79	±9.6
10639	AAC	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc dc)	WLAN	8.86	±9.6
10640	AAC	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc dc) IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc dc)	WLAN	8.85	±9.6
10641	AAC	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc dc)	WLAN	8.98	±9.6
10642	AAC	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc dc)	WLAN	9.06	±9.6
10643	AAC	IEEE 802.11ac WiFi (160 MHz, MCSF, 90pc dc)	WLAN	9.06	±9.6
10644	AAC	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc dc)	WLAN	8.89	±9.6
10645	AAC	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc dc)	WLAN	9.05	±9.6
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	WLAN	9.11	±9.6
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	±9.6
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	11.96	±9.6
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	3.45	±9.6
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42 6.96	±9.6
-	AAC	LTE-TOD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.21	±9.6
	AAC	Pulse Waveform (200 Hz, 10%)	Test	10.00	±9.6
-	AAC	Pulse Waveform (200 Hz, 20%)	Test	6.99	±9.6
-	AAC	Pulse Waveform (200 Hz, 40%)	Test	3.98	±9.6
-	AAC	Pulse Waveform (200 Hz, 60%)	Test	2.22	±9.6
-	AAC	Pulse Waveform (200 Hz, 80%)	Test	0.97	±9.6
-		Bluetooth Low Energy	Bluetooth	2.19	±9.6
the same of the sa	AAD	IEEE 802.11ax (20 MHz, MCS0, 90pc dc)	WLAN	9.09	±9.6
-	AAD	IEEE 802.11ax (20 MHz, MCS1, 90pc dc)	WLAN	8.57	±9.6
-	AAD	IEEE 802.11ax (20 MHz, MCS2, 90pc dc) IEEE 802.11ax (20 MHz, MCS3, 90pc dc)	WLAN	8.78	±9.6
-	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	±9.6
	A Company of the Comp	IEEE 802.11ax (20 MHz, MCS5, 90pc dc)	WLAN	8.90	±9.6
	AAD	IEEE 802.11ax (20 MHz, MCS6, 90pc dc)	WLAN	8.77	±9.6
-	AAD I	IEEE 802.11ax (20 MHz, MCS7, 90pc dc)	WLAN	8.73	±9.6
0679	AAD I	EEE 802.11ax (20 MHz, MCS8, 90pc dc)	WLAN	8.78	±9.6
0680	AAD I	EEE 802.11ax (20 MHz, MCS9, 90pc dc)	WLAN	8.89	±9.6
0681 /	AAG I	EEE 802.11ax (20 MHz, MCS10, 90pc dc)	WLAN	8.80	±9.6
0682	AAF I	EEE 802.11ax (20 MHz, MCS11, 90pc dc)	WLAN	8.62	±9.6
Name of the last	AAA I	EEE 802.11ax (20 MHz, MCS0, 99pc dc)	WLAN	8.83	±9.6
-	AAC I	EEE 802.11ax (20 MHz, MCS1, 99pc dc)	WLAN	8.42	±9.6
The state of the s	AAC I	EEE 802.11ax (20 MHz, MCS2, 99pc dc)	WLAN	8.26	±9.6
0686 A	AAC I	EEE 802.11ax (20 MHz, MCS3, 99pc dc)	1750014	8.33	±9.6

UID 10687	Rev	The state of Stelli Maile	Group	PAR (dB)	Unc <sup>E</sup> k =
10687		(EO WILLE, MICS4, 99DC OC)	WLAN	8.45	±9.6
10689	-		WLAN	8.29	-
10690	AAD		WLAN	8.55	±9.6
10690	AAE		WLAN	8.29	±9.6
10692	AAB	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WLAN	8.25	±9.6
10692	AAA		WLAN	8.29	±9.6
	AAA		WLAN	8.25	±9.6
10694	AAA		WLAN	8.57	±9.6
10695	AAA	The state of the last of the l	WLAN		±9.6
10696	AAA		WLAN	8.78	±9.6
10697	AAA	IEEE 802.11ax (40 MHz, MCS2, 90pc dc)	WLAN	8.91	±9.6
10698	AAA	IEEE 802.11ax (40 MHz, MCS3, 90pc dc)	WLAN	8.61	±9.6
10699	AAA	IEEE 802.11ax (40 MHz, MCS4, 90pc dc)	WLAN	8.89	±9.6
10700	AAA	IEEE 802.11ax (40 MHz, MCS5, 90pc dc)	WLAN	8.82	±9.6
10701	AAA	IEEE 802.11ax (40 MHz, MCS6, 90pc dc)	WLAN	8.73	±9.6
10702	AAA	IEEE 802.11ax (40 MHz, MCS7, 90pc dc)	WLAN	8.86	±9.6
10703	AAA	IEEE 802.11ax (40 MHz, MCS8, 90pc dc)	WLAN	8.70	±9.6
10704	AAA	IEEE 802.11ax (40 MHz, MCS9, 90pc dc)	WLAN	8.82	±9.6
10705	AAA	IEEE 802.11ax (40 MHz, MCS10, 90pc dc)		8.56	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc dc)	WLAN	8.69	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc dc)	WLAN	8.66	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc dc)	WLAN	8.32	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc dc)	WLAN	8.55	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc dc)	WLAN	8.33	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc dc)	WLAN	8.29	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc dc)	WLAN	8.39	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc dc)	WLAN	8.67	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc dc)	WLAN	8.33	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc dc)	WLAN	8.26	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc dc)	WLAN	8.45	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc dc)	WLAN	8.30	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc dc)	WLAN	8.48	±9.6
10719	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc dc)	WLAN	8.24	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc dc)	WLAN	8.81	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc dc)	WLAN	8.87	±9.6
-	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc dc)	WLAN	8.76	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc dc)	WLAN	8.55	±9.6
	-	IEEE 802.11ax (80 MHz, MCS4, 90pc dc)	WLAN	8.70	±9.6
-	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc dc)	WLAN	8.90	±9.6
	-	IEEE 802.11ax (80 MHz, MCS6, 90pc dc)	WLAN	8.74	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc dc)	WLAN	8.72	±9.6
-	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc dc)	WLAN	8.66	±9.6
_	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc dc)	WLAN	8.65	-
	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc dc)	WLAN	8.64	±9.6
The second second	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc dc)	WLAN	8.67	±9.6
200000000000000000000000000000000000000	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc dc)	WLAN	-	±9.6
-	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc dc)	WLAN	8.42	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc dc)	WLAN		±9.6
-	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc dc)	WLAN	8.40	±9.6
Contract of the last	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc dc)	WLAN	8.25	±9.6
-	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc dc)	WLAN	8.33	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc dc)	WLAN	8.27	±9.6
-	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc dc)	WLAN	8.36	±9.6
the second second	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc dc)		8.42	±9.6
the second second	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc dc)	WLAN	8.29	±9.6
and the second second	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc dc)	WLAN	8.48	±9.6
and the same of	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc dc)	WLAN	8.40	±9.6
and the second second	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc dc)	WLAN	8.43	±9.6
-	AC	IEEE 802.11ax (160 MHz, MCS1, 90pc dc)	WLAN	8.94	±9.6
745 A	VAC	IEEE 802.11ax (160 MHz, MCS2, 90pc dc)	WLAN	9,16	±9.6
746 A	AC I	IEEE 802.11ax (160 MHz, MCS3, 90pc dc)	WLAN	8.93	±9.6
747 A	AC I	EEE 802.11ax (160 MHz, MCS4, 90pc dc)	WLAN	9.11	±9.6
748 A	AC I	EEE 802.11ax (160 MHz, MCS5, 90pc dc)	WLAN	9.04	±9.6
-	AC I	EEE 802.11ax (160 MHz, MCS6, 90pc dc)	WLAN	8.93	±9.6
-	AC I	EEE 802.11ax (160 MHz, MCS6, 90pc dc)	WLAN	8.90	±9.6
		FFF 802 11av (160 MHz, MCS7, 90pc dc)	WLAN	8.79	±9.6
-	Village Street	EEE 802.11ax (160 MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6
	100	EEE 802.11ax (160 MHz, MCS9, 90pc dc)	WLAN	8.81	±9.6

10753	Rev		Group	PAR (dB)	UncE k =
10754		1 002:11dx (100 MHz, MCS10, 90nc dc)	WLAN	9.00	-
10755	1000	The social ray (100 Minz, MicS11, 90pc dc)	WLAN	8.94	±9.6
10756	1.000	100 WHZ, WCSU, 990c dc)	WLAN	8.64	±9.6
10757	1.100.0	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WLAN	8.77	±9.6
10758	10,000	100 MHz, MCS2, 990c dc)	WLAN	8.77	±9.6
10759	1000	The social and the social soci	WLAN	8.69	±9.6
10760	1000000	1 002.11 ax (100 Winz, MCS4, 990c dc)	WLAN	8.58	±9.6
10761	-	100 WHZ, WCS5, 990c dc)	WLAN	-	±9.6
10762	10.00	THE COLLITIAN (100 MITZ, MCSb, 990c dc)	WLAN	8.49	±9.6
10762			WLAN	8.58	±9.6
10764		THE COLL THAN (TOURINE, MICSS, 99DC dc)	WLAN	8.49	±9.6
10765	AAC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WLAN	8.53	±9.6
10766	AAC	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	WLAN	8.54	±9.6
10765	AAC	The south of the sure of the s	WLAN	8.54	±9.6
-	AAC	TO THE STATE OF SMALL OPSK 15 kH2	5G NR FR1 TDD	8.51	±9.6
10768	AAC	SG NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10769	AAC	5G NH (CP-OFDM, 1 RB, 15MHz, OPSK, 15 kHz)		8.01	±9.6
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAC	DG NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10775	AAC	5G NR (CP-OFDM, 50% RB, 5MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8,31	±9.6
10777	AAC	5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10783	AAC	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10784	AAC	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10785	AAC	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10787	AAC	5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10790	AAC	5G NR (CP-OEDM, 100% PB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10791	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
0794	AAC	5G NR (CP-OFDM 1 PR COAM 1 CPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
-	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
-	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
-		5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
-	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
		5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
-		5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
The second second	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
-	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
-	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
		5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
	AD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	
-	MU	5G NR (CP-OFDM, 100% RB, 5MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
	MU	DG NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 20 kHz)	5G NR FR1 TDD	8.34	±9.6
-	UAD :	og NH (CP-OFDM, 100% RB, 15 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
-	MU ;	OG NH (CP-OFDM, 100% RB, 20 MHz, OPSK 30 kHz)	5G NR FR1 TDD	8.30	±9.6
-	AC :	OG NR (CP-OFDM, 100% RB, 25 MHz, OPSK, 20 kHz)	5G NR FR1 TDD	8.41	±9.6
	AD 3	OG NH (CP-OFDM, 100% RB, 30 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
	MU :	OG NR (CP-OFDM, 100% RB, 40 MHz, OPSK, 30 kHz)	5G NR FR1 TDD		±9.6
	AD   5	NR (CP-OFDM, 100% RB, 50 MHz, OPSK, 30 kHz)		8.36	±9.6
824 A	AD	C LIE LOS IN THE COLD TO THE C			
824 A	AD	OG NH (CP-OFDM, 100% RB, 60 MHz, OPSK 30 kHz)	5G NR FR1 TDD	8.39	±9.6
824 A 825 A 827 A	AD 5	G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.39 8.41 8.42	±9.6 ±9.6

10829	Rev		Group	PAR (dB)	UncE k =
10830	1.00	100 % NB, 100 MHZ, OPSK, 30 KH21	5G NR FR1 TDD	8.40	±9.6
10831	AAD	TOWN, THE, TOWN, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10832		THE THE STATE OF SITE	5G NR FR1 TDD	7.73	±9.6
10833	-		5G NR FR1 TDD	7.74	±9.6
	14.10	TO CHANGE THE CONTRACT OF SK. BEI KHZ)	5G NR FR1 TDD	7.70	
10834	AAD	THE STATE OF SINITE OF SIN	5G NR FR1 TDD	7.75	±9.6
10835	AAD	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5G NR FR1 TDD	7.70	±9.6
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD		±9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	±9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 60 kHz)		7.71	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10871	AAD	5G NR (DET s OFDM 1 DR 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10872	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10873	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10874	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10875	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10876	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10877	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
-	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
-	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
-	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
7.55	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
-	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
	-	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
-	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
-	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
and the same of	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
-	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	
-	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6
-	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.00	±9.6
-	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
-	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
The state of the s	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	- CONTROL - CONT	±9.6
-	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
-	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
_	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
tradesia de la constitución de l	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)		5.68	±9.6
THE REAL PROPERTY.	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
0906 A	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
907 A	AD .	5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
908 A	AD :	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
909 A	AD I	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
-	AD !	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
Account to the second second	2.000/01	10 01 0W, 50% No. 20 MHZ, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6

10911	Re	- This incution by stem realine	Group	PAR (dB)	Unc <sup>E</sup> k =
10912		The state of the s	5G NR FR1 TDD	5.93	±9.6
10913	15,00,00	101 101 101 0W, 50% ND, 30 MHZ, CIPSK 30 kH21	5G NR FR1 TDD	5.84	±9.6
10914	1,00	THE SECOND STATE OF THE SECOND	5G NR FR1 TDD	5.84	±9.6
10915		The state of the s	5G NR FR1 TDD	5.85	±9.6
10916	- Contractor	TO TO DIM, SUVE AD, BUIMAZ OPSK 30 kHay	5G NR FR1 TDD	5.83	±9.6
10917	2.000.00	1 3 0 DW, 50% ND, 60 MHZ, OPSK 30 kH21	5G NR FR1 TDD	5.87	±9.6
10918	1500,00	1 10 NHZ CIPSK 30 KH2	5G NR FR1 TDD	5.94	±9.6
10919		THE THE PARTY OF THE STATE OF STATES	5G NR FR1 TDD	5.86	±9.6
10920	7 10 10	THE THE PARTY OF T	5G NR FR1 TDD	5.86	±9.6
10921	AAD	1 WHZ OPSK 30 PH2	5G NR FR1 TDD	5.87	±9.6
10922	- CONTROL OF THE PARTY OF THE P	100 % HB, 20 MHZ, QPSK 30 kHz	5G NR FR1 TDD	5.84	±9.6
10923	AAD	100% Hb, 25 MHz, QPSK 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10924	AAD	1 2 1 1 2 01 DW, 100% HB, 30 MHZ, OPSK, 30 MHZ	5G NR FR1 TDD	5.84	±9.6
10925	AAD	11 10 13 OF DIM, 100% RB, 40 MHz (OPSK 30 PH-)	5G NR FR1 TDD	5.84	±9.6
10926	AAD	TO THE TOWN TOURS HE SUMMED CIPSK ON LUS	5G NR FR1 TDD	5.95	±9.6
10927	AAD	1 SOLDING TO THE SUMMY OPSIC 30 PH-1	5G NR FR1 TDD	5.84	±9.6
10928	AAD		5G NR FR1 TDD	5.94	±9.6
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 15MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 20MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 1 RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 25MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 1 HB, 50MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	5.92	±9.6
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
0956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.42	±9.6
0957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-OAM, 15 kHz)	5G NR FR1 FDD	8.33	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	9.36	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-OAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
Marin State	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.37	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	±9.6
-	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.42	±9.6
	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	CO NO ED TOO	9.49	±9.6
0973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	11.59	±9.6
	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	50 Mg mm - mm	9.06	±9.6
0974		ULLA BDR	ULLA	2.23	±9.6
0974	AAA				±9.6
0974 / 0978 / 0979 /	AAA	ULLA HDR4			-
0974 / 0978 / 0979 / 0980 /	AAA AAA	ULLA HDR8	ULLA	7.02	±9.6
0974 / 0978 / 0979 / 0980 / 0981 /	AAA AAA AAA				-

UID	Rev	Communication System Name			
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	Group	PAR (dB)	$Unc^{E} k = 2$
10984	AAA	SG NR DL (CR OFON TWO 4 SOUNDS, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10987	277722700	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10989	111111111111111111111111111111111111111	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)			±9.6
-	2000	1 02 (01 - 01 DM, 1M 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	- 1

<sup>&</sup>lt;sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.