

S P E A G CALIBRATION LABORATORY

Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504 http://www.chinattl.cn



Client

Sporton

Certificate No:

Z18-60537

CALIBRATION GERTIFICATIE

Object

D2600V2 - SN: 1070

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

December 7, 2018

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) $^{\circ}$ C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration		
Power Meter NRVD	102196	07-Mar-18 (CTTL, No.J18X01510)	Mar-19		
Power sensor NRV-Z5	100596	07-Mar-18 (CTTL, No.J18X01510)	Mar-19		
Reference Probe EX3DV4	SN 7514	27-Aug-18(SPEAG,No.EX3-7514_Aug18)	Aug-19		
DAE4	SN 1555	20-Aug-18(SPEAG,No.DAE4-1555_Aug18)	Aug-19		
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration		
Signal Generator E4438C	MY49071430	23-Jan-18 (CTTL, No.J18X00560)	Jan-19		
Network Analyzer E5071C	MY46110673	24-Jan-18 (CTTL, No.J18X00561)	Jan-19		
			·.		

Name

Function

Calibrated by:

Zhao Jing

SAR Test Engineer

Reviewed by:

Lin Hao

SAR Test Engineer

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: December 10, 2018

Signature

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Certificate No: Z18-60537

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Glossary:

TSL ConvF tissue simulating liquid

sensitivity in TSL / NORMx, v, z

N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. 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: Z18-60537



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Measurement Conditions

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

DASY Version	DASY52	52.10.2.1495
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.1 ± 6 %	1.93 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.4 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	58.1 mW /g ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.50 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	26.1 mW /g ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

Temperature	Permittivity	Conductivity
22.0 °C	52.5	2.16 mho/m
(22.0 ± 0.2) °C	51.0 ± 6 %	2.18 mho/m ± 6 %
<1.0 °C		
	22.0 °C (22.0 ± 0.2) °C	22.0 °C 52.5 (22.0 ± 0.2) °C 51.0 ± 6 %

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.8 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	54.6 mW /g ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	6.18 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	24.6 mW /g ± 18.7 % (k=2)

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Appendix(Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	48.6Ω- 6.33jΩ				
Return Loss	- 23.7dB				

Antenna Parameters with Body TSL

Impedance, transformed to feed point	44.8Ω- 5.36jΩ			
Return Loss	- 22.1dB			

General Antenna Parameters and Design

Electrical Delay (one direction)	1.015 ns
	1.010110

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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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1070

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 39.1$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

Probe: EX3DV4 - SN7514; ConvF(6.92, 6.92, 6.92) @ 2600 MHz; Calibrated: 8/27/2018

Date: 12.06.2018

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/20/2018
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

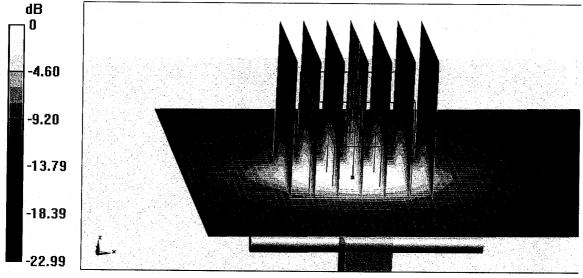
Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.07 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 14.4 W/kg; SAR(10 g) = 6.5 W/kg

Maximum value of SAR (measured) = 24.7 W/kg



0 dB = 24.7 W/kg = 13.93 dBW/kg

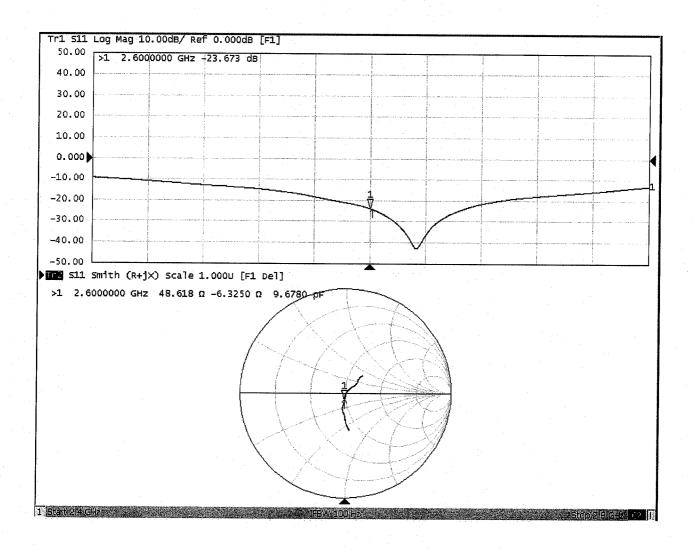


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Impedance Measurement Plot for Head TSL





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DASY5 Validation Report for Body TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1070

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma = 2.181$ S/m; $\epsilon_r = 51.03$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

 Probe: EX3DV4 - SN7514; ConvF(7.06, 7.06, 7.06) @ 2600 MHz; Calibrated: 8/27/2018

Date: 12.06.2018

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1555; Calibrated: 8/20/2018
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

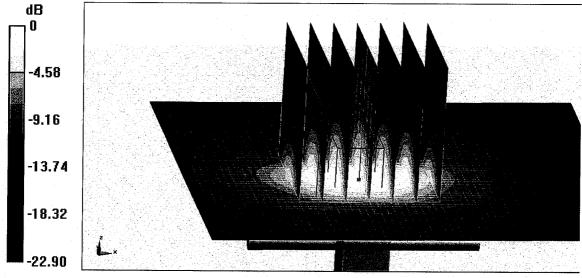
Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.90 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 29.5 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.18 W/kg

Maximum value of SAR (measured) = 23.6 W/kg



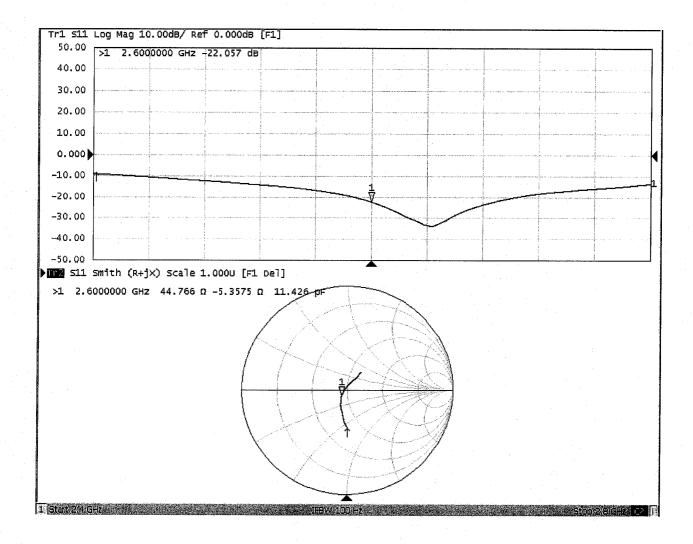
0 dB = 23.6 W/kg = 13.73 dBW/kg



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Impedance Measurement Plot for Body TSL





D2600V2, Serial No. 1070 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, 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.

D2600V2 – serial no. 1070												
2600 Head					2600 Body							
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2018.12.7	-23.7		48.6		-6.33		-22.1		44.8		-5.36	
2019.11.25	-23.1	2.5	48.6	0	-6.82	-0.49	-22.0	0.5	45.3	0.5	-4.65	0.71
2020.11.25	-23.5	0.8	48.8	0.2	-5.93	0.4	-22.0	0.5	44.5	-0.3	-5.04	0.32

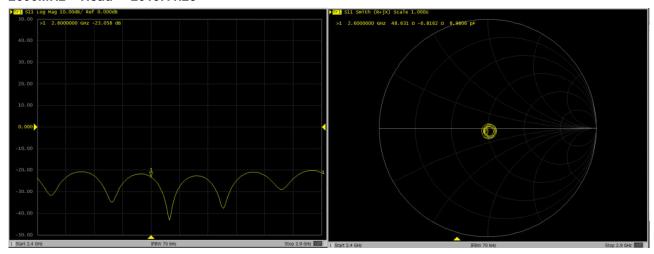
<Justification of the extended calibration>

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.

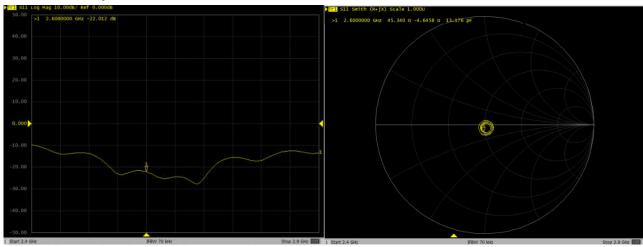


Dipole Verification Data> D2600V2, serial no. 1070

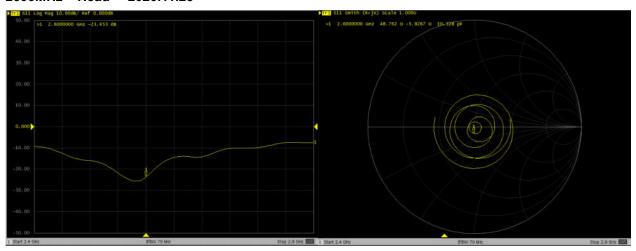
2600MHz - Head----2019.11.25



2600MHz - Body----2019.11.25

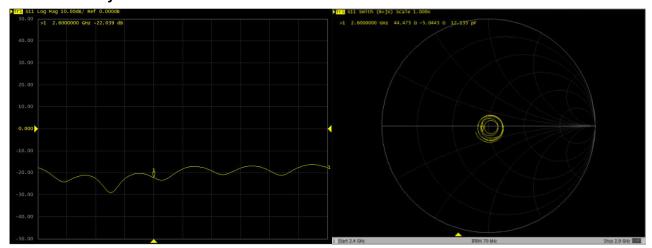


2600MHz - Head----2020.11.25





2600MHz - Body----2020.11.25



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: D3700V2-1037_Apr19

CALIBRATION CERTIFICATE

Object

D3700V2 - SN:1037

Calibration procedure(s)

QA CAL-22.v4

Calibration Procedure for SAR Validation Sources between 3-6 GHz

Calibration date:

April 29, 2019

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)

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eck: Oct-20
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eck: Oct-20
eck: Oct-19
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Issued: April 29, 2019

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Certificate No: D3700V2-1037_Apr19

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Calibration Laboratory of

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





S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

Certificate No: D3700V2-1037_Apr19

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. 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%.

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Measurement Conditions

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

DASY Version	DASY5	V52.10.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	3700 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.7	3.12 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.1 ± 6 %	3.06 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.85 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	68.5 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.49 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ± 19.5 % (k=2)

Certificate No: D3700V2-1037_Apr19

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	46.4 Ω - 0.6 jΩ
Return Loss	- 28.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.138 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	SPEAG
Mariatatata	

Certificate No: D3700V2-1037_Apr19 Page 4 of 6

DASY5 Validation Report for Head TSL

Date: 29.04.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1037

Communication System: UID 0 - CW; Frequency: 3700 MHz

Medium parameters used: f = 3700 MHz; $\sigma = 3.06$ S/m; $\varepsilon_r = 37.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN3503; ConvF(7.5, 7.5, 7.5) @ 3700 MHz; Calibrated: 25.03.2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 04.10.2018

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

• DASY52 52.10.2(1495); SEMCAD X 14.6.12(7450)

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3700MHz/Zoom Scan,

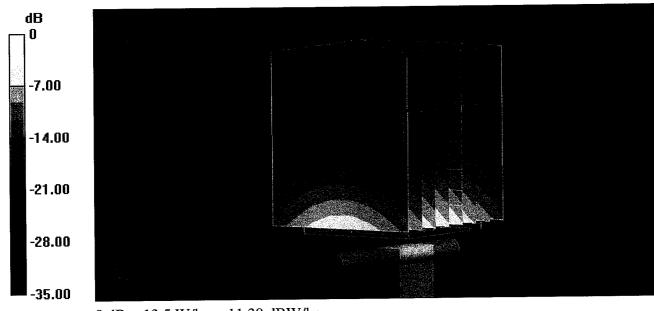
dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.88 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 19.5 W/kg

SAR(1 g) = 6.85 W/kg; SAR(10 g) = 2.49 W/kg

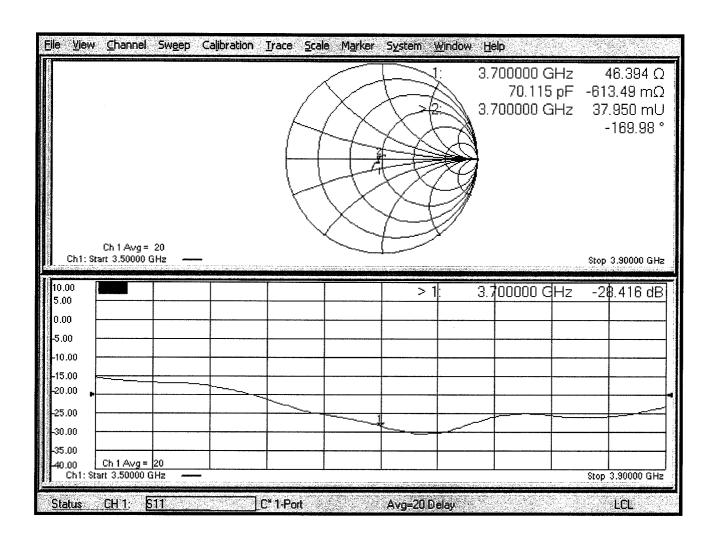
Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

Certificate No: D3700V2-1037_Apr19 Page 5 of 6

Impedance Measurement Plot for Head TSL





D3700V2, Serial No. 1037 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, 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.

D3700V2 – serial no. 1037						
		3700 Head				
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2019.4.29	-28.4		46.4		-0.6	
2020.4.15	-28.4	0	46.3	-0.1	-0.4	0.2

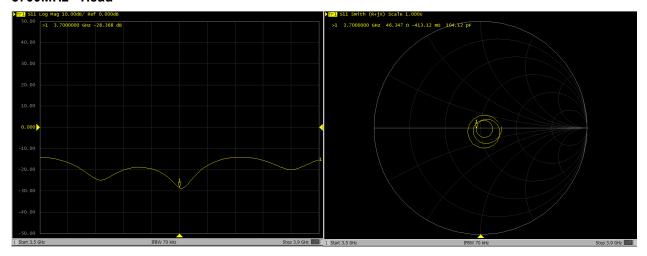
<Justification of the extended calibration>

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.



Dipole Verification Data> D3700V2, serial no. 1037

3700MHz - Head



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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Multilateral Agreement for the recognition of calibration certificates

Client

Sporton

Certificate No: D3900V2-1022_Jul19

CALIBRATION CERTIFICATE

Object D3900V2 - SN:1022

Calibration procedure(s) QA CAL-22.v4

Calibration Procedure for SAR Validation Sources between 3-6 GHz

Calibration date: July 11, 2019

This calibration cartificate 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 cartificate.

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#	Cai Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-19 (No. 217-02894)	Apr-20
	SN: 5047.2 / 06327	04-Apr-19 (No. 217-02895)	Apr-20
ype-N mismatch combination	SN: 3503	25-Mar-19 (No. EX3-3503 Mar19)	Mar-20
Reference Probe EX3DV4 DAE4	SN: 601	30-Apr-19 (No. DAE4-601_Apr19)	Apr-20
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Feb-19)	In house check: Oct-20
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-18)	In house check: Oct-20
	SN: 100972	15-Jun-15 (in house check Oct-18)	In house check: Oct-20
RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19
	Name	Function	Signature,
Calibrated by:	Jeton Kastrati	Laboratory Technician	Xh
Approved by:	Katja Pokovic	Technical Manager	1 dence

Issued: July 11, 2019

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Measurement Conditions

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

DASY Version	DASY5	V52.10.2	
Extrapolation	Advanced Extrapolation		
Phantom	Modular Flat Phantom		
Distance Dipole Center - TSL	10 mm	with Spacer	
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)	
Frequency	3900 MHz ± 1 MHz 4100 MHz ± 1 MHz		

Head TSL parameters at 3900 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.5	3.32 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.2 ± 6 %	3.23 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 3900 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	70.5 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.6 W/kg ± 19.5 % (k=2)

Head TSL parameters at 4100 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	37.2	3.53 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.0 ± 6 %	3.41 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 4100 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.64 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	66.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.32 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.2 W/kg ± 19.5 % (k=2)

Certificate No: D3900V2-1022_Jul19 Page 3 of 6

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 3900 MHz

Impedance, transformed to feed point	47.2 Ω - 4.1 jΩ
Return Loss	- 25.9 dB

Antenna Parameters with Head TSL at 4100 MHz

Impedance, transformed to feed point	57.0 Ω + 0.7 jΩ
Return Loss	- 23.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.101 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: D3900V2-1022_Jul19 Page 4 of 6

DASY5 Validation Report for Head TSL

Date: 11.07.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 3900 MHz; Type: D3900V2; Serial: D3900V2 - SN:1022

Communication System: UID 0 - CW; Frequency: 3900 MHz, Frequency: 4100 MHz Medium parameters used: f = 3900 MHz; $\sigma = 3.23$ S/m; $\epsilon_r = 37.2$; $\rho = 1000$ kg/m 3 . Medium parameters used: f = 4100 MHz; $\sigma = 3.41$ S/m; $\epsilon_r = 37$; $\rho = 1000$ kg/m 3

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(7.25, 7.25, 7.25) @ 3900 MHz, ConvF(7.05, 7.05, 7.05) @ 4100 MHz; Calibrated: 25.03.2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2019
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=3900MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.25 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 20.0 W/kg

SAR(1 g) = 7.03 W/kg; SAR(10 g) = 2.46 W/kg

Maximum value of SAR (measured) = 13.7 W/kg

Dipole Calibration for Head Tissue/Pin=100 mW, d=10mm, f=4100MHz/Zoom Scan,

dist=1.4mm (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 69.96 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 19.0 W/kg

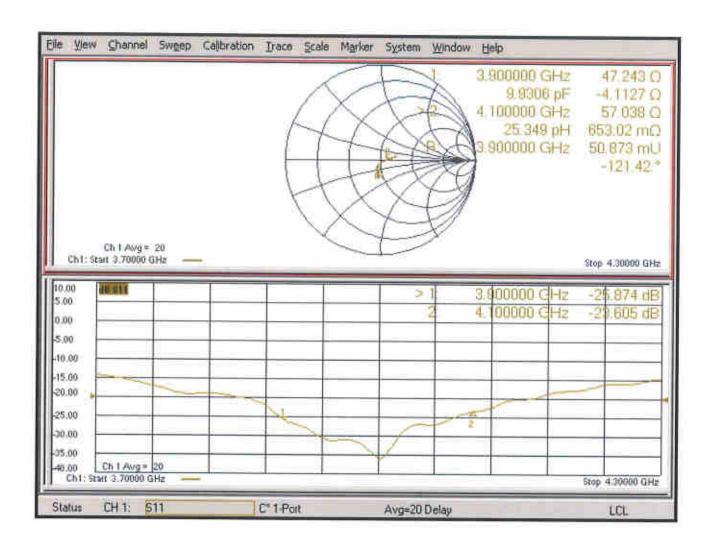
SAR(1 g) = 6.64 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 13.2 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

Impedance Measurement Plot for Head TSL





D3900V2, Serial No. 1022 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, 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.

D3900V2 – serial no. 1022						
3900 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2019.7.11	-25.9		47.2		-4.1	
2020.7.7	-26.3	-1.5	47.9	0.7	-1.7	2.4
D3900V2 – serial no. 1022						
4100 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2019.7.11	-23.6		57.0		0.7	
2020.7.7	-23.3	1.3	58.2	1.2	-1.1	-1.8

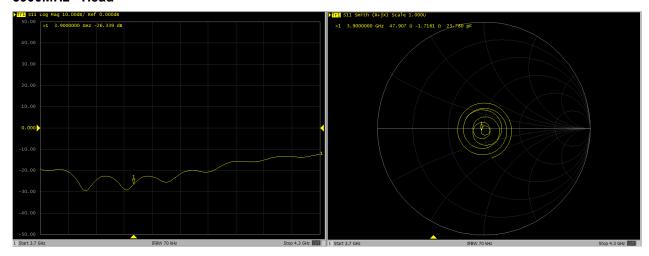
<Justification of the extended calibration>

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.

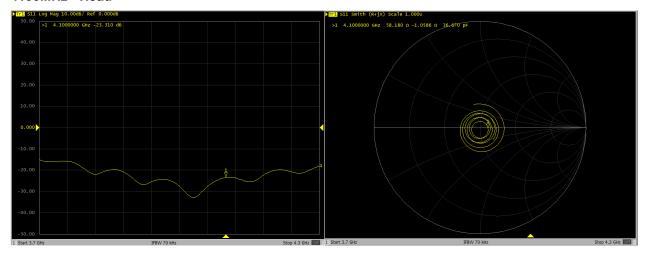


Dipole Verification Data> D3900V2, serial no. 1022

3900MHz - Head



4100MHz - Head



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504 E-mail: cttl@chinattl.com Http://www.chinattl.cn



Client :

Sporton

Certificate No: Z20-60271

CALIBRATION CERTIFICATE

Object

DAE4 - SN: 715

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

July 27, 2020

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(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	16-Jun-20 (CTTL, No.J20X04342)	Jun-21

Calibrated by:

Name

Function

Signature

Yu Zongying

SAR Test Engineer

Reviewed by:

Lin Hao

SAR Test Engineer

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: July 29, 2020

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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 report provide only calibration results for DAE, it does not contain other performance test results.



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E-mail: cttl@chinattl.com

Http://www.chinattl.cn

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	405.113±0.15% (k=2)	404.657 ± 0.15% (k=2)	404.478 ± 0.15% (k=2)
Low Range	3.98921 ± 0.7% (k=2)	3.97649 ± 0.7% (k=2)	3.97576 ± 0.7% (k=2)

Connector Angle

to a substitute of several	
Connector Angle to be used in DASY system	330.5° ± 1 °

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Accredited by the Swiss Accreditation Service (SAS)

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Accreditation No.: SCS 0108

Client

Sporton

Certificate No: EX3-7577 Sep20

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7577

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date.

September 30, 2020

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)

TIO O	Cal Date (Certificate No.)	Scheduled Calibration
SN: 104778		Apr-21
SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
SN: CC2552 (20x)		Apr-21
SN: 660		Dec-20
SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-28
ID O	Check Date (in house)	Scheduled Check
SN: GB41293874	The state of the s	In house check: Juni-22
SN: MY41498087		In house check: Jun-22
SN: 000110210		In house check Jun-22
SN: US3642U01700		In house check: Jun-22
SN: US41080477		In house check: Oct-20
	SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (29x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: 000110210 SN: US3642001700	SN: 104778 01-Apr-20 (No. 217-03100/03101) SN: 103244 01-Apr-20 (No. 217-03100/03101) SN: 103245 01-Apr-20 (No. 217-03100) SN: CC2552 (20x) 31-Mar-20 (No. 217-03106) SN: 660 27-Dec-19 (No. DAE4-060 Dec19) SN: 3013 31-Dec-19 (No. ES3-3013 Dec19) ID Check Date (in house) SN: GB41293874 06-Apr-16 (in house check Jun-20) SN: MY41498087 06-Apr-16 (in house check Jun-20) SN: 000110210 06-Apr-16 (in house check Jun-20) SN: US3642U01700 04-Aug-99 (in house check Jun-20)

Name Function Signature
Calibrated by Leit Riysner Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued October 1, 2020

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Certificate No: EX3-7577_Sep20

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TISL NORMx,y,z ConvF

tissue simulating liquid sensitivity in free space

DCP

sensitivity in TSL / NORMx,y,z diade compression point

QF A, B, C, D

crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization o

e rotation around probe axis

Polarization 9

8 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 0 is normal to probe axis

Connector Angle

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

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-

held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) 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 8 = 0 (f < 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E2-field uncertainty inside TSL (see below ConvF).

NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.

DCPx,y,z. DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.

PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics

Ax.y,z; Bx.y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.

ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f < 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100

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).

EX3DV4 - SN:7577

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7577

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m)²) ^A	0.56	0.64	0.60	± 10.1 %
DCP (mV) ⁸	100.3	99.6	100.2	(3.55)(1.55)

Calibration Results for Modulation Re

UID	Communication System Name		A dB	B dBõV	С	dB D	WR mV	Max dev.	Max Unc [©] (k=2)
0	CW	X	0.00	0.00	1.00	0.00	179.9	±3.5%	± 4.7 %
	1	Y	0.00	0.00	1.00		190.2		
		12	0.00	0.00	1.00		187.4		
10352-	Pulse Waveform (200Hz, 10%)	X	15,00	85.65	17.85	10.00	60.0	±3.3%	± 9.6 %
AAA	API	Y	15,00	86.11	18:19	=::-	60.0		neumana
		7	15.00	86.79	18.62		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	87.65	17.70	6.99	80.0	±2.1 %	± 9,6 %
AAA	(Aller well result	0.40	15.00	88.77	18.19		0.08		SHEW M
		Z	15.00	89.85	19.02		80.0		
10354-	Pulse Wayeform (2001-lz, 40%)	X	15.00	92.45	18.72	3.98	95.0	± 1.0 %	± 9.6 %
AAA	The second secon	Y	15.00	91.79	18.08		95.0		
		Z	15.00	96.85	21.09		95.0		
10355- 1	Pulse Waveform (200Hz, 60%)	X	15.00	100.48	21.24	2.22	120.0	±1.1 %	± 9.6 %
AAA		Y	15,00	90.85	16.23		120.0		
		Z	15.00	108.65	25.24		120.0		
10387-	QPSK Waveform, 1 MHz.	X	0.61	61.31	8.06	0.00	150.0	± 2.6 %	±9.6 %
AAA	ELECTRONIO CONTROL PROPERTY	Y	0.51	60.00	6.74		150.0		
		Z	0.62	61.67	8.27		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.33	69.51	16.61	0.00	150.0	±1.2%	±9.6 %
AAA		Y	1.96	66.54	14.94		150.0		
		7	2.39	70.09	16.90		150.0		
10396-	64-QAM Waveform, 100 kHz	X	2.79	70.78	19.07	3.01	150.0	±1.1%	±9.6 %
AAA		Υ.	2.31	66.70	17.09		150.0		
		2	2.98	71,91	19.51		150.0		
AAA	64-QAM Waveform, 40 MHz	X	3.45	67.23	15.93	0.00	150.0	±2.0%	±9.6%
	The second section of the second seco	Υ	3.32	66.40	15.38		150.0		-4.111.01.30
		Z	3.47	67.48	16.06		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.71	65.62	15.58	0.00	150.0	±3.7 %	± 9.6 %
AAA		Υ	4.64	65.21	15.32		150.0	2 4,1 46	
			4.72	65.75	15.64		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%.

[^]The uncertainties of Norm X,Y,Z do not affect the E²-field uncortainty inside TSL (see Page 5).

Numerical linearization parameter: uncertainty not required.

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

EX3DV4 - SN:7577

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7577

Sensor Model Parameters

	C1 fF	C2 fF	α V-1	T1 ms.V~s	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5	76
X	37.3	275.86	35.01	9.44	0.00	5.05	1.02	0.18	1.0
Υ	37.2	282.80	36.55	7.00	0.00	5.08	0.00	0.10	1.0
Z	37.3	273.69	34.51	9.73	0.00	5.07	1.16	0.49	1.0

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (*)	-54.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7577

Calibration Parameter Determined in Head Tissue Simulating Media

(MHz) ^G	Relative Permittivity	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^a	Depth ^G (mm)	Unc (k=2)
750	41.9	0,89	9.85	9.85	9.85	0.67	0.80	± 12.0 %
835	41.5	0.90	9.54	9,54	9,54	0.59	0:83	± 12.0 9
900	41.5	0.97	9.21	9.21	9.21	0.56	0.80	± 12.0 %
1750	40.1	1.37	8.62	8.62	8.62	0.40	0.86	±12.0.9
1900	40.0	1.40	8.34	8.34	8.34	0.28	0.86	± 12:0 9
5000	40.0	1,40	8.24	8.24	8.24	0.37	0.86	± 12.0 9
2300	39.5	1.67	7.99	7.99	7.99	0.27	0.86	± 12.0 %
2450	39.2	1.80	7.95	7.95	7.95	0.39	0.90	± 12.0 %
2600	39,0	1.96	7.66	7.66	7.66	0.40	0.90	± 12.0 %
3300	38.2	2.71	6.96	6.96	6.96	0.30	1.35	± 14.0 %
3500	37:9	2.91	6.69	6.69	6.69	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.52	6.52	6.52	0.30	1.35	± 14.0 %
3900	37.5	3,32	6.26	6.26	6,26	0.35	1.60	± 14.0 %
4100	37.2	3.53	5.94	5.94	5,94	0.35	1,60	± 14.0 %
5250	35.9	4.71	5.40	5.40	5,40	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.79	4.79	4.79	0.40	1.80	± 14.0 %
5750	35.4	5.22	5.02	5,02	5.02	0.40	1.80	± 14.0 %

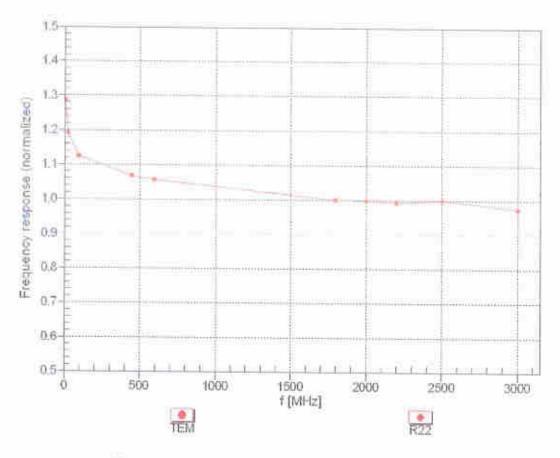
Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 8 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

At frequencies up to 6 GHz, the validity of tissue parameters (c and o) 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 target tissue parameters.

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

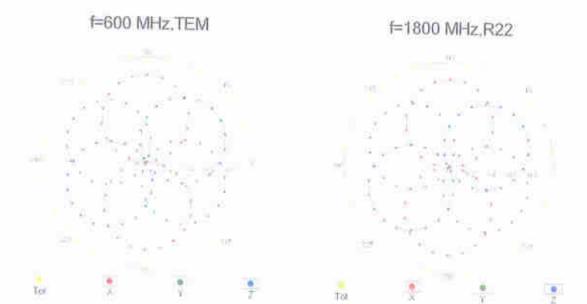
always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

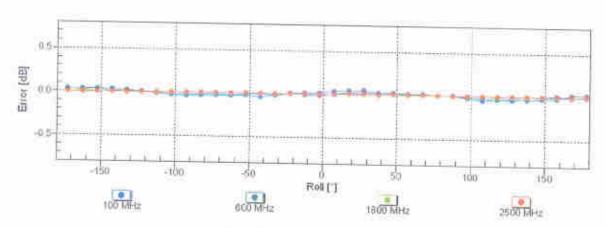
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

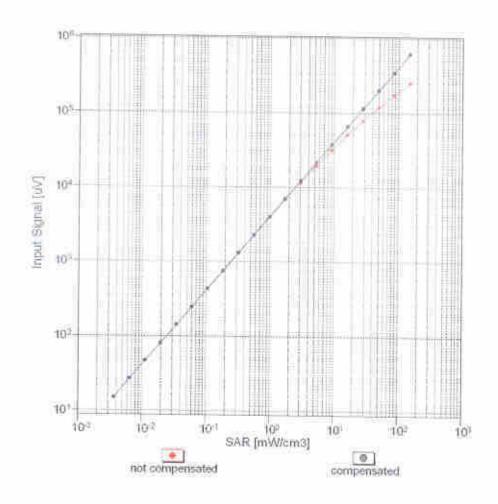
Receiving Pattern (\$\phi\$), 9 = 0°

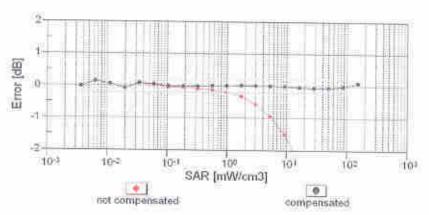




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

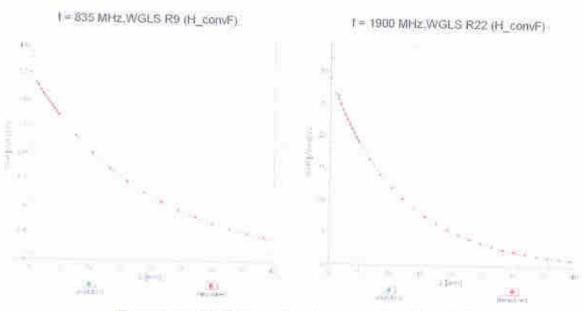
Dynamic Range f(SARhead) (TEM cell , f_{eval}= 1900 MHz)



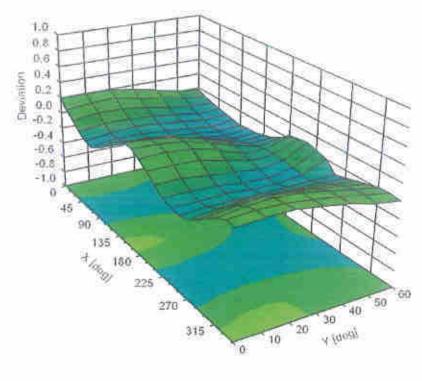


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (φ, θ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Une" (k=2)
0		cw	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	(EEE 802.11b WiF) 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9,46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9,39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9,57	±9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 9-1)	GSM	6.56	± 9.8 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	198%
10027.	DAG	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6 %
10030	CAA	IEEE 802 15.1 Bluetooth (GFSK, DH1)	Bluetocth	5.30	±9.6 %
10031	GAA	IEEE 802 15,1 Bluefooth (GFSK, DH3)	Bluetooth	1.87	±9.6 %
10032	CAA	IEEE 802 15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9,6 %
10033	CAA	IEEE 802,15.1 Bluefooth (PV4-DOPSK, DH1)	Bluetooth	7.74	±9,6 %
10034	CAA	IEEE 802, 15.1 Blueteeth (Pl/4-DQPSK, DH3)	Bluetooth	4.53	±9.6 %
10035	CAA	IEEE 802 15.1 Bluetooth (Pl/4-DQPSK, DH5)	Bluetooth	3.83	±9.6%
10036	CAA	IEEE 802,15,1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetouth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4:10	#9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	GDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, Pt/4-DQPSK, Helfrate)	AMPS	7.78	19.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6%
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mops)	TD-SCDMA	11.01	±9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802 11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	JEEE 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 %
0063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6 %
0064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	19.6%
0065	CAD	IEEE 802,11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
0066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
0067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
0068	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
0069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.58	± 9.6 %
0071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
0072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
0073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
0074	CAB	IEEE 802 11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
0075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
0076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
0077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6 %
0081	CAB	GDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6 %
0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
0090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6 %
0098	DAC	UMTS-FDD (HSUPA, Subtost 2)	WCDMA	3.98	±9.6 %

:10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	1 + 0 0 0
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 26 MHz, 16-QAM)	LTE-FDD	6.42	±9.69
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 54-QAM)	LTE-FDD	6.60	19.63
10103	DAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TOD	9.97	± 9.6 9
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TOD	10.01	± 9.6 9
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK).	LTE-FDD	5.80	1
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.69
10110	CAG	LTE-FDD (SC-FDMA; 100% RB; 5 MHz, GPSK)	LTE-FDD	5.75	±9.69
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-GAM)	LTE-FDD	6.44	
10112	CAG	LTE-FDD (SC-FDMA, 100% R8, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.65
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD		±9.63
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	6.62	±9.6 %
40115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.10	± 9.6 %
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.46	±9.6 %
10117:	CAG	IEEE 802 1 to (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.15	±9.6 %
10118	CAD	IEEE 802 11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.07	± 9.6 %
10119	CAD	IEEE 802.1 In (HT Mixed, 135 Mbps, 64-QAM)	WLAN	B.59	±9.6 %
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)		8.13	±9.6 %
10141	CAD	LTE-FDD (SG-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.49	±9,6 %
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)		6,53	±9.6 %
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3.MHz, 16-QAM)	LTE-FDD	5,73	± 9.6 %
10144	GAG	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.35	±9.6.%
10145	CAC	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, 16-QAM)	LTE-FDD	5.76	±9.6 %
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FOD	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, 64-QAM)	LTE-FDD	6.42	±9.6 %
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	16.60	±9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9:28	± 9.6 %
10153	CAE	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	9.92	±9.6 %
10154	CAF	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, 16-QAM)	LTE-FDD.	5,75	±9.6 %
10156	CAF	LTE-FOD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	6.43	±9.6 %
10157	CAE	LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM)	LTE-FDD	5.79	±9.6 %
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6 %
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, OPSK)	LTE-FDD	6.56	19.6 %
10161			LTE-FDD	5.82	±9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.43	±9.6 %
0166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, GPSK)	LTE-FDD	6.58	±9.6 %
0167			LTE-FDD	5.46	± 9.6 %
0168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6:21	±9.6 %
0169	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FOD	6.79	±9.8 %
0170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
0171	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6,52	±9.6 %
0172	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6 %
0173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
0174	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TOD	9.48	± 9.6 %
0175	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TOD	10.25	±9,6 %
0176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FOD	5.72	± 9.6 %
1177.700.000	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
0177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
0178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
0179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
0180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %

10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FOD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FOD	6.52	±9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	19.6%
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FOD	5.73	19.6%
10185	CAL	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	19.6 %
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB; 1.4 MHz, 18-QAM)	LTE-FDD	6.52	19.6%
10189	CAE	LTE-FDD (SC-FDMA, 1 RB; 1.4 MHz, 64-QAM)	LTE-FDD	6.50	19.6%
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	19.6%
10194	GAA	IEEE 802-11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6 %
10195	CAE	IEEE 802.11n (HT Gronnfold, 65 Mbps, 64-QAM)	WLAN	8.21	
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	19.6%
10197	AAE	IEEE 802:11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN		±,9,6 %
10198	CAF	IEEE 602.11n (HT Mixed, 85 Mbps, 64-QAM)	WLAN	8.13	±9.6 %
10219	CAF	IEEE 002 11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.27	±9.6%
10220	AAF	JEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.03	±9.6%
10221	CAC	IEEE 802 1 in (HT Mixed, 72.2 Mbps, 64-QAM)	The California	8.13	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.27	19.6 %
10223	CAD	IEEE 802,11n (HT Mixed, 90 Mbps, 16-QAM)	WEAR	8.06	196%
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WEAN	8.48	19.6%
10225	CAD	UMTS-FDD (HSPA+)	WEAN	8.08	±9.6%
10226	2070	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	MCDWV	5.97	± 9,6 %
10227	CAD		LTE-TDD	9,49	±96%
10228	CAD	LTE-TOD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9,6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDO	9.22	±9.6 %
10230	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TOO	9.48	±9.6%
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TOD	10.25	±9.6 %
10232	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9,19	#9.6 %
	GAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 18-QAM)	LTE-TOD	9.48	±9.6 %
10233	GAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TOD	10.25	±9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TOD	9.21	± 9.6 %
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10:25	±9.6%
10237	CAD	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TOD	9:21	±9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TOD	9.48	±9.6 %
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK):	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAD	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 64-DAM)	LTE-TDD	9.86	±9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TOD	10.06	±9.6 %
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, GPSK)	LTE-TDD	9.30	±9.6 %
10247	CAG	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TOD	9.29	± 9.6 %
10250	CAG	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, GPSK)	LTE-TDD	9.24	
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TOD	9.90	±9.6 %
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 84-QAM)	LTE-TOD	-	±9.6 %
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TOD	10.14	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TOD	9.20	± 9.6 %
10257	GAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)		9.96	19.6%
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TOD	10.08	±9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 18-QAM)	LTE-TOD	9.34	± 9.6 %
narrassas	UND	THE PROPERTY OF THE PROPERTY O	LTE-TDD	9.98	±9,6 %

10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TOD	9.97	± 9.6 %
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.69
10202	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TOD:	9.83	19.69
10263	CAG	LTE-TDD (SC-FDMA, 106% RB, 5 MHz, 64-QAM)	LTE-TOD	10.16	± 9.6
10264	CAG	1.TE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TOD	9.23	± 9.6 9
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TOD	9.92	± 9.6 9
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TOD	10.07	± 9.6 9
10267	CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9,30	±9.6 9
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TOO	10.06	200000000000000000000000000000000000000
10269	CAB	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TOD	10.13	±9.65
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSR)	LTE-TOD	9.58	# 9.6-9
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel6, 10)	WCDMA	4.87	1.9.63
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Refl.4)	WCDMA	3.96	±9.63
10277	CAD	PHS (QPSK)	PHS		19.63
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	±9.6%
10279	GAG	PHS (QPSK, BW 884MHz, Rollott 0,38)	PHS	11.81	1969
10290	CAG	COMA2000, RC1, SOS5, Full Rate	CDMA2000	12.18	± 9.6 %
10291	GAG	CDMA2000, RG3, SQ55, Full Rate	GDMA2000	3.91	± 9.6 %
10292	CAG	CDMA2000, RC3, SC32, Full Rate		3.46	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000 CDMA2000	3.39	2 9.6 %
10295	CAG	CDMA2000, RC1, SiO3, 1/8th Plate 25 fr.		3,50	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, S0% RB, 20 MHz, QPSK)	CDMA2000	12.49	±9.6%
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.81	±9.6 %
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	5.72	±9.6 %
10300	CAC	LTE-FDD (SC-FDMA, S0% RB, 3 MHz, 64-QAM)	LTE-FDD	6.39	± 9.6 %
10301	CAC	IEEE 802.15e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	LTE-FDD	6,60	# 9.6 %
10302	CAB	IEEE 902 16a MIMAY (25.16, 588, TOMPS, QPSK, PUSC)	WIMAX	12.03	# 9.6 %
10303	CAB	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, OPSK, PUSC, 30TRL)	WIMAX	12.57	±9.6 %
10304	1000	IEEE 802 16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6 %
10305	CAA	IEEE 902 16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	± 9.6 %
10306	CAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9,5 %
10307	CAA	IEEE 802 16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	14.67	±9.6 %
10308	AAB	IEEE 802 16e WIMAX (29:18, 10ms, 10MHz, QPSR, PUSC)	WIMAX	14.49	± 9.8 %
10309	AAB	IEEE 802 16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6 %
10310	AAB	IEEE 802 16e WiMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3)	WIMAX	14.58	±9.6 %
10311	AAB	IEEE 802 16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	WiMAX	14.57	±9.6 %
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6,06	± 9.6 %
-	AAD	IDEN 1:3	IDEN	10.51	±9.6 %
10314	AAD	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 98pc do)	WEAN	1.71	± 9.6 %
10316	GVV	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	±9.6 %
10317	AAA	IEEE 802.11a WIFi 5 GHz (OFDM, 6 Mbps, 96pc do)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10:00	±9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6%
10354	AAA	Pulse Waveform (200Hz, 40%)	Generio	3.98	±9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	196%
0356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6%
0387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
0396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9,6 %
0399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
0400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
0401	AAA	IEEE 802,11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
0402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	
0403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6 %
0404	AAB	CDMA2000 (1xEV-DO, Rev. A)	GDMA2000	3.77	±9.6 %
0406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	The state of the s	95(6)	±9.6 %

10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TOD	7.82	±9.69
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	±9.69
10415	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WEAN	8.23	19.69
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc do)	WEAN	8.23	±9.6 9
10418	AAA	IEEE 802.11g WIFL2.4 GHz (DSSS-OFDM, 6 Mbps, 98pc, Long)	WLAN	8.14	100000000000000000000000000000000000000
10419	AAA	IEEE 802:11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8,19	±9.69
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN		±9.6 9
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.32	±9.6 %
10424	AAE	IEEE 802.11n (HT Groonfield, 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 %
10428	MAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.41	±.9.6 %
10427	AAB:	IEEE 802.11n (HT-Greonfield, 150 Mbps, 64-QAM)	160 p. 50/07.b	8:45	19.6%
10430	AAB	LTE-FOD (OFDMA, S.MHz, E-TM 3, 1)	WILAN	8.41	±9.6 %
10431	CAAC	LTE-FOD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FOO	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-FOD	8.34	±9.6%
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	LTE-FDD	6.34	± 9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL S(b))	WCDMA	8.60	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	L/TE-TDD	7.82	± 9.6 %
10448	AAA	LTE PDD (OFDMA, 5 MHZ, E-1M 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6 %
10448	-	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	±9.5 %
10450	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7,51	±9.6 %
10451	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6 %
10453	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA:	7.59	±9.6%
	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	±9.6%
0456	AAC	IEEE 802.11nc WiFi (169MHz, 64-CIAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6 %
0460	AAC	JMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.5 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
0462	AAG	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TOD	8.30	± 9.6 %
0463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	The second second second second
10464	CIAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, LIL Sub)	LTE-TDD	7.82	± 9.6 %
0465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TOD		± 9.6 %
0466	AAC	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TOD	8,32	± 9.6 %
0467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	8.57	19.6%
0468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOO	7.82	± 9,6 %
0469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL SUb)		8,32	# 9.6 %
0470	AAD	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	8,56	±9.6 %
0471	AAC.	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TOO	7.82	±9.6 %
0472	AAC	LTE-TOD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.32	±9.6 %
0473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	8,57	# 9.6 %
0474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-DAM, UL Sub)	LTE-TDD	7.82	±9.6 %
0475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
0477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.57	±9.6 %
0478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 84-QAM, UL Sub)	LTE-TOD	8.32	±9.6 %
0479	AAC	LTE TOD (SC-FDMA, TRB, 20 MHZ, 64-CJAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
0480	A STATE OF THE PARTY OF THE PAR	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6 %
)481	AAA	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	±9.6 %
)482	AAA	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TOD	8.45	±9.6 %
M-62 1483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TOD	7.71	±9.6 %
100	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TOD	8.39	± 9.6 %
3484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	±9.6 %
485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TOD	7,59	±9.6 %
0486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOD	8.38	±9.6%
3487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 84-QAM, UL Sub)	Province Control	0.7F1(26MC)	apr 44 (4) (50)

ABABB	-			=944	CONTRACTOR SERVICES
10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK, UL Sub)	LTE-TOD	7.70	± 9.6 %
10489	AAC	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TOD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	196 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TOD	8.55	±9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TOD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 29 MHz, 16-QAM, UL Sub)	LTE-TOD	8.37	± 9.6 %
10496	AAE	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TOD	7.67	± 9.6 %
10498	AAE	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TOD	8.40	±9.6 %
10499	MAC	LTE-TOD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TOD	8.68	±9.6%
10500	MAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, OPSK, UL Sub)	LTE-TOD	7.67	± 9.6 %
10501	AAF	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TOD	8.44	
10602	AAB	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TOO	8.52	±9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD		± 9.6 %
10504	AAB	LTE-TED (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOD	7.72	±9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 160% RB, 5 MHz, 64-OAM, UL Sub)	LTE-TOD	8.31	±9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, GPSK, UL Sub)		8.54	±9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 18-QAM, UL Sub)	LIE-TOD	7.74	±9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UI, Sub)	LTE-TDD	B,36	土9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TOD:	8,55	±9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub).	LTE-TOD	7.99	±9.6 %
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.49	±9.6 %
10512	AAF	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TOD	8,51	±9.6 %
10513	AAF	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TOD	7.74	±9.6 %
10514	AAE	TE-TOO (SC EDMA, 100% DD, 20 MHz, Te-QAM, UL Sub)	LTE-TDD	8.42	±9.6 %
10515		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TOO	8.45	±9,6%
10516	AVE	IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	±9.6 %
10517	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	±9.6 %
10518	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	±9.6 %
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc do)	WLAN	8.23	±9.6%
10520	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	±9.6 %
10521	AAB	IEEE 802, 11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	±9.6 %
10522	AAB	IEEE 802, 11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WEAN	7.97	±9.6%
	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	±9.6%
10523	AAG	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc do)	WLAN	8.08	±9.6 %
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	±9.6 %
10525	AAC	IEEE 802,11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
0527	AAF	IEEE 802 11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8,21	±9.6 %
0528	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	±9.6 %
0529	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc de)	WLAN	8.36	± 9.8 %
0531	AAE	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
0532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	
0533	AAE	IEEE 802.11ac WiFI (20MHz, MCS8, 99pc dc)	WLAN	8.38	±9.6 %
0534	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	±9.6 %
0535	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN		±9.6 %
0536	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 99pt dc)	WLAN	8.45	± 9.6 %
0537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.32	± 9.6 %
0538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.44	±9.6 %
0540	AAA	IEEE 802 11ac WiFi (40MHz, MCS6, 98pc dc)		8.54	± 9.6 %
0541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.39	±9.6 %
0542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.46	±9.6 %
0543	AAC	IEEE 802 11ag WiFi (40MHz, MCS9, 99pc do)	WLAN	8.65	±9,6 %
0544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.65	± 9.6 %
0545		IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8,47	±9.6 %
8.8070	AAC	mere over Lon Auto Tanwins' MC91' (Rabe qq)	WLAN	8.55	± 9.6 %

10546	AAC	IEEE 802.11ao.WiFi (80MHz, MCS2, 99pc dc)	T AM AN		
10547	AAC	IEEE 802.11ac WIFI (80MHz, MCS3, 99pc de)	WLAN	8,35	#9.6 %
10548	AAC	IEEE 802.11ac WiFI (80MHz, MCS4, 99pc dc)		-8,49	# 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.37	±9.6%
10551	AAC	IEEE 802,11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.38	±9.8 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8:50	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc do)		8.42	± 9.6 %
10554	AAC	IEEE 802 11ac WiFi (160MHz, MCS0, 99pc do)	WLAN	8.45	± 9.6 %
10555	AAC	IEEE 802 11sc WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.48	± 9.6 %
10556	AAC	IEEE 802.11ar: WiFi (160MHz, MCS2, 99pc do)		8.47	±9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc do)	WLAN	8.50	± 9.6 %
10558	AAC	IEEE 802.11ec WiFi (160MHz, MCS4, 09pc dd)	WLAN	8,52	±9.6 %
10560	AAC	IEEE 802.11ac WiF) (160MHz, MCS6, 99pc do)	VVLAN	8.61	土9.6%
10561	AAC	JEEE 802.11ac WiFi (160MHz, MCS7, 99pc do)	WLAN	8.73	± 9.6 %
10562	AAC	IEEE 802.11ac WIFI (160MHz, MCS8, 99pc dc)	WLAN	8.56	±9.6 %
10563	MAG	IEEE 802.11ac WIFI (160MHz, MCS9, 99pc do)	WLAN	8.69	±9.6 %
10564	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dis)	WEAN	8,77	±9.6%
10565	AAC	IEEE 9/12 to WIELD A CITY WARREN OF DATA TO THE	WLAN	8.25	1.9.6 %
10566	AAC	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	±9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10588	-	IEEE 802 11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 199c dc)	WLAN	8.00	±9.6 %
10569	AAC	IEEE 802 11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc do)	WEAN	8.37	196%
10570	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc do)	WLAN	8.10	±9.6 %
10571	AAC	IEEE 802 11g WIFI 2 4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	19.6 %
10572	AAC	IEEE 802 11b WIFI 2 4 GHz (DSSS, 1 Mbps, 90pc dc)	WEAN	1.99	±9.6 %
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps; 90pc dc)	WLAN	1.99	士9.6%
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc do)	WLAN	1.98	±9.6 %
10575	MC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 8 Mbps, 90pc do)	WLAN	8,59	±9.6 %
10577	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	±9.6 %
10578	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	±9.6 %
10579	AAD	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	±9.6%
10580	AAD	IEEE 802.11g WIF1 2.4 GHz (DSSS-QFDM, 24 Mbps, 90pc dc)	WLAN	8.36	±9.6 %
10581	AAD	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	±9.6 %
	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	±9.6 %
10584	CIAA	1EEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc do)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 12 Mbps, 90pc do)	WLAN	8.70	±9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc do)	WEAN	8.49	±9.6 %
10587	AAA	IEEE 802:11a/h W/Fi 5 GHz (OFDM, 24 Mbps, 90pc de)	WLAN	8.36	±9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc do)	WLAN	8.76	±9.6 %
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	±9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	±9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	±9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
0596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	±9.6 %
1069B	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pt dc)	WLAN	8.50	± 9.6 %
0599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	±9.6 %
0600	AAA	IEEE 802 11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	±9.6 %
0601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WEAN	8.82	± 9.6 %
0602	AAA	IEEE 802.1 in (HT Mixed, 40MHz, MCS3, 90pc do)	WLAN	8.94	± 9.6 %
0603	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	±9.6 %

10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	±9.6%
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	±9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	19.6%
10607	AAC	IEEE 802.11aa WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	±9.6 %
10810	AAC	IEEE 802.11ac WiFI (20MHz, MCS3, 90pc dc)	WEAN	6.78	±9.6 %
10611	AAC	IEEE 802 11ac WiFi (20MHz; MCS4, 90pc dc)	WLAN		±9.6 %
10612	AAC	IEEE 802.11as WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.70	±9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WCAN	8.77	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WEAN	8.94	±9.6 %
10515	AAC	IEEE 802.11ac WiFi (20MHz, MCISS, 90pc dc)	WLAN	8.59	± 9,6 %
10616	:AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc do)	WLAN	8.82	± 9.6 %
10617	WAC	IEEE 802.11nc WiFi (40MHz, MCS1, 90pc dc)	100 PM 11 C / 4 F	8.82	± 9,6 %
10618	AAC	IEEE 802.11ac WiF) (40MHz, MCS2, 90pc do)	WLAN	8.81	±.9.6 %
10619	AAC	IEEE 802.11ac WiFI (40MHz, MCS3, 90pc dc)	WLAN	8,58	±9.6 %
10820	AAC	ISEE 802.11to WiFi (40MHz, MCS4, 90pc dc)	WLAN	8,86	± 9.6 %
10621	AAC	TEEE 802.11uc WIF) (40MHz, MC55, 90pc dc)	WLAN	8.87	± 9.6 %
10622	AAC	IEEE 802 11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	(BEEN)	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	B.68	土 9.8 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc do)	WLAN	8.82	±9.6 %
10625	AAC		WEAN	8.96	± 9.6 %
10626	1000000	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc do)	WLAN	8.96	±9.6 %
10627	AAC	IEEE 802 11ac WIFI (80MHz, MCS0, 90pc dc)	WEAN	8.83	±9.6 %
10628	AAC	IEEE 802_11ac WiFi (80MHz, MCS1, 90pc dc)	WEAN	8.88	±9.6 %
	AAC	IEEE 802.11ac WiFi (80MFtr, MCS2, 90pc dc)	WLAN	8.71	±9.6 %
10629	AAC	IEEE 802, 11ac WIFI (80MHz, MCS3, 90pc dc)	WLAN	8.85	±9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc de)	WLAN	8.72	± 9.6 %
10631	AAG	IEEE 802.11sc WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	±9.6 %
10832	AAC	IEEE 802-11ac WiFi (80MHz, MCS6, 90pc dc)	VYLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc do)	WLAN	8.83	±9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WIFI (80MHz, MCS9, 90pc dc)	WLAN	8.81	±9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	±9.6 %
10637	AAC	IEEE 802 11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	±9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	±9.6 %
10039	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	±9.6%
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (150MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10542	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz; MCS8, 90pc dc)	WLAN	9.05	-
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	±9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD		±9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TOD	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-TOD	6.91	±9.6 %
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	The state of the s	7,42	±9.6 %
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	6.96	19,6 %
0658	AAC	Pulse Waveform (200Hz, 10%)	LTE-TOD	7.21	± 9.6 %
0659	AAC	Pulse Waveform (200Hz, 20%)	Test	10:00	±9.6 %
0660	AAC	Pulse Waveform (200Hz, 40%)	Test	6.99	±9.6 %
10681	AAC	Pulse Waveform (200Hz, 60%)	Test	3.98	±9.6 %
0662	AAC	Pulse Waveform (200Hz, 80%)	Test	2.22	±9.6 %
0670	AAC	Bluelooth Low Energy	Test	0.97	±9.6 %
0671	AAD	IEEE 802.11ax (20MHz, MCS0, 90pg dc)	Bluetooth	2.19	±9.6 %
W.42.1	PVILI	WELL AND LOW (KOMILET MICSO" RODG GC)	WLAN	9.09	±9,6 %

10672	AAD	IEEE 802,11ax (20MHz, MCS1, 90pc dc)	1.000/854	acedines:	
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8,57	±9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.78	±9.69
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.74	±9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.90	±9.6%
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WEAN	8.77	±9.5%
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.73	±9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.78	±9.6 %
10080	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.89	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.80	±9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 80pc dd)	WLAN	8.62	± 9.6 %
10683	AAA	IEEE 802.1 fax (20MHz, MCS0, 99pc dc)	WLAN	8.83	±9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.42	土9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99bc de)	WLAN	8.26	±.9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	6,33	±9.6 %
10687		IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.28	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MC55, 99pc dg)	WLAN	18:45	± 9.6 %
10689	1000		WLAN	8.29	± 9.6 %
10690	AAD	IEEE 802,11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10691	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6%
10692	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	±9.6%
10693	AAA	IEEE 802.11ax (20MHz. MCS9, 99pc dc)	WEAN	8.29	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc do)	WLAN	8.25	±9.6%
10695	AAA	IEEE 802.11ax (20MHz, MCS11; 99pc do)	WEAN	8,57	±9.6 %
	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8,78	± 9.6 %
10696 10697	AAA	JEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	±9.6 %
CRUHINDUS	AAA	IEEE 802.11ax (40MHz, MCS2, B0pc dc)	WLAN	8.61	±9.6 %
10698	WAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8,89	±9.6 %
10699	AAA	IEEE 802.11ex (40MHz, MCS4, 90pc dd)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc de)	WLAN	8.73	±9.6%
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	±9.6%
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	±9.6%
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6%
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	£9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	±9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAC	IEEE 802 11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	±9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99po do)	WEAN	8.55	±9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc do)	WLAN	8.33	±9.6 %
10710	AAC	IEEE 802.11ex (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 98pc dc)	WLAN	8.39	±9.6 %
10712	AAC	IEEE 802,11ax (40MHz, MCS5, 99pc do)	WLAN	8.67	±9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	±9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	±9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	±9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	±9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8,48	± 9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8:24	±9.6 %
10719	AAC	IEEE 802, 11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9,6 %
10721	AAC	IEEE 802 11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8,55	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8:70	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc do)	WLAN	8:74	- harries and the same
10726	AAC	IEEE 802,11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	±9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc do)	WLAN	0.12	±9.6 %

10728	AAC	IEEE 802.11ax (80MHz, MC59, 90pc dc)	WLAN	0.05	9200000
10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.65	±9.6%
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	±9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	±9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	±9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802 11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	-	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.27	±9,6 %
10738	AAC	IEEE 802.11ex (80MHz, MCS7, 99pc do)	WLAN	The State of	±9.6 %
10739	AAC	IEEE 802.1 Tax (80MHz, MCS8, 99pc dc)	WLAN	8,42	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.29	土 9.6 %
10741	AAD:	IEEE 802.11ax (80MHz, MCS10, 99pc do)	WLAN	8,48	±:0.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.40	±9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc do)	WEAN	8.43	± 9.6 %
10744	AAC	IEEE 802.11 ₍₀₀ (160MHz, MCS1, 90pc dc)	WLAN	8.94	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)		9.16	±96%
10748	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	8.93	±9.6 %
10747	AAC	IEEE 802_11ex (160MHz, MCS4, 90pc dc)	WLAN	9.11	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pg dc)	WLAN	9.04	±9.6 %
10749	AAC	IEEE 802.118x (160MHz, MCS6, 90pc dq)	WLAN	0.93	±9.6 %
10750	AAC	IEEE 802_11ax (160MHz, MCS7, 90pc do)	WLAN	8.90	±9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc do)	WLAN	8,79	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc do)	WLAN	8.82	±9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 80pc de)	WLAN	8,81	±9.6 %
10754	AAC	IEEE 802.1 fax (160MHz, MCS11, 90pc dc)	WLAN	9.00	±9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.94	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.64	±9.6%
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.77	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.69	±9.6 %
10780		IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.58	±9.6 %
10761	AAC		WLAN	8.49	±9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.58	±96%
10763	AAC	IEEE 802 11ax (150MHz, MCS7, 99pc dc)	WLAN	8,49	±9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	±9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc do)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	±9.6 %
10767	AAC	IEEE 802.11ex (160MHz, MCS11, 99pc do)	WLAN	8.51	±9.6 %
200000	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7,99	±9.6%
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 KHz)	5G NR FR1 TOD	8.01	±9.6 %
0769	AAC	5G NR (CP-QFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
0770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6 %
0771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6%
0772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6 %
0773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
07.74	AAC	5G NR (CP-DFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8:02	±9.6 %
0775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6 %
0776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6 %
0777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
0778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
0779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
0780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, CPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6 %
0781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
0782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
0783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)		1007/00/2	4 0.0 76

10784	LAAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)		Septem)	NATE 30 202
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, 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		50 NR FR1 TDD	8.35	±9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QP5K, 15 kHz)	5G NR FRI TDD	8.44	± 9.6 %
10789	AAC	SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	50 NR FR1 TDD	8.39	±9.6 %
10790	-	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 ldHz)	5G NR FR1 TDD	8.39	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10793	AAC:	5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB. 15 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.95	±9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, CPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, CPSK, 30 kHz)	5G NR FR1 TDD	8:01	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
110712	AVC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR ER1 TOD	7.93	± 9.6 %
10801	AAC	SG NR (CP-OFDM, 1 RB, 80 MHz, QPSR, 30 kHz)	5G NR FR1 TOD	7.89	± 9.6 %
10802	AAC	5G NR (CP-DFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR ER1 TOD	7.87	±9.6%
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, GPSK, 30 kHz)	5G NR FR1 TOD	0.34	19.6%
10805	AAD	5G NR (CP-OFDM, 58% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.37	±9.6%
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 MHz)	5G NR FR1 TDD	8.34	±9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6 %
10817	AAD	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6%
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.41	± 9.6 %
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6 %
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	SG NR FR1 TDD	8.42	19.6%
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6 %
10829	AAD	5G NR (CP-OFDM, 100% R8, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TOD	7.70	±9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	土9.6%
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 50 kHz)	5G NR FR1 TDD	7,70	19.6%
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD		±9.6 %
10837	AAD	5G NR (CP-DFDM, 1 RB, 60 MHz, QPSK, 50 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, 80 kHz)	5G NR FR1 TDD	7.67	± 9.6 1%
0843	CIAA	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)		7.71	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, CPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.49	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)		8.34	±9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz; CPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6 %
0856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	±9.6 %
0857	AAD	SG NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 80 kHz)	5G NR FR1 TDD	8.37	±9.6 %
0858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6 %
0859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
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100860	[AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	0.11	
10861	AAD	5G NR (CP-OFDM, 100% R8, 60 MHz, GPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.8 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FRI TOD	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)		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, OPSK, 120 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 TOD	5.75	± 9.6 %
10871	AAD	5G NR (DFT-8-DFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.86	土 旦 6 %
10872	AAD	5G NR (DET 5-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TOD	6.52	±9.6 %
10874	AAD	5G NR (DET-E-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TOO	6.61	±9.6 %
10875	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.65	±9.6 %
10875	AAD		SG NR FR2 TDD	7.78	£9.6.%
10877		5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TOD	8.39	3.8.6.%
10878	AAD	5G NR (CP-OFOM, 1 RB, 100 MHz, 16GAM, 120 MHz)	5G NR FR2 TOD	7.95	±9.6%
10879	AAD	5G NR (CP-OFOM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6 %
10880	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 128 kHz)	5G NR FR2 TDD	8.12	±9.6%
10881	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	SG NR FR2 TDD	5.75	±9.6 %
	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TOD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-II-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	0.57	±9,6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9,6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6 %
10887	AAD	5G NR (CP-OFOM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6%
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	#9.6%
10891	CAA	5G NR (CP-OFDM, 1 RB, 50 MHz, 54QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD		±9.6 %
10897	CIAA	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.41	±9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±96%
10898	AAD	5G NR (DFT-s-DFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,67	±9.6%
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,67	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.68	±9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)		5.68	± 9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9,6 %
10910	AAD	9G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	#9.6 %
10911	AAD	SG NR (DET a OPDIA SON DR. 20 MHZ, QPSK, 30 KHZ)	5G NR FR1 TDD	5.83	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.93	± 9.6 %
10913	-	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6%
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6 %
	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
0918	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
0918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	5.86	± 9.6 %
0919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
0920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %

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10922	(IAA	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, GPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, CIPSK, 30 kHz)	5G NR FR1 TDD	5.84	19.6 %
10924	AAD	5G NR (DFT-8-OFDM, 100%, RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	19.6 %
10925	AAD	5G NR (DFT-5-OFDM, 100% R8, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-9-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	100000000000000000000000000000000000000
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 % ± 9.6 %
10931	AAD	5G NR (DET-II-DEDM, 1 RB, 20 MHz, GPSK, 15 kHz)	5G NR FR1 FDD	5.51	
10932	/AB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5:51	±9.6%
10933	AAA	5G NR (DET-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		19.6%
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, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5:51	±9.6%
10937	AAB	5G NR (DFT-s-OFDM, 56% RB, 10 MHz, QPSK, 15 kHz)		5.90	± 9.6 %
10938	AAB	SG NR (DET-1-OFDM, 50% RB, 16 MHz, OPSK, 15 kHz)	SG NR FR4 FD0	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 (OFT-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 (Hz)	5G NR FR1 FDD	5,89	±9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 MHz)	5G NR FRU FDD	5,83	2 9.6 %
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10944	AAB	5G NR (DFT-s-OFDM, 100%, RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, 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	19,6 %
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.87	#9.6%
10949	AA8:	5G NR (DET-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	SG NP (DET - OEDNA 100% PD 50 NPL OEDN, 15 KHZ)	5G NR FR1 FDD	5.94	±9.6%
10952	AAB	5G NR (DET-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	±9.6%
0953	AAEI	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6 %
10954	100000000000000000000000000000000000000	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10955	AAB	SG NR DL (CP-OFDM, TM 3.1, 15 MHz, 54-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
0958	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6 %
0957	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6%
0958	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6 %
0959	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6 %
0960	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8,33	± 9.6 %
	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	56 NR FR1 TDD	9.32	± 9.6 %
0961 0962	AAB	5G NR DL (CP-OFDM, TM 3:1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
A A POST OF	AAB	5G NR DL (CP-DFDM, TM 3:1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6 %
0963	AVB	5G NR DL (CP-DFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
0964	AAB	5G NR Dt. (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
0965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
0966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
0967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
0968	AAB	5G NR DL (CP-QFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
0972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
0973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
0974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

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