

# **SAR TEST REPORT**

# Test Report No. 14757979H-C-R1

Customer	Sony Interactive Entertainment Inc.	
Description of EUT	Wireless Controller	
Model Number of EUT	CFI-ZAC1	
FCC ID	AK8CFIZAC1	
Test Regulation	FCC47CFR 2.1093	
Test Result	Complied	
Issue Date	June 6, 2023	
Remarks	The highest reported SAR (1 g) Body : 0.11 W/kg	

Representative Test Engineer	Approved By
T. Nakagawa	Takayuki . L
Tomohisa Nakagawa Engineer	Takayuki Shimada Leader  ACCREDITED
☐ The testing in which "Non-accreditation" is displayed ☐ ☐ There is no testing item of "Non-accreditation".	CERTIFICATE 5107.02 is outside the accreditation scopes in UL Japan, Inc.

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 22.0

Test Report No. 14757979H-C-R1 Page 2 of 63

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- The information provided from the customer for this report is identified in Section 1.
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# **REVISION HISTORY**

# Original Test Report No. 14757979H-C

This report is a revised version of 14757979H-C. 14757979H-C is replaced with this report.

Revision	Test report No.	Date	Page Revised Contents
- (Original)	14757979H-C	May 12, 2023	-
1	14757979H-C-R1	June 6, 2023	Cover page - Corrected The highest reported SAR (1 g) of Remarks column: < 0.10 W/kg → 0.11 W/kg
			Section 4.2 - Corrected highest reported SAR: 0.08 → 0.11
			Section 5 - Added duty to Table 1
			Section 10.1 - Corrected a typographical error: SCP → SPC
			Section 12.1 - Corrected Duty in the table: 100 → 76.9

Test Report No. 14757979H-C-R1 Page 3 of 63

# Reference: Abbreviations (Including words undescribed in this report)

AAN	Asymmetric Artificial Network	GPS	Global Positioning System
AC	Alternating Current	Hori.	Horizontal
AM	Amplitude Modulation	ICES	Interference-Causing Equipment Standard
AMN	Artificial Mains Network	I/O	Input/Output
Amp, AMP	Amplifier	IEC	International Electrotechnical Commission
ANSI	American National Standards Institute	IEEE	Institute of Electrical and Electronics Engineers
Ant, ANT	Antenna	IF	Intermediate Frequency
AP	Access Point	ILAC	International Laboratory Accreditation Conference
ASK	Amplitude Shift Keying	ISED	Innovation, Science and Economic Development Canada
Atten., ATT	Attenuator	ISN	Impedance Stabilization Network
AV	Average	ISO	International Organization for Standardization
BPSK	Binary Phase-Shift Keying	JAB	Japan Accreditation Board
BR	Bluetooth Basic Rate	LAN	Local Area Network
ВТ	Bluetooth	LCL	Longitudinal Conversion Loss
BT LE	Bluetooth Low Energy	LIMS	Laboratory Information Management System
BW	BandWidth	LISN	Line Impedance Stabilization Network
C.F	Correction Factor	MRA	Mutual Recognition Arrangement
Cal Int	Calibration Interval	N/A	Not Applicable
CAV	CISPR AV	NIST	National Institute of Standards and Technology
CCK	Complementary Code Keying	NS	No signal detect.
CDN	Coupling Decoupling Network	NSA	Normalized Site Attenuation
Ch., CH	Channel	OBW	Occupied BandWidth
CISPR	Comite International Special des Perturbations Radioelectriques	OFDM	Orthogonal Frequency Division Multiplexing
Corr.	Correction	PER	Packet Error Rate
CPE	Customer premise equipment	PK	Peak
CW	Continuous Wave	P <sub>LT</sub>	long-term flicker severity
DBPSK	Differential BPSK	POHC(A)	Partial Odd Harmonic Current
DC	Direct Current	Pol., Pola.	Polarization
DET	Detector	PR-ASK	Phase Reversal ASK
D-factor	Distance factor	P <sub>ST</sub>	short-term flicker severity
Dmax	maximum absolute voltage change during an observation period	QAM	Quadrature Amplitude Modulation
DQPSK	Differential QPSK	QP	Quasi-Peak
DSSS	Direct Sequence Spread Spectrum	QPSK	Quadrature Phase Shift Keying
DUT	Device Under Test	r.m.s., RMS	Root Mean Square
EDR	Enhanced Data Rate	RBW	Resolution BandWidth
e.i.r.p., EIRP	Equivalent Isotropically Radiated Power	RE	Radio Equipment
EM clamp	Electromagnetic clamp	REV	Reverse
EMC	ElectroMagnetic Compatibility	RF	Radio Frequency
EMI	ElectroMagnetic Interference	RFID	Radio Frequency Identifier
EMS	ElectroMagnetic Susceptibility	RNSS	Radio Navigation Satellite Service
EN	European Norm	RSS	Radio Standards Specifications
e.r.p., ERP	Effective Radiated Power	Rx	Receiving
ETSI	European Telecommunications Standards Institute	SINAD	Ratio of (Signal + Noise + Distortion) to (Noise + Distortion)
EU	European Union	S/N	Signal to Noise ratio
EUT	Equipment Under Test	SA, S/A	Spectrum Analyzer
Fac.	Factor	SG	Signal Generator
FCC	Federal Communications Commission	SVSWR	Site-Voltage Standing Wave Ratio
FHSS	Frequency Hopping Spread Spectrum	THC(A)	Total Harmonic Current
FM	Frequency Modulation	THD(%)	Total Harmonic Distortion
Freq.	Frequency	TR, T/R	Test Receiver
FSK	Frequency Shift Keying	Tx	Transmitting
Fund	Fundamental	VBW	Video BandWidth
FWD	Forward	Vert.	Vertical
GFSK	Gaussian Frequency-Shift Keying	WLAN	Wireless LAN
		xDSL	Generic term for all types of DSL technology
GNSS	Global Navigation Satellite System		(DSL: Digital Subscriber Line)

CONTENTS	PAGE
SECTION 1: Customer information	5
SECTION 2: Equipment under test (EUT)	
2.1 Identification of EUT	5
2.2 Product Description.	
SECTION 3: Test standard information	
3.1 Test Specification.	
3.2 Procedure	
3.3 Additions or deviations to standard	6
3.4 Exposure limit	
3.5 SAR	7
3.6 Test Location	
SECTION 4: Test result	8
4.1 Result	
4.2 Stand-alone SAR result	8
4.3 Simultaneous transmission SAR result	
SECTION 5: Tune-up tolerance information and software information	
SECTION 6: RF Exposure Conditions (Test Configurations)	10
6.1 Summary of the distance between antenna and surface of EUT	
6.2 SAR-based Exemption - FCC section 1.1307	
SECTION 7: Description of the Body setup	11
7.1 Procedure for SAR test position determination	
7.2 Test position for Body setup	
SECTION 8: Description of the operating mode	
8.1 Output Power and SAR test required	
SECTION 9: Test surrounding	
9.1 Measurement uncertainty	
SECTION 10: Parameter Check	
10.1 SAR system check and SAR measurement result	14
SECTION 11: System Check confirmation	15
SECTION 12: Measured and Reported (Scaled) SAR Results	16
12.1 Result of Body SAR of BT	16
SECTION 13: Test instruments	17
APPENDIX 1: System Check	18
APPENDIX 2: SAR Measurement data	
APPENDIX 3: System specifications	
APPENDIX 4: Photographs of test setup	

Test Report No. 14757979H-C-R1 Page 5 of 63

# **SECTION 1: Customer information**

Company Name	Sony Interactive Entertainment Inc.	
Brand Name	I Name SONY	
Address	1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan	
Telephone Number	+81-50-3807-5639	
Contact Person	Miho Nakamura	

The information provided from the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 5: Tune-up tolerance information and software information
- \* The laboratory is exempted from liability of any test results affected from the above information in SECTION 2 and 5.

#### **SECTION 2: Equipment under test (EUT)**

#### 2.1 Identification of EUT

Description	Wireless Controller	
Model Number	CFI-ZAC1	
Serial Number	No.0114	
Condition	Engineering prototype	
	(Not for Sale: This sample is equivalent to mass-produced items.)	
Modification	No Modification by the test lab	
Receipt Date	April 5, 2023	
Test Date	April 6 to 20, 2023	

# 2.2 Product Description

# **General Specification**

Rating	DC 5 V (USB Bus Power) DC 3.7 V (Battery)
Operating temperature	5 deg. C to 35 deg. C

## **Radio Specification**

# Bluetooth (BR / EDR)

= 1.1.01.01.01.1.1.1.1.1.1.1.1.1.1.1.1.1.		
Equipment Type	Transceiver	
Frequency of Operation	2402 MHz to 2480 MHz	
Type of Modulation	FHSS (GFSK, π/4 DQPSK, 8 DPSK)	
Antenna Gain	3.4 dBi	

Test Report No. 14757979H-C-R1 Page 6 of 63

# **SECTION 3: Test standard information**

# 3.1 Test Specification

Title : FCC47CFR 2.1093

Radiofrequency radiation exposure evaluation: portable devices.

Published RF exposure KDB procedures

Tubilotica Til Oxpocato Tibb procedates		
⊠ KDB 447498 D04(v01)	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices	
☐ KDB 447498 D02(v02r01)	SAR Measurement Procedures for USB Dongle Transmitters	
☐ KDB 648474 D04(v01r03)	SAR Evaluation Considerations for Wireless Handsets	
☐ KDB 941225 D01(v03r01)	3G SAR Measurement Procedures	
☐ KDB 941225 D05(v02r05)	SAR Evaluation Considerations for LTE Devices	
☐ KDB 941225 D06(v02r01)	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities (Hot Spot SAR)	
☐ KDB 941225 D07(v01r02)	SAR Evaluation Procedures for UMPC Mini-Tablet Devices	
☐ KDB 616217 D04(v01r02)	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers	
☑ KDB 865664 D01(v01r04)	SAR Measurement Requirements for 100 MHz to 6 GHz	
☐ KDB 248227 D01(v02r02)	SAR Guidance for 802.11(Wi-Fi) Transmitters	

# 3.2 Procedure

Transmitter	WLAN and Bluetooth
UL Japan, Inc. 's SAR Work	Procedures: Work Instructions-ULID-003598 and Work Instructions-ULID-003599

# 3.3 Additions or deviations to standard

Other than above, no addition, exclusion nor deviation has been made from the standard.

Test Report No. 14757979H-C-R1 Page 7 of 63

# 3.4 Exposure limit

Limits for Occupational/Controlled Exposure (W/kg)

-	Spatial Peak	Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)
0.4		20.0

Limits for General population/Uncontrolled Exposure (W/kg)

	•	Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)
0.08	1.6	4.0

**Occupational/Controlled Environments:** are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

**General Population/Uncontrolled Environments:** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

#### NOTE:GENERAL POPULATION/UNCONTROLLED EXPOSURE SPATIAL PEAK(averaged over any 1 g of tissue) LIMIT 1.6 W/kg

#### 3.5 **SAR**

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

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

SAR is expressed in units of watts per kilogram (W/kg) or equivalently milliwatts per gram (mW/g).

SAR is related to the E-field at a point by the following equation:

$$SAR = \frac{\sigma |E|^2}{\rho}$$

where

 $\sigma$  = conductivity of the tissue (S/m)

 $\rho$  = mass density of the tissue (kg/m<sup>3</sup>)

E = rms E-field strength (V/m)

# 3.6 Test Location

UL Japan, Inc. Ise EMC Lab. Shielded room for SAR testing

\*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone: +81-596-24-8999

Test Report No. 14757979H-C-R1 Page 8 of 63

# **SECTION 4: Test result**

# 4.1 Result

Complied, based on procedure, the calculated uncertainty is lower than 30 %, so results are directly compared. Highest values at each band are listed next section.

# 4.2 Stand-alone SAR result

		Equipment Class -	Equipment Class - Highest Reported SAR (W/kg)							
		PCE	DTS	NII	DSS (Bluetooth BR/EDR)					
Standalone Tx	Head	NA	NA	NA	NA					
	Body-worn	NA	NA	NA	0.11					
	Hotspot		NA	NA	NA					

Unit W/kg

# 4.3 Simultaneous transmission SAR result

EUT does not have simultaneous transmission functionality.

<sup>\*</sup>Details are shown at section 12.1

Test Report No. 14757979H-C-R1 Page 9 of 63

# **SECTION 5: Tune-up tolerance information and software information**

Maximum tune-up tolerance limit

BT (all mode) +4.0 dBm

#### Software setting

The power value of the EUT was set for testing as follows (setting value might be different from product specification value)

Power settings:

Software: BT Tool version W1645 (Build Date: 2016.10.31)

Firmware: PlayStation Wireless Controller FW for function Control, Version: 0.1.66

(Build Date: 2023.03.22 / Storage location: IC101)

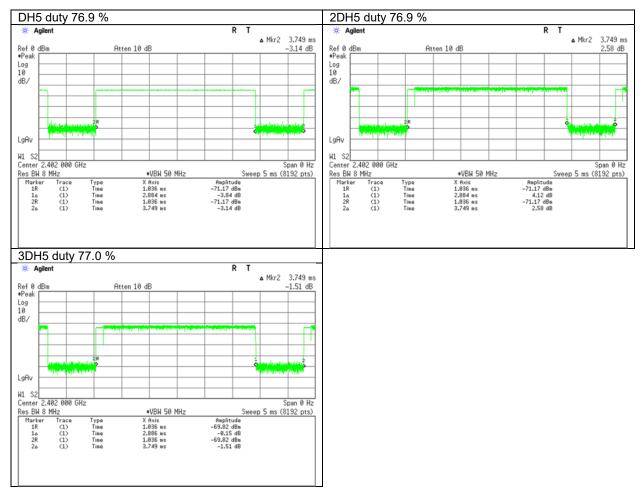
This setting of software is the worst case.

The test was performed with condition that obtained the maximum average power (Burst) in pre-check.

Any conditions under the normal use do not exceed the condition of setting.

In addition, end users cannot change the settings of the output power of the product.

Table 1 Duty Confirmation for Bluetooth



Duty (%) = on time / (on time + off time) \* 100

Test Report No. 14757979H-C-R1 Page 10 of 63

# **SECTION 6: RF Exposure Conditions (Test Configurations)**

## 6.1 Summary of the distance between antenna and surface of EUT

Test position	Distance
Front	< 5mm
Rear	< 5mm
Side1	< 5mm
Side2	< 5mm

<sup>\*</sup>All test position are calculated by < 5 mm as conservative.

All other position are exempted by power threshold or confirmed quite low SAR based on pre-scan. Details are shown in appendix.

# 6.2 SAR-based Exemption - FCC section 1.1307

Exception condition as per section 1.1307 (b)(3)(i)(B)

the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P<sub>th</sub> (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P<sub>th</sub> is given by:

$$P_{th} (mW) = \begin{cases} ERP_{20dm} (d/20 \ cm)^x & d \le 20 \ cm \\ ERP_{20cm} & 20 \ cm < d \le 40 cm \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20dm}\sqrt{f}}\right)$$
 and f is in GHz;

And

$$ERP_{20cm}(mW) = \begin{cases} 2040 \ f \end{cases}$$
 0.3  $GHz \le f < 1.5 \ GHz$   
1.5  $GHz \le f \le 6 \ GHz$ 

d = the separation distance.

In the table below, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion and when the separation of antenna to EUT's surfaces and edges are ≤ 5 cm, the separation distance used for the SAR exclusion calculations is 0.5 cm.

As per section 1.1307 (b)(2)

Separation distance is the minimum distance in any direction from any part of a radiating structure and any part of the body of a nearby person.

Radiating structure is an unshielded RF current-carrying conductor that generates an RF reactive near electric or magnetic field and/or radiates an RF electromagnetic wave. It is the component of an RF source that transmits, generates, or reradiates an RF fields, such as an antenna, aperture, coil, or plate.

gonoratee,	interaction, or retain action and art arterina, apertare, cent, or place.											
Antenna	Band	Frequency	Output Power	or ERP	Separation Di	stances (mm)		Calculated Threshold Value				
		[MHz]	dBm	mW	Front	Rear	Side1	Side2	Front	Rear	Side1	Side2
ВТ	2.4 GHz	2402	5.26	3	5.00	5.00	5.00	5.00	3 mW -MEASURE-	3 mW -MEASURE-	3 mW -MEASURE-	3 mW -MEASURE-

Test Report No. 14757979H-C-R1 Page 11 of 63

# **SECTION 7: Description of the Body setup**

# 7.1 Procedure for SAR test position determination

The tested procedure was performed according to the KDB 447498 D04 (Interim General RF Exposure Guidance).

# 7.2 Test position for Body setup

No.	Position	Test distance	Bluetooth Tested
1	Front	0 mm	Yes
2	Rear	0 mm	Yes
3	Side 1	0 mm	Yes
4	Side 2	0 mm	Yes

Test Report No. 14757979H-C-R1 Page 12 of 63

# **SECTION 8: Description of the operating mode**

# 8.1 Output Power and SAR test required

Date of Output power measurement April 20, 2023 Temperature / Humidity 23 deg. C / 40 % RH

Mode	Data Rate	Ch#	Freq. (MHz)	Tune-up upper Pow er (dBm) (Burst)	Measured average Pow er (dBm) (Burst)	Initial test configuration	Note(s)
Bluetooth	DH5	1	2402	4.00	2.39		
		39	2441	4.00	2.40		
		79	2480	4.00	2.23		
Bluetooth	2DH5	1	2402	4.00	2.54		
		39	2441	4.00	2.60	Υ	
		79	2480	4.00	2.36		
Bluetooth	3DH5	1	2402	4.00	2.52		
		39	2441	4.00	2.59		
		79	2480	4.00	2.35		

# Note(s):

SAR measurement begin with the highest measured power, EDR 2DH5, and additionally low date rate mode is measured, BR.

Test Report No. 14757979H-C-R1 Page 13 of 63

# **SECTION 9: Test surrounding**

# 9.1 Measurement uncertainty

<Body>

300 MHz to 6 GHz

This measurement uncertainty budget is suggested by IEEE Std 1528(2013) and determined by Schmid & Partner Engineering AG (DASY5/6 Uncertainty Budget). Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz Section 2.8.1., when the highest measured SAR(1 g) within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std.1528 (2013) is not required in SAR reports submitted for equipment approval.

<Body>

<body></body>		Unce	rt.	Prob.	Div.	(ci)	(ci)	Std. Unc.	Std.Unc.
Error Description		value		Dist.		1 g	10 g	(1 g)	(10 g)
Measurement System									
Probe Calibration	±	6.55	%	N	1	1	1	± 6.55 %	± 6.55 %
Axial Isotropy	±	4.7	%	R	√3	0.7	0.7	± 1.9 %	± 1.9 %
Hemispherical Isotropy	±	9.6	%	R	√3	0.7	0.7	± 3.9 %	± 3.9 %
Linearity	±	4.7	%	R	√3	1	1	± 2.7 %	± 2.7 %
Modulation Response	±	2.4	%	R	√3	1	1	± 1.4 %	± 1.4 %
System Detection Limits	±	1.0	%	R	√3	1	1	± 0.6 %	± 0.6 %
Boundary Effects	±	2.0	%	R	√3	1	1	± 1.2 %	± 1.2 %
Readout Electronics	±	0.3	%	N	1	1	1	± 0.3 %	± 0.3 %
Response Time	±	8.0	%	R	√3	1	1	± 0.5 %	± 0.5 %
Integration Time	±	2.6	%	R	√3	1	1	± 1.5 %	± 1.5 %
RF Ambient Noise	±	3.0	%	R	√3	1	1	± 1.7 %	± 1.7 %
RF Ambient Reflections	±	3.0	%	R	√3	1	1	± 1.7 %	± 1.7 %
Probe Positioner	±	0.04	%	R	√3	1	1	± 0.0 %	± 0.0 %
Probe Positioning	±	8.0	%	R	√3	1	1	± 0.5 %	± 0.5 %
Post-processing	±	4.0	%	R	√3	1	1	± 2.3 %	± 2.3 %
Test Sample Related									
Device Holder	±	3.6	%	N	1	1	1	± 3.6 %	± 3.6 %
Test sample Positioning	±	2.9	%	N	1	1	1	± 2.9 %	± 2.9 %
Power Scaling	±	0.0	%	R	√3	1	1	± 0.0 %	± 0.0 %
Power Drift	±	5.0	%	R	√3	1	1	± 2.9 %	± 2.9 %
Phantom and Setup									
Phantom Uncertainty	±	7.6	%	R	√3	1	1	± 4.4 %	± 4.4 %
SAR correction	±	1.9	%	N	1	1	0.84	± 1.9 %	± 1.6 %
Liquid Conductivity (mea.)	±	5.0	%	N	1	0.78	0.71	± 3.9 %	± 3.6 %
Liquid Permittivity (mea.)	±	5.0	%	N	1	0.23	0.26	± 1.2 %	± 1.3 %
Temp. unc Conductivity	±	3.4	%	R	√3	0.78	0.71	± 1.5 %	± 1.4 %
Temp. unc Permittivity	±	0.4	%	R	√3	0.23	0.26	± 0.1 %	± 0.1 %
Combined Std. Uncertainty								± 12.6 %	± 12.4 %
<b>Expanded STD Uncertainty</b>	(ĸ:	=2)						± 25.2 %	± 24.9 %

Note: This uncertainty budget for validation is worst-case.

Test Report No. 14757979H-C-R1 Page 14 of 63

# **SECTION 10: Parameter Check**

The dielectric parameters were checked prior to assessment using the DAK dielectric probe kit. The dielectric parameters measurement is reported in each correspondent section.

According to KDB 865664 D01, +/- 5 % tolerances are required for  $\epsilon$ r and  $\sigma$  and then below table which is the target value of the simulated tissue liquid is quoted from KDB 865664 D01.

Target Frequency	Не	ead	Во	ody
(MHz)	ε <sub>τ</sub>	σ(S/m)	ε <sub>r</sub>	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 - 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

( $\varepsilon_{\rm r}$  = relative permittivity,  $\sigma$  = conductivity and  $\rho$  = 1000 kg/m<sup>3</sup>)

The dielectric parameters are linearly interpolated between the closest pair of target frequencies to determine the applicable dielectric parameters corresponding to the device test frequency.

# 10.1 SAR system check and SAR measurement result

			Tissue Simul	lating Liquids			
Frequency		Permittivity					
rrequericy	Measured	Target	Delta	Measured	Target	Delta	Note
[MHz]	ε'	ε'	+/- 5 [%]	σ [S/m]	σ [S/m]	+/- 5 [%]	
2402	37.35	39.29	-4.9	1.69	1.76	-3.6	
2441	37.29	39.22	-4.9	1.73	1.79	-3.7	
2450	37.27	39.20	-4.9	1.73	1.80	-3.7	SPC
2480	37.24	39.16	-4.9	1.76	1.83	-4.0	

SPC means system performance check.

Test Report No. 14757979H-C-R1 Page 15 of 63

#### **SECTION 11: System Check confirmation**

The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness:  $2.0 \pm 0.2$  mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.

The depth of tissue-equivalent liquid in a phantom must be  $\geq$  15.0 cm  $\pm$  0.5 cm for SAR measurements  $\leq$  3 GHz and  $\geq$  10.0 cm  $\pm$  0.5 cm for measurements > 3 GHz.

The DASY system with an E-Field Probe was used for the measurements.

The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom).

The standard measuring distance was 10 mm (above 1 GHz to 6 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.

The coarse grid with a grid spacing of 15 mm (below 2 GHz), 12 mm (2 GHz to 4 GHz) and 10 mm (4 GHz to 6 GHz) was aligned with the dipole.

Around this point found in the coarse grid, a volume of 30 mm x 30 mm x 30 mm or more was assessed by measuring 7 x 7 x 7 points at least for below 3 GHz, a volume of 28 mm x 28 mm x 34 mm or more was assessed by measuring 8 x 8 x 8(ratio step method) points at least for 3 GHz to 5 GHz and a volume of

28 mm x 28 mm x 24 mm or more was assessed by measuring 8 x 8 x 8(ratio step method) points at least for 5 GHz to 6 GHz and.

Distance between probe sensors and phantom surface was set to 1.4 mm.

The dipole input power (forward power) was 100 mW or 250 mW.

The results are normalized to 1 W input power.

#### **Target Value**

Condi	itions	Used equi	pment	Meas 250		Meas Normaliz		Reference value of cal and deviation			viation
Date	Frequency	Dipole	Phantom	1g	10g	1g	10g	(SPEAG)	(SPEAG)	[%]	[%]
	[MHz]	Antenna, S/N		[W/kg]	[W/kg]	[W/kg]	[W/kg]	1g [W/kg]	10g[W/kg]		
2023/04/06	2450	D2450V2,713	ELI	13.2	6.19	52.8	24.76	53.2	24.76	-0.75	0.00

The target(reference) SAR values can be obtained from the calibration certificate of system validation dipoles (Refer to Appendix 3). The target SAR values are SAR measured value in the calibration certificate scaled to 1 W.

Test Report No. 14757979H-C-R1 Page 16 of 63

# **SECTION 12: Measured and Reported (Scaled) SAR Results**

#### KDB 447498 D04:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ♦ ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and
  200 MHz
- According to Notice 2016-DRS001 based on the IEEE1528 and IEC 62209 requirements, the low, mid and high
  frequency channels for the configuration with the highest SAR value must be tested regardless of the SAR value
  measured.
- When reported SAR value is exceed 1.2 W/kg(if any), device holder perturbation verification is required; however, since distance between device holder and antenna of EUT is enough, it was not conducted.
- Reported SAR= Measured SAR [W/kg] \* Power Scaled factor \* Duty Scaled factor
- Maximum tune-up tolerance limit is by the specification from a customer.
- Power Scaled factor = Maximum tune-up tolerance limit [mW] / Measured power [mW]
- Duty Scaled factor = 1 / Duty (%) / 100
- Maximum tune-up tolerance limit is by the specification from a customer.

Note: Measured value is rounded round off to three decimal places

#### 12.1 Result of Body SAR of BT

				Power	(dBm)	Power		Duty	1-g SAF	R (W/kg)	
Test Position	Dist. (mm)	Mode	Freq. (MHz)	Tune-up upper Power	Measured average Power	Scaled factor	Duty (%)	Scaled factor	Meas.	Reported	Plot No.
Front	0	DH5	2402	4.00	2.39	1.45	76.9	1.30			
			2441	4.00	2.40	1.45	76.9	1.30			
			2480	4.00	2.23	1.50	76.9	1.30			
		2DH5	2402	4.00	2.54	1.40	76.9	1.30			
			2441	4.00	2.60	1.38	76.9	1.30	0.007	0.013	
			2480	4.00	2.36	1.46	76.9	1.30			
Rear	0	DH5	2402	4.00	2.39	1.45	76.9	1.30	0.048	0.090	
			2441	4.00	2.39	1.45	76.9	1.30	0.055	0.104	
			2480	4.00	2.23	1.50	76.9	1.30	0.056	0.109	BT.R
		2DH5	2402	4.00	2.54	1.40	76.9	1.30			
			2441	4.00	2.60	1.38	76.9	1.30	0.057	0.102	
			2480	4.00	2.36	1.46	76.9	1.30			
Side1	0	DH5	2402	4.00	2.39	1.45	76.9	1.30			
			2441	4.00	2.39	1.45	76.9	1.30			
			2480	4.00	2.23	1.50	76.9	1.30			
		2DH5	2402	4.00	2.54	1.40	76.9	1.30			
			2441	4.00	2.60	1.38	76.9	1.30	0.024	0.043	
			2480	4.00	2.36	1.46	76.9	1.30			
Side2	0	DH5	2402	4.00	2.39	1.45	76.9	1.30			
			2441	4.00	2.39	1.45	76.9	1.30			
			2480	4.00	2.23	1.50	76.9	1.30			
		2DH5	2402	4.00	2.54	1.40	76.9	1.30			
			2441	4.00	2.60	1.38	76.9	1.30	0.024	0.043	
			2480	4.00	2.36	1.46	76.9	1.30			

Duty data is shown in section 5.

Test Report No. 14757979H-C-R1 Page 17 of 63

# **SECTION 13: Test instruments**

For Output power measurement

Local Id	Description	Manufacturer	Manufacturer Model			Interval
MOS-31	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	3101	2022/07/03	12
MPSE-11	Power sensor	Anritsu Corporation	MA2411B	11737	2022/07/04	12
MPM-08	Power Meter	Anritsu Corporation	ML2495A	6K00003338	2022/07/04	12
MAT-89	Attenuator	Weinschel Associates	WA56-10	56100305	2022/05/12	12
MCC-245	Microwave cable	Huber+Suhner	SF126E/11PC35/ 11PC35/2000MM	537003/126E	2023/03/08	12
MSA-15	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	2022/09/27	12

For SAR measurement

Local Id	Description	Manufacturer	Model	Serial	Last Cal Date	Interval
COTS- MSAR-03	Dasy5	Schmid & Partner Engineering AG	DASY5	-	-	-
MDAE-01	Data Acquisition Electronics	Schmid & Partner Engineering AG	DAE4	509	2022/07/13	12
MPB-08	Dosimetric E-Field Probe	Schmid&Partner Engineering AG	EX3DV4	3917	2022/05/17	12
MOS-31	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	3101	2022/07/03	12
MRBT-04	SAR robot	Schmid & Partner Engineering AG	TX60 Lspeag	F13/5PP1A1/ A/01	2022/04/26	12
MPF-04	2mm Oval Flat Phantom	Schmid&Partner Engineering AG	QDOVA001BB	1207	2022/05/24	12
MDH-04	Device holder	Schmid & Partner Engineering AG	Mounting device for transmitter	-	2022/11/28	12
COTS- MPSE-02	Software for MA24106A	Anritsu Corporation	Anritsu PowerXpert	-	-	-
MAT-78	Attenuator	Telegrartner	J01156A0011	42294119	-	-
MPM-11	Dual Power Meter	Keysight Technologies Inc	E4419B	MY45102060	2022/08/05	12
MPSE-31	Power sensor	Keysight Technologies Inc	E9300H	MY62080002	2022/08/02	12
MPSE-24	Power sensor	Anritsu Corporation	MA24106A	1026164	2023/03/09	12
MPSE-25	Power sensor	Anritsu Corporation	MA24106A	1031504	2023/03/09	12
MHDC-21	Dual Directional Coupler	Keysight Technologies Inc	778D	MY52180243	-	-
MRFA-24	Pre Amplifier	R&K	R&K CGA020M602- 2633R	B30550	2022/06/27	12
MSG-10	Signal Generator	Keysight Technologies Inc	N5181A	MY47421098	2022/11/04	12
MDA-07	Dipole Antenna	Schmid & Partner Engineering AG	D2450V2	713	2022/09/12	12
MRENT-S01	Vector Reflectometer	Copper Mountain Technologies	PLANAR R140	110614	2022/05/12	12
MRENT-S17	Dielectric assessment kit	Schmid & Partner Engineering AG	DAKS-3.5	1058	2022/05/16	12
MOS-37	Digital thermometer	LKM electronic	DTM3000	-	2022/07/03	12
MWTR-01	Water, distilled	KISHIDA CHEMICAL Co.,Ltd.	020-85566	K70244M	-	-
COTS- MSAR-04	Dielectric assessment software	Schmid&Partner Engineering AG	DAK	-	-	-

The expiration date of the calibration is the end of the expired month. All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

SAR room is checked before every testing and ambient noise is <0.012 W/kg

Test Report No. 14757979H-C-R1 Page 18 of 63

## **APPENDIX 1: System Check**

#### System check result Body 2450 MHz

SPC\_20230406\_Room2 Temp\_22.5 deg.C.\_Liquid Temp\_22.0 deg.C

**Communication System info** 

Communication System: UID 0, \_CW (0)

Communication System Band: D2450 (2450.0 MHz)Duty Cycle: 1:1 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.64, 7.64, 7.64) @ 2450 MHz

Medium parameters used: f = 2450 MHz;  $\sigma = 1.734 \text{ S/m}$ ;  $\epsilon_r = 37.274$ ;  $\rho = 1000 \text{ kg/m}^3$  Sensor-Surface: 1.4mm (Mechanical Surface Detection), Sensor-Surface: 0mm (Fix Surface)

DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

Phantom info:

Phantom: ELI v5.0 TP1207 (30deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB Serial: TP:1207

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

Configuration/250mW/Area Scan (81x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

Configuration/250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 116.4 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.19 W/kg

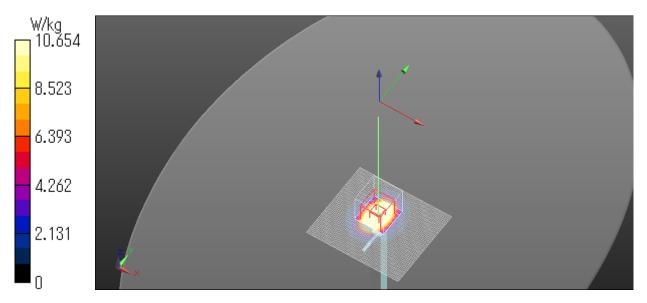
Smallest distance from peaks to all points 3 dB below = 9.1 mm

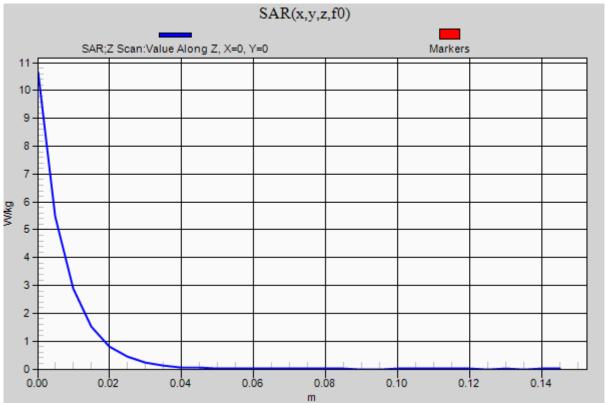
Ratio of SAR at M2 to SAR at M1 = 49.2% Maximum value of SAR (measured) = 21.7 W/kg

Configuration/250mW/Z Scan (1x1x31): Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 10.7 W/kg

Note: Liquid temp. is kept within the 2 degree.C. during the test.





Test Report No. 14757979H-C-R1 Page 20 of 63

#### **APPENDIX 2: SAR Measurement data**

#### **Evaluation procedure**

#### The evaluation was performed with the following procedure:

- **Step 1:** Measurement of the E-field at a fixed location above the ear point or central position of flat phantom was used as a reference value for assessing the power drop.
- **Step 2:** The SAR distribution at the exposed side of head or body position was measured at a distance of each device from the inner surface of the shell. The area covered the entire dimension of the antenna of EUT and the horizontal grid spacing was 15 mm x 15 mm, 12 mm x 12 mm or 10 mm x 10 mm. Based on these data, the area of the maximum absorption was determined by spline interpolation.
- **Step 3:** Around this point found in the Step 2 (area scan), a volume of 30 mm x 30 mm x 30 mm or more was assessed by measuring 7 x 7 x 7 points at least for below 3 GHz, a volume of 28 mm x 28 mm x 34 mm or more was assessed by measuring 8 x 8 x 8(ratio step method (\*1)) points at least for 3 GHz to 5 GHz and a volume of 28 mm x 28 mm x 24 mm or more was assessed by measuring 8 x 8 x 8(ratio step method) points at least for 5 GHz to 6 GHz.

And for any secondary peaks found in the Step2 which are within 2 dB of maximum peak and not with this Step3 (Zoom scan) is repeated. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

(1). The data at the surface were extrapolated, since the center of the dipoles is 1 mm(EX3DV4) away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm [4]. A polynomial of the fourth order was calculated through the points in z-axes.

This polynomial was then used to evaluate the points between the surface and the probe tip.

- (2). The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one-dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
- (3). All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

#### \*1. Ratio step method parameters used;

The first measurement point: 1.4 mm from the phantom surface, the initial grid separation: 1.4 mm, subsequent graded grid ratio: 1.4

These parameters comply with the requirement of the KDB 865664 D01.

Step 4: Re-measurement of the E-field at the same location as in Step 1.

Confirmation after SAR testing

It was checked that the power drift [W] is within +/-5 %. The verification of power drift during the SAR test is that DASY5 system calculates the power drift by measuring the e-filed at the same location at beginning and the end of the scan measurement for each test position.

```
DASY5 system calculation Power drift value[dB] =20log(Ea)/(Eb)
```

Before SAR testing : Eb [V/m] After SAR testing : Ea [V/m]

Limit of power drift[W] =  $\pm$ /- 5 %

X[dB] = 10log[P] = 10log(1.05/1) = 10log(1.05) -10log(1) = 0.212 dB

from E-filed relations with power.

p=E^2/η

Therefore, The correlation of power and the E-filed

 $X dB = 10log(P) = 10log(E)^2 = 20log(E)$ 

Therefore,

The calculated power drift of DASY5 System must be the less than +/- 0.212 dB.

Test Report No. 14757979H-C-R1 Page 21 of 63

#### Measurement data

# Plot No. BT R 20230406\_Room2 Temp\_22.5 deg.C.\_Liquid Temp\_22.0 deg.C

#### **Communication System info**

Communication System: UID 0, Buletooth (0) Communication System Band: Duty Cycle: 1:1

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

#### Probe info:

Probe: EX3DV4 - SN3917 / Calibrated: 2022/05/17

ConvF(7.64, 7.64, 7.64) @ 2480 MHz

Medium parameters used: f = 2480 MHz;  $\sigma = 1.76 \text{ S/m}$ ;  $\epsilon_r = 37.239$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-

Surface: 1.4mm (Mechanical Surface Detection)

#### DAE info:

Electronics: DAE4 Sn509 / Calibrated: 2022/07/13

#### Phantom info:

Phantom: ELI v5.0 TP1207 (30deg probe tilt)/Phantom section: Flat Section

Type: QDOVA001BB Serial: TP:1207

**Software info** DASY52 52.10.4(1535) SEMCAD X 14.6.14(7501)

Rear DH5 2480 MHz/Area Scan (81x121x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.111 W/kg

Rear DH5 2480 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.707 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.153 W/kg

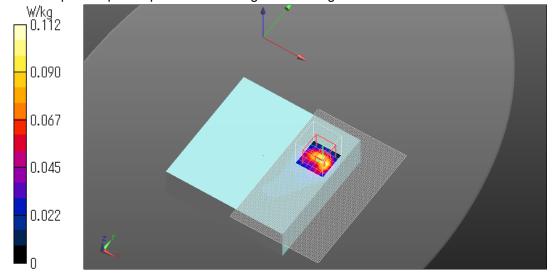
SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.023 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

Ratio of SAR at M2 to SAR at M1 = 34.6%

Maximum value of SAR (measured) = 0.112 W/kg

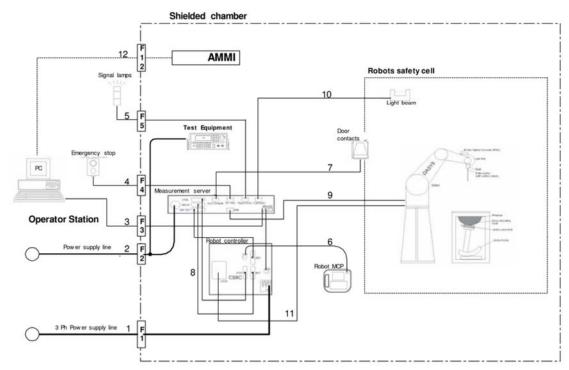
Note: Liquid temp. is kept within the 2 degree.C. during the test.



Test Report No. 14757979H-C-R1 Page 22 of 63

## **APPENDIX 3: System specifications**

## Configuration and peripherals



The DASY5 system for performing compliance tests consist of the following items: Our system is DASY6; however, it behaves as DASY5.

- a) A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- b) An isotropic field probe optimized and calibrated for the targeted measurement.
- c) A data acquisition electronic (DAE), which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- d) The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- e) The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- f) The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- g) A computer running Windows 10 or 7 and the DASY5/6 software.
- h) Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.
- i) The phantom, the device holder and other accessories according to the targeted measurement.

Test Report No. 14757979H-C-R1 Page 23 of 63

#### **Specifications**

a) Robot TX60L

Number of Axes 6 **Nominal Load** 2 kg Maximum Load 5 kg Reach 920 mm Repeatability +/-0.03 mm **Control Unit** CS8c **Programming Language:** VAL3 Weight 52.2 kg

Manufacture : Stäubli Robotics

b) E-Field Probe

**Application** 

Manufacture

Model : EX3DV4

**Construction** : Symmetrical design with triangular core

Built-in shielding against static charges

PEEK enclosure material

(resistant to organic solvents, e.g., glycol ether)

Frequency: 10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)

**Directivity**: +/-0.3 dB in HSL (rotation around probe axis)

+/-0.5 dB in tissue material (rotation normal probe axis)

**Dynamic Range** : 10 uW/g to > 100 mW/g;Linearity

+/-0.2 dB(noise: typically < 1 uW/g)

**Dimensions** : Overall length: 337 mm (Tip: 20 mm)

Tip diameter: 2.5 mm (Body: 12 mm)

Typical distance from probe tip to dipole centers: 1 mm

Highprecision dosimetric measurement in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance

testing for frequencies up to 6 GHz with precision of better 30 %.

Schmid & Partner Engineering AG



EX3DV4 E-field Probe

Test Report No. 14757979H-C-R1 Page 24 of 63

c) Data Acquisition Electronic (DAE4)

Features : Signal amplifier, multiplexer, A/D converter and control logic

Serial optical link for communication with DASY5 embedded system (fully remote

controlled)

Two step probe touch detector for mechanical surface detection and emergency

robot stop

Measurement Range : -100 to +300 mV (16 bit resolution and two range settings: 4 mV, 400 mV)

Input Offset voltage :  $< 5 \mu V$  (with auto zero)

**Battery Power** : > 10 h of operation (with two 9.6 V NiMH accus)

**Dimension** :  $60 \times 60 \times 68 \text{ mm}$ 

Manufacture : Schmid & Partner Engineering AG

d) Electro-Optic Converter (EOC)

Version : EOC 61

**Description**: for TX60 robot arm, including proximity sensor

Manufacture : Schmid & Partner Engineering AG

e) DASY5 Measurement server

Features : Intel ULV Celeron 400 MHz

128 MB chip disk and 128 MB RAM

16 Bit A/D converter for surface detection system

Vacuum Fluorescent Display

Robot Interface

Serial link to DAE (with watchdog supervision)

Door contact port (Possibility to connect a light curtain) Emergency stop port (to connect the remote control)

Signal lamps port Light beam port

Three Ethernet connection ports

Two USB 2.0 Ports Two serial links

Expansion port for future applications

**Dimensions (L x W x H)** : 440 x 241 x 89 mm

Manufacture : Schmid & Partner Engineering AG

f) Light Beam Switches

Version : LB5

Dimensions (L x H):110 x 80 mmThickness:12 mmBeam-length:80 mm

Manufacture : Schmid & Partner Engineering AG

g) Software

Item : Dosimetric Assessment System DASY5

Type No. : SD 000 401A, SD 000 402A
Software version No. : DASY52, Version 52.6 (1)
Manufacture / Origin : Schmid & Partner Engineering AG

h) Robot Control Unit

Weight : 70 Kg
AC Input Voltage : selectable
Manufacturer : Stäubli Robotics

Test Report No. 14757979H-C-R1 Page 25 of 63

## i) Phantom and Device Holder

**Phantom** 

Type : SAM Twin Phantom V4.0

**Description**: The shell corresponds to the specifications of the Specific Anthropomorphic

Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points

with the robot.

Material : Vinylester, glass fiber reinforced (VE-GF)

Shell Material : Fiberglass
Thickness : 2.0 +/- 0.2 mm

Dimensions : Length: 1000 mm Width: 500 mm Height: adjustable feet

Volume : Approx. 25 liters

Manufacture : Schmid & Partner Engineering AG

Type : 2 mm Flat phantom ELI4.0 or 5

**Description**: Phantom for compliance testing of handheld and body-mounted wireless

devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI4 has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is supported by software version DASY4.5 and higher and is

compatible with all SPEAG dosimetric probes and dipoles.

Material : Vinylester, glass fiber reinforced (VE-GF)

**Shell Thickness** :  $2.0 \pm 0.2 \text{ mm (sagging: } < 1 \%)$ 

Filling Volume : Approx. 30 liters

**Dimensions**: Major ellipse axis: 600 mm Minor axis: 400 mm

Manufacture : Schmid & Partner Engineering AG

#### **Device Holder**

In combination with the Twin SAM Phantom V4.0/V4.0c or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).

Material : POM

#### Laptio Extensions kit

Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.). It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin-SAM, ELI4 Phantoms.

Material : POM, Acrylic glass, Foam

#### <u>Urethane</u>

For this measurement, the urethane foam was used as device holder.

Test Report No. 14757979H-C-R1 Page 26 of 63

# j) Simulated Tissues (Liquid)

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

#### **Product identifier**

Todact identified		
Trade name Broad Band Tissue Simulation Liquid		
	HBBL600-10000V6, MBBL600-6000V6, HU16B, MU16B	
Manufacturer/Supplier	Schmid & Partner Engineering AG	

Test Report No. 14757979H-C-R1 Page 27 of 63

## System Check Dipole SAR Calibration Certificate -Dipole 2450 MHz (D2450V2 S/N: 713)

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

**UL Japan Head Office (RCC)** 

Certificate No: D2450V2-713\_Sep22

#### CALIBRATION CERTIFICATE D2450V2 - SN:713 Object QA CAL-05.v11 Calibration procedure(s) Calibration Procedure for SAR Validation Sources between 0.7-3 GHz Calibration date: September 12, 2022 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) Primary Standards ID# Cal Date (Certificate No.) Scheduled Calibration Power meter NRP SN: 104778 04-Apr-22 (No. 217-03525/03524) Apr-23 Power sensor NRP-Z91 SN: 103244 04-Apr-22 (No. 217-03524) Apr-23 Power sensor NRP-Z91 SN: 103245 04-Apr-22 (No. 217-03525) Apr-23 SN: BH9394 (20k) Reference 20 dB Attenuator 04-Apr-22 (No. 217-03527) Apr-23 Type-N mismatch combination SN: 310982 / 06327 04-Apr-22 (No. 217-03528) Apr-23 Reference Probe EX3DV4 SN: 7349 31-Dec-21 (No. EX3-7349\_Dec21) Dec-22 DAE4 SN: 601 31-Aug-22 (No. DAE4-601\_Aug22) Aug-23 ID# Secondary Standards Check Date (in house) Scheduled Check SN: GB39512475 Power meter E4419B 30-Oct-14 (in house check Oct-20) In house check: Oct-22 SN: US37292783 Power sensor HP 8481A 07-Oct-15 (in house check Oct-20) In house check: Oct-22 Power sensor HP 8481A SN: MY41093315 07-Oct-15 (in house check Oct-20) In house check: Oct-22 RF generator R&S SMT-06 SN: 100972 15-Jun-15 (in house check Oct-20) In house check: Oct-22 SN: US41080477 Network Analyzer Agilent E8358A 31-Mar-14 (in house check Oct-20) In house check: Oct-22 Name Function Calibrated by: Michael Weber Laboratory Technician Approved by: Sven Kühn Technical Manager Issued: September 13, 2022 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D2450V2-713\_Sep22

Page 1 of 8

Test Report No. 14757979H-C-R1 Page 28 of 63

#### Calibration Laboratory of Schmid & Partner **Engineering AG**

Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage C 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 N/A

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

Calibration is Performed According to the Following Standards:

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

#### **Additional Documentation:**

c) DASY System Handbook

#### Methods Applied and Interpretation of Parameters:

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

<ul> <li>SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.</li> </ul>
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.
Certificate No: D2450V2-713_Sep22 Page 2 of 8

Test Report No. 14757979H-C-R1 Page 29 of 63

#### **Measurement Conditions**

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

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

# **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.8 ± 6 %	1.84 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	250 mW input power	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.3 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.19 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.5 W/kg ± 16.5 % (k=2)

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.0 ± 6 %	2.03 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

# SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.0 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.15 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-713\_Sep22

Page 3 of 8

Test Report No. 14757979H-C-R1 Page 30 of 63

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

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.0 Ω + 1.9 jΩ
Return Loss	- 29.2 dB

#### **Antenna Parameters with Body TSL**

Impedance, trar	nsformed to feed point	49.7 Ω + 4.7 jΩ
Return Loss		- 26.5 dB

#### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.160 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: D2450V2-713\_Sep22

Page 4 of 8

Test Report No. 14757979H-C-R1 Page 31 of 63

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

Date: 12.09.2022

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 713

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

Medium parameters used: f = 2450 MHz;  $\sigma = 1.84$  S/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 31.08.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

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

Reference Value = 114.4 V/m; Power Drift = 0.07 dB

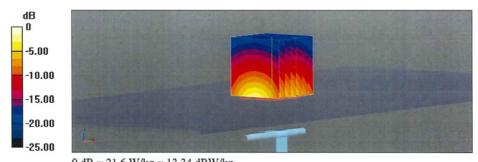
Peak SAR (extrapolated) = 26.0 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.19 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 21.6 W/kg

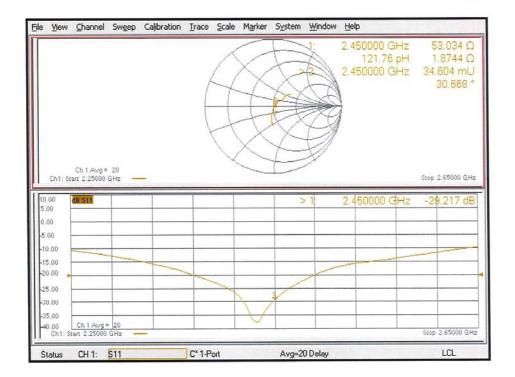


0 dB = 21.6 W/kg = 13.34 dBW/kg

Certificate No: D2450V2-713\_Sep22

Page 5 of 8

#### Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-713\_Sep22

Page 6 of 8

Test Report No. 14757979H-C-R1 Page 33 of 63

#### **DASY5 Validation Report for Body TSL**

Date: 12.09.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 713

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

Medium parameters used: f = 2450 MHz;  $\sigma = 2.03 \text{ S/m}$ ;  $\varepsilon_r = 51$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

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

#### DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.12, 8.12, 8.12) @ 2450 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 31.08.2022
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

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

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

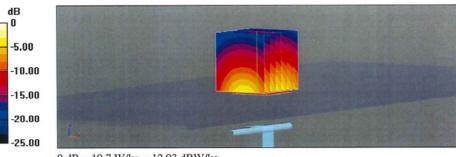
Peak SAR (extrapolated) = 24.2 W/kg

#### SAR(1 g) = 13.0 W/kg; SAR(10 g) = 6.15 W/kg

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

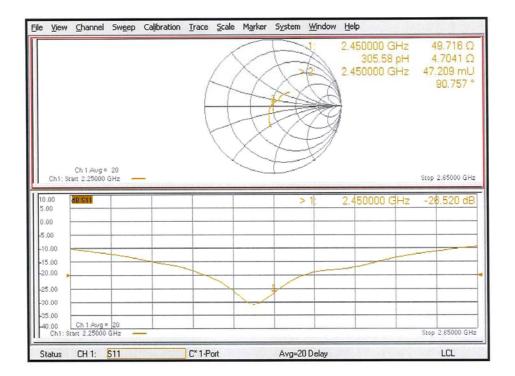
Ratio of SAR at M2 to SAR at M1 = 55.3%

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



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

# Impedance Measurement Plot for Body TSL



Certificate No: D2450V2-713\_Sep22

Page 8 of 8

Test Report No. 14757979H-C-R1 Page 35 of 63

# Dosimetric E-Field Probe Calibration Certificate (EX3DV4, S/N: 3917)

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

UL Japan Head Office (RCC)

Calibration Equipment used (M&TE critical for calibration)

Certificate No: EX3-3917\_May22

C

# CALIBRATION CERTIFICATE Object EX3DV4 - SN:3917 Calibration procedure(s) QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes Calibration date: May 17, 2022 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	13-Oct-21 (No. DAE4-660 Oct21)	Oct-22
Reference Probe ES3DV2	SN: 3013	27-Dec-21 (No. ES3-3013 Dec21)	Dec-22
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22

Calibrated by: Leif Klysne	Name	Function	Signature
	Leif Klysner	Laboratory Technician	Sef Iller
Approved by:	Sven Kühn	Technical Manager	Sin
		all without written approval of the laboratory	Issued: May 18, 2022

Certificate No: EX3-3917\_May22

Page 1 of 25

Test Report No. 14757979H-C-R1 Page 36 of 63

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





S Schweizerischer Kalibrierdienst
C 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 NORMx,y,z ConvF

DCP

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

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

Polarization  $\phi$ 

φ rotation around probe axis

Polarization 9 9 rotation

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

# Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 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 MHz.
- Spherical Isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX3-3917 May22

Page 2 of 25

Test Report No. 14757979H-C-R1 Page 37 of 63

EX3DV4 - SN:3917

May 17, 2022

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3917

**Basic Calibration Parameters** 

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.52	0.41	0.44	± 10.1 %
DCP (mV) <sup>B</sup>	100.6	104.2	101.5	

Calibration Populto for Madulation

UID	tion Results for Modulation Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup>
0	cw	X	0.00	0.00	1.00	0.00	169.7	± 3.5 %	(k=2) ± 4.7 %
		Y	0.00	0.00	1.00	0.00	148.2	2 3.5 %	± 4.7 70
		Z	0.00	0.00	1.00	1	163.3	†	
10352-	Pulse Waveform (200Hz, 10%)	X	20.00	92.64	22.14	10.00	60.0	± 3.3 %	± 9.6 %
AAA		Y	20.00	91.00	21.25	1	60.0	20.0 /	2 0.0 /
		Z	20.00	92.42	22.13	1	60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	20.00	92.94	21.35	6.99	80.0	± 1.6 %	± 9.6 %
AAA		Y	20.00	91.17	20.04		80.0	- 1.0 /0	- 0.0 A
		Z	20.00	92.97	21.49		80.0	i	
10354-	Pulse Waveform (200Hz, 40%)	X	20.00	96.40	21.80	3.98	95.0	± 1.1 %	± 9.6 %
AAA		Y	20.00	92.55	19.18		95.0	,•	0.0 /
		Z	20.00	96.77	22.14	1	95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	20.00	102.46	23.40	2.22	120.0	± 1.3 %	± 9.6 %
AAA		Υ	20.00	94.55	18.74		120.0		
		Z	20.00	103.72	24.19		120.0		
10387-	QPSK Waveform, 1 MHz	X	1.78	67.27	15.77	1.00	150.0	± 2.5 %	± 9.6 %
AAA		Υ	1.65	66.32	15.05		150.0		
		Z	1.80	67.23	15.83		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.39	69.27	16.47	0.00	150.0	± 0.8 %	± 9.6 %
AAA		Y	2.22	68.33	15.82		150.0		
10396-		Z	2.41	69.45	16.56		150.0		
	64-QAM Waveform, 100 kHz	X	3.06	71.05	19.20	3.01	150.0	± 0.7 %	± 9.6 %
AAA		Y	3.17	71.88	19.31		150.0		
40000		Z	3.49	73.63	20.27		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.61	67.68	16.14	0.00	150.0	± 1.5 %	± 9.6 %
AAA		Υ	3.49	67.27	15.80		150.0		
10414-	WILLIAM CODE OF CASE (CASE)	Z	3.61	67.71	16.14		150.0		
10414- AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.95	65.99	15.77	0.00	150.0	± 3.3 %	± 9.6 %
AAA		Y	4.85	65.74	15.54		150.0		
	1-4-2	Z	4.94	65.94	15.71		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%.

Certificate No: EX3-3917\_May22

Page 3 of 25

A The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5, 6 and 7).
 B Numerical linearization parameter: uncertainty not required.
 E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Test Report No. 14757979H-C-R1 Page 38 of 63

EX3DV4- SN:3917 May 17, 2022

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3917

#### **Sensor Model Parameters**

	C1 fF	C2 fF	α V⁻¹	T1 ms.V <sup>-2</sup>	T2 ms.V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
X	46.8	347.07	35.23	24.63	0.30	5.10	0.75	0.36	1.01
Υ	46.6	342.97	34.72	14.95	0.73	5.05	1.21	0.29	1.01
Z	48.2	352.29	34.39	26.15	0.26	5.10	1.67	0.21	1.01

#### Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-111.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

Certificate No: EX3-3917\_May22

Page 4 of 25

Test Report No. 14757979H-C-R1 Page 39 of 63

EX3DV4-SN:3917

May 17, 2022

#### DASY/EASY - Parameters of Probe: EX3DV4 - SN:3917

#### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
300	45.3	0.87	12.23	12.23	12.23	0.09	1.00	± 13.3 %
750	41.9	0.89	10.11	10.11	10.11	0.55	0.80	± 12.0 %
835	41.5	0.90	9.71	9.71	9.71	0.54	0.80	± 12.0 %
1450	40.5	1.20	8.68	8.68	8.68	0.34	0.80	± 12.0 %
1640	40.2	1.31	8.60	8.60	8.60	0.26	0.86	± 12.0 %
1750	40.1	1.37	8.40	8.40	8.40	0.23	0.86	± 12.0 %
1900	40.0	1.40	8.18	8.18	8.18	0.30	0.86	± 12.0 %
2300	39.5	1.67	7.74	7.74	7.74	0.24	0.90	± 12.0 %
2450	39.2	1.80	7.64	7.64	7.64	0.31	0.90	± 12.0 %
2600	39.0	1.96	7.47	7.47	7.47	0.19	0.90	± 12.0 %
3500	37.9	2.91	6.80	6.80	6.80	0.30	1.30	± 13.1 %
3700	37.7	3.12	6.60	6.60	6.60	0.30	1.30	± 13.1 %
3900	37.5	3.32	6.55	6.55	6.55	0.40	1.60	± 13.1 %
4600	36.7	4.04	6.27	6.27	6.27	0.40	1.70	± 13.1 %
5850	35.2	5.32	4.56	4.56	4.56	0.40	1.80	± 13.1 %

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

\*At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to 19% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. 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 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.

Certificate	No.	FX3-3917	May22

Test Report No. 14757979H-C-R1 Page 40 of 63

EX3DV4-- SN:3917

May 17, 2022

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3917

#### Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
300	58.2	0.92	11.51	11.51	11.51	0.02	1.35	± 13.3 %
750	55.5	0.96	9.76	9.76	9.76	0.47	0.83	± 12.0 %
835	55.2	0.97	9.71	9.71	9.71	0.40	0.80	± 12.0 %
1640	53.7	1.42	8.54	8.54	8.54	0.36	0.86	± 12.0 %
1750	53.4	1.49	8.16	8.16	8.16	0.33	0.86	± 12.0 %
1900	53.3	1.52	7.97	7.97	7.97	0.33	0.86	± 12.0 %
2300	52.9	1.81	7.79	7.79	7.79	0.26	0.90	± 12.0 %
2450	52.7	1.95	7.85	7.85	7.85	0.17	0.90	± 12.0 %
2600	52.5	2.16	7.39	7.39	7.39	0.26	0.90	± 12.0 %
3500	51.3	3.31	6.42	6.42	6.42	0.40	1.35	± 13.1 %
3700	51.0	3.55	6.35	6.35	6.35	0.40	1.35	± 13.1 %
3900	50.8	3.78	6.15	6.15	6.15	0.40	1.70	± 13.1 %
4600	49.8	4.60	5.78	5.78	5.78	0.40	1.80	± 13.1 %
5850	48.1	6.06	4.05	4.05	4.05	0.50	1.90	± 13.1 %

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

F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. 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 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.

Certificate No: EX3-3917\_May22

Page 6 of 25

Test Report No. 14757979H-C-R1 Page 41 of 63

EX3DV4- SN:3917 May 17, 2022

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3917

#### Calibration Parameter Determined in Head Tissue Simulating Media

			-					
f (MHz) <sup>c</sup>	Relative Permittívity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
6500	34.5	6.07	5.35	5.35	5.35	0.20	2.50	± 18.6 %

Certificate No: EX3-3917\_May22 Page 7 of 25

<sup>&</sup>lt;sup>c</sup> Frequency validity at 6.5 GHz is -600/+700 MHz, and  $\pm$  700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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

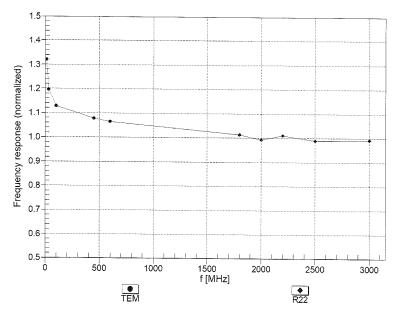
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz; below  $\pm$  2% for frequencies between 3-6 GHz; and below  $\pm$  4% for frequencies between 6-10 GHz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

EX3DV4-- SN:3917

May 17, 2022

# Frequency Response of E-Field

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



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

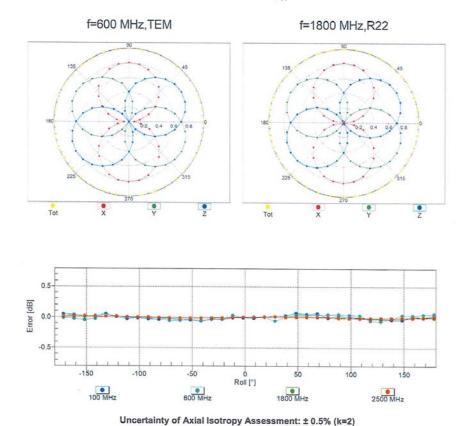
Certificate No: EX3-3917\_May22

Page 8 of 25

EX3DV4- SN:3917

May 17, 2022

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



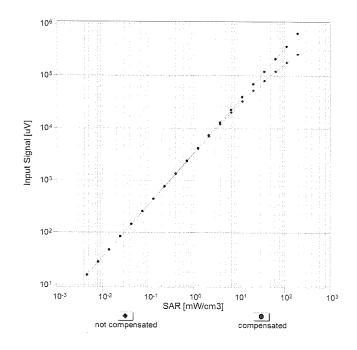
Certificate No: EX3-3917\_May22

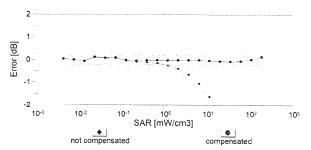
Page 9 of 25

EX3DV4- SN:3917

May 17, 2022

# Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)



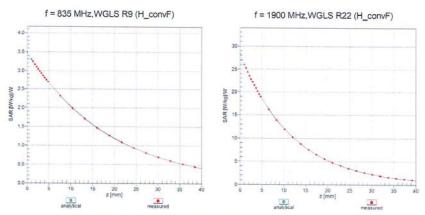


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

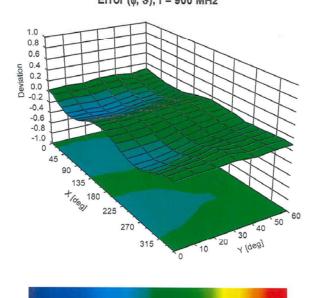
Certificate No: EX3-3917\_May22

Page 10 of 25

# **Conversion Factor Assessment**



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



-1.0 -0.8 -0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8 1.0 Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Certificate No: EX3-3917\_May22

Page 11 of 25

EX3DV4- SN:3917

May 17, 2022

D	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>6</sup> (k=2
0	-	CW	CW	0.00	± 4.7
0010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
0011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 9
0012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 9
0013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 °
0021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6
0023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6
0024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6
0025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6
0026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6
0027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6
0028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6
0029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6
0030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6
0031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6
0032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6
0033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6
0034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6
0035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6
0036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6
0037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6
0038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6
0039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6
0042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6
0044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6
0048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6
0049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6
0056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6
0058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6
0059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6
0060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6
0061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6
0062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6
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	± 9.6
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		
0068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.12	± 9.6
0069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.24	± 9.6
0071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	10.56	± 9.6
0072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.83	± 9.6
0073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)		9.62	± 9.6
0074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6
0075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.30	± 9.6
	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6
0076 I	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6
0076	UMD	CDMA2000 (1xRTT, RC3)	WLAN	11.00	± 9.6
0077	CAP	ODIVINEUUU (TARTT, ROS)	CDMA2000	3.97	± 9.6
0077 0081	CAB	IS-54 / IS 126 EDD (TDMA/EDM DI/4 DODOK E-II			
0077 0081 0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	
0077 0081 0082 0090	CAB DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6
0077 0081 0082	CAB				± 9.6 ° ± 9.6 ° ± 9.6 °

10100	CAE	LTE EDD (CC EDMA 400W DD COAM) ODOW	T. *****		
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD		± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.21	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	*******	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)		6.52	
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD LTE-FDD	5.73	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)		6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	6.50	± 9.6 %
10101	UAL	LETET DO (OOT DIVIN, TIND, TO WITE, QEON)	LTE-FDD	5.73	± 9.6 %

EX3DV4- SN:3917

May 17, 2022

10182   CAB		,	T			
10194   CAE	10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10165   CAE   LTE-FDG (SC-FDMA, 1 RB, 3 MHz, G4-QAM)   LTE-FDD   6.51   ±9.6 %   10187   CAF   LTE-FDG (SC-FDMA, 1 RB, 1 MHz, G4-QAM)   LTE-FDD   5.73   ±9.6 %   10187   CAF   LTE-FDG (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   5.73   ±9.6 %   10188   CAF   LTE-FDG (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   6.50   ±9.6 %   10193   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   6.50   ±9.6 %   10193   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   6.50   ±9.6 %   10193   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   WLAN   8.12   ±9.6 %   10193   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   WLAN   8.12   ±9.6 %   10195   CAD   LTE-FDD (SC-FDMA, 1 RB, 5 Mps, BPSK)   WLAN   8.12   ±9.6 %   10195   CAD   LTE-FDD (SC-FDMA, 1 RB, 5 Mps, 16-QAM)   WLAN   8.12   ±9.6 %   10195   CAD   LTE-FDD (SC-FDMA, 1 RB, 5 Mps, 16-QAM)   WLAN   8.12   ±9.6 %   10197   CAD   LTE-FDD (SC-FDMA, 1 RB, 5 Mps, 16-QAM)   WLAN   8.13   ±9.6 %   10197   CAD   LTE-FDD (SC-FDMA, 1 RB, 5 Mps, 16-QAM)   WLAN   8.13   ±9.6 %   10198   CAD   LTE-FDD (SC-FDMA, 1 RB, 16-QAM)   WLAN   8.13   ±9.6 %   10198   CAD   LTE-FDD (SC-FDMA, 1 RB, 5 Mps, 16-QAM)   WLAN   8.27   ±9.6 %   10199   CAD   LTE-FDD (SC-FDMA, 1 RB, 16-QAM)   WLAN   8.27   ±9.6 %   10220   CAD   LTE-FDD (SC-FDMA, 1 RB, 16-QAM)   WLAN   8.27   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 16-QAM)   WLAN   8.27   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 16-QAM)   WLAN   8.27   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 16-QAM)   WLAN   8.28   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   WLAN   8.08   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   UTE-FDD   9.49   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   9.49   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   9.49   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   9.49   ±9.6 %   10222   CAD   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, 16-QAM)   LTE-FDD   9.49   ±9.6 %   102				LTE-FDD	6.50	± 9.6 %
10186   AAE   LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-OAM)   LTE-FDD   6.50   ± 9.6 %   10187   CAF   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, OPSK)   LTE-FDD   6.50   ± 9.6 %   10188   CAF   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, DAM)   LTE-FDD   6.50   ± 9.6 %   10198   AAF   LTE-FDD (SC-FDMA, 1 RB, 1-4 MHz, D4-OAM)   LTE-FDD   6.50   ± 9.6 %   10198   CAD   EEE 802.11n (HT Greenfield, 5.5 Mbps, BFSK)   WLAN   8.09   ± 9.6 %   10194   CAD   EEE 802.11n (HT Greenfield, 5.5 Mbps, BFSK)   WLAN   8.01   ± 9.6 %   10194   CAD   EEE 802.11n (HT Greenfield, 5.5 Mbps, BFSK)   WLAN   8.21   ± 9.6 %   10196   CAD   EEE 802.11n (HT Greenfield, 5.5 Mbps, BFSK)   WLAN   8.21   ± 9.6 %   10196   CAD   EEE 802.11n (HT Mixed, 6.5 Mbps, B4-OAM)   WLAN   8.21   ± 9.6 %   10197   CAD   EEE 802.11n (HT Mixed, 6.5 Mbps, B4-OAM)   WLAN   8.21   ± 9.6 %   10198   CAD   EEE 802.11n (HT Mixed, 5.6 Mbps, BFSK)   WLAN   8.21   ± 9.6 %   10198   CAD   EEE 802.11n (HT Mixed, 7.8 Mbps, BFSK)   WLAN   8.27   ± 9.6 %   10220   CAD   EEE 802.11n (HT Mixed, 7.2 Mbps, BFSK)   WLAN   8.03   ± 9.6 %   10221   CAD   EEE 802.11n (HT Mixed, 7.2 Mbps, BFSK)   WLAN   8.03   ± 9.6 %   10221   CAD   EEE 802.11n (HT Mixed, 7.2 Mbps, BFSK)   WLAN   8.03   ± 9.6 %   10222   CAD   EEE 802.11n (HT Mixed, 7.2 Mbps, BFSK)   WLAN   8.04   ± 9.6 %   10222   CAD   EEE 802.11n (HT Mixed, 7.2 Mbps, BFSK)   WLAN   8.06   ± 9.6 %   10223   CAD   EEE 802.11n (HT Mixed, 9.0 Mbps, 16-OAM)   WLAN   8.27   ± 9.6 %   10222   CAD   EEE 802.11n (HT Mixed, 9.0 Mbps, 16-OAM)   WLAN   8.04   ± 9.6 %   10222   CAB   EEE 802.11n (HT Mixed, 9.0 Mbps, 16-OAM)   WLAN   8.04   ± 9.6 %   10222   CAB   EEE 802.11n (HT Mixed, 9.0 Mbps, 16-OAM)   WLAN   8.04   ± 9.6 %   10222   CAB   EEE 802.11n (HT Mixed, 9.0 Mbps, 16-OAM)   WLAN   8.04   ± 9.6 %   10222   CAB   EEE 802.11n (HT Mixed, 9.0 Mbps, 16-OAM)   WLAN   8.06   ± 9.6 %   10222   CAB   EEE 802.11n (HT Mixed, 9.0 Mbps, 16-OAM)   WLAN   8.08   ± 9.6 %   10222   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 Mtz, G-OAM)   UTE-TDD   9.29   ± 9.6 %   10222   CAB				LTE-FDD	5.73	± 9.6 %
10187   CAF				LTE-FDD	6.51	± 9.6 %
10187 CAF   LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)		<del></del>		LTE-FDD	6.50	± 9.6 %
10188   CAF   ITE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 6-OAM)   ITE-FDD   6.52   ± 9.6 %   10193   CAD   IEEE 802.11n (HT Greenfield, 6.5 Mbps, 8PSK)   WLAN   8.09   ± 9.6 %   10195   CAD   IEEE 802.11n (HT Greenfield, 6.5 Mbps, 16-QAM)   WLAN   8.12   ± 9.6 %   10195   CAD   IEEE 802.11n (HT Greenfield, 6.5 Mbps, 16-QAM)   WLAN   8.12   ± 9.6 %   10196   CAD   IEEE 802.11n (HT Greenfield, 6.5 Mbps, 8-OAM)   WLAN   8.21   ± 9.6 %   10196   CAD   IEEE 802.11n (HT Mixed, 6.5 Mbps, 8-OAM)   WLAN   8.11   ± 9.6 %   10197   CAD   IEEE 802.11n (HT Mixed, 6.5 Mbps, 8-OAM)   WLAN   8.11   ± 9.6 %   10198   CAD   IEEE 802.11n (HT Mixed, 5.6 Mbps, 8-OAM)   WLAN   8.13   ± 9.6 %   10198   CAD   IEEE 802.11n (HT Mixed, 5.6 Mbps, 8-OAM)   WLAN   8.13   ± 9.6 %   10292   CAD   IEEE 802.11n (HT Mixed, 5.7 Mbps, 8-PSK)   WLAN   8.27   ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 5.7 Mbps, 8-PSK)   WLAN   8.03   ± 9.6 %   10221   CAD   IEEE 802.11n (HT Mixed, 5.7 Mbps, 8-PSK)   WLAN   8.04   ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.13   ± 9.6 %   10223   CAD   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.06   ± 9.6 %   10223   CAD   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.06   ± 9.6 %   10223   CAD   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.06   ± 9.6 %   10224   CAD   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.08   ± 9.6 %   10225   CAB   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.08   ± 9.6 %   10226   CAB   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.08   ± 9.6 %   10226   CAB   IEEE 802.11n (HT Mixed, 5.0 Mbps, 8-OAM)   WLAN   8.08   ± 9.6 %   10226   CAB   IEEE 70D (ISC-FDMA, 1 RB, 1.4 MHz, 8-OAM)   IEEE 70D   9.49   ± 9.6 %   10226   CAB   IEEE 70D (ISC-FDMA, 1 RB, 1.4 MHz, 8-OAM)   IEEE 70D   9.49   ± 9.6 %   10226   CAB   IEEE 70D (ISC-FDMA, 1 RB, 1.4 MHz, 8-OAM)   IEEE 70D   9.48   ± 9.6 %   10228   CAB   IEEE 70D (ISC-FDMA, 1 RB, 3 MHz, 16-OAM)   IEEE 70D   9.48   ± 9.6 %   10228   CAB   IEEE 70D (ISC-FDMA, 1 RB, 3 MHz, 16-OAM)   I	-			LTE-FDD	5.73	
10198			LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD		
10193   CAD				LTE-FDD		
10194   CAD				WLAN		
10195   CAD   IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)   WLAN   8.21   ± 9.6 %   10197   CAD   IEEE 802.11n (HT Mixed, 65 Mbps, 16-QAM)   WLAN   8.10   ± 9.6 %   10198   CAD   IEEE 802.11n (HT Mixed, 29 Mbps, 16-QAM)   WLAN   8.13   ± 9.6 %   10219   CAD   IEEE 802.11n (HT Mixed, 72 Mbps, 64-QAM)   WLAN   8.27   ± 9.6 %   10220   CAD   IEEE 802.11n (HT Mixed, 72 Mbps, 64-QAM)   WLAN   8.27   ± 9.6 %   10220   CAD   IEEE 802.11n (HT Mixed, 72 Mbps, 64-QAM)   WLAN   8.13   ± 9.6 %   10220   CAD   IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)   WLAN   8.13   ± 9.6 %   10221   CAD   IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)   WLAN   8.13   ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 15 Mbps, BFSK)   WLAN   8.06   ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 15 Mbps, 16-QAM)   WLAN   8.48   ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 15 Mbps, 16-QAM)   WLAN   8.49   ± 9.6 %   10225   CAB   IEEE 802.11n (HT Mixed, 15 Mbps, 16-QAM)   WLAN   8.49   ± 9.6 %   10225   CAB   IEEE 802.11n (HT Mixed, 15 Mbps, 84-QAM)   WLAN   8.06   ± 9.6 %   10225   CAB   IEEE 802.11n (HT Mixed, 15 Mbps, 84-QAM)   WLAN   8.07   ± 9.6 %   10226   CAB   IEEE 802.11n (HT Mixed, 15 Mbps, 84-QAM)   U.TE-TDD   9.49   ± 9.6 %   10226   CAB   IEEE 802.11n (HT Mixed, 15 Mbps, 84-QAM)   IEEE TDD   9.49   ± 9.6 %   10226   CAB   IEEE 802.11n (HT Mixed, 15 Mbps, 84-QAM)   IEEE TDD   9.49   ± 9.6 %   10226   CAB   IEEE TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)   IEEE TDD   9.20   ± 9.6 %   10229   CAD   IEEE 802.11n (HT Mixed, 1 RB, 1.4 MHz, 64-QAM)   IEEE TDD   9.22   ± 9.6 %   10229   CAD   IEEE 802.11n (HT Mixed, 1 RB, 3 MHz, 64-QAM)   IEEE TDD   9.22   ± 9.6 %   10223   CAB   IEEE TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   IEEE TDD   9.22   ± 9.6 %   10223   CAB   IEEE TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   IEEE TDD   9.24   ± 9.6 %   10223   CAB   IEEE TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   IEEE TDD   9.24   ± 9.6 %   10223   CAB   IEEE TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   IEEE TDD   9.24   ± 9.6 %   10223   CAB   IEEE TDD (SC-FDMA, 1 RB, 5 MHz,				WLAN	8.12	
10197 CAD   IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)   WLAN   8.13				WLAN	8.21	± 9.6 %
10198   CAD   IEEE 802.11n (HT Mixed, 65 Mbps, 64-CAM)   WLAN   8.27 ± 9.6 %   10229   CAD   IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)   WLAN   8.03 ± 9.6 %   10221   CAD   IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-CAM)   WLAN   8.13 ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-CAM)   WLAN   8.27 ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-CAM)   WLAN   8.66 ± 9.6 %   10223   CAD   IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-CAM)   WLAN   8.06 ± 9.6 %   10224   CAD   IEEE 802.11n (HT Mixed, 90 Mbps, 16-CAM)   WLAN   8.08 ± 9.6 %   10224   CAD   IEEE 802.11n (HT Mixed, 150 Mbps, 64-CAM)   WLAN   8.08 ± 9.6 %   10224   CAD   IEEE 802.11n (HT Mixed, 150 Mbps, 64-CAM)   WLAN   8.08 ± 9.6 %   10225   CAB   URIS-FDD (HSPA+)   WCDMA   5.97 ± 9.6 %   10225   CAB   URIS-FDD (HSPA+)   WCDMA   5.97 ± 9.6 %   10225   CAB   URIS-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-CAM)   LTE-TDD   10.26 ± 9.6 %   10227   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-CAM)   LTE-TDD   10.26 ± 9.6 %   10229   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-CAM)   LTE-TDD   9.42 ± 9.6 %   10220   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-CAM)   LTE-TDD   10.26 ± 9.6 %   10230   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-CAM)   LTE-TDD   10.25 ± 9.6 %   10231   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-CAM)   LTE-TDD   10.25 ± 9.6 %   10232   CAG   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-CAM)   LTE-TDD   10.25 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM)   LTE-TDD   10.25 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM)   LTE-TDD   10.25 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM)   LTE-TDD   10.25 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM)   LTE-TDD   9.48 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-CAM)   LTE-TDD   9.48 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, 64-CAM)   LTE-TDD   9.21 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, 64-CAM)   LTE-TDD   9.21 ± 9.6 %   10242   CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, 64-CAM)   LTE-TDD   9.21 ± 9.6 %				WLAN	8.10	± 9.6 %
10219   CAD   IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)   WLAN   8.03 ± 9.6 %   10220   CAD   IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)   WLAN   8.13 ± 9.6 %   10221   CAD   IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)   WLAN   8.13 ± 9.6 %   10222   CAD   IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)   WLAN   8.06 ± 9.6 %   10223   CAD   IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)   WLAN   8.06 ± 9.6 %   10223   CAD   IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)   WLAN   8.08 ± 9.6 %   10225   CAB   IEEE 802.11n (HT Mixed, 15 Mbps, 64-QAM)   WLAN   8.48 ± 9.6 %   10225   CAB   UMTS-FDD (HSPA+)   WCDMA   5.97 ± 9.6 %   10225   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.49 ± 9.6 %   10226   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.49 ± 9.6 %   10226   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.22 ± 9.6 %   10228   CAB   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.22 ± 9.6 %   10229   CAB   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.22 ± 9.6 %   10230   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10231   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10232   CAG   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.21 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.21 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.21 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.21 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.21 ± 9.6 %   10240   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   9.21 ± 9.6 %   10240   CAG   LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 64-QAM)   LTE-TDD	~~~			WLAN	8.13	± 9.6 %
10220   CAD   IEEE 802.11n (HT Mixed, 43.3 Mixes, 16-QAM)   WLAN   8.13 ± 9.6 %   10221 CAD   IEEE 802.11n (HT Mixed, 72.2 Mixes, 64-QAM)   WLAN   8.27 ± 9.6 %   10222 CAD   IEEE 802.11n (HT Mixed, 15 Mixes, 18-SPSK)   WLAN   8.06 ± 9.6 %   10223 CAD   IEEE 802.11n (HT Mixed, 15 Mixes, 18-SPSK)   WLAN   8.06 ± 9.6 %   10223 CAD   IEEE 802.11n (HT Mixed, 15 Mixes, 18-SPSK)   WLAN   8.08 ± 9.6 %   10224 CAD   IEEE 802.11n (HT Mixed, 150 Mixes, 16-QAM)   WLAN   8.08 ± 9.6 %   10225 CAB   UNITS-FDD (HSPA+)   WCDMA   5.97 ± 9.6 %   10225 CAB   UNITS-FDD (HSPA+)   WCDMA   5.97 ± 9.6 %   10226 CAB   UTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.49 ± 9.6 %   10226 CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.26 ± 9.6 %   10229 CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QFSK)   LTE-TDD   9.22 ± 9.6 %   10229 CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)   LTE-TDD   9.24 ± 9.6 %   10230 CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 2 QFSK)   LTE-TDD   9.25 ± 9.6 %   10231 CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 2 QFSK)   LTE-TDD   9.19 ± 9.6 %   10232 CAG   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 2 QFSK)   LTE-TDD   9.19 ± 9.6 %   10232 CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.19 ± 9.6 %   10233 CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.19 ± 9.6 %   10233 CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10233 CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10233 CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10236 CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, QFSK)   LTE-TDD   9.21 ± 9.6 %   10236 CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, QFSK)   LTE-TDD   9.21 ± 9.6 %   10236 CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, QFSK)   LTE-TDD   9.21 ± 9.6 %   10236 CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, QFSK)   LTE-TDD   9.21 ± 9.6 %   10236 CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, QFSK)   LTE-TDD   9.21 ± 9.6 %   10236 CAG   LTE-TDD (SC-FDMA, 1 RB, 1 MHz, QFSK)   LTE-TDD   9.21 ± 9.6 %   10236 CAG   LTE-TDD (SC-FDMA, 50% RB, 1 MHz, QFSK)   LTE-TDD   9		<del></del>		WLAN	8.27	± 9.6 %
10221   CAD   IEEE 802.11n (HT Mixed, 72.2 Mpps, 64-OAM)			IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10222   CAD   IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)   WLAN   8.06 ± 9.6 %   10223   CAD   IEEE 802.11n (HT Mixed, 90 Mbps, 18-QAM)   WLAN   8.48 ± 9.6 %   10224   CAD   IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)   WLAN   8.08 ± 9.6 %   10225   CAB   UMTS-FDD (HSPA+)   WCDMA   5.97 ± 9.6 %   10226   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.49 ± 9.6 %   10227   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.49 ± 9.6 %   10227   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 0 FSK)   LTE-TDD   9.48 ± 9.6 %   10228   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 0 FSK)   LTE-TDD   9.48 ± 9.6 %   10229   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)   LTE-TDD   9.48 ± 9.6 %   10230   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 0 FSK)   LTE-TDD   9.48 ± 9.6 %   10231   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 0 FSK)   LTE-TDD   9.19 ± 9.6 %   10233   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 0 FSK)   LTE-TDD   9.19 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)   LTE-TDD   9.19 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)   LTE-TDD   9.19 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.19 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10238   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10238   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 6-QAM)   LTE-TDD   9.21 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 1-6-QAM)   LTE-TDD   9.21 ± 9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.9		<del></del>		WLAN	8.13	± 9.6 %
10223   CAD   IEEE 802.11n (HT Mixed, 150 Mbps, 16-OAM)   WLAN   8.48   ±9.6 %   10225   CAB   UMTS-FDD (HSPA+)   WCDMA   5.97   ±9.6 %   10226   CAB   UMTS-FDD (HSPA+)   WCDMA   5.97   ±9.6 %   10226   CAB   UMTS-FDD (HSPA+)   WCDMA   5.97   ±9.6 %   10226   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-OAM)   LTE-TDD   9.49   ±9.6 %   10227   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QFSK)   LTE-TDD   10.26   ±9.6 %   10228   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QFSK)   LTE-TDD   9.42   ±9.6 %   10229   CAD   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10230   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-OAM)   LTE-TDD   9.48   ±9.6 %   10230   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10231   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QFSK)   LTE-TDD   9.49   ±9.6 %   10232   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QFSK)   LTE-TDD   9.21   ±9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK)   LTE-TDD   9.21   ±9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QFSK)   LTE-TDD   9.48   ±9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK)   LTE-TDD   9.21   ±9.6 %   10240   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK)   LTE-TDD   9.28   ±9.6 %   10241   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.89   ±9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.89   ±9.6 %   10244   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QFSK)   LTE-TDD   9.90   ±9.6 %   10250   CAG   LTE				WLAN	8.27	± 9.6 %
10224   CAD   IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)   WLAN   8.08   9.6 %   10225   CAB   UMTS-FDD (HSPA+)   WCDMA   5.97   £9.6 %   10226   CAB   UTS-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.49   £9.6 %   10227   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.26   £9.6 %   10228   CAB   LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK)   LTE-TDD   9.22   £9.6 %   10229   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.22   £9.6 %   10230   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.48   £9.6 %   10231   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.19   £9.6 %   10231   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   9.19   £9.6 %   10233   CAD   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.19   £9.6 %   10233   CAD   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.48   £9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.21   £9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.26 %   10240   CAF   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.86   £9.6 %   10241   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.86 %   £9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.86 %   £9.6 %   10256   CAG   LTE-TDD (		****		WLAN	8.06	± 9.6 %
10225   CAB				WLAN	8.48	± 9.6 %
10226   CAB		<del> </del>		WLAN	8.08	± 9.6 %
10227   CAB				WCDMA	5.97	± 9.6 %
10228   CAB				LTE-TDD	9.49	± 9.6 %
10229   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)   LTE-TDD   9.48 ± 9.6 %   10231   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)   LTE-TDD   9.19 ± 9.6 %   10232   CAG   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)   LTE-TDD   9.19 ± 9.6 %   10232   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)   LTE-TDD   9.48 ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)   LTE-TDD   9.48 ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)   LTE-TDD   9.48 ± 9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)   LTE-TDD   9.21 ± 9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   9.48 ± 9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-TDD   9.21 ± 9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.21 ± 9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.48 ± 9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)   LTE-TDD   9.48 ± 9.6 %   10240   CAF   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   9.21 ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.80 ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.46 ± 9.6 %   10244   CAD   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.46 ± 9.6 %   10244   CAD   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.46 ± 9.6 %   10245   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.46 ± 9.6 %   10245   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.46 ± 9.6 %   10245   CAB   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   9.46 ± 9.6 %   10245   CAB   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   9.46 ± 9.6 %   10245   CAB   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.29 ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.90 ± 9.6 %   10255   CAG   L				LTE-TDD	10.26	± 9.6 %
10230   CAD   LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)   LTE-TDD   10,25				LTE-TDD	9.22	± 9.6 %
10231   CAD				LTE-TDD	9.48	± 9.6 %
10232   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)   LTE-TDD   9.48   ± 9.6 %   10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)   LTE-TDD   10.25   ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)   LTE-TDD   9.21   ± 9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   LTE-TDD   9.21   ± 9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   LTE-TDD   10.25   ± 9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-TDD   10.25   ± 9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-TDD   9.21   ± 9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.48   ± 9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.21   ± 9.6 %   10240   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.21   ± 9.6 %   10241   CAB   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.21   ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.82   ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.86   ± 9.6 %   10243   CAB   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   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.91   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.92   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.92   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.92   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB,				LTE-TDD	10.25	± 9.6 %
10233   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)   LTE-TDD   10.25   ± 9.6 %   10234   CAG   LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)   LTE-TDD   9.21   ± 9.6 %   10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   LTE-TDD   9.48   ± 9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   10.25   ± 9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-TDD   9.21   ± 9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.21   ± 9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.24   ± 9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)   LTE-TDD   10.25   ± 9.6 %   10240   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)   LTE-TDD   9.21   ± 9.6 %   10241   CAB   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)   LTE-TDD   9.22   ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.82   ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, GPSK)   LTE-TDD   9.86   ± 9.6 %   10243   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   LTE-TDD   9.86   ± 9.6 %   10244   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, GPSK)   LTE-TDD   9.46   ± 9.6 %   10244   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, G4-QAM)   LTE-TDD   10.06   ± 9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, G4-QAM)   LTE-TDD   10.06   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, G4-QAM)   LTE-TDD   9.30   ± 9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.91   ± 9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK)   LTE-TDD   9.92   ± 9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK)   LTE-TDD   9.92   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK)   LTE-TDD   9.92   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK)   LTE-TDD   9.29   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK)   LTE-TDD   9.20   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK)   LTE-TDD   9.20   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK)	-			LTE-TDD	9.19	± 9.6 %
10234   CAG		<del></del>		LTE-TDD	9.48	± 9.6 %
10235   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   LTE-TDD   9.48   ± 9.6 %   10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   10.25   ± 9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-TDD   9.21   ± 9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 16 MHz, QPSK)   LTE-TDD   9.48   ± 9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.48   ± 9.6 %   10240   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, G4-QAM)   LTE-TDD   10.25   ± 9.6 %   10240   CAF   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, QPSK)   LTE-TDD   9.82   ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   LTE-TDD   9.86   ± 9.6 %   10243   CAB   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, QPSK)   LTE-TDD   9.46   ± 9.6 %   10244   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ± 9.6 %   10244   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ± 9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.91   ± 9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.91   ± 9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.91   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.29   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   L				LTE-TDD	10.25	± 9.6 %
10236   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   LTE-TDD   10.25   ±9.6 %   10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-TDD   9.21   ±9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.48   ±9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   10.25   ±9.6 %   10240   CAF   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   9.21   ±9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   LTE-TDD   9.82   ±9.6 %   10243   CAB   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, QPSK)   LTE-TDD   10.06   ±9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ±9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ±9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30   ±9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.30   ±9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ±9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ±9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.29   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.29   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.90   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.91   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)				LTE-TDD	9.21	± 9.6 %
10237   CAG   LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)   LTE-TDD   9.21   ±9.6 %   10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.48   ±9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   10.25   ±9.6 %   10240   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   9.21   ±9.6 %   10241   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.22   ±9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.86   ±9.6 %   10243   CAB   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   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06   ±9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06   ±9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06   ±9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   9.30   ±9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.30   ±9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ±9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.29   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.81   ±9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.81   ±9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.24   ±9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.20   ±9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10255   CAG   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.90   ±9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 50% RB,				LTE-TDD	9.48	± 9.6 %
10238   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   LTE-TDD   9.48 ± 9.6 %   10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   10.25 ± 9.6 %   10240   CAF   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   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   LTE-TDD   9.86 ± 9.6 %   10243   CAB   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   9.46 ± 9.6 %   10244   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   LTE-TDD   10.06 ± 9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06 ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30 ± 9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.91 ± 9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.91 ± 9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.29 ± 9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.29 ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.29 ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM)   LTE-TDD   9.81 ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM)   LTE-TDD   9.24 ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM)   LTE-TDD   9.90 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20 ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, G4-QAM)   LTE-TDD   9.90 ±				LTE-TDD	10.25	± 9.6 %
10239   CAF   LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)   LTE-TDD   10.25   ±9.6 %   10240   CAF   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   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   LTE-TDD   9.86   ±9.6 %   10243   CAB   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, QPSK)   LTE-TDD   10.06   ±9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ±9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ±9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30   ±9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   LTE-TDD   9.91   ±9.6 %   10249   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, 64-QAM)   LTE-TDD   9.29   ±9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.81   ±9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.81   ±9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.81   ±9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ±9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.24   ±9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ±9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ±9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ±9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ±9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ±9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ±9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ±9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz				LTE-TDD	9.21	± 9.6 %
10240   CAF   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   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.86   ± 9.6 %   10243   CAB   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   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06   ± 9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30   ± 9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-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, 10 MHz, 64-QAM)   LTE-TDD   9.29   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81   ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.81   ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.90   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-F		<del></del>		LTE-TDD	9.48	± 9.6 %
10241   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.82   ± 9.6 %   10242   CAB   LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.86   ± 9.6 %   10243   CAB   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   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ± 9.6 %   10245   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   10.06   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30   ± 9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.91   ± 9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   10.09   ± 9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.29   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81   ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81   ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM)   LTE-TDD   10.17   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.94   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA,	~			LTE-TDD	10.25	± 9.6 %
10242   CAB				LTE-TDD	9.21	± 9.6 %
10243   CAB   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   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   LTE-TDD   10.06   ± 9.6 %   10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30   ± 9.6 %   10247   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   LTE-TDD   9.91   ± 9.6 %   10248   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   10.09   ± 9.6 %   10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.29   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.29   ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   9.81   ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.20   ± 9.6 %   10255   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)   LTE-TDD   9.90   ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, G4-QAM)   LTE-TDD   9.94   ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, G4-QAM)   LTE-TDD   9.34   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, G4-QAM)   LTE-TDD   9.98   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, G4-QAM)   LTE-TDD   9.99   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, G4-QAM)   LTE-TDD   9.98   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, G4-QAM)   LTE-TDD   9.98   ± 9.6 %   10258			LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10244   CAD		-	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)		9.86	± 9.6 %
10245         CAD         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)         LTE-TDD         10.06         ± 9.6 %           10246         CAD         LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)         LTE-TDD         9.30         ± 9.6 %           10247         CAG         LTE-TDD (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-TDD         9.29         ± 9.6 %           10250         CAG         LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)         LTE-TDD         9.81         ± 9.6 %           10251         CAG         LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)         LTE-TDD         10.17         ± 9.6 %           10252         CAG         LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)         LTE-TDD         9.24         ± 9.6 %           10253         CAF         LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-TDD         9.90         ± 9.6 %           10254         CAF         LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)         LTE-TDD         10.14         ± 9.6 %           10255         CAF         LTE-TDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM)				LTE-TDD	9.46	± 9.6 %
10246   CAD   LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)   LTE-TDD   9.30   ± 9.6 %   10247   CAG   LTE-TDD (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-TDD   9.29   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81   ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.81   ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.90   ± 9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   9.90   ± 9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   10.14   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.90   ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.96   ± 9.6 %   10257   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.96   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.94   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, G4-QAM)   LTE-TDD   9.94   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK)   LTE-TDD   9.34   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10258   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10258   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10258   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10258   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10258   CAD   LTE				LTE-TDD	10.06	± 9.6 %
10247   CAG   LTE-TDD (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-TDD   9.29   ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81   ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   10.17   ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.90   ± 9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.114   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.96   ± 9.6 %   10257   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM)   LTE-TDD   9.96   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   9.34   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   1025					10.06	± 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-TDD   9.29 ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81 ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   10.17 ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24 ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.90 ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14 ± 9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   10.14 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20 ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.96 ± 9.6 %   10257   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.08 ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.34 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QA						
10249   CAG   LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)   LTE-TDD   9.29 ± 9.6 %   10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81 ± 9.6 %   10251   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   10.17 ± 9.6 %   10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24 ± 9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.90 ± 9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   10.14 ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20 ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.96 ± 9.6 %   10257   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.08 ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.34 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98 ± 9.6 %   10259   CAD   LTE-TDD   9.98 ± 9.6 %   10259   CAD					9.91	± 9.6 %
10250   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)   LTE-TDD   9.81   ± 9.6 %						
10251 CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)   LTE-TDD   10.17				<del></del>	-	
10252   CAG   LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)   LTE-TDD   9.24   ±9.6 %   10253   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)   LTE-TDD   9.90   ±9.6 %   10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14   ±9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   ±9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM)   LTE-TDD   9.96   ±9.6 %   10257   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.08   ±9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.34   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ±9.6 %   10259   CAD   LTE-TDD   9.98   ±9.6 %   10259   CAD					9.81	± 9.6 %
10253         CAF         LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)         LTE-TDD         9.90         ± 9.6 %           10254         CAF         LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)         LTE-TDD         10.14         ± 9.6 %           10255         CAF         LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)         LTE-TDD         9.20         ± 9.6 %           10256         CAB         LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM)         LTE-TDD         9.96         ± 9.6 %           10257         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)         LTE-TDD         10.08         ± 9.6 %           10258         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)         LTE-TDD         9.34         ± 9.6 %           10259         CAD         LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)         LTE-TDD         9.98         ± 9.6 %						
10254   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)   LTE-TDD   10.14   ± 9.6 %   10255   CAF   LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)   LTE-TDD   9.20   ± 9.6 %   10256   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)   LTE-TDD   9.96   ± 9.6 %   10257   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)   LTE-TDD   10.08   ± 9.6 %   10258   CAB   LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   LTE-TDD   9.34   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   LTE-TDD   9.98   ± 9.6 %   10259   CAD   LTE-TDD   10259   CAD   LTE-TDD   9.98   ± 9.6 %   10259						
10255         CAF         LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)         LTE-TDD         9.20         ± 9.6 %           10256         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)         LTE-TDD         9.96         ± 9.6 %           10257         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)         LTE-TDD         10.08         ± 9.6 %           10258         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)         LTE-TDD         9.34         ± 9.6 %           10259         CAD         LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)         LTE-TDD         9.98         ± 9.6 %           10269         CAD         LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)         LTE-TDD         9.98         ± 9.6 %				****		
10256 CAB LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.96 ± 9.6 % 10257 CAB LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.08 ± 9.6 % 10258 CAB LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD 9.34 ± 9.6 % 10259 CAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD 9.98 ± 9.6 % 10259 CAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD 9.98						
10257         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)         LTE-TDD         10.08         ± 9.6 %           10258         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)         LTE-TDD         9.34         ± 9.6 %           10259         CAD         LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)         LTE-TDD         9.98         ± 9.6 %           10259         CAD         LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)         LTE-TDD         9.98         ± 9.6 %						
10258         CAB         LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)         LTE-TDD         9.34         ± 9.6 %           10259         CAD         LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)         LTE-TDD         9.98         ± 9.6 %           40060         CAD         LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)         LTE-TDD         9.98         ± 9.6 %	-					
10259 CAD LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD 9.98 ± 9.6 %		_			+	
10260 CAD LIFETDD (CC EDMA 100%) DD 0.441 CL 0.441						
10200   CAD   LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   LTE-TDD   9.97   ± 9.6 %						
	10260	CAD	LTE-TOD (SC-FDIMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %

10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	1	Т	
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QFSK)  LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.24	±9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	9.83	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	10.16	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QFSK)	LTE-TDD	9.23	± 9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	9.92	± 9.6 %
10267	CAG	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	9.30	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	10.13	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10277	CAA	PHS (QPSK)	WCDMA	3.96	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	11.81	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	PHS	12.18	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10295	AAB	CDMA2000, RC3, SO3, Full Rate  CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	3.50	± 9.6 %
10293	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)  LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)  LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	5.72	± 9.6 %
10299	AAD		LTE-FDD	6.39	± 9.6 %
10300	AAA	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 04QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, POSC)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA		WiMAX	14.58	± 9.6 %
		IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	WiMAX	14.57	± 9.6 %
10311	AAA	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK) iDEN 1:3	LTE-FDD	6.06	± 9.6 %
10313		iDEN 1:6	iDEN	10.51	± 9.6 %
	AAA		iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAE	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAE	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAE	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10406 10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %

10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Та .		
10414	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.23	± 9.6 %
10418		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.19	± 9.6 %
10422	AAC		WLAN	8.32	± 9.6 %
10423		IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.40	± 9.6 %
			WLAN	8.41	± 9.6 %
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427 10430	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
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Certificate No: EX3-3917\_May22 Page 16 of 25

		5 - 110 - 11			
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub) LTE-TDD		8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	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	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	± 9.6 %
10536	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAC	IEEE 802.11ac WIFI (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
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10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAD	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 % ± 9.6 %
10583	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN		
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10585	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN		± 9.6 %
10587	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10591	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.67	± 9.6 %
10592	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.63	± 9.6 %
10593	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.79	± 9.6 %
10594	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)		8.64	± 9.6 %
10595	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.74	± 9.6 %
10597	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN WLAN	8.71	± 9.6 %
10598	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10599	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)		8.50	± 9.6 %
10600	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10601	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.88	± 9.6 %
10602	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.82	± 9.6 %
10603	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	8.94	± 9.6 %
10604	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	9.03	± 9.6 %
	, , , , ,	TO / III MINOU, HOWITZ, MICOO, BUPC GC)	WLAN	8.76	± 9.6 %

10605	AAC	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	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	-	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)		8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.96	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
		<u> </u>	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632		IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
	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	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAD	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAD	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAC	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %
10672	AAC	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
		The second secon		·	

10673	AAC	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674		IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAC	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAC	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAC	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAC	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAC	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAC	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAC	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAC	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAC	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAC	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAC	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAC	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	
10690	AAC	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN		± 9.6 %
10691	AAC	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10692	AAC	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.25	± 9.6 %
10693	AAC	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.29	± 9.6 %
10694	AAC	IEEE 802.11ax (20MHz, MCS11, 99pc dc)		8.25	± 9.6 %
10695	AAC	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.57	± 9.6 %
10696	AAC	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.78	± 9.6 %
10697	AAC	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.91	± 9.6 %
10698	AAC	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.61	± 9.6 %
10699	AAC	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.89	± 9.6 %
10700	AAC	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.82	± 9.6 %
10701	AAC	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10702	AAC	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.86	± 9.6 %
10703	AAC	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.70	± 9.6 %
10704	AAC	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.82	± 9.6 %
10705	AAC	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.56	± 9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.69	± 9.6 %
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.66	± 9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.32	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.55	± 9.6 %
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.33	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.29	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.39	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.67	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10717	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 %
10719	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 %
10721	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAC		WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc) IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAC		WLAN	8.66	± 9.6 %
10120	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %

EX3DV4-SN:3917

May 17, 2022

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10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 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 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	±9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 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	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %

Certificate No: EX3-3917\_May22

Page 21 of 25

10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6%
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	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	AAE	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, QPSK, 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	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G 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	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 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)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QP\$K, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %

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10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 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-OFDM, 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	± 9.6 %
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	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 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	8.41	± 9.6 %
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %

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10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAD	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	5.90	± 9.6 %
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %
10978	AAA	ULLA BDR	ULLA	2.23	± 9.6 %
10979	AAA	ULLA HDR4	ULLA	7.02	± 9.6 %
10980	AAA	ULLA HDR8	ULLA	8.82	± 9.6 %
10981	AAA	ULLA HDRp4	ULLA	1.50	± 9.6 %
10982	AAA	ULLA HDRp8	ULLA	1.44	± 9.6 %
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	± 9.6 %
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	± 9.6 %

Test Report No. 14757979H-C-R1 Page 59 of 63

EX3DV4-SN:3917

May 17, 2022

10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	± 9.6 %
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	± 9.6 %
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	± 9.6 %
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	± 9.6 %
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	± 9.6 %
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	± 9.6 %

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

Certificate No: EX3-3917\_May22

Page 25 of 25

Test Report No. 14757979H-C-R1 Page 60 of 63

#### System check uncertainty

The uncertainty budget has been determined for the DASY5 measurement system according to the SPEAG documents and is given in the following Table.

# Repeatability Budget for System Check <0.3 to 3 GHz range Body>

Error Description		ertainty	,	divisor	(ci)	(ci)		indard certainty	Standard Uncertainty	
		e ± %	distribution	divisor	1 g	10 g	(1 g) ± %		(10 g) ± %	
Measurement System				•						
Probe calibration	±	1.8	Normal	1	1	1	±	1.8	±	1.8
Axial isotropy of the probe	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Spherical isotropy of the probe	±	0.0	Rectangular	√3	1	0	±	0.0	±	0.0
Boundary effects	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Probe linearity	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Detection limit	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Modulation response	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Readout electronics	±	0.0	Normal	1	1	1	±	0.0	±	0.0
Response time	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Integration time	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
RF ambient Noise	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
RF ambient Reflections	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Probe Positioner	±	0.02	Rectangular	√3	1	1	±	0.0	±	0.0
Probe positioning	±	0.4	Rectangular	√3	1	1	±	0.2	±	0.2
Max.SAR Eval.	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Dipole Related				•						
Dev. of experimental dipole	±	0.0	Rectangular	√3	1	1	±	0.0	±	0.0
Dipole Axis to Liquid Distance	±	2.0	Rectangular	√3	1	1	±	1.2	±	1.2
Input power and SAR drift meas.	±	3.4	Rectangular	√3	1	1	±	2.0	±	2.0
Phantom and Setup			•	·	•	•				
Phantom uncertainty	±	4.0	Rectangular	√3	1	1	±	2.3	±	2.3
SAR correction	±	1.9	Rectangular	√3	1	0.84	±	1.1	±	0.9
Liquid conductivity (meas.)	±	5.0	Normal	1	0.78	0.71	+	3.9	+	3.6
Liquid permittivity (meas.)	±	5.0	Normal	1	0.26	0.26	-	1.3	-	1.3
Temp. unc Conductivity	±	3.4	Rectangular	√3	0.78	0.71	±	1.5	±	1.4
Temp. unc. - Permittivity	±	0.4	Rectangular	√3	0.23	0.26	±	0.1	±	0.1
Combined Standard I	Jnce	ertainty				1	±	5.856	±	5.562
Expanded Uncertainty (k=2)						1	±	11.7	±	11.1