

APPENDIX H: CALIBRATION CERTIFICATES



CERTIFICATE OF CALIBRATION

Customer: PCTEST ENGINEERING LAB 9017 MENDENHALL CT SUITE G COLUMBIA, MD 21045 PO Number: 220121 KW45



Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

Manufacturer: Rigol Technologies, Inc. Model Number: DS1052E Description: Oscilloscope, 2 Channel Serial Number: DS1ED124011876 ID: 83123 As-Found: In Tolerance As-Left: In Tolerance

Issue Date: Mar 22, 2022 Calibration Date: Mar 22, 2022 Due Date: Mar 22, 2024



Calibrated To: Manufacturer Specification

Calibration Procedure: 1-AC47978-2

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Logo and Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor k=2, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Notes:

One or more test points are close to the tolerance limit, however no adjustment was made due to the impact on other test points.





Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	0 0 T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Warmup										
30 Minute Warmup			Р	Р	Р					
Input Impedance										
Channel 1	1.000MOhm	±(2% Rdg)	0.980	1.020	1.003 MOhm		8.1e-004	1.4e-003	MOhm	24.7 : 1
Channel 2	1.000MOhm	±(2% Rdg)	0.980	1.020	1.002 MOhm		8.1e-004	1.4e-003	MOhm	24.7 : 1
Vertical Accuracy										
Channel 1: 2 mV/ Div	8.00mVp-p	±(4% Rdg)	7.68	8.32	8.16 mVp-p		4.1e-002	4.3e-002	mVp-p	7.8 : 1
	1kHz									
5 mV/ Div	20.0mVp-p	±(4% Rdg)	19.2	20.8	20.6 mVp-p		5.5e-002	1.3e-001	mVp-p	14.5 : 1
	1kHz									
10 mV/ Div	50.0mVp-p	±(3% Rdg)	48.5	51.5	50.8 mVp-p		9.1e-002	1.5e-001	mVp-p	16.5 : 1
	1kHz									
20 mV/ Div	100mVp-p	±(3% Rdg)	97	103	101 mVp-p		1.5e-001	1.2e+000	mVp-p	20.0 : 1
	1kHz									
50 mV/ Div	200mVp-p	±(3% Rdg)	194	206	204 mVp-p		2.7e-001	1.2e+000	mVp-p	22.2 : 1
	1kHz									
100 mV/ Div	500mVp-p	±(3% Rdg)	485	515	508 mVp-p		6.3e-001	1.4e+000	mVp-p	23.8 : 1
	1kHz									
200 mV/ Div	1000mVp-p	±(5% Rdg)	950	1050	1020 mVp-p		1.2e+000	1.7e+000	mVp-p	41.7 : 1
	1kHz									
500 mV/ Div	2.00Vp-p	±(3% Rdg)	1.94	2.06	2.04 Vp-p		2.4e-003	1.2e-002	Vр-р	25.0 : 1
	1kHz		1.05		5 00 1 /			4.0		05.0
1 V/ Div	5.00Vp-p	±(3% Rdg)	4.85	5.15	5.06 Vp-p		6.0e-003	1.3e-002	Vp-p	25.0 : 1
0.1/L D'	1kHz		0.7	10.0	10.01/		1.0000	1.0.001		05.0 1
2 V/ Div	10.0Vp-p	±(3% Rdg)	9.7	10.3	10.2 Vр-р		1.2e-002	1.2e-001	Vp-p	25.0 : 1

Customer Number: 1-669595-000

OPS-F20-014R10 09/29/21 FP001R9 4/9/2021





Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

			As Found/	As Left Data						
Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	0 0 T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Vertical Accuracy										
	1kHz									
5 V/ Div	20.0Vр-р	±(3% Rdg)	19.4	20.6	20.4 Vp-p		2.4e-002	1.2e-001	Vp-p	25.0 : 1
	1kHz									
10 V/ Div	40.0Vp-p	±(3% Rdg)	38.8	41.2	40.8 Vp-p		4.8e-002	1.3e-001	Vp-p	25.0 : 1
	1kHz									
Channel 2: 2 mV/ Div	8.00mVp-p	±(4% Rdg)	7.68	8.32	8.16 mVp-p		4.0e-002	4.2e-002	mVp-p	8.0 : 1
	1kHz									
5 mV/ Div	20.0mVp-p	±(4% Rdg)	19.2	20.8	20.6 mVp-p		5.5e-002	1.3e-001	mVp-p	14.5 : 1
	1kHz									
10 mV/ Div	50.0mVp-p	±(3% Rdg)	48.5	51.5	50.8 mVp-p		9.1e-002	1.5e-001	mVp-p	16.5 : 1
	1kHz									
20 mV/ Div	100mVp-p	±(3% Rdg)	97	103	101 mVp-p		1.5e-001	1.2e+000	mVp-p	20.0 : 1
	1kHz									
50 mV/ Div	200mVp-p	±(3% Rdg)	194	206	204 mVp-p		2.7e-001	1.2e+000	mVp-p	22.2 : 1
	1kHz									
100 mV/ Div	500mVp-p	±(3% Rdg)	485	515	512 mVp-p		6.3e-001	1.4e+000	mVp-p	23.8 : 1
	1kHz									
200 mV/ Div	1000mVp-p	±(3% Rdg)	970	1030	1000 mVp-p		1.2e+000	1.7e+000	mVp-p	25.0 : 1
	1kHz									
500 mV/ Div	2.00Vp-p	±(3% Rdg)	1.94	2.06	2.02 Vp-p		2.4e-003	1.2e-002	Vp-p	25.0 : 1
	1kHz									
1 V/ Div	5.00Vp-p	±(3% Rdg)	4.85	5.15	5.08 Vp-p		6.0e-003	1.3e-002	Vp-p	25.0 : 1
	1kHz									
2 V/ Div	10.0Vр-р	±(3% Rdg)	9.7	10.3	10.2 Vp-p		1.2e-002	1.2e-001	Vp-p	25.0 : 1
	1kHz									

Customer Number: 1-669595-000 OPS-F20-014R10 09/29/21 FP001R9 4/9/2021





Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

			As Found/	As Left Data						
Description	Setpoints	Ассигасу	Low Limit	High Limit	As Found / As Left	0 0 T	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Vertical Accuracy										
5 V/ Div	20.0Vp-p	±(3% Rdg)	19.4	20.6	20.4 Vp-p		2.4e-002	1.2e-001	Vp-p	25.0 : 1
	1kHz									
10 V/ Div	40.0Vp-p	±(3% Rdg)	38.8	41.2	40.4 Vp-p		4.8e-002	1.3e-001	Vp-p	25.0 : 1
	1kHz									
DC Measurement Accuracy										
10mV/Div	30.0mV	±(3% Rdg + 2 mV)	27.1	32.9	30.4 mV		6.7e-002	1.4e-001	mV	43.3 : 1
100mV/Div	300mV	±(3% Rdg + 11 mV)	280	320	302 mV		3.9e-001	1.3e+000	mV	51.3 : 1
1V/Div	3.00V	±(3% Rdg + 0.101 V)	2.81	3.19	3.03 V		3.6e-003	1.3e-002	V	52.8 : 1
10V/Div	30.0V	±(3% Rdg + 1 V)	28.1	31.9	30.6 V		3.6e-002	1.3e-001	V	52.8 : 1
Time Mark (Frequency)										
Time Mark (Frequency)	100µsec	±(50 PPM Rdg + 1 LSD)	9.99	10.01	10.00 kHz		2.2e-005	1.2e-002	kHz	100.0 : 1
	1µsec	±(50 PPM Rdg + 1 LSD)	0.999	1.001	1.000 MHz		2.2e-006	1.2e-003	MHz	100.0 : 1
	20nsec	±(50 PPM Rdg + 1 LSD)	49.99	50.01	50.00 MHz		1.1e-005	1.2e-002	MHz	100.0 : 1





Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

			As Found/A	s Left Data						
Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	•	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Vertical Bandwidth										
Ch. 1: 100mV/Div - Reference	600.0mVp-p				608.0 mVp-p		7.8e-005	1.2e-001	mVp-p	
	50kHz									
Ch. 1: 100mV/Div - Full Bandwidth	600.0mVp-p				461.0 mVp-p		7.8e-005	1.2e-001	mVp-p	
	50MHz									
Ch. 1: Bandwidth Error		≥ (-3.00 dB)	-3.00		-2.40 dB		3.3e-002	3.5e-002	dB	
Ch. 2: 100mV/Div - Reference	600.0mVp-p				608.0 mVp-p		7.8e-005	1.2e-001	mVp-p	
	50kHz									
Ch. 2: 100mV/Div - Full Bandwidth	600.0mVp-p				458.0 mVp-p		7.8e-005	1.2e-001	mVp-p	
	50MHz									
Ch. 2: Bandwidth Error		≥ (-3.00 dB)	-3.00		-2.46 dB		3.3e-002	3.5e-002	dB	

Field not applicable.



40.00%

Customer: PCTEST ENGINEERING LAB 9017 MENDENHALL CT SUITE G COLUMBIA, MD 21045 PO Number: 220121.KW45



Onsite / Non-Workable

Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

	Traceable Standards									
Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use			
55XX012	Fluke Corporation	5522A-SC1100	Multifunction Calibrator w/Scope Option	30-Jun-21	30-Jun-22	5-&55XX012-1-1	AF/AL			
The use of the st	andard is defined as: AF - used	for as-found readings, AL - used f	or as-left readings.							
			Environmental Data							
Temperatu		Relative Humidity	Temp / RH Asset	Lab Are		Lab Descriptio				

Decision Rule

MANUAL

Х

When compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows: The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the "Determining and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings" procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.

70.00°F /21.11°C





Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

	Legend
Торіс	Description
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
As Found	Initial measurement results
As Left	Measurement results after adjustment and/or repair
Blank Data Field	Test is not applicable for the UUT
Cal Process Uncertainty (CPU)	The uncertainty of calibration process for the reported measurement result
Calibration Date	Indicates the date that the calibration was completed
Cover Factor (k)	A measure of uncertainty that defines an interval about the measurement result
Due Date	Indicates the end of the calibration cycle as requested by the customer
Issue Date	Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued
Low / High Limits	Establishes UUT acceptable performance limits for the test measurement
Measurement Uncertainty	The dispersion of the values attributed to a measured quantity
OOA	Out of Acceptance (#)
ООТ	Out of Tolerance (*)
Setpoints	Measurement target values
Traceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Traceability Number	Unique identifier(s) used to document traceability of calibration standards
TUR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UUT	Unit Under test





Certificate/SO Number: 6-GM8C5-18740016-1 Revision 0

Calibrated At: 9017 MENDENHALL CT SUITE G COLUMBIA, MD 21045 Facility Responsible: 100 Dobbs Lane Cherry Hill, NJ 08034 800-828-1470



Date Received: March 13, 2022 Service Level : N9

Certificate - Page 8 of 8		

Calibrated By:

Pat Marker

Pat Marker

Calibration Technician

Electronically Signed By:

Customer Number: 1-669595-000

Reviewed By:

Richard Roman

Lab Manager

4

Mar 22, 2022

20:00:20 -04:00

Electronically Signed By:

Jon Martz for

Mar 22, 2022 22:42:21 -04:00

Reprinted on April 01, 2022

OPS-F20-014R10 09/29/21 FP001R9 4/9/2021

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

Accredited by the Swiss Accreditation Service (SAS)

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





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 S Swiss Calibration Service

Accreditation No.: SCS 0108

Client Element

Certificate No: 5G-Veri10-1004_Aug22

Object	5G Verification	n Source 10 GHz - SN: 1004	and-
			MARS 27
Calibration procedure(s)	QA CAL-45.v3 Calibration pro	3 ocedure for sources in air above 6 GHz	
Calibration date:	August 17, 20	22	
	 Second statements of the second statements 	national standards, which realize the physical units o ce probability are given on the following pages and ar	
The measurements and the uncert	anties with confident	se probability are given on the following pages and a	e part of the certificate.
All calibrations have been conducted	ed in the closed labor	ratory facility: environment temperature (22 \pm 3)°C an	d humidity < 70%.
Calibration Equipment used (M&TE	E critical for calibratio	n)	
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Reference Probe EUmmWV3	SN: 9374	2021-12-21(No. EUmmWV3-9374_Dec21)	Dec-22
DAE4ip	SN: 1602	2022-06-27 (No. DAE4ip-1602_Jun22)	Jun-23
	ID #	2022-06-27 (No. DAE4ip-1602_Jun22) Check Date (in house)	Jun-23 Scheduled Check
Secondary Standards RF generator Anapico APSIN20G			
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Secondary Standards	ID # SN: 827	Check Date (in house) 18-Dec-18 (in house check Dec-21)	Scheduled Check In house check: Dec-23
Secondary Standards RF generator Anapico APSIN20G	ID # SN: 827 Name	Check Date (in house) 18-Dec-18 (in house check Dec-21) Function	Scheduled Check In house check: Dec-23 Signature
Secondary Standards	ID # SN: 827	Check Date (in house) 18-Dec-18 (in house check Dec-21) Function	Scheduled Check In house check: Dec-23

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





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Schweizerischer Kalibrierdienst

C Service suisse d'étalonnage

S Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

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Glossary

CW

Continuous wave

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

Methods Applied and Interpretation of Parameters

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

Calibrated Quantity

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

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

Measurement Conditions

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

DASY Version	DASY8 Module mmWave	V3.0
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
XY Scan Resolution	dx, dy = 7.5 mm	
Number of measured planes	2 (10mm, 10mm + λ/4)	
Frequency	10 GHz ± 10 MHz	

Calibration Parameters, 10 GHz

Circular Averaging

Distance Horn Aperture	Prad ¹	Max E-field	Uncertainty	Avg Pow	Uncertainty	
to Measured Plane	(mW)	(V/m)	(k = 2)	Avg (psPDn+, psPDtot+, psPDmod+)		(k = 2)
				(V)	//m²)	
				1 cm ²	4 cm ²	
10 mm	86.1	146	1.27 dB	53.3	49.4	1.28 dB

Square Averaging

Distance Horn Aperture	Prad	Max E-field	Uncertainty	Avg Power Density		Uncertainty
to Measured Plane	(mW)	(V/m)	(k = 2)	Avg (psPDn+, psPDtot+, psPDmod+)		(k = 2)
				(W	//m²)	
				1 cm ²	4 cm ²	
10 mm	86.1	146	1.27 dB	53.4	49.4	1.28 dB

¹ Assessed ohmic and mismatch loss plus numerical offset: 0.55 dB

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

Medium

Air

Device under Test Properties

Dimensions [mm]	IMEI	DUT Type	
0 GHz 100.0 x 100.0 x 1	.72.0	SN: 1004	-	
ns				
Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
10.0 mm	Validation band	CW	10000.0, 10000	1.0
	10 GHz 100.0 × 100.0 × 1 ns Position, Test Distance [mm]	10 GHz 100.0 x 100.0 x 172.0 ns Position, Test Distance Band [mm]	10 GHz 100.0 x 100.0 x 172.0 SN: 1004 ns Position, Test Distance Band Group, [mm]	IO GHz 100.0 x 100.0 x 172.0 SN: 1004

Hardware Setup

Phantom mmWave Phantom - 1002

Scan Setup

Grid Extents [mm] Grid Steps [lambda] Sensor Surface [mm] MAIA **5G Scan** 120.0 x 120.0 0.25 x 0.25 10.0 MAIA not used Probe, Calibration Date EUmmWV3 - SN9374_F1-55GHz, 2021-12-21

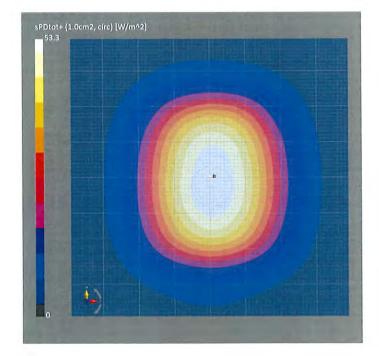
Measurement Results

Date Avg. Area [cm²] psPDn+ [W/m²] psPDtot+ [W/m²] psPDmod+ [W/m²] E_{max} [V/m] Power Drift [dB] **5G Scan** 2022-08-17, 13:14 1.00 53.2 53.3 53.4 146 0.00

DAE, Calibration Date

DAE4ip Sn1602,

2022-06-27

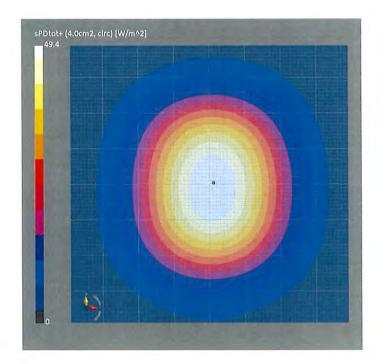


Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Dimensions [mm] I	MEI	DUT Type	
Hz 100.0 x 100.0 x 1	.72.0 5	SN: 1004	-	
Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
10.0 mm	Validation band	CW	10000.0, 10000	1.0
Medium		and the second		DAE, Calibration Date
Air		EUmmWV3 - SN 2021-12-21	19374_F1-55GHz,	DAE4ip Sn1602, 2022-06-27
		Measureme	nt Results	
	5G Sc	an		5G Scan
	120.0 x 120	0.0 Date		2022-08-17, 13:14
	0.25 x 0.	25 Avg. Area [cm	2]	4.00
	10	0.0 psPDn+ [W/m	12]	49.3
	MAIA not us	ed psPDtot+ (W/ psPDmod+ (W		49.4 49.6
	Hz 100.0 x 100.0 x 1 Position, Test Distance [mm]	Dimensions [mm] I Hz 100.0 x 100.0 x 172.0 S Position, Test Distance Band [mm] 10.0 mm Validation band Medium Air 5G Sc 120.0 x 120 0.25 x 0.	Dimensions [mm] IMEI Hz 100.0 x 100.0 x 172.0 SN: 1004 Position, Test Distance Band Group, [mm]	Dimensions [mm] IMEI DUT Type Hz 100.0 x 100.0 x 172.0 SN: 1004 - Position, Test Distance Band Group, Frequency [MHz], Channel Number 10.0 mm Validation band CW 10000.0, 10000 Medium Probe, Calibration Date Air EUmmWV3 - SN9374_F1-55GHz, 2021-12-21 Measurement Results 5G Scan 120.0 x 120.0 Date 0.25 x 0.25 Avg. Area [cm ²]

E_{max} [V/m]

Power Drift [dB]



146 0.00

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

Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type	
5G Verification Source	10 GHz 100.0 x 100.0 x 1	.72.0	SN: 1004	-	
Exposure Conditio	ns				
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz,	DAE4ip Sn1602,
		2021-12-21	2022-06-27

Scan Setup

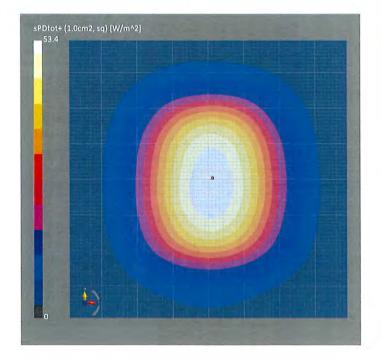
Grid Extents [mm]	
Grid Steps [lambda]	
Sensor Surface [mm]	
MAIA	

5G Scan 120.0 x 120.0 0.25 x 0.25 10.0 MAIA not used

EUmmWV3 - S	N9374_F1	-55GHz
2021-12-21		

Measurement Results

1		5G Scan
)	Date	2022-08-17, 13:14
5	Avg. Area [cm ²]	1.00
)	psPDn+ [W/m ²]	53.3
ł	psPDtot+ [W/m ²]	53.4
	psPDmod+ [W/m ²]	53.5
	E _{max} [V/m]	146
	Power Drift [dB]	0.00



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

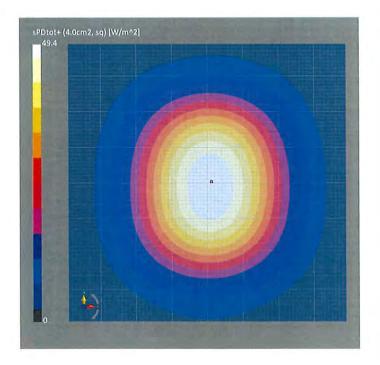
Device under Test Properties Dimensions [mm] IMEI **DUT Type** Name, Manufacturer 5G Verification Source 10 GHz 100.0 x 100.0 x 172.0 SN: 1004 **Exposure Conditions Conversion Factor** Frequency [MHz], **Phantom Section Position, Test Distance** Band Group, **Channel Number** [mm] 10000.0, 1.0 5G -10.0 mm Validation band CW 10000 **Hardware Setup** DAE, Calibration Date **Probe, Calibration Date** Phantom Medium EUmmWV3 - SN9374_F1-55GHz, DAE4ip Sn1602, mmWave Phantom - 1002 Air 2022-06-27 2021-12-21 **Measurement Results** Scan Setup 5G Sca

Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	MAIA not used

m		
.0	Date	
25	Avg. Area [cm ²]	
.0	psPDn+ [W/m²]	
ed	psPDtot+ [W/m ²]	
	psPDmod+ [W/m ²]	

E_{max} [V/m] Power Drift [dB]

5G Scan
2022-08-17, 13:14
4.00
49.2
49.4
49.5
146
0.00



Calibration Laboratory of

Schmid & Partner **Engineering AG**

Zeughausstrasse 43, 8004 Zurich, Switzerland

ac-MRA Intulati



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Accreditation No.: SCS 0108

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Client

Element

Certificate No

EUmm-9407_Oct22

CALIBRATION CERTIFICATE

Object	EUmmWV3 - SN:9407 MAB	122
Calibration procedure(s)	QA CAL-02.v9, QA CAL-25.v7, QA CAL-42.v2 Calibration procedure for E-field probes optimized for close near field evaluations in air	
Calibration date	October 17, 2022	
This calibration certificate do The measurements and the u	cuments the traceability to national standards, which realize the physical units of measurements (SI uncertainties with confidence probability are given on the following pages and are part of the certific). ate.
All calibrations have been co	nducted in the closed laboratory facility: environment temperature (22 ± 3) °C and humidity < 70%.	

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power sensor NRP110T	SN: 101244	14-Mar-22 (No. 20A1037915)	Mar-23
Spectrum analyzer FSV40	SN: 101832	25-Jan-22 (No. 4030-315003399)	Jan-25
Ref. Probe EUmmWV3	SN: 9374	21-Dec-21 (No. EUmmWV3-9374_Dec21)	Dec-22
DAE4	SN: 789	24-Dec-21 (No. DAE4-789_Dec21)	Dec-22

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Generator APSIN26G	SN: 669	28-Mar-17 (in house check May-22)	In house check: May-23
Generator Agilent E8251A	SN: US41140111	28-Mar-17 (in house check May-22)	In house check: May-23

	Name	Function	Signature
Calibrated by	Leif Klysner	Laboratory Technician	Saf Algen
Approved by	Sven Kühn	Technical Manager	Sn
This calibration certifica	te shall not be reproduced except	in full without written approval of the lab	Issued: October 18, 2022 oratory.

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





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Glossary

NORMx,y	sensitivity in free space
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system
Sensor Angles	sensor deviation from the probe axis, used to calculate the field orientation and polarization
ĸ	is the wave propagation direction

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- *NORMx,y*: Assessed for E-field polarization $\vartheta = 0$ ($f \le 900$ MHz in TEM-cell; f > 1800 MHz: R22 waveguide). For frequencies > 6 GHz, the far field in front of waveguide horn antennas is measured for a set of frequencies in various waveguide bands up to 110 GHz.
- DCPx, y: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- · PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- The frequency sensor model parameters are determined prior to calibration based on a frequency sweep (sensor model involving resistors R, R_p, inductance L and capacitors C, C_p).
- Ax,y; Bx,y; Cx,y; Dx,y; VRx,y: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).
- Equivalent Sensor Angle: The two probe sensors are mounted in the same plane at different angles. The angles are assessed using the information gained by determining the NORMx (no uncertainty required).
- Spherical isotropy (3D deviation from isotropy): in a locally homogeneous field realized using an open waveguide / horn setup.

Parameters of Probe: EUmmWV3 - SN:9407

Basic Calibration Parameters

	Sensor X	Sensor Y	Unc (k = 2)
Norm $(\mu V/(V/m)^2)$	0.02292	0.02733	±10.1%
DCP (mV) ^B	105.0	105.0	±4.7%
Equivalent Sensor Angle	-58.8	31.0	-

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

Frequency MHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (<i>k</i> = 2) dB
0.75	77.2	-0.03	0.20	±0.43
1.8	140.4	0.04	0.10	±0.43
2.0	133.0	0.15	0.22	±0.43
2.2	124.8	-0.05	-0.05	±0.43
2.5	123.0	0.06	0.04	±0.43
3.5	256.2	-0.21	-0.35	±0.43
3.7	249.8	-0.17	-0.33	±0.43
6.6	76.1	-0.27	-0.31	±0.98
8.0	68.3	-0.11	-0.12	±0.98
10.0	67.5	0.01	0.03	±0.98
15.0	55.3	0.30	0.28	±0.98
26.6	114.9	-0.09	-0.14	±0.98
30.0	121.2	-0.02	-0.03	±0.98
35.0	119.8	0.18	0.22	±0.98
40.0	105.8	0.31	0.39	±0.98
50.0	60.5	0.23	0.31	±0.98
55.0	75.8	0.03	-0.09	±0.98
60.0	80.0	0.01	0.03	±0.98
65.0	77.7	-0.04	0.03	±0.98
70.0	73.8	0.05	0.05	±0.98
75.0	73.2	-0.17	-0.22	±0.98
75.0	80.8	0.12	0.07	±0.98
80.0	79.9	-0.29	-0.24	±0.98
85.0	47.6	-0.27	-0.24	±0.98
90.0	72.3	-0.00	0.01	±0.98
92.0	72.0	0.12	0.10	±0.98
95.0	66.6	0.15	0.09	±0.98
97.0	57.0	0.15	0.08	±0.98
100.0	55.0	0.12	0.05	±0.98
105.0	53.0	-0.24	-0.20	±0.98
110.0	61.1	-0.01	0.01	±0.98

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

^B Linearization parameter uncertainty for maximum specified field strength.

Parameters of Probe: EUmmWV3 - SN:9407

Calibration Results for Modulation Response

UID	Communication System Name		Α	В	С	D	VR	Max	Max
			dB	dBõV		dB	mV	dev.	UncE
				-					k = 2
0	CW	X	0.00	0.00	1.00	0.00	138.1	±3.5%	±4.7%
		Y	0.00	0.00	1.00		67.7	1	
10352	Pulse Waveform (200Hz, 10%)	X	1.85	60.00	14.17	10.00	6.0	±1.0%	±9.6%
		Y	1.11	60.00	16.53		6.0	1	
10353	Pulse Waveform (200Hz, 20%)	X	1.27	60.00	13.01	6.99	12.0	±0.9%	±9.6%
		Y	0.79	60.00	15.55		12.0		
10354	Pulse Waveform (200Hz, 40%)	X	0.77	60.00	11.68	3.98	23.0	±1.3%	±9.6%
		Y	0.52	60.00	14.19		23.0		
10355	Pulse Waveform (200Hz, 60%)	X	0.46	60.00	10.91	2.22	27.0	±1.1%	±9.6%
		Y	0.40	60.00	12.85		27.0		
10387	QPSK Waveform, 1 MHz	X	1.06	60.00	11.45	1.00	22.0	±1.8%	±9.6%
		Y	1.03	60.00	11.69		22.0		
10388	QPSK Waveform, 10 MHz	X	1.28	60.00	11.64	0.00	22.0	±0.8%	±9.6%
		Y	1.33	60.00	11.95		22.0		
10396	64-QAM Waveform, 100 kHz	X	1.98	60.67	13.91	3.01	17.0	±0.6%	±9.6%
		Y	3.26	67.53	16.99		17.0	1	
10399	64-QAM Waveform, 40 MHz	X	2.13	60.00	12.20	0.00	19.0	±1.0%	±9.6%
		Y	2.09	60.00	12.52	1	19.0	1	
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.23	60.00	12.66	0.00	12.0	±0.9%	±9.6%
		Y	3.07	60.00	12.96	1	12.0	1	

Note: For details on UID parameters see Appendix

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

Parameters of Probe: EUmmWV3 - SN:9407

Calibration Results for Linearity Response

Frequency GHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (<i>k</i> = 2) dB
0.9	50.0	0.00	0.12	±0.2
0.9	100.0	-0.02	0.14	±0.2
0.9	500.0	0.01	-0.00	±0.2
0.9	1000.0	0.03	0.02	±0.2
0.9	1500.0	0.00	0.01	±0.2
0.9	2100.0	-0.03	0.02	±0.2

Sensor Frequency Model Parameters (750 MHz - 55 GHz)

	Sensor X	Sensor Y
R (Ω)	387.82	88.20
R _p (Ω)	444.93	95.13
L (nH)	0.48861	0.10271
C (pF)	0.0655	0.4111
Cp (pF)	0.0143	0.0778

Sensor Frequency Model Parameters (55 GHz – 110 GHz)

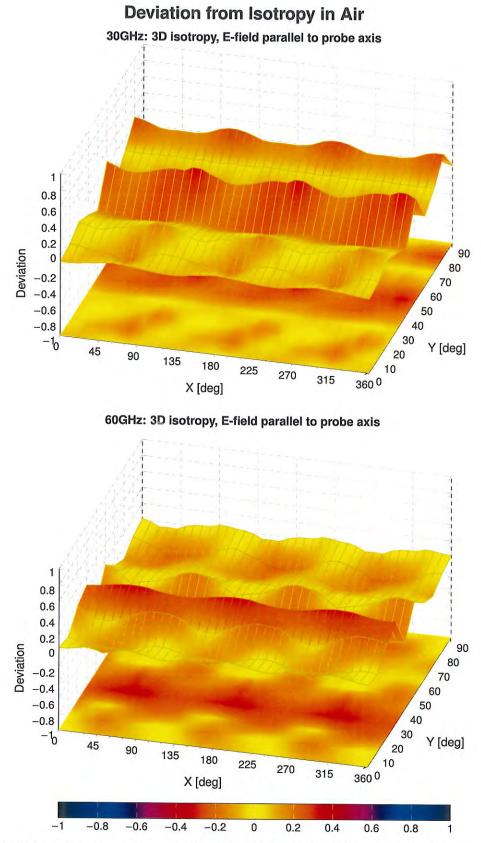
	Sensor X	Sensor Y
R (Ω)	63.48	21.07
R _p (Ω)	303.14	81.68
L (nH)	0.16078	0.04276
C (pF)	0.0248	0.1068
Cp (pF)	0.0292	0.1003

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V ⁻²	T5 V∽1	Т6
X	37.2	273.19	34.21	0.92	3.58	5.01	0.00	0.95	1.01
У	31.0	223.23	33.27	0.92	2.52	5.04	0.00	0.86	1.01

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle	-159.1°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	320 mm
Probe Body Diameter	8 mm
Tip Length	23 mm
Tip Diameter	8.0 mm
Probe Tip to Sensor X Calibration Point	1.5 mm
Probe Tip to Sensor Y Calibration Point	1.5 mm



Probe isotropy for E_{tot}: probe rotated $\phi = 0^{\circ}$ to 360°, tilted from field propagation direction \vec{k} Parallel to the field propagation ($\psi = 0^{\circ} - 90^{\circ}$) at 30 GHz: deviation within ±0.28 dB Parallel to the field propagation ($\psi = 0^{\circ} - 90^{\circ}$) at 60 GHz: deviation within ±0.30 dB

Appendix: Modulation Calibration Parameters

QIU	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
0		CW	CW	0.00	±4.7
10010	CAA	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	±9.6
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4,80	±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)			±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	7.74	±9.6
10035	CAA		Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1) IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	8.01	±9,6
10037			Bluetooth	4.77	±9.6
10038		IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9,6
	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
10061	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN		±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.30	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 38 Mbps)		10.77	±9.6
10070	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	WLAN CDMAROOG	11.00	±9.6
			CDMA2000	3.97	±9.6
10082	CAB DAC	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	<u></u>	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108	CAE	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

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
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	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAG	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	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAC	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	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAE	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	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9,21	±9.6
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD	5.73	±9.6
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6 ±9.6
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	6.50	
10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6 ±9.6
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.52	±9.6
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD		±9.6
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	6.50	±9.6
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)		5.73	±9.6
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)		6.52	±9.6
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	LTE-FDD	6.50	±9.6
10194	AAD	IEEE 802.11n (HT Greenfield, 8.5 Mbps, 16-QAM)	WLAN MILAN	8.09	±9.6
10195	CAE	IEEE 802.11n (HT Greenfield, 39 Mbps, 18-QAM)	WLAN	8.12	±9.6
10195	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.21	±9.6
10190	AAE	IEEE 802.11n (HT Mixed, 8.3 Mbps, BPSK)	WLAN	8.10	±9.6
10197	CAF	IEEE 802.111 (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.13	±9.6
10198	CAF		WLAN	8.27	±9.6
	1	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9,6
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
10223 10224	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

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10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10 232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)		10.25	±9.6
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAG	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	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	10.17	±9.6
10252	CAF		LTE-TDD	9.24	±9.6
10253	CAP	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)		9.90	±9.6
10254	CAB		LTE-TDD	10.14	±9.6
10256	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.98	±9.6
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.97	±9.6
10262	CAG		LTE-TDD	9.24	±9.6
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	9.83	±9.6
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, GPSK) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.23	±9.6
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	10.07	±9.6
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	9.30	±9.6
10269	CAP	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10209	CAB	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-TDD	10.13	±9.6
10270	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)		9.58	±9.6
10274	CAD	UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.10)		4.87	±9.6
10277	CAD	PHS (QPSK)	WCDMA PHS	3.96	±9.6
10278	CAD	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAG	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	11.81	±9.6
10290	CAG	CDMA2000, RC1, SO55, Full Rate		12.18	±9.6
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.91	±9.6
10292	CAG	CDMA2000, RC3, SO33, Full Rate	CDMA2000	3.46	±9.6
10293	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000 CDMA2000	3.39	±9.6
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.		3.50	±9.6
10200	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	CDMA2000 LTE-FDD	12.49 5.81	±9.6 ±9.6
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.81	
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
10200	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)			±9.6
10300	CAC	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	LTE-FDD	6.60	±9.6
	CAB	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3CTRL)	WIMAX	12.03	±9.6
10302	, unu			12.57	±9.6
10302	CAR	166 WIMAX (31:15 5me 10MU- 6400M 0100)			
10303	CAB	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	±9.6
	CAB CAA CAA	IEEE 802.16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC)	WIMAX WIMAX WIMAX	12.52 11.86 15.24	±9.6 ±9.6 ±9.6

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10307	AAB	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC)	WIMAX	14.49	±9.6
10308	AAB	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WiMAX	14.46	<u>+</u> 9.6
10309	AAB	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM,AMC 2x3)	WIMAX	14.58	±9.6
10310	AAB	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3	WIMAX	14.57	±9.6
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAD	IDEN 1:3	IDEN	10.51	±9.6
10314	AAD	IDEN 1:6	IDEN	13.48	±9.6
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	±9.6
10316	AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	±9.6
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	±9.6
10352	AAA	Pulse Waveform (200 Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200 Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200 Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200 Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200 Hz, 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	AAD	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc dc)	WLAN	8.37	±9.6
10401	AAA	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc dc)	WLAN	8.60	±9.6
10402	AAA	IEEE 802.11ac WiFi (80 MHz, 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	
10406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6 ±9.6
10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN		±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	1.54	±9.6
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)		8.23	±9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Ebitg)	WLAN	8.14	±9.6
10413	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.19	±9.6
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.32	±9.6
10423	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.47	±9.6
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.40	±9.6
10426	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10420	AAE		WLAN	8.45	±9.6
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
		LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAB	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	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAA	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	AAA	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	AAC	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc dc)	WLAN	8.63	±9.6
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	±9.6
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	±9.6
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	±9.6
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	±9.6
10464	AAD	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	AAA	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	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	±9.6
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6
	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6

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10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	±9.6
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	±9.6
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	±9.6
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	±9.6
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	±9.6
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	±9.6
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	±9.6
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	±9.6
10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	±9.6
10489	AAC	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	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	±9.6
10493	AAF	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	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	±9.6
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	±9.6
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	±9.6
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	±9.6
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	±9.6
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	±9.6
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	±9.6
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6
10506 10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6
10508	AAC	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 (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 18-QAM, UL Sub) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.49	±9.6
10512	AAF		LTE-TDD	8.51	±9.6
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	7,74	±9.6
10513	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.42	±9.6
10515	AAE		LTE-TDD	8.45	±9.6
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN MILAN	1.58	±9.6
10517	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	±9.6
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN WLAN	1.58	±9.6
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23 8.39	±9.6
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN		
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	±9.6 ±9.6
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	
10522	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.45	±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 (20 MHz, MCS0, 99pc dc)	WLAN	8.27	±9.6 ±9.6
10526	AAF	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc dc)	WLAN	8.42	±9.6
10527	AAF	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc dc)	WLAN	8.21	±9.6
10528	AAF	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc dc)	WLAN	8.36	±9.6
10529	AAF	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc dc)	WLAN	8.36	±9.6
10531	AAF	IEEE 802.11ac WIFI (20 MHz, MCS6, 99pc dc)	WLAN	8.43	±9.6
10532	AAF	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc dc)	WLAN	8.29	±9.6
10533	AAE	IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc dc)	WLAN	8.38	
10534	AAE	IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc dc)	WLAN	8.45	±9.6
10535	AAE	IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc dc)	WLAN	8.45	±9.6
10536	AAF	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc dc)	WLAN	8.32	±9.6
		IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc dc)	WLAN	8.44	±9.6
10537	AAF				
	AAF	IEEE 802.11ac WIFI (40 MHz, MCS4, 99pc dc)	WLAN	8.54	±9.6

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10541	AAA	IEEE 802.11ac WIFi (40 MHz, MCS7, 99pc dc)	WLAN	8.46	±9.6
10542	AAA	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc dc)	WLAN	8.65	±9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc dc)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc dc)	WLAN	8.47	±9.6
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc dc)	WLAN	8.55	±9.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc dc)	WLAN	8.35	±9.6
10547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc dc)	WLAN	8.49	±9.6
10548	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc dc)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc dc)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc dc)	WLAN	8.50	±9.6
10552	AAC	IEEE 802.11ac WiFI (80 MHz, MCS8, 99pc dc)	WLAN	8.42	±9.6
10553	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc dc)	WLAN	8.45	±9.6
10554	AAC	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc dc)	WLAN	8.48	±9.6
10555	AAC	IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc dc)	WLAN	8.47	±9.6
10556	AAC	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc dc)	WLAN	8.50	±9.6
10557	AAC	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc dc)	WLAN	8.52	±9.6
10558	AAC	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc dc)	WLAN	8.61	±9.6
10560	AAC	IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc dc)	WLAN	8.73	±9.6
10561	AAC	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc dc)	WLAN	8.56	±9.6
10562	AAC	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc dc)	WLAN	8.69	±9.6
10563	AAC	IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc dc)	WLAN	8.77	±9.6
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	±9.6
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	±9.6
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	±9.6
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	±9.6
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	±9.6
10569	AAC	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	±9.6
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	±9.6
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	±9.6
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	±9.6
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	±9.6
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	±9.6
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	±9.6
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	±9.6
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	±9.6
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	±9.6
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	±9.6
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	±9.6
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	±9.6
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	±9.6
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	±9.6
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	±9.6
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	±9.6
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	±9.6
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	±9.6
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	±9.6
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	±9.6
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	±9.6
10591	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc dc)	WLAN	8.63	±9.6
10592	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc dc)	WLAN	8.79	±9.6
10593	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc dc)	WLAN	8.64	±9.6
10594	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc dc)	WLAN	8.74	±9.6
10595	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc dc)	WLAN	8.74	±9.6
10596	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc dc)	WLAN	8.71	±9.6
10597	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc dc)	WLAN	8.72	±9.6
10598	AAA	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc dc)	WLAN	8.50	±9.6
10599	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc dc)	WLAN	8.79	±9.6
10600	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc dc)	WLAN	8.88	±9.6
10601	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc dc)	WLAN	8.82	±9.6
10602	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc dc)	WLAN	8.94	±9.6
10603	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc dc)	WLAN	9.03	±9.6
10604	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc dc)	WLAN	8.76	±9.6
10605	AAA	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc dc)	WLAN	8.97	±9.6
	1 440	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc dc)	WLAN	8.82	±9.6
10606	AAC				
10606 10607 10608	AAC AAC AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc dc) IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc dc)	WLAN	8.64	±9.6

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10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc dc)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc dc)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WIFI (20 MHz, MCS4, 90pc dc)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WIFI (20 MHz, MCS5, 90pc dc)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc dc)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc dc)	WLAN	8.59	±9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc dc)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc dc)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 90pc dc)	WLAN	8.58	±9.6
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc dc)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc dc)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc dc)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc dc)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc dc)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc dc)	WLAN	8.96	±9.6
10625	AAC	IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc dc)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WIFI (80 MHz, MCS0, 90pc dc)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WIFi (80 MHz, MCS1, 90pc dc)	WLAN	8.88	±9.6
10628	AAC	IEEE 802.11ac WIFI (80 MHz, MCS2, 90pc dc)	WLAN	8.71	±9.6
10629	AAC	IEEE 802.11ac WIFi (80 MHz, MCS3, 90pc dc)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc dc)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc dc)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc dc)	WLAN	8.74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc dc)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc dc)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc dc)	WLAN	8.81	±9.6
10636	AAC	IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc dc)	WLAN	8.83	±9.6
10637	AAC	IEEE 802.11ac WIFi (160 MHz, MCS1, 90pc dc)	WLAN	8.79	±9.6
10638	AAC	IEEE 802.11ac WIFi (160 MHz, MCS2, 90pc dc)	WLAN	8.86	±9.6
10639	AAC	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc dc)	WLAN	8.85	±9.6
10640	AAC	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc dc)	WLAN	8.98	±9.6
10641	AAC	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc dc)	WLAN	9.06	±9.6
10642	AAC	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc dc)	WLAN	9.06	±9.6
10643	AAC	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc dc)	WLAN	8.89	±9.6
10644	AAC	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc dc)	WLAN	9.05	±9.6
10645	AAC	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc dc)	WLAN	9.11	±9.6
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	±9.6
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	±9.6
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAC	Pulse Waveform (200 Hz, 10%)	Test	10.00	±9.6
10659	AAC	Pulse Waveform (200 Hz, 20%)	Test	6.99	±9.6
10660	AAC	Pulse Waveform (200 Hz, 40%)	Test	3.98	±9.6
10661	AAC	Pulse Waveform (200 Hz, 60%)	Test	2.22	±9.6
10662	AAC	Pulse Waveform (200 Hz, 80%)	Test	0.97	±9.6
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAD	IEEE 802.11ax (20 MHz, MCS0, 90pc dc)	WLAN	9.09	±9.6
10672	AAD	IEEE 802.11ax (20 MHz, MCS1, 90pc dc)	WLAN	8.57	±9.6
10673	AAD	IEEE 802.11ax (20 MHz, MCS2, 90pc dc)	WLAN	8.78	±9.6
10674	AAD	IEEE 802.11ax (20 MHz, MCS3, 90pc dc)	WLAN	8.74	±9.6
10675	AAD	IEEE 802.11ax (20 MHz, MCS4, 90pc dc)	WLAN	8.90	±9.6
10676	AAD	IEEE 802.11ax (20 MHz, MCS5, 90pc dc)	WLAN	8.77	±9.6
10677	AAD	IEEE 802.11ax (20 MHz, MCS6, 90pc dc)	WLAN	8.73	±9.6
10678	AAD	IEEE 802.11ax (20 MHz, MCS7, 90pc dc)	WLAN	8.78	±9.6
10679	AAD	IEEE 802.11ax (20 MHz, MCS8, 90pc dc)	WLAN	8.89	±9.6
10680	AAD	IEEE 802.11ax (20 MHz, MCS9, 90pc dc)	WLAN	8.80	±9.6
10681	AAG	IEEE 802.11ax (20 MHz, MCS10, 90pc dc)	WLAN	8.62	±9.6
10682	AAF	IEEE 802.11ax (20 MHz, MCS11, 90pc dc)	WLAN	8.83	±9.6
10683	AAA	IEEE 802.11ax (20 MHz, MCS0, 99pc dc)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc dc)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc dc)	WLAN	8.33	±9,6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc dc)	WLAN	8.28	±9.6

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10687	AAE	IEEE 802.11ax (20 MHz, MCS4, 99pc dc)	WLAN	8.45	±9.6
10688	AAE	IEEE 802.11ax (20 MHz, MCS5, 99pc dc)	WLAN	8.29	±9.6
10689	AAD	IEEE 802.11ax (20 MHz, MCS6, 99pc dc)	WLAN	8.55	±9.6
10690	AAE	IEEE 802.11ax (20 MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6
10691 10692	AAB AAA	IEEE 802.11ax (20 MHz, MCS8, 99pc dc)	WLAN	8.25	±9.6
10692	AAA	IEEE 802.11ax (20 MHz, MCS9, 99pc dc)	WLAN	8.29	±9.6
10694	AAA	IEEE 802.11ax (20 MHz, MCS10, 99pc dc) IEEE 802.11ax (20 MHz, MCS11, 99pc dc)	WLAN	8.25	±9.6
10695	AAA	IEEE 802.11ax (20 MHz, MCS (1, 99pc dc)	WLAN	8.57	±9.6
10696	AAA	IEEE 802.11ax (40 MHz, MCS1, 90pc dc)	WLAN	8.78	±9.6
10697	AAA	IEEE 802.11ax (40 MHz, MCS2, 90pc dc)	WLAN WLAN	8.91	±9.6
10698	AAA	IEEE 802.11ax (40 MHz, MCS3, 90pc dc)	WLAN	8.61	±9.6 ±9.6
10699	AAA	IEEE 802.11ax (40 MHz, MCS4, 90pc dc)	WLAN	8.82	±9.6
10700	AAA	IEEE 802.11ax (40 MHz, MCS5, 90pc dc)	WLAN	8.73	±9.6
10701	AAA	IEEE 802.11ax (40 MHz, MCS6, 90pc dc)	WLAN	8.86	±9.6
10702	AAA	IEEE 802.11ax (40 MHz, MCS7, 90pc dc)	WLAN	8.70	±9.6
10703	AAA	IEEE 802.11ax (40 MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6
10704	AAA	IEEE 802.11ax (40 MHz, MCS9, 90pc dc)	WLAN	8.56	±9.6
10705	AAA	IEEE 802.11ax (40 MHz, MCS10, 90pc dc)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc dc)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc dc)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc dc)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc dc)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc dc)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc dc)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc dc)	WLAN	8.67	±9.6
10713 10714	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc dc)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc dc) IEEE 802.11ax (40 MHz, MCS8, 99pc dc)	WLAN	8.26	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc dc)	WLAN	8.45	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc dc)	WLAN WLAN	8.30	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc dc)	WLAN	8.48	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc dc)	WLAN	8.24	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc dc)	WLAN	8.87	±9.6 ±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc dc)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc dc)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc dc)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc dc)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc dc)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc dc)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc dc)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc dc)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc dc)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc dc)	WLAN	8.67	±9.6
10731 10732	AAC AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc dc)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc dc)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc dc) IEEE 802.11ax (80 MHz, MCS3, 99pc dc)	WLAN N	8.40	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc dc)	WLAN MAR AN	8.25	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS4, 990c dc)	WLAN WLAN	8.33	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc dc)	WLAN	8.27	±9.6 ±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc dc)	WLAN	8.30	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc dc)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc dc)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc dc)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc dc)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc dc)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc dc)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc dc)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc dc)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc dc)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc dc)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc dc)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc dc)	WLAN	8.79	±9.6
10751 10752	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc dc)	WLAN	8.82	±9.6
10702	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc dc)	WLAN	8.81	±9.6

ŲID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc dc)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc dc)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc dc)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc dc)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc dc)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc dc)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc dc)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc dc)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc dc)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc dc)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc dc)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc dc)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc dc)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc dc)	WLAN	8.51	±9.6
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAC	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	AAC	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	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792 10793	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796 10797	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801 10802	AAC AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
					100
10803		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
10805 10806	AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37	±9.6 ±9.6
10805 10806 10809	AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34	±9.6 ±9.6 ±9.6
10805 10806 10809 10810	AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34	+9.6 +9.6 +9.6 +9.6
10805 10806 10809 10810 10812	AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35	+9.6 +9.6 +9.6 +9.6 +9.6
10805 10806 10809 10810 10812 10817	AAD AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35 8.35	± 9.6 ± 9.6 ± 9.6 ± 9.6 ± 9.6 ± 9.6
10805 10806 10809 10810 10812 10817 10818	AAD AAD AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35 8.35 8.35 8.34	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10805 10806 10809 10810 10812 10817 10818 10819	AAD AAD AAD AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35 8.35 8.35 8.34 8.33	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10805 10806 10809 10810 10812 10817 10818 10819 10820	AAD AAD AAD AAD AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35 8.35 8.35 8.34 8.33 8.30	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6
10805 10806 10809 10810 10812 10817 10818 10819 10820 10821	AAD AAD AAD AAD AAD AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35 8.35 8.34 8.33 8.30 8.41	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10805 10806 10809 10810 10812 10817 10818 10819 10820 10821 10822	AAD AAD AAD AAD AAD AAD AAD AAD AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35 8.35 8.35 8.34 8.33 8.30 8.41 8.41	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6
10805 10806 10809 10810 10812 10817 10818 10819 10820 10821 10822 10823	AAD AAD AAD AAD AAD AAD AAD AAD AAD AAC AAD AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.34 8.35 8.35 8.35 8.34 8.33 8.30 8.41 8.41 8.36	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10805 10806 10809 10810 10812 10817 10818 10819 10820 10821 10822 10823 10824	AAD AAD AAD AAD AAD AAD AAD AAD AAD AAC AAD AAC AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.35 8.35 8.35 8.35 8.33 8.33 8.30 8.41 8.36 8.39	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6 +9.6
10805 10806 10809 10810 10812 10817 10818 10819 10820 10821 10822 10823 10824 10825	AAD AAD AAD AAD AAD AAD AAD AAD AAD AAC AAD AAC AAD AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.35 8.35 8.35 8.35 8.33 8.30 8.41 8.36 8.39 8.41	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10805 10806 10809 10810 10812 10817 10818 10819 10820 10821 10822 10823 10824	AAD AAD AAD AAD AAD AAD AAD AAD AAD AAC AAD AAC AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34 8.37 8.34 8.35 8.35 8.35 8.35 8.33 8.33 8.30 8.41 8.36 8.39	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E <i>k</i> = 2
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAE	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
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	AAE	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	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E <i>k</i> = 2
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	<u>+</u> 9.6
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9,6
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.6
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
10938 10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 KHz)	5G NR FR1 FDD	5.90	±9.6
10939	AAB AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10944	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10940	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 20MHz, QPSK, 15 KHz)	5G NR FR1 FDD	5.94	±9.6
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz)	5G NR FR1 FDD	5.87	±9.6
10951	AAB	5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 KHz)	5G NR FR1 FDD	5.92 8.25	±9.6
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD		±9.6
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.6
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 19 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 KHz)	5G NR FR1 FDD	8.42	±9.6
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 KHz)	5G NR FR1 FDD 5G NR FR1 FDD	8.14 8.31	±9.6
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 KHz)	5G NR FR1 FDD	8.61	±9.6 ±9.6
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6 ±9.6
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 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	9.32	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.30	±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	AAB	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.00	±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
	AAA	ULLA HDRp8	ULLA	1.44	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9,38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6

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

Calibration Laboratory of

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





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- **Swiss Calibration Service**

Accreditation No.: SCS 0108

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Element

Certificate No

EX-7570_Jan23

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:7570	
Calibration procedure(s)	QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6, QA CAL-25.v8 Calibration procedure for dosimetric E-field probes $330/20^{2}$	13
Calibration date	January 11, 2023	

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

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) ℃ 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
OCP DAK-3.5 (weighted)	SN: 1249	20-Oct-22 (OCP-DAK3.5-1249 Oct22)	Oct-23
OCP DAK-12	SN: 1016	20-Oct-22 (OCP-DAK12-1016_Oct22)	Oct-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	10-Oct-22 (No. DAE4-660_Oct22)	Oct-23
Reference Probe ES3DV2	SN: 3013	06-Jan-23 (No. ES3-3013 Jan23)	Jan-24

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

	Name	Function	Signature
Calibrated by	Jeffrey Katzman	Laboratory Technician	d. the
Approved by	Sven Kühn	Technical Manager	S_{-}
Issued: January 16, 2023 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

Calibration Laboratory of

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





S

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Swiss Calibration Service

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Glossary

TSL.	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	arphi rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization $\vartheta = 0$ ($f \le 900$ 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 ConvE.
- DCPx, y, z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- · PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- · ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \le 800 \text{ MHz}$) 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, v,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).

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (<i>k</i> = 2)
Norm (μ V/(V/m) ²) ^A	0.55	0.61	0.64	±10.1%
DCP (mV) ^B	101.3	100.8	101.5	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		Α	В	С	D	VR	Max	Max
			dB	dBõV		dB	m۷	dev.	Unc ^E
									k = 2
0	CW	X	0.00	0.00	1.00	0.00	172.3	±2.5%	±4.7%
		Y	0.00	0.00	1.00		157.4		
		Z	0.00	0.00	1.00		162.1		
10352	Pulse Waveform (200Hz, 10%)	X	3.35	68.46	11.31	10.00	60.0	±3.7%	±9.6%
		Y	20.00	90.13	19.79		60.0		
		Z	20.00	88.80	19.40		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	3.19	69.82	11.03	6.99	80.0	±2.6%	±9.6%
		Y	20.00	92.37	19.80		80.0		
		Ż	20.00	88.98	18.66		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	18.18	84.05	14.24	3.98	95.0	±1.5%	±9.6%
		Y	20.00	92.84	18.62		95.0		
		Z	20.00	90.78	18.41		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	85.07	13.61	2.22	120.0	±1.0%	±9.6%
		Y	20.00	91.87	16.88	ĺ	120.0		
		Z	20.00	93.15	18.39	ĺ	120.0		
10387	QPSK Waveform, 1 MHz	X	1.56	67.46	14.95	1.00	150.0	±3.0%	±9.6%
		Y	1.47	64.66	13.53	1	150.0		
		Z	1.59	65.65	14.48	1	150.0	1	
10388	QPSK Waveform, 10 MHz	X	2.06	67.85	15.64	0.00	150.0	±1.1%	±9.6%
		Y	1.98	66.25	14.45		150.0	1	
		Z	2.11	67.34	15.24	1	150.0		
10396	64-QAM Waveform, 100 kHz	X	2.39	68.73	18.22	3.01	150.0	±0.8%	±9.6%
		Y	2.56	68.43	17.61		150.0	1	
		Z	3.10	72.05	19.46	1	150.0]
10399	64-QAM Waveform, 40 MHz	X	3.40	67.10	15.74	0.00	150.0	±2.1%	±9.6%
		Y	3.36	66.45	15.18	1	150.0	1	
		Z	3.44	66.88	15.54	1	150.0	1	
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.68	65.81	15.59	0.00	150.0	±3.8%	±9.6%
		Y	4.76	65.50	15.29	-	150.0	1	
		Z	4.80	65.59	15.42	1	150.0	1	

Note: For details on UID parameters see Appendix

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

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

^B Linearization parameter uncertainty for maximum specified field strength. ^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V ^{−2}	T5 V ⁻¹	Т6
х	31.8	235.56	35.07	13.39	0.00	5.02	0.79	0.14	1.01
у	40.5	302.05	35.29	12.28	0.00	5.10	0.67	0.27	1.01
z	43.2	318.85	34.76	22.53	0.00	5.08	1.70	0.14	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	136.7°
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 Dlameter	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.

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	41.9	0.89	10.29	10.29	10.29	0.36	1.01	±12.0%
835	41.5	0.90	9.92	9.92	9.92	0.52	0.80	±12.0%
1750	40.1	1.37	8.60	8.60	8.60	0.44	0.86	±12.0%
1900	40.0	1.40	8.28	8.28	8.28	0.40	0.86	±12.0%
2300	39.5	1.67	7.95	7.95	7.95	0.43	0.90	±12.0%
2450	39.2	1.80	7.55	7.55	7.55	0.46	0.90	±12.0%
2600	39.0	1.96	7.26	7.26	7.26	0.42	0.90	±12.0%
5250	35.9	4.71	5.52	5.52	5.52	0.40	1.80	±14.0%
5600	35.5	5.07	4.84	4.84	4.84	0.40	1.80	±14.0%
5750	35.4	5.22	4.92	4.92	4.92	0.40	1.80	±14.0%
5850	35.2	5.32	4.78	4.78	4.78	0.40	1.80	±14.0%

Calibration Parameter Determined in Head Tissue Simulating Media

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

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

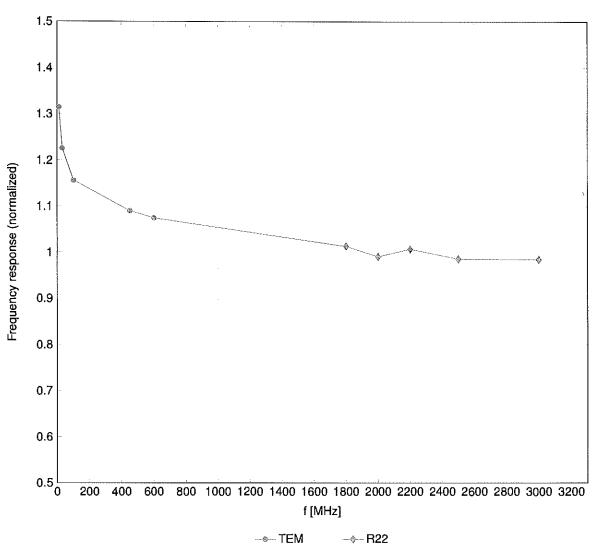
Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
750	55.5	0.96	10.26	10.26	10.26	0.54	0.80	±12.0%
835	55.2	0.97	9.94	9.94	9.94	0.36	0.98	±12.0%
1750	53.4	1.49	8.54	8.54	8.54	0.34	0.86	±12.0%
1900	53.3	1.52	8.18	8.18	8.18	0.36	0.86	±12.0%
2300	52.9	1.81	7.74	7.74	7.74	0.40	0.90	±12.0%
2450	52.7	1.95	7.69	7.69	7.69	0.37	0.90	±12.0%
2600	52.5	2.16	7.44	7.44	7.44	0.26	0.90	±12.0%
5250	48.9	5.36	4.89	4.89	4.89	0.50	1.90	±14.0%
5600	48.5	5.77	4.33	4.33	4.33	0.50	1.90	±14.0%
5750	48.3	5.94	4.39	4.39	4.39	0.50	1.90	±14.0%
5850	48.1	6.06	4.30	4.30	4.30	0.50	1.90	±14.0%

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is $\pm 10, 25, 40, 50$ and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz. ^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for e and σ by less than $\pm 5\%$ from the target values (typically better than $\pm 3\%$)

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

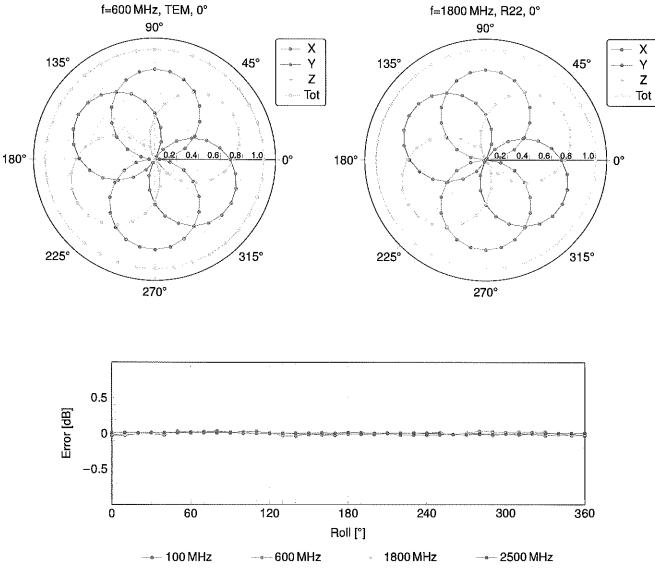
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than $\pm 1\%$ for frequencies below 3 GHz and below $\pm 2\%$ for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter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



Frequency Response of E-Field

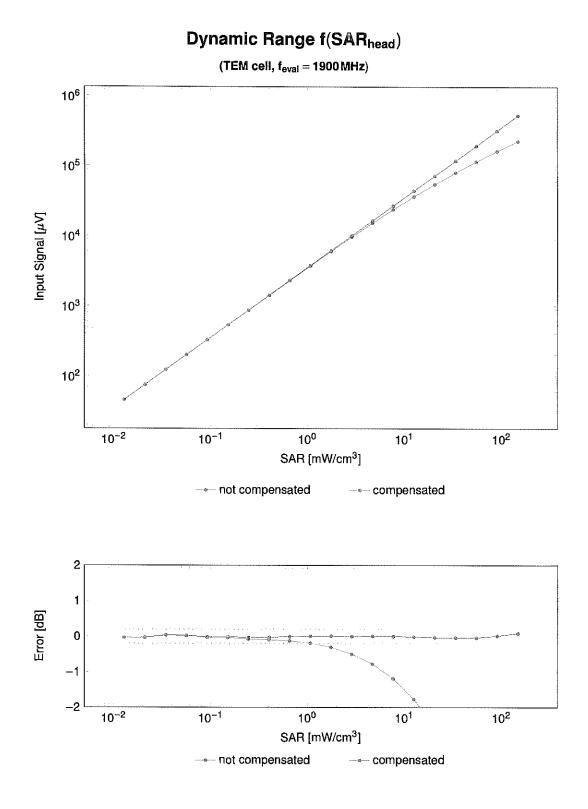
(TEM-Cell:ifi110 EXX, Waveguide:R22)

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



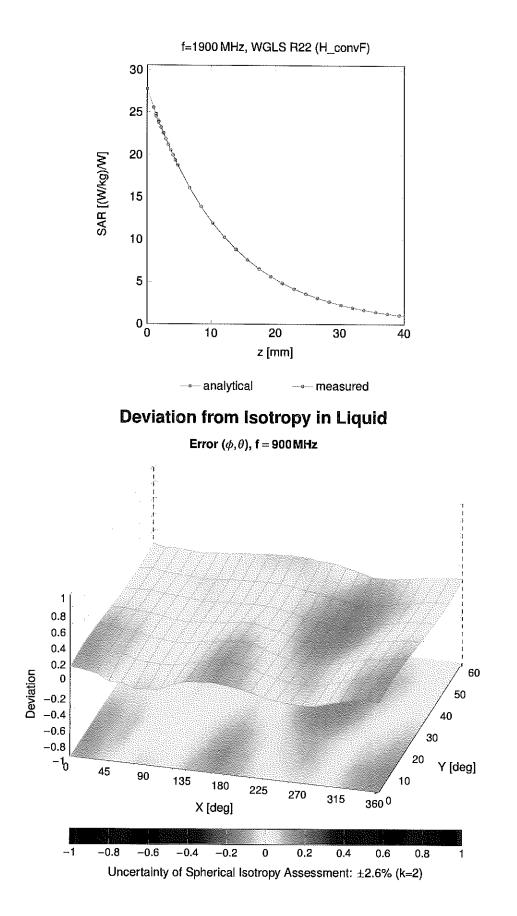
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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



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

Conversion Factor Assessment



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±4.7
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.39	±9.6
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)			±9.6
10024	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	6.56	±9.6
10025	DAC		GSM	12.62	±9.6
10020	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6
10027		GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6
1	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
10059	CAB	IEEE 802.11b WiFI 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.12	f
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mibps)			±9.6
10062	CAD		WLAN	3.60	±9.6
		IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
10063	CAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
10065	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6
10066	CAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073	CAB	IEEE 802.11g WIFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
10074	CAB	IEEE 802.11g WIFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6
10098	CAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10102	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6
10103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD		
10104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)		9.97	±9.6
10105	!		LTE-TDD	10.01	±9.6
	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6
10109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6
10111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6

10112 CAH LIFE FOD (CO-FUNAL 100% RB, 50Hk, 64-OAM) THE FOD 65.62 43.63 10113 CAH LIFE FOD (CO-FUNAL 100% RB, 50Hk, 64-OAM) UIE FOD 65.64 43.65 10115 CAD LEEE 602.11 (HT Greenfield, 15.85 Mbp, 64-OAM) WLAN 8.46 43.65 10116 CAD LEEE 602.11 (HT Greenfield, 15.85 Mbp, 64-OAM) WLAN 8.37 25.65 10116 CAD LEEE 802.11 (HT Greenfield, 13.85 Mbp, 64-OAM) WLAN 8.37 25.66 10116 CAD LEEE 802.11 (HT Moud, 13.85 Mbp, 16-OAM) WLAN 8.37 25.66 10116 CAD LEEE 802.11 (HT Moud, 13.85 Mbp, 16-OAM) WLAN 8.33 4.85 10141 CAP THE FOD (CO-FOAM, 100%, RB, 19MH, 16-OAM) UTE FOD 6.53 4.85 10141 CAP THE FOD (CO-FOAM, 100%, RB, 19MH, 16-OAM) UTE FOD 6.53 4.85 10141 CAP THE FOD (CO-FOAM, 100%, RB, 19MH, 16-OAM) UTE FOD 6.53 4.85 10141 CAP THE FOD (CO-FOAM, 100%, RB, 19MH, 16-OAM) UTE	UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
19113 CAH LIFE/DD (SCF/DMA, 100% RB, SMRE, 64 CAM) LIFE/DD 66.20 1956 19114 CAD EEE 802.11 (MT Groenfield, SI Mapp, 16 CAM) WLAN 8.40 156.6 19115 CAD EEE 802.11 (MT Groenfield, SI Mapp, 16 CAM) WLAN 8.15 126.6 19116 CAD EEE 802.11 (MT Groenfield, SI Mapp, 16 CAM) WLAN 8.57 135.6 19116 CAD EEE 802.11 (MT Mood, 3I Mapp, 16 CAM) WLAN 8.13 145.6 19116 CAD EEE 802.11 (MT Mood, 3I Mapp, 16 CAM) UTE FD0 6.43 4.66 19141 CAP IEEE 802.11 (MT Mood, 3I Mapp, 16 CAM) UTE FD0 6.43 4.66 19142 CAP UTE FD0 (SC FDDM, 100% FB, 3MLF, 16 CAM) UTE FD0 6.43 4.66 19144 CAP UTE FD10 (SC FDMA, 100% FB, 3MLF, 4C CAM) UTE FD10 6.42 4.86 19145 CAP UTE FD10 (SC FDMA, 50% FB, 3 MLF, 4C CAM) UTE FD10 6.42 4.86 19146 CAP UTE FD10 (SC FDMA, 50% FB, 3 MLF, 4C CAM) UTE FD10	10112					· · · · · · · · · · · · · · · · · · ·
1914 CAD LEE 80.21 In (FT Growthus). TSS Maps, 64 CAA) WLAN 8.60 486 1016 CAD EEE 80.21 In (FT Growthus). TSS Maps, 64 CAA) WLAN 8.61 486 1017 CAD EEE 80.21 In (FT Growthus). TSS Maps, 64 CAA) WLAN 8.62 10.66 1016 CAD EEE 80.21 In (FT Growthus). TSS Maps, 64 CAA) WLAN 8.63 4.66 1016 CAD EEE 80.21 In (FT Madd, 15 Maps, 16 CAA) WLAN 8.13 10.66 1016 CAD EEE 80.21 In (FT Madd, 15 Maps, 16 CAA) UTE+7DD 6.43 4.56 1016 CAF ITE+7DD (6C+7DMA, 100%; RE 15 Mars, 16 CAA) UTE+7DD 6.53 4.56 1016 CAF ITE+7DD (6C+7DMA, 100%; RE 15 Mars, 16 CAA) UTE+7DD 6.53 4.56 1016 CAF ITE+7DD (6C+7DMA, 100%; RE 15 Mars, 16 CAA) UTE+7DD 6.56 4.56 1016 CAF ITE+7DD (6C+7DMA, 100%; RE 15 Mars, 16 CAA) UTE+7DD 6.56 4.56 1016 CAF ITE+7DD (6C+7DMA, 100%; RE 15 Mars, 16 CAA) UTE+7DD 6.56 4.56 1016 CAF ITE+7DD (6C+7DMA, 50%; RE 15 Mars, 16 CAA) UTE+7DD 6.	10113	CAH				
10115 CAD IEEE 802.11 HIT Greenfield, St Mape, 16 GAM9, WLAN 8.46 ±565 10117 CAD IEEE 802.11 HIT Made, 13 SMape, 16 GAM9, WLAN 8.47 ±565 10116 CAD IEEE 802.11 HIT Made, 13 SMape, 16 GAM9, WLAN 8.48 ±565 10116 CAD IEEE 802.11 HIT Made, 13 SMape, 16 GAM9, WLAN 8.43 ±565 10141 CAD IEEE 802.11 HIT Made, 15 SMape, 16 GAM9, UIE +700 6.43 ±565 10141 CAF IEE-700 (SC-FDMA, 1007k RB, 1844, 16 GAM9, UIE +700 6.53 ±565 10142 CAF UIE +700 (SC-FDMA, 1007k RB, 1844, 6 GAM), UIE +700 6.56 ±566 10143 CAF UIE +700 (SC-FDMA, 1007k RB, 1444, GPSK), UIE +700 5.73 ±566 10146 CAF UIE +700 (SC-FDMA, 1007k RB, 1444, GPSK), UIE +700 5.44 ±66 10146 CAF UIE +700 (SC-FDMA, 1007k RB, 1444, GPSK), UIE +700 5.42 ±66 10146 CAF UIE +700 (SC-FDMA, 1007k RB, 1444, GPSK), UIE +700	10114	CAD				
10116 CAD IEEE 0021 (nr) Kinked, 135 Mbpg, 64-CAM) WLAN 8.76 1956 10117 CAD IEEE 0021 (nr) Kinked, 135 Mbpg, 16-CAM) WLAN 8.77 15.66 10119 CAD IEEE 0021 (nr) Kinked, 135 Mbpg, 16-CAM) WLAN 8.13 4.56 10119 CAD IEEE 0021 (nr) Kinked, 135 Mbpg, 16-CAM) UTE-FDD 8.49 4.56 10110 CAF ITE-FDD 6.57 4.56 1.56 1.56 4.56 1.56 10141 CAF ITE-FDD 6.57.61 4.56 1.56	10115	CAD				
10117 CAD IEEE 80.211 (n (TM Kined, 31 Kkpp, 16 CAM) WLAN 6.97 4.86 10118 CAD IEEE 80.211 (n (TM Kined, 31 Kkpp, 16 CAM) WLAN 5.99 19.66 10116 CAP IEEE 80.211 (n (TM Kined, 31 Kkpp, 16 CAM) UTE-FDD 6.49 4.96 10141 CAP ITE-FDD 6.54 19.66 19.66 19.66 19.67 19.67 19.66 19.6	10116	CAD				
10118 CAD IEEE 802.11 (HT Noed, 31 Mupp, 46 CAM) WLAN 8.93 1.96 10119 CAD IEEE 802.11 (HT Noed, 35 Mupp, 46 CAM) UTE-FDD 6.43 3.96 10140 CAF ITE-FDD 6.53 4.96 10141 CAF ITE-FDD 6.53 4.96 10142 CAF ITE-FDD 6.53 5.96 10142 CAF ITE-FDD 6.55 5.96 10145 CAF ITE-FDD 6.573 5.96 10145 CAF ITE-FDD 6.573 5.96 10145 CAG ITE-FDD 6.574 5.96 10146 CAF ITE-FDD 6.572 5.96 10146 CAF ITE-FDD 6.52 5.96 10156 CAH ITE-FDD	10117	CAD				
10119 CAD IEEE 802.11 (n [HT Kined. 138 Mips, 64-CMM) ITE FDD 6.49 9.96 10140 CAF ITE FDD. (56 FDM, 1009; RB, 15MHz, 64-CMM) ITE FDD 5.63 256 10142 CAF ITE FDD. (56 FDM, 1009; RB, 15MHz, 0FRM) ITE FDD 5.73 9.90 10143 CAF ITE FDD. (56 FDM, 1009; RB, 15MHz, 0FRM) ITE FDD 6.66 19.66 10144 CAF ITE FDD. (56 FDM, 1009; RB, 14MHz, 0FRM) ITE FDD 6.64 19.66 10145 CAG ITE FDD. (56 FDM, 1009; RB, 14MHz, 0FRM) ITE FDD 6.44 19.66 10146 CAG ITE FDD. (56 FDM, 1009; RB, 14MHz, 0FAM) ITE FDD 6.42 19.66 10147 CAF ITE FDD. (56 FDM, 507; RB, 20MHz, 64 CMM) ITE FDD 5.64 2.96 10158 CAH ITE FDD. (56 FDM, 507; RB, 20MHz, 64 CMM) ITE FDD 5.76 2.96 10158 CAH ITE FDD. (56 FDM, 507; RB, 20MHz, 64 CMM) ITE FDD 5.76 2.96 10158 CAH ITE FDD. (56 FDM, 507; RB, 20MHz, 64 CMM) ITE FDD </td <td>10118</td> <td>CAD</td> <td></td> <td></td> <td></td> <td></td>	10118	CAD				
10140 CAF LTE-FDD 6.40 9.66 10141 CAF LTE-FDD 6.53 9.66 10142 CAF LTE-FDD 6.53 9.66 10142 CAF LTE-FDD 6.55 9.66 10142 CAF LTE-FDD 6.55 9.66 10145 CAF LTE-FDD 6.55 9.66 10146 CAF LTE-FDD 6.56 9.66 10146 CAF LTE-FDD 6.57 9.56 10146 CAG LTE-FDD 6.57 9.56 10146 CAG LTE-FDD 6.57 9.56 10146 CAF LTE-FDD 6.56 9.56 10150 CAF LTE-FDD 6.57 9.56 10161 CAF LTE-FDD 6.57 9.56 10150 CAF LTE-FDD 6.57 9.56 10150 CAF LTE-FDD 6.56 9.56 10150 CAF <td< td=""><td>10119</td><td>CAD</td><td>IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)</td><td></td><td></td><td></td></td<>	10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)			
10141 CAP LTE-FDD 05:CP 5:03 -5:03 10142 CAP LTE-FDD 05:CP 5:03 -5:03 -5:03 10142 CAP LTE-FDD 05:CP 5:03 -5:03 -5:03 10144 CAP LTE-FDD 05:CP -5:03 -5:03 10145 CAD LTE-FDD 05:CP -5:03 -5:03 10146 CAD LTE-FDD 05:CP -5:03 -5:03 10156 CAH LTE-FDD 05:CP -5:04 -5:05 10156 CAH LTE-FDD 05:CP -5:05 -5:05 10156 CAH LTE-FDD 05:CP -5:05 -5:05 10156 CAH LTE-FDD 05:CP -5:0	10140	CAF				
10142 CAP LTE-FDD (SC-FDM, 100%, RB, 3MR2, 10-XM) LTE-FDD 6.73 ±5.63 10144 CAP LTE-FDD (SC-FDM, 100%, RB, 3MR2, 10-XM) LTE-FDD 6.76 19.54 10145 CAP LTE-FDD (SC-FDM, 100%, RB, 14-MH2, 10-SAN) LTE-FDD 6.76 19.55 10146 CAO LTE-FDD (SC-FDM, 100%, RB, 14-MH2, 10-SAN) LTE-FDD 6.74 19.55 10147 CAO LTE-FDD (SC-FDM, 100%, RB, 14-MH2, 10-SAN) LTE-FDD 6.72 19.56 10147 CAO LTE-FDD (SC-FDM, 50%, RB, 20-MH2, 40-SAN) LTE-FDD 6.64 19.86 10150 CAP LTE-FDD (SC-FDM, 50%, RB, 20-MH2, 40-SAN) LTE-FDD 6.76 19.56 10152 CAH LTE-FDD (SC-FDM, 50%, RB, 20-MH2, 40-SAN) LTE-FDD 6.76 19.56 10152 CAH LTE-FDD (SC-FDM, 50%, RB, 20-MH2, 40-SAN) LTE-FDD 6.76 19.56 10152 CAH LTE-FDD (SC-FDM, 50%, RB, 20-MH2, 40-SAN) LTE-FDD 6.76 19.56 10152 CAH LTE-FDD (SC-FDM, 50%, RB, 10-MH2, 40-SAN) L	10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)			
10148 CAP LTF-FD0 (SG-FDM, 100Y, RB, 3MR, 46-CAM) LTF-FD0 6.66 19.65 10144 CAP LTF-FD0 (SG-FDM, 100Y, RB, 3MR, 46-CAM) LTF-FD0 5.76 19.58 10146 CAO LTF-FD0 (SG-FDM, 100Y, RB, 14.MH2, 16-CAM) LTF-FD0 6.474 19.58 10147 CAO LTF-FD0 (SG-FDM, 100Y, RB, 14.MH2, 16-CAM) LTF-FD0 6.46 19.68 10149 CAO LTF-FD0 (SG-FDM, 50Y, RB, 20.MH2, 16-CAM) LTF-FD0 6.60 19.6 10152 CAP LTF-FD0 (SG-FDM, 50Y, RB, 20.MH2, 16-CAM) LTF-FD0 9.32 19.6 10152 CAP LTF-FD0 (SG-FDM, 50Y, RB, 20.MH2, 16-CAM) LTF-FD0 9.32 19.6 10154 CAP LTF-FD0 (SG-FDM, 50Y, RB, 10.MH2, 0FSG) LTF-FD0 5.76 19.6 10154 CAP LTF-FD0 (SG-FDM, 50Y, RB, 10.MH2, 0FSG) LTF-FD0 5.76 19.6 10155 CAP LTF-FD0 (SG-FDM, 50Y, RB, 50.MH2, 0FAM) LTF-FD0 5.76 19.6 10156 CAP LTF-FD0 (SG-FDM, 50Y, RB, 50.MH2, 0FAM) LTF-FD0	10142	CAF				
10144 CAR LTF-FD0 (SC-FDMA, 100%, RB, 14MF2, 0FSM) LTF-FD0 5.76 ±9.66 10145 CAG LTF-FD0 (SC-FDMA, 100%, RB, 14MF2, 0FSM) LTF-FD0 6.74 ±9.66 10146 CAG LTF-FD0 (SC-FDMA, 100%, RB, 14MF2, 0FCAM) LTF-FD0 6.74 ±9.66 10147 CAG LTF-FD0 (SC-FDMA, 100%, RB, 14MF2, 0FCAM) LTF-FD0 6.76 ±9.66 10150 CAF LTF-FD0 (SC-FDMA, 50% RB, 20MF2, 0FCAM) LTF-FD0 6.76 ±9.66 10151 CAH LTF-FD0 (SC-FDMA, 50% RB, 20MF2, 0FCAM) LTF-FD0 9.28 ±9.66 10152 CAH LTF-FD0 (SC-FDMA, 50% RB, 20MF2, 0FCAM) LTF-FD0 9.28 ±9.66 10152 CAH LTF-FD0 (SC-FDMA, 50% RB, 10MF2, 0FCAM) LTF-FD0 6.76 ±9.66 10153 CAH LTF-FD0 (SC-FDMA, 50% RB, 10MF2, 0FCAM) LTF-FD0 6.76 ±9.66 10154 CAH LTF-FD0 (SC-FDMA, 50% RB, 10MF2, 0FCAM) LTF-FD0 6.76 ±9.66 10155 CAH LTF-FD0 (SC-FDMA, 50% RB, 10MF2, 0FCAM) LTF-FD0	10143	CAF				
10146 CAG LTF-FDD 5-76 19.6 10146 CAG LTF-FDD 6-71 19.6 10147 CAG LTF-FDD 6-72 19.6 10149 CAG LTF-FDD 6-72 19.6 10149 CAG LTF-FDD 6-72 19.6 10151 CAH LTF-FDD 6-72 19.6 10152 CAH LTF-FDD 6-70 8.52 19.6 10152 CAH LTF-FDD (SC-FDMA, 50% RB, 20.4Hz, 16-CAM) LTFF-FDD 6.42 19.6 10154 CAH LTF-FDD (SC-FDMA, 50% RB, 20.4Hz, 16-CAM) LTFF-FDD 6.43 19.6 10155 CAH LTFF-FD (SC-FDMA, 50% RB, 10.4Hz, 16-CAM) LTFF-FDD 6.44 19.6 10155 CAH LTFF-FD (SC-FDMA, 50% RB, 10.4Hz, 16-CAM) LTFFFD (SC-FDMA, 50% RB, 10.4Hz, 16-CAM) LTFFFD (SC-FDMA, 50% RB, 10.4Hz, 16-CAM)	10144	CAF				
10140 CAG LTF-FDD (GC-FDMA, 1005; RB, 1.4 AH/L, 16-QAM) LTF-FDD 6.47 19.63 10147 CAG LTF-FDD (GC-FDMA, 507; RB, 20 MHZ, 16-QAM) LTF-FDD 6.42 19.63 10150 CAF LTF-FDD (GC-FDMA, 507; RB, 20 MHZ, 16-QAM) LTFF-FDD 6.42 19.63 10151 CAF LTF-FDD (GC-FDMA, 507; RB, 20 MHZ, 16-QAM) LTFF-TDD 8.62 14.63 10152 CAH LTF-FDD (GC-FDMA, 507; RB, 20 MHZ, 16-QAM) LTFF-TDD 10.05 14.86 10152 CAH LTF-FDD (GC-FDMA, 507; RB, 20 MHZ, 16-QAM) LTFF-TDD 5.75 49.6 10153 CAH LTFF-FDD (GC-FDMA, 507; RB, 50 MHZ, 16-QAM) LTFF-FDD 6.42 49.6 10156 CAH LTFF-FDD (GC-FDMA, 507; RB, 50 MHZ, 16-QAM) LTFF-FDD 6.42 49.6 10156 CAH LTFF-FD (GC-FDMA, 507; RB, 50 MHZ, 64-QAM) LTFF-FDD 6.42 49.6 10166 CAF LTFF-FD (GC-FDMA, 507; RB, 50 MHZ, 64-QAM) LTFF-FDD 6.43 49.6 10167 LTFF FDD (GC-FDMA, 507; RB, 50 MHZ, 64-QAM)	10145	CAG				
10147 CAG LTE-FDD 6.72 -9.6 10149 CAE LTE-FDD 6.42 19.6 10150 CAF LTE-FDD 6.42 19.6 10151 CAH LTE-FDD 6.60 19.6 10151 CAH LTE-TDD (SC-FDMA, 50% RB, 20.MHz, (4-CAM) LTE-TDD 9.28 19.6 10152 CAH LTE-TDD (SC-FDMA, 50% RB, 20.MHz, (4-CAM) LTE-TDD 10.05 19.6 10154 CAH LTE-TDD (SC-FDMA, 50% RB, 20.MHz, (4-CAM) LTE-FDD 6.43 19.6 10155 CAH LTE-FDD (SC-FDMA, 50% RB, 50.MHz, (4-CAM) LTE-FDD 6.43 19.6 10156 CAH LTE-FDD (SC-FDMA, 50% RB, 50.MHz, (4-CAM) LTE-FDD 6.44 19.6 10157 CAH LTE-FDD (SC-FDMA, 50% RB, 50.MHz, (4-CAM) LTE-FDD 6.42 19.6 10168 CAH LTE-FDD (SC-FDMA, 50% RB, 50.MHz, (4-CAM) LTE-FDD 6.42 19.6 10169 CAH LTE-FDD (SC-FDMA, 50% RB, 50.MHz, (4-CAM) LTE-FDD 6.42 19.6 <td>10146</td> <td>CAG</td> <td></td> <td></td> <td> · · · · · · · · · · · · · · · · · ·</td> <td></td>	10146	CAG			· · · · · · · · · · · · · · · · · ·	
10149 CAF LTE-FDD 6.42 1.96 10150 CAF LTE-FDD 6.40 1.96 101510 CAF LTE-FDD 6.60 1.96 10152 CAH LTE-FDD 9.28 1.96 10152 CAH LTE-FDD 9.28 1.96 10152 CAH LTE-FDD 6.60 1.96 10153 CAH LTE-FDD 6.75 1.96 10154 CAH LTE-FDD 6.77 1.96 10155 CAH LTE-FDD 6.77 1.96 10156 CAH LTE-FDD 6.77 4.96 10157 CAH LTE-FDD 6.78 1.96 10160 CAH LTE-FDD 6.62 1.96 10161 CAF LTE-FDD 6.58 1.96 10160 CAF LTE-FDD 6.58 1.96 10161 CAF LTE-FDD 6.58 1.96 10161 CAF <t< td=""><td>10147</td><td>CAG</td><td></td><td></td><td></td><td></td></t<>	10147	CAG				
10150 CAF LTE-TDD 6.60 -9.6 10151 CAH LTE-TDD 9.28 4.9.6 10152 CAH LTE-TDD 9.28 4.9.6 10152 CAH LTE-TDD 9.28 4.9.6 10152 CAH LTE-TDD 9.28 4.9.6 10154 CAH LTE-TDD 10.65 1.9.6 10154 CAH LTE-TDD 10.65 1.9.6 10155 CAH LTE-FDD 6.43 1.9.6 10156 CAH LTE-FDD 6.43 1.9.6 10157 CAH LTE-FDD 6.49 4.9.6 10157 CAH LTE-FDD 6.57 4.9.6 10159 CAH LTE-FDD 6.58 1.9.6 10160 CAF LTE-FDD 6.44 4.9.6 10160 CAF LTE-FDD 6.43 4.9.6 10160 CAF LTE-FDD 6.43 4.9.6 10160 CAF<	10149	CAF				
10151 CAH LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) 10152 CAH LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM) LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-OAM) LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 16-OAM) LTE-FDD (SC-FDMA, 18, 20 MHz, QFSK) LTE-FDD (SC	10150	CAF				
10152 CAH LTE-TDD Sol Her 10153 CAH LTE-DD Sol Her Her Sol Her Her <t< td=""><td>10151</td><td>CAH</td><td></td><td></td><td>- · · · · · · · · · · · · · · · · · · ·</td><td></td></t<>	10151	CAH			- · · · · · · · · · · · · · · · · · · ·	
10153 CAH LTE-FDD 10.05 1.96 10154 CAH LTE-FDD 5.75 3.96 10155 CAH LTE-FDD 5.75 3.96 10155 CAH LTE-FDD 5.76 3.96 10155 CAH LTE-FDD 5.77 4.96 10156 CAH LTE-FDD 5.79 4.96 10156 CAH LTE-FDD 5.79 4.96 10156 CAH LTE-FDD 5.79 4.96 10150 CAH LTE-FDD 5.79 4.96 10160 CAF LTE-FDD 5.82 4.96 10160 CAF LTE-FDD 5.82 4.96 10161 CAF LTE-FDD 5.78 4.96 10162 CAF LTE-FDD 5.86 9.8 10161 CAF LTE-FDD 5.86 9.8 10166 CAG LTE-FDD 5.86 4.96 10172 CAH	10152	CAH				
10154 CAH LTE-FDD (SC-FDMA, 595% RB, 10MHz, 6PGAM) LTE-FDD 5.75 19.66 10155 CAH LTE-FDD (SC-FDMA, 595% RB, 5MHz, GPSK) LTE-FDD 6.49 19.66 10156 CAH LTE-FDD (SC-FDMA, 595% RB, 5MHz, GPSK) LTE-FDD 6.49 19.86 10156 CAH LTE-FDD (SC-FDMA, 505% RB, 5MHz, 6C-AM) LTE-FDD 6.56 19.66 10160 CAF LTE-FDD (SC-FDMA, 505% RB, 5MHz, 6C-AM) LTE-FDD 6.58 19.66 10161 CAF LTE-FDD (SC-FDMA, 505% RB, 5MHz, 6C-AM) LTE-FDD 6.43 19.66 10162 CAF LTE-FDD (SC-FDMA, 505% RB, 15 MHz, 16-CAM) LTE-FDD 6.43 19.66 10162 CAF LTE-FDD (SC-FDMA, 505% RB, 1.4 MHz, 16-CAM) LTE-FDD 6.46 19.66 10168 CAG LTE-FDD (SC-FDMA, 505% RB, 1.4 MHz, 16-CAM) LTE-FDD 6.73 19.66 10170 CAF LTE-FDD (SC-FDMA, 189% 20 MHz, 16-CAM) LTE-FDD 6.73 19.66 10170 CAF LTE-FDD (SC-FDMA, 189% 20 MHz, 16-CAM) LTE-FDD	10153	CAH				
10155 CAH LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-CAM) LTE-FDD 6.43 1.96 10156 CAH LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-CAM) LTE-FDD 6.49 9.6 10157 CAH LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-CAM) LTE-FDD 6.62 1.96 10158 CAH LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-CAM) LTE-FDD 6.82 1.96 10160 CAF LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 6F-CAM) LTE-FDD 6.82 1.96 10161 CAF LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 6F-CAM) LTE-FDD 6.82 1.96 10162 CAF LTE-FDD (SC-FDMA, 50% RB, 16 MHz, 6F-CAM) LTE-FDD 6.84 1.96 10163 CAG LTE-FDD (SC-FDMA, 50% RB, 16 MHz, 0FSK) LTE-FDD 6.79 1.96 10164 CAG LTE-FDD (SC-FDMA, 189% 20 MHz, 16-CAM) LTE-FDD 6.79 1.96 10166 CAG LTE-FDD (SC-FDMA, 189, 20 MHz, 0FSK) LTE-FDD 6.79 1.96 10176 CAH LTE-FDD (SC-FDMA, 178, 20 MHz, 0FSA) LTE-FDD 6.22 <td>10154</td> <td>CAH</td> <td></td> <td></td> <td></td> <td></td>	10154	CAH				
10150 CAH LTE-FDD (SC-FDMA, 59% BB, SMHz, (2-DAM) LTE-FDD 5.79 4.96 10157 CAH LTE-FDD (SC-FDMA, 50% BB, SMHz, (4-DAM) LTE-FDD 6.49 4.9.6 10158 CAH LTE-FDD (SC-FDMA, 50% BB, SMHz, (4-DAM) LTE-FDD 6.56 4.9.6 10169 CAH LTE-FDD (SC-FDMA, 50% BB, SMHz, (4-DAM) LTE-FDD 6.52 4.9.6 10160 CAF LTE-FDD (SC-FDMA, 50% BB, SMHz, (4-DAM) LTE-FDD 6.82 4.9.6 10161 CAF LTE-FDD (SC-FDMA, 50% BB, 15 MHz, (4-DAM) LTE-FDD 6.48 4.9.6 10162 CAF LTE-FDD (SC-FDMA, 50% BB, 1.4 MHz, DPSK) LTE-FDD 6.46 4.9.6 10162 CAF LTE-FDD (SC-FDMA, 50% BB, 1.4 MHz, G-CAM) LTE-FDD 6.73 4.9.6 10166 CAF LTE-FDD (SC-FDMA, 1B, 20 MHz, 16-CAM) LTE-FDD 6.73 4.9.6 10170 CAF LTE-FDD (SC-FDMA, 1B, 20 MHz, 16-CAM) LTE-FDD 6.73 4.9.6 10171 CAF LTE-FDD (SC-FDMA, 1B, 20 MHz, 16-CAM) LTE-FDD <td< td=""><td>10155</td><td>CAH</td><td></td><td></td><td>· • · · · · · · · · · · · · · · · · · ·</td><td></td></td<>	10155	CAH			· • · · · · · · · · · · · · · · · · · ·	
10167 CAH LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-OAM) LTE-FDD 6.49 19.6 10158 CAH LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-OAM) LTE-FDD 6.52 19.6 10159 CAH LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-OAM) LTE-FDD 6.58 19.6 10161 CAF LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-FDD 6.43 19.8 10162 CAF LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-FDD 6.58 19.6 10162 CAF LTE-FDD (SC-FDMA, 50% RB, 14MHz, 16-OAM) LTE-FDD 6.79 19.6 10163 CAG LTE-FDD (SC-FDMA, 188, 14MHz, 16-OAM) LTE-FDD 6.79 19.6 10164 CAF LTE-FDD (SC-FDMA, 188, 20MHz, 64-OAM) LTE-FDD 6.79 19.6 10170 CAF LTE-FDD (SC-FDMA, 188, 20MHz, 64-OAM) LTE-FDD 6.79 19.6 10172 CAH LTE-FDD (SC-FDMA, 188, 20MHz, 64-OAM) LTE-FDD 6.79 19.6 10172 CAH LTE-FDD (SC-FDMA, 188, 20MHz, 64-OAM) LTE-FDD 6.52	10156	CAH				
10158 CAH LTE-FDD 6.6.2 19.6 10159 CAH LTE-FDD 6.5.6 19.6 10160 CAF LTE-FDD 6.5.6 19.6 10160 CAF LTE-FDD 6.5.6 19.6 10161 CAF LTE-FDD 6.5.8 19.6 10162 CAF LTE-FDD 6.5.8 19.6 10162 CAF LTE-FDD 6.5.8 19.6 10162 CAG LTE-FDD 6.5.8 19.6 10162 CAF LTE-FDD 6.7.8 19.6 10162 CAF LTE-FDD 6.7.8 19.6 10163 CAG LTE-FDD 6.7.9 19.6 10164 CAG LTE-FDD 6.7.9 19.6 10170 CAF LTE-FDD 6.7.9 19.6 10171 CAF LTE-FDD 5.7.3 19.8 10172 CAH LTE-TDD 5.7.3 19.6 10172 CAH </td <td>10157</td> <td>CAH</td> <td></td> <td></td> <td></td> <td></td>	10157	CAH				
10150 CAH LTE-FDD Sc.5c 19.6 10160 CAF LTE-FDD Sc.5c 19.6 10161 CAF LTE-FDD Sc.2c 19.6 10161 CAF LTE-FDD Sc.2c 19.6 10162 CAF LTE-FDD Sc.4d 19.6 10162 CAF LTE-FDD Sc.4d 19.6 10162 CAF LTE-FDD Sc.4d 19.6 10167 CAC LTE-FDD Sc.4d 19.6 10168 CAG LTE-FDD Sc.4d 19.6 10169 CAF LTE-FDD Sc.7d 19.6 10170 CAF LTE-FDD Sc.7d 19.6 10171 CAF LTE-FDD Sc.7d 19.6 10172 CAH LTE-FDD Sc.7d 19.6 10172 CAH LTE-TDD Sc.7d 19.6 10172 CAH LTE-TDD Sc.7d 19.6 10172 CAH </td <td>10158</td> <td>CAH</td> <td>LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)</td> <td></td> <td>1</td> <td></td>	10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)		1	
10160 CAF LITE-FDD (SC-FDMA, 50% FB, 15MHz, 64-CAM) LITE-FDD 6.43 49.6 10161 CAF LITE-FDD (SC-FDMA, 50% FB, 15MHz, 64-CAM) LITE-FDD 6.44 49.6 10162 CAF LITE-FDD (SC-FDMA, 50% FB, 15MHz, 64-CAM) LITE-FDD 6.44 49.6 10162 CAG LITE-FDD (SC-FDMA, 50% FB, 15AMHz, 64-CAM) LITE-FDD 6.21 49.6 10168 CAG LITE-FDD (SC-FDMA, 50% FB, 14MHz, 64-CAM) LITE-FDD 6.73 49.6 10169 CAF LITE-FDD (SC-FDMA, 17B, 20MHz, 16-CAM) LITE-FDD 6.49 49.6 10170 CAF LITE-FDD (SC-FDMA, 17B, 20MHz, 16-CAM) LITE-FDD 6.49 49.6 10171 CAH LITE-FDD (SC-FDMA, 17B, 20MHz, 16-CAM) LITE-FDD 5.72 49.6 10172 CAH LITE-FDD (SC-FDMA, 17B, 20MHz, 20FS() LITE-FDD 5.72 49.6 10173 CAH LITE-FDD (SC-FDMA, 17B, 20MHz, 20FS() LITE-FDD 5.72 49.6 10176 CAH LITE-FDD (SC-FDMA, 17B,	10159	CAH				• • • • • • • • • • • • • • • • • • • •
10161 CAF LITE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) LITE-FDD 6.68 ±9.6 10162 CAG LITE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) LITE-FDD 6.68 ±9.6 10167 CAQ LITE-FDD (SC-FDMA, 50% RB, 14MHz, 16-QAM) LITE-FDD 6.74 ±9.6 10168 CAQ LITE-FDD (SC-FDMA, 50% RB, 14MHz, 16-QAM) LITE-FDD 6.79 ±9.6 10168 CAC LITE-FDD (SC-FDMA, 18B, 20 MHz, 16-QAM) LITE-FDD 6.73 ±9.6 10170 CAF LITE-FDD (SC-FDMA, 18B, 20 MHz, 16-QAM) LITE-FDD 6.49 ±9.6 10171 CAF LITE-FDD (SC-FDMA, 18B, 20 MHz, 16-QAM) LITE-FDD 9.21 ±9.6 10172 CAH LITE-TDD (SC-FDMA, 18B, 20 MHz, 64-QAM) LITE-TDD 9.48 ±9.6 10173 CAH LITE-FDD (SC-FDMA, 18B, 20 MHz, 16-QAM) LITE-FDD 5.72 ±9.6 10774 CAH LITE-FDD (SC-FDMA, 18B, 20 MHz, 16-QAM) LITE-FDD 5.72 ±9.6 10777 CAH LITE-FDD (SC-FDMA, 18B, 5MHz, 0PSK) LITE-FDD	10160	CAF				
10182 CAF LTE-FDD 6.58 ±9.6 10186 CAG LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, GAM) LTE-FDD 6.46 ±9.6 10167 CAG LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, GAM) LTE-FDD 6.73 ±9.6 10168 CAG LTE-FDD (SC-FDMA, 18, 20 MHz, 16-QAM) LTE-FDD 6.73 ±9.6 10170 CAF LTE-FDD (SC-FDMA, 18, 20 MHz, 16-QAM) LTE-FDD 6.43 ±9.6 10171 CAF LTE-FDD (SC-FDMA, 18, 20 MHz, 16-QAM) LTE-FDD 6.44 ±9.6 10172 CAH LTE-TDD (SC-FDMA, 18, 20 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 10173 CAH LTE-TDD (SC-FDMA, 18, 20 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 10173 CAH LTE-TDD (SC-FDMA, 18, 18, 10 MHz, 20-SK) LTE-FDD 5.72 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 18, 18, 10 MHz, 20-SK) LTE-FDD 5.73 ±9.6 10177 CAH LTE-FDD (SC-FDMA, 18, 5 MHz, 16-QAM) LTE-FDD 5.73 ±9.6 10177	10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)			
10166 CAG LTE-FDD 6.46 ±9.6 10167 CAG LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ±9.6 10168 CAG LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 5.73 ±9.6 10169 CAG LTE-FDD (SC-FDMA, 1RB, 20Hz, 2PSK) LTE-FDD 5.73 ±9.6 10170 CAF LTE-FDD (SC-FDMA, 1RB, 20Hz, 2PSK) LTE-FDD 6.52 ±9.6 10171 AAF LTE-FDD (SC-FDMA, 1RB, 20Hz, 2PSK) LTE-FDD 9.21 ±9.6 10172 CAH LTE-TDD (SC-FDMA, 1RB, 20Hz, 2PSK) LTE-TDD 9.21 ±9.6 10172 CAH LTE-TDD (SC-FDMA, 1RB, 20Hz, 4P-QAM) LTE-TDD 9.22 ±9.6 10176 CAH LTE-TDD (SC-FDMA, 1RB, 20Hz, 4P-QAM) LTE-FDD 5.72 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1RB, 10Hz, QPSK) LTE-FDD 5.73 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1RB, 5MHz, 4P-QAM) LTE-FDD 5.73 ±9.6 10176 CAH <td>10162</td> <td>CAF</td> <td>LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)</td> <td>LTE-FDD</td> <td></td> <td></td>	10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD		
10168 CAG LTE-FDD 6.79 ±9.6 10169 CAF LTE-FDD 5.73 ±9.6 10170 CAF LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPGK) LTE-FDD 6.52 ±9.6 10171 CAF LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPGK) LTE-FDD 6.49 ±9.6 10172 CAH LTE-FDD (SC-FDMA, 1 RB, 20 MHz, GPGK) LTE-FDD 9.48 ±9.6 10172 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPGK) LTE-TDD 9.48 ±9.6 10174 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPGK) LTE-TDD 9.48 ±9.6 10175 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPGK) LTE-FDD 5.72 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPGK) LTE-FDD 6.52 ±9.6 10177 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, GPGK) LTE-FDD 6.52 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) LTE-FDD 6.50 ±9.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz,	10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD		
10189 CAF LTE-FDD \$5.73 ±9.6 10170 CAF LTE-FDD \$5.73 ±9.6 10170 CAF LTE-FDD \$6.52 ±9.6 10171 CAH LTE-FDD \$6.49 ±9.6 10172 CAH LTE-FDD \$6.49 ±9.6 10172 CAH LTE-FDD \$6.49 ±9.6 10172 CAH LTE-TDD \$9.21 ±9.6 10173 CAH LTE-TDD \$9.21 ±9.6 10175 CAH LTE-TDD \$0.25 ±9.6 10176 CAH LTE-FDD \$5.72 ±9.6 10176 CAH LTE-FDD \$5.73 ±9.6 10177 CAH LTE-FDD \$5.73 ±9.6 10176 CAH LTE-FDD \$5.73 ±9.6 10177 CAH LTE-FDD \$5.73 ±9.6 10177 CAH LTE-FDD \$5.73 ±9.6 10180 CAF </td <td>10167</td> <td>CAG</td> <td>LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)</td> <td>LTE-FDD</td> <td>6.21</td> <td>±9.6</td>	10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6
10170 CAF LTE-FDD 6.52 ±9.6 10171 AAF LTE-FDD 6.52 ±9.6 10171 AAF LTE-FDD 6.49 ±9.6 10172 CAH LTE-FDD 6.49 ±9.6 10172 CAH LTE-TDD 9.21 ±9.6 10173 CAH LTE-TDD 9.26 ±9.6 10173 CAH LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM) LTE-TDD 9.48 ±9.6 10175 CAH LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM) LTE-FDD 5.72 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM) LTE-FDD 6.50 ±9.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 10MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10180 CAF LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM) LTE-FDD 6.50 ±9.6 10	10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	
10171 AAF LTE-FDD 6.49 ±9.6 10172 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±9.6 10173 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK) LTE-TDD 9.48 ±9.6 10173 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD 10.25 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) LTE-FDD 5.72 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.52 ±9.6 10177 CAJ LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.52 ±9.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.50 ±9.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.50 ±9.6 10180 CAF LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.52 ±9.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.	10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	
10171 AAF LTE-FDD 6.49 ±9.6 10172 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±9.6 10173 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, GPSK) LTE-TDD 9.48 ±9.6 10173 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD 10.25 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) LTE-FDD 6.52 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-FDD 6.52 ±9.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-FDD 6.52 ±9.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10173 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-TDD 9.44 ±9.6 10174 CAH LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD 10.25 ±9.6 10175 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 0PSK) LTE-FDD 5.72 ±9.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 0PSK) LTE-FDD 5.73 ±9.6 10177 CAJ LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-FDD 5.73 ±9.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 0-QAM) LTE-FDD 6.52 ±9.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QAM) LTE-FDD 6.50 ±9.6 10180 CAH LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QAM) LTE-FDD 5.72 ±9.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QPSK) LTE-FDD 6.50 ±9.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0-QAM) LTE-FDD 6.51 ±9.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 14 MHz, 0-QPSK) LTE-FDD 5.73	10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)		6.49	
10174 CAH LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM) LTE-TDD 10.25 ±5.6 10175 CAH LTE-FDD (SC-FDMA, 1 RB, 10MHz, QPSK) LTE-FDD 5.72 ±9.6 10175 CAH LTE-FDD (SC-FDMA, 1 RB, 10MHz, QPSK) LTE-FDD 5.73 ±9.6 10177 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK) LTE-FDD 6.52 ±9.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK) LTE-FDD 6.52 ±9.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, 0PSK) LTE-FDD 6.52 ±9.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, 0PSK) LTE-FDD 6.50 ±9.6 10180 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, 0PSK) LTE-FDD 6.52 ±9.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15MHz, 0PSK) LTE-FDD 6.52 ±9.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM) LTE-FDD 6.51 ±9.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM) LTE-FDD 6.51 ±9.6 <td>10172</td> <td>CAH</td> <td>LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)</td> <td>LTE-TDD</td> <td>9.21</td> <td></td>	10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	
10175 CAH LTE-FDD 5.72 19.6 10175 CAH LTE-FDD 5.72 19.6 10176 CAH LTE-FDD 5.72 19.6 10176 CAH LTE-FDD (SC-FDMA, 1 RB, 10MHz, 19-QAM) LTE-FDD 6.52 19.6 10177 CAJ LTE-FDD (SC-FDMA, 1 RB, 6MHz, 18-QPSK) LTE-FDD 6.52 19.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, 18-QAM) LTE-FDD 6.50 19.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM) LTE-FDD 6.50 19.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM) LTE-FDD 6.52 19.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM) LTE-FDD 6.52 19.6 10183 CAE LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK) LTE-FDD 6.50 19.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK) LTE-FDD 6.51 19.6 10186 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, QPSK) LTE-FDD 6.52 <td>10173</td> <td>САН</td> <td>LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)</td> <td>LTE-TDD</td> <td>9.48</td> <td>±9.6</td>	10173	САН	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10176 CAH LTE-FDD 6.52 19.6 10177 CAJ LTE-FDD 6.52 19.6 10177 CAJ LTE-FDD 6.52 19.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.52 19.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 40-QAM) LTE-FDD 6.50 19.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-FDD 6.50 19.6 10180 CAH LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.52 19.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.52 19.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.50 19.6 10183 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 19.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 19.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD	10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10177 CAJ LTE-FDD 5.73 19.6 10178 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) LTE-FDD 6.52 19.6 10179 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) LTE-FDD 6.50 19.6 10180 CAH LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-FDD 6.50 19.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.52 19.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.50 19.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 40-QAM) LTE-FDD 6.50 19.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 5.73 19.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 44-QAM) LTE-FDD 6.50 19.6 10186 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 19.6 10186 CAF LTE-FDD (SC-FDMA, 1 RB, 14 MHz, QPSK) LTE-FDD 6.52 19.6 10188	10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6
10178 CAH LTE-FDD 6.52 ±9.6 10179 CAH LTE-FDD 6.52 ±9.6 10179 CAH LTE-FDD 6.50 ±9.6 10180 CAH LTE-FDD 6.50 ±9.6 10180 CAH LTE-FDD 6.50 ±9.6 10181 CAF LTE-FDD 6.50 ±9.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-FDD 6.50 ±9.6 10183 AAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 5.73 ±9.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 0PSK) LTE-FDD 6.50 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 0PSK) LTE-FDD 6.52 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) L			LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10179 CAH LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10180 CAH LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK) LTE-FDD 5.72 ±9.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10183 AAE LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM) LTE-FDD 6.50 ±9.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK) LTE-FDD 5.73 ±9.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK) LTE-FDD 5.51 ±9.6 10186 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK) LTE-FDD 6.50 ±9.6 10186 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 6.50 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GA-QAM) LTE-FDD 6.50 ±9.6 10189 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±9.	10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10180 CAH LTE-FDD 6.50 ±9.6 10181 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK) LTE-FDD 5.72 ±9.6 10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK) LTE-FDD 6.52 ±9.6 10183 AAE LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 0PSK) LTE-FDD 6.50 ±9.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 0PSK) LTE-FDD 5.73 ±9.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 0PSK) LTE-FDD 5.73 ±9.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 5.73 ±9.6 10186 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 0PSK) LTE-FDD 6.52 ±9.6 10188 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 0AQM) LTE-FDD 6.52 ±9.6 10198 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 0AQM) UTE-FDD 6.50 ±9.6 10198	10178	CAH		LTE-FDD	6.52	±9.6
10181 CAF LTE-FDD 5.72 ±9.6 10182 CAF LTE-FDD 6.52 ±9.6 10182 CAF LTE-FDD 6.52 ±9.6 10183 AAE LTE-FDD 6.52 ±9.6 10183 AAE LTE-FDD 6.52 ±9.6 10184 CAF LTE-FDD 6.50 ±9.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, 46-QAM) LTE-FDD 6.51 ±9.6 10186 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM) LTE-FDD 6.51 ±9.6 10186 CAF LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 6.52 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GPSK) LTE-FDD 6.50 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10198 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, BPSK) <td< td=""><td></td><td></td><td></td><td>LTE-FDD</td><td></td><td></td></td<>				LTE-FDD		
10182 CAF LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) 10183 AAE LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM) 10186 AAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-QAM) LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD (S.50 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD (S.52 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD (S.52 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD (S.52 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD (S.52 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN				LTE-FDD	6.50	±9.6
10183 AAE LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 6.51 ±9.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 6.51 ±9.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10186 AAF LTE-FDD (SC-FDMA, 1 RB, 14 MHz, QPSK) LTE-FDD 6.50 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 6.52 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 6.50 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, G4-QAM) LTE-FDD 6.50 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.12 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13	1			LTE-FDD	5.72	±9.6
10184 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 5.73 ±9.6 10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 6.51 ±9.6 10186 AAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 6.50 ±9.6 10186 AAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 6.52 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, GA-QAM) LTE-FDD 6.50 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13				LTE-FDD	6.52	±9.6
10185 CAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 6.51 ±9.6 10186 AAF LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 5.73 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN 8.10 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QAM) WLAN 8.13 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QAM) WLAN 8.13		· · · · · · · · · · · · · · · · · · ·		LTE-FDD	6.50	±9.6
10186 AAF LTE-FDD 6.50 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ±9.6 10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.10 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN 8.13 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.13 ±9.6 1				LTE-FDD	5.73	±9.6
10187 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ±9.6 10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.50 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.10 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QAM) WLAN 8.13 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 52 Mbps, 64-QAM) WLAN 8.13 ±9.6 10219 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.13<				LTE-FDD	6.51	±9.6
10188 CAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ±9.6 10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.11 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10219 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.03 ±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, 7.2 Mbps, 64-QAM) WLAN 8.13				LTE-FDD	6.50	±9.6
10189 AAG LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±9.6 10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.21 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.10 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±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, 7.2 Mbps, BPSK) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.27						±9,6
10193 CAD IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±9.6 10194 CAD IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.21 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.10 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.10 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±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, 7.2 Mbps, BPSK) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.13 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.27				LTE-FDD	6.52	±9.6
10194 CAD IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ±9.6 10195 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ±9.6 10196 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.21 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QAM) WLAN 8.10 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±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, 7.2 Mbps, BPSK) WLAN 8.13 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.13 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.27	1			LTE-FDD	6.50	±9.6
10195 CAD IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.21 ±9.6 10196 CAD IEEE 802.11n (HT Mixed, 65 Mbps, BPSK) WLAN 8.10 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) WLAN 8.13 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ±9.6 10219 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.03 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) WLAN 8.13 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) WLAN 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.26 ±9.6 10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±	}			-	1	±9.6
10196 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN 8.10 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN 8.13 ±9.6 10197 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 16-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ±9.6 10219 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.03 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WLAN 8.13 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.13 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.06 ±9.6 10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±9.6 <td></td> <td></td> <td></td> <td></td> <td>8.12</td> <td>±9.6</td>					8.12	±9.6
10197 CAD IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) WLAN 8.13 ±9.6 10198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ±9.6 10219 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.03 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.13 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 16-QAM) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.13 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.06 ±9.6 10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±9.6					8.21	±9.6
10198 CAD IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ±9.6 10219 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, 64-QAM) WLAN 8.03 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.03 ±9.6 10220 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) WLAN 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.06 ±9.6 10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±9.6	L		······································		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 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.06 ±9.6 10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±9.6						±9.6
10220 CAD IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM) WLAN 8.13 ±9.6 10221 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) WLAN 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 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, 90 Mbps, 16-QAM) WLAN 8.48 ±9.6					8.27	±9.6
10221 CAD IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM) WLAN 8.27 ±9.6 10222 CAD IEEE 802.11n (HT Mixed, 15 Mbps, BPSK) WLAN 8.06 ±9.6 10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±9.6					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, 16-QAM) WLAN 8.48 ±9.6						±9.6
10223 CAD IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM) WLAN 8.48 ±9.6					8.27	±9.6
	1				8.06	±9.6
10224 GAD IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) WLAN 8.08 ±9.6	11	I			· · · · · · · · · · · · · · · · · · ·	
	10224	CAD	IEE는 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10231 10232	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	10.25	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	9.48	±9.6
10240	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6 ±9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.21	±9.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6
10244	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6
10250	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6
10257	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10258 10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6
10259	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6
10260	CAE	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.97	±9.6
10261	CAH		LTE-TOD	9.24	±9.6
10262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	9.83	±9.6
10264	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6 ±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH		LTE-TDD	10.07	±9.6
10267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10269	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
10274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
10279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10295 10297	AAB AAE	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.81	±9.6
10298	AAE	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	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-CAM) LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.39	<u>±9.6</u>
10300		IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	LTE-FDD WIMAX	6.60	±9.6
10301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.03	±9.6 ±9.6
10302	AAA	IEEE 802.16e WIMAX (22.10, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	12.57	±9.6
		IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6
	AAA				
10304 10305	AAA AAA	IEEE 802.16e WIMAX (23.16, 5115, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10307	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	Group WiMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6
10309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.40	±9.6
10310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	IDEN 1:3	IDEN	10.51	±9.6
10314	AAA	IDEN 1:6	IDEN	13.48	±9.6
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6
10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic		±9.6
10352	AAA	Pulse Waveform (200Hz, 20%)		10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 40%)	Generic	6.99	±9.6
			Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5,22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAE	IEEE 802.11ac WIFI (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6
10401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAE	IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	±9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9,6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	±9.6
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6
10419	AAA	IEEE 802.11g WiFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	±9.6
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	±9.6
10432	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10447	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	±9.6
10449	AAD	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
104450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
10450	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	±9.6
10456	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6
10457	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000 CDMA2000		±9.6 ±9.6
		UMTS-FDD (WCDMA, AMR)		8.25	
10460	AAB AAC	LTE-TDD (VCDMA, AMR) LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)		2.39	±9.6
			LTE-TDD	7.82	±9.6
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
10463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10466	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10467	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
h		LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10468	AAG				
10468 10469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	±9.6
10468			LTE-TDD LTE-TDD LTE-TDD	8.56 7.82 8.32	±9.6 ±9.6 ±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
10480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	±9.6
10481	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	±9.6
10483	AAD AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	±9.6
10484	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	±9.6
10485	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 30% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
10487	AAG	LTE-TDD (3C-FDMA, 50% RB, 10 MHz, 04-QAM, 0L Subframe=2,3,4,7,8,9)	LTE-TOD	8.60	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10400	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subjame=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15MHz, QPSK, UL Subirame=2,3,4,7,8,9)		8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (3C-FDIWA, 50% RB, 15 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDIMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41 8.55	±9.6
10493	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD		±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, 0L Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6 ±9.6
10496	AAG	LTE-TDD (30-FDMA, 30% RB, 20 MHz, 64-QAM, UL Subfame=2,3,4,7,8,9)	LTE-TDD	8.37	
10497	AAC	LTE-TDD (SC-FDMA, 30% RB, 1.4 MHz, QPSK, UL Subrame=2,3,4,7,6,9)	LTE-TDD	7.67	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, GPSK, 0L Subirante=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6 ±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6 ±9.6
10502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6
10502	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
10504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.31	±9.6
10505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10506	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TDD	8.49	±9.6
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6
10512	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
10514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6
10518	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
10521	AAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
10522	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6
10525	AAC	IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6
10526	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6
10527	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
10528	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6
10529	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
10531	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6
10532	AAC	IEEE 802.11ac WiFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10533	AAC	IEEE 802.11ac WIFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
10534	AAC	IEEE 802.11ac WIFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
10535	AAC	IEEE 802.11ac WIFI (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6
10536	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6
10537	AAC	IEEE 802.11ac WIFI (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
10538	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
10540	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10541	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6
10542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
10543	AAC	IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.65	±9.6
10544	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
10545	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10546	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
10547	AAC	IEEE 802.11ac WIFI (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	±9.6
10548	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
10550	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
10552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
10553	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6
10554	AAD	IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6
10555	AAD	IEEE 802.11ac WiFI (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
10556	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	±9.6
10557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.52	±9.6
10558	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.61	±9.6
10560	AAD	IEEE 802.11ac WIFI (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.73	±9.6
10561	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.56	±9.6
10562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.69	±9.6
10563	AAD	IEEE 802.11ac WiFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
10564	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
10565	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
10567	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10583	AAC AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10585	·····	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
-	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±9.6
10586	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10587 10588	AAC AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAC	IEEE 802.11a/h WiFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAC		WLAN	8.35	±9.6
10590	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
10591	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6
10592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)	WLAN WLAN	8.64	±9.6
10594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10090	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN WLAN	8.74	±9.6
L	INAU		WLAN WLAN	8.71	±9.6
10596				I 879	±9.6
10596 10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)			
10596 10597 10598	AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10596 10597 10598 10599	AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN WLAN	8.50 8.79	±9.6 ±9.6
10596 10597 10598 10599 10600	AAC AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN WLAN WLAN	8.50 8.79 8.88	±9.6 ±9.6 ±9.6
10596 10597 10598 10599 10600 10601	AAC AAC AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN WLAN WLAN WLAN	8.50 8.79 8.88 8.82	±9.6 ±9.6 ±9.6 ±9.6
10596 10597 10598 10599 10600 10601 10602	AAC AAC AAC AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	8.50 8.79 8.88 8.82 8.94	$ \pm 9.6 $
10596 10597 10598 10599 10600 10601 10602 10603	AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	8.50 8.79 8.88 8.82 8.94 9.03	$ \pm 9.6 $
10596 10597 10598 10599 10600 10601 10602 10603 10604	AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.50 8.79 8.88 8.82 8.94 9.03 8.76	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10596 10597 10598 10599 10600 10601 10602 10603 10604 10605	AAC AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.50 8.79 8.88 8.82 8.94 9.03 8.76 8.97	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
10596 10597 10598 10599 10600 10601 10602 10603 10604	AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle) IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.50 8.79 8.88 8.82 8.94 9.03 8.76	$ \begin{array}{r} \pm 9.6 \\ \end{array} $

ŲĮD	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10609	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WIFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9,6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WIFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9,6
10625	AAC	IEEE 802.11ac WIFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10626	AAC	IEEE 802.11 ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
10629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
10636	AAD	IEEE 802.11ac WiFI (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10637	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6
10638	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6
10639	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10685 10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	***	0.00	1.3.0

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10687	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10688	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9,6
10688	AAC AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689		IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9,6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9,6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8,29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8,26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10736 10737					
10737 10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10737 10738 10739	AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)			±9.6 ±9.6
10737 10738 10739 10740	AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.42	±9.6
10737 10738 10739 10740 10741	AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN WLAN	8.42 8.29	±9.6 ±9.6
10737 10738 10739 10740 10741 10742	AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN WLAN WLAN	8.42 8.29 8.48	±9.6 ±9.6 ±9.6
10737 10738 10739 10740 10741 10742 10743	AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40	+9.6 +9.6 +9.6 +9.6
10737 10738 10739 10740 10741 10742 10743 10744	AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 8.94	+9.6 +9.6 +9.6 +9.6 +9.6 +9.6
10737 10738 10739 10740 10741 10742 10743 10744 10745	AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 8.94 9.16	±9.6 ±9.6 ±9.6 ±9.6 ±9.6 ±9.6
10737 10738 10739 10740 10741 10742 10743 10744 10745	AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 8.94 9.16 8.93	$ \begin{array}{r} \pm 9.6 \\ \end{array} $
	AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 8.94 9.16 8.93 9.11	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10737 10738 10739 10740 10741 10742 10743 10744 10745 10746 10747	AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 9.16 8.93 9.11 9.04	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10737 10738 10739 10740 10741 10742 10743 10743 10744 10745 10745 10746 10747 10748	AAC AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 9.16 8.93 9.11 9.04 8.93	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10737 10738 10739 10740 10741 10742 10743 10744 10745 10746 10747 10748	AAC AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 8.94 9.16 8.93 9.11 9.04 8.93 8.93	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$
10737 10738 10739 10740 10741 10742 10743 10744 10745 10746	AAC AAC AAC AAC AAC AAC AAC AAC AAC AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	8.42 8.29 8.48 8.40 8.43 9.16 8.93 9.11 9.04 8.93	$\begin{array}{c} \pm 9.6 \\ \pm 9.6 \end{array}$

10753 AAC EEE 80.21 int (100MHz, MCS11, 00pc duty grobe) WLAH 6.04 9.96 10754 AAC EEE 80.21 int (100MHz, MCS13, 00pc duty grobe) WLAH 8.04 9.96 10754 AAC EEE 80.21 int (100MHz, MCS3, 00pc duty grobe) WLAH 8.77 19.8 10767 AAC EEE 80.21 int (100MHz, MCS3, 00pc duty grobe) WLAH 6.69 4.96 10776 AAC EEE 80.21 int (100MHz, MCS3, 00pc duty grobe) WLAH 6.69 4.96 10787 AAC EEE 80.21 int (100MHz, MCS3, 00pc duty grobe) WLAH 6.49 4.96 10781 AAC EEE 80.21 int (100MHz, MCS3, 00pc duty grobe) WLAH 6.49 4.96 10784 AAC EEE 80.21 int (100MHz, MCS3, 00pc duty grobe) WLAH 6.44 4.96 10784 AAC EEE 80.21 int (100MHz, MCS3, 00pc duty grobe) WLAH 6.24 4.96 10784 AAC EEE 80.21 int (100MHz, MCS3, 10pc duty grobe) WLAH 6.24 4.96 10786 AAC EEE 80.21 int (100MHz, MCS3, 10pc duty grobe)	UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10754 AAC EEER 80.7.111 (1004Hrs, MCSD, 1980-oduly cycle) WLAN 8.64 9.95 10755 AAC EEER 80.7.111 (1004Hrs, MCSD, 1980-oduly cycle) WLAN 8.77 19.8 10756 AAC EEER 80.7.111 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.77 19.8 10757 AAC EEER 80.7.111 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.64 4.98 10768 AAC EEER 80.7.111 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.64 4.98 10778 AAC EEER 80.7.111 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.64 4.98 10782 AAC EEER 80.11 11 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.64 4.98 10784 AAC EEER 80.11 11 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.64 4.98 10784 AAC EEER 80.11 11 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.64 4.98 10787 AAC EEER 80.11 11 (1004Hrs, MCSB, 1980-oduly cycle) WLAN 8.64 4.98 10786 AAC EEER 80.11 11 (1004Hrs, MCSB, 1980-odul	10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)			
10767 AAC EEE 802.11 to (1000 MHL, MSS.1 BPC addy cycle) WLAN 8.77 8.50 10768 AAC IEEE 802.11 to (1000 MHL, MSS.1 BPC addy cycle) WLAN 8.27 2.53 10768 AAC IEEE 802.11 to (1000 ML, MSS.3 BPC addy cycle) WLAN 8.28 9.36 10761 AAC IEEE 802.11 to (1000 ML, MSS.3 BPC addy cycle) WLAN 8.58 9.36 10761 AAC IEEE 802.11 to (1000 ML, MSS.3 BPC addy cycle) WLAN 8.59 9.6 10768 AAC IEEE 802.11 to (1000 ML, MSS.3 BPC addy cycle) WLAN 8.54 9.96 10768 AAC IEEE 802.11 to (1000 ML, MSS.3 BPC addy cycle) WLAN 8.54 9.96 10767 AAC IEEE 802.11 to (100 ML, MSS.3 BPC addy cycle) WLAN 8.54 19.6 10768 AAC IEEE 802.11 to (100 ML, MSS.3 BPC addy cycle) WLAN 8.54 19.6 10768 AAC IEEE 802.11 to (100 ML, MSS.3 BPC addy cycle) WLAN 8.54 19.6 10776 AAC IEEE 802.11 to (100 ML, MSS.3 BPC addy cycle)		AAC		WLAN	8.94	
10757 AAC IEEE 802.11tm (100 MHz, MCS3, 89p. day ogela) WLAH 8.77 493 10757 AAC IEEE 802.11tm (100 MHz, MCS3, 89p. day ogela) WLAH 8.58 1.98 10758 AAC IEEE 802.11tm (100 MHz, MCS3, 89p. day ogela) WLAH 8.58 1.98 10761 AAC IEEE 802.11tm (100 MHz, MCS3, 89p. day ogela) WLAH 8.53 4.98 10762 AAC IEEE 802.11tm (100 MHz, MCS3, 89p. day ogela) WLAH 8.53 4.98 10764 AAC IEEE 802.11tm (100 MHz, MCS3, 89p. day ogela) WLAH 8.54 4.90 10764 AAC IEEE 802.11tm (100 MHz, MCS3, 99p. day ogela) WLAH 8.54 4.90 10767 AAC IEEE 802.11tm (100 MHz, MCS3, 99p. day ogela) WLAH 8.54 4.90 10768 AAC IEEE 802.11tm (100 MHz, MCS3, 99p. day ogela) WLAH 8.54 4.90 10768 AAC IEEE 802.11tm (100 MHz, MCS3, 99p. day ogela) WLAH 8.54 4.90 10769 AAC IEEE 802.11tm (100 MHz, MCS3, 99p. day ogela) <		AAC		WLAN	8.64	
10767 AAC EFEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.67 1936 10768 AAC FEEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.69 1936 10769 AAC FEEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.49 43.6 10769 AAC FEEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.49 43.6 10761 AAC FEEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.44 43.6 10766 AAC FEEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.44 48.6 10767 AAC FEEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.54 49.6 10767 AAC FEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.54 49.6 10767 AAC FEE 80.21 Tax (flow Mrk, MCS, 990 outy cycle) WLAN 8.54 49.6 10767 AAC S6 NR (PO-CPGM, HE, 154.47) S6 NR (PO-FEM, HE, 34.44, 29.6 50.8 49.6 10777 AAD S6 NR (PO-CPGM, HE, 35.444, CS6.54.154.47) </td <td></td> <td></td> <td></td> <td>WLAN</td> <td>8.77</td> <td>· ·</td>				WLAN	8.77	· ·
10769 ACC IEEE 60.211 kt (100 MHz, MCS3, 890 duty cyclo) WLAN 8.59 1936 10769 ACC IEEE 60.211 kt (100 MHz, MCS3, 890 duty cyclo) WLAN 8.58 1936 10761 ACC IEEE 60.211 kt (100 MHz, MCS3, 890 duty cyclo) WLAN 8.58 1936 10761 ACC IEEE 60.211 kt (100 MHz, MCS3, 690 duty cyclo) WLAN 8.54 430 10762 ACC IEEE 60.211 kt (100 MHz, MCS3, 690 duty cyclo) WLAN 8.54 430 10764 ACC IEEE 60.211 kt (100 MHz, MCS3, 690 duty cyclo) WLAN 8.54 430 10766 ACC IEEE 60.211 kt (100 MHz, MCS3, 690 duty cyclo) WLAN 8.54 430 10767 ACC IEEE 60.21 kt (100 MHz, MCS3, 140, 40 Mtz) GO NH FH TDD 7.99 4.80 10767 ACC IEEE 60.21 kt (100 MHz, MCS3, 140, 40 Mtz) GO NH FH TDD 8.01 4.86 10767 ACC IEEE 60.21 kt (100 MHz, MCS4, 154/d) GO NH FH TDD 8.01 4.86 10776 ACD GO NH (100 CHTML, 18, 35MH, CHS4, 154/d)		AAC		WLAN	8.77	
10750 ACC IEEE BO2.11xx (160 MHz, MCS, 9890 cubry optio) WLAN 8.43 1496 10761 ACC IEEE BO2.11xx (160 MHz, MCS, 9890 cubry optio) WLAN 8.49 1496 10762 ACC IEEE BO2.11xx (160 MHz, MCS, 9890 cubry optio) WLAN 8.49 149.5 10762 ACC IEEE BO2.11xx (160 MHz, MCS, 9890 cubry optio) WLAN 8.54 139.6 10764 ACC IEEE BO2.11xx (160 MHz, MCS, 9890 cubry optio) WLAN 8.54 139.6 10764 ACC IEEE BO2.11xx (160 MHz, MCS, 9890 cubry optio) WLAN 8.51 139.6 10776 ACC IEEE BO2.11xx (160 MHz, MCSR, 159.44) GN NR FR1 TOD 8.01 4.98.6 10787 ALD GG NR (07-OFDM, 1FB, 50MHz, OPSK, 154.41) GN NR FR1 TOD 8.02 4.98.6 10774 ALD GG NR (07-OFDM, 1FB, 50MHz, OPSK, 154.41) GN NR FR1 TOD 8.02 4.98.6 10774 ALD GG NR (07-OFDM, 1FB, 50MHz, OPSK, 154.41) GN NR FR1 TOD 8.02 4.98.6 10774 ALD GG NR (07-OFDM, 1FB, 50MH		AAC		WLAN	8.69	
10760 AAC IEEE 80.21 tax (160 MHz, MCSS, 9890 duby opiol) WLAN 8.49 4.90 10781 AAC IEEE 80.21 tax (160 MHz, MCSS, 9990 duby opiol) WLAN 8.53 9.96 10782 AAC IEEE 80.21 tax (160 MHz, MCSS, 9990 duby opiol) WLAN 8.54 5.96 10784 AAC IEEE 80.21 tax (160 MHz, MCSS, 9990 duby opiol) WLAN 8.54 5.96 10785 AAC IEEE 80.21 tax (160 MHz, MCSS, 9990 duby opiol) WLAN 8.54 5.96 10786 AAC IEEE 80.21 tax (160 MHz, MCSS, 1980 duby opiol) WLAN 8.54 5.96 10787 AAC G S IN (167 -OFDM, 178, 155 MHz, 02785, 155 Hz) 50 NIR FR1 TOD 8.01 4.96 10771 AAD G S IN (167 -OFDM, 178, 30MHz, 02785, 155 Hz) 50 NIR FR1 TOD 8.02 4.96 10772 AAD G S IN (167 -OFDM, 178, 30MHz, 02785, 155 Hz) 50 NIR FR1 TOD 8.02 4.96 10774 AAD G S IN (167 -OFDM, 178, 30MHz, 02785, 155 Hz) 50 NIR FR1 TOD 8.32 4.96 10774 AAD G S I	J	AAC		WLAN	8.58	
10761 A.C. LEEE B0.21 tax (fio MHz, MSS, 89pc duty optio) WLAN 8.48 49.6 10762 A.C. LEEE B0.21 tax (fio MHz, MSS, 89pc duty optio) WLAN 8.45 19.6 10764 A.C. LEEE B0.21 tax (fio MHz, MSS, 99pc duty optio) WLAN 8.54 49.6 10764 A.C. LEEE B0.21 tax (fio MHz, MSS, 99pc duty optio) WLAN 8.54 49.6 10767 A.C. LEEE B0.21 tax (fio MHz, MSS, 99pc duty optio) WLAN 8.54 49.6 10767 A.C. EEE B0.21 tax (fio MHz, MSS, 99pc duty optio) WLAN 8.51 49.6 10778 A.D. SG NR (CP-OFDM, T.B., 10ML, QPSK, 15Hz) SG NR FFI TOD 8.01 49.6 10778 A.D. SG NR (CP-OFDM, T.B., 20ML, QPSK, 15Hz) SG NR FFI TOD 8.02 49.6 10774 A.D. SG NR (CP-OFDM, T.B., 20ML, QPSK, 15Hz) SG NR FFI TOD 8.02 49.6 10774 A.D. SG NR (CP-OFDM, T.B., 20ML, QPSK, 15Hz) SG NR FFI TOD 8.23 49.6 10774 A.D. SG NR (CP-OFDM, SG NR B, 20ML,		AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	
10782 ACC IEEE 802.11at (160 MHz, MCS5, 980 cuty cycle) WLAN 8.49 496 10784 ACC IEEE 802.11at (160 MHz, MCS5, 980 cuty cycle) WLAN 8.54 496 10785 ACC IEEE 802.11at (160 MHz, MCS1), 980 cuty cycle) WLAN 8.54 496 10787 ACC IEEE 802.11at (160 MHz, MCS1), 980 cuty cycle) WLAN 8.51 196 10767 ACC IEEE 802.11at (160 MHz, MCS1), 980 cuty cycle) WLAN 8.51 196 10767 ACD IEEE 802.11at (160 MHz, MCS1), 980 cuty cycle) WLAN 8.51 196 10776 ADD SO NR (CP-OFDM, 178, 100 MHz, CPSK, 15442) GN RF FIT TDD 8.01 4.96 10777 ADD SO NR (CP-OFDM, 178, 300 MHz, CPSK, 15442) GN RF FIT TDD 8.02 4.96 10778 ADD SO NR (CP-OFDM, 178, 300 MHz, CPSK, 15442) GN RF FIT TDD 8.02 4.96 10777 <ad< td=""> SO NR (CP-OFDM, 178, 300 MHz, CPSK, 15442) GN RF FIT TDD 8.02 4.96 10778 ADD SO NR (CP-OFDM, 178, 300 MHz, CPSK, 15442)</ad<>		AAC		WLAN	•••••	
10764 ACC IEEE 802.11x (160 MHz, MCS0, 990 duty cycle) WLAN 8.64 .9.64 10768 ACC IEEE 802.11x (160 MHz, MCS0, 1990 duty cycle) WLAN 8.61 .9.65 10767 ALE 50 NR (CP-CPM, 1EB, 51Mz, CPSK, 15Mz) 50 NR FPH TDD 8.61 .9.66 10769 ADD 50 NR (CP-CPM, 1EB, 15Mz, CPSK, 15Mz) 50 NR FPH TDD 8.01 .4.96 10779 ADD 50 NR (CP-CPM, 1EB, 15Mz, CPSK, 15Mz) 50 NR FPH TDD 8.01 .4.96 10771 ADD 50 NR (CP-CPM, 1EB, 25Mz, CPSK, 15Mz) 50 NR FPH TDD 8.02 .4.96 10772 ADD 50 NR (CP-CPM, 1EB, 25Mz, CPSK, 15Mz) 50 NR FPH TDD 8.03 .4.96 10774 ADD 50 NR (CP-CPM, 1EB, 25Mz, CPSK, 15Mz) 50 NR FPH TDD 8.03 .4.96 10775 ADD 50 NR (CP-CPM, 1EB, 25Mz, CPSK, 15Mz) 50 NR FPH TDD 8.03 .4.86 10776 ADD 50 NR (CP-CPM, 50K, 50K, 50K, 50K, 50K, 50K, 50K, 50K		AAC		WLAN	8.49	
10764 AC IEEE 802.11x (100 MHz, MCS0, 99p duty cycle) WLAN 8.64 59.6 10768 AC IEEE 802.11x (100 MHz, MCS1), 99p duty cycle) WLAN 8.61 19.6 10767 ALE 55 NR (CP-CPM, 118, 154, 142, CPSK, 15442) 50 NR FPH TDD 8.01 19.8 10768 ALD 55 NR (CP-CPM, 118, 150, 142, CPSK, 15442) 50 NR FPH TDD 8.01 19.8 10778 ALD 55 NR (CP-CPM, 118, 18, 1504, CPSK, 15442) 50 NR FPH TDD 8.02 19.6 10771 ALD 55 NR (CP-CPM, 118, 2004, CPSK, 15442) 50 NR FPH TDD 8.02 19.6 10774 ALD 55 NR (CP-CPM, 118, 2004, CPSK, 15442) 50 NR FPH TDD 8.02 19.6 10774 ALD 50 NR (CP-CPM, 188, 2004, CPSK, 15442) 50 NR FPH TDD 8.02 19.6 10775 ALD 50 NR (CP-CPM, 188, 2004, CPSK, 15442) 50 NR FPH TDD 8.30 19.8 10776 ALD 50 NR (CP-CPM, 50 NS, B5 .01 MHz, CPSK, 15442) 50 NR FPH TDD 8.34 19.8 10777 ALD 50 NR (CP-CPM, 50 NS, B5 .		AAC		WLAN	8.53	±9.6
10767 ACC IEEE BO2 T1 ax (160 MHz, MCST1, 960p duy oyle) WLAN 9.51 9.93 10767 ALE 55 NR (CP-OFDM, 1 RB, 10MHz, OPSK, 15H42) 50 NR FPH TDD 8.01 9.96 10768 ADD 55 NR (CP-OFDM, 1 RB, 10MHz, OPSK, 15H42) 56 NR FPH TDD 8.00 4.96 10771 ADD 55 NR (CP-OFDM, 1 RB, 20MHz, OPSK, 15H42) 56 NR (PO-OFDM, 1 RB, 20MHz, OPSK, 15H42) 50 NR FPH TDD 8.02 4.96 10773 ADD 55 NR (CP-OFDM, 1 RB, 20MHz, OPSK, 15H42) 50 NR FPH TDD 8.02 4.96 10774 ADD 50 NR (CP-OFDM, 1 RB, 20MHz, OPSK, 15H42) 50 NR FPH TDD 8.03 4.96 10774 ADD 50 NR (CP-OFDM, 1 RB, 30MHz, OPSK, 15H42) 50 NR FPH TDD 8.03 4.96 10774 ADD 50 NR (CP-OFDM, 50%, RB, 10MHz, OPSK, 15H42) 50 NR FPH TDD 8.04 4.96 10774 ADD 50 NR (CP-OFDM, 50%, RB, 10MHz, OPSK, 15H42) 50 NR FPH TDD 8.34 4.94 10776 ADD 50 NR (CP-OFDM, 50%, RB, 10MHz, OPSK, 15MHz) 50 NR (NT FTDD 8.34 4.94		AAC		WLAN	8.54	±9.6
10767 AAE 5G N RI (CP-OPDM, 1 RB, 5MHz, OPSK, 15442) 5G N R RH TOD 6,30 128.3 10768 AAD 5G N R (CP-OPDM, 1 RB, 10MHz, OPSK, 15442) 5G N R RH TOD 6,01 1.8 10770 AAD 5G N R (CP-OPDM, 1 RB, 10MHz, OPSK, 15442) 5G N R RH TOD 8.02 1.8 10771 AAD 5G N R (CP-OPDM, 1 RB, 20MHz, QPSK, 15442) 5G N R RH TOD 8.02 1.8 10772 AAD 5G N R (CP-OPDM, 1 RB, 20MHz, QPSK, 15442) 5G N R RH TOD 8.02 1.8 10772 AAD 5G N R (CP-OPDM, 1 RB, 20MHz, QPSK, 15442) 5G N R RH TOD 8.03 1.9 10775 AAD 5G N R (CP-OPDM, 1 RB, 30MHz, QPSK, 15442) 5G N R RH TOD 8.31 1.9 10777 AAD 5G N R (CP-OPDM, 50% RB, 10MHz, QPSK, 15442) 5G N R RH TOD 8.30 4.9.0 10778 AAD 5G N R (CP-OPDM, 50% RB, 10MHz, QPSK, 15442) 5G N R RH TOD 8.30 4.9.0 10777 <aac< td=""> SG N R (CP-OPDM, 50% RB, 10MHz, QPSK, 15442) 5G N R FH TOD 8.34 4.9.0 10778 AAD 5G N R (CP-O</aac<>			IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10768 AAD SG NR (CP-OPDM, 1 BB, 10MHz, OPSK, 15Hz) SG NR PR1 TDD ADJ 23.8 10776 AAD SG NR (CP-OPDM, 1 BB, 10MHz, OPSK, 15Hz) SG NR PR1 TDD 8.01 13.8 10777 AAD SG NR (CP-OPDM, 1 BB, 20MHz, OPSK, 15Hz) SG NR PR1 TDD 8.02 13.8 10771 AAD SG NR (CP-OPDM, 1 RB, 20MHz, OPSK, 15Hz) SG NR PR1 TDD 8.02 13.8 10772 AAD SG NR (CP-OPDM, 1 RB, 20MHz, OPSK, 15Hz) SG NR PR1 TDD 8.03 13.9 10774 AAD SG NR (CP-OPDM, 1 RB, 20MHz, OPSK, 15Hz) SG NR PR1 TDD 8.30 14.9 10776 AAD SG NR (CP-OPDM, 50% RB, 5MHz, OPSK, 15Hz) SG NR PR1 TDD 8.30 14.9 10777 AAC SG NR (CP-OPDM, 50% RB, 20MHz, OPSK, 15Hz) SG NR PR1 TDD 8.30 14.9 10778 AAC SG NR (CP-OPDM, 50% RB, 20MHz, OPSK, 15Hz) SG NR PR1 TDD 8.34 4.9 10780 AAD SG NR (CP-OPDM, 50% RB, 20MHz, OPSK, 15Hz) SG NR PR1 TDD 8.34 1.3.8 10784 AAD SG NR (CP-OPD	1			WLAN	8.51	±9.6
10709 AAD 50 NR (CP-OPDM, 1 R8, 15MHz, OPSK, 15HHz) 50 NR FR1 TDD 6.02 49.6 10771 AAD 50 NR (CP-OPDM, 1 R8, 20MHz, OPSK, 15HHz) 50 NR FR1 TDD 6.02 49.6 10772 AAD 50 NR (CP-OPDM, 1 R8, 20MHz, OPSK, 15HHz) 50 NR FR1 TDD 6.02 49.6 10772 AAD 50 NR (CP-OPDM, 1 R8, 30MHz, OPSK, 15HHz) 50 NR FR1 TDD 6.02 49.6 10774 AAD 50 NR (CP-OPDM, 1 R8, 30MHz, OPSK, 15HHz) 50 NR FR1 TDD 8.03 49.6 10775 AAD 50 NR (CP-OPDM, 50% R8, 50 MHz, OPSK, 15HHz) 50 NR FR1 TDD 8.30 49.6 10776 AAD 50 NR (CP-OPDM, 50% R8, 50 MHz, OPSK, 15HHz) 50 NR FR1 TDD 8.30 49.6 10779 AAD 50 NR (CP-OPDM, 50% R8, 50 MHz, OPSK, 15HHz) 50 NR FR1 TDD 8.34 49.6 10781 AAD 50 NR (CP-OPDM, 50% R8, 50 MHz, OPSK, 15HHz) 50 NR FR1 TDD 8.34 49.6 10782 AAD 50 NR (CP-OPDM, 50% R8, 50 MHz, OPSK, 15HHz) 50 NR FR1 TDD 8.34 49.6 10781 AAD	· · · · · · · · · · · · · · · · · · ·			5G NR FR1 TDD	7.99	±9.6
19770 AAD 5G NR (CP-CPDM, 1 R8, 25MHz, CPSK, 15HHz) 5G NR FFI TDD 8.02 196 19771 AAD 5G NR (CP-CPDM, 1 R8, 25MHz, CPSK, 15HHz) 5G NR FFI TDD 8.03 196 19772 AAD 5G NR (CP-CPDM, 1 R8, 30MHz, CPSK, 15HHz) 5G NR FFI TDD 8.03 196 19774 AAD 5G NR (CP-CPDM, 1 R8, 50MHz, CPSK, 15HHz) 5G NR FFI TDD 8.03 196 19775 AAD 5G NR (CP-CPDM, 50% R8, 5MHz, CPSK, 15HHz) 5G NR FFI TDD 8.30 149.6 19776 AAD 5G NR (CP-CPDM, 50% R8, 15MHz, CPSK, 15HHz) 5G NR FRI TDD 8.30 149.6 19777 AAC 5G NR (CP-CPDM, 50% R8, 20MHz, CPSK, 15HHz) 5G NR FRI TDD 8.34 149.6 19778 AAC 5G NR (CP-CPDM, 50% R8, 20MHz, CPSK, 15HHz) 5G NR FRI TDD 8.34 149.6 19778 AAC 5G NR (CP-CPDM, 50% R8, 20MHz, CPSK, 15HHz) 5G NR FRI TDD 8.34 149.6 19789 AAC 5G NR (CP-CPDM, 50% R8, 5MHz, CPSK, 15HHz) 5G NR FRI TDD 8.34 149.6 19784 AAD <				5G NR FR1 TDD	8.01	±9.6
10771 AAD 5G NR 1CP-OFDM, 1R8, 25MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.02 196 10772 AAD 5G NR 1CP-OFDM, 1R8, 30MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.03 19.6 10774 AAD 5G NR 1CP-OFDM, 1R8, 30MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.02 19.6 10775 AAD 5G NR 1CP-OFDM, 1B8, 30MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.30 19.6 10776 AAD 5G NR 1CP-OFDM, 50% RB, 5MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.30 19.6 10777 AAD 5G NR 1CP-OFDM, 50% RB, 80MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.34 19.6 10779 AAC 5G NR 1CP-OFDM, 50% RB, 80MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.34 19.6 10780 AAD 5G NR 1CP-OFDM, 50% RB, 80MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.38 19.6 10781 AAD 5G NR 1CP-OFDM, 50% RB, 80MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.38 19.6 10782 AAD 5G NR 1CP-OFDM, 50% RB, 80MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.31 4.96 10784 AAD 5G NR 1CP-OFDM, 100% RB, 10 MHz, QPSK, 1514b2) 5G NR FFR 1TDD 8.31 <td></td> <td></td> <td></td> <td>5G NR FR1 TDD</td> <td>8.01</td> <td>±9.6</td>				5G NR FR1 TDD	8.01	±9.6
10727 AAD 5G NR (CP-OFDM, 188, 30MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.0.2 136 10737 AAD 5G NR (CP-OFDM, 188, 30MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.0.3 136 10774 AAD 5G NR (CP-OFDM, 178, 50MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.0.3 136 10776 AAD 5G NR (CP-OFDM, 50% RB, 5MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.3.0 139.6 10777 AAC 5G NR (CP-OFDM, 50% RB, 15MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.3.0 139.6 10778 AAC 5G NR (CP-OFDM, 50% RB, 35MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.3.4 149.6 10778 AAC 5G NR (CP-OFDM, 50% RB, 35MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.3.8 13.6 10780 AAD 5G NR (CP-OFDM, 50% RB, 30MHz, OPSK, 158Hz) 5G NR FR 11TDD 6.3.8 13.6 10781 AAD 5G NR CP, OFDM, 100% RB, 20MHz, OPSK, 158Hz) 5G NR FR 11TDD 8.3.8 14.9 10782 AAD 5G NR CP, OFDM, 100% RB, 20MHz, OPSK, 158Hz) 5G NR FR 11TDD 8.3.8 14.9 10783 <t< td=""><td></td><td></td><td></td><td>5G NR FR1 TDD</td><td>8.02</td><td>±9.6</td></t<>				5G NR FR1 TDD	8.02	±9.6
10773 AAD 5G NR ICP-OFOM, 1 R8, 40MHz, OPSK, 15 kHz) 5G NR FFR 1TDD 6.03 1.96 10774 AAD 5G NR ICP-OFOM, 1 R8, 50 MHz, OPSK, 15 kHz) 5G NR FFR 1TDD 6.31 1.96 10776 AAD 5G NR ICP-OFOM, 50% R8, 4MHz, OPSK, 15 kHz) 5G NR FFR 1TDD 6.30 1.96 10776 AAD 5G NR ICP-OFOM, 50% R8, 6MHz, OPSK, 15 kHz) 5G NR FFR 1TDD 6.30 1.96 10777 AAC 5G NR ICP-OFOM, 50% R8, 70 MHz, OPSK, 15 kHz) 5G NR FFR 1TDD 8.34 4.95 10778 AAC 5G NR ICP-OFOM, 50% R8, 20 MHz, OPSK, 15 kHz) 5G NR FFR 1TDD 8.34 4.95 10781 AAD 5G NR ICP-OFOM, 50% R8, 20 MHz, APSK, 15 kHz) 5G NR FFR 1TDD 8.38 4.96 10782 AAD 5G NR ICP-OFOM, 50% R8, 20 MHz, APSK, 15 kHz) 5G NR FFR 1TDD 8.43 4.96 10783 AAE 5G NR ICP-OFOM, 100% R8, 10 MHz, OPSK, 15 kHz) 5G NR FFR 1TDD 8.44 4.95 10786 AAD 5G NR ICP-OFOM, 100% R8, 20 MHz, OPSK, 15 kHz) 5G NR FR 1TDD 8.44 4.95 10786 AAD 5G NR ICP-OFOM, 100% R8, 20 MHz, OPSK, 15 kHz) 5G NR FFR 1TDD				5G NR FR1 TDD	8.02	±9.6
10774 AAD 66 NR (CP-OFDM, 198, 50 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.31 ±9.6 10776 AAD 66 NR (CP-OFDM, 50%, RB, 16 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.30 ±9.8 10777 AAC 56 NR (CP-OFDM, 50%, RB, 16 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.30 ±9.8 10777 AAC 56 NR (CP-OFDM, 50%, RB, 20 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.44 ±9.6 10778 AAD 56 NR (CP-OFDM, 50%, RB, 20 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.42 ±9.6 10780 AAD 56 NR (CP-OFDM, 50%, RB, 20 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.31 ±9.6 10781 AAD 56 NR (CP-OFDM, 50%, RB, 20 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.31 ±9.6 10782 AAD 56 NR (CP-OFDM, 100%, RB, 50 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.31 ±9.6 10784 AAD 56 NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.31 ±9.6 10785 AAD 56 NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 kHz) 56 NR FR1 TDD 8.31 ±9.6 10786 AAD 56 NR (CP-OFDM, 100%, RB, 20 MHz, QPSK, 15 kHz) 56 NR FR1 TDD				5G NR FR1 TDD	8.23	±9.6
10775 AAD 56 N R (CP-OFDM, 50%, RB, 50MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.33 1263 10776 AAD 5G NN R (CP-OFDM, 50%, RB, 10MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.30 1263 10777 AAD 5G NN R (CP-OFDM, 50%, RB, 20MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.34 49.8 10778 AAD 5G NN R (CP-OFDM, 50%, RB, 20MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.34 49.8 10778 AAD 5G NN R (CP-OFDM, 50%, RB, 20MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.38 19.6 10781 AAD 5G NN R (CP-OFDM, 50%, RB, 50MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.38 19.6 10782 AAD 5G NN R (CP-OFDM, 50%, RB, 50MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.38 19.8 10783 AAD 5G NN R (CP-OFDM, 100%, RB, 20MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.39 19.8 10784 AAD 5G NN R (CP-OFDM, 100%, RB, 20MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.39 19.8 10786 AAD 5G NR (CP-OFDM, 100%, RB, 20MHz, OPSK, 15Hz) 5G NN R R1 TDD 8.39 19.8 107		····· · · · ·		5G NR FR1 TDD	8.03	±9.6
1977 AAD 5G NR (CP-OFDM, 50%, RB, 10MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.30 ±9.6 10777 AAC 5G NR (CP-OFDM, 50%, RB, 20MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.34 ±9.6 10778 AAC 5G NR (CP-OFDM, 50%, RB, 20MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.34 ±9.6 10780 AAD 5G NR (CP-OFDM, 50%, RB, 20MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.38 ±9.6 10781 AAD 5G NR (CP-OFDM, 50%, RB, 20MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.39 ±9.6 10782 AAD 5G NR (CP-OFDM, 50%, RB, 20MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.31 ±9.6 10783 AAE 5G NR (CP-OFDM, 100%, RB, 20MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.33 ±9.6 10784 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.39 ±9.6 10787 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.39 ±9.6 10788 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, OPSK, 15 Hz) 5G NR FRI TDD 8.39 ±9.6 10789 AAD 5G NR (CP-OFDM, 100%, RB, 20 MHz, OPSK, 30 Hz) 5G NR FRI TDD <t< td=""><td></td><td>1</td><td></td><td>5G NR FR1 TDD</td><td>8.02</td><td>±9.6</td></t<>		1		5G NR FR1 TDD	8.02	±9.6
19777 AAC 9G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.30 430.6 10778 AAC 5G NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.34 430.6 10779 AAC 5G NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.38 436.6 10781 AAD 5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.38 436.6 10782 AAD 5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.43 136.6 10782 AAD 5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.43 436.6 10785 AAD 5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.44 486.6 10786 AAD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.44 486.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.44 486.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 TDD 8.44 486.6 10789 AAD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15kHz) 5G NR FR1 TDD 8		4		5G NR FR1 TDD	8.31	±9.6
19778 AAD 5G NR FRI CP-OFDM, 59% RB, 20MHz, QPSK, 15 KHz) 5G NR FRI TDD 8.42 ±9.6 10779 AAC 5G NR FCP-OFDM, 59% RB, 30 MHz, QPSK, 15 KHz) 5G NR FRI TDD 8.42 ±9.6 10780 AAD 5G NR FCP-OFDM, 59% RB, 40 MHz, QPSK, 15 KHz) 5G NR FRI TDD 8.38 ±9.6 10781 AAD 5G NR FCP-OFDM, 59% RB, 50 MHz, QPSK, 15 KHz) 5G NR FRI TDD 8.33 ±9.6 10782 AAD 5G NR FRI TDD 8.34 ±9.6 5G NR FRI TDD 8.34 ±9.6 10784 AAD 5G NR FRI TDD 8.34 ±9.6 5G NR FRI TDD 8.34 ±9.6 10785 AAD 5G NR FRI TDD 8.34 ±9.6 5G NR FRI TDD 8.34 ±9.6 10786 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI TDD 8.34 ±9.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI TDD 8.34 ±9.6 10780 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FRI TDD 8.39 ±9.6 10780 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz)				5G NR FR1 TDD	8.30	±9.6
19779 AAC 6G NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.42 ±9.6 10780 AAD 5G NR (CP-OFDM, 50% RB, 30MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.38 ±9.6 10781 AAD 5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.43 ±3.6 10783 AAE 5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.43 ±3.6 10784 AAD 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.29 ±9.6 10785 AAD 5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.44 ±9.6 10786 AAD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.44 ±9.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.37 ±9.6 10780 AAD 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.39 ±9.6 10791 AAE 5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15KHz) 5G NR FR1 TDD 7.83 ±9.6 10792 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.83				5G NR FR1 TDD	8.30	±9.6
10780 AAD 5G NR (PC-OFDM, 50% RB, 30MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.38 ±9.6 10781 AAD 5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 15 kHz) 5G NR RF ITDD 8.31 ±9.6 10782 AAD 5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.31 ±9.6 10784 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.40 ±9.6 10785 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.40 ±9.6 10786 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.40 ±9.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.39 ±9.6 10788 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.39 ±9.6 10789 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FRI TDD 8.39 ±9.6 10781 AAD 5G NR (CP-OFDM, 108% RB, 30 MHz, QPSK, 30 kHz) 5G NR FRI TDD 7.33 ±9.6 10782 AAD 5G NR (CP-OFDM, 18, 10 MHz, QPSK, 30 kHz) 5G NR FRI TDD			5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10781 AD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.38 49.6 10782 AAO 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.31 19.6 10783 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.31 19.6 10784 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.40 4.86 10786 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.40 4.96 10786 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.44 4.96 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.39 1.96 10789 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR ITDD 8.39 1.96 10790 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR ITDD 8.39 1.96 10791 AAE 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30 KHz) 5G NR FR ITDD 7.92 2.96 10792	1			5G NR FR1 TDD	8.42	±9.6
10782 AAD 5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15KHz) 5G NR FR1 TDD 8.43 19.6 10783 AAE 5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 15KHz) 5G NR RF1 TDD 8.40 ±9.6 10784 AAD 5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15KHz) 5G NR RF1 TDD 8.40 ±9.6 10785 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15KHz) 5G NR RF1 TDD 8.44 ±9.6 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15KHz) 5G NR RF1 TDD 8.33 ±9.6 10789 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15KHz) 5G NR RF1 TDD 8.39 ±9.6 10790 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15KHz) 5G NR RF1 TDD 8.39 ±9.6 10791 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR RF1 TDD 8.39 ±9.6 10792 AAD 5G NR (CP-OFDM, 18, 40 MHz, QPSK, 30 KHz) 5G NR RF1 TDD 7.92 ±9.6 10794 AAD 5G NR (CP-OFDM, 18, 50 MHz, QPSK, 30 KHz) 5G NR RF1 TDD 7.92 ±9.6 10794 A				5G NR FR1 TDD	8.38	±9.6
10783 AAE SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.31 ±9.6 10784 AAD SG NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.40 ±9.6 10785 AAD SG NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.40 ±9.6 10786 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.44 ±9.6 10787 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.37 ±9.6 10789 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.39 ±9.6 10789 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.39 ±9.6 10790 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.92 ±9.6 10791 AAD SG NR (CP-OFDM, 17 RB, 5 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.92 ±9.6 10792 AAD SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.84 ±9.6 10794 AAD SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) SG NR FR1 TDD				5G NR FR1 TDD	8.38	±9.6
10784 AAD SG NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz) SG NR FR1 TDD 8.29 19.6 10785 AAD SG NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz) SG NR FR1 TDD 8.40 19.6 10786 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) SG NR FR1 TDD 8.44 19.6 10786 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) SG NR FR1 TDD 8.44 19.6 10787 AAD SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) SG NR FR1 TDD 8.39 19.6 10789 AAD SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) SG NR FR1 TDD 8.39 19.6 10791 AAE SG NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) SG NR FR1 TDD 7.82 19.6 10792 AAD SG NR (CP-OFDM, 18, 18, 10 MHz, QPSK, 30 kHz) SG NR FR1 TDD 7.95 19.6 10793 AAD SG NR (CP-OFDM, 17, RS, 20 MHz, QPSK, 30 kHz) SG NR FR1 TDD 7.82 19.6 10793 AAD SG NR (CP-OFDM, 17, RS, 20 MHz, QPSK, 30 kHz) SG NR FR1 TDD 7.82 19.6 10794 AAD SG NR (CP-OFDM, 17, RS, 20 MHz, QPSK, 30 kHz) SG NR FR1 TDD <td></td> <td></td> <td></td> <td>5G NR FR1 TDD</td> <td>8.43</td> <td>±9.6</td>				5G NR FR1 TDD	8.43	±9.6
19786 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, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10789 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.39 ±9.6 10789 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 ±9.6 10791 AAE 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10792 AAD 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10794 AAD 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±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, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10796				5G NR FR1 TDD	8.31	±9.6
10786 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.35 19.8 10787 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.44 19.6 10788 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.37 19.6 10789 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 8.38 19.6 10791 AAE 5G NR (CP-OFDM, 18, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 19.6 10782 AAD 5G NR (CP-OFDM, 18, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 19.6 10793 AAD 5G NR (CP-OFDM, 18, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 19.6 10793 AAD 5G NR (CP-OFDM, 18, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 19.6 10794 AAD 5G NR (CP-OFDM, 18, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 19.6 10795 AAD 5G NR (CP-OFDM, 18, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.84 19.6 10799 AAD	L			5G NR FR1 TDD	8.29	±9.6
10787 AAD 5G NR FR1 TDD 8.44 ±9.6 10786 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 ±9.6 10780 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.37 ±9.6 10791 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 7.83 ±9.6 10792 AAD 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.92 ±9.6 10793 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.92 ±9.6 10794 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±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, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.84 ±9.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.84 ±9.6 10797 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz)			5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10788 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 19.6 10789 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.37 19.6 10790 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 KHz) 5G NR FR1 TDD 8.39 19.6 10791 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 19.6 10792 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.92 ±9.6 10793 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±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, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10798 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 ±9.6 10797 <t< td=""><td></td><td></td><td>5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 TDD</td><td>8.35</td><td>±9.6</td></t<>			5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±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, 30 KHz) 5G NR FR1 TDD 7.83 ±9.6 10791 AAD 5G NR (CP-OFDM, 1 RB, 50 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 7.95 ±9.6 10793 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±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, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.82 ±9.6 10797 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, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAD<				5G NR FR1 TDD	8.44	±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, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 149.6 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 7.82 ±9.6 10794 AAD 5G NR (CP-OFDM, 1 RB, 25 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 10797 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, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10798 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10798 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87			5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791 AAE 5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.83 19.6 10792 AAD 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.92 19.6 10793 AAD 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 19.6 10794 AAD 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 19.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 19.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 19.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.89 19.6 10797 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.89 19.6 10799 AAD 5G NR (CP-OFDM, 1 RB, 80MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.83 19.6 10802 AAD 5G NR (CP-OFDM, 1 RB, 80MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.83 19.6 10803 AAD 5G NR (CP-OFDM, 1 RB, 100MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.83 19.6	j	4		5G NR FR1 TDD	8.37	±9,6
10792 AAD SG NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.92 ±9.6 10793 AAD SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.92 ±9.6 10794 AAD SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.82 ±9.6 10795 AAD SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.84 ±9.6 10796 AAD SG NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.84 ±9.6 10797 AAD SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.82 ±9.6 10798 AAD SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.83 ±9.6 10799 AAD SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.83 ±9.6 10801 AAD SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.83 ±9.6 10802 AAD SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.83 ±9.6 10802 AAD SG NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 KHz) SG NR FR1 TDD 7.83 <		. <u> </u>		5G NR FR1 TDD	8.39	±9.6
10793 AAD 5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.95 ±9.6 10794 AAD 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.84 ±9.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.82 ±9.6 10797 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.82 ±9.6 10798 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.83 ±9.6 10799 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.83 ±9.6 10801 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.87 ±9.6 10802 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAD 5G NR (CP-OFDM, 1 RB, 100MHz, QPSK, 30KHz) 5G NR FR1 TDD 7.83 ±9.6 10804 AAD 5G NR (CP-OFDM, 50% RB, 10MHz, QPSK, 30KHz) 5G NR FR1 TDD 8.34 ±9.6 </td <td></td> <td></td> <td></td> <td>5G NR FR1 TDD</td> <td>7.83</td> <td>±9.6</td>				5G NR FR1 TDD	7.83	±9.6
10794 AAD 5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 ±9.6 10795 AAD 5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.84 ±9.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 30MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 ±9.6 10797 AAD 5G NR (CP-OFDM, 1 RB, 40MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.82 ±9.6 10798 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.93 ±9.6 10799 AAD 5G NR (CP-OFDM, 1 RB, 60MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.93 ±9.6 10801 AAD 5G NR (CP-OFDM, 1 RB, 60MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAD 5G NR (CP-OFDM, 1 RB, 60MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAD 5G NR (CP-OFDM, 1 RB, 100MHz, QPSK, 30kHz) 5G NR FR1 TDD 7.83 ±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, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6				5G NR FR1 TDD	7.92	±9.6
10795 AAD 5G NR (CP-OFDM, 1 RB, 26 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10796 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±9.6 10797 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 ±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, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10803 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10805 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10809 AAD <td></td> <td></td> <td></td> <td>5G NR FR1 TDD</td> <td>7.95</td> <td>±9.6</td>				5G NR FR1 TDD	7.95	±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 7.82 ±9.6 10798 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAD 5G NR (CP-OFDM, 1 RB, 60 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, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10804 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10805 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34				5G NR FR1 TDD	7.82	±9.6
10797 AAD 5G NR (CP-OFDM, 1 RB, 40MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.01 ±9.6 10798 AAD 5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10799 AAD 5G NR (CP-OFDM, 1 RB, 60MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.93 ±9.6 10801 AAD 5G NR (CP-OFDM, 1 RB, 80MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10802 AAD 5G NR (CP-OFDM, 1 RB, 80MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 ±9.6 10803 AAD 5G NR (CP-OFDM, 1 RB, 90MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±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, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±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, 60 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				5G NR FR1 TDD	7.84	±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, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 ±9.6 10801 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.87 ±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, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.83 ±9.6 10806 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, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ±9.6 10810 AAD 5G NR (CP-OFDM, 50% RB, 0 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ±9.6 10811 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 ±9.6 10812 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.35 </td <td></td> <td></td> <td></td> <td></td> <td>7.82</td> <td>±9.6</td>					7.82	±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, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10803 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 ±9.6 10805 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±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 10807 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
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, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10806 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, 15MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10807 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 10812 AAD 5G NR (CP-OFDM, 100% RB, 5MHz, 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.		<u> </u>		1	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 7.87 ±9.6 10805 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 8.34 ±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 10817 AAE 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9.6 10818						±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 8.33 ±9.6 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±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 10812 AAD 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9.6 10817 AAE 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10818 AAD 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 ±9.6 10820						±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, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±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, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9.6 10818 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10818 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD						±9.6
10806 AAD 5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 30kHz) 5G NR FR1 TDD 8.37 ±9.6 10809 AAD 5G NR (CP-OFDM, 50% RB, 30MHz, QPSK, 30kHz) 5G NR FR1 TDD 8.34 ±9.6 10810 AAD 5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 30kHz) 5G NR FR1 TDD 8.34 ±9.6 10810 AAD 5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 30kHz) 5G NR FR1 TDD 8.34 ±9.6 10812 AAD 5G NR (CP-OFDM, 50% RB, 60MHz, QPSK, 30kHz) 5G NR FR1 TDD 8.35 ±9.6 10817 AAE 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30kHz) 5G NR FR1 TDD 8.35 ±9.6 10817 AAE 5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30kHz) 5G NR FR1 TDD 8.34 ±9.6 10818 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 ±9.6 10819 AAD 5G NR (CP-OFDM, 100% RB, 20 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 8.41 ±9.6 10821 A						
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 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, 5MHz, 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, 20 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 10822 <td></td> <td></td> <td></td> <td></td> <td>8.34</td> <td></td>					8.34	
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, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9.6 10817 AAE 5G NR (CP-OFDM, 100% RB, 50 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, 20 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 8.39 ±9.6 10824				· · · · · · · · · · · · · · · · · · ·	8.37	±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, 5MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 ±9.6 10817 AAE 5G NR (CP-OFDM, 100% RB, 5MHz, 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 8.34 ±9.6 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ±9.6 10824 <td></td> <td></td> <td></td> <td>5G NR FR1 TDD</td> <td>8.34</td> <td>±9.6</td>				5G NR FR1 TDD	8.34	±9.6
10817 AAE 5G NR (CP-OFDM, 100% RB, 5MHz, 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 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 10824 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 ±9.6 10825					8.34	±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 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, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9.6					8.35	±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 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 10824 AAD 5G NR (CP-OFDM, 100% RB, 60 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			5G NH (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±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, 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, 30 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 10824 AAD 5G NR (CP-OFDM, 100% RB, 60 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				5G NR FR1 TDD	8.34	±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, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 ±9.6 10824 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				5G NR FR1 TDD	8.33	±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					8.30	±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		f			8.41	±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]		5G NR FR1 TDD	8.41	±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				5G NR FR1 TDD	8.36	±9.6
10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 ±9.6				5G NR FR1 TDD	8.39	±9.6
					8.41	±9.6
10828 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 ±9.6		· · · · · · · · · · · · · · · · · · ·			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

ulD	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k = 2$
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	$\frac{1}{\pm 9.6}$
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	±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 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
10846	AAD	5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6
10854	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.41	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.34	±9.6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.36	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 KHz)	5G NR FR1 TDD	8.37	±9.6
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.35	±9.6
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36 8.34	±9.6
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	±9.6 ±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±9.6 ±9.6
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	±9.6
10871	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872 10873	AAE AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz) 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 KHz)	5G NR FR2 TDD 5G NR FR2 TDD	8.39	±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95 8.41	±9.6
10879	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6 ±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	±9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	±9.6
10883	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10888	AAE AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10890	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
10891	AAE	5G NR (CP-OFDM, 100% HB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD 5G NR FR2 TDD	8.13	±9.6
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 30 kHz)	5G NR FR2 TDD	8.41 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 ±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 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 (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
		20111 (0110 01 0 WI, 0070 110; 20 WITZ, GEON, 30 KTZ)	5G NR FR1 TDD	5.83	±9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
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
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 AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	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		5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC 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 (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC		5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAC		5G NR FR1 FDD	5.51	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.77	±9.6
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9,6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.83	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85 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 ±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, 15MHz, QPSK, 15kHz)	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	1.16	±9.6
10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
10980	AAA	ULLA HDR8	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	<u>+</u> 9.6

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^E k = 2$
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD		± 9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9,42	
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD		±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD		±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)			±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 KHz)	5G NR FR1 TDD		±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 KHz)	5G NR FR1 TDD	0.00	±9.6
		(01 01 01 01 01, 111 0.1, 00 MIRZ, 04-QAW, 30 KHZ)	5G NR FR1 TDD	9.52	±9.6

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

Client

Element

Certificate No

MAGPy-H3D-2051

CALIBRATION CERTIFICATE Object MAGPy-H3D SN: 2051 MAGPy-DAS SN: 2051

Calibration procedure(s)	QA CAL-48.v1 Calibration Procedure for MAGPy-8H3D+E3D Near-field Electric and Magnetic Field Sensor System
Calibration date	March 5, 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 U8481A	SN: MY60350004	01-Sep-20 (No. U4848AMY60350004)	Dec-22
Power Meter R&S NRP-18A	SN: 101393	24-Jul-20 (in house check Jan-21)	In house check Jan-23
Calibration Kit HP 85032B	SN: 3217A11606	01-Jan-20 (in house check Jan-20)	Sept-22

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Network Analyzer Keysight	SN: MY49810822	23-Oct-19(4364810-5332750-1)	In house check: Oct-22
E5061B			

	Name	Function	Signature
Calibrated by	Mischa Sabathy	Senior RF Engineer	14.5/4/
Approved by	Sven Kühn	Deputy Manager	ŚŁ
This calibration certifica	ate shall not be reproduced excep	t in full without written approval of	Issued: March 16, 2022 the laboratory.

Glossary

MAGPy-H3D Magnetic Amplitude and Gradient Probe – Single Sensor MAGPy-DAS Magnetic Amplitude and Gradient Data Acquisition System

Calibration is Performed According to the Following Standards:

a) IEEE Std 1309-2013, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", November 2013

Methods Applied and Interpretation of Parameters

- *Linearity*: Calibration of the linearity of the field reading over the specified dynamic range. Influence of offset voltage is included in this measurement.
- Frequency response: Calibration of the field reading over the specified frequency range.
- Receiving Pattern: Assessed for H-field polarizations ϑ , and $\phi = 0^{\circ}...360^{\circ}$; $\vartheta = 90^{\circ}$, and $\phi = 0^{\circ}...360^{\circ}$; for the XYZ sensors (in TEM-Cell at 10 kHz, 100 kHz and 1 MHz).
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
 - Battery characteristics: Typical values for information. A battery alarm signal is generated when the supply voltage drops below the specified level.

Reported Uncertainty

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

Measurement Conditions

Unit Type	MAGPy-H3D (SP MGY 302 AA)	2051
	MAGPy-DAS-WPT (SE UMS 302 AA)	2051
	MAGPy FPGA Board	WP000100
Adjustment Date	Last MAGPy Adjustment	March 5, 2022
Firmware SW Version	MAGPy Firmware	Ver. 0.96
Backend SW Version	MAGPy Backend	Ver. 1.0.2
Calibration SW Version	MAGACAP	Ver. 0.9

Dynamic Range

Dynamic Range, H-field, Channel 0

H-field/(A/m) Target		H-field/(A/m) Reading			Difference in dB			Acceptance	
x	ý í	τ̈́ z	x	y	z	x	У	z	in dB (k=2)
0.290	0.310	0.280	0.300	0.290	0.280	-0.29	0.58	0.00	±8.96
0.390	0.400	0.370	0.400	0,390	0.380	-0.22	0.22	0.23	±7.60
0.530	0.520	0.500	0.540	0,520	0.510	-0.16	0.00	-0.17	±6.26
0.720	0.670	0.680	0.730	0.700	0.690	-0.12	-0.38	-0.13	±5.00
0.960	0.930	0.910	0.980	0.950	0.930	-0.18	-0.18	-0.19	±3.99
1.30	1.26	1.23	1.32	1.28	1.25	-0.13	-0.14	-0.14	±3.11
1.75	1.71	1.66	1.78	1.73	1.69	-0.15	-0.10	-0.16	±2.41
2.34	2.28	2.22	2.38	2.31	2.25	-0.15	0.11	-0.12	±1.86
3.15	3.07	3.00	3.21	3.12	3.04	-0.16	0.14	-0.12	±1.42
4.27	4,14	4.06	4.33	4.21	4.10	0.12	-0.15	-0.09	±1.07
5.78	5,59	5.48	5.84	5.69	5.54	-0.09	-0.15	-0.10	±0.80
7.78	7.47	7.33	7.79	7.59	7.40	-0.01	-0.14	-0.08	±0.60
10.5	10.1	9.88	10.5	10.2	9.98	0.01	-0.13	-0.09	±0.20
14.2	13.7	13.3	14.2	13.8	13.5	-0.01	-0.10	-0.09	±0.20
19.0	18.5	18.0	19.1	18.7	18.2	0.03	-0.07	-0.06	±0.20
25.4	24.8	24.1	25.4	24.9	24.2	-0.03	-0.04	-0.07	±0.20
34.4	33.6	32.6	34.5	33.7	32.9	-0.04	-0.04	-0.06	±0.20
46.2	45.2	44.0	46.1	45.1	43.9	0.01	0.02	0.02	±0.20
61.8	60.5	58.9	61.7	60.5	58.8	0.01	0.01	0.02	±0.20
82.7	81.1	78.9	82.6	81.0	78.7	0.01	0.01	0.02	±0.20
109	107	104	109	107	104	0.01	0.01	0.01	±0.20
149	147	143	149	146	142	0.01	0.03	0.02	±0.20
194	190	185	193	190	184	0.03	0.03	0.03	±0.20
267	262	255	266	261	253	0.04	0.05	0.04	±0.20
378	372	361	376	369	359	0.04	0.05	0.05	±0.20
540	531	515	546	537	521	-0.09	-0.09	-0.10	±0.20
807	795	772	812	800	776	-0.06	0.05	-0.05	<u>+0.20</u>
1210	1200	1160	1210	1200	1160	-0.01	0.00	0.00	±0.20
2050	2020	1960	2040	2010	1950	0.05	0.07	0.06	±0.20
2450	2410	2340	2430	2390	2320	0,07	0.07	0.07	±0.20

H-field linearity acceptance criteria: All calibration points with sufficient signal to noise ratio (above levels of 10.0 A/m) shall be within < 0.20 dB (k=1.73).

Frequency Response

Frequency Response, H-field, Channel 0

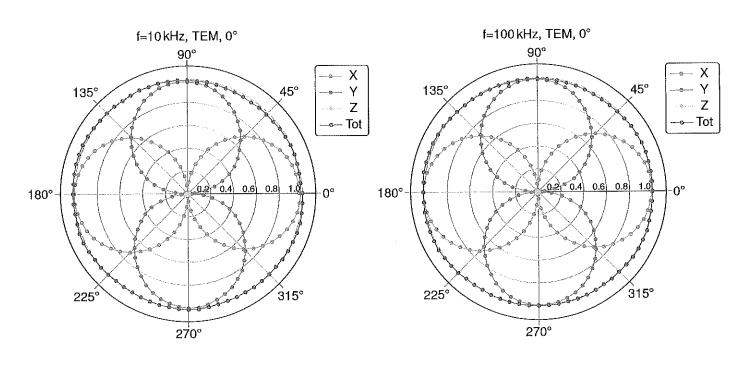
	H-fiel	d/(A/m) Ta	rget	H-field	l/(A/m) Rea	ading	Diffe	erence ir	dB	Acceptance
f/Hz	x	`y ∣	z	x	y	z	x	У	z	in dB (k=2)
3000	0.892	0.893	0.892	0.895	0.898	0.896	-0.03	-0.05	-0.04	±0.95
3257	0.894	0.894	0.894	0.891	0.904	0.902	0.03	-0.10	-0.08	±0.95
4 1 2 5	0.897	0.897	0.897	0.902	0.905	0.912	-0.05	-0.08	-0.14	±0.95
5223	0.894	0.901	0.901	0.906	0.913	0.911	-0.12	-0.11	-0.10	±0,95
6615	0.898	0.905	0.905	0.906	0.914	0.911	-0.08	-0.09	-0.06	±0.95
8377	0.902	0.908	0.908	0.919	0.918	0.917	0.16	-0.10	0.09	±0.95
10608	0.911	0.911	0.911	0.916	0.919	0.913	-0.05	-0.08	-0.02	±0.95
13434	0.913	0.913	0.913	0.917	0.922	0.918	-0.04	-0.09	-0.05	±0.95
17013	0.914	0.914	0.914	0.920	0.924	0.918	0.06	-0.09	-0.04	±0.95
21544	0.915	0.915	0.915	0.924	0.925	0.927	-0.09	-0.09	-0.11	±0.95
27283	0.915	0.915	0.915	0.922	0.924	0.924	-0.07	-0.09	-0.09	±0.95
34551	0.915	0.915	0.915	0.922	0,925	0.924	-0.07	-0.09	-0.09	±0,95
43755	0.915	0.915	0.915	0.921	0.923	0.918	-0.06	-0.08	-0.03	±0.95
55410	0.915	0.915	0.915	0.922	0.922	0.925	-0.07	-0.07	-0.09	±0.95
70170	0.915	0.915	0.915	0.922	0.925	0.923	-0.07	-0.09	-0.08	±0.95
88862	0.915	0.915	0.915	0.922	0.925	0.925	-0.07	-0.09	-0.09	±0.95
112534	0.915	0.915	0.915	0.923	0.922	0.922	-0.08	-0.07	-0.07	±0.95
142510	0.915	0.915	0.915	0.921	0.927	0.924	-0.06	-0.11	-0.09	±0.95
180472	0.914	0.914	0.914	0.921	0.924	0.922	-0.07	-0.09	-0.08	±0.95
228546	0.914	0.914	0.913	0.923	0.923	0.922	-0.09	-0.09	-0.09	±0.95
289427	0.910	0.910	0.910	0.919	0.920	0.918	-0.09	-0.09	0.08	±0.95
366524	0.900	0.901	0.900	0.908	0.911	0.910	-0.08	-0.10	-0.10	±0.95
464159	0.869	0.869	0.869	0.876	0.878	0.877	-0.07	-0.09	-0.08	±0.95
587802	0.936	0.935	0.935	0.942	0.945	0.944	-0.06	-0.09	-0.08	±0.95
744380	0.937	0.937	0.937	0.944	0.942	0.946	-0.06	-0.05	-0.08	±0.95
942668	0.943	0.943	0.943	0.951	0.954	0.953	-0.07	-0.10	0.09	±0.95
1 193 777	0.947	0.947	0.947	0.955	0.952	0.958	-0.07	-0.05	-0.10	±0.95
1511775	0.949	0.949	0.948	0.956	0.953	0.959	-0.06	-0.04	-0.10	±0.95
1914482	0.952	0.951	0.951	0.958	0.959	0.961	0.05	-0.07	-0.09	±0.95
2424462	0,956	0.956	0.956	0.961	0.962	0.966	-0.05	-0.05	-0.09	±0.95
3070291	0.959	0,959	0.959	0.967	0.966	0.971	-0.07	-0.06	-0.11	±0.95
3888155	0.960	0.960	0.960	0.968	0.949	0.970	-0.07	0.10	-0.09	±0.95
4923883	0.962	0,962	0.962	0.969	0.976	0.971	-0.06	-0.13	-0.08	±0.95
6235507	0.963	0.963	0.963	0.970	0.964	0.965	-0.06	-0.01	-0.02	±0.95
7896523	0.972	0.972	0.972	0.977	0.971	0.976	-0.04	0.01	-0.04	±0.95
10000000	0.984	0.984	0.984	0,992	0.994	0.991	-0.07	-0.09	-0.06	±0.95

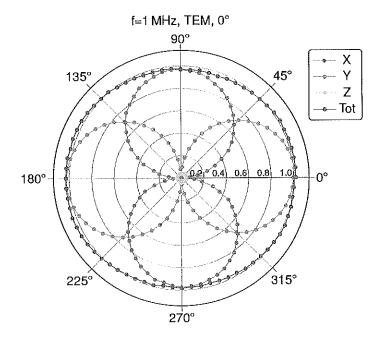
H-field calibration acceptance criteria: 95% of the calibration points shall be within < 0.95 dB as per manufacturer specifications. All calibration points shall be within < 1.35 dB, corresponding to a coverage probability of 99.73%.

Uncertainty of the H-field calibration measurement is ± 0.95 dB (k=2).

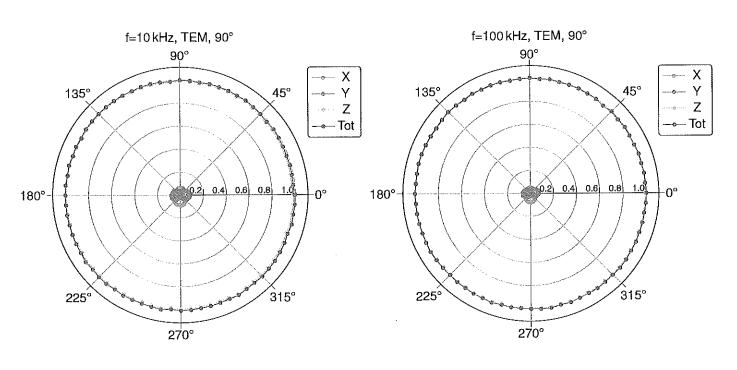
March 5, 2022

Isotropy H-Field

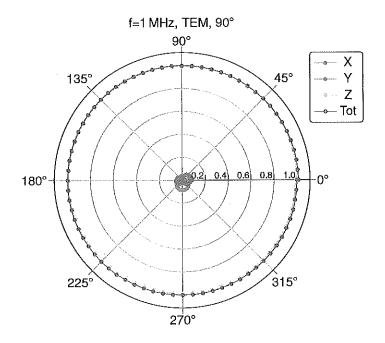




H-Field Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



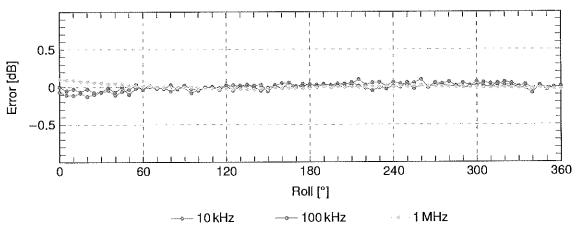
H-Field Receiving Pattern (ϕ), ϑ = 90 °



H-Field Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$ 0.5 Error [dB] 0 -0.5 360 180 240 300 0 120 60 Roll [°] ------ 100 kHz $\sim -1 \ MHz$

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

H-Field Receiving Pattern (ϕ), $\vartheta = 90^{\circ}$



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

Appendix

Battery Characteristics (Typical values for information)

Nominal Battery Voltage	14.414.8 V
Low Battery Alarm Voltage	8.45 V
Battery Capacity	2600 mAh

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

Client Element		Certificate	No:V-Coll50/400-1012_Mar22
CALIBRATION	I CERTIFICAT	Έ	
Object	V-Coil50/400 -	SN: 1012	
Calibration procedure(s)	QA CAL-47.v1 Calibration Pro	cedure for MAGPy Validation So	urce / A 4 05/12/2022
Calibration date:	March 9, 2022		
		national standards, which realize the physical e probability are given on the following pages	
All calibrations have been co	onducted in the closed labora	atory facility: environment temperature (22 \pm 3	3)°C and humidity < 70%.
Calibration Equipment used	(M&TE critical for calibration)	
Primary Standards		Cal Date (Certificate No.)	Scheduled Calibration
MAGPy-H3D/DAS	SN: 1017/1017	20-Jun-21 (MAGPy-H3D-1017)	Jun-22
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
	Name	Function	Signature
Calibrated by:	Jingtian Xi	Project leader	Jugon 12=
Approved by:	Niels Kuster	Quality Manager	X.
		and the second se	Issued: March 15, 2022
This calibration certificate sh	nall not be reproduced excep	t in full without written approval of the laborat	ory.

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

Glossary:

V-Coil50/400 system check and validation source

Calibration is Performed According to the Following Standards:

• Internal procedure QA CAL-47-Calibration procedure for sources from 3 kHz to 10 MHz

Additional Documentation:

a) DASY8 Module WPT Manual

Methods Applied and Interpretation of Parameters:

- *Measurement Conditions:* The verification sources are switched on for at least 10 minutes. The current in time domain is measured prior and after the measurement with the oscilloscope to verify that harmonics can be neglected. Then the current is measured with the voltmeter and an FFT analysis of the time domain signal is performed to derive the amplitude of the fundamental current component (see the Appendix for the conversion).
- Source Positioning: The Validation Source is placed in the center of the platform such that the device surface is parallel to phantom surface. Initial probe location is the center of the coil and the distance of the probe tip to the surface of <0.1mm is verified using mechanical gauge.
- *H-field distribution:* H field is measured in the volume above the Validation Source in a rectilinear grid of 7mm x 7mm x 7mm.
- *H-field at 2mm and Induced Values at 2mm:* The H-field and the induced field and current quantities at the surface inside the infinite the virtual half space phantom ($\varepsilon_r = 4.34 \times 10^3$, $\sigma = 0.355$ S/m) at the distance of 2mm from the surface are reconstructed quantities.

Calibrated Quantity

The calibration quantities are induced peak E-field (2mm cube average), induced peak E-field (5mm line average), induced peak current density (1cm² area average), induced peak spatial SAR (1g and 10g averaged) at 2mm (+/-0.1) from the surface or 4.7 mm from the physical coil (PCB thickness = 1.7 mm, surface film thickness = 1.0 mm).

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

Measurement Conditions

	V-Coil50/400	1012
Object model	Frequency	400 kHz
	MAGPy-H3D	1017
Probe model	MAGPy-DAS	1017
	MAGPy FPGA Board	WP000029
	cDASY6 Module WPT	1.2.0.8
Software version	Notebook GUI	1.2.5
	Sim4Life	6,2.0,4280
<u> </u>	Туре	Dynamic
Scan setup	Grid size	X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Calibrated Parameters: 400 kHz

Vietuol H		Unc.	Induced peak current	Induced field(•	peak sp (mV	Unc.		
Phantom from the Surface	field (A/m)	(k=2) (dB)	density, 1cm² area avg. (A/m²)	2mm cube avg.	5mm line avg.	1g avg.	10g avg.	(k=2) (dB)	
2.00 mm	251	1.23	1.38	4.65	4.76	3.94	1.93	1.59	

Appendix (Additional assessments outside the scope of SCS 0108)

Total current measurement

	U (V)	l (A, = U)
Total current (RMS)	0.8132	0.8132

Current spectrum measurement

Frequency (kHz)	Measured power (dBm)	Power coverted (W)	U (V) (R = 50 Ω)	I (A)	I _{normalized} (A)
400	10.9	1.23E-02	0.7843	0.7843	0.7954
1200	-22.1	6.17E-06	0.0176	0.0143	0.0178

Measurement report

cDASY6 Module WPT Measurement Report

Device under test

Model / Manufacturer: V-Coll50/400 & SPEAG

Serial number: SN1012

Dimensions:

Measurement scenario: full auto scan, ref probe

Measurement results

Maximum H-field: 162.96 A/m (rms)

Locetion of maximum relative to DUT: X: 0.00 m, Y: 0.00 m, Z: 7.00 mm

Maximum H-field (x, y, z): 134.30 A/m, 135.21 A/m, 229.86 A/m

Peak frequency: 400.00 kHz (median)

Distance to -20.0 dB boundary: 39.60 mm



DASY version: cDASY6 Module WPT, 1.2.0.8 Notebook version:

1.2.5

10²

10¹

10 H-field (A/m)

10⁻¹

\$0⁻⁹

10

10

Probe model / serial number; Single Probe with reference / WP000029

H-field magnitude at maximum

Scan setup

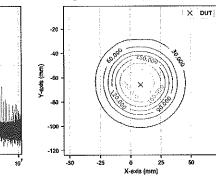
Type: Dynamic

Resolution: X: 7.00 mm, Y: 7.00 mm, Z: 7.00 mm

Dimensions: X: 126.00 mm, Y: 119.00 mm, Z: 56.00 mm

Completed on: 2022/03/09 12:34:58

H-field magnitude at lowest plane



Induced quantities in the anatomical model $(I = 400.00 \text{ kHz}, \sigma = 0.355 \text{ SAm, reconstruction error} = 6.4\%)$

			Peak Eind (V/m. ms)		Peak Jind (A/m^2. rms)			
	Spacing (mm)	Peak Hinc (A'm, rms)	Cube avg.	Line avg.	Surface avg.	1g avg.	10g avg.	-20 dB radius (mm)
	2.00	251	4.65	4.76	1.38	3.94	1.93	38.6

10

10

Frequency (Hz)

10

Standard compliance evaluation

1	IGNIRP 2020 (dB)			ICNISP 199	IIRP 1998 (dB)			IEEE 2019 (dB)			FCC 2020 (dB)			HC Code 6 (dB)		
	Spacing (mm)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Jind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (8R)	Peak Hinc (RL)	Peak Eind (BR)	psSAR (BR)
humana	2.00	26.7	-21.1	-30.1	43.2	4.88	-30.1	9.28	-24.7	-30.1	44.0	-21.2	-28.1	43.2	-21.2	-26.1

Standard compliance evaluation (coverage factor-adjusted) (Coefficients: wee = 3.0, wei = 2.0, wi = 1.0, wsARIg = 1.0, wsARIg = 1.0, the start of th

	ICNIRP 2020 (dB)		ICNIRP 1998 (dB)		JEEE 2019 (dB)		FCC 2020 (dB)		HC Code 6 (dB)	
Spacing (mm)	Peak Eind (BR)	psSAR (BR)	Peak Jind (BR)	psSAR (BR)	Peak Eind (BR)	psSAR (BR)	Peak Eind (BR)	ps SAR (BR)	Peak End (BR)	psSAR (BR)
2.00	-13.9	-31.3	2,62	-31.3	-21.0	-31.3	-13.9	-27.2	-13.9	-27.2

Document generated at 2022/03/15 12:32:17, Sim4Life version: 6.2.0.4280

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



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Accreditation No.: SCS 0108

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Client	EI	en	ne	nt

Certificate No: D5GHzV2-1057_Jan22

CALIBRATION CERTIFICATE

Object	D5GHzV2 - SN:1057	
Calibration procedure(s)	QA CAL-22.v6 Calibration Procedure for SAR Validation Sources between 3-1	10 GHz BN ^V 2-10-2022
Calibration date:	January 10, 2022	PN✓ 1-25-2023

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	1D #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
Type-N mismatch combination	SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
Reference Probe EX3DV4	SN: 3503	31-Dec-21 (No. EX3-3503_Dec21)	Dec-22
DAE4	SN: 601	01-Nov-21 (No. DAE4-601_Nov21)	Nov-22
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22
	Name	Function	Signature
Calibrated by:	Jeffrey Katzman	Laboratory Technician	A. Letter
Approved by:	Sven Kühn	Deputy Manager	C G
This colliburation contificate shall not		full without written approval of the laboraton	Issued: January 20, 2022

Certificate No: D5GHzV2-1057_Jan22

Calibration Laboratory of

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





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- S Swiss Calibration Service

Accreditation No.: SCS 0108

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

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Measurement Conditions

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

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.9 ± 6 %	4.52 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.2 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	4.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.49 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	84.2 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 100 mW input power	2.41 W/kg

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.2 ± 6 %	5.02 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.15 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.8 W/kg ± 19.9 % (k=2)

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

Head TSL parameters at 5800 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.1 ± 6 %	5.07 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.1 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 100 mW input power	2.32 W/kg

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.8 ± 6 %	5.47 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.42 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	74.2 W/kg ± 19.9 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Itr'	
The second	condition	
SAR measured	100 mW input power	2.06 W/kg

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.2 ± 6 %	5.95 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.70 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	77.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.12 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.2 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.0 ± 6 %	6.16 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5750 MHz

100 mW input power	7.49 W/kg
normalized to 1W	74.9 W/kg ± 19.9 % (k=2)
	100 mW input power normalized to 1W

	Condition	
SAR measured	100 mW input power	2.07 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.7 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.9 ± 6 %	6.23 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.48 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	74.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.5 W/kg ± 19.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5250 MHz

Impedance, transformed to feed point	49.4 Ω - 6.3 jΩ
Return Loss	- 24.0 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.3 Ω - 3.4 jΩ
Return Loss	- 25.5 dB

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	52.1 Ω - 1.6 jΩ
Return Loss	- 31.8 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	50.2 Ω - 3.0 jΩ
Return Loss	- 30.5 dB

Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	48.2 Ω - 4.2 jΩ
Return Loss	- 26.7 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	55.1 Ω - 1.8 jΩ
Return Loss	- 25.8 dB

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	53.0 Ω - 0.4 jΩ
Return Loss	- 30.5 dB

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	51.4 Ω - 1.7 jΩ
Return Loss	- 33.2 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.001
Lectrical Delay (one direction)	1.201 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

Date: 10.01.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1057

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5800 MHz Medium parameters used: f = 5250 MHz; σ = 4.52 S/m; ϵ_r = 34.9; ρ = 1000 kg/m³, Medium parameters used: f = 5600 MHz; σ = 4.87 S/m; ϵ_r = 34.4; ρ = 1000 kg/m³, Medium parameters used: f = 5750 MHz; σ = 5.02 S/m; ϵ_r = 34.2; ρ = 1000 kg/m³, Medium parameters used: f = 5800 MHz; σ = 5.07 S/m; ϵ_r = 34.1; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.5, 5.5, 5.5) @ 5250 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.08, 5.08, 5.08) @ 5750 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 01.11.2021
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 76.74 V/m; Power Drift = -0.03 dBPeak SAR (extrapolated) = 27.8 W/kg SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.34 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 70.5% Maximum value of SAR (measured) = 18.3 W/kg

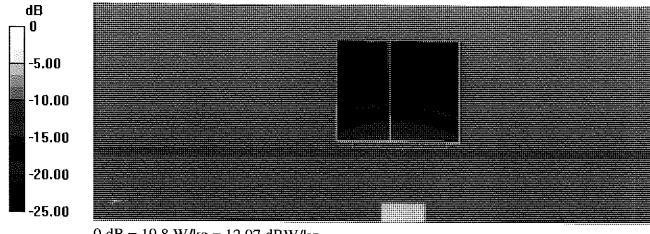
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 76.79 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 31.0 W/kg SAR(1 g) = 8.49 W/kg; SAR(10 g) = 2.41 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 67.9% Maximum value of SAR (measured) = 19.7 W/kg

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

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.27 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 31.3 W/kg SAR(1 g) = 8.15 W/kg; SAR(10 g) = 2.31 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 66.3%Maximum value of SAR (measured) = 19.3 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 74.73 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 32.1 W/kg SAR(1 g) = 8.28 W/kg; SAR(10 g) = 2.32 W/kg Smallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 66.1% Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg

Impedance Measurement Plot for Head TSL

Eile	View	<u>C</u> hannel	Sweep	Calibration	<u>Irace S</u> cale	M <u>a</u> rker Sys	tem <u>W</u> indo	w <u>H</u> elp		
					and the second			1:	5.250000 GHz 4.8222 pF	49,424 Q -6,2868 Q
					$ \land$			2:	5,600000 GHz	54.338 Ω
						\sim	~ - }~	3:	8,3354pF 5,750000 GHz	-3.4096 Ω 52.i22 Ω
					+	-1	\mathbf{X}	4:	17,657 ρF 5,800000 GHz	-1.5676 Ω 50,162 Ω
									9.1746 pF	-2.9909 Ω
						1-1-	774	$\gamma \gg R$:	5.500000 GHz	68,689 mU -102,97 *
					- t	\rightarrow		Ą.		
						$\times \rightarrow$	51	9		
					\sim					
	Ch1: Sta	- Ch 1 Awg = art: 5,00000 i		wheet					Stor	6.00000 GHz
									eroh.	
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	.00 Ch1: St	<u>Ch 1 Awg ≃</u> art 5.00000	 GHz]	6.00000 GHz
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DASY5 Validation Report for Body TSL

Date: 10.01.2022

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1057

Communication System: UID 0 - CW; Frequency: 5250 MHz, Frequency: 5600 MHz, Frequency: 5750 MHz, Frequency: 5800 MHz Medium parameters used: f = 5250 MHz; σ = 5.47 S/m; ε_r = 48.8; ρ = 1000 kg/m³, Medium parameters used: f = 5600 MHz; σ = 5.95 S/m; ε_r = 48.2; ρ = 1000 kg/m³, Medium parameters used: f = 5750 MHz; σ = 6.16 S/m; ε_r = 48.0; ρ = 1000 kg/m³, Medium parameters used: f = 5800 MHz; σ = 6.23 S/m; ε_r = 47.9; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.26, 5.26, 5.26) @ 5250 MHz, ConvF(4.79, 4.79, 4.79) @ 5600 MHz, ConvF(4.66, 4.66, 4.66) @ 5750 MHz, ConvF(4.62, 4.62, 4.62) @ 5800 MHz; Calibrated: 31.12.2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 01.11.2021
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 65.90 V/m; Power Drift = -0.06 dBPeak SAR (extrapolated) = 27.4 W/kg SAR(1 g) = 7.42 W/kg; SAR(10 g) = 2.06 W/kg Smallest distance from peaks to all points 3 dB below = 6.9 mm Ratio of SAR at M2 to SAR at M1 = 67.9% Maximum value of SAR (measured) = 17.6 W/kg

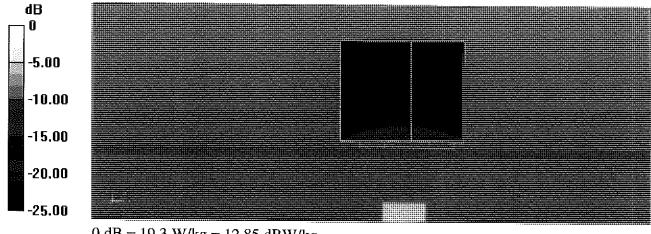
Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 65.38 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 31.7 W/kg SAR(1 g) = 7.70 W/kg; SAR(10 g) = 2.12 W/kg Smallest distance from peaks to all points 3 dB below = 6.8 mm Ratio of SAR at M2 to SAR at M1 = 64.4% Maximum value of SAR (measured) = 19.3 W/kg

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

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 63.08 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 32.3 W/kg SAR(1 g) = 7.49 W/kg; SAR(10 g) = 2.07 W/kg Smallest distance from peaks to all points 3 dB below = 6.8 mm Ratio of SAR at M2 to SAR at M1 = 62.8%Maximum value of SAR (measured) = 19.1 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 63.44 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 31.4 W/kg SAR(1 g) = 7.48 W/kg; SAR(10 g) = 2.05 W/kg Smallest distance from peaks to all points 3 dB below = 6.8 mm Ratio of SAR at M2 to SAR at M1 = 63.9% Maximum value of SAR (measured) = 18.9 W/kg



0 dB = 19.3 W/kg = 12.85 dBW/kg

Impedance Measurement Plot for Body TSL

<u>-</u> ile <u>V</u> i	ew <u>C</u> hannel	Sw <u>e</u> ep (alibration	<u>Trace S</u> cale	Marker System	Window He	elp		
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				$-\Delta$		$\mathcal{X}$	2:	7.2089 pF 5.600000 GHz	-4.2053 Ω 55.111 Ω
				- / /		4-71	3:	16.056 pF 5.750000 GHz	-1.7701 Ω
				+	$- \wedge \wedge$	1	₩.	64.503 p.F	53.041 Ω -429.07 mΩ
1					7		4:	5.800000 GHz 16.425 pF	51.445 Ω -1.6706 Ω
							> R:	5.500000 GHz	46.689 mU
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l ru	1: Start 5.00000	<u>оп</u> 2		AND A 1993 THE CONTRACTOR				Stop	6.00000 GHz
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, ,	1: Start 5.00000						1:	Stop 5.250000 GHz 5.400000-GHz	6.00000 GHz -26.654 d8 -25.772 d8
, 10.00							- <u>2;</u> 3:	5.150000 GHz 5.400000-GHz 5.150000 GHz	-26.654 d8 -25.772 d8 -30.515 d8
, 10.00 5.00							<u>2;</u>	5.250000 GHz 5.200000 GHz	-26.654 d8 -25.772 d8
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10.00 5.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.00							- <u>2;</u> 3:	5.150000 GHz 5.400000-GHz 5.150000 GHz	-26.654 d8 -25.772 d8 -30.515 d8
10.00 5.00 0.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.00 -35.00 -40.00	######################################	20					3:	5.150000 GHz 5.400000-GHz 5.150000 GHz	-26.654 d8 -25.772 d8 -30.515 d8
10.00 5.00 0.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.00 -35.00 -40.00		20					3:	5.350000 GHz 5.00000 GHz 5.750000 GHz 5.300000 GHz	-26.654 d8 -25.772 d8 -30.515 d8

### Appendix: Transfer Calibration at Four Validation Locations on SAM Head¹

### Evaluation Condition (f=5250 MHz)

Phantom	SAM Head Phantom	For usage with cSAR3DV2-R/L

### SAR result with SAM Head (Top $\cong$ C0)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	86.9 W/kg ± 20.3% (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

#### SAR result with SAM Head (Mouth $\cong$ F90)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	86.1 W/kg ± 20.3% (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR for nominal Head TSL parameters		

#### SAR result with SAM Head (Neck $\cong$ H0)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	84.2 W/kg ± 20.3% (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

#### SAR result with SAM Head (Ear $\cong$ D90)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	54.5 W/kg ± 20.3% (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR for nominal Head TSL parameters	normalized to 1W	18.3 W/kg ± 19.9 % (k=2)

¹ Additional assessments outside the current scope of SCS 0108

# Appendix: Transfer Calibration at Four Validation Locations on SAM Head²

### Evaluation Condition (f=5800 MHz)

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Dhautan		
Phantom	SAM Head Phantom	
		For usage with cSAR3DV2-R/L
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### SAR result with SAM Head (Top $\cong$ C0)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	85.3 W/kg ± 20.3 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

### SAR result with SAM Head (Mouth $\cong$ F90)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	92.2 W/kg ± 20.3% (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

### SAR result with SAM Head (Neck $\cong$ H0)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	82.3 W/kg ± 20.3% (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

### SAR result with SAM Head (Ear $\cong$ D90)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	nanga katu yang katu
SAR for nominal Head TSL parameters	normalized to 1W	58.6 W/kg ± 20.3% (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

² Additional assessments outside the current scope of SCS 0108



**ELEMENT MATERIALS TECHNOLOGY** 

(formerly PCTEST) 7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.element.com



# **Certification of Calibration**

Object

D5GHzV2 – SN: 1057

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

Extension Calibration date: 1/9/2023

Description:

SAR Validation Dipole at 5250,5600,5750,5800 MHz.

#### Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N5182A	MXG Vector Signal Generator	1/12/2022	Annual	1/12/2023	MY47420837
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA2411B	Pulse Power Sensor	3/28/2022	Annual	3/28/2023	1339007
Anritsu	MA2411B	Pulse Power Sensor	3/2/2022	Annual	3/2/2023	1126066
Anritsu	ML2496A	Power Meter	3/31/2022	Annual	3/31/2023	1138001
Anritsu	ML2496A	Power Meter	3/17/2022	Annual	3/17/2023	941001
Control Company	4040	Therm./ Clock/ Humidity Monitor	3/12/2021	Biennial	3/12/2023	210202100
Control Company	4352	Ultra Long Stem Thermometer	1/21/2022	Annual	1/21/2023	160508097
Control Company	4352	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774678
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE5011-1	Torque Wrench	12/21/2021	Biennial	12/21/2023	82475
Mini-Circuits	ZHDC-16-63-S+	Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	10/21/2022	Annual	10/21/2023	101307
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2022	Annual	5/12/2023	1070
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	6/21/2022	Annual	6/21/2023	MY53402352
SPEAG	EX3DV4	SAR Probe	3/21/2022	Annual	3/21/2023	7527
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/16/2022	Annual	3/16/2023	1272
SPEAG	EX3DV4	SAR Probe	4/20/2022	Annual	4/20/2023	7659
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	1407

Measurement Uncertainty =  $\pm 23\%$  (k=2)

	Name	Function	Signature
Calibrated By:	Tho Tong	Test Engineer	Tho Tong
Approved By:	Kaitlin O'Keefe	Senior Technical Manager	ROK

Object:	Date Issued:	Page 1 of 4	
D5GHzV2 – SN: 1057	1/9/2023	Fage 1014	

### **DIPOLE CALIBRATION EXTENSION**

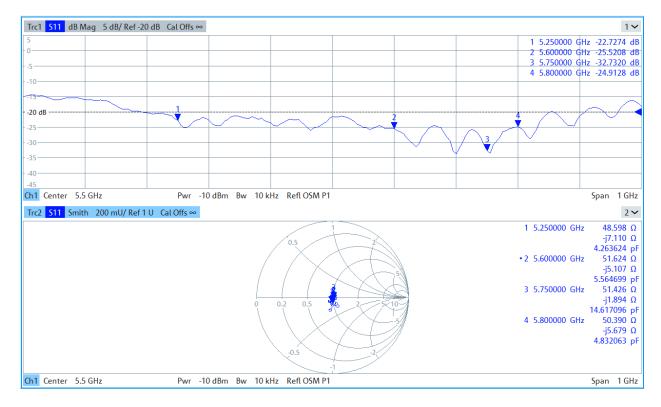
Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

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

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

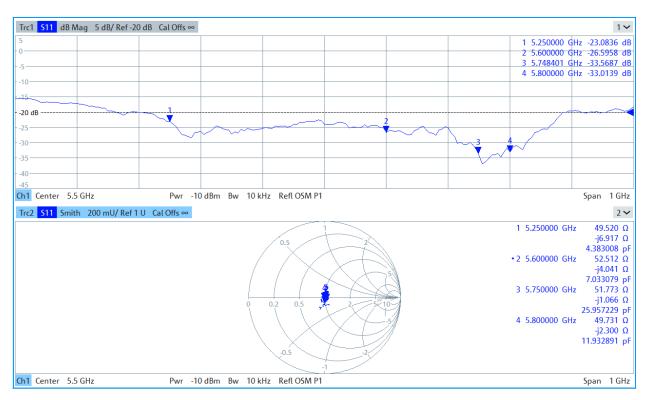
Frequency (MHz)	Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Head (1g) W/kg @ 17.0 dBm	Measured Head SAR (1g) W/kg @ 17.0 dBm	Deviation 1g (%)	Certificate SAR Target Head (10g) W/kg @ 17.0 dBm	Measured Head SAR (10g) W/kg @ 17.0 dBm	Deviation 10g (%)	Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Measured Return Loss Head (dB)	Deviation (%)	PASS/FAIL
5250	1/10/2022	1/9/2023	1.201	4.06	3.69	-9.11%	1.16	1.05	-9.48%	49.4	48.6	0.8	-6.3	-7.1	0.8	-24	-22.7	5.30%	PASS
5600	1/10/2022	1/9/2023	1.201	4.21	3.92	-6.89%	1.20	1.10	-7.95%	54.3	51.6	2.7	-3.4	-5.1	1.7	-25.5	-25.5	-0.10%	PASS
5750	1/10/2022	1/9/2023	1.201	4.04	3.73	-7.67%	1.15	1.06	-7.42%	52.1	51.4	0.7	-1.6	-1.9	0.3	-31.8	-32.7	-2.90%	PASS
5800	1/10/2022	1/9/2023	1.201	4.11	3.72	-9.38%	1.15	1.05	-8.70%	50.2	50.4	0.2	-3	-5.7	2.7	-30.5	-24.9	18.30%	PASS
Frequenc <u>i</u> (MHz)	Calibration Date	Extension Date	Certificate Electrical Delay (ns)	Certificate SAR Target Body (1g) W/kg @ 17.0 dBm	Measured Body SAR (1g) W/kg @ 17.0 dBm	Deviation 1g (%)	Certificate SAR Target Body (10g) W/kg @ 17.0 dBm	Measured Body SAR (10g) W/kg @ 17.0 dBm	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
5250	1/10/2022	1/9/2023	1.201	3.71	3.66	-1.35%	1.03	1.04	0.97%	48.2	49.5	1.3	-4.2	-6.9	2.7	-26.7	-23.1	13.50%	PASS
5600	1/10/2022	1/9/2023	1.201	3.85	3.89	1.04%	1.06	1.09	2.83%	55.1	52.5	2.6	-1.8	-4	2.2	-25.8	-26.6	-3.10%	PASS
5750	1/10/2022	1/9/2023	1.201	3.75	3.53	-5.74%	1.04	0.99	-4.54%	53	51.8	1.2	-0.4	-1.1	0.7	-30.5	-33.6	-10.10%	PASS
5800	1/10/2022	1/9/2023	1.201	3.74	3.53	-5.61%	1.03	0.99	-3.51%	51.4	49.7	1.7	-1.7	-2.3	0.6	-33.2	-33	0.60%	PASS

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#### Impedance & Return-Loss Measurement Plot for Head TSL

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#### Impedance & Return-Loss Measurement Plot for Body TSL

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