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

IMPORTANT NOTICE

USAGE OF THE DAE4

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

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

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

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

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

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

Important Note:

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

Important Note:

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

Important Note:

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

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





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Client

Audix (Auden)

Certificate No: DAE4-1337 Mar22

Accreditation No.: SCS 0108

CALIBRATION CERTIFICATE

Object DAE4 - SD 000 D04 BM - SN: 1337

Calibration procedure(s) QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date: March 29, 2022

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

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

Calibration Equipment used (M&TE critical for calibration)

	Cal Date (Certificate No.)	Scheduled Calibration
SN: 0810278	31-Aug-21 (No:31368)	Aug-22
T		
ID#	Check Date (in house)	Scheduled Check
SE UWS 053 AA 1001	24-Jan-22 (in house check)	In house check: Jan-23
SE UMS 006 AA 1002	24-Jan-22 (in house check)	In house check: Jan-23
	ID # SE UWS 053 AA 1001	1

Calibrated by:

Name

Function

Adrian Gehring

Laboratory Technician

Approved by:

Sven Kühn

Deputy Manager

Issued: March 29, 2022

Signature

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

Certificate No: DAE4-1337_Mar22

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Glossarv

DAE data acquisition electronics

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

coordinate system.

Methods Applied and Interpretation of Parameters

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

Certificate No: DAE4-1337_Mar22 Page 2 of 5

DC Voltage Measurement

A/D - Converter Resolution nominal

Calibration Factors	X	Υ	Z
High Range	404.767 ± 0.02% (k=2)	404.704 ± 0.02% (k=2)	404.890 ± 0.02% (k=2)
Low Range	3.97910 ± 1.50% (k=2)	3.97170 ± 1.50% (k=2)	4.00492 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	10.0°+1°
Commerce Angle to be ased in Brief System	10.0 ± 1

Certificate No: DAE4-1337_Mar22 Page 3 of 5

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200036.40	2.59	0.00
Channel X	+ Input	20008.95	3.23	0.02
Channel X	- Input	-20004.74	1.15	-0.01
Channel Y	+ Input	200031.02	-2.73	-0.00
Channel Y	+ Input	20003.00	-2.63	-0.01
Channel Y	- Input	-20006.30	-0.27	0.00
Channel Z	+ Input	200032.84	-0.88	-0.00
Channel Z	+ Input	20004.55	-0.99	-0.00
Channel Z	- Input	-20006.91	-0.81	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2000.35	-0.84	-0.04
Channel X	+ Input	201.39	0.05	0.03
Channel X	- Input	-199.45	-0.80	0.40
Channel Y	+ Input	2001.25	0.22	0.01
Channel Y	+ Input	200.01	-1.17	-0.58
Channel Y	- Input	-200.75	-1.94	0.97
Channel Z	+ Input	2001.19	0.17	0.01
Channel Z	+ Input	200.02	-1.09	-0.54
Channel Z	- Input	-200.10	-1.21	0.61

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-7.17	-9.14
	- 200	9.93	7.35
Channel Y	200	7.43	7.33
	- 200	-10.02	-10.21
Channel Z	200	-13.30	-14.04
	- 200	12.43	12.39

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	-0.01	-3.24
Channel Y	200	7.38	-	2.12
Channel Z	200	9.47	4.74	-

4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	16186	15683
Channel Y	16235	16773
Channel Z	16355	15622

5. Input Offset Measurement

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

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.70	-1.03	2.09	0.69
Channel Y	-0.83	-1.89	0.31	0.48
Channel Z	-0.75	-2.17	0.29	0.50

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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

Certificate No: DAE4-1337_Mar22 Page 5 of 5

Calibration Laboratory of

Schmid & Partner **Engineering AG**

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client

Auden **Taoyuan City** Certificate No.

EX-3898 Jun23

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3898

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

Calibration date

June 26, 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 NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
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)	30-Mar-23 (No. 217-03809)	Mar-24
DAE4	SN: 660	16-Mar-23 (No. DAE4-660_Mar23)	Mar-24
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

Jeton Kastrati

Laboratory Technician

Approved by

Sven Kühn

Technical Manager

Issued: July 03, 2023

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Certificate No: EX-3898 Jun23

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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 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

Calibration is Performed According to the Following Standards:

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

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- 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 ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Parameters of Probe: EX3DV4 - SN:3898

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (μ V/(V/m) ²) A	0.38	0.36	0.31	±10.1%
DCP (mV) B	104.0	104.5	105.0	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		Α	В	С	D	VR	Max	Max
			dB	dB√ μV		dB	mV	dev.	Unc ^E
					ļ				k = 2
0	CW	X	0.00	0.00	1.00	0.00	139.7	±1.9%	±4.7%
		Y	0.00	0.00	1.00		150.3		
		Z	0.00	0.00	1.00		141.9		
10352	Pulse Waveform (200Hz, 10%)	X	20.00	87.11	18.04	10.00	60.0	±2.7%	±9.6%
		Y	9.11	78.92	15.67		60.0		
		Z	8.36	78.63	15.39		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	88.46	17.58	6.99	80.0	±1.9%	±9.6%
		Y	20.00	87.21	16.75		80.0		
		Z	20.00	88.02	16.99		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	92.93	18.44	3.98	95.0	±1.3%	±9.6%
		Y	20.00	85.93	14.53		95.0		
		Z	20.00	90.37	16.68		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	101.08	20.95	2.22	120.0	±1.2%	±9.6%
		Y	0.27	60.00	4.58		120.0		
		Z	20.00	91.29	15.90		120.0		
10387	QPSK Waveform, 1 MHz	X	1.61	67.61	15.36	1.00	150.0	±3.4%	±9.6%
		Y	1.54	67.44	15.01		150.0		
		Z	1.40	65.36	13.87		150.0		
10388	QPSK Waveform, 10 MHz	X	2.09	67.98	15.86	0.00	150.0	±1.2%	±9.6%
		Y	2.07	68.22	15.83	_	150.0		
		Z	1.88	66.20	14.71		150.0		0.004
10396	64-QAM Waveform, 100 kHz	X	2.26	67.59	17.81	3.01	150.0	±1.0%	±9.6%
		Y	2.85	72.21	19.96	4	150.0	1	
		Z	2.05	65.73	16.58	0.00	150.0	. 0.00/	. 0. 00/
10399	64-QAM Waveform, 40 MHz	X	3.39	67.00	15.77	0.00	150.0	±2.9%	±9.6%
		Y	3.37	67.08	15.78		150.0	_	
1044	1/1/ 1/1 00DF 04 0 1/1 40 1/1	Z	3.25	66.25	15.23	1 000	150.0	14.00/	10.00
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.64	65.54	15.50	0.00	150.0	±4.8%	±9.6%
		Y	4.65	65.63	15.57		150.0	4	
		Z	4.55	65.19	15.21	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%.

B Linearization parameter uncertainty for maximum specified field strength.

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

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

Parameters of Probe: EX3DV4 - SN:3898

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 msV ⁻²	T2 msV ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
×	33.9	250.60	34.88	10.84	0.00	5.04	0.46	0.19	1.01
У	35.2	264.90	36.09	6.58	0.27	5.06	1.25	0.14	1.01
z	33.1	244.99	34.88	6.73	0.00	5.05	0.16	0.21	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-66.9°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

Certificate No: EX-3898_Jun23 Page 4 of 22

Parameters of Probe: EX3DV4 - SN:3898

Calibration Parameter Determined in Head 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	41.9	0.89	10.38	10.38	10.38	0.49	0.80	±12.0%
835	41.5	0.90	9.98	9.98	9.98	0.32	1.05	±12.0%
900	41.5	0.97	9.87	9.87	9.87	0.48	0.80	±12.0%
1450	40.5	1.20	8.93	8.93	8.93	0.33	0.80	±12.0%
1640	40.2	1.31	8.77	8.77	8.77	0.30	0.86	±12.0%
1750	40.1	1.37	8.71	8.71	8.71	0.30	0.86	±12.0%
1900	40.0	1.40	8.31	8.31	8.31	0.32	0.86	±12.0%
2000	40.0	1.40	8.22	8.22	8.22	0.31	0.86	±12.0%
2300	39.5	1.67	7.81	7.81	7.81	0.34	0.90	±12.0%
2450	39.2	1.80	7.64	7.64	7.64	0.35	0.90	±12.0%
2600	39.0	1.96	7.47	7.47	7.47	0.36	0.90	±12.0%
3300	38.2	2.71	6.99	6.99	6.99	0.35	1.30	±14.0%
3500	37.9	2.91	6.86	6.86	6.86	0.35	1.30	±14.0%
3700	37.7	3.12	6.75	6.75	6.75	0.35	1.30	±14.0%
3900	37.5	3.32	6.55	6.55	6.55	0.40	1.60	±14.0%
4100	37.2	3.53	6.54	6.54	6.54	0.40	1.60	±14.0%
4200	37.1	3.63	6.48	6.48	6.48	0.40	1.60	±14.0%
4400	36.9	3.84	6.41	6.41	6.41	0.40	1.70	±14.0%
4600	36.7	4.04	6.26	6.26	6.26	0.40	1.70	±14.0%
4800	36.4	4.25	6.20	6.20	6.20	0.40	1.80	±14.0%
4950	36.3	4.40	6.07	6.07	6.07	0.40	1.80	±14.0%
5250	35.9	4.71	5.41	5.41	5.41	0.40	1.80	±14.0%
5600	35.5	5.07	4.83	4.83	4.83	0.40	1.80	±14.0%
5750	35.4	5.22	4.98	4.98	4.98	0.40	1.80	±14.0%
5850	35.2	5.32	4.83	4.83	4.83	0.40	1.80	±14.0%

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

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 5\%$ from the target values (typically better than $\pm 3\%$)

Certificate No: EX-3898_Jun23 Page 5 of 22

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 5\%$ from the target values (typically better than $\pm 3\%$) and are valid for TSL with deviations of up to $\pm 10\%$. If TSL with deviations from the target of less than $\pm 5\%$ 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 ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

Parameters of Probe: EX3DV4 - SN:3898

Calibration Parameter Determined in Head 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)
6500	34.5	6.07	5.60	5.60	5.60	0.20	2.50	±18.6%
7000	33.9	6.65	5.85	5.85	5.85	0.25	2.50	±18.6%
8000	32.7	7.84	5.80	5.80	5.80	0.45	1.50	±18.6%
9000	31.6	9.08	5.75	5.75	5.75	0.52	1.80	±18.6%

^C Frequency validity at 6.5 GHz is $-600/\pm700$ MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm10\%$ from the target values (typically better than $\pm6\%$)

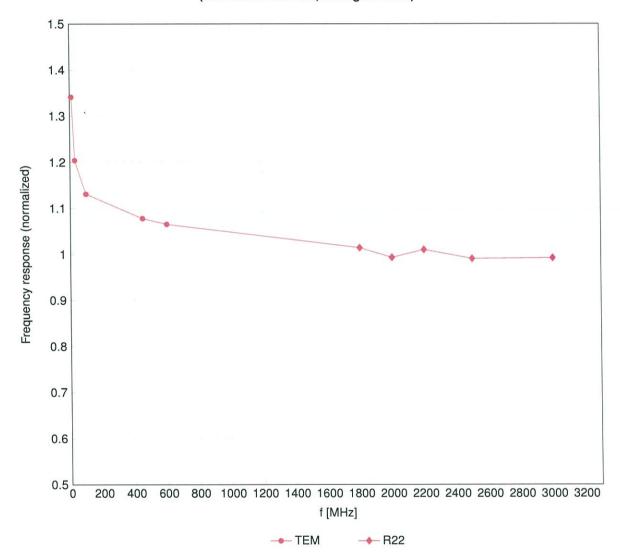
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and are valid for TSL with deviations of up to ±10%.

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

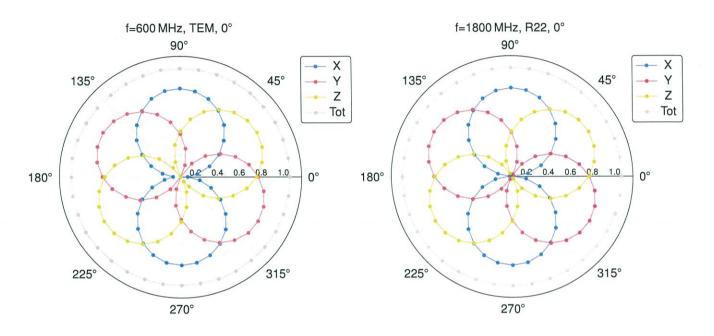
Frequency Response of E-Field

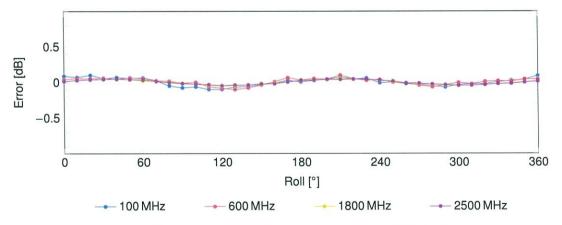
(TEM-Cell:ifi110 EXX, Waveguide:R22)



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

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

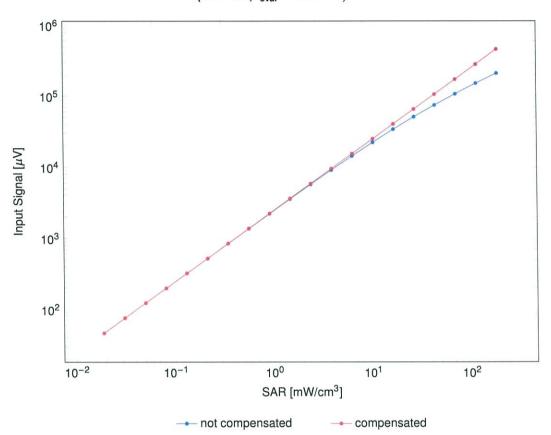


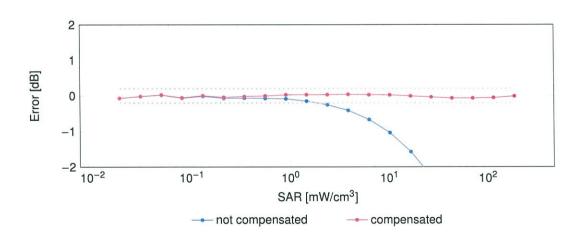


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range f(SAR_{head})

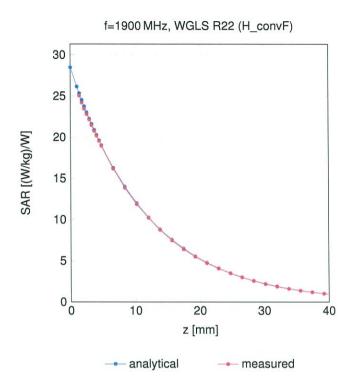
 $(\text{TEM cell, f}_{\text{eval}} = 1900\,\text{MHz})$





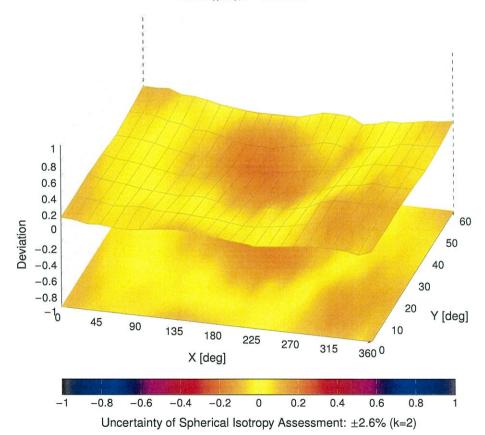
Uncertainty of Linearity Assessment: ±0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ) , f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
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	±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 GSM	4.80 3.55	±9.6 ±9.6
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	7.78	±9.6
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Bluetooth	5.30	±9.6
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1) IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6
10032	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6
10034	CAA	IEEE 802,15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6
10035	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, 1.28Mcps)	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, 2Mbps)	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		WLAN	9.83	±9.6
10072		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
10073		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN WLAN	9.94	±9.6 ±9.6
10074		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
10075 10076		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.77	±9.6
10076		IEEE 802.11g WIFI 2.4 GHZ (DSSS/OFDM, 48 Mbps)	WLAN	11.00	±9.6
10077	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6
10081		IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	±9.6
10082		GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6
10097		w	WCDMA	3.98	±9.6
10098		UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6
10099		EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6
10100		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6
10101		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10102			LTE-FDD	6.60	±9.6
10103			LTE-TDD	9.29	±9.6
10104			LTE-TDD	9.97	±9.6
10105		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6
10108			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
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1115	Davi	Communication System Name	Graup	DVD (4D)	Unc ^E k = 2
UID 10112	Rev CAH	Communication System Name LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Group LTE-FDD	PAR (dB) 6.59	±9.6
10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-FDD	6.53	±9.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6
10149	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6
10151	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10153	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6
10154	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6
10155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6
10157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6
10161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-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, 1.4MHz, 64-QAM)	LTE-FDD	6.79	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10171	AAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10174		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, QPSK)	LTE-FDD	5.72	±9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10177		LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6
10178			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		LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10181	1	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6
10182		LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
10183		LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50 5.73	±9.6 ±9.6
10184		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6
10185		LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6
10186	_	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	5.73	±9.6
10187			LTE-FDD	6.52	±9.6
10188			LTE-FDD	6.52	±9.6
10189		IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
10 193		IEEE 802.11n (HT Greenfield, 8.5 Mbps, BFSN)	WLAN	8.12	±9.6
10194			WLAN	8.21	±9.6
10195		· · · · · · · · · · · · · · · · · · ·	WLAN	8.10	±9.6
10196			WLAN	8.13	±9.6
10197	_	· · · · · · · · · · · · · · · · · · ·	WLAN	8.27	±9.6
10198			WLAN	8.03	±9.6
10219		*	WLAN	8.13	±9.6
10220			WLAN	8.27	±9.6
10221			WLAN	8.06	±9.6
10222			WLAN	8.48	±9.6
10223			WLAN	8.08	±9.6
10224	, OAD	THE OCCUPATION OF WANTY	110/114	1 0.00	1 19.0

19225 CAC URTS-FDD (195PM) 18,1 AIMH2, 16-CAM) UTE-TDD 8-95	UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E $k=2$
1922F CAC LIE-TID (SC-PDMA, 1 RB, 1.4MHz, 16-OAM)						
19227 CAC L'ET'DD (SC-PDMA, 1 RB, 1 AHMS, 0 40 AMA) L'ET'DD 9.22 9.9		CAC	, ,			
19229 CAE. LIE-TOD (SC-PDMA, 1 RB, 3MHz, 16-CAM) LIE-TOD 9.48 9.88 9.88 19231 CAE. LIE-TOD (SC-PDMA, 1 RB, 3MHz, 16-CAM) LIE-TOD 19.5 9.88 19231 CAE. LIE-TOD (SC-PDMA, 1 RB, 3MHz, CPSK) LIE-TOD 19.5 9.88 19.80 CAE. LIE-TOD (SC-PDMA, 1 RB, 5MHz, 16-CAM) LIE-TOD 19.5 9.80 CAE. LIE-TOD (SC-PDMA, 1 RB, 5MHz, 16-CAM) LIE-TOD 19.5 9.80 CAE. LIE-TOD (SC-PDMA, 1 RB, 5MHz, 16-CAM) LIE-TOD 19.25 9.80 CAE. LIE-TOD (SC-PDMA, 1 RB, 5MHz, 16-CAM) LIE-TOD 19.25 19.80 CAE. LIE-TOD (SC-PDMA, 1 RB, 5MHz, 16-CAM) LIE-TOD 19.25 19.80 CAE. LIE-TOD (SC-PDMA, 1 RB, 15MHz, 16-CAM) LIE-TOD 19.26 LIE-TOD 19.27 L	10227	CAC		LTE-TDD	10.26	
10229 CAE LTE-TOD (SC-PDMA, 188, SMHz, 64-CAM)	10228	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6
10222 CAM	10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
TORGET CAPT LTETTOD (SC-FEMA, 1 RB, SMHz, 16-CAM) LTETTOD 10.25 59.6	10230	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
1928 CAH LTETDD (SC-PDMA, TRB, SMMz, GPGR) LTETDD 10.25 29.6	10231	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
19285 CAM LTE-TDD SC-PENMA, 1 RB, 5 MHz, 16-CAM) LTE-TDD 9.48 ±9.8 ±9.8 19285 CAM LTE-TDD SC-PENMA, 1 RB, 10 MHz, 16-CAM) LTE-TDD 9.48 ±9.8 ±9.8 19287 CAM LTE-TDD SC-PENMA, 1 RB, 10 MHz, 16-CAM) LTE-TDD 9.21 ±9.6 19287 CAM LTE-TDD SC-PENMA, 1 RB, 10 MHz, 16-CAM) LTE-TDD 9.21 ±9.6 19287 CAM LTE-TDD SC-PENMA, 1 RB, 15 MHz, 16-CAM) LTE-TDD 9.21 ±9.6 19289 CAG LTE-TDD SC-PENMA, 1 RB, 15 MHz, 16-CAM) LTE-TDD 9.21 ±9.6 19280 CAG LTE-TDD SC-PENMA, 1 RB, 15 MHz, 16-CAM) LTE-TDD 9.21 ±9.6 19281 CAG LTE-TDD SC-PENMA, 1 RB, 15 MHz, 16-CAM) LTE-TDD 9.21 ±9.6 19281 CAG LTE-TDD SC-PENMA, 1 RB, 15 MHz, 16-CAM) LTE-TDD 9.21 ±9.6 19282 CAG LTE-TDD SC-PENMA, 50 MB, 14 MHz, 16-CAM) LTE-TDD 9.82 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 14 MHz, 16-CAM) LTE-TDD 9.85 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 14 MHz, 16-CAM) LTE-TDD 9.86 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 30 MHz, 16-CAM) LTE-TDD 9.86 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 30 MHz, 16-CAM) LTE-TDD 10.06 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 30 MHz, 16-CAM) LTE-TDD 10.06 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 30 MHz, 16-CAM) LTE-TDD 10.06 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 50 MHz, 16-CAM) LTE-TDD 10.06 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 50 MHz, 16-CAM) LTE-TDD 10.09 ±9.6 19284 CAG LTE-TDD SC-PENMA, 50 MB, 50 MHz, 16-CAM) LTE-TDD 10.09 ±9.6 19286 CAG LTE-TDD SC-PENMA, 50 MB, 50 MHz, 16-CAM) LTE-TDD 10.09 ±9.6 19286 CAG LTE-TDD SC-PENMA, 50 MB, 50 MHz, 16-CAM) LTE-TDD 10.17 ±9.8 19285 CAG LTE-TDD SC-PENMA, 50 MB, 16 MHz, 16-CAM) LTE-TDD 10.17 ±9.6 19285 CAG LTE-TDD SC-PENMA, 50 MB, 16 MHz, 16-CAM) LTE-TDD 10.17 ±9.6 19285 CAG LTE-TDD SC-PENMA, 100 MB, 16 MHz, 16-CAM) LTE-TDD 10.09 ±9.6 19285 CAG LTE-TDD SC-PENMA, 10	10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
19285 CAM L'TE-TDD SC-PEMA, 1 RB, 10 MHz, 16-CAM) L'TE-TDD 10-25 ±9.8	10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
1928 CAH LTE-TDD (SC-FEMA, 1 RB, 10MHz, GPSY) LTE-TDD 9.21 9.8.	10234	CAH	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	±9.6
10287 CAM LTE-TDD (SC-PDMA, 1 RB, 15MHz, LPGAM) LTE-TDD 9.21 19.8 1028 CAG LTE-TDD (SC-PDMA, 1 RB, 15MHz, LPGAM) LTE-TDD 10.25 19.8 10.28 CAG LTE-TDD (SC-PDMA, 1 RB, 15MHz, LPGAM) LTE-TDD 10.25 19.8 10.24 CAG LTE-TDD (SC-PDMA, 1 RB, 15MHz, LPGAM) LTE-TDD 10.25 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 14MHz, 16-CAM) LTE-TDD 10.25 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 14MHz, 16-CAM) LTE-TDD 10.26 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 14MHz, 16-CAM) LTE-TDD 10.26 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 14MHz, 16-CAM) LTE-TDD 10.26 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 14MHz, 16-CAM) LTE-TDD 10.26 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 14MHz, 16-CAM) LTE-TDD 10.26 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 14MHz, 16-CAM) LTE-TDD 10.26 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 34Mtz, 16-CAM) LTE-TDD 10.26 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 54Mtz, 16-CAM) LTE-TDD 10.26 19.8 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 54Mtz, 16-CAM) LTE-TDD 10.26 19.8 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 54Mtz, 16-CAM) LTE-TDD 10.26 19.8 19.8 10.24 CAG LTE-TDD (SC-PDMA, 50% RB, 54Mtz, 16-CAM) LTE-TDD 10.26 19.8 19.8 10.25 CAH LTE-TDD (SC-PDMA, 50% RB, 54Mtz, 16-CAM) LTE-TDD 10.27 19.8 19.8 10.25 CAH LTE-TDD (SC-PDMA, 50% RB, 15Mtz, 16-CAM) LTE-TDD 10.27 19.8 19.8 10.25 CAH LTE-TDD (SC-PDMA, 50% RB, 15Mtz, 16-CAM) LTE-TDD 10.27 19.8 19.8 10.25 CAH LTE-TDD (SC-PDMA, 50% RB, 15Mtz, 16-CAM) LTE-TDD 10.17 19.8 19.8 19.8 10.25 CAH LTE-TDD (SC-PDMA, 50% RB, 15Mtz, 16-CAM) LTE-TDD 10.17 19.8 19.8 19.2 19.8 10.25 CAH LTE-TDD (SC-PDMA, 50% RB, 15Mtz, 16-CAM) LTE-TDD 10.27 19.8 19.8 19.2 19.2 19.8 19.2	10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10289 CAG LITE-TDD (SC-FDMA, 1 RB, 15MHz, 16-CAM)	10236	CAH		LTE-TDD	10.25	
10239 CAG L'E-TDD (SC-FDMA, 1 RB, 15MHz, 64-CAM)			LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)			
10241 CAG LITE-TDD (SC-FDMA, 5PR, B), 15MHz, CPSK)						
10242 CAC LTE-TDD (SC-FDMA, 50% RB, 14MHz, 16-CAM)						
10242 CAC LTE-TID (SC-POMA, 50% RB, 14MHz, 6P-SM)						1
10246 CAC LTE-TID (SC-FDMA, 50% RB, 14 MHz, CPSK) LTE-TDD 9.46 9.9.6 9.9.6 10246 CAE LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM) LTE-TDD 10.06 9.9.6 10247 CAH LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM) LTE-TDD 10.08 9.9.6 10247 CAH LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM) LTE-TDD 10.09 9.9.6 10248 CAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM) LTE-TDD 9.90 9.9.6 10249 CAH LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-OAM) LTE-TDD 9.91 9.9.6 10249 CAH LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 2 M-OAM) LTE-TDD 9.92 9.9.6 10249 CAH LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 2 M-OAM) LTE-TDD 9.29 9.9.6 10250 CAH LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 2 M-OAM) LTE-TDD 9.29 9.9.6 10250 CAH LTE-TDD (SC-FDMA, 50% RB, 16 MHz, 16-OAM) LTE-TDD 9.29 9.9.6 10250 CAH LTE-TDD (SC-FDMA, 50% RB, 16 MHz, 16-OAM) LTE-TDD 9.20 9.9.1 9.9.6 10252 CAH LTE-TDD (SC-FDMA, 50% RB, 16 MHz, 16-OAM) LTE-TDD 9.90 9.9.8 10253 CAB LTE-TDD (SC-FDMA, 50% RB, 16 MHz, 16-OAM) LTE-TDD 9.90 9.9.8 10253 CAB LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-OAM) LTE-TDD 9.90 9.9.8 10253 CAB LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-OAM) LTE-TDD 9.90 9.9.8 10255 CAB LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-OAM) LTE-TDD 9.90 9.9.8 10255 CAB LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-OAM) LTE-TDD 9.90 9.9.8 10255 CAC LTE-TDD (SC-FDMA, 100% RB, 1-MHz, 16-OAM) LTE-TDD 9.90 9.9.8 9.9.8 10255 CAC LTE-TDD (SC-FDMA, 100% RB, 1-MHz, 16-OAM) LTE-TDD 9.90 9.9.8 9.9.8 10255 CAC LTE-TDD (SC-FDMA, 100% RB, 1-MHz, 16-OAM) LTE-TDD 9.90					_{	
10246 CAE LTE-TID (SC-FDMA, 50% RB, 3MHz, 16-OAM) LTE-TIDD 10.06 ±9.6 10246 CAE LTE-TID (SC-FDMA, 50% RB, 3MHz, 6F-OAM) LTE-TIDD 9.30 ±9.6 10247 CAH LTE-TID (SC-FDMA, 50% RB, 3MHz, 6F-OAM) LTE-TIDD 9.30 ±9.6 10248 CAH LTE-TID (SC-FDMA, 50% RB, 5MHz, 16-OAM) LTE-TIDD 10.09 ±9.6 10249 CAH LTE-TID (SC-FDMA, 50% RB, 5MHz, 16-OAM) LTE-TIDD 10.09 ±9.6 10249 CAH LTE-TID (SC-FDMA, 50% RB, 5MHz, 16-OAM) LTE-TIDD 10.09 ±9.6 10249 CAH LTE-TID (SC-FDMA, 50% RB, 5MHz, 6F-OAM) LTE-TIDD 9.20 ±9.6 10250 CAH LTE-TID (SC-FDMA, 50% RB, 16MHz, 16-OAM) LTE-TIDD 9.21 ±9.6 10251 CAH LTE-TID (SC-FDMA, 50% RB, 16MHz, 16-OAM) LTE-TIDD 9.81 ±9.6 10252 CAH LTE-TID (SC-FDMA, 50% RB, 16MHz, 16-OAM) LTE-TIDD 9.81 ±9.6 10253 CAG LTE-TID (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10254 CAG LTE-TID (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10255 CAG LTE-TID (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10255 CAG LTE-TID (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-TIDD 9.20 ±9.6 10256 CAG LTE-TID (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-TIDD 9.20 ±9.6 10257 CAC LTE-TID (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-TIDD 9.20 ±9.6 10258 CAC LTE-TID (SC-FDMA, 50% RB, 15MHz, 16-OAM) LTE-TIDD 9.20 ±9.6 10259 CAC LTE-TID (SC-FDMA, 100% RB, 14MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10259 CAC LTE-TID (SC-FDMA, 100% RB, 14MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10259 CAC LTE-TID (SC-FDMA, 100% RB, 14MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10260 CAH LTE-TID (SC-FDMA, 100% RB, 15MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10261 CAE LTE-TID (SC-FDMA, 100% RB, 15MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10262 CAH LTE-TID (SC-FDMA, 100% RB, 15MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10263 CAE LTE-TID (SC-FDMA, 100% RB, 15MHz, 16-OAM) LTE-TIDD 9.90 ±9.6 10264 CAH LTE-TIDD (, , , , , , , , , , , , , , , , , , , ,			
10246 CAE LTE-TID (SC-FDMA, 50% RB, 8) MHz, G-PSK) LTE-TID (SC-FDMA, 50% RB, 10MHz, G-PSK) LTE-TID (SC-FDMA, 50% RB, 15MHz, G-DAM) LTE-TID (SC-FDMA, 100% RB, 14MHz, G-DAM) LTE-TID (SC-FDMA, 100% RB, 14MHz, G-DAM) LTE-TID (SC-FDMA, 100% RB, 14MHz, G-DAM) LTE-TID (SC-FDMA, 100% RB, 15MHz, G-DAM) LTE-TID (SC-FDMA, 100% RB, 10MHz, G-DAM) LTE-TID (SC-FDMA, 100% RB, 10M						
10246 CAE LTE-TDD (SC-FDMA, 50% RB, SMHz, 16-QAM) LTE-TDD 9.90 ±9.6 10248 CAH LTE-TDD (SC-FDMA, 50% RB, SMHz, 64-QAM) LTE-TDD 10.09 ±9.6 10248 CAH LTE-TDD (SC-FDMA, 50% RB, SMHz, 64-QAM) LTE-TDD 10.09 ±9.6 10250 CAH LTE-TDD (SC-FDMA, 50% RB, SMHz, 64-QAM) LTE-TDD 9.81 ±9.6 10250 CAH LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM) LTE-TDD 9.81 ±9.6 10251 CAH LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM) LTE-TDD 9.81 ±9.6 10252 CAH LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM) LTE-TDD 10.17 ±9.6 10252 CAH LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM) LTE-TDD 10.17 ±9.6 10252 CAH LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) LTE-TDD 10.17 ±9.6 10253 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) LTE-TDD 9.90 ±9.8 10255 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) LTE-TDD 9.20 ±9.6 10255 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM) LTE-TDD 9.20 ±9.6 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 14MHz, 64-QAM) LTE-TDD 10.08 ±9.6 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 14MHz, 64-QAM) LTE-TDD 10.08 ±9.6 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 14MHz, 64-QAM) LTE-TDD 9.98 ±9.6 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 14MHz, 64-QAM) LTE-TDD 9.98 ±9.6 10256 CAE LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.99 ±9.6 10256 CAE LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.99 ±9.6 10256 CAE LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.99 ±9.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.99 ±9.6 10261 CAE LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.92 ±9.6 10262 CAH LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.92 ±9.6 10263 CAH LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.92 ±9.6 10264 CAH LTE-TDD (SC-FDMA, 100% RB, 8MHz, 64-QAM) LTE-TDD 9.92 ±9.6 10265 CAC LTE-TDD (SC-FDMA, 100% RB, 8MHz,						
10247 CAH LITE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM) LITE-TDD 10.09 19.5 10248 CAH LITE-TDD (SC-FDMA, 50% RB, 5MHz, 40-QAM) LITE-TDD 10.09 19.5 10259 CAH LITE-TDD (SC-FDMA, 50% RB, 5MHz, 40-QAM) LITE-TDD 10.7 10251 CAH LITE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM) LITE-TDD 10.7 19.6 10252 CAH LITE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM) LITE-TDD 10.7 10253 CAH LITE-TDD (SC-FDMA, 50% RB, 10MHz, 20-QAM) LITE-TDD 10.7 19.6 10253 CAG LITE-TDD (SC-FDMA, 50% RB, 10MHz, 20-QAM) LITE-TDD 10.7 10253 CAG LITE-TDD (SC-FDMA, 50% RB, 10MHz, 20-QAM) LITE-TDD 9.24 19.6 10254 CAG LITE-TDD (SC-FDMA, 50% RB, 15MHz, 20-QAM) LITE-TDD 10.14 10255 CAG LITE-TDD (SC-FDMA, 50% RB, 15MHz, 20-QAM) LITE-TDD 10.14 19.6 10255 CAG LITE-TDD (SC-FDMA, 50% RB, 15MHz, 20-QAM) LITE-TDD 10.14 19.6 10256 CAC LITE-TDD (SC-FDMA, 100% RB, 14MHz, 20-QAM) LITE-TDD 9.20 19.8 10257 CAC LITE-TDD (SC-FDMA, 100% RB, 14MHz, 60-QAM) LITE-TDD 9.20 19.8 10258 CAC LITE-TDD (SC-FDMA, 100% RB, 14MHz, 60-QAM) LITE-TDD 9.20 19.6 10258 CAC LITE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM) LITE-TDD 9.20 19.8 10259 CAE LITE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 3MHz, 40-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 5MHz, 60-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 5MHz, 60-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 5MHz, 60-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 5MHz, 60-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-FDMA, 100% RB, 5MHz, 60-QAM) LITE-TDD 9.20 19.8 10260 CAE LITE-TDD (SC-		1				
10248 CAH LTE-TDD (SC-FDMA, 50% RB, 5MHz, 6P-CAM) LTE-TDD 9.29 9.56 10250 CAH LTE-TDD (SC-FDMA, 50% RB, 5MHz, 6P-CAM) LTE-TDD 9.29 9.56 10251 CAH LTE-TDD (SC-FDMA, 50% RB, 10MHz, 18-CAM) LTE-TDD 9.81 19.6 10252 CAH LTE-TDD (SC-FDMA, 50% RB, 10MHz, 18-CAM) LTE-TDD 9.24 19.6 10253 CAG LTE-TDD (SC-FDMA, 50% RB, 10MHz, 18-CAM) LTE-TDD 9.24 19.6 10253 CAG LTE-TDD (SC-FDMA, 50% RB, 10MHz, 18-CAM) LTE-TDD 9.24 19.6 10253 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 18-CAM) LTE-TDD 9.20 19.6 10254 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 18-CAM) LTE-TDD 10.14 19.6 10255 CAG LTE-TDD (SC-FDMA, 50% RB, 15MHz, 6P-CAM) LTE-TDD 10.14 19.6 10256 CAG LTE-TDD (SC-FDMA, 100% RB, 14MHz, 18-CAM) LTE-TDD 9.20 19.6 10257 CAC LTE-TDD (SC-FDMA, 100% RB, 14MHz, 6P-SK) LTE-TDD 9.20 19.6 10258 CAG LTE-TDD (SC-FDMA, 100% RB, 14MHz, 6P-SK) LTE-TDD 9.20 19.6 10259 CAE LTE-TDD (SC-FDMA, 100% RB, 14MHz, 6P-SK) LTE-TDD 9.84 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-CAM) LTE-TDD 9.84 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-CAM) LTE-TDD 9.87 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.87 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.87 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.83 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.83 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.83 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.83 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.83 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.83 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-CAM) LTE-TDD 9.90 19.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-C						
10250						
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10251 CAH LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-CAM) LTE-TDD 9.24 49.6 10252 CAH LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-CAM) LTE-TDD 9.90 49.6 10254 CAG LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-CAM) LTE-TDD 9.90 49.6 10255 CAG LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-CAM) LTE-TDD 10.14 49.6 10256 CAG LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-CAM) LTE-TDD 9.90 49.6 10257 CAG LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-CAM) LTE-TDD 9.96 49.6 10258 CAC LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-CAM) LTE-TDD 9.96 49.6 10258 CAC LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-CAM) LTE-TDD 9.96 49.6 10258 CAC LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-CAM) LTE-TDD 9.94 49.6 10259 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM) LTE-TDD 9.98 49.6 10259 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM) LTE-TDD 9.98 49.6 10250 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM) LTE-TDD 9.97 49.6 10260 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM) LTE-TDD 9.97 49.6 10261 CAE LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-CAM) LTE-TDD 9.24 49.6 10262 CAH LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-CAM) LTE-TDD 9.83 49.6 10263 CAH LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 6-CAM) LTE-TDD 9.24 49.6 10264 CAH LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 6-CAM) LTE-TDD 9.23 49.6 10265 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-CAM) LTE-TDD 9.23 49.6 10266 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 6-CAM) LTE-TDD 9.22 49.6 10267 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 6-CAM) LTE-TDD 9.22 49.6 10268 CAH LTE-TDD (SC-FDMA, 100% RB, 10MHz, 6-CAM) LTE-TDD 9.20 49.6 10269 CAG LTE-TDD (SC-FDMA, 100% RB, 10MHz, 6-CAM) LTE-TDD 9.90 49.6 10260 CAH LTE-TDD (SC-FDMA, 100% RB, 15MHz, 6-CAM) LTE-TDD 9.90 49.6 10267 CAH LTE-TDD (SC-FDMA, 100% RB, 15MHz, 6-CAM) LTE-TDD 9.90 49.6 10268 CAH LTE-TDD (SC-FDMA,						·
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10275 CAC UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4) WCDMA 3.96 ±9.6						
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10293 AAB CDMA2000, RC3, SO3, Full Rate CDMA2000 3.50 ±9.6 10295 AAB 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 5.81 ±9.6 10298 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ±9.6 10299 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ±9.6 10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ±9.6 10301 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.57 ±9.6 10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.52 ±9.6 10305 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 15.24 ±9.6	10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3,46	±9.6
10295 AAB 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 5.81 ±9.6 10298 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ±9.6 10299 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ±9.6 10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ±9.6 10301 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.52 ±9.6 10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 15.24 ±9.6	10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
10297 AAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.81 ±9.6 10298 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ±9.6 10299 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ±9.6 10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ±9.6 10301 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.57 ±9.6 10303 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 15.24 ±9.6	10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6
10298 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-FDD 5.72 ±9.6 10299 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ±9.6 10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ±9.6 10301 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, G4QAM, PUSC) WiMAX 12.57 ±9.6 10303 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.52 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 15.24 ±9.6	10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.		12.49	±9.6
10299 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ±9.6 10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ±9.6 10301 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) WiMAX 12.57 ±9.6 10303 AAA IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.52 ±9.6 10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC) WiMAX 15.24 ±9.6	10297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6
10300 AAE LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-FDD 6.60 ±9.6 10301 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC) WiMAX 12.03 ±9.6 10302 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) WiMAX 12.57 ±9.6 10303 AAA IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 12.52 ±9.6 10304 AAA IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC) WiMAX 11.86 ±9.6 10305 AAA IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) WiMAX 15.24 ±9.6	10298	AAE			5.72	
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10305 AAA IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols) WIMAX 15.24 ±9.6						
10306 AAA IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols) WIMAX 14.67 ±9.6						
	10306	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	±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)	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	14.58	±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	±9.6
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	±9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	±9.6
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
10400	AAE	IEEE 802.11ac WiFi (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, 15Mbps, 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, Clippin 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
10450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%) W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	LTE-FDD WCDMA	7.48	±9.6
10451	AAB			7.59	±9.6 ±9.6
10453	AAE	Validation (Square, 10 ms, 1 ms)	Test WLAN	10.00	±9.6
10456	AAC	IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)	WCDMA	8.63	±9.6
10457	AAB	UMTS-FDD (DC-HSDPA)		6.62	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55 8.25	
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000 WCDMA	2,39	±9.6
10460	AAB	UMTS-FDD (WCDMA, AMR)		7.82	
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	±9.6
	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) 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 ±9.6
10462		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, OL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
10463				7.02	I3.0
10463 10464	AAD		_	0.00	100
10463 10464 10465	AAD 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
10463 10464 10465 10466	AAD AAD AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10463 10464 10465 10466 10467	AAD AAD AAD AAG	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD LTE-TDD LTE-TDD	8.57 7.82	±9.6
10463 10464 10465 10466 10467 10468	AAD AAD AAG AAG	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD LTE-TDD LTE-TDD	8.57 7.82 8.32	±9.6 ±9.6 ±9.6
10463 10464 10465 10466 10467	AAD AAD AAG AAG AAG	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD LTE-TDD LTE-TDD	8.57 7.82	±9.6

QIU	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-TDD	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
10482	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	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	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 7.59	±9.6 ±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	8.38	±9.6
10487	AAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	±9.6
10488	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	±9.6
10489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
10490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8,41	±9.6
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
10494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
10495	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6
10496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
10497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6
10500	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6
10501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±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
10503	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-TDD	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-TOD	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 8.36	±9.6
10507	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) 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		IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10519		IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
10520			WLAN	8.12	±9.6
10521	AAC		WLAN	7.97	±9.6
10522			WLAN WLAN	8.45 8.08	±9.6 ±9.6
10523	_		WLAN	8.27	±9.6
10524 10525			WLAN	8.36	±9.6
10525			WLAN	8.42	±9.6
10527			WLAN	8.21	±9.6
10528			WLAN	8.36	±9.6
10529		The state of the s	WLAN	8.36	±9.6
10531			WLAN	8.43	±9.6
10532			WLAN	8.29	±9.6
10533			WLAN	8.38	±9.6
10534			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		WLAN	8.44	±9.6
10538			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 10573	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) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN WLAN	1.98 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, 9 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	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
10585	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	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6
10588	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6
10589	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	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	8.64	±9.6
10594	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6
10595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
10596	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
10597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
10598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6
10599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6
10600	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
10601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
10602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
10603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
10604	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
10605	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
10606	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
	1	IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
10607	AAC	TELE 602.1 Tac Will (2019) 12, 191000, 30pc duty cycle)			

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E <i>k</i> = 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 802.11ac 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, 5MHz, 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-TOD	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		Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662		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		IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680		IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681		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
10005		IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10683	AAC				
-		IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle) IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN WLAN	8.26 8.33	±9.6

מוט	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10690	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 WLAN	8.26 8.45	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.30	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle) IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (90 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10713	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10720	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
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8,29	±9.6
10740		IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742		IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743			WLAN	8.94	±9.6
10744		IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745			WLAN	8.93	±9.6
10746			WLAN	9.11	±9.6
10747			WLAN	9.04	±9.6
10748			WLAN	8.93	±9.6
10749			WLAN	8.90 8.79	±9.6
10750			WLAN WLAN		±9.6
10751			WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	I AAPWAA	8.81	тэ.о

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10753	Rev AAC	Communication System Name IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	Group WLAN	PAR (dB) 9.00	
10753	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS) 1, 90pc duty cycle)		8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN WLAN	8,77	
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6 ±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.58	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	
10771	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6 ±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MRz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 KHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,40	±9.6
10786	AAD	5G NR (CP-QFDM, 100% RB, 20 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795		5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±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		±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		±9.6
10805	AAD	5G NR (CP-OFDM, 1 AB, 100MHz, QPSK, 30 kHz)	5G NR FR1 TDD	+	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10810	_	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10812		5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10817	_	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	+	±9.6
10818		5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10819		5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10820		5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10821		5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10822		5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10823	 	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10823		5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10824		5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10827		5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
10828		5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD		±9.6
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UID	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	±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 7.66	±9.6
10836	AAD AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 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, 15MHz, QPSK, 60kHz)	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 8.40	±9.6 ±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	±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	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10874	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95 8.41	±9.6 ±9.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 1 NB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD		±9.6
10881	AAE		5G NR FR2 TDD	5.75	±9.6
10882	AAE		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		±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 FR2 TDD		±9.6
10887			5G NR FR2 TDD		±9.6
10888			5G NR FR2 TDD	_	±9.6
10889			5G NR FR2 TDD		±9.6
10890			5G NR FR2 TDD		±9.6
10891			5G NR FR2 TDD		±9.6
10892 10897			5G NR FR2 TDD 5G NR FR1 TDD		±9.6
10897			5G NR FR1 TDD	_	±9.6
10899	_		5G NR FR1 TDD		±9.6
10990	-	· · · · · · · · · · · · · · · · · · ·	5G NR FR1 TDD	_	±9.6
10901			5G NR FR1 TDD		±9.6
10902			5G NR FR1 TDD		±9.6
10903			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 FR1 TDD		±9.6
10907			5G NR FR1 TDD		±9.6
10908			5G NR FR1 TDD		±9.6
10909			5G NR FR1 TDD		±9.6
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDE	5.83	±9.6

1991 AAB 08 NP (DFT-C-OFMA 50W RR) 25MH-C, 09SK, 30H42	UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
19912 AAB 9.0 RR (DFF-OFEN), 509 RR 9, 509 Mey CPSK, 309 Mey 50 NN FRT 1700 5.84 49.6				•		
19916 AAB SON RICEPT-CPENA, 590K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.85 ±9.6 19916 AAB SON RICEPT-CPENA, 590K RB, 80MHz, CPENS, 50MHz) SIGN REPRITOD 5.87 ±9.6 19917 AAB SON RICEPT-CPENA, 590K RB, 80MHz, CPENS, 50MHz) SIGN REPRITOD 5.87 ±9.6 19917 AAB SON RICEPT-CPENA, 590K RB, 80MHz, CPENS, 50MHz) SIGN REPRITOD 5.87 ±9.6 19918 AAB SON RICEPT-CPENA, 590K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.88 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.88 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.88 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 15MHz, CPENS, 50MHz) SIGN REPRITOD 5.87 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 15MHz, CPENS, 50MHz) SIGN REPRITOD 5.87 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 25MHz, CPENS, 50MHz) SIGN REPRITOD 5.87 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 25MHz, CPENS, 50MHz) SIGN REPRITOD 5.84 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 25MHz, CPENS, 50MHz) SIGN REPRITOD 5.84 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.84 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.84 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.94 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.94 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 50MHz) SIGN REPRITOD 5.94 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 190Hz) SIGN REPRITOD 5.94 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 190Hz) SIGN REPRITOD 5.95 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 190Hz) SIGN REPRITOD 5.94 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 190Hz) SIGN REPRITOD 5.94 ±9.6 19020 AAB SON RICEPT-CPENA, 190K RB, 50MHz, CPENS, 190Hz) SIGN REPRITOD 5.94 ±9.6 19020 AAB SON RICE	10912	AAB		5G NR FR1 TDD	5.84	±9.6
1991 ARB SG NR (DFF=0FDM, 50W RR 90 MHz, CPSK, 500Hz)	10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
1991 AAB SG NR (DPF=0PEN), SOW RB, SOMHE, CPSK, SONHE) SG NR FRI TOD 5.87 49.6	10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
1991 AAB GS NR DEFS-OFEN, 500 RB, 100 MHz, CPSK, 500 Hz) SG NR FRI TOD 5.94 ±9.8 19.8 19.8 19.8 AAB SG NR DEFS-OFEN, 1000 RB, 100 MHz, CPSK, 500 Hz) SG NR FRI TOD 5.86 ±9.8 19.8	10915	AAB				
1999 AAB SAN (PFF+0°PDM, 100% RE, 19MbL, QPSK, 39MbL) SG NR FRI TOD 5.88 ±9.6 19.5 19.5 SAN (PFF+0°PDM, 100% RE, 19MbL, QPSK, 39MbL) SG NR FRI TOD 5.87 ±9.6 19.5	<u> </u>		· · · · · · · · · · · · · · · · · · ·			
1992 AAB SO NR (DPT-E-OFDM, 1009, RB, 10MHz, OPSK, 30Hz)				1		
10922 AAB SO NR (DPT-S-OFDM, 1009, RB, 35MHz, OPSK, 30HHz)						
10922 AAB SO NR (DFT-COPIN, 100K, RB, 20MHz, OPSK, 30MHz) SO NR FRI TIDO 5.84 ±9.8 10923 AAB SO NR (DFT-COPIN, 100K, RB, 50MHz, OPSK, 30MHz) SO NR FRI TIDO 5.82 ±9.8 10924 AAB SO NR (DFT-COPIN, 100K, RB, 50MHz, OPSK, 30MHz) SO NR FRI TIDO 5.84 ±9.8 10924 AAB SO NR (DFT-COPIN, 100K, RB, 50MHz, OPSK, 30MHz) SO NR FRI TIDO 5.84 ±9.8 10924 AAB SO NR (DFT-COPIN, 100K, RB, 50MHz, OPSK, 30MHz) SO NR FRI TIDO 5.84 ±9.8 10926 AAB 50 NR (DFT-COPIN, 100K, RB, 50MHz, OPSK, 30MHz) SO NR FRI TIDO 5.94 ±9.8 10926 AAB 50 NR (DFT-COPIN, 100K, RB, 50MHz, OPSK, 30MHz) SO NR FRI TIDO 5.94 ±9.8 10926 AAB 50 NR (DFT-COPIN, 100K, RB, 50MHz, OPSK, 30MHz) SO NR FRI TIDO 5.94 ±9.6 10926 AAB 50 NR (DFT-COPIN, 100K, RB, 50 MHz, OPSK, 30MHz) SO NR FRI TIDO 5.94 ±9.6 10926 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.92 ±9.6 10926 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.92 ±9.6 10926 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.92 ±9.6 10926 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.92 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.92 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.92 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.92 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.91 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.91 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.91 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.91 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.91 ±9.6 10928 AAC SO NR (DFT-COPIN, 18R, 50MHz, OPSK, 15MHz) SO NR FRI TIDO 5.91 ±9.6 10928 AAC SO N	I	1			1	
19922 AAS 50 NR (DFT-6-OFM, 100%, RB, 25MHz, OFSK, 39MHz)				-		
19822 AAB SG NR (DPT-COPM, 1009 RB, 30MHz, OPSK, 30MHz)						
10926 AAB 5G NR (DFT-S-CPDM, 109K RB, 50MHz, QPSK, 50MHz) 5G NR FRI TDD 5.84 49.6						
10928 AAB GG NR (DFF-SCPM), 1070K RB, 50MHz, QPSK, 30MHz) SG NR FRI TDD 5.98 ±9.8 10928 AAB GG NR (DFF-SCPM), 1070K RB, 50MHz, QPSK, 30MHz) SG NR FRI TDD 5.94 ±9.6 10928 AAC GG NR (DFF-SCPM), 1070K RB, 50MHz, QPSK, 15MHz) SG NR FRI TDD 5.92 ±9.8 10929 AAC GG NR (DFF-SCPM), 18 B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.52 ±9.8 10929 AAC SG NR (DFF-SCPM), 18 B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.52 ±9.8 10929 AAC SG NR (DFF-SCPM), 18 B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.52 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 2MMz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 2MMz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 2MMz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 5MMz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 5MMz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 18 B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 5M B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 5M B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 5M B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10930 AAC SG NR (DFF-SCPM), 5M B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.51 ±9.8 10940 AAC SG NR (DFF-SCPM), 5M B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.59 ±9.8 10940 AAC SG NR (DFF-SCPM), 5M B, 5MHz, QPSK, 15MHz) SG NR FRI TDD 5.90 ±9.8 10940 AAC SG NR (DFF-SCPM), 5MBR, 2MHz, QPSK, 15MHz) SG NR FRI TDD 5.80 ±9.8 10940 AAC SG NR (DFF-SCPM), 5MBR, 2MHz, QPSK, 15MHz) SG NR FRI TDD 5.80 ±9.8 10940 AAC SG NR (DFF-SC				1		
10922 AAB SG NR (DFF-SCPDM, 109K RB, 80MHz, QPSK, 158Hz)						
10928 AAC SC NR (PFIS-OFDM, 1 RB, SMMz, OPSK, 15Hz) SC NR FRI FDD 5.52 4.9.6				5G NR FR1 TDD	5.84	±9.6
10920 AAC SG NR (FFT=ACPDM, 1 RB, 10MHz, OPSK, 15KHz) SG NR FR1 FDD 5.52 4.9.6	10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
1983 AAC SG NR (DFTs-OFDM, 1 RB, 15MHz, OPSK, 15MHz) SG NR FR1 FDD S.51 49.6	10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
10931 AAC SG NR (DFTs-OFDM, 1 RB, 25MHz, OPSK, 15Hz) SG NR FRI FDD 5.51 ±9.6 10932 AAC SG NR (DFTs-OFDM, 1 RB, 25MHz, OPSK, 15Hz) SG NR FRI FDD 5.51 ±9.6 10934 AAC SG NR (DFTs-OFDM, 1 RB, 30MHz, OFSK, 15Hz) SG NR FRI FDD 5.51 ±9.6 10934 AAC SG NR (DFTs-OFDM, 1 RB, 30MHz, OFSK, 15Hz) SG NR FRI FDD 5.51 ±9.6 10936 AAC SG NR (DFTs-OFDM, 1 RB, 40MHz, OFSK, 15Hz) SG NR FRI FDD 5.51 ±9.6 10936 AAC SG NR (DFTs-OFDM, 1 RB, 40MHz, OFSK, 15Hz) SG NR FRI FDD 5.51 ±9.6 10936 AAC SG NR (DFTs-OFDM, 50% RB, 5MHz, OPSK, 15Hz) SG NR FRI FDD 5.51 ±9.6 10937 AAC SG NR (DFTs-OFDM, 50% RB, 5MHz, OPSK, 15Hz) SG NR FRI FDD 5.90 ±9.6 10937 AAC SG NR (DFTs-OFDM, 50% RB, 15MHz, OPSK, 15Hz) SG NR FRI FDD 5.90 ±9.6 10938 AAC SG NR (DFTs-OFDM, 50% RB, 15MHz, OPSK, 15Hz) SG NR FRI FDD 5.90 ±9.6 10939 AAC SG NR (DFTs-OFDM, 50% RB, 15MHz, OPSK, 15Hz) SG NR FRI FDD 5.90 ±9.6 10940 AAC SG NR (DFTs-OFDM, 50% RB, 20MHz, OPSK, 15Hz) SG NR FRI FDD 5.89 ±9.6 10941 AAC SG NR (DFTs-OFDM, 50% RB, 20MHz, OPSK, 15Hz) SG NR FRI FDD 5.89 ±9.6 10942 AAC SG NR (DFTs-OFDM, 50% RB, 20MHz, OPSK, 15Hz) SG NR FRI FDD 5.89 ±9.6 10943 AAC SG NR (DFTs-OFDM, 50% RB, 20MHz, OPSK, 15Hz) SG NR FRI FDD 5.89 ±9.6 10943 AAC SG NR (DFTs-OFDM, 50% RB, 50MHz, OPSK, 15Hz) SG NR FRI FDD 5.85 ±9.6 10943 AAC SG NR (DFTs-OFDM, 50% RB, 50MHz, OPSK, 15Hz) SG NR FRI FDD 5.85 ±9.6 10943 AAC SG NR (DFTs-OFDM, 50% RB, 50MHz, OPSK, 15Hz) SG NR FRI FDD 5.85 ±9.6 10943 AAC SG NR (DFTs-OFDM, 100% RB, 50MHz, OPSK, 15Hz) SG NR FRI FDD 5.85 ±9.6 10944 AAC SG NR (DFTs-OFDM, 100% RB, 50MHz, OPSK, 15Hz) SG NR FRI FDD 5.81 ±9.6 10944 AAC SG NR (DFTs-OFDM, 100% RB, 50MHz, OPSK, 15Hz) SG NR FRI FDD 5.81 ±9.6 10946 AAC SG NR (DFTs-OFDM, 100% RB, 50MHz, OPSK, 15Hz) SG NR FRI FDD 5.81 ±9.6 10946 AAC SG NR (DFTs-OFDM, 100% RB, 50MHz, OPSK	10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
1982 AAC SG NR (DFTs-OFDM, 1 RB, 25MHz, OPSK, 15kHz) SG NR FRI FDD 5.51 ±9.6 1933 AAC SG NR (DFTs-OFDM, 1 RB, 40MHz, OPSK, 15kHz) SG NR FRI FDD 5.51 ±9.6 1938 AAC SG NR (DFTs-OFDM, 1 RB, 40MHz, OPSK, 15kHz) SG NR FRI FDD 5.51 ±9.6 1938 AAC SG NR (DFTs-OFDM, 1 RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.51 ±9.6 1938 AAC SG NR (DFTs-OFDM, 1 RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.51 ±9.6 1938 AAC SG NR (DFTs-OFDM, 50W RB, 10MHz, OPSK, 15kHz) SG NR FRI FDD 5.50 ±9.6 1938 AAC SG NR (DFTs-OFDM, 50W RB, 15MHz, OPSK, 15kHz) SG NR FRI FDD 5.77 ±9.6 1938 AAC SG NR (DFTs-OFDM, 50W RB, 15MHz, OPSK, 15kHz) SG NR FRI FDD 5.77 ±9.6 1938 AAC SG NR (DFTs-OFDM, 50W RB, 15MHz, OPSK, 15kHz) SG NR FRI FDD 5.77 ±9.6 1939 AAC SG NR (DFTs-OFDM, 50W RB, 25MHz, OPSK, 15kHz) SG NR FRI FDD 5.77 ±9.6 1939 AAC SG NR (DFTs-OFDM, 50W RB, 25MHz, OPSK, 15kHz) SG NR FRI FDD 5.82 ±9.6 1934 AAC SG NR (DFTs-OFDM, 50W RB, 25MHz, OPSK, 15kHz) SG NR FRI FDD 5.82 ±9.6 10941 AAC SG NR (DFTs-OFDM, 50W RB, 30MHz, OPSK, 15kHz) SG NR FRI FDD 5.83 ±9.6 10942 AAC SG NR (DFTs-OFDM, 50W RB, 30MHz, OPSK, 15kHz) SG NR FRI FDD 5.83 ±9.6 10944 AAC SG NR (DFTs-OFDM, 50W RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.85 ±9.8 10944 AAC SG NR (DFTs-OFDM, 50W RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.85 ±9.8 10945 AAC SG NR (DFTs-OFDM, 100W RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.85 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100W RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.85 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100W RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.81 ±9.6 10949 AAC SG NR (DFTs-OFDM, 100W RB, 50MHz, OPSK, 15kHz) SG NR FRI FDD 5.81 ±9.6 10949 AAC SG NR (DFTs-OFDM, 100W RB, 20MHz, OPSK, 15kHz) SG NR FRI FDD 5.84 ±9.6 10949 AAC SG NR (DFTs-OFDM, 100W RB, 20MHz, OPSK, 15kHz) SG NR FRI FDD 5.84 ±9.6 10949 AAC SG NR (DFTs-OFDM, 100W	10930	AAC		5G NR FR1 FDD	5.52	
10933 AAC SG NR (DFT-6-CFDM, 1 RB, 40 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.51 ±9.6 10934 AAC SG NR (DFT-6-CFDM, 1 RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.51 ±9.6 10936 AAC SG NR (DFT-6-CFDM, 1 RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.51 ±9.6 10936 AAC SG NR (DFT-6-CFDM, 50% RB, 5 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.57 ±9.6 10937 AAC SG NR (DFT-6-CFDM, 50% RB, 5 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.90 ±9.6 10937 AAC SG NR (DFT-6-CFDM, 50% RB, 15 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.90 ±9.6 10937 AAC SG NR (DFT-6-CFDM, 50% RB, 15 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.90 ±9.6 10940 AAC SG NR (DFT-6-CFDM, 50% RB, 25 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.90 ±9.6 10941 AAC SG NR (DFT-6-CFDM, 50% RB, 25 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.89 ±9.6 10941 AAC SG NR (DFT-6-CFDM, 50% RB, 25 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.89 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 50% RB, 40 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.83 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 50% RB, 40 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAD SG NR (DFT-6-CFDM, 50% RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAD SG NR (DFT-6-CFDM, 50% RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAD SG NR (DFT-6-CFDM, 100% RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAD SG NR (DFT-6-CFDM, 100% RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 100% RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 100% RB, 50 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 100% RB, 20 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.85 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 100% RB, 20 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.87 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 100% RB, 20 MHz, OPSK, 15 kHz) SG NR FRI FDD 5.87 ±9.6 10943 AAC SG NR (DFT-6-CFDM, 100% RB, 20 MHz,						
10935 AAC SG NR (DFTs-OFDM, SI RB, 40MHz, QPSK, 15HHz) SG NR FRI FDD S.51 ±9.6 10935 AAC SG NR (DFTs-OFDM, 1RB, 50MHz, QPSK, 15HHz) SG NR FRI FDD S.51 ±9.6 10937 AAC SG NR (DFTs-OFDM, 50% RB, 5 MHz, QPSK, 15HHz) SG NR FRI FDD S.77 ±9.6 10937 AAC SG NR (DFTs-OFDM, 50% RB, 5 MHz, QPSK, 15HHz) SG NR FRI FDD S.77 ±9.6 10938 AAC SG NR (DFTs-OFDM, 50% RB, 15 MHz, QPSK, 15HHz) SG NR FRI FDD S.77 ±9.6 10939 AAC SG NR (DFTs-OFDM, 50% RB, 15 MHz, QPSK, 15HHz) SG NR FRI FDD S.82 ±9.6 10940 AAC SG NR (DFTs-OFDM, 50% RB, 25 MHz, QPSK, 15HHz) SG NR FRI FDD S.82 ±9.6 10940 AAC SG NR (DFTs-OFDM, 50% RB, 25 MHz, QPSK, 15HHz) SG NR FRI FDD S.82 ±9.6 10941 AAC SG NR (DFTs-OFDM, 50% RB, 25 MHz, QPSK, 15HHz) SG NR FRI FDD S.83 ±9.6 10942 AAC SG NR (DFTs-OFDM, 50% RB, 25 MHz, QPSK, 15HHz) SG NR FRI FDD S.83 ±9.6 10943 AAD SG NR (DFTs-OFDM, 50% RB, 30 MHz, QPSK, 15HHz) SG NR FRI FDD S.83 ±9.6 10943 AAC SG NR (DFTs-OFDM, 50% RB, 40 MHz, QPSK, 15HHz) SG NR FRI FDD S.85 ±9.6 10943 AAC SG NR (DFTs-OFDM, 50% RB, 50 MHz, QPSK, 15HHz) SG NR FRI FDD S.85 ±9.6 10943 AAC SG NR (DFTs-OFDM, 50% RB, 50 MHz, QPSK, 15HHz) SG NR FRI FDD S.85 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15HHz) SG NR FRI FDD S.85 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15HHz) SG NR FRI FDD S.81 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 10045 ACC SG NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15HHz) SG NR FRI FDD S.81 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15HHz) SG NR FRI FDD S.82 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15HHz) SG NR FRI FDD S.82 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15HHz) SG NR FRI FDD S.94 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15HHz) SG NR FRI FDD S.92 ±9.6 10945 AAC SG NR (DFTs-OFDM, 100% RB, 20 MHz, QP						
10935 AAD 50 RR (DFTs-OFDM, 1 RB, 50 MHz, QPSK, 15kHz)	——					
10936 AAC SG NR (DFTs-OFDM, 50% RB, 5MHz, QPSK, 15kHz) SG NR FRI FDD 5.90 ±9.6						
10937 AAC G. G. NR (DFT-C-OFDM, 50%, RB, 15MHz, QPSK, 15kHz) S. G. NR FRI FDD 5.77 ±9.6						
10938 AAC SG NR (DFT-6-OFDM, 50%, RB, 15MHz, QPSK, 15kHz) SG NR FRI FDD S.90 ±9.6 10939 AAC SG NR (DFT-6-OFDM, 50%, RB, 26MHz, QPSK, 15kHz) SG NR FRI FDD S.92 ±9.6 10941 AAC SG NR (DFT-6-OFDM, 50% RB, 26MHz, QPSK, 15kHz) SG NR FRI FDD S.83 ±9.6 10942 AAC SG NR (DFT-6-OFDM, 50% RB, 26MHz, QPSK, 15kHz) SG NR FRI FDD S.83 ±9.6 10943 AAC SG NR (DFT-6-OFDM, 50% RB, 40MHz, QPSK, 15kHz) SG NR FRI FDD S.85 ±9.6 10943 AAD SG NR (DFT-6-OFDM, 50% RB, 40MHz, QPSK, 15kHz) SG NR FRI FDD S.85 ±9.6 10944 AAC SG NR (DFT-6-OFDM, 50% RB, 40MHz, QPSK, 15kHz) SG NR FRI FDD S.85 ±9.6 10945 AAC SG NR (DFT-6-OFDM, 100% RB, 10MHz, QPSK, 15kHz) SG NR FRI FDD S.85 ±9.6 10946 AAC SG NR (DFT-6-OFDM, 100% RB, 10MHz, QPSK, 15kHz) SG NR FRI FDD S.85 ±9.6 10947 AAC SG NR (DFT-6-OFDM, 100% RB, 10MHz, QPSK, 15kHz) SG NR FRI FDD S.85 ±9.6 10948 AAC SG NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD S.87 ±9.6 10949 AAC SG NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD S.87 ±9.6 10949 AAC SG NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD S.87 ±9.6 10949 AAC SG NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD S.87 ±9.6 10949 AAC SG NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD S.87 ±9.6 10949 AAC SG NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD S.87 ±9.6 10950 AAC SG NR (DFT-6-OFDM, 100% RB, 20MHz, QPSK, 15kHz) SG NR FRI FDD S.87 ±9.6 10951 AAD SG NR (DFT-6-OFDM, 100% RB, 30MHz, QPSK, 15kHz) SG NR FRI FDD S.92 ±9.6 10952 AAA SG NR DL (CP-OFDM, TM 3.1, 15MHz, 64-OAM, 15kHz) SG NR FRI FDD S.25 ±9.6 10953 AAA SG NR DL (CP-OFDM, TM 3.1, 15MHz, 64-OAM, 15kHz) SG NR FRI FDD S.25 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 20MHz, 64-OAM, 15kHz) SG NR FRI FDD S.93 ±9.6 10958 AAA SG NR DL (CP-OFD		·			1	
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19941 AAC 5G NR (DFTs-OFDM, 50% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10942 AAC 5G NR (DFTs-OFDM, 50% RB, 40 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 ±9.6 10943 AAD 5G NR (DFTs-OFDM, 50% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.95 ±9.6 10944 AAC 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.81 ±9.6 10945 AAC 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 ±9.6 10946 AAC 5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.85 ±9.6 10947 AAC 5G NR (DFTs-OFDM, 100% RB, 15 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.83 ±9.6 10947 AAC 5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.87 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10952 AAA 5G NR D (DFTS-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10953 AAC 5G NR (DFTS-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 ±9.6 10954 AAA 5G NR D (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 5.22 ±9.6 10955 AAA 5G NR D (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10956 AAA 5G NR D (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10957 AAA 5G NR D (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10958 AAA 5G NR D (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR D (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR D (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 9.29 ±9.6 10956 AAA 5G NR D					.1	
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10944 AAC SG NR DFTs-OFDM, 100% RB, 5MHz, QPSK, 15kHz SG NR FRI FDD S.81 ±9.8 10945 AAC SG NR DFTs-OFDM, 100% RB, 10MHz, QPSK, 15kHz SG NR FRI FDD 5.85 ±9.6 10947 AAC SG NR QFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz SG NR FRI FDD 5.87 ±9.6 10947 AAC SG NR QFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz SG NR FRI FDD 5.87 ±9.6 10948 AAC SG NR QFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz SG NR FRI FDD 5.87 ±9.6 10949 AAC SG NR QFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz SG NR FRI FDD 5.87 ±9.6 10950 AAC SG NR QFTs-OFDM, 100% RB, 20MHz, QPSK, 15kHz SG NR FRI FDD 5.87 ±9.6 10951 AAD SG NR QFTs-OFDM, 100% RB, 30MHz, QPSK, 15kHz SG NR FRI FDD 5.94 ±9.6 10952 AAA SG NR QFTs-OFDM, 100% RB, 50MHz, QPSK, 15kHz SG NR FRI FDD 5.94 ±9.6 10953 AAA SG NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz) SG NR FRI FDD 8.25 ±9.6 10953 AAA SG NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz) SG NR FRI FDD 8.15 ±9.6 10954 AAA SG NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) SG NR FRI FDD 8.12 ±9.6 10955 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) SG NR FRI FDD 8.23 ±9.6 10956 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) SG NR FRI FDD 8.14 ±9.6 10957 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) SG NR FRI FDD 8.14 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) SG NR FRI FDD 8.14 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) SG NR FRI FDD 8.14 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) SG NR FRI FDD 8.31 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) SG NR FRI FDD 9.29 ±9.6 10958 AAA SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) SG NR FRI FDD 9.29 ±9.6 10958 AAB SG NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) SG NR FRI	10942	AAC		5G NR FR1 FDD	5.85	±9.6
10945 AAC SG NR (DFT-s-OFDM, 100% RB, 10MHz, QPSK, 15kHz) SG NR FR1 FDD 5.85 ±9.8	10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10946	10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10947 AAC 5G NR (DFTs-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ±9.6 10948 AAC 5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 5.92 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.22 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.22 ±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 8.44 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.14 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ±9.6 10959 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, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ±9.6 10950 AAC 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.32 ±9.6 10950 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.35 ±9.6 10960 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ±9.6 10960 AAB 5G NR DL	10945	AAC				±9.6
10948 AAC 5G NR (DFTs-OFDM, 100% RB, 25MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10949 AAC 5G NR (DFTs-OFDM, 100% RB, 30MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.97 ±9.6 10950 AAC 5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 50 MHz, QPSK, 15kHz) 5G NR FR1 FDD 5.92 ±9.6 10952 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10953 AAA 5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10954 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.25 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 54kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 54kHz) 5G NR FR1 FDD 8.42 ±9.6 10957 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.31 ±9.6 10958 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 FDD 8.33 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 FDD 8.33 ±9.6 10950 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 TDD 9.32 ±9.6 10951 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 TDD 9.32 ±9.6 10952 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz) 5G NR FR1 TDD 9.35 ±9.6 10952 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.35 ±9.6 10956 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.35 ±9.6 10956 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR FR1 TDD 9.29 ±9.6 10956 AAB 5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 30kHz) 5G NR	10946		· · · · · · · · · · · · · · · · · · ·			
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10950 AAC 5G NR (DFTs-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ±9.6 10951 AAD 5G NR (DFTs-OFDM, 100% RB, 80 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, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.23 ±9.6 10955 AAA 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.42 ±9.6 10956 AAA 5G NR DL (CP-OFDM, TM 3.1, 10 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, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10959 AAA 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ±9.6 10950 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.31 ±9.6 10950 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, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ±9.6 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.37 ±9.6 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ±9.6 10964 AAC 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ±9.6 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.59 ±9.6 10968 AAB 5G NR DL (
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10980 AAA ULLA HDR8 ULLA 10.32 ±9.6 10981 AAA ULLA HDRp4 ULLA 3.19 ±9.6						
				ULLA		
10982 AAA ULLA HDRp8 ULLA 3.43 ±9.6	10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
	10982	2 AAA	ULLA HDRp8	ULLA	3.43	±9.6

QIU	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
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8,46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

 $^{^{\}mathsf{E}}$ 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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Client

AUDIX (Auden)

Certificate No: D2450V2-888_Sep21

CALIBRATION CERTIFICATE

Object D2450V2 - SN:888

Calibration procedure(s) QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: September 13, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
Type-N mismatch combination	SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
Reference Probe EX3DV4	SN: 7349	28-Dec-20 (No. EX3-7349_Dec20)	Dec-21
DAE4	SN: 601	02-Nov-20 (No. DAE4-601_Nov20)	Nov-21
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: MY41092317	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-21
	Name	Function	Signature
Calibrated by:	Jeffrey Katzman	Laboratory Technician	
			d. Ky
Approved by:	Katja Pokovic	Technical Manager	10101
			de de

Issued: September 14, 2021

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

Certificate No: D2450V2-888_Sep21

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Calibration Laboratory of

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





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

Glossarv:

TSL tissue simulating liquid

ConvE sensitivity in TSL / NORM x,v,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D2450V2-888_Sep21

Measurement Conditions

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

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

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.7 ± 6 %	1.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.6 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.9 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-888_Sep21

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.8 Ω + 2.8 jΩ	
Return Loss	- 26.8 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.159 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

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DASY5 Validation Report for Head TSL

Date: 13.09.2021

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:888

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.87 \text{ S/m}$; $\varepsilon_r = 37.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY52 Configuration:

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

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn601; Calibrated: 02.11.2020

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

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

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

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

Reference Value = 115.8 V/m; Power Drift = -0.08 dB

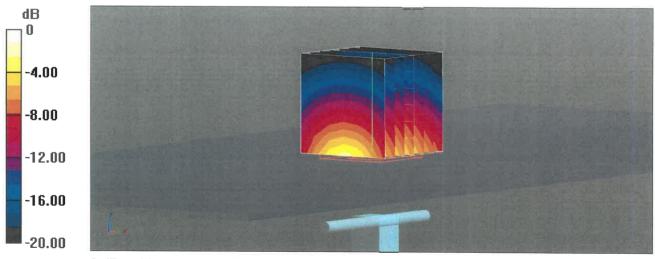
Peak SAR (extrapolated) = 27.0 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.29 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.6%

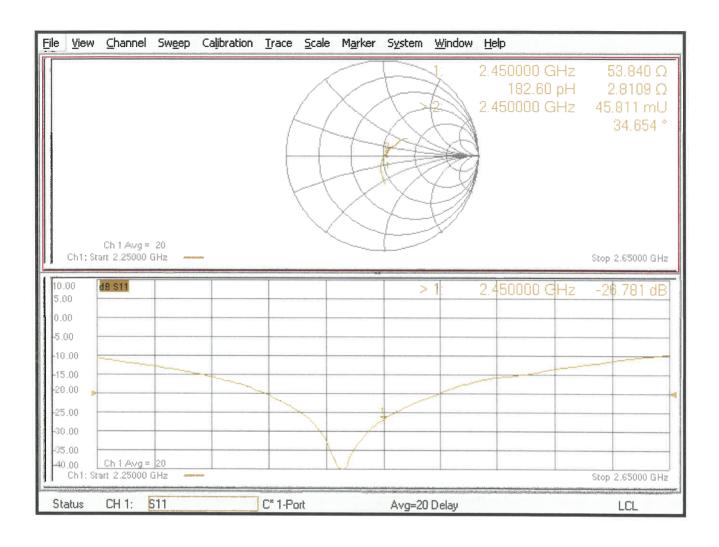
Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg

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Impedance Measurement Plot for Head TSL



Dipole Verified Data

Model Name: D2450V2

SN:888

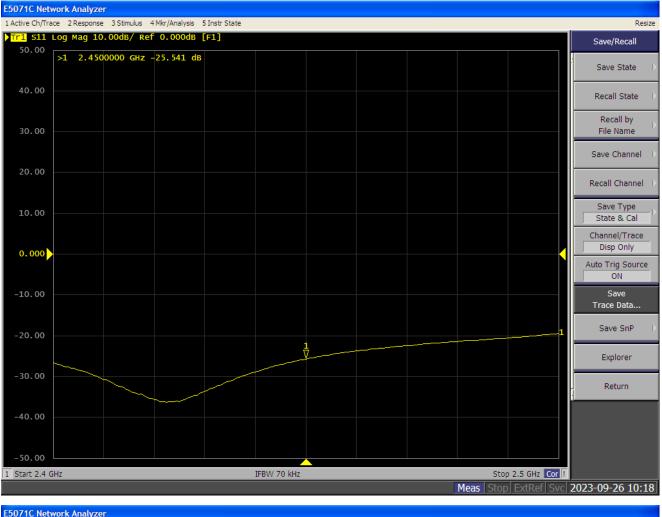
Pursuant to KDB 865664 D01 V01r04 section 3.2.2 that the reference dipole calibration can be extended to 3 years if Lab. does a confirmation on return loss and impedance annually, and compliance with following conditions,

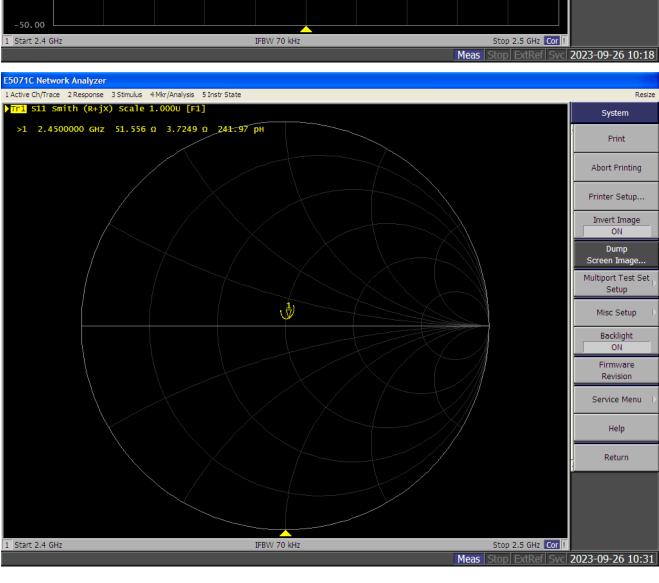
- 1. Return loss deviates by less than 20% from the previous measurement and have 20 dB minimum return-loss requirement
- 2. The real or imaginary parts of the impedance, measured at least annually, deviates by less than 5 Ω from the previous measurement.

Plot for Antenna Parameters with Head Tissue

Antenna Parameters with Head Tissue

Item	Verified on 9/26, 2023	Original Cal. Result	Deviation
Impedance, transformed to feed point	51.556 Ω +3.7249 Ω	53.8 Ω +2.8j Ω	< 5 Ω
Return Loss	-25.541 dB	-26.8 dB	-4.697%





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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Client

AUDIX (Auden)

Certificate No: D5GHzV2-1124 Sep21

CALIBRATION CERTIFICATE

Object D5GHzV2 - SN:1124

Calibration procedure(s) QA CAL-22.v6

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date: September 27, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration	
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22	
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22	
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22	
Reference 20 dB Attenuator	SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22	
Type-N mismatch combination	SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22	
Reference Probe EX3DV4	SN: 3503	30-Dec-20 (No. EX3-3503_Dec20)	Dec-21	
DAE4	SN: 601	02-Nov-20 (No. DAE4-601_Nov20)	Nov-21	
	1			
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: MY41092317	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-21	
	Name	Function	Signature	
Calibrated by:	Jeton Kastrati	Laboratory Technician	J-10-	
Approved by:	Katja Pokovic	Technical Manager	Mal	

Issued: September 27, 2021

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

Certificate No: D5GHzV2-1124 Sep21

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





S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
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Swiss Calibration Service

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Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORM x,y,z

N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

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

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

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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	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	
	DOUD WHZ ± 1 MHZ	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	4.47 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5200 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	81.1 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	23.1 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.6 ± 6 %	4.60 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	May all Advisor	

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	83.2 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.36 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.5 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	4.76 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	86.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.46 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

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

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	8.47 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	83.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.41 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.8 W/kg ± 19.5 % (k=2)

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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	34.0 ± 6 %	5.06 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.8 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)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	50.5 Ω - 3.9 jΩ	
Return Loss	- 28.1 dB	

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	50.0 Ω - 3.4 jΩ
Return Loss	- 29.3 dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	52.6 Ω + 2.1 jΩ
Return Loss	- 29.7 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.2 Ω + 4.2 jΩ
Return Loss	- 24.9 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	56.9 Ω + 1.0 jΩ
Return Loss	- 23.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	207 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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

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

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL

Date: 27.09.2021

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1124

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5500

MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 4.47$ S/m; $\epsilon_r = 34.8$; $\rho = 1000$ kg/m³,

Medium parameters used: f = 5300 MHz; $\sigma = 4.6 \text{ S/m}$; $\varepsilon_r = 35.6$; $\rho = 1000 \text{ kg/m}^3$

Medium parameters used: f = 5500 MHz; $\sigma = 4.76$ S/m; $\varepsilon_r = 34.4$; $\rho = 1000$ kg/m³

Medium parameters used: f = 5600 MHz; $\sigma = 4.86 \text{ S/m}$; $\epsilon_r = 34.2$; $\rho = 1000 \text{ kg/m}^3$,

Medium parameters used: f = 5800 MHz; $\sigma = 5.06$ S/m; $\varepsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.8, 5.8, 5.8) @ 5200 MHz, ConvF(5.49, 5.49, 5.49) @ 5300 MHz, ConvF(5.25, 5.25, 5.25) @ 5500 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 30.12.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.11.2020
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan.

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

Reference Value = 79.26 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 28.5 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 = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 69.5%

Maximum value of SAR (measured) = 18.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

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

Reference Value = 79.18 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 29.5 W/kg

SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.36 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 69.2%

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

Certificate No: D5GHzV2-1124_Sep21 Page 7 of 9

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan,

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

Reference Value = 78.92 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 33.3 W/kg

SAR(1 g) = 8.75 W/kg; SAR(10 g) = 2.46 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 66.8%

Maximum value of SAR (measured) = 20.6 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 = 79.93 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 31.1 W/kg

SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.41 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 67.9%

Maximum value of SAR (measured) = 19.8 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 = 77.54 V/m; Power Drift = -0.06 dB

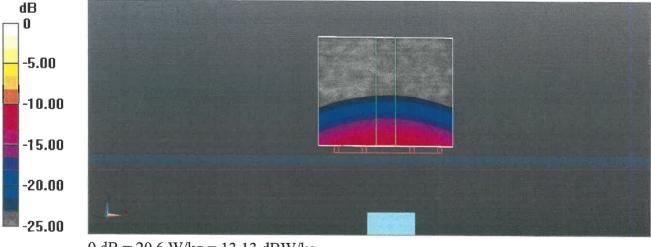
Peak SAR (extrapolated) = 32.1 W/kg

SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.31 W/kg

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

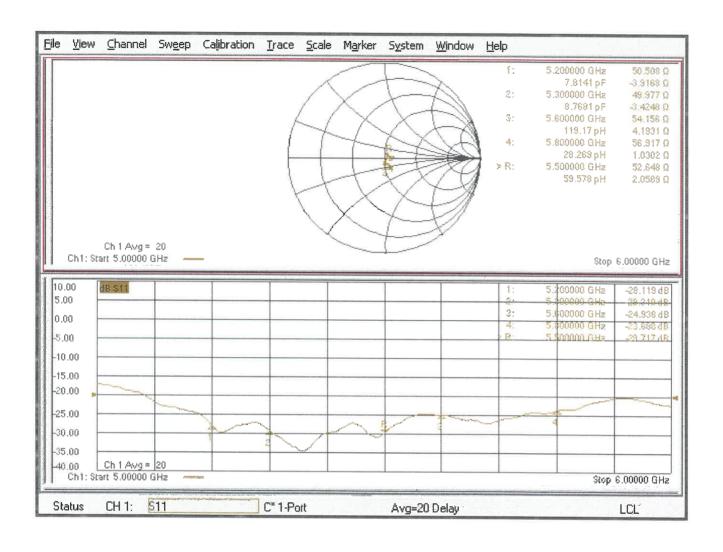
Ratio of SAR at M2 to SAR at M1 = 66.1%

Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 20.6 W/kg = 13.13 dBW/kg

Impedance Measurement Plot for Head TSL



Dipole Verified Data

Model Name: D5GHzV2

SN:1124

Pursuant to KDB 865664 D01 V01r04 section 3.2.2 that the reference dipole calibration can be extended to 3 years if Lab. does a confirmation on return loss and impedance annually, and compliance with following conditions,

- 1. Return loss deviates by less than 20% from the previous measurement and have 20 dB minimum return-loss requirement
- 2. The real or imaginary parts of the impedance, measured at least annually, deviates by less than 5 Ω from the previous measurement.

Antenna Parameters with Head Tissue 5200 MHz

Item	Verified on 9/26, 2023	Original Cal. Result	Deviation
Impedance, transformed to feed point	50.425 Ω +3.0872 Ω	50.5 Ω -3.9j Ω	< 5Ω
Return Loss	-31.542 dB	-28.1 dB	10.912%

Antenna Parameters with Head Tissue 5300 MHz

Item	Verified on 9/26, 2023	Original Cal. Result	Deviation
Impedance, transformed to feed point	54.665 Ω +6.8722 Ω	50.0 Ω - 3.4 j Ω	< 5Ω
Return Loss	-24.366 dB	-29.3 dB	-16.84%

Antenna Parameters with Head Tissue 5500 MHz

Item	Verified on 9/26, 2023	Original Cal. Result	Deviation
Impedance, transformed to feed point	50.610 Ω -855.62m Ω	52.6 Ω +2.1 j Ω	< 5Ω
Return Loss	-28.657 dB	-29.7 dB	-3.52%

Antenna Parameters with Head Tissue 5600 MHz

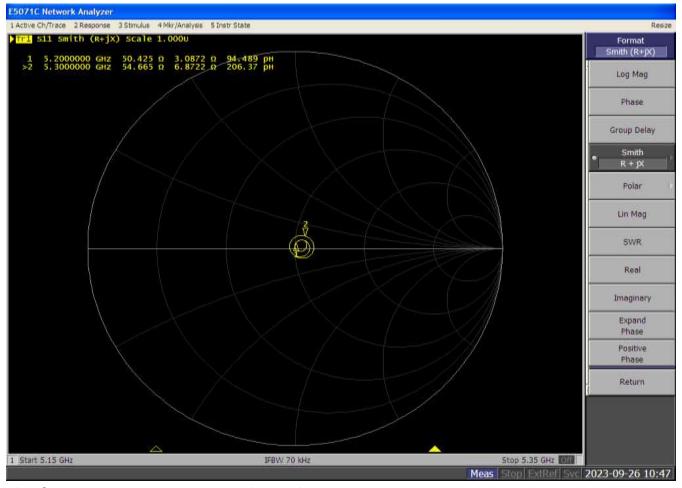
Item	Verified on 9/26, 2023	Original Cal. Result	Deviation
Impedance, transformed to feed point	52.023 Ω +7.781 Ω	54.2 Ω +4.2j Ω	< 5 Ω
Return Loss	-23.344 dB	-24.9 dB	6.25%

Antenna Parameters with Head Tissue 5800 MHz

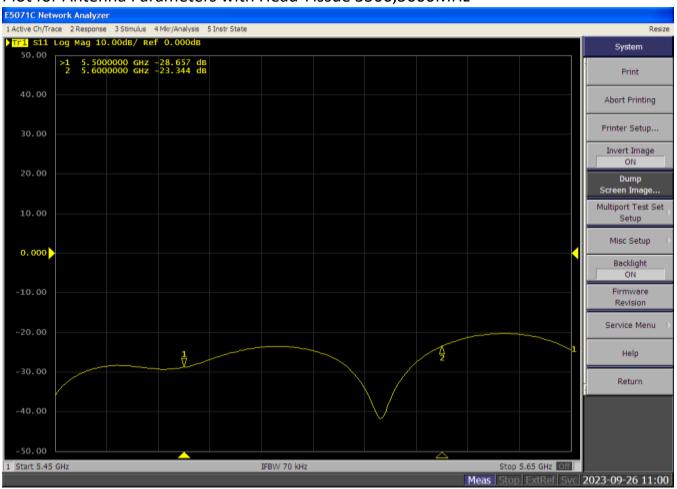
Item	Verified on 9/26, 2023	Original Cal. Result	Deviation
Impedance, transformed to feed point	54.955 Ω -2.3507 Ω	56.9 Ω +1.0j Ω	<5Ω
Return Loss	-27.245 dB	-23.7 dB	-13.02%

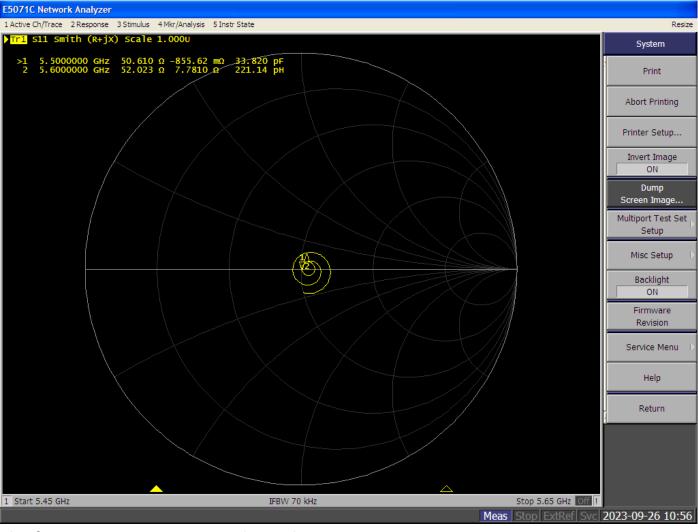
Plot for Antenna Parameters with Head Tissue 5200 MHz & 5300 MHz





Plot for Antenna Parameters with Head Tissue 5500,5600MHz





Plot for Antenna Parameters with Head Tissue 5800 MHz

