

Test Report S/N: Test Report Issue Date: 45461575 R1.0 6 February 2020

APPENDIX E - PROBE CALIBRATION

Calibration Laboratory of

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

Certificate No: EX3-3600 Mar19

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

Celltech

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3600

Calibration procedure(s) QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v5, QA CAL-23.v5,

QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date: March 26, 2019

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

Name Function Signature
Calibrated by: Jeton Kastrati Laboratory Technician

Katja Pokovic Technical Manager

Issued: March 26, 2019

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

Certificate No: EX3-3600_Mar19

Approved by:

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Glossary:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF DCP

sensitivity in TSL / NORMx,v,z diode compression point

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

Polarization o

φ rotation around probe axis

Polarization 9

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

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

Connector Angle

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

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

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3600

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.50	0.50	0.38	± 10.1 %
DCP (mV) ^B	101.0	100.6	101.4	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	С	gB D	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	166.7	± 2.5 %	± 4.7 %
		Y	0.00	0.00	1.00	1	170.5	'	
		Z	0.00	0.00	1.00	1	164.1		
10352-	Pulse Waveform (200Hz, 10%)	X	15.00	90.30	22.21	10.00	60.0	± 2.4 %	± 9.6 %
AAA		Y	15.00	88.99	21.68		60.0		
		Z	15.00	89.01	21.85		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	90.95	21.39	6.99	80.0	± 1.1 %	± 9.6 %
AAA		Y	15.00	88.75	20.14		80.0		
		Z	15.00	89.21	20.65		80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	15.00	96.31	22.65	3.98	95.0	± 1.1 %	± 9.6 %
AAA		Y	15.00	89.32	18.73	}	95.0		
		Z	15.00	90.75	19.85		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	15.00	103.21	24.53	2.22	120.0	± 1.1 %	± 9.6 %
AAA		Y	15.00	88.56	16.79	1	120.0		
		Z	15.00	96.17	21.11		120.0		
10387-	QPSK Waveform, 1 MHz	X	0.93	64.65	11.52	0.00	150.0	± 2.7 %	± 9.6 %
AAA	· ·	Y	0.62	60.43	8.03	1	150.0		
		Z	0.76	62.48	10.06		150.0		
10388-	QPSK Waveform, 10 MHz	X	2.44	69.57	16.62	0.00	150.0	± 1.3 %	± 9.6 %
AAA	· ·	Y	2.07	66.80	14.91	1	150.0		
		Z	2.24	68.18	15.84	1	150.0		
10396-	64-QAM Waveform, 100 kHz	X	3.63	72.95	19.84	3.01	150.0	± 0.6 %	± 9.6 %
AAA		Y	3.17	69.88	18.41	1	150.0		
		Z	3.62	72.82	19.58	1	150.0		j
10399-	64-QAM Waveform, 40 MHz	X	3.63	67.73	16.19	0.00	150.0	± 2.3 %	± 9.6 %
AAA		Y	3.42	66.57	15.44		150.0		
		Z	3.51	67.18	15.82	1	150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.97	65.90	15.75	0.00	150.0	± 4.2 %	± 9.6 %
AAA		Y	4.84	65.36	15.42	1	150.0		
		Z	4.87	65.64	15.53	1	150.0		j

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 Numerical linearization parameter: uncertainty not required.

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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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3600

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
X	50.5	376.45	35.59	21.57	0.65	5.10	1.20	0.45	1.01
Y	48.2	374.30	37.97	20.57	1.09	5.09	0.00	0.72	1.01
Z	48.2	357.37	35.15	22.08	1.03	5.07	1.65	0.38	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

EX3DV4- SN:3600

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3600

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
30	55.0	0.75	11.98	11.98	11.98	0.00	1.00	± 13.3 %
150	52.3	0.76	9.72	9.72	9.72	0.00	1.00	± 13.3 %
450	43.5	0.87	8.79	8.79	8.79	0.13	1.25	± 13.3 %
750	41.9	0.89	8.13	8.13	8.13	0.44	0.85	± 12.0 %
835	41.5	0.90	7.96	7.96	7.96	0.46	0.85	± 12.0 %
900	41.5	0.97	7.80	7.80	7.80	0.47	0.85	± 12.0 %
1640	40.2	1.31	7.26	7.26	7.26	0.28	0.85	± 12.0 %
1810	40.0	1.40	7.22	7.22	7.22	0.39	0.84	± 12.0 %
2300	39.5	1.67	7.00	7.00	7.00	0.28	0.94	± 12.0 %
2450	39.2	1.80	6.46	6.46	6.46	0.26	0.95	± 12.0 %
2600	39.0	1.96	6.32	6.32	6.32	0.28	1.10	± 12.0 %
5250	35.9	4.71	4.41	4.41	4.41	0.40	1.90	± 13.1 %
5600	35.5	5.07	4.09	4.09	4.09	0.40	1.90	± 13.1 %
5750	35.4	5.22	4.08	4.08	4.08	0.40	1.90	± 13.1 %

^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.

⁶ MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3600

Calibration Parameter Determined in Body Tissue Simulating Media

			•					
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
1810	53.3	1.52	6.82	6.82	6.82	0.30	0.87	± 12.0 %
2300	52.9	1.81	6.65	6.65	6.65	0.37	0.90	± 12.0 %
2450	52.7	1.95	6.49	6.49	6.49	0.30	0.98	± 12.0 %
2600	52.5	2.16	6.32	6.32	6.32	0.26	1.05	± 12.0 %

^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.

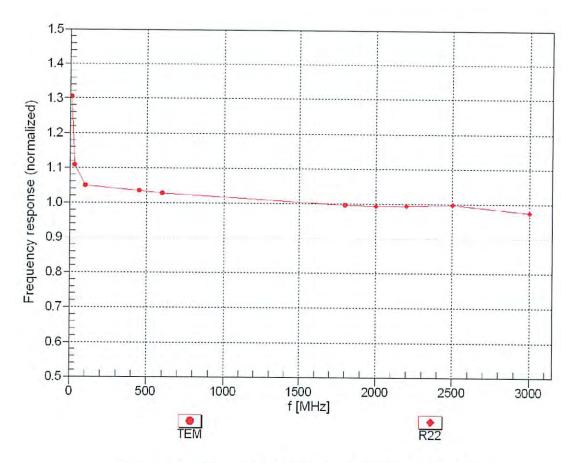
F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to

measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of

the ConvF uncertainty for indicated target tissue parameters.

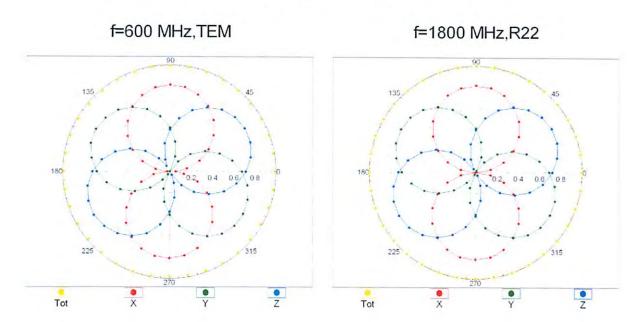
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

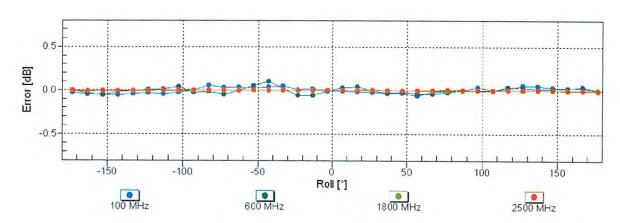
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

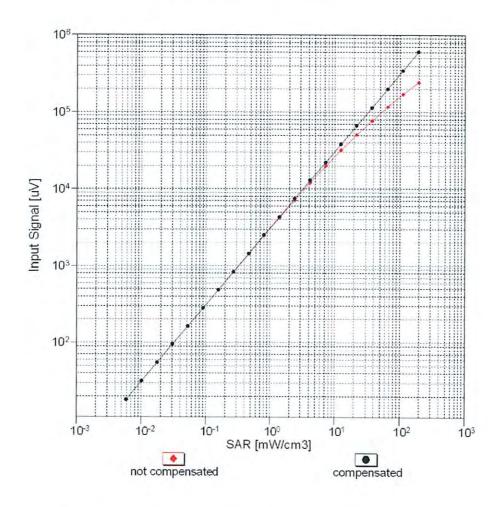
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

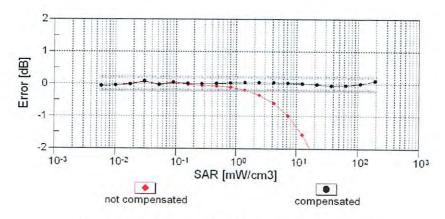




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

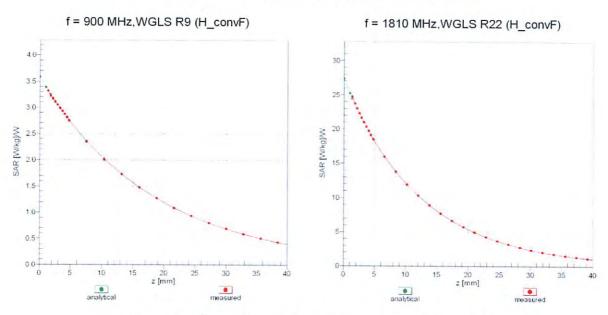
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





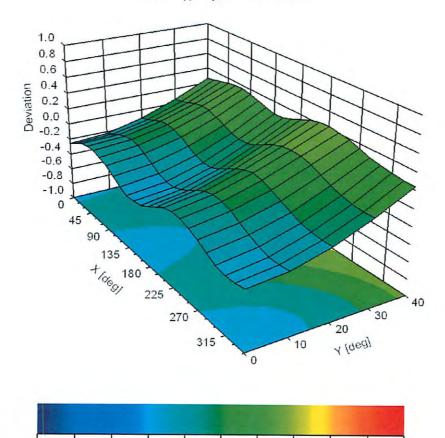
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, ϑ) , f = 900 MHz



-0.8

-0.6

-0.4

-0.2

0.0

Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

0.2

0.4

0.6

0.8

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR	Unc ^E
0.5				(dB)	(k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	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 GSM	9.55 4.80	± 9.6 % ± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	3.55	± 9.6 %
10028 10029	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3) EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10029	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10030	CAA	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 %
10034	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 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN WLAN	2.83 3.60	± 9.6 % ± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps) IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.63	± 9.6 %
10063 10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 5 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2) EDGE-FDD (TDMA, 8PSK, TN 0-4)	WCDMA GSM	3.98	±9.6%
10099 10100	DAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	9.55 5.67	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	6.42	± 9.6 % ± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 10-QAM)	LTE-FDD	6.60	± 9.6 %
10102	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	9.29	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
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40400	040	LTE EDD (CO EDL)			
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6 %
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)			± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	5.76	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.41	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.72	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHZ, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150		LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD		± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	5.46	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)		6.21	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.79	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	5.73	± 9.6 %
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.49	± 9.6 %
10173	CAG		LTE-TDD	9.21	± 9.6 %
10174	CAG	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 %
	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD		± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)		6.52	± 9.6 %
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	LTE-FDD	6.50	± 9.6 %
10194	CAC		WLAN	8.09	± 9.6 %
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
		IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196 10197	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
IIIIU/	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
	010				
10198 10219	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN WLAN	8.27 8.03	± 9.6 % ± 9.6 %

10221 CAC IEEE 802.11n HT Mixed 72.2 Miss.s 64-OAM)	10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10222						
10224 CAC IEEE 802.11n (HT Mixed, 90 Mbps, 16-OAM) WILAN 8.08 \$9.6 % 10225 CAB UMTS-FDD (HSPA+) WCDMA 8.08 \$9.6 % 10226 CAB UMTS-FDD (HSPA+) WCDMA 8.08 \$9.6 % 10226 CAB UMTS-FDD (HSPA+) WCDMA 1.TE-TDD 9.49 \$9.6 % 10227 CAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-TDD 9.49 \$9.6 % 10228 CAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-OAM) LTE-TDD 9.22 \$9.6 % 10229 CAC LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-OAM) LTE-TDD 9.22 \$9.6 % 10229 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-OAM) LTE-TDD 10.25 \$9.6 % 10230 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-OAM) LTE-TDD 10.25 \$9.6 % 10231 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-OAM) LTE-TDD 10.25 \$9.6 % 10231 CAC LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-OAM) LTE-TDD 9.48 \$9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-OAM) LTE-TDD 9.48 \$9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-OAM) LTE-TDD 9.48 \$9.6 % 10235 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-OAM) LTE-TDD 9.48 \$9.6 % 10235 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-OAM) LTE-TDD 9.24 \$9.6 % 10235 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-OAM) LTE-TDD 9.24 \$9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-OAM) LTE-TDD 9.24 \$9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-OAM) LTE-TDD 10.25 \$9.6 % 10237 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-OAM) LTE-TDD 10.25 \$9.6 % 10238 CAF LTE-TDD (SC-FDMA, 1 RB, 16 MHz, 64-OAM) LTE-TDD 10.25 \$9.6 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 16 MHz, 64-OAM) LTE-TDD 9.26 \$9.6 % 10234 CAA LTE-TDD (SC-FDMA, 1 RB, 16 MHz, 64-OAM) LTE-TDD 9.26 \$9.6 % 10234 CAA LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 16-OAM) LTE-TDD 9.26 \$9.6 % 10234 CAA LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 64-OAM) LTE-TDD 9.26 \$9.6 % 10234 CAA LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM) LTE-TDD 9.26 \$9.6 % 10234 CAA LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-OAM)						
10224 CAC LEEE 802.11n (HT Mixed, 150 Mbps, 84-QAM) WLAN 8.08 ±9.6 % 10226 CAA LTE-TDD (DISPA*) WCOMA 5.9 f. % 10226 CAA LTE-TDD (DISC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-TDD 9.49 ±9.6 % 10228 CAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-TDD 9.49 ±9.6 % 10228 CAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QFSK) LTE-TDD 9.22 ±9.6 % 10228 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD 9.22 ±9.6 % 10229 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD 10.25 ±9.6 % 10231 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD 10.25 ±9.6 % 10231 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 % 10232 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 % 10234 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 9.21 ±9.6 % 10235 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 9.21 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK) LTE-TDD 10.25 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK) LTE-TDD 10.25 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK) LTE-TDD 10.25 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK) LTE-TDD 9.24 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9.24 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9.26 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9.26 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9.26 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9.26 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK) LTE-TDD 9.26 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 50% RB, 1 MHz, GPSK)						
10225 CAB UMTS-FDD (HSPA+) WCOMA 5.97 ±9.6 % 10227 CAA ITE-TDD (SS-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-TDD 10.26 ±9.6 % 10228 CAA ITE-TDD (SS-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-TDD 10.26 ±9.6 % 10229 CAC ITE-TDD (SS-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 % 10229 CAC ITE-TDD (SS-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 % 10230 CAC ITE-TDD (SS-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD 9.48 ±9.6 % 10231 CAC ITE-TDD (SS-FDMA, 1 RB, 3 MHz, QPSK) LTE-TDD 9.19 ±9.6 % 10232 CAF ITE-TDD (SS-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 9.19 ±9.6 % 10233 CAF ITE-TDD (SS-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10233 CAF ITE-TDD (SS-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10235 CAF ITE-TDD (SS-FDMA, 1 RB, 5 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10235 CAF ITE-TDD (SS-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-TDD 10.25 ±9.6 % 10235 CAF ITE-TDD (SS-FDMA, 1 RB, 10 MHz, 16-QAM) LTE-TDD 10.25 ±9.6 % 10236 CAF ITE-TDD (SS-FDMA, 1 RB, 10 MHz, QPSK) LTE-TDD 9.48 ±9.6 % 10237 CAF ITE-TDD (SS-FDMA, 1 RB, 10 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10239 CAF ITE-TDD (SS-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 9.21 ±9.6 % 10239 CAF ITE-TDD (SS-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10239 CAF ITE-TDD (SS-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10239 CAF ITE-TDD (SS-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10234 CAA ITE-TDD (SS-FDMA, 1 RB, 15 MHz, QPSK) LTE-TDD 10.25 ±9.6 % 10234 CAA ITE-TDD (SS-FDMA, 50% RB, 1 MHz, 64-QAM) LTE-TDD 9.46 ±9.6 % 10234 CAA ITE-TDD (SS-FDMA, 50% RB, 1 MHz, 64-QAM) LTE-TDD 9.46 ±9.6 % 10234 CAA ITE-TDD (SS-FDMA, 50% RB, 1 MHz, 64-QAM) LTE-TDD 9.46 ±9.6 % 10234 CAA ITE-TDD (SS-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9.90 ±9.6 % 10234 CAA ITE-TDD (SS-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9.90 ±9.6 % 10234 CAA ITE-TDD (SS-FDMA,				WLAN		
1022F CAA				WCDMA	5.97	
10229 CAA ITE-TDD (SC-FDMA 1 RB. 14 MHz, Q-PSK)		CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10229 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 46-QAM) LTE-TDD 9.48 ±9.6 % 10231 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-TDD 9.19 ±9.6 % 10232 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 1 GAM) LTE-TDD 9.48 ±9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 1 GAM) LTE-TDD 9.48 ±9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-TDD 10.25 ±9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-TDD 10.25 ±9.6 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-TDD 9.48 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-TDD 9.48 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-TDD 9.48 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-TDD 9.48 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 16 MHz, 64-QAM) LTE-TDD 9.48 ±9.6 % 10236 CAF LTE-TDD (SC-FDMA, 1 RB, 16 MHz, 64-QAM) LTE-TDD 9.48 ±9.6 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 16 MHz, 64-QAM) LTE-TDD 9.48 ±9.6 % 10234 CAF LTE-TDD (SC-FDMA, 1 RB, 16 MHz, 64-QAM) LTE-TDD 10.25 ±9.6 % 10241 CAA LTE-TDD ISC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.25 ±9.6 % 10242 CAA LTE-TDD ISC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.21 ±9.6 % 10242 CAA LTE-TDD ISC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.86 ±9.6 % 10244 CAC LTE-TDD ISC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9.86 ±9.6 % 10244 CAC LTE-TDD ISC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9.86 ±9.6 % 10246 CAC LTE-TDD ISC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.08 ±9.6 % 10246 CAC LTE-TDD ISC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 10.08 ±9.6 % 10246 CAF LTE-TDD ISC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 10.08 ±9.6 % 10246 CAF LTE-TDD ISC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.30 ±9.6 % 10246 CAF LTE-TDD ISC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.91 ±9.6 % 10246 CAF LT	10227	CAA				
10230 CAC LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-TDD 10,25 ±9,8 % 10232 CAF LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 2 MC-QAM) LTE-TDD 9,48 ±9,8 % 10232 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-TDD 9,48 ±9,8 % 10233 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-TDD 9,48 ±9,8 % 10234 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-TDD 9,48 ±9,8 % 10235 CAF LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM) LTE-TDD 9,21 ±9,8 % 10235 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-TDD 9,21 ±9,8 % 10237 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-TDD 10,25 ±9,8 % 10238 CAF LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM) LTE-TDD 9,21 ±9,8 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-TDD 9,48 ±9,6 % 10239 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-TDD 9,48 ±9,6 % 10240 CAF LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM) LTE-TDD 9,48 ±9,6 % 10240 CAF LTE-TDD (SC-FDMA, 50% RB, 1 AM Hz, 16-QAM) LTE-TDD 9,21 ±9,6 % 10240 CAA LTE-TDD (SC-FDMA, 50% RB, 1 AM Hz, 16-QAM) LTE-TDD 9,21 ±9,6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1 AM Hz, 64-QAM) LTE-TDD 9,22 ±9,6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1 AM Hz, 64-QAM) LTE-TDD 9,86 ±9,6 % 10243 CAA LTE-TDD (SC-FDMA, 50% RB, 1 AM Hz, 64-QAM) LTE-TDD 9,46 ±9,6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9,46 ±9,6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9,46 ±9,6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10,06 ±9,6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10,06 ±9,6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9,09 ±9,6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 64-QAM) LTE-TDD 9,09 ±9,6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 64-QAM) LTE-TDD	10228	CAA				
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10240 CAF LTE-TDD SC-FDMA, 1 RB 15 MHz, QPSK) LTE-TDD 9.21 ±9.6 % 10241 CAA LTE-TDD SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.82 ±9.6 % 10242 CAA LTE-TDD SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.86 ±9.6 % 10243 CAA LTE-TDD SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.86 ±9.6 % 10243 CAA LTE-TDD SC-FDMA, 50% RB, 1.4 MHz, 0FSK) LTE-TDD 10.06 ±9.6 % 10245 CAC LTE-TDD SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.06 ±9.6 % 10245 CAC LTE-TDD SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.06 ±9.6 % 10247 CAC LTE-TDD SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9.30 ±9.6 % 10247 CAF LTE-TDD SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.30 ±9.6 % 10247 CAF LTE-TDD SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.91 ±9.6 % 10249 CAF LTE-TDD SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.91 ±9.6 % 10250 CAF LTE-TDD SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.29 ±9.6 % 10251 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 9.29 ±9.6 % 10253 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 9.29 ±9.6 % 10253 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 10.17 ±9.6 % 10252 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 10.17 ±9.6 % 10253 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 9.00 ±9.6 % 10253 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 9.00 ±9.6 % 10255 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 9.00 ±9.6 % 10255 CAA LTE-TDD SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 9.00 ±9.6 % 10256 CAA LTE-TDD SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-TDD 9.00 ±9.6 % 10256 CAA LTE-TDD SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-TDD 9.00 ±9.6 % 10256 CAA LTE-TDD SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.90 ±9.6 % 10256 CAA LTE-TDD SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 9.90 ±9.6 % 102						
10241 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.82 2.9.6 % 10242 CAA LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 9.86 2.9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.05 2.9.6 % 10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.05 2.9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.05 2.9.6 % 10246 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 10.05 2.9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM) LTE-TDD 9.30 2.9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.30 2.9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 10.09 2.9.8 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 10.09 2.9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-TDD 9.29 2.9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 9.21 2.9.6 % 10251 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 9.21 2.9.6 % 10252 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 0.17 2.9.6 % 10252 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 0.17 2.9.6 % 10253 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-TDD 0.17 2.9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-TDD 0.17 2.9.6 % 10256 CAA LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-TDD 0.14 2.9.5 % 10256 CAA LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-TDD 0.14 2.9.5 % 10256 CAA LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 0.14 2.9.5 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD 0.16 2.9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD 0.16 2.9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-TDD 0.16 2.9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 0.9.6 2.9.6 %						
10242						
10243				LTE-TDD	9.86	± 9.6 %
10244 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-TDD 10.06 ± 9.6 % 10245 CAC LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QA-QAM) LTE-TDD 10.06 ± 9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK) LTE-TDD 9.30 ± 9.6 % 10247 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QA-QAM) LTE-TDD 9.91 ± 9.6 % 10248 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QA-QAM) LTE-TDD 9.91 ± 9.6 % 10249 CAF LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QA-QAM) LTE-TDD 9.29 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.29 ± 9.6 % 10250 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.29 ± 9.6 % 10251 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10252 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10253 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10253 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10257 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-TDD 9.01 ± 9.6 % 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, G4-QAM) LTE-TDD 9.02 ± 9.6 % 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, G4-QAM) LTE-TDD 9.02 ± 9.6 % 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, G4-QAM) LTE-TDD 9.03 ± 9.6 % 10256 CAC LTE-TDD (SC-FDMA, 100% RB, 5 MHz, G4-QAM) LTE-TDD 9.03 ± 9.6 % 10256 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, GA-QAM) LTE-TDD 9.03 ± 9.6 % 10256 CAF LTE-TDD (SC-FDMA,				LTE-TDD		
10246			LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)		10.06	± 9.6 %
10247 CAF	10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)			
10248 CAF	10246	CAC				
10249 CAF LTE-TDD SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-TDD 9.29 ± 9.6 % 10250 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-TDD 10.17 ± 9.6 % 10251 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-TDD 10.17 ± 9.6 % 10252 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10253 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 10.14 ± 9.6 % 10253 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-TDD 10.14 ± 9.6 % 10255 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, G4-QAM) LTE-TDD 10.14 ± 9.6 % 10255 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-TDD 9.20 ± 9.6 % 10256 CAA LTE-TDD SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.96 ± 9.6 % 10256 CAA LTE-TDD SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.08 ± 9.6 % 10258 CAA LTE-TDD SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.08 ± 9.6 % 10259 CAC LTE-TDD SC-FDMA, 100% RB, 1.4 MHz, GPSK) LTE-TDD 9.34 ± 9.6 % 10259 CAC LTE-TDD SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD 9.74 ± 9.6 % 10256 CAC LTE-TDD SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD 9.77 ± 9.6 % 10260 CAC LTE-TDD SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD 9.77 ± 9.6 % 10260 CAC LTE-TDD SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD 9.77 ± 9.6 % 10260 CAC LTE-TDD SC-FDMA, 100% RB, 5 MHz, 64-QAM) LTE-TDD 9.24 ± 9.6 % 10260 CAF LTE-TDD SC-FDMA, 100% RB, 5 MHz, 64-QAM) LTE-TDD 9.83 ± 9.6 % 10260 CAF LTE-TDD SC-FDMA, 100% RB, 5 MHz, 64-QAM) LTE-TDD 9.24 ± 9.6 % 10260 CAF LTE-TDD SC-FDMA, 100% RB, 5 MHz, 64-QAM) LTE-TDD 9.23 ± 9.6 % 10260 CAF LTE-TDD SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.16 ± 9.6 % 10260 CAF LTE-TDD SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.06 ± 9.6 % 10260 CAF LTE-TDD SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-TDD 10.07 ± 9.6 % 10260 CAF LTE-TDD SC-FDMA, 100% RB, 15 MHz, 64-Q	10247	CAF				
10250 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, 16-QAM LTE-TDD 9.81 ±9.6 % 10251 CAF LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM LTE-TDD 10.17 ±9.6 % 10252 CAF LTE-TDD SC-FDMA, 50% RB, 10 MHz, QPSK LTE-TDD 9.24 ±9.6 % 10253 CAF LTE-TDD SC-FDMA, 50% RB, 15 MHz, 16-QAM LTE-TDD 9.90 ±9.6 % 10254 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM LTE-TDD 9.90 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK LTE-TDD 9.90 ±9.6 % 10255 CAF LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK LTE-TDD 9.90 ±9.6 % 10256 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK LTE-TDD 9.96 ±9.6 % 10257 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK LTE-TDD 9.96 ±9.6 % 10258 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK LTE-TDD 9.96 ±9.6 % 10258 CAA LTE-TDD (SC-FDMA, 100% RB, 14 MHz, QPSK LTE-TDD 9.96 ±9.6 % 10258 CAA LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK LTE-TDD 9.98 ±9.6 % 10250 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK LTE-TDD 9.98 ±9.6 % 10250 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK LTE-TDD 9.97 ±9.6 % 10250 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK LTE-TDD 9.97 ±9.6 % 10250 CAC LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK LTE-TDD 9.97 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK LTE-TDD 9.97 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK LTE-TDD 9.93 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK LTE-TDD 9.93 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK LTE-TDD 9.92 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK LTE-TDD 9.92 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK LTE-TDD 9.92 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK LTE-TDD 9.92 ±9.6 % 10250 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK LTE-TDD 9.93 ±9.6 % 10250 CAF LT						
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10255 CAF						
10256 CAA LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-TDD 9.96 ± 9.6 % 10257 CAA LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-TDD 10.08 ± 9.6 % 10258 CAA LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-TDD 9.34 ± 9.6 % 10259 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9.98 ± 9.6 % 10260 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, G4-QAM) LTE-TDD 9.97 ± 9.6 % 10261 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9.97 ± 9.6 % 10262 CAF LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10262 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, G4-QAM) LTE-TDD 9.24 ± 9.6 % 10263 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, G4-QAM) LTE-TDD 9.23 ± 9.6 % 10264 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, GPSK) LTE-TDD 9.23 ± 9.6 % 10265 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, GPSK) LTE-TDD 9.23 ± 9.6 % 10266 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, GPSK) LTE-TDD 9.92 ± 9.6 % 10267 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, GPSK) LTE-TDD 9.92 ± 9.6 % 10268 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, GPSK) LTE-TDD 10.06 ± 9.6 % 10269 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, G4-QAM) LTE-TDD 10.06 ± 9.6 % 10270 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, G4-QAM) LTE-TDD 10.13 ± 9.6 % 10270 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, G4-QAM) LTE-TDD 10.13 ± 9.6 % 10273 CAB LTE-TDD (SC-FDMA, 100% RB, 15 MHz, G4-QAM) LTE-TDD 10.13 ± 9.6 % 10275 CAB LTE-TDD (SC-FDMA, 100% RB, 15 MHz, G4-QAM) LTE-TDD 9.58 ± 9.6 % 10276 CAA PHS (QPSK) LTE-TDD 9.58 ± 9.6 % 10277 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10299 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.50 ± 9.6 % 10293 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.50 ± 9.6 %						
10257						
10258						
10259 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-TDD 9.98 ± 9.6 % 10260 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD 9.97 ± 9.6 % 10261 CAC LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-TDD 9.24 ± 9.6 % 10262 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM) LTE-TDD 9.83 ± 9.6 % 10263 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 10.16 ± 9.6 % 10264 CAF LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK) LTE-TDD 9.23 ± 9.6 % 10265 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM) LTE-TDD 9.22 ± 9.6 % 10266 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) LTE-TDD 9.92 ± 9.6 % 10266 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) LTE-TDD 10.07 ± 9.6 % 10268 CAF LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK) LTE-TDD 9.30 ± 9.6 % 10269 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-TDD 10.06 ± 9.6 % 10269 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 10.13 ± 9.6 % 10270 CAF LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK) LTE-TDD 10.13 ± 9.6 % 10274 CAB UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ± 9.6 % 10277 CAA PHS (QPSK) Subtest 5, 3GPP Rel8.10) WCDMA 4.87 ± 9.6 % 10278 CAA PHS (QPSK, BW 884MHz, Rolloff 0.5) PHS 11.81 ± 9.6 % 10279 CAA PHS (QPSK, BW 884MHz, Rolloff 0.38) PHS 11.81 ± 9.6 % 10291 AAB CDMA2000, RC1, SO55, Full Rate CDMA2000 3.46 ± 9.6 % 10292 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.50 ± 9.6 % 10292 AAB CDMA2000, RC3, SO55, Full Rate CDMA2000 3.50 ± 9.6 % 10293 AAB CDMA2000, RC3, SO32, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC3, SO35, Full Rate CDMA2000 3.50 ± 9.6 % 10295 AAB CDMA2000, RC3, SO35, Full Rate CDMA2000 12.49 ± 9.6 % 10295 AAB CDMA2000, RC3, SO35, Full Rate CDMA2000 12.49 ± 9.6 % 10295 AAB CDMA2000, RC3, SO35, Full Rate CDMA2000 12.49 ± 9.6 % 10295 AAB CDMA2000, RC3						
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10299 AAD LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM) LTE-FDD 6.39 ± 9.6 %						
	10299	AAD	LIE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	<u>±9.6 %</u>

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE EDD	0.00	. 0 0 0/
10313	AAA	iDEN 1:3	IDEN	6.06	± 9.6 %
10314	AAA	iDEN 1:6	IDEN	10.51	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	13.48	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	
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	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 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	AAF	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, 40MHz	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	AAB	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	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10448					
10448 10449 10450	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %

MASS	10451	T AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10457 AAA UMTS-FDD (ICC-HSDPA) WCDMA 6.62 19.6 % 10459 AAA CDMA2000 (IKEV-DQ, Rev. B, 3 carriers) CDMA2000 (6.55 19.6 % 10459 AAA CDMA2000 (IKEV-DQ, Rev. B, 3 carriers) CDMA2000 A.52 19.6 % 10460 AAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL LTE-TDD 7.82 19.6 % 10461 AAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL LTE-TDD 7.82 19.6 % 10462 AAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL LTE-TDD 8.30 19.6 % 10463 AAA LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL LTE-TDD 8.566 19.6 % 10464 AAB LTE-TDD (SC-FDMA, 1 RB, 1 AMHz, 0 AQM, UL LTE-TDD 8.566 19.6 % 10465 AAB LTE-TDD (SC-FDMA, 1 RB, 3 MHz, G-QAM, UL LTE-TDD 8.32 19.6 % 10466 AAB LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 6-QAM, UL LTE-TDD 8.57 19.6 % 10466 AAB LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 6-QAM, UL LTE-TDD 8.57 19.6 % 10467 AAE LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 6-QAM, UL LTE-TDD 8.57 19.6 % 10468 AAE LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 0 AQM, UL LTE-TDD 8.57 19.6 % 10469 AAE LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM, UL LTE-TDD 8.32 19.6 % 10469 AAE LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM, UL LTE-TDD 8.32 19.6 % 10469 AAE LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM, UL LTE-TDD 8.32 19.6 % 10469 AAE LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM, UL LTE-TDD 8.32 19.6 % 10470 AAE LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM, UL LTE-TDD 8.32 19.6 % 10470 AAE LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 6-QAM, UL LTE-TDD 8.32 19.6 % 10471 AAE LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 6-QAM, UL LTE-TDD 8.32 19.6 % 10472 AAE LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 6-QAM, UL LTE-TDD 8.57 19.6 % 10473 AAE LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 6-QAM, UL LTE-TDD 8.57 19.6 % 10473 AAE LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 6-QAM, UL LTE-TDD 8.57 19.6 % 10473 AAE LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 6-QAM, UL LTE-TDD 8.57 19.6 % 10474 AAE LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 6-QAM, UL LTE					_	
10488 AAA CDMA2000 (1xEV-DQ, Rev. B, 2 carriers) CDMA2000 8.55 ±9.6 % 10460 AAA CDMA2000 (1xEV-DQ, Rev. B, 3 carriers) CDMA2000 8.25 ±9.6 % 10461 AAA LTE-TDD (6xF-DMA, AMR) WCOMA 2.39 ±9.6 % 10462 AAA LTE-TDD (6xF-DMA, AMR) LTE-TDD (5xF-DMA, 1RB, 1.4 MHz, 16-QAM, UL LTE-TDD 7.82 ±9.6 % 10463 AAA LTE-TDD (5xF-DMA, 1RB, 1.4 MHz, 16-QAM, UL LTE-TDD 8.30 ±9.6 % 10463 AAA LTE-TDD (5xF-DMA, 1RB, 3 MHz, 16-QAM, UL LTE-TDD 8.56 ±9.6 % 10464 AAB LTE-TDD (5xF-DMA, 1RB, 3 MHz, 16-QAM, UL LTE-TDD 7.82 ±9.6 % 10465 AAB LTE-TDD (5xF-DMA, 1RB, 3 MHz, 16-QAM, UL LTE-TDD 8.30 ±9.6 % 10466 AAB LTE-TDD (5xF-DMA, 1RB, 5 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % 10466 AAB LTE-TDD (5xF-DMA, 1RB, 5 MHz, 16-QAM, UL LTE-TDD 8.57 ±9.6 % 10466 AAB LTE-TDD (5xF-DMA, 1RB, 5 MHz, 16-QAM, UL LTE-TDD 8.57 ±9.6 % 10467 AAE LTE-TDD (5xF-DMA, 1RB, 5 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % 10468 AAE LTE-TDD (5xF-DMA, 1RB, 5 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % 10469 AAE LTE-TDD (5xF-DMA, 1RB, 5 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % 10469 AAE LTE-TDD (5xF-DMA, 1RB, 5 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % 10469 AAE LTE-TDD (5xF-DMA, 1RB, 10 MHz, 16-QAM, UL LTE-TDD 8.56 ±9.6 % 10469 AAE LTE-TDD (5xF-DMA, 1RB, 10 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % 10470 AAE LTE-TDD (5xF-DMA, 1RB, 10 MHz, 16-QAM, UL LTE-TDD 8.56 ±9.6 % 10470 AAE LTE-TDD (5xF-DMA, 1RB, 10 MHz, 16-QAM, UL LTE-TDD 8.57 ±9.6 % 10473 AAE LTE-TDD (5xF-DMA, 1RB, 10 MHz, 16-QAM, UL LTE-TDD 8.57 ±9.6 % 10473 AAE LTE-TDD (5xF-DMA, 1RB, 10 MHz, 16-QAM, UL LTE-TDD 8.57 ±9.6 % 10474 AAE LTE-TDD (5xF-DMA, 1RB, 10 MHz, 16-QAM, UL LTE-TDD 8.57 ±9.6 % 10474 AAE LTE-TDD (5xF-DMA, 50% RB, 1.4 MHz, 16-QAM, UL LTE-TDD 8.57 ±9.6 % 10476 AAE LTE-TDD (5xF-DMA, 50% RB, 1.4 MHz, 16-QAM, UL LTE-TDD 8.59 ±9.6 % 10476 AAE LTE-TDD (5xF-D						
10459 AAA CDMA2000 (1xEV-DD, Rev. B, 3 carriers)						
10460						
10461						
10462			LITE TOD (CO EDMA 1 DD 1 4 MHz ODCK 18			
10462	10461	***		LIE-IDD	7.82	± 9.6 %
Subframe=2,3,4,7,8,9	10462	AAA		LTF-TDD	8.30	+96%
10463	10402	1,,,,,			0.00	± 3.5 %
10464 AB LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL LTE-TDD R.32 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL LTE-TDD R.52 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL LTE-TDD R.56 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL LTE-TDD R.56 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 5 MHz, GPSK, UL LTE-TDD R.56 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK, UL LTE-TDD R.56 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK, UL LTE-TDD R.52 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, GPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, GPSK, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL LTE-TDD R.57 ±9.6 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 64-QAM, UL LTE-TDD R.59 % Subframe-2.3.4,7.8.9 LTE-TDD (SC-FDMA, 50% RB, 1 MHz, 64-QAM, UL LTE-TDD R.59 % Subframe-2.3.4,7.8.9 LTE-TDD (S	10463	ΔΔΔ		LTF-TDD	8 56	+96%
10464	10100	' ' ' '		2.2.100	0.00	20.0 %
Subframe-2,3,4,7,8,9 Subframe-2,3,4,7,8,9	10464	AAR	LTE-TDD (SC-EDMA, 1 RB, 3 MHz, QPSK, UI	LTF-TDD	7.82	+96%
10465	'' '' '	' ' ' ' '				- 0.0 /0
Subframe=2,3,4,7,8,9	10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10466					5.52	
Subframe=2,3,4,7,8,9	10466	AAB		LTE-TDD	8.57	± 9.6 %
10467 AAE						2010 10
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 15 RB, 15 MHz, 16 MHz, 15 MH	10467	AAE		LTE-TDD	7.82	± 9.6 %
10468						
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL LTE-TDD (SC-FDMA, 15 MR) Subframe=2,34,7,8,9 Subframe=2,34,7,8,	10468	AAE		LTE-TDD	8.32	± 9.6 %
10469	''	' ' ' '				
Subframe=2,3,4,7,8,9	10469	AAE		LTE-TDD	8.56	± 9.6 %
10470		' ' ' '				
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % Subframe=2,34,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD 8.57 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL LTE-TDD 7.82 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL LTE-TDD 8.57 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL LTE-TDD 8.57 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL LTE-TDD 8.32 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL LTE-TDD 8.57 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL LTE-TDD 7.74 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL LTE-TDD 8.18 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL LTE-TDD 8.18 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL LTE-TDD 8.45 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL LTE-TDD 8.45 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL LTE-TDD 8.39 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL LTE-TDD 8.47 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL LTE-TDD 8.47 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL LTE-TDD 8.39 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL LTE-TDD 8.39 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL LTE-TDD 8.39 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL LTE-TDD 8.30 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL LTE-TDD 8.31 ±9.6 % Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL LTE-T	10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10471						
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL LTE-TDD R.57	10471	AAE		LTE-TDD	8.32	± 9.6 %
10472						
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) 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, QPSK, UL Subframe=2,3,4,7,8,9) 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, QPSK, UL Subframe=2,3,4,7,8,9) 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, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	10472	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10473		1	Subframe=2,3,4,7,8,9)			ļ
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) 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, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9) 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, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, GPSK, UL Subframe=2,3,4,7,8,9) LT	10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10474			Subframe=2,3,4,7,8,9)			
Subframe=2,3,4,7,8,9	10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD S.57			Subframe=2,3,4,7,8,9)			
10477 AAF LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) 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, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) </td <td>10475</td> <td>AAE</td> <td>LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL</td> <td>LTE-TDD</td> <td>8.57</td> <td>± 9.6 %</td>	10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL						
10478	10477	AAF		LTE-TDD	8.32	± 9.6 %
Subframe=2,3,4,7,8,9			Subframe=2,3,4,7,8,9)			
10479	10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) 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 (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, G4-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL STE-TDD (SC-FDMA, 50% RB, 15			Subframe=2,3,4,7,8,9)			
10480 AAA 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 AAA 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 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.71 ± 9.6 % 10483 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.39 ± 9.6 % 10484 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.47 ± 9.6 % 10485 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.59 ± 9.6 % 10486 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10489 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.54 ± 9.6 % 10490 AAE LTE-TDD (SC-FDMA,	10479	AAA		LTE-TDD	7.74	± 9.6 %
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) 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, 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 (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL STE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL STE-TDD (SC-FDMA,						
10481 AAA 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 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.71 ± 9.6 % 10483 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.39 ± 9.6 % 10484 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.47 ± 9.6 % 10485 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.59 ± 9.6 % 10486 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10489 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74	10480	AAA		LTE-TDD	8.18	± 9.6 %
Subframe=2,3,4,7,8,9) 10482 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) 10483 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) 10484 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) 10485 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) 10486 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) 10487 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) 10488 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) 10489 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL LTE-TDD 7.70 ± 9.6 % Subframe=2,3,4,7,8,9) 10489 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL LTE-TDD 8.31 ± 9.6 % Subframe=2,3,4,7,8,9) 10490 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL LTE-TDD 8.54 ± 9.6 % Subframe=2,3,4,7,8,9) 10491 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL LTE-TDD 8.54 ± 9.6 % Subframe=2,3,4,7,8,9)						
10482 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.71 ± 9.6 % 10483 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.39 ± 9.6 % 10484 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.47 ± 9.6 % 10485 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.59 ± 9.6 % 10486 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10488 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.74 ± 9.6 %	10481	AAA		LTE-TDD	8.45	± 9.6 %
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10484 AAB LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.47 ± 9.6 % 10485 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.59 ± 9.6 % 10486 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10488 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10483	AAB	LIE-100 (SC-FDMA, 50% KB, 3 MMZ, 16-QAM, UL	LIE-IDD	0.39	I 9.0 %
Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD T.59	46464		OUDITATION (CO. EDNA	I TE TOO	0.47	1060
10485 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.59 ± 9.6 % 10486 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10488 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 8.31 ± 9.6 % 10490 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10484	AAB		LIE-IDD	0.47	I 9.0 %
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 S.38	40405	1	SUDITATION (CO. EDMA. EOV. DD. E.M.L. ODOV. LII	I TE TOD	7.50	1060/
10486 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10489 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10485	AAE		LIE-IUU	7.59	± 9.0 %
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10487 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10489 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10486	AAE		LIE-IDD	0.30	1 9.0 %
Subframe=2,3,4,7,8,9	10407	100		I TE-TOO	8 60	+96%
10488 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9) LTE-TDD 7.70 ± 9.6 % 10489 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10487	**		1 515-100	0.00	1 3.0 /6
Subframe=2,3,4,7,8,9 LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10499		LTE TDD (SC-EDMA 50% RR 10 MHz OPSK III	I TE-TOD	7 70	+96%
10489 AAE 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 AAE 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 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10488	AAE		[[[[]	1.70	1 3.0 /6
Subframe=2,3,4,7,8,9) 10490 AAE	10490	AAE	LTE TDD (SC EDMA 50% PR 10 MHz 16 OAM III	I TE-TOD	8 31	+96%
10490 AAE LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL LTE-TDD 8.54 ± 9.6 % Subframe=2,3,4,7,8,9) 10491 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10489	AAE		=100	3.31	± 9.0 /0
Subframe=2,3,4,7,8,9)	10400			I TE-TOD	8 54	+96%
10491 AAE LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL LTE-TDD 7.74 ± 9.6 %	10490	\ \^\E		-100	3.07	
	10404		LTE-TOD (SC-FDMA 50% RR 15 MHz OPSK III	I TF-TDD	7 74	±96%
Jubitanie=2,0,7,1,0,0/	10491	~~E			'	
			Quonamo-2,0,7,1,0,0)		1	

10492	AAE	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	AAE	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	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10495	AAF	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	AAF	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	AAA	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	AAA	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	AAA	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	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10501	AAB	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	AAB	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	± 9.6 %
10504	AAE	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10507	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	± 9.6 %
10508	AAE	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	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	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	AAE	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	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10513	AAF	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	AAF	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	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN		
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	IVVLAIN	8.38	± 9.6 %

10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)			
			WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	± 9.6 %
1		cycle)			
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6 %
		cycle)	1		
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	± 9.6 %
	' '	cycle)	**- ***		
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
10007	/**	cycle)		0.00	20.0 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	± 9.6 %
10000	/**	cycle)	***	0.07	20.0 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
10000	1,000	cycle)	***	0.10	20.0 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
10370	1,000	cycle)	***	0.00	10.0 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
			WLAN	1.98	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)			
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN	8.59	± 9.6 %
40555	1	cycle)	VA/L A N I	0.00	1000
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN	8.60	± 9.6 %
40555	-	cycle)	JA/L A N I	0.70	1000
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN	8.70	± 9.6 %
40570	1	cycle)	VA/L A A I	0.40	+060/
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN	8.49	± 9.6 %
L	 	cycle)	14/1 441	0.00	. 0 0 0′
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty	WLAN	8.36	± 9.6 %
		cycle)			
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN	8.76	± 9.6 %
		cycle)		<u> </u>	
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN	8.35	± 9.6 %
		cycle)			
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN	8.67	± 9.6 %
		cycle)			
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %

40500	1 4 4 5				
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6%
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN		± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)		8.71	± 9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10599		IFFE 002.1111 (IT Mixed, 20MID, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN		
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)		8.57	± 9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10612	AAB		WLAN	8.70	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10614	+	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)			± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10627	AAB		WLAN	8.83	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
		IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)			± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10642	AAC	IFFE 802 11ac WiFi (160MU- MOCC 00- 4	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
		IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	± 9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	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	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	
			1 - 1 - 1 DD	0.30	± 9.6 %

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10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	± 9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	± 9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	± 9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	± 9.6 %
	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10692			WLAN	8.25	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN		
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)		8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	± 9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	± 9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.67	± 9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	± 9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	± 9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	± 9.6 %
	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10721		IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.55	± 9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.90	± 9.6 %
10724	AAA		WLAN	8.74	± 9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.66	± 9.6 %
10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)		0.00	1 2 3.0 /0

10728	40720	1 A A A	IEEE 000 44cm (00MU- MO00 00 data and)	1 100 001		
10730	10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	± 9.6 %
10731 AAA IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)			IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)			
10732						
10733						
10734						
10735						
10736						± 9.6 %
10737			IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)		8.33	± 9.6 %
10738			IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN		± 9.6 %
10739			IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)		8.36	± 9.6 %
10740			IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)		8.42	± 9.6 %
10741 AAA IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)				WLAN	8.29	± 9.6 %
10742				WLAN	8.48	± 9.6 %
10743			IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	± 9.6 %
10744			IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10745 AAA IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle) WLAN 8.93 ± 9.6 % 10747 AAA IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle) WLAN 9.11 ± 9.6 % 10748 AAA IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle) WLAN 8.93 ± 9.6 % 10749 AAA IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle) WLAN 8.90 ± 9.6 % 10750 AAA IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle) WLAN 8.79 ± 9.6 % 10751 AAA IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle) WLAN 8.79 ± 9.6 % 10752 AAA IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle) WLAN 8.82 ± 9.6 % 10753 AAA IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) WLAN 8.81 ± 9.6 % 10753 AAA IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle) WLAN 8.81 ± 9.6 % 10754 AAA IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle) WLAN 8.94 ± 9.6 % 10755 AAA IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle) WLAN 8.94 ± 9.6 % 10756 AAA IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle) WLAN 8.94 ± 9.6 % 10755 AAA IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle) WLAN 8.77 ± 9.6 % 10756 AAA IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle) WLAN 8.77 ± 9.6 % 10758 AAA IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle) WLAN 8.77 ± 9.6 % 10758 AAA IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle) WLAN 8.77 ± 9.6 % 10758 AAA IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle) WLAN 8.77 ± 9.6 % 10758 AAA IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle) WLAN 8.69 ± 9.6 % 10758 AAA IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle) WLAN 8.58 ± 9.6 % 10760 AAA IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle) WLAN 8.58 ± 9.6 % 10761 AAA IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle) WLAN 8.58 ± 9.6 % 10764 AAA IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle) WLAN 8.58 ± 9.6 % 10764 AAA IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) WLAN 8.59 ± 9.6 % 10764 AAA IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) WLAN 8.59 ± 9.6 % 10764 AAA IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) WLAN 8.59 ± 9.6 % 10764 AAA IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) WLAN 8.54 ± 9.6 % 10765 AAA IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle) WLAN 8.54 ± 9.6 % 10764 AAA IEEE 802.11ax (160MHz, MCS9, 90pc d			IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	± 9.6 %
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10746			IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	
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^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Test Report S/N: Test Report Issue Date:

45461575 R1.0

6 February 2020

APPENDIX F - DIPOLE CALIBRATION

Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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

Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Client

Celltech

Certificate No: D5GHzV2-1031_Apr18

CALIBRATION CERTIFICATE

Object D5GHzV2 - SN:1031

Multilateral Agreement for the recognition of calibration certificates

Calibration procedure(s) QA CAL-22.v3

Calibration procedure for dipole validation kits between 3-6 GHz

Calibration date: April 26, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

Certificate No: D5GHzV2-1031_Apr18

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
Reference Probe EX3DV4	SN: 3503	30-Dec-17 (No. EX3-3503_Dec17)	Dec-18
DAE4	SN: 601	26-Oct-17 (No. DAE4-601_Oct17)	Oct-18
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18
	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	Vah
Approved by:	Katja Pokovic	Technical Manager	mur

Issued: April 26, 2018

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

Page 1 of 13

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TSL tissue simulating liquid

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

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Certificate No: D5GHzV2-1031_Apr18 Page 2 of 13

Measurement Conditions

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

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz	
•	5750 MHz ± 1 MHz	

Head TSL parameters at 5250 MHz The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.3 ± 6 %	4.61 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.99 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.9 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1031_Apr18 Page 3 of 13

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	35.8 ± 6 %	4.98 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	8.54 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	85.5 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.43 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.3 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5750 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.5 ± 6 %	5.13 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.04 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1031_Apr18

Body TSL parameters at 5250 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.36 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.1 ± 6 %	5.49 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5250 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.68 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	76.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.2 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.5 ± 6 %	5.98 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	••••	

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.16 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	81.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.5 W/kg ± 19.5 % (k=2)

Certificate No: D5GHzV2-1031_Apr18

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

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.3	5.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.2 ± 6 %	6.18 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5750 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.69 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	76.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 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 5250 MHz

Impedance, transformed to feed point	49.1 Ω - 9.3 jΩ	
Return Loss	- 20.6 dB	

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	53.1 Ω - 5.9 jΩ	
Return Loss	- 23.8 dB	

Antenna Parameters with Head TSL at 5750 MHz

Impedance, transformed to feed point	56.8 Ω - 7.9 jΩ	
Return Loss	- 20.2 dB	

Antenna Parameters with Body TSL at 5250 MHz

Impedance, transformed to feed point	48.8 Ω - 7.5 jΩ	
Return Loss	- 22.3 dB	

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	55.0 Ω - 5.7 jΩ	
Return Loss	- 22.8 dB	

Antenna Parameters with Body TSL at 5750 MHz

Impedance, transformed to feed point	58.1 Ω - 6.5 jΩ
Return Loss	- 20.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.197 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
Manufactured on	July 09, 2004

Certificate No: D5GHzV2-1031_Apr18 Page 7 of 13

DASY5 Validation Report for Head TSL

Date: 26.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1031

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

Medium parameters used: f = 5250 MHz; $\sigma = 4.61$ S/m; $\epsilon_r = 36.3$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5600 MHz; $\sigma = 4.98$ S/m; $\epsilon_r = 35.8$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5750 MHz; $\sigma = 5.13$ S/m; $\epsilon_r = 35.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.51, 5.51, 5.51); Calibrated: 30.12.2017, ConvF(5.05, 5.05, 5.05); Calibrated: 30.12.2017, ConvF(4.98, 4.98, 4.98); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601 (5GHz); Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

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

Reference Value = 74.58 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.8 W/kg

SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.29 W/kg

Maximum value of SAR (measured) = 17.8 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 = 75.24 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 8.54 W/kg; SAR(10 g) = 2.43 W/kg

Maximum value of SAR (measured) = 19.9 W/kg

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

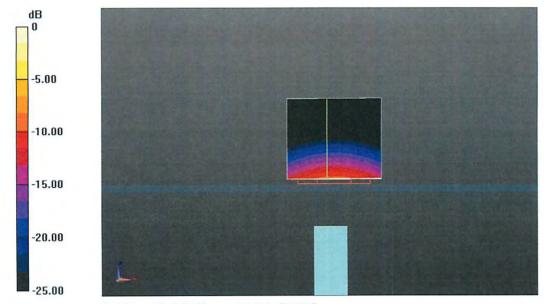
dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.94 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.3 W/kg

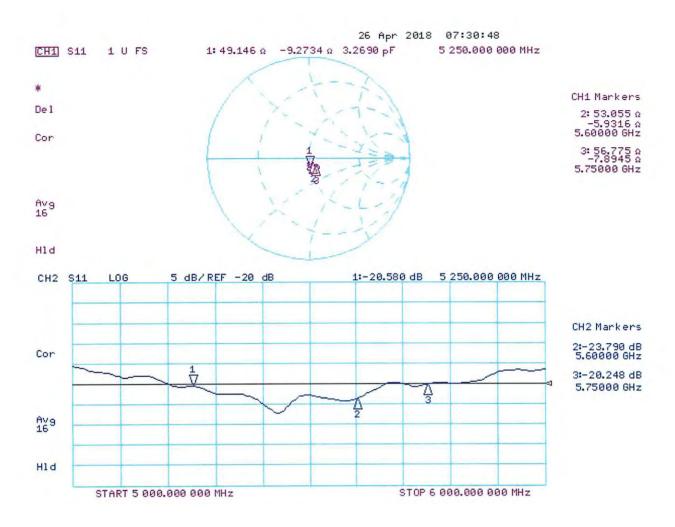
SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.28 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 26.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1031

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

Medium parameters used: f = 5250 MHz; $\sigma = 5.49$ S/m; $\varepsilon_r = 47.1$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5600 MHz; $\sigma = 5.98$ S/m; $\varepsilon_r = 46.5$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5750 MHz; $\sigma = 6.18$ S/m; $\varepsilon_r = 46.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.26, 5.26, 5.26); Calibrated: 30.12.2017, ConvF(4.65, 4.65, 4.65); Calibrated: 30.12.2017, ConvF(4.57, 4.57, 4.57); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601 (5GHz); Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

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

Reference Value = 68.45 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 7.68 W/kg; SAR(10 g) = 2.14 W/kg

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

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

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

Reference Value = 68.43 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 34.3 W/kg

SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.27 W/kg

Maximum value of SAR (measured) = 20.2 W/kg

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

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

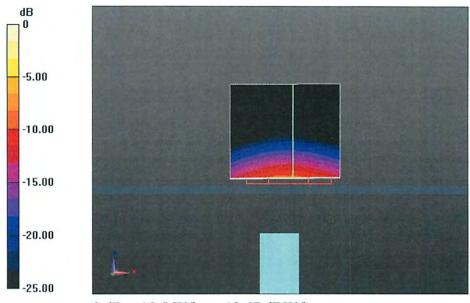
Reference Value = 66.37 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 32.7 W/kg

SAR(1 g) = 7.69 W/kg; SAR(10 g) = 2.13 W/kg

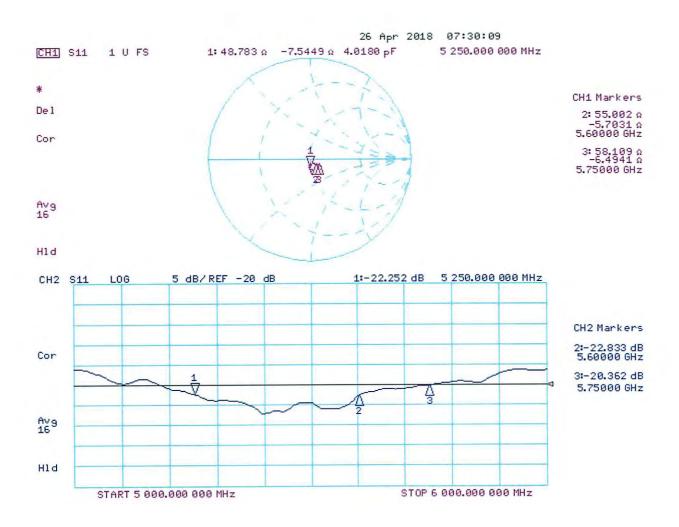
Maximum value of SAR (measured) = 19.3 W/kg

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0 dB = 18.5 W/kg = 12.67 dBW/kg

Impedance Measurement Plot for Body TSL



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





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Client Celltech

Certificate No: D2450V2-825 Apr18

Accreditation No.: SCS 0108

CALIBRATION CERTIFICATE

Object D2450V2 - SN:825

Calibration procedure(s) QA CAL-05.v10

Calibration procedure for dipole validation kits above 700 MHz

Calibration date: April 24, 2018

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-18 (No. 217-02682)	Apr-19
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-18 (No. 217-02683)	Apr-19
Reference Probe EX3DV4	SN: 7349	30-Dec-17 (No. EX3-7349_Dec17)	Dec-18
DAE4	SN: 601	26-Oct-17 (No. DAE4-601_Oct17)	Oct-18
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18
	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	Qe 192
Annual and hou	Katia Bakavia	Technical Manager	10 m
Approved by:	Katja Pokovic	rechnical Manager	John US

Issued: April 25, 2018

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

Certificate No: D2450V2-825_Apr18

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Calibration Laboratory of

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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

Glossary:

TSL tissue simulating liquid

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

Calibration is Performed According to the Following Standards:

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

b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

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

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

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Measurement Conditions

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

DASY Version	DASY5	V52.10.0	
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	38.3 ± 6 %	1.86 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	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.3 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity	
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m	
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.5 ± 6 %	2.01 mho/m ± 6 %	
Body TSL temperature change during test	< 0.5 °C			

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.8 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.4 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.97 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.7 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-825_Apr18

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.5 Ω + 6.8 jΩ		
Return Loss	- 22.7 dB		

Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.9 Ω + 8.6 jΩ
Return Loss	- 21.2 dB

General Antenna Parameters and Design

Floatrical Dalay (one direction)	
Electrical Delay (one direction)	1.158 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
Manufactured on	December 11, 2008

Certificate No: D2450V2-825_Apr18 Page 4 of 8

DASY5 Validation Report for Head TSL

Date: 24.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:825

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.86$ S/m; $\varepsilon_r = 38.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

• Probe: EX3DV4 - SN7349; ConvF(7.88, 7.88, 7.88); Calibrated: 30.12.2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 26.10.2017

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

DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

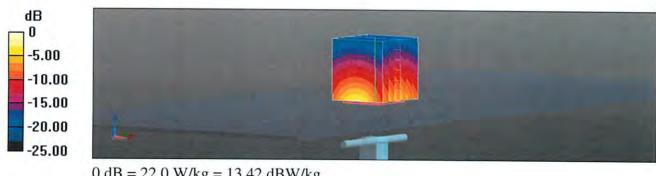
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 116.5 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 26.6 W/kg

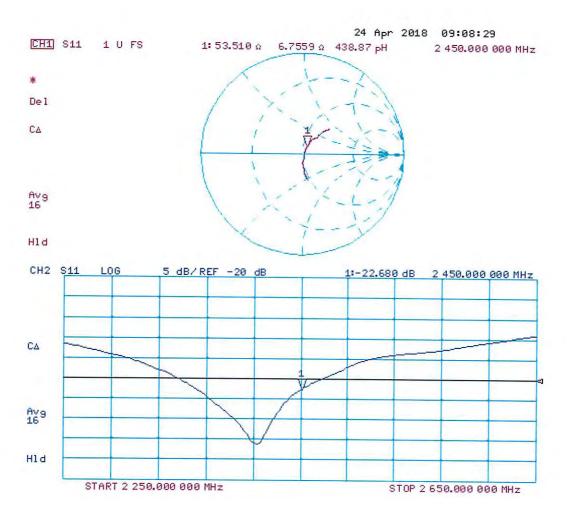
SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.16 W/kg

Maximum value of SAR (measured) = 22.0 W/kg



0 dB = 22.0 W/kg = 13.42 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 24.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:825

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

Medium parameters used: f = 2450 MHz; $\sigma = 2.01$ S/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(8.01, 8.01, 8.01); Calibrated: 30.12.2017;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 26.10.2017

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

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

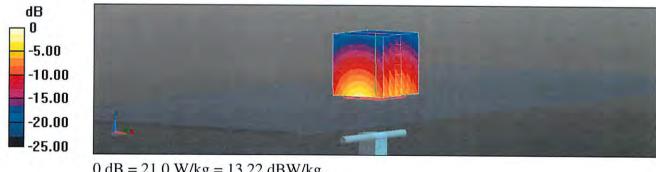
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.0 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 25.3 W/kg

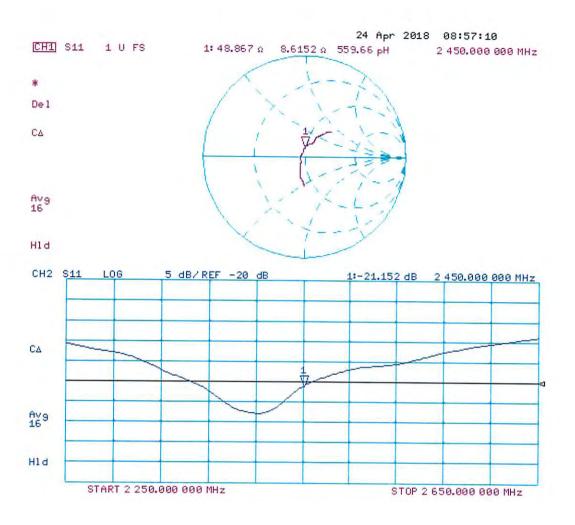
SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.97 W/kg

Maximum value of SAR (measured) = 21.0 W/kg



0 dB = 21.0 W/kg = 13.22 dBW/kg

Impedance Measurement Plot for Body TSL





<u>Date:</u> November 26, 2016

Revision No.
Rev. 1.0



2450 MHz Dipole Extended Calibration

Dipole: D2450V2
Serial Number: 825
Last Calibrated: Apr. 24, 2018

Antenna Parameters with Head TSL						
	Impedance Real (ohms)	Deviation from cal(ohms)	Impedance Imaginary (ohms)	Deviation from cal (Ohms)	Return Loss (dB)	Deviation from Cal (%)
Last Calibration April 2018	53.51	-	+6.76	-	-22.68	-
Extended Cal May 08, 2019	51.76	-1.75	+8.32	+1.56	-21.10	+7.00%

Per KDB 865664 D01 3.2.2 §2 C, D

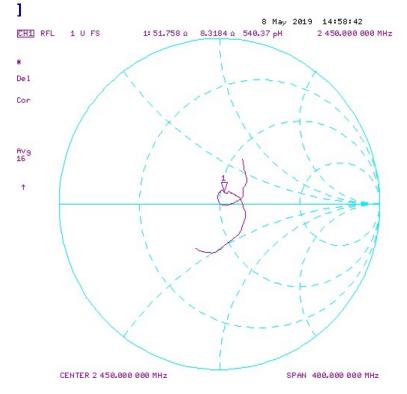
Antenna Parameters with Body TSL						
	Impedance Real (ohms)	Deviation from cal(ohms)	Impedance Imaginary (ohms)	Deviation from cal(ohms)	Return Loss (dB)	Deviation from Cal (%)
Last Calibration	48.87	-	+8.62	-	-21.15	-
Extended Cal May 14, 2019	50.78	+1.91	+7.11	-1.51	-23.03	-8.00%

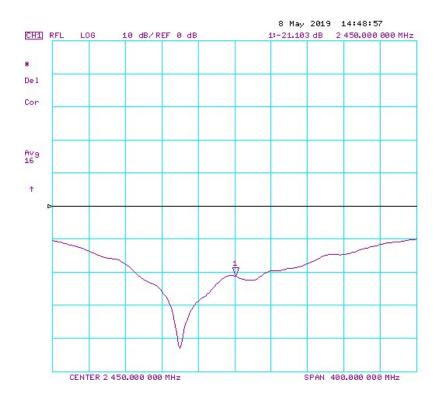
Per KDB 865664 D01 3.2.2 §2 C, D



2450 MHz Dipole Extended Calibration

Antenna VSWR with Head TSL

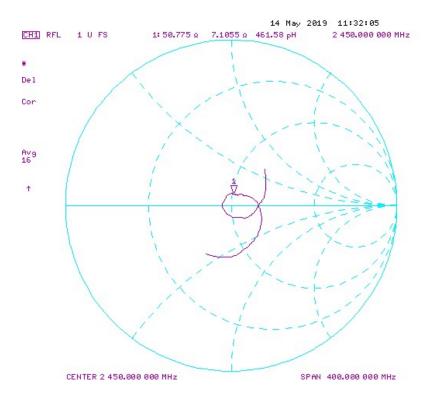


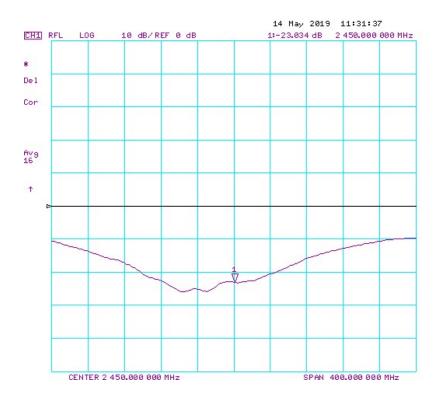




2450 MHz Dipole Extended Calibration

Antenna VSWR with Body TSL







Test Report S/N: Test Report Issue Date: 45461575 R1.0 6 February 2020

APPENDIX G - PHANTOM

Schmid & Partner Engineering AG

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Certificate of conformity / First Article Inspection

Item	SAM Twin Phantom V4.0		
Type No	QD 000 P40 BA		
Series No	TP-1002 and higher		
Manufacturer / Origin	Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland		

Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

Test	Requirement	Details	Units tested
Shape	Compliance with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample TP 104-5
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards	Liquid type HSL 1800 and others according to the standard.	Pre-series, First article

Standards

- [1] CENELEC EN 50361
- [2] IEEE P1528-200x draft 6.5
- [3] IEC PT 62209 draft 0.9
- (*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date

18.11.2001

Signature / Stamp

Schmid & Partner Engineering AG

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Fin Brubolt

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Certificate of Conformity / First Article Inspection

Item	Oval Flat Phantom ELI 5.0
Type No	QD OVA 002 A
Series No	1108 and higher
Manufacturer	Untersee Composites
	Knebelstrasse 8, CH-8268 Mannenbach, Switzerland

Tests

Complete tests were made on the prototype units QD OVA 001 A, pre-series units QD OVA 001 B as well as on some series units QD OVA 001 B. Some tests are made on all series units QD OVA 002 A.

Test	Requirement	Details	Units tested
Shape	Internal dimensions, depth and sagging are compatible with standards	Bottom elliptical 600 x 400 mm, Depth 190 mm, dimension compliant with [1] for f > 375 MHz	Prototypes
Material thickness	Bottom: 2.0mm +/- 0.2mm	dimension compliant with [3] for f > 800 MHz	all
Material parameters	rel. permittivity 2 – 5, loss tangent ≤ 0.05, at f ≤ 6 GHz	rel. permittivity 3.5 +/- 0.5 loss tangent ≤ 0.05	Material samples
Material resistivity	Compatibility with tissue simulating liquids .	Compatible with SPEAG liquids. **	Phantoms, Material sample
Sagging	Sagging of the flat section in tolerance when filled with tissue simulating liquid.	within tolerance for filling height up to 155 mm	Prototypes, samples

Note: Compatibility restrictions apply certain liquid components mentioned in the standard, containing e.g. DGBE, DGMHE or Triton X-100. Observe technical note on material compatibility.

Standards

- [1] OET Bulletin 65, Supplement C, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 01-01
- [2] IEEE 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques, December 2003
- [3] IEC 62209–1 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models, instrumentation, and procedures Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", 2005-02-18
- [4] IEC 62209–2 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", 2010-03-30

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of **body-worn** SAR measurements and system performance checks as specified in [1-4] and further standards.

Date

25.7.2011

Signature / Stamp

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