REPORT NO: UL-SAR-RP12185761JD18A V1.0 Issue Date: 15 October 2018

12.4. Calibration Certificate for E-Field Probes

This sub-section contains Cal Certificates for E-Field Probes, and is not included in the total number of pages for this report.

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A2545

Calibration Laboratory of

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





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Accredited by the Swiss Accreditation Service (SAS)

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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

UL RFI UK

Certificate No: EX3-3995_Apr18

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3995

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6

Calibration procedure for dosimetric E-field probes

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: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-17)	In house check: Oct-18

Name
Calibrated by: Michael Weber

Function

Laboratory Technician

Signature

Approved by:

Katja Pokovic

Technical Manager

Issued: April 25, 2018

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

Certificate No: EX3-3995_Apr18

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Calibration Laboratory of

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





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Glossary:

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

ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

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

Polarization ϕ ϕ rotation around probe axis

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

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Probe EX3DV4

SN:3995

Manufactured: January 21, 2014

Calibrated:

April 24, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.49	0.36	0.53	± 10.1 %
DCP (mV) ^B	102.7	103.6	102.5	1 10,110

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	144.3	±3.3 %
	1.8	Υ	0.0	0.0	1.0		159.3	
		Z	0.0	0.0	1.0		142.2	

Note: For details on UID parameters see Appendix.

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	48.27	356.2	35.29	23.55	0.884	5.100	1.161	0.396	1.009
Y	32.67	242.9	35.38	9.987	1.129	5.007	0.597	0.371	1.006
Z	40.47	294.9	34.25	18.59	0.568	5.095	2.000	0.156	1.008

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%.

Numerical linearization parameter: uncertainty not required.

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

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

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)
750	41.9	0.89	10.48	10.48	10.48	0.52	0.80	± 12.0 %
835	41.5	0.90	10.22	10.22	10.22	0.46	0.80	± 12.0 %
900	41.5	0.97	9.95	9.95	9.95	0.53	0.80	± 12.0 %
1750	40.1	1.37	8.74	8.74	8.74	0.37	0.80	± 12.0 %
1900	40.0	1.40	8.51	8.51	8.51	0.49	0.85	± 12.0 %
2100	39.8	1.49	8.67	8.67	8.67	0.40	0.80	± 12.0 %
2300	39.5	1.67	8.07	8.07	8.07	0.37	0.85	± 12.0 %
2450	39.2	1.80	7.74	7.74	7.74	0.36	0.85	± 12.0 %
2600	39.0	1.96	7.41	7.41	7.41	0.41	0.87	± 12.0 %
3500	37.9	2.91	7.18	7.18	7.18	0.23	1.20	± 13.1 %
5250	35.9	4.71	5.33	5.33	5.33	0.40	1.80	± 13.1 %
5600	35.5	5.07	5.04	5.04	5.04	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.26	5.26	5.26	0.40	1.80	± 13.1 %

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

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

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)
750	55.5	0.96	10.26	10.26	10.26	0.46	0.80	± 12.0 %
835	55.2	0.97	10.04	10.04	10.04	0.50	0.80	± 12.0 %
900	55.0	1.05	9.96	9.96	9.96	0.45	0.84	± 12.0 %
1750	53.4	1.49	8.37	8.37	8.37	0.42	0.84	± 12.0 %
1900	53.3	1.52	8.10	8.10	8.10	0.41	0.80	± 12.0 %
2100	53.2	1.62	8.51	8.51	8.51	0.37	0.85	± 12.0 %
2300	52.9	1.81	7.65	7.65	7.65	0.46	0.84	± 12.0 %
2450	52.7	1.95	7.69	7.69	7.69	0.32	0.89	± 12.0 %
2600	52.5	2.16	7.52	7.52	7.52	0.36	0.84	± 12.0 %
3500	51.3	3.31	6.87	6.87	6.87	0.25	1.25	± 13.1 %
5250	48.9	5.36	4.78	4.78	4.78	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.36	4.36	4.36	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.57	4.57	4.57	0.50	1.90	± 13.1 %

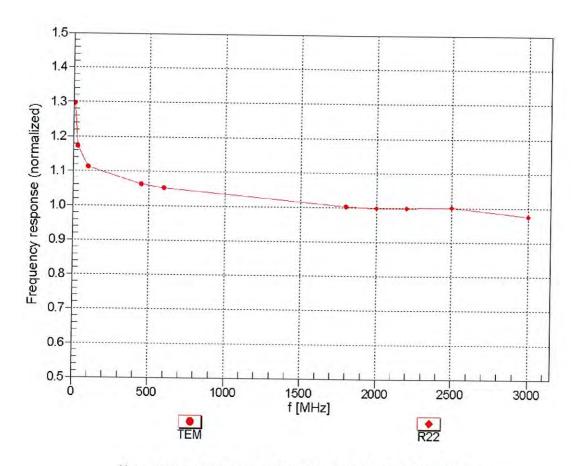
^c Frequency validity above 300 MHz of \pm 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz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

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the ConvF uncertainty for indicated target tissue parameters.

Galpha/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)

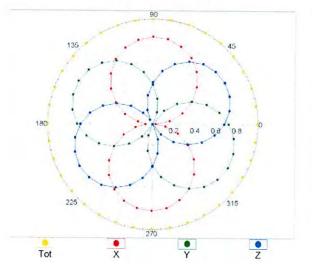


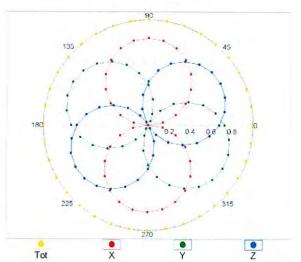
Uncertainty of Frequency Response of E-field: \pm 6.3% (k=2)

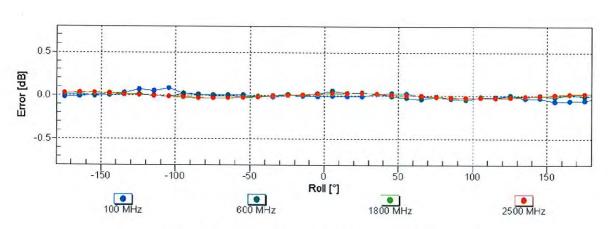
Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



f=1800 MHz,R22

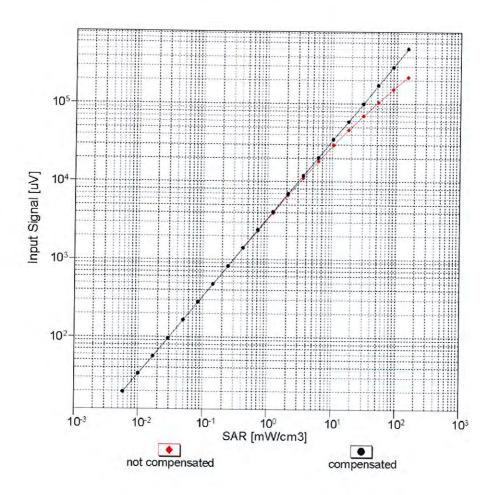


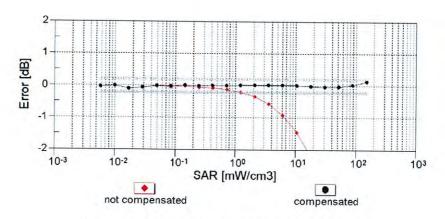




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

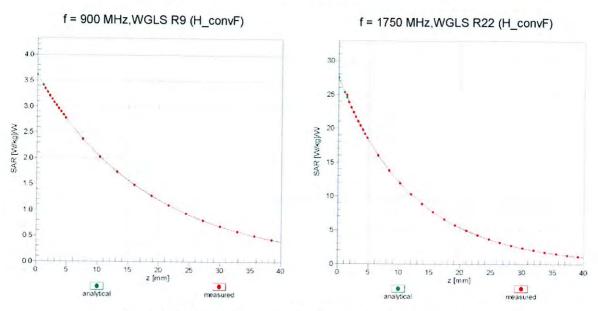
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)





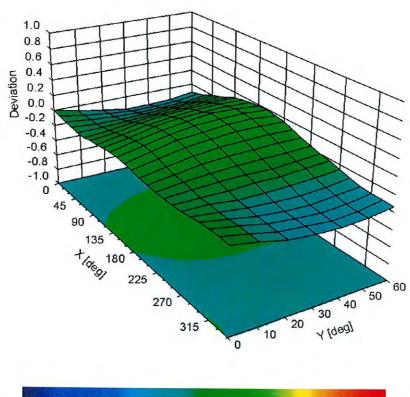
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , ϑ), f = 900 MHz



Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-44.6
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

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0			dB	dBõV		dB	mV	Unc ^E (k=2)
	CW	X	0.00	0.00	1.00	0.00	144.3	± 3.3 %
7.27		Y	0.00	0.00	1.00		159.3	
		Z	0.00	0.00	1.00		142.2	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	95.22	109.63	25.46	10.00	20.0	± 9.6 %
		Y	2.30	64.12	9.40		20.0	
		Z	39.91	98.51	22.05		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	2.52	85.20	24.22	0.00	150.0	± 9.6 %
		Y	0.91	68.50	15.10		150.0	
	THE RESERVE AREA OF A STATE OF THE PARTY OF	Z	1.22	71.24	17.53	1	150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.41	68.39	18.74	0.41	150.0	± 9.6 %
		Y	1.06	64.20	15.17		150.0	
		Z	1.26	65.62	16.51		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps)	X	5.02	67.52	17.85	1.46	150.0	± 9.6 %
		Y	4.56	66.85	16.91		150.0	
	I Company to the second	Z	4.87	67.25	17.43		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	Х	100.00	119.81	30.90	9.39	50.0	± 9.6 %
		Y	8.46	79.91	17.33		50.0	
		Z	100.00	119.74	30.35		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	119.54	30.82	9.57	50.0	± 9.6 %
		Υ	6.68	76.76	16.22		50.0	
		Z	100.00	119.23	30.16		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	119.02	29.58	6.56	60.0	± 9.6 %
		Y	11.80	84.16	17.13		60.0	
		Z	100.00	119.42	29.26		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	Х	13.64	105.97	42.47	12.57	50.0	± 9.6 %
		Υ	3.84	65.99	22.46		50.0	
		Z	8.01	90.96	36.82		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	Х	35.11	125.23	43.95	9.56	60.0	± 9.6 %
		Υ	7.90	86.97	29.75		60.0	
		Z	16.37	107.56	38.73		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	Х	100.00	121.03	29.72	4.80	80.0	± 9.6 %
		Υ	100.00	103.04	20.57		80.0	
		Z	100.00	121.62	29.49		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	Х	100.00	125.43	30.92	3.55	100.0	± 9.6 %
		Υ	100.00	100.74	18.89		100.0	
1000-		Z	100.00	125.73	30.57		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	Х	14.50	102.31	35.48	7.80	80.0	± 9.6 %
		Y	5.29	79.06	25.68		80.0	
10030-	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Z X	8.49 100.00	90.68 118.43	31.43 28.85	5.30	80.0 70.0	± 9.6 %
CAA		Y	4.41	74.51	13.26		70.0	
		Z	100.00		28.32		70.0	
10031-	IEEE 802.15.1 Bluetooth (GFSK, DH3)			118.35		1.88	100.0	± 9.6 %
CAA	IEEE 002.13.1 Diuetooth (GFSK, DH3)	X	100.00	137.91	34.59	1.00		I 9.0 %
4441		Y	0.32	60.00 132.02	4.68 31.65		100.0 100.0	

10032- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	168.44	45.61	1.17	100.0	± 9.6 %
		Y	0.22	60.00	3.28		100.0	
		Z	100.00	149.49	37.51		100.0	
10033- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	129.68	35.61	5.30	70.0	± 9.6 %
		Y	4.45	75.97	16.75		70.0	
		Z	100.00	128.40	34.56		70.0	
10034- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	100.00	130.65	34.30	1.88	100.0	± 9.6 %
		Y	1.57	67.49	11.58		100.0	
		Z	100.00	125.53	31.57	X	100.0	
10035- CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Х	100.00	131.93	34.37	1.17	100.0	± 9.6 %
		Y	1.14	65.62	10.43		100.0	la l
		Z	24.24	106.54	26.73		100.0	
10036- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	130.06	35.79	5.30	70.0	± 9.6 %
		Y	5.18	78.12	17.59		70.0	
		Z	100.00	128.86	34.77		70.0	
10037- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Х	100.00	130.67	34.27	1.88	100.0	± 9.6 %
		Υ	1.46	66.85	11.29		100.0	
		Z	100.00	125.55	31.54	1-1-	100.0	
10038- CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Х	100.00	132.82	34.76	1.17	100.0	± 9.6 %
		Υ	1.16	65.98	10.72		100.0	
		Z	25.86	108.08	27.29		100.0	
10039- CAB	CDMA2000 (1xRTT, RC1)	X	100.00	132.84	34.21	0.00	150.0	± 9.6 %
		Y	0.77	63.99	9.29		150.0	
		Z	3.79	82.91	19.48		150.0	1 2 2 1
10042- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4- DQPSK, Halfrate)	X	100.00	115.89	28.31	7.78	50.0	± 9.6 %
		Υ	3.93	71.53	12.94		50.0	
		Z	100.00	115.68	27.74		50.0	
10044- CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	Х	0.00	123.15	8.76	0.00	150.0	± 9.6 %
		Υ	0.31	135.07	15.92		150.0	
	Programme and the second secon	Z	0.00	100.96	0.72		150.0	
10048- CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	121.32	32.89	13.80	25.0	± 9.6 %
		Υ	5.60	70.79	15.40		25.0	
-		Z	100.00	119.96	31.70		25.0	
10049- CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	119.14	30.91	10.79	40.0	± 9.6 %
		Υ	5.57	73.28	15.15		40.0	
		Z	100.00	118.11	29.91		40.0	-
10056- CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	126.07	35.16	9.03	50.0	± 9.6 %
		Υ	7.02	77.86	18.23		50.0	
400==		Z	100.00	125.69	34.49		50.0	
10058- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	9.10	91.66	30.96	6.55	100.0	± 9.6 %
		Υ	4.18	75.08	23.38		100.0	
10050	IEEE OOD AN ANDERS	Z	6.05	83.12	27.64		100.0	Y
10059- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.64	71.64	20.33	0.61	110.0	± 9.6 %
		Υ	1.10	65.39	15.73		110.0	
10000	IEEE 000 / W. Commission	Z	1.37	67.54	17.55		110.0	
10060- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	147.47	40.39	1.30	110.0	± 9.6 %
		Y	84.53	128.04	31.27		110.0	
		Z						

10061- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	100.00	145.63	41.61	2.04	110.0	± 9.6 %
-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Υ	3.02	81.14	21.45		110.0	
		Z	14.12	108.99	32.01		110.0	
10062- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	Х	4.81	67.49	17.25	0.49	100.0	± 9.6 %
	(Wibba)	Y	4.35	66.80	16.37		100.0	
		Z	4.64	67.16	16.79		100.0	
10063- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.84	67.62	17.38	0.72	100.0	± 9.6 %
CAC	(Wibpa)	Y	4.37	66.91	16.46		100.0	
		Z	4.67	67.29	16.91		100.0	
10064- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	Х	5.12	67.85	17.58	0.86	100.0	± 9.6 %
0,10	111111111111111111111111111111111111111	Y	4.60	67.08	16.63		100.0	
	Property of the Community of the Communi	Z	4.93	67.50	17.11		100.0	
10065- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	Х	5.01	67.83	17.74	1.21	100.0	± 9.6 %
0/10	maps)	Y	4.48	66.93	16.69		100.0	
		Z	4.82	67.44	17.26		100.0	
10066- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.04	67.89	17.93	1.46	100.0	± 9.6 %
-		Y	4.49	66.93	16.83		100.0	
		Z	4.84	67.48	17.44		100.0	
10067- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	Х	5.33	68.00	18.34	2.04	100.0	± 9.6 %
		Y	4.78	67.21	17.29		100.0	
		Z	5.15	67.73	17.93		100.0	. 0 0 0/
10068- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.40	68.13	18.60	2.55	100.0	± 9.6 %
0, 10		Y	4.83	67.15	17.45		100.0	
		Z	5.19	67.73	18.14		100.0	0.00/
10069- CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.48	68.08	18.77	2.67	100.0	± 9.6 %
0/10	III.Dec/	Y	4.89	67.17	17.63		100.0	
		Z	5.27	67.74	18.33		100.0	
10071- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	Х	5.13	67.64	18.17	1.99	100.0	± 9.6 %
OAB	(Beee, et 2 iii, e iii)	Y	4.67	66.94	17.19	1	100.0	
		Z	4.98	67.37	17.76		100.0	
10072- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	Х	5.15	68.12	18.49	2.30	100.0	± 9.6 %
O/ID	(Bood of Bill, 12 maps)	Y	4.63	67.20	17.37		100.0	
		Z	4.97	67.76	18.03		100.0	
10073- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.24	68.38	18.87	2.83	100.0	± 9.6 %
		Υ	4.72	67.44	17.71		100.0	
		Z	5.06	68.01	18.42	2.00	100.0	1000
10074- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.24	68.32	19.05	3.30	100.0	± 9.6 %
		Y	4.75	67.45	17.87		100.0	-
		Z	5.06	67.97	18.61		100.0	
10075- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	Х	5.31	68.57	19.44	3.82	90.0	± 9.6 %
		Y	4.79	67.49	18.11		90.0	-
		Z	5.11	68.10	18.94	1	90.0	1000
10076- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.32	68.32	19.54	4.15	90.0	± 9.6 %
J, 10		Y	4.85	67.41	18.29		90.0	1
		Z	5.14	67.94	19.09		90.0	
10077- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.34	68.39	19.64	4.30	90.0	± 9.6 %
OND	(DOGGI DIII, C. IIIDDG)	Y	4.89	67.53	18.41		90.0	
			5.17	68.03	19.20		90.0	- 1

10081- CAB	CDMA2000 (1xRTT, RC3)	X	53.65	128.43	33.06	0.00	150.0	± 9.6 %
		Y	0.36	60.22	6.42		150.0	
14		Z	1.16	71.39	14.87		150.0	
10082- CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	1.17	60.98	6.16	4.77	80.0	± 9.6 %
		Y	0.75	60.00	4.24		80.0	
A 2255	ALLEY MALE AND A CONTRACT OF THE SECOND SECO	Z	0.88	60.00	5.21		80.0	
10090- DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	119.06	29.62	6.56	60.0	± 9.6 %
-		Y	12.02	84.36	17.22		60.0	
10097-	LIMTO EDD (LIODDA)	Z	100.00	119.44	29.29		60.0	
CAB	UMTS-FDD (HSDPA)	X	2.52	74.39	19.62	0.00	150.0	± 9.6 %
		Y	1.76	69.27	15.65		150.0	
10098-	UMTS-FDD (HSUPA, Subtest 2)	Z	2.02	70.25	17.00		150.0	
CAB	OWTS-FDD (HSOPA, Subtest 2)	X	2.48	74.51	19.68	0.00	150.0	± 9.6 %
		Y	1.72	69.21	15.63		150.0	
10099-	EDGE-EDD (TDMA ODG)(TN O 4)	Z	1.98	70.23	16.99		150.0	
DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	35.36	125.36	43.97	9.56	60.0	± 9.6 %
		Y	7.94	87.03	29.77		60.0	
10100-	LTE-FDD (SC-FDMA, 100% RB, 20	Z	16.55	107.78	38.80		60.0	
CAD	MHz, QPSK)	X	4.07	75.64	19.60	0.00	150.0	± 9.6 %
		Y	2.89	70.56	16.77		150.0	
10101-	LTE EDD (SC EDMA 4000) DD 00	Z	3.30	71.93	17.64		150.0	
CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	3.54	69.70	17.46	0.00	150.0	± 9.6 %
		Y	2.98	67.51	15.84		150.0	
10100	LTC CDD (00 CD)	Z	3.26	68.24	16.41		150.0	
10102- CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	Х	3.63	69.49	17.45	0.00	150.0	± 9.6 %
		Υ	3.08	67.55	15.97		150.0	
10100	LTE TRR (88 FRAME	Z	3.36	68.18	16.47		150.0	
10103- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	Х	10.11	83.80	23.97	3.98	65.0	± 9.6 %
		Υ	5.63	74.46	19.60		65.0	
10101		Z	8.47	81.35	22.96		65.0	
10104- CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	Х	8.37	78.87	22.91	3.98	65.0	± 9.6 %
		Y	5.67	72.55	19.52		65.0	
10105-	LTE TOD (CC EDMA 4000) DD 00	Z	7.23	76.71	21.87		65.0	
CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	7.59	76.85	22.36	3.98	65.0	± 9.6 %
		Υ	5.29	71.10	19.18		65.0	
10108-	LTE EDD (SC EDMA 4000) DD 40	Z	7.07	76.17	21.94		65.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.54	74.89	19.54	0.00	150.0	± 9.6 %
		Y	2.47	70.00	16.63		150.0	
10109-	LTE EDD (CC EDMA 1000) DD 15	Z	2.86	71.20	17.50		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	3.23	69.95	17.61	0.00	150.0	± 9.6 %
		Y	2.62	67.60	15.71		150.0	
10110-	LTE EDD (SC EDMA 4000) DD TO	Z	2.92	68.29	16.38		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	2.97	74.72	19.61	0.00	150.0	± 9.6 %
		Y	1.95	69.29	16.03	1	150.0	
10111-	LTE EDD (SC EDMA 1000) DD 51111	Z	2.33	70.59	17.22		150.0	
CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	3.13	72.20	18.62	0.00	150.0	± 9.6 %
		Υ	2.42	69.32	16.04		150.0	
		Z	2.72	69.89	16.96		150.0	

10112- CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	Х	3.33	69.73	17.55	0.00	150.0	± 9.6 %
		Y	2.75	67.70	15.81		150.0	
		Z	3.04	68.27	16.42		150.0	
10113- CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	3.27	72.03	18.58	0.00	150.0	± 9.6 %
		Y	2.57	69.53	16.21		150.0	
		Z	2.87	69.98	17.05		150.0	
10114- CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.23	67.88	17.05	0.00	150.0	± 9.6 %
		Y	4.81	67.16	16.39		150.0	
X 1. 7		Z	5.06	67.46	16.60		150.0	
10115- CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	Х	5.51	67.94	17.07	0.00	150.0	± 9.6 %
	The Arms Arms Arms Arms Arms Arms Arms Arms	Υ	5.04	67.19	16.40		150.0	
		Z	5.31	67.49	16.61		150.0	
10116- CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.33	68.08	17.07	0.00	150.0	± 9.6 %
		Y	4.88	67.32	16.39		150.0	
		Z	5.14	67.64	16.62		150.0	
10117- CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.19	67.73	16.99	0.00	150.0	± 9.6 %
		Y	4.79	67.07	16.36		150.0	
		Z	5.04	67.36	16.57		150.0	
10118- CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.60	68.16	17.19	0.00	150.0	± 9.6 %
		Υ	5.11	67.39	16.50		150.0	
		Z	5.38	67.65	16.70		150.0	
10119- CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.31	68.02	17.05	0.00	150.0	± 9.6 %
		Υ	4.89	67.34	16.41		150.0	
		Z	5.13	67.60	16.61	Maria 1	150.0	
10140- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	Х	3.67	69.49	17.36	0.00	150.0	± 9.6 %
		Υ	3.10	67.56	15.86		150.0	
		Z	3.39	68.20	16.39		150.0	
10141- CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	3.78	69.47	17.46	0.00	150.0	± 9.6 %
		Y	3.23	67.78	16.09		150.0	
		Z	3.51	68.30	16.55		150.0	
10142- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	Х	3.01	76.73	20.17	0.00	150.0	± 9.6 %
		Υ	1.70	69.08	15.06		150.0	
		Z	2.17	71.22	17.06		150.0	11 72 7 21
10143- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	3.44	75.37	19.37	0.00	150.0	± 9.6 %
		Υ	2.16	69.21	14.68		150.0	
		Z	2.71	71.47	16.88		150.0	
10144- CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	2.80	70.97	16.89	0.00	150.0	± 9.6 %
		Υ	1.73	65.33	12.19		150.0	
101:-	175 500 500 500	Z	2.28	67.93	14.67		150.0	
10145- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	3.84	81.95	19.61	0.00	150.0	± 9.6 %
		Υ	0.57	60.00	6.10		150.0	
10115	1 == === /62 === /	Z	1.21	66.08	11.77		150.0	
10146- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	16.65	93.86	22.22	0.00	150.0	± 9.6 %
		Υ	0.85	60.00	5.74		150.0	
100		Z	2.05	67.10	11.28		150.0	
10147- CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	100.00	117.23	28.30	0.00	150.0	± 9.6 %
		Υ	0.86	60.00	5.80		150.0	
		Z	2.81	70.56	12.89		150.0	

10149- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.24	70.03	17.66	0.00	150.0	± 9.6 %
11.7.3		Y	2.64	67.69	15.77		150.0	
		Z	2.93	68.37	16.44		150.0	
10150- CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.34	69.80	17.60	0.00	150.0	± 9.6 %
		Y	2.76	67.78	15.86		150.0	
		Z	3.05	68.34	16.47		150.0	
10151- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	12.13	88.77	25.89	3.98	65.0	± 9.6 %
		Y	6.06	77.37	20.72		65.0	
		Z	9.54	85.21	24.49		65.0	
10152- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	8.17	79.68	22.97	3.98	65.0	± 9.6 %
		Y	5.16	72.33	18.90		65.0	
		Z	6.89	77.17	21.73		65.0	
10153- CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	Х	8.64	80.69	23.74	3.98	65.0	± 9.6 %
		Y	5.62	73.74	19.92		65.0	
		Z	7.37	78.34	22.57		65.0	
10154- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	3.09	75.50	20.01	0.00	150.0	± 9.6 %
		Υ	2.01	69.83	16.35		150.0	
		Z	2.39	71.09	17.51		150.0	
10155- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	Х	3.14	72.22	18.64	0.00	150.0	± 9.6 %
		Y	2.43	69.38	16.09		150.0	
		Z	2.73	69.92	16.98		150.0	
10156- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	3.22	79.25	20.96	0.00	150.0	± 9.6 %
		Y	1.47	68.34	14.10		150.0	
		Z	2.06	71.79	16.99		150.0	
10157- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	2.97	73.71	17.90	0.00	150.0	± 9.6 %
		Y	1.49	64.99	11.47		150.0	
		Z	2.19	69.01	14.88		150.0	
10158- CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	3.28	72.13	18.64	0.00	150.0	± 9.6 %
		Y	2.59	69.66	16.29		150.0	
Season -		Z	2.88	70.07	17.11		150.0	
10159- CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	3.19	74.53	18.30	0.00	150.0	± 9.6 %
		Y	1.55	65.27	11.65		150.0	
		Z	2.32	69.59	15.20		150.0	
10160- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	Х	3.28	72.60	18.74	0.00	150.0	± 9.6 %
		Y	2.51	69.28	16.38		150.0	
		Z	2.82	70.00	17.10	-1.7	150.0	
10161- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	Х	3.25	69.89	17.61	0.00	150.0	± 9.6 %
		Υ	2.65	67.77	15.72		150.0	
		Z	2.95	68.36	16.41		150.0	
10162- CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.36	69.95	17.66	0.00	150.0	± 9.6 %
		Υ	2.77	68.04	15.89		150.0	
		Z	3.07	68.54	16.53		150.0	
10166- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	4.06	72.59	21.10	3.01	150.0	± 9.6 %
		Υ	3.14	69.64	19.18		150.0	
		Z	3.76	71.70	20.34		150.0	
10167- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	Х	5.59	77.50	22.24	3.01	150.0	± 9.6 %
		Υ	3.83	72.79	19.61		150.0	
		Z	5.21	76.95				

10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.53	80.93	23.98	3.01	150.0	± 9.6 %
		Y	4.59	76.73	21.76		150.0	
		Z	6.22	80.76	23.52		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	3.62	73.51	21.62	3.01	150.0	± 9.6 %
CAD	Q: O(y)	Y	2.62	68.32	18.54		150.0	
		Z	3.29	72.02	20.54		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.63	85.06	25.84	3.01	150.0	± 9.6 %
CAD	10-97111)	Υ	3.73	75.41	21.45		150.0	
		Z	6.17	84.12	25.03		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.81	77.94	22.07	3.01	150.0	± 9.6 %
		Υ	2.85	69.78	17.83		150.0	
		Z	4.35	76.60	21.04		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	100.00	142.80	43.85	6.02	65.0	± 9.6 %
		Υ	4.82	81.47	24.36		65.0	
		Z	51.21	130.96	40.98		65.0	
10173- CAD		X	100.00	132.49	38.56	6.02	65.0	± 9.6 %
	102 - 22	Υ	8.56	88.37	24.76		65.0	
		Z	100.00	134.28	38.84		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	100.00	130.12	37.31	6.02	65.0	± 9.6 %
		Υ	4.76	78.33	20.77		65.0	
		Z	100.00	131.93	37.58		65.0	. 0.00/
10175- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.56	73.07	21.31	3.01	150.0	± 9.6 %
		Υ	2.58	67.94	18.24		150.0	
		Z	3.24	71.61	20.25		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.64	85.10	25.86	3.01	150.0	± 9.6 %
		Y	3.74	75.44	21.47		150.0	
		Z	6.19	84.16	25.05		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.60	73.29	21.43	3.01	150.0	± 9.6 %
		Υ	2.60	68.09	18.33		150.0	
		Z	3.27	71.79	20.35		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	6.52	84.69	25.68	3.01	150.0	± 9.6 %
		Υ	3.70	75.21	21.35		150.0	
		Z	6.09	83.81	24.90		150.0	. 0 0 0/
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	5.64	81.36	23.83	3.01	150.0	± 9.6 %
		Υ	3.22	72.30	19.43		150.0	
		Z	5.15	80.12	22.88	0.04	150.0	1060/
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	4.78	77.81	22.00	3.01	150.0	± 9.6 %
		Υ	2.85	69.73	17.79		150.0	
		Z	4.33	76.49	20.98	0.01	150.0	1000
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.59	73.26	21.42	3.01	150.0	± 9.6 %
		Υ	2.59	68.07	18.32		150.0	
		Z	3.26	71.77	20.34	0.04	150.0	1060/
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.50	84.65	25.66	3.01	150.0	± 9.6 %
		Y	3.69	75.18	21.33		150.0	
		Z	6.07	83.77	24.88	001	150.0	1000
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.77	77.77	21.98	3.01	150.0	± 9.6 %
		Y	2.84	69.70	17.78		150.0	
		Z	4.32	76.46	20.97		150.0	

10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.60	73.32	21.45	3.01	150.0	± 9.6 %
		Y	2.60	68.12	18.35		150.0	
		Z	3.28	71.82	20.36		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	6.55	84.77	25.71	3.01	150.0	± 9.6 %
		Y	3.72	75.28	21.38		150.0	
		Z	6.12	83.89	24.93		150.0	
10186- AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	4.80	77.87	22.03	3.01	150.0	± 9.6 %
	4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y	2.86	69.77	17.82		150.0	
		Z	4.35	76.56	21.01		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	3.62	73.38	21.52	3.01	150.0	± 9.6 %
		Y	2.62	68.22	18.45		150.0	
		Z	3.29	71.91	20.45		150.0	
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	6.91	85.96	26.26	3.01	150.0	± 9.6 %
		Y	3.87	76.16	21.86		150.0	-
		Z	6.47	85.08	25.48		150.0	
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	4.98	78.59	22.40	3.01	150.0	± 9.6 %
		Y	2.93	70.25	18.13		150.0	
		Z	4.50	77.26	21.39		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	Х	4.63	67.39	16.84	0.00	150.0	± 9.6 %
		Y	4.22	66.89	16.08		150.0	
		Z	4.47	67.05	16.35		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	Х	4.81	67.71	16.96	0.00	150.0	± 9.6 %
		Υ	4.35	67.10	16.22	,	150.0	
		Z	4.63	67.32	16.47		150.0	
10195- CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.85	67.73	16.96	0.00	150.0	± 9.6 %
		Y	4.38	67.11	16.23		150.0	
		Z	4.66	67.35	16.49		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.64	67.46	16.86	0.00	150.0	± 9.6 %
		Y	4.20	66.87	16.06		150.0	
		Z	4.46	67.08	16.35		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.82	67.73	16.97	0.00	150.0	± 9.6 %
		Y	4.36	67.10	16.22		150.0	
		Z	4.64	67.33	16.48		150.0	
10198- CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	Х	4.85	67.75	16.98	0.00	150.0	± 9.6 %
		Y	4.37	67.10	16.23		150.0	
		Z	4.66	67.35	16.50		150.0	
10219- CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.59	67.51	16.84	0.00	150.0	± 9.6 %
		Υ	4.15	66.93	16.04		150.0	
		Z	4.42	67.12	16.33		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	Х	4.81	67.70	16.95	0.00	150.0	± 9.6 %
		Υ	4.35	67.06	16.21		150.0	
		Z	4.63	67.30	16.47		150.0	
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	Х	4.86	67.66	16.95	0.00	150.0	± 9.6 %
		Υ	4.39	67.05	16.22		150.0	
		Z	4.67	67.28	16.48	L - 17	150.0	
10222- CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.17	67.75	16.99	0.00	150.0	± 9.6 %
	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.17 4.77	67.75 67.07	16.99	0.00	150.0	± 9.6 %

10223- CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.46	67.88	17.06	0.00	150.0	± 9.6 %
		Y	5.01	67.21	16.43		150.0	
		Z	5.29	67.54	16.66		150.0	
10224- CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	Х	5.22	67.88	16.98	0.00	150.0	± 9.6 %
		Y	4.81	67.20	16.34		150.0	
		Z	5.05	67.47	16.54		150.0	
10225- CAB	UMTS-FDD (HSPA+)	X	3.02	68.09	16.81	0.00	150.0	± 9.6 %
		Y	2.50	66.39	14.71		150.0	
		Z	2.80	67.01	15.68		150.0	
10226- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	Х	100.00	132.72	38.71	6.02	65.0	± 9.6 %
		Y	9.34	89.97	25.38		65.0	
		Z	100.00	134.54	39.00		65.0	
10227- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	100.00	130.15	37.37	6.02	65.0	± 9.6 %
		Y	8.49	87.20	23.81		65.0	
		Z	100.00	131.60	37.47		65.0	
10228- CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	Х	100.00	142.81	43.84	6.02	65.0	± 9.6 %
¥*		Y	6.26	86.70	26.34		65.0	
		Z	55.72	133.15	41.64		65.0	
10229- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	100.00	132.47	38.56	6.02	65.0	± 9.6 %
		Υ	8.63	88.49	24.80		65.0	
		Z	100.00	134.26	38.84		65.0	200
10230- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	Х	100.00	129.99	37.25	6.02	65.0	± 9.6 %
		Y	7.84	85.84	23.28		65.0	
		Z	100.00	131.43	37.36		65.0	
10231- CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	100.00	142.62	43.72	6.02	65.0	± 9.6 %
		Υ	5.93	85.57	25.85		65.0	
		Z	48.20	129.90	40.73		65.0	
10232- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	Х	100.00	132.49	38.56	6.02	65.0	± 9.6 %
	1	Υ	8.62	88.48	24.80		65.0	
		Z	100.00	134.28	38.84		65.0	
10233- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	100.00	130.01	37.26	6.02	65.0	± 9.6 %
		Y	7.82	85.81	23.27		65.0	
		Z	100.00	131.46	37.37		65.0	V
10234- CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	100.00	142.27	43.51	6.02	65.0	± 9.6 %
		Y	5.68	84.61	25.38		65.0	
		Z	43.09	127.21	39.89		65.0	1-2-
10235- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	Х	100.00	132.51	38.57	6.02	65.0	± 9.6 %
		Υ	8.63	88.51	24.81		65.0	
	E. STANIA ET A A A A TOTAL	Z	100.00	134.30	38.85		65.0	
10236- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	Х	100.00	129.95	37.24	6.02	65.0	± 9.6 %
		Υ	7.89	85.93	23.31		65.0	
		Z	100.00	131.39	37.34		65.0	
10237- CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	100.00	142.66	43.73	6.02	65.0	± 9.6 %
		Υ	5.93	85.60	25.86		65.0	
	And the second of the second o	Z	48.85	130.23	40.82		65.0	
10238- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	100.00	132.50	38.57	6.02	65.0	± 9.6 %
		2117		March 2012 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20.22		72 2 2 7	
		Y	8.60	88.45	24.79		65.0	

10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	100.00	130.03	37.27	6.02	65.0	± 9.6 %
		Y	7.79	85.78	23.26		65.0	
		Z	100.00	131.49	37.38		65.0	
10240- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	100.00	142.68	43.73	6.02	65.0	± 9.6 %
		Υ	5.92	85.58	25.86		65.0	
		Z	48.67	130.16	40.80		65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	13.44	92.05	30.01	6.98	65.0	± 9.6 %
		Υ	7.57	81.53	24.92		65.0	
5.5		Z	12.21	91.50	29.66		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	13.19	91.60	29.75	6.98	65.0	± 9.6 %
		Υ	6.49	78.53	23.64		65.0	
		Z	11.53	90.28	29.14		65.0	V.
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	8.15	82.63	27.34	6.98	65.0	± 9.6 %
		Y	5.35	75.30	23.22		65.0	
		Z	7.96	83.56	27.61		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	16.00	91.35	24.67	3.98	65.0	± 9.6 %
		Υ	3.31	67.10	12.48		65.0	
		Z	10.45	84.22	21.29		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	14.44	89.39	23.96	3.98	65.0	± 9.6 %
		Y	3.26	66.68	12.23		65.0	
		Z	9.47	82.45	20.60		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	Х	29.63	104.93	28.92	3.98	65.0	± 9.6 %
		Υ	3.05	69.19	13.88		65.0	
		Z	12.77	91.20	24.08		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	9.19	83.56	22.86	3.98	65.0	± 9.6 %
		Υ	3.67	69.06	14.66		65.0	
		Z	6.83	78.92	20.47		65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	8.61	81.94	22.23	3.98	65.0	± 9.6 %
		Y	3.63	68.53	14.41		65.0	
		Z	6.47	77.57	19.91		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	×	31.25	107.62	30.74	3.98	65.0	± 9.6 %
		Υ	4.84	76.09	18.18		65.0	
	The state of the s	Z	16.20	96.54	26.97		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	9.63	84.93	25.01	3.98	65.0	± 9.6 %
		Y	5.28	74.82	19.62		65.0	
		Z	7.74	81.48	23.36		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	8.40	80.97	23.13	3.98	65.0	± 9.6 %
		Υ	4.80	72.03	17.99		65.0	
	7. A. J. 64 . I. T. A. J.	Z	6.90	78.06	21.61		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	18.06	98.29	29.03	3.98	65.0	± 9.6 %
		Υ	6.17	79.75	21.27		65.0	
		Z	12.25	91.97	26.75		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	7.88	78.85	22.63	3.98	65.0	± 9.6 %
		Y	5.09	71.97	18.61		65.0	
		Z	6.73	76.58	21.43		65.0	
	I TE TEE IS A SECOND SE	X	8.33	79.82	23.33	3.98	65.0	± 9.6 %
10254- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	^	0.55	10.02	27/23		4.24	2 0.0 70
		Y	5.48	73.14	19.46		65.0	20.0 70

10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	11.12	87.52	25.69	3.98	65.0	± 9.6 %
		Y	5.81	76.82	20.62		65.0	
		Z	8.87	84.13	24.29		65.0	
10256- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	12.14	85.70	21.65	3.98	65.0	± 9.6 %
		Y	2.39	63.29	9.34		65.0	
		Z	6.53	76.31	17.14		65.0	
10257- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	Х	10.52	83.12	20.65	3.98	65.0	± 9.6 %
		Y	2.37	62.97	9.07		65.0	
		Z	5.84	74.42	16.27		65.0	
10258- CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	17.57	94.83	24.99	3.98	65.0	± 9.6 %
		Y	2.09	64.17	10.28		65.0	
200		Z	7.18	81.13	19.58		65.0	
10259- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	9.35	84.00	23.60	3.98	65.0	± 9.6 %
		Y	4.27	71.26	16.49		65.0	
		Z	7.23	79.98	21.55		65.0	may v
10260- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	Х	9.09	83.14	23.28	3.98	65.0	± 9.6 %
		Υ	4.29	70.99	16.36		65.0	
	The second of th	Z	7.09	79.30	21.28		65.0	
10261- CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	20.60	100.63	29.19	3.98	65.0	± 9.6 %
		Y	5.19	77.02	19.19		65.0	
		Z	12.69	92.56	26.23		65.0	
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	Х	9.60	84.85	24.96	3.98	65.0	± 9.6 %
		Y	5.25	74.71	19.54		65.0	
	be a selection of the season o	Z	7.71	81.39	23.31		65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	Х	8.38	80.94	23.12	3.98	65.0	± 9.6 %
		Y	4.79	72.02	17.98		65.0	
		Z	6.88	78.03	21.60		65.0	
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	Х	17.71	97.89	28.89	3.98	65.0	± 9.6 %
		Y	6.08	79.47	21.14		65.0	
		Z	12.04	91.62	26.61		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	Х	8.16	79.68	22.98	3.98	65.0	± 9.6 %
		Y	5.16	72.34	18.91		65.0	
		Z	6.89	77.18	21.74		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	8.64	80.68	23.73	3.98	65.0	± 9.6 %
		Υ	5.62	73.72	19.91		65.0	
		Z	7.37	78.32	22.56		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	Х	12.08	88.69	25.86	3.98	65.0	± 9.6 %
		Υ	6.04	77.32	20.69		65.0	
		Z	9.51	85.13	24.46		65.0	
10268- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	8.37	78.32	22.79	3.98	65.0	± 9.6 %
		Υ	5.85	72.63	19.64	1 1	65.0	
		Z	7.33	76.42	21.84		65.0	
10269- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	Х	8.22	77,64	22.57	3.98	65.0	± 9.6 %
	12	Υ	5.86	72.30	19.53		65.0	
		Ζ	7.25	75.87	21.65		65.0	
10270- CAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	9.48	82.12	23.59	3.98	65.0	± 9.6 %
		Υ	5.97	74.85	19.97		65.0	

10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.89	69.10	17.08	0.00	150.0	± 9.6 %
		Y	2.36	67.08	14.79		150.0	
		Z	2.65	67.73	15.81		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	2.55	77.12	20.61	0.00	150.0	± 9.6 %
		Y	1.45	68.81	15.34		150.0	
		Z	1.79	70.64	17.05		150.0	
10277- CAA	PHS (QPSK)	X	3.19	64.63	9.78	9.03	50.0	± 9.6 %
		Y	2.16	60.77	6.33		50.0	
		Z	2.41	62.57	7.97		50.0	
10278- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	15.37	89.83	22.98	9.03	50.0	± 9.6 %
		Y	3.14	64.77	10.49		50.0	
410-12		Z	7.87	79.67	18.58	7	50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	15.50	89.93	23.07	9.03	50.0	± 9.6 %
		Y	3.19	64.91	10.61		50.0	
	Carrier Control of the Control	Z	8.01	79.89	18.72		50.0	1.75
10290- AAB	CDMA2000, RC1, SO55, Full Rate	X	22.74	109.60	28.28	0.00	150.0	± 9.6 %
		Y	0.62	61.86	7.86	· (150.0	
	L.61.4	Z	1.95	73.86	15.85		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	Х	36.45	122.76	31.77	0.00	150.0	± 9.6 %
		Y	0.36	60.12	6.34		150.0	
	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	Z	1.11	70.86	14.62		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	Х	100.00	143.86	37.68	0.00	150.0	± 9.6 %
		Y	0.42	62.15	7.79		150.0	
		Z	3.92	88.86	21.59		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	Х	100.00	148.39	39.82	0.00	150.0	± 9.6 %
		Y	0.93	69.44	11.66		150.0	
		Z	100.00	135.31	33.82		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	Х	21.42	100.72	29.80	9.03	50.0	± 9.6 %
		Y	9.48	80.82	19.81		50.0	
		Z	22.46	101.08	29.15		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.57	75.06	19.63	0.00	150.0	± 9.6 %
		Y	2.49	70.15	16.72		150.0	
		Z	2.87	71.33	17.58		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	3.98	83.19	21.31	0.00	150.0	± 9.6 %
		Υ	0.87	63.05	9.53		150.0	
		Z	1.75	70.46	15.13		150.0	K
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	Х	15.24	95.03	23.97	0.00	150.0	± 9.6 %
		Υ	1.24	62.42	8.46		150.0	
10077	120220ND 5 4 4 1 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	Z	4.10	75.50	16.04		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	Х	3.48	73.00	15.57	0.00	150.0	± 9.6 %
		Y	1.02	60.32	6.60		150.0	
		Z	2.01	65.94	11.18	1 7.7	150.0	
10301- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	Х	5.29	67.78	18.83	4.17	50.0	± 9.6 %
		Y	4.52	66.44	17.46		50.0	
		Z	4.95	66.95	18.06		50.0	
10302- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.66	67.86	19.26	4.96	50.0	± 9.6 %
		Υ	4.91	66.53	17.88		50.0	
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10303- AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.43	67.67	19.19	4.96	50.0	± 9.6 %
	, , , , , , , , , , , , , , , , , , , ,	Y	4.82	67.17	18.26		50.0	
		Z	5.13	66.95	18.46		50.0	155
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	Х	5.21	67.43	18.63	4.17	50.0	± 9.6 %
		Y	4.50	66.16	17.24		50.0	
		Z	4.92	66.79	17.94		50.0	
10305- AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	Х	5.62	73.06	22.56	6.02	35.0	± 9.6 %
		Y	4.92	71.14	19.97		35.0	
		Z	5.01	70.89	20.92		35.0	
10306- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	Х	5.46	70.01	21.21	6.02	35.0	± 9.6 %
		Y	4.83	68.81	19.35		35.0	
		Z	5.06	68.79	20.10		35.0	
10307- AAA		X	5.45	70.58	21.36	6.02	35.0	± 9.6 %
		Y	4.77	69.06	19.33		35.0	
		Z	4.99	69.08	20.12		35.0	
10308- AAA		X	5.48	71.02	21.61	6.02	35.0	± 9.6 %
		Υ	4.79	69.43	19.54		35.0	
11,51		Z	5.00	69.44	20.33		35.0	Trnc.
10309- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Х	5.54	70.29	21.38	6.02	35.0	± 9.6 %
		Y	4.84	68.85	19.43		35.0	
		Z	5.10	68.96	20.23		35.0	
10310- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	Х	5.44	70.24	21.26	6.02	35.0	± 9.6 %
		Y	4.82	69.00	19.40		35.0	
		Z	5.03	68.95	20.12		35.0	
10311- AAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	Х	3.96	73.78	18.94	0.00	150.0	± 9.6 %
		Y	2.85	69.23	16.35		150.0	
		Z	3.25	70.46	17.13		150.0	
10313- AAA	iDEN 1:3	Х	41.02	105.42	26.86	6.99	70.0	± 9.6 %
		Y	2.69	68.61	13.47		70.0	
		Z	16.02	93.57	23.56		70.0	
10314- AAA	iDEN 1:6	X	100.00	129.02	36.10	10.00	30.0	± 9.6 %
		Υ	4.45	76.08	19.04		30.0	
		Z	45.38	117.87	33.58		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.29	68.31	18.77	0.17	150.0	± 9.6 %
		Υ	0.97	64.25	15.22		150.0	
		Z	1.16	65.45	16.41		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	Х	4.71	67.50	17.03	0.17	150.0	± 9.6 %
		Y	4.24	66.78	16.13		150.0	
		Z	4.53	67.13	16.54		150.0	-
10317- AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.71	67.50	17.03	0.17	150.0	± 9.6 %
		Y	4.24	66.78	16.13		150.0	
		Z	4.53	67.13	16.54		150.0	
10400- AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	Х	4.80	67.78	16.96	0.00	150.0	± 9.6 %
		Υ	4.30	67.06	16.16		150.0	
		Z	4.60	67.35	16.46		150.0	5-2-5-2
10401- AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	Х	5.47	67.75	16.97	0.00	150.0	± 9.6 %
1010							4 4 4 4 1 4	
7010		Y	4.96	66.77	16.15		150.0 150.0	

10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.73	68.06	16.97	0.00	150.0	± 9.6 %
		Y	5.32	67.38	16.37		150.0	
		Z	5.56	67.68	16.57		150.0	
10403- AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	22.74	109.60	28.28	0.00	115.0	± 9.6 %
		Y	0.62	61.86	7.86		115.0	
		Z	1.95	73.86	15.85		115.0	
10404- AAB	CDMA2000 (1xEV-DO, Rev. A)	X	22.74	109.60	28.28	0.00	115.0	± 9.6 %
		Υ	0.62	61.86	7.86		115.0	
		Z	1.95	73.86	15.85		115.0	
10406- AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	125.60	32.43	0.00	100.0	± 9.6 %
		Y	100.00	114.81	26.31		100.0	A
		Z	100.00	116.76	27.87		100.0	
10410- LTE-TDD (SC-FDM AAD QPSK, UL Subfram Subframe Conf=4)	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	Х	100.00	127.36	33.31	3.23	80.0	± 9.6 %
		Y	11.38	91.76	21.18		80.0	
		Z	100.00	126.26	32.23		80.0	
10415- AAA	(D000, 1	Х	1.13	66.51	17.77	0.00	150.0	± 9.6 %
		Y	0.90	63.42	14.70		150.0	
		Z	1.05	64.25	15.64		150.0	
10416- AAA	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 99pc duty cycle)	Х	4.63	67.43	16.91	0.00	150.0	± 9.6 %
		Y	4.21	66.85	16.15		150.0	
		Z	4.47	67.06	16.42		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	Х	4.63	67.43	16.91	0.00	150.0	± 9.6 %
		Y	4.21	66.85	16.15		150.0	
		Z	4.47	67.06	16.42		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	Х	4.63	67.64	16.95	0.00	150.0	± 9.6 %
		Y	4.20	67.08	16.22		150.0	
		Z	4.47	67.27	16.47		150.0	
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.65	67.56	16.94	0.00	150.0	± 9.6 %
		Y	4.22	67.00	16.20		150.0	
		Z	4.48	67.20	16.46		150.0	7
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	Х	4.76	67.51	16.92	0.00	150.0	± 9.6 %
		Υ	4.32	66.96	16.20		150.0	
1010-		Z	4.59	67.16	16.45	4	150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.93	67.84	17.03	0.00	150.0	± 9.6 %
		Υ	4.44	67.21	16.29		150.0	
10.10.	LEES AND ALL MARKET	Z	4.73	67.44	16.55		150.0	
10424- AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	Х	4.85	67.81	17.02	0.00	150.0	± 9.6 %
		Υ	4.37	67.16	16.27		150.0	
10105	IEEE 000 44 117 5	Z	4.66	67.41	16.53		150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.43	67.95	17.08	0.00	150.0	± 9.6 %
		Y	5.00	67.29	16.44		150.0	
10426	IEEE 000 44 - /UT O	Z	5.25	67.54	16.64		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.44	67.98	17.09	0.00	150.0	± 9.6 %
		Υ	5.02	67.36	16.48		150.0	
		Z	5.26	67.59	16.66		150.0	

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10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	Х	5.45	67.95	17.07	0.00	150.0	± 9.6 %
		Υ	4.98	67.14	16.37		150.0	
		Z	5.26	67.50	16.61		150.0	1000
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.73	73.47	19.82	0.00	150.0	± 9.6 %
AAD		Υ	4.56	74.63	19.17		150.0	
		Z	4.43	72.70	18.91		150.0	
10431- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.37	68.31	17.10	0.00	150.0	± 9.6 %
AAD		Υ	3.81	67.51	15.99		150.0	
_		Z	4.14	67.77	16.44		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.64	67.98	17.04	0.00	150.0	± 9.6 %
	() () () () () () () () () ()	Y	4.14	67.30	16.19		150.0	
		Z	4.43	67.53	16.50		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	Х	4.87	67.84	17.04	0.00	150.0	± 9.6 %
		Y	4.39	67.20	16.29		150.0	
		Z	4.68	67.44	16.55		150.0	
10434- AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	5.07	75.14	20.13	0.00	150.0	± 9.6 %
		Υ	4.79	75.67	18.89		150.0	
		Z	4.66	74.02	18.99		150.0	
10435- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	127.12	33.20	3.23	80.0	± 9.6 %
		Y	9.95	90.00	20.62		80.0	
		Z	100.00	126.00	32.12		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	Х	3.77	69.03	16.82	0.00	150.0	± 9.6 %
		Υ	3.02	67.13	14.58		150.0	
		Z	3.45	68.00	15.73		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.21	68.12	16.99	0.00	150.0	± 9.6 %
		Υ	3.69	67.31	15.87		150.0	
		Z	3.99	67.57	16.32		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	Х	4.45	67.85	16.98	0.00	150.0	± 9.6 %
7010	Supring 1170/	Y	3.99	67.14	16.10		150.0	
		Z	4.26	67.38	16.42		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.63	67.66	16.93	0.00	150.0	± 9.6 %
7010	Suppling 1170)	Y	4.20	66.99	16.15		150.0	
		Z	4.46	67.24	16.43		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.74	69.59	16.62	0.00	150.0	± 9.6 %
		Υ	2.77	66.56	13.57		150.0	
		Z	3.32	68.12	15.25		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	Х	6.29	68.37	17.12	0.00	150.0	± 9.6 %
		Y	5.92	67.73	16.56		150.0	
		Z	6.16	68.12	16.80		150.0	
10457- AAA	UMTS-FDD (DC-HSDPA)	X	3.86	66.03	16.64	0.00	150.0	± 9.6 %
		Υ	3.59	65.64	15.90		150.0	
		Z	3.77	65.74	16.14		150.0	
10458- AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	Х	4.71	74.59	19.62	0.00	150.0	± 9.6 %
		Υ	3.63	71.61	16.38		150.0	
		Z	4.23	73.04	18.15		150.0	
10459- AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	5.32	69.67	19.03	0.00	150.0	± 9.6 %
		Y	4.95	70.42	18.28		150.0	
		1	4.55	10.72	10.20		150.0	

10460- AAA	UMTS-FDD (WCDMA, AMR)	Х	3.22	94.80	28.52	0.00	150.0	± 9.6 %
		Y	0.87	70.99	16.70		150.0	
		Z	1.14	73.38	19.07		150.0	
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	137.24	37.78	3.29	80.0	± 9.6 %
		Y	27.76	104.85	25.39		80.0	
		Z	100.00	135.72	36.50		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	115.69	27.66	3.23	80.0	± 9.6 %
		Y	0.81	60.00	7.10		80.0	7
		Z	100.00	109.18	24.14		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	111.01	25.46	3.23	80.0	± 9.6 %
		Y	0.83	60.00	6.54		80.0	
		Z	100.00	103.49	21.52		80.0	
10464- LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	135.32	36.70	3.23	80.0	± 9.6 %
		Y	6.51	85.78	19.53		80.0	
	A CONTRACT OF THE SECOND OF	Z	100.00	133.26	35.17		80.0	
10465- AAA		X	100.00	114.90	27.28	3.23	80.0	± 9.6 %
		Y	0.81	60.00	7.04		80.0	
	Park the second	Z	100.00	108.29	23.73		80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.24	25.11	3.23	80.0	± 9.6 %
		Y	0.83	60.00	6.50		80.0	
		Z	100.00	102.72	21.18		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	135.65	36.85	3.23	80.0	± 9.6 %
		Υ	8.40	88.81	20.44		80.0	
		Z	100.00	133.64	35.34		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	115.17	27.40	3.23	80.0	± 9.6 %
		Y	0.80	60.00	7.06		80.0	
		Z	100.00	108.60	23.86		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.28	25.12	3.23	80.0	± 9.6 %
		Υ	0.83	60.00	6.50		80.0	
		Z	100.00	102.76	21.19		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	135.73	36.87	3.23	80.0	± 9.6 %
		Υ	8.46	88.91	20.45		80.0	
		Z	100.00	133.70	35.35		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	115.11	27.37	3.23	80.0	± 9.6 %
		Υ	0.80	60.00	7.05		80.0	
		Z	100.00	108.51	23.82		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.22	25.09	3.23	80.0	± 9.6 %
		Υ	0.83	60.00	6.48		80.0	
		Z	100.00	102.65	21.14		80.0	
10473- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	135.69	36.85	3.23	80.0	± 9.6 %
		Υ	8.31	88.69	20.39	1 4 7	80.0	
		Z	100.00	133.67	35.34		80.0	
10474- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	115.13	27.37	3.23	80.0	± 9.6 %
		Υ	0.80	60.00	7.05		80.0	
		Z	100.00	108.51	23.82		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.23	25.09	3.23	80.0	± 9.6 %
				110.23 60.00	25.09 6.49	3.23	80.0	± 9.6 %

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10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	114.89	27.26	3.23	80.0	± 9.6 %
		Y	0.80	60.00	7.03		80.0	
		Z	100.00	108.23	23.69		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.15	25.05	3.23	80.0	± 9.6 %
		Υ	0.83	60.00	6.47		80.0	
		Z	100.00	102.57	21.10		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	130.53	36.28	3.23	80.0	± 9.6 %
		Υ	18.93	98.08	24.66		80.0	
. F F		Z	100.00	128.53	34.78		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	119.15	30.92	3.23	80.0	± 9.6 %
		Y	2.63	68.46	12.82		80.0	
		Z	100.00	115.76	28.71		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	117.09	29.88	3.23	80.0	± 9.6 %
		Υ	1.81	64.24	10.62		80.0	
		Z	100.00	113.26	27.47		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	100.00	124.02	32.68	2.23	80.0	± 9.6 %
		Y	1.33	62.80	10.48		80.0	2-2-
		Z	11.32	90.77	23.06		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	118.33	30.69	2.23	80.0	± 9.6 %
		Υ	1.45	60.89	8.88		80.0	
		Z	33.72	99.77	24.58		80.0	
	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	100.00	117.97	30.58	2.23	80.0	± 9.6 %
		Υ	1.44	60.60	8.71		80.0	
		Z	19.16	92.36	22.59		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	38.56	112.87	31.42	2.23	80.0	± 9.6 %
		Y	2.39	69.74	15.25		80.0	
		Z	8.50	88.48	23.80		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	9.54	86.30	23.09	2.23	80.0	± 9.6 %
		Υ	2.00	64.32	12.02		80.0	
		Z	5.15	76.91	19.01		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	8.55	84.23	22.37	2.23	80.0	± 9.6 %
		Υ	2.00	63.98	11.82		80.0	
		Z	4.88	75.76	18.55		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.84	91.44	26.20	2.23	80.0	± 9.6 %
		Υ	3.04	71.59	17.60		80.0	
		Z	5.59	80.65	22.14		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.78	77.79	21.43	2.23	80.0	± 9.6 %
6.40		Υ	3.01	68.33	16.04		80.0	
		Z	4.39	73.55	19.28		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.67	76.87	21.07	2.23	80.0	± 9.6 %
		Υ	3.08	68.14	15.97		80.0	
		Z	4.41	73.06	19.08		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	7.32	82.36	23.22	2.23	80.0	± 9.6 %
		Υ	3.28	70.20	17.41		80.0	
V. S. L. S. V.	Francisco - Albanda - I	Z	4.97	76.22	20.62		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.31	74.16	20.26	2.23	80.0	± 9.6 %
		Υ	3.38	67.82	16.45		80.0	
		Z	4.40	71.34	18.72		80.0	

10493- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.30	73.69	20.07	2.23	80.0	± 9.6 %
		Y	3.43	67.68	16.39		80.0	
		Z	4.43	71.06	18.60		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.52	86.81	24.57	2.23	80.0	± 9.6 %
		Y	3.53	71.47	17.85		80.0	
		Z	5.74	78.70	21.42		80.0	
10495- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.47	74.91	20.60	2.23	80.0	± 9.6 %
		Y	3.41	68.11	16.71		80.0	
		Z	4.46	71.77	18.96		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.39	74.05	20.27	2.23	80.0	± 9.6 %
		Y	3.49	67.92	16.66		80.0	
	A La Calabara de Artico	Z	4.48	71.27	18.77		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	119.13	29.98	2.23	80.0	± 9.6 %
		Y	0.97	60.00	7.52		80.0	
		Z	6.39	80.96	18.49		80.0	
10498- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.50	78.03	17.31	2.23	80.0	± 9.6 %
		Y	1.16	60.00	6.40		80.0	
		Z	1.70	62.78	10.09		80.0	
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	4.96	74.41	15.87	2.23	80.0	± 9.6 %
		Y	1.18	60.00	6.24		80.0	
		Z	1.56	61.72	9.39		80.0	
10500- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	16.92	99.40	28.16	2.23	80.0	± 9.6 %
		Y	2.69	70.74	16.30		80.0	
		Z	6.56	84.02	22.76		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	7.28	81.96	22.15	2.23	80.0	± 9.6 %
		Υ	2.48	66.42	13.80		80.0	
		Z	4.80	75.55	19.11		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	7.13	81.15	21.79	2.23	80.0	± 9.6 %
		Υ	2.49	66.14	13.60		80.0	
		Z	4.79	75.10	18.85		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	10.53	90.94	26.02	2.23	80.0	± 9.6 %
		Υ	2.99	71.33	17.47		80.0	
		Z	5.48	80.32	22.00		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.73	77.63	21.35	2.23	80.0	± 9.6 %
		Υ	2.99	68.19	15.96		80.0	
	177 700 400 700	Z	4.36	73.41	19.21		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	5.62	76.72	21.00	2.23	80.0	± 9.6 %
		Υ	3.06	68.02	15.89		80.0	
10500	LTE TOP (0.0 STATE OF TOP OF T	Z	4.38	72.94	19.01		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	9.35	86.49	24.45	2.23	80.0	± 9.6 %
		Υ	3.49	71.29	17.76		80.0	
	LTE TOD (OO EDIN 1000) == 15	Z	5.67	78.49	21.33		0.08	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.44	74.83	20.55	2.23	80.0	± 9.6 %
		-						
		Y	3.40	68.03	16.66		80.0	